LEE'S SUMMIT JOINT OPERATIONS FACILITY

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086



PACKAGE 2: CONSTRUCTION SET

NOVEMBER 1, 2024

HOEFER WELKER

HW PROJECT NO: 138191

OWNER
CITY OF LEE'S SUMMIT
220 SE GREEN
LEE'S SUMMIT, MO 64063
P: 816.969.1000

ARCHITECT
HOEFER WELKER
4622 PENNSYLVANIA AVENUE, SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700

CONSTRUCTION MANAGER
TITAN BUILT
8207 MELROSE DRIVE, SUITE 200
LENEXA, KANSAS 66214
P: 913.782.6700

MEPT ENGINEER
HOEFER WELKER
4622 PENNSYLVANIA AVENUE, SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700

FIRE PROTECTION ENGINEER
SMITH & BOUCHER
25618 W 103RD STREET
OLATHE, KS 66061
P: 913.345.2127

STRUCTURAL ENGINEER
J&S STRUCTURAL ENGINEERS, PA
6640 WEST 143RD STREET #250
OVERLAND PARK, KS 66223
P: 913.549.4701

CIVIL ENGINEER
BHC
7101 COLLEGE BLVD SUITE 400
OVERALND PARK, KANSAS 66210
P: 913.663.1900

LANDSCAPE ARCHITECT
LANDWORKS STUDIO
102 S. CHERRY STREET, 2ND FLOOR
OLATHE, KS 66061
P: 913.780.6707

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HOEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com

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LEE'S SUMMIT, MISSOURI 64086

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STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016011211
ARCHITECT

PROFESSIONAL SEAL

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DRAWING INDEX

ABBREVIATIONS

A/C	AIR CONDITIONING
A/V	AUDIO VISUAL
ACOUST	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
AD	AREA DRAIN
ADD	ADDENDUM
ADJ	ADJUSTABLE / ADJACENT
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ARCH PRECAST CONCRETE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
ATTEN	ATTENUATION
AUTO	AUTOMATIC
AVG	AVERAGE
---	---
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCHMARK / BEAM
BO	BOTTOM OF
BOC	BACK OF CURB
BOT	BOTTOM
BR	RESILIENT BASE
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMT	BASEMENT
BT	TILE BASE
BTWN	BETWEEN
BV	INTEGRAL COVED BASE
BVL	BEVELED
BW	BOTH WAYS
C	---
CA	ACOUSTICAL CEILING TILE
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TV
CE	PAINTED GYP CEILING - EPOXY
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR / CLEARANCE
CM	CENTIMETER
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MANSONRY UNIT (S)
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCT / CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CP	CONCRETE PIPE
CP	PAINTED GYP CEILING
CS	COUNTERSINK
CSMT	CASEMENT
CTR	COUNTER
CU	CUBIC
CW	COLD WATER
---	---
DBL	DOUBLE
DEMO	DEMOLISH / DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DMT	DEMOUNTABLE
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
---	---
E	EAST
EA	EACH
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
EP	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EST	ESTIMATE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION / EXPANDED
EXT	EXTERIOR
---	---
FA	FIRE ALARM
FAB	FABRICATE
FB	FACE BRICK
FBO	FURNISHED BY OWNER
FC	CARPET
FCT	VINYL COMPOSITION TILE
FD	FLOOR DRAIN
FDN	FOUNDATION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER AND BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF&E	FIXTURES / FURNITURE / EQUIPMENT
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH / FINISHED
FIXT	FIXTURE

ABBREVIATIONS

FLG	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOG	FACE OF GYPSUM BOARD / WALL
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FR	FIRE RESISTANT
FRM	FRAME (D), (ING)
FS	FLOOR SINK
FT	FLOOR TILE
FT	FOOT / FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FV	FIELD VERIFY
FVC	FIRE VALVE CABINET
FVT	VINYL TILE
FX	FINISHED CONCRETE
FZ	TERRAZZO
---	---
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINF CONC
GL	GLASS / GLAZING
GOVT	GOVERNMENT
GPM	GALLON PER MINUTE
GYP	GYPSUM
---	---
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HK	HOOK
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING VENTING AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
---	---
ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE (D), (ING)
INFO	INFORMATION
INST	INSTALL / INSTALLATION
INSUL	INSULATE / INSULATION
INT	INTERIOR
INV	INVERT
---	---
JAN	JANITOR
JB	JUNCTION BOX
JC	JANITOR CLOSET
JST	JOIST
JT	JOINT
---	---
KIT	KITCHEN
KP	KICK PLATE
---	---
L	LONG / LENGTH
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LH	LEFT HAND
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT
LRG	LARGE
LT(G)	LIGHT(ING)
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
---	---
M	METER (S)
MAS	MASONRY
MAX	MAXIMUM
MBR	MEMBER
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	PLASTIC LAMINATE MILLWORK
MN	NATURAL STONE COUNTERTOPS
MO	MASONRY OPENING
MOD	MODULAR
MS	SOLID SURFACE COUNTERTOPS
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
---	---
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
---	---
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD / OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
---	---
PA	PUBLIC ACCESS
PB	PANEL BOARD
PC	PRECAST CONCRETE
PERF	PERFORATE (D)
PERM	PERMANENT

ABBREVIATIONS

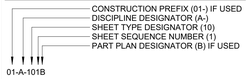
PERP	PERPENDICULAR
PL	PLATE / PROPERTY LINE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POLY	POLYETHYLENE
PREFAB	PREFABRICATE (D)
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARE (D)
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT; PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
---	---
QTY	QUANTITY
---	---
R	RISER / RADIUS / REVERSED
R/W	RIGHT OF WAY
RA	RETURN AIR
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE / REFER TO
REC (D)	RECEIVE (D)
REF	REFRIGERATOR
REINF	REINFORCE (D), (ING)
REQD	REQUIRED
REQMT	REQUIREMENT
REV	REVISED / REVISION
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
---	---
S	SOUTH
SA	ACOUSTICAL WALL PANEL
SAN	SANITARY SEWER
SC	SOLID CORE
SCH	SCHEDULE
SCN	SCREEN
SECT	SECTION
SF	SQUARE FOOT (SQ FT)
SHM	SECURITY HOLLOW METAL
SHT	SHEET
SIM	SIMILAR
SOF	SPRAY-ON FIREPROOFING
SOG	SLAB ON GRADE
SP	TOILET PARTITION
SP HD	SPRINKLER HEAD
SPEC	SPECIFICATION (S)
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SS	SILLS
STC	SOUND TRANSM COEFFICIENT
STD	STANDARD
STG	SEATING
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUBFLR	SUBFLOOR
SUSP	SUSPENDED
SW	WINDOW TREATMENTS
SWGR	SWITCH GEAR
SY	SQUARE YARD (SQ YD)
SYM	SYMMETRICAL
SYS	SYSTEM
---	---
T	TREAD
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TEMP	TEMPORARY / TEMPERED
THK	THICK (NESS)
THRU	THROUGH
TKBD	TACKBOARD
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOD	TOP OF DECK
TOM	TOP OF MANSONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANSF	TRANSFORMER
TRANSM	TRANSMISSION
TV	TELEVISION
TYP	TYPICAL
---	---
UH	UNIT HEATER
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
---	---
VB	VAPOR BARRIER (VPR BR)
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
---	---
W	WEST, WIDTH, WIDE, WATER
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WE	WALL PAINT - EPOXY
WH	WALL HYDRANT
WNDW	WINDOW
WP	WALL PAINT
WR	WATER RESISTENT
WT	WALL TILE, WEIGHT
WV	WALL COVERING
---	---
YD	YARD
---	---
&	AND
@	AT

SYMBOLS:

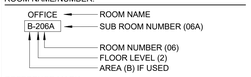
DISCIPLINE DESIGNATORS:

G- (GENERAL)	AF (FURNITURE / EQUIPMENT)
C- (CIVIL)	AG (GRAPHICS)
L- (LANDSCAPE)	QF (EQUIPMENT FOOD SERVICE)
S- (STRUCTURAL)	QH (EQUIPMENT HOSPITAL)
AS (ARCHITECTURAL SITE)	P- (PLUMBING)
XD (DEMOLITION)	M- (MECHANICAL)
A- (ARCHITECTURAL)	E- (ELECTRICAL)
AC (ARCHITECTURAL CEILINGS)	T- (TECHNOLOGY)
AI (ARCHITECTURAL FINISHES)	

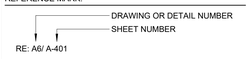
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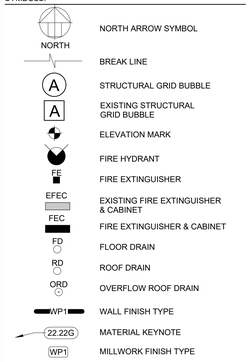
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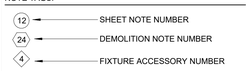
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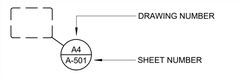
SYMBOLS:



NOTE TAGS:



DETAILS:



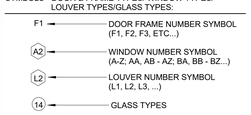
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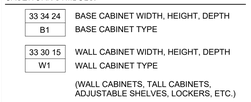
WALL SYMBOLS:



SYMBOLS - DOOR & FRAME TYPES/ WINDOW TYPES/ LOUVER TYPES/GLASS TYPES:



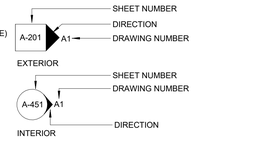
CASEWORK SYMBOLS:



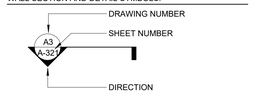
WALL TYPE INDICATOR:

RE: WALL TYPE LEGEND ON G-301

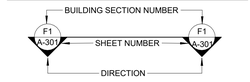
ELEVATION SYMBOLS:



WALL SECTION AND DETAIL SYMBOLS:



BUILDING SECTIONS:



REVISION MARK/ CLOUD:



GENERAL INFORMATION NOTES:

1. ALL CONTRACTORS AND THEIR SUPERVISORY PERSONNEL SHALL REVIEW THE GENERAL ANDSUPPLEMENTARY CONDITIONS TO THE CONTRACT.
2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS AND ORDINANCES.
3. CONTRACTOR SHALL OBTAIN ALL REQUIRED BUILDING AND OCCUPANCY PERMITS.
4. CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK.
5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS.
6. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
7. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. COMMENCING WITH INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
8. DO NOT SCALE DRAWINGS: FOLLOW WRITTEN DIMENSIONS AND NOTES. CONTACT ARCHITECT FOR CLARIFICATIONS, IF REQUIRED.
9. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
10. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE.
11. NOTE: ALL WALL THICKNESSES ARE ACTUAL DIMENSIONS.
12. "TYPICAL" AS USED IN THESE DOCUMENTS, SHALL MEAN THAT THE CONDITION OR DIMENSION IS REPRESENTATIVE OF, OR THE SAME, FOR SIMILAR CONDITIONS THROUGHOUT.
13. IF THERE IS A DISCREPANCY BETWEEN SMALL SCALE AND LARGE SCALE DRAWINGS, (PLAN, SECTION, & DETAIL DRAWINGS, ETC.) - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
14. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
15. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK.
16. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. IN THESE INSTANCES: NO CHANGE ORDERS OR EXTENSIONS OF TIME WILL BE ALLOWED OR ACCEPTED FOR PROCEEDING WITH THE WORK WITHOUT THE ARCHITECT 'S WRITTEN DIRECTION AND APPROVAL. ALSO - CONTRACTOR MUST REPAIR AND/OR REPLACE ANY UNAUTHORIZED WORK, AS INDICATED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
17. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH AN APPROVED NONMETAL ISOLATION MATERIAL.
18. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, ETC. - SHALL BE SEALED, CAULKED, FLASHED OR WEATHER-STRIPPED AS REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS & TO ELIMINATE AIR LEAKAGE AND WATER ENTRY.
19. PROVIDE SEALANT AND/OR CAULKING BETWEEN DISSIMILAR ADJOINING INTERIOR MATERIALS. (I.E. WINDOW SILLS TO GYP. BD., ACT CEILINGS TO MASONRY WALLS, ETC.)
20. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO EDGE OF DOOR FRAME, ALWAYS ALLOWING A MINIMUM OF 16" FROM THE PULL SIDE OF THE DOOR TO THE INTERSECTING WALL.
21. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND THEIR SERVICE CONNECTIONS WITH THE PROPER UTILITY COMPANY.
22. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FINAL SIZE AND DEPTH OF THE ELEVATOR PIT, SHAFT, RAIL SUPPORT, HOIST SUPPORT, OVERRUN AND MISC. ELEVATOR REQUIREMENTS WITH THE SELECTED ELEVATOR MANUFACTURER/ SUPPLIER.
23. CONTRACTOR SHALL COORDINATE SIZE, LOCATIONS AND NUMBER OF ALL ROOF OPENINGS AND ROOF ACCESSORIES WITH ALL OTHER TRADES. REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
24. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER/SUPPLIER, AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
25. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE HELD AT 5/8 INCH BELOW STRUCTURE, UNLESS DETAILED OR NOTED OTHERWISE.
26. AT ALL TELECOMMUNICATION ROOMS: PROVIDE 3/4" X 8'-0" HIGH FIRE-RETARDANT-TREATED WOOD SHEATHING OR PROVIDE PLYWOOD OVER NON-COMBUSTIBLE SHEATHING; BOTTOM TO BE LOCATED AT 4" A.F.F. VERIFY LENGTHS AND LOCATIONS WITH ELECTRICAL DRAWINGS.
27. GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 1'-6" OF THE FLOOR, AND WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF A DOOR, ETC., SHALL BE SAFETY GLAZING AS APPROVED FOR IMPACT BY APPLICABLE BUILDING CODES, AND SHALL BE LABELED AS SUCH.
28. ALL CEILING HEIGHTS AS SHOWN ON PLANS AND DETAILS ARE FROM SLAB OR TILE FLOOR (FINISHED FLOOR) TO FINISH CEILING.
29. PROVIDE INDEPENDENT FRAMING & ATTACHMENTS TO THE STRUCTURE – ADEQUATE TO SUPPORT THE CEILING SYSTEM, LIGHT FIXTURES, DUCTS, DIFFUSERS, SPRINKLER PIPING AND BUS DUCTS.
30. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES.
31. CONTRACTOR TO INSTALL WOOD BLOCKING AND PLYWOOD AS REQUIRED FOR THE MOUNTING OF ALL TOILET ACCESSORIES, MILLWORK/ CASEWORK, AV EQUIPMENT, AND MEP ITEMS ETC.
32. RE: SPECIFICATIONS FOR ALL REQUIRED TESTING AND INSPECTIONS.
33. ANY/ ALL PROPRIETARY PRODUCTS DESCRIBED AND/OR DRAWN IN THE DOCUMENTS (BUT NOT SPECIFIED) ARE TO MEET THE MANUFACTURER 'S STANDARD CRITERIA WHICH IS NOT LIMITED TO THE FOLLOWING: PERFORMANCE REQUIREMENTS, QUALITY ASSURANCE REQUIREMENTS, APPLICABLE CODES AND INDUSTRY STANDARDS, FABRICATION, ASSEMBLY, HANDLING, DELIVERY, STORAGE, INSTALLATION, OPERATION, ADJUSTMENTS, ETC. PROVIDE THE MANUFACTURER 'S STANDARD WARRANTY AND STANDARD FINISH WARRANTY. PROVIDE PRODUCT DATA, SHOP DRAWINGS, SAMPLES, AND MAINTENANCE DATA AS REQUIRED. REFER TO DIVISION 01 SPEC. SECTIONS WHICH ALSO APPLY - SUCH AS SUBSTITUTION PROCEDURES, SUBMITTAL PROCEDURES, QUALITY REQUIREMENTS, REFERENCES, EXECUTION, AND CLOSEOUT PROCEDURES. NOTE: ANY SUBSTITUTIONS MUST MEET THE DESIGN INTENT, AS WELL AS THE CRITERIA DESCRIBED ABOVE.

HOEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

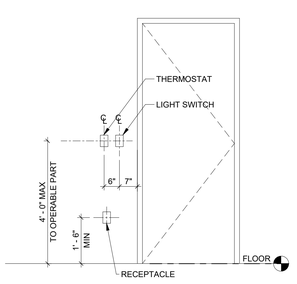
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CHRISTOPHER KRUMREI
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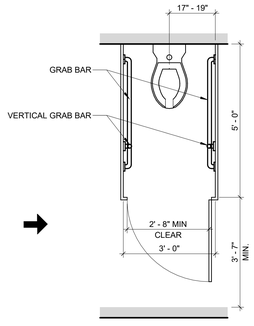
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G-011

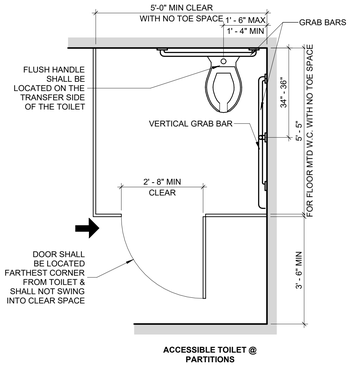
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

GENERAL INFORMATION





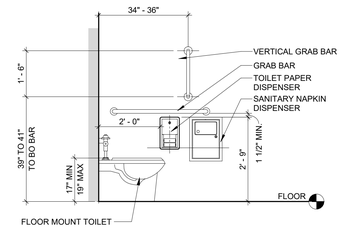
AMBULATORY ACCESSIBLE TOILET



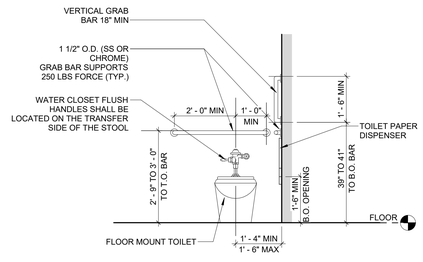
ACCESSIBLE TOILET @ PARTITIONS

H8 SWITCH @ DOOR
1/2" = 1'-0"

GRAB BARS:
1 1/2" O.D. (SS)
SUPPORTS MIN 500 LBS FORCE (TYP)

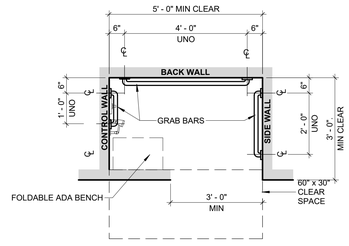


SECTION

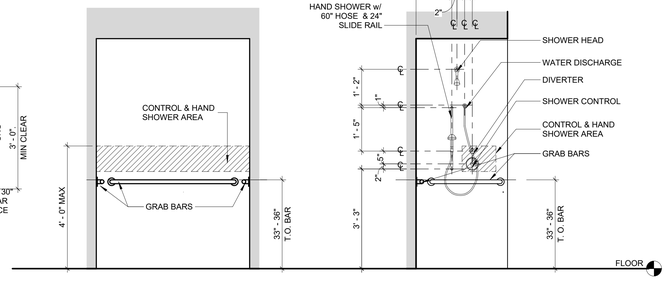


ELEVATION

H1 WATER CLOSET & GRAB BARS
1/2" = 1'-0"



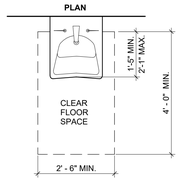
PLAN

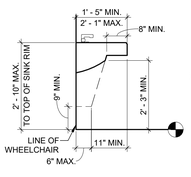


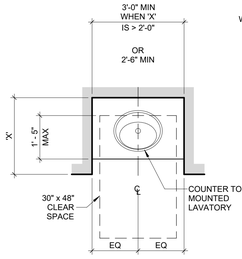
BACK WALL ELEVATION

CONTROL WALL ELEVATION

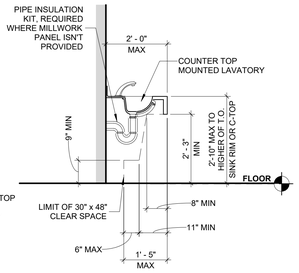
F1 ALTERNATE ROLL-IN SHOWER
1/2" = 1'-0"



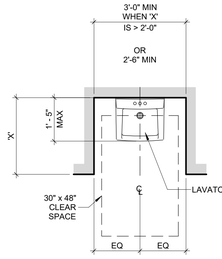




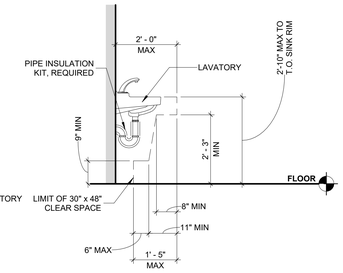
IN-COUNTER SINK - PLAN



IN-COUNTER SINK - SECTION



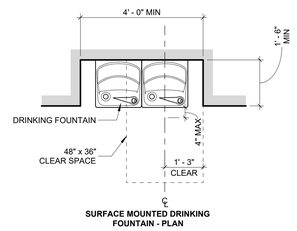
WALL HUNG LAVATORY - PLAN



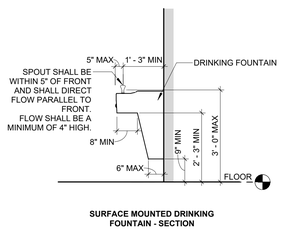
WALL HUNG LAVATORY - SECTION

C8 WALL HUNG LAVATORY CLEARANCES
1/2" = 1'-0"

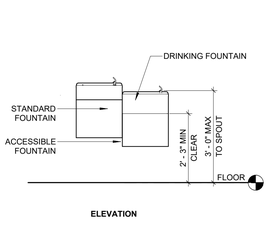
C1 LAVATORIES
1/2" = 1'-0"



SURFACE MOUNTED DRINKING FOUNTAIN - PLAN



SURFACE MOUNTED DRINKING FOUNTAIN - SECTION



ELEVATION

A1 DRINKING FOUNTAINS
1/2" = 1'-0"

GENERAL NOTES - ACCESSIBILITY GUIDELINES:

1. NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: FORWARD REACH = 48" MAX & 15" MIN SIDE REACH = 48" MAX & 15" MIN.
3. ELEVATORS: STD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP) & 48" MAX (3/4" SMALLEST DIM). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
4. DOOR HARDWARE (TO CENTER OF HARDWARE): STD MOUNTING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR. KICKPLATES: WIDTH = DOOR WIDTH MINUS 2", CENTER, HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STD = 1/2" MAX. AT EXT SLIDING DOORS = 3/4" MAX, ADA HARDWARE = 34" MIN TO 48" MAX
5. DRINKING FOUNTAINS & EWC'S (TO SPOUT): STD = 40" TYP, 42" MAX. ADA =36" MAX (27" MIN CLEAR KNEE SPACE)
6. COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN TO 34" MAX.
7. WATER CLOSETS (TO TOP OF SEAT): STD = 14" TO 15". ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX
8. URINALS (TO RIM): STD = 24" MAX. ADA =17" MAX. ADA FLUSH CONTROLS = 44" MAX
9. LAVATORIES (TO SINK RIM/ COUNTERTOP): STD = 36" MAX. ADA = 34" MAX (29" MIN CLEAR KNEE SPACE)
10. MIRRORS (TO B.O. REFLECTIVE SURFACE): STD = VARIES. ADA = 40" MAX
11. GRAB BARS: ADA (TO T.O. OF BAR): WATER CLOSETS = 33" MIN TO 36" MAX. SHOWERS = 33" MIN TO 36" MAX (FROM B.O. SHOWER). BATHTUBS: TOP BAR = 33" MIN TO 36" MAX B.O. BAR = 9" ABOVE TOP OF TUB.
12. SHOWER HEADS (FROM FLOOR TO HEAD): STD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 60" LONG MIN.
13. ADA FIXED SHOWER HEAD = 48" AFF
14. SHOWER ROD (FROM FLOOR TO C.L.): STD = 78" MAX
15. TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT & 70" TO TOP. URINALS = 18" TO BOT & 60" TO TOP.
16. TOILET PAPER DISPENSERS (TO OUTLET): STD = 24". ADA = 15" MIN TO 48" MAX
17. WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STD = 40". ADA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX ABOVE SINK IN COUNTER.
18. PAPER TOWEL DISPENSER (TO TOWEL SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX. ABOVE SINK IN COUNTER.
19. WARM AIR HAND DRYER (TO PUSH SWITCH): STD = 44" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
20. SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
21. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STD = 28" MAX. ADA = 19" MIN TO 24" MAX (TO OPNG)
22. TOILET SEAT COVER DISPENSERS (TO OPNG): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
23. SHELVES: ADA = 48" MAX
24. COAT HOOKS: STD = 68". ADA = 48" MAX
25. CHALKBOARDS, TACKBOARDS,& MARKERBOARDS: STD = 32" TO 39" (TO B.O. BOARD OR CHALKTRAY). STD = 80" (RECOMMENDED, TO TOP OF BOARD)
26. THERMOSTATS & CONTROL DEVICES (TO TOP): ADA
27. FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
28. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX
29. CONVENIENCE RECEPTACLES – ELECT/ TELEPHONE/ DATA (TO C.L.): STD = 18". ADA = 15" MIN
30. EXIT LIGHTS - WALL MOUNTED: 2" MIN BELOW CLG. 2" MIN ABOVE DOOR FRAME. EQUAL SPACE FROM CLG TO TOP OF FRAME.
31. FIRE EXTINGUISHERS (TO TOP, UNO): GROSS WT 40 LBS OR LESS = 60" MAX. GROSS WT MORE THAN 40 LBS = 42" MAX. ADA = 40" MAX (B.O. CABINET)
32. FIRE ALARM PULL STATIONS (TO LEVER): STD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
33. SMOKE AND/OR HEAT DETECTORS: STD = CLG HT.
34. HORN/ SPEAKER/ VISUAL SIGNALS: STD = 80" AFF OR 6" BELOW CLG - WHICHEVER IS LOWER.
35. ROOM SIGNAGE (TO C.L.): STD = 60" HIGH AFF & WITHIN 18" OF LATCH SIDE OF DOOR.
36. ALL MINIMUM AND MAXIMUM DIMENSIONS ARE MEASURED FROM THE FACE OF FINISHED WALL, NOT THE FACE OF THE SUBSTRATE.
37. WHEN MAX, MIN OR DIMENSIONAL RANGE IS GIVEN, THE CONSTRUCTION TOLERANCE DURING INSTALLATION MUST FIT WITHIN THE GIVEN RANGE, MAX OR MIN DIMENSION. NO EXCEPTIONS.
38. PROVIDE KNEE PROTECTION ON EXPOSED WATER SUPPLIES, P-TRAP AND DRAIN PIPING.
39. PROVIDE BLOCKING INSIDE WALL FOR ALL HORIZONTAL AND VERTICAL GRAB BARS EVEN WHEN THEY ARE NOT INSTALLED AS PART OF PROJECT SCOPE OF WORK (TYP.)

HOEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

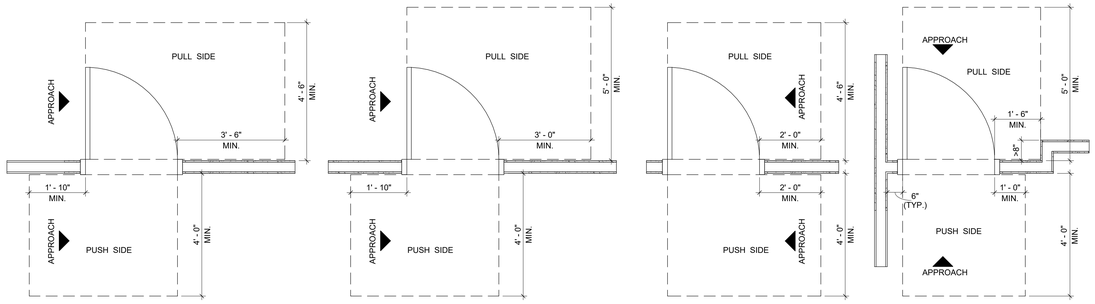
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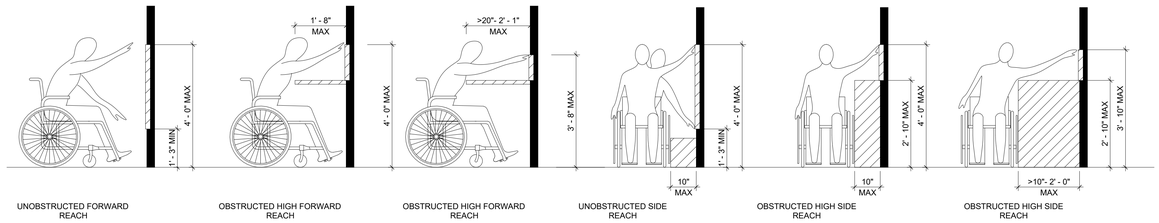
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ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

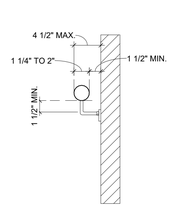
ACCESSIBILITY GUIDELINES



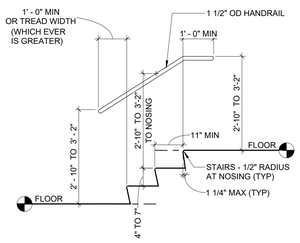
G1 TYP. DOOR JAMB & DOOR APPROACH CLEARANCES
1/2" = 1'-0"



E1 REACH RANGE
1/2" = 1'-0"

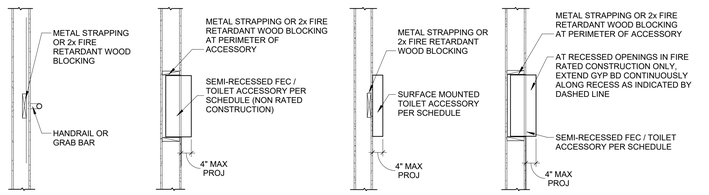


C8 HANDRAIL CLEARANCES
1 1/2" = 1'-0"

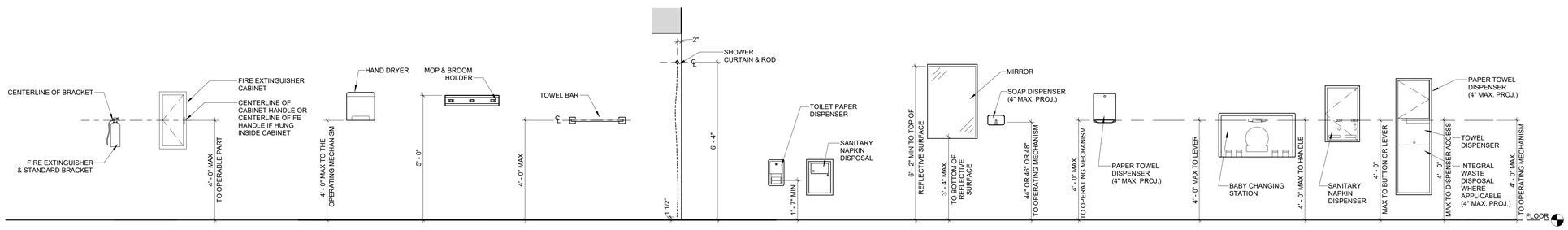


C6 HANDRAIL @ STAIRS
1/2" = 1'-0"

CABINETS OR OTHER LARGER ELEMENTS CUT INTO THE WALL SHOULD BE LINED WITH THE SAME NUMBER OF DRYWALL LAYERS AS THE SUBJECT WALL TO MAINTAIN STC RATING.



C1 TYPICAL BLOCKING DETAILS
1/2" = 1'-0"



A1 TOILET ACCESSORIES
1/2" = 1'-0"

GENERAL NOTES - ACCESSIBILITY GUIDELINES:

1. NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: FORWARD REACH = 48" MAX & 15" MIN SIDE REACH = 48" MAX & 15" MIN.
3. ELEVATORS: STD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP) & 48" MAX (3/4" SMALLEST DIM). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
4. DOOR HARDWARE (TO CENTER OF HARDWARE): STD MOUNTING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2", CENTER, HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STD = 1/2" MAX. AT EXT SLIDING DOORS = 3/4" MAX, ADA HARDWARE = 34" MIN TO 48" MAX
5. DRINKING FOUNTAINS & EWC'S (TO SPOUT): STD = 40" TYP. 42" MAX. ADA =36" MAX (27" MIN CLEAR KNEE SPACE)
6. COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN TO 34" MAX
7. WATER CLOSETS (TO TOP OF SEAT): STD = 14" TO 15". ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX
8. URINALS (TO RIM): STD = 24" MAX. ADA =17" MAX. ADA FLUSH CONTROLS = 44" MAX
9. LAVATORIES (TO SINK RIM/ COUNTERTOP): STD = 36" MAX. ADA = 34" MAX (29" MIN CLEAR KNEE SPACE)
10. MIRRORS (TO B.O. REFLECTIVE SURFACE): STD = VARIES. ADA = 40" MAX
11. GRAB BARS: ADA (TO T.O. OF BAR): WATER CLOSETS = 33" MIN TO 36" MAX. SHOWERS = 33" MIN TO 36" MAX (FROM B.O. SHOWER). BATHTUBS: TOP BAR = 33" MIN TO 36" MAX B.O. BAR = 9" ABOVE TOP OF TUB.
12. SHOWER HEADS (FROM FLOOR TO HEAD): STD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 60" LONG MIN.
13. ADA FIXED SHOWER HEAD = 48" AFF
14. SHOWER ROD (FROM FLOOR TO C.L.): STD = 78" MAX
15. TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT & 70" TO TOP. URINALS = 18" TO BOT & 60" TO TOP.
16. TOILET PAPER DISPENSERS (TO OUTLET): STD = 24". ADA = 15" MIN TO 48" MAX
17. WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STD = 40". ADA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX ABOVE SINK INCOUNTER.
18. PAPER TOWEL DISPENSER (TO TOWEL SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX. ABOVE SINK IN COUNTER.
19. WARM AIR HAND DRYER (TO PUSH SWITCH): STD = 44" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
20. SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
21. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STD = 28" MAX. ADA = 19" MIN TO 24" MAX (TO OPNG)
22. TOILET SEAT COVER DISPENSERS (TO OPNG): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
23. SHELVES: ADA = 48" MAX
24. COAT HOOKS: STD = 68". ADA = 48" MAX
25. CHALKBOARDS, TACKBOARDS,& MARKERBOARDS: STD = 32" TO 39" (TO B.O. BOARD OR CHALKTRAY). STD = 80" (RECOMMENDED, TO TOP OF BOARD)
26. THERMOSTATS & CONTROL DEVICES (TO TOP): ADA
27. FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
28. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX
29. CONVENIENCE RECEPTACLES - ELECT/ TELEPHONE/ DATA (TO C.L.): STD = 18". ADA = 15" MIN
30. EXIT LIGHTS - WALL MOUNTED: 2" MIN BELOW CLG. 2" MIN ABOVE DOOR FRAME. EQUAL SPACE FROM CLG TO TOP OF FRAME.
31. FIRE EXTINGUISHERS (TO TOP, UNO): GROSS WT 40 LBS OR LESS = 60" MAX. GROSS WT MORE THAN 40 LBS = 42" MAX. ADA = 40" MAX (B.O. CABINET)
32. FIRE ALARM PULL STATIONS (TO LEVER): STD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
33. SMOKE AND/OR HEAT DETECTORS: STD = CLG HT.
34. HORN/ SPEAKER/ VISUAL SIGNALS: STD = 80" AFF OR 6" BELOW CLG - WHICHEVER IS LOWER.
35. ROOM SIGNAGE (TO C.L.): STD = 60" HIGH AFF & WITHIN 18" OF LATCH SIDE OF DOOR.
36. ALL MINIMUM AND MAXIMUM DIMENSIONS ARE MEASURED FROM THE FACE OF FINISHED WALL, NOT THE FACE OF THE SUBSTRATE.
37. WHEN MAX, MIN OR DIMENSIONAL RANGE IS GIVEN, THE CONSTRUCTION TOLERANCE DURING INSTALLATION MUST FIT WITHIN THE GIVEN RANGE, MAX OR MIN DIMENSION. NO EXCEPTIONS.
38. PROVIDE KNEE PROTECTION ON EXPOSED WATER SUPPLIES, P-TRAP AND DRAIN PIPING.
39. PROVIDE BLOCKING INSIDE WALL FOR ALL HORIZONTAL AND VERTICAL GRAB BARS EVEN WHEN THEY ARE NOT INSTALLED AS PART OF PROJECT SCOPE OF WORK (TYP.)

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SUITE 1400
KANSAS CITY, MO 64112
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

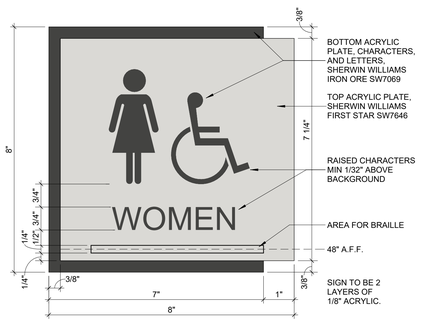
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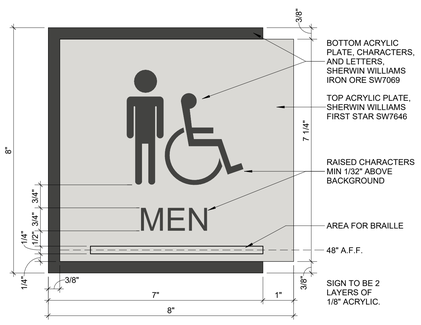
G-022

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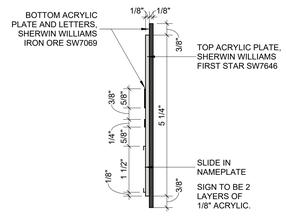
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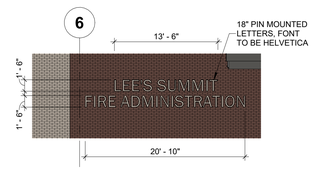
E10 SIGNAGE - TOILET WOMEN (W-RR)
6" = 1'-0"



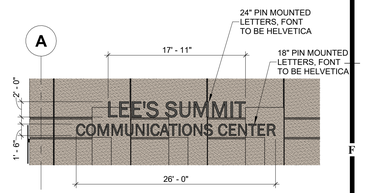
E7 SIGNAGE - TOILET MEN (M-RR)
6" = 1'-0"



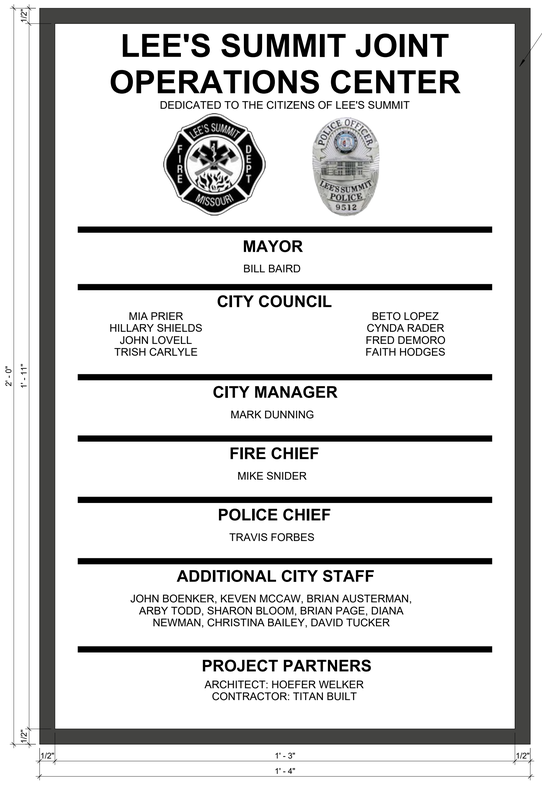
E5 SIGNAGE - ROOM NAME SECTION
6" = 1'-0"



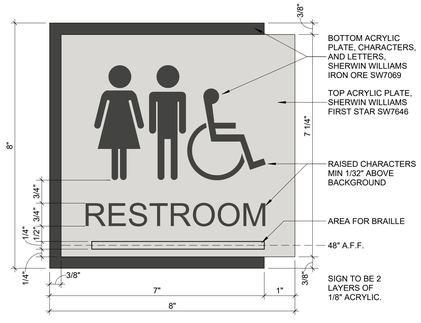
E3 EXTERIOR SIGNAGE - WEST
1/8" = 1'-0"



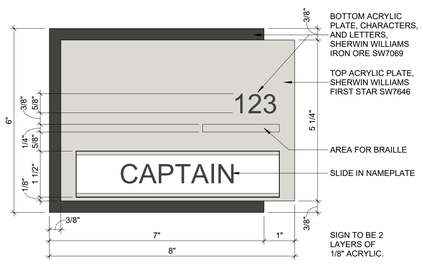
E1 EXTERIOR SIGNAGE - SOUTH
1/8" = 1'-0"



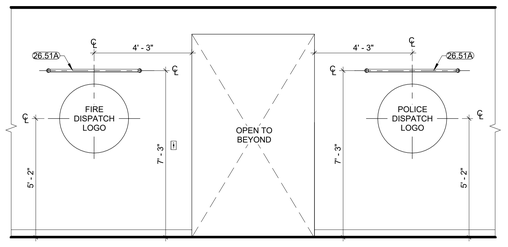
A10 SIGNAGE - DEDICATION
6" = 1'-0"



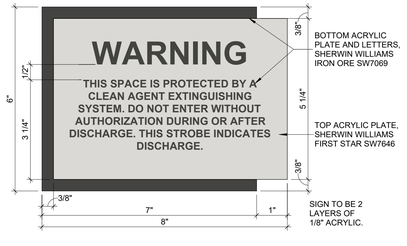
C7 SIGNAGE - TOILET UNISEX (RR)
6" = 1'-0"



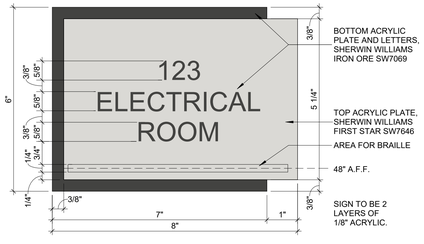
C5 SIGNAGE - OFFICE
6" = 1'-0"



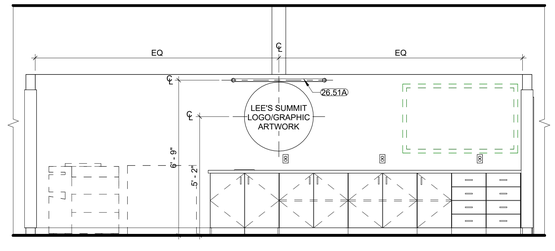
C1 010 COPY/WORK - W SIGNAGE
3/8" = 1'-0"



A7 SIGNAGE - FM200
6" = 1'-0"



A5 SIGNAGE - ROOM NAME
6" = 1'-0"



A1 010 COPY/WORK - E SIGNAGE
3/8" = 1'-0"

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SUITE 1400
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

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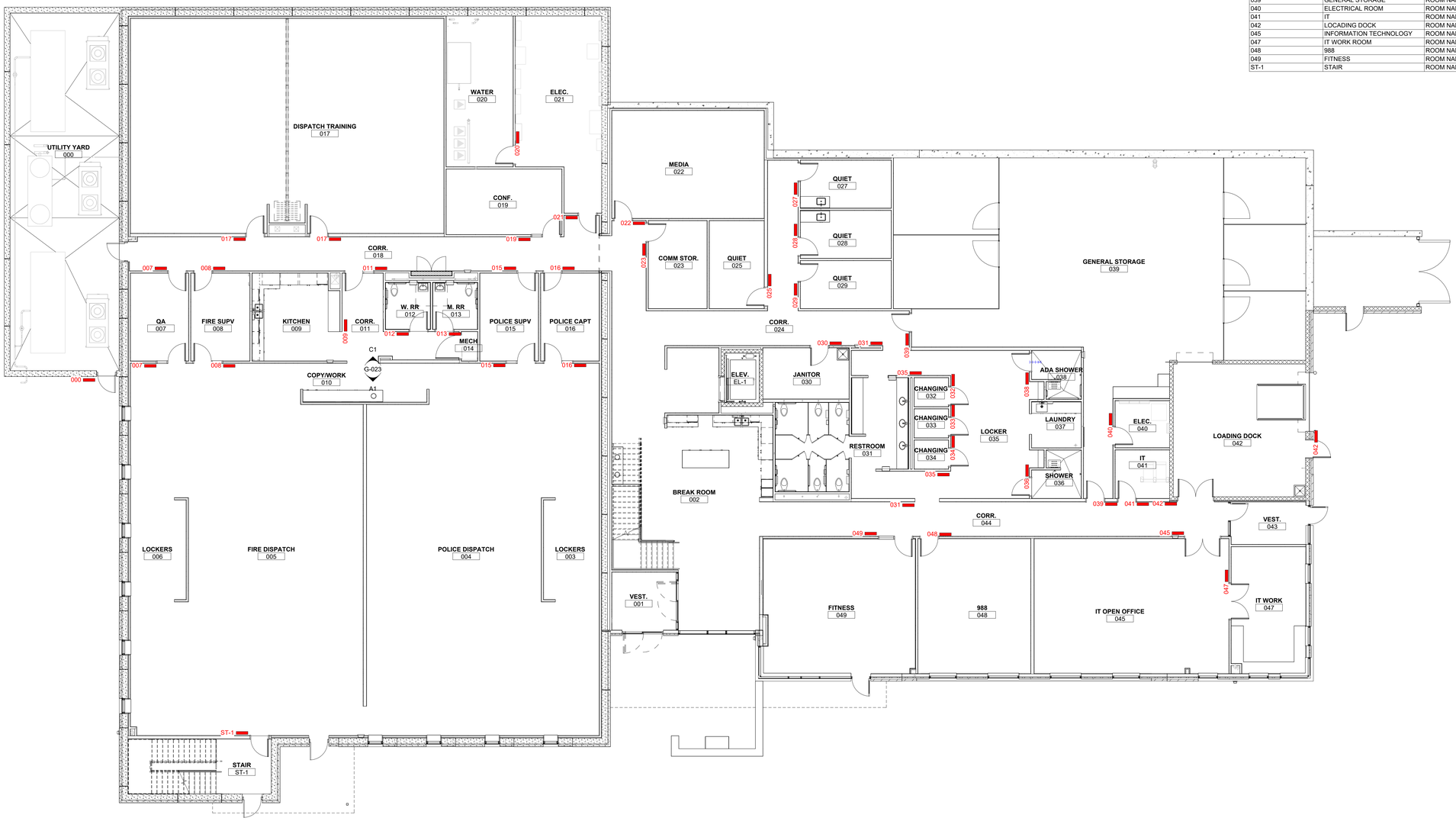
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G-023

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

SIGNAGE AND GRAPHIC ELEVATIONS

SIGNAGE SCHEDULE - LOWER LEVEL		
ROOM NUMBER	SIGN NAME	SIGNAGE TYPE
000	UTILITY YARD	ROOM NAME
007	QUALITY ASSURANCE	OFFICE
008	FIRE SUPERVISOR	OFFICE
009	KITCHEN	ROOM NAME
011	COMMUNICATIONS CENTER	ROOM NAME
012	WOMEN	TOILET WOMEN (W-RR)
013	MEN	TOILET MEN (M-RR)
015	POLICE SUPERVISOR	OFFICE
016	POLICE CAPATIN	OFFICE
017	DISTPATCH TRAINING	OFFICE
019	CONFERENCE	ROOM NAME
020	WATER ROOM	ROOM NAME
021	ELECTRICAL ROOM	ROOM NAME
022	MEDIA ROOM	ROOM NAME
023	COMMUNICATIONS STORAGE	ROOM NAME
025	QUIET ROOM	ROOM NAME
027	QUIET ROOM	ROOM NAME
028	QUIET ROOM	ROOM NAME
029	QUIET ROOM	ROOM NAME
030	JANITOR	ROOM NAME
031	RESTROOM	TOILET UNISEX (RR)
032	CHANGING	ROOM NAME
033	CHANGING	ROOM NAME
034	CHANGING	ROOM NAME
035	LOCKER ROOM	ROOM NAME
036	SHOWER	ROOM NAME
038	ADA SHOWER	ROOM NAME
039	GENERAL STORAGE	ROOM NAME
040	ELECTRICAL ROOM	ROOM NAME
041	IT	ROOM NAME
042	LOCADING DOCK	ROOM NAME
045	INFORMATION TECHNOLOGY	ROOM NAME
047	IT WORK ROOM	ROOM NAME
048	988	ROOM NAME
049	FITNESS	ROOM NAME
ST-1	STAIR	ROOM NAME



A1 LOWER LEVEL SIGNAGE PLAN
1/8" = 1'-0"

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LOWER LEVEL - SIGNAGE PLAN

SIGNAGE SCHEDULE - MAIN LEVEL		
ROOM NUMBER	SIGN NAME	SIGNAGE TYPE
103	PUBLIC RESTROOM	TOILET UNISEX (RR)
105	CONFERENCE	ROOM NAME
106	STORAGE	OFFICE
107	FIRE OPERATIONS CENTER	ROOM NAME
110	BATTALION CHIEF PREVENTION	OFFICE
111	ASSISTANT CHIEF PREVENTION	OFFICE
112	MEDICAL DIRECTOR	OFFICE
113	ASSISTANT CHIEF EMS	OFFICE
114	ADMINISTRATIVE CONFERENCE	ROOM NAME
115	DEPUTY CHIEF ADMINISTRATION	OFFICE
116	ASSISTANT CHIEF SUPPORT SERVICES	OFFICE
116B	STORAGE	ROOM NAME
121	FIRE CHIEF	OFFICE
122	STORAGE	ROOM NAME
123	RESTROOM	TOILET UNISEX (RR)
124	PUBLIC RELATIONS	OFFICE
125	ADMINISTRATION MANAGER	OFFICE

SIGNAGE SCHEDULE - MAIN LEVEL		
ROOM NUMBER	SIGN NAME	SIGNAGE TYPE
126	BATTALION CHIEF TRAINING	OFFICE
127	ASSISTANT CHIEF TRAINING	OFFICE
128	OPERATIONS DIVISION CONFERENCE	ROOM NAME
129	DEPUTY CHIEF OPERATIONS	OFFICE
130	RESTROOM	TOILET UNISEX (RR)
131	RESTROOM	TOILET UNISEX (RR)
132	RESTROOM	TOILET UNISEX (RR)
133	RESTROOM	TOILET UNISEX (RR)
134	ROOF ACCESS	ROOM NAME
139	EMERGENCY OPERATIONS CENTER	ROOM NAME
140	CONFERENCE	ROOM NAME
141	STORAGE	ROOM NAME
142	CONFERENCE	ROOM NAME
143	CONFERENCE	ROOM NAME
144	PLANNER	OFFICE
145	ASSISTANT CHIEF EMERGENCY MANAGEMENT	OFFICE
146	SERVER ROOM	ROOM NAME/FM200
147	UPS	ROOM NAME
148	BREAK ROOM	ROOM NAME
149	JANITOR	ROOM NAME
151	DRIVING SIMULATOR	ROOM NAME
152	EMS SIMULATOR	ROOM NAME
153	STORAGE	ROOM NAME
155	TRAINING ROOM	ROOM NAME
156	STORAGE	ROOM NAME
157	MECHANICAL	ROOM NAME



A1 MAIN LEVEL SIGNAGE PLAN
1/8" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

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G-025

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

MAIN LEVEL - SIGNAGE PLAN

CODE INFORMATION:
PROJECT:LEE'S SUMMIT JOINT OPERATIONS FACILITY
LOCATION: LEE'S SUMMIT, MO

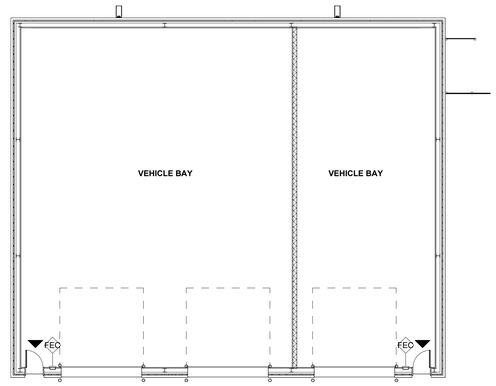
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KANSAS CITY, MO 64112

APPLICABLE CODES:	
APPLICABLE BUILDING CODE:	**2018 INTERNATIONAL BUILDING CODE**
APPLICABLE MECHANICAL CODE:	**2018 INTERNATIONAL MECHANICAL CODE**
APPLICABLE PLUMBING CODE:	**2018 INTERNATIONAL PLUMBING CODE**
APPLICABLE ELECTRICAL CODE:	**2017 NATIONAL ELECTRICAL CODE**
APPLICABLE FIRE CODE	**2018 INTERNATIONAL FIRE CODE**
APPLICABLE ACCESSIBILITY CODE:	**2009 ICC/ANSI A117.1**

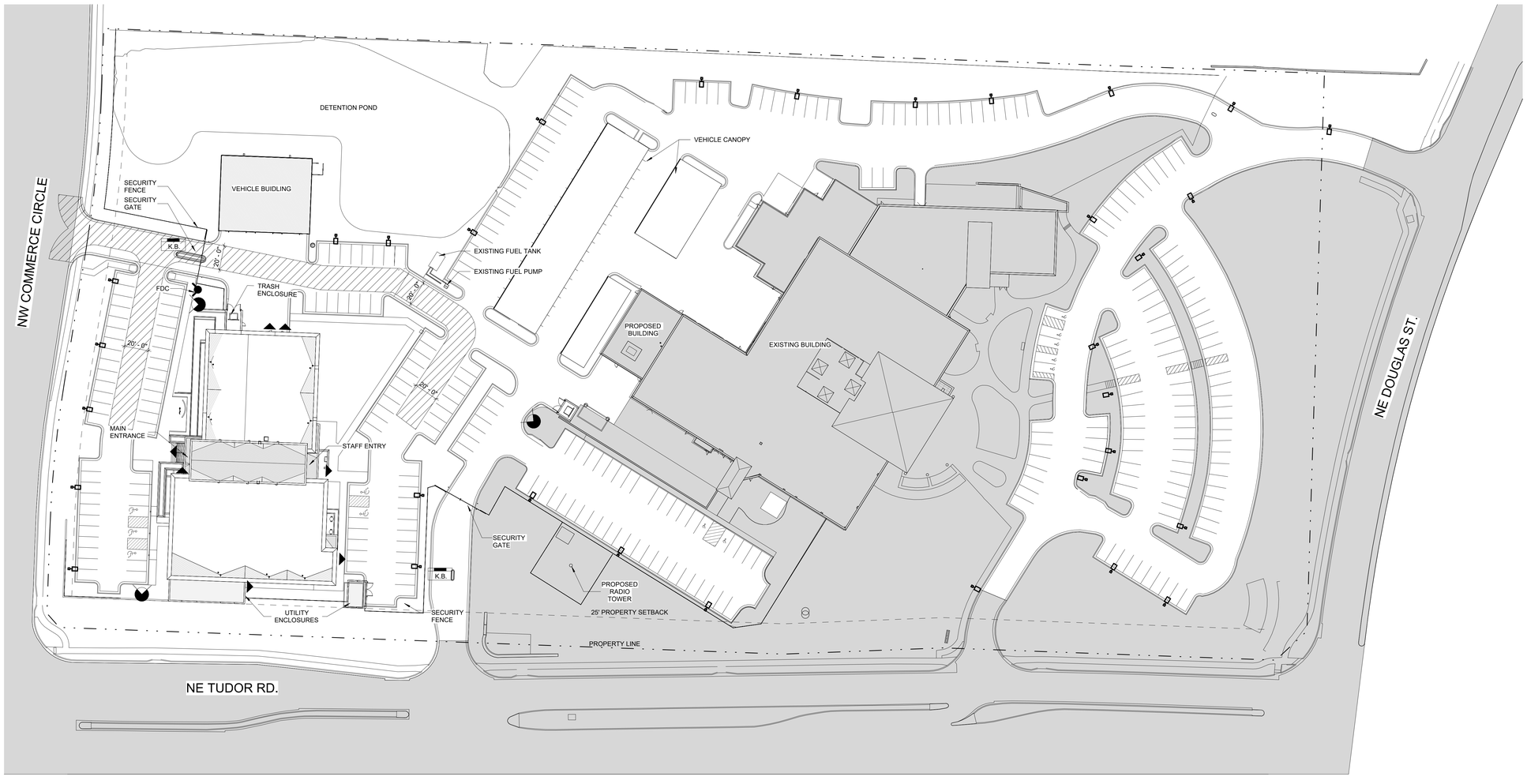
ISSUE (TABLE/ SECTION/ REFERENCE):	**REQUIREMENT:**	**TABLE/SECTION/REFERENCE:**
BUILDING/PROJECT USE:	VEHICLE STORAGE (NOT A REPAIR GARAGE)	SECTION 311
CONSTRUCTION TYPE :	TYPE VB (FULLY SPRINKLED)	TABLE 601
OCCUPANCY CLASSIFICATION:	S-2 STORAGE	SECTION 311

BUILDING AREA:	**REQUIREMENT:**	**TABLE/SECTION/REFERENCE:**
BASE ALLOWABLE AREA	54,000 SF PER FLOOR	TABLE 506.2
ACTUAL GROSS FLOOR AREA	4,724 SF	
BUILDING HEIGHT:		
ALLOWABLE STORIES ABOVE GRADE	3 STORIES	TABLE 504.4
ALLOWABLE HEIGHT	60'	TABLE 504.3
ACTUAL NUMBER OF STORIES ABOVE GRADE	1 STORIES	
ACTUAL HEIGHT IN FEET ABOVE GRADE	21'-0"	
OCCUPANT LOAD - GSF:		
TOTAL BUILDING OCCUPANTS	4,724 SF / 300 = 16 OCCUPANTS	TABLE 1004.5
EXIT TRAVEL DISTANCE - FULLY SPRINKLED):		
S OCCUPANCY	250'	TABLE 1017.2
COMMON PATH OF TRAVEL	100'	SECTION 1006.2.1
DEAD END CORRIDOR	50'	SECTION 1020.4
EXIT WIDTH:		
EXIT DOOR WIDTH REQUIRED	16 TOTAL OCCUPANTS X .15 = 3"	SECTION 1005.3.2
EXIT DOOR WIDTH PROVIDED	2 DOORS X 33" = 66"	

FIRE RESISTIVE REQUIREMENTS (TABLE/ SECTION/ REFERENCE):	**REQUIREMENTS CONSTRUCTION TYPE IIB:**	**TABLE/SECTION/REFERENCE**
EXTERIOR BEARING WALLS	0 HRS	TABLE 601
EXTERIOR OPENINGS	NO LIMIT	TABLE 716.1
EXTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
INTERIOR BEARING WALLS	0 HRS	TABLE 601
INTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
STRUCTURAL FRAME	0 HRS	TABLE 601
FLOOR CONSTRUCTION	0 HRS	TABLE 601
ROOF	0 HRS	TABLE 601
CORRIDORS	0 HRS	TABLE 1018.1



G1 VEHICLE BUILDING LIFE SAFETY
3/32" = 1'-0"



NORTH

A1 LIFE SAFETY SITE PLAN
1" = 40'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

SITE LIFE SAFETY LEGEND

- FIRE TRUCK ROUTE THROUGH SITE
- PROPERTY LINE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- BUILDING EGRESS
- K.B. — KNOX BOX

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SUITE 1400
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
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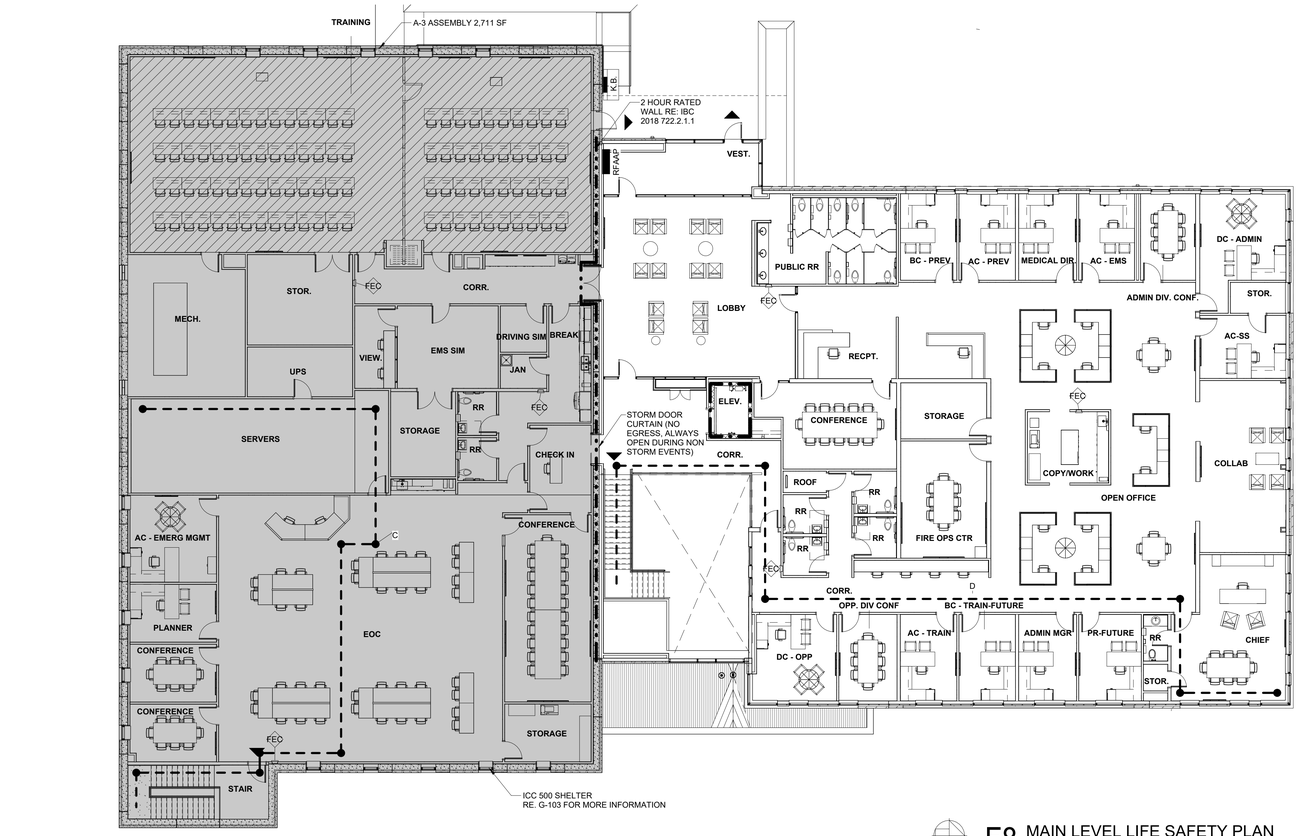
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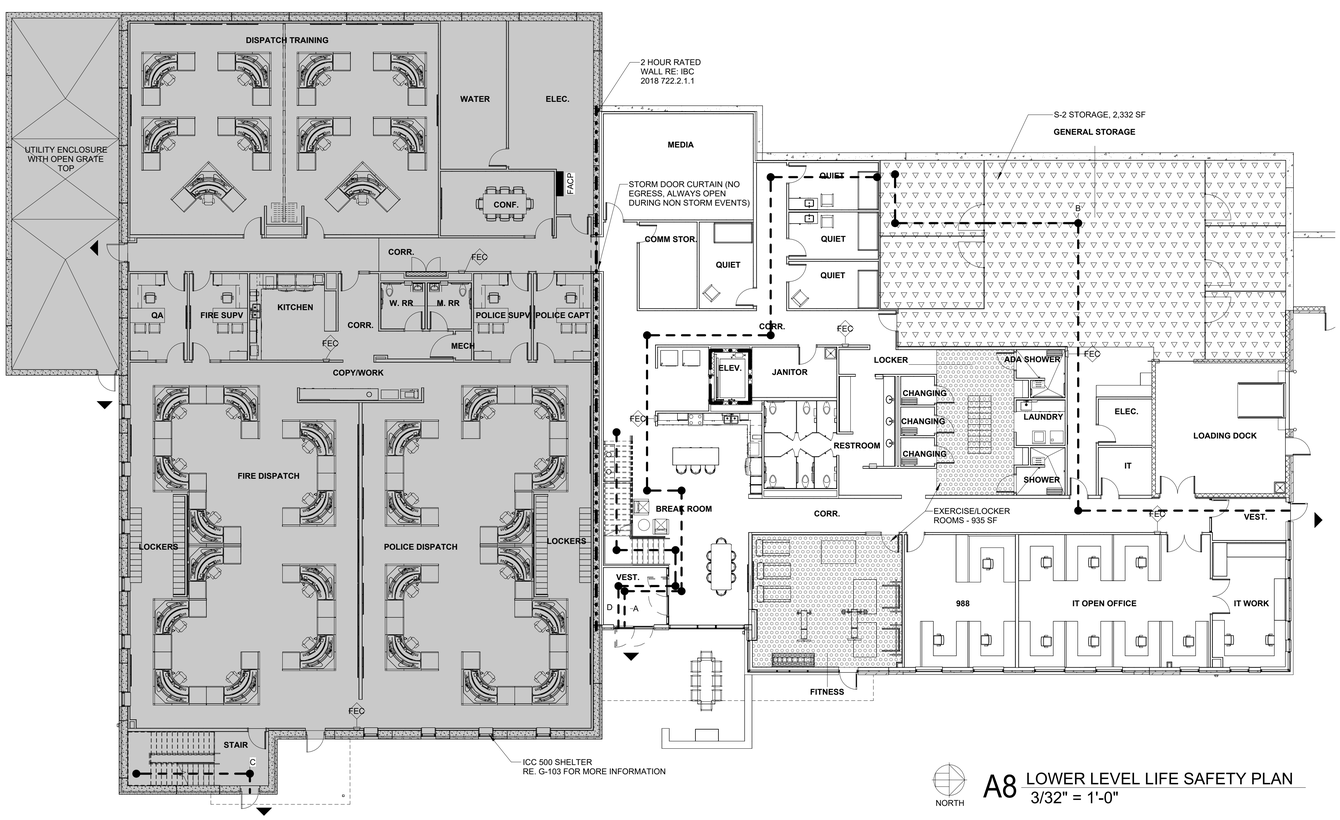
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LIFE SAFETY SITE PLAN



NORTH

F8 MAIN LEVEL LIFE SAFETY PLAN
3/32" = 1'-0"



NORTH

A8 LOWER LEVEL LIFE SAFETY PLAN
3/32" = 1'-0"

CODE INFORMATION:
PROJECT:LEE'S SUMMIT JOINT OPERATIONS FACILITY
LOCATION: LEE'S SUMMIT, MO

ARCHITECT:
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KANSAS CITY, MO 64112

APPLICABLE CODES:

APPLICABLE BUILDING CODE:	**2018 INTERNATIONAL BUILDING CODE**
APPLICABLE MECHANICAL CODE:	**2018 INTERNATIONAL MECHANICAL CODE**
APPLICABLE PLUMBING CODE:	**2018 INTERNATIONAL PLUMBING CODE**
APPLICABLE ELECTRICAL CODE:	**2017 NATIONAL ELECTRICAL CODE**
APPLICABLE FIRE CODE	**2018 INTERNATIONAL FIRE CODE**
APPLICABLE ACCESSIBILITY CODE:	**2009 ICC/ANSI A117.1**
APPLICABLE STORM SHELTER CODE:	**2014 ICC 500**

ISSUE (TABLE/ SECTION/ REFERENCE):	**REQUIREMENT:**	**TABLE/SECTION/REFERENCE:**
BUILDING/PROJECT USE:	BUSINESS	SECTION 304
CONSTRUCTION TYPE :	TYPE IIB (FULLY SPRINKLED)	TABLE 601
OCCUPANCY CLASSIFICATION:	A-3 - ASSEMBLY	SECTION 303.4
USE CLASSIFICATION	B - BUSINESS	SECTION 304

