JEFFERSON CITY CONFERENCE CENTER AND HOTEL

SCHEMATIC DESIGN

SEPTEMBER 17, 2025

PROJECT TEAM

OWNER
CITY OF JEFFERSON CITY
320 E. MCCARTY STREET
JEFFERSON CITY, MISSOURI 65101

DEVELOPMENT MANAGER
GARFIELD PUBLIC / PRIVATE
14911 QUORUM DRIVE, SUITE 380
DALLAS, TEXAS 75254
817.913.8698

GENERAL CONTRACTOR
MCCOWN GORDON
850 MAIN STREET
KANSAS CITY, MISSOURI 64105
816.365.0314

ARCHITECT
DLR GROUP
7290 W. 133RD STREET
OVERLAND PARK, KS 66213
913.897.7811

ASSOCIATE ARCHITECT
FACET ARCHITECTURAL DESIGN
12 SUNNEN DRIVE, SUITE 100
MAPLEWOOD, MISSOURI 63143
314.821.1100

INTERIOR DESIGNER
LOONEY AND ASSOCIATES
3131 MCKINNEY AVE, SUITE 310
DALLAS, TEXAS 75204
214.720.4477

CIVIL
BARTLETT & WEST
601 MONROE STREET, SUITE 201
JEFFERSON CITY, MISSOURI 65101
573.659.6764

LANDSCAPE
DLR GROUP
7290 W. 133RD STREET
OVERLAND PARK, KS 66213
913.685.5613

STRUCTURAL (HOTEL & CONFERENCE)
THORNTON TOMASETTI
8750 N. CENTRAL EXP, SUITE 700
DALLAS, TEXAS 75231
972.764.6240

STRUCTURAL (PARKING GARAGE)
FISHBECK
4774 CAMPUS DRIVE
KALAMAZOO, MICHIGAN 49008
469.715.1044

MECHANICAL-ELECTRICAL-PLUMBING-FIRE PROTECTION
BLUM CONSULTING ENGINEERING
12790 MERIT DRIVE, BUILDING 9, SUITE 700
DALLAS, TEXAS 75251
214.373.8222

PARKING CONSULTANT
FISHBECK
4774 CAMPUS DRIVE
KALAMAZOO, MICHIGAN 49008
469.715.1044

TECHNOLOGY / ACOUSTICS
SAUNDERS ASSOCIATES
1910 PACIFIC, SUITE 14180
DALLAS, TEXAS 75201
877.709.1400

FOOD SERVICE / LAUNDRY
WORRELL DESIGN GROUP
10705 BRIAR FOREST DRIVE
HOUSTON, TEXAS 77042
713.784.0290

LIGHTING DESIGNER
LS GROUP
2727 WEST 2ND STREET
DENVER, COLORADO 80219
720.938.2442

POOL CONSULTANT
REENGINEERED INC.
P.O. BOX 480
MONTICELLO, MINNESOTA 55362
765.250.0071

CODE / LIFE SAFETY
FCS, INC.
3100 SOUTH 24TH STREET, SUITE E
KANSAS CITY, KANSAS 66106
913.722.3473

ACCESSIBILITY
GALBO + WOLF
4410 MASSACHUSETTS AVE NW, #240
WASHINGTON, D.C. 20016
202.977.7422

VERTICAL TRANSPORTATION
PERSOHN / HAHN
111621 SPRING CYPRESS RD, SUITE D
TOMBALL, TEXAS 77377
713.467.4440

DLRGROUP
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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD PUBLIC / PRIVATE LLC

220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

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G0.1

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DLR GROUP

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SHEET INDEX

G0.2

GENERAL ABBREVIATIONS

#	NUMBER
&	AND
@	AT
ADA	AMERICANS WITH DISABILITY ACT
ADDN	ADDITION OR ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BSMT	BASEMENT
CL	CENTER LINE
CLG	CEILING
CM	CENTIMETER
CONC	CONCRETE
CONN(S)	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CTR	CENTER
D	DEPTH
DEG	DEGREE
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DIV	SPECIFICATION DIVISION
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENG	ENGINEER(ING)
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EXST	EXISTING
EXT	EXTERIOR
FF	FINISH FLOOR
FIN	FINISHED
FL	FLOOR
FT	FEET
GC	GENERAL CONTRACTOR
GOVT	GOVERNMENT
H	HEIGHT
HORIZ	HORIZONTAL
HT	HEIGHT
i.e.	THAT IS
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
INT	INTERIOR
LB(S)	POUND(S)
M	METER
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
OVHD	OVERHEAD
PENT	PENTHOUSE
PEQ	PLAYGROUND EQUIPMENT
PLYWD	PLYWOOD
QTY	QUANTITY
REQ(D)	REQUIRE(D)
REV	REVISION(S)
RM	ROOM
RND	ROUND
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SYM	SYMETRICAL
TEMP	TEMPORARY
TYP	TYPICAL
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
W	WIDE (WIDTH)
W/	WITH
W/O	WITHOUT

GENERAL SYMBOLS

- DETAIL NUMBER
- CROSS REFERENCE
- SHEET NUMBER
- BUILDING ELEVATION
- INTERIOR ELEVATION
- SIMILAR OR TYPICAL REFERENCE
- WALL SECTION
- DETAIL REFERENCE
- BUILDING SECTION
- SHEET NOTE
- REFERENCE KEYNOTE
- COLUMN GRID LINE
- ROOM NUMBER/NAME
- REVISION NUMBER
- LEVEL ELEVATION
- FINISH FLOOR ELEVATION
- SPOT ELEVATION

- EARTH
- GRAVEL
- SAND
- CONCRETE
- PRECAST CONCRETE
- STEEL
- STONE
- CONCRETE MASONRY UNIT
- BRICK VENEER
- GYM FLOOR
- WOOD (CONTINUOUS BLOCKING)
- WOOD (NON-CONTINUOUS BLOCKING)
- WOOD (TRIM/FINISH)
- GLASS
- SHINGLES
- PLYWOOD (LARGE SCALE)
- GYPSUM WALL BOARD
- BLANKET INSULATION
- RIGID INSULATION
- SPRAY FOAM INSULATION
- MINERAL WOOL INSULATION
- PROTECTION BOARD
- CARPET (LARGE SCALE)
- ACOUSTIC TILE (LARGE SCALE)
- TILE (LARGE SCALE)

SITE SYMBOLS

- PROPERTY LINE
- LOT LINE
- EASMENT LINE
- BUILDING LINE, EXISTING
- BUILDING LINE, NEW W/DOOR OPENING AND STRUCTURAL STOOP
- PRIMARY CONTOUR, EXISTING
- PRIMARY CONTOUR, NEW
- SECONDARY CONTOUR, EXISTING
- SECONDARY CONTOUR, NEW
- SLOPE, PAVEMENT
- DRAINAGE DITCH OR SWALE
- STREET CENTERLINE
- CURB, THICKENED EDGE
- CURB, EXISTING
- CURB, NEW
- PAVING CONTRACTION JOINT
- PAVING KEYED CONSTRUCTION JOINT
- PAVING TIED CONSTRUCTION JOINT
- PAVING EXPANSION JOINT
- FENCE, SECURITY
- FENCE, BARBED WIRE
- FENCE, CHAIN LINK
- FENCE, WOOD
- SEED LIMIT
- SOD LIMIT
- FOUNDATION DRAIN, NON-PERFORATED
- FOUNDATION DRAIN, PERFORATED
- SUBDRAIN, PERFORATED
- SANITARY SEWER
- FORCE MAIN
- WATER
- FIRE
- GAS
- HIGH PRESSURE STEAM
- MEDIUM PRESSURE STEAM
- LOW PRESSURE STEAM
- UNDERGROUND ELEC/TELEPHONE
- OVERHEAD POWER
- LAWN SPRINKLER HOT LINE
- LAWN SPRINKLER LATERAL

- AREA INLET
- CURB INLET
- MANHOLE
- HEAD WALL
- FLARED END
- CLEAN OUT
- CAP
- THRUST BLOCK
- VALVE
- POST INDICATOR VALVE
- REDUCER
- FIRE HYDRANT
- POWER POLE
- LIGHT POLE
- TELEPHONE MANHOLE
- TELEPHONE BOX
- SPRINKLER HEAD, 360°
- SPRINKLER HEAD, 270°
- SPRINKLER HEAD, 180°
- SPRINKLER HEAD, 90°
- QUICK COUPLING
- TREE, EXISTING DECIDUOUS
- TREE, EXISTING CONIFER
- SHADE TREE
- ORNAMENTAL TREE
- DECIDUOUS TREE
- SHRUB
- CLIPPED SHRUB

GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL "A" SERIES SHEETS.
B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
C. RESPONSIBILITY MATRIX SHALL BE COORDINATED AND PROVIDED IN OWNER-CONTRACTOR AGREEMENT. REFER TO MATRIX FOR PROVISIONS.
D. CONTRACTOR SHALL INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS.
E. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR.
F. ARCHITECTURAL FINISH FLOOR ELEVATION 0'-0" EQUALS ACTUAL SITE REFERENCE ELEVATION OF FINISH FLOOR 678.08 FEET.
G. SEE SHEET CP1.1 FOR LOCATION OF WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
H. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH APPROVED PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND / OR SMOKE STOPPAGE. IF NO WALL RATING IS REQUIRED, NO FIRE STOPPING IS REQUIRED. SEE SPECIFICATION SECTION 078413.
I. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS.
J. FIRE-RESISTANCE-RATED ENCLOSURES LIMITED TO STEEL BEAMS AT LEVEL 03 SHALL EXTEND TO UNDERSIDE OF FLOOR ABOVE.
K. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK.
L. ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.
M. GENERAL SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.
N. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT.
O. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
P. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
Q. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR PROPER REMOVAL AND DISPOSAL OF ALL DEBRIS GENERATED BY CONSTRUCTION OF THIS PROJECT. THE REMOVAL AND DISPOSAL OF ALL CONSTRUCTION DEBRIS SHALL BE IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. THE PREMISES SHALL BE KEPT CLEAN AND FREE FROM ALL WASTE MATERIALS.
R. GENERAL CONTRACTOR SHALL PROTECT NEW CONSTRUCTION FROM DAMAGE BY ALL TRADES. ALL SUCH DAMAGE CAUSED BY THE CONTRACTOR DURING THE COURSE OF THIS WORK SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.
S. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO ORDERING OR INSTALLING MATERIALS OR EQUIPMENT.
T. ALL PIPING AND CONDUITS SHALL BE CONCEALED WITHIN WALLS, UNDERGROUND, ABOVE CEILINGS OR IN ARCHITECT APPROVED UTILITY SPACES IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. EXPOSED ITEMS MUST BE LOCATED IN AREAS APPROVED BY THE ARCHITECT. EXPOSED ITEMS SHALL BE INSTALLED AND FINISHED TO PROVIDE MINIMAL VISUAL IMPACT. ALL EXPOSED ITEMS ARE TO BE PAINTED TO MATCH THE ADJACENT SURFACES UNLESS SCHEDULED FOR AN ACCENT COLOR.
U. THE GENERAL CONTRACTOR SHALL COORDINATE CUT-OUT FOR CASEWORK, MILLWORK, OR OTHER EQUIPMENT AS REQUIRED.
V. ELECTRICAL PLANS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, CONDUIT, WIRING, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING AND EXISTING CONDITION. LOCATION OF THESE ITEMS MAY BE ADJUSTED CONDITIONAL UPON THE SATISFACTORY COMPLIANCE WITH ALL OTHER REQUIREMENTS.
W. PROVISIONS SHALL BE MADE AT FULL HEIGHT NON-BEARING WALLS FOR 2- INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH FIRE SAFING INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. FILL AT SMOKE PARTITIONS WITH MATERIALS CAPABLE OF RESISTING THE PASSAGE OF SMOKE. SEE DETAILS ON CODE RATING DETAIL SHEETS.
X. BUILDING SIGNAGE AND SIGNAGE IS BY OWNER AND REQUIRES SEPARATE APPROVALS AND PERMIT FROM THE CITY OF CLEVELAND BY THE OWNER'S SIGN VENDOR. GC TO PROVIDE ALL BLOCKING, STRUCTURAL SUPPORT/ ATTACHMENTS AND POWER FOR SIGNAGE. GC TO COORDINATE, SCHEDULE AND PROVIDE STAGING AREAS AS NEEDED FOR THE OWNER'S SIGN INSTALLATION. HOISTING AND PLACEMENT ARE BY THE SIGN VENDOR.
Y. WHEN SPECIAL INSPECTIONS ARE REQUIRED, THE CONTRACTOR / OWNER SHALL SUBMIT THE NAME AND INFORMATION OF THE SPECIAL INSPECTION TEAM TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO ISSUANCE OF THE BUILDING PERMIT.
Z. ALL WORK LOCATED IN THE PUBLIC RIGHT OF WAY OF WITHIN THE JURISDICTION OF THE CITY UTILITIES AND PUBLIC WORKS DEPARTMENT SHALL COMPLY WITH THE CITY OF CLEVELAND STANDARD SPECIFICATIONS.
AA. THE OWNER SHALL PROVIDE THE GENERAL CONTRACTOR WITH A COPY OF MARRIOTT BUILDING STANDARDS GUIDE FOR REFERENCE.
BB. GENERAL CONTRACTOR TO CONSTRUCT A MOCK UP ROOM W/ ELECTRICAL, MECHANICAL, AND PLUMBING PRIOR TO STARTING WORK ON OTHER GUEST ROOMS. SEE REQUIREMENTS SPECIFICATION SECTION 014000 QUALITY REQUIREMENTS. SEE GUESTROOM FLOOR PLANS FOR LOCATION OF SAMPLE ROOMS.

DLRGROUP
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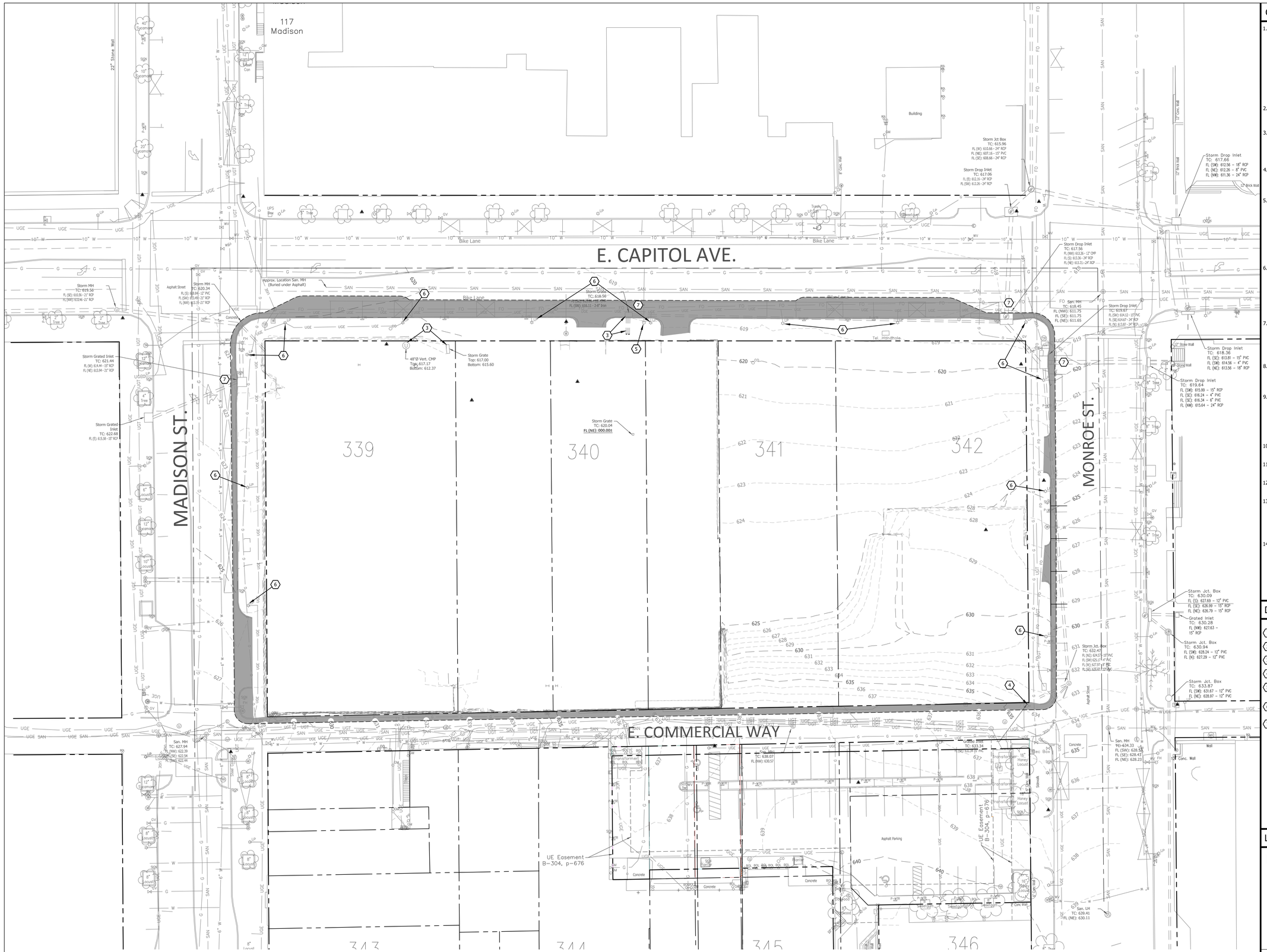
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

G1.1



DESIGN TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

SCALE: 1"=20'

0 20' 40'

ENGINEERING FIRM OF RECORD:

BARTLETT & WEST
601 MONROE ST, SUITE 201
JEFFERSON CITY, MO 65101
PROJECT CONTACT: BRIAN K. MCMILLIAN, PE
EMAIL: BRIAN.MCMILLIAN@BARTWEST.COM
PHONE: 573-659-6764

SURVEY INFORMATION:

ALL SURVEY DATA SHOWN WAS PROVIDED BY:
CENTRAL MISSOURI PROFESSIONAL SERVICES, INC.
2500 E. MCCARTY STREET

CONTACT: KEITH BRICKEY
PHONE: 573-634-3455

NOTE: The Contractor will be responsible to call the MIssouri One Call System - Dial 811 and have the underground utilities marked or remarked prior to any construction.

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE

GENERAL NOTES

1. ALL UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE TOPOGRAPHIC INFORMATION SURVEYED BY CENTRAL MISSOURI PROFESSIONAL SERVICES, INC. AT THE TIME OF DESIGN. CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO FIELD LOCATE AND/OR ADJUST THEIR UTILITY AS REQUIRED FOR CONSTRUCTION. DIG SAFE SHALL LOCATE PUBLIC UTILITIES. OWNER WILL COORDINATE 3RD PARTY LOCATER FOR PRIVATE UTILITIES. ALL UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE DESIGN PROFESSIONAL ASSUMES NO LIABILITY FOR SAME.
2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING DEMOLITION AND IS RESPONSIBLE FOR ALL DEWATERING NECESSARY FOR CONSTRUCTION.
3. CARE SHALL BE EXERCISED BY THE CONTRACTOR TO PRESERVE AND/OR PROTECT ANY EXISTING VEGETATION OUTSIDE OF AREAS TO BE GRADED. THE PERSON(S) WHO DAMAGES ANY OF THESE AREAS SHALL BE HELD RESPONSIBLE FOR ALL COSTS OF REPLACEMENT MATERIALS AND LABOR.
4. ALL DEMOLITION AND ALL WASTE EXCAVATION, CONSTRUCTION MATERIALS, DEMOLISHED STRUCTURES AND DEBRIS REMOVED FROM THE SITE SHALL COMPLY WITH THE CITY OF JEFFERSON CITY, MO. DESIGN CODES.
5. CONTRACTOR SHALL PROVIDE THE APPROPRIATE BMP (COMPOST SOCK, GRAVEL FILTER BAGS, WADDLES, SILT FENCE ETC.) AROUND STOCKPILE AREA TO PROTECT ADJACENT INLETS ETC. UNTIL STOCKPILE IS REMOVED FROM SITE. ALL EXCAVATED OR OTHERWISE DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS NEARLY AS IS PRACTICAL. THE REPLACEMENT MATERIALS SHALL BE COMPACTED SO AS TO PREVENT SETTLEMENT. ANY PARKING OR DRIVE SURFACING, SIDEWALK OR ESTABLISHED TURF AREAS SHALL BE REPLACED IN KIND OR AS SHOWN HEREIN.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL BARRICADES REQUIRED FOR SAFETY IN AND AROUND THE CONSTRUCTION SITE. CONTINUOUS MAINTENANCE OF TRAFFIC CONTROL DEVICES DURING THE TERM OF THIS PROJECT IS THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
7. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING REMOVAL AND REPLACEMENT OF ALL UTILITIES ON THIS SITE WITH THE OWNER, AND THE APPROPRIATE UTILITY PROVIDER, ALL UTILITIES INCLUDE, BUT ARE NOT LIMITED TO STORM, SANITARY, GAS, ELECTRIC, WATER, TELEPHONE, AND CABLE.
8. THE CONTRACTOR SHALL ESTABLISH STAGING, STORAGE AND PARKING AREAS PER APPROVAL OF THE OWNER, THE AREAS SHALL BE FENCED WITH TEMPORARY FENCING AS APPROVED BY THE OWNER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL SURVEY STAKES (CONTROL POINTS, REFERENCE POINTS, BENCH MARKS, PROPERTY AND OFFSET CORNERS, AND ALL OTHER ESSENTIAL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS) UNTIL CONSTRUCTION ACTIVITY IS COMPLETED. THE CONTRACTOR SHALL PAY FOR RE-STAKING ANY SURVEY STAKES THAT ARE DESTROYED.
10. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN MOVING OR WORKING NEAR ANY UTILITIES.
11. SAWCUTS ALONG SIDEWALKS AND PAVEMENT SHALL BE REMOVED AT THE NEAREST EXISTING JOINT IF APPLICABLE.
12. CONTACT CITY OF JEFFERSON DEPARTMENT OF PUBLIC WORKS BEFORE DOING ANY WORK ON THE CITY RIGHT OF WAY.
13. A DEMOLITION PROJECT WAS COMPLETED PRIOR TO THIS PROJECT WHICH REMOVED THE EXISTING PARKING GARAGE AND PARKING LOT. THE INFORMATION AT THE TIME OF THE PLAN DEVELOPMENT MAY NOT ACCURATELY REFLECT THE ACTUAL EXTENTS OF REMOVALS OR THE EXISTING ELEVATIONS OF THE PROPERTY.
14. PROTECT ALL STREET LIGHTS, TRAFFIC LIGHTS, TRAFFIC CONTROL BOXES OR OTHER ITEMS NOT CALLED TO BE REMOVED.

DEMOLITION NOTES:

1. SAWCUT LINE
2. REMOVE EXISTING CURB AND PAVING
3. REMOVE EXISTING STORM INLET AND PIPING - COORDINATE WITH NEW STORM WORK
4. REMOVE EXISTING STORM INLET
5. FIRE HYDRANT TO BE RELOCATED - COORDINATE WITH SITE PLAN
6. TAKE DOWN ALL LIGHT POLES ALONG SITE AND SET ASIDE FOR REINSTALLATION OR RETURN TO THE CITY IF NEW POLES ARE INSTALLED (TYP)
7. PROVIDE INLET PROTECTION BMP'S AT ALL STORM INLETS ADJACENT TO SITE.

LEGEND

DEMOLITION AREA

PERIMETER SILT CONTROL

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GARFIELD PUBLIC / PRIVATE LLC

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SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

DESIGN TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

V1.0

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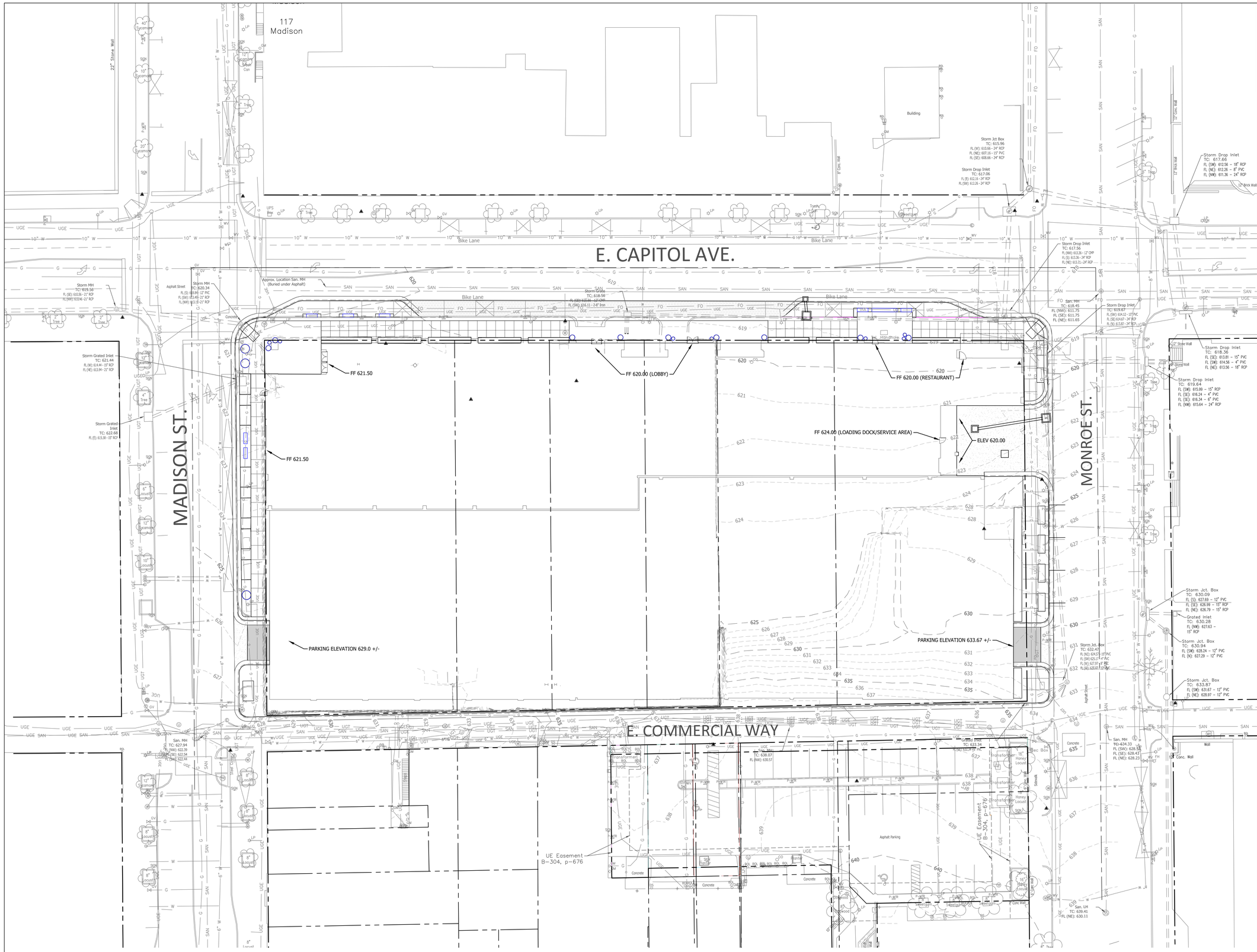

GRADING PLAN
SCALE: 1"=20'
0 20' 40'

NOTE: The Contractor will be responsible to call the MIssouri One Call System - Dial 811 and have the underground utilities marked or remarked prior to any construction.

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE

GRADING NOTES

1. ALL QUANTITIES SHALL BE CALCULATED BY THE CONTRACTOR AND INCLUDE ALL SUBSIDIARY ITEMS NECESSARY TO COMPLETE THE WORK.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL PERMITS REQUIRED FOR THE SITE GRADING.
3. ALL AREAS DISTURBED DURING THE PROGRESS OF THIS PROJECT SHALL BE FINISHED WITH 6" (MIN.) OF TOPSOIL AND GRADED/RESTORED TO EXISTING CONDITIONS PRIOR TO DISTURBANCE.
4. ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS.
5. GRADING PLAN REFLECTS TOP OF TURF OR PAVEMENT ELEVATION UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
7. EXISTING UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION WORK. ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, FENCES, AND/OR INCIDENTALS NOT DESIGNATED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL NOT PERFORM FINAL GRADING OR SEEDING UNTIL ALL UTILITY INSTALLATIONS ARE COMPLETE.
9. NO SLOPES ON THIS SITE SHALL EXCEED 3 TO 1 UNLESS SHOWN ON THE GRADING PLAN.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL SURVEY STAKES (CONSTRUCTION STAKES, CONTROL POINTS, REFERENCE POINTS, BENCH MARKS, PROPERTY AND OFFSET CORNERS, AND ALL OTHER ESSENTIAL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS) UNTIL CONSTRUCTION ACTIVITY IS COMPLETED. THE CONTRACTOR SHALL PAY FOR RE-STAKING ANY SURVEY STAKES THAT ARE DESTROYED.
11. SEE SHEET C500 FOR NOTES AND DETAILS RELATED TO THE LAND DISTURBANCE PERMIT AND SWPPP.

SCHEMATIC DESIGN GRADING NOTE: A DETAILED GRADING PLAN IS NOT DEVELOPED AT THIS TIME, BUT DUE TO THE CLOSE PROXIMITY TO THE STREET, NEW GRADES AND ELEVATIONS WILL ESSENTIALLY MATCH EXISTING STREET GRADES.

STORM WATER QUALITY NOTES:

STORM WATER QUALITY BENEFITS SUMMARY LIST

TEMPORARY MEASURES:

1. INLET PROTECTION
2. PHASING INFORMATION
3. SEDIMENT CONTROL FOR DRAINAGE EXITING SITE
4. MAINTENANCE PROCEDURES. NOTES, ETC.
5. CONCRETE WASHOUT AREA IDENTIFIED.
6. NO FUEL AND CHEMICAL STORAGE
7. PASS THROUGH OF UPSTREAM WATER THROUGH SITE.

PERMANENT MEASURES:

1. ENCLOSED ROOF DRAIN PIPING SYSTEM WHICH MINIMIZES SURFACE EROSION.
2. PERMANENT STORMWATER QUALITY/DETENTION BASIN.
3. DUMPSTER AREA AWAY FROM STORM SYSTEM.

INTERIM PHASING CONSTRUCTION SEQUENCE:

1. CLEAR SITE AND COMPLETE MASS GRADING.
2. DEFINE CONCRETE WASHOUT AND TOPSOIL STOCKPILE LOCATIONS, INSTALL ASSOCIATED SILT FENCING.
3. PLAN MODIFICATION: THE CONTRACTOR MUST MODIFY THE PLAN IF THE PLAN FAILS TO SUBSTANTIALLY CONTROL EROSION AND OFFSITE SEDIMENTATION. THE CONTRACTOR MAY MODIFY THE PLAN OR CONSTRUCTION SEQUENCE IF IMPLEMENTATION IS INFEASIBLE FOR SITE CONDITIONS OR CONTRACTOR METHODS. ANY SUCH MODIFICATION SHALL CONTROL EROSION AND OFFSITE SEDIMENTATION TO THE MAXIMUM EXTENT PRACTICABLE. PLAN MODIFICATIONS DUE TO INEFFECTIVENESS MAY BE TAKEN WITHOUT PRIOR APPROVAL OF THE REVIEW AGENCY, BUT MUST BE FULLY DOCUMENTED AND APPROVAL SECURED FROM THE PERMITTING AUTHORITY AS SOON AS PRACTICABLE. THE DOCUMENTATION LOG IS TO INCLUDE THE DATE AND A BRIEF DESCRIPTION OF THE CHANGE AND THE NAME & TITLE OF THE PERSON WHO AUTHORIZES THE CHANGE, PER PART 7.3.1 OF THE NOI PERMIT.

LEGEND

HP	= HIGH POINT	TS	= TOP OF SIDEWALK
LP	= LOW POINT	ME	= MATCH EXISTING
TC	= TOP OF CURB	FL	= FLOW LINE
TP	= TOP OF PAVEMENT	WT	= FINISH GRADE ELEV. AT TOP OF WALL
GT	= GUTTER		
TOS	= TOP OF SWALE	WB	= FINISH GRADE ELEV. AT BOTTOM OF WALL
FG	= FINISHED GRADE		
EG	= EXISTING GRADE	FF	= FINISH FLOOR ELEV.

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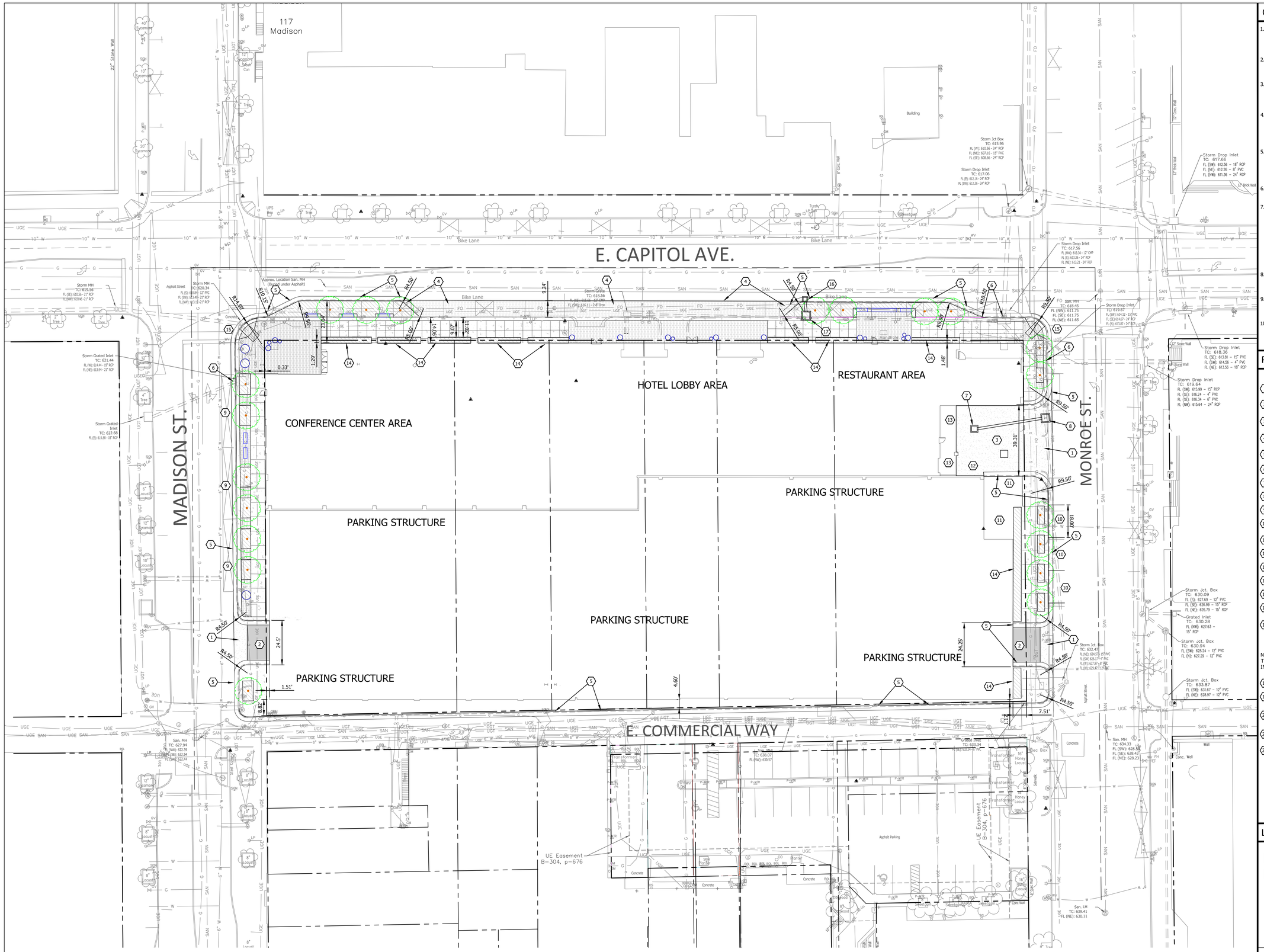
09.17.2025
REVISIONS

13-24114-00

GRADING PLAN

C1.0



SITE LAYOUT PLAN
SCALE: 1"=20'
0 20' 40'

NOTE: The Contractor will be responsible to call the MIssouri One Call System - Dial 811 and have the underground utilities marked or remarked prior to any construction.

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE

GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND QUANTITIES AND SHALL RECORD "AS-BUILT" DIMENSIONS OR LOCATIONS OF ANY APPURTENANCES IF THEY DIFFER FROM THE PLANS.
2. ALL HANDICAPPED SITE FEATURES SHALL BE CONSTRUCTED TO MEET ALL STATE, LOCAL, AND ADA SPECIFICATIONS AS CURRENTLY IN EFFECT.
3. CONTACT AFFECTED OWNER(S) A MINIMUM OF 24 HOURS PRIOR TO HALTING OF UTILITY SERVICES. UNDER NO CIRCUMSTANCE SHALL ANY UTILITY SERVICE BE DISCONTINUED FOR MORE THAN ONE (1) 12-HOUR PERIOD.
4. ALL DISTURBED OFFSITE CONDITIONS SHALL BE REPLACED TO THEIR PREVIOUS CONDITION(S). ANY DAMAGE TO OR REMOVAL OF EXISTING CONDITIONS OCCURRING UPON ADJACENT PROPERTY DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THEIR PREVIOUS CONDITION(S).
5. CARE SHALL BE EXERCISED BY THE CONTRACTOR TO PRESERVE AND/OR PROTECT ANY EXISTING VEGETATION OUTSIDE OF AREAS TO BE GRADED. THE PERSON(S) WHO DAMAGES ANY OF THESE AREAS SHALL BE HELD RESPONSIBLE FOR ALL COSTS OF REPLACEMENT MATERIALS AND LABOR.
6. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION.
7. ALL ROUTING AND INSTALLATION OF PROPOSED UTILITIES (TELEPHONE, GAS, WATER, ETC.) SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND THE APPROPRIATE UTILITY PROVIDER. ALL UTILITY ROUTING SHALL BE APPROVED BY THE OWNER/ARCHITECT AND THE APPROPRIATE UTILITY PROVIDER PRIOR TO INSTALLATION. ANY PROPOSED UTILITY ROUTING DESIGNATED ON THESE DOCUMENTS ARE FOR GENERAL GUIDELINES ONLY UNLESS OTHERWISE SPECIFIED. BARTLETT & WEST INC. ASSUMES NO LIABILITY FOR IMPROPER ROUTING OR CONNECTIONS TO EXISTING UTILITIES.
8. ALL METHODS AND MEANS OF CONSTRUCTION PERFORMED ON THIS PROJECT SHALL CONFORM TO THE DESIGN CRITERIA FOR THE CITY OF JEFFERSON CITY, MO.
9. REFER TO ELECTRICAL ENGINEER'S PLANS FOR ALL LOCATIONS, TYPE, DESIGN AND DETAILS OF SITE LIGHTING AND ALL ELECTRICAL ROUTING USED THROUGHOUT THE PROJECT.
10. REFER TO LANDSCAPE PLANS FOR FINISHES TO SIDEWALK PAVING AND LANDSCAPE AREAS.

REFERENCE NOTES:

1. CONSTRUCTION CITY OF JEFFERSON COMMERCIAL ENTRANCE (SEE DETAIL C5.1)
2. INSTALL 6" PCC PAVING ON 4" TYPE 5 BASE FROM COMMERCIAL ENTRANCE TO PARKING STRUCTURE
3. INSTALL HEAVY DUTY 8" PCC PAVING ON 4" TYPE 5 BASE IN LOADING DOCK AREA
4. SEE LANDSCAPE PLANS FOR FINISH TO PARKING/DROP OFF LANE ALONG CAPITOL AVENUE.
5. CONSTRUCT TYPE A CURB AND GUTTER (SEE DETAIL C5.1) SEE DETAIL FOR PAVEMENT REPAIR AT SAWCUT
6. MATCH CURB LINE TO EXISTING INLET THROAT (TYP)
7. INSTALL 3'X3' GRATE INLET WITH HEAVY DUTY GRATE
8. INSTALL 4'X4' JUNCTION BOX OVER EXISTING LINE
9. RE-PAINT LOADING SPACES ALONG MADISON STREET
10. MARK THREE 18' LONG PARKING SPACES ALONG MONROE WITH PARKING METERS (BY CITY)
11. TRANSFORMER AND ELECTRICAL EQUIPMENT AREA - SEE ARCHITECTURAL / LANDSCAPE FOR ENCLOSURE DETAILS
12. TRASH DUMPSTER AREA
13. 4' LOADING DOCK - SEE ARCHITECTURAL AND STRUCTURAL
14. PLANTER AREA AT BUILDING (SEE LANDSCAPE PLANS)
15. TYPE A3 ADA RAMP (SEE DETAIL SHEET C5.1)
16. INSTALL 2'X2' MODOT INLET WITH VANE GRATE
17. CONSTRUCT 4'X4' JUNCTION BOX OVER EXISTING PIPE AND REMOVE PIPE TO WEST - OFFSET MH LID SO IT FALLS IN PLANTER AREA

NOTE: UTILITY SERVICE INFORMATION NOT AVAILABLE AT TIME OF PRINTING. SEE MEP SITE PLAN FOR MORE INFORMATION.

18. __" FIRE SERVICE WITH DETECTOR CHECK VALVE
19. __" DOMESTIC WATER SERVICE WITH WATER METER PIT
20. __" SANITARY LATER TO MAIN IN CAPITOL AVENUE. NOTE CITY OF JEFFERSON TO CONSTRUCT NEW MH AT CONNECTION LOCATION.
21. ELECTRICAL SERVICE TO COME FROM SOUTHEAST CORNER OF SITE ALONG MONROE TO NEW TRANSFORMER AREA
21. __" GAS SERVICE - SET NEW METER AT BUILDING

LEGEND

- 6" PCC ON 4" BASE PAVING
- 8" PCC ON 4" BASE HEAVY DUTY PAVING OF CITY STANDARD COMMERCIAL ENTRANCE
- TYPE A CURB AND GUTTER (30" WIDE)

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09.17.2025
REVISIONS

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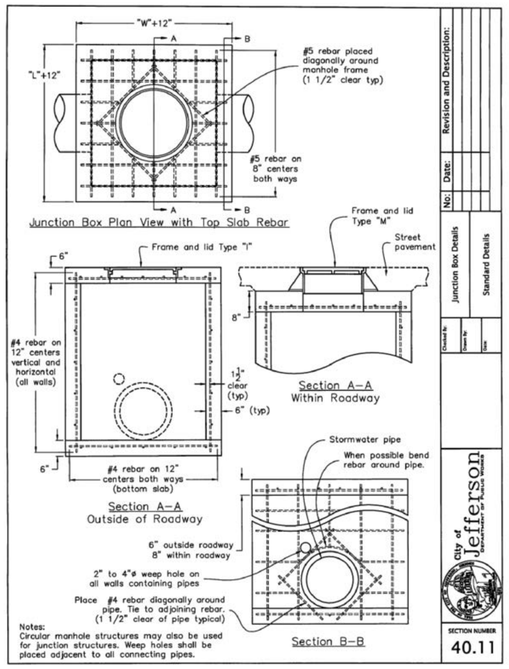
SITE LAYOUT PLAN

C1.1



Notes:
Circular manhole structures may also be used for junction structures. Weep holes shall be placed adjacent to all connecting pipes.

Revision and Description: | No: | Date:
Junction Box Details | Standard Details
Checked By: | Drawn By: | Date:
City of Jefferson
SECTION NUMBER 40.11

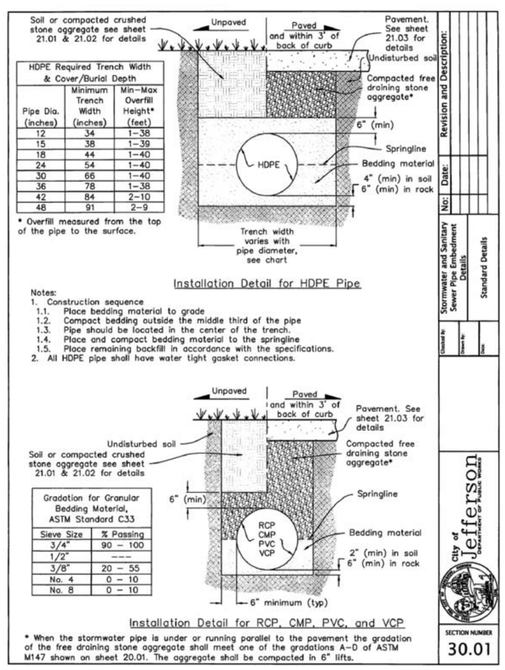
1 CITY STORM JUNCTION BOX DETAIL
NOT TO SCALE

Stormwater Structure Notes:

1. Inlet dimensions are typically listed on the plans as length "L" (dimension parallel to the street) by width "W" (dimension perpendicular to the street). The dimensions reference the interior dimensions of the inlet or junction box.
2. The minimum fall through a stormwater inlet or junction box is 0.20'.
3. Dimensions of the upstream and downstream gutter transitions shall be as detailed unless otherwise specified on the plans.
4. Gutter transitions on inlets in a sump shall be 10 feet long on both sides of inlet unless otherwise specified on the plans.
5. Gutter transitions shall transition uniformly between standard curb and gutter and the inlet wall.
6. Expansion joints and dowel placement between curb and gutter and inlet transition shall be the same as that shown on Type "A" curb and gutter detail.
7. Gutter deflectors (see sheet 40.09) are required when the street slope is 5% or greater or when the inlet is located within a vertical curve connecting to a slope that is 5% or greater.
8. After initial set, remove deflector channel forms and finish surface of concrete.
9. Ring and cover casting should be located on the downstream side of top slab of the curb inlet.
10. All exposed concrete corners shall have a bull nosed finish.
11. Curb inlets shall include an edge angle assembly with a trash rod (see sheet 40.02).
12. Inlets shall have a 2" to 4" diameter weep hole in every side which also contains a stormwater pipe. The weep hole shall be covered with a 12" x 12" piece of filter fabric reinforced by a similarly sized piece of geogrid or wire fabric. The fabric and grid should be firmly attached to the outside of the inlet wall with mastic or by other approved means. Weep holes shall be placed as low as feasible within the inlet wall.
13. All inlets shall have inverts installed to provide for the smooth transition of water to the outlet pipe. (see MoDOT typical invert details)
14. All reinforcement steel shall be 1 1/2" clear of the concrete surface unless otherwise shown.
15. Reinforcing steel shall be bent around pipes and manhole openings when possible. If steel is cut, a diagonal bar shall be used to tie all cut ends together. Reinforcing steel shall be omitted through pipe and manhole openings.
16. When the top slab (also referred to as the "lid") of the inlet is integral to the sidewalk (i.e. part of the sidewalk), #4 bars shall be installed on 12" centers to tie the lid to the sidewalk (see sidewalk details). In the case that the back edge of the inlet is within 12" of the edge of the sidewalk, the top slab shall be cantilevered over the back wall of the inlet structure and extended to match the back edge of the sidewalk. The steel reinforcement shall be the same as is detailed for the top slab of the inlet.
17. Precast inlets shall not be used without the written consent of the City. Without exception the top slab of all inlets shall be poured in place.
18. The top slab of the inlet shall be sloped to match the longitudinal slope of the street. The slope of the top slab perpendicular to the street shall not exceed 2%.
19. For projects undertaken by the City the transitional gutter and inlet pan will be paid as Type "A" curb and gutter.

Revision and Description: | No: | Date:
Stormwater Structure Notes | Standard Details
Checked By: | Drawn By: | Date:
City of Jefferson
SECTION NUMBER 40.01

2 CITY STORM STRUCTURE NOTES
NOT TO SCALE



HDPE Required Trench Width & Cover/Burial Depth		
Pipe Dia. (inches)	Minimum Trench Width (inches)	Min-Max Overfill Height* (feet)
12	34	1-38
15	38	1-39
18	44	1-40
24	54	1-40
30	66	1-40
36	78	1-38
42	84	2-10
48	91	2-9

* Overfill measured from the top of the pipe to the surface.

Installation Detail for HDPE Pipe

Notes:
1. Construction sequence
 1.1. Place bedding material to grade
 1.2. Compact bedding outside the middle third of the pipe
 1.3. Pipe should be located in the center of the trench.
 1.4. Place and compact bedding material to the springline
 1.5. Place remaining backfill in accordance with the specifications.
2. All HDPE pipe shall have water tight gasket connections.

Gradation for Granular Bedding Material, ASTM Standard C33	
Sieve Size	% Passing
3/4"	90 – 100
1/2"	---
3/8"	20 – 55
No. 4	0 – 10
No. 8	0 – 10

Installation Detail for RCP, CMP, PVC, and VCP

* When the stormwater pipe is under or running parallel to the pavement the gradation of the free draining stone aggregate shall meet one of the gradations A-D of ASTM M147 shown on sheet 20.01. The aggregate shall be compacted in 6" lifts.

Revision and Description: | No: | Date:
Stormwater and Sanitary Sewer Reference Details | Standard Details
Checked By: | Drawn By: | Date:
City of Jefferson
SECTION NUMBER 30.01

3 CITY STORM PIPE INSTALLATION DETAIL
NOT TO SCALE

STORM PROFILES - (NOT DETERMINED YET)
NOT TO SCALE

NOTE: The Contractor will be responsible to call the MIssouri One Call System - Dial 811 and have the underground utilities marked or remarked prior to any construction.

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE

GENERAL NOTES

1. HDPE REFERS TO THE SMOOTHWALL INTERIOR PIPE PER AASHTO M294, TYPE S PIPE. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 AND THE MANUFACTURER'S PUBLISHED GUIDELINES FOR TRENCH WIDTH, BEDDING AND BACKFILL.
2. PVC STORM PIPE SHALL BE SDR 35 PIPE AND FITTINGS FOR 8" AND LARGER AND SCHEDULE 40 FOR 6" AND LOWER. APPROPRIATE FITTINGS FOR CONNECTION TO HDPE PIPE DO NOT HAVE TO BE PVC, BUT WHAT WORKS BEST FOR THE CONNECTION.
3. BACKFILL ABOVE STORM PIPES AND BELOW PAVED AREAS SHALL HAVE 95% COMPACTION OR FULL DEPTH CHAT BACKFILL.
4. ALL CONCRETE STRUCTURES SHALL BE PER CITY OF JEFFERSON STANDARD DETAILS.
5. 100 YEAR STORM OVERFLOW NOTE: (SEE PROFILE VIEW FOR INFORMATION ON 100 YEAR STORM OVERFLOW)

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STORM WATER PROFILES AND DETAILS

C2.0

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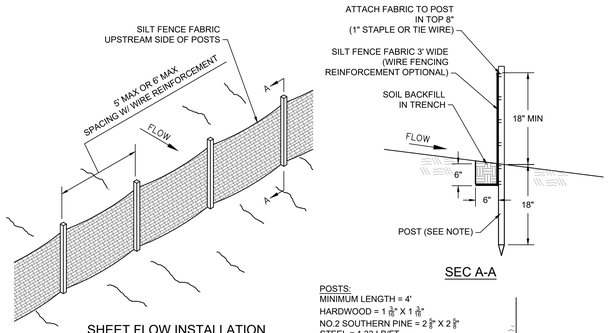


SHEET FLOW INSTALLATION
PERSPECTIVE VIEW

SEC A-A

POSTS:
MINIMUM LENGTH = 4'
HARDWOOD = 1 3/8" X 1 3/8"
NO.2 SOUTHERN PINE = 2 1/4" X 2 1/4"
STEEL = 1.33 LB/FT

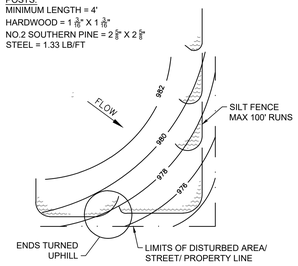
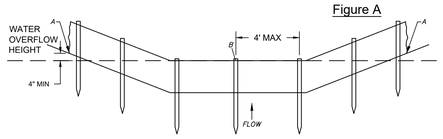


Figure A

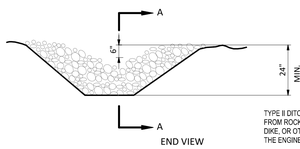


DITCH CHECK INSTALLATION
FRONT ELEVATION

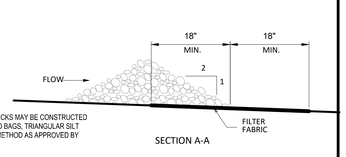
SILT FENCE DITCH CHECK SPACING	
DITCH CENTERLINE SLOPE (%)	SPACING INTERVAL (FEET)
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	33

SILT FENCE
NOT TO SCALE

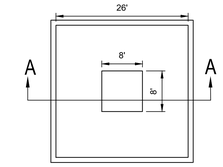
NOTES:
1. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE, FILTER CLOTH SHALL BE SECURELY SPLICED TOGETHER ONLY AT SUPPORT POSTS, WITH A MAX 6" OVERLAP..
2. TRENCHING IN THE DIMENSIONS SHOWN IS ACCEPTABLE, HOWEVER INSTALLATION WITH SLICING MACHINE IS PREFERRED.
3. FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
4. PLACE THE BOTTOM 1 FOOT OF FABRIC IN THE MINIMUM OF 6" DEEP TRENCH, LAPPING TOWARD THE UPSLOPE SIDE. BACKFILL WITH COMPACTED EARTH OR GRAVEL.
5. LONG PERIMETER RUNS OF SILT FENCE MUST BE LIMITED TO 100' AT WHICH PLACE THE ENDS OF THE SILT FENCE MUST BE TURNED UPHILL (FIGURE A)
6. IF A SILT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, IT MUST BE OF SUFFICIENT LENGTH TO ELIMINATE ENDFLOW, AND PLACED ON A CONTOUR, WITH THE ENDS ORIENTED UPSLOPE.
7. TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SEDIMENT STORAGE AREA IN THE UPSLOPE SIDE OF THE FENCE. PROVIDE GOOD ACCESS IN AREA OF HEAVY SEDIMENTATION FOR CLEAN OUT AND MAINTENANCE.
8. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. AVOID DAMAGING OR UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT ACCUMULATION SHOULD NOT EXCEED 1/2 THE HEIGHT OF THE FENCE.
9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.



TYPE II DITCH CHECKS MAY BE CONSTRUCTED FROM ROCK, SAND BAGS, TRIANGULAR SILT DIKE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.

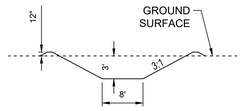


TYPE II - DITCH CHECK
NOT TO SCALE



PLAN

NOTE:
CONCRETE WASHOUT AREA SHALL HAVE VISIBLE SIGN INSTALLED ADJACENT TO THE FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS

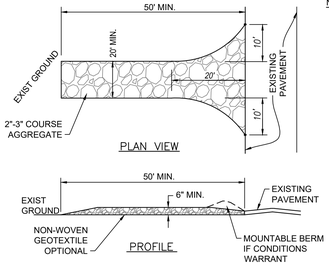


SECTION A-A

NOTES:
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 RELATIVE TO THE AMOUNT OF CONCRETE TO BE PLACED ON SITE. THE SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1. 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 ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION(S) OF THE CONCRETE WASHOUT AREA(S) TO OPERATORS OF CONCRETE TRUCK AND PUMP RIGS.
5. A ONE-PIECE IMPERVIOUS LINER (10 MILS PLASTIC) MAY BE REQUIRED ALONG THE BOTTOM AND SIDES OF THE SUBSURFACE PIT IN SANDY OR GRAVELLY SOILS.
6. THE CONTRACTOR MAY ELECT TO USE AN ALTERNATE CONCRETE WASHOUT CONFIGURATION OR LOCATION WITH PRIOR APPROVAL FROM THE ENGINEER.

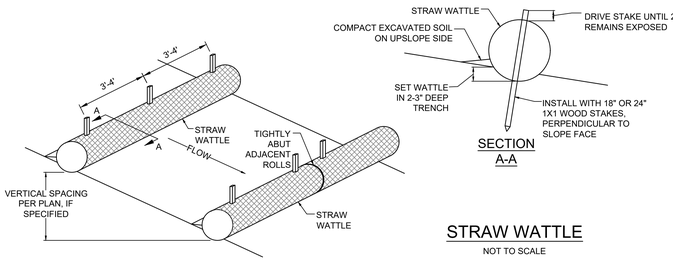
MAINTENANCE:
7. CONCRETE WASHOUT MATERIALS SHALL BE REMOVED ONCE THE MATERIALS HAVE FILLED THE WASHOUT TO APPROXIMATELY 75% FULL.
8. CONCRETE WASHOUT AREAS SHALL BE ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
9. AFTER ALL LIQUIDS EVAPORATE OR ARE PUMPED OR VACUUMED, AND REMAINING SLURRY SOLIDIFIED, THE CONTRACTOR MAY BURY THE SOLIDS ON SITE, A MINIMUM OF 18 INCHES BELOW FINISHED GRADE. OTHERWISE CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN WATER-TIGHT CONTAINER AND LEGALLY DISPOSED OF.
10. CONCRETE WASHOUT AREAS SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
11. WHEN CONCRETE WASHOUT AREAS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL AND TOPSOIL, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CONCRETE WASHOUT AREAS SHALL BE STABILIZED.

CONCRETE WASHOUT AREA
NOT TO SCALE



NOTES:
1. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
2. 20' MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
3. IF SLOPE TOWARDS THE PUBLIC ROAD EXCEEDS 2%, CONSTRUCT A 6- TO 8-INCH HIGH RIDGE WITH 3:1 SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF FROM IT.
4. IF CONDITIONS WARRANT, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY
5. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REAPIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC STREETS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE



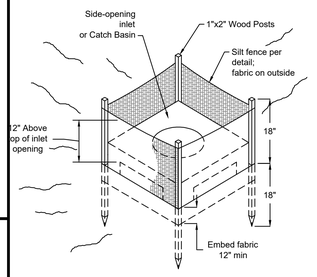
STRAW WATTLE
NOT TO SCALE

INTERIM PHASING CONSTRUCTION SEQUENCE:

1. SET UP CONSTRUCTION PERIMETER AND LOCATE THE CONSTRUCTION ACCESS GATE. PLACE DNR PERMIT SIGN AT CONSTRUCTION ENTRANCE. KEEP PAVEMENT IN PLACE AT CONSTRUCTION ENTRANCE FOR DURATION OF PROJECT. IF REMOVED AT ANY PHASE, INSTALL A GRANULAR ENTRANCE.
2. PROCEED WITH DEMOLITION WORK OF EXISTING PARKING GARAGE STRUCTURE.
3. WHEN THE STRUCTURE HAS BEEN REMOVED AND PAVEMENT REMOVALS BEGIN, INSTALL PERIMETER SILT CONTROLS IN DISTURBED AREAS AND INSTALL INLET PROTECTION AT AFFECTED STORM INLETS.
4. IF ALTERNATE BID OPTIONS ARE ACCEPTED WHICH INCLUDE THE INSTALLATION OF NEW PAVING AND CURB, THEN DEFINE CONCRETE WASHOUT AND TOPSOIL STOCKPILE LOCATIONS, INSTALL ASSOCIATED SILT FENCING.
5. REMOVE ALL SITE PAVING AND STABILIZE SITE FOR TURN-OVER TO BUILDING CONTRACTOR.
6. PLAN MODIFICATION: THE CONTRACTOR MUST MODIFY THE PLAN IF THE PLAN FAILS TO SUBSTANTIALLY CONTROL EROSION AND OFFSITE SEDIMENTATION. THE CONTRACTOR MAY MODIFY THE PLAN OR CONSTRUCTION SEQUENCE IF IMPLEMENTATION IS INFEASIBLE FOR SITE CONDITIONS OR CONTRACTOR METHODS. ANY SUCH MODIFICATION SHALL CONTROL EROSION AND OFFSITE SEDIMENTATION TO THE MAXIMUM EXTENT PRACTICABLE. PLAN MODIFICATIONS DUE TO INEFFECTIVENESS MAY BE TAKEN WITHOUT PRIOR APPROVAL OF THE REVIEW AGENCY, BUT MUST BE FULLY DOCUMENTED AND APPROVAL SECURED FROM THE PERMITTING AUTHORITY AS SOON AS PRACTICABLE. THE DOCUMENTATION LOG IS TO INCLUDE THE DATE AND A BRIEF DESCRIPTION OF THE CHANGE AND THE NAME & TITLE OF THE PERSON WHO AUTHORIZES THE CHANGE, PER PART 7.3.1 OF THE NOI PERMIT.

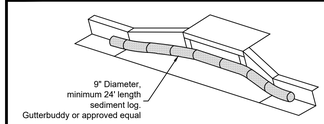
FINAL RESTORATION PLAN CONSTRUCTION SEQUENCE:

1. REMOVE ANY BMP'S THAT WERE CONSTRUCTED WITH THE PRE-CLEARING PLAN THAT ARE NOT SHOWN ON THIS SHEET.
2. IMPLEMENT FINAL STABILIZATION: COORDINATE REMOVAL OF CONSTRUCTION PHASE BMPS NECESSARY TO PLACE FINAL STABILIZATION WITH LOCAL WEATHER FORECAST SO THAT REMOVAL AND PLACEMENT MAY BE COMPLETED WITHIN A FORECAST DRY PERIOD. DOWN-SLOPE PERIMETER CONTROLS SHALL NOT BE REMOVED UNTIL FINAL STABILIZATION IS PLACED AND VEGETATIVE COVER IS ESTABLISHED OVER THE REMAINDER OF THE SITE.
3. ESTABLISHMENT AND FINAL CONSTRUCTION: ONCE THE REMAINDER OF THE SITE IS STABILIZED INCLUDING ESTABLISHMENT OF SEEDED COVER TYPES, CONSTRUCT PERMANENT WATER QUALITY BMPS AND REMOVE THE SEDIMENT CONTROLS AND THE REMAINING ACCESS CONTROLS. RESTORE AREA DISTURBED BY REMOVAL OF SEDIMENT CONTROLS.
4. CONTRACTOR SHALL REPLACE DISTURBED AREAS WITH SEED OR SOD, AS INDICATED ON THE PLAN WITHIN 14 DAYS AFTER PAVING COMPLETION AND FINAL TOPSOIL GRADING. REFER TO LANDSCAPE PLAN FOR TOPSOIL SPECIFICATIONS.
5. THE RETENTION OF ACCESS CONTROLS AND SEDIMENT CONTROLS UNTIL VEGETATIVE DENSITY OF AT LEAST 70% IS ESTABLISHED COMPARED TO OFFSITE UNDISTURBED VEGETATIVE COVER



NOTES:
1. Use frame cross members to connect the tops of the posts to stabilize the structure as needed.
2. For use when drainage area is less than 1 acre
3. Stakes to be spaced maximum 4-feet apart.
4. If possible, cut fabric from one continuous roll to eliminate joints.
5. Optional: Wire fence may be used to support the fabric. the wire should be 14-gage minimum with maximum mesh spacing of 6-inches. the top of the fence should b level, and the bottom should be buried at least 6-inches below ground surface.the top of the frame and fabric must be well below the ground elevation downslope from the drop inlet to keep runoff from bypassing the inlet. it may be necessary to build a temporary berm on the downslope side of the structure to prevent bypass flow.
6. Straw Bales may be used in lieu of fabric around catch basins and side-opening inlets. Bales shall be embedded 4" into ground and securely staked in place.
7. Remove sediment from the pool areas as necessary to restore required storage volume for next rain.
8. When contributing drainage area has been stabilized, remove all materials and sediment and dispose of properly in an upland area to dry. Bring the disturbed area to the grade of the inlet opening; smooth and compact.

EARLY STAGE INLET PROTECTION
Not to Scale



The sediment log shall be synthetic filter manufactured from recycled synthetic fibers.

The sediment log shall be cleaned if a visual inspection shows silt and debris build up around the filter log

Ponding is likely if sediment is not removed regularly. inspection of the sediment log should be on a regular basis and immediately after major rain events

LATE STAGE CURB INLET PROTECTION
Not to Scale

SWPPP NOTES

THIS SITE IS GREATER THAN 1 ACRE AND THEREFORE FALLS UNDER THE REQUIREMENTS OF A MISSOURI DNR LAND DISTURBANCE PERMIT. THE OWNERS OF THE PROPERTY HAVE OBTAINED A PERMIT MORA 10031 AND A SWPPP HAS BEEN DEVELOPED. THE PERMIT AND SWPPP SHALL BE POSTED AND ON SITE AT ALL TIMES. AN ABRIDGED VERSION OF THE SWPPP IS OUTLINED BELOW:

1. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
2. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
3. ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
4. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN. THE BARRIER SHALL BE CONSTRUCTED OF A CONTINUOUS SILT PERIMETER BARRIER SILT FENCE INSTALLED AS DETAILED ON SHEET C601. OTHER ITEMS SUCH AS STRAW WATTLES MAY BE USED. LOW AREAS OR AREAS OF CONCENTRATED FLOW SHALL BE REINFORCED AS DETAILED.
5. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
6. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
7. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL, OR SECURED STRAW BALES, OR SILT FENCE.
8. EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE UNTIL 70% GROUND COVER HAS BEEN ESTABLISHED.
9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
10. RIP RAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).
11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY OR AS REQUIRED BY THE CITY OF JEFFERSON, STATE OF MISSOURI DNR, UNITED STATE EPA OR THE ENGINEER.
12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
13. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.
14. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED, AS SHOWN ON THE LANDSCAPE PLAN.
15. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
16. TEMPORARILY SEED ANY DISTURBED AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE WITHIN 30 DAYS.

ADDITIONAL NOTES:
1. ANY LAND CLEARING, CONSTRUCTION OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUION PREVENTION PLAN AND THE PERSON ISSUED A LAND DISTURBANCE PERMIT ASSUMES AND ACKNOWLEDGES RESPONSIBILITY FOR COMPLIANCE WITH THE CITY OF JEFFERSON LAND DISTURBANCE CODE AND THE APPROVED STORM WATER POLLUTION PREVENTION PLAN AT THE SITE OF THE PERMITTED ACTIVITY.
2. CLEARING TECHNIQUES THAT RETAIN EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE SHALL BE USED AND THE TIME PERIOD FOR DISTURBED AREAS TO BE WITHOUT VEGETATIVE COVER SHALL BE MINIMIZED TO THE EXTENT PRACTICAL.
3. CONTRACTOR MAY USE OTHER METHODS OF EROSION CONTROL, IF APPROVED BY THE OWNER.
4. THIS PLAN IS ONLY A GENERAL GUIDE. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE METHODS & LOCATIONS DURING CONSTRUCTION, REGARDLESS OF WHAT IS SHOWN.
5. DO NOT STORE FUEL OR CHEMICALS ON SITE.

ALL EROSION CONTROL NOTES AND STANDARD DETAILS (BMP) WHICH MAY BE RELEVANT TO THIS PROJECT HAVE BEEN INCLUDED IN THIS PLAN SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH BMP TO BE USED FOR MAXIMUM EFFECTIVENESS. SOME OF THESE DETAILS MAY NOT UTILIZED. ADDITIONAL INFORMATION CAN BE FOUND ON IN THE FULL SWPPP.

THE CONTRACTOR SHALL DETERMINE AN ON-SITE CONCRETE WASHOUT AREA.