BUILDING AREA:	**REQUIREMENT:**	**TABLE/SECTION/REFERENCE:**
BASE ALLOWABLE AREA - NON SEPARATED MIXED USE		
A OCCUPANCY ALLOWABLE:	28,500 SF PER FLOOR	TABLE 506.2
ACTUAL GROSS FLOOR AREA		
LOWER LEVEL	21,817 SF	
MAIN LEVEL	21,822 SF	
TOTAL	43,639 SF	

BUILDING HEIGHT:		
ALLOWABLE STORIES ABOVE GRADE	3 STORIES	TABLE 504.4
ALLOWABLE HEIGHT	75'	TABLE 504.3
ACTUAL NUMBER OF STORIES ABOVE GRADE	2 STORIES	
ACTUAL HEIGHT IN FEET ABOVE GRADE	40'-8"	

OCCUPANT LOAD - GSF:		
LOWER LEVEL		
B OCCUPANCY	18,550 SF / 150 = 124 OCCUPANTS	TABLE 1004.5
B OCCUPANCY - EXERCISE/LOCKER ROOMS	935 SF / 50 = 19 OCCUPANTS	TABLE 1004.5
S-2 OCCUPANCY	2,332 SF / 300 = 8 OCCUPANTS	TABLE 1004.5
LOWER LEVEL TOTAL OCCUPANTS	151 TOTAL LOWER LEVEL OCCUPANTS	
MAIN LEVEL		
B OCCUPANCY	19,111 SF / 150 = 128 OCCUPANTS	TABLE 1004.5
A-3 OCCUPANCY	2,711 SF / 15 = 181 OCCUPANTS	TABLE 1004.5
MAIN LEVEL TOTAL OCCUPANTS	309 TOTAL MAIN LEVEL OCCUPANTS	
TOTAL BUILDING OCCUPANTS	460 TOTAL BUILDING OCCUPANTS	

EXIT TRAVEL DISTANCE - FULLY SPRINKLED):		
A OCCUPANCY	250'	TABLE 1017.2
COMMON PATH OF TRAVEL	75'	SECTION 1006.2.1
DEAD END CORRIDOR	20'	SECTION 1020.4
B OCCUPANCY	300'	TABLE 1017.2
COMMON PATH OF TRAVEL	100'	SECTION 1006.2.1
DEAD END CORRIDOR	50'	SECTION 1020.4

EXIT WIDTH:		
LOWER LEVEL EXIT DOOR WIDTH REQUIRED	151TOTAL OCCUPANTS X .15 = 23"	SECTION 1005.3.2
EXIT DOOR WIDTH PROVIDED	4 DOORS X 33" = 132"	
MAIN LEVEL EXIT DOOR WIDTH REQUIRED	309 TOTAL OCCUPANTS X .15 = 47"	SECTION 1005.3.2
EXIT DOOR WIDTH PROVIDED	2 DOORS X 33" = 66"	
EXIT STAIR WIDTH REQUIRED	309/4 "OCCUPANTS X .20 = 16" @ EACH STAIR	SECTION 1005.3.1
EXIT STAIR WIDTH PROVIDED	2 STAIRS 47" + 55" = 102"	

FIRE RESISTIVE REQUIREMENTS (TABLE/ SECTION/ REFERENCE):	**REQUIREMENTS CONSTRUCTION TYPE IIB:**	**TABLE/SECTION/REFERENCE**
EXTERIOR BEARING WALLS	0 HRS	TABLE 601
EXTERIOR OPENINGS	NO LIMIT	TABLE 716.1
EXTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
INTERIOR BEARING WALLS	0 HRS	TABLE 601
INTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
STRUCTURAL FRAME	0 HRS	TABLE 601
FLOOR CONSTRUCTION	0 HRS	TABLE 601
ROOF	0 HRS	TABLE 601
CORRIDORS	0 HRS	TABLE 1018.1
SHAFT WALLS	1 HRS	TABLE 713.4
EXIT ACCESS STAIRWAYS	0 HRS	TABLE 1019.3
STORM SHELTER	2 HRS	2014 ICC 500 601.1

PLUMBING FIXTURES REQUIRED CHART (IBC 2018 TABLE 2902.1):

OCCUPANT LOADS:	MALE	FEMALE	UNISEX
B - TOTAL OCCUPANT LOAD = 305 OCCUPANTS	153	153	-
A - TOTAL OCCUPANT LOAD = 181 OCCUPANTS	91	91	-
WATER CLOSETS (IBC 2018 TABLE 2902.1):			
B - OCCUPANT WATER CLOSETS REQUIRED (1 PER 25 FOR THE FIRST 50 & 1 PER 50 FOR THE REMAINDER EXCEEDING 50)	5	5	-
A - OCCUPANT WATER CLOSETS REQUIRED (1 PER 125 MALE, 1 PER 65 FEMALE)	1	2	-
TOTAL WATER CLOSETS REQUIRED	6	7	-
TOTAL WATER CLOSETS PROVIDED	1	1	20
LAVATORIES (IBC 2018 TABLE 2902.1):			
B - OCCUPANT LAVATORIES REQUIRED (1 PER 40 FOR THE FIRST 80 & 1 PER 80 FOR THE REMAINDER EXCEEDING 80)	3	3	-
A - OCCUPANT LAVATORIES REQUIRED (1 PER 200)	1	1	-
TOTAL LAVATORIES REQUIRED	4	4	-
LAVATORIES PROVIDED	1	1	12

DRINKING FOUNTAINS (IBC 2018 TABLE 2902.1):	
B - OCCUPANTS - (1 PER 100 TOTAL OCCUPANTS)	4
A - OCCUPANTS - (1 PER 500 TOTAL OCCUPANTS)	1
TOTAL DRINKING FOUNTAINS REQUIRED	5
TOTAL DRINKING FOUNTAINS (DF), AND FILTERED WATER (FW) PROVIDED	5 (2 DF + 3 FW)
SERVICE SINK (1 PER FLOOR)	2

LIFE SAFETY LEGEND

- DIRECTION OF EGRESS TRAVEL
- FEC — FIRE EXTINGUISHER CABINET
- RFAAP — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FDC — FIRE DEPARTMENT CONNECTION
- K.B. — KNOX BOX
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- STORM SHELTER
- A-3 ASSEMBLY
- S-2 STORAGE
- B-EXERCISE/LOCKER ROOMS

CODE REQUIRED SIGNAGE NOTE:

1. CODE REQUIRED SIGNAGE PER ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION INCLUDING BUT NOT LIMITING TO IBC, IFC, NFPA, ICC A117.1, ADAGA, FGI, AND AHJ REGULATIONS SHALL BE PROVIDED.
2. CODE REQUIRED SIGNAGE IS DESIGNED, SPECIFIED, AND INSTALLED BY CONTRACTOR.
3. CODE REQUIRED SIGNAGE IS REQUIRED TO BE INSTALLED PRIOR TO REQUESTING FINAL INSPECTION IN ORDER TO OBTAIN CERTIFICATE OF OCCUPANCY
4. CODE REQUIRED SIGNAGE MUST BE VERIFIED PER PROJECT. SOME EXAMPLES OF CODE REQUIRED SIGNAGE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   - A. REQUIRED ACCESSIBLE SIGNAGE:
     - a. ADA PARKING SPACES
     - b. ACCESSIBLE PASSENGER LOADING ZONES
     - c. ACCESSIBLE TOILETS
     - d. FAMILY OR ASSISTED-USE TOILET AND BATHING ROOMS
     - e. ACCESSIBLE DRESSING ROOMS
   - B. DIRECTIONAL SIGNAGE INCLUDING:
     - a. AT EACH SEPARATE SEX TOILET AND BATHING ROOM INDICATING THE LOCATION OF THE NEAREST FAMILY/ ASSISTED USE TOILET OR BATHING ROOM
     - b. ALL EXITS AND EXIT STAIRWAYS SERVING A REQUIRED ACCESSIBLE SPACE
     - c. DIRECTIONAL SIGNAGE AT ELEVATOR LANDINGS TO SHOW EXIT LOCATIONS
   - C. OTHER CODE SIGNAGE INCLUDING:
     - a. ELEVATOR TWO-WAY COMMUNICATING SYSTEMS
     - b. INTERIOR EXIT STAIRWAYS AND RAMPS, FLOOR LEVEL SIGNAGE INCLUDING STAIR WITH ROOF ACCESS
     - c. ELECTRICAL ROOMS
     - d. COMMUNICATION/ DATA ROOMS
     - e. MAXIMUM CAPACITY AT ASSEMBLY AREAS

EGRESS (MAXIMUM TRAVEL...	
TYPE	**DISTANCE**
Egress Path A	134' - 0"
Egress Path B	127' - 1"
Egress Path C	174' - 5"
Egress Path D	208' - 8"

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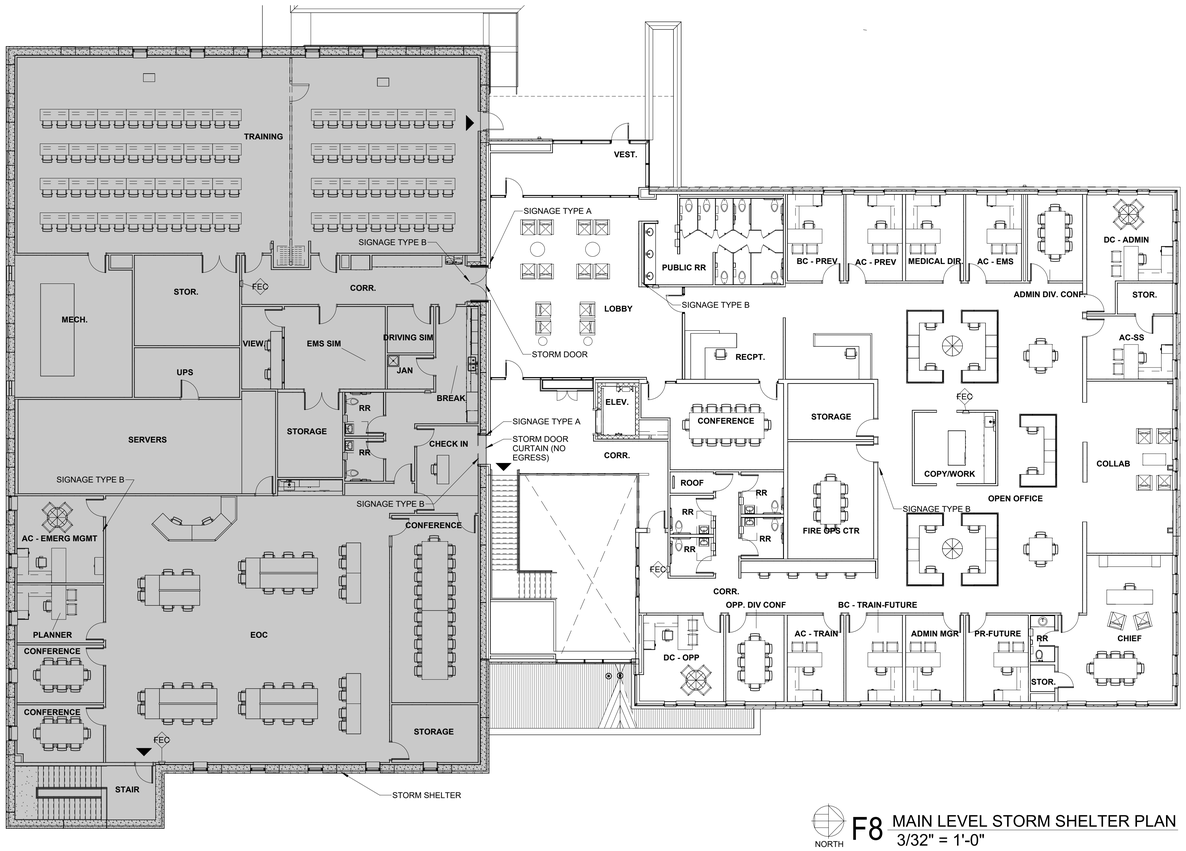
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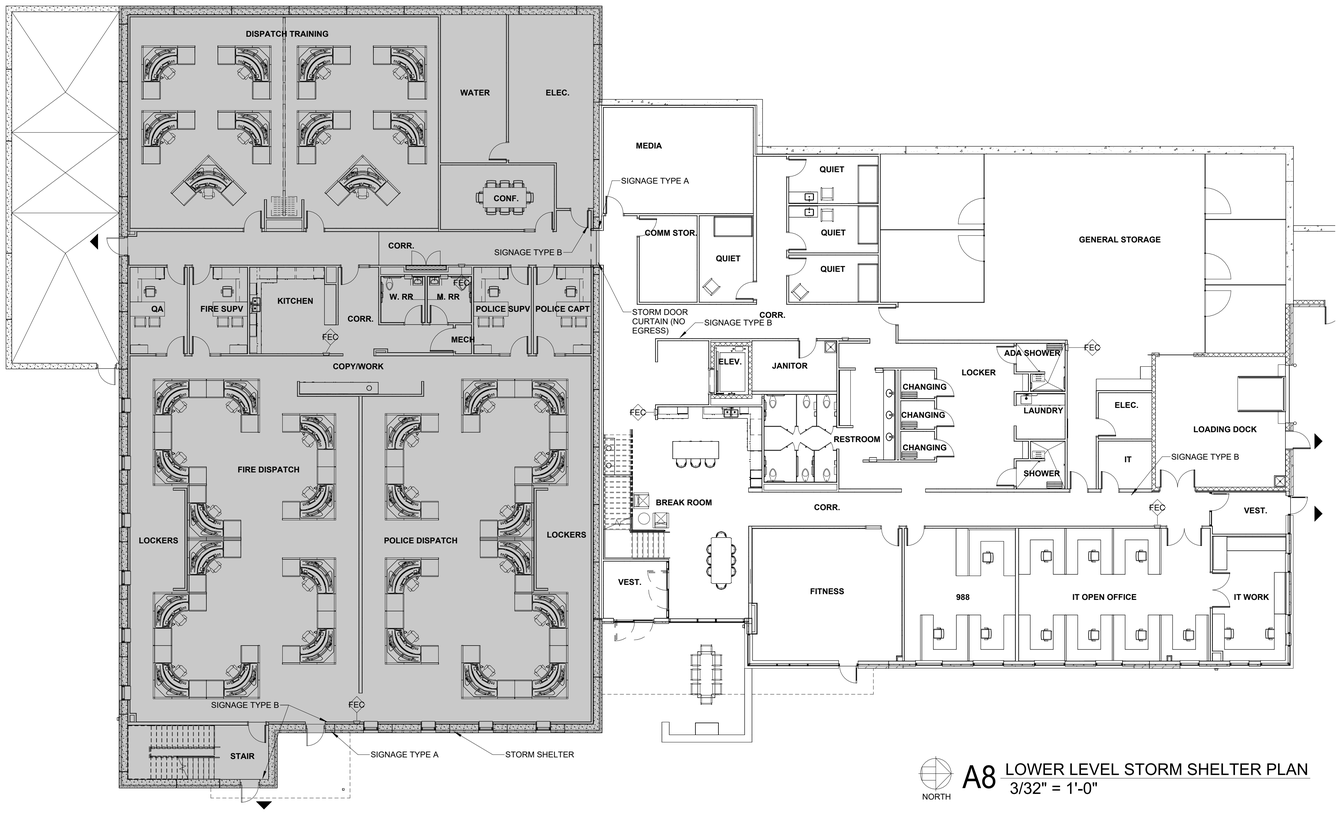
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LIFE SAFETY PLANS



NORTH **F8** MAIN LEVEL STORM SHELTER PLAN
3/32" = 1'-0"



NORTH **A8** LOWER LEVEL STORM SHELTER PLAN
3/32" = 1'-0"

SHELTER OCCUPANCY

OCCUPANCY OF SHELTER:

THE OCCUPANCY OF THE SHELTER IS BASED ON THE TOTAL STAFF OCCUPANCY OF ALL BUILDINGS ON THE SITE:

TOTAL SHELTER OCCUPANCY	= 100 OCCUPANTS
SHELTER AREA REQUIRED:	
99 STANDING/SEATED x 5 OLF	= 495 SF
1 WHEELCHAIRS x 10 OLF	= 10 SF
TOTAL	= 505 SF
STORM SHELTER AREA PROVIDED	= 11,767 SF

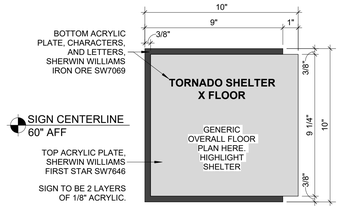
REQUIRED SHELTER SANITATION FACILITIES:

TOILETS
REQUIRED
1 TOILETS REQUIRED PER 50 OCCUPANTS = 2
PROVIDED = 4 TOILETS

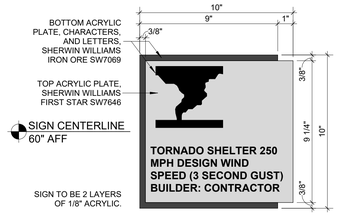
HANDWASHING
REQUIRED
1 PER 100 OCCUPANTS (TABLE 702.2) = 1
PROVIDED = 4 LAVATORIES

REQUIRED DESIGN INFORMATION

1. SHELTER TYPE: COMMUNITY
2. WIND DESIGN CONFORMS TO THE PROVISIONS OF ICC 500-2014, ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS.
3. SHELTER DESIGN WIND SPEED: 250 MPH
4. WIND EXPOSURE CATEGORY: REFER TO STRUCTURAL DOCUMENTS
5. INTERNAL PRESSURE COEFFICIENT: REFER TO STRUCTURAL DOCUMENTS
6. TOPOGRAPHIC FACTOR: REFER TO STRUCTURAL DOCUMENTS
7. DIRECTIONAL FACTOR: REFER TO STRUCTURAL DOCUMENTS
8. THE SHELTER IS NOT WITHIN AN AREA SUSCEPTIBLE TO FLOODING IN ACCORDANCE WITH ICC-500 2014 CHAPTER 4.
9. CLOSEST 500 YR (1%)
   FLOOD ELEVATION: **936**
   SHELTER ELEVATION: **1010**
10. SHELTER ENVELOPE MEETS THE PRESSURE AND MISSILE IMPACT TEST REQUIREMENTS IDENTIFIED IN 2014 ICC 500, CHAPTERS 3 AND 8. REFERENCE STRUCTURAL DOCUMENTS FOR WALL AND FLOOR SLAB CONSTRUCTION. REFERENCE MECHANICAL DOCUMENTS FOR LOUVERS. REFERENCE ARCHITECTURAL DOCUMENTATION FOR DOORS AND OVERHEAD COILING DOOR INFORMATION.
11. REFERENCE THIS SHEET FOR STORM SHELTER PLANS.
12. REFERENCE A-301 FOR STORM SHELTER ELEVATIONS
13. LOWEST SHELTER FLOOR ELEVATION: **1010'**
    CORRESPONDING DATUM: **88' - 4"**
14. REQUIRED OCCUPANT LOAD OF SHELTER: **100**.
15. USABLE STORM SHELTER FLOOR AREA: **11,767 SF**
16. VENTING AREA PROVIDED AND LOCATIONS WITHIN SHELTER: REFER TO MECHANICAL DOCUMENTS.
17. CALCULATIONS FOR NUMBER OF SANITATION FACILITIES IN COMMUNITY SHELTER (PER 2014 ICC 500, TABLE 702.2) REFERENCE "REQUIRED SHELTER PLUMBING FIXTURES" CALCULATION ABOVE. **4** TOILETS AND **2** LAVATORIES ARE REQUIRED.
18. MINIMUM FOUNDATION CAPACITY: RE STRUCTURAL DOCUMENTS.
19. SHELTER INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS AND MINIMUM REQUIRED CAPACITY AT EACH ANCHOR: REF STRUCTURAL DOCUMENT



G3 STORM SHELTER SIGN TYPE B
3" = 1'-0"



G1 STORM SHELTER SIGN TYPE A
3" = 1'-0"

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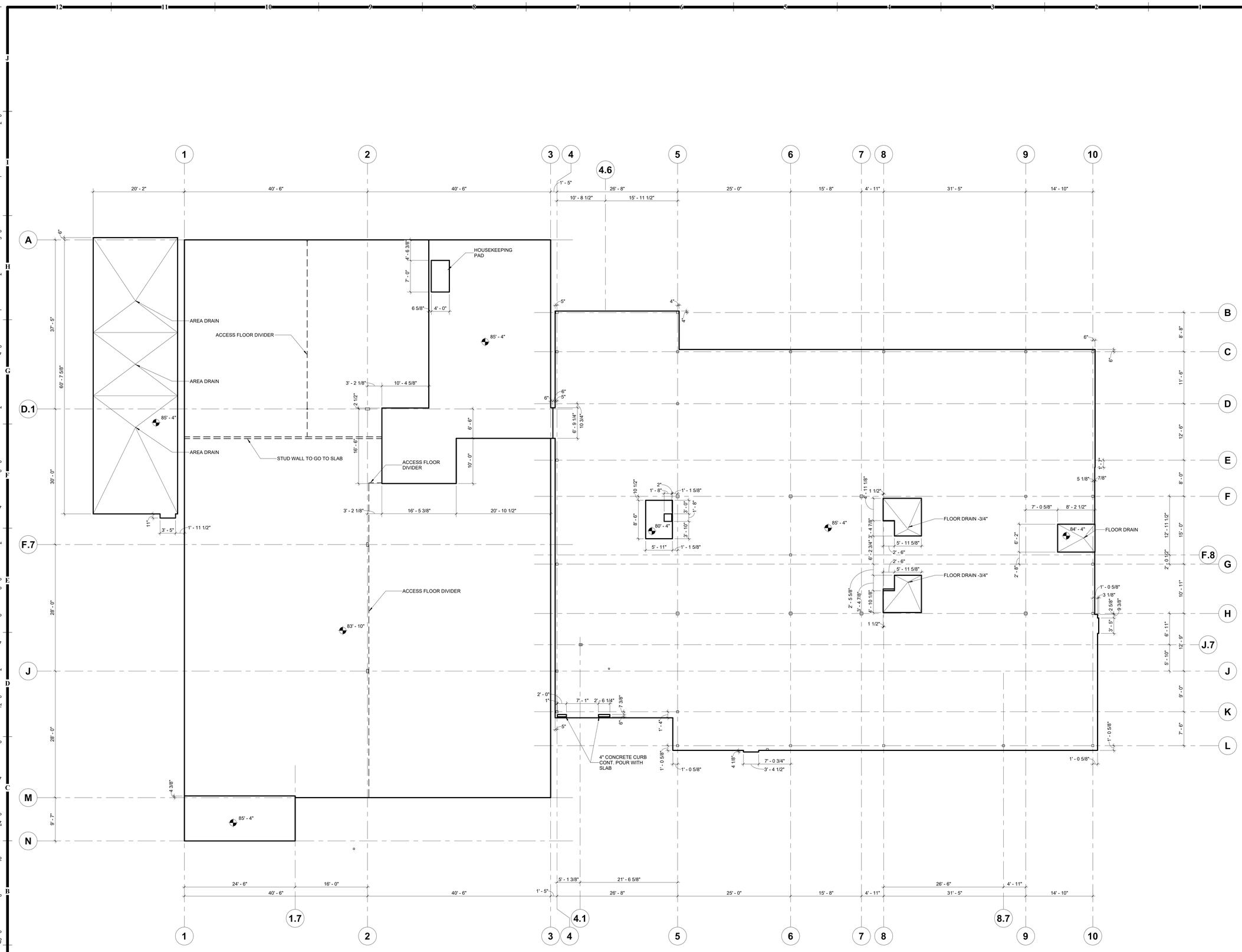
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STORM SHELTER COMPLIANCE



GENERAL NOTES - GRID GEOMETRY PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS FOR EDGE OF SLAB, SLAB OPENINGS, SLAB DEPRESSIONS, AND/ OR THICKENED SLABS ARE SHOWN ON THE STRUCTURAL DRAWINGS.
3. WP = WORK POINTS.
4. CONTRACTOR IS TO START THE BUILDING LAYOUT FROM THE FIRST WORK POINT, THEN THE NEXT, ETC. - TO ESTABLISH THE GRID GEOMETRY FOR THE BUILDING.
5. WORK POINTS ARE TO BE COORDINATED FROM THE (G-11111 SHEETS) ARCHITECTURAL GRID GEOMETRY PLAN(S) - FOR THE CIVIL AND STRUCTURAL DRAWINGS.
6. WORK POINTS ON CIVIL DRAWINGS SHOW THEIR ASSOCIATED LONGITUDE AND LATITUDE - FOR CORRECT PLACEMENT OF THE BUILDING ON THE SITE.
7. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CIVIL OR STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK.

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A1 LOWER LEVEL GRID GEOMETRY PLAN
1/8" = 1'-0"

NORTH

GRID GEOMETRY PLAN

GENERAL NOTES - GRID GEOMETRY PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
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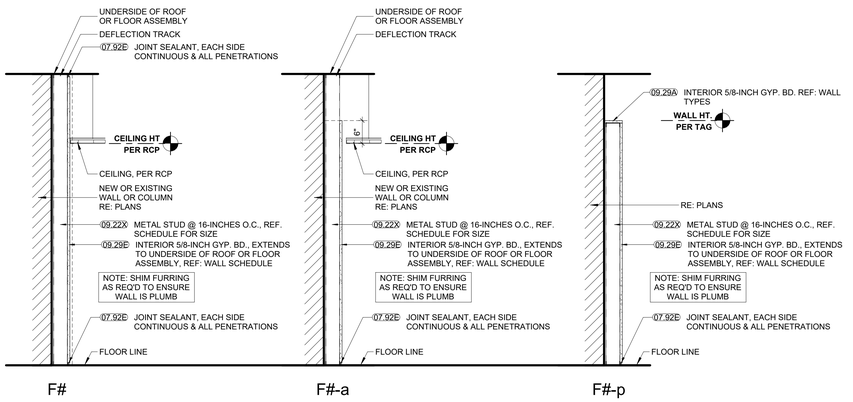
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GRID GEOMETRY PLAN

A1 MAIN LEVEL GRID GEOMETRY PLAN
1/8" = 1'-0"

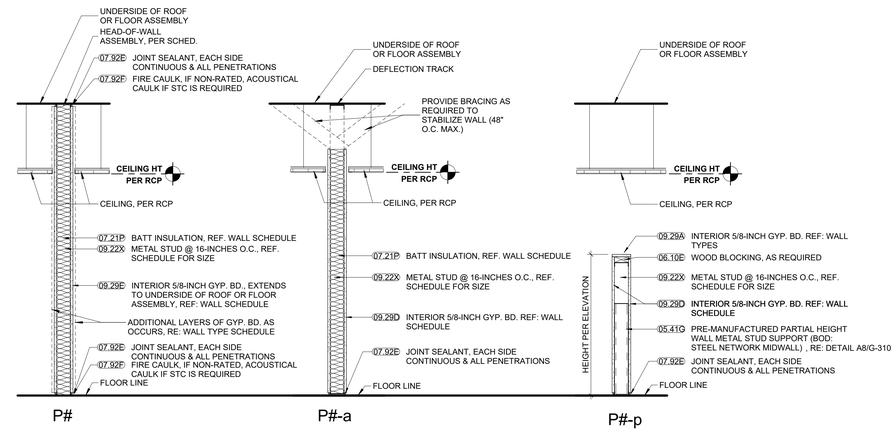
NORTH

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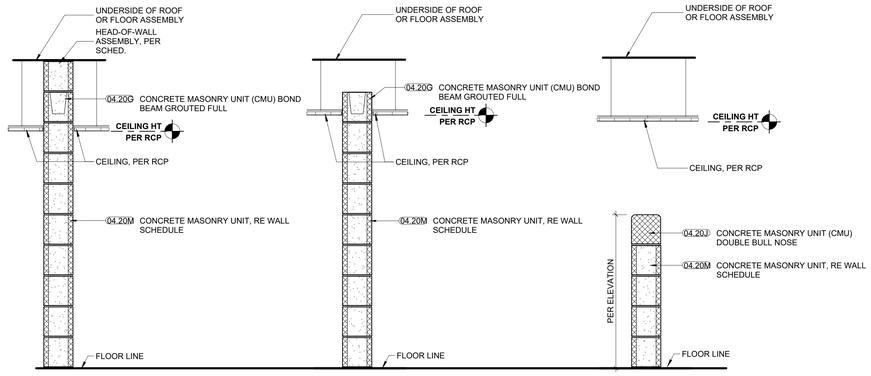
F = FURRING PARTITION TYPE

MARK	TOTAL THICKNESS	STUD SIZE	FIRE RATING (HR) OR EXTENTS	MODIFIER	GYPSUM_BOARD	INSULATION THICKNESS
F0-a	1 1/2"	7/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	-
F1-a	2 1/4"	1 5/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	-
F1-av	2 7/8"	1 5/8"	a = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	1 LAYER OF 5/8", ONE SIDE	-
F3	4 1/4"	3 5/8"	-	-	1 LAYER OF 5/8", ONE SIDE	3 1/2"
F3-a	4 1/4"	3 5/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	3 1/2"
F3-av	4 7/8"	3 5/8"	a = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	1 LAYER OF 5/8", ONE SIDE	3 1/2"
F3-p	4 1/4"	3 5/8"	p = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	-	1 LAYER OF 5/8", ONE SIDE	-
F6	6 5/8"	6"	-	-	1 LAYER OF 5/8", ONE SIDE	6"
F6-a	6 5/8"	6"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	6"



P = PARTITION TYPE

MARK	TOTAL THICKNESS	STUD SIZE	FIRE RATING (HR) OR EXTENTS	MODIFIER	GYP BOARD	INSULATION THICKNESS	UL #
P3	4 7/8"	3 5/8"	-	-	1 LAYER OF 5/8", BOTH SIDES	3 1/2"	
P3-a	4 7/8"	3 5/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", BOTH SIDES	3 1/2"	
P3-b	5 3/8"	3 5/8"	-	b = BALLISTIC RATED LEVEL III	1 LAYER OF 5/8", BOTH SIDES	3 1/2"	
P3-p	4 7/8"	3 5/8"	p = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	-	1 LAYER OF 5/8", BOTH SIDES	-	
P3-v	5 1/2"	3 5/8"	-	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	2 LAYERS 5/8 ONE SIDE, 1 LAYER 5/8 ONE SIDE	3 1/2"	
P6	7 1/4"	6"	-	-	1 LAYER OF 5/8", BOTH SIDES	6"	
P6-a	7 1/4"	6"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", BOTH SIDES	6"	
P6-v	7 7/8"	6"	-	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	2 LAYERS 5/8 ONE SIDE, 1 LAYER 5/8 ONE SIDE	6"	
P8	9 1/4"	8"	-	-	1 LAYER OF 5/8", BOTH SIDES	6"	



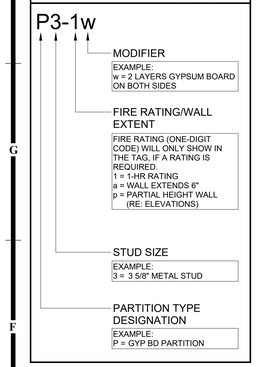
M = MASONRY PARTITION TYPE

MARK	TOTAL THICKNESS	FIRE RATING (HR) OR EXTENTS	MODIFIER	UL #
M8	7 5/8"	-	-	
M8-1	7 5/8"	1 HOUR	-	U905
M8-2	7 5/8"	2 HOUR	-	U905

MATERIAL KEYNOTES

04.20G	CONCRETE MASONRY UNIT (CMU) BOND BEAM GROUTED FULL
04.20J	CONCRETE MASONRY UNIT (CMU) DOUBLE BULL NOSE
04.20M	CONCRETE MASONRY UNIT, RE WALL SCHEDULE
05.41G	PRE-MANUFACTURED PARTIAL HEIGHT WALL METAL STUD SUPPORT (BOD: STEEL NETWORK MIDWALL)
06.10E	WOOD BLOCKING, AS REQUIRED
07.21P	BATT INSULATION, REF. WALL SCHEDULE
07.92E	JOINT SEALANT, EACH SIDE CONTINUOUS & ALL PENETRATIONS
07.92F	FIRE CAULK, IF NON-RATED, ACOUSTICAL CAULK IF STC IS REQUIRED
09.22X	METAL STUD @ 16-INCHES O.C., REF. SCHEDULE FOR SIZE
09.29A	INTERIOR 5/8-INCH GYP. BD. REF: WALL TYPES
09.29D	INTERIOR 5/8-INCH GYP. BD. REF: WALL SCHEDULE
09.29E	INTERIOR 5/8-INCH GYP. BD., EXTENDS TO UNDERSIDE OF ROOF OR FLOOR ASSEMBLY, REF: WALL SCHEDULE

PARTITION TYPE LEGEND:



GENERAL WALL TYPE NOTES:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: LIFE SAFETY PLAN(S) FOR RATED WALL LOCATIONS.
3. RE: WALL TYPE DETAIL SHEET FOR TYPICAL WALL DETAILS, HEAD-OF-WALL DETAILS, AND ADDITIONAL WALL TYPE INFORMATION.
4. COORDINATE METAL STUD GAUGE WITH PRE-APPROVED EQUIPMENT ANCHORAGE. WHERE A DISCREPANCY OCCURS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
5. WHERE "ACOUSTIC SEALANT" IS INDICATED ON WALL TYPES: PROVIDE ACOUSTIC (SOUND) SEALANT ABOVE TOP TRACK, UNDER BOTTOM TRACK, AND AT ALL PENETRATIONS (BOTH SIDES).
6. WHERE "FIRE CAULK" IS INDICATED ON WALL TYPES: PROVIDE FIRE-RATED SEALANT ABOVE TOP TRACK, UNDER BOTTOM TRACK, AT ALL PENETRATIONS (BOTH SIDES), AND AS REQUIRED BY FIRE RATING UL NUMBER.
7. EXTEND FIRE-RATED WALL CONSTRUCTION BEHIND NON-RATED RECESSED OR BUILT-IN EQUIPMENT; SUCH AS FIRE EXTINGUISHER CABINETS (FEC), ELECTRICAL WATER COOLERS (EWC), ELECTRICAL PANELS, ETC., UNLESS NOTED OTHERWISE. REFER TO THE 5-SIDED BOX DETAIL ON THE WALL TYPE DETAILS SHEET.
8. PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR LABORATORY EQUIPMENT.
9. WHERE HVAC OR OTHER MECHANICAL, ELECTRICAL AND PLUMBING ITEMS PENETRATE PARTITIONS: STUDS SHALL BE BRACED AND FRAMED TO STRUCTURE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT. ALL PENETRATIONS THROUGH ACOUSTICAL AND FIRE RATED WALLS SHALL BE SEALED TO PROVIDE FIRE, SMOKE, AND/OR ACOUSTICAL ISOLATION OF SPACES WITH APPROPRIATE ACOUSTICAL/ FIRESTOP MATERIAL.
10. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE, OR OTHER OUTLETS, EXCEPT WHERE SPECIFICALLY SHOWN.
11. WALL BASE IS NOT SHOWN ON ALL WALL TYPES FOR CLARITY. REFER TO FINISH SCHEDULE.
12. PROVIDE MOISTURE AND MOLD RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.
13. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE HELD AT 5/8 INCH BELOW STRUCTURE, UNLESS NOTED OR SHOWN OTHERWISE.
14. PROVIDE MOISTURE AND MOLD RESISTANT GYPSUM BOARD AT THE INTERIOR SIDE OF ALL EXTERIOR WALLS.
15. STC AND STC TEST NUMBERS ASSUME 20 GA STUDS AT 16" O.C. AT COLD FORMED METAL FRAMING. WOOD FRAMING IS ALSO ASSUMED TO BE AT 16"O.C. CMU TEST REPORTS ASSUME HOLLOW UNITS (NO GROUT OR SAND).

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4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
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2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

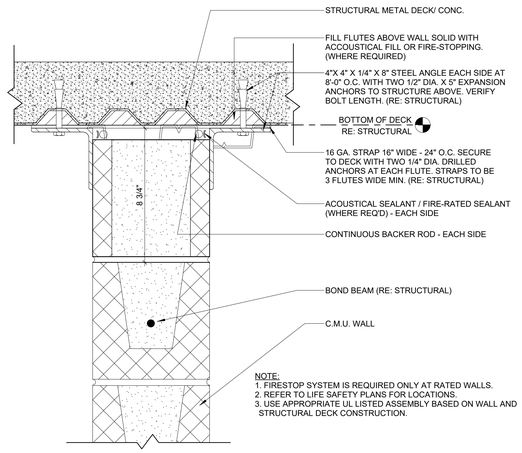
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CHRISTOPHER KRUMREI
NUMBER A-2016013211
ARCHITECT

PROFESSIONAL SEAL

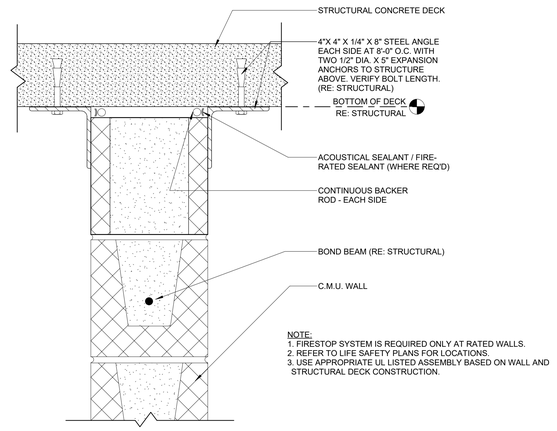
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ISSUE DATE: NOVEMBER 1, 2024
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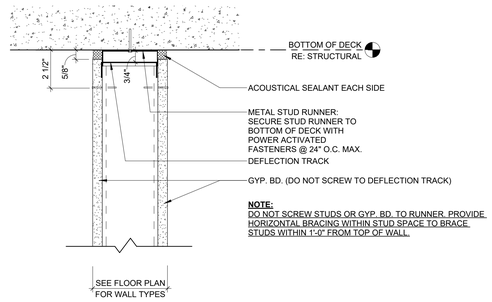
PARTITION TYPES



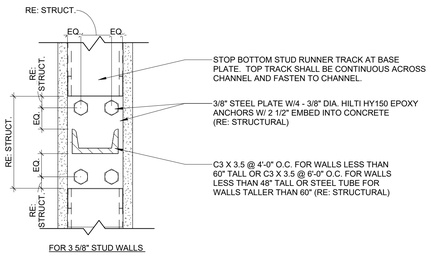
E8 TOP OF MASONRY WALL AT METAL DECK.
3" = 1'-0"



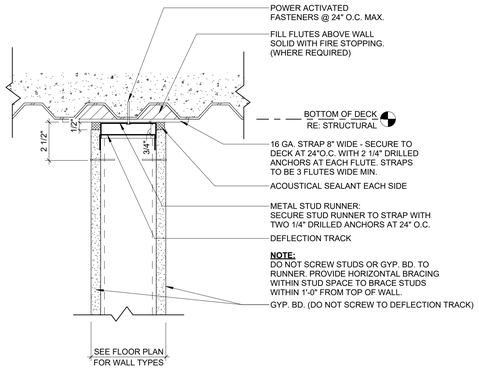
E5 TOP OF MASONRY WALL AT CONCRETE DECK
3" = 1'-0"



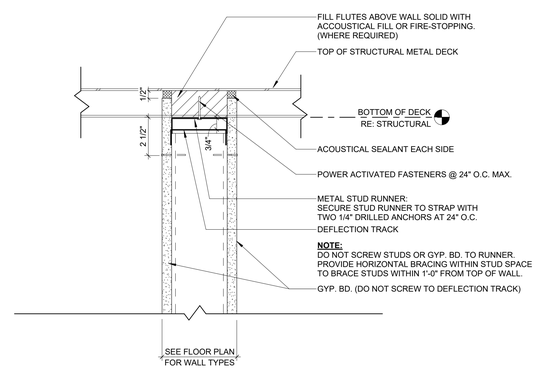
E1 HEAD OF STUD WALL AT CONC. DECK
3" = 1'-0"



A8 BASE PLATE & ANCHORAGE PLAN DTLS. @ WALL TYPE "F"
3" = 1'-0"



A5 TOP OF WALL - PARALLEL TO METAL DECK
3" = 1'-0"



A1 TOP OF WALL - PERP. TO METAL DECK
3" = 1'-0"

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PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

STATE OF MISSOURI
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A-2016011211
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G-310

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

PARTITION TYPE DETAILS

Design No. U905

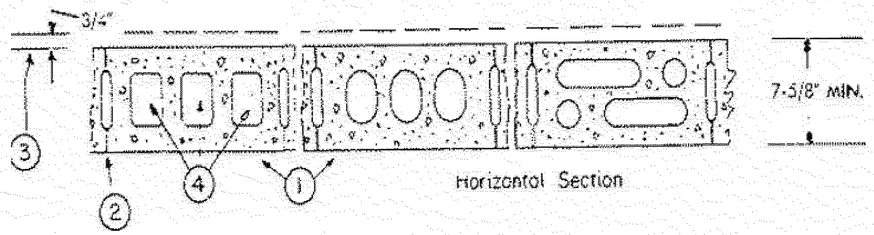
November 09, 2020

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units* —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-11-09

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4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
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PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016012111
ARCHITECT

PROFESSIONAL SEAL

G-311

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

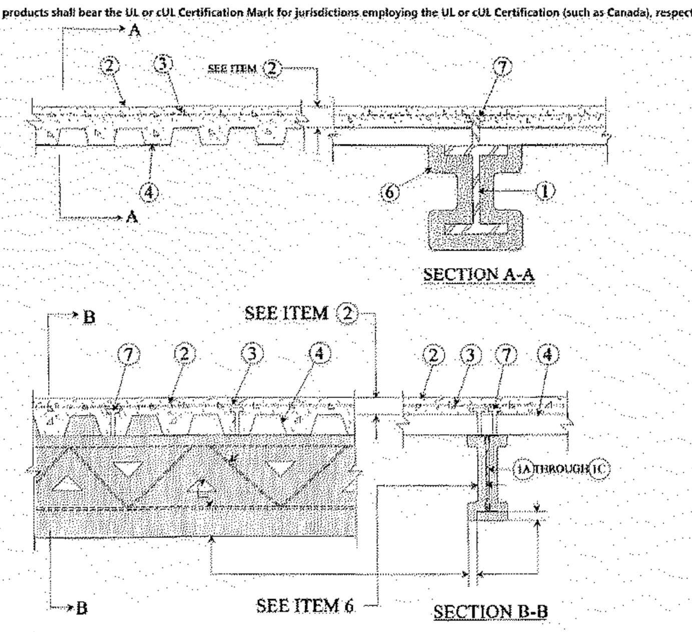
UL LISTINGS

Design No. D902

November 2, 2021

Restrained Assembly Ratings — 1, 1-1/2, 2 and 3 Hr.
Unrestrained Assembly Ratings — 0, 1, 1-1/2, 2 or 3 Hr. (See Items 4 & 6)
Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



D902 CONTINUED

D902 CONTINUED

D902 CONTINUED

Allowable Spray-Applied Fiber Insulation Thickness Over Beam

Installed SFRM Thickness (in.) on Beam	SFRM Density (pcf)						
	13	15	17.5	22	22 (Type HP)	44	47
5/16	5	5	5	5	5	5	5
3/8	5	5	5	5	5	5	5
7/16	5	5	5	5	5	5	5
1/2	5	5	5	5	5	5	5
9/16	5	5	5	5	5	5	5
5/8	5	5	5	5	5	5	5
11/16	5	5	5	5	5	5	5
3/4	5	5	5	5	5	5	5
13/16	5	5	5	5	5	5	5
15/16	5	5	5	5	5	5	5
1	5	4-11/16	5	5	5	5	5
1-1/16	5	4-3/8	5	5	5	5	5
1-1/8	5	4	4-11/16	5	5	5	5
1-3/16	5	3-11/16	4-5/16	5	5	5	5
1-5/16	4-5/8	3	3-1/2	4-7/16	5	5	5
1-7/16	4-1/16	2-3/8	2-3/4	3-7/16	5	5	5
1-9/16	3-1/2	1-11/16	1-15/16	2-7/16	5	4-15/16	5
1-5/8	3-3/16	1-5/16	1-9/16	1-15/16	5	3-15/16	4-3/16
1-3/4	2-5/8	11/16	13/16	1	4-7/16	1-15/16	2-1/8
1-7/8	2-1/16	0	0	0	3-7/16	0	0
2-1/4	5/16	0	0	0	1/2	0	0
2-5/16	0	0	0	0	0	0	0

Allowable Spray-Applied Fiber Insulation Thickness Over Joist

Installed SFRM Thickness (in.) on Joist	SFRM Density (pcf)					
	13	15	22	22 (Type HP)	44	47
9/16	5	5	5	5	5	5
13/16	5	5	5	5	5	5
1	5	5	5	5	5	5
1-1/8	5	5	5	5	5	5

2-1/16	5	1	1-1/2	5	5	5
2-1/4	5	0	0	5	5	5
3-1/4	2-1/16	0	0	3-7/16	0	0

Allowable Spray-Applied Fiber Insulation Thickness Over Beam

Allowable Spray-Applied Fiber Insulation Thickness Over Joist

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SUITE 1400
KANSAS CITY, MO 64112
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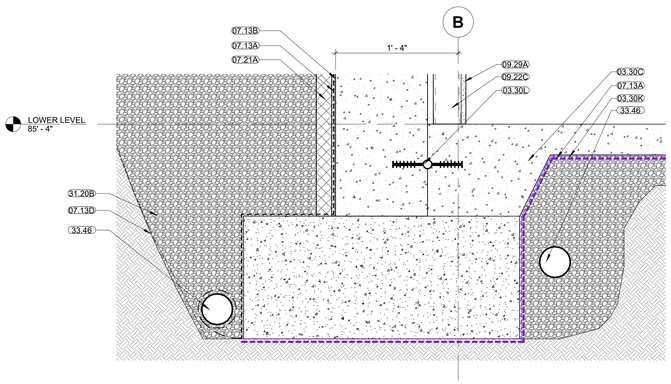
UL LISTINGS

ALTERNATE #1 DOOR SCHEDULE

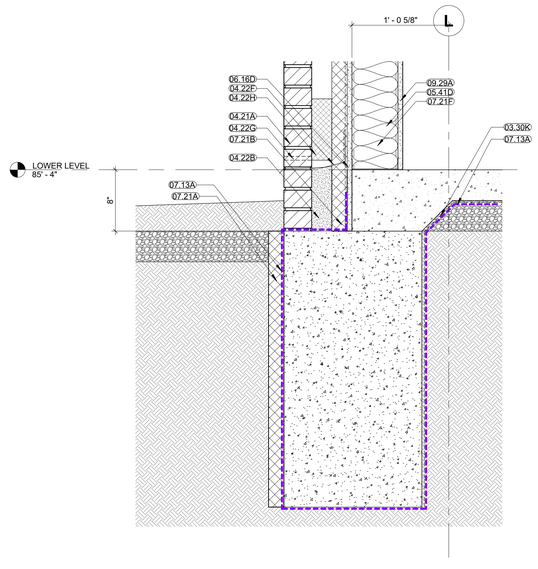
DOOR #	ROOM: NAME	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	AAOS Project HW Set	HEAD	JAMB	REMARKS
020	WATER	3' - 0"	7' - 0"	HM	F	HM	F1		20.0	J12 / A-601	J10 / A-601	
021	ELEC.	3' - 0"	7' - 0"	HM	F	HM	F1		24.0	J12 / A-601	J10 / A-601	
022	MEDIA	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
023	COMM STOR.	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
039B	GENERAL STORAGE	3' - 0"	7' - 0"	HM	F	HM	F1		18.0	J12 / A-601	J10 / A-601	
039C	GENERAL STORAGE	3' - 0"	7' - 0"	HM	F	HM	F1		18.0	J12 / A-601	J10 / A-601	
040	ELEC.	3' - 0"	7' - 0"	HM	F	HM	F1		22.0	J12 / A-601	J10 / A-601	
042A	LOADING DOCK	3' - 0"	8' - 0"	HM	DF	HM	F2		25.0	J9 / A-601	J7 / A-601	
048	988	3' - 0"	7' - 0"	WD	F	HM	F1		27.0	J12 / A-601	J10 / A-601	
106	STORAGE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
110	BC - PREV	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
111	AC - PREV	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
112	MEDICAL DIR.	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
113	AC - EMS	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
114	ADMIN DIV. CONF.	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
115	DC - ADMIN	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
116	OPEN OFFICE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
121	CHIEF	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
124	PR-FUTURE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
125	ADMIN MGR	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
126	BC - TRAIN-FUTURE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
127	AC - TRAIN	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
128	OPP. DIV CONF	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
129	DC - OPP	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
134	ROOF	3' - 0"	7' - 0"	WD	F	HM	F1		19.0	J12 / A-601	J10 / A-601	
141	STORAGE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
142	CONFERENCE	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
143	CONFERENCE	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
144	PLANNER	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
145	AC - EMERG MGMT	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
149	JAN	3' - 0"	7' - 0"	WD	F	HM	F1		22.0	J12 / A-601	J10 / A-601	
153	STORAGE	3' - 0"	7' - 0"	WD	F	HM	F1		20.0	J12 / A-601	J10 / A-601	
156	STOR.	3' - 0"	7' - 0"	WD	DF	HM	F1		26.0	J12 / A-601	J10 / A-601	
157	MECH.	3' - 0"	7' - 0"	HM	F	HM	F1		22.0	J12 / A-601	J10 / A-601	

ALTERNATES LEGEND

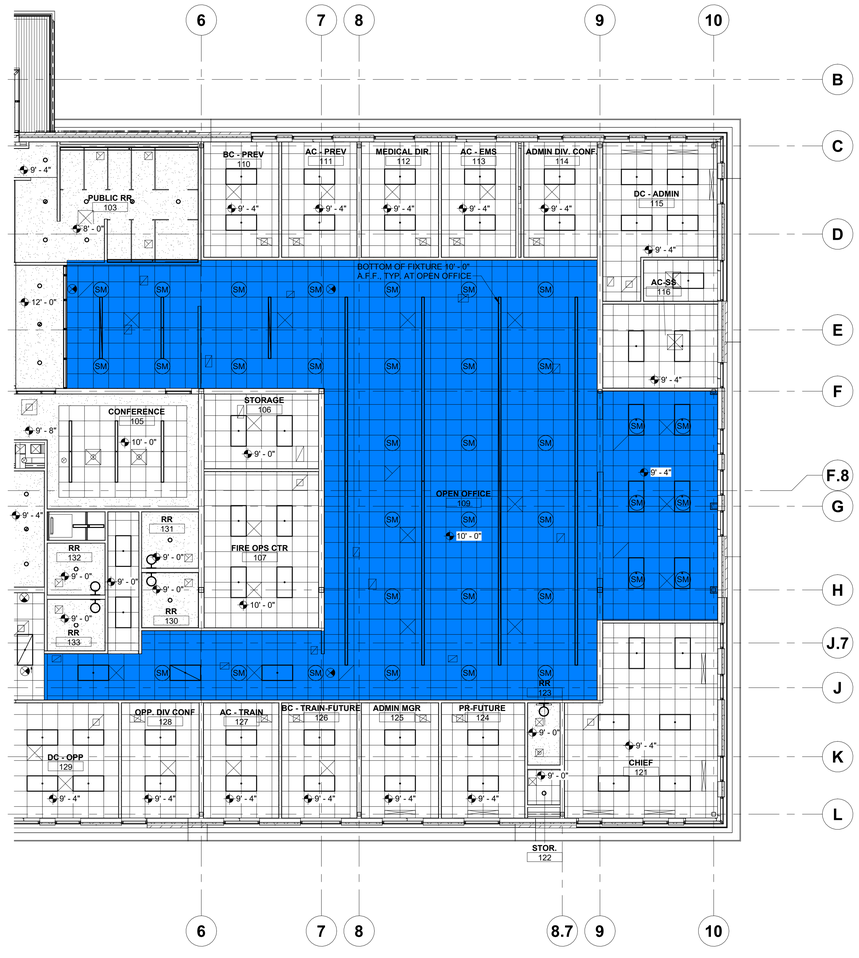
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1	REFERENCE NOTES FOR ADDED CARD READER IN HARDWARE SETS 17.0, 18.0, 19.0, 20.0, 22.0, 24.0, 25.0, 26.0, 27.0 FOR DOORS SHOWN IN ALTERNATE #1 DOOR SCHEDULE
2	PROVIDE VEHICLE BUILDING RE-SHEETS A-104 AND A-105
3	PROVIDE SOUND MASKING IN OPEN OFFICE 109. RE A1/G-411 FOR LOCATIONS.
4	ADD PRINT #51777, COLOR V908 ON SURFACE #2 TO ALL GLASS IN WINDOW TYPES A1, A2, B1, B2, C1, C2, C3, C4, C5, C6, C7, AND C8
5	ADD UNDER SLAB WATERPROOFING TO LOWER LEVEL FOUNDATIONS AND SLAB ON GRADE. RE A7/G-411 AND E7/G-411.



E7 FOUNDATION SECTION @CONCRETE WALL - ALTERNATE #5
1 1/2" = 1'-0"



A7 FOUNDATION SECTION @ METAL STUD - ALTERNATE #5
1 1/2" = 1'-0"



A1 ALTERNATE #3 RCP
1/8" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016012111
11/1/24
ARCHITECT

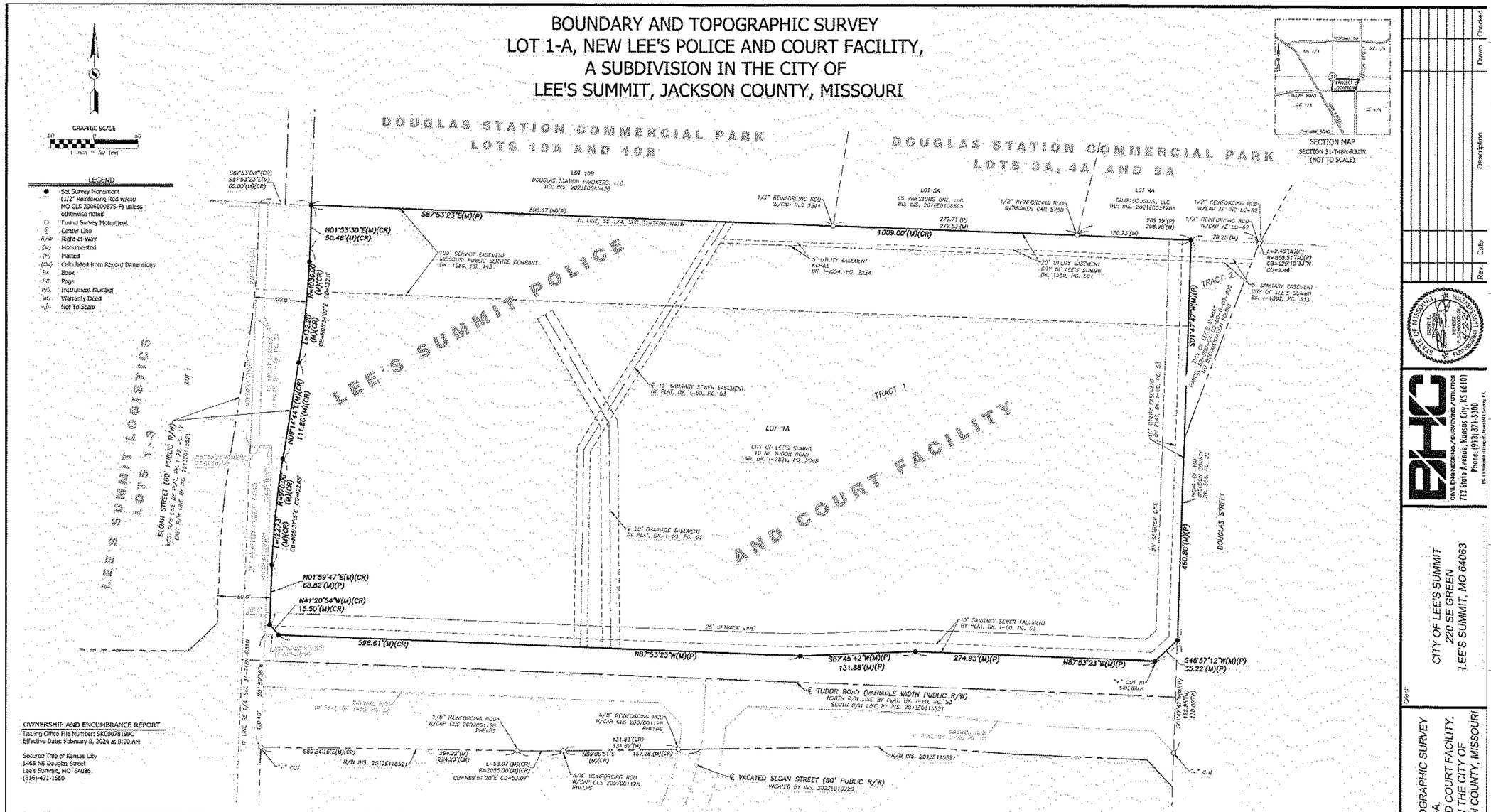
PROFESSIONAL SEAL

G-411

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

ALTERNATES

BOUNDARY AND TOPOGRAPHIC SURVEY
LOT 1-A, NEW LEE'S POLICE AND COURT FACILITY, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



SECTION MAP
SECTION 31-T48N-R31W
(NOT TO SCALE)

OWNERSHIP AND ENCUMBRANCE REPORT

Issuing Office File Number: SKC00781996
Effective Date: February 9, 2024 at 8:00 AM

Secured Title of Kansas City
1465 NE Douglas Street
Lee's Summit, MO 64086
(816)-471-1560

OWNERSHIP AND ENCUMBRANCE REPORT DESCRIPTION

TRACT 1:
Lot 1-A, NEW LEE'S POLICE AND COURT FACILITY, a subdivision in Lee's Summit, Jackson County, Missouri

TRACT 2:
All that part of the Southeast Quarter of Section 31, Township 48, Range 31, described as follows: Beginning at a point 1450 feet west of the northeast corner of the southeast quarter of said Section 31; thence west 75 feet, more or less to the northeast corner of Lot 1, SUMMIT PARK, a subdivision in Lee's Summit, as recorded in Plat Book 8, at Page 38, at the Recorder's Office of said County; thence south along the east line of said Lot 1, 230 feet more or less to the intersection with the westerly right of way line of County Highway 10-E, aka N. Douglas Street; thence northeasterly along said westerly right of way line to the Point of Beginning.

(Legal description for TRACT 2 is shown for convenience only)

GENERAL NOTES

1. Basis of Bearings: South 87° 53' 23" East along the North line of Lot 1A, LEE'S SUMMIT POLICE AND COURT FACILITY as shown on the recorded plat of LEE'S SUMMIT POLICE AND COURT FACILITY.
2. This survey is based on field work completed on or before the date shown in the title block or the following survey or plats:
   -An ALTA/NSPS survey performed by PHELPS ENGINEERING, INC. on April 27, 2022 as project number 220231
   -The plat of "SUMMIT PARK" recorded June 23, 1914 and filed as Instrument Number 19140096399 in Book 6, Page 38.
   -The plat of "LEE'S SUMMIT POLICE AND COURT FACILITY" recorded April 10, 1997 and filed as Instrument Number 1997120462 in Book I-60, Page 53
   -The plat of "DOUGLAS STATION COMMERCIAL PARK, LOTS 3A, 4A, AND 5A" recorded January 21, 2003 and filed as Instrument Number 2003I0007666 in Book 174, Page 55.
   -The plat of "DOUGLAS CORNER, 2ND PLAT" recorded July 25, 2006 and filed as Instrument Number E0063942 in Book 198, Page 1.
   -The plat of "DOUGLAS STATION COMMERCIAL PARK, LOTS 10A, AND 10B" recorded August 14, 2008 and filed as Instrument Number 2008E0087576 in Book 122, Page 17.
   -The plat of "LEE'S SUMMIT LOGISTICS LOTS 1-3" recorded March 22, 2022, and filed as Instrument Number 2022E0027423 in Book 199, Page 92.
3. This Tract contains 504,419 square feet or 11.5799 acres.
4. Accuracy standard of this survey: Urban.

SURVEYOR'S NOTES

1. This surveyor has made no search at the county Register of Deeds office or searched court documents for easements, vacations, Right-of-Way acquisitions, condemnations, court decrees or encumbrances that may affect this property. The aforementioned items shown hereon are based entirely upon the ownership and encumbrance report cited above, by documents found in this firms possession, documents obtained from other sources, or other information. If any other easements, vacations, Right-of-Way acquisitions, condemnations, court decrees or encumbrances affect this property their existence is unknown to this surveyor and are therefore not shown.

SURVEYOR'S STATEMENT

This survey was executed in accordance with the Missouri STANDARDS FOR PROPERTY BOUNDARY SURVEYS as set forth in Chapter 16 of the Rules of Department of Insurance, Financial Institutions and Professional Registration, Division 2030 - Missouri Board for Professional Land Surveyors.
(See Title Block for date, seal and signature.)

BHC, MO CLS 2006009875-F
Brent E. Thompson, PLS - 2006060161

Rev.	Date	Description	Drawn	Checked

BHC
CIVIL ENGINEERING / SURVEYING / UTILITIES
712 State Avenue, Kansas City, KS 66101
Phone: (913) 371-5300

Client:
CITY OF LEE'S SUMMIT
220 SE GREEN
LEE'S SUMMIT, MO 64063

Project:
BOUNDARY AND TOPOGRAPHIC SURVEY
LOT 1-A,
NEW LEE'S POLICE AND COURT FACILITY,
A SUBDIVISION IN THE CITY OF
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Project No:	047470
Field Crew:	ZL,TH
Field Date:	2024/03/13
Drawn By:	SJW
Issue Date:	2024/04/02
Sheet:	1 OF 7

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4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

INTERIM REVIEW ONLY
(Document Incomplete)
Not to be used for regulatory approval, permit, or construction.

Architect Of Record:
Hoefer Welker

PROFESSIONAL SEAL

V1.0

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

BOUNDARY AND TOPGRAPHIC SURVEY

LEGEND

Proposed Line Types and Symbols shown. Existing Line Types and Symbols shall be the same, but screened, unless designated otherwise by the inclusion of a survey by others.

●	Set Survey Monument	STM	Storm Sewer Line
◉	Set Survey Monument (in concrete)	STM	Storm Sewer Manhole
			Curb Inlet
○	Found Survey Monument		Field Inlet
⊠	Found Survey Monument in Box		Junction Box
(O.I.U.)	Origin Unknown		Grate Inlet
	Found Right-of-Way Marker		Grate Inlet (Round/Domed)
	Control Point		End Section
	Benchmark		Headwall
■	Set Hub	DS	Down Spout
		RD	Roof Drain
OHC	Overhead Utility Line(s)	CMP	Corrugated Metal Pipe
	Underground Electric Line Marker	CMAP	Corrugated Metal Arch Pipe
UGE	Underground Electric Line	CPP	Corrugated Plastic Pipe
KCP&L	Underground KCP&L Line (e.g.)	HDPE	High Density Polyethylene Pipe
	Utility Pole	RCP	Reinforced Concrete Pipe
	Utility Pole with Transformer	RCAP	Reinforced Concrete Arch Pipe
	Guy Anchor	RCB	Reinforced Concrete Box
	Utility Pole w/Light & arm	FES	Flared End Section
	Street Light Pole w/ arm		Pipe Continues-Outlet or Source Not Found or Not Surveyed
	Street Light Pole (14')		
EPA	Electric Pedestal (above ground)		
EM	Electric Meter		Wood Fence
EV	Electric Access Vault (underground)		Chain Link Fence
EB	Electric Access Box (mounted)		Wire Fence (with or without barb)
E	Electric Manhole		Barbed Wire Fence
	Electric Pull Box (underground)		Plastic Fence
	Transformer (pad mounted)		Iron or Metal Fence
	Yard Light		Gate Post
AC	Air Conditioner Unit		Retaining Wall
W	Water Line		Single Pole Sign
WS	Water Service Line		Single Pole Sign
UW	Underground Water Line Marker		Double Pole Sign
	Water Valve		
	Fire Hydrant		Railroad Crossing Gate
	Fire Hydrant Assembly		
WM	Water Meter		Railroad Switch Machine
W	Water Manhole		Railroad Tracks
WV	Water Vault (underground)		
SCI	Sprinkler Control Box		Wheel Stop
	Sprinkler Head		ADA Parking Stall
	Yard Hydrant		ADA Detection Warning Pad
BFV	Backflow Valve (BFV)		
BFP	Backflow Preventer (BFP)		Bush
BO	Blow-Off Assembly		
			Deciduous Tree and Size (Scaled for Size)
GAS	Gas Line		
GS	Gas Service Line		Coniferous Tree and Size (Scaled for Size)
SPIRE	Underground Spire Line (e.g.)		
	Underground Gas Line Marker		
G	Gas Manhole or Access Lid		Tree Stump
	Gas Valve		Foliage Drip Line/Edge of Timber
RG	Regulator Unit		Hedge
GM	Gas Meter		
	Casing Vent	℄	Center Line
	Underground Pipe Line (High Capacity)	PL	Property Line
	Underground Pipe Line Marker	R/W	Right-of-Way Line
		R=	Radius
UGT	Underground Telephone Line	L=	Arc Length
ATT	Underground AT&T Line (e.g)	CB	Chord Bearing
	Underground Telephone Line Marker	CD	Chord Distance
T	Telephone Pedestal (above ground)	Δ	Interior Angle (Delta)
T	Telephone Manhole	I.T.B.	Initial Tangent Bearing
TA	Telephone Access Vault (underground)	R/W	Right-of-Way
TB	Telephone Access Box (mounted)	(M)	Monumented
FO	Underground Fiber Optic Line	(m)	Measured
	Underground Fiber Optic Line Marker	(D)	Deeded
F	Fiber Optic Pedestal	(P)	Platted
F	Fiber Optic Manhole	(C)	Calculated
FV	Fiber Optic Vault (underground)	(CR)	Calculated from Record Dimensions
FV	Fiber Optic Pedestal on top of Vault	(CM)	Calculated from Found Monuments
		(PR)	Proportioned
[36"]	Traffic Signal Post w/ Mast Arm	BK.	Book
	Pedestrian Signal Pole	PG.	Page
TC	Traffic Control Manhole	DOC.	Document Number
TC	Traffic Control Cabinet	INS.	Instrument Number
TCV	Traffic Control Vault (underground)	VOL.	Volume
		ESMT.	Easement
UCTV	Underground Cable TV Line	B/L	Building Setback Line
SPC	Underground Spectrum Line (e.g.)	U/E	Utility Easement
	Underground Cable TV Marker	D/E	Drainage Easement
TV	Cable TV Pedestal (above ground)	ST/E	Storm Sewer Easement
		S/E	Sanitary Sewer Easement
	Manhole-Unknown Purpose	IE/E	Ingress/Egress Easement
GT	Grease Trap Access Lid	TC/E	Temporary Construction Easement
MW	Monitoring Well	SQ. FT.	Square Feet
BH	Bore Hole	AC	Acres
	Fill Lid (for Underground Tank)	CY	Cubic Yard
SAN	Sanitary Sewer Line	LF	Linear Feet
SS	Sanitary Sewer Service Line	CO.	Company
S	Sanitary Sewer Manhole	L/S	Landscaping (Bushes, Trees, Flowers, Border, Mulch, any or all of them)
	Clean-out		
VCP	Vitrified Clay Pipe	ASPH	Asphalt
DIP	Ductile Iron Pipe	CONC	Concrete
PVC	Polyvinyl Chloride Pipe	COR	Corner
CIP	Cast Iron Pipe	R.WALL	Retaining Wall
		STA.	Station
	Underground Utility Line Marker	Lt	Left
	Metal Guard Rail or Handrail	Rt	Right
	Flag Pole	PI	Point of Intersection
	Satellite Dish	PC	Point of Curve
	Mailbox	PT	Point of Tangent
	Concrete or Metal Bollard		Not To Scale
	Wood Bollard or Wood Post	NTS	Not To Scale

LEGAL DESCRIPTION

Lot 1-A, NEW LEE'S POLICE AND COURT FACIMTY, a subdivision in Lee's Summit, Jackson County, Missouri

TRACT 2:
All that part of the Southeast Quarter of Section 31, Township 48, Range 31, described as follows: Beginning at a point 1450 feet west of the northeast corner of the southeast quarter of said Section 31; thence west 75 feet, more or less to the northeast corner of Lot 1, SUMMIT PARK, a subdivision in Lee's Summit, as recorded in Plat Book 6, at Page 38, at the Recorder's Office of said County; thence south along the east line of said Lot 1, 230 feet more or less to the intersection with the westerly right of way line of County Highway 10-E, aka N. Douglas Street; thence northeasterly along said westerly right of way line to the Point of Beginning.