Space Reserved for Approving Authority

DLR GROUP
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- NOT FOR CONSTRUCTION -

CIVIL ENGINEER:
Bartlett & West
601 MONROE STREET
SUITE 201
JEFFERSON CITY, MO
65101-3180
PH: 573-634-3181
Missouri Certificate
of Authority
No. 000167 - Engineering
www.bartlettwest.com

JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD PUBLIC / PRIVATE LLC

220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

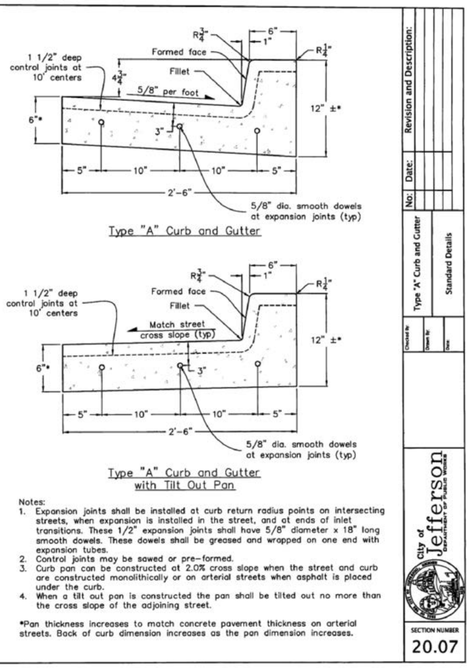
SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

EROSION CONTROL NOTES AND DETAILS

C5.0

M:\PROJECTS\2024\13-24114-00 JEFFERSON CITY CONFERENCE CENTER HOTEL\CAD\SHEETS\13-24114-00_C5.0 EROSION CONTROL NOTES AND DETAILS.dwg, 9/17/2025 12:45:02 PM

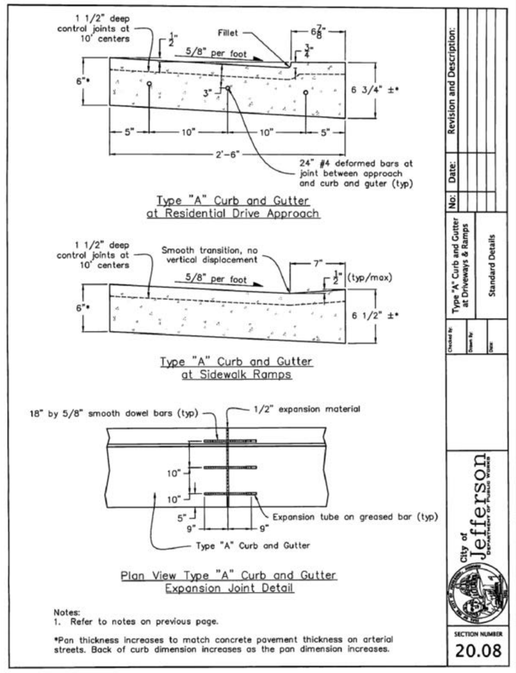


Revision and Description: | No: | Date: | Type 'A' Curb and Gutter | Standard Details | Checked By | Sheet No | Date

City of Jefferson Department of Public Works

SECTION NUMBER 20.07

1 CITY STREET CURB DETAIL
NOT TO SCALE

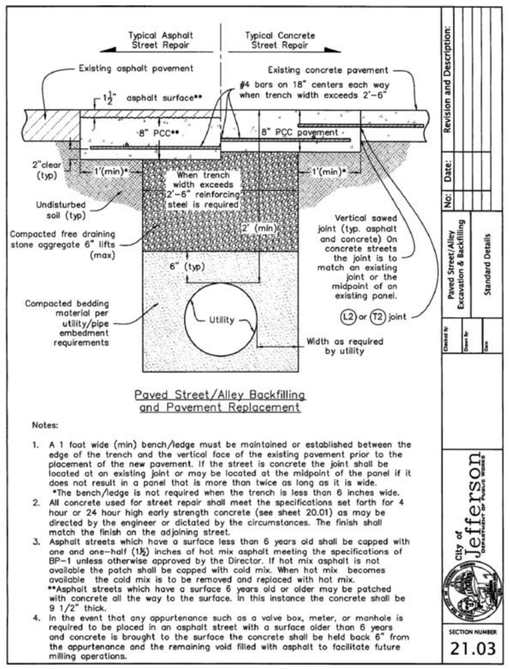


Revision and Description: | No: | Date: | Type 'A' Curb and Gutter at Driveways & Ramps | Standard Details | Checked By | Sheet No | Date

City of Jefferson Department of Public Works

SECTION NUMBER 20.08

2 CITY STREET CURB DETAIL @ RAMP
NOT TO SCALE

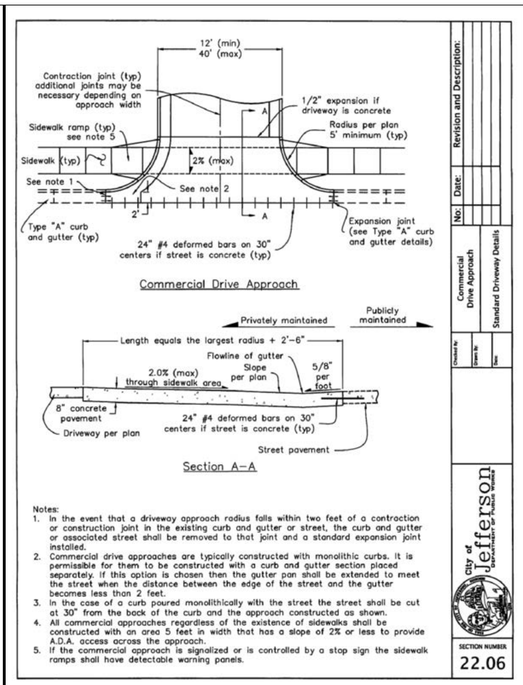


Revision and Description: | No: | Date: | Paved Street/Alley Excavation & Backfilling | Standard Details | Checked By | Sheet No | Date

City of Jefferson Department of Public Works

SECTION NUMBER 21.03

3 CITY STREET CUT DETAIL
NOT TO SCALE

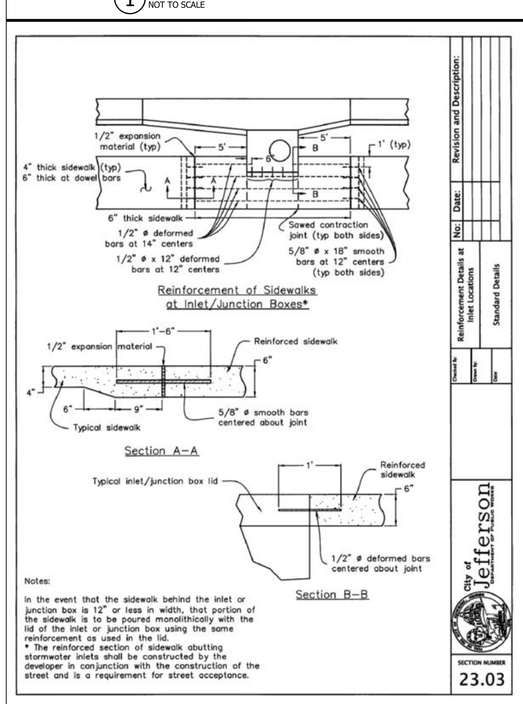


Revision and Description: | No: | Date: | Commercial Drive Approach | Standard Driveway Details | Checked By | Sheet No | Date

City of Jefferson Department of Public Works

SECTION NUMBER 22.06

4 CITY COMMRECIAL DRIVE APPROACH DETAIL
NOT TO SCALE



Revision and Description: | No: | Date: | Reinforcement Details at Inlet Locations | Standard Details | Checked By | Sheet No | Date

City of Jefferson Department of Public Works

SECTION NUMBER 23.03

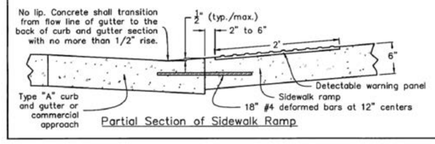
5 CITY SIDEWALK AT INLET DETAIL
NOT TO SCALE

ADA Ramp Notes:

1. Sidewalk ramps shall be constructed on all curbed street intersections, commercial drive approaches, and type "E" residential drive approaches where there is existing or proposed sidewalk and as directed by the engineer.
2. Type B ramps are preferred and should be used whenever possible.
3. All ramps inclusive of the flares shall be 6" thick. In the event that a ramp is longer than 6' the portion of the ramp beyond 6' may be 4" thick.
4. Sidewalk ramps shall match the sidewalk width but shall not be less than 48" wide exclusive of the flared sides.
5. In the instance where an intersecting sidewalk abuts a flare of a ramp the flare shall have a maximum slope of 1:10. (10.0%)
6. Ramps are to have a maximum longitudinal slope of 1:12. (8.33%) in the case where the adjacent street grade is greater than 5% it is permissible to stop the ramp when it reaches 15 feet in length even though the 1:12 slope is not attained.
7. All ramps which are not parallel with the sidewalk (ie. type A and C ramps) shall have a landing whose slope is typically 1.5% in all directions but does not exceed 2% in any direction.
8. Sidewalk ramps should not be aligned with drainage structures.
9. All ramps shall be constructed prior to the sidewalk construction unless otherwise approved.
10. The transition from the flow line of the gutter to back of the curb in the area of a sidewalk ramp shall be smooth with no vertical offset and a rise of no more than 1/2".
11. Ramps shall be doweled to the curb and gutter, monolithic curb, or drive approach with 18" long #4 bars on 12" centers.

Detectable Warning Panels

1. All sidewalk ramps, in locations where the sidewalk intersects a commercial entrance having a traffic control sign or signal, or where the sidewalk intersects a street or alley, shall have detectable warning panels.
2. Detectable warning panels are to be placed at the base of the sidewalk ramp such that the closest point is within 2" to 6" from the back of the curb. (see ramp details). The panels are to be placed across the full width of the ramp, and shall extend along the ramp for a distance of 24". The distance between the back of the curb and the start of the most distant point of the detectable warning panels shall not exceed 5'. In a situation which would cause the panels to exceed 5' the panels shall be placed radialy with the ramp.
3. The detectable warning panels shall be one of the following:
3.1. Wet-Set High-Impact Polymer Tiles or Wet-Set Cast Iron Tiles as manufactured by TufTile. (888-960-8897) TufTile.com
3.2. TekWay High Performance ADA Domes as produced by StrongGo Industries. (866-439-3216) stronggo.com
3.3. Cast in place removable tactile panels produced by ADA Solutions, Inc. (800-372-0519) adatile.com
3.4. Other cast in place panels that are compliant with ADAAG and PROWAG and receive the approval of the engineer.
4. The contractor shall follow the manufacturers recommendations of the installation of the panels. The panels shall match the slope of the ramp and shall be placed such that no vertical displacement occurs between the panel and the surrounding concrete. The panels are to be red in color or in the case of cast iron they may be unpainted.

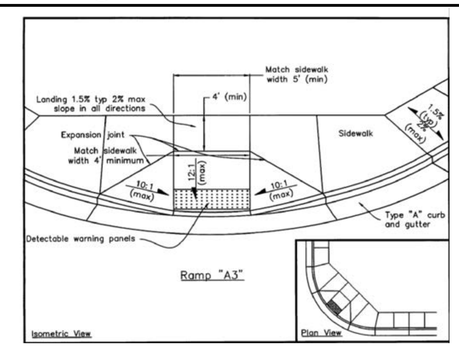


Revision and Description: | No: | Date: | Sidewalk Ramp Notes and Details | Standard Details | Checked By | Sheet No | Date

City of Jefferson Department of Public Works

SECTION NUMBER 23.06

6 CITY SIDEWALK ADA RAMP NOTES
NOT TO SCALE

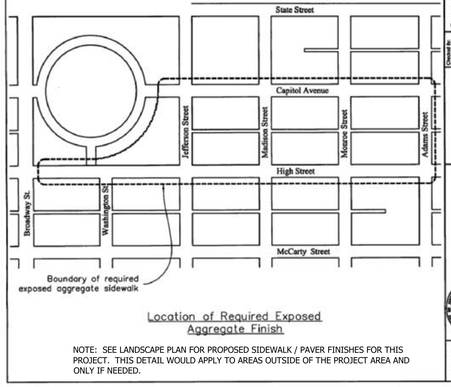


7 CITY SIDEWALK ADA RAMP DETAILS
NOT TO SCALE

Downtown Sidewalk Finish

The sidewalk finish shall be an exposed 3/8" (max) Osage River aggregate. This finish is to be achieved on all exposed (non-colored) concrete construction including sidewalks and accessible ramps.
Exposed Aggregate Finish: Expose Osage River aggregates and sand of pavement surfaces as follows:
1. Immediately after floating, spray-apply chemical surface retarder to pavement according to the manufacturer's written instructions.
2. Cover with plastic sheeting, sealing laps with tape, and remove when ready to continue finishing operations.
3. Block inlets or gutter line to contain washed material for cleanup and disposal.
4. Without disfodging aggregate, remove excess mortar by lightly brushing surface with a stiff, nylon bristle broom.
5. Fine-spray surface with water and brush. Repeat water flushing and brushing cycle until cement film is removed from aggregate surfaces to depth required.
6. Exposed Aggregate Concrete shall be sealed. Sealer to be approved by the Engineer

Contractor may achieve the exposed aggregate finish by other methods upon approval by the engineer.
Curb and Gutter and driveway approaches may be of plain concrete, or other color variation approved by the director.
All concrete shall have a 28 day compressive strength of 4000 psi.



NOTE: SEE LANDSCAPE PLAN FOR PROPOSED SIDEWALK / PAVER FINISHES FOR THIS PROJECT. THIS DETAIL WOULD APPLY TO AREAS OUTSIDE OF THE PROJECT AREA AND ONLY IF NEEDED.

Revision and Description: | No: | Date: | Exposed Aggregate Finish Detail and Location Map | Standard Details | Checked By | Sheet No | Date

City of Jefferson Department of Public Works

SECTION NUMBER 23.16

8 DOWNTOWN SIDEWALK FINISH
NOT TO SCALE

GENERAL NOTES

Space Reserved for Approving Authority

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CIVIL ENGINEER:
Bartlett & West
601 MONROE STREET
SUITE 201
JEFFERSON CITY, MO
65101-3180
PH: 573-634-3181
Missouri Certificate of Authority
No. 000167 - Engineering
www.bartlettwest.com

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CIVIL SITE DETAILS

C5.1

W:\PROJECTS\2024\24114-00\CAD\Sheets\24114-00C-DETAILS.dwg, 9/17/2025 12:49:07 PM

KEYNOTES

- A. ENHANCED PAVING
- B. VEHICULAR PAVERS
- C. STANDARD CONCRETE
- D. 2' CONCRETE BAND
- E. CIP CONCRETE SEATING WITH WOOD TOP FINISH
- F. NEW CANOPY TREES
- G. PLANTER POTS
- H. AT GRADE PLANTING BEDS
- I. METAL PLANTER EDGE
- J. WOOD TOP BENCH
- K. BUS DROP OFF AREA
- L. POWDERCOAT PLANTER
- M. POTENTIAL RESTAURANT SEATING
- N. CONFERENCE CENTER ENTRY
- O. HOTEL ENTRANCE / VALET
- P. SEATING ALCOVE
- Q. SERVICE DOCK
- R. TRANSFORMER
- S. PARKING GARAGE ENTRY
- T. ROOFTOP PLANTERS

SCALE:1"=20' 0 5 10 20 40

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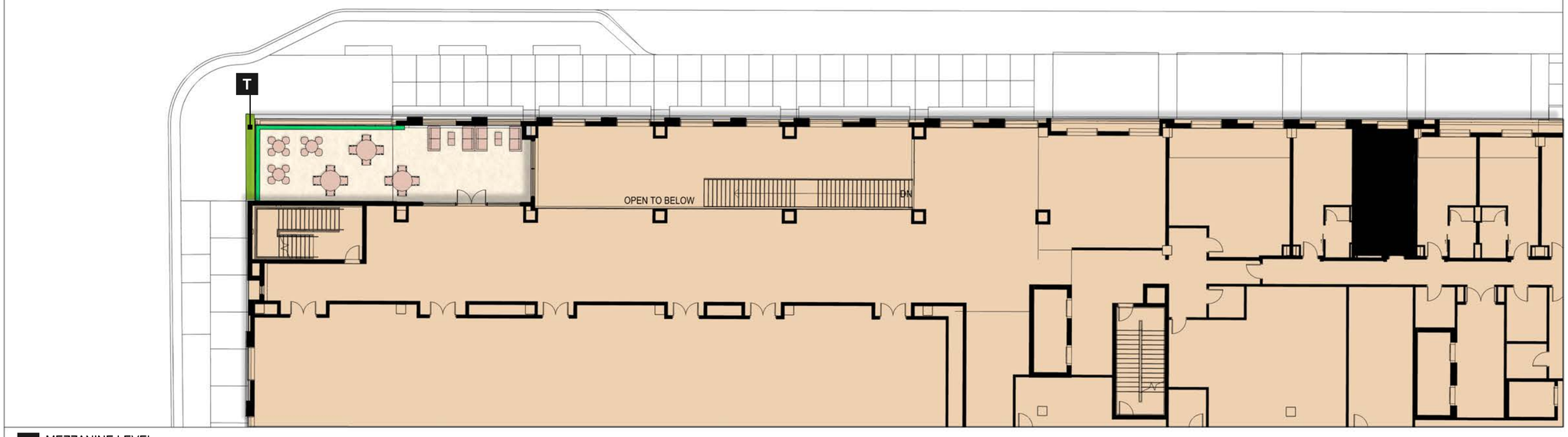
OVERALL SITE PLAN

L1.0

1 POOL DECK

SCALE:1"=10' 0' 2.5' 5' 10' 20'



2 MEZZANINE LEVEL

SCALE:1"=10' 0' 2.5' 5' 10' 20'

KEYNOTES

- **A.** ENHANCED PAVING
- **B.** VEHICULAR PAVERS
- **C.** STANDARD CONCRETE
- **D.** 2' CONCRETE BAND
- **E.** CIP CONCRETE SEATING WITH WOOD TOP FINISH
- **F.** NEW CANOPY TREES
- **G.** PLANTER POTS
- **H.** AT GRADE PLANTING BEDS
- **I.** METAL PLANTER EDGE
- **J.** WOOD TOP BENCH
- **K.** BUS DROP OFF AREA
- **L.** POWDERCOAT PLANTER
- **M.** POTENTIAL RESTAURANT SEATING
- **N.** CONFERENCE CENTER ENTRY
- **O.** HOTEL ENTRANCE / VALET
- **P.** SEATING ALCOVE
- **Q.** SERVICE DOCK
- **R.** TRANSFORMER
- **S.** PARKING GARAGE ENTRY
- **T.** ROOFTOP PLANTERS

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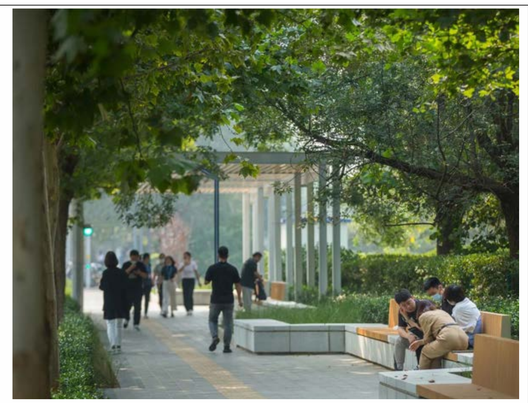
LANDSCAPE PLAN ENLARGEMENTS

L1.1

A ENHANCED PAVING

C STANDARD CONCRETE

D CONCRETE SEATING WITH WOOD TOP & ENHANCED PAVING



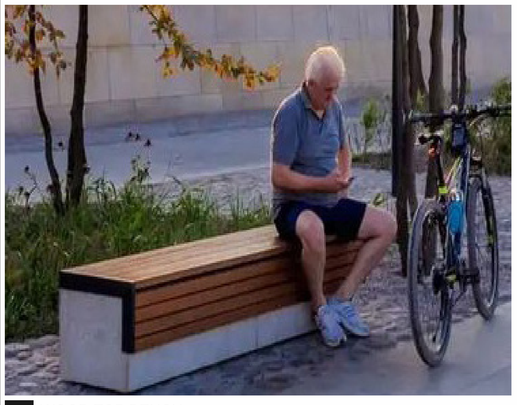
F NEW CANOPY TREES

G PLANTER POTS

G PLANTER POTS ALT

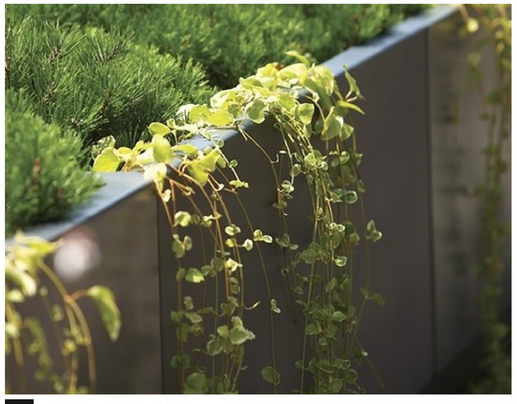
H AT GRADE PLANTING BEDS

I ALUMINUM PLANTER EDGE



J WOOD TOP BENCH

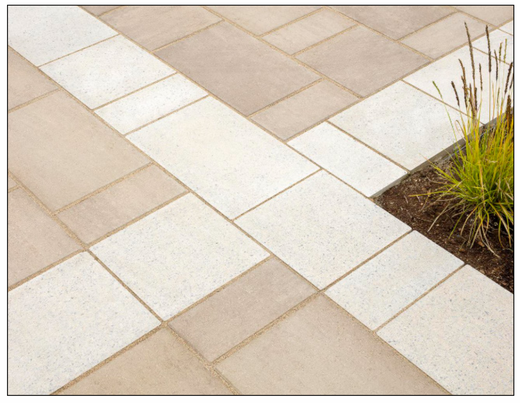
L POWDERCOAT PLANTER



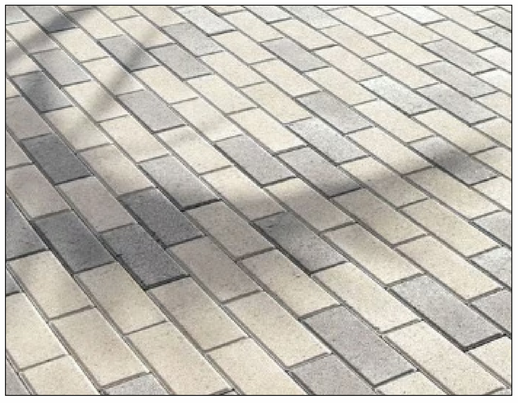
L POWDERCOAT PLANTER

T ROOFTOP PLANTERS

POOL DECK PAVING & PLANTING



ENHANCED CONCRETE PAVERS TYPE 1



ENHANCED CONCRETE PAVERS TYPE 2

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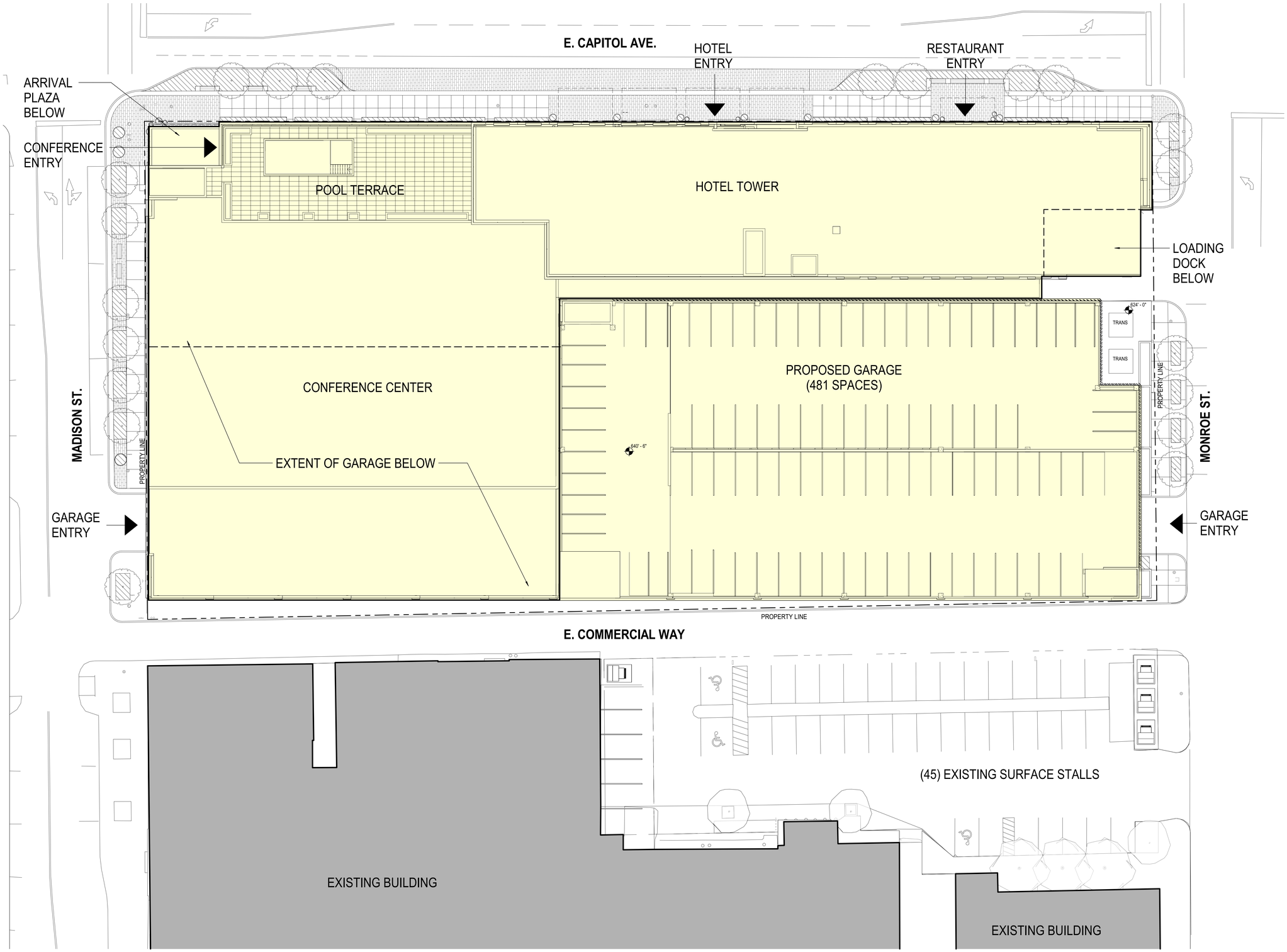
PRECEDENT LANDSCAPE IMAGERY

L2.0



1 AS1.1 ARCHITECTURAL SITE PLAN
SCALE: 1/16" = 1'-0"

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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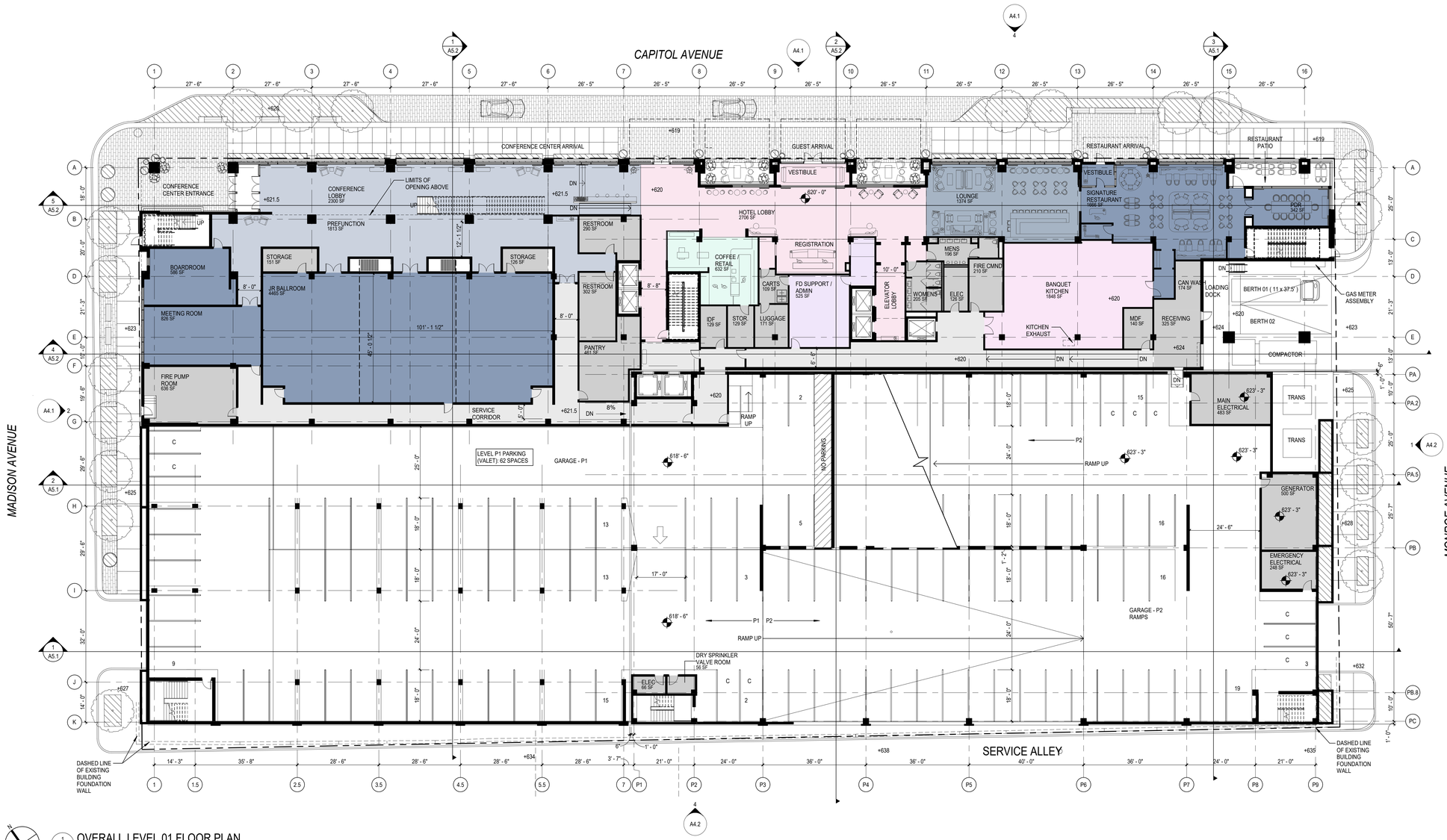
ARCHITECTURAL SITE PLAN

AS1.1



1 A1.1 OVERALL LEVEL 01 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

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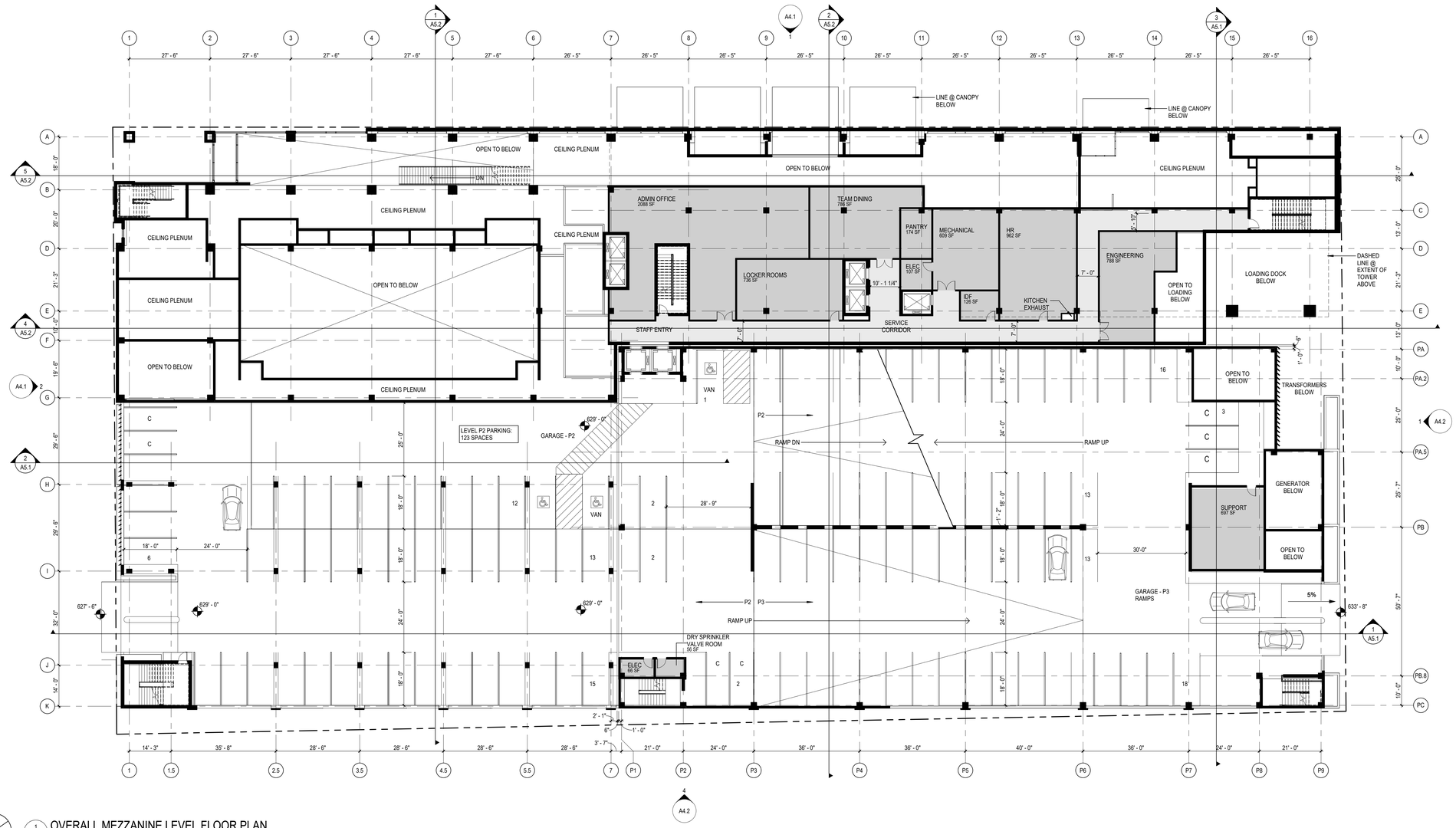
OVERALL LEVEL 01 FLOOR PLAN

A1.1



1 A1.1.5 OVERALL MEZZANINE LEVEL FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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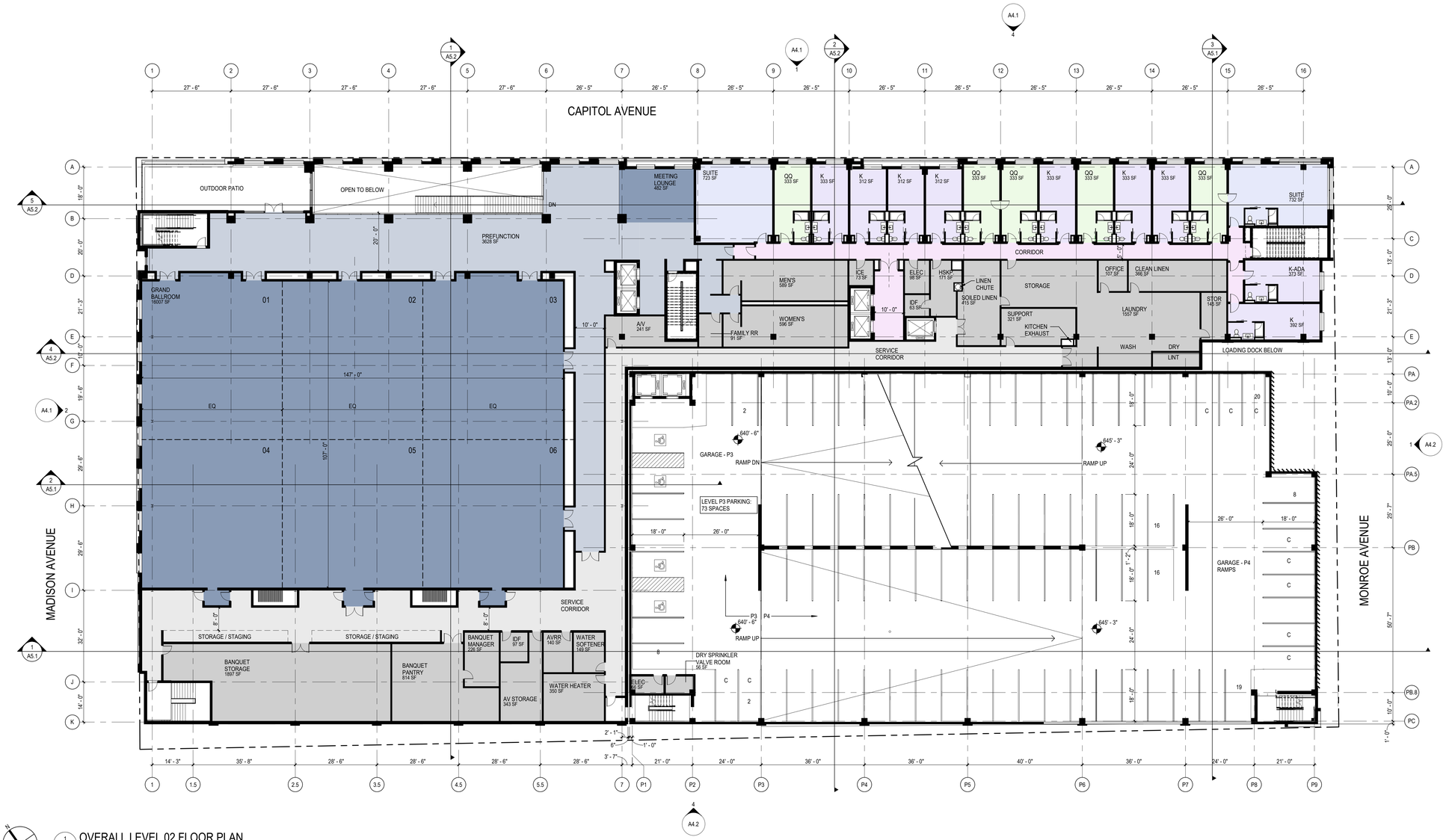
OVERALL MEZZANINE LEVEL FLOOR PLAN

A1.1.5



1 / A1.2 OVERALL LEVEL 02 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

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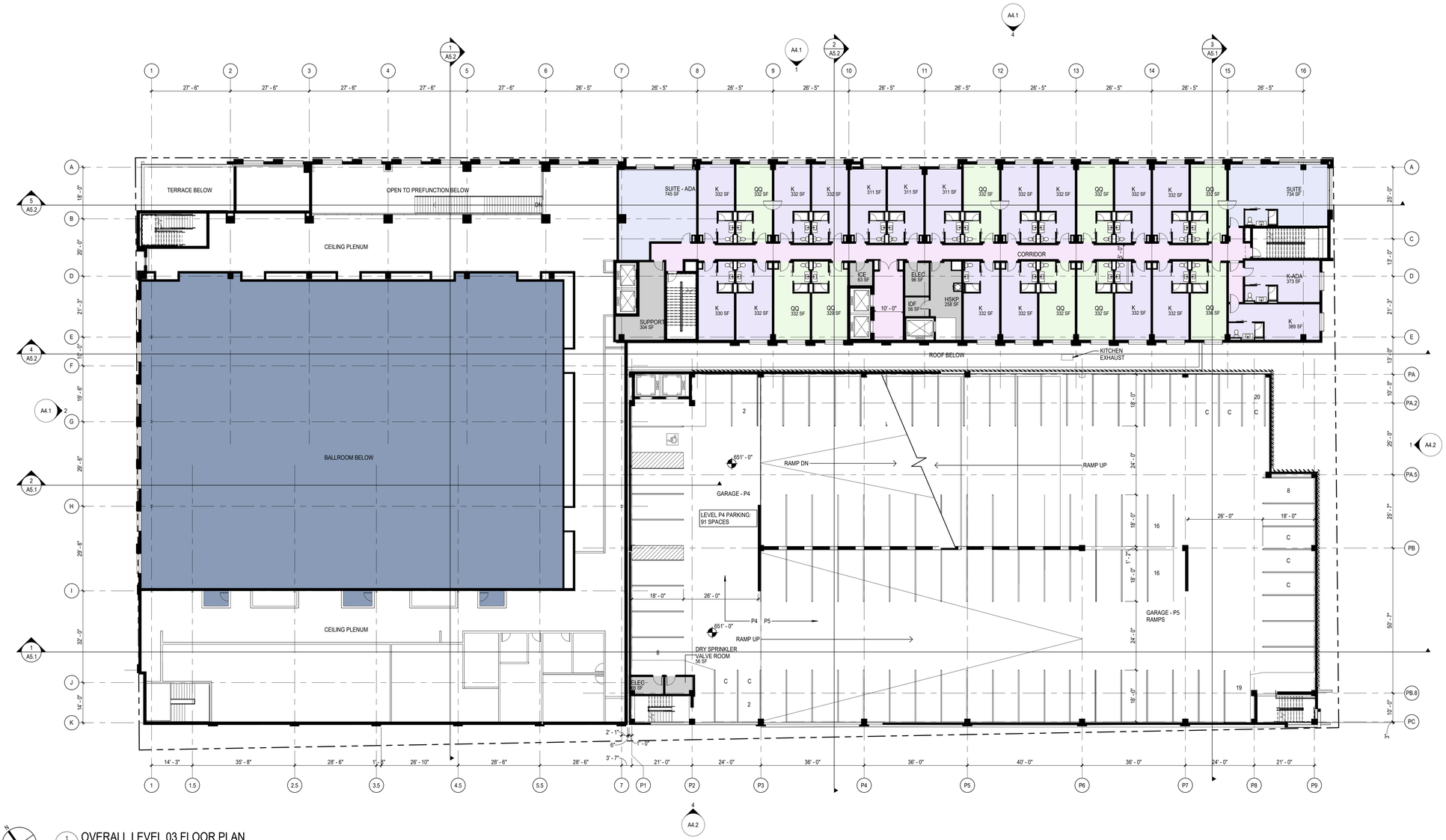
OVERALL LEVEL 02 FLOOR PLAN

A1.2



1 A1.3 OVERALL LEVEL 03 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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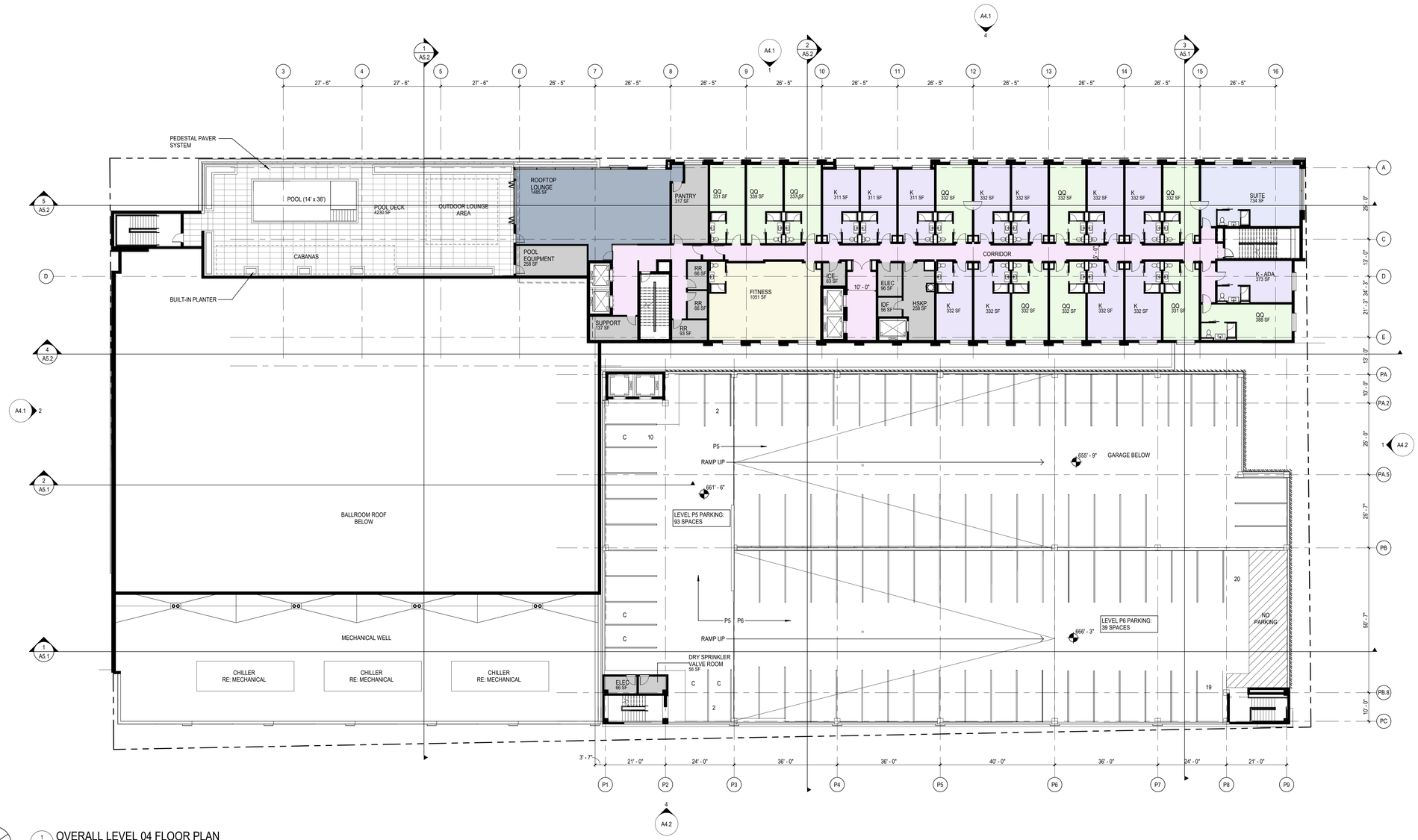
OVERALL LEVEL 03 FLOOR PLAN

A1.3



1 / A1.4 OVERALL LEVEL 04 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45

PROJECT TOTAL 526

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

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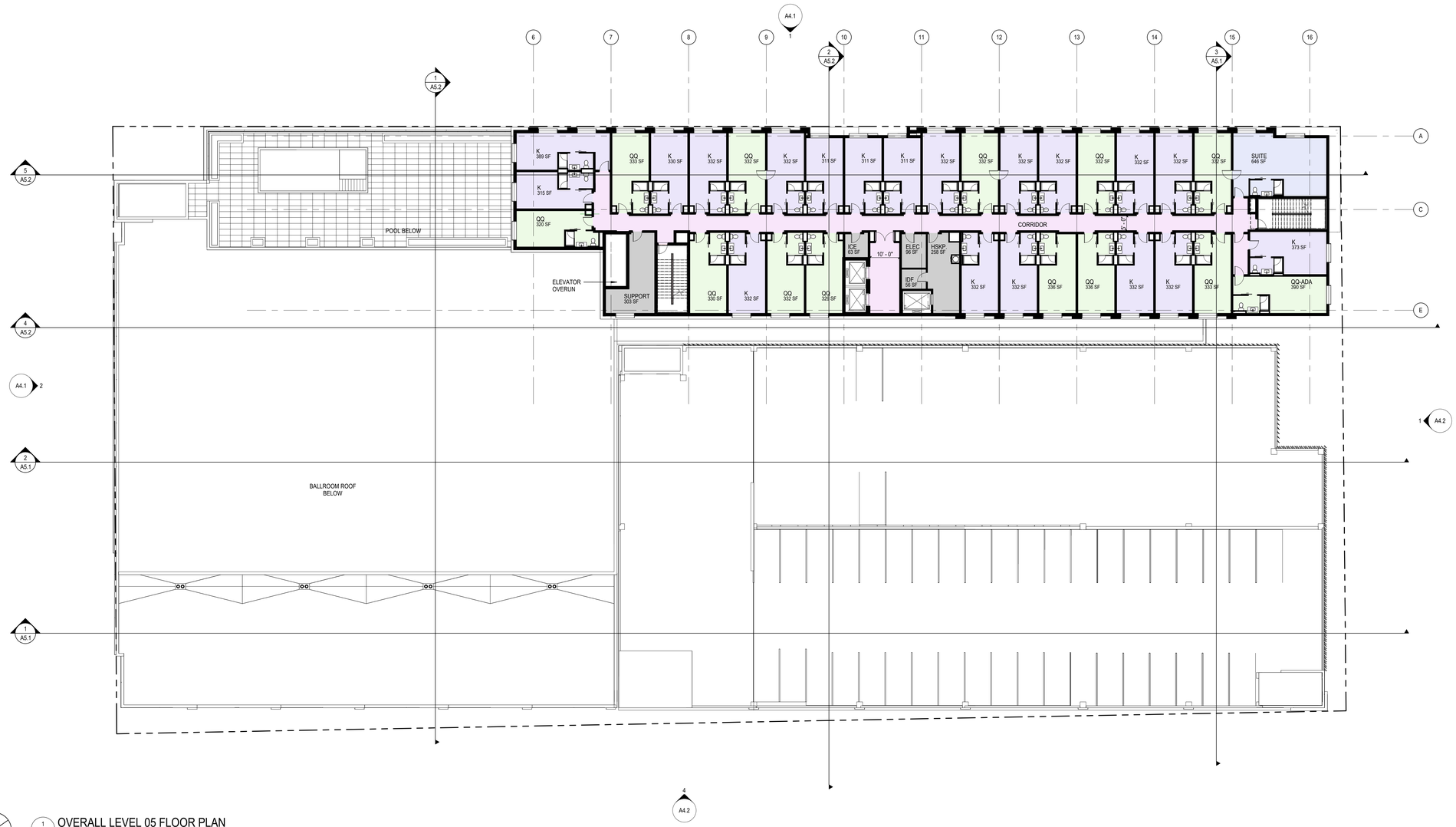
OVERALL LEVEL 04 FLOOR PLAN

A1.4



1 A1.5 OVERALL LEVEL 05 FLOOR PLAN
SCALE: 1/16" = 1'-0"

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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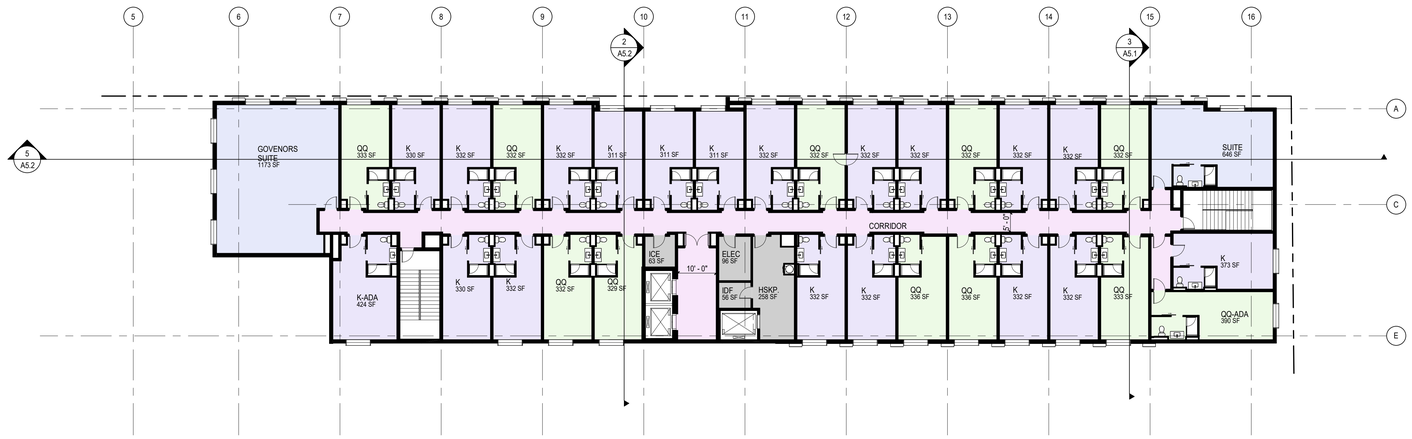
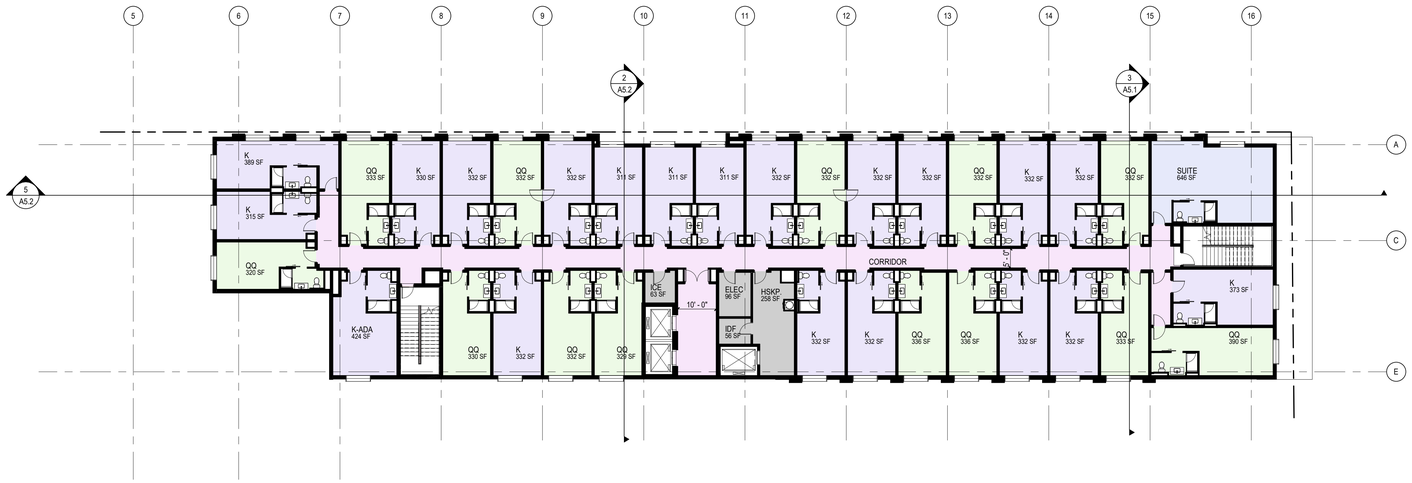
OVERALL LEVEL 05 FLOOR PLAN

A1.5



3 A1.6 LEVEL 08 FLOOR PLAN
SCALE: 1/16" = 1'-0"

2 A1.6 LEVEL 07 FLOOR PLAN
SCALE: 1/16" = 1'-0"



1 A1.6 LEVEL 06 FLOOR PLAN
SCALE: 1/16" = 1'-0"

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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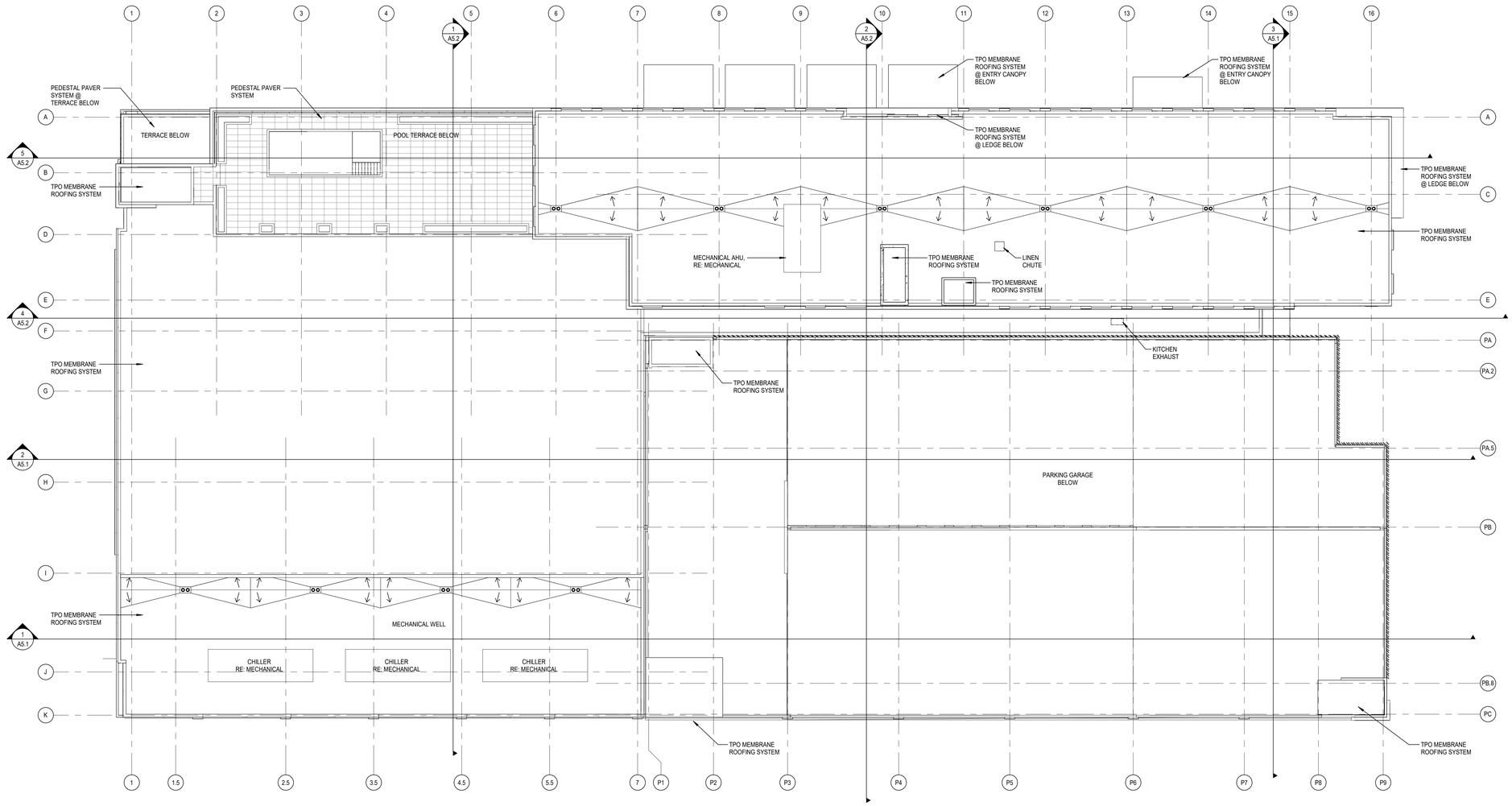
LEVEL 06, LEVEL 07 & LEVEL 08 FLOOR PLANS

A1.6



1 A1.10 OVERALL ROOF PLAN
SCALE: 1/16" = 1'-0"

ROOF PLAN GENERAL NOTES

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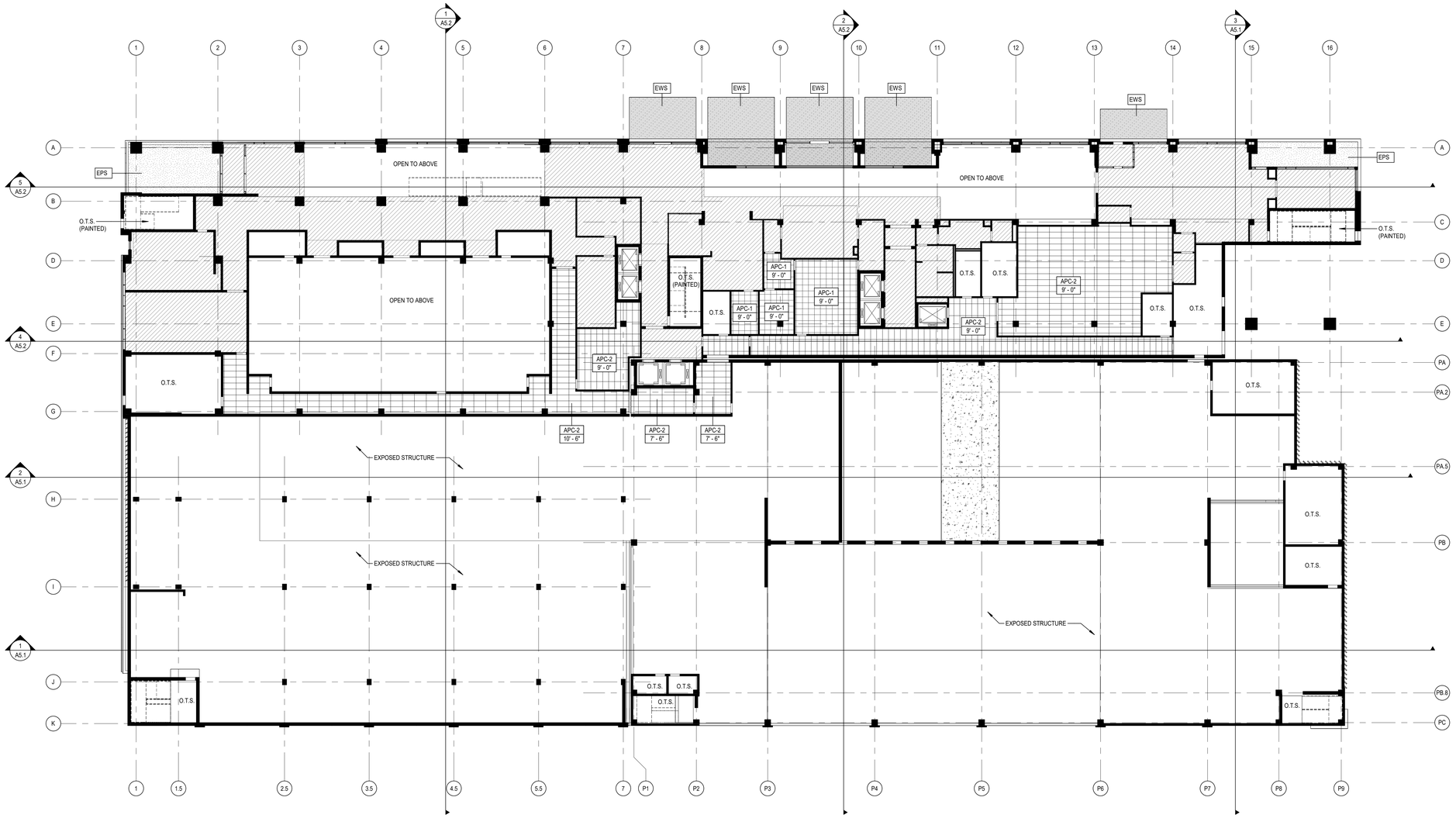
OVERALL ROOF PLAN

A1.10



1 A2.1 OVERALL REFLECTED CEILING PLAN, LEVEL 1
SCALE: 1/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFERENCE KEYNOTES

(#) SHEET NOTES

RCP LEGEND

- GWB-P - GYPSUM BOARD CEILING, PAINTED
- APC-1 - 2X2
- APC-2 - 2X2 WASHABLE SURFACE
- APC-3 - 2X4
- APC-4 - 2X4 WASHABLE SURFACE
- EXPOSED STRUCTURE (O.T.S.)
- EWS - EXTERIOR WOOD SOFFIT
- EPS - EXTERIOR PLASTER SOFFIT
- EXTERIOR EXPOSED SPRAY APPLIED INSULATION
- SUPPLY DIFFUSER @ PLENUM
- RECESSED LIGHT @ GWB
- EXHAUST
- RECESSED TROFFER
- (S) RECESSED SPEAKER
- WIRELESS ACCESS POINT
- ACCESS PANEL
  AP-1 18" X 18"
  AP-2 24" X 24"
- REFER TO INTERIORS DRAWINGS FOR CEILINGS IN THIS AREA

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OVERALL LEVEL 01 REFLECTED CEILING PLAN

A2.1

1 A2.1.5 OVERALL MEZZANINE LEVEL REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES, AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFERENCE KEYNOTES

SHEET NOTES

RCP LEGEND

- GWB-P - GYPSUM BOARD CEILING, PAINTED
- APC-1 - 2X2
- APC-2 - 2X2 WASHABLE SURFACE
- APC-3 - 2X4
- APC-4 - 2X4 WASHABLE SURFACE
- EXPOSED STRUCTURE (O.T.S.)
- EWS - EXTERIOR WOOD SOFFIT
- EPS - EXTERIOR PLASTER SOFFIT
- EXTERIOR EXPOSED SPRAY APPLIED INSULATION
- SUPPLY DIFFUSER @ PLENUM
- RECESSED LIGHT @ GWB
- EXHAUST
- RECESSED TROFFER
- (S) RECESSED SPEAKER
- WIRELESS ACCESS POINT
- ACCESS PANEL
  AP-1 18" X 18"
  AP-2 24" X 24"
- REFER TO INTERIORS DRAWINGS FOR CEILINGS IN THIS AREA

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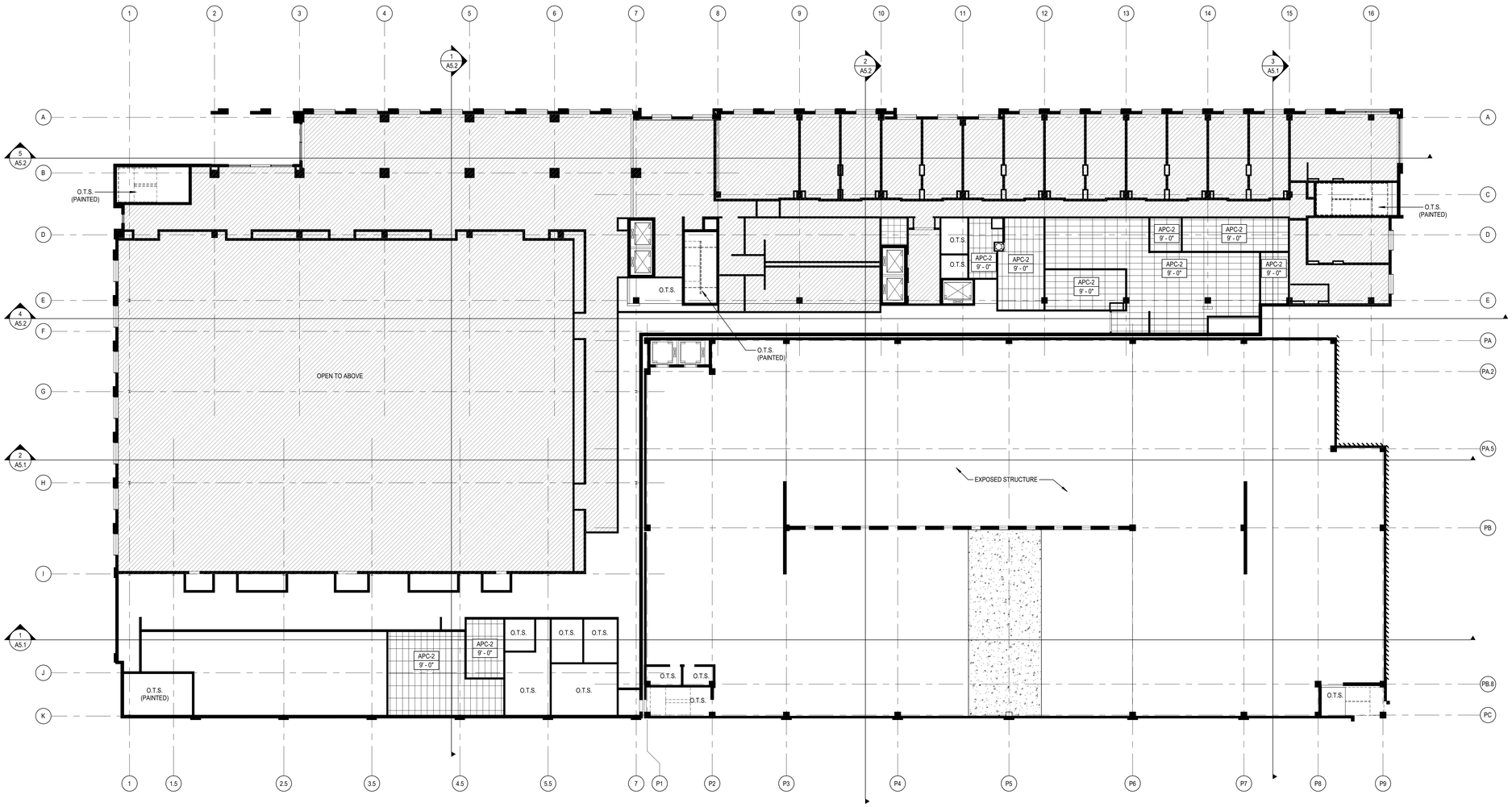
OVERALL MEZZANINE LEVEL REFLECTED CEILING PLAN

A2.1.5



1 A2.2 OVERALL LEVEL 02 REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES, AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFERENCE KEYNOTES

(#) SHEET NOTES

RCP LEGEND

- GWB-P - GYPSUM BOARD CEILING, PAINTED
- APC-1 - 2X2
- APC-2 - 2X2 WASHABLE SURFACE
- APC-3 - 2X4
- APC-4 - 2X4 WASHABLE SURFACE
- EXPOSED STRUCTURE (O.T.S.)
- EWS - EXTERIOR WOOD SOFFIT
- EPS - EXTERIOR PLASTER SOFFIT
- EXTERIOR EXPOSED SPRAY APPLIED INSULATION
- SUPPLY DIFFUSER @ PLENUM
- RECESSED LIGHT @ GWB
- EXHAUST
- RECESSED TROFFER
- (S) RECESSED SPEAKER
- WIRELESS ACCESS POINT
- ACCESS PANEL
  AP-1 18" X 18"
  AP-2 24" X 24"
- REFER TO INTERIORS DRAWINGS FOR CEILINGS IN THIS AREA

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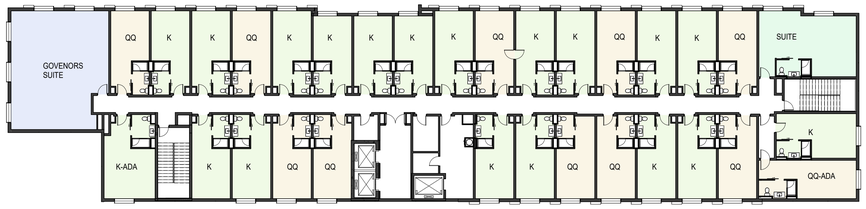
OVERALL LEVEL 02 REFLECTED CEILING PLAN

A2.2



LEVEL 08 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
GOVENORS SUITE	1
K	18
K-ADA	1
QQ	10
QQ-ADA	1
SUITE	1
KEYS: 32	

7 A3.1 LEVEL 08 GUESTROOM MATRIX PLAN
SCALE: 1" = 20'-0"

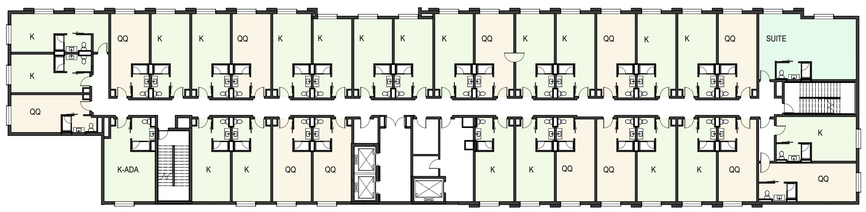
LEVEL 04 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	11
K - ADA	1
QQ	10
SUITE	1
KEYS: 23	

3 A3.1 LEVEL 04 GUESTROOM MATRIX PLAN
SCALE: 1" = 20'-0"

OVERALL KEY COUNT	
LEVEL	COUNT
LEVEL 02	16
LEVEL 03	29
LEVEL 04	23
LEVEL 05	33
LEVEL 06	34
LEVEL 07	34
LEVEL 08	32
TOTAL: 201	

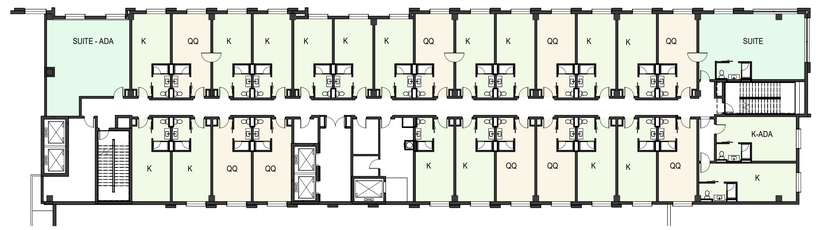
GUESTROOM SCHEDULE	
ROOM TYPE	# OF KEYS
GOVERNOR'S SUITE	1
K	119
Q/Q	72
SUITE	9
TOTAL KEYS: 201	

GUESTROOM RATIO		
ROOM TYPE	COUNT	PERCENTAGE
GOVERNOR'S SUITE	1	0%
K	119	59%
Q/Q	72	36%
SUITE	9	4%
	201	



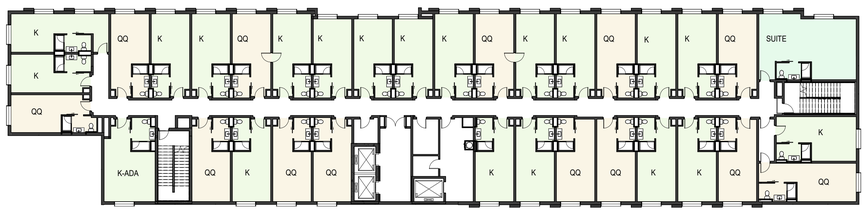
LEVEL 07 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	20
K-ADA	1
QQ	12
SUITE	1
KEYS: 34	

6 A3.1 LEVEL 07 GUESTROOM MATRIX PLAN
SCALE: 1" = 20'-0"



LEVEL 03 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	17
K-ADA	1
QQ	9
SUITE	1
SUITE - ADA	1
KEYS: 29	

2 A3.1 LEVEL 03 GUESTROOM MATRIX PLAN
SCALE: 1" = 20'-0"



LEVEL 06 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	19
K-ADA	1
QQ	13
SUITE	1
KEYS: 34	

5 A3.1 LEVEL 06 GUESTROOM MATRIX PLAN
SCALE: 1" = 20'-0"

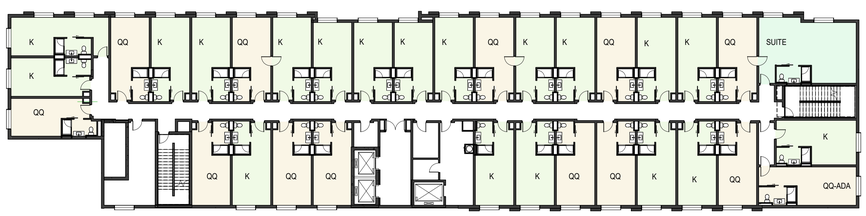
LEVEL 02 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	8
K-ADA	1
QQ	5
SUITE	2
KEYS: 16	

1 A3.1 LEVEL 02 GUESTROOM MATRIX PLAN
SCALE: 1" = 20'-0"

		REQUIRED
	TOTAL # OF ROOMS WITH MOBILITY FEATURES (WITHOUT ROLL-IN SHOWERS):	6
	TOTAL # OF ROOMS WITH MOBILITY FEATURES (WITH ROLL-IN SHOWERS):	2
	TOTAL # OF ROOMS WITH COMM. FEATURES:	17

AT LEAST ONE ROOM REQUIRED TO PROVIDE MOBILITY FEATURES SHALL ALSO PROVIDE COMMUNICATION FEATURES. BUT NOT MORE THAN 10% OF ROOMS WITH MOBILITY FEATURES MAY BE USED TO SATISY COMMUNICATION REQUIREMENTS.