(Legal description for TRACT 2 is shown for convenience only)

GENERAL NOTES

1. All work in public easement and Right-of-Way shall be installed per the requirements and specifications of the City of Lee's Summit, Missouri.
2. All existing topographic, survey, and utility information shown was provided to BHC in the form of an Topographic Survey prepared by BHC and dated April 2, 2024. BHC makes no guaranties as to the accuracy of the existing information shown hereon. Contractors shall satisfy themselves as to the existing conditions of the site and have all utilities located prior to commencing construction.
3. The Contractor shall be required to obtain all Federal, State, and Local permits required for this project prior to commencing construction.
4. Any work adjacent to or crossing existing streets requires proper traffic control devices. Traffic control devices shall be placed in accordance with the Manual of Uniform Traffic Control Devices (MUTCD).
5. The contractor shall be required to demolish, remove and dispose of all existing structures, pavements, and features necessary to construct the improvements shown hereon. Any waste materials generated during construction shall be removed from the site by the Contractor and disposed of in accordance with all local, State, and Federal regulations governing such disposal.
6. The contractor shall prevent any trash, debris, or liquid wastes from being disposed of in sanitary sewers, storm sewers, or open drainage systems.
7. The Contractor shall be solely responsible to protect adjacent property, structures, and other improvements from damage during construction. In the event of damage to adjacent property, structures, or improvements, the contractor shall repair or replace such damage to the Owners's satisfaction at the Contractor's expense.
8. Contractors at the site shall be solely responsible for jobsite safety for all aspects of work shown hereon.
9. All work and materials used in the construction of the improvements shown hereon shall comply with all referenced standards, specifications, and plan notes.
10. All buildings are shown as a reference only. All buildings shall be located and constructed per the Architectural drawings prepared by others.
11. Contractor shall be responsible for contacting all utility companies for field locations of underground utilities affected by the contract. All existing utilities indicated on these plans are according to the best information available to the engineer; however, all utilities actually existing may not be shown. Utilities damaged through the negligence of the contractor to obtain the location of same shall be repaired or replaced at the expense of the contractor.
12. Coordinate with facility representative as to when construction activities may be performed to work with the operations of the facility.
13. Any and all hazards shall be properly identified and barricaded from access during all non-construction periods.
14. Unless specified otherwise, all construction shall meet the requirements of the Missouri Department of Transportation (MoDOT) Standard Specifications, except as modified by these plans.
15. Third party inspection of the storm sewer is required, after inspection, provide documentation to the City of Lee's Summit, Missouri.
16. Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the City of Lee's Summit, Missouri with reports and documentation.
17. A Right-of-Way permit is required from the City of Lee's Summit, Missouri Public Works Department for any work within the public right-of-way.



SECTION MAP
SECTION 31-T48N-R31W
(NOT TO SCALE)

PROJECT CONTROL TABLE
(NAD83 MISSOURI STATE PLANE, WEST ZONE, US SURVEY FOOT)

POINT NO.	CONTROL POINT/ BENCHMARK DESCRIPTION	NORTHING COORDINATE	EASTING COORDINATE	ELEV.
1	CP1 /IB4 WITH CP CAP	1006378.56	2822886.48	1029.44'
2	CP2 /CUT PLUS BACK OF WALK	1006378.62	2821916.33	1011.43'
3	CP3 /CHISEL PLUS ON W. EDGE OF WALK	1006849.13	2821878.06	1010.62'
4	CP4 /IB4 WITH CP CAP	1006865.95	2823140.23	1023.26'
5	CP5 /IB4 W CP CAP	1006971.51	2822049.11	1009.85'
10	CP0 /IB4 WITH CP CAP	1006274.88	2823059.46	1031.60'

BENCHMARKS (NAVD88 Datum)

BM1 Chiseled square on the North face of a grate inlet, located on the South side of Tudor Road, approximately 425 feet East of the intersection of Tudor Road and Sloan Street.

Elevation: 1015.01

BM2 Chiseled square on the Northwest corner of a pedestrian crossing signal, located on the Southwest corner of the intersection of Tudor Road and Douglas Street.

Elevation: 1031.01

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SUITE 1400
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Overland Park, Kansas 66210
p. (913) 663-1900
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:
01 ADDENDUM 01 2024-10-30

STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C0.1

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

GENERAL INFORMATION

DEMOLITION GENERAL NOTES

1. Contractor shall verify the location, size, material and depth of all utilities prior to any excavation or construction activity.
2. All materials shall be removed and disposed of off-site. It is the contractors responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
3. The contractor shall ensure that any structures to remain which are damaged during demolition operations shall be repaired to meet current code, at no additional cost to the owner.
4. The contractor shall remove any and all existing debris which is encountered from the existing site. This shall include, but shall not be limited to, footings, concrete slabs, conduits, granular subgrade, utility services, and/or unsuitable structural fill material as determined by the owner's engineer. The cost for these removals shall be considered incidental to the project. Said debris shall become property of the contractor and it shall be the responsibility of the contractor to dispose of properly off-site.
5. It shall be the contractor's responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
6. The contractor shall be responsible for obtaining and payment of any permits for demolition that pertain to this project.
7. All protection fencing shall be installed prior to demolition/construction activity. The contractor shall provide a 6-foot security fence around the entire job site with locked gated access points, if required by the owner or the City.
8. All existing utilities removed during construction shall have their trenches backfilled with structural fill and be compacted to the requirements for structural fill.
9. All removals required to properly perform the work (whether shown on the plans or not) shall be performed by the contractor at no additional cost to the owner.

DEMOLITION NOTES

01 *SAW CUT EXISTING PAVEMENT TO FULL DEPTH AND CLEAN EDGE.*

02 *REMOVE & DISPOSE OF EXISTING ASPHALT.*

03 *REMOVE & DISPOSE OF EXISTING CURB AND GUTTER.*

04 *REMOVE & DISPOSE OF ASPHALT TRAIL.*

05 *REMOVE & DISPOSE OF EXISTING SHED.*

06 *REMOVE & DISPOSE OF EXISTING CHAIN LINK FENCE.*

07 *REMOVE & DISPOSE OF EXISTING PULL UP BARS.*

08 *REMOVE & DISPOSE OF EXISTING WOODEN WINDOW.*

09 *REMOVE & DISPOSE OF EXISTING LIGHT POLES.*

10 *REMOVE & DISPOSE OF EXISTING TREES.*

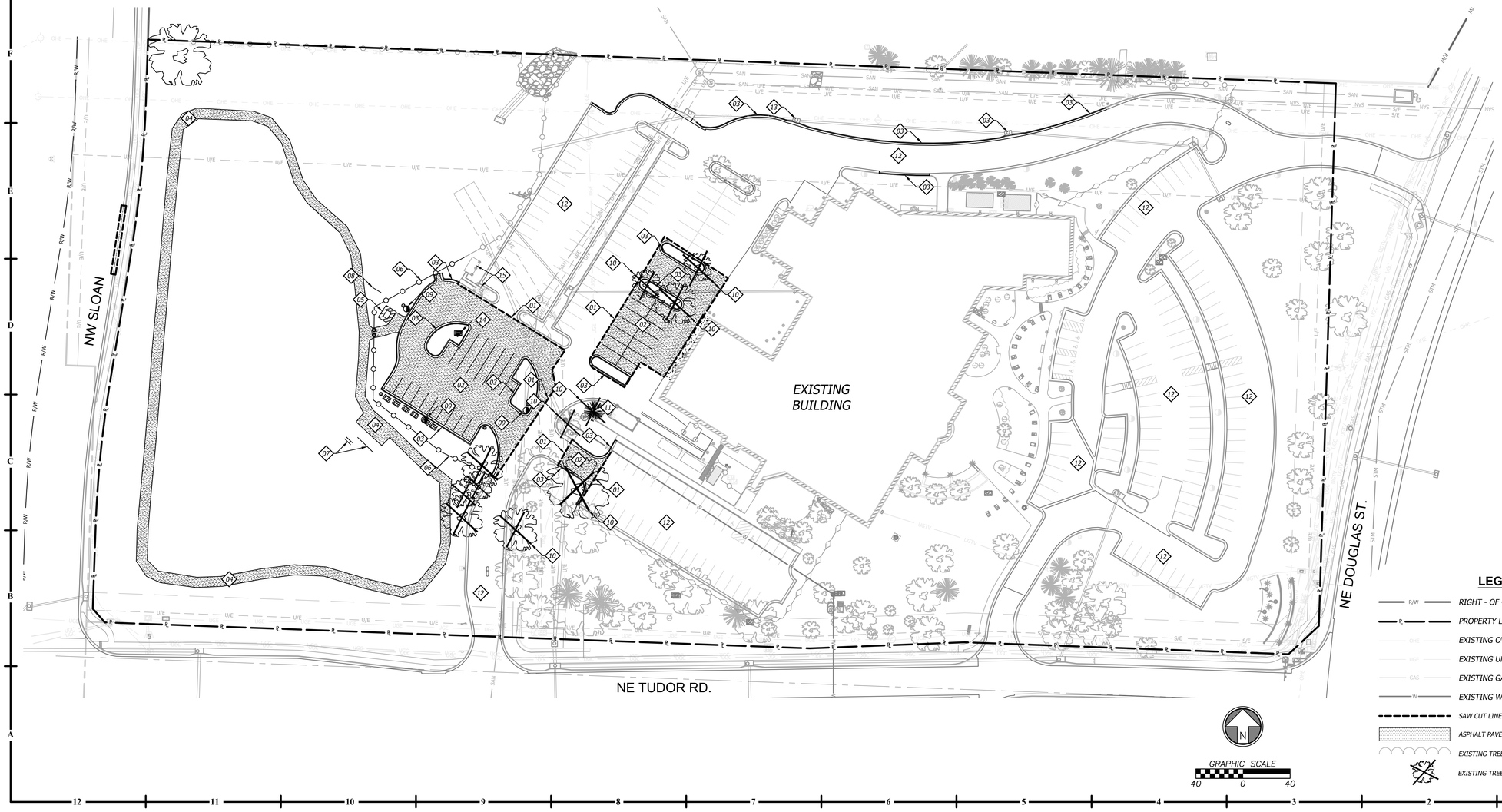
11 *RELOCATE WATER VAULT TO ALLOW FOR PROPOSED TRASH ENCLOSURE.*

12 *MILL EXISTING PARKING LOT 2", OVERLAY ASPHALT AND RESTRIPE TO MATCH EXISTING. CONTRACTOR TO COORDINATE OVERLAY WORK SEQUENCE WITH OWNER TO MINIMIZE DISRUPTION TO FACILITY OPERATIONS.*

13 *STRUCTURE TO MODIFIED TO FROM CURB INLET TO GRATE TOP INLET.*

14. *REMOVE & RELOCATE EXISTING SHUT-OFF FOR FUEL PUMP*

15. *EXISTING FUEL STATION TO REMAIN. TO BE PROTECTED DURING CONSTRUCTION.*



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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

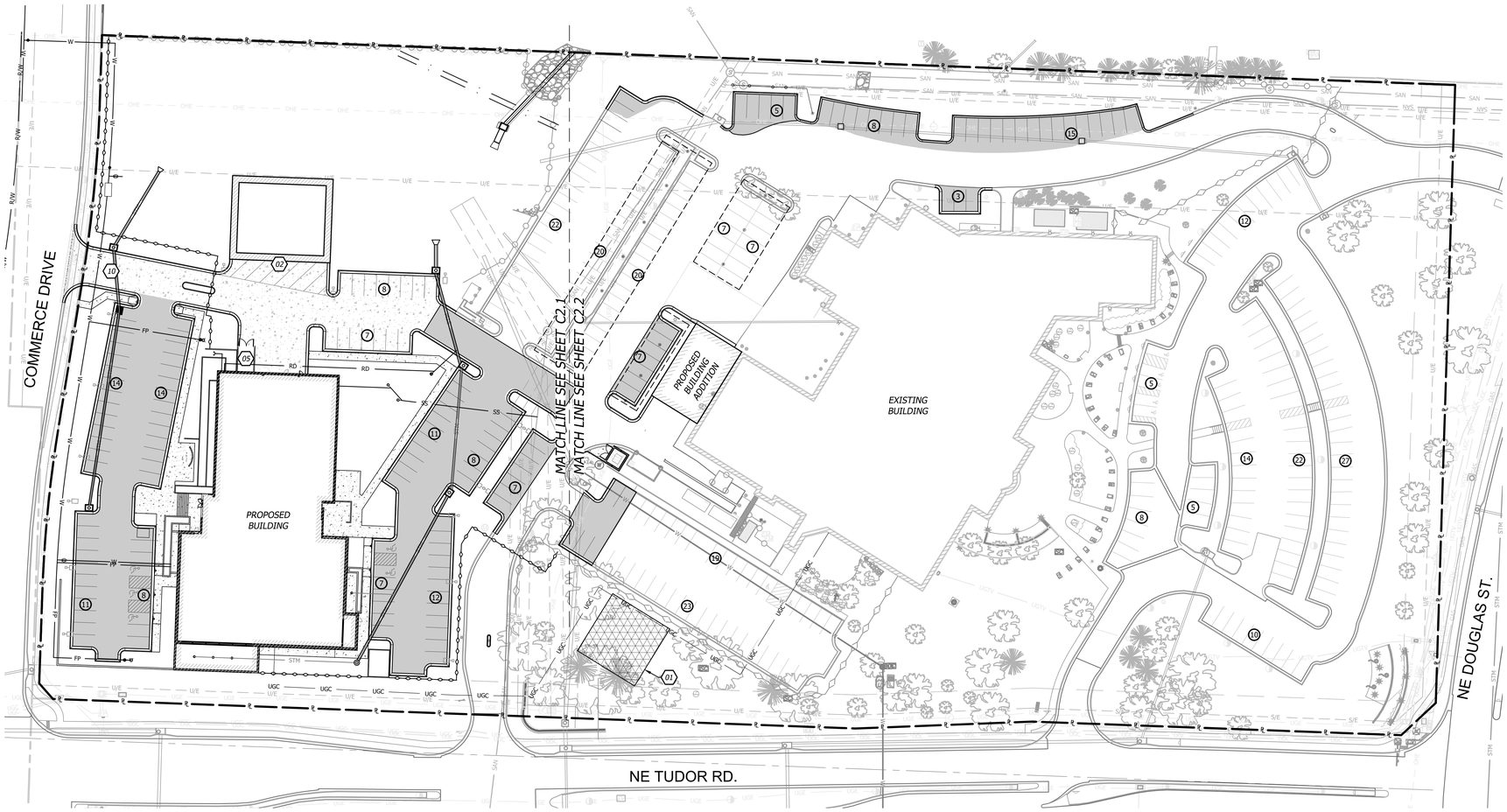
STATE OF MISSOURI
MICHAEL W. MAKRIS
NUMBER PE-2021035266
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C1.0

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

DEMOLITION PLAN



SITE DATA

SITE		
SITE AREA:	*11.58*	*AC*
	504,417	*SF*
IMPERVIOUS AREA:		
EXISTING:	*228,818*	*SF (45.4%)*
PROPOSED:	*296,228*	*SF (58.7%)*
BUILDING		
EXISTING BUILDING AREA:	*50,682*	*SF (10.0%)*
PROPOSED BUILDING AREA:	*22,176*	*SF (4.4%)*
PROPOSED BUILDING EXPANSION AREA:	*2,520*	*SF (0.5%)*
FLOOR AREA RATIO (FAR):	*0.15:1*	
PARKING		
PARKING PROVIDED:	*366*	*STANDARD*
ADA PARKING SPACES:	*13*	*HANDICAP (6 VAN)*

ZONING

PO (PLANNED OFFICE)

OWNERSHIP:

PARCEL NO. 52-900-04-237-00-0-00-000
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT POLICE AND COURT FACILITY
INSTRUMENT NO. 199710020462, BOOK 60, PAGE 53

DIMENSIONAL STANDARDS:

BUILDING SET-BACKS	*FRONT YARD*	*15 FT*
	REAR YARD	*20 FT*
PARKING SET-BACKS	*RIGHT OF WAY*	*20 FT*
	RESIDENTIAL DISTRICT	*20 FT*
	SIDE AND REAR P/L	*6 FT*
DRIVEWAY AISLE MINIMUM		*24 FT*
PARKING SPACE DIMENSIONS	*LENGTH*	*19 FT*
	WIDTH	*9 FT*

KEYED NOTES

01 *FUTURE COMMUNICATIONS TOWER LOCATION. NOT IN CONTRACT.*

GENERAL NOTES:

1. *MINIMUM CURB RADIUS OF 3 FEET (UNLESS OTHERWISE SPECIFIED).*
2. *ALL NEW ON-SITE WIRING AND CABLES SHALL BE INSTALLED UNDERGROUND.*
3. *ALL ABOVE GROUND ELECTRICAL AND/ OR TELEPHONE CABINETS MUST BE PLACED WITHIN THE INTERIOR SIDE OR REAR BUILDING SETBACK YARDS.*
4. *ALL EXTERIOR GROUND OR BUILDING MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO MECHANICAL EQUIPMENT, UTILITY METER BANKS AND COOLERS, SHALL BE SCREENED FROM PUBLIC VIEW WITH LANDSCAPING OR ARCHITECTURAL TREATMENT COMPATIBLE WITH THE BUILDING ARCHITECTURE.*
5. *ALL EXERIOR -MOUNTED AND ROOFTOP BUILDING HVAC AND MECHANICAL EQUIPMENT, VENTS, PIPING, ROOF ACCESS LADDERS AND UTILITY METERS MUST BE LOCATED OUT OF VIEW OR OTHERWISE SCREENED FROM PUBLIC VIW FROM ALL ADJACENT STREETS AND RESIDENTIALLY ZONED OR DEVELOPED PROPERTIES. SCREENING MUST BE ACCOMPLISHED WITH LANDSCAPING, SCREEN WALLS, BUILDING ELEMENTS, OR A COMBINATION OF THESE METHODS.*
6. *BUILDING FOOTPRINT AS SHOWN REPRESENTS THE MOST EXTERIOR LINE WORK FOR BUILDING AS PROVIDED BY HOEFER WELKER.*

SITE LEGEND

- *PARKING STALL COUNT*
- *PROPOSED BUILDING*
- *EXISTING BUILDING*
- *LIGHT DUTY ASPHALT PAVEMENT*
- *LIGHT DUTY PCC PAVEMENT*
- *CONCRETE SIDEWALK*
- *STANDARD CURB & GUTTER*
- *RETAINING WALL*
- *DRY CURB & GUTTER*
- *ZERO HEIGHT CURB*
- *TRANSITION CURB*

N

GRAPHIC SCALE
40 0 40

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

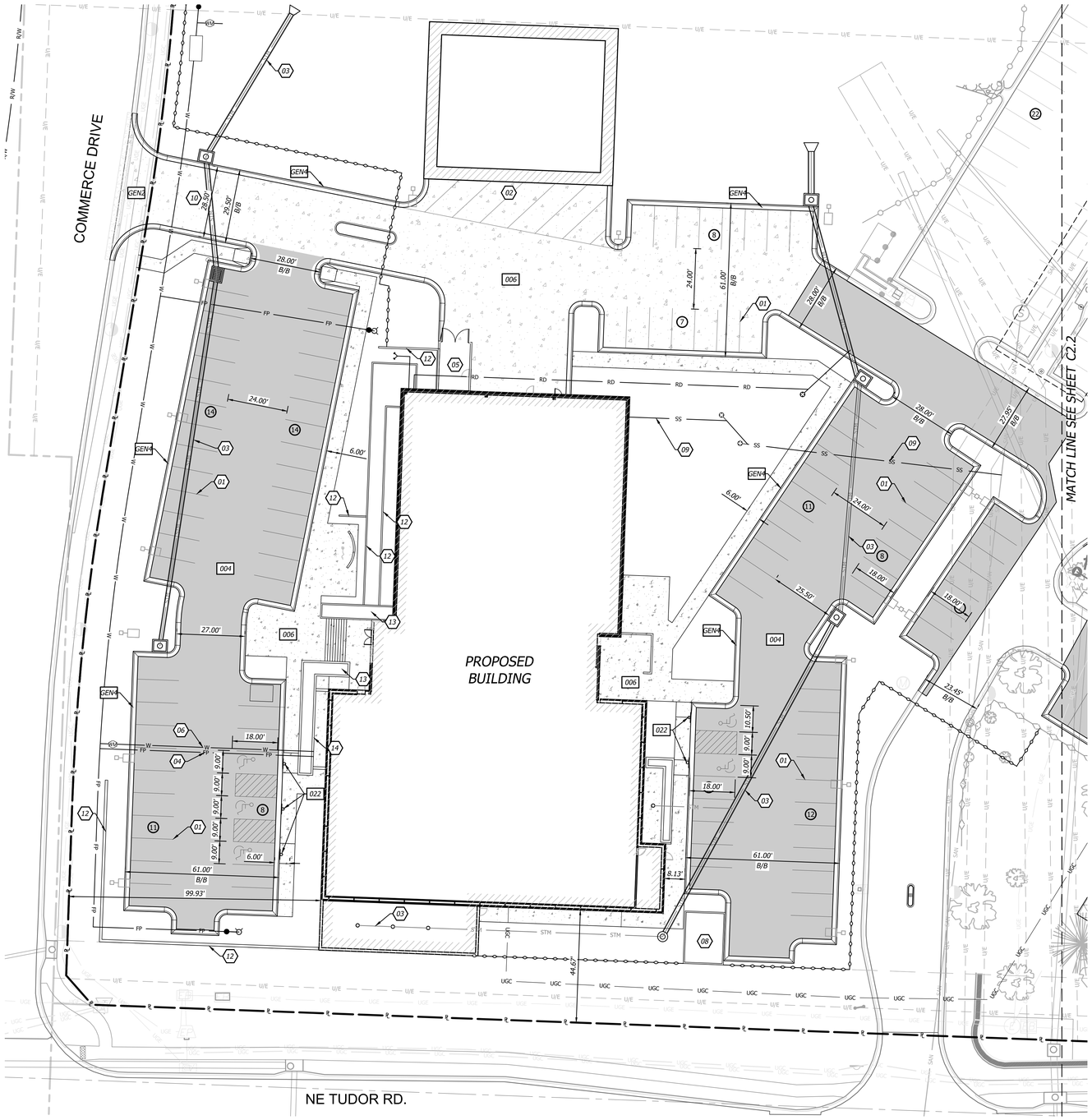
STATE OF MISSOURI
MICHAEL P. MAKRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C2.0

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

OVERALL SITE PLAN



ZONING

PO (PLANNED OFFICE)

GENERAL NOTES:

1. *MINIMUM CURB RADIUS OF 3 FEET (UNLESS OTHERWISE SPECIFIED).*
2. *ALL NEW ON-SITE WIRING AND CABLES SHALL BE INSTALLED UNDERGROUND.*
3. *ALL ABOVE GROUND ELECTRICAL AND/ OR TELEPHONE CABINETS MUST BE PLACED WITHIN THE INTERIOR SIDE OR REAR BUILDING SETBACK YARDS.*
4. *ALL EXTERIOR GROUND OR BUILDING MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO MECHANICAL EQUIPMENT, UTILITY METER BANKS AND COOLERS, SHALL BE SCREENED FROM PUBLIC VIEW WITH LANDSCAPING OR ARCHITECTURAL TREATMENT COMPATIBLE WITH THE BUILDING ARCHITECTURE.*
5. *ALL EXERIOR -MOUNTED AND ROOFTOP BUILDING HVAC AND MECHANICAL EQUIPMENT, VENTS, PIPING, ROOF ACCESS LADDERS AND UTILITY METERS MUST BE LOCATED OUT OF VIEW OR OTHERWISE SCREENED FROM PUBLIC VIW FROM ALL ADJACENT STREETS AND RESIDENTIALLY ZONED OR DEVELOPED PROPERTIES. SCREENING MUST BE ACCOMPLISHED WITH LANDSCAPING, SCREEN WALLS, BUILDING ELEMENTS, OR A COMBINATION OF THESE METHODS.*
6. *BUILDING FOOTPRINT AS SHOWN REPRESENTS THE MOST EXTERIOR LINE WORK FOR BUILDING AS PROVIDED BY HOEFER WELKER.*

00 CONSTRUCTION NOTES

01	*LEAD FREE, WATER-BORNE EMULSION BASED TRAFFIC PAINT FOR PARKING LOT STRIPING (WHITE ON ASPHALT & YELLOW ON CONCRETE).*
02	*PROPOSED NO PARKING STRIPING*
03	*PROPOSED STORM SEWER SYSTEM*
04	*PROPOSED FIRE PROTECTION SYSTEM*
05	*PROPOSED TRASH ENCLOSURE. (REF. TO ARCHITECTURAL PLANS)*
06	*PROPOSED WATER SERVICE SYSTEM*
07	*PROPOSED GENERATOR*
08	*PROPOSED TRANSFORMER PAD LOCATION*
09	*PROPOSED SANITARY SEWER SYSTEM*
10	*CITY OF LEE'S SUMMIT COMMERCIAL DRIVE ENTRANCE (GEN-1)*
11	*PROPOSED COMMUNICATIONS TOWER LOCATION. PENDING FURTHER DESIGN.*
12	*SITE RETAINING WALLS ARE DELEGATED DESIGN. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEER/ARCHITECT REVIEW. PRODUCT - VERSA-LOK MOSAIC, COLOR BY ARCHITECT.*
13	*PLANTER WALLS SPECIFIED BY ARCHITECT.*
14	*HANDRAILS REQUIRED FOR ADA RAMP SPECIFIED BY ARCHITECT.*

SITE LEGEND

- (#) *PARKING STALL COUNT*
- *PROPOSED BUILDING*
- *EXISTING BUILDING*
- *LIGHT DUTY ASPHALT PAVEMENT*
- *LIGHT DUTY PCC PAVEMENT*
- *CONCRETE SIDEWALK*
- *STANDARD CURB & GUTTER*
- *RETAINING WALL*
- *DRY CURB & GUTTER*
- *ZERO HEIGHT CURB*
- *TRANSITION CURB*

000 DETAILS

SEE CONSTRUCTION DETAILS - SHEETS C7.0 - C7.3

GEN-1	*CONCRETE DRIVEWAY DETAIL*
GEN-4	*CONCRETE CURB & GUTTER*
004	*MEDIUM DUTY ASPHALT PAVEMENT*
006	*MEDIUM DUTY PCC PAVEMENT*
014	*CONCRETE SIDEWALK SECTION*
022	*ADA PARKING SIGNAGE*
040	*AMERISTAR FENCE DETAIL*
041	*AMERISTAR GATE DETAIL*

N

GRAPHIC SCALE
20 0 20

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

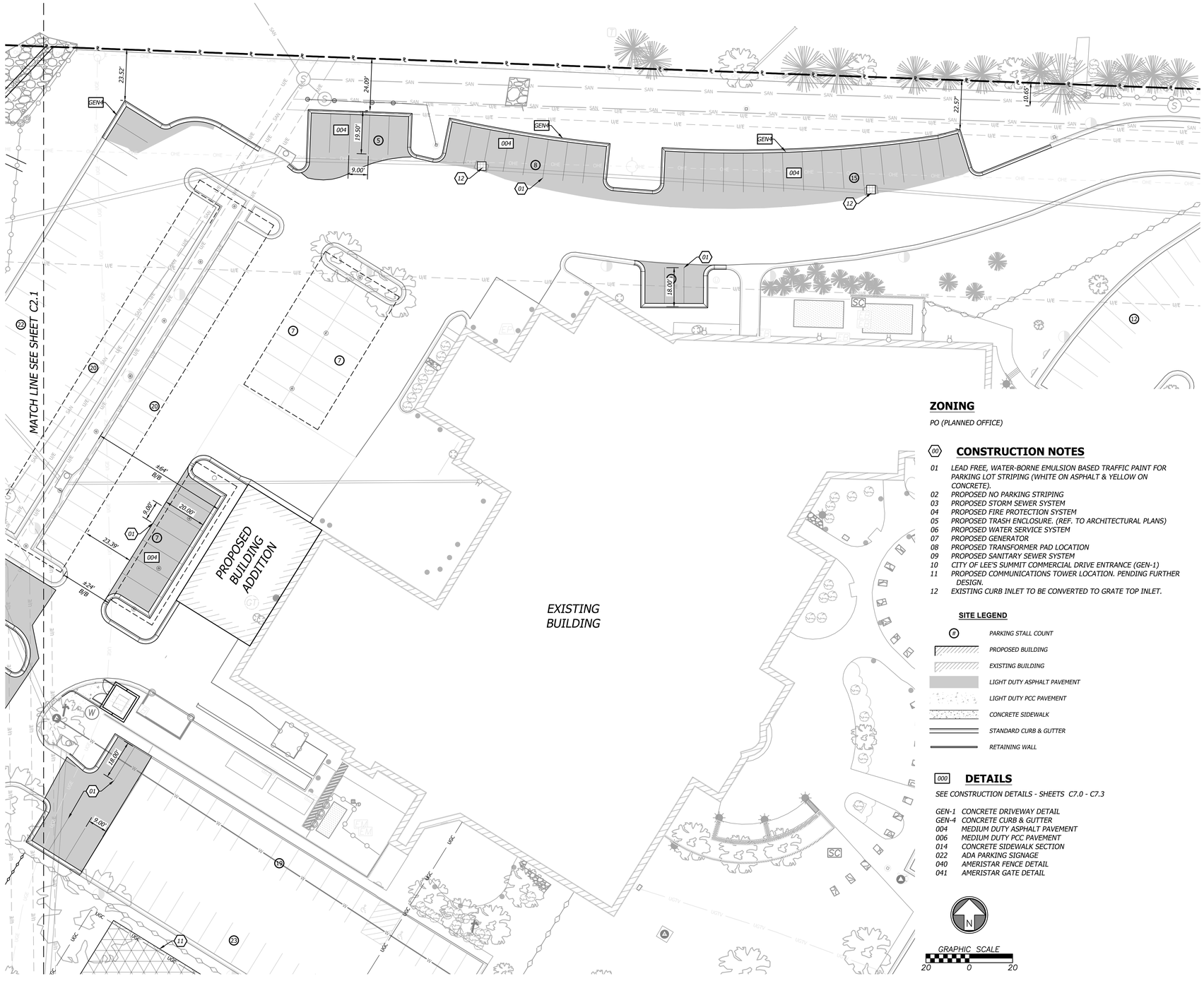
STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035286
PROFESSIONAL ENGINEER
2024-10-30

PROFESSIONAL SEAL

C2.1

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

SITE PLAN



ZONING

PO (PLANNED OFFICE)

00 CONSTRUCTION NOTES

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10 CITY OF LEE'S SUMMIT COMMERCIAL DRIVE ENTRANCE (GEN-1)
11 PROPOSED COMMUNICATIONS TOWER LOCATION. PENDING FURTHER DESIGN.
12 EXISTING CURB INLET TO BE CONVERTED TO GRATE TOP INLET.

SITE LEGEND

PARKING STALL COUNT
PROPOSED BUILDING
EXISTING BUILDING
LIGHT DUTY ASPHALT PAVEMENT
LIGHT DUTY PCC PAVEMENT
CONCRETE SIDEWALK
STANDARD CURB & GUTTER
RETAINING WALL

000 DETAILS

SEE CONSTRUCTION DETAILS - SHEETS C7.0 - C7.3

GEN-1 CONCRETE DRIVEWAY DETAIL
GEN-4 CONCRETE CURB & GUTTER
004 MEDIUM DUTY ASPHALT PAVEMENT
006 MEDIUM DUTY PCC PAVEMENT
014 CONCRETE SIDEWALK SECTION
022 ADA PARKING SIGNAGE
040 AMERISTAR FENCE DETAIL
041 AMERISTAR GATE DETAIL

N

GRAPHIC SCALE
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LEES SUMMIT, MO 64086

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STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2010035586
2024-10-30
PROFESSIONAL ENGINEER

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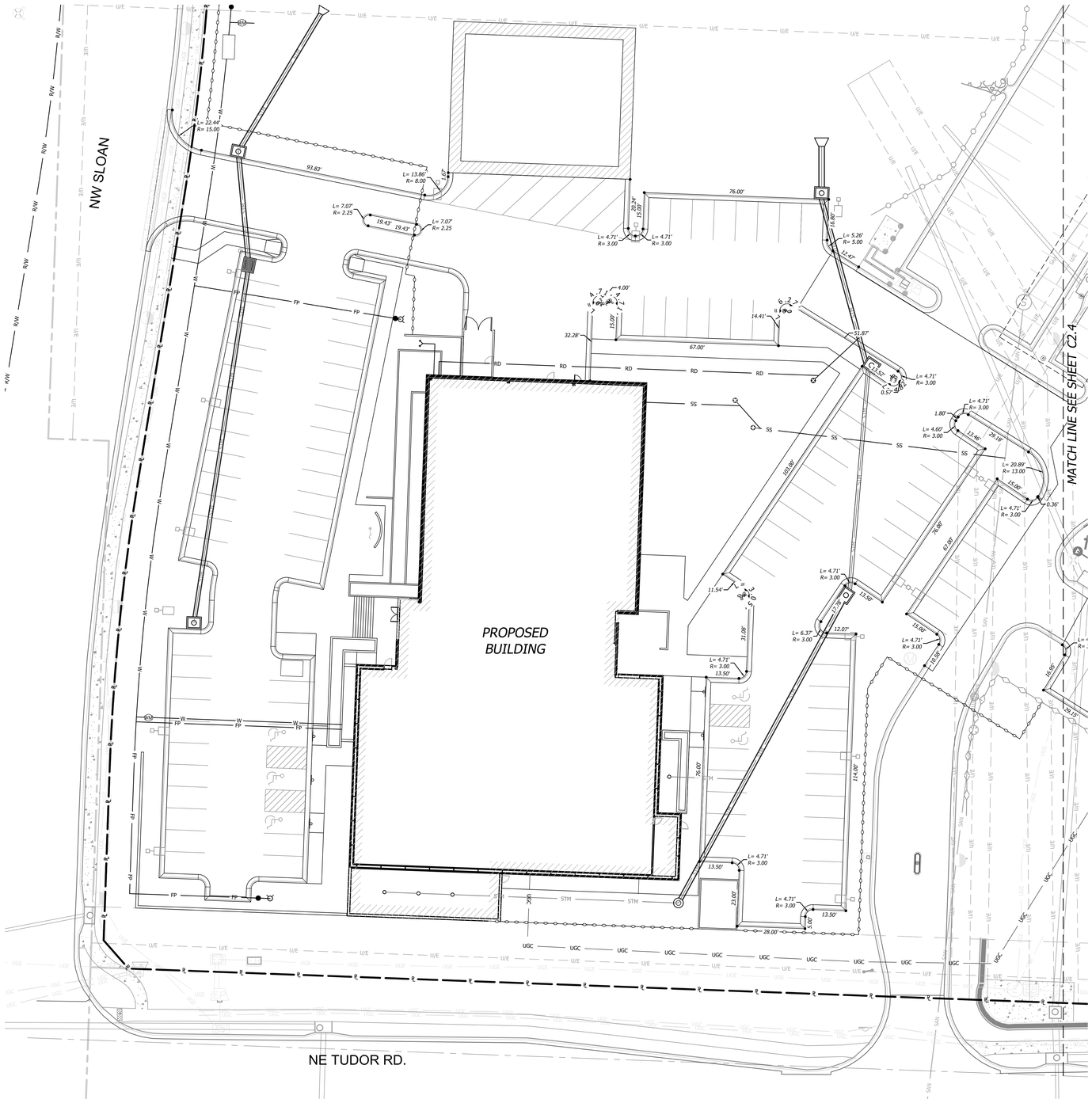
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ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

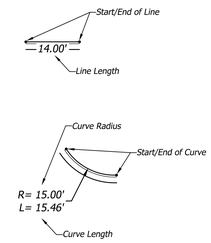
SITE PLAN

DIMENSION NOTES

1. All dimensions are to/along back of curb unless otherwise noted.
2. All dimensions are to bottom of wall unless otherwise noted.



DIMENSION LEGEND



GRAPHIC SCALE
20 0 20

DIMENSION PLAN

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LEES SUMMIT, MO 64086

REVISION DATES:

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STATE OF MISSOURI
MICHAEL J. MANKINS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

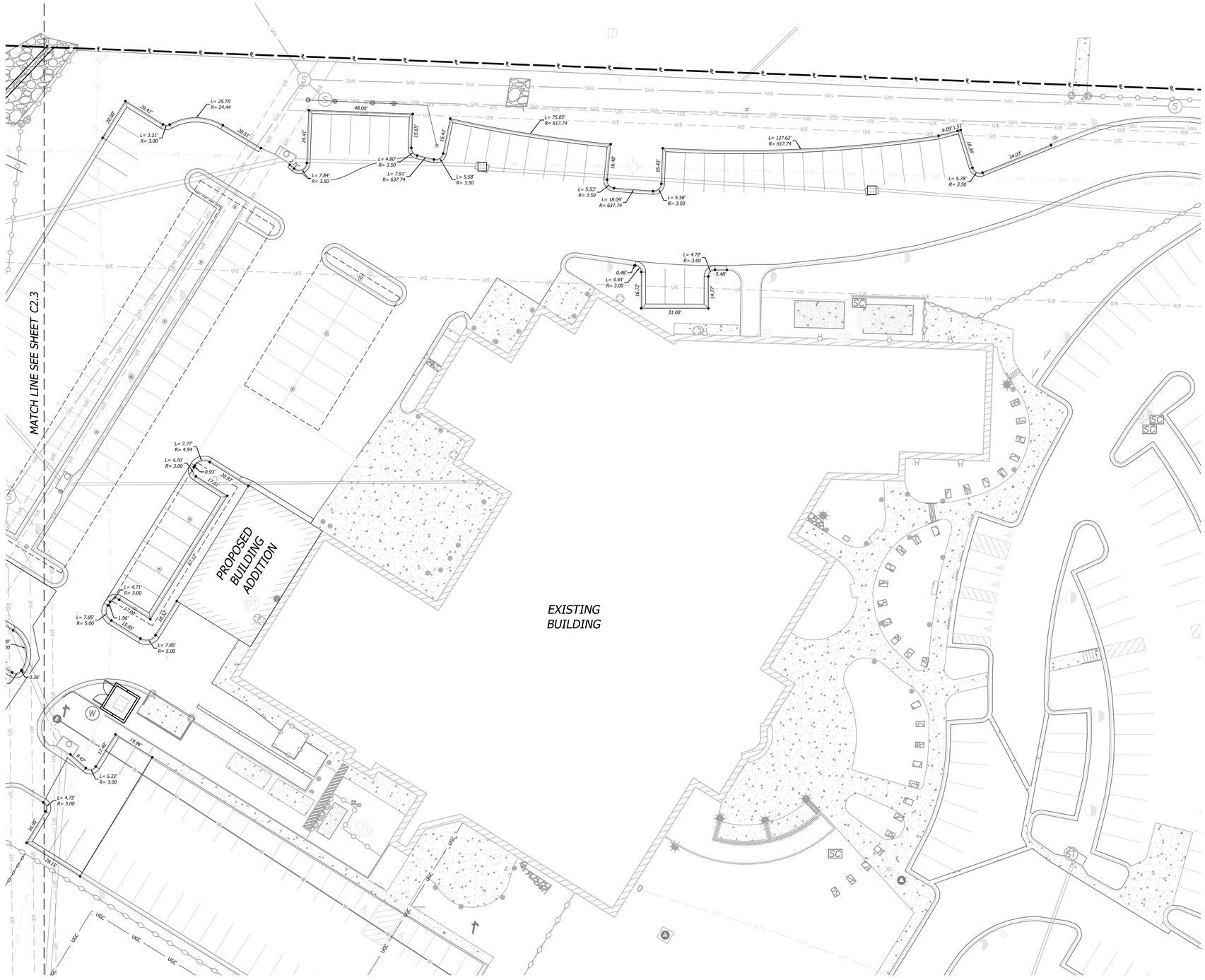
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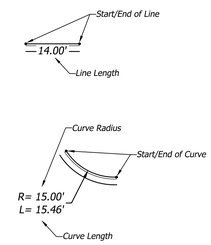
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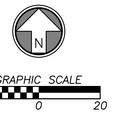
DIMENSION NOTES

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DIMENSION LEGEND





GRAPHIC SCALE
20 0 20

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2024-10-30
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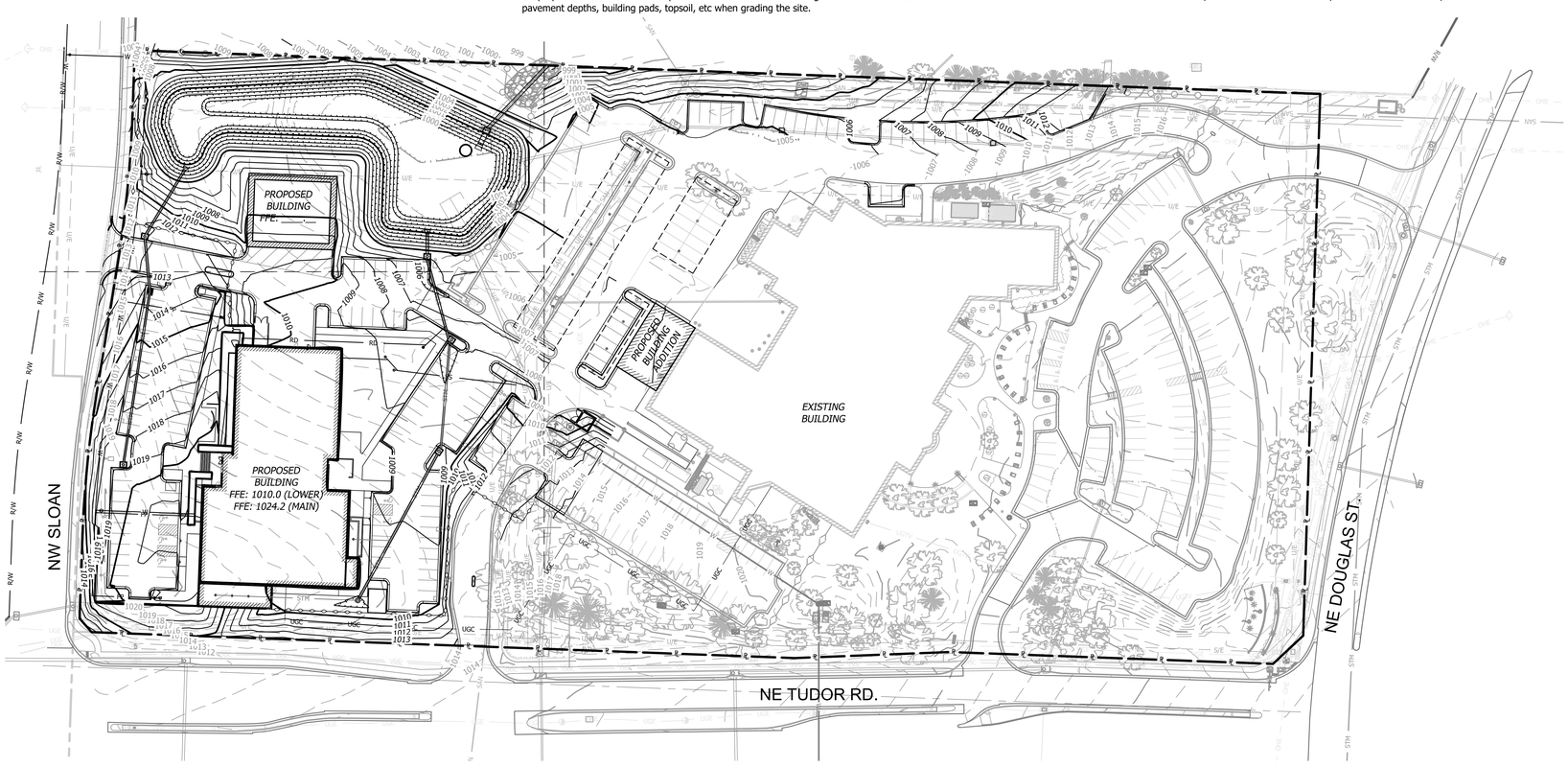
C2.4

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

DIMENSION PLAN

GRADING GENERAL NOTES

1. Contractor shall obtain a copy of the Geotechnical Services Report, prepared by PSI on December 19, 2016, for the project and satisfy himself as to the existing conditions and recommendations contained in the report.
2. As discussed in the Geotechnical Report, over excavation of existing unsuitable soils will be required under building and pavement areas. Contractor shall perform over excavation of unsuitable soils as a part of this work.
3. Contractor shall obtain soils suitable as structural fill from off-site sources. All borrow materials must be tested and approved by the Geotechnical Engineer prior to importing the soils to the project site.
4. Contractor shall operate under the terms and permits included in the Stormwater Pollution Prevention Plan (SWPPP) prepared for this project and permitted through the State of Missouri. Contractor shall employ a qualified person to conduct regular inspections of the site erosion control measures and document such inspections in the SWPPP document maintained by the Contractor.
5. All topsoil, vegetation, root structures, and deleterious materials shall be stripped from the ground surface prior to the placement of embankments. Contractor shall obtain the on-site geotechnical representative's acceptance of the existing ground surface materials and the proposed fill material prior to the placement of fill.
6. All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for pavement depths, building pads, topsoil, etc when grading the site.
7. All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of topsoil.
8. All excavation and embankments shall comply with the recommendations provided by the geotechnical engineer.
9. Prior to placing any concrete or asphalt pavement the contractor shall perform a proof roll of the pavement sub-grade with a fully loaded tandem axle dump truck. The proof roll shall be conducted in the presence of the Engineer and the on-site geotechnical representative. Areas that display rutting or pumping that are unsatisfactory to the engineer shall be re-worked and a follow-up proof roll shall be conducted prior to acceptance of the sub-grade for paving. The contractor may, at its own expense, stabilize the sub-grade using Class C fly ash or quicklime.
10. Finished grades shall not be steeper than 3:1.
11. All grading work shall be considered unclassified. No additional payments shall be made for rock excavation. Contractor shall satisfy himself as to any rock excavation required to accomplish the improvements shown hereon.
12. A 2.0% maximum cross slope shall be maintained on all pedestrian sidewalks and paths.



BENCHMARKS (DATUM: NAVD88)

BENCHMARK NUMBER: 1
ELEVATION= 1015.01

CHISELED SQUARE ON THE NORTH FACE OF A GRATE INLET, LOCATED ON THE SOUTH SIDE OF TUDOR ROAD, APPROXIMATELY 425 FEET EAST OF THE INTERSECTION OF TUDOR ROAD AND SLOAN STREET.

BENCHMARK NUMBER: 2
ELEVATION= 1031.01

CHISELED SQUARE ON THE NORTHWEST CORNER OF A PEDESTRIAN CROSSING SIGNAL, LOCATED ON THE SOUTHWEST CORNER OF THE INTERSECTION OF TUDOR ROAD AND DOUGLAS STREET.

FLOOD STATEMENT

The subject property lies within Flood Zone " X " (unshaded) (Areas determined to be outside the 0.2% annual chance floodplain.), as shown on the Jackson County, Missouri and Incorporated Areas Flood Insurance Rate Map (F.I.R.M.).

Map Number: 29095C0417G
Panel No: 417 of 625
Map Revised Date: January 20, 2017

NOTE: This statement is provided for informational purposes only and shall in no way constitute a basis for a flood certificate. No field work was performed to establish the boundaries of this zone. The information was derived by scaling the subject property on the above referenced map.

GRADING LEGEND

- 980 — FINISH GRADE MAJOR CONTOURS
- 982 — FINISH GRADE MINOR CONTOURS
- 980 — EXISTING GRADE MAJOR CONTOURS
- 982 — EXISTING GRADE MINOR CONTOURS
- ℄ — PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE
- STANDARD CURB & GUTTER
- DRY CURB & GUTTER
- ZERO HEIGHT CURB
- TRANSITION CURB
- RETAINING WALL

GRAPHIC SCALE
50 0 50

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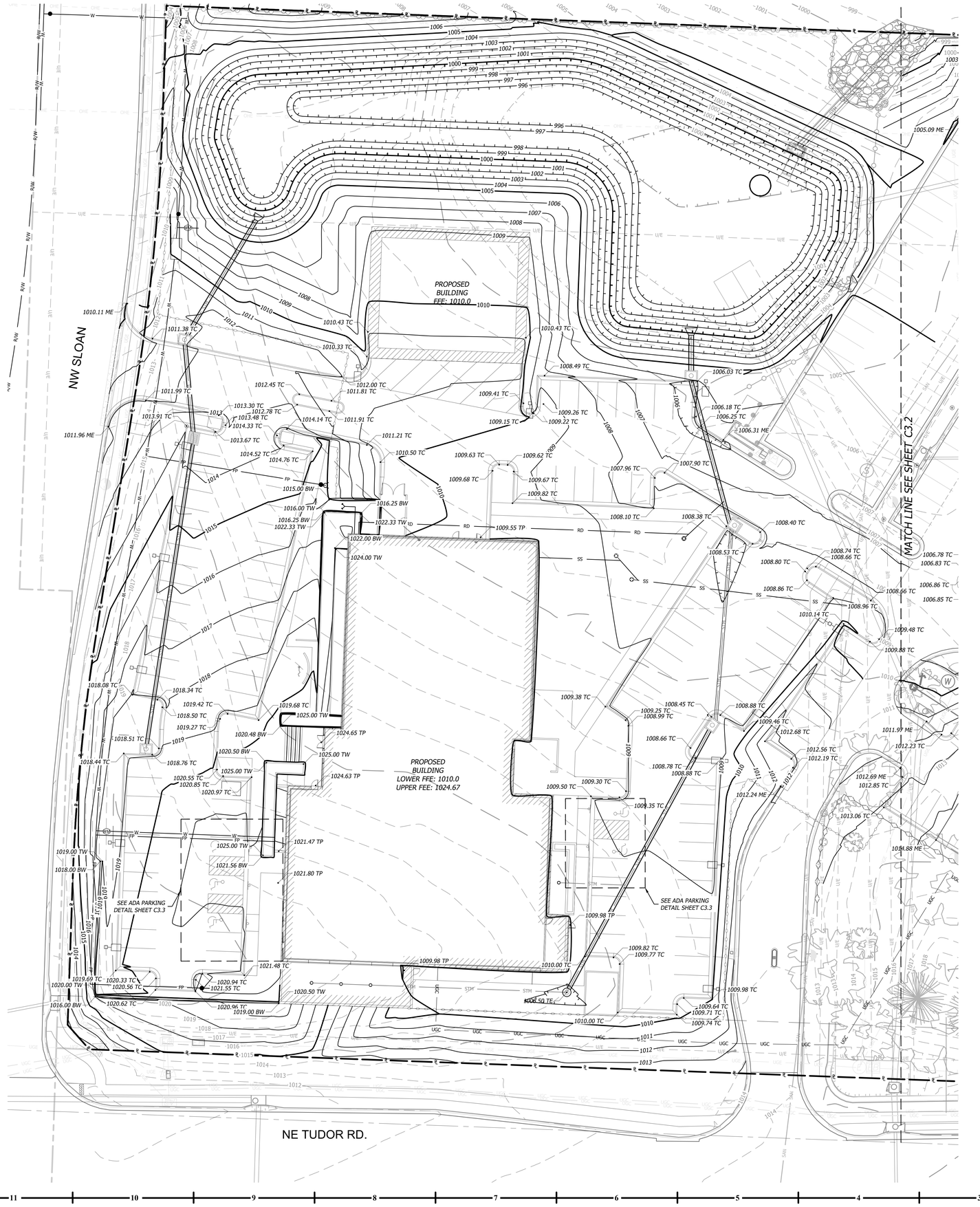
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MICHAEL J. MAKRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C3.0

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

OVERALL GRADING PLAN



DETAILED GRADING LEGEND

0000.00 FG	FINISHED GRADE ELEVATION
0000.00 TC	TOP OF CURB ELEVATION
0000.00 TP	TOP OF PAVEMENT ELEVATION
0000.00 TW	FG @ TOP OF RETAINING WALL
0000.00 BW	FG @ BOTTOM OF RETAINING WALL
0000.00 ME	MATCH EXISTING GRADE
0000.00 TE	TOP ELEVATION OF STRUCTURE
0000.00 XX HIGH POINT	HIGH POINT AT SPECIFIC CALLOUT
0000.00 XX LOW POINT	LOW POINT AT SPECIFIC CALLOUT
1.00%	SLOPE INDICATOR

GRAPHIC SCALE
20 0 20

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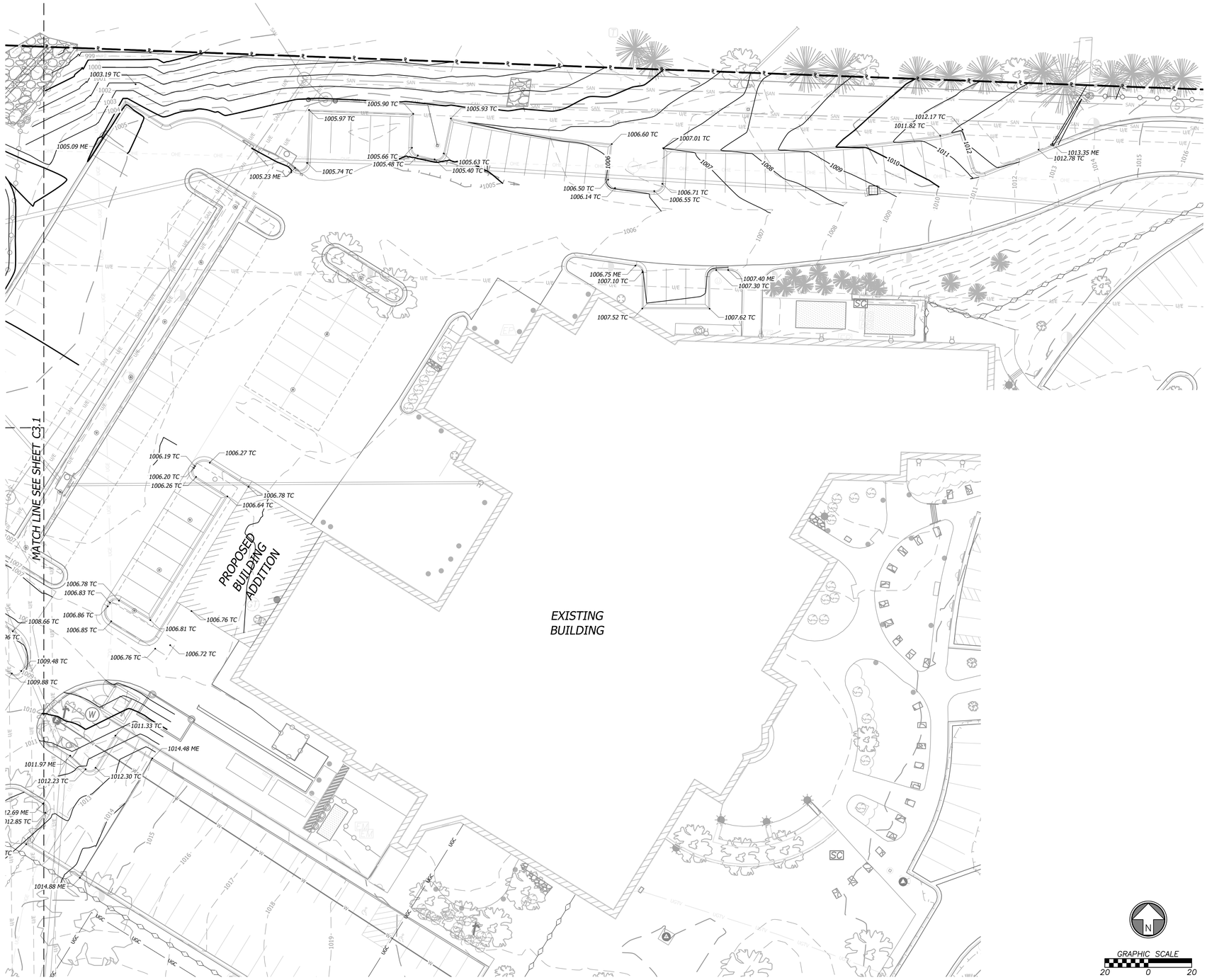
C3.1

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DETAILED GRADING PLAN

DETAILED GRADING LEGEND

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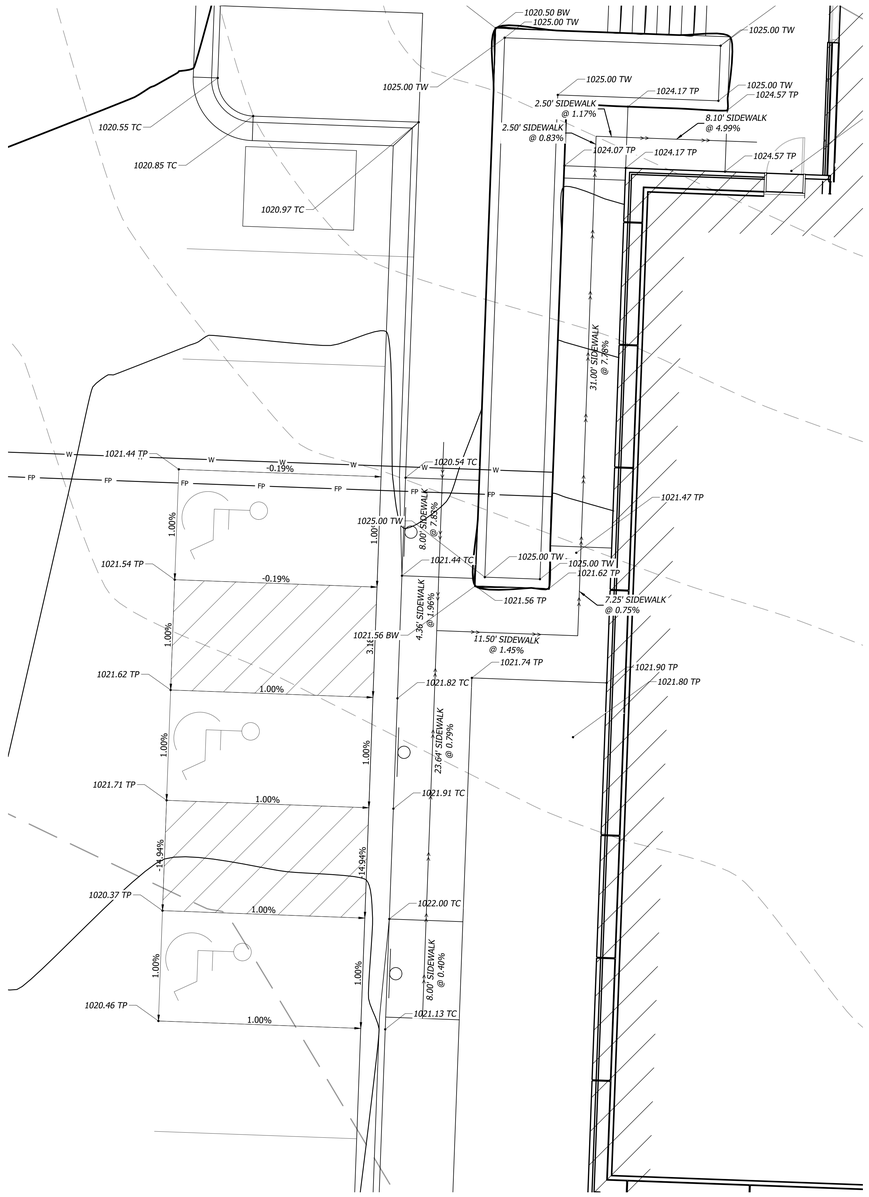
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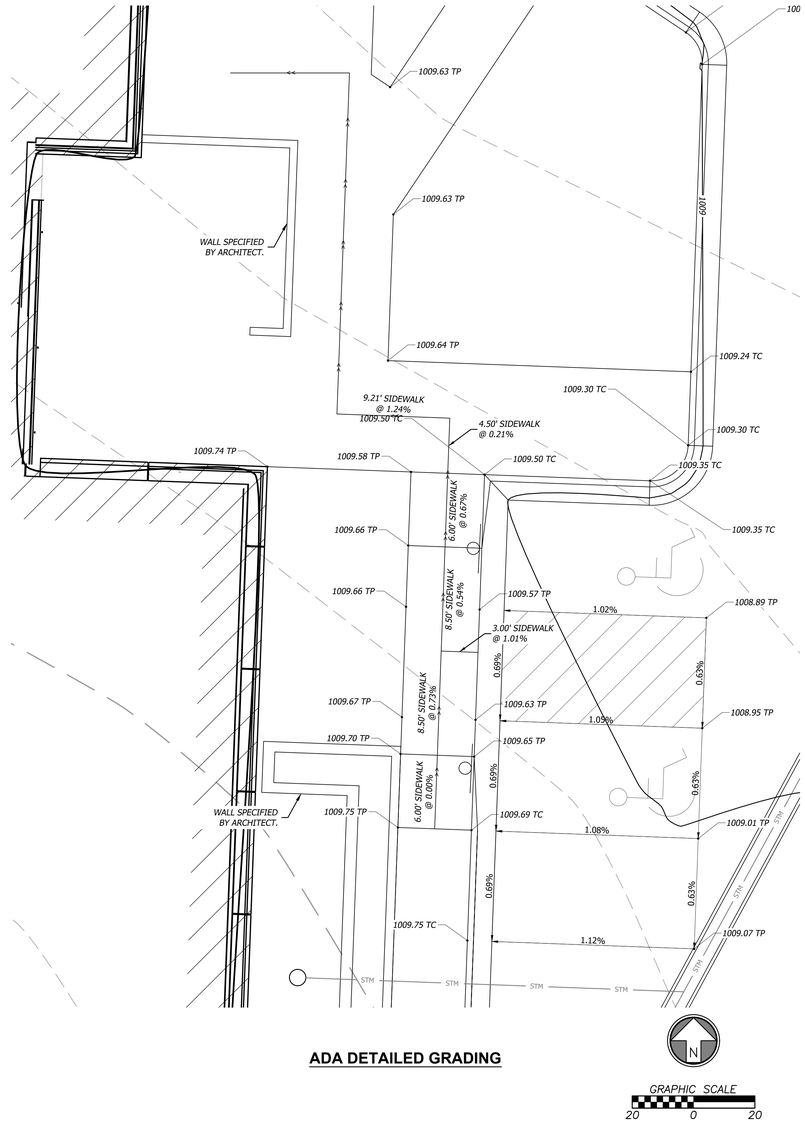
DETAILED GRADING PLAN



ADA DETAILED GRADING

DETAILED GRADING LEGEND

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0000.00 TC	TOP OF CURB ELEVATION
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0000.00 XX LOW POINT	LOW POINT AT SPECIFIC CALLOUT
1.00%	SLOPE INDICATOR



ADA DETAILED GRADING

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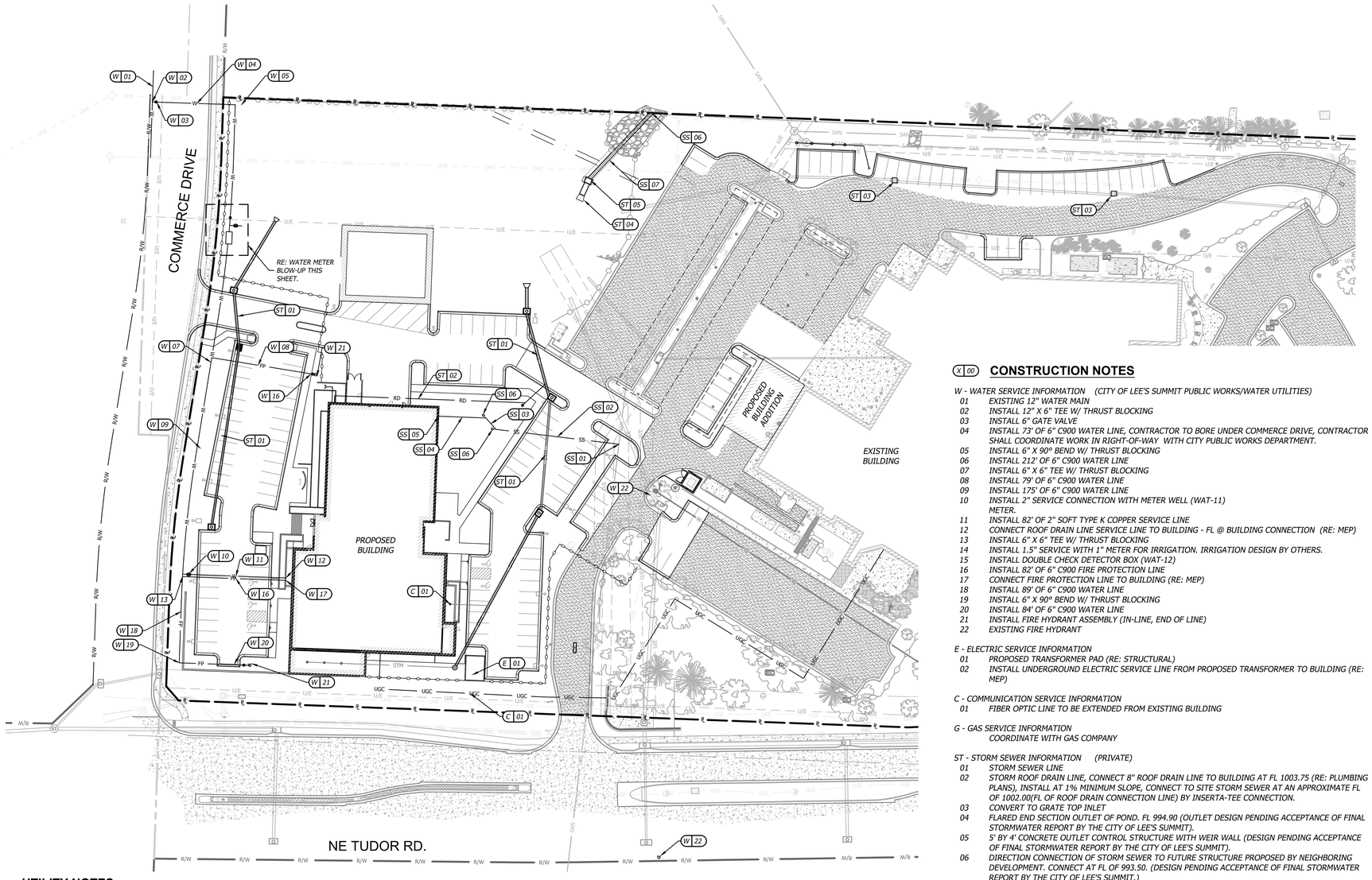
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PROFESSIONAL SEAL

C3.3

ISSUE DATE: AUGUST 30, 2024
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ADA DETAILED GRADING



CONSTRUCTION NOTES

W - WATER SERVICE INFORMATION (CITY OF LEE'S SUMMIT PUBLIC WORKS/WATER UTILITIES)

- *01 EXISTING 12" WATER MAIN*
- *02 INSTALL 12" X 6" TEE W/ THRUST BLOCKING*
- *03 INSTALL 6" GATE VALVE*
- *04 INSTALL 73' OF 6" C900 WATER LINE, CONTRACTOR TO BORE UNDER COMMERCE DRIVE, CONTRACTOR SHALL COORDINATE WORK IN RIGHT-OF-WAY WITH CITY PUBLIC WORKS DEPARTMENT.*
- *05 INSTALL 6" X 90° BEND W/ THRUST BLOCKING*
- *06 INSTALL 212' OF 6" C900 WATER LINE*
- *07 INSTALL 6" X 6" TEE W/ THRUST BLOCKING*
- *08 INSTALL 79' OF 6" C900 WATER LINE*
- *09 INSTALL 175' OF 6" C900 WATER LINE*
- *10 INSTALL 2" SERVICE CONNECTION WITH METER WELL (WAT-11) METER.*
- *11 INSTALL 82' OF 2" SOFT TYPE K COPPER SERVICE LINE*
- *12 CONNECT ROOF DRAIN LINE SERVICE LINE TO BUILDING - FL @ BUILDING CONNECTION (RE: MEP)*
- *13 INSTALL 6" X 6" TEE W/ THRUST BLOCKING*
- *14 INSTALL 1.5" SERVICE WITH 1" METER FOR IRRIGATION. IRRIGATION DESIGN BY OTHERS.*
- *15 INSTALL DOUBLE CHECK DETECTOR BOX (WAT-12)*
- *16 INSTALL 82' OF 6" C900 FIRE PROTECTION LINE*
- *17 CONNECT FIRE PROTECTION LINE TO BUILDING (RE: MEP)*
- *18 INSTALL 89' OF 6" C900 WATER LINE*
- *19 INSTALL 6" X 90° BEND W/ THRUST BLOCKING*
- *20 INSTALL 84' OF 6" C900 WATER LINE*
- *21 INSTALL FIRE HYDRANT ASSEMBLY (IN-LINE, END OF LINE)*
- *22 EXISTING FIRE HYDRANT*

E - ELECTRIC SERVICE INFORMATION

- *01 PROPOSED TRANSFORMER PAD (RE: STRUCTURAL)*
- *02 INSTALL UNDERGROUND ELECTRIC SERVICE LINE FROM PROPOSED TRANSFORMER TO BUILDING (RE: MEP)*

C - COMMUNICATION SERVICE INFORMATION

- *01 FIBER OPTIC LINE TO BE EXTENDED FROM EXISTING BUILDING*

G - GAS SERVICE INFORMATION

- *COORDINATE WITH GAS COMPANY*

ST - STORM SEWER INFORMATION (PRIVATE)

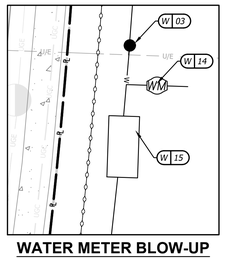
- *01 STORM SEWER LINE*
- *02 STORM ROOF DRAIN LINE, CONNECT 8" ROOF DRAIN LINE TO BUILDING AT FL 1003.75 (RE: PLUMBING PLANS). INSTALL AT 1% MINIMUM SLOPE, CONNECT TO SITE STORM SEWER AT AN APPROXIMATE FL OF 1002.00(FL OF ROOF DRAIN CONNECTION LINE) BY INSERTA-TEE CONNECTION.*
- *03 CONVERT TO GRATE TOP INLET*
- *04 FLARED END SECTION OUTLET OF POND. FL 994.90 (OUTLET DESIGN PENDING ACCEPTANCE OF FINAL STORMWATER REPORT BY THE CITY OF LEE'S SUMMIT).*
- *05 5' BY 4' CONCRETE OUTLET CONTROL STRUCTURE WITH WEIR WALL (DESIGN PENDING ACCEPTANCE OF FINAL STORMWATER REPORT BY THE CITY OF LEE'S SUMMIT).*
- *06 DIRECTION CONNECTION OF STORM SEWER TO FUTURE STRUCTURE PROPOSED BY NEIGHBORING DEVELOPMENT. CONNECT AT FL OF 993.50. (DESIGN PENDING ACCEPTANCE OF FINAL STORMWATER REPORT BY THE CITY OF LEE'S SUMMIT.)*
- *07 INSTALL 30" HDPE PIPE TO MAKE DIRECT CONNECTION TO INLET INSTALLED BY NEIGHBORING DEVELOPMENT. (DESIGN PENDING ACCEPTANCE OF FINAL STORMWATER REPORT BY THE CITY OF LEE'S SUMMIT).*
- *08 10" FLAT TOP NYLOPLAST AREA DRAIN. (TOP ELEVATION: 1009.75)*
- *09 INSTALL 3 - 8" NYLOPLAST AREA DRAINS IN LOCATIONS INDICATED ON ARCHITECT DRAWINGS AND MECHANICAL YARD EQUIPMENT LAYOUTS. (TOP ELEVATION 1009.70)*
- *10 INSTALL 10" HDPE STORM SEWER LINE @ 1% AND CONNECT TO NYLOPLAST BASIN AT FL OF 1007.00.*

SS - SANITARY SEWER INFORMATION (CITY OF LEE'S SUMMIT PUBLIC WORKS/WATER UTILITIES)

- *01 CONNECT TO EXISTING SANITARY SEWER MAIN WITH 8" X 6" SADDLE TAP 90° & FLOW IN NORTHERN DIRECTION (FL @ CONNECTION: 998.11) CONTRACTOR TO VERIFY.*
- *02 INSTALL 101 LF OF 6" PVC SDR-26 @ 1.00%*
- *03 INSTALL 35 LF OF 6" PVC SDR-26*
- *04 INSTALL 49 LF OF 6" PVC SDR-26*
- *05 CONNECT SANITARY SEWER SERVICE LINE TO BUILDING CONNECTION (RE: MEP)*
- *06 INSTALL SANITARY SEWER SERVICE LINE CLEANOUT*

UTILITY NOTES

1. Contractor shall refer to all specifications, guidelines, and installation drawings from utility contacts for the installation of all service lines.
2. The information shown on these plans concerning the type and location of underground utilities is not guaranteed to be accurate or all inclusive. The contractor is responsible for contacting all utility companies for field location of all underground utility lines prior to any excavation and for making his own verification as to type and location of underground utilities as may be necessary to avoid damage thereto.
3. Contractor to ensure 18" minimum separation between utilities at crossings. Contractor to call engineer if any conflicts between utilities are found.
4. Fire Line Notes:
   - 4.1. All private fire lines shall be installed in accordance with NFPA 24, and other applicable codes and standards.
   - 4.2. Contact the Fire Department to schedule inspections prior to private fire lines being backfilled.
   - 4.3. Contact the Fire Department to witness scheduled hydrostatic tests and flushes of private fire lines.
5. Stub all connections to within 5' of the building to provide connection into the building by mechanical/plumbing contractor.