ICC A117.1 - 2017 SEE SECTION 224.2, 224.4, AND 224.5



LEVEL 05 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	19
QQ	12
QQ-ADA	1
SUITE	1
KEYS: 33	

4 A3.1 LEVEL 05 GUESTROOM MATRIX PLAN
SCALE: 1" = 20'-0"

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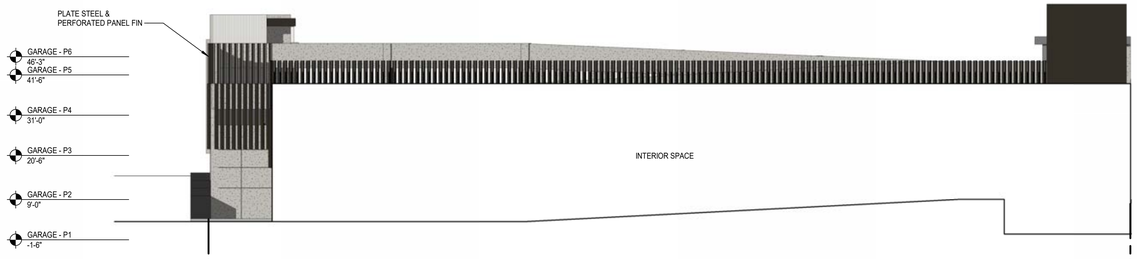
GUESTROOM MATRIX

A3.1

2 A4.1 WEST ELEVATION
SCALE: 1/16" = 1'-0"



4 A4.1 NORTH ELEVATION - GARAGE
SCALE: 1/16" = 1'-0"

1 A4.1 NORTH ELEVATION
SCALE: 1/16" = 1'-0"

MATERIAL LEGEND

- LIMESTONE VENEER
- FIBER CEMENT PANEL - FLUTED
- FIBER CEMENT PANEL 1
- FIBER CEMENT PANEL 2
- METAL PANEL - ACM
- GLAZING
- PRE-CAST CONCRETE
- RIBBED CONCRETE PLANTER
- WOOD PANEL

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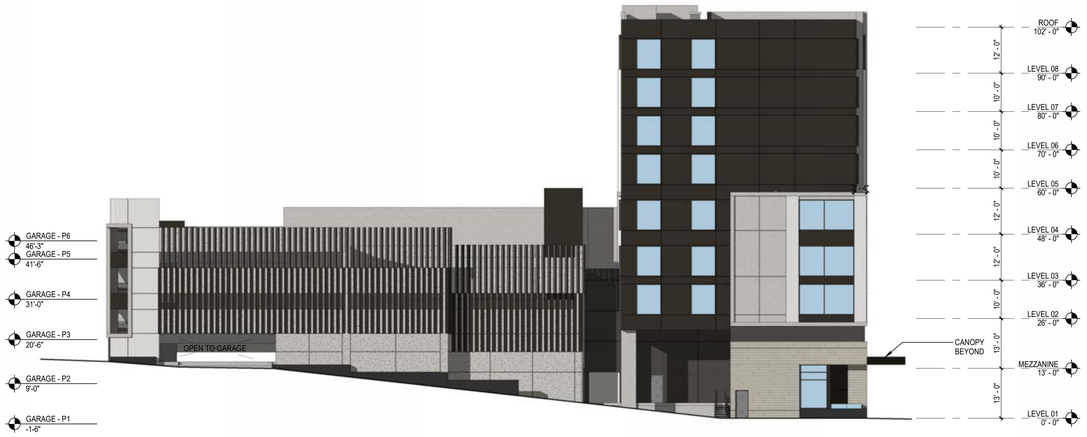
EXTERIOR ELEVATIONS

A4.1



1 / A4.2 EAST ELEVATION
SCALE: 1/16" = 1'-0"

4 / A4.2 SOUTH ELEVATION
SCALE: 1/16" = 1'-0"

MATERIAL LEGEND

- LIMESTONE VENEER
- FIBER CEMENT PANEL - FLUTED
- FIBER CEMENT PANEL 1
- FIBER CEMENT PANEL 2
- METAL PANEL - ACM
- GLAZING
- PRE-CAST CONCRETE
- RIBBED CONCRETE PLANTER
- WOOD PANEL

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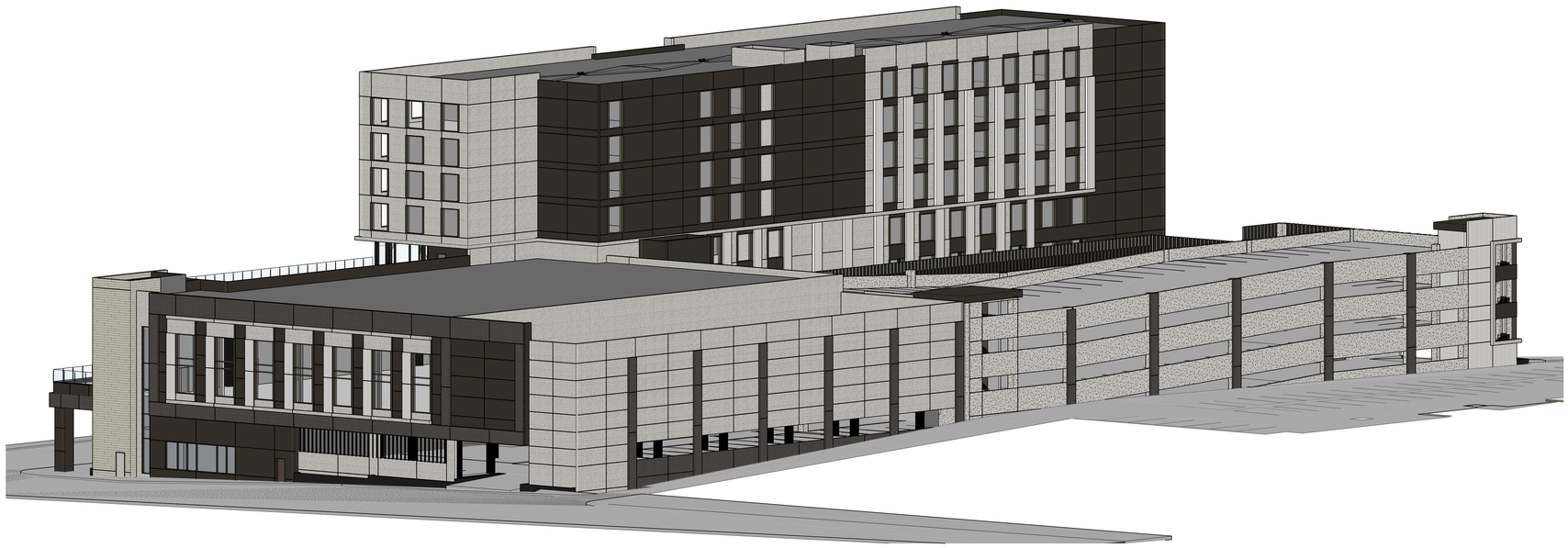
EXTERIOR ELEVATIONS

A4.2

1 / A4.3 Orthographic - N
SCALE:



2 / A4.3 Orthographic - W
SCALE:

MATERIAL LEGEND

- LIMESTONE VENEER
- FIBER CEMENT PANEL - FLUTED
- FIBER CEMENT PANEL 1
- FIBER CEMENT PANEL 2
- METAL PANEL - ACM
- GLAZING
- PRE-CAST CONCRETE
- RIBBED CONCRETE PLANTER
- WOOD PANEL

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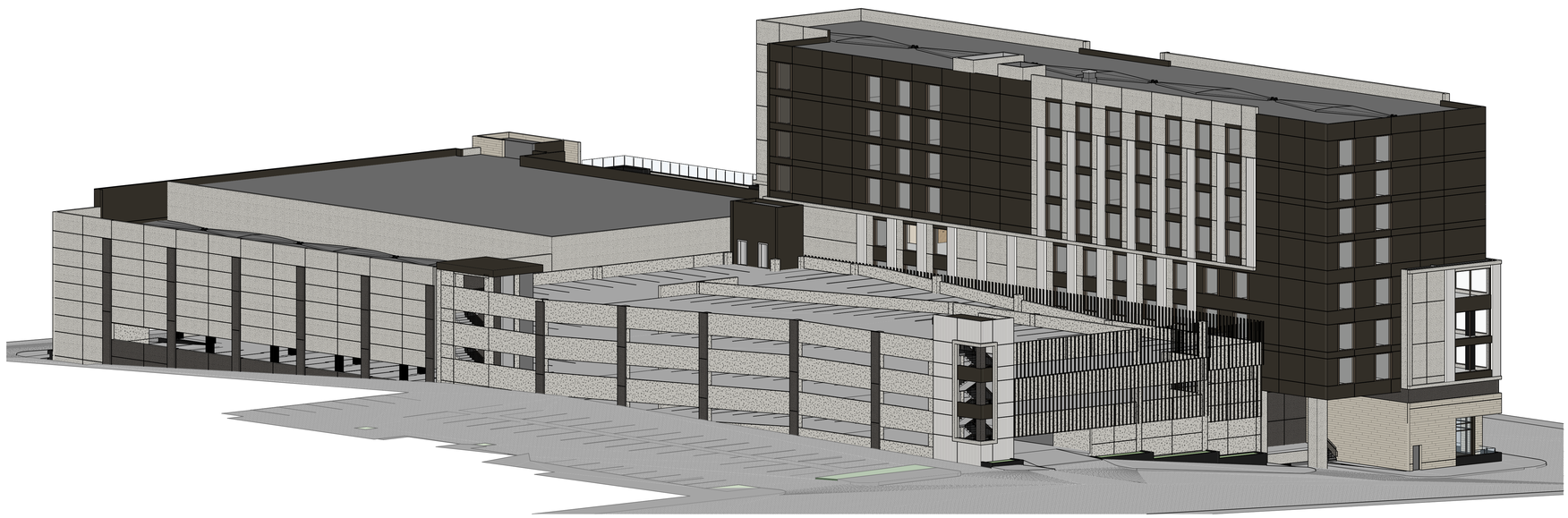
EXTERIOR VIEWS

A4.3

1 / A4.4 Orthographic - E
SCALE:



2 / A4.4 Orthographic - S
SCALE:

MATERIAL LEGEND

- LIMESTONE VENEER
- FIBER CEMENT PANEL - FLUTED
- FIBER CEMENT PANEL 1
- FIBER CEMENT PANEL 2
- METAL PANEL - ACM
- GLAZING
- PRE-CAST CONCRETE
- RIBBED CONCRETE PLANTER
- WOOD PANEL

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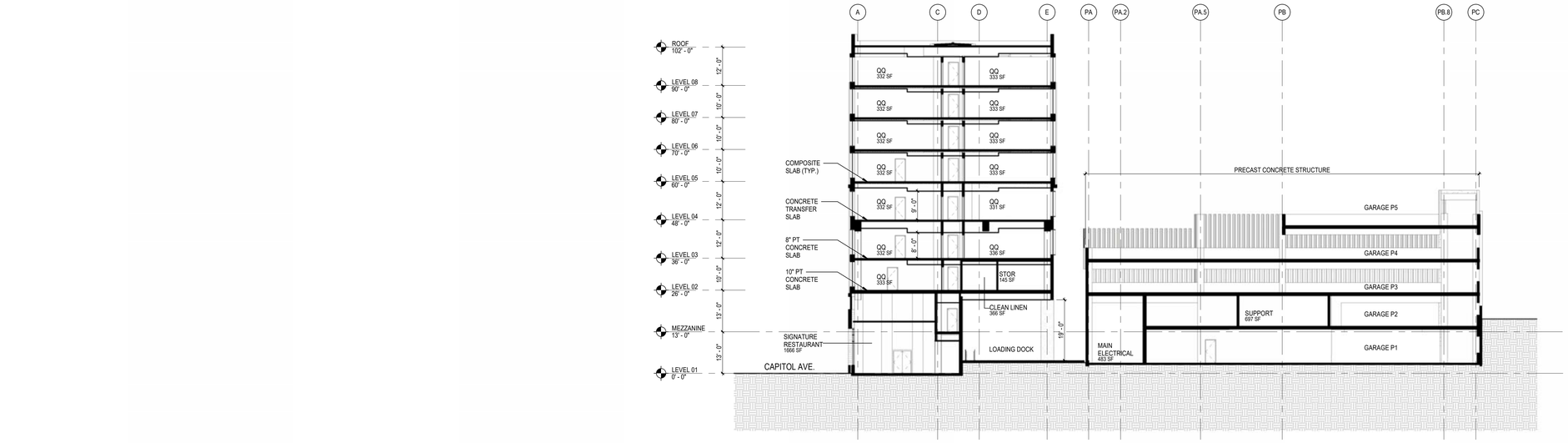
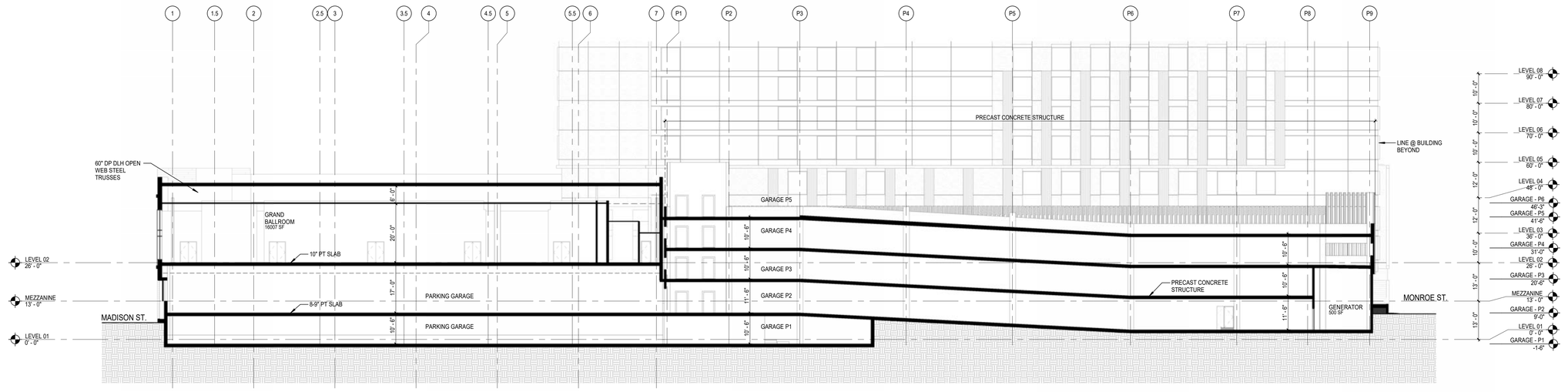
EXTERIOR VIEWS

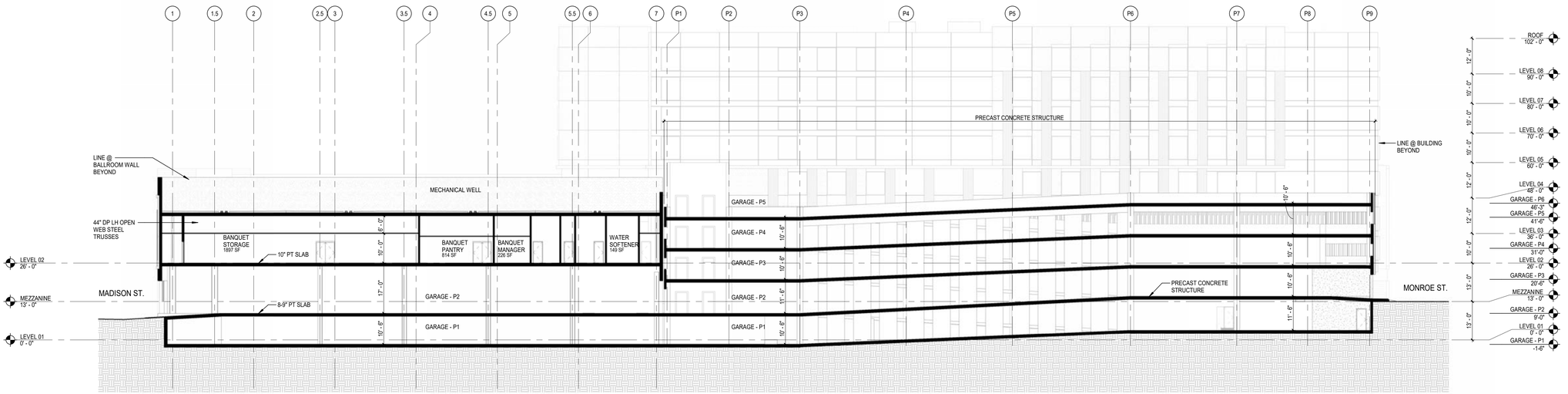
A4.4



3 A5.1 BUILDING SECTION THROUGH HOTEL TOWER LOOKING EAST 2
SCALE: 1/16" = 1'-0"



2 A5.1 BUILDING SECTION THROUGH PARKING GARAGE LOOKING NORTH 2
SCALE: 1/16" = 1'-0"



1 A5.1 BUILDING SECTION THROUGH PARKING GARAGE LOOKING NORTH
SCALE: 1/16" = 1'-0"

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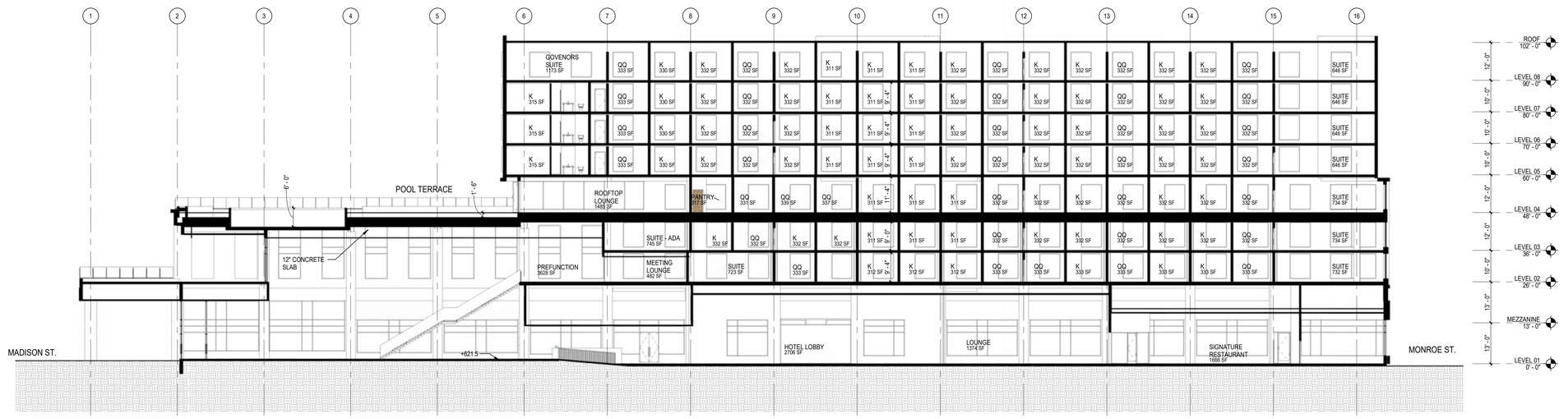
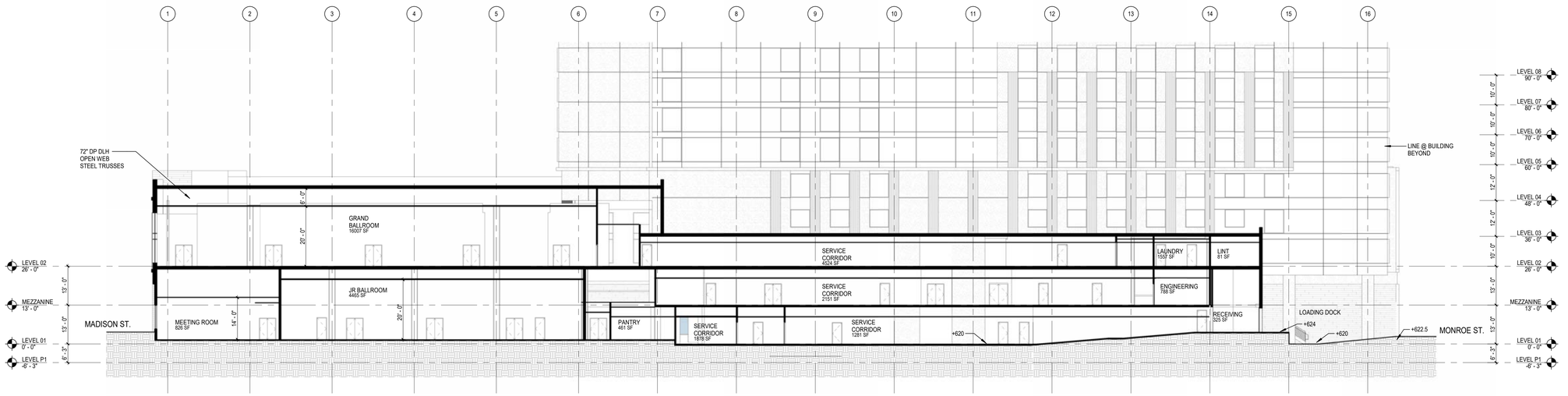
BUILDING SECTIONS

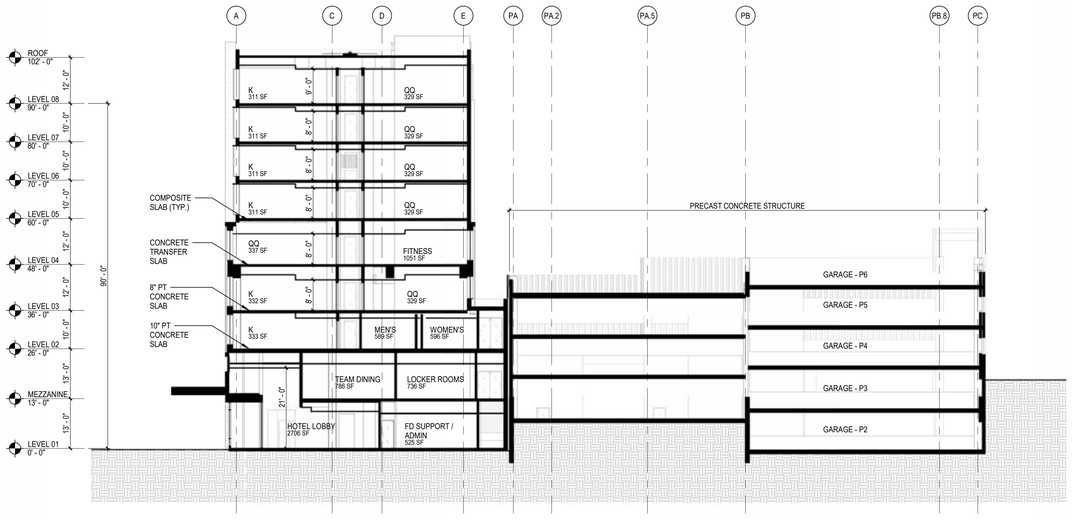
A5.1



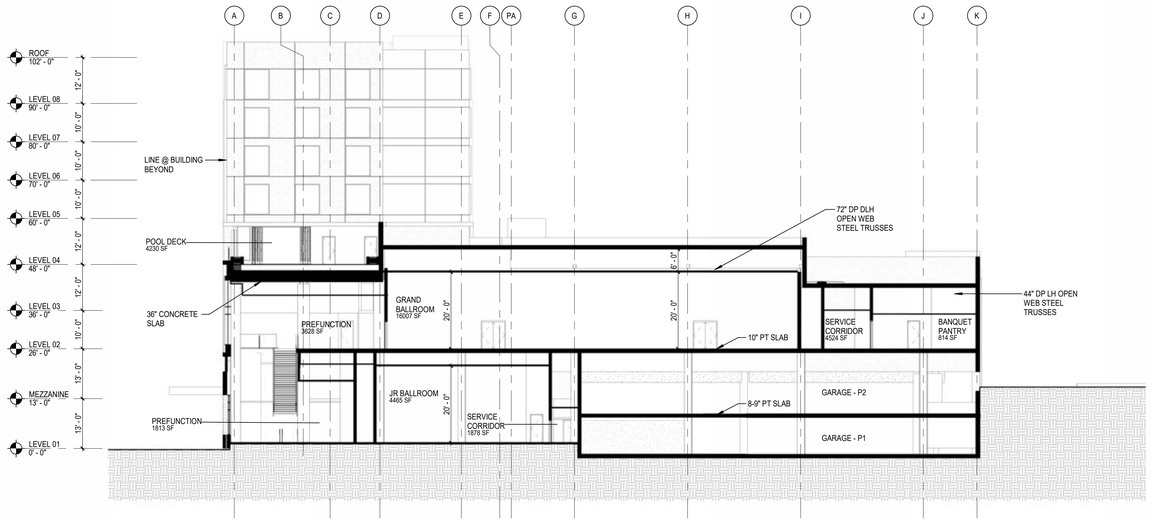
5 A5.2 BUILDING SECTION THROUGH HOTEL LOBBY LOOKING NORTH
SCALE: 1/16" = 1'-0"



4 A5.2 BUILDING SECTION THROUGH LOADING DOCK LOOKING NORTH
SCALE: 1/16" = 1'-0"



2 A5.2 BUILDING SECTION THROUGH HOTEL TOWER LOOKING EAST
SCALE: 1/16" = 1'-0"



1 A5.2 BUILDING SECTION THROUGH BALLROOM LOOKING EAST
SCALE: 1/16" = 1'-0"

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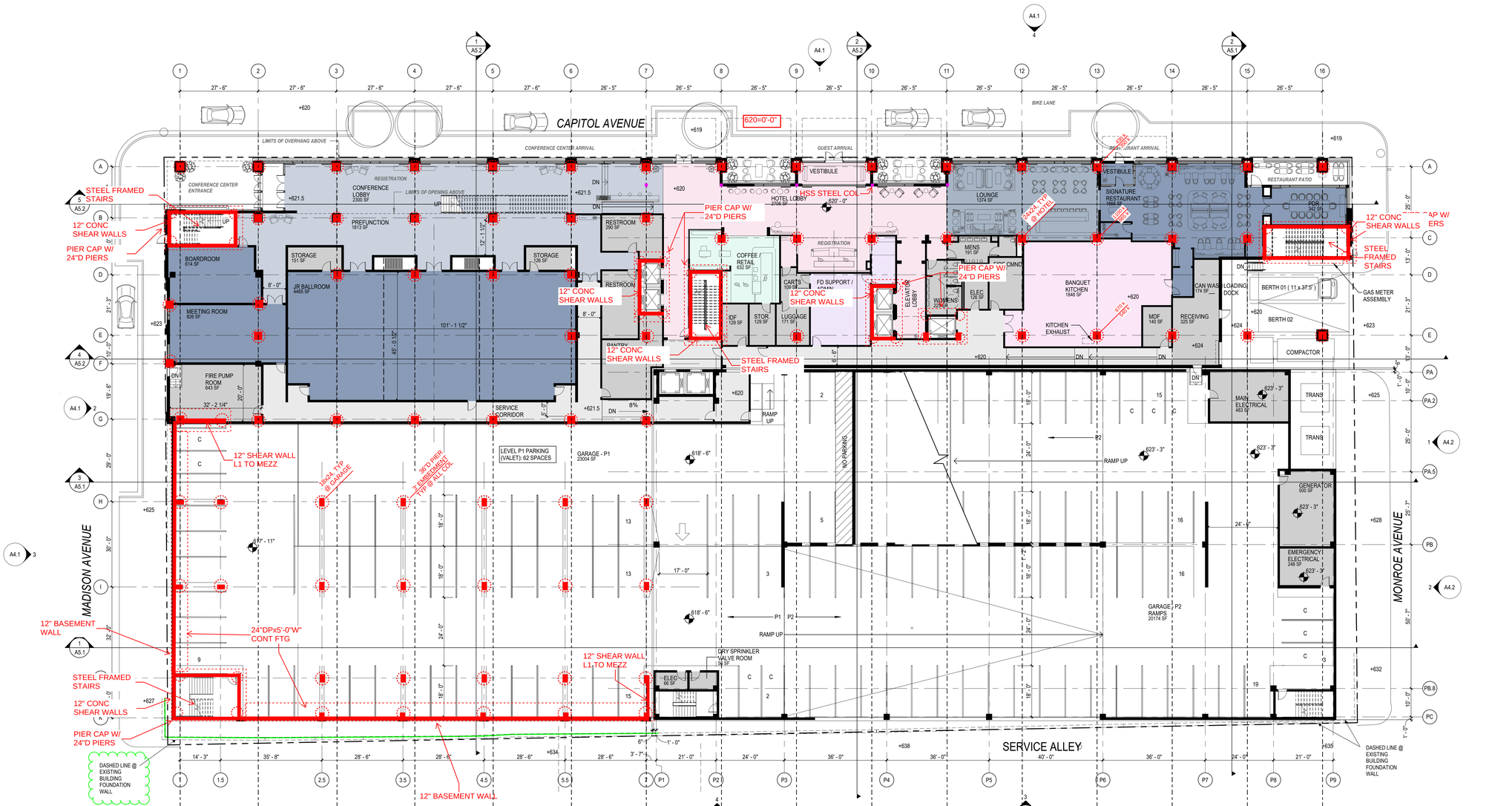
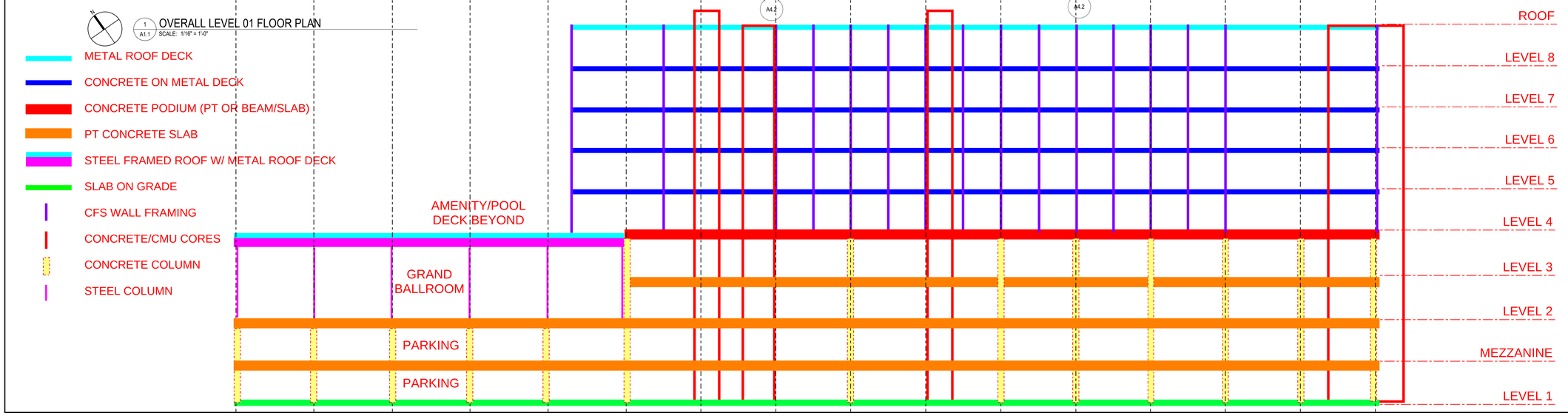
BUILDING SECTIONS