WATER METER BLOW-UP

SCALE: 1" = 10'

ROOF DRAIN LEGEND

RD	*PROPOSED ROOF LINE DRAIN*
STM	*PROPOSED STORM SEWER LINE*
R/W	*RIGHT-OF-WAY LINE*
℄	*PROPERTY LINE*
W	*PROPOSED WATER LINE*
SS	*PROPOSED SANITARY SEWER LINE*
GAS	*PROPOSED NATURAL GAS LINE*

GRAPHIC SCALE

40 0 40

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

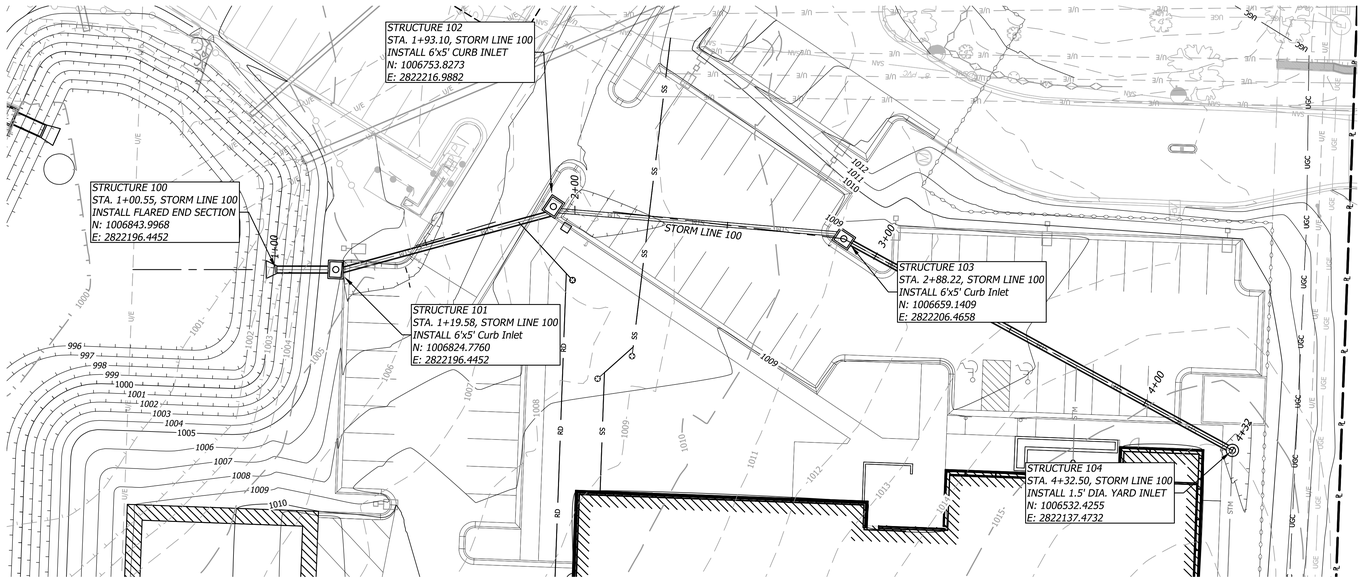
STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035336
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C4.0

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

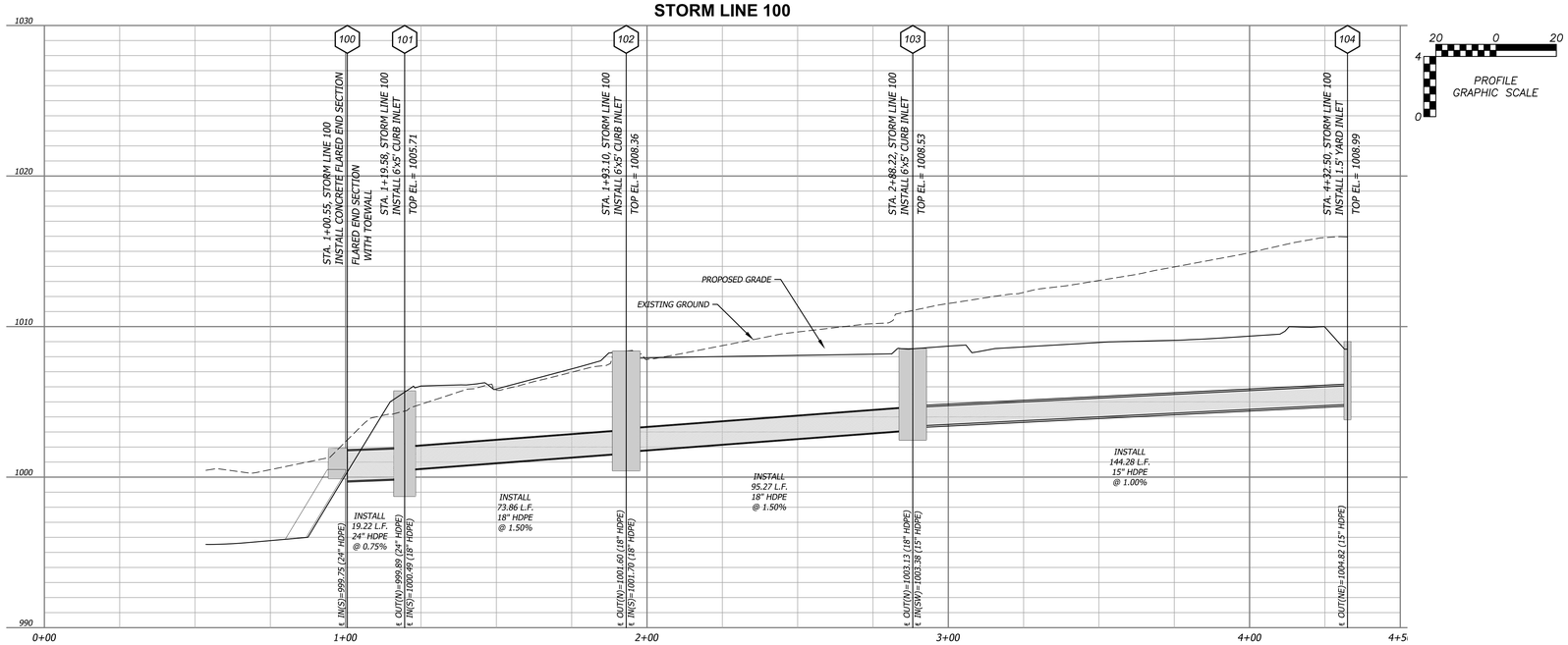
UTILITY PLAN



STORM NOTE

All Northings, Eastings, and alignment stationing for storm structures are to center of structure unless stated otherwise.

STORM LINE 100



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LEES SUMMIT, MO 64086

REVISION DATES:

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STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

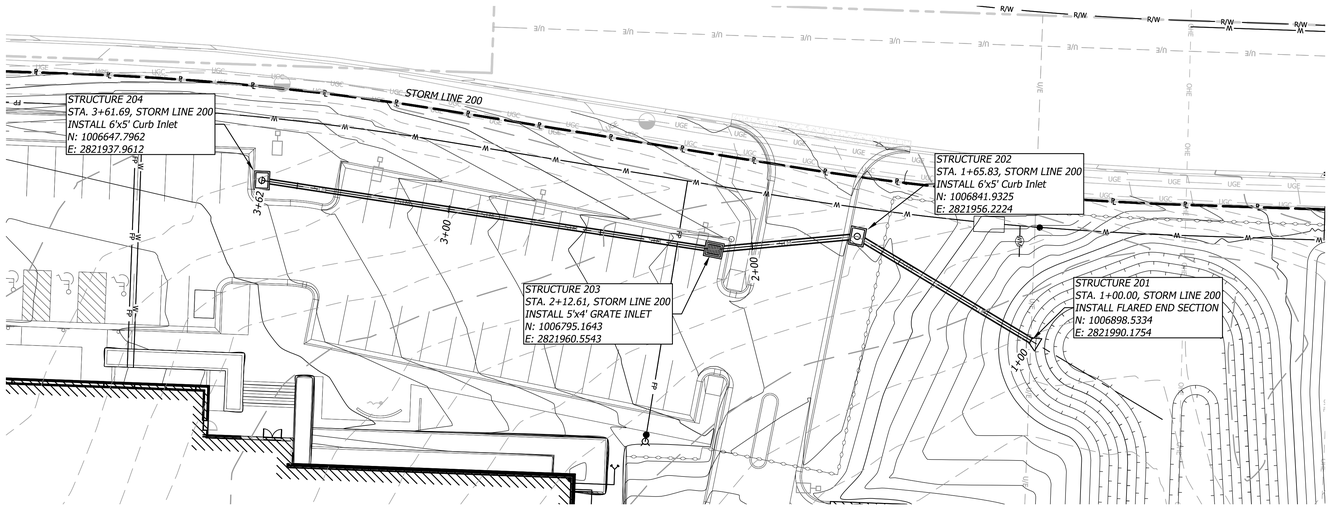
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STORM PLAN & PROFILE

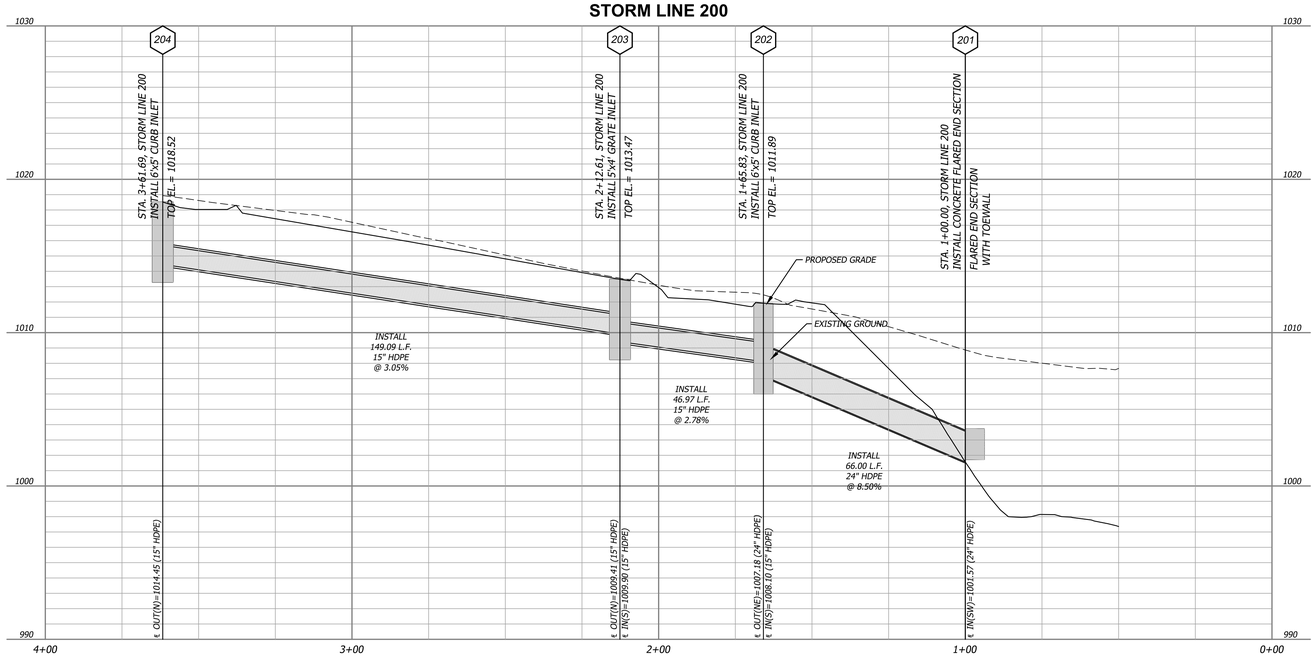
STORM NOTE

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GRAPHIC SCALE
20 0 20

STORM LINE 200



20 0 20
5
0
PROFILE
GRAPHIC SCALE

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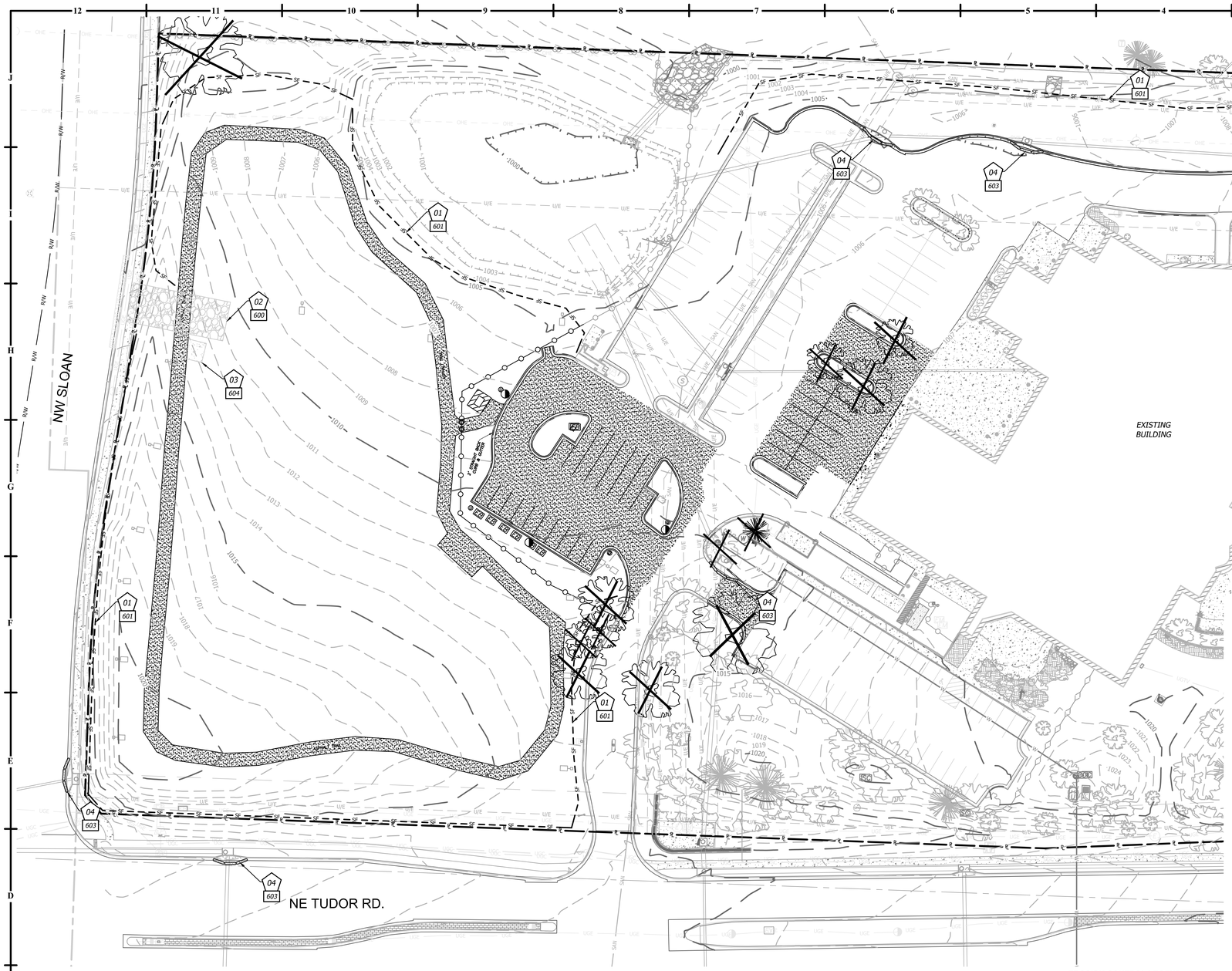
STATE OF MISSOURI
MICHAEL J. MAKRIS
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2024-10-30

PROFESSIONAL SEAL

C5.1

ISSUE DATE: AUGUST 30, 2024
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STORM PLAN & PROFILE



EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. Prior to Land Disturbance activities, the contractor shall:
   - Delineate the outer limits of any natural stream corridor designated with construction fencing.
   - Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
   - Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City inspector and in conformance with the erosion and sediment control plan.

2. The contractor shall comply with all requirements of the Storm Water Pollution Prevention Plan, including but not limited to:
   - The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has ceased for more than 14 days.
   - The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:
     - o During active construction phases - at least once per week
     - o During periods of inactivity - at least once per 14 days
     - o After each rainfall event of ½ inch or more - within 24 hours of the rain event
   - The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be available for review by the regulatory authority.
   - The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for review by the regulatory authority.

3. Unless otherwise noted in the plans, all seeding must conform to Division II-Construction and Materials Specification-Section 2150 published by the Kansas City Metropolitan Chapter of the American Public Works Association dated May 21, 2008. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season as specified in Section 2150. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over the entire disturbed area.

4. The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site intended to be left undisturbed, a storm sewer, or an on-site drainage channel.

5. The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the contractor shall install additional or alternate measures that provide effective control.

6. Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place.

7. Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law and immediate actions taken to contain them.

8. Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay installation.

9. Interior Silt Fence as necessary during construction. Portions may be limited as vegetation is established and hardscape is installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.

10. Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the City of Lee's Summit with reports and documentation.

GRAPHIC SCALE
30 0 30

000 DETAILS
- *SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING*

600 TEMPORARY CONSTRUCTION ENTRANCE
601 FILTER FABRIC SILT FENCE
603 STORM INLET PROTECTION
604 CONCRETE WASH-OUT

EROSION CONTROL LEGEND
- DISTURBED AREA
- SF SILT/SEDIMENT FENCE
- INLET PROTECTION FILTER BAGS
- CONSTRUCTION ENTRANCE
- STAGING AREA
- CONCRETE CLEANOUT
- EXISTING TREE TO BE REMOVED

EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE-CON)	A - Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
		02	Concrete Entrance & Staging Area	D	Place as shown on plan
		03	Concrete Wash-Out	D	Place as shown on plan
		04	Existing Inlet Protection	E	Place as shown on plan
Phase II (MID-CON)	B - After Stripping, Grubbing, & Mass Grading	05	Interior Silt Fence	E	Place as shown on plan
	C - After Utility Storm Sewer Construction	06	Storm Inlet Protection	D	Place as shown on plan
Phase III (POST-CON)	D - After Construction of Building and Parking Lot	07	Storm Inlet Protection	E	Place as shown on plan
	E - Final Grading, Paving & Landscaping	08	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site. (RE: L1.1 Landscape Plan for the stormwater treatment facility)

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:
01 ADDENDUM 01 2024-10-30

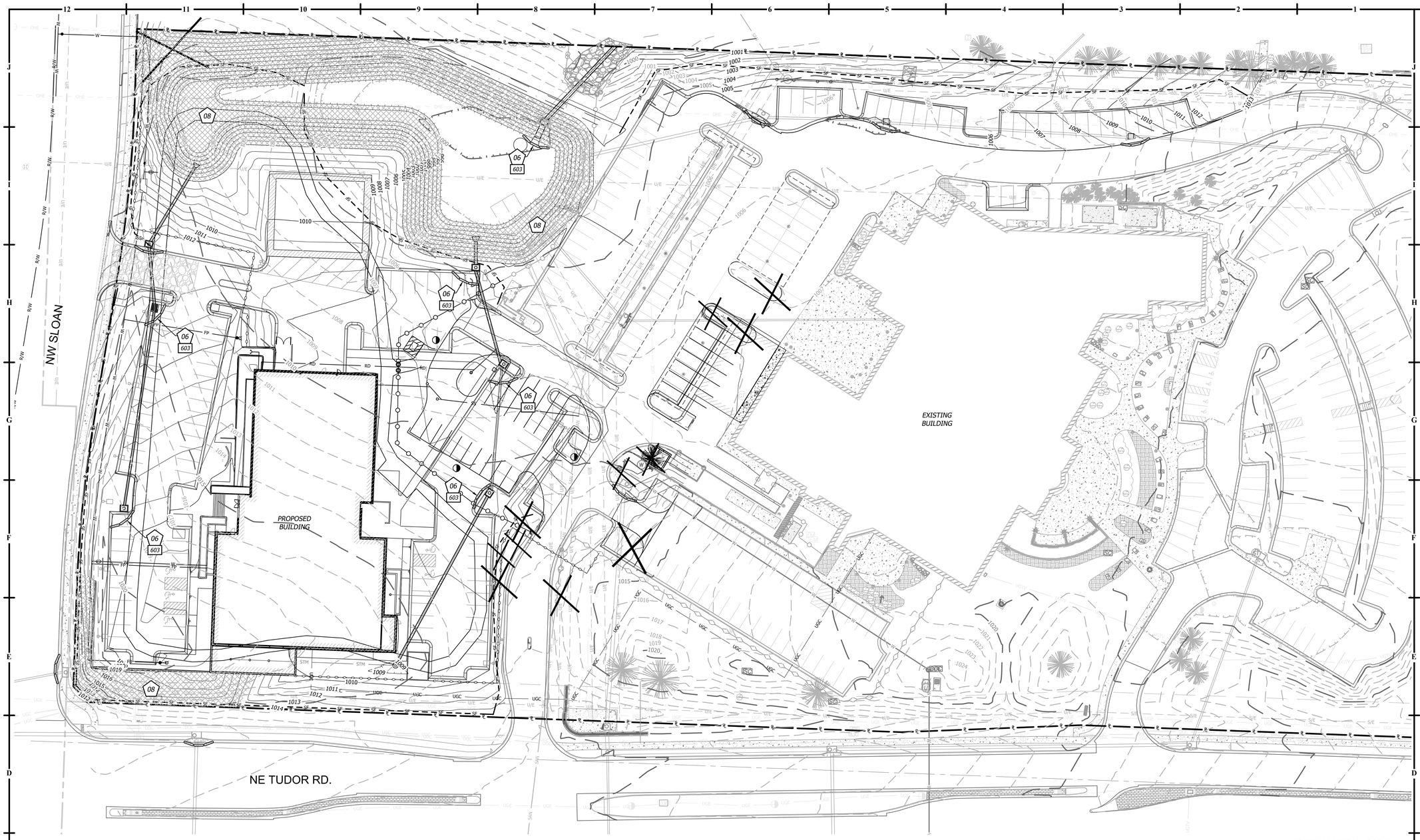
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MICHAEL J. MAKRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

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ISSUE DATE: AUGUST 30, 2024
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EROSION CONTROL PLAN



GRAPHIC SCALE
40 0 40

EROSION CONTROL LEGEND

- DISTURBED AREA
- SF — SILT/SEDIMENT FENCE
- INLET PROTECTION FILTER BAGS
- CONSTRUCTION ENTRANCE
- STAGING AREA
- CONCRETE CLEANOUT
- STEEP SLOPE PROTECTION

000 DETAILS

- SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

600 TEMPORARY CONSTRUCTION ENTRANCE
601 FILTER FABRIC SILT FENCE
603 STORM INLET PROTECTION
604 CONCRETE WASH-OUT

EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE-CON)	A - Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

PACKAGE 1: SITE AND STRUCTURE

REVISION DATES:

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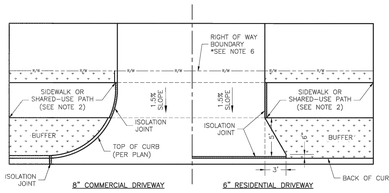
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MICHAEL J. MAKRIS
NUMBER PE-2021035266
PROFESSIONAL ENGINEER
2024-10-30

PROFESSIONAL SEAL

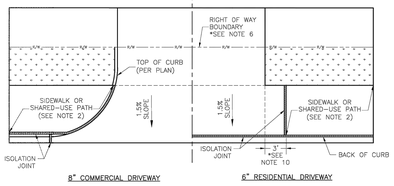
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ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

EROSION CONTROL PLAN



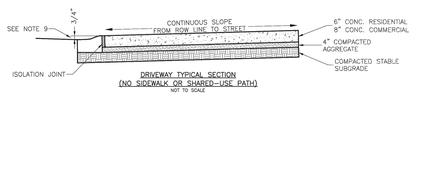
DRIVEWAY WITH BUFFER
NOT TO SCALE



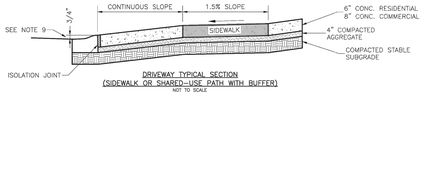
DRIVEWAY WITHOUT BUFFER
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GENERAL NOTES

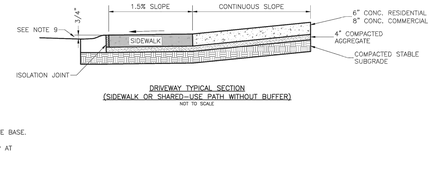
1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
3. JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
4. KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
5. COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
6. RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEED TO BE APPROVED BY CITY INSPECTOR.
7. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
9. ¾" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
10. SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
11. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.



DRIVEWAY TYPICAL SECTION
(NO SIDEWALK OR SHARED-USE PATH)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITH BUFFER)
NOT TO SCALE



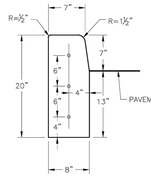
DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)
NOT TO SCALE

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

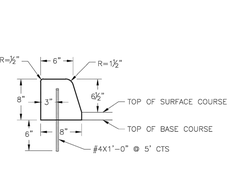
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
DRIVEWAY DETAIL

Drawn By: MJF
Checked By: DL
Date: 06/2021
Proj. #:

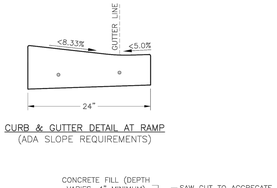
GEN-1



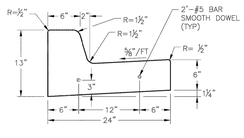
STRAIGHT CURB
(TYPE C-1)



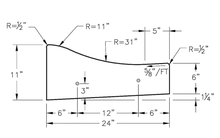
DOWELLED CURB
(TYPE DC)



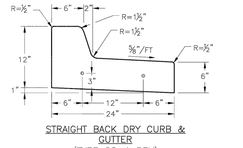
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



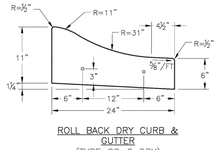
STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



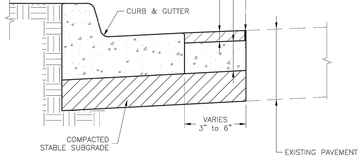
ROLL BACK CURB & GUTTER
(TYPE CG-2)



STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)



ROLL BACK DRY CURB & GUTTER
(TYPE CG-2 DRY)



CURB REPLACEMENT DETAIL

GENERAL NOTES

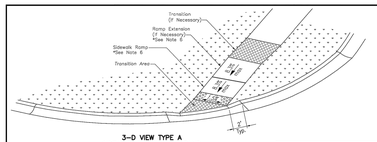
1. ¾" ISOLATION JOINTS WITH 2 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
8. ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

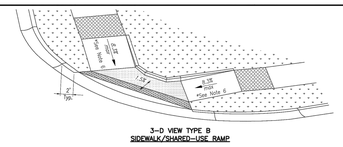
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL

Drawn By: MJF
Checked By: DL
Date: 06/2021
Proj. #:

GEN-4



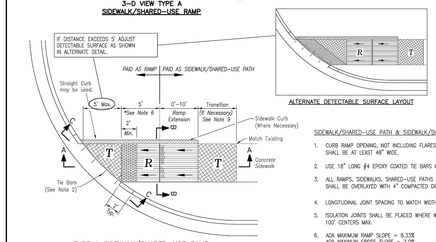
3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP



3-D VIEW TYPE B
SIDEWALK/SHARED-USE RAMP

LEGEND

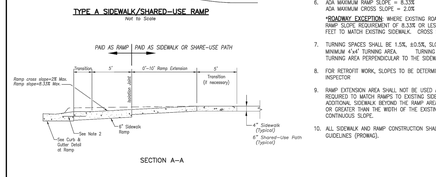
- R — SIDEWALK RAMP
- TS — TURNING SPACE
- DETECTABLE WARNING SURFACE
- T — TRANSITION



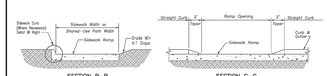
TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale

SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C., EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 100' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
   ADA MAXIMUM CROSS SLOPE = 2.0%
   ***ROADWAY EXCEPTION**: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
7. TURNING SPACES SHALL BE 1.5%, ±0.5%, SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



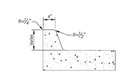
SECTION A-A



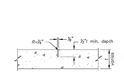
SECTION B-B

SECTION C-C

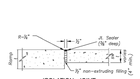
TYPE A & B SIDEWALK RAMP
Not to Scale



SIDEWALK CURB DETAIL
Not to Scale



CONTRACTION JOINT

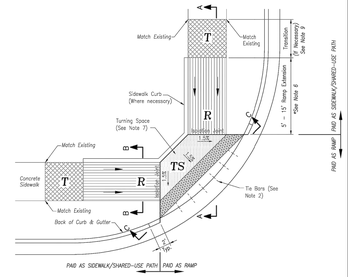


ISOLATION JOINT

JOINT DETAILS
Not to Scale



CURB & GUTTER DETAIL AT RAMP
Not to Scale



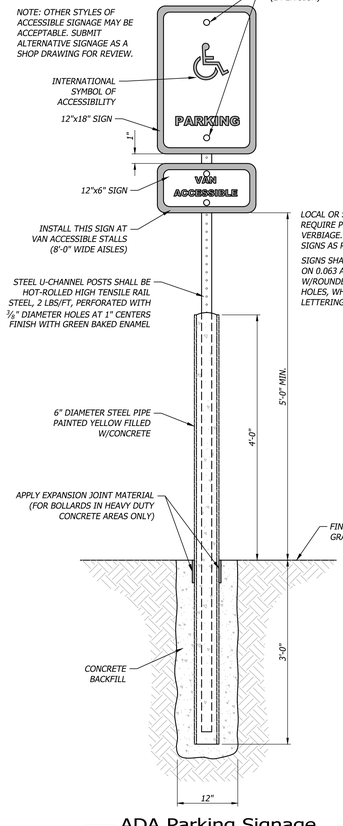
TYPE B SIDEWALK/SHARED-USE RAMP
Not to Scale

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MJF
Checked By: DL
Date: 06/2021
Proj. #:

GEN-3A



022 ADA Parking Signage
Not to Scale

HOEFER WELKER
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SUITE 1400
KANSAS CITY, MO 64112
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Overland Park, Kansas 66210
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

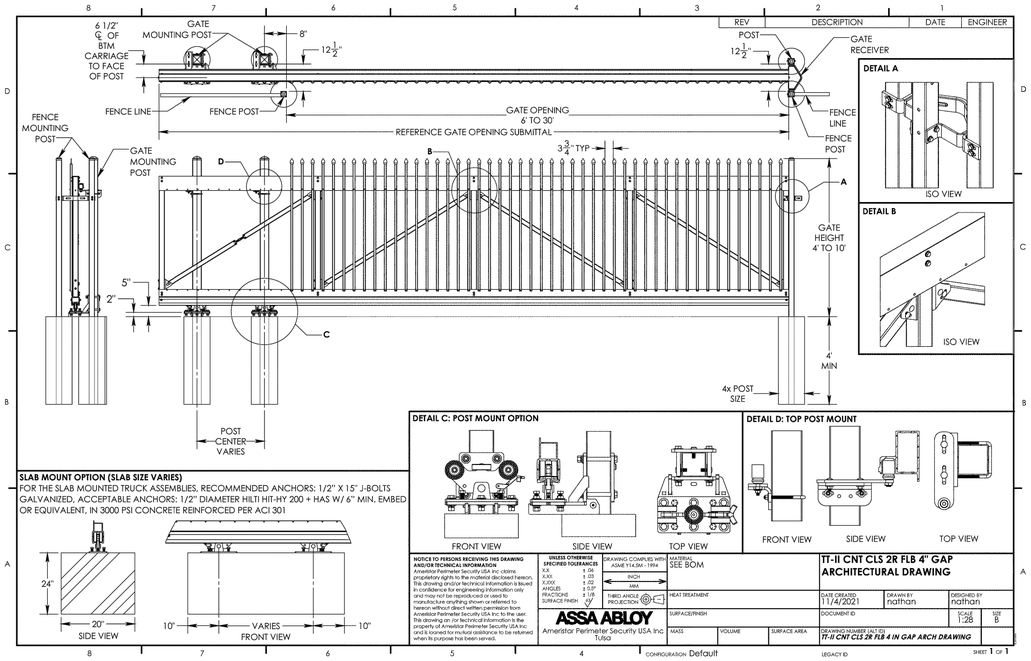
STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035336
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C7.0

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

CIVIL DETAILS 1



REV	DESCRIPTION	DATE	ENGINEER

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DRAWING COMPLIES WITH ASME Y14.5M - 1994 | MATERIAL SEE BOM | INCH MM | THIRD ANGLE PROJECTION | HEAT TREATMENT | SURFACE/FINISH

ASSA ABLOY
Ameristar Perimeter Security USA Inc
Tulsa

MASS | VOLUME | SURFACE AREA

CONFIGURATION: Default

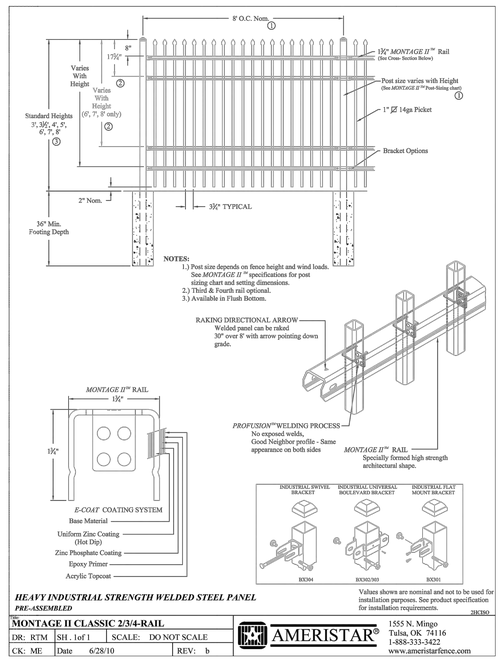
TT-II CNT CLS 2R FLB 4" GAP ARCHITECTURAL DRAWING

DATE CREATED: 11/4/2021 | DRAWN BY: nathan | DESIGNED BY: nathan | SCALE: 1:28 | SIZE: B

DRAWING NUMBER (AUTO): TT-II CNT CLS 2R FLB 4 IN GAP ARCH DRAWING

LEGACY ID

SHEET 1 OF 1



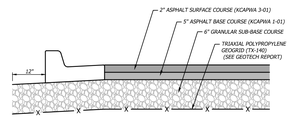
HEAVY INDUSTRIAL STRENGTH WELDED STEEL PANEL
PRE-ASSEMBLED

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.
28CS60

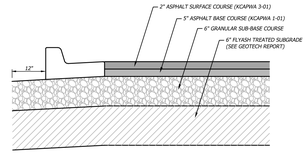
MONTAGE II CLASSIC 2/3/4-RAIL

DR: RTM	SH . 1of 1	SCALE: DO NOT SCALE
CK: ME	Date 6/28/10	REV: b

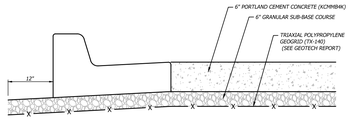
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Tulsa, OK 74116
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www.ameristarfence.com



Medium Duty Asphalt Pavement
Option 1
004 Not to Scale



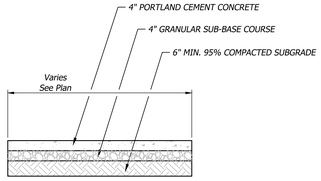
Medium Duty Asphalt Pavement
Option 2
004 Not to Scale



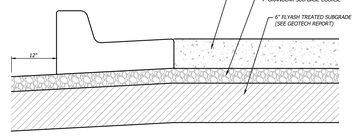
Medium Duty Concrete Pavement
Option 1
005 Not to Scale

NOTES:

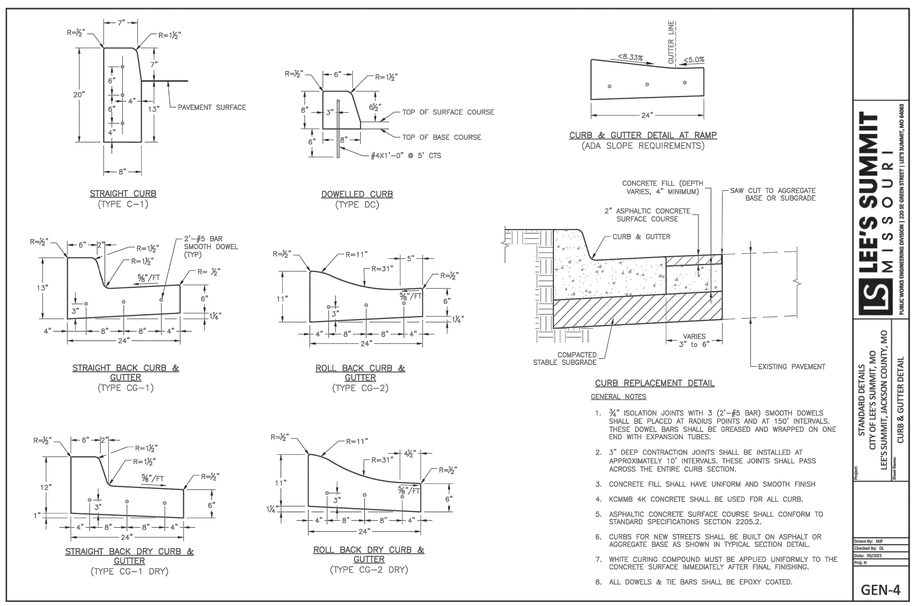
1. *CONTROL JOINT SPACING SHALL MATCH WIDTH OF SIDEWALK.*
2. *ISOLATION JOINTS SHALL BE PLACED @ 250' CENTERS OR WHERE WALKS ABUT CURBS, BUILDINGS, ETC....*
3. *ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH.*



014 Concrete Sidewalk Section
Not to Scale



Medium Duty Concrete Pavement
Option 2
005 Not to Scale



GENERAL NOTES

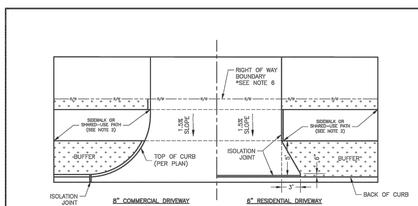
1. ¾" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
8. ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

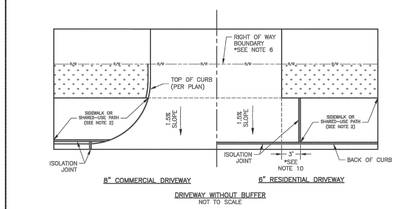
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL

Drawn By: MJF | Checked By: DL | Date: 05/2021 | Proj. #:

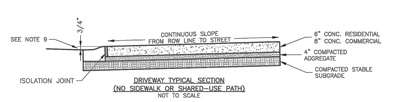
GEN-4



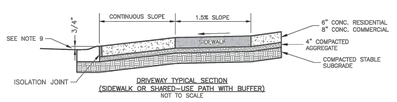
DRIVEWAY WITH BUFFER
NOT TO SCALE



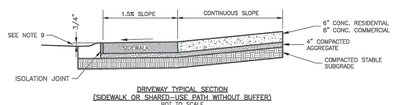
DRIVEWAY WITHOUT BUFFER
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(NO SIDEWALK OR SHARED-USE PATH)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITH BUFFER)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)
NOT TO SCALE

GENERAL NOTES

1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
3. JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
4. KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
5. COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
6. RESIDENTIAL DRIVEWAYS, IN PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEED TO BE APPROVED BY PUBLIC WORKS.
7. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
9. ¾" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
10. SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
11. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
DRIVEWAY DETAIL

Drawn By: MJF | Checked By: DL | Date: 05/2021 | Proj. #:

GEN-1

HOEFER WELKER
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KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

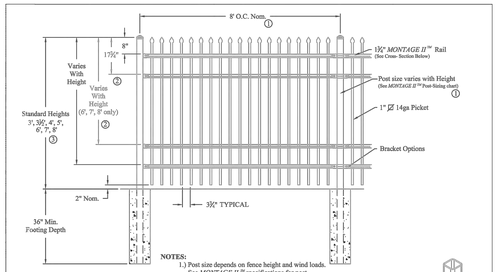
STATE OF MISSOURI
MICHAEL J. MARRIS
NUMBER PE-2021035286
2024-10-30
REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

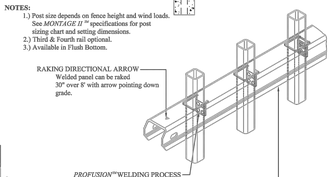
C7.1

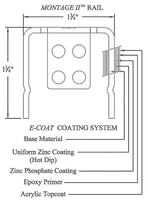
ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

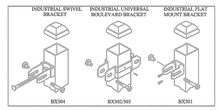
CIVIL DETAILS 2



NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE II ™* specifications for post sizing chart and setting dimensions.
2.) Third & Fourth rail optional.
3.) Available in Flush Bottom.







HEAVY INDUSTRIAL STRENGTH WELDED STEEL PANEL
PRE-ASSEMBLED

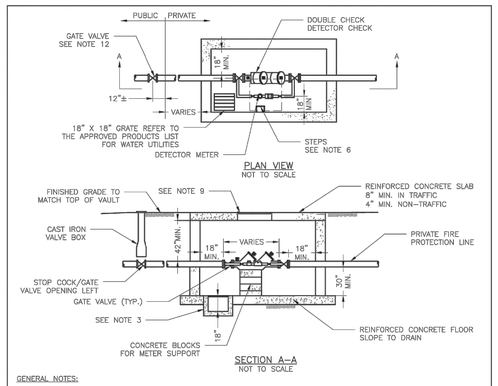
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

28K360

MONTAGE II CLASSIC 2/3/4-RAIL

DR: RTM	SH . 1of 1	SCALE: DO NOT SCALE	
CK: ME	Date 6/28/10		REV: b

AMERISTAR®
1555 N. Mingo
Tulsa, OK 74116
1-888-333-3422
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GENERAL NOTES:

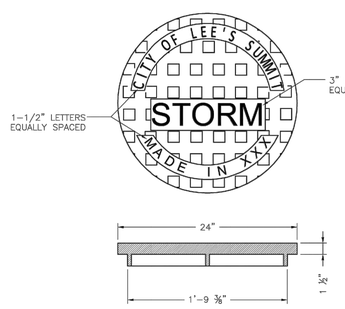
1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.
2. METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.
3. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL, PROVIDE A 2" PIPE DRAIN WITH AN ABOVE-GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY INSTALLED SUMP PUMP.
4. ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
5. ALL FITTINGS TO BE BRASS.
6. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
7. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816-969-1940. AS OF JANUARY 1, 1987, THE DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.
8. ALL VALVES SHALL HAVE RISING STEMS.
9. FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES SUITABLE FOR EITHER TRAFFIC OR NON-TRAFFIC CONDITIONS.
10. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
11. METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.
12. IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

VAULT FOR DOUBLE CHECK DETECTOR CHECK

Date: 02/2016
Drawn By: JN
Checked By: DL

WAT-12



STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

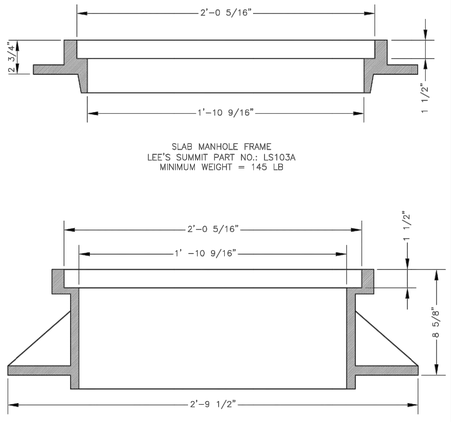
*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE COVER DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-6



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB

STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

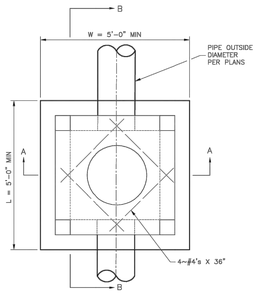
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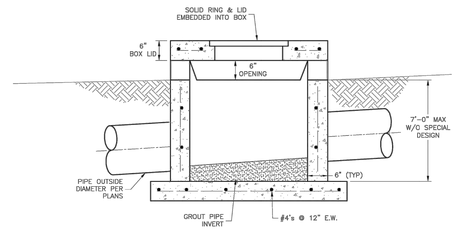
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

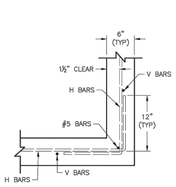
STORM MANHOLE FRAME DETAIL

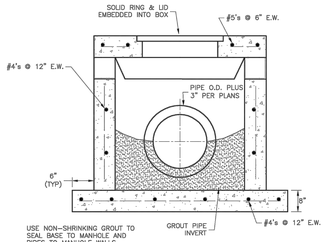
Date: 04/17
Drawn By: MJF
Checked By: DL

STM-7









GENERAL NOTES:

1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
2. USE ¾" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
6. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

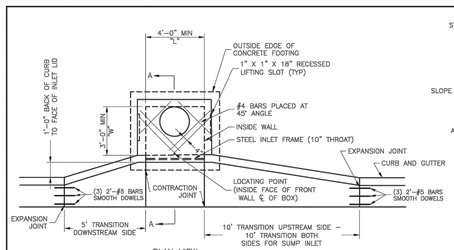
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

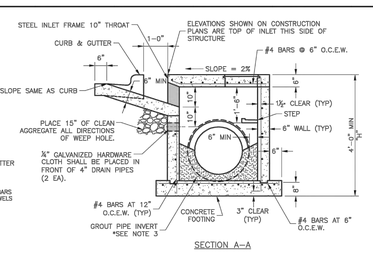
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
FIELD INLET DETAIL

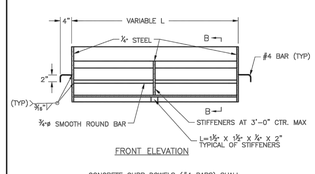
Project:
Sheet No.:

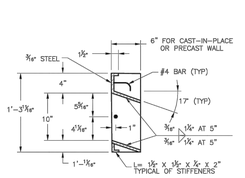
Drawn By: MJF
Checked By: DL
Date: 09/17
Proj. #:

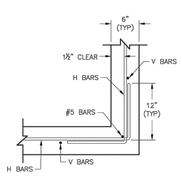
STM-2

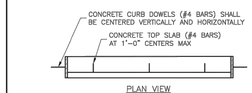












STEEL FRAME NOTES:
1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM-PRIME #37H-78 PRIMER (GRAY) OR EQUAL.

GENERAL NOTES:
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
5. STEPS SHALL BE SPACED AT 1'–4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
6. BEVEL ALL EXPOSED EDGES WITH ¾"CHAMFER OR ½" TOOLED EDGE.
7. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB INLET DETAIL

Project:
Sheet No.:

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-1

HOEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
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www.hoeferwelker.com

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C7.2

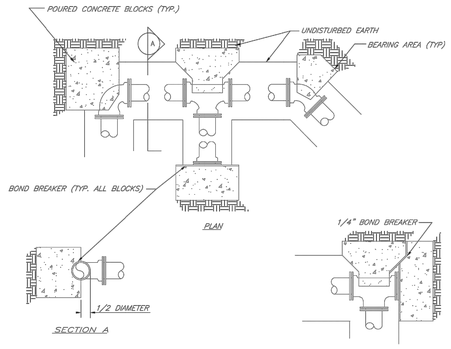
ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

CIVIL DETAILS 3

REQUIRED CONCRETE BEARING AREA (SQUARE FEET – SF)

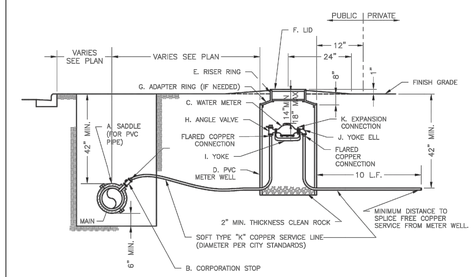
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HORIZONTAL THRUST BLOCKS

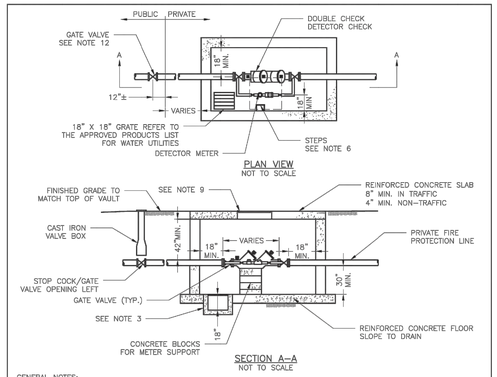
Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-1 | Rev: 1/14 | Rev:



NOTES:
1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
3. CITY TO FURNISH ITEMS A–K.
4. NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
5. 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
6. EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
7. NO SPLICES ALLOWED BETWEEN METER AND MAIN.
8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
9. LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
10. CONTACT WATER UTILITIES, 816–969–1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
SERVICE CONNECTION WITH METER WELL

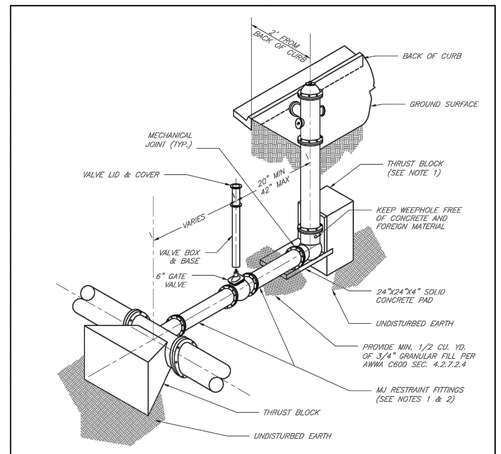
Date: 09/2015 | Drawn By: JN | Checked By: DL | WAT-11



GENERAL NOTES:
1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.
2. METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.
3. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL, PROVIDE A 2" PIPE DRAIN WITH AN ABOVE–GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY INSTALLED SUMP PUMP.
4. ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
5. ALL FITTINGS TO BE BRASS.
6. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
7. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816–969–1940. AS OF JANUARY 1, 1987, THE DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.
8. ALL VALVES SHALL HAVE RISING STEMS.
9. FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES SUITABLE FOR EITHER TRAFFIC OR NON–TRAFFIC CONDITIONS.
10. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
11. METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.
12. IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
VAULT FOR DOUBLE CHECK DETECTOR CHECK

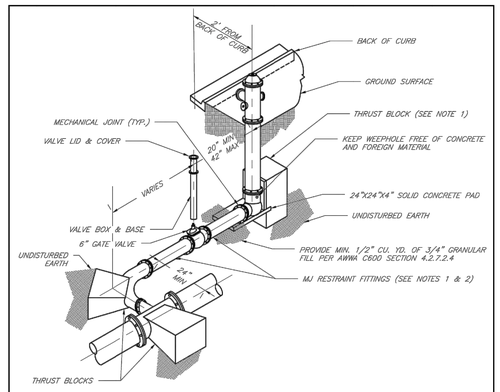
Date: 02/2016 | Drawn By: JN | Checked By: DL | WAT-12



NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HYDRANT INSTALLATION – STRAIGHT SET

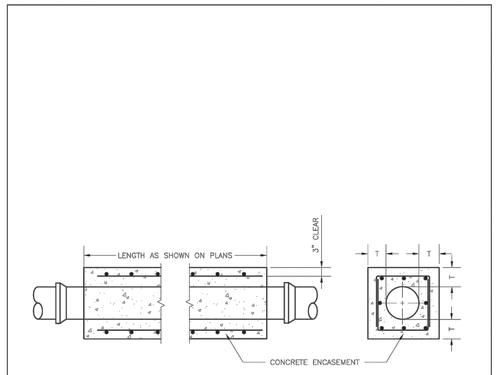
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NOTES:
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6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HYDRANT WITH 90 DEGREE BEND

Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT–8 | Rev: 1/14 | Rev:



NOTES:
1. FOR PIPES LESS THAN 15", T = 6" MIN.
2. FOR PIPES 15" THRU 36", T = 8" MIN.
3. INTERMEDIATE BELLS SHALL BE ENCASED.
4. REINFORCING STEEL SHALL BE #4 @ 12" O.C. EACH WAY WITH A MINIMUM REBAR LAP OF 12".

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
PIPE ENCASEMENT DETAIL

Date: 01/2016 | Drawn By: JN | Checked By: DL | SAN-7

HOEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
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www.hoeferwelker.com

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:
01 ADDENDUM 01 2024-10-30

STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035386
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C7.3

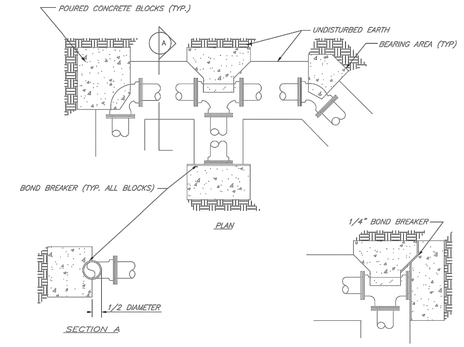
ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

CIVIL DETAILS 4

REQUIRED CONCRETE BEARING AREA (SQUARE FEET – SF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

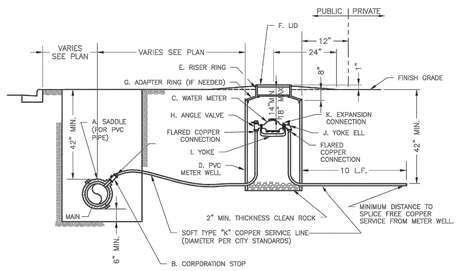
NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HORIZONTAL THRUST BLOCKS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-1
Rev: 1/14
Rev:



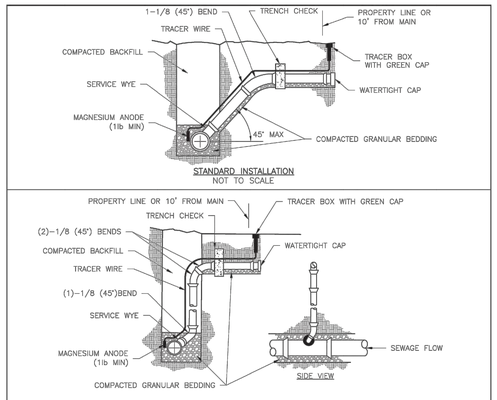
NOTES:
1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
3. CITY TO FURNISH ITEMS A–K.
4. NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
5. 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
6. EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
7. NO SPLICES ALLOWED BETWEEN METER AND MAIN.
8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
9 LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
10. CONTACT WATER UTILITIES, 816–969–1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SERVICE CONNECTION WITH METER WELL

Date: 06/2015
Drawn By: JN
Checked By: DL

WAT-11



STANDARD INSTALLATION
NOT TO SCALE

VERTICAL RISER
NOT TO SCALE

NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHICHEVER IS GREATER. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
3. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12", THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
4. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
5. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
6. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
7. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
8. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER–PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SANITARY SEWER STUB DETAIL

Date: 12/2015
Drawn By: MIF
Checked By: DL

SAN-1

HOEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com

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CIVIL ENGINEERING / SURVEYING / UTILITIES
7101 College Blvd., Suite 400
Overland Park, Kansas 66210
p. (913) 663-1900

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:
01 ADDENDUM 01 2024-10-30

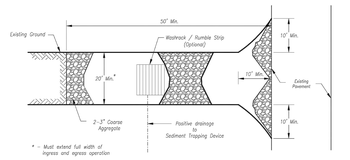
STATE OF MISSOURI
MICHAEL J. MAKRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

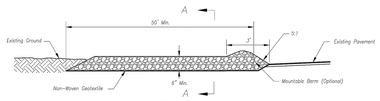
C7.4

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

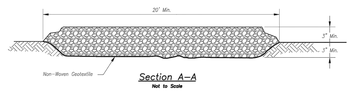
CIVIL DETAILS 5



Plan View
Not to Scale



Side Elevation
Not to Scale



Section A-A
Not to Scale

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

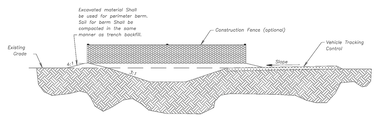
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized based on the volume of concrete to be placed. The slopes leading out of the subsurface pit shall be 2:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area, and other locations as necessary to clearly direct personnel to the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

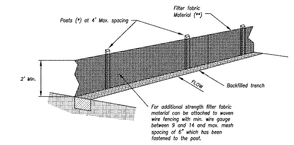
1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
3. Concrete washout water, washed pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable material, compacted, and any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

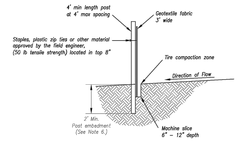


CONCRETE WASHOUT

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
STANDARD DRAWING NUMBER ESC-01
ADOPTED: 10/24/2016





(*) POSTS
- MIN. LENGTH 4'
- HARDWOOD 1 ⅛" x 1 ⅛"
- NO.2 SOUTHERN PINE 2 ⅛" x 2 ⅛"
- STEEL 1.33 LB/FT

(**) - Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS
Not to Scale

Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2" into the ground.
6. Trenching will only be allowed for small or difficult installations, where slicing machine cannot be reasonably used.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of silt fence.
2. Repair as necessary to maintain function and structure.

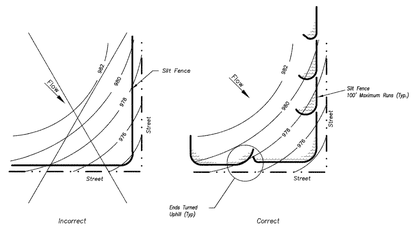
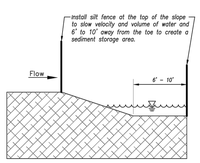
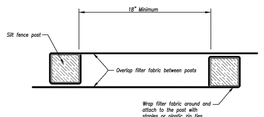


Figure A



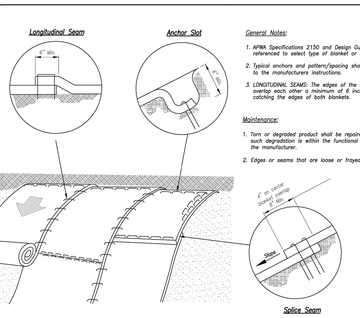


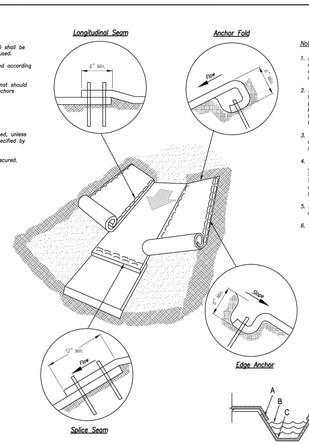
JOINING FENCE SECTIONS
Not to Scale

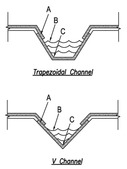
SILT FENCE LAYOUT
Not to Scale

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
SILT FENCE
STANDARD DRAWING NUMBER ESC-03
ADOPTED: 10/24/2016



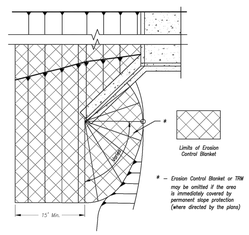




Installation in Channels

Notes for Installation on Slopes:

1. Erosion Control Blankets and TRMs shall be laid in the direction of the slope. In order for blanket to be in contact with the soil, lay blanket loosely, avoiding stretching.
2. ANCHOR SLOTS: The top of the blanket should be "slotted in" at the top of the slope and anchored in place with anchors 6 inches apart. The slots should be 6 inches wide x 6 inches deep with the blanket anchored in the bottom of the slot, then backfilled, tamped and seeded.
3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 8 inches in direction of water flow. Stagger splice seams.
4. TERMINAL FOLD: The bottom edge of the blanket shall be turned under a minimum of 4 inches, then anchored in place with anchors 9 inches apart.



- Erosion Control Blanket or TRM may be omitted if the area is immediately covered by permanent slope protection (where directed by the plans)

Partial Box Culvert Plan
Not to Scale

Installation Around Culvert Slope

Notes for Installation in Channels:

1. Erosion Control Blankets and TRMs shall be laid in the direction of the flow, with the first course at the centerline of channel, where applicable. In order for the mat to be in contact with the soil, lay the mat loosely, avoiding stretching.
2. ANCHOR FOLD: The top of the mat should be folded under, buried and secured with wood or other approved anchors placed 6 inches apart. The top edge of the mat should be buried in a slot 6 inches wide x 6 inches deep, anchored in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.
3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 12 inches in direction of water flow. Stagger splice seams.
4. CHECK SLOTS: Establish check slots transverse to slope every 30 feet. The slots should be 6 inches wide x 6 inches deep. The mat shall be cut to a length 12 inches beyond the slot. The top of the downstream mat shall be slotted in, secured and buried similar to the edge anchor fold. The upstream mat shall then cover the slot and be anchored as shown.
5. EDGE ANCHORS: Lay outside edge of mat into trench at top of the slope and anchor.
6. TERMINUS: The bottom edge of the mat shall be anchored.