A5.2



1 A1.1 OVERALL LEVEL 01 FLOOR PLAN
SCALE: 1/16" = 1'-0"



GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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BY: NR DATE: 9/17/2025

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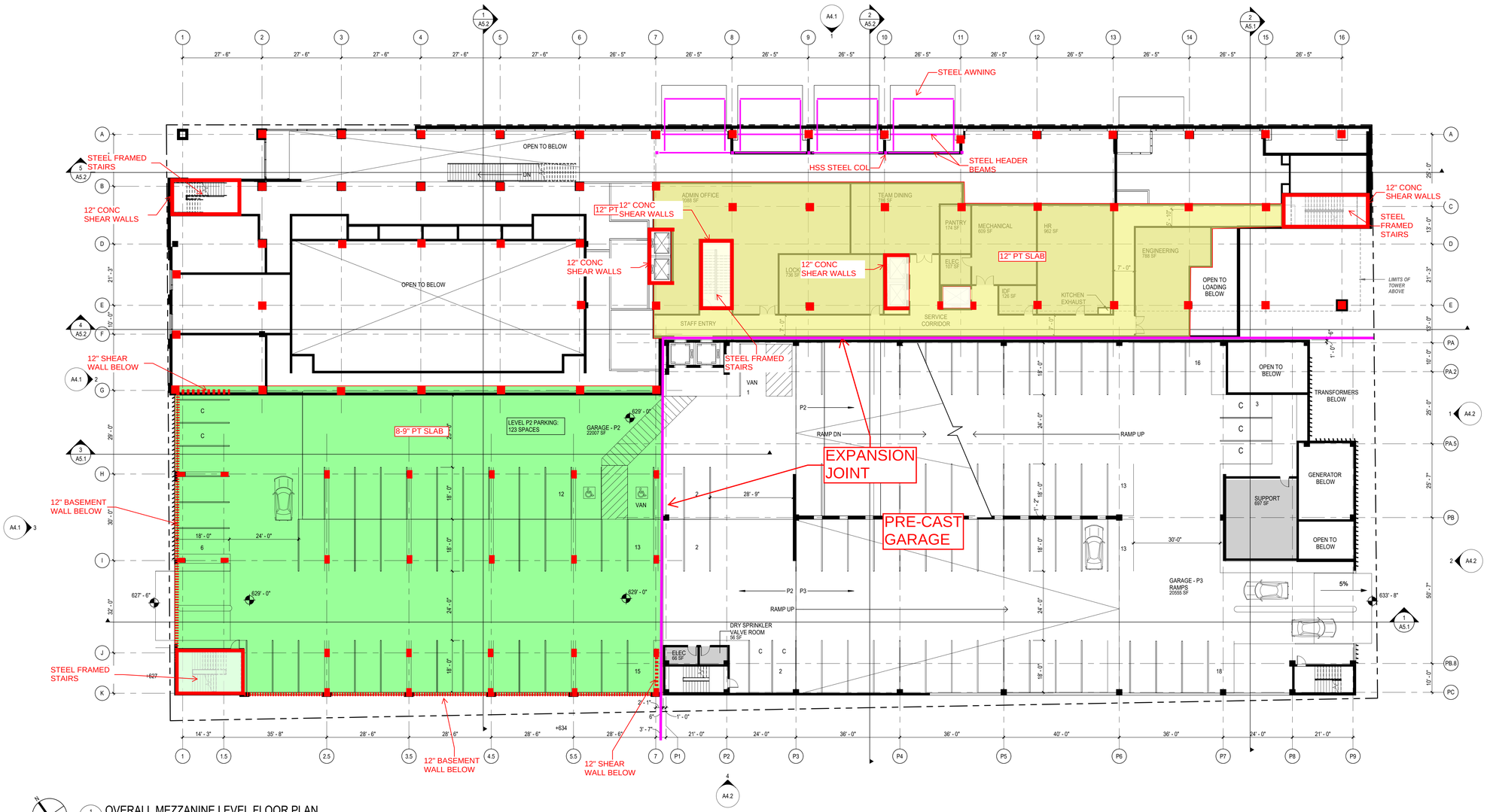
OVERALL LEVEL 01 STRUCTURAL FOUNDATION & FRAMING PLAN

S1.1



1 OVERALL MEZZANINE LEVEL FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45

PROJECT TOTAL 526

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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DATE: 9/17/2025
BY: NR

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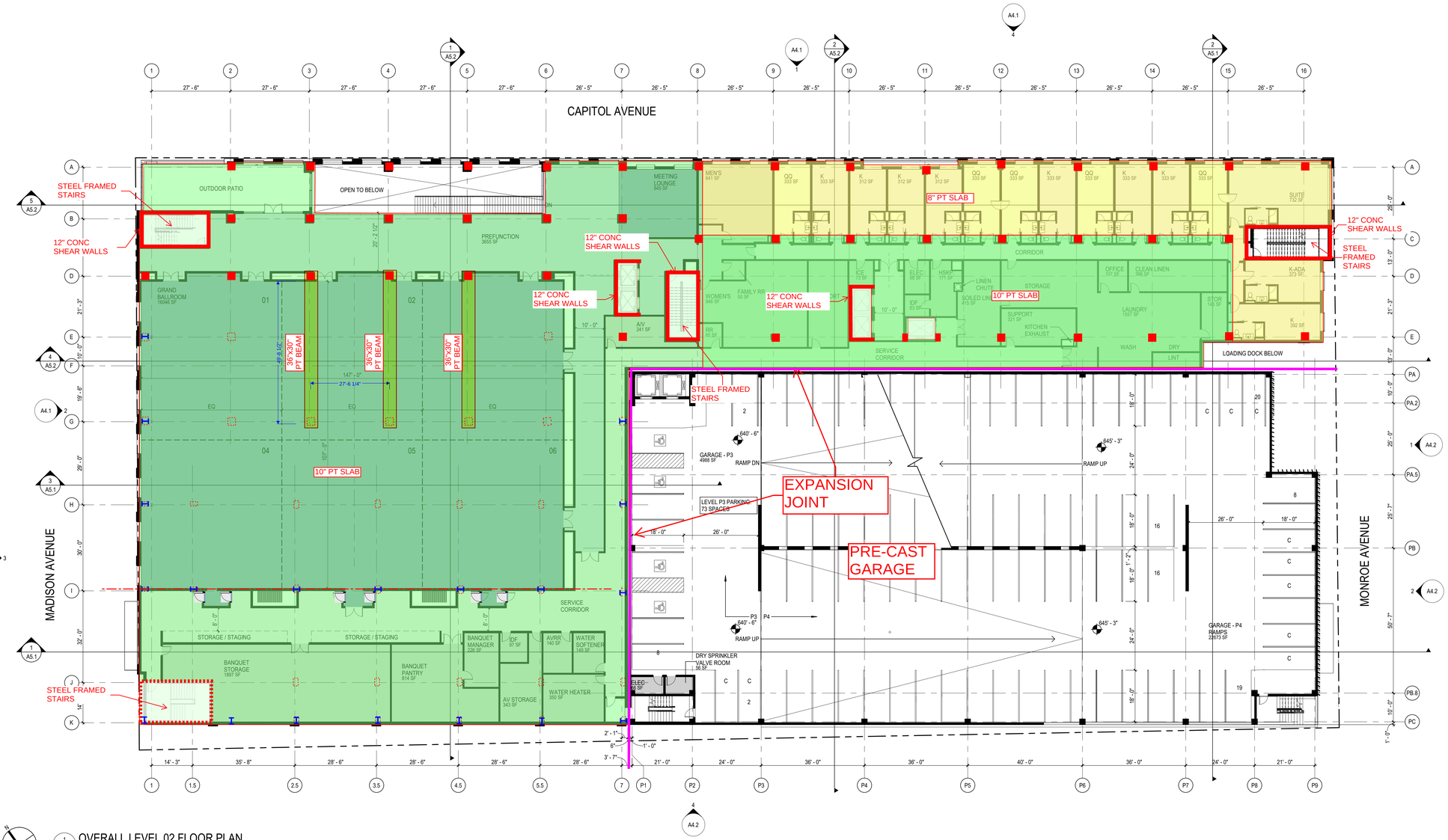
OVERALL MEZZANINE LEVEL STRUCTURAL FRAMING PLAN

S1.1.5



1 / A1.2 OVERALL LEVEL 02 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

LEVEL 02 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 02	
A509	QQ
A510	K
A511	K
A512	K
A513	QQ
A514	QQ
A515	K
A516	QQ
A517	K
A518	K
A519	QQ
A520	SUITE
A522	K-ADA
A523	K
A761	K
LEVEL 02: 15	

LEVEL 02 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	8
K-ADA	1
QQ	5
SUITE	1
KEYS: 15	

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

OVERALL KEY COUNT	
LEVEL	COUNT
LEVEL 02	15
LEVEL 03	29
LEVEL 04	23
LEVEL 05	33
LEVEL 06	34
LEVEL 07	34
LEVEL 08	32
TOTAL: 200	

GUESTROOM SCHEDULE	
ROOM TYPE	# OF KEYS
GOVERNOR'S SUITE	1
K	107
Q/Q	80
SUITE	12
TOTAL KEYS: 200	

GUESTROOM RATIO		
ROOM TYPE	COUNT	PERCENTAGE
GOVERNOR'S SUITE	1	1%
K	107	54%
Q/Q	80	40%
SUITE	12	6%
	200	

GUESTROOM CONNECTOR RATIO		
CONNECTOR	COUNT	PERCENTAGE
	158	79%
	10	5%
PROVIDED	32	16%
	200	

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BY: NR DATE: 9/17/2025

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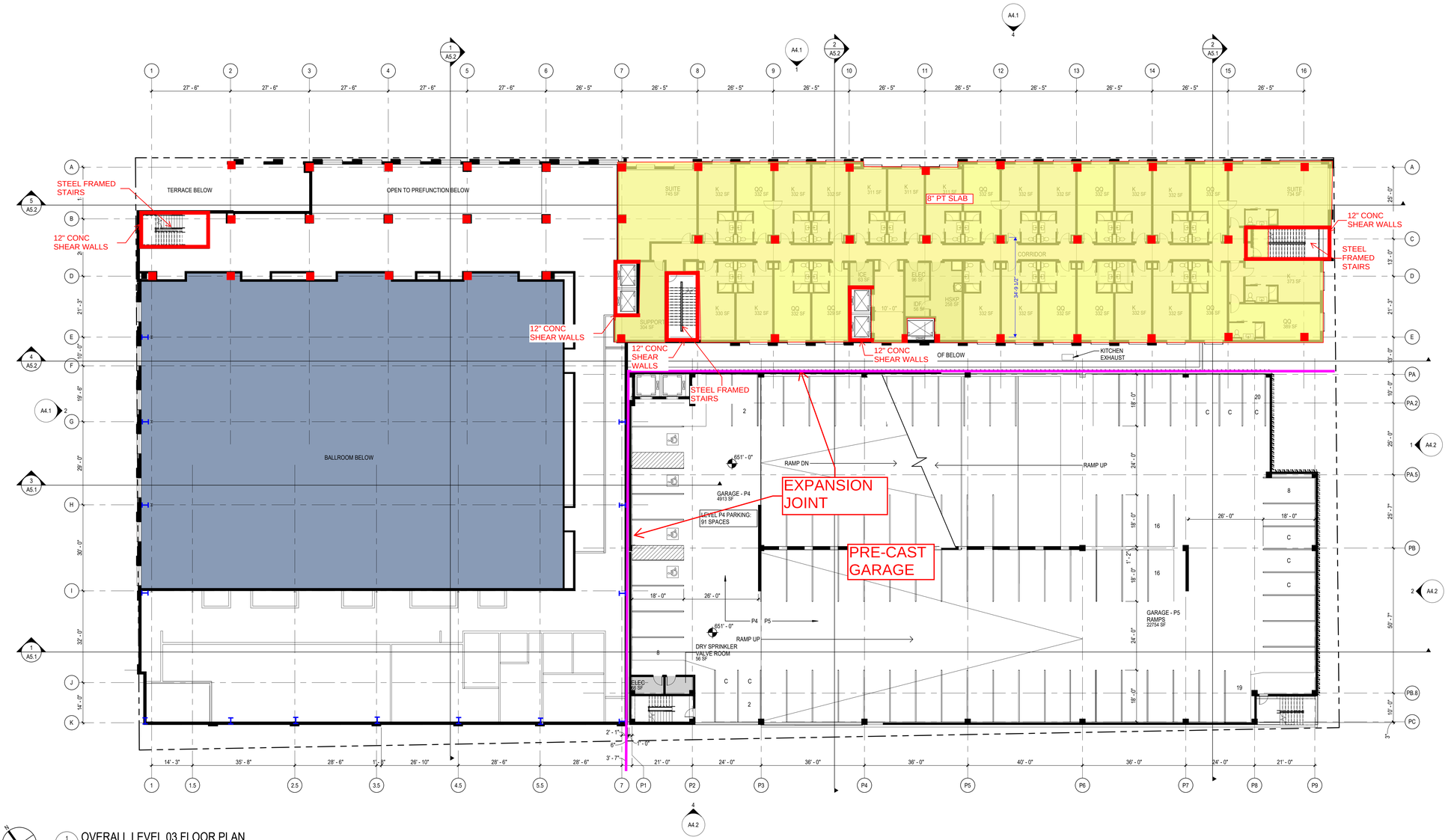
OVERALL LEVEL 02 STRUCTURAL FRAMING PLAN

S1.2



1 A1.3 OVERALL LEVEL 03 FLOOR PLAN

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

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

LEVEL 03 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 03	
A481	K
A482	QQ
A483	K
A484	K
A485	K
A486	K
A487	K
A488	QQ
A489	K
A490	K
A491	QQ
A492	K
A493	K
A494	QQ
A495	SUITE
A497	K
A498	QQ
A506	QQ
A507	QQ
A508	K
A558	K
A559	K
A560	QQ
A561	K
A564	K
A565	QQ
A566	QQ
A661	K
A724	SUITE
LEVEL 03: 29	

LEVEL 03 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	17
QQ	10
SUITE	2
KEYS: 29	

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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Thornton Tomasetti
BY: NR DATE: 9/17/2025

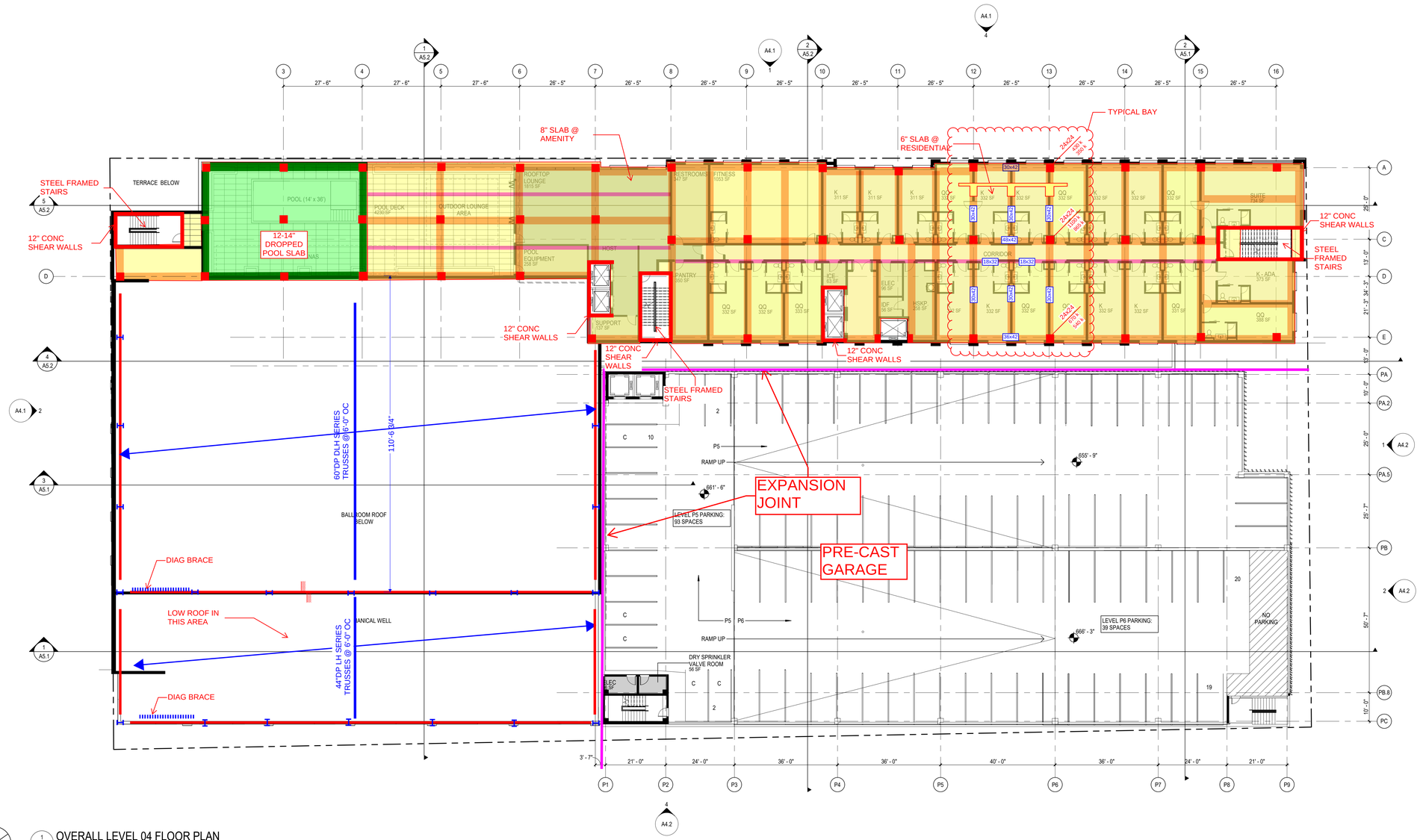
JEFFERSON CITY CONFERENCE CENTER HOTEL
GARFIELD PUBLIC / PRIVATE LLC
220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

OVERALL LEVEL 03 STRUCTURAL FRAMING PLAN

S1.3



1 A1.4 OVERALL LEVEL 04 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481
SITE	45
PROJECT TOTAL	526

LEVEL 04 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 04	
A456	SUITE
A457	K
A458	K - ADA
A459	QQ
A460	QQ
A461	QQ
A467	K
A468	QQ
A469	K
A470	K
A471	K
A472	QQ
A473	K
A474	K
A475	QQ
A476	K
A477	K
A478	QQ
A554	K
A555	QQ
A556	QQ
A557	K
A613	QQ
LEVEL 04: 23	

LEVEL 04 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	11
K - ADA	1
QQ	10
SUITE	1
KEYS: 23	

OPTION 1- BEAM & SLAB
6" ONE-WAY SLAB
42" DEEP MILD REINF BEAMS

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

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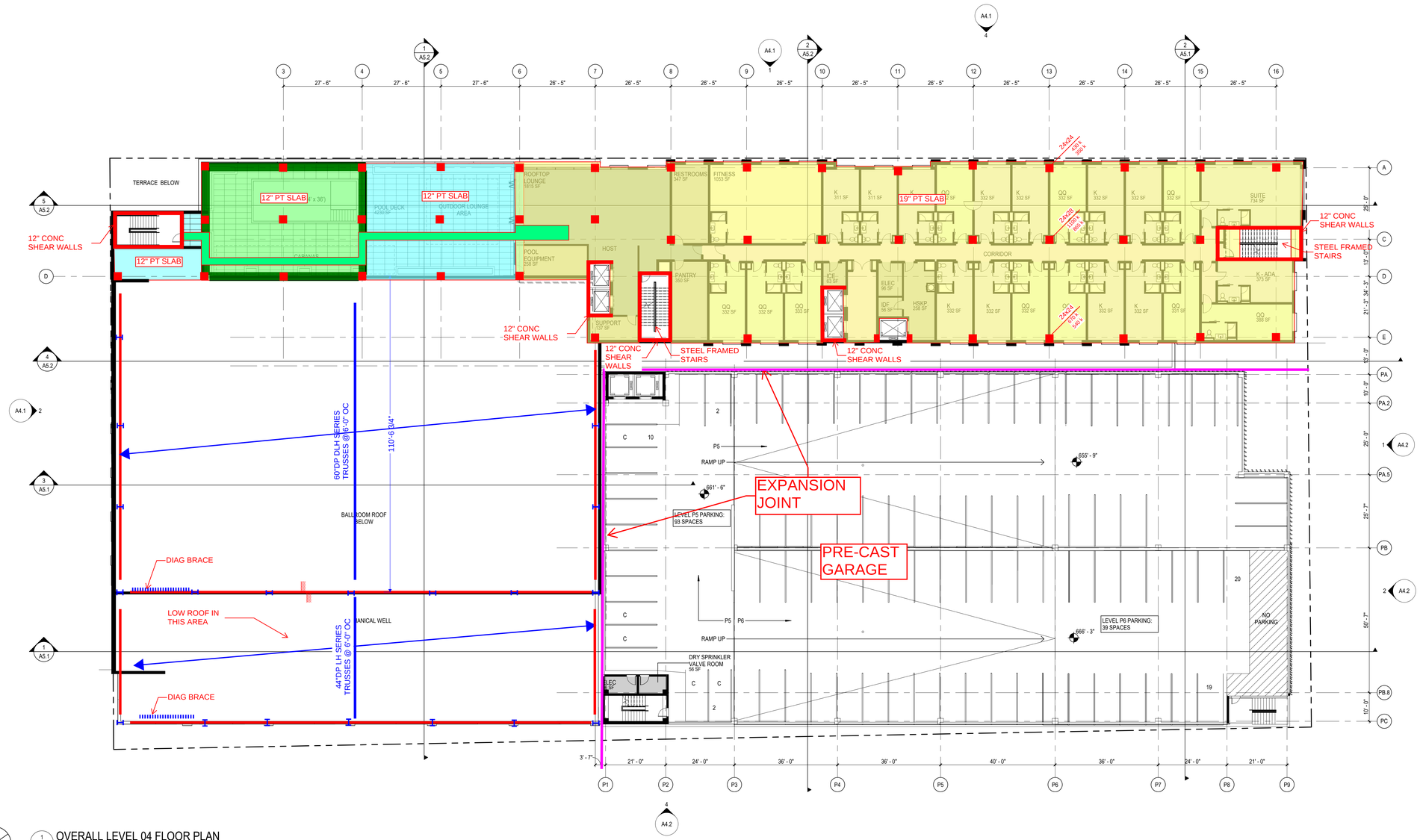
OVERALL LEVEL 04 STRUCTURAL FRAMING PLAN

S1.4



1 A1.4 OVERALL LEVEL 04 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481
SITE	45
PROJECT TOTAL	526

LEVEL 04 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 04	
A456	SUITE
A457	K
A458	K - ADA
A459	QQ
A460	QQ
A461	QQ
A467	K
A468	QQ
A469	K
A470	K
A471	K
A472	QQ
A473	K
A474	K
A475	QQ
A476	K
A477	K
A478	QQ
A554	K
A555	QQ
A556	QQ
A557	K
A613	QQ
LEVEL 04: 23	

LEVEL 04 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	11
K - ADA	1
QQ	10
SUITE	1
KEYS: 23	

OPTION 2 - TWO-WAY P-T FLAT PLATE:
19" THK 2-WAY FLAT PLATE P-T

GENERAL ARCHITECTURAL NOTES

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OVERALL LEVEL 04 STRUCTURAL FRAMING PLAN

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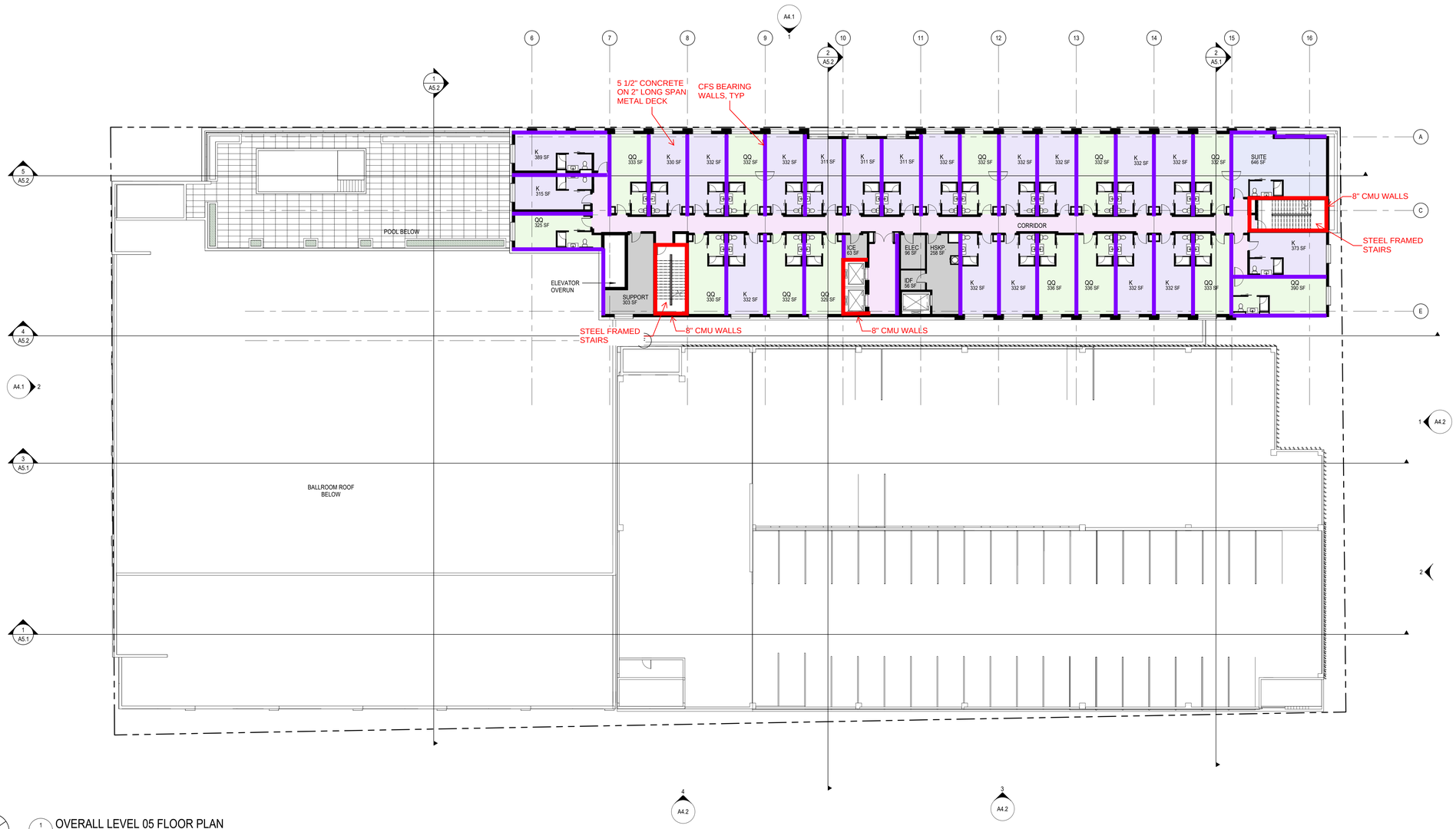

1 A1.5 OVERALL LEVEL 05 FLOOR PLAN
SCALE: 1/16" = 1'-0"

LEVEL 05 GUESTROOM SCHEDULE BY ROOM

ROOM NUMBER	ROOM TYPE
LEVEL 05	
A621	K
A622	QQ
A623	K
A624	K
A625	QQ
A626	K
A627	K
A628	K
A629	K
A630	K
A631	QQ
A632	K
A633	K
A634	QQ
A635	K
A636	K
A637	QQ
A638	SUITE
A640	QQ
A641	K
A642	QQ
A643	QQ
A645	K
A646	K
A647	QQ
A648	K
A649	QQ
A651	QQ
A653	K
A654	K
A655	QQ
A656	QQ
A657	K
LEVEL 05: 33	

LEVEL 05 GUESTROOM SCHEDULE BY TYPE

ROOM TYPE	COUNT
K	19
QQ	13
SUITE	1
KEYS: 33	

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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OVERALL LEVEL 05 STRUCTURAL FRAMING PLAN

S1.5

GENERAL NOTES (PARKING GARAGE)

DIVISION 01 - GENERAL REQUIREMENTS

1.1 ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, LOCAL ZONING ORDINANCES AND FIRE CODES, INCLUDING THE FOLLOWING:

A. CITY OF JEFFERSON, MISSOURI CODE OF ORDINANCES
B. INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION, AS AMENDED IN THE CITY OF JEFFERSON CODE OF ORDINANCES.

1.2 SPECIAL INSPECTIONS

A. THE OWNER WILL ENGAGE ONE OR MORE QUALIFIED SPECIAL INSPECTION AGENCIES THAT ARE INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED. ALL SPECIAL INSPECTIONS AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE CODES LISTED IN ITEM 1.1 AND SPEC 01 45 34.
B. SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL BUILDING OFFICIAL. SPECIAL INSPECTIONS SHALL NOT RELIEVE THE OWNER AND CONTRACTOR FROM REQUESTING THE BUILDING OFFICIAL'S INSPECTIONS REQUIRED BY IBC SECTION 110.
C. SPECIAL INSPECTORS SHALL BE GIVEN PROPER NOTICE AND ACCESS TO THE SITE TO PERFORM TESTING AND INSPECTION AS NECESSARY. CONSTRUCTION OR WORK THAT REQUIRES SPECIAL INSPECTION OR TESTING SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS OR TESTS.
D. REQUIRED CATEGORIES OF SPECIAL INSPECTIONS (IBC SECTION 1705):
   1. STEEL CONSTRUCTION
   2. CONCRETE CONSTRUCTION
   3. MASONRY CONSTRUCTION
   4. SOILS
   5. CAST-IN-PLACE DEEP FOUNDATIONS
   6. INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC.
E. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO VERIFY THAT IT CONFORMS TO THE CONTRACT DOCUMENTS.
   2. THE SPECIAL INSPECTOR SHALL NOT AUTHORIZE OR APPROVE DEVIATIONS FROM THE CONTRACT DOCUMENTS. ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE INITIATED BY THE CONTRACTOR VIA A WRITTEN REQUEST FOR INFORMATION (RFI) AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK.
   3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND TESTS.
   4. SPECIAL INSPECTORS SHALL SUBMIT WRITTEN INSPECTION AND TEST REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD. REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED IS IN CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF CORRECTIONS ARE NOT MADE, THE BUILDING OFFICIAL AND REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL BE NOTIFIED.

1.3 DEFERRED SUBMITTALS AND DELEGATED DESIGN

A. IN ACCORDANCE WITH IBC 107.3.4.1 AND LOCAL BUILDING DEPARTMENT REQUIREMENTS, THE DEFERRED SUBMITTALS ITEMS LISTED BELOW IN THIS SECTION SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTAL DOCUMENTS FOR REVIEW BY THE BUILDING OFFICIAL.
B. ALL DEFERRED SUBMITTALS SHALL BE SIGNED AND SEALED BY AN ENGINEER RESPONSIBLE FOR THE WORK AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
C. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD A MINIMUM OF 30 DAYS PRIOR TO FABRICATION. DEFERRED SUBMITTAL DOCUMENTS WILL BE REVIEWED BY THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. A COPY OF THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
D. DEFERRED SUBMITTAL ITEMS:
   1. GLAZING SYSTEMS AND THEIR CONNECTIONS
   2. PRECAST CONCRETE INCLUDING CAST-IN FABRICATED HARDWARE
   3. STEEL STAIRS AND LANDINGS
   4. GUARDRAILS AND HANDRAILS
   5. STRUCTURAL STEEL CONNECTIONS
   6. LIGHT GAUGE STEEL FRAMING AND THEIR CONNECTIONS
   7. WATER PROOF/DETACHED/PRE-ENGINEERED SYSTEMS
E. OTHER DELEGATED DESIGN ITEMS:
   1. TEMPORARY EARTH RETENTION SYSTEM
   2. TEMPORARY BRACING AND SHORING SYSTEMS

1.4 BUILDING CLASSIFICATION

A. IBC USE AND OCCUPANCY CLASSIFICATION: LOW-HAZARD STORAGE, GROUP S-2 OPEN PARKING GARAGE AND ENCLOSED PARKING GARAGE	
B. PROTECTED AREAS (WITH SPRINKLERS) AND UNPROTECTED AREAS (WITHOUT SPRINKLERS)	
C. TYPE OF CONSTRUCTION	XXX
D. AREA PER TIER	28,500 SQ FT
E. RAMP ACCESSIBLE TIERS	5

1.5 FIRE RESISTANCE

A. FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (IBC TABLE 601)

1.	PRIMARY STRUCTURAL FRAME	XX HRS
2.	EXTERIOR BEARING WALLS	XX HRS
3.	INTERIOR BEARING WALLS	XX HRS
4.	EXTERIOR NONBEARING WALLS AND PARTITIONS	REFER TO ARCH
5.	INTERIOR NONBEARING WALLS AND PARTITIONS	REFER TO ARCH

1.6 LOADING AND DESIGN PARAMETERS – ASCE 7-16 OR AS SPECIFIED HEREIN

A. RISK CATEGORY: II
B. SUPERIMPOSED DEAD LOADING

1.	SUPPORTED PARKING AND DRIVE AREAS	MECHANICAL, ELECTRICAL, PLUMBING, MISC. UNIFORM LOAD	5 PSF
2.	STAIRS	MECHANICAL, ELECTRICAL, PLUMBING, MISC. UNIFORM LOAD	5 PSF

C. LIVE LOADING

1.	SUPPORTED PARKING AND DRIVE AREAS	a. UNIFORM LOAD (PASSENGER VEHICLES ONLY)	40 PSF
		b. CONCENTRATED LOAD ACTING ON 20 SQ. IN. AREA	3000 LBS
2.	ROOF (NON-PARKING)	a. UNIFORM LOAD	20 PSF
3.	SLAB ON GRADE	a. UNIFORM LOAD	100 PSF
		b. CONCENTRATED LOAD ACTING ON 20 SQ. IN. AREA	3000 LBS
4.	STAIRS AND EXITS	a. UNIFORM LOAD	100 PSF
		b. CONCENTRATED LOAD ACTING ON 4 SQ. IN. AREA	300 LBS
5.	HANDRAILS AND GUARDS	a. UNIFORM LOAD	50 PLF
		b. CONCENTRATED LOAD	200 LBS
6.	INTERMEDIATE RAILS, BALUSTERS, AND PANEL FILLERS	CONCENTRATED LOAD ACTING ON 1 SQ. FT. AREA MAXIMUM	50 LBS
7.	VEHICLE BARRIER SYSTEMS	CONCENTRATED LOAD ACTING ON 1 SQ. FT. MAXIMUM AREA, ASSUMED TO ACT AT HEIGHTS BETWEEN 18 AND 27 INCHES ABOVE FINISHED FLOOR	6000 LBS
8.	LIVE LOAD REDUCTION	ONLY AS PERMITTED BY IBC SECTION 1607.11.1.3 FOR PASSENGER VEHICLE GARAGES.	