Critical Points:

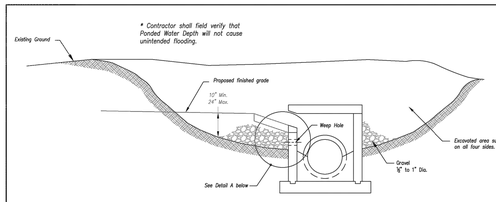
A – Overlaps and seams;

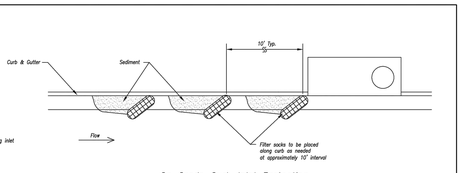
B – Projected water line;

C – Channel bottom / side slope vertices;

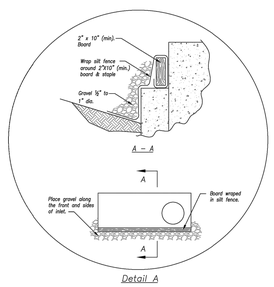
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
EROSION CONTROL BLANKETS AND TURF REINFORMENT MATS
STANDARD DRAWING NUMBER ESC-02
ADOPTED: 10/24/2016





On Grade Curb Inlet Protection

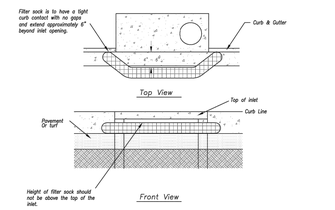


Notes:

1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" x 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
3. Contractor to field verify ponding water shall not create a traffic hazard.

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.



Sump Inlet Sediment Filter

EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)

LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
CURB INLET PROTECTION
STANDARD DRAWING NUMBER ESC-06
ADOPTED: 10/24/2016

HOEFER WELKER
4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 1: SITE AND STRUCTURE

10 NE TUDOR ROAD
LEES SUMMIT, MO 64086

REVISION DATES:

01	ADDENDUM 01	2024-10-30

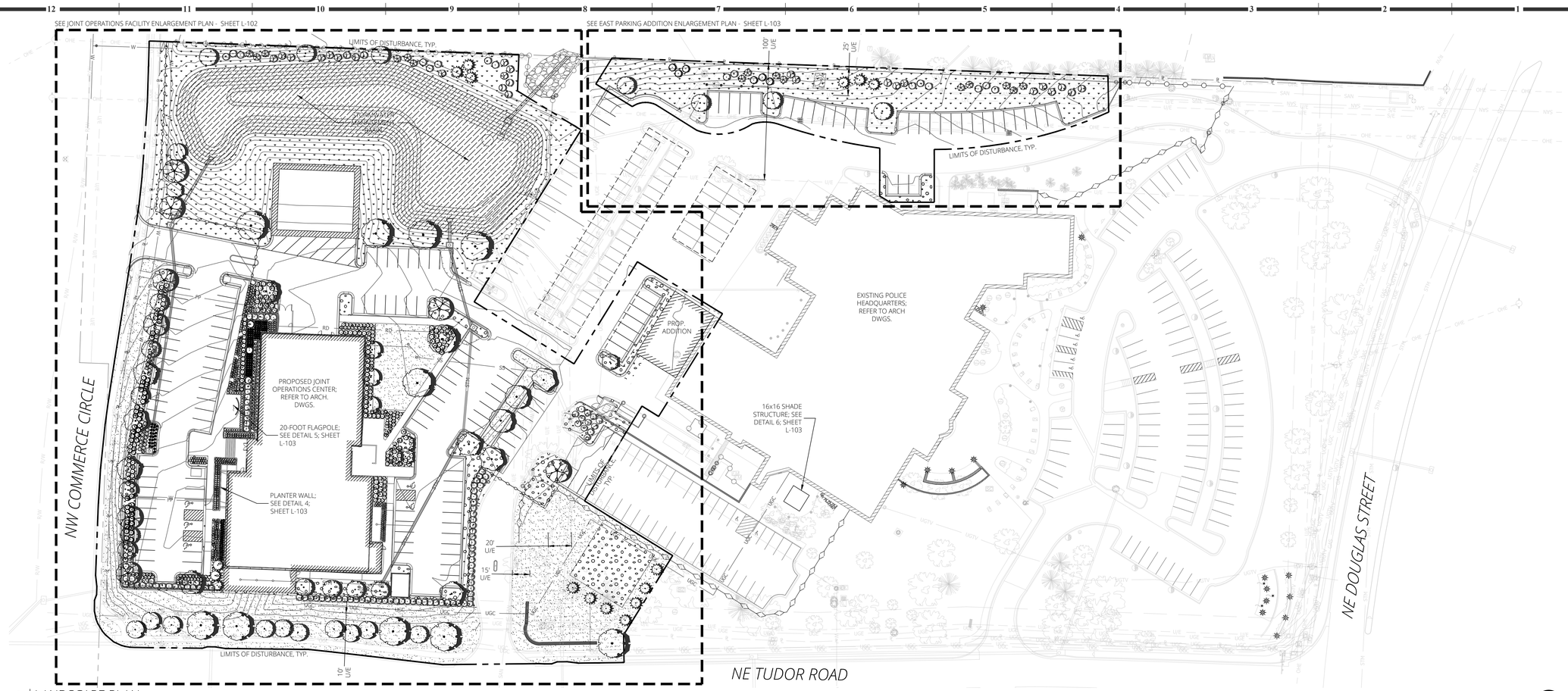
STATE OF MISSOURI
MICHAEL J. MARRIS
NUMBER PE-2021035286
2024-10-30
PROFESSIONAL ENGINEER

PROFESSIONAL SEAL

C7.5

ISSUE DATE: AUGUST 30, 2024
HOEFER WELKER #: 138161

EROSION CONTROL DETAILS



1 LANDSCAPE PLAN
SCALE = 1" = 40'

GRAPHIC SCALE 40' (0, 40', 80')

NORTH

LANDSCAPE NOTES

1. CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE COMMENCING WORK. CONTACT THE MISSOURI ONE CALL SYSTEM AT 1-800-DIG-RITE OR 811 TO FILE A LOCATE REQUEST PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO UTILITIES RESULTING FROM LANDSCAPE OPERATIONS. ANY UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MAY OR MAY NOT DEPICT THE ACTUAL LOCATION OF SERVICES.
2. QUANTITIES OF MATERIALS SHOWN ON THE LANDSCAPE PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON THE LANDSCAPE PLAN PRIOR TO BIDDING.
3. REPORT ANY DISCREPANCIES IN THE LANDSCAPE PLAN TO THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASING MATERIALS OR STARTING CONSTRUCTION.
4. ALL DISTURBED AREAS NOT PAVED OR COVERED BY BUILDINGS SHALL BE BROUGHT TO FINISH GRADE AND PLANTED WITH TURF OR OTHER APPROPRIATE GROUND COVERS.
5. ALL TREE AND SHRUB PITS SHALL BE AMENDED WITH A PLANTING SOIL MIX CONSISTING OF EXISTING SOIL, TOPSOIL, AND COMPOST TO MAKE A NEW SOIL WHICH MEETS THE PROJECT GOALS FOR THE INDICATED PLANTING AREAS. THESE COMPONENTS WILL BE MIXED ON-SITE IN THE FOLLOWING RATION (BY MOIST VOLUME): EXISTING SOIL, 65-70%; TOPSOIL (UNSCREENED), 25-30%; AND COMPOST, 5%. MIX THE TOPSOIL AND COMPOST TOGETHER FIRST AND THEN ADD TO THE EXISTING SOIL. MIX WITH A LOADER BUCKET TO LOOSELY INCORPORATE THE TOPSOIL/COMPOST MIX INTO THE EXISTING SOIL. DO NOT OVER MIX. DO NOT MIX WITH A SOIL BLENDING MACHINE. DO NOT SCREEN THE SOIL. CLUMPS OF TOPSOIL, COMPOST AND EXISTING SOIL WILL BE PERMITTED IN THE OVERALL MIX.
6. ALL TREES AND SHRUBS SHALL BE WELL-FORMED AND DEVELOPED IN GOOD CONDITION, HEALTHY AND DISEASE-FREE, AND BE TYPICAL OF THE SPECIES. PLANTS SHALL COMPLY WITH ACCEPTABLE STANDARDS AS SET FORTH IN THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK."
7. APPLY A 3" LAYER OF DECORATIVE GRAVEL OVER NON-WOVEN GEOTEXTILE FABRIC IN ALL PLANTING BEDS. GRAVEL SHOULD NOT COME IN CONTACT WITH PLANT TRUNKS OR STEMS.
8. ALL TURF AREAS SHALL BE SEPARATED FROM BUILDING FOUNDATION WALLS, RETAILNG WALLS, AND FENCES BY AN AGGREGATE MOW STRIP 18 INCHES IN WIDTH, 6 INCHES IN DEPTH, AND CONSISTING OF 1-3" DIAMETER DECORATIVE GRAVEL. REFER TO SHEET L-103, DETAIL #3.
9. ALL PLANTING BEDS AND AGGREGATE MOW STRIPS MUST BE SEPARATED FROM TURF AREAS WITH STEEL LANDSCAPE EDGING. INSTALL "BORDER KING STEEL LANDSCAPE EDGING" MANUFACTURED BY BORDER CONCEPTS, INC., OR APPROVED EQUAL.
10. TURF SOD SHALL BE CERTIFIED TURF GRASS SOD COMPLYING WITH TURFGRASS PRODUCERS INTERNATIONAL'S "GUIDELINE SPECIFICATIONS FOR TURFGRASS SODDING." SOD SHALL BE TURF-TYPE TALL FESCUE HARVESTED FROM A SOD FARM LOCATED WITHIN 100 MILES OF THE PROJECT SITE. SODS SHALL BE WELL ROOTED, 2-YEAR OLD STOCK HARVESTED IN ROLLS AND FERTILIZED 2-3 WEEKS PRIOR TO CUTTING. ALL SOD SHALL BE MACHINE CUT AND VIGOROUSLY GROWING (NOT DORMANT). MAXIMUM TIME FROM STRIPPING TO PLANTING SHALL BE 24 HOURS.
18. TURF SEED SHALL COMPLY WITH U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT AND BE EQUAL IN QUALITY TO STANDARDS FOR CERTIFIED SEED. SEED SHALL BE A TURF-TYPE FESCUE BLEND CONSISTING OF 85% TURF-TYPE TALL FESCUE, 10% KENTUCKY BLUEGRASS, AND 5% ANNUAL RYEGRASS. ALL SEEDED AREAS SHALL BE MULCHED WITH STRAW OR HYDROMULCH AT TIME OF INSTALLATION UNTIL SEED HAS ESTABLISHED.
19. NATIVE WETLAND SEED MIX SHALL CONSIST OF PRE-MIXED WETLAND TOLERANT PLANT SEED OF A MINIMUM OF TWENTY (20) LOCAL NATIVE SPECIES, AS LISTED ON SHEET L1.01. PROVIDE "ALL-STAR FACW WETLAND MIX" BY STAR SEED, INC., OR APPROVED EQUAL. CONTACT STAR SEED BY PHONE: (800) 782-7311, FAX: (785) 346-2479, OR THEIR WEBSITE: WWW.GOSTARSEED.COM. BROADCAST SEED MIX BY USING AN AGITATING SPREADER (SUCH AS A VICON SEEDER) MOUNTED TO A TRACTOR OR ATV PER NURSERY DIRECTIONS. SOW EVENLY ACROSS THE SITE IN TWO DIRECTIONS PERPENDICULAR TO ONE ANOTHER AT A RATE NOT LESS THAN 20 POUNDS PURE LIVE SEED (PLS) PER ACRE.SEED MIX INSTALLATION SHALL OCCUR EITHER BETWEEN THE DATES OF NOVEMBER 1 AND FEBRUARY 28 OR APRIL 1 AND JUNE 15. COORDINATE INSTALLATION OF SEED MIX WITH THE EROSION CONTROL CONTRACTOR.
20. CONTRACTOR SHALL USE AN APPROVED TREE GUYING SYSTEM. TREE GUYING TO BE FLAT WOVEN POLYPROPYLENE MATERIAL, 3/4-INCH-WIDE, WITH A TENSILE STRENGTH OF 900 LBS. HOSE AND WIRE WILL NOT BE ACCEPTED. CONTRACTOR SHALL PROVIDE ONE OF THE FOLLOWING PRODUCTS, OR APPROVED EQUAL: "ARBORTIE GREEN" MANUFACTURED BY DEEP ROOT PARTNERS, LP, OR "LEONARD TREE TIE WEBBING GREEN" MANUFACTURED BY A.M. LEONARD, INC.
21. REMOVE ALL RUBBISH, EQUIPMENT, AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES. REMOVE SOIL OR DIRT THAT ACCUMULATES DUE TO PLANTING OPERATIONS EACH DAY.
22. AT THE COMPLETION OF PLANTING OPERATIONS ALL PLANTS SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL REPLACE IMMEDIATELY ANY PLANTS NOT IN HEALTHY AND VIGOROUS CONDITION AT THAT TIME AT NO EXPENSE TO THE OWNER. ANY PLANT NOT IN HEALTHY CONDITION AFTER ONE FULL YEAR FROM THE DATE OF FINAL ACCEPTANCE SHALL BE REPLACED AS PER THE ORIGINAL SPECIFICATIONS, FREE OF CHARGE TO THE OWNER.
23. CONTRACTOR SHALL GUARANTEE TREES, SHRUBS, PERENNIALS AND TURF FOR ONE CALENDAR YEAR FOLLOWING PROVISIONAL ACCEPTANCE OF THE OVERALL PROJECT. DURING THE GUARANTEE PERIOD, PLANTS THAT DIE DUE TO NATURAL CAUSES OR THAT ARE UNHEALTHY OR UNSIGHTLY IN CONDITION, SHALL BE REPLACED BY THE CONTRACTOR. PLANTS USED FOR THE REPLACEMENT SHALL BE OF THE SAME VARIETY AND SIZE AS ORIGINALLY SPECIFIED IN THE PLANT SCHEDULE. REPLACEMENTS SHALL BE MADE WITHIN ONE WEEK OF REQUEST PENDING FAVORABLE SEASONAL PLANTING CONDITIONS.

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL	SIZE
DECIDUOUS TREES						
	AC	8	CADDO SUGAR MAPLE / ACER SACCHARUM `CADDO`	B & B	2.5"CAL	
	GB	6	MAIDENHAIR TREE / GINKGO BILOBA	B & B	2.5"CAL	
	PB	5	BLOODGOOD LONDON PLANE TREE / PLATANUS X ACERIFOLIA 'BLOODGOOD'	B & B	2.5"CAL	
	QB	3	SWAMP WHITE OAK / QUERCUS BICOLOR	B & B	2.5"CAL	
	QS	5	SHUMARD OAK / QUERCUS SHUMARDII	B & B	2.5"CAL	
	TA	3	BOULEVARD AMERICAN LINDEN / TILIA AMERICANA 'BOULEVARD'	B & B	2.5"CAL	
EVERGREEN TREES						
	JP	16	PERFECTA JUNIPER / JUNIPERUS CHINENSIS 'PERFECTA'	B & B		5`-6` TALL
	JT	9	TAYLOR EASTERN REDCEDAR / JUNIPERUS VIRGINIANA `TAYLOR`	B & B		5`-6` TALL
ORNAMENTAL TREES						
	AG	13	AUTUMN BRILLIANCE SERVICEBERRY / AMELANCHIER X GRANDIFLORA `AUTUMN BRILLIANCE`	B & B	1.5"CAL	
	CC	18	EASTERN REDBUD / CERCIS CANADENSIS	B & B	1.5"CAL	
	MR2	5	ROYAL RAINDROPS CRABAPPLE / MALUS X 'ROYAL RAINDROPS'	B & B	1.5"CAL	
SHRUBS						
	BT	32	SUNJOY TANGELO BARBERRY / BERBERIS THUNBERGII `SUNJOY TANGELO`		#3	
	BG	103	GREEN GEM BOXWOOD / BUXUS X 'GREEN GEM'		#5	
	CL	17	FIBER OPTICS BUTTONBUSH / CEPHALANTHUS OCCIDENTALIS 'BAILOPTICS'		#5	
	IS	74	SHAMROCK INKBERRY HOLLY / ILEX GLABRA 'SHAMROCK'		#3	
	JS	110	SEA GREEN PFITZER JUNIPER / JUNIPERUS X PFITZERIANA `SEA GREEN`		#5	
	PO	21	AMBER JUBILEE NINEBARK / PHYSOCARPUS OPULIFOLIUS `JEFAM`		#5	
	RG	52	GRO-LOW FRAGRANT SUMAC / RHUS AROMATICA `GRO-LOW`		#3	
	SE	15	BLACK LACE® ELDERBERRY / SAMBUCUS NIGRA 'EVA'		#5	
	SM	126	MAGIC CARPET JAPANESE SPIREA / SPIRAEA JAPONICA 'WALBUMA'		#3	
	TD	38	DENSIFORMIS YEW / TAXUS X MEDIA `DENSIFORMIS`		#5	
	VA	17	ARROWWOOD VIBURNUM / VIBURNUM DENTATUM		#5	
	VB	9	BLACKHAW VIBURNUM / VIBURNUM PRUNIFOLIUM		#5	

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT
GRASSES & PERENNIALS				
	CK	101	KARL FOERSTER FEATHER REED GRASS / CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	#1
	CP2	20	STIFF TICKSEED / COREOPSIS PALMATA	#1
	HR	113	RUBY SPIDER DAYLILY / HEMEROCALLIS X 'RUBY SPIDER'	#1
	PP	94	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA `PEEK-A-BLUE`	#1
	SP	77	PRAIRIE MUNCHKIN LITTLE BLUESTEM / SCHIZACHYRIUM SCOPARIUM `PRAIRIE MUNCHKIN`	#1
	ST	19	WILD STONECROP / SEDUM TERNATUM	#1
	SH	62	PRAIRIE DROPSEED / SPOROBOLUS HETEROLEPIS	#1
GROUND COVERS				
	DG	22,351 SF	DECORATIVE GRAVEL / 1" - 3" MISSOURI RAINBOW	ROCK
	TE	39,870 SF	TURF SEED / DROUGHT TOLERANT FESCUE BLEND	SEED
	TS	35,017 SF	TURF SOD / DROUGHT TOLERANT FESCUE BLEND	SOD
	WP	26,125 SF	NATIVE WETLAND SEED MIX / STORMWATER BMP PERENNIAL MIX	SEED

LANDSCAPE CODE SUMMARY

STREET FRONTAGE TREES (8.790.A.1)
REQUIRED: 1 TREE PER 30 FEET OF STREET FRONTAGE
NE TUDOR ROAD = 438 FEET / 30 = 15 TREES
NW COMMERCE CIRCLE = 502 FEET / 30 = 17 TREES
PROVIDED: NE TUDOR ROAD = 15 TREES
NW COMMERCE CIRCLE = 17 TREES

STREET FRONTAGE SHRUBS (8.790.A.2)
REQUIRED: 1 SHRUB PER 20 FEET OF STREET FRONTAGE
NE TUDOR ROAD = 314 FEET / 20 = 16 SHRUBS
NW COMMERCE CIRCLE = 502 FEET / 20 = 26 SHRUBS
PROVIDED: NE TUDOR ROAD = 23 SHRUBS
NW COMMERCE CIRCLE = 40 SHRUBS

OPEN YARD SHRUBS (8.790.B.1)
REQUIRED: 2 SHRUBS PER 5,000 SQUARE FEET OF TOTAL LOT AREA
241,175 SF / 5,000 * 2 = 96 SHRUBS
PROVIDED: 373 SHRUBS

OPEN YARD TREES (8.790.B.3)
REQUIRED: 1 TREE PER 5,000 SQUARE FEET OF TOTAL LOT AREA
241,175 SF / 5,000 = 48 TREES
PROVIDED: 59 TREES

PARKING LOT SCREENING (8.820.C.1)
REQUIRED: HEDGE OF 12 SHRUBS / 40 LINEAR FEET
392 LINEAR FEET / 40 * 12 = 118 SHRUBS
PROVIDED: 118 SHRUBS

MINIMUM BUFFER / SCREEN (8.890)
REQUIRED: NORTHWEST = MEDIUM IMPACT SCREEN - TYPE B
1 SHADE TREE PER 1,000 SQUARE FEET = 6 SHADE TREES
1 ORNAMENTAL TREE PER 500 SQUARE FEET = 12 ORNAMENTAL TREES
1 EVERGREEN TREE PER 300 SQUARE FEET = 20 EVERGREEN TREES
1 SHRUB PER 200 SQUARE FEET = 30 SHRUBS
PROVIDED: 3 DECIDUOUS TREES, 3 EVERGREEN TREES, AND 30 SHRUBS

REQUIRED: NORTHEAST = LOW IMPACT SCREEN - TYPE B
1 SHADE TREE PER 1,000 SQUARE FEET = 6 SHADE TREES
1 ORNAMENTAL TREE PER 500 SQUARE FEET = 12 ORNAMENTAL TREES
1 EVERGREEN TREE PER 500 SQUARE FEET = 20 EVERGREEN TREES
1 SHRUB PER 500 SQUARE FEET = 30 SHRUBS
PROVIDED: 9 EVERGREEN TREES AND 30 SHRUBS

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4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
P: 913.307.3700
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

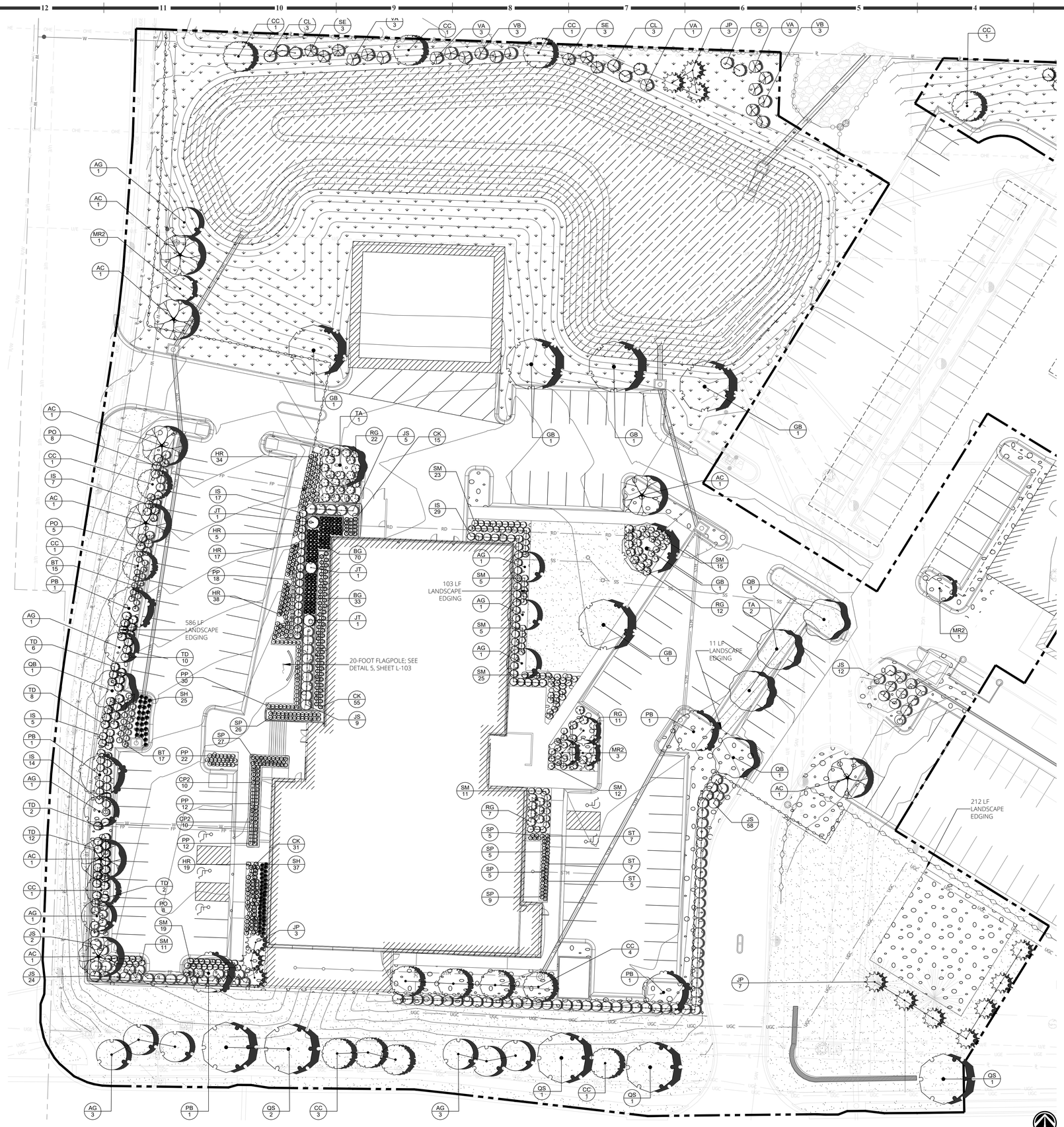
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CHRIS A. MILLER
NUMBER 2010035274
LANDSCAPE ARCHITECT

PROFESSIONAL SEAL

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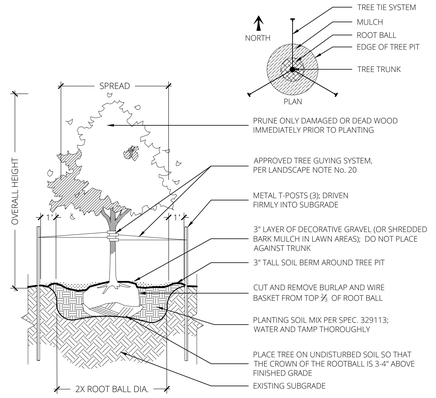
ISSUE DATE: OCT. 11, 2024
HOEFER WELKER #: 138191

LANDSCAPE PLAN



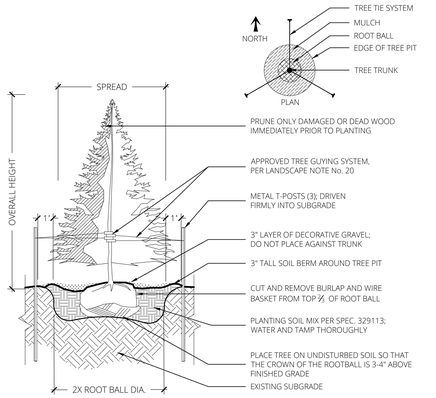
1 JOINT OPERATIONS FACILITY ENLARGEMENT PLAN

SCALE = 1" = 20'-0"



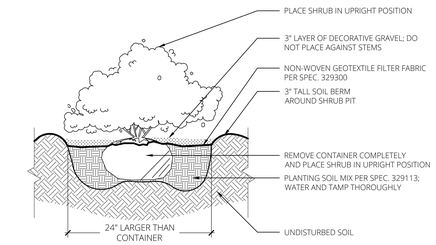
2 DECIDUOUS TREE PLANTING

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



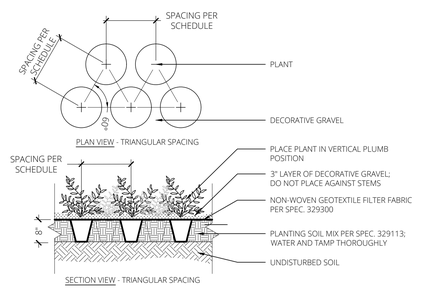
3 EVERGREEN TREE PLANTING

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



4 SHRUB PLANTING

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



5 PERENNIAL PLANTING

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

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

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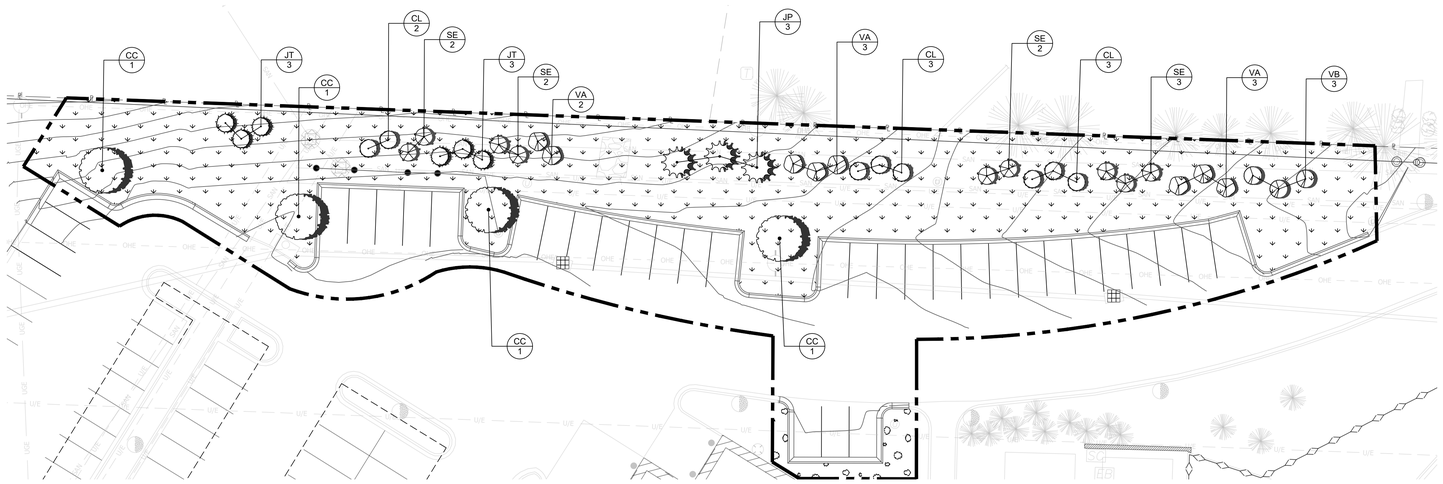
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CARRIE VANLEER
NUMBER LA-2003024
LANDSCAPE ARCHITECT

PROFESSIONAL SEAL

L-102

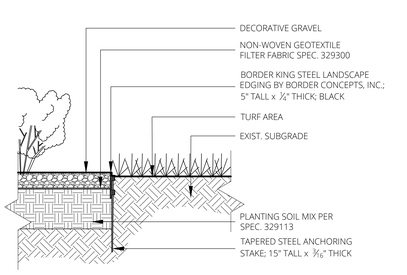
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JOF ENLARGEMENT PLAN



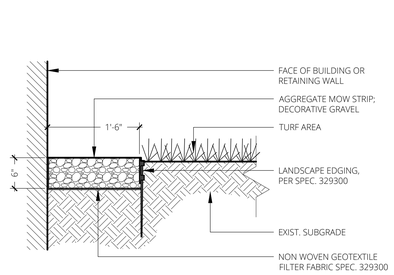
1 EAST PARKING ENLARGEMENT PLAN

SCALE = 1" = 10'-0"



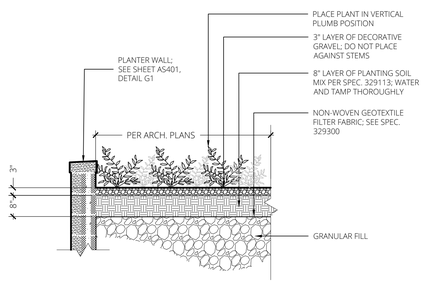
2 LANDSCAPE EDGING

SCALE = 1" = 1'-0"



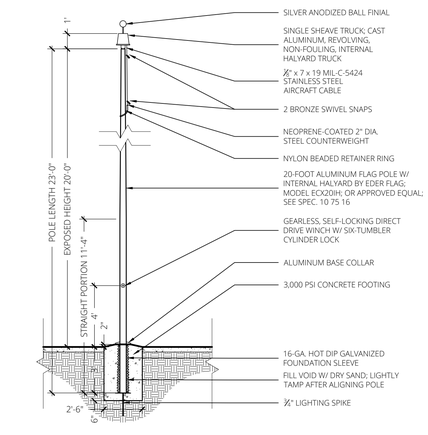
3 AGGREGATE MOW STRIP

SCALE = 1" 1'-0"



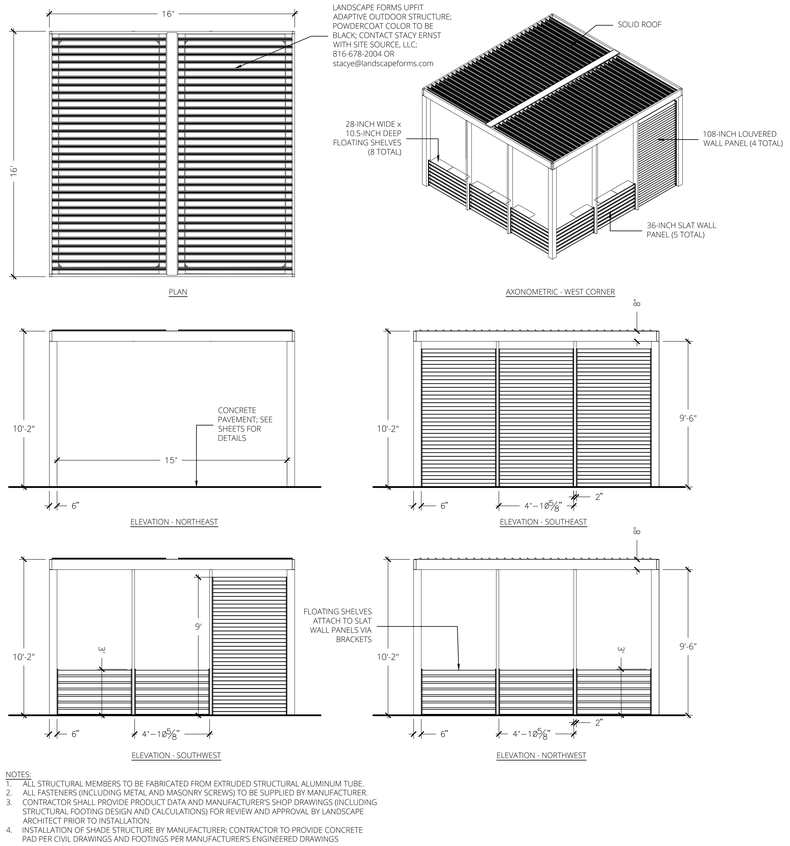
4 PLANTER WALL

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



5 20-FOOT FLAGPOLE

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



NOTES:
1. ALL STRUCTURAL MEMBERS TO BE FABRICATED FROM EXTRUDED STRUCTURAL ALUMINUM TUBE.
2. ALL FASTENERS (INCLUDING METAL AND MASONRY SCREWS) TO BE SUPPLIED BY MANUFACTURER.
3. CONTRACTOR SHALL PROVIDE PRODUCT DATA AND MANUFACTURER'S SHOP DRAWINGS (INCLUDING STRUCTURAL FOOTING DESIGN AND CALCULATIONS) FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. INSTALLATION OF SHADE STRUCTURE BY MANUFACTURER; CONTRACTOR TO PROVIDE CONCRETE PAD PER CIVIL DRAWINGS AND FOOTINGS PER MANUFACTURER'S ENGINEERED DRAWINGS

6 SHADE STRUCTURE

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

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SUITE 1400
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LEE'S SUMMIT JOINT OPERATIONS FACILITY

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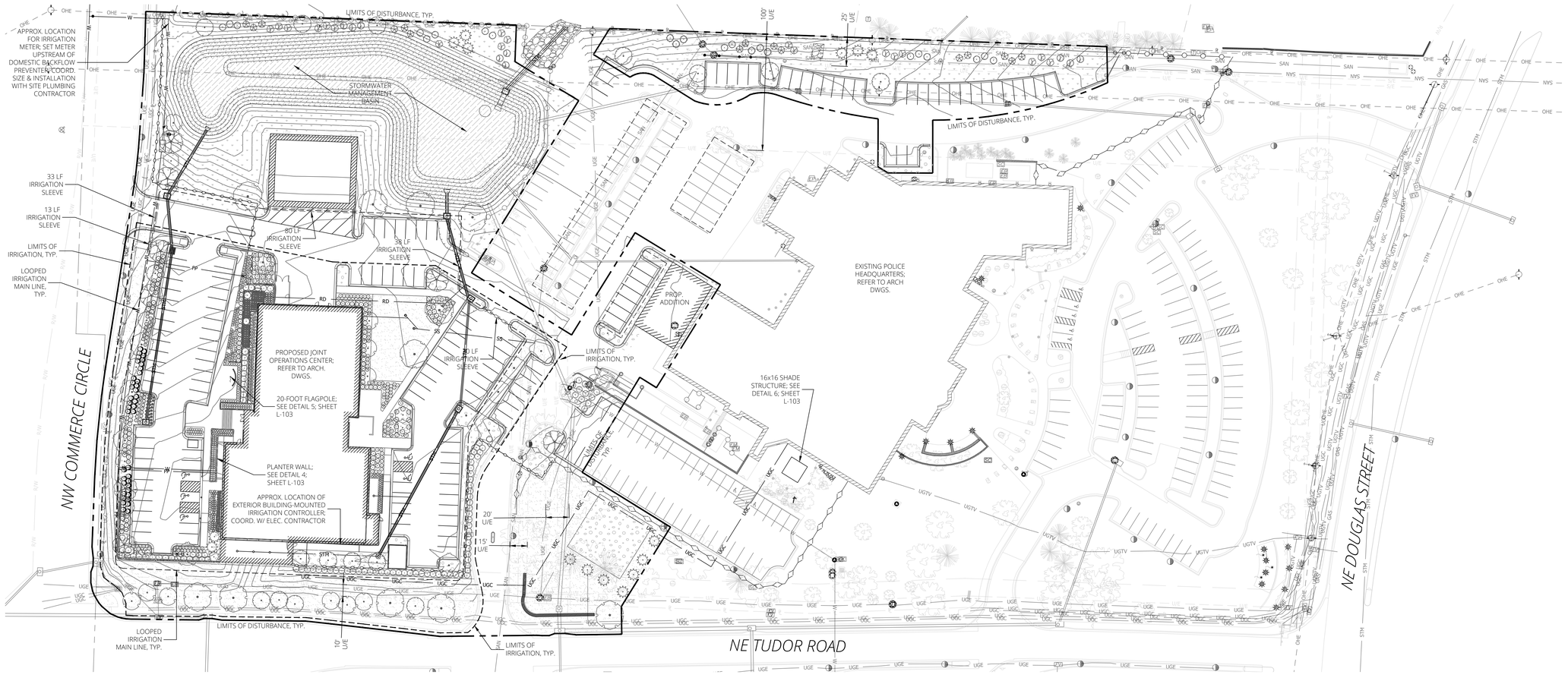
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CHRISTOPHER A. MCMULLEN
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LANDSCAPE ARCHITECT

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EAST PARKING ENLARGEMENT PLAN



1 iRRIGATION PLAN

SCALE = 1" = 40'

GRAPHIC SCALE 40'

NORTH

IRRIGATION NOTES

1. CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE COMMENCING WORK. CONTACT THE MISSOURI ONE CALL SYSTEM AT 8-1-1 TO FILE A LOCATE REQUEST PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO UTILITIES RESULTING FROM IRRIGATION OPERATIONS. ANY UTILITIES SHOWN ON PLAN ARE FOR REFERENCE ONLY AND MAY OR MAY NOT DEPICT THE ACTUAL LOCATION OF SERVICES.
2. THE IRRIGATION SCOPE INCLUDES DESIGN AND INSTALLATION OF A COMPLETELY NEW SYSTEM INCLUDING, BUT NOT LIMITED TO, A REDUCED PRESSURE BACKFLOW PREVENTER, MASTER VALVE, CONTROL VALVES, MAIN LINE, LATERAL LINES, NEW DRIP TUBING, NEW SLEEVES, AND ALL OTHER NECESSARY COMPONENTS REQUIRED TO IRRIGATE THE LANDSCAPING AND VEGETATION WITHIN THE LIMITS SHOWN ON THIS PLAN.
3. THE IRRIGATION MAIN LINE AND SLEEVE LOCATIONS SHOWN ON THIS PLAN ARE CONCEPTUAL. THE IRRIGATION SYSTEM SHALL BE BE DESIGNED AND BUILT BY A QUALIFIED IRRIGATION CONTRACTOR AND SHALL CONFORM TO THE PERFORMANCE SPECIFICATIONS INCLUDED IN SECTION 328400.
4. THE IRRIGATION CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, EQUIPMENT, AND LABOR TO DESIGN AND INSTALL A COMPLETE AND OPERABLE AUTOMATICALLY CONTROLLED LANDSCAPE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS AND AS NECESSARY TO COMPLETE THE CONTRACT.
5. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION, SEQUENCING, AND SCHEDULING ALL WORK RELATED TO THE IRRIGATION SYSTEM.
6. THE IRRIGATION CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY COVERING ALL NEW EQUIPMENT AGAINST DEFECTS IN INSTALLATION, WORKMANSHIP, AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
7. PROVIDE SLEEVES IN NEW SECTIONS OF 4-INCH PVC SCHEDULE 40 PIPE, AS NEEDED, UNDER PAVEMENT AT DEPTHS OF 18-24 INCHES TO FACILITATE INSTALLATION OF IRRIGATION MAIN LINE AND LATERALS. SLEEVES SHALL EXTEND A MINIMUM OF 18 INCHES INTO THE GREEN SPACE BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB. FLAG ALL SLEEVE OPENINGS UPON INSTALLATION. WHERE SLEEVES CROSS VEHICULAR DRIVE AISLES, INSTALL AT A MINIMUM DEPTH OF 30 INCHES BELOW TOP OF PAVEMENT GRADE AND BACKFILL TRENCHES WITH FLOWABLE CONCRETE FILL.

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CHRIS J. MUELLER
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IRRIGATION PLAN

STRUCTURAL NOTES

2018 INTERNATIONAL BUILDING CODE

GENERAL NOTES:
1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.

2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, NOT THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE NEW AND EXISTING STRUCTURE DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BRACING, SHORING FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE ARCHITECT-ENGINEER IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF CONSTRUCTION, OR THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT-ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS.

3. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION.

4. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTIONS SHALL BE SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS.

5. DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT ALL.

6. CONTRACTOR NOTE: PROVIDE 2 TONS OF MISCELLANEOUS STRUCTURAL STEEL SHAPES (LABOR FOR BOTH LABOR FOR DETAILING AND ERECTION INCLUDED FOR FIELD USE AS DIRECTED BY THE ARCHITECT/ENGINEER.

DESIGN:
ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS, EXCEPT WHERE NOTED TO THE CONTRARY ON DRAWINGS OR WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN.

ACI 301	SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
ACI 318	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
AISC 360-16	SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS
AISI-5100-16	NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AWS D1.1	STRUCTURAL WELDING CODE
ICC500-14	22020 ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER

DEAD LOADS:
ROOF: 87 PSF (MAIN BUILDING)
CANOPY: 15 PSF

LIVE LOADS:
ROOF: 100 PSF
CANOPY: 20 PSF

SNOW LOADS:
SNOW LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND ASCE 7 INCLUDING DRIFTING SNOW LOADS CHAPTER 16.

Ce = 1.0
Ct = 1.0
Pg = 20 PSF
Pf = 16.8 PSF
Pf(min)=16 psf
RAIN ON SNOW LOAD=5 PSF
DESIGN BALANCE SNOW LOAD = 22 PSF

WIND LOAD:
WIND LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.
ULTIMATE DESIGN WIND SPEED = 122 MPH
EXPOSURE = B

SEISMIC LOAD:
SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE.
IE=1.5
SEISMIC USE GROUP IV
SITE CLASS = B
MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082
SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.082 SDI = 0.057
SEISMIC DESIGN CATEGORY A
INTERMEDIATE REINFORCED MASONRY WALLS & BRACED FRAMES.
Cs = 0.01

LATERAL LOAD RESISTANCE SYSTEM:
STEEL DECK ROOF DIAPHRAGMS TRANSFERRING LATERAL LOADS TO INTERMEDIATE REINFORCED MASONRY SHEAR WALLS & BRACED FRAME SUPPORTED BY SHALLOW CONCRETE FOUNDATIONS.

FOUNDATIONS:
1. A GEOTECHNICAL REPORT HAS BEEN COMPLETED BY GEOTECHNOLOGY, LLC DBA UES DATED MAY 21, 2024. UES PROJECT NO.: J045326.01. ALL RECOMMENDATIONS SHOULD BE FOLLOWED.

2. ALLOWABLE BEARING PRESSURE: 12000 PSF

3. FROST DEPTH = 12" ON SHALE & LIMESTONE

4. SEE GEOTECHNICAL REPORT FOR ANY ADDITIONAL OVEREXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS. ALL RECOMMENDATION IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED UNO.

STRUCTURAL BACKFILL:
1. ALL BELOW-GRADE WALLS TO BE BACKFILLED WITH GRAVEL BACKFILL AS DESCRIBED IN GEOTECH REPORT.

2. PLACE BACKFILL AND COMPACT IN 8" LIFTS PER GEOTECH REPORT.

3. DESIGN EQUIVALENT FLUID PRESSURES (GRAVEL BACKFILL)
ACTIVE: 35 psf/ft
AT-REST: 56 psf/ft

CONCRETE:
1. CONCRETE MIX DESIGNS:
FOOTINGS:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI
W/C RATIO = 0.50
MAX AGGREGATE SIZE = 3/4"
SLUMP = 4" ±1"
AIR CONTENT = 6% ±1.5% (ASTM C 260)

WALLS:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI
W/C RATIO = 0.50
MAX AGGREGATE SIZE = 3/4"
SLUMP = 4" ±1"
AIR CONTENT = 6% ±1.5% (ASTM C 260)

SLAB ON GRADE:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI
W/C RATIO = 0.45
MAX AGGREGATE SIZE = 3/4"
MAX SLUMP = 4"
AIR CONTENT = 1.5% (ASTM C 260)

EXTERIOR CONCRETE:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,500 PSI
W/C RATIO = 0.40
MAX AGGREGATE SIZE = 3/4"
SLUMP = 4"±1"
AIR CONTENT = 6% ± 1.5% (ASTM C 260)

2. IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING THIS SHALL BE DONE UTILIZING AN APPROPRIATE APPROVED ADMIXTURE - NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S PERMISSION. ALL ADMIXTURES SHALL BE APPROVED IN WRITING BY THE ENGINEER.

3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE OR EXCEEDS THE TOTAL ALLOWABLE MIXING TIME.

4. FLY ASH MAY BE INCLUDED IN FOUNDATION CONCRETE.

5. NO ALUMINUM SHALL BE PLACED IN CONCRETE.

6. DURING HOT WEATHER (80 DEGREES F AND ABOVE, THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS ACI 305"HOT WEATHER CONCRETE." DURING COLD WEATHER (40 DEGREES F AND BELOW), THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI-306 "COLD WEATHER CONCRETING."

7. THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE. AFTER ACCEPTANCE OF THE MIX DESIGN BY THE ENGINEER OF RECORD, THE ACCEPTED DESIGNS MUST BE FORWARDED TO THE CITY INSPECTION DEPT. & THE SPECIAL INSPECTOR PRIOR TO CONCRETE BEING DELIVERED TO THE SITE.

CONCRETE REINFORCEMENT:
1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

2. CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, UNLESS OTHERWISE NOTED ON DETAILS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
OTHER: #6 BARS AND LARGER: 2"
#5 BARS AND SMALLER: 1-1/2"

3. REINFORCING BAR SPLICES SHALL BE IN ACCORD WITH THE REQUIREMENTS OF ACI 318-14 AND THE REINFORCING SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS.

COLD-FORMED FRAMING:
1. ALL COLD-FORMED FRAMING SHALL BE ASTM A 1003, GRADE ST 50H WITH G60 COATING.

2. PROVIDE COLD-FORMED METAL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATE ON CONTRACT DOCUMENTS. 18 GA MINUMUM THICKNESS IS REQ'D. CONSULT LIGHT GAGE ENGINEER TO VERIFY SIZES UTILIZED FOR BID PURPOSES

3. DEFLECTION LIMITS:
L/240 UNLESS ITS AN APPLICATION AT MASONRY THEN L/600

4. PROVIDE SHOP DRAWINGS SHOWING LAYOUT, SPACING, SIZES, THICKNESS AND TYPES OF COLD-FORMED FRAMING INCLUDING FASTENING AND ANCHORAGE DETAILS WITH SUPPORTING CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF THE PROJECT.

5. SCREWS SHALL BE HILTI INC., KWIK-PRO SELF DRILLING OR AN APPROVED EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC REPORT ESR-2196.

6. WHERE GYPSUM SHEATHING IS NOT REQUIRED ON BOTH FACES OF STEEL STUDS, CONTINUOUS BRIDGING SHALL BE INSTALLED AS REQUIRED BY MANUFACTURER.

7. ALL LIGHT GAUGE STEEL FRAMING SHALL BE INSTALLED WITH BRIDGING, BRACING, TRACK, AND STIFFENERS, ETC. AS REQUIRED TO STRICTLY CONFORM TO MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN A COPY OF THE MANUFACTURER'S SUGGESTED CONSTRUCTION DETAILS TO USE AS A REFERENCE DURING CONSTRUCTION.

PRECAST CONCRETE
1. THE CONTRACTOR/SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL THE PRECAST MEMBERS AND CONNECTION BETWEEN THEM AND OTHER STRUCTURAL MEMBERS. SUBMIT DESIGN CALCULATIONS, SEALED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION, FOR REVIEW BY THE ARCHITECT/ENGINEER OF RECORD.

2. ALL PRECAST MEMBERS ARE TO BE DESIGNED IN ACCORDANCE WITH ACI 318-14, 2018 IBC AND OTHER APPLICABLE CODES, STANDARDS (SEE SPECS) AND DESIGNED CONNECTIONS.

3. PROVIDE BLOCKOUTS AND OPENINGS FOR MECHANICAL/ELECTRICAL EQUIPMENT. REFER TO MECHANICAL/ELECTRICAL DOCUMENTS.

4. SHOP DRAWINGS SHALL BE COMPLETE AND SHALL INCLUDE A LAYOUT PLAN, FABRICATION DETAILS, ESTIMATED CAMBER, CONNECTION AND ANCHORAGE DETAILS AND MEMBER IDENTIFICATION MARKS. IDENTIFICATION MARKS SHALL APPEAR ON MANUFACTURED UNITS TO FACILITATE CORRECT FIELD PLACEMENT.

5. REFER TO MECHNICAL/ELECTRICAL DRAWINGS FOR CONDUIT LOCATIONS EMBEDDED IN PRECAST MEMBERS

STRUCTURAL STEEL:
1. FABRICATOR SHALL BE AISC CERTIFIED IN LIEU OF THE PREVIOUS,FABRICATOR SHALL INCLUDE IN THEIR BID THE SERVICES OF A SPECIAL INSPECTOR TO PROVIDE INSPECTION/TESTING SERVICES FOR IN-SHOP WORK TO MEET THE REQUIREMENTS OF 2018 INTERNATIONAL BUILDING CODE SECTION 1704.

2. STRUCTURAL STEEL SHALL MEET ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL MEET ASTM A992.

3. STEEL TUBES SHALL MEET ASTM A500, GRADE B.

4. STEEL PIPE SHALL MEET ASTM A53, TYPE E OR S, GRADE B.

5. BOLTS SHALL BE 3/4" DIAMETER A325-N UNLESS OTHERWISE NOTED.

6. FIELD BOLTING INSTALLATION SHALL BE INSPECTED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND THE AISC LRFD MANUAL, SECOND EDITION. BOLTS SHALL BE INSTALLED SNUG TIGHT UNLESS NOTES OTHERWISE NOTED. ASTM A-325-SC SHALL BE FULLY TIGHTENED USING LOAD INDICATOR WASHERS.

7. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE AWS D1.1-98. ELECTRODES SHALL MATCH BASE METALS AS SPECIFIED IN 2018 INTERNATIONAL BUILDING CODE.

8. ALL FIELD WELDING SHALL BE VISUALLY INSPECTED BY THE TESTING LABORATORY.

9. HOT DIP GALVANIZE ALL STEEL MEMBERS EXPOSED TO EXTERIOR TO MEET ASTM 525 G60.

10. ALL STEEL BELOW GRADE SHALL BE ENCASED IN CONCRETE WHERE POSSIBLE; IF NOT POSSIBLE, STEEL SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTIC PAINT.

STEEL JOISTS:
1. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE BUILDING CODE SECTION 1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT.

2. DESIGNED, FABRICATED AND ERECTED IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE CHAPTER 22 AND THE STANDARD SPECIFICATIONS FOR STEEL JOIST, K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS, PUBLISHED BY THE STEEL JOIST INSTITUTE.

3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORD WITH STEEL JOIST INSTITUTE RECOMMENDATIONS. USE 'X'-BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING. LOCATE BRIDGING TO AVOID MECHANICAL OPENINGS.

4. JOIST SEAT DEPTH SHALL BE 2-½" FOR 'K' SERIES AND 5" INCHES FOR 'LH' SERIES UNLESS NOTED OTHERWISE.

5. DESIGN EXTENDED ENDS FOR SAME DEAD LOADS AS JOIST AND A SNOW LOAD OF 40 PSF, AND OTHER LOADS AS INDICATED. LIMIT LIVE LOAD DEFLECTION TO L/240.

6. ADDITIONAL LOADS HAVE BEEN NOTED ON FRAMING PLANS. JOISTS SHALL BE DESIGNED TO SUPPORT THE ADDITIONAL LOADS. IT IS THE JOISTS SUPPLIERS RESPONSIBILITY TO DESIGN JOIST FOR ANY LOAD IN ADDITION TO THE DEAD AND LIVE LOADS LISTED ON THIS SHEET.

METAL DECK:
1. METAL ROOF DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWINGS(22 GA. MIN.), WITH NESTABLE SIDE LAPS AND PAINTED.

2. COMPOSITE FLOOR DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWING (22 GA MIN.), WITH NESTABLE SIDE LAPS AND GALVANIZED.

3. FASTEN ROOF DECK IN ACCORD WITH METAL DECK ATTACHMENT TYPES NOTED ON THE PLANS AND FASTENING DETAILS. DECK ATTACHMENT SHALL BE IN ACCORD WITH VULCRAFT AND THE STEEL DECK INSTITUTE'S SECOND EDITION OF THE DIAPHRAGM DESIGN MANUAL OR APPROVED EQUAL.

4. METAL DECK ATTACHMENTS SHALL BE INSPECTED BY TESTING LABORATORY.

MASONRY:
1. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 1900 PSI ON THE NET AREA, PROVIDING A STRUCTURAL DESIGN COMPRESSIVE STRENGTH OF 1500 PSI PER THE 2018 INTERNATIONAL BUILDING CODE, TABLE 2105.2.2.1.2.

2. MORTAR SHALL BE TYPE S IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, TABLE NO. 2103.7(1), MORTAR PROPORTIONS FOR UNIT MASONRY, USING CEMENT LIME OR MORTAR CEMENT MIXES. (MASONRY CEMENT IS NOT ACCEPTABLE). (1)

3. ELEVATOR WALL MASONRY GROUT SHALL BE THE GREATER OF 2500 PSI OR THE COMPRESSIVE STRENGTH OF THE MASONRY UNITS. AIR ENTRAINMENT AND OTHER ADDITIVES ARE NOT ACCEPTABLE IN GROUT MIX. GROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES.

4. MASONRY REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

5. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD LADDER TYPE, GALVANIZED, AT 16-INCHES ON CENTER, UNLESS OTHERWISE NOTED ON PLAN.

6. MINIMUM BOND BEAM REINFORCING SHALL BE 2 - #4 IN 6" AND 8" BOND BEAMS AND 2 - #5 IN 12" BOND BEAMS. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS EXCEPT AS NOTED ON TYPICAL MASONRY WALL OPENING DETAIL.

7. SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE IN ACCORD WITH THE REINFORCING SPLICE LENGTH TABLE OR AS SHOWN ON THE DRAWINGS.

8. PROVIDE BOND BEAMS AT TOP OF ALL WALLS, AT ROOFS, STRUCTURAL FLOORS, OVER ALL OPENINGS IN WALLS AND WHERE SHOWN ON THE DRAWINGS.

9. REINFORCING SHALL BE HELD IN PLACE PRIOR TO GROUTING WITH WIRE POSITIONERS PLACED AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS NOR 10 FEET. PROVIDE POSITIONERS AT REINFORCING SPLICES.

10. VERTICAL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.

8" CONC BLOCK 1-#5 @ 4'-0" OC

11. PROVIDE 1 #5 VERTICAL REINFORCING AT JAMB OPENINGS, ENDS AND CORNERS OF ALL WALLS AND EACH SIDE OF CONTROL JOINTS. SPECIAL JAMB REINFORCING, WHERE REQUIRED, IS CALLED OUT ON THE PLANS.

12. ELECTRICAL PANELS, CONDUITS, PIPES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE LOCATED SO AS NOT TO INTERFERE WITH REINFORCED AND/OR GROUTED CELLS. PIPES AND CONDUITS PASSING HORIZONTALLY THROUGH WALLS SHALL BE SLEEVED. MINIMUM SPACING OF SLEEVES SHALL BE THREE DIAMETERS.

13. GROUT SHALL BE MECHANICALLY CONSOLIDATED IN A MANNER TO FILL THE GROUT SPACE AND RECONSOLIDATED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.

14. PROVIDE GROUT AND MASONRY UNIT TESTING PRIOR TO AND DURING CONSTRUCTION IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.

15. REINFORCEMENT PLACEMENT, GROUT SPACES AND GROUTING OPERATION SHALL BE INSPECTED BY TESTING LABORATORY IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS. MORTAR FIN PROJECTION INTO THE GROUT SPACE SHALL NOT EXCEED 1/2 INCH.

POST-INSTALLED ANCHORS:
1. EXPANSION BOLTS INSTALLED IN CONCRETE OR MASONRY SHALL BE HILTI KWIK BOLT TZ ANCHORS OR APPROVED EQUAL WITH EMBEDMENT NOTED ON THE DRAWINGS OR EMBEDMENT AS RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORTS ESR-4266.

2. SCREW ANCHORS SHALL BE KWIK HUS-EZ-SS316 CONCRETE ANCHORS BY HILTI, INC. OR APPROVED EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORT ESR-3027

3. ADHESIVE ANCHORS SHALL BE HILTI:
-HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD OR HAS THREADED ROD, PER ICC ESR 3187
-HIT-HY SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS -E THREADED ROD PER ICC-3187
-HIT-RE 500 V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH THREADED ROD PER ESR-3814

4. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN STRENGTH.

FIRE RATINGS:
1. FOR FIRE-RATING REQUIREMENTS AND METHODS, SEE ARCHITECTURAL DRAWINGS.

SPECIAL STRUCTURAL INSPECTIONS:
1. IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, SECTION 1704, AS NOTED BELOW. TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM, UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THE BASIS FOR WELDING INSPECTOR QUALIFICATION SHALL BE AWS D1.1.

2. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE 2018 INTERNATIONAL BUILDING CODE.

3. THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

4. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD FOR CONFORMANCE TO THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF UNCORRECTED, TO THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.

5. THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

STATEMENT OF SPECIAL INSPECTION

IBC CODE REFERENCE	CONSTRUCTION TYPE	FREQUENCY CONT.	FREQUENCY PER
1705.2	STEEL CONSTRUCTION		
1. INSPECTION OF WELDING			X
2. INSPECTION OF HIGH STRENGTH BOLTING			X
1705.3	REINFORCED CONCRETE		
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT.			X
3. INSPECTION OF ANCHORS CAST IN CONCRETE			X
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			X
5. VERIFYING USE OF REQUIRED MIX DESIGN			X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.			X
1705.4	MASONRY CONSTRUCTION		
1. VERIFY PROPORTIONS OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS, LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES AS CONSTRUCTION BEGINS.			X
2. VERIFY GROUT SPACING, GRADE AND SIZE OF REINFORCEMENT AND ANCHORS, PLACEMENT OF REINFORCING AND CONNECTIONS, PROPORTIONS OF SITE PREPARED GROUT PRIOR TO GROUTING.			X
3. VERIFY THE PLACEMENT OF GROUT.			X
1705.6	SOILS		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE ADEQUATE BEARING CAPACITY.			X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			X
3. PERFORM CLASSIFICATION AND TESTING OF THE COMPACTED FILL MATERIALS.			X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.		X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			X

DEFERRED SUBMITTALS:
1. THE FOLLOWING ITEMS ARE DEFERRED SUBMITTAL ITEMS:
- PRECAST CONCRETE DOUBLE TEE SYSTEM AND PRECAST CONCRETE WALLS
- STEEL JOISTS

2. DEFERRED SUBMITTAL ITEMS SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT WITH CALCULATIONS, DRAWINGS, DETAILS, AND CUT SHEETS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.

SHOP DRAWING REVIEW:
1. J&S STRUCTURAL ENGINEERS, PA WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

2. THE FOLLOWING IS A LIST OF REQUIRED SHOP DRAWINGS AND RELATED SUBMITTALS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS:
- ANCHOR BOLT LAYOUT DRAWINGS
- COLD-FORMED FRAMING SHOP DRAWINGS INCLUDING STANDARD DETAILS, BRACING AND BRIDGING REQUIREMENTS AND MATERIAL CERTIFICATIONS.
- CONCRETE BLOCK COMPRESSION TESTS AND MATERIAL CERTIFICATIONS
- CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS
- CONCRETE REINFORCING SHOP DRAWINGS AND REINFORCING MATERIAL CERTIFICATIONS
- MASONRY GROUT AND AND MORTAR MIX DESIGNS
- MASONRY REINFORCING SHOP DRAWINGS
- STRUCTURAL STEEL SHOP DRAWINGS, MATERIAL CERTIFICATIONS AND WELDER CERTIFICATIONS

ICC-500 SHELTER NOTES:

DEAD LOADS:
ROOF: 87 PSF (ICC SHELTER)

LIVE LOADS:
ROOF: 100 PSF

WIND LOAD
BASIC WIND SPEED = 250 MPH
Iw=1.5
EXPOSURE "C"
GCpi = +/- 0.55

SEISMIC LOAD:
SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE.
IE=1.5
SEISMIC USE GROUP IV
SITE CLASS = B
MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082
SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.082 SDI = 0.057
SEISMIC DESIGN CATEGORY A
INTERMEDIATE REINFORCED PRECAST WALLS & BRACED FRAMES.
Cs = 0.01

QUALITY ASSURANCE PLAN:
1. ROOF FRAMING CONNECTIONS SHALL BE COMPLETED BY WELDED CONNECTIONS.
2. WALL CONNECTIONS SHALL BE REINFORCING DOWEL BARS CONNECTING CONCRETE FILLED METAL DECK TO PRECAST AND CONCRETE WALLS. (ACI 318)
3. BOUNDARY ELEMENTS ARE PROVIDED BY CONTINUOUS BOND BEAM AT PERIMETER OF EMERGENCY OPERATIONS CENTER.(ACI 318 & TMS 602)
4. MAIN WINDFORCE-RESISTING SYSTEM SHALL BE SUPPORTED BY PRECAST CONCRETE. (TMS 602)
5. PRECAST CONCRETE SHEARWALLS ARE CONNECTED TO FOUNDATIONS BY REINFORCING STEEL EMBEDED IN BOTH PRECAST WALL AND FOUNDATION COMPONENTS. (ACI 318 & TMS 602)
6. ALL WALL AND ROOF ASSEMBLIES MUST MEET IMPACT OR STATIC OR CYCLIC PRESSURE TEST REQUIREMENTS. (CHAPTER 3, ICC 500)
7. WALL CONSTRUCTION HAS BEEN DESIGNED FOR 250 MILES PER HOUR WIND LOADS, CLADDING IS EXEMPT FOR WIND REQUIREMENTS FOR EMERGENCY OPERATIONS CENTER.(ASCE 7-16)
8. FOUNDATIONS SHALL BE PROVIDED TO RESIST EMERGENCY PREPAREDNESS CENTER GRAVITY AND WIND LOADS. (ASCE 7-16, ICC 500)

MASONRY SPLICE LENGTH TABLE

BAR SIZE	6" BLOCK BAR @ CL	8" BLOCK BAR @ CL	8" BLOCK BAR @ EDGE	10" BLOCK BAR @ CL	10" BLOCK BAR @ EDGE	12" BLOCK BAR @ CL	12" BLOCK BAR @ EDGE
#4	1'-9"	1'-9"	3'-0"	1'-9"	2'-0"	1'-9"	1'-9"
#5	2'-8"	2'-2"	3'-9"	2'-2"	3'-3"	2'-2"	2'-3"
#6	-	3'-7"	4'-6"	3'-4"	4'-6"	3'-4"	4'-5"
#7	-	5'-0"	-	3'-10"	5'-3"	4'-2"	5'-3"

NOTE:
WHEN REQUIRED SPLICE LENGTH EXCEEDS 4'-0" USE HIGH LIFT GROUTING OR USE MECHANICAL TENSION SPLICES WITH LOW LIFT GROUTING

CONCRETE SPLICE LENGTH TABLE

BAR SIZE	FOOTING OR GRADE BEAM	PIER	WALL (VERTICAL)	WALL (HORIZONTAL)	SLAB	COLUMN	BEAM (BOTTOM)	BEAM (TOP)
#3	-	-	1'-8"	1'-8"	1'-8"	-	-	-
#4	2'-3"	-	2'-3"	2'-3"	2'-3"	-	-	-
#5	2'-9"	2'-7"	2'-9"	2'-9"	2'-9"	2'-0"	2'-7"	3'-5"
#6	3'-4"	3'-1"	3'-4"	3'-4'	3'-4"	2'-5"	3'-1"	4'-1"
#7	4'-10"	4'-6"	4'-10"	4'-10"	4'-10"	3'-6"	4'-6"	5'-11"
#8	5'-6"	5'-2"	5'-6"	-	-	4'-0"	5'-2"	6'-9"
#9	-	5'-10"	-	-	-	4'-6"	5'-10"	7'-7"
#10	-	6'-7"	-	-	-	5'-1"	6'-7"	8'-6"
#11	-	7'-3"	-	-	-	5'-7"	7'-3"	9'-6"

NOTES:
1. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE LARGER SPLICE LENGTH SHALL BE USED.
2. TOP BAR IS DEFINED AS ANY HORIZONTAL BAR THAT HAS MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.
3. TABLE SHALL ONLY BE USED WHEN:
- CONCRETE IS NORMAL WEIGHT
- REINFORCEMENT STEEL IS UNCOATED
- REINFORCEMENT STEEL MEETS ASTM A615, GRADE 60

EPOXY EMBEDMENT TABLE

BAR SIZE	REINFORCING STEEL: MINIMUM EMBEDMENT DEPTH f'c=3,000 psi	f'c=3,500 psi	f'c=4,000 psi	THREADED ROD ANCHORS: ANCHOR DIAMETER	MINIMUM EMBEDMENT DEPTH
#3	3 1/2"	3"	2 3/4"	3/8"	5 1/4"
#4	5"	4 3/4"	4 1/4"	1/2"	6 3/8"
#5	6 1/4"	5 3/4"	5 1/4"	5/8"	7 1/2"
#6	7 1/2"	7"	6 1/2"	3/4"	10"
#7	9"	8 1/2"	7 3/4"	7/8"	11 1/4"
#8	10 1/2"	9 3/4"	9"	1"	12 1/2"
#9	11 1/2"	10 3/4"	10"	1 1/4"	15"
#10	13 1/2"	13"	12"	1 1/4"	18"

NOTES:
1. CONTRACTOR HAS THE OPTION TO EPOXY DOWELS AS AN ALTERNATE TO HOOKED OR CAST-IN-PLACE DOWELS WHERE NOTED ON DETAILS.
2. SEE GENERAL STRUCTURAL NOTES FOR APPROVED EPOXY.

ABBREVIATIONS:

ASD	ALLOWABLE STRESS DESIGN
ARCH	ARCHITECT
BPL	BASEPLATE
BTW	BETWEEN
BOTT	BOTTOM
BOTT OF	BOTTOM OF
BOL	BOTTOM OF LINTEL
BOMD	BOTTOM OF METAL DECK
BOP	BOTTOM OF PIER
CIP	CAST IN PLACE
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSIBLE
CONC	CONCRETE
CONT	CONTINUOUS
CJ	CONTROL JOINT
DIM	DIMENSION
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EMBED	EMBEDMENT
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EXP	EXPANSION
FF	FINISH FLOOR
FND	FOUNDATION
FTG	FOOTING
GALV	GALVANIZED
GB	GRADE BEAM
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION
HORIZ	HORIZONTAL
IJ	ISOLATION JOINT
INFO	INFORMATION
INSUL	INSULATION
JT	JOINT
JB	JOIST BEARING
K	KIP = 1,000 POUNDS
LONG	LONGITUDINAL
LRFD	LOAD AND RESISTANCE FACTORED DESIGN
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MBM	METAL BUILDING MANUFACTURER
MIN	MINIMUM
OC	ON CENTER
PL	PLATE
LB	POUND
PSF	POUNDS PER SQUARE FOOT
REF	REFERENCE
REINF	REINFORCEMENT
REQ'D	REQUIRED
SCHED	SCHEDULE
SPA	SPACE
SQ	SQUARE
STD	STANDARD
STL	STEEL
T&B	TOP AND BOTTOM
T&G	TONGUE-AND-GROOVE
TO	TOP OF
TOBM	TOP OF BEAM
TOF	TOP OF FOOTING
TOGB	TOP OF GRADE BEAM
TOL	TOP OF LINTEL
TOM	TOP OF MASONRY
TOP	TOP OF PIER
TOS	TOP OF STEEL
TOTB	TOP OF TIE BEAM
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WWR	WELDED WIRE REINFORCEMENT

SYMBOLS KEY:

GRADE BEAM TAG
GB-X — GRADE BEAM TYPE

PLAN NOTE TAG
— # REFERENCES A PLAN NOTE ON A GIVEN PLAN SHEET

BEAM SPLICE

MASONRY LINTEL
ML-X

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Suite 1400
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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

1	ADDENDUM #1	9/19/24

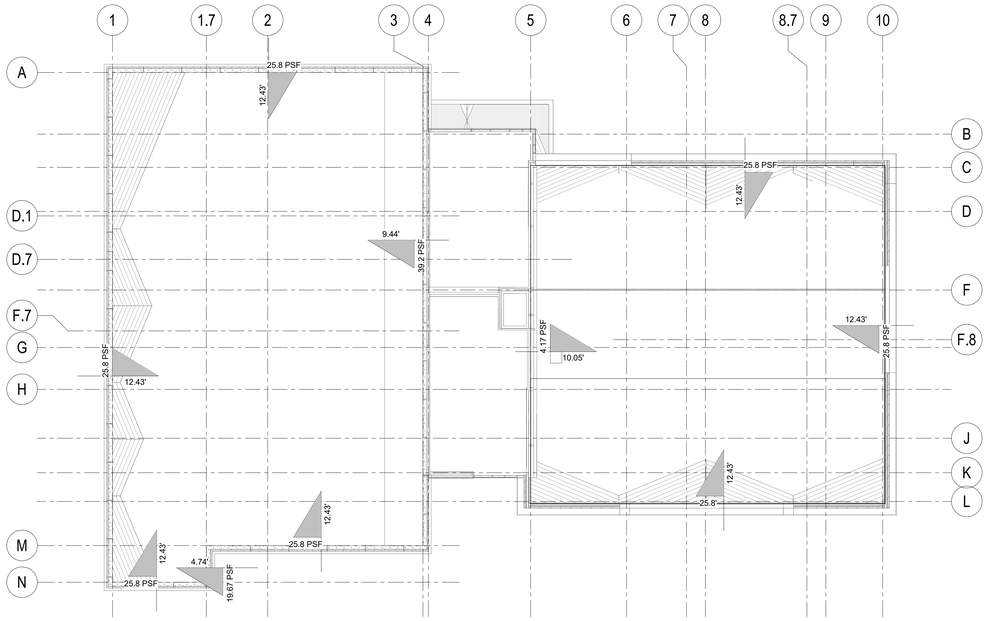
STATE OF MISSOURI
KIMBERLY EBERT JONES
NUMBER PE-2005029619
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

S-000

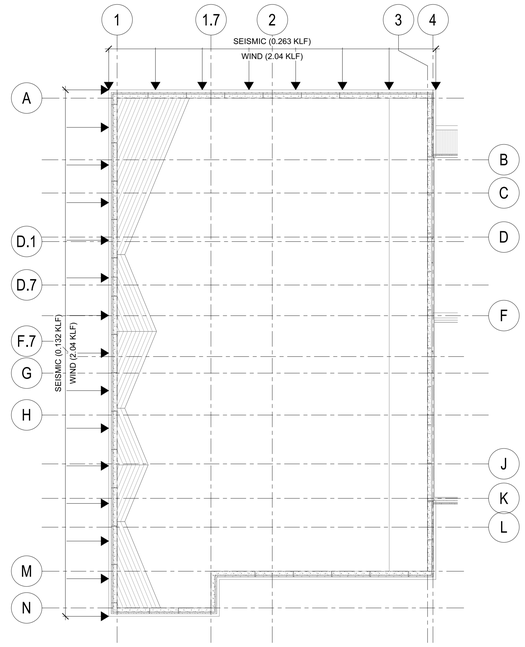
ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

GENERAL STRUCTURAL NOTES



SNOW LOADING PLAN

1/16" = 1'-0"



PRECAST DISTRIBUTED LOADS - UPPER LEVEL

1/16" = 1'-0"

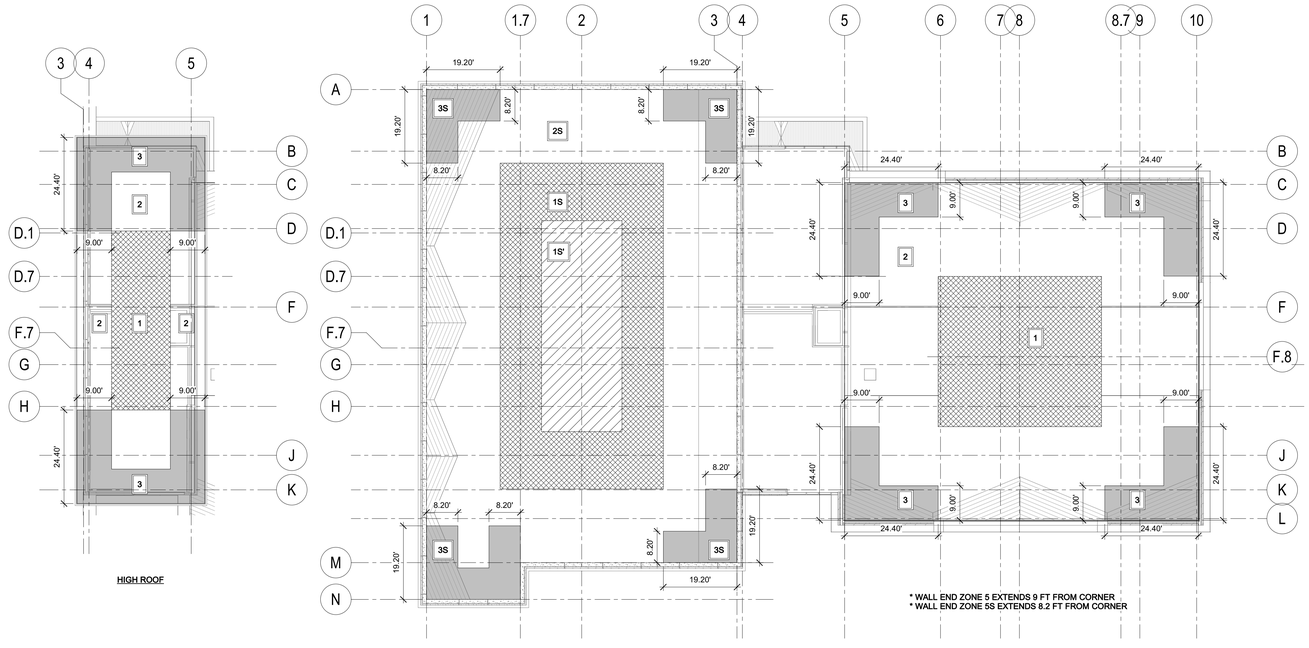
NOTES:
ALL LOADING IS UNFACTORED AS PER ASCE 7-16, 2.3.1

COMPONENTS AND CLADDING PRESSURES: ICC 500

	COMPONENT	ZONE	+ PRESSURE	- PRESSURE		COMPONENT	ZONE	+ PRESSURE	- PRESSURE
	<=10 SF	1S	114.7	-303.6		<=10 SF	4S	195.6	-207.8
	100 SF	1S	101.2	-248.0		50 SF	4S	180.6	-192.8
	200 SF	1S	101.2	-231.2		200 SF	4S	167.7	-179.9
	>500 SF	1S	101.2	-209.1		>500 SF	4S	159.2	-171.3
	<=10 SF	1'S	114.7	-195.6		<=10 SF	5S	195.6	-244.2
	100 SF	1'S	101.2	-195.6		50 SF	5S	180.6	-214.2
	200 SF	1'S	101.2	-148.5	WALL	200 SF	5S	167.7	-188.4
	>500 SF	1'S	101.2	-128.2		>500 SF	5S	159.2	-171.3
	<=10 SF	2S	195.6	-384.5		<=10 SF	4S	293.4	-311.7
	100 SF	2S	174.2	-313.0	PARAPET	50 SF	4S	270.9	-289.2
	200 SF	2S	167.7	-291.5		<=10 SF	5S	293.4	-366.3
	>500 SF	2S	159.2	-263.1		50 SF	5S	270.9	-321.3
	<=10 SF	3S	195.6	-384.5					
	100 SF	3S	174.2	-313.0					
ROOF	200 SF	3S	167.7	-291.5					
	>500 SF	3S	159.2	-263.1					

COMPONENTS AND CLADDING PRESSURES:

	Component	Zone	+ Pressure	- Pressure		Component	Zone	+ Pressure	- Pressure
	<=10 SF	1	11.5	-45.0		<=10 SF	4	25.8	-28.0
	100 SF	1	9.1	-35.1		50 SF	4	23.2	-25.3
	200 SF	1	9.1	-32.1		200 SF	4	20.9	-23.0
	>500 SF	1	9.1	-28.2		>500 SF	4	19.4	-21.5
	<=10 SF	2	25.9	-59.3		<=10 SF	5	25.8	-34.4
	100 SF	2	22.0	-46.6		50 SF	5	23.2	-29.1
	200 SF	2	20.9	-42.8	WALL	200 SF	5	20.9	-24.6
	>500 SF	2	19.4	-37.8		>500 SF	5	19.4	-21.5
	<=10 SF	3	25.8	-59.3		<=10 SF	4	38.7	-42.0
	100 SF	3	22.0	-46.6		50 SF	4	34.8	-38.0
ROOF	200 SF	3	20.9	-42.8	PARAPET	<=10 SF	5	38.7	-51.6
	>500 SF	3	19.4	-37.8		50 SF	5	34.8	-43.7



* WALL END ZONE 5 EXTENDS 9 FT FROM CORNER
* WALL END ZONE 5S EXTENDS 8.2 FT FROM CORNER

WIND COMPONENTS & CLADDING LOADING PLAN

1/16" = 1'-0"

PRECAST DISTRIBUTED LOADS - FLOOR

1/16" = 1'-0"

NOTES:
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REVISION DATES:

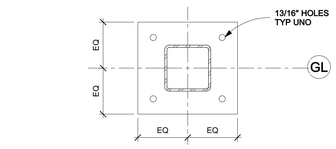


PROFESSIONAL SEAL

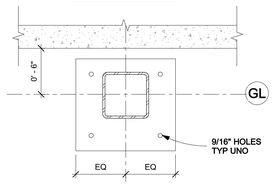
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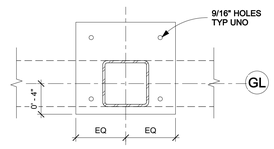
LOADING PLANS



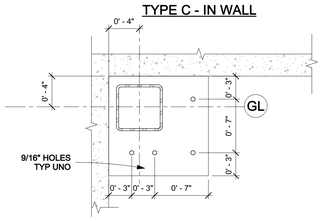
TYPE A - TYPICAL



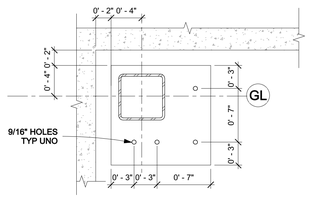
TYPE B - AT CONC WALL



TYPE C - IN WALL



TYPE D - AT CORNER

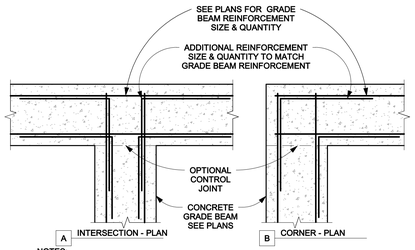


TYPE E - AT CORNER

NOTES:

1. SEE FOUNDATION PLAN FOR BASEPLATE SIZE
2. PROVIDE 9/16"Ø HOLES 2" FROM EDGE
3. TYPE A UNLESS NOTED OTHERWISE ON PLAN

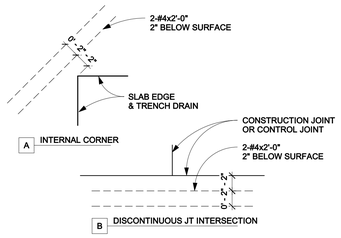
21 S-010 BASEPLATE ORIENTATION
1 1/2" = 1'-0"



NOTES:

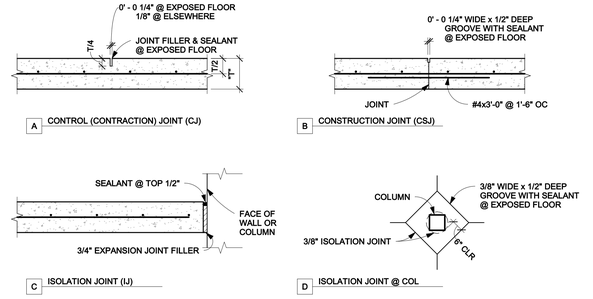
1. SEE CONCRETE SPLICE LENGTH TABLE FOR SPLICE REQUIREMENTS
2. ADDITIONAL REINFORCEMENT IS REQUIRED AT THE TOP AND BOTTOM FOR GRADE BEAM

12 S-010 TYPICAL GRADE BEAM REINFORCING DETAIL
3/4" = 1'-0"

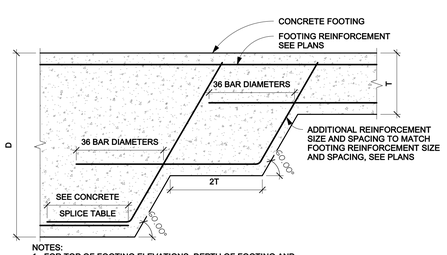


NOTE:
SEE PLANS FOR TYPICAL SLAB-ON-GRADE REINFORCEMENT

13 S-010 ADDITIONAL SLAB-ON-GRADE REINF
1 1/2" = 1'-0"



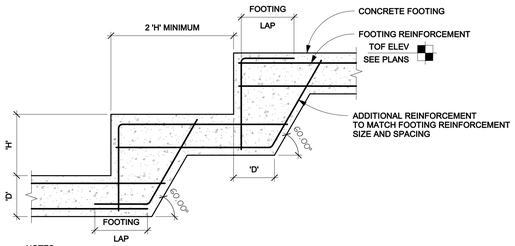
14 S-010 TYPICAL SLAB-ON-GRADE JOINTS
1 1/2" = 1'-0"



NOTES:

1. FOR TOP OF FOOTING ELEVATIONS, DEPTH OF FOOTING AND REINFORCEMENT, SEE PLANS AND TYPICAL FOOTING DETAILS.
2. PROVIDE TWO EQUAL STEPS WHEN 'D' IS GREATER THAN TWO TIMES 'T', OTHERWISE PROVIDE ONE STEP.

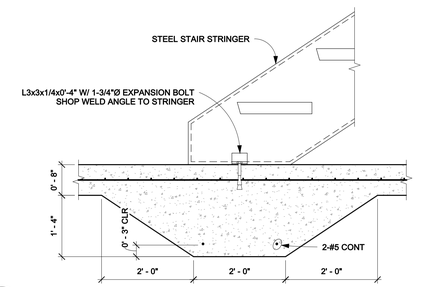
22 S-010 TYPICAL BOTTOM STEP FOOTING DETAIL
3/4" = 1'-0"



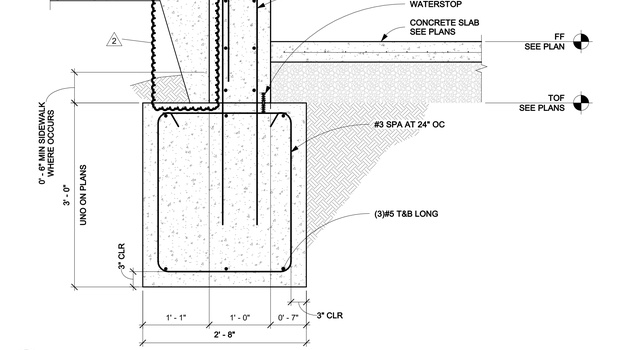
NOTES:

1. FOR FOOTING ELEVATION, DEPTH AND REINFORCEMENT SEE PLANS
2. TOP REINFORCEMENT WHERE OCCURS SEE PLANS
3. SEE CONCRETE SPLICE LAP TABLE FOR SPLICE LAPS

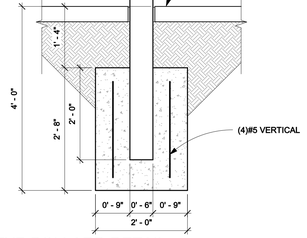
23 S-010 TYPICAL STEP FOOTING DETAIL
1" = 1'-0"



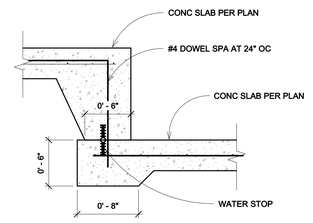
24 S-010 TYP THICKENED SLAB AT STAIR STRINGER
3/4" = 1'-0"



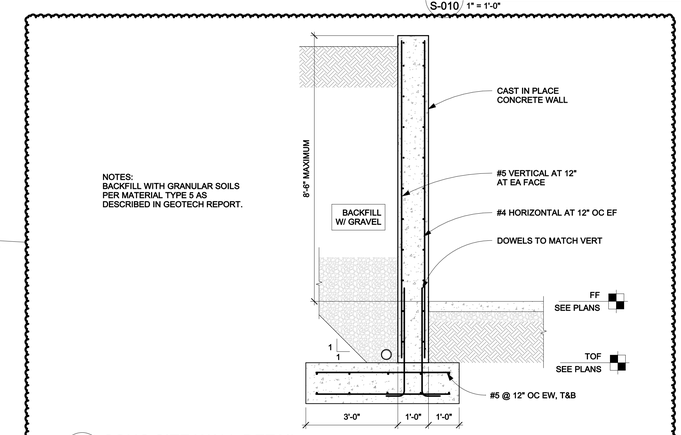
32 S-010 TYPICAL MAN DOOR AT PRECAST
1" = 1'-0"



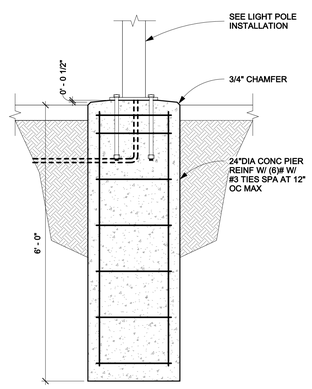
33 S-010 TYP BOLLARD DETAIL
3/4" = 1'-0"



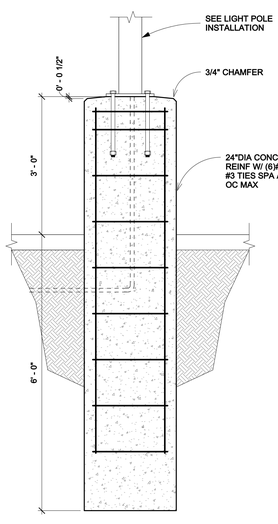
34 S-010 ACCESS FLOOR SLAB DETAIL
1 1/2" = 1'-0"



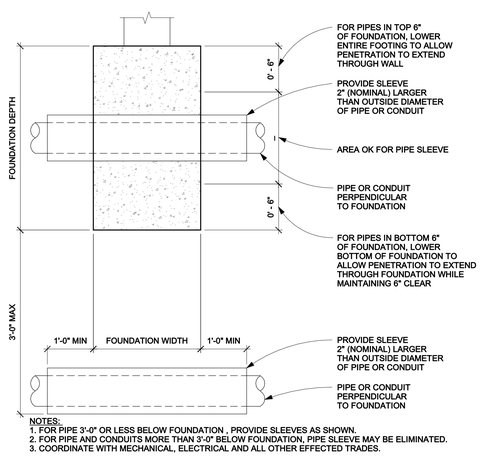
41 S-010 CONC SITE WALL DETAIL
1/2" = 1'-0"



42 S-010 DECORATIVE LIGHTPOLE BASE DETAIL
3/4" = 1'-0"



43 S-010 LIGHTPOLE BASE DETAIL
3/4" = 1'-0"



NOTES:

1. FOR PIPE 3'-0" OR LESS BELOW FOUNDATION , PROVIDE SLEEVES AS SHOWN.
2. FOR PIPE AND CONDUITS MORE THAN 3'-0" BELOW FOUNDATION, PIPE SLEEVE MAY BE ELIMINATED.
3. COORDINATE WITH MECHANICAL, ELECTRICAL AND ALL OTHER EFFECTED TRADES.

44 S-010 TYPICAL INSTALLATION OF PIPE
1 1/2" = 1'-0"

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REVISION DATES:

1	ADDENDUM #1	9/19/24
2	ADDENDUM #2	10/30/24

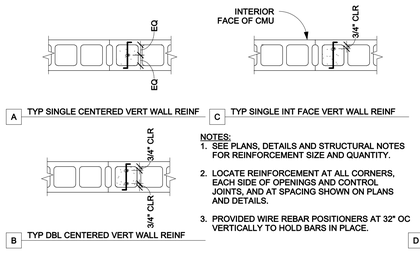
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PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

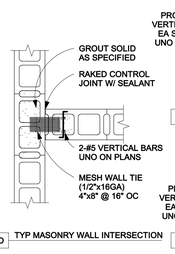
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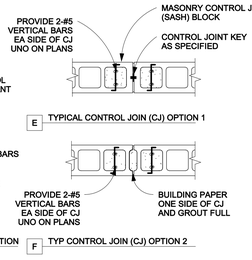
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TYPICAL FOUNDATION DETAILS

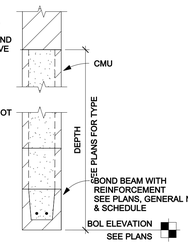


NOTES:
1. SEE PLANS, DETAILS AND STRUCTURAL NOTES FOR REINFORCEMENT SIZE AND QUANTITY.
2. LOCATE REINFORCEMENT AT ALL CORNERS, EACH SIDE OF OPENINGS AND CONTROL JOINTS, AND AT SPACING SHOWN ON PLANS AND DETAILS.
3. PROVIDED WIRE REBAR POSITIONERS AT 32" OC VERTICALLY TO HOLD BARS IN PLACE.



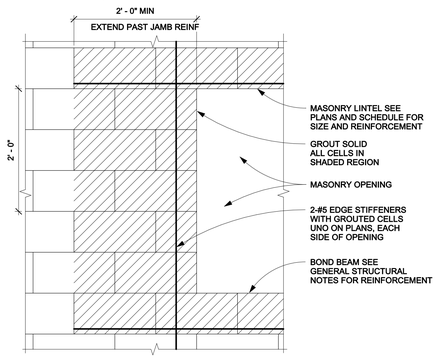


NOTES:
1. PROVIDE SHORING UNDER BEAM FOR A MINIMUM OF 7 DAYS AFTER GROUTING.
2. MONOLITHICALLY GROUT BOND BEAM AND ALL CELLS SOLID. GROUTING SHALL HAVE NO VERTICAL OR HORIZONTAL COLD JOINTS FULL HEIGHT AND LENGTH OF LINTEL INCLUDING END BEARINGS.
3. MECHANICALLY VIBRATE GROUT.
4. SEE TYPICAL MASONRY BEAM/LINTEL BEARING DETAIL FOR BEARING.
5. HORIZONTAL REINFORCEMENT SHALL NOT BE SPLICED.

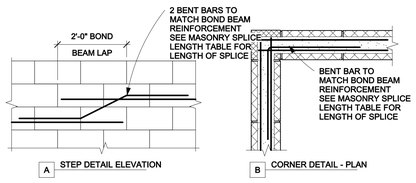


LINTEL SCHEDULE	
MARK	TYPE
ML-1	8x8 BOND BEAM W/ 1-#4
ML-2	8x16 BOND BEAM W/ 2-#4'S (UNO @ 8" CMU)
ML-3	8x24 BOND BEAM W/ 2-#4'S
ML-4	12x8 BOND BEAM W/ 2-#4'S
ML-5	12x16 BOND BEAM W/ 2-#5'S (UNO @ 12" CMU)
ML-6	12x24 BOND BEAM W/ 2-#5'S
ML-7	6x8 BOND BEAM W/ 1-#3
ML-8	6x16 BOND BEAM W/ 2-#4'S (UNO @ 6" CMU)

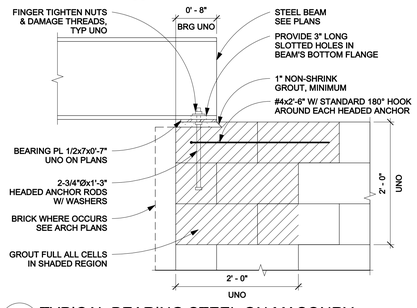
NOTES:
1. AT 8" CMU USE LINTEL ML-2 ALL OPENINGS ≤ 4'-8" AND ML-3 FOR ALL OPENINGS > 4'-8" AND < 8'-0" WIDE UNLESS OTHERWISE NOTED.
2. AT 12" CMU USE LINTEL ML-5 ALL OPENINGS ≤ 6'-8" AND ML-6 FOR ALL OPENINGS > 6'-8" AND < 10'-0" WIDE UNLESS OTHERWISE NOTED.
3. WHERE LINTEL IS NOTED AT SIMILAR, PROVIDE BOND BEAM AND REINFORCING PER SCHEDULE AT TOP AND BOTTOM OF LINTEL.
4. BOND BEAM REINFORCING SHALL BE CONTINUOUS, WITHOUT SPLICES.

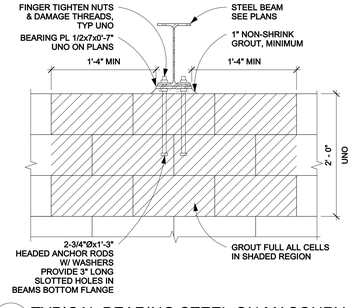


11 TYPICAL MASONRY WALL REINFORCEMENT
S-011 3/4" = 1'-0"

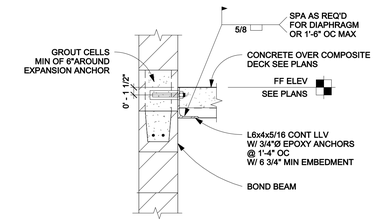


13 TYPICAL MASONRY LINTEL DETAIL AND SCHEDULE
S-011 1" = 1'-0"

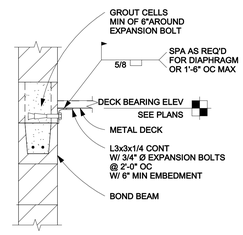




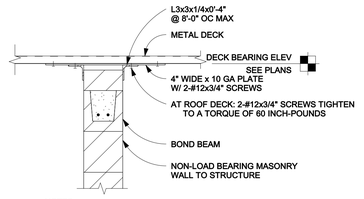
15 TYPICAL MASONRY LINTEL BEARING DETAIL
S-011 1" = 1'-0"



21 TYPICAL BOND BEAM DETAIL
S-011 3/4" = 1'-0"

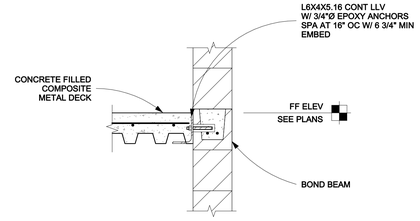


22 TYPICAL BEARING STEEL ON MASONRY
S-011 1" = 1'-0"

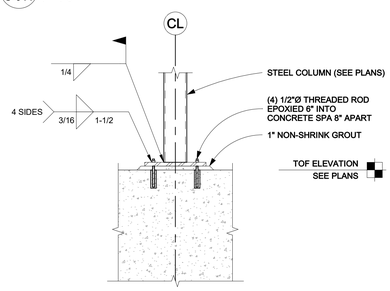


NOTES:
1. SEE ARCHITECTURAL PLANS AND DETAILS FOR LOCATIONS OF WALLS TO STRUCTURE
2. PROVIDE CONTINUOUS 10 GA PLATE, CONTINUOUS ANGLES, AND SCREWS @ 2'-0" OC WHEN TOP OF WALL IS EXPOSED.

23 TYPICAL BEARING STEEL ON MASONRY
S-011 1" = 1'-0"



25 TYP COMPOSITE DECK TO MASONRY WALL
S-011 1" = 1'-0"

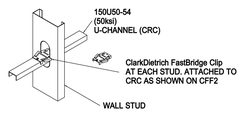


31 TYP METAL DECK ATTACH
S-011 1" = 1'-0"

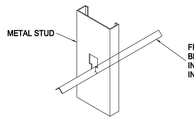
32 TYPICAL WALL BRACING DETAIL
S-011 1" = 1'-0"

34 COMP DECK BEARING AT MAS WALL
S-011 1" = 1'-0"

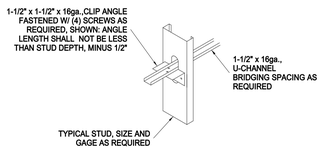
35 STEEL COLUMN BEARING CONCRETE
S-011 3/4" = 1'-0"



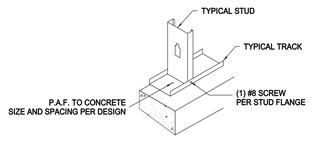
41 FASTBRIDGE BRIDGING OPTION
S-011 1/4" = 1'-0"



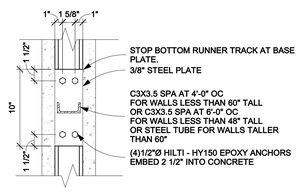
42 SPACER BAR BRIDGING OPTION
S-011 1/2" = 1'-0"

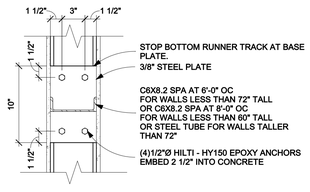


43 U-CHANNEL BRIDGING OPTION
S-011 1" = 20'-0"

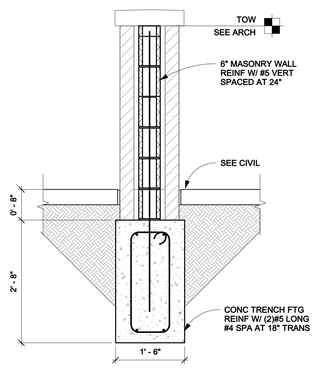


44 TYP STUD BASE CONNECTION
S-011 1/2" = 1'-0"

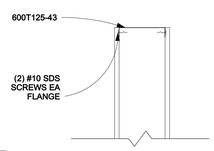




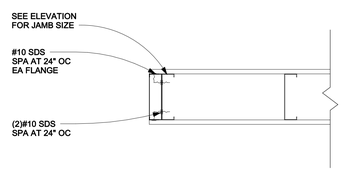
45 PARTIAL WALL HEIGHT SUPPORT
S-011 1 1/2" = 1'-0"



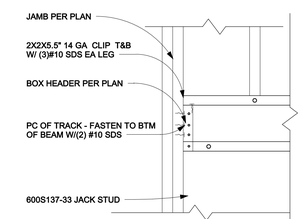
52 CMU PLANTER WALL
S-011 3/4" = 1'-0"



53 TYP SILL PLATE SECTION
S-011 1 1/2" = 1'-0"



54 TYP JAMB DETAIL
S-011 1 1/2" = 1'-0"



55 TYP HEADER CONNECTION
S-011 1 1/2" = 1'-0"

HOEFER WELKER
4622 PENNSYLVANIA AVE.
Suite 1400
KANSAS CITY, MO 64112
P: 913.307.3700
www.hoeferwelker.com
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Overland Park, KS 66223
www.jsstructuralengineers.com
MO COA: 2009009344

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2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

STATE OF MISSOURI
KIMBERLY EBERT ADKES
PE-2005029613
PROFESSIONAL ENGINEER
10/30/24
PROFESSIONAL SEAL

S-011

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

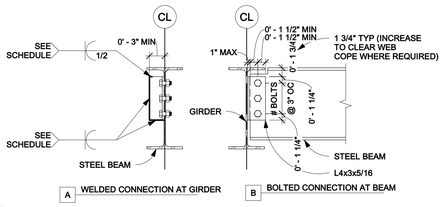
TYPICAL MASONRY & LIGHTGAGE DETAILS

SINGLE ANGLE CONNECTION SCHEDULE (LRFD)

BEAM SIZE	WELD SIZE	OFFSET					
		0"		2 1/2" MAX		5" MAX	
		NUMBER OF BOLTS	SHEAR CAPACIT Y	NUMBER OF BOLTS	SHEAR CAPACIT Y	NUMBER OF BOLTS	SHEAR CAPACIT Y
W8 W10	3/16"	2	22K	2	14K*	-	14K
W12 W14	1/4"	3	43K	3	26K	2	26K**
W16 W18	1/4"	4	64K	4	64K	3	46K
W21	1/4"	5	80K	5	80K	4	64K
W24	1/4"	6	95K	6	95K	5	80K
W27	1/4"	7	111K	7	111K	6	95K
W30 W33	1/4"	8	127K	8	127K	7	111K
W36	1/4"	9	143K	9	143K	9	143K

NOTES:
1. BOLTS ARE 3/4"Ø A325N BOLTS. HOLES ARE 13/16"Ø HOLES IN SUPPORT MEMBER AND 13/16"x1" HORIZONTAL SHORT SLOTS IN ANGLES.
2. OFFSET INDICATES HEIGHT OF BEAM ABOVE GIRDER.

* W10 BEAMS ONLY
** W12 BEAMS ONLY

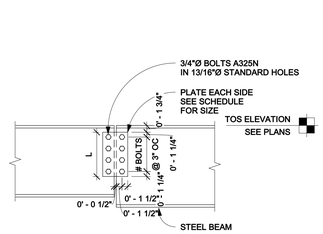


A WELDED CONNECTION AT GIRDER
B BOLTED CONNECTION AT BEAM

22 S-012 TYPICAL SINGLE ANGLE CONNECTION
1" = 1'-0"

CONNECTION SCHEDULE (LRFD)

BEAM SIZE	NUMBER OF BOLTS	L=PLATE LENGTH	PLATE THICKNES S	SHEAR CAPACIT Y
W8 W10	2	5 1/2"	1/4"	18K
W12 W14	3	8 1/2"	1/4"	36K
W16 W18	4	11 1/2"	1/4"	73K
W21	5	14 1/2"	1/4"	135K
W24	6	17 1/2"	1/4"	165K
W27	7	20 1/2"	1/4"	193K
W30 W33	8	23 1/2"	5/16"	239K
W36	9	26 1/2"	5/16"	271K



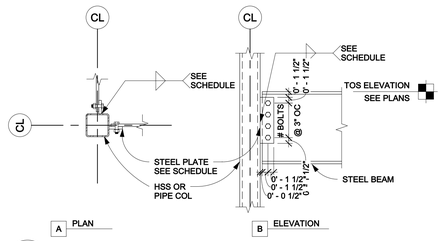
23 S-012 TYPICAL BEAM SPLICE DETAIL
3/4" = 1'-0"

CONNECTION SCHEDULE (LRFD)

BEAM SIZE	NUMBER OF BOLTS	L=PLATE LENGTH	PLATE THICKNES S	WELD SIZE	SHEAR CAPACIT Y
W8 W10	2	6"	1/4"	3/16"	18K
W12 W14	3	9"	1/4"	3/16"	36K
W16 W18	4	12"	1/4"	3/16"	53K
W21	5	15"	5/16"	1/4"	70K
W24	6	18"	5/16"	1/4"	87K
W27	7	21"	3/8"	1/4"	99K
W30 W33	8	24"	3/8"	5/16"	111K
W36	9	27"	7/16"	5/16"	123K

NOTE:

BOLTS ARE 3/4"Ø A325N BOLTS. HOLES ARE 13/16"Ø HOLES IN SUPPORT MEMBER AND 13/16"x1" HORIZONTAL SHORT SLOPS IN PLATES.

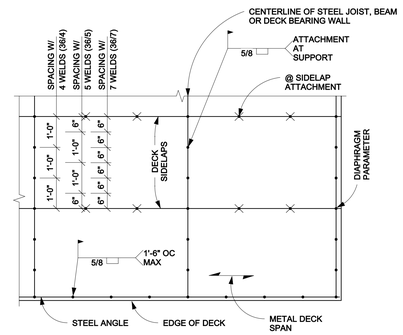


A PLAN
B ELEVATION

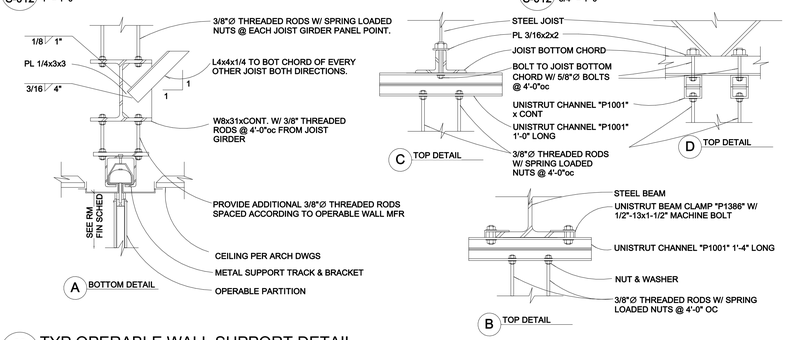
24 S-012 TYPICAL STEEL BEAM/COLUMN CONNECTION
3/4" = 1'-0"

DECK ATTACHMENT SCHEDULE

ATTACHMENT TYPE	ATTACHMENT @ SUPPORTS	ATTACHMENT @ SIDELAPS	REMARKS
A	36/4: 4-5/8" Ø PER 36" WIDE SHEET	2-#10 SCREWS @ 1/3 POINTS	USE UNO ON PLANS
B	36/7: 7-5/8" Ø PER 36" WIDE SHEET	9-#10 SCREWS @ 1/10 POINTS	USE AT LOW ROOF
C	36/7: 7-5/8" Ø PER 36" WIDE SHEET	5-#10 SCREWS @ 1/6 POINTS	USE AT HIGH ROOF
D	36/4: 4-5/8" Ø PER 36" WIDE SHEET	5-#10 SCREWS @ 1/6 POINTS	
E	36/7: 7-5/8" Ø PER 36" WIDE SHEET	3-#10 SCREWS @ 1/4 POINTS	



25 S-012 TYPICAL ROOF OR FLOOR DECK ATTACH
1" = 1'-0"

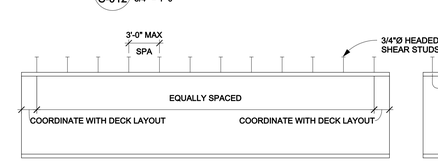


A BOTTOM DETAIL

C TOP DETAIL
D TOP DETAIL

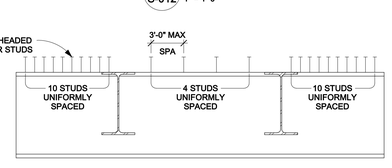
B TOP DETAIL

32 S-012 TYP OPERABLE WALL SUPPORT DETAIL
1" = 1'-0"



NOTES:
1. THE NUMBER IN BRACKETS [#] FOLLOWING THE BEAM SIZE ON THE PLANS INDICATES THE NUMBER OF 3/4" HEADED STUDS TO BE PLACED ON THE BEAM.
2. THE MAXIMUM STUD SPACING SHALL BE 3'-0"
3. DECK VALLEYS WITHOUT STUDS SHALL BE WELDED.
4. STUD PLACEMENT SHALL BE:
   A. WHEN THE NUMBER OF STUDS IS LESS THAN THE NUMBER OF DECK VALLEYS UNIFORMLY SPACE STUDS SYMMETRICALLY WITH THE BEAM CENTERLINE.
   B. WHEN THE NUMBER OF STUDS IS GREATER THAN THE NUMBER OF DECK VALLEYS PLACE ONE STUD IN EACH VALLEY STARTING AT THE END OF THE BEAM. WHEN TWO STUDS ARE REQUIRED PLACE STUDS 1 1/2" EACH SIDE OF THE BEAM WEB.

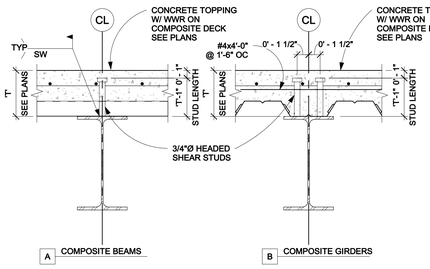
A COMPOSITE BEAMS



NOTES:
1. THE SERIES OF NUMBERS SHOWN IN BRACKETS [#,#,#] FOLLOWING THE GIRDER SIZE, ON THE PLANS, WHEN ADDED TOGETHER REPRESENT THE TOTAL NUMBER OF 3/4" STUDS TO BE PLACED ON THE GIRDER. FOR EXAMPLE [10,4,10] REPRESENTS A TOTAL OF 24 STUDS TO BE LOCATED ON THE GIRDER. THE FIRST (LAST) NUMBER REPRESENTING THE NUMBER OF STUDS TO BE PLACED BETWEEN THE END OF THE GIRDER AND THE FIRST (LAST) INTERSECTING BEAM. THE MIDDLE NUMBER REPRESENTS THE NUMBER OF STUDS TO BE LOCATED BETWEEN THE TWO INTERSECTING BEAMS.
2. PLACE STUDS UNIFORMLY ALONG THE BEAM OR PORTION OF BEAM INDICATED.
3. MAXIMUM STUD SPACING SHALL BE 3'-0".
4. MINIMUM STUD SPACING SHALL BE 4 1/2". IF THE REQUIRED NUMBER OF STUDS EXCEEDS WHAT CAN BE PLACED AT 4 1/2", PLACE A SECOND ROW OF STUDS SPACED AT 4 1/2" OC, STARTING AT THE END OF THE BEAM, UNTIL THE REQUIRED NUMBER OF STUDS IS REACHED. WHEN TWO ROWS ARE REQUIRED, PLACE STUDS 1 1/2" EACH SIDE OF THE BEAM CENTERLINE.

B COMPOSITE GIRDERS

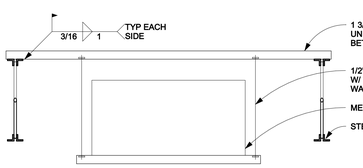
34 S-012 TYPICAL COMPOSITE BEAM STUD PLACEMENT DETAIL
1" = 1'-0"



A COMPOSITE BEAMS
B COMPOSITE GIRDERS

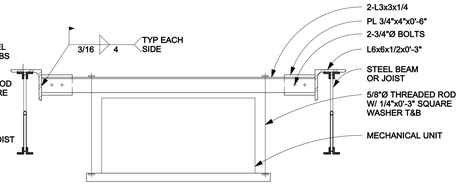
NOTE:
PROVIDE DECK GIRDER FILLER PLATE IF REQUIRED

42 S-012 TYPICAL COMPOSITE BEAM & GIRDER
1 1/2" = 1'-0"



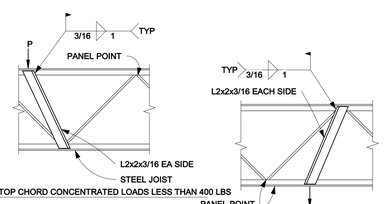
A UNITS WEIGHTING LESS THAN 500 LBS

NOTE:
VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR



B UNITS WEIGHTING BETWEEN 500 AND 3,000 LBS

43 S-012 TYPICAL HANGING MECHANICAL UNIT DETAILS
1" = 1'-0"

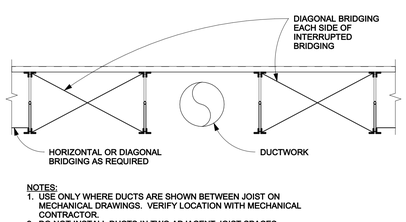


A TOP CHORD CONCENTRATED LOADS LESS THAN 400 LBS

NOTE:
PROVIDED REINFORCEMENT WHEN CONCENTRATED LOAD IS MORE THAN 4" FROM PANEL POINT

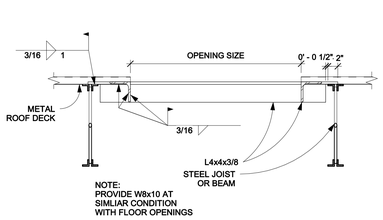
B BOTTOM CHORD CONCENTRATED LOADS LESS THAN 200 LBS

45 S-012 TYPICAL JOIST REINFORCEMENT DETAIL
1" = 1'-0"



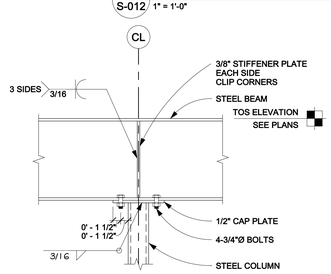
NOTES:
1. USE ONLY WHERE DUCTS ARE SHOWN BETWEEN JOIST ON MECHANICAL DRAWINGS. VERIFY LOCATION WITH MECHANICAL CONTRACTOR.
2. DO NOT INSTALL DUCTS IN TWO ADJACENT JOIST SPACES.

52 S-012 TYPICAL INTERRUPTION OF BRIDGING
3/4" = 1'-0"

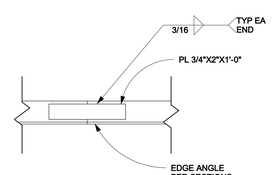


NOTE:
PROVIDE W8x10 AT SIMLIAR CONDITION WITH FLOOR OPENINGS

53 S-012 TYPICAL FLOOR AND ROOF OPENING DETAIL
1" = 1'-0"



54 S-012 TYPICAL BEAM TO COLUMN DETAIL
1" = 1'-0"



55 S-012 TYP PERIMETER ANGLE SPLICE
1 1/2" = 1'-0"

HOEFER WELKER
4622 PENNSYLVANIA AVE.
Suite 1400
KANSAS CITY, MO 64112
P: 913.307.3700
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J&S STRUCTURAL ENGINEERS
7302 W 145th Terrace
Overland Park, KS 66223
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REVISION DATES:

1	ADDENDUM #1	9/19/24

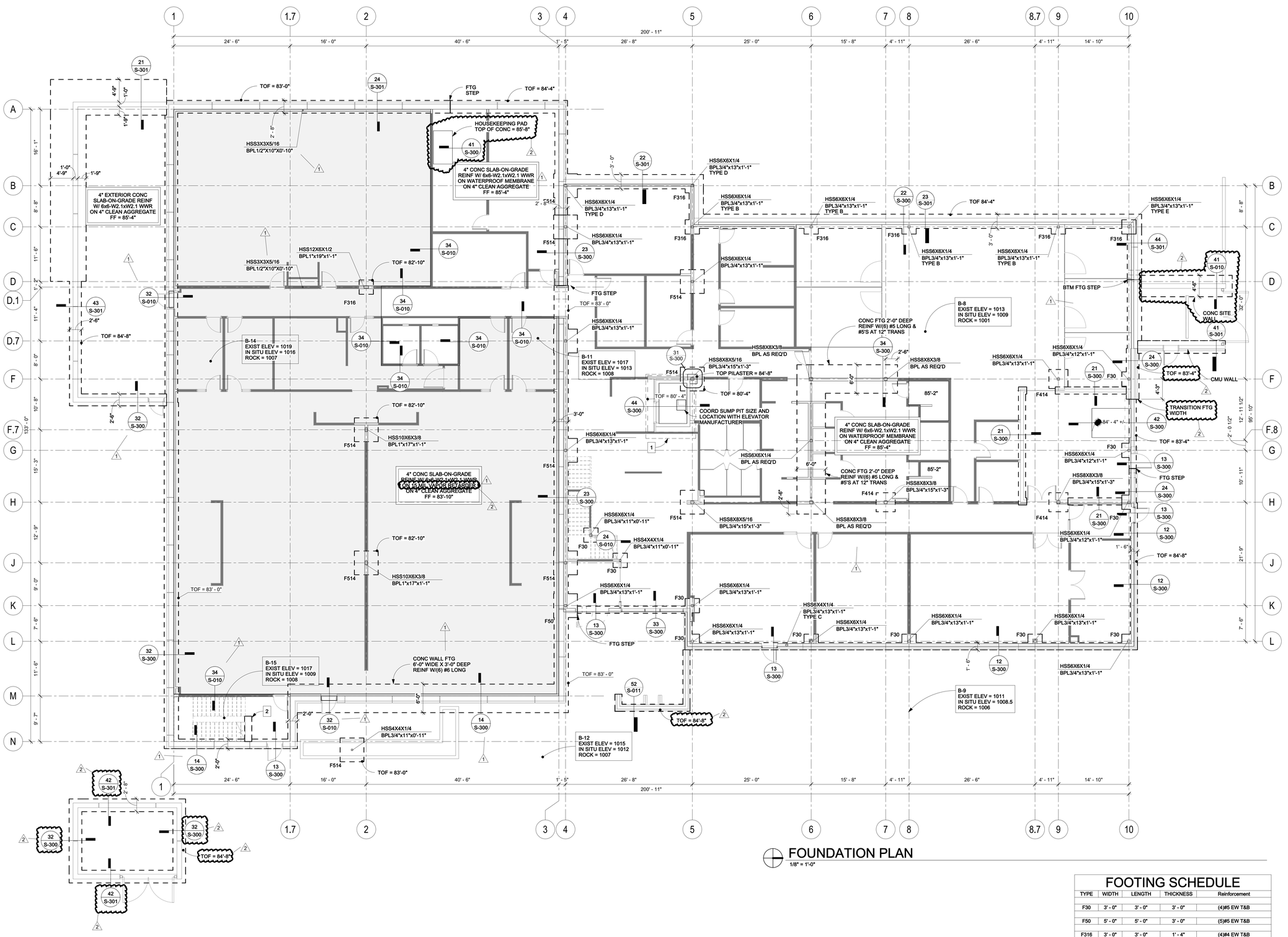
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PE-2005029615
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

S-012

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

TYPICAL STRUCTURAL STEEL DETAILS



FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	Reinforcement
F30	3' - 0"	3' - 0"	3' - 0"	(4)#5 EW T&B
F50	5' - 0"	5' - 0"	3' - 0"	(5)#5 EW T&B
F316	3' - 0"	3' - 0"	1' - 4"	(4)#4 EW T&B
F414	4' - 0"	4' - 0"	1' - 4"	(5)#5 EW T&B
F514	5' - 0"	5' - 0"	1' - 4"	(6)#5 EW T&B

FOUNDATION NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRWAINGS PRIOR TO CONSTRUCTION.
2. COORDINATE TOP OF FOOTING ELEVATIONS WITH LATEST CIVIL DRAWINGS PRIOR TO CONSTRUCTION TO MAINTAIN 3'-0" MINIMUM FROST DEPTH. TOP OF FOOTING ELEVATION = 99'-4" UNLESS OTHERWISE SHOWN THUS.
3. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND WALL OPENINGS AND LOCATION OF THICKENED, SLOPED, RAISED, OR DEPRESSED SLABS.
4. PROVIDE ISOLATION JOINTS AND SAW CUT CONTROL JOINTS IN SLAB ON GRADE AS SHOWN IN DETAIL 13 ON SHEET S0.10 AND 15'-0" OC MAX.
5. ABBV: BPL - BASE PLATE
6. ALL BASEPLATES ARE TYPE A UNLESS NOTED OTHERWISE. SEE 21/S-010.

KEY NOTES:

1 (2)#6 IN EA CELL AT ELEVATOR SHAFT

2 THICKENED SLAB W/(2) #4

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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

1	ADDENDUM #1	9/19/24
2	ADDENDUM #2	10/30/24

STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005029619
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

S-100

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

FOUNDATION PLAN

FRAMING NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRWAINGS PRIOR TO CONSTRUCTION.
2. TRUSS GIRDER HEIGHT TO MATCH MONOTRUSS HEIGHT AS REQ'D.

TOS = 98'-6"

TOS = 99'-0"

KEY NOTES:

1. HOUSEKEEPING PAD - TOP OF CONCRETE = 100'-4"
2. FRAME FLOOR OPENING W/ W8X10 EA SIDE AS REQ'D
3. PRECAST STAIR SYSTEM
4. 600S162-43 SPA AT 16" OC
5. BOXED BEAM - (2)600S162-54
6. C6X8.2 VERT & BRICK SUPPORT PLATE SEE 45/S-300
7. METAL GRATING - GW-19-W-2 W/ 1" X 3/16" BARS
8. PROVIDE 16" WIDE EMBED PLATE TO ALLOW FOR BEAM LOCATION ADJUSTMENT

MAIN LEVEL FLOOR FRAMING
1/8" = 1'-0"

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MAIN FLOOR FRAMING PLAN

FRAMING NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRWAINGS PRIOR TO CONSTRUCTION.
2. TRUSS GIRDER HEIGHT TO MATCH MONOTRUSS HEIGHT AS REQ'D.

KEY NOTES

1 600S162-43 SPA AT
2 L4X4X3/8" BET JOISTS
3 600S162-43 SPA AT 16" OC
4 BRICK SUPPORT PLATE & C6X8.2 VERT SPA AT 4'-0" OC - SEE 14/S-510
5 BRICK SUPPORT PLATE & C6X8.2 VERT SPA AT 4'-0" OC - SEE 43/S-510

SEE 12/S-411 FOR BRACING
W16X40 OPERABLE PARTITION BEAM SEE 32/S-012
EXTEND COL TO BTM OF ROOF PROVIDE SLOT CONNECTION AT DOUBLE TEE
52" PRECAST DOUBLE TEE ROOF SYSTEM
HSS6X6X3/8 STUB COL
ROOF HATCH
1 1/2"X22 GA WIDE RIB METAL DECK
FRAME 1
FRAME 2
TOS = 116'-6 1/2"
TOS = 117'-2 1/2"
TOS = 117'-0"
TOS = 116'-9 1/2"
TOS = 116'-8"
TOS = 116'-5 1/2"
TOS = 116'-0 1/2"
TOS = 115'-10"
BOMD = 116'-6 1/2"
BOMD = 117'-2 1/2"
BOMD = 116'-8"
BOMD = 116'-0 1/2"

ROOF FRAMING PLAN
1/8" = 1'-0"

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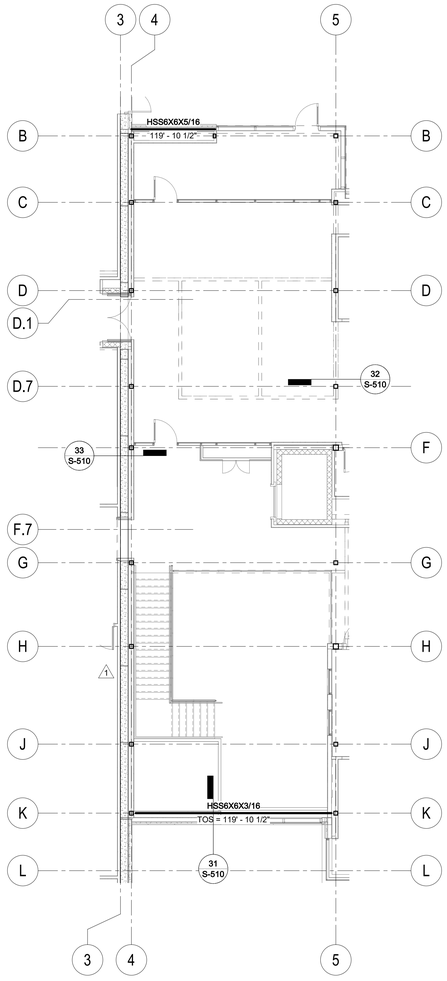
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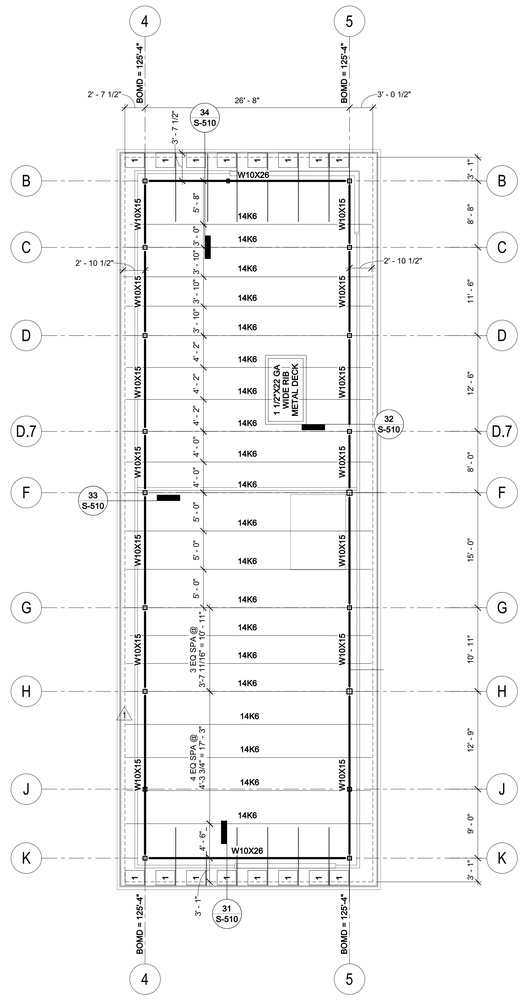
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HOEFER WELKER #: 138161

ROOF FRAMING PLAN



WIND BEAM PLAN

1/8" = 1'-0"



HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

FRAMING NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRWAINGS PRIOR TO CONSTRUCTION.
2. TOS = 125'-0" UNLESS NOTED OTHERWISE.

KEY NOTES

1 L4X4X1/4" OUTRIGGER SPA AT 4'-0" OC

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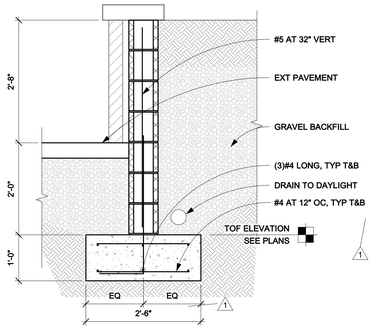
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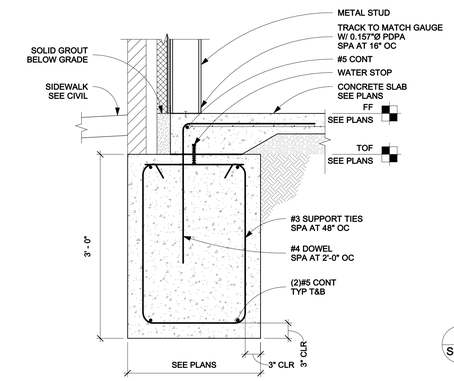
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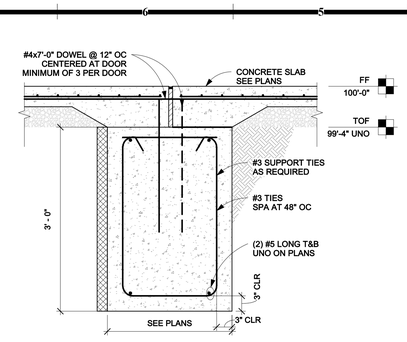
HIGH ROOF FRAMING PLAN



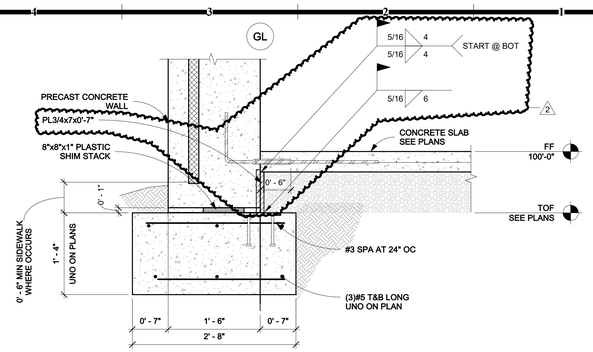
11 S-300 TYP MASONRY PLANTER WALL 3/4" = 1'-0"



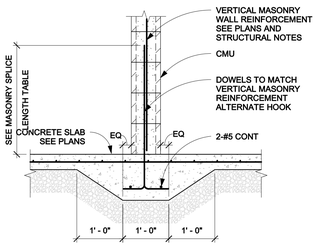
12 S-300 TYP GRADE BEAM AT STUD WALL 1" = 1'-0"



13 S-300 TYPICAL GRADE BEAM AT MAN DOOR 1" = 1'-0"

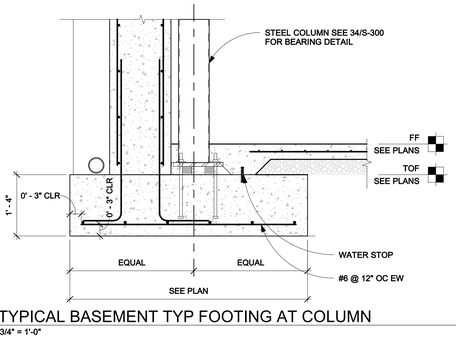


14 S-300 TYPICAL EXTERIOR FOOTING AT PRECAST 1" = 1'-0"

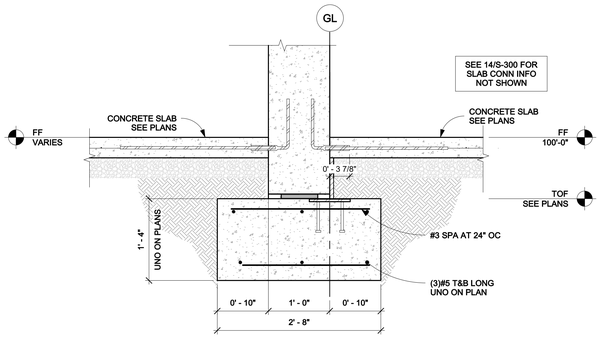


NOTE:
CONTRACTOR HAS THE OPTION TO EPOXY DOWELS INTO THICKENED SLAB AS AN ALTERNATIVE TO HOOKED DOWELS. SEE EPOXY EMBEDMENT TABLE.

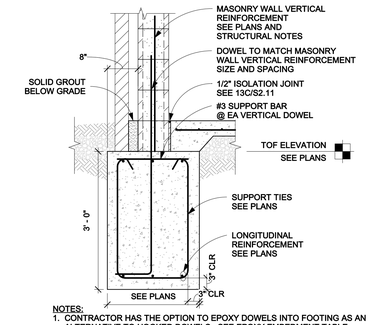
21 S-300 TYPICAL THICKENED SLAB AT CMU 3/4" = 1'-0"



22 S-300 TYPICAL BASEMENT TYP FOOTING AT COLUMN 3/4" = 1'-0"

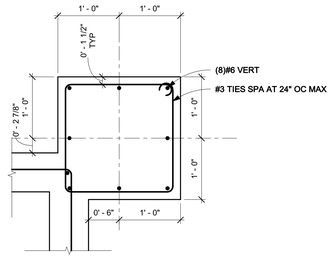


23 S-300 TYPICAL INTERIOR FOOTING DETAIL 1" = 1'-0"

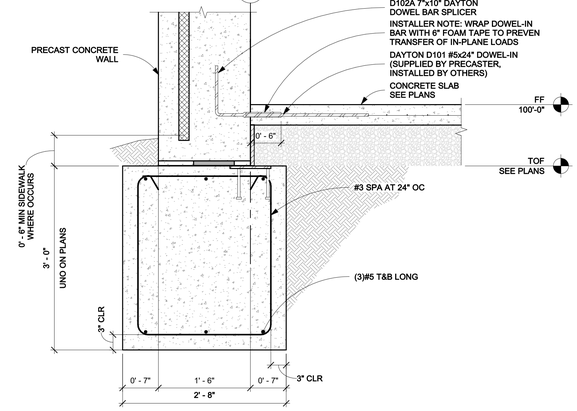


NOTES:
1. CONTRACTOR HAS THE OPTION TO EPOXY DOWELS INTO FOOTING AS AN ALTERNATIVE TO HOOKED DOWELS. SEE EPOXY EMBEDMENT TABLE.

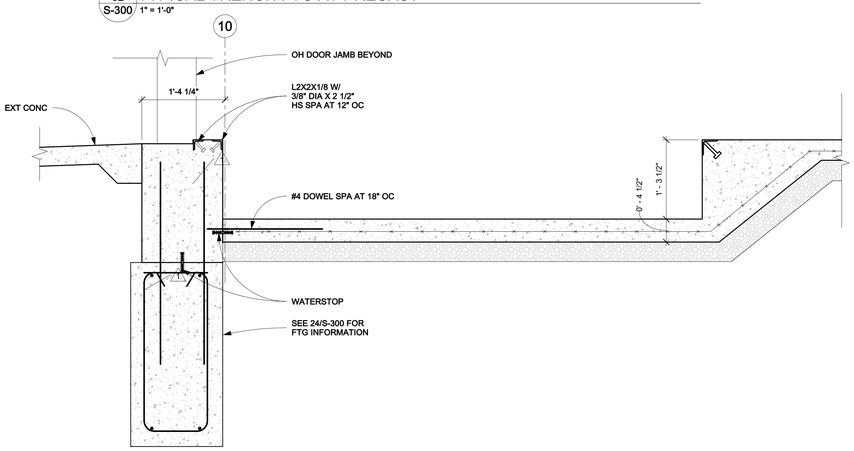
24 S-300 TYPICAL MASONRY WALL FOOTING 3/4" = 1'-0"



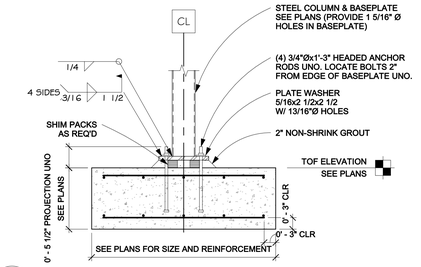
31 S-300 PILASTER DETAIL 1" = 1'-0"



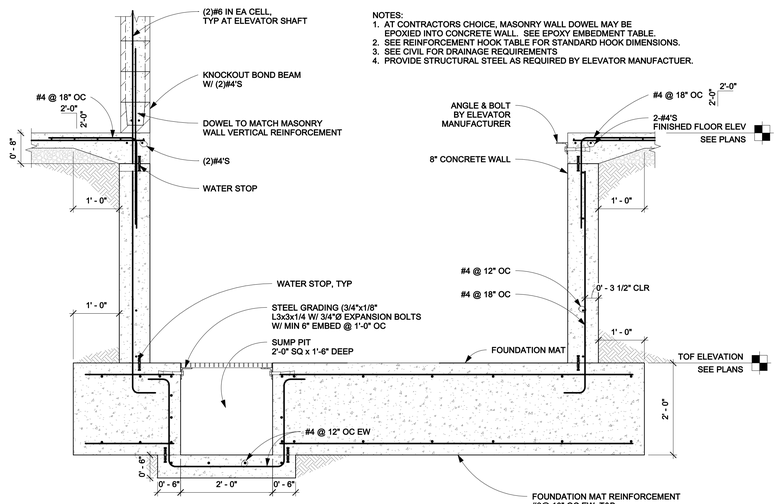
32 S-300 TYPICAL TRENCH FTG AT PRECAST 1" = 1'-0"



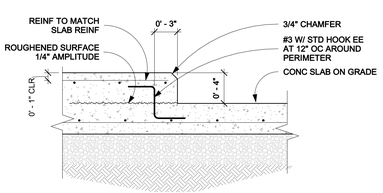
33 S-300 TYP GRADE BEAM AT STOREFRONT / GLAZING 1" = 1'-0"



34 S-300 TYPICAL SPREAD FOOTING DETAIL 3/4" = 1'-0"



NOTES:
1. AT CONTRACTORS CHOICE, MASONRY WALL DOWEL MAY BE EPOXIED INTO CONCRETE WALL. SEE EPOXY EMBEDMENT TABLE.
2. SEE REINFORCEMENT HOOK TABLE FOR STANDARD HOOK DIMENSIONS.
3. SEE CIVIL FOR DRAINAGE REQUIREMENTS
4. PROVIDE STRUCTURAL STEEL AS REQUIRED BY ELEVATOR MANUFACTUER.