D. ELEVATOR STRUCTURAL LOADS

DRAWINGS SHOW BASIS OF DESIGN ELEVATOR LOADING DIAGRAM. CONTRACTOR SHALL SUBMIT FINAL ELEVATOR SHOP DRAWINGS SHOWING ALL ACTUAL ELEVATOR LOADS FOR ENGINEER VERIFICATION OF STRUCTURE LOAD CARRYING CAPACITY PRIOR TO ELEVATOR INSTALLATION.

E. SNOW LOADING

1.	GROUND SNOW LOAD (Pg)	20 PSF
2.	FLAT ROOF SNOW LOAD (Pf)	17 PSF
3.	EXPOSURE FACTOR (Ce)	1.0
4.	THERMAL FACTOR (Ct)	1.2
5.	IMPORTANCE FACTOR (Is)	1.0
6.	SNOW DRIFT: REFER TO DRAWINGS FOR LOADING PLAN DIAGRAM	

F. WIND LOADING

1.	RISK CATEGORY	II
2.	BASIC WIND SPEED	107 PSF
3.	EXPOSURE CATEGORY	B
4.	INTERNAL PRESSURE COEFFICIENT (GCpi)	± 0.18
5.	COMPONENTS AND CLADDING PRESSURES	REFER TO SCHEDULES AND DIAGRAMS

G. SEISMIC LOADING

1.	RISK CATEGORY		II
2.	IMPORTANCE FACTOR (Ie)		1.0
3.	SPECTRAL RESPONSE ACCELERATIONS	a. SHORT PERIODS (SS)	0.194g
		b. 1 SEC PERIOD (S1)	0.106g
4.	SITE CLASS		D
5.	DESIGN SPECTRAL RESPONSE ACCELERATIONS	a. SHORT PERIODS (SDS)	0.206g
		b. 1 SEC PERIOD (SD1)	0.169g
6.	DESIGN CATEGORY		C
7.	NORTH/SOUTH DIRECTION	a. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
		b. SEISMIC FORCE RESISTING SYSTEM	INTERMEDIATE PRECAST SHEAR WALLS (BUILDING FRAME SYSTEM)
		c. RESPONSE COEFFICIENT (Cs)	XX
		d. RESPONSE MODIFICATION FACTOR (R)	5
		e. BASE SHEAR (V)	XX KIPS
8.	EAST/WEST DIRECTION	a. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
		b. SEISMIC FORCE RESISTING SYSTEM	INTERMEDIATE PRECAST SHEAR WALLS (BUILDING FRAME SYSTEM)
		c. RESPONSE COEFFICIENT (Cs)	XX
		d. RESPONSE MODIFICATION FACTOR (R)	5
		e. BASE SHEAR (V)	XX KIPS

E. VOLUMETRIC CHANGE LOADING - PCI DESIGN HANDBOOK (MNL-120 CHAPTER 4)

1.	MAXIMUM SEASONAL CLIMATIC TEMPERATURE CHANGE	70 °F
2.	ANNUAL AVERAGE AMBIENT RELATIVE HUMIDITY	70 %

1.7 FUTURE EXPANSION

A. THE STRUCTURE IS NOT DESIGNED FOR FUTURE EXPANSION.

1.8 MINIMUM VERTICAL CLEARANCE

A. MINIMUM VERTICAL CLEARANCE BELOW ALL STRUCTURAL, ARCHITECTURAL, MEP, FIRE PROTECTION ITEMS, ETC.
   1. LEVELS P1 AND P2: 8'-4" (FOR 8'-2" SIGNED OVERHEAD CLEARANCE)
   2. LEVELS P3 AND ABOVE: 7'-4" (FOR 7'-2" SIGNED OVERHEAD CLEARANCE)
B. NOTIFY THE ENGINEER OF ANY CONDITION WHERE INDICATED TOP OF SLAB ELEVATIONS DO NOT ALLOW FOR MINIMUM VERTICAL CLEARANCE.

1.9 DRAINAGE

A. PROVIDE TOP OF SLAB ELEVATIONS AS INDICATED ON THE DRAWINGS. PROVIDE 1.5% MINIMUM SLOPE ON PARKING SURFACES WHERE ELEVATIONS ARE NOT INDICATED.
B. NOTIFY THE ENGINEER OF ANY CONDITION WHERE INDICATED TOP OF SLAB ELEVATIONS DO NOT ALLOW FOR MINIMUM SLOPE.

1.10 DATUM

A. ALL STRUCTURAL ELEVATIONS UTILIZE THE SAME DATUM AS THE SITE SURVEY.

1.11 STRUCTURAL DURABILITY DESIGN SUMMARY

A. STRUCTURAL DURABILITY DESIGN IS BASED ON CRITERIA PRESENTED IN ACI 362.1R "GUIDE FOR THE DESIGN AND CONSTRUCTION OF DURABLE CONCRETE PARKING STRUCTURES" FOR ZONE III EXPOSURE
   1. PRECAST CONCRETE STRUCTURE WITH HEAVY DUTY DECK COATING, CONCRETE SEALER, CONCRETE TOPPING WITH CORROSION INHIBITOR, PRECAST CONCRETE WITH CORROSION INHIBITOR, LOW PERMEABILITY PRECAST CONCRETE, AND SPECIAL PRECAST CONCRETE COVER REQUIREMENTS.
   2. CONCRETE ACCESSORIES TO BE HOT-DIP GALVANIZED, AND/OR STAINLESS STEEL.

1.12 CONSTRUCTION AND COORDINATION NOTES

A. THE CONTRACTOR SHALL COORDINATE AND CHECK ALL DIMENSIONS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE AFFECTED WORK.
B. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
C. CONSTRUCTION MEANS, METHODS, PROCEDURES, BRACING, AND SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE DRAWINGS REPRESENT THE WORK IN ITS FINISHED STATE.
D. THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. SUPPORTING FORMWORK FOR ELEVATED CONSTRUCTION SHALL NOT BE REMOVED BEFORE THE CONCRETE HAS GAINED SUFFICIENT STRENGTH TO SAFELY SUPPORT THE DEAD AND SUPERIMPOSED LOADS WHICH SUBSEQUENTLY WOULD BE APPLIED. REFER TO SPEC SECTION 03 11 00 CONCRETE FORMING FOR ADDL INFORMATION.
E. ALL OMISSIONS OR CONFLICTS AMONG VARIOUS ELEMENTS OF DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK.
F. VERIFY AND COORDINATE THE LOCATION AND SIZE OF ALL OPENINGS AND SLEEVES THROUGH FLOORS, WALLS, AND ROOFS (MECHANICAL, ELECTRICAL, HVAC, FIRE PROTECTION, TECHNOLOGY, ETC.). NO STRUCTURAL MEMBERS SHALL BE PENETRATED OR CUT UNLESS SPECIFICALLY SUBMITTED AND APPROVED IN WRITING BY ENGINEER.
G. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DESIGNATED DISCIPLINES AND COORDINATED WITH THE WORK OF ALL CONSTRUCTION TRADES.
H. VERIFY AND COORDINATE THE LOCATION OF SLAB DEPRESSIONS, FLOOR DRAINS, INSERTS, AND OTHER RELATED ITEMS.
I. THE NOTED DRAWING SCALES ARE FOR GENERAL REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
J. IF DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
K. DO NOT INSTALL CONDUIT IN SUPPORTED SLABS, SLABS-ON-GRADE, COLUMNS, BEAMS OR WALLS UNLESS EXPLICITLY SHOWN OR NOTED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
L. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE CONSTRUCTION DO NOT IN ANY WAY MEAN GUARANTEE OF CONTRACTOR'S WORK, RESPONSIBILITY FOR COORDINATION, SUPERVISION, OR SAFETY AT JOB SITE.
M. FIELD VERIFY THE LOCATIONS OF EXISTING STRUCTURES, UTILITIES, ETC., AND NOTIFY ENGINEER OF INTERFERENCES NOT NOTED ON DRAWINGS.

1.13 DUST CONTROL

A. FILTER FABRIC SHALL BE INSTALLED OVER ALL STORM DRAIN BASINS WITHIN THE WORK AREA.
B. DUST, SILT, SEDIMENT ETC. SHALL NOT LEAVE THE SITE.
C. ALL SAW CUTTING AND GRINDING OPERATIONS SHALL BE PERFORMED WET TO CONTROL DUST.
D. ENCLOSE THE WORK AREA AT THE BOTTOM OF THE RAMPS. INSTALL TARPS AS REQUIRED BETWEEN COLUMNS TO CONTROL DUST / DEBRIS AND TO PROTECT VEHICLES. AS A MINIMUM, PROVIDE TARPS ALONG THE INTERIOR COLUMNS OF THE WORK AREA.

1.14 CONCRETE AND SAW CUTTING WORK

A. THE FOLLOWING REQUIREMENTS APPLY TO CONCRETE AND SAW CUTTING WORK (CUTTING, GRINDING, DRILLING, HYDRO-DEMOLITION, ETC.):
   1. WHERE BOTH FLY ASH AND GGBS (SLAG) ARE USED IN A MIX DESIGN THEIR TOTAL SHALL NOT EXCEED 35% BY WEIGHT OF THE TOTAL CEMENTITIOUS MATERIAL IN THE MIX DESIGN FOR SLABS AND 50% FOR FORMED MEMBERS.
   2. WHERE FLY ASH, SLAG AND SILICA FUME ARE USED IN A SINGLE MIX DESIGN, THE TOTAL SHALL NOT EXCEED 42% BY WEIGHT OF THE TOTAL CEMENTITIOUS MATERIAL IN THE MIX DESIGN.
B. CONCRETE MIX DESIGN CONTAINS 4-1/2 LBS/CY OF MACRO SYNTHETIC FIBER REINFORCEMENT.
C. CONCRETE MIX DESIGN CONTAINS 1-1/2 LBS/CY OF FIBRILLATED SYNTHETIC FIBER REINFORCEMENT OR 1 LBS/CY MICROFILAMENT FIBER REINFORCEMENT.
D. ENTRAINED AIR CONTENT VALUES ARE FOR IN-PLACE CONCRETE. AIR CONTENT TOLERANCE IS +/- 1.5%
E. ALL CONCRETE IS NORMAL WEIGHT WITH A DENSITY OF APPROXIMATELY 145 PCF UNLESS NOTED OTHERWISE. THE WEIGHT OF FLY ASH AND GGBS ADMIXTURE(S) MAY BE INCLUDED WITH THE WEIGHT OF CEMENT.
F. FOR SITEWORK CONCRETE REFER TO CIVIL DRAWINGS.

1.15 CONCRETE WASHOUT

A. DO NOT DISCHARGE CONCRETE, MORTAR OR GROUT WASHOUT INTO STORM DRAINS, CATCH BASINS OR TO THE SANITARY SEWER SYSTEM. PERFORM WASHING OF CONCRETE TRUCKS IN DESIGNATED AREAS OR OFFSITE.
   1. DESIGNATED AREAS SHOULD BE CLEARLY LABELED. THEY SHOULD BE IN A PIT TO PREVENT RUNOFF OF WASTEWATER. PLACE DESIGNATED AREAS A MINIMUM OF 50 FEET FROM STORM DRAINS, BODIES OF WATER AND DITCHES. ALL DESIGNATED AREAS SHOULD BE LINED TO PREVENT SEEPAGE AND SHOULD HAVE A BARRIER.
   2. ALTERNATIVE TO A DESIGNATED AREA: PROVIDE A CONCRETE BOX. IF ONLY A SMALL AMOUNT OF CONCRETE WASHING IS TO OCCUR. ONE OPTION IS TO LINE A ROLL-OFF BOX. FOR VERY SMALL PROJECTS THIS COULD BE DONE WITH A DRUM.
B. ONCE CONCRETE WASHOUT HAS HARDENED, BREAK UP AND DISPOSE OF PROPERLY. DISPOSAL OF HARDENED CONCRETE SHOULD OCCUR ON A REGULAR BASIS.
C. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES PROVIDED ONCE THE WASHOUT AREA IS 75% FULL.

1.16 WASTE DISPOSAL

A. ANY USED CHEMICAL PRODUCTS OR SOLVENTS INCLUDING CHEMICAL AND SOLVENT MIXTURES, RESIDUES, CONTAMINATED RAGS AND CONTAINERS SHOULD BE EVALUATED FOR PROPER DISPOSAL.

DIVISION 02 - EXISTING CONDITIONS

2.1 EXISTING STRUCTURES

A. WHERE DIMENSIONS ARE INDICATED FOR EXISTING STRUCTURES OR UTILITIES, THEY ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY IN FIELD (VIF) ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ANY VARIATIONS BETWEEN EXISTING DIMENSIONS AND/OR ELEVATIONS ON DRAWINGS SHALL BE REPORTED TO THE ENGINEER.

DIVISION 03 - CAST-IN-PLACE CONCRETE

3.1 ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

A. ACI 318-14
B. ACI 362.1R-12
C. SPECIFICATION SECTION 03 31 36 CAST-IN-PLACE CONCRETE FOR PARKING STRUCTURES

3.2 CONCRETE

CONCRETE MEMBER	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS F'C (PSI)	MAXIMUM CHLORIDE-ION CONTENT (% BY WEIGHT OF CEMENT)	MAXIMUM W/CM RATIO	AIR CONTENT (%)	CORROSION INHIBITOR ADMIXTURE DOSAGE (GAL/CY)	MINIMUM FLY ASH CONTENT	MINIMUM GGBS CONTENT	NOTES
DRILLED PIERS	4,000	0.30	0.45	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	
PIER CAPS	4,000	0.30	0.45	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	
FOOTING & MAT FOUNDATIONS	4,000	0.30	0.45	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	
GRADE BEAMS	4,000	0.30	0.45	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	
WALLS & PILASTERS	5,000	0.15	0.40	6.5	2	20%	15%	
TOPPING SLAB	5,000	0.15	0.40	6.5	3	20%	15%	
SLAB-ON-GRADE	4,500	0.15	0.40	6.5	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOTE B
ISLAND & PADS	4,000	0.15	0.40	6.5	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOTE C
ALL OTHERS	4,000	0.30	0.40	6.5	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	

NOTES:

A. MAXIMUM PERCENT OF TOTAL CEMENTITIOUS MATERIALS:
   1. WHERE BOTH FLY ASH AND GGBS (SLAG) ARE USED IN A MIX DESIGN THEIR TOTAL SHALL NOT EXCEED 35% BY WEIGHT OF THE TOTAL CEMENTITIOUS MATERIAL IN THE MIX DESIGN FOR SLABS AND 50% FOR FORMED MEMBERS.
   2. WHERE FLY ASH, SLAG AND SILICA FUME ARE USED IN A SINGLE MIX DESIGN, THE TOTAL SHALL NOT EXCEED 42% BY WEIGHT OF THE TOTAL CEMENTITIOUS MATERIAL IN THE MIX DESIGN.
B. CONCRETE MIX DESIGN CONTAINS 4-1/2 LBS/CY OF MACRO SYNTHETIC FIBER REINFORCEMENT.
C. CONCRETE MIX DESIGN CONTAINS 1-1/2 LBS/CY OF FIBRILLATED SYNTHETIC FIBER REINFORCEMENT OR 1 LBS/CY MICROFILAMENT FIBER REINFORCEMENT.
D. ENTRAINED AIR CONTENT VALUES ARE FOR IN-PLACE CONCRETE. AIR CONTENT TOLERANCE IS +/- 1.5%
E. ALL CONCRETE IS NORMAL WEIGHT WITH A DENSITY OF APPROXIMATELY 145 PCF UNLESS NOTED OTHERWISE. THE WEIGHT OF FLY ASH AND GGBS ADMIXTURE(S) MAY BE INCLUDED WITH THE WEIGHT OF CEMENT.
F. FOR SITEWORK CONCRETE REFER TO CIVIL DRAWINGS.

3.3 CEMENT

A. ASTM C150 TYPE I
B. ASTM C595 TYPE IL (10)

3.4 AGGREGATES

A. ASTM C 33

3.5 MILD REINFORCEMENT

A. MILD REINFORCEMENT, ASTM A 615 GRADE 60
B. MILD REINFORCEMENT (LOW ALLOY WELDABLE), ASTM A 706 GRADE 60
C. MECHANICAL TENSION AND COMPRESSION SPLICES AS INDICATED ON DRAWINGS
D. MECHANICAL TERMINATION SIZES AS INDICATED ON DRAWINGS
E. EPOXY COATING FOR PLAIN AND DEFORMED MILD REINFORCEMENT, ASTM A 775
F. WELDED PLAIN WIRE FABRIC SHEETS, ASTM A 185, GRADE 65
G. EPOXY COATING FOR PLAIN WELDED WIRE FABRIC, ASTM A 884
H. EPOXY COATING FOR DOWEL BARS SHALL BE THE SAME AS SPECIFIED FOR REINFORCEMENT TO BE SPLICED
I. WELDING FOR REINFORCING STEEL, AWS D1.4
J. CONCRETE PROTECTION SHALL BE PER ACI 362.1R, EXCEPT AS NOTED ON DRAWINGS AND SPECIFIED IN THIS SCHEDULE. SPECIFIC DRAWINGS AND DETAILS MAY OR MAY NOT INDICATE EPOXY COATING OR UNCOATED REINFORCING. IN AREAS OF DISPUTE, THIS SCHEDULE SHALL GOVERN IN ALL CASES.

CONCRETE MEMBER		REINFORCEMENT CONCRETE COVER	REINFORCEMENT COATING PROTCTION
DRILLED PIERS		3"	UNCOATED
PIER CAPS		3"	UNCOATED
FOOTINGS & MAT FOUNDATIONS	FORMED SIDES	2"	UNCOATED
	SIDES CAST AGAINST EARTH	3"	UNCOATED
GRADE BEAMS	STIRRUPS	3" ALL SIDES	UNCOATED
WALLS	SIDES IN CONTACT WITH EARTH	2"	UNCOATED
	NOT IN CONTACT WITH EARTH	1 1/2"	UNCOATED
PILASTERS	TIES	2" ALL SIDES	EPOXY COATED
	VERTICAL BARS	2 1/2"	UNCOATED
TOPPING SLAB REINFORCEMENT		1 1/2" FROM TOP	EPOXY COATED
SLAB-ON-GRADE REINFORCEMENT		2" FROM TOP	UNCOATED
ISLANDS, PADS, CURBS, MISC. REINFORCEMENT		1 1/2"	EPOXY COATED

3.6 POST-INSTALLED MILD REINFORCEMENT

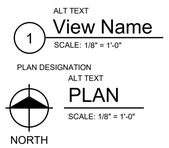
A. POST-INSTALLED REINFORCING BAR CONNECTIONS SHALL BE PROVIDED PER THE ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
B. THE EMBEDMENT OF STRAIGHT POST-INSTALLED REINFORCING BARS SHALL BE PROVIDED PER THE DEVELOPMENT AND SPLICE LENGTH REQUIREMENTS OF THE ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, UNLESS NOTED OR APPROVED OTHERWISE BY ENGINEER.
C. THE ADHESIVE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE ICC-ES ACCEPTANCE CRITERIA FOR POST-INSTALLED EPOXY ANCHORS IN CONCRETE ELEMENTS (AC308), TABLE 3.8. TECHNICAL DATA SHALL BE PUBLISHED IN AN ICC-ES EVALUATION SERVICE REPORT SHOWING COMPLIANCE WITH IBC.
D. POST-INSTALLED REINFORCING BAR INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR POST-INSTALLED REINFORCING BARS. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION PRIOR TO THE COMMENCEMENT OF REINFORCING BAR INSTALLATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL POST-INSTALLED REINFORCING BARS HAVE BEEN TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
E. THE POSITION OF EXISTING REINFORCEMENT (POST-TENSIONED TENDONS, PRESTRESSED STRANDS AND MILD REINFORCEMENT) IN THE CONCRETE STRUCTURE SHALL BE LOCATED PRIOR TO POST-INSTALLING REINFORCING BARS. EXISTING REINFORCEMENT SHALL BE LOCATED USING CONCRETE SCANNING DEVICES, GPR, X-RAY, CHIPPING, OR OTHER MEANS. EXISTING REINFORCEMENT SHALL NOT BE DAMAGED DURING INSTALLATION OF POST-INSTALLED MILD REINFORCEMENT.

3.7 CONCRETE ACCESSORIES

A. MISCELLANEOUS STEEL SHAPES, PLATES, AND BARS, ASTM A 36, HOT-DIP GALVANIZED AFTER ASSEMBLY. STAINLESS STEEL ASTM A 666 OR ASTM A 276, TYPE 304L AS NOTED ON DRAWINGS.
B. ANCHOR BOLTS, ASTM F 1554 GRADE 36, HOT-DIP GALVANIZED
C. HEADED STUD ANCHORS, ASTM A 108, TO BE IN ACCORDANCE WITH AWS D1.1-TYPE B, SIZES AS INDICATED ON DRAWINGS.
D. POST-INSTALLED ANCHORS SHALL BE STAINLESS STEEL:
   1. ANCHOR CAPACITY SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY ANCHOR MANUFACTURER. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.
   2. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
   3. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND UNDER CONTINUOUS INSPECTION BY SPECIAL INSPECTOR.
   4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE ENGINEER MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT ANCHOR INSTALLATION.
   5. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
   6. EXISTING REINFORCEMENT (POST-TENSIONED TENDONS, PRESTRESSED STRANDS AND MILD REINFORCEMENT) IN THE CONCRETE STRUCTURE MAY CONFLICT WITH THE SPECIFIC ANCHOR LOCATIONS. THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY CONCRETE SCANNER, GPR, X-RAY, OR OTHER NON-DESTRUCTIVE MEANS UNLESS APPROVED OTHERWISE BY ENGINEER. EXISTING REINFORCEMENT SHALL NOT BE DAMAGED DURING INSTALLATION OF POST-INSTALLED ANCHORS.
E. ASPHALTIC JOINT FILLER SHALL BE 1/2" THICK OR AS NOTED ON DRAWINGS.
F. COMPRESSIBLE JOINT FILLER SHALL BE 1" THICK OR AS NOTED ON DRAWINGS.
G. EAR

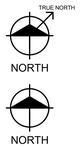
GRAPHIC SYMBOLS

ELEVATION, SECTION, ENLARGED PLAN, AND DETAIL DESIGNATION



PLAN DESIGNATION

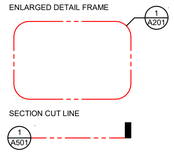
NORTH ARROW DESIGNATIONS



EXTERIOR ELEVATION TAG

INTERIOR ELEVATION / PHOTO TAG

ENLARGED DETAIL FRAME



SECTION CUT LINE

LEVEL CALLOUT

ELEVATION TARGET

SPOT ELEVATION

UP

RAMP HINGE LINE -
UP INDICATES THE SURFACE SLOPES UP.
DN INDICATES THE SURFACE SLOPES DOWN.

NEW GRID SYMBOL

EXISTING GRID SYMBOL

FUTURE GRID SYMBOL

PLAN MATCH LINE (RAMP)

BULLETIN IDENTIFICATION

ADDENDUM IDENTIFICATION

REVISION CLOUD

KEY NOTE TAG

DEMOLITION NOTE TAG

REBAR DEVELOPMENT & SPLICE LENGTHS (ACI 318)

TENSION DEVELOPMENT LENGTHS

BAR SIZE	f'c 4500 psi, fy 60 ksi				f'c 5000 psi, fy 60 ksi				f'c 6000 psi, fy 60 ksi			
	EPOXY COATED BARS		UNCOATED BARS		EPOXY COATED BARS		UNCOATED BARS		EPOXY COATED BARS		UNCOATED BARS	
	LENGTHS		LENGTHS		LENGTHS		LENGTHS		LENGTHS		LENGTHS	
	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#3	1'-11"	1'-9"	1'-6"	1'-2"	1'-10"	1'-8"	1'-5"	1'-1"	1'-8"	1'-6"	1'-4"	1'-0"
#4	2'-7"	2'-3"	2'-0"	1'-6"	2'-5"	2'-2"	1'-11"	1'-5"	2'-3"	2'-0"	1'-9"	1'-4"
#5	3'-3"	2'-10"	2'-6"	1'-11"	3'-1"	2'-8"	2'-4"	1'-10"	2'-9"	2'-6"	2'-2"	1'-8"
#6	3'-10"	3'-5"	2'-11"	2'-3"	3'-8"	3'-3"	2'-10"	2'-2"	3'-4"	2'-11"	2'-7"	2'-0"
#7	5'-7"	4'-11"	4'-3"	3'-4"	5'-4"	4'-8"	4'-1"	3'-2"	4'-10"	4'-3"	3'-9"	2'-10"
#8	6'-5"	5'-8"	4'-11"	3'-9"	6'-1"	5'-4"	4'-8"	3'-7"	5'-6"	4'-11"	4'-3"	3'-3"
#9	7'-2"	6'-4"	5'-6"	4'-3"	6'-10"	6'-0"	5'-3"	4'-0"	6'-3"	5'-6"	4'-9"	3'-8"
#10	8'-1"	7'-2"	6'-2"	4'-9"	7'-8"	6'-9"	5'-11"	4'-6"	7'-0"	6'-2"	5'-4"	4'-2"
#11	9'-0"	7'-11"	6'-10"	5'-4"	8'-6"	7'-6"	6'-6"	5'-0"	7'-9"	6'-10"	5'-11"	4'-7"

CLASS B LAP SPLICE LENGTHS

BAR SIZE	f'c 4500 psi, fy 60 ksi				f'c 5000 psi, fy 60 ksi				f'c 6000 psi, fy 60 ksi			
	EPOXY COATED BARS		UNCOATED BARS		EPOXY COATED BARS		UNCOATED BARS		EPOXY COATED BARS		UNCOATED BARS	
	LENGTHS		LENGTHS		LENGTHS		LENGTHS		LENGTHS		LENGTHS	
	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#3	2'-6"	2'-4"	2'-0"	1'-7"	2'-5"	2'-2"	1'-11"	1'-5"	2'-2"	2'-0"	1'-9"	1'-4"
#4	3'-5"	3'-0"	2'-8"	2'-0"	3'-2"	2'-10"	2'-6"	1'-11"	3'-0"	2'-8"	2'-4"	1'-9"
#5	4'-3"	3'-9"	3'-3"	2'-6"	4'-1"	3'-6"	3'-1"	2'-5"	3'-7"	3'-3"	2'-10"	2'-2"
#6	5'-0"	4'-6"	3'-10"	3'-0"	4'-10"	4'-3"	3'-9"	2'-10"	4'-4"	3'-10"	3'-5"	2'-8"
#7	7'-4"	6'-5"	5'-7"	4'-4"	7'-0"	6'-1"	5'-4"	4'-2"	6'-4"	5'-7"	4'-11"	3'-9"
#8	8'-5"	7'-5"	6'-5"	4'-11"	7'-11"	7'-0"	6'-1"	4'-8"	7'-2"	6'-5"	5'-7"	4'-3"
#9	9'-4"	8'-3"	7'-2"	5'-7"	8'-11"	7'-10"	6'-10"	5'-3"	8'-2"	7'-2"	6'-3"	4'-10"
#10	10'-7"	9'-4"	8'-1"	6'-3"	10'-0"	8'-10"	7'-9"	5'-11"	9'-2"	8'-1"	7'-0"	5'-5"
#11	11'-9"	10'-4"	8'-11"	7'-0"	11'-1"	9'-9"	8'-6"	6'-6"	10'-1"	8'-11"	7'-9"	6'-0"

NOTES:

1	ALL TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE PLACED BELOW BARS.
2	WHEN TWO DIFFERENT SIZE BARS ARE LAPPED TOGETHER, THE LAP LENGTH SHALL BE THE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE CLASS B LAP LENGTH OF THE SMALLER BAR.
3	THE FOLLOWING CRITERIA MUST BE MET: CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED MUST NOT BE LESS THAN ONE BAR DIAMETER (DB), CLEAR COVER NOT LESS THAN DB, AND STIRRUPS AND TIES THROUGHOUT THE DEVELOPMENT LENGTH (LD) NOT LESS THAN THE CODE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2DB AND CLEAR COVER NOT LESS THAN DB. OTHERWISE MULTIPLY VALUES IN TABLE BY 1.5.
4	FOR BUNDLED BARS MULTIPLY THE LENGTHS SHOWN IN THE TABLES BY 1.20 FOR 3 BAR BUNDLES AND 1.33 FOR 4 BAR BUNDLES. DO NOT BUNDLE MORE THAN 4 BARS.

GENERAL ABBREVIATIONS

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT
BAL	BALANCE
BF	BARRIER FREE
BIT	BITUMINOUS
BO	BOTTOM OF
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BSMT	BASEMENT
BR	BOTTOM REINFORCEMENT
BRG	BEARING
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTR	CENTER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG	DEGREES
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EC	EPOXY COATED
EF	EACH FACE
EL	ELEVATION
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EOS	EDGE OF STEEL
EQ	EQUAL
EQUIP	EQUIPMENT
EV	ELECTRIC VEHICLE
EVC	ELECTRIC VEHICLE CHARGING
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FF	FINISHED FLOOR
FIN	FINISH
FS	FOOTING STEP
FT	FOOT/FEET
FTG	FOOTING
GA	GUAGE/GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GGBS	GROUND GRANULATED BLAST-FURNACE SLAG
HK	HOOK
HORIZ	HORIZONTAL
HRS	HOURS
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING VENTILATING AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH/INCHES
INFO	INFORMATION
INSUL	INSULATION
IT	INVERTED TEE
JT	JOINT
LBS	POUNDS
LED	LIGHT EMITTING DIODE
LF	LINEAL FEET
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPR	LICENSE PLATE RECOGNITION
LT WALL	LIGHT WALL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPH	MILES PER HOUR
MO	MASONRY OPENING
MT	MOUNTING
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NSNS	NON-SHRINK, NON-STAIN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OVHD	OVERHEAD
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PCC	PRECAST CONCRETE
PERP	PERPENDICULAR
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PREFAB	PREFABRICATED
PROP	PROPOSED
PT	POST-TENTIONED
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
ROW	RIGHT OF WAY
SECT	SECTION
SF	SQUARE FOOT
SIM	SIMILAR
SP	SPACE/SPACING
SPEC(S)	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SYS	SYSTEM
T & B	TOP AND BOTTOM
TAN	TANGENT
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF SLAB
TOW	TOP OF WALL
TR	TOP REINFORCEMENT
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOL	VOLUME
W/	WITH
WF	WIDE FLANGE
WJ	WALL CONTROL OR CONSTRUCTION JOINT
W/O	WITHOUT
WP	WORKPOINT
WS	WALL STEP
WSJ	WATER STOP JOINT
WWF	WELDED WIRE FABRIC
ZRC	ZINC RICH COATING

DLR GROUP
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NOT FOR CONSTRUCTION

fishbeck
Engineers | Architects | Scientists | Constructors

JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD PUBLIC / PRIVATE LLC

220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

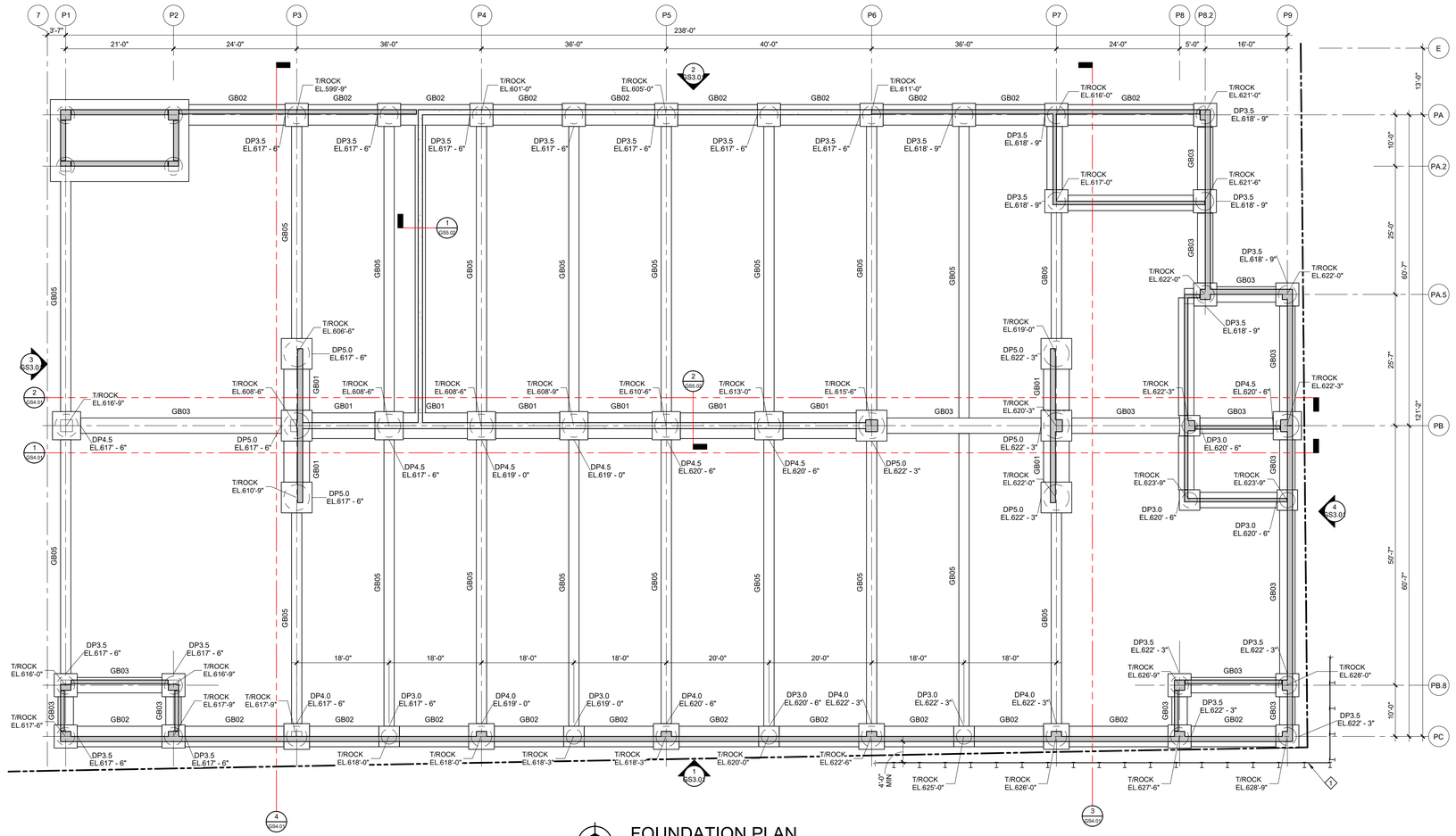
SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

GENERAL NOTES

GS0.02

Fishbeck Project No. 240899



FOUNDATION PLAN

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

NORTH

PLAN SYMBOLS

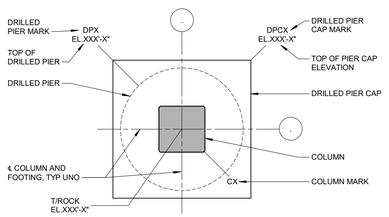
FS	INDICATES FOOTING STEP, REFER TO DETAILS X & X/XXXX.
WS	INDICATES WALL STEP. LOCATE STEPS AS SHOWN ON PLAN. A WALL CONTROL JOINT SHALL BE PROVIDED AT ALL STEP LOCATIONS.
WJ	INDICATES WALL CONSTRUCTION/CONTROL JOINT LOCATION. PROVIDE WALL CONSTRUCTION/CONTROL JOINTS AT 20'-0" MAX OC OR AS SHOWN IN PLANS. REFER TO DETAIL X/XXXX.
CX	INDICATES COLUMN MARK. FOR COLUMN MARK DEFINITION REFER TO DETAILS ON SHEET XXXX.
DPCX	INDICATES DRILLED PIER CAP MARK. FOR SIZE AND REINFORCEMENT REFER TO DRILLED PIER CAP SCHEDULE ON SHEET GS501.
DPX	INDICATES DRILLED PIER MARK. FOR SIZE AND REINFORCEMENT REFER TO DRILLED PIER SCHEDULE ON SHEET GS501.
GBX	INDICATES GRADE BEAM MARK. FOR SIZE AND REINFORCEMENT REFER TO GRADE BEAM SCHEDULE ON SHEET GS501.
GBS	INDICATES GRADE BEAM STEP. LOCATE STEPS AS SHOWN ON PLAN.