41 S-300 HOUSEKEEPING PAD DETAIL 1 1/2" = 1'-0"

42 S-300 LEVELER AT OH DOOR 1" = 1'-0"

44 S-300 TYPICAL ELEVATOR PIT DETAIL 3/4" = 1'-0"

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JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

LEE'S SUMMIT JOINT OPERATIONS

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LEE'S SUMMIT, MISSOURI 64086

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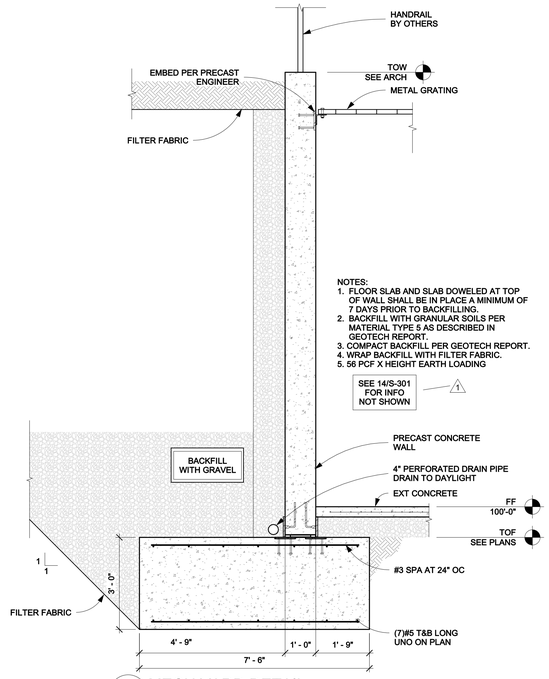
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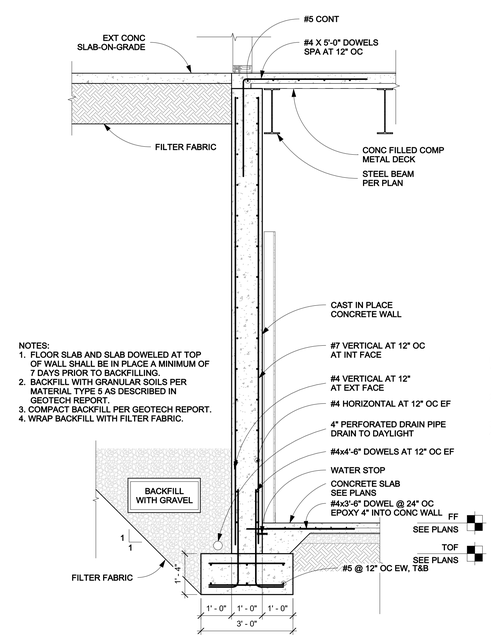
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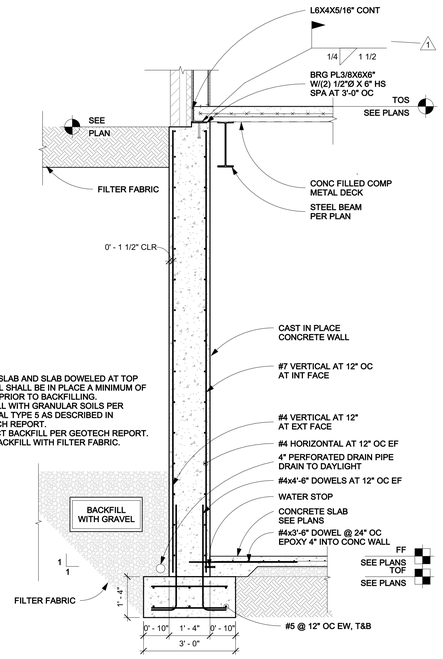
FOUNDATION DETAILS



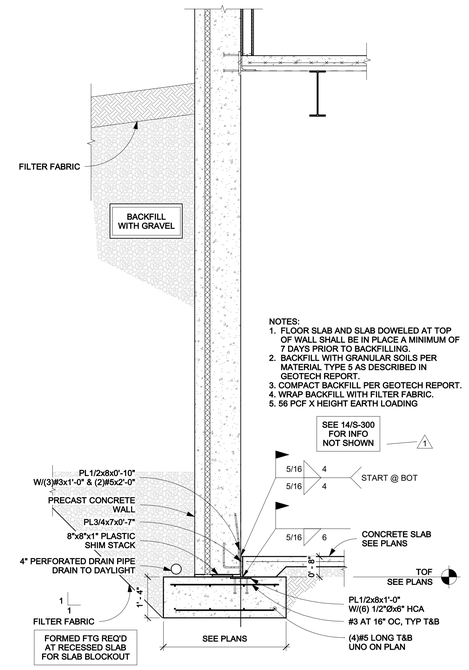
21 MECH YARD DETAIL
S-301 1/2" = 1'-0"



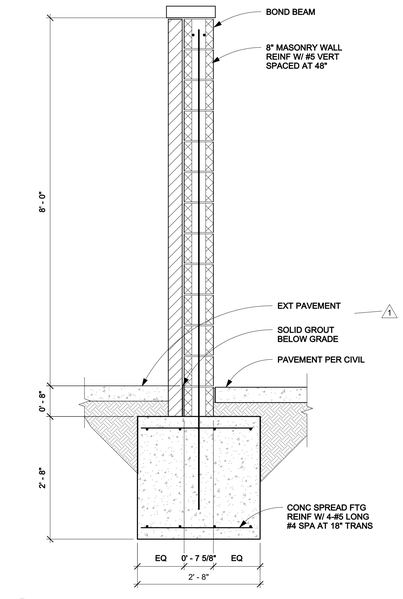
22 CONC BASEMENT WALL DETAIL
S-301 1/2" = 1'-0"



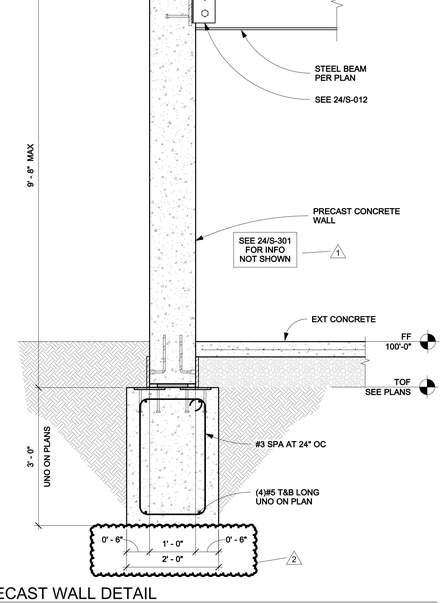
23 BASEMENT WALL WEST
S-301 1/2" = 1'-0"



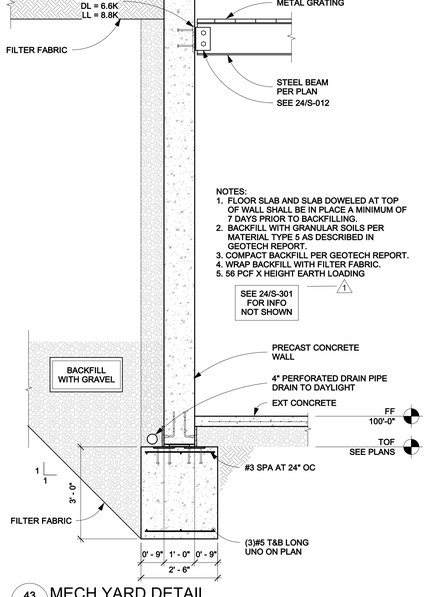
24 PRECAST BASEMENT WALL DETAIL
S-301 1/2" = 1'-0"



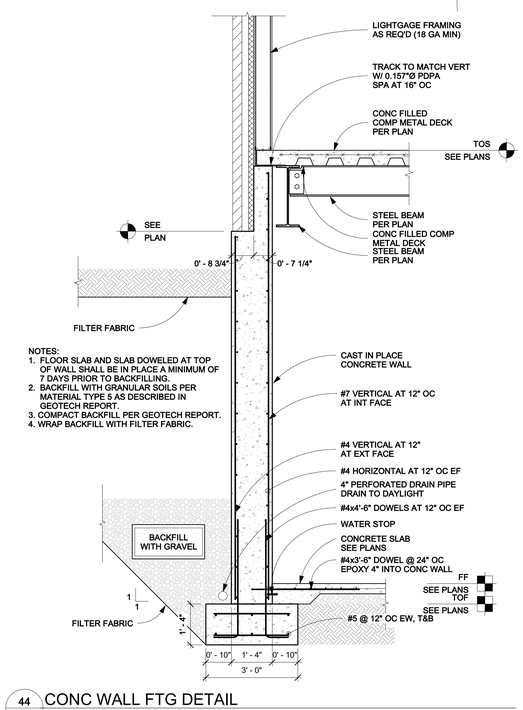
41 TYPICAL TRASH ENCLOSURE FTG DETAIL
S-301 3/4" = 1'-0"



42 PRECAST WALL DETAIL
S-301 3/4" = 1'-0"



43 MECH YARD DETAIL
S-301 1/2" = 1'-0"



44 CONC WALL FTG DETAIL
S-301 1/2" = 1'-0"

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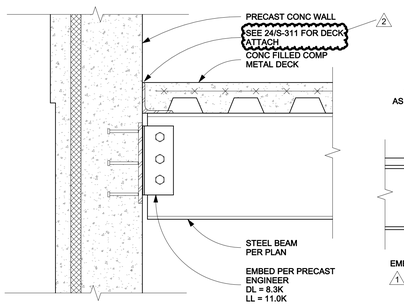
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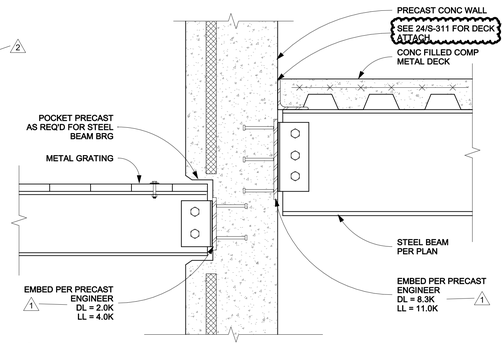
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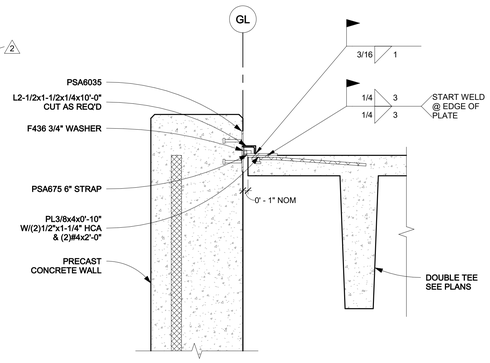
FOUNDATION WALL SECTIONS



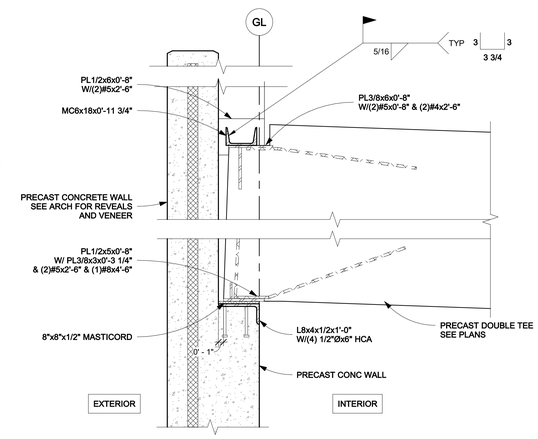
11 S-311 BEAM / PRECAST DETAIL 1" = 1'-0"



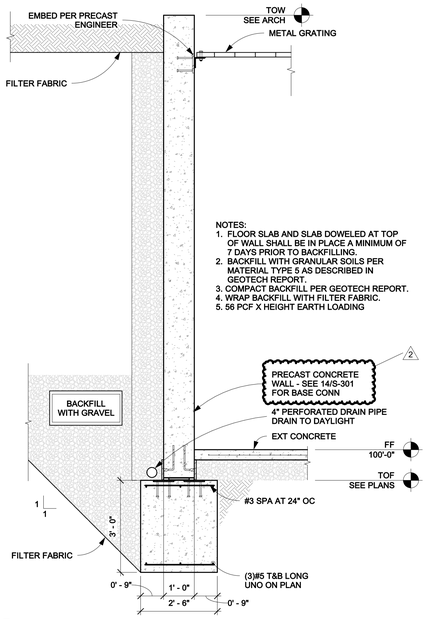
12 S-311 BM BRG AT MECH EXT PRECAST WALL 1" = 1'-0"



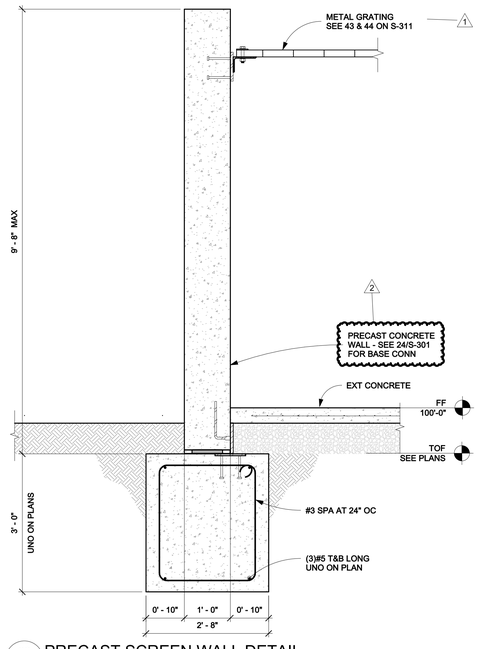
13 S-311 DOUBLE TEE AT CAST-IN-PLACE WALL 1" = 1'-0"



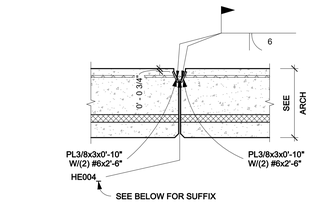
14 S-311 DOUBLE TEE BEARING AT PRECAST WALL 1" = 1'-0"



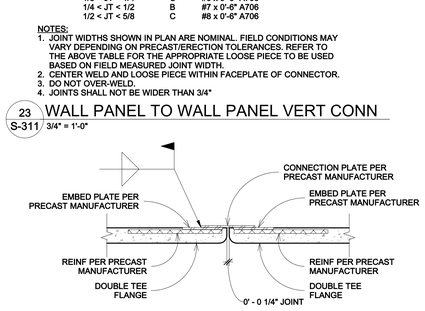
31 S-311 MECH YARD DETAIL 1/2" = 1'-0"



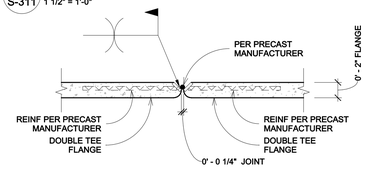
32 S-311 PRECAST SCREEN WALL DETAIL 3/4" = 1'-0"



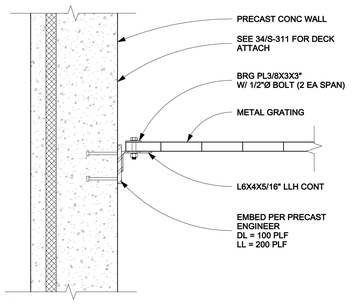
23 S-311 WALL PANEL TO WALL PANEL VERT CONN 3/4" = 1'-0"



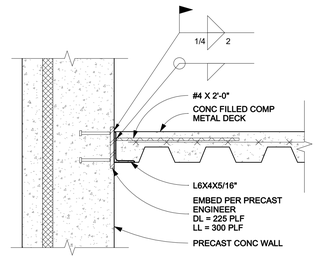
33 S-311 DBL TEE CHORD TIE CONNECTION 1 1/2" = 1'-0"



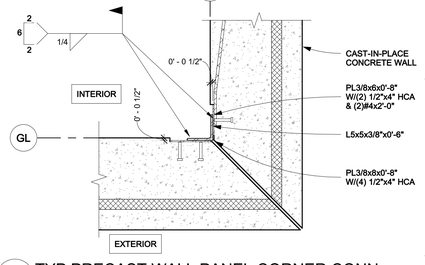
34 S-311 DBL TEE FLANGE TO FLANGE CONN 1 1/2" = 1'-0"



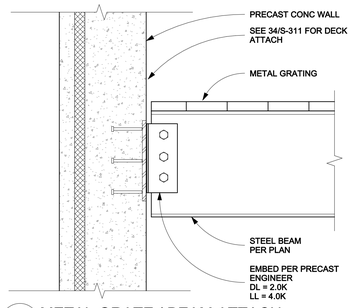
43 S-311 TYP METAL GRATE BRG DETAIL 1" = 1'-0"



24 S-311 TYP FLOOR / PRECAST DETAIL 1" = 1'-0"



35 S-311 TYP PRECAST WALL PANEL CORNER CONN 1" = 1'-0"



44 S-311 METAL GRATE / BEAM ATTACH 1" = 1'-0"

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4622 PENNSYLVANIA AVE.
Suite 1400
KANSAS CITY, MO 64112
P: 913.307.3700
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LEE'S SUMMIT JOINT OPERATIONS

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LEE'S SUMMIT, MISSOURI 64086

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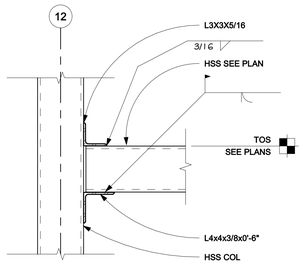
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KIMBERLY EBERT JONES
PE-2005023619
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

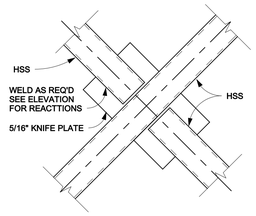
S-311

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

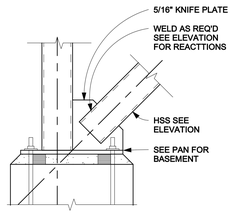
PRECAST CONCRETE DETAILS



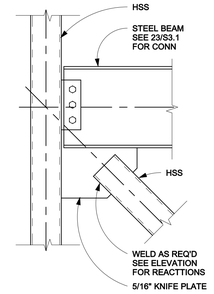
11 TUBE TO TUBE CONNECTION
S-410 1 1/2" = 1'-0"



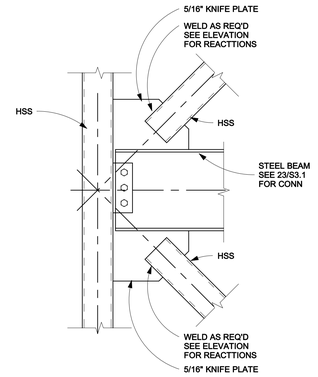
12 TYP BRACE AT INTERSECTION
S-410 1" = 1'-0"



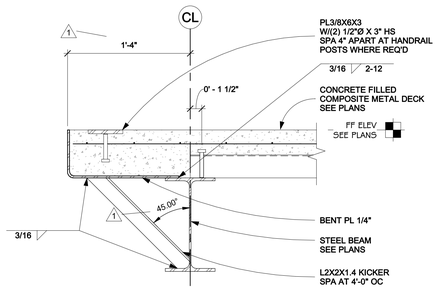
13 TYP BRACE AT FOUNDATION
S-410 1" = 1'-0"



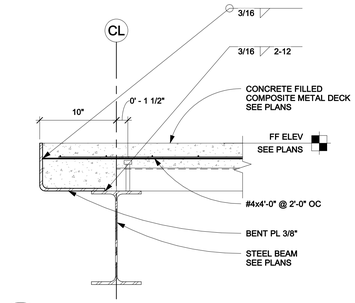
14 TYP BRACE DETAIL AT ROOF
S-410 1" = 1'-0"



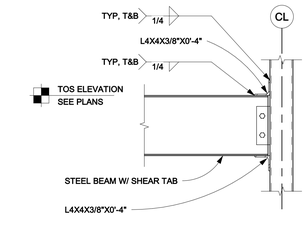
15 TYP BRACE DETAIL AT BEAM
S-410 1" = 1'-0"



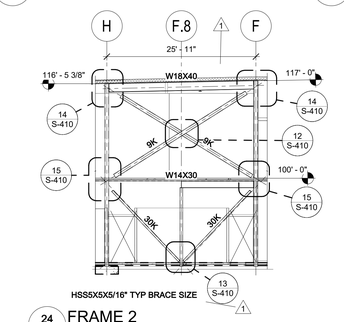
21 TYPICAL COMP SLAB EDGE DETAIL
S-410 1 1/2" = 1'-0"



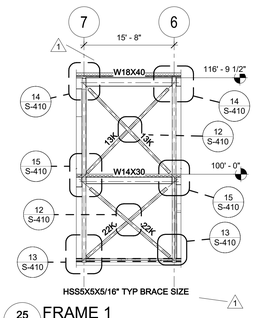
22 COMP SLAB EDGE BEARING
S-410 1 1/2" = 1'-0"



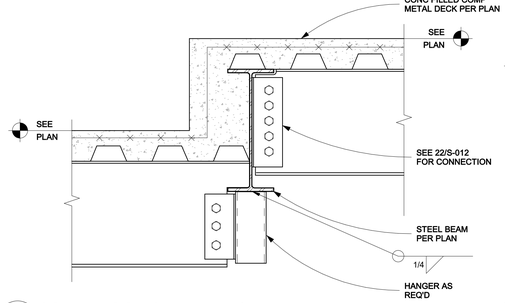
23 MOMENT CONNECTION
S-410 3/4" = 1'-0"



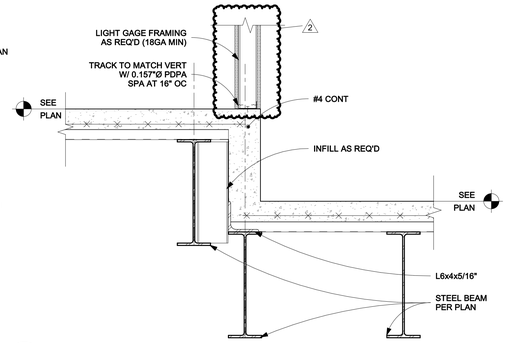
24 FRAME 2
S-410 3/32" = 1'-0"



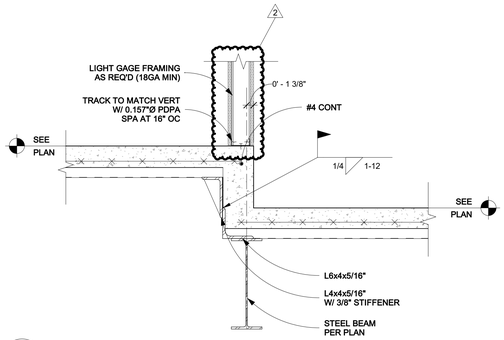
25 FRAME 1
S-410 3/32" = 1'-0"



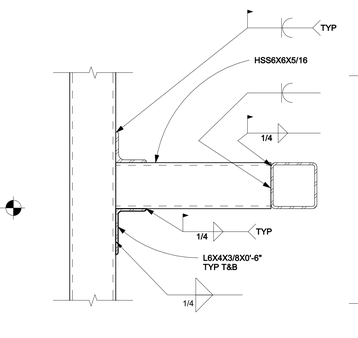
31 COMP FLOOR STEP DETAIL
S-410 1" = 1'-0"



32 COMP FLOOR STEP DETAIL
S-410 1" = 1'-0"

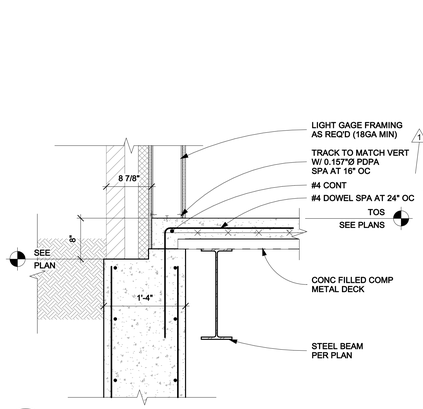


33 COMP FLOOR STEP DETAIL
S-410 1" = 1'-0"

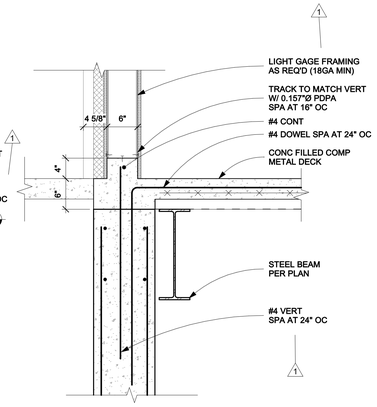


34 WIND BEAM ATTACHMENT
S-410 1 1/2" = 1'-0"

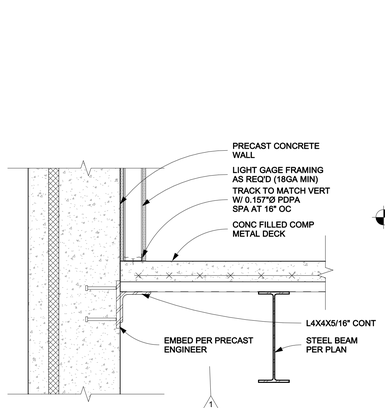
35 TUBE / COL DETAIL
S-410 1 1/2" = 1'-0"



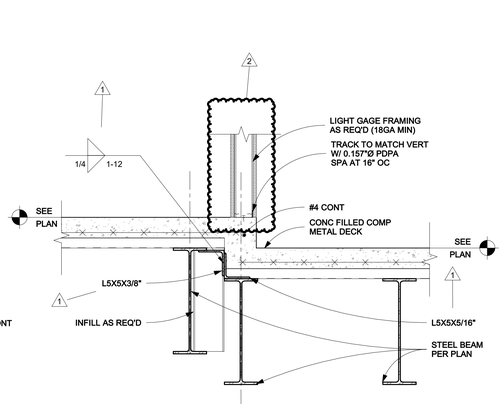
41 FLOOR / DECK BRG DETAIL
S-410 1" = 1'-0"



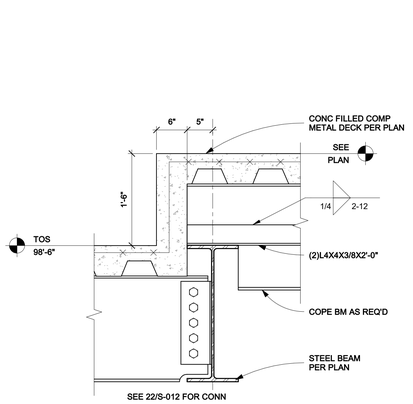
42 SLAB / CONC WALL DETAIL
S-410 1" = 1'-0"



43 DECK / PRECAST CONN
S-410 1" = 1'-0"



44 COMP FLOOR STEP DETAIL
S-410 1" = 1'-0"



45 COMP FLOOR STEP DETAIL
S-410 1" = 1'-0"

HOEFER WELKER
4622 PENNSYLVANIA AVE.
Suite 1400
KANSAS CITY, MO 64112
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J&S STRUCTURAL ENGINEERS
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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

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1	ADDENDUM #1	9/19/24
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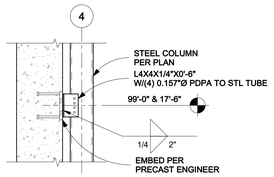
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10/30/24

PROFESSIONAL SEAL

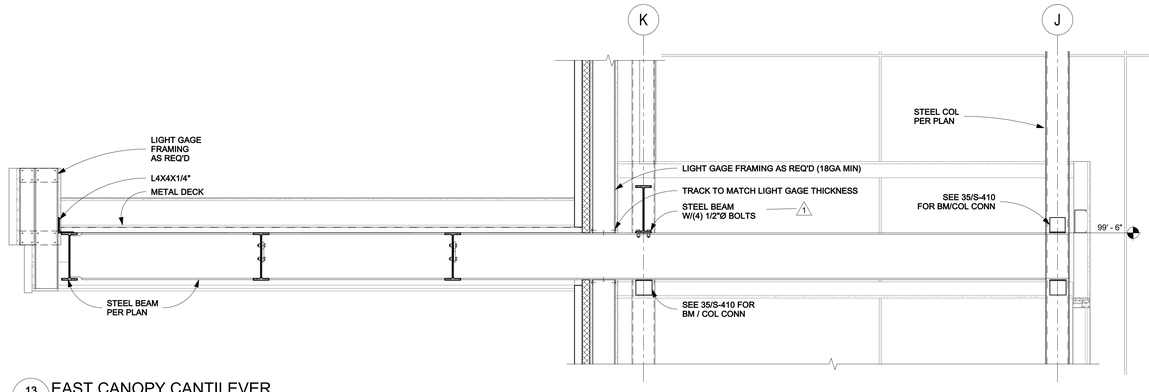
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ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

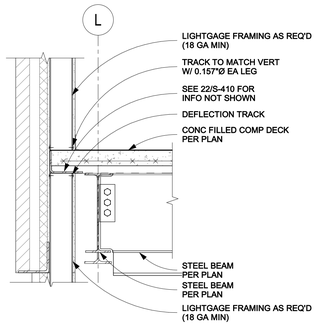
FRAMING DETAILS



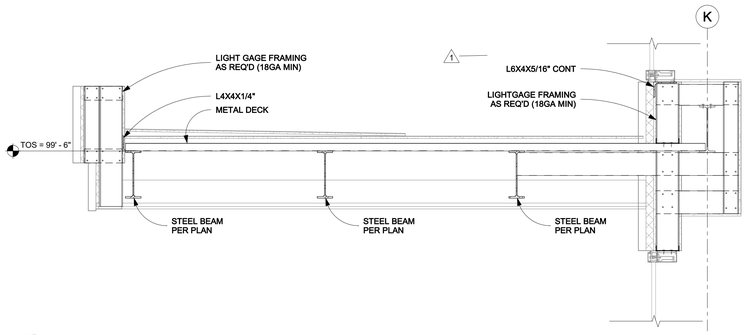
12 S-411 COLUMN BRACE AT PRECAST
3/4" = 1'-0"



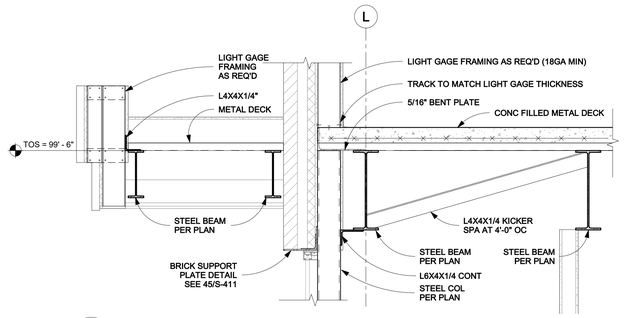
13 S-411 EAST CANOPY CANTILEVER
3/4" = 1'-0"



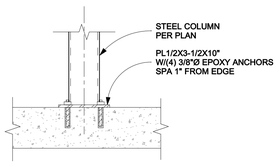
21 S-411 DECK EDGE AT LIGHTGAGE
3/4" = 1'-0"



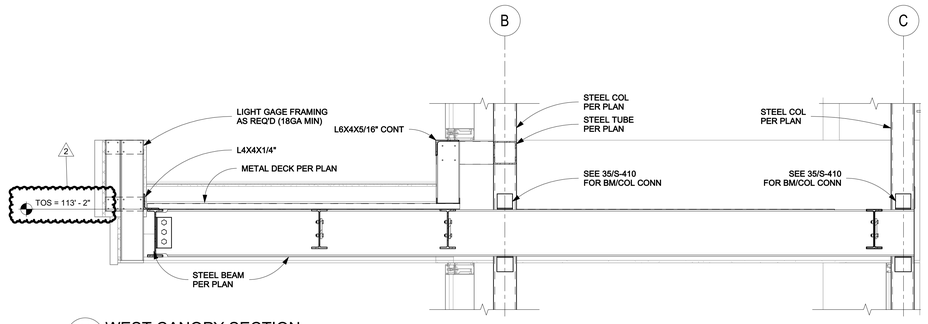
22 S-411 EAST CANOPY SECTION
3/4" = 1'-0"



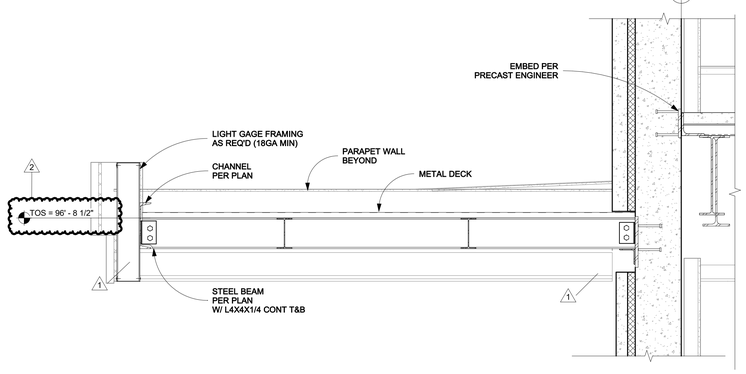
24 S-411 EAST CANOPY SECTION
3/4" = 1'-0"



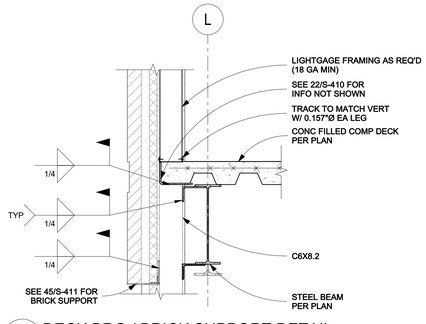
31 S-411 OP COL DETAIL
1" = 1'-0"



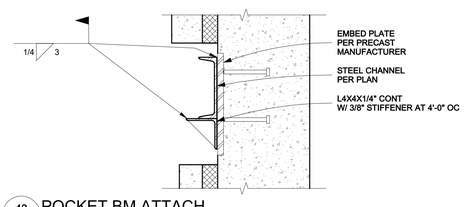
32 S-411 WEST CANOPY SECTION
3/4" = 1'-0"



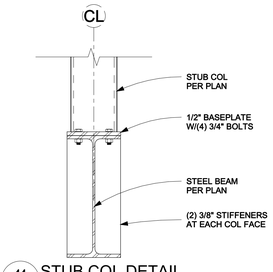
34 S-411 PATIO CANOPY SECTION
3/4" = 1'-0"



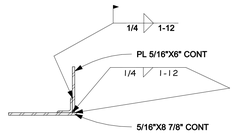
42 S-411 DECK BRG / BRICK SUPPORT DETAIL
3/4" = 1'-0"



43 S-411 POCKET BM ATTACH
1 1/2" = 1'-0"



44 S-411 STUB COL DETAIL
1 1/2" = 1'-0"



45 S-411 BRICK SUPPORT PLATE DETAIL
1 1/2" = 1'-0"

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4622 PENNSYLVANIA AVE.
Suite 1400
KANSAS CITY, MO 64112
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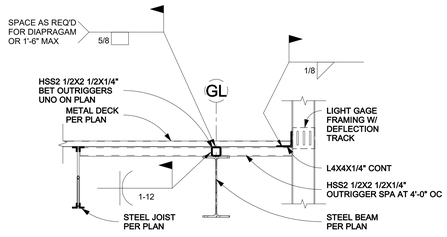
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KIMBERLY EBERT JONES
PE-2005029619
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

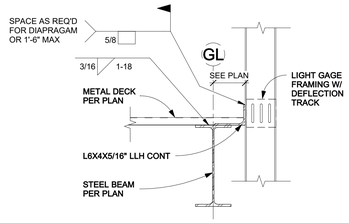
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ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

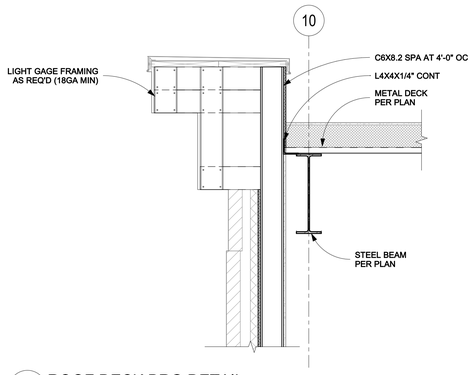
FLOOR FRAMING DETAILS



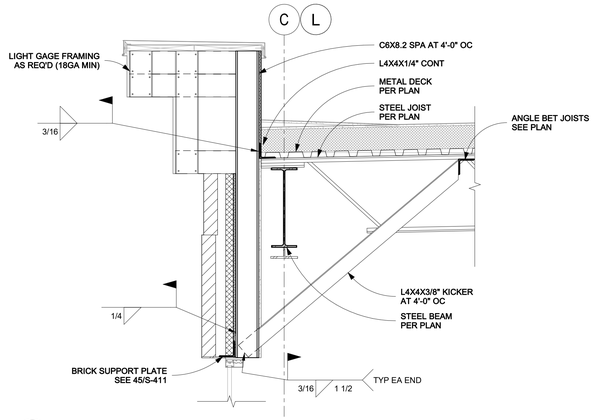
11 S-510 TYP OUTRIGGER DETAIL
3/4" = 1'-0"



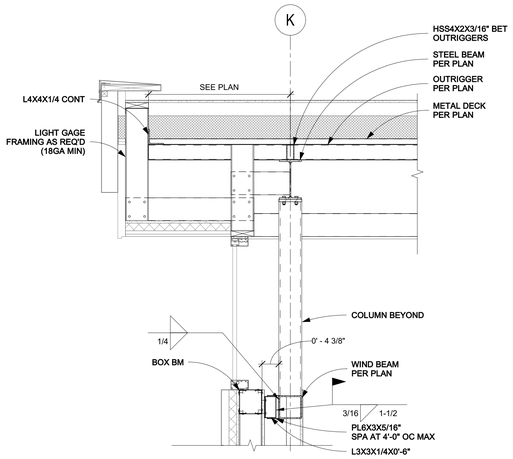
12 S-510 TYP DECK SUPPORT SECTION
1" = 1'-0"



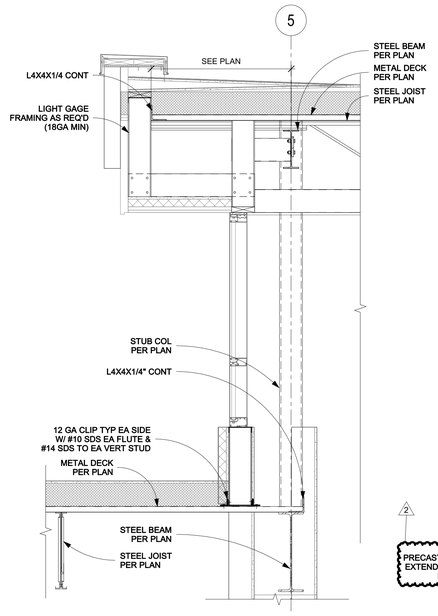
13 S-510 ROOF DECK BRG DETAIL
3/4" = 1'-0"



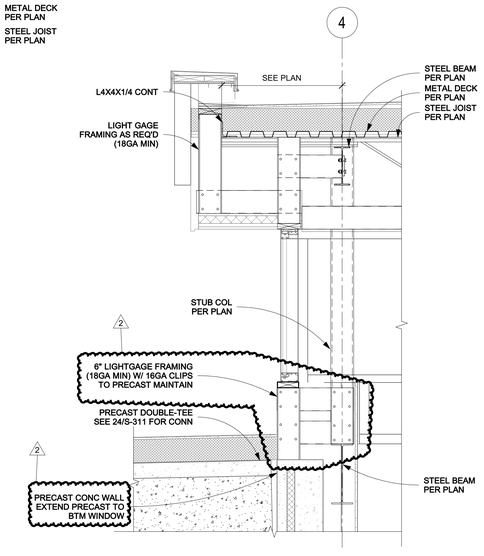
14 S-510 ROOF JOIST BRG DETAIL
3/4" = 1'-0"



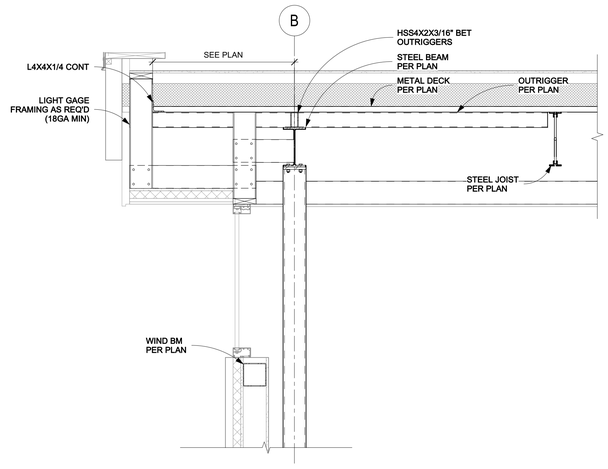
31 S-510 CLERESTORY PLAN EAST
3/4" = 1'-0"



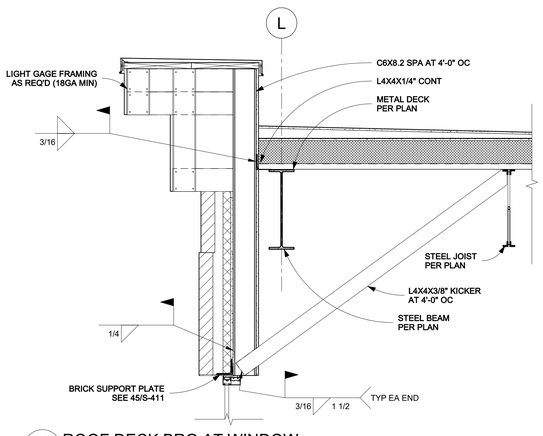
32 S-510 CLERESTORY PLAN NORTH
3/4" = 1'-0"



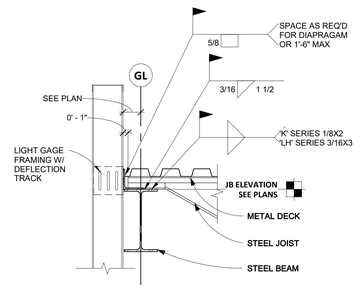
33 S-510 CLERESTORY PLAN SOUTH
3/4" = 1'-0"



34 S-510 CLERESTORY PLAN WEST
3/4" = 1'-0"



43 S-510 ROOF DECK BRG AT WINDOW
3/4" = 1'-0"



44 S-510 TYP JOIST BRG AT LIGHT GAGE
1" = 1'-0"

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MO COA: 2009009344

LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

1	ADDENDUM #1	9/19/24
2	ADDENDUM #2	10/30/24

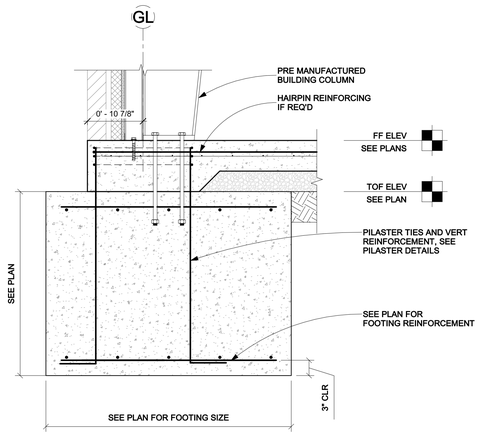
STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005029619
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

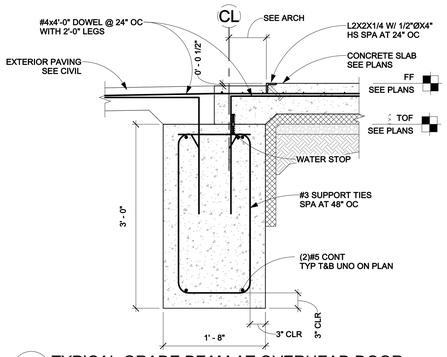
S-510

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

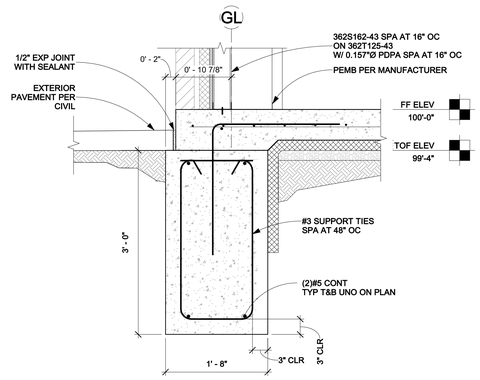
ROOF FRAMING DETAILS



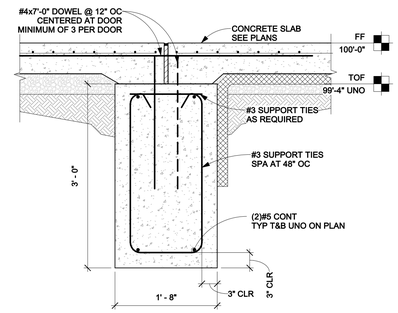
11 S-511 VEHICLE BUILDING PILASTER
1" = 1'-0"



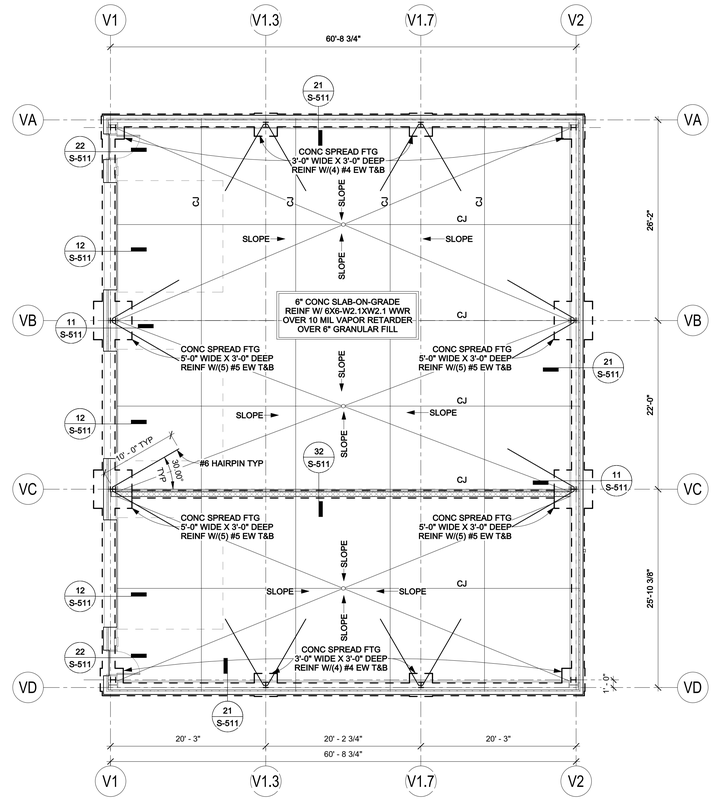
12 S-511 TYPICAL GRADE BEAM AT OVERHEAD DOOR
1" = 1'-0"



21 S-511 TYPICAL FOOTING DETAIL
1" = 1'-0"



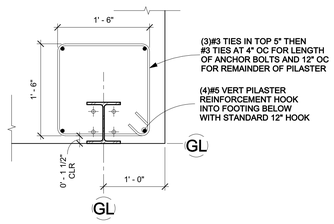
22 S-511 TYP GRADE BEAM AT MAN DOOR
1" = 1'-0"



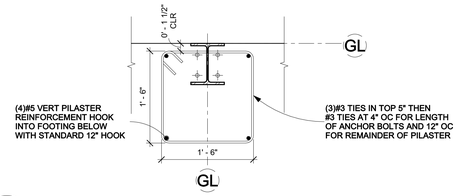
VEHICLE BUILDING FOUNDATION PLAN
1/8" = 1'-0"

NOTE:
CONTRACTOR HAS THE OPTION TO EPOXY DOWELS INTO THICKENED SLAB AS AN ALTERNATIVE TO HOOKED DOWELS. SEE EPOXY EMBEDMENT TABLE.

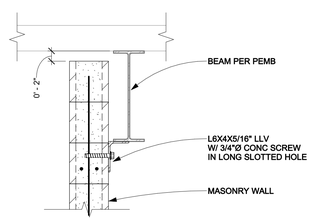
32 S-511 THICKENED SLAB DETAIL
3/4" = 1'-0"



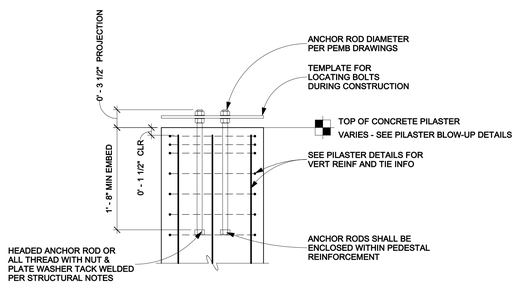
33 S-511 TYPICAL PILASTER AT CORNER DETAIL
1" = 1'-0"



34 S-511 TYPICAL PILASTER DETAIL
1" = 1'-0"



43 S-511 TOP OF MASONRY WALL
1" = 1'-0"



44 S-511 TYPICAL ANCHOR BOLT DETAIL
1" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 2:
CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

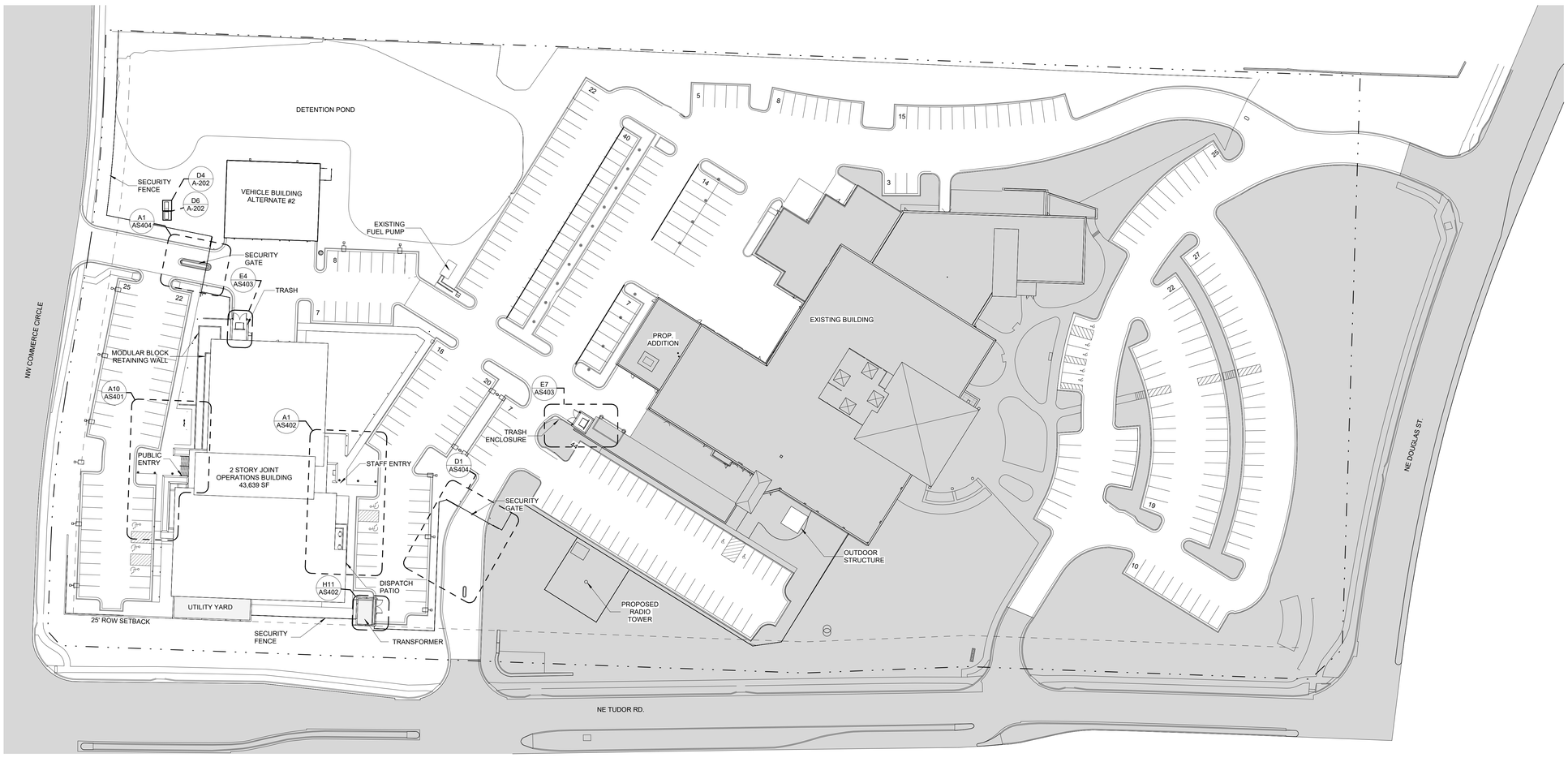


PROFESSIONAL SEAL

S-511

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

VEHICLE BUILDING PLAN AND DETAILS



NORTH

A1 ARCHITECTURAL SITE PLAN
1" = 40'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

SITE LEGEND

- AREA NOT IN SCOPE
- PROPERTY LINE

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

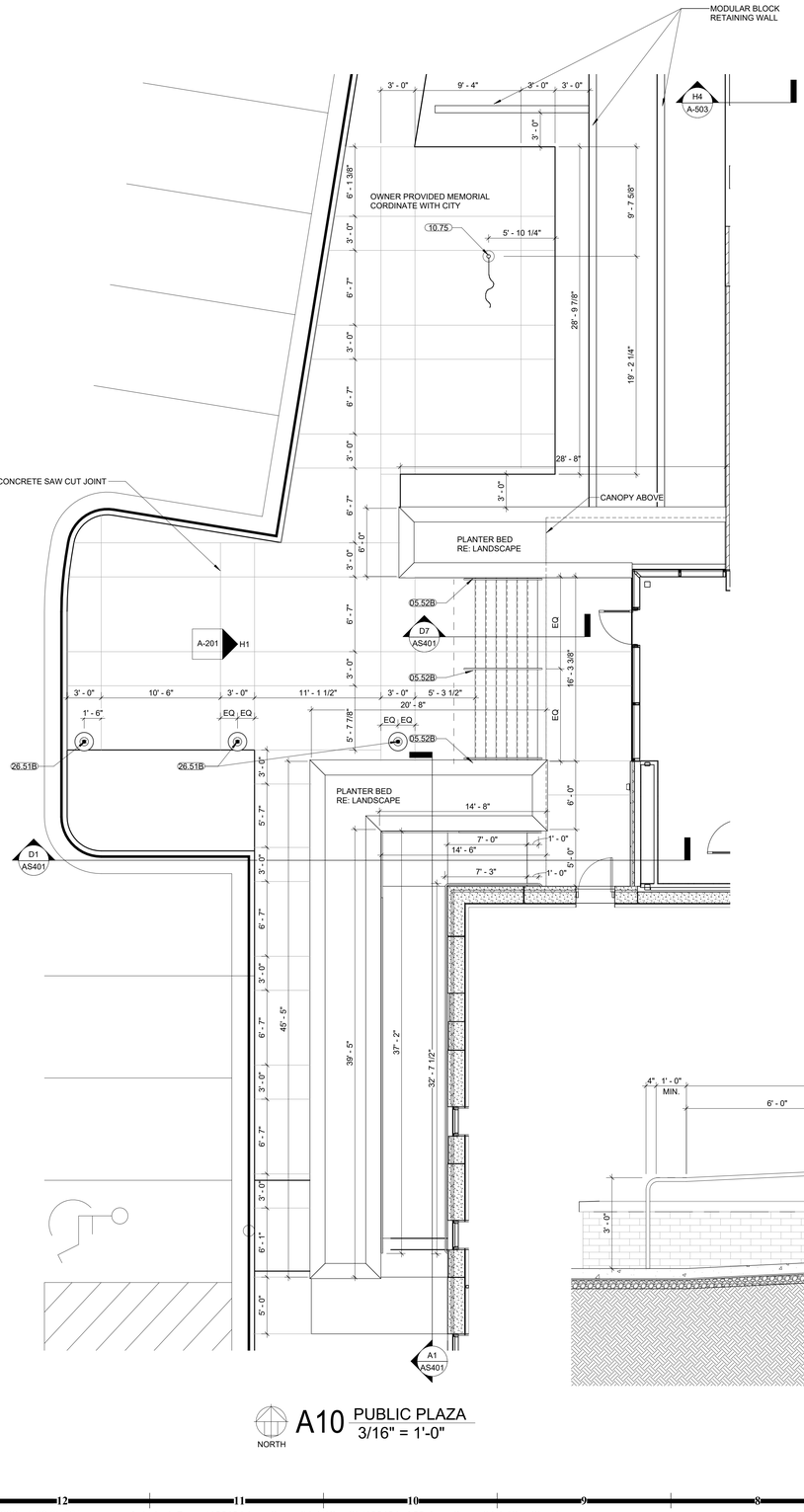
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CHRISTOPHER KRUMREI
NUMBER A-2016011211
11/1/24
ARCHITECT

PROFESSIONAL SEAL

AS101

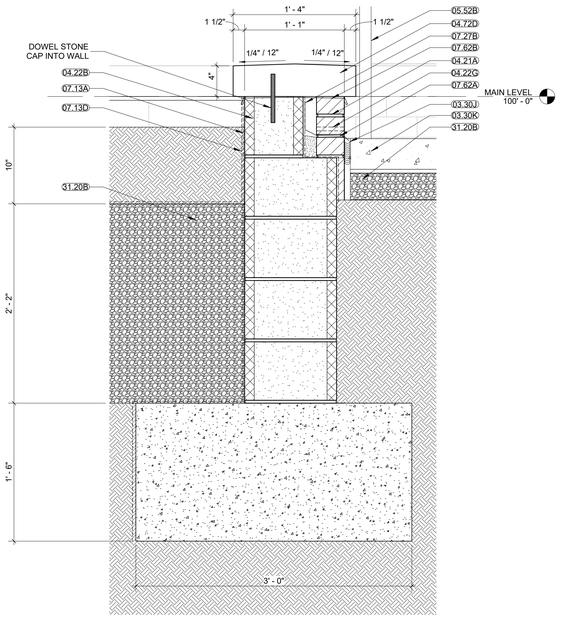
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

SITE PLAN

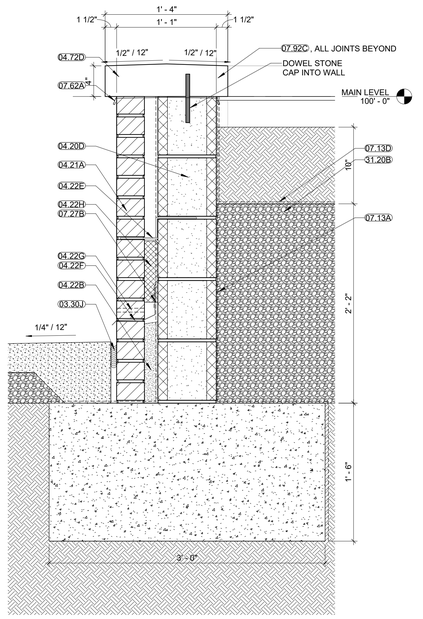


A10 PUBLIC PLAZA
3/16" = 1'-0"

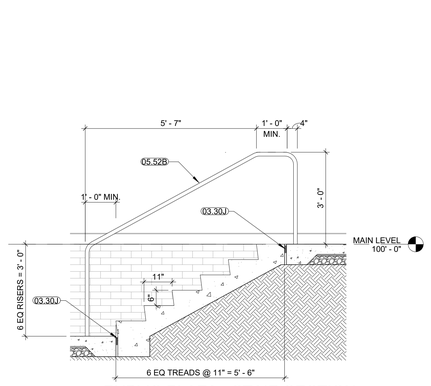
NORTH



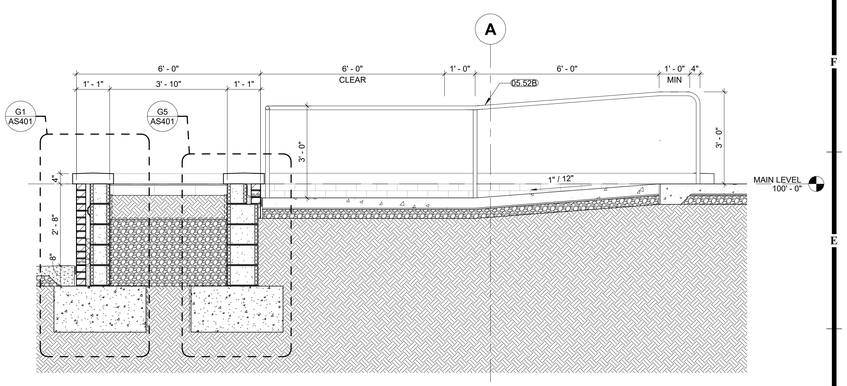
G5 PLANTER SECTION @ RAMP
1 1/2" = 1'-0"



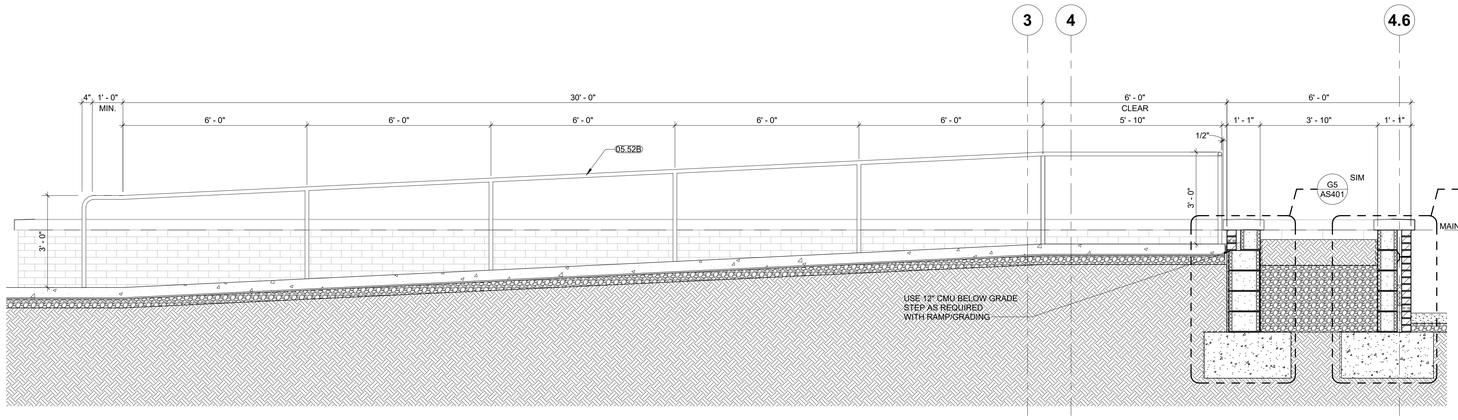
G1 PLANTER SECTION
1 1/2" = 1'-0"



D7 PUBLIC PLAZA - STAIR SECTION
1/2" = 1'-0"



D1 PUBLIC PLAZA - RAMP SECTION
1/2" = 1'-0"



A1 PUBLIC PLAZA - RAMP SECTION
1/2" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
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MATERIAL KEYNOTES

03.30J	1/2-INCH COMPRESSIBLE JOINT FILLER (HOLD DOWN TOP 1/2-INCH - FILL W/ SEALANT.)
03.30K	UNDER-SLAB VAPOR RETARDER
04.20D	CONCRETE MASONRY UNIT (CMU) - 7 5/8 INCH
04.21A	FACE BRICK
04.22B	GROUT SOLID - MASONRY CELLS
04.22E	TIES AND ANCHORS
04.22F	THROUGH-WALL MEMBRANE FLASHING WITH METAL DRIP EDGE
04.22G	WEEP VENTS @ 24-INCH O.C.
04.22H	CAVITY DRAINAGE MATERIAL (MORTAR NET)
04.72D	CAST STONE WALL CAP
05.52B	STAINLESS STEEL PIPE/ TUBE RAILING
07.13A	SELF-ADHEARING SHEET WATERPROOFING MEMBRANE
07.13D	FILTER FABRIC
07.27B	FLUID-APPLIED MEMBRANE AIR BARRIER
07.62A	PREFINISHED SHEET METAL FLASHING
07.62B	PREFINISHED METAL SILL FLASHING
07.92C	BACKER ROD AND SEALANT
10.75	FLAGPOLE
26.51B	EXTERIOR LIGHT FIXTURE RE: ELECTRICAL
31.20B	GRANULAR FILL

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

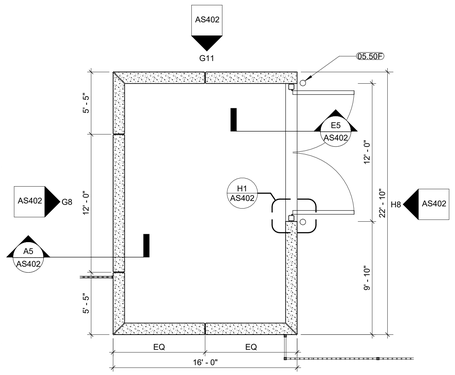
STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016011211
ARCHITECT
11/1/24

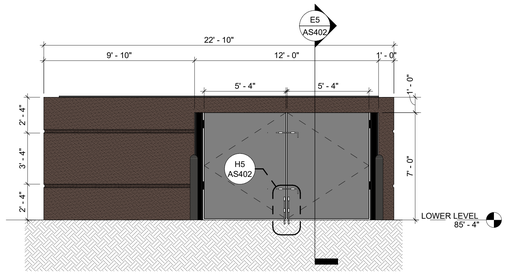
PROFESSIONAL SEAL

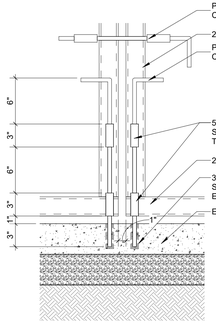
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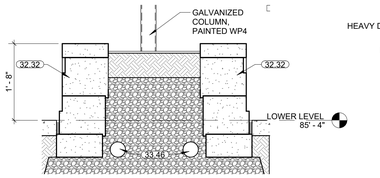
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

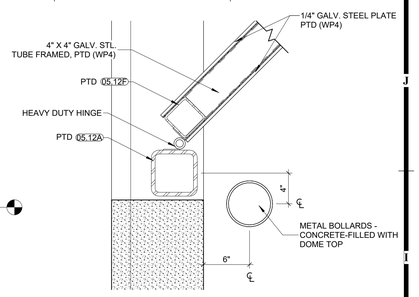
SITE DETAILS



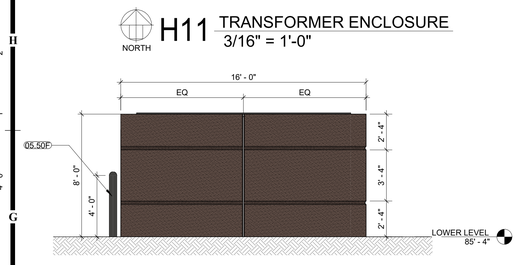








H11 TRANSFORMER ENCLOSURE
3/16" = 1'-0"



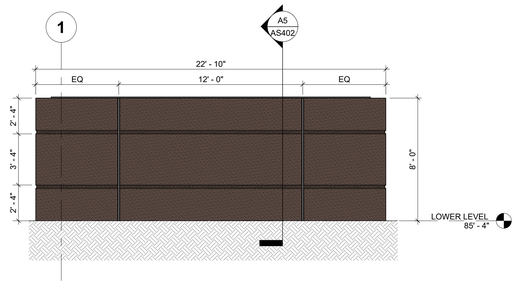
H8 TRANSFORMER ENCLOSURE - EAST
1/4" = 1'-0"

H5 GATE CLOSURE DETAIL @ TRANSFORMER
1 1/2" = 1'-0"

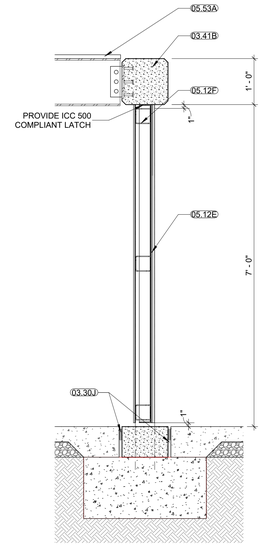
H3 MODULAR BLOCK
3/4" = 1'-0"

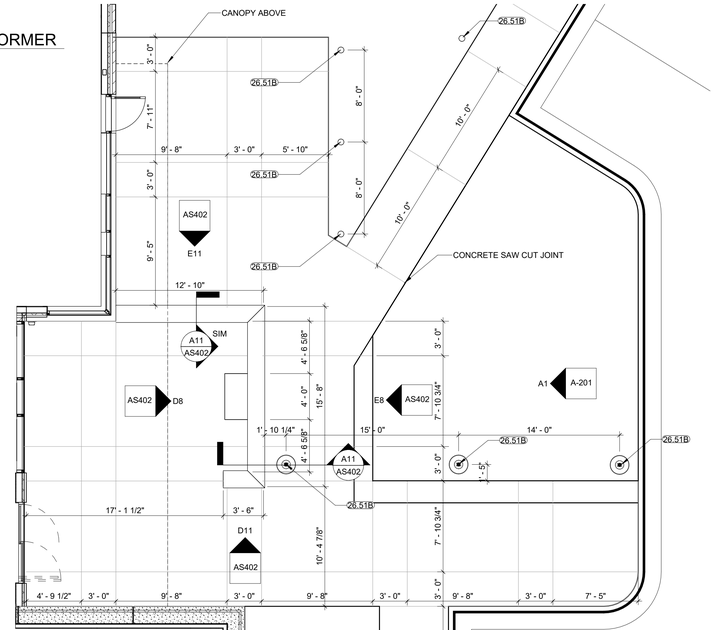
H1 HEAVY DUTY GATE JAMB @ TRANSFORMER
1 1/2" = 1'-0"

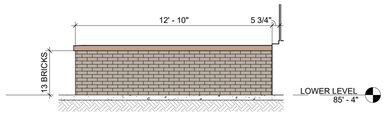
G11 TRANSFORMER ENCLOSURE - NORTH
1/4" = 1'-0"



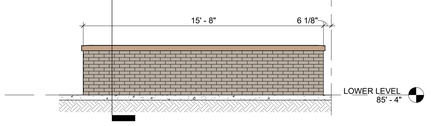
G8 TRANSFORMER ENCLOSURE - WEST
1/4" = 1'-0"



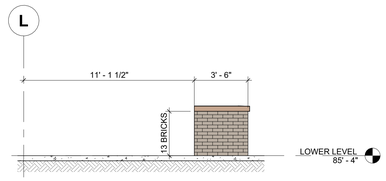




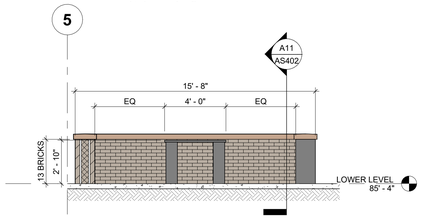
E11 STAFF ENTRY - NORTH
1/4" = 1'-0"



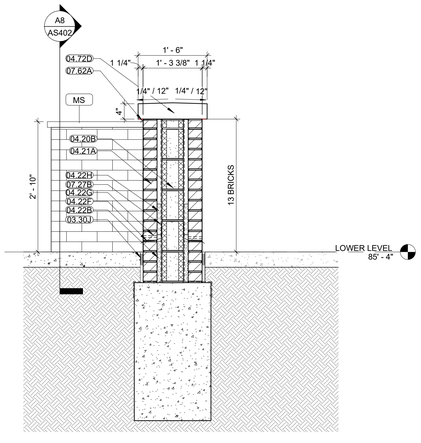
E8 STAFF ENTRY - EAST
1/4" = 1'-0"



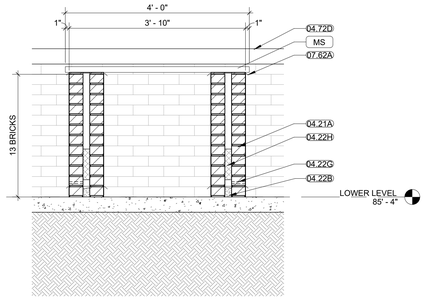
D11 STAFF ENTRY - SOUTH
1/4" = 1'-0"



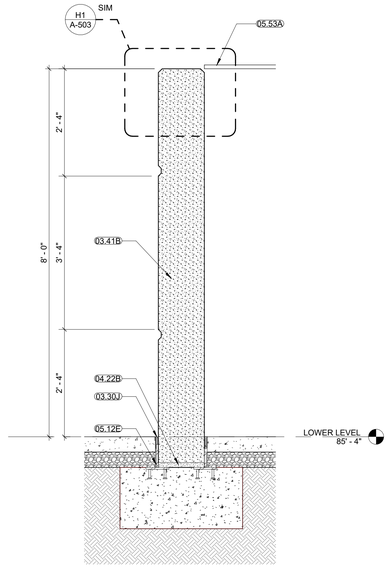
D8 STAFF ENTRY - WEST
1/4" = 1'-0"



A11 STAFF ENTRY - SECTION
3/4" = 1'-0"



A8 STAFF ENTRY - COUNTERTOP SECTION
3/4" = 1'-0"



A5 TRANSFORMER ENCLOSURE - SECTION
3/4" = 1'-0"

A1 STAFF PLAZA
3/16" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

GENERAL NOTES - EXTERIOR ELEVATIONS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
3. RE: THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
4. ALL EXPOSED STEEL INCLUDING COLUMNS AND LINTELS TO BE PAINTED WP4
5. ALL SEALANT JOINTS TO MATCH ADJACENT FINISH, TYP.
6. ALL EXTERIOR DOORS TO BE PAINTED WP4.
7. METAL COPINGS TO MATCH METAL PANEL.

GENERAL NOTES – EXTERIOR WALL SECTIONS/ DETAILS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FLOOR PLANS, ROOF PLAN AND ELEVATIONS FOR SECTION CUT LOCATIONS.
3. ALL WINDOW AND DOOR OPENING DIMENSIONS ARE ROUGH OPENING DIMENSIONS, UNLESS NOTED OTHERWISE.
4. DIMENSIONS SHOWN ON THE WALL SECTIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
5. PAINT ALL EXPOSED STEEL, INCLUDING STEEL LINTELS, ETC. (TYP.)

MATERIAL KEYNOTES

03.30J	1/2-INCH COMPRESSIBLE JOINT FILLER (HOLD DOWN TOP 1/2-INCH - FILL W/ SEALANT.)
03.41B	PRECAST CONCRETE WALL
04.20B	CONCRETE MASONRY UNIT (CMU) - 3 5/8 INCH
04.21A	FACE BRICK
04.22B	GROUT SOLID - MASONRY CELLS
04.22F	THROUGH-WALL MEMBRANE FLASHING WITH METAL DRIP EDGE
04.22G	WEEP VENTS @ 24-INCH O.C.
04.22H	CAVITY DRAINAGE MATERIAL (MORTAR NET)
04.72D	CAST STONE WALL CAP
05.12A	STEEL COLUMN
05.12E	STEEL PLATE
05.12F	STEEL TUBE
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
05.53A	METAL GRATING
07.27B	FLUID-APPLIED MEMBRANE AIR BARRIER
07.62A	PREFINISHED SHEET METAL FLASHING
26.51B	EXTERIOR LIGHT FIXTURE RE: ELECTRICAL
32.32	SEGMENTAL RETAINING WALL
33.46	FOUNDATION DRAINAGE

EXTERIOR ELEVATION MATERIALS

- BRICK - RUNNING BOND - ENDICOTT- COLOR MEDIUM IRONSPOT 46 VELOUR
- BRICK - RUNNING BOND - INTERSTATE BRICK - COLOR ASH
- PRECAST PANEL, COLOR TAN, ACID ETCH FINISH (USE WHITE PORTALND CEMENT)
- PRECAST PANEL, COLOR MEDIUM BROWN, HEAVY RETARDANT FINISH
- PRECAST PANEL WITH COLOR TREATMENT, LIGHT SANDBLAST FINISH, COLOR NWW004 CHARCOAL
- IGU - BOD: VIRACON VRE26-38.
- COMPOSITE METAL PANEL, COLOR SUNSHINE GRAY
- MODULAR BLOCK RETAINING WALL

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4622 PENNSYLVANIA AVENUE
SUITE 1400
KANSAS CITY, MO 64112
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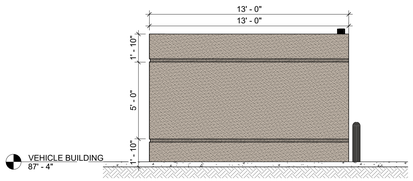
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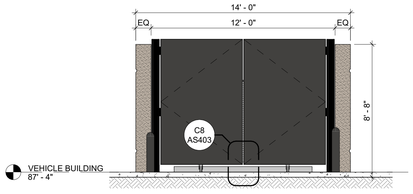
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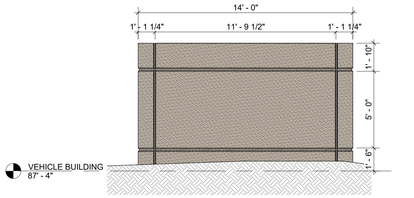
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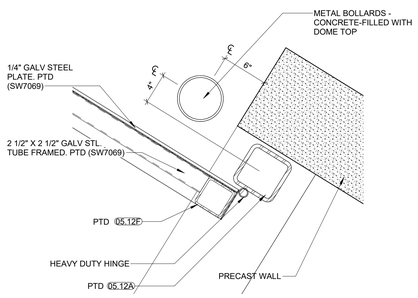
J10 TRASH ENCLOSURE @ POLICE BUILDING - SOUTH
1/4" = 1'-0"



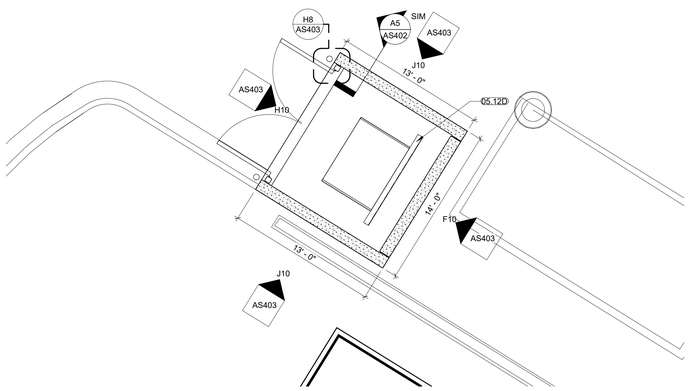
H10 TRASH ENSCLOSURE @ POLICE BUILDING - EAST
1/4" = 1'-0"



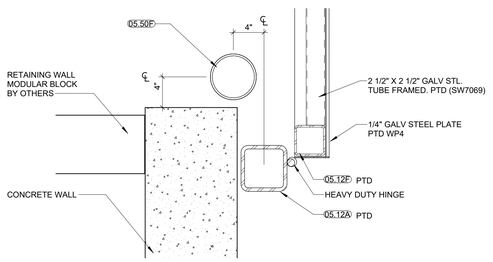
F10 TRASH ENCLOSURE @ POLICE BUILDING - WEST
1/4" = 1'-0"



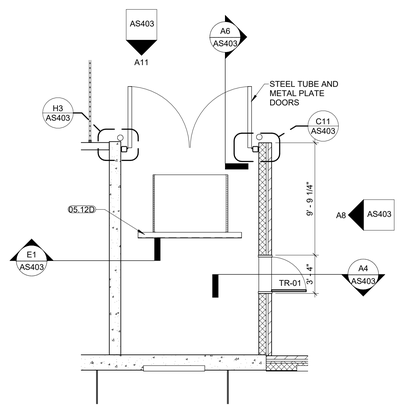
H8 HEAVY DUTY GATE JAMB - PRECAST
1 1/2" = 1'-0"



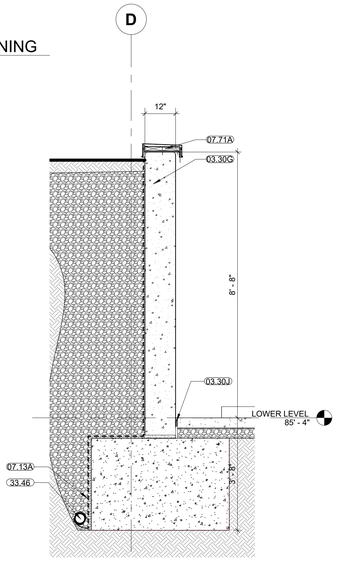
E7 TRASH ENCLOSURE @ POLICE ADDITION
NORTH
3/16" = 1'-0"



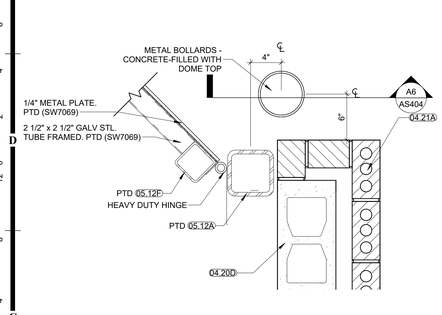
H3 HEAVY DUTY GATE JAMB - RETAINING
1 1/2" = 1'-0"



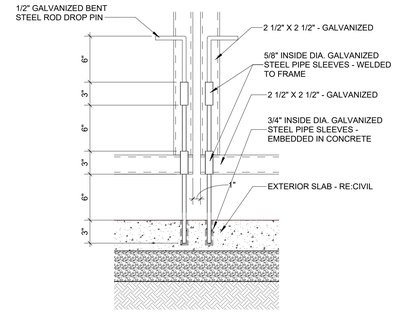
E4 TRASH ENCLOSURE
NORTH
3/16" = 1'-0"



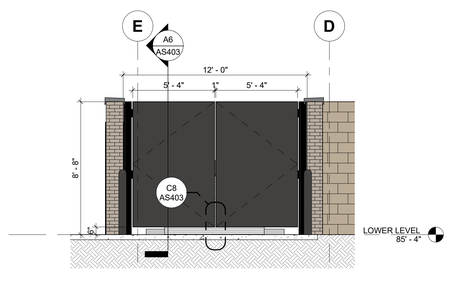
E1 CONCRETE WALL SECTION
1/2" = 1'-0"



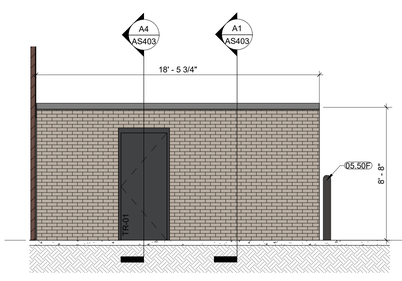
C11 HEAVY DUTY GATE JAMB - CMU
1 1/2" = 1'-0"



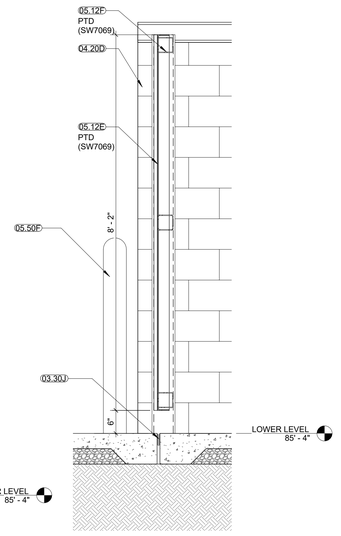
C8 GATE CLOSURE DETAIL
1 1/2" = 1'-0"



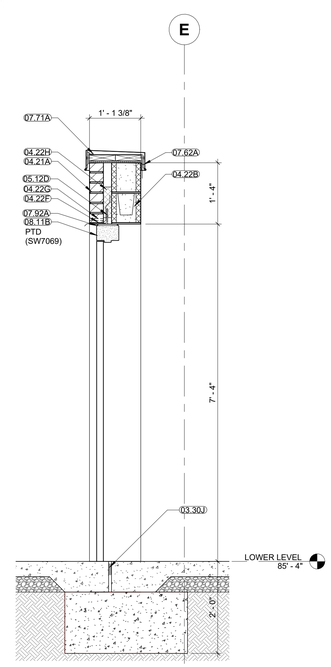
A11 TRASH ENCLOSURE - NORTH
1/4" = 1'-0"



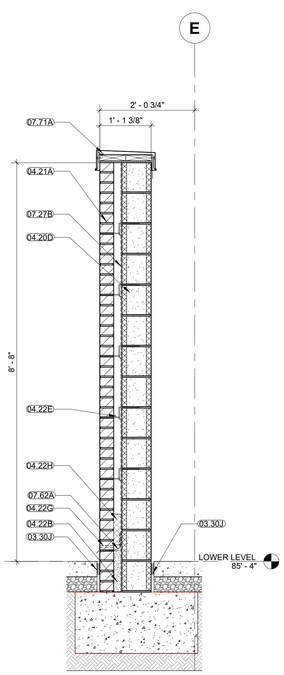
A8 TRASH ENCLOSURE - EAST
1/4" = 1'-0"



A6 TRASH ENCLOSURE - SECTION
3/4" = 1'-0"



A4 TRASH ENCLOSURE - SECTION
3/4" = 1'-0"



A1 BRICK WALL SECTION
3/4" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

GENERAL NOTES - EXTERIOR ELEVATIONS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
3. RE: THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
4. ALL EXPOSED STEEL INCLUDING COLUMNS AND LINTELS TO BE PAINTED WP4
5. ALL SEALANT JOINTS TO MATCH ADJACENT FINISH, TYP.
6. ALL EXTERIOR DOORS TO BE PAINTED WP4.
7. METAL COPINGS TO MATCH METAL PANEL.

GENERAL NOTES – EXTERIOR WALL SECTIONS/ DETAILS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FLOOR PLANS, ROOF PLAN AND ELEVATIONS FOR SECTION CUT LOCATIONS.
3. ALL WINDOW AND DOOR OPENING DIMENSIONS ARE ROUGH OPENING DIMENSIONS, UNLESS NOTED OTHERWISE.
4. DIMENSIONS SHOWN ON THE WALL SECTIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
5. PAINT ALL EXPOSED STEEL, INCLUDING STEEL LINTELS, ETC. (TYP.)

MATERIAL KEYNOTES

03.30G	CONCRETE WALL
03.30J	1/2-INCH COMPRESSIBLE JOINT FILLER (HOLD DOWN TOP 1/2-INCH - FILL W/ SEALANT.)
04.20D	CONCRETE MASONRY UNIT (CMU) - 7 5/8 INCH
04.21A	FACE BRICK
04.22B	GROUT SOLID - MASONRY CELLS
04.22E	TIES AND ANCHORS
04.22F	THROUGH-WALL MEMBRANE FLASHING WITH METAL DRIP EDGE
04.22G	WEEP VENTS @ 24-INCH O.C.
04.22H	CAVITY DRAINAGE MATERIAL (MORTAR NET)
05.12A	STEEL COLUMN
05.12D	STEEL ANGLE
05.12E	STEEL PLATE
05.12F	STEEL TUBE
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
07.13A	SELF-ADHEARING SHEET WATERPROOFING MEMBRANE
07.27B	FLUID-APPLIED MEMBRANE AIR BARRIER
07.62A	PREFINISHED SHEET METAL FLASHING
07.71A	PREFINISHED METAL COPING & CONT. CLEAT
07.92A	JOINT SEALANT
08.11B	HOLLOW METAL FRAME
33.46	FOUNDATION DRAINAGE

EXTERIOR ELEVATION MATERIALS

- BRICK - RUNNING BOND - ENDICOTT- COLOR MEDIUM IRONSPOT 46 VELOUR
- BRICK - RUNNING BOND - INTERSTATE BRICK - COLOR ASH
- PRECAST PANEL, COLOR TAN, ACID ETCH FINISH (USE WHITE PORTALND CEMENT)
- PRECAST PANEL, COLOR MEDIUM BROWN, HEAVY RETARDANT FINISH
- PRECAST PANEL WITH COLOR TREATMENT, LIGHT SANDBLAST FINISH, COLOR NWW004 CHARCOAL
- IGU - BOD: VIRACON VRE26-38.
- COMPOSITE METAL PANEL, COLOR SUNSHINE GRAY
- MODULAR BLOCK RETAINING WALL

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SUITE 1400
KANSAS CITY, MO 64112
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PACKAGE 2: CONSTRUCTION SET

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CHRISTOPHER KRUMREI
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11/1/24

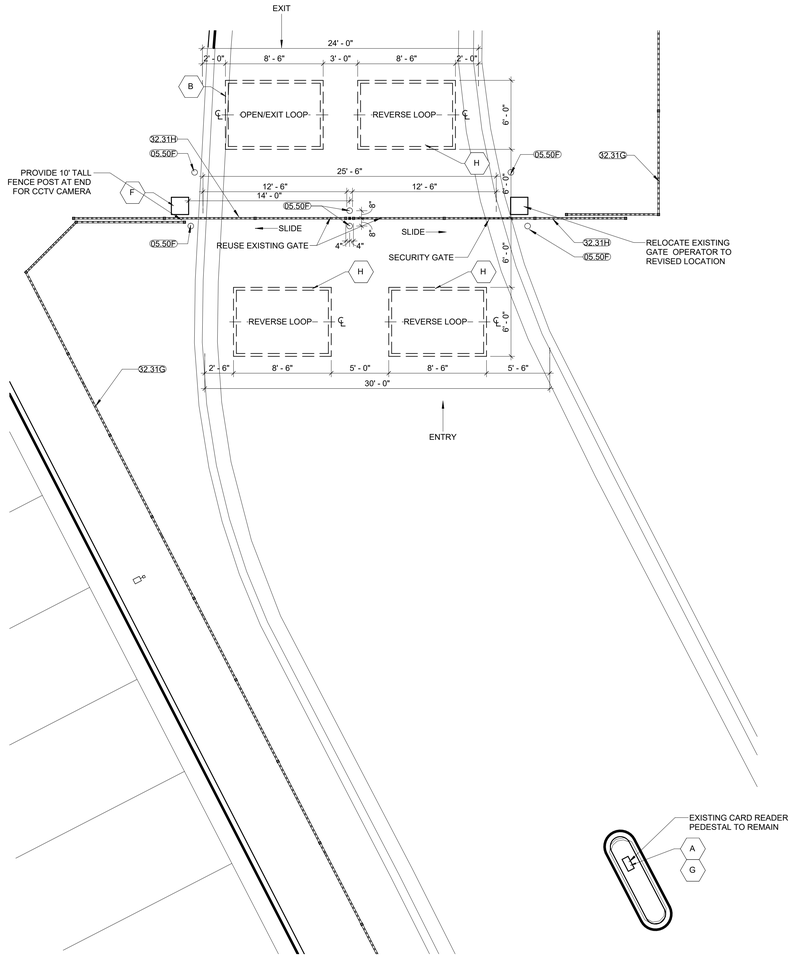
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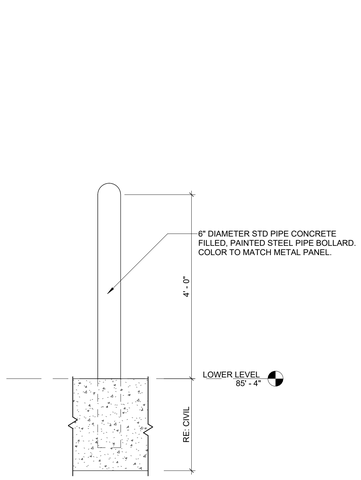
ISSUE DATE: NOVEMBER 1, 2024
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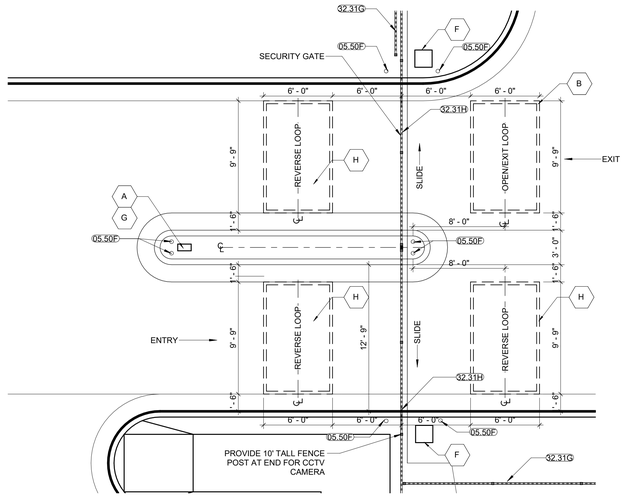
PARKING EQUIPMENT SCHEDULE1					
TYPE	MANUFACTURER	DESCRIPTION	MODEL	FINISH	COMMENT
A	AIPHONE	ENTRY TERMINAL	IS-IPDV	BLACK	REF. MEP
B	HYSECURITY	OPEN/EXIT LOOP	HY5B LOOP DETECTOR	TBD	COORDINATE W/ CONCRETE POUR
F	HYSECURITY	GATE OPERATOR	SLIDESMARTDC HD25	BLACK	COORDINATE W/ OWNER
G	PRO PEDESTAL	PEDESTAL POLE	REF. MEP	BLACK	
H	HYSECURITY	REVERSE LOOP	HY5B LOOP DETECTOR	TBD	COORDINATE W/ CONCRETE POUR



NORTH **D1** SITE GATE @ TUDOR ROAD
3/16" = 1'-0"



A6 TYP. BOLLARD DETAIL
3/4" = 1'-0"



NORTH **A1** SITE GATE @ NW COMMERCE CIRCLE
3/16" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

MATERIAL KEYNOTES	
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
32.31G	DECORATIVE METAL FENCING
32.31H	DECORATIVE METAL GATE

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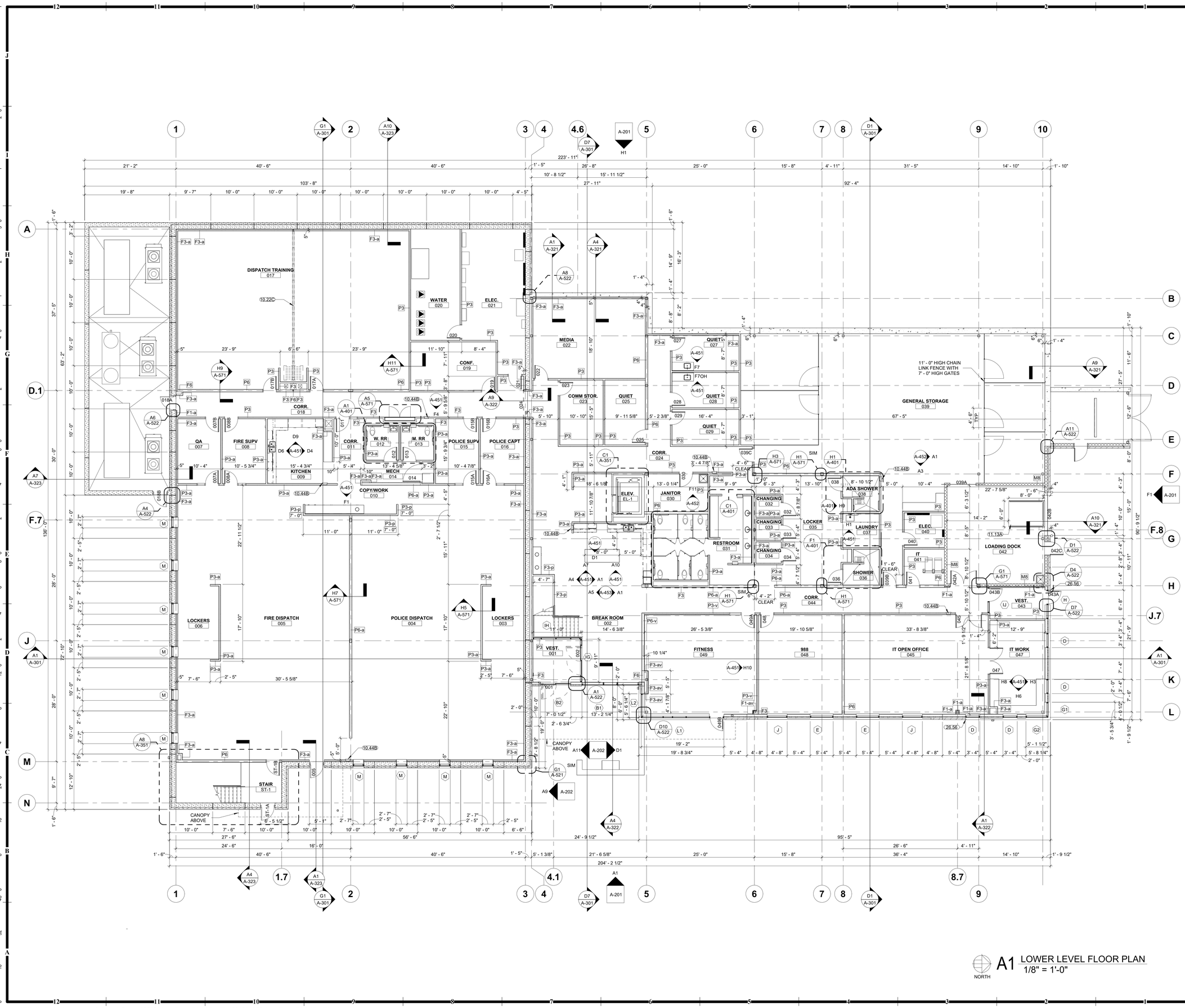
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ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

SITE DETAILS



A1 LOWER LEVEL FLOOR PLAN
1/8" = 1'-0"

NORTH

GENERAL NOTES - FLOOR PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE.
5. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS.
6. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO OUTSIDE FACE OF DOOR FRAME - HINGE SIDE, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
7. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
8. ALL PUBLIC SPACES: THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
9. RE: FINISH LEGEND, AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
10. ALL EXPOSED STEEL INCLUDING COLUMNS TO BE PAINTED WP4

MATERIAL KEYNOTES

10.22C	OPERABLE PARTITION
10.44B	SEMI-RECESSED FIRE EXTINGUISHER CABINET
11.13A	LOADING DOCK LIFT
26.56	EXTERIOR LIGHT FIXTURE

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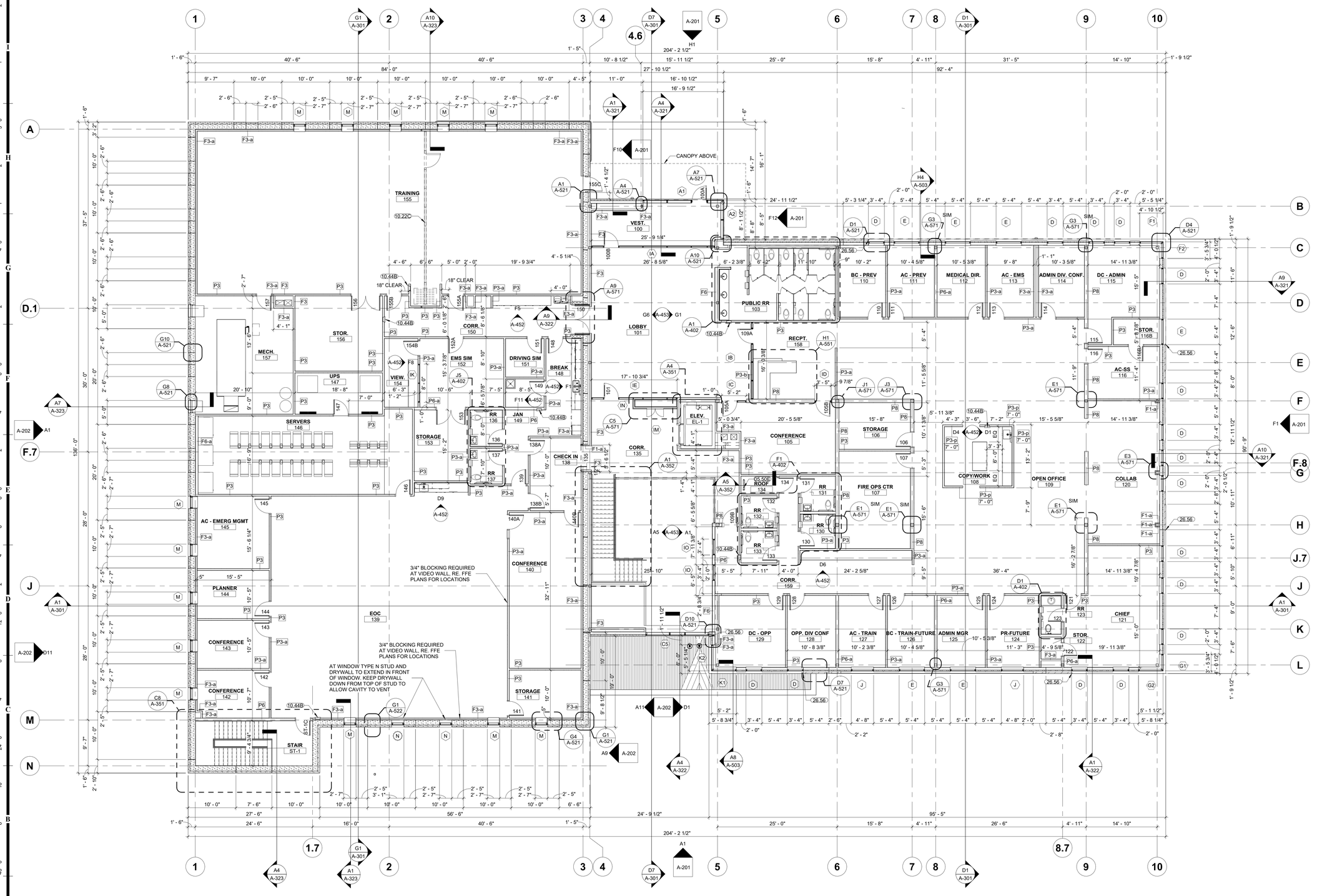
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PROFESSIONAL SEAL

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ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

LOWER LEVEL - FLOOR PLAN



A1 MAIN LEVEL FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES - FLOOR PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE.
5. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS.
6. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO OUTSIDE FACE OF DOOR FRAME - HINGE SIDE, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
7. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
8. ALL PUBLIC SPACES: THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
9. RE: FINISH LEGEND, AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
10. ALL EXPOSED STEEL INCLUDING COLUMNS TO BE PAINTED WP4

MATERIAL KEYNOTES

05.50E	METAL LADDERS
10.22C	OPERABLE PARTITION
10.44B	SEMI-RECESSED FIRE EXTINGUISHER CABINET
26.56	EXTERIOR LIGHT FIXTURE

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

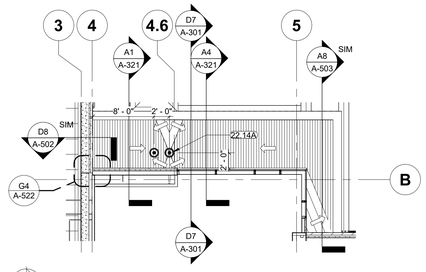
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CHRISTOPHER KRUMREI
NUMBER A-2016011211
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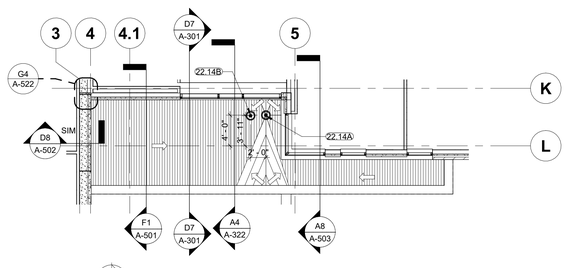
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ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

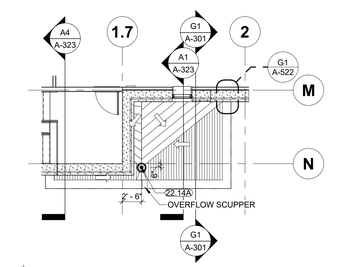
MAIN LEVEL - FLOOR PLAN



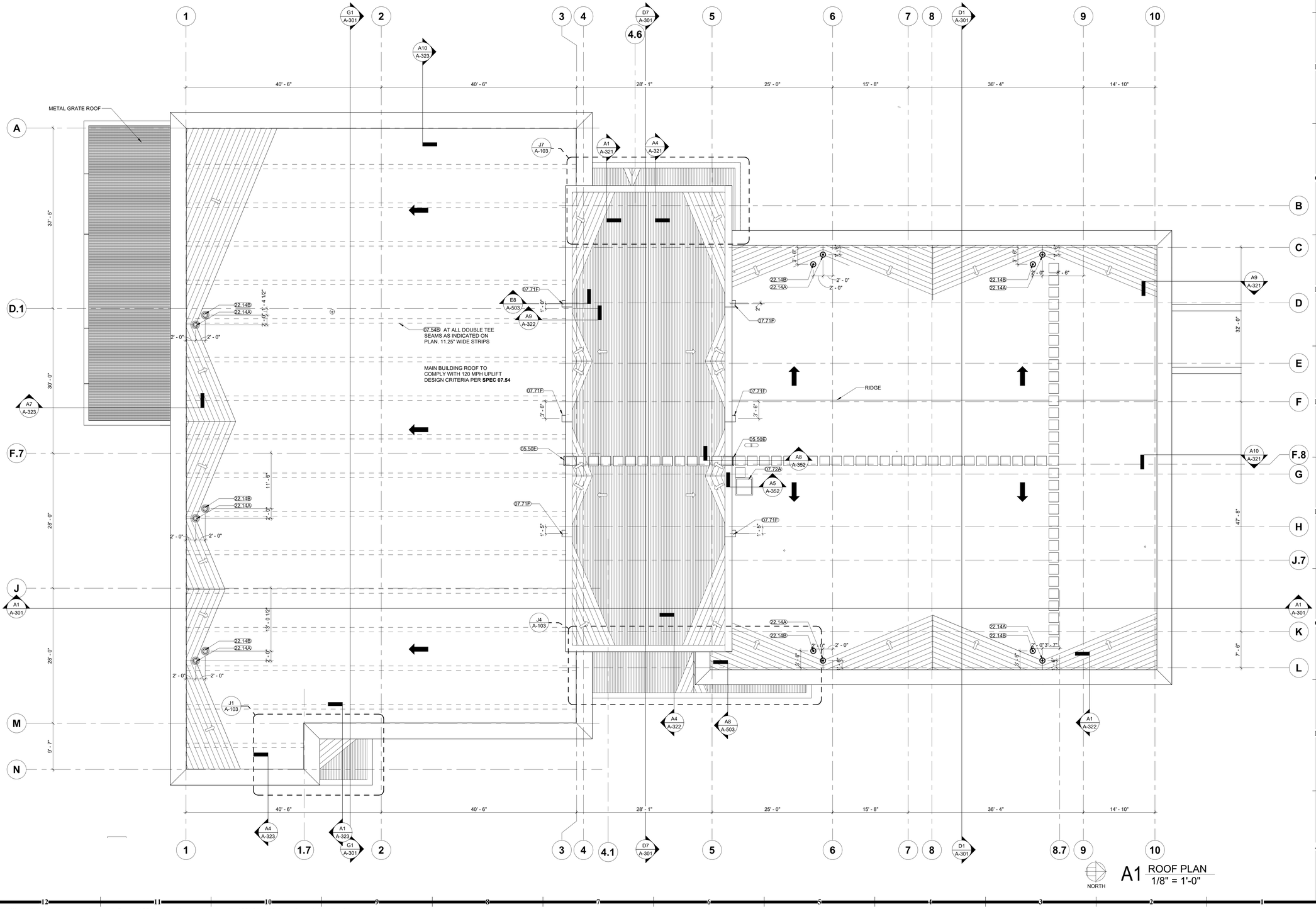
NORTH J7 ROOF PLAN - PUBLIC ENTRY CANOPY
1/8" = 1'-0"



NORTH J4 ROOF PLAN - STAFF ENTRY CANOPY
1/8" = 1'-0"



NORTH J1 ROOF PLAN - DISPATCH CANOPY
1/8" = 1'-0"



NORTH A1 ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES - ROOF PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE ROOF PLAN ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
3. PROVIDE 1/2" / FT. TAPERED INSULATION AT ALL ROOF CURBS AND AT EQUIPMENT WHICH EXCEEDS 18 INCHES IN WIDTH.

ROOF PLAN LEGEND

- SLOPED STRUCTURE
- TAPERED INSULATION 1/4" PER FOOT
- TAPERED INSULATION 1/2" PER FOOT
- METAL GRATE ROOF
- ROOF WALKING PAD
- PRE-MANUFACTURED METAL BUILDING ROOF

MATERIAL KEYNOTES

05.50E	METAL LADDERS
07.54B	VAPOR BARRIER MEMBRANE
07.71F	PREFINISHED METAL SCUPPER BOX
07.72A	ROOF HATCH 36" X 36"
22.14A	ROOF DRAIN
22.14B	OVERFLOW ROOF DRAIN

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SUITE 1400
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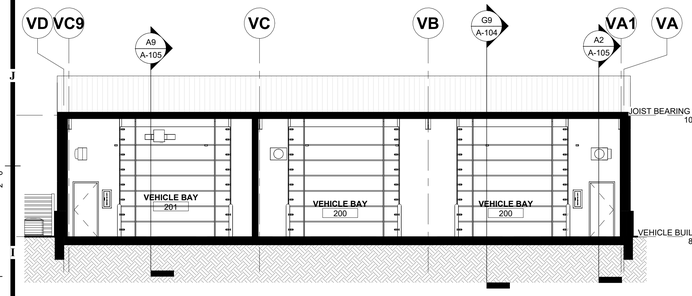
STATE OF MISSOURI
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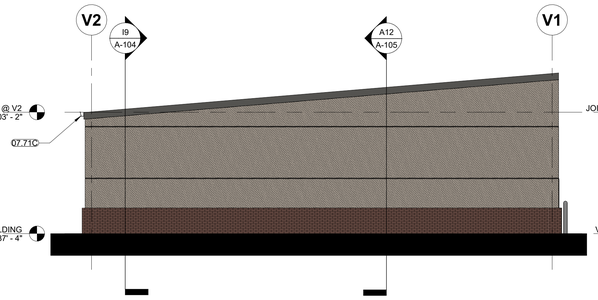
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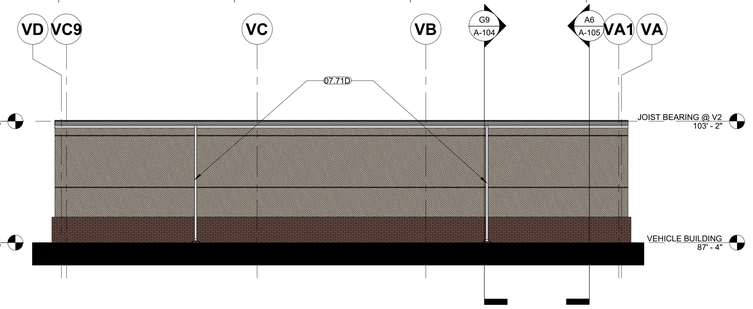
ROOF PLAN



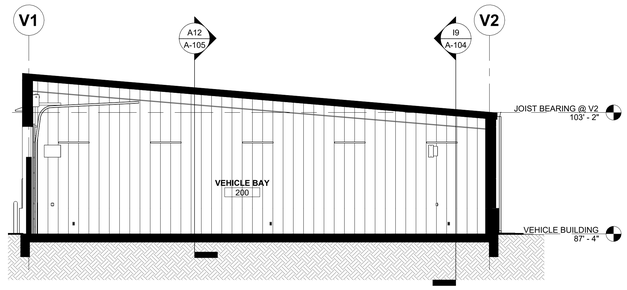
I9 VEHICLE BUILDING LONGITUDINAL SECTION
1/8" = 1'-0"



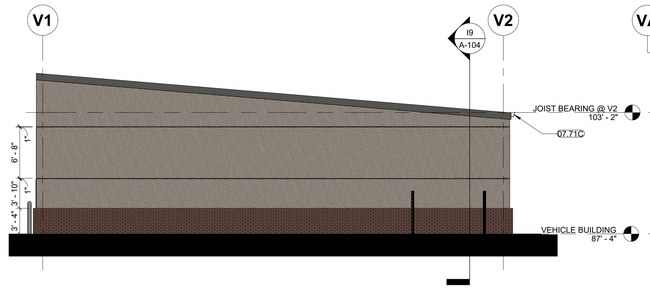
I6 WEST ELEVATION - VEHICLE
1/8" = 1'-0"



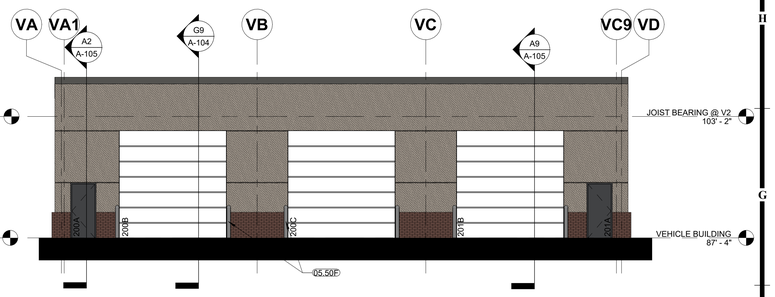
I1 NORTH ELEVATION - VEHICLE
1/8" = 1'-0"



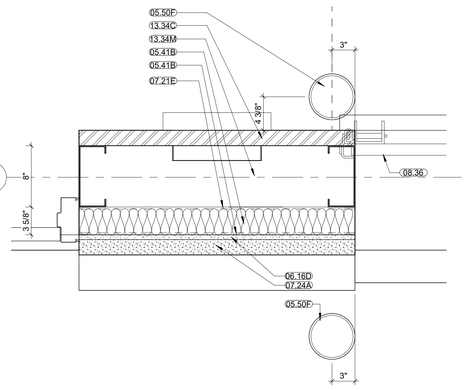
G9 VEHICLE BUILDING TRANSVERSE SECTION
1/8" = 1'-0"



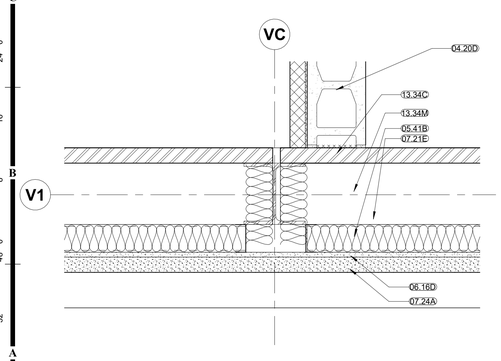
G6 EAST ELEVATION - VEHICLE
1/8" = 1'-0"



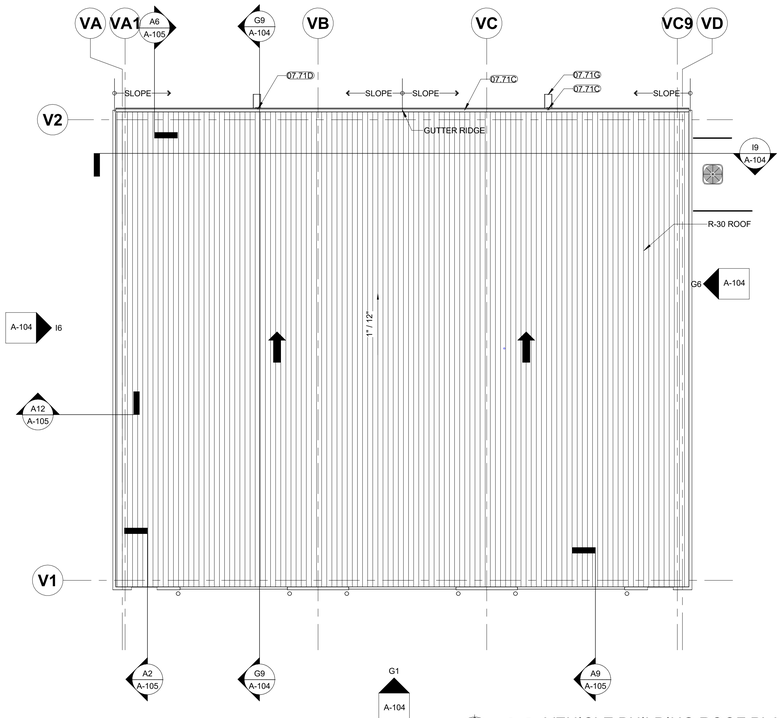
G1 SOUTH ELEVATION - VEHICLE
1/8" = 1'-0"



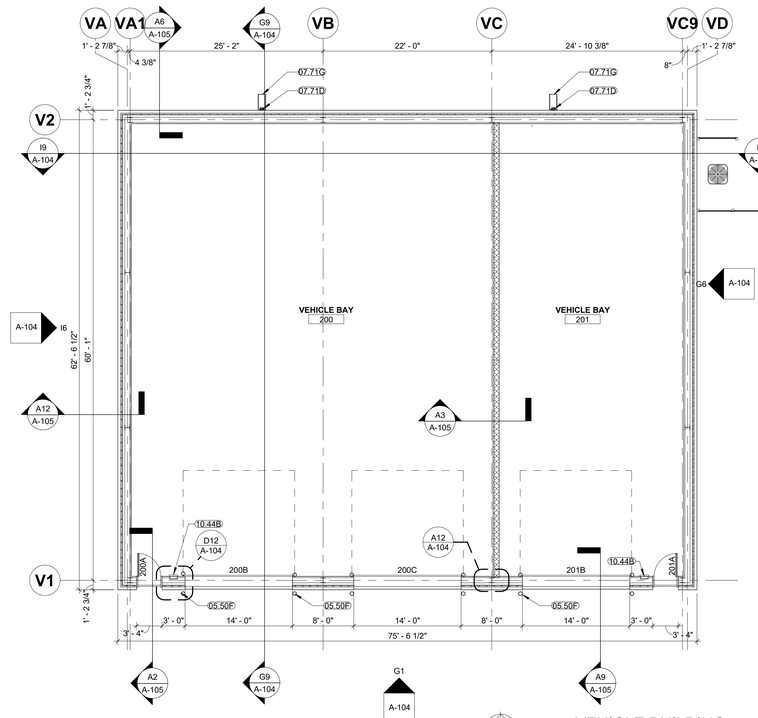
D12 O.H. DOOR JAMB
1 1/2" = 1'-0"



A12 WALL CORNER DETAIL @ BEAM
1 1/2" = 1'-0"



A6 VEHICLE BUILDING ROOF PLAN
1/8" = 1'-0"
NORTH



A1 VEHICLE BUILDING
1/8" = 1'-0"
NORTH

GENERAL NOTES - FLOOR PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE.
5. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS.
6. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO OUTSIDE FACE OF DOOR FRAME - HINGE SIDE, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
7. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
8. ALL PUBLIC SPACES: THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
9. RE: FINISH LEGEND, AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
10. ALL EXPOSED STEEL INCLUDING COLUMNS TO BE PAINTED WP4

GENERAL NOTES - ROOF PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE
2. DIMENSIONS SHOWN ON THE ROOF PLAN ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
3. PROVIDE 1/2" / FT. TAPERED INSULATION AT ALL ROOF CURBS AND AT EQUIPMENT WHICH EXCEEDS 18 INCHES IN WIDTH.

ROOF PLAN LEGEND

- SLOPED STRUCTURE
- TAPERED INSULATION 1/4" PER FOOT
- TAPERED INSULATION 1/2" PER FOOT
- METAL GRATE ROOF
- ROOF WALKING PAD
- PRE-MANUFACTURED METAL BUILDING ROOF

VEHICLE BAY DOOR SCHEDULE

DOOR #	ROOM: NAME	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	AAOS Project HW Set	HEAD	JAMB	REMARKS
200A	VEHICLE BAY	3' - 0"	7' - 0"	ST	F	HM	F1		8.2 ALT 2	xx / A-522	A6 / A-522	
200B	VEHICLE BAY	14' - 0"	14' - 0"	ST	CD2	ST	CD1		1.0	D9/A1.16	G1/A1.16	
200C	VEHICLE BAY	14' - 0"	14' - 0"	ST	CD2	ST	CD1		1.0	D9/A1.16	G1/A1.16	
201A	VEHICLE BAY	3' - 0"	7' - 0"	ST	F	HM	F1		8.2 ALT 2	xx / A-522	A6 / A-522	
201B	VEHICLE BAY	14' - 0"	14' - 0"	ST	CD2	ST	CD1		1.0	D9/A1.16	G1/A1.16	

MATERIAL KEYNOTES

04.20D	CONCRETE MASONRY UNIT (CMU) - 7 5/8 INCH
05.41B	EXTERIOR NON-LOAD-BEARING MTL. C-STUDS - 3 5/8-INCH - RE: STRUCT. FOR SPACING
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
06.16D	EXTERIOR GLASS-MAT GYPSUM WALL SHEATHING W/ TAPED AND SEALED SEAMS
07.21E	3-1/2-INCH THERMAL BATT INSULATION
07.24A	WATER DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM.(EIFS)
07.71C	PREFINISHED METAL GUTTER
07.71D	PREFINISHED METAL DOWNSPOUT
07.71G	SPLASH PAN
08.36	SECTIONAL DOOR
10.44B	SEMI-RECESSED FIRE EXTINGUISHER CABINET
13.34C	METAL BUILDING SYSTEMS - WALL PANEL
13.34M	METAL BUILDING SYSTEMS - METAL GIRT

EXTERIOR ELEVATION MATERIALS

- BRICK - RUNNING BOND - EDICOTT- COLOR MEDIUM IRONSPOT 46 VELOUR
- EIFS - SANDPEBBLE FINISH COLOR SW7532 URBAN PUTTY

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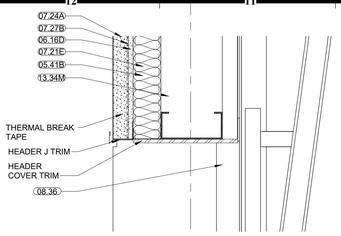
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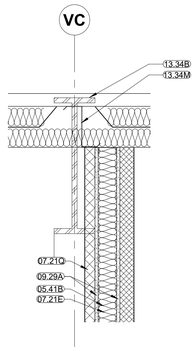
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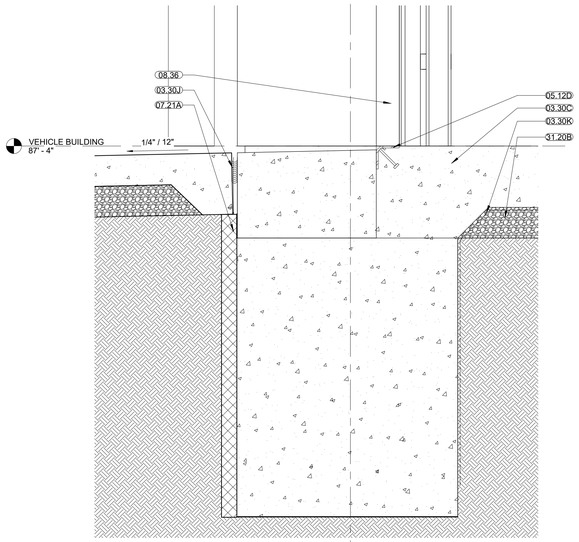
ALTERNATE #2 - VEHICLE BUILDING



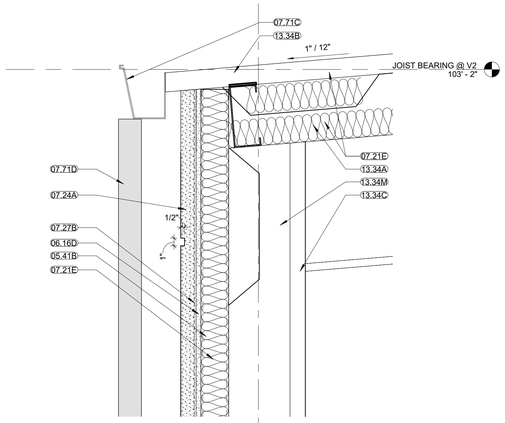
J11 O.H. DOOR HEAD
1 1/2" = 1'-0"



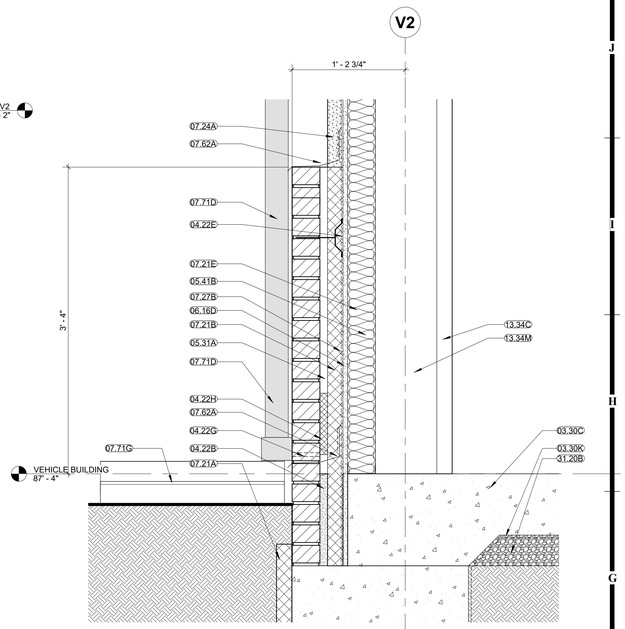
G11 CMU PARTITION @ BEAM
1" = 1'-0"



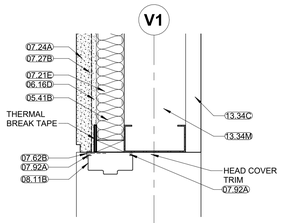
J7 O.H. DOOR SILL
1 1/2" = 1'-0"



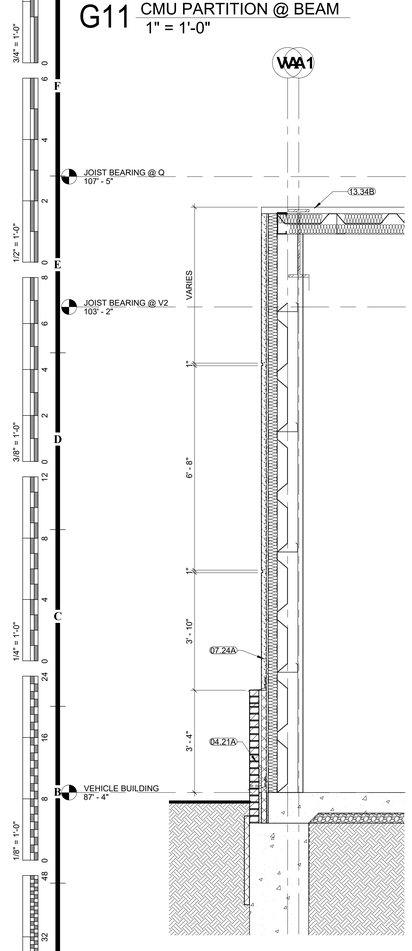
J5 ROO DETAIL @ GUTTER
1 1/2" = 1'-0"



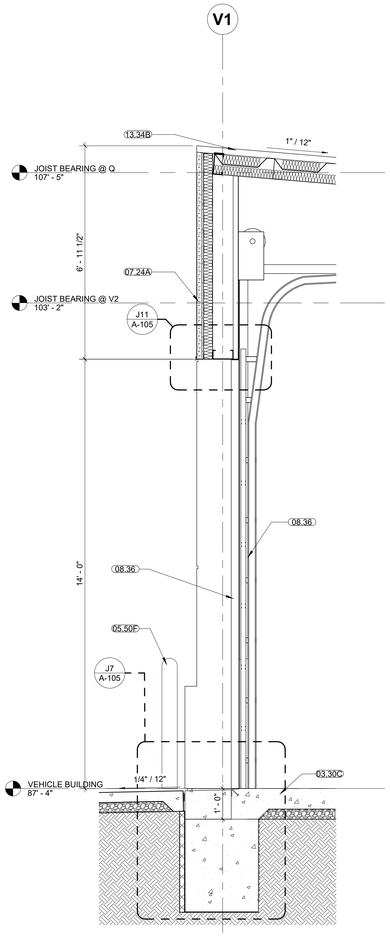
J2 LEDGE DETAIL
1 1/2" = 1'-0"



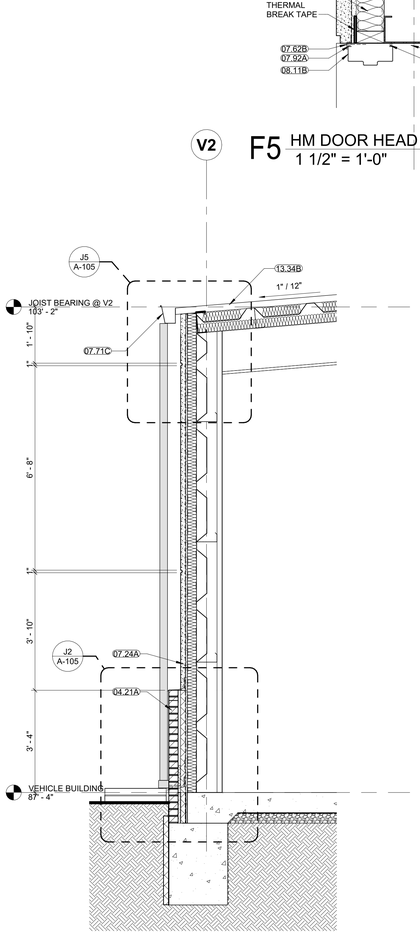
F5 HM DOOR HEAD @ MTL BUILDING
1 1/2" = 1'-0"



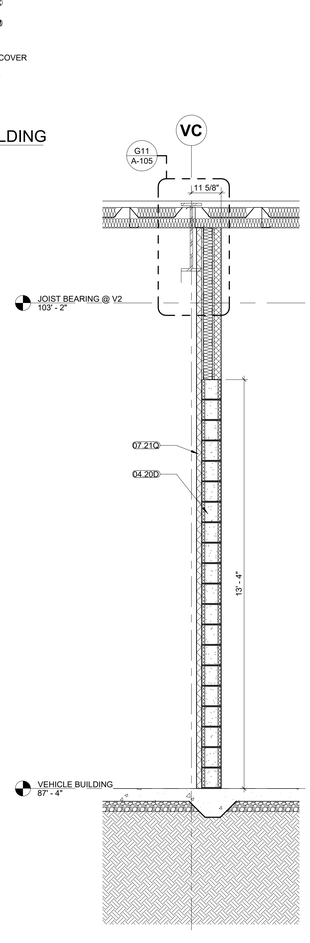
A12 VEHICLE BLDG END WALL
1/2" = 1'-0"



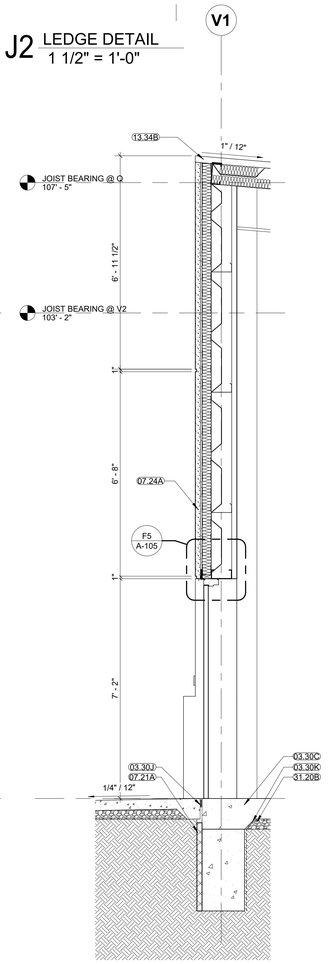
A9 VEHICLE BLDG @ SECTION DOOR
1/2" = 1'-0"



A6 VEHICLE BLDG @ LOW EAVE
1/2" = 1'-0"



A3 VEHICLE BLDG @ CMU PARTION
1/2" = 1'-0"



A2 VEHICLE BLDG SECTION @ DOOR
1/2" = 1'-0"

GENERAL NOTES – EXTERIOR WALL SECTIONS/ DETAILS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FLOOR PLANS, ROOF PLAN AND ELEVATIONS FOR SECTION CUT LOCATIONS.
3. ALL WINDOW AND DOOR OPENING DIMENSIONS ARE ROUGH OPENING DIMENSIONS, UNLESS NOTED OTHERWISE.
4. DIMENSIONS SHOWN ON THE WALL SECTIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
5. PAINT ALL EXPOSED STEEL, INCLUDING STEEL LINTELS, ETC. (TYP.)

MATERIAL KEYNOTES

03.30C	CONCRETE SLAB-ON-GRADE
03.30J	1/2-INCH COMPRESSIBLE JOINT FILLER (HOLD DOWN TOP 1/2-INCH - FILL W/ SEALANT.)
03.30K	UNDER-SLAB VAPOR RETARDER
04.20D	CONCRETE MASONRY UNIT (CMU) - 7 5/8 INCH
04.21A	FACE BRICK
04.22B	GROUT SOLID - MASONRY CELLS
04.22E	TIES AND ANCHORS
04.22G	WEEP VENTS @ 24-INCH O.C.
04.22H	CAVITY DRAINAGE MATERIAL (MORTAR NET)
05.12D	STEEL ANGLE
05.31A	STEEL ROOF DECK
05.41B	EXTERIOR NON-LOAD-BEARING MTL C-STUDS - 3 5/8-INCH - RE: STRUCT. FOR SPACING
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
06.16D	EXTERIOR GLASS-MAT GYPSUM WALL SHEATHING W/ TAPED AND SEALED SEAMS
07.21A	2-INCH RIGID PERIMETER SLAB-ON-GRADE INSULATION
07.21B	EXTRUDED-POLYSTYRENE BOARD INSULATION WITH TAPED AND SEALED SEAMS
07.21E	3-1/2-INCH THERMAL BATT INSULATION
07.21Q	2" SEMI RIGID INSULATION, PIN MOUNTED TO WALL
07.24A	WATER DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
07.27B	FLUID-APPLIED MEMBRANE AIR BARRIER
07.62A	PREFINISHED SHEET METAL FLASHING
07.62B	PREFINISHED METAL SILL FLASHING
07.71C	PREFINISHED METAL GUTTER
07.71D	PREFINISHED METAL DOWNSPOUT
07.71G	SPLASH PAN
07.92A	JOINT SEALANT
08.11B	HOLLOW METAL FRAME
08.36	SECTIONAL DOOR
09.29A	INTERIOR 5/8-INCH GYP. BD. REF: WALL TYPES
13.34A	METAL BUILDING SYSTEMS - STRUCTURAL FRAMING
13.34B	METAL BUILDING SYSTEMS - ROOF PANELS
13.34C	METAL BUILDING SYSTEMS - WALL PANEL
13.34M	METAL BUILDING SYSTEMS - METAL GIRT
31.20B	GRANULAR FILL

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ALTERNATE #2 - VEHICLE BUILDING