PLAN NOTES

1. FOR GENERAL NOTES, EXPLANATION OF NOTATIONS, LOADING DIAGRAMS AND ABBREVIATIONS, REFER TO SHEETS XXXX.
2. COORDINATE ALL DIMENSIONS, DETAILS, FINISHES, TIE HOLE LOCATIONS, AND BLOCKOUTS WITH ALL OF THE PROJECT CONSULTANT DRAWINGS.
3. CONTRACTORS SHALL INCLUDE IN THEIR BIDS ALL NECESSARY ALLOWANCES FOR HOT AND COLD WEATHER CONCRETING (INCLUDING BUT NOT LIMITED TO NIGHT POURS, EVAPORATION REDUCTION, HEATING, BLANKETING, CONCRETE ADMIXTURES ETC) TO COMPLETE THE PROJECT AS SCHEDULED. REFER TO SPECIFICATION SECTION 03 31 26.
4. FLOOR ELEVATIONS AS INDICATED DESIGNATE TOP OF CONCRETE SLAB AT COLUMN CENTERLINE. ELEVATIONS DO NOT INCLUDE CONCRETE WASHES, BEAMS, CURBS, ETC. FOR ELEVATION KEY, REFER TO DETAIL X/XXXX. FOR FLOOR ELEVATIONS BETWEEN POINTS INDICATED, USE STRAIGHT LINE INTERPOLATION.
5. PROVIDE 1" GAP BETWEEN ALL FOUNDATION WALLS AND COLUMNS UNO. REFER TO DETAIL X/XXXX FOR MORE INFORMATION.
6. FOR STAIR AND ELEVATOR FOUNDATIONS AND DETAILS, REFER TO ENLARGED TOWER PLANS AND SHEETS XXXX AND XXXX.
7. FOR C.I.P. WALL DETAILS, REFER TO SHEETS XXXX THROUGH XXXX.
8. FOR COLUMN MARKS REFER TO SHEET XXXX AND ENLARGED PLANS. FOR COLUMN MARK DEFINITION REFER TO DETAILS ON SHEET XXXX.
9. SLAB-ON-GRADE SHALL BE A MINIMUM OF 5" THICK CONCRETE. SLAB-ON-GRADE SHALL BE REINFORCED WITH EITHER STRUCTURAL MACRO FIBERS OR REBAR AS INDICATED IN PLANS.
10. PROVIDE VAPOR BARRIER/RETARDER IMMEDIATELY BELOW CONCRETE SLAB-ON-GRADE FOR ALL ENCLOSED ROOMS. DO NOT PROVIDE VAPOR BARRIER/RETARDER IN PARKING AND DRIVE AREAS.
11. CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE HAND-TOOLED OR SAW-CUT IN ACCORDANCE WITH DETAIL X/XXXX, TOOLED TO PROPER PROFILE, AND FILLED WITH SEALANT.
12. ROUT AND SEAL OR GRAVITY FEED EPOXY CRACKS IN THE SLAB-ON-GRADE, REFER TO DETAIL X/XXXX.
13. PROVIDE CONCRETE SEALER ON ON ALL SLAB SURFACES AND AS DESCRIBED IN THE GENERAL NOTES.
14. FOR SEALANT, DECK COATING, AND EXPANSION JOINT DETAILS, REFER TO SHEETS XXXX AND XXXX.
15. FOR MASONRY DETAILS, REFER TO SHEET XXXX.
16. ALL VERTICAL RISERS FOR PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS SHALL BE PROTECTED WITH GALVANIZED PIPE GUARDS, REFER TO DETAIL X/XXXX.
17. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPE LOCATIONS. REFER TO GENERAL NOTE 1.8 FOR MINIMUM HEADROOM CLEARANCE.
18. FOR TYPICAL PCC DETAILS REFER TO SHEETS XXXX THROUGH XXXX.

KEY NOTES

1 EXCAVATION SUPPORT SYSTEM BY CONTRACTOR (DELEGATED DESIGN)



NOTES:
1. REFER TO FOUNDATION DETAILS AND SCHEDULES ON GS501.
2. ROCK ELEVATION REPRESENTS INITIAL CONTACT WITH SOFT, WEATHERED ROCK.

COLUMN/FOUNDATION KEY PLAN
NO SCALE

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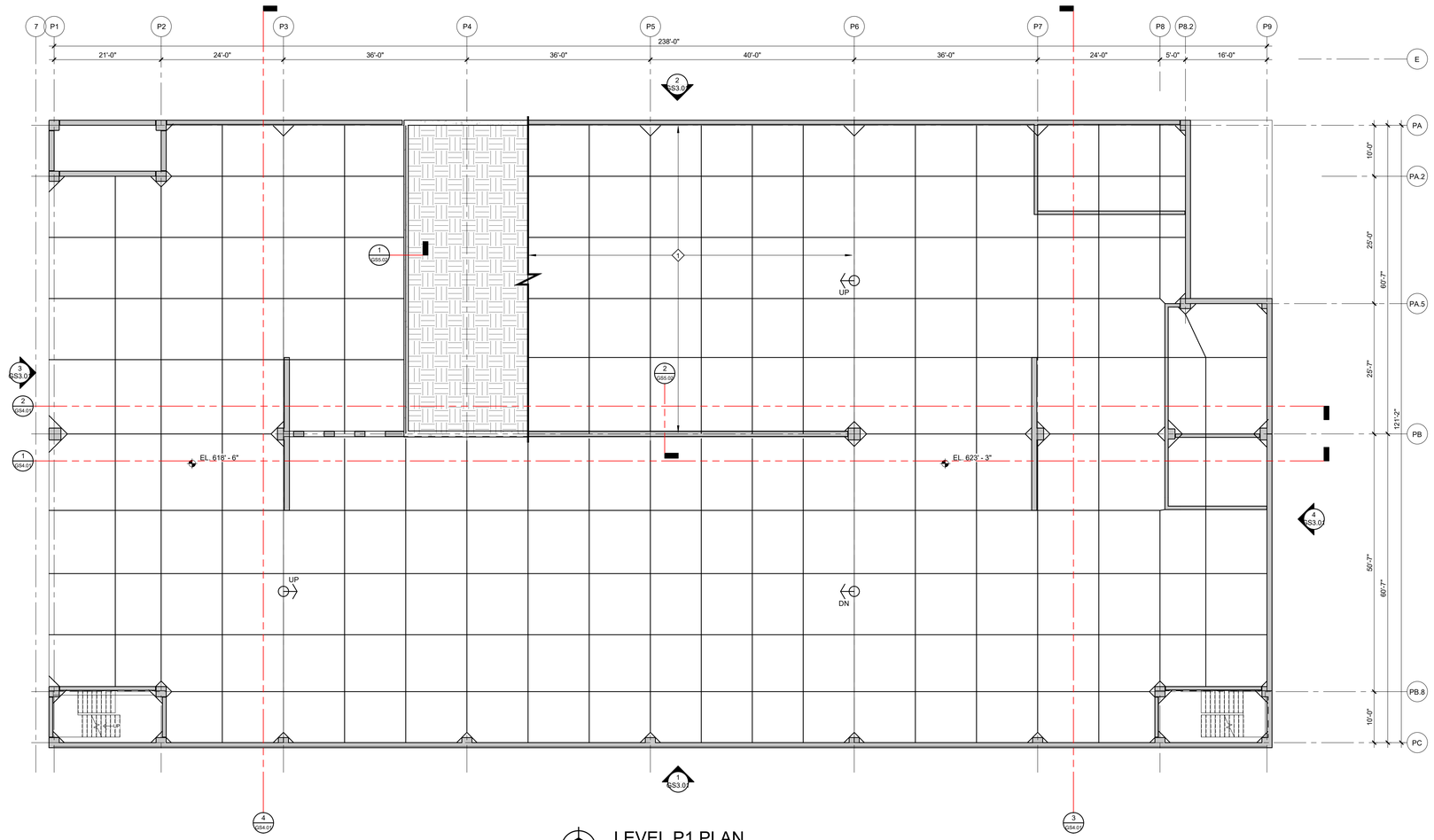
13-24114-00

FOUNDATION PLAN

GS1.00

Fishbeck Project No. 240899



LEVEL P1 PLAN

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

NORTH

PLAN SYMBOLS

	PRECAST CONCRETE BOLLARD, REFER TO SHEET XXXX FOR ADDITIONAL INFORMATION.
	6"ø ROUND STEEL POST BOLLARD, REFER TO STRUCTURAL AND SHEET XXXX FOR ADDITIONAL INFORMATION.
X	PLAN REINFORCEMENT AND MARK, REFER TO MILD STEEL SCHEDULE.
FD	INDICATES FLOOR DRAIN, REFER TO DETAILS XXXX AND XXXX. FOR ADDITIONAL INFORMATION REFER TO PLUMBING DRAWINGS.
	INDICATES HEAVY DUTY TRAFFIC BEARING MEMBRANE (DECK COATING) OVER OCCUPIED SPACE (ELECTRICAL, MECHANICAL, DATA, STORAGE ROOMS, ETC) AS SHOWN ON THE DRAWINGS. REFER TO DETAILS XX/XXXX.
FS	INDICATES FOOTING STEP, REFER TO DETAILS X & X/XXXX.
WS	INDICATES WALL STEP. LOCATE STEPS AS SHOWN ON PLAN. A WALL CONTROL JOINT SHALL BE PROVIDED AT ALL STEP LOCATIONS.
WJ	INDICATES WALL CONSTRUCTION/CONTROL JOINT LOCATION. PROVIDE WALL CONSTRUCTION/CONTROL JOINTS AT 20'-0" MAX OC OR AS SHOWN IN PLANS. REFER TO DETAIL X/XXXX.
CX	INDICATES COLUMN MARK. FOR COLUMN MARK DEFINITION REFER TO DETAILS ON SHEET XXXX.
FX	INDICATES COLUMN FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.
WX	INDICATES WALL FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.

PLAN NOTES

1. FOR GENERAL NOTES, EXPLANATION OF NOTATIONS, LOADING DIAGRAMS AND ABBREVIATIONS, REFER TO SHEETS XXXX.
2. COORDINATE ALL DIMENSIONS, DETAILS, FINISHES, TIE HOLE LOCATIONS, AND BLOCKOUTS WITH ALL OF THE PROJECT CONSULTANT DRAWINGS.
3. CONTRACTORS SHALL INCLUDE IN THEIR BIDS ALL NECESSARY ALLOWANCES FOR HOT AND COLD WEATHER CONCRETING (INCLUDING BUT NOT LIMITED TO NIGHT POURS, EVAPORATION REDUCTION, HEATING, BLANKETING, CONCRETE ADMIXTURES ETC) TO COMPLETE THE PROJECT AS SCHEDULED. REFER TO SPECIFICATION SECTION 03 31 26.
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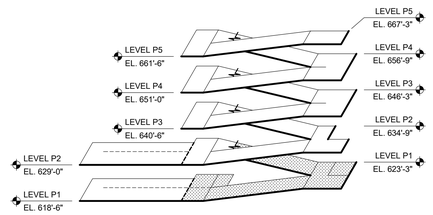
17. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPE LOCATIONS. REFER TO GENERAL NOTE 1.8 FOR MINIMUM HEADROOM CLEARANCE.
18. FOR TYPICAL PCC DETAILS REFER TO SHEETS XXXX THROUGH XXXX.

KEY NOTES

1 REINFORCE SLAB-ON-GRADE WITH #4 @ 16" OC, EACH WAY. DO NOT TERMINATE REINFORCEMENT AT CONSTRUCTION JOINTS. OMIT SMOOTH DOWELS AT CONSTRUCTION JOINTS.



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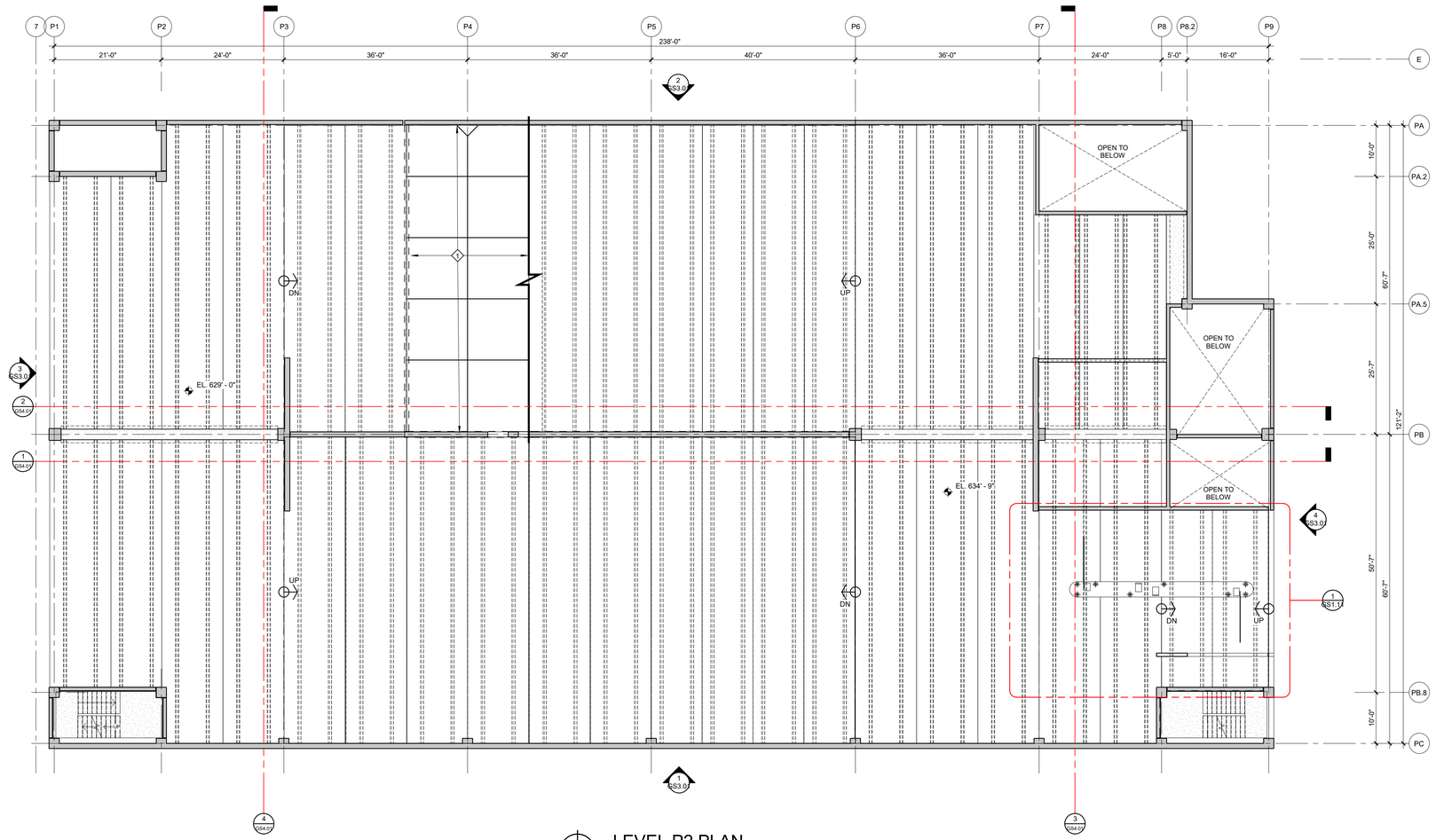
LEVEL P1 PLAN

GS1.01



LEVEL P2 PLAN

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

NORTH

PLAN SYMBOLS

	PRECAST CONCRETE BOLLARD, REFER TO SHEET XXXX FOR ADDITIONAL INFORMATION.
	6"ø ROUND STEEL POST BOLLARD, REFER TO STRUCTURAL AND SHEET XXXX FOR ADDITIONAL INFORMATION.
X	PLAN REINFORCEMENT AND MARK, REFER TO MILD STEEL SCHEDULE.
FD	INDICATES FLOOR DRAIN, REFER TO DETAILS XXXX AND XXXX. FOR ADDITIONAL INFORMATION REFER TO PLUMBING DRAWINGS.
	INDICATES HEAVY DUTY TRAFFIC BEARING MEMBRANE (DECK COATING) OVER OCCUPIED SPACE (ELECTRICAL, MECHANICAL, DATA, STORAGE ROOMS, ETC) AS SHOWN ON THE DRAWINGS. REFER TO DETAILS XX/XXXX.
FS	INDICATES FOOTING STEP, REFER TO DETAILS X & X/XXXX.
WS	INDICATES WALL STEP. LOCATE STEPS AS SHOWN ON PLAN. A WALL CONTROL JOINT SHALL BE PROVIDED AT ALL STEP LOCATIONS.
WJ	INDICATES WALL CONSTRUCTION/CONTROL JOINT LOCATION. PROVIDE WALL CONSTRUCTION/CONTROL JOINTS AT 20'-0" MAX OC OR AS SHOWN IN PLANS. REFER TO DETAIL X/XXXX.
CX	INDICATES COLUMN MARK. FOR COLUMN MARK DEFINITION REFER TO DETAILS ON SHEET XXXX.
FX	INDICATES COLUMN FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.
WX	INDICATES WALL FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.

PLAN NOTES

1. FOR GENERAL NOTES, EXPLANATION OF NOTATIONS, LOADING DIAGRAMS AND ABBREVIATIONS, REFER TO SHEETS XXXX.
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5. PROVIDE 1" GAP BETWEEN ALL FOUNDATION WALLS AND COLUMNS UNO. REFER TO DETAIL X/XXXX FOR MORE INFORMATION.
6. FOR STAIR AND ELEVATOR FOUNDATIONS AND DETAILS, REFER TO ENLARGED TOWER PLANS AND SHEETS XXXX AND XXXX.
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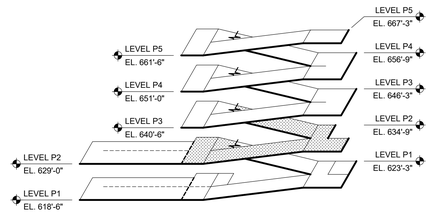
18. FOR TYPICAL PCC DETAILS REFER TO SHEETS XXXX THROUGH XXXX.

KEY NOTES

1 REINFORCE SLAB-ON-GRADE WITH #4 @ 16" OC, EACH WAY. DO NOT TERMINATE REINFORCEMENT AT CONSTRUCTION JOINTS. OMIT SMOOTH DOWELS AT CONSTRUCTION JOINTS.



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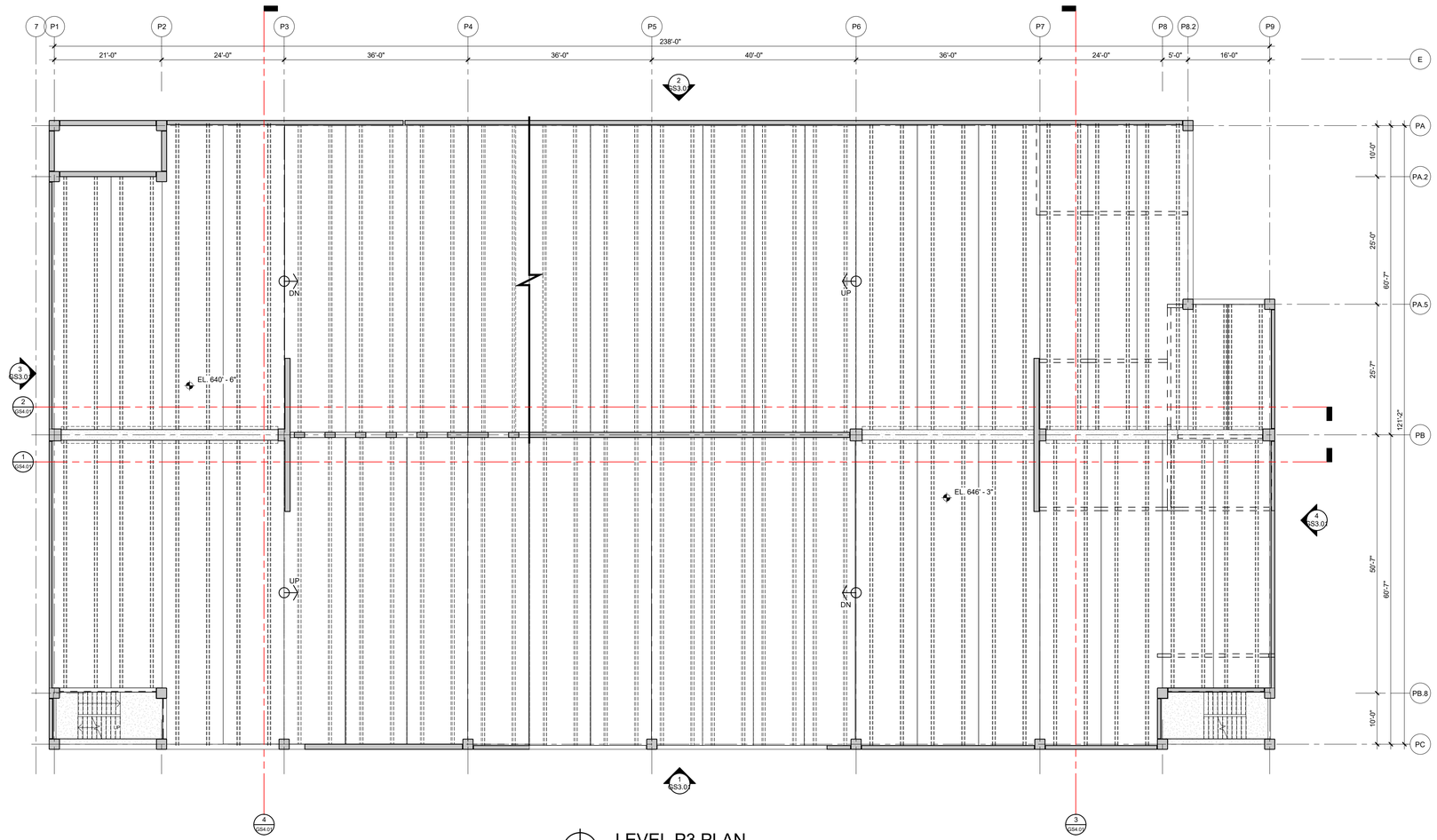
LEVEL P2 PLAN

GS1.02

Fishbeck Project No. 240899



LEVEL P3 PLAN

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

NORTH

PLAN SYMBOLS

	PRECAST CONCRETE BOLLARD, REFER TO SHEET XXXX FOR ADDITIONAL INFORMATION.
	6"⌀ ROUND STEEL POST BOLLARD, REFER TO STRUCTURAL AND SHEET XXXX FOR ADDITIONAL INFORMATION.
X	PLAN REINFORCEMENT AND MARK, REFER TO MILD STEEL SCHEDULE.
FD	INDICATES FLOOR DRAIN, REFER TO DETAILS XXXX AND XXXX. FOR ADDITIONAL INFORMATION REFER TO PLUMBING DRAWINGS.
	INDICATES HEAVY DUTY TRAFFIC BEARING MEMBRANE (DECK COATING) OVER OCCUPIED SPACE (ELECTRICAL, MECHANICAL, DATA, STORAGE ROOMS, ETC) AS SHOWN ON THE DRAWINGS. REFER TO DETAILS XX/XXXX.
FS	INDICATES FOOTING STEP, REFER TO DETAILS X & X/XXXX.
WS	INDICATES WALL STEP. LOCATE STEPS AS SHOWN ON PLAN. A WALL CONTROL JOINT SHALL BE PROVIDED AT ALL STEP LOCATIONS.
WJ	INDICATES WALL CONSTRUCTION/CONTROL JOINT LOCATION. PROVIDE WALL CONSTRUCTION/CONTROL JOINTS AT 20'-0" MAX OC OR AS SHOWN IN PLANS. REFER TO DETAIL X/XXXX.
CX	INDICATES COLUMN MARK. FOR COLUMN MARK DEFINITION REFER TO DETAILS ON SHEET XXXX.
FX	INDICATES COLUMN FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.
WX	INDICATES WALL FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.

PLAN NOTES

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5. PROVIDE 1" GAP BETWEEN ALL FOUNDATION WALLS AND COLUMNS UNO. REFER TO DETAIL X/XXXX FOR MORE INFORMATION.
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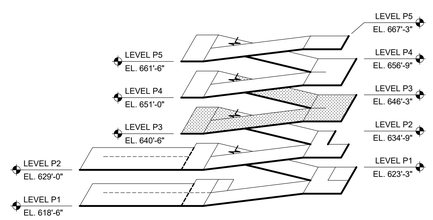
KEY NOTES



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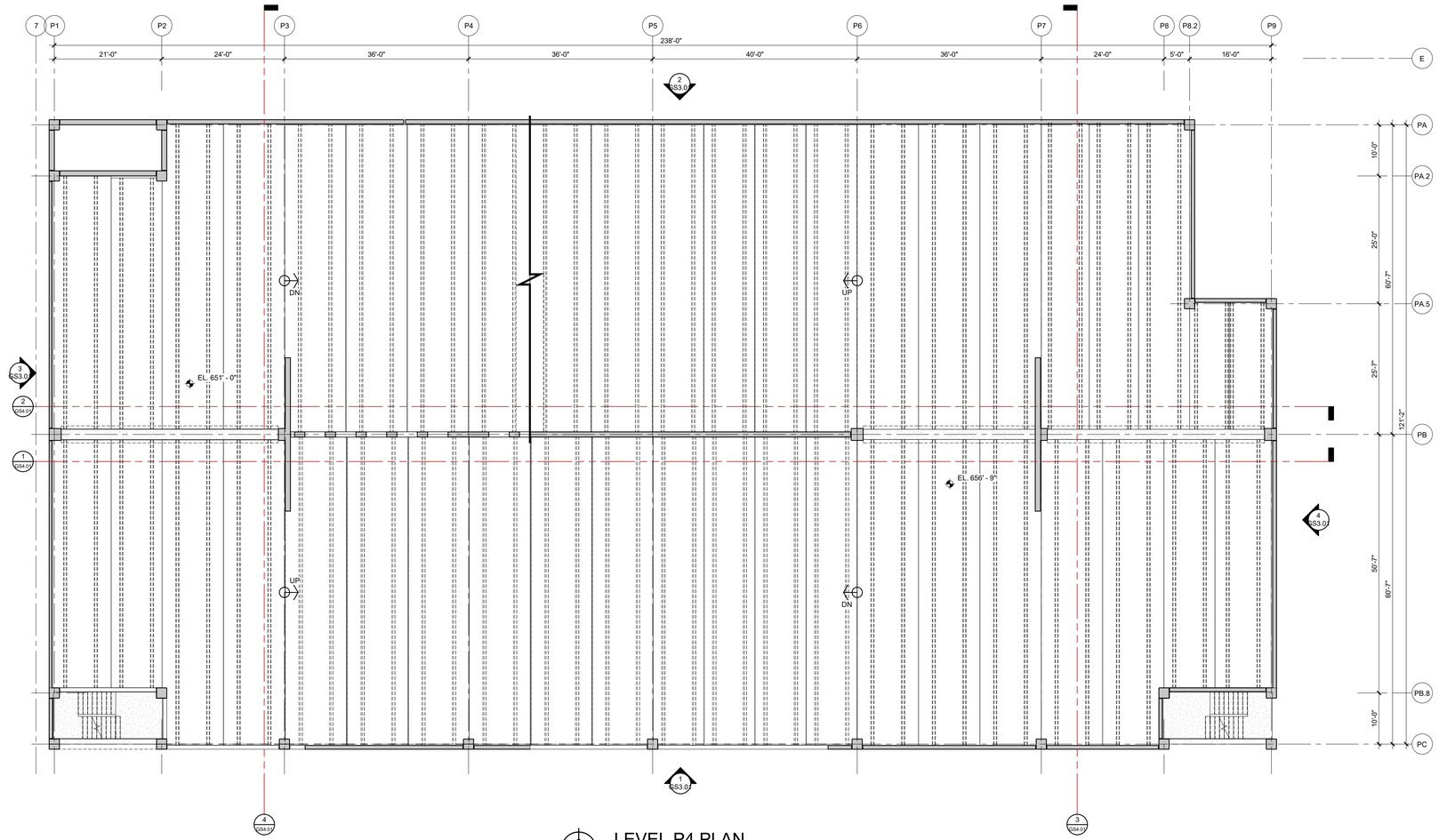
LEVEL P3 PLAN

GS1.03

Fishbeck Project No. 240899



LEVEL P4 PLAN

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

NORTH

PLAN SYMBOLS

	PRECAST CONCRETE BOLLARD, REFER TO SHEET XXXX FOR ADDITIONAL INFORMATION.
	6"ø ROUND STEEL POST BOLLARD, REFER TO STRUCTURAL AND SHEET XXXX FOR ADDITIONAL INFORMATION.
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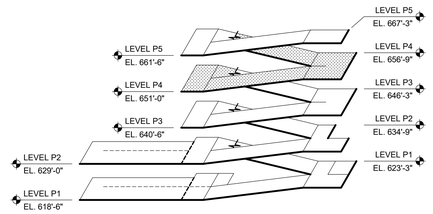
18. FOR TYPICAL PCC DETAILS REFER TO SHEETS XXXX THROUGH XXXX.

KEY NOTES



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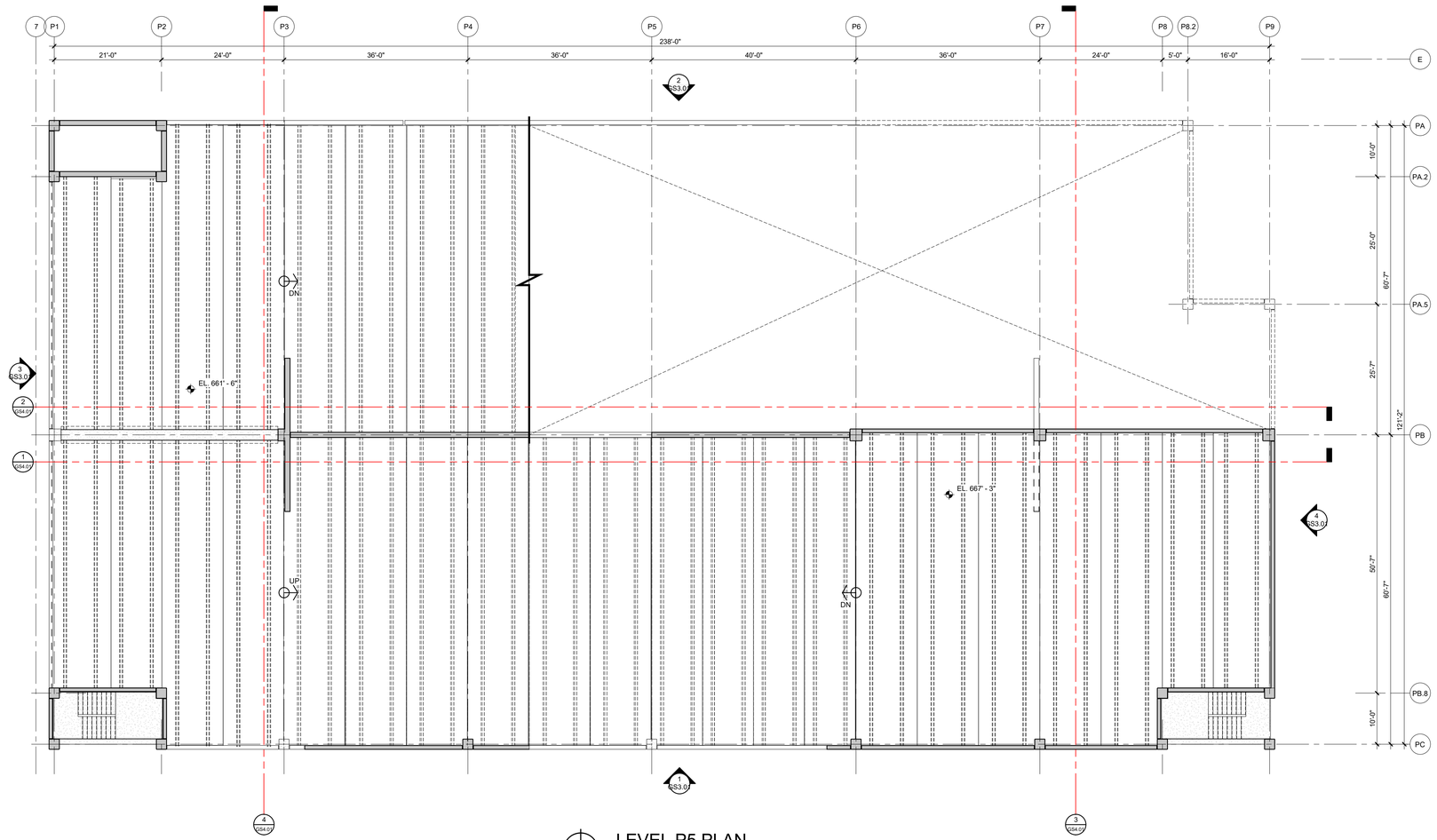
LEVEL P4 PLAN

GS1.04



LEVEL P5 PLAN

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

NORTH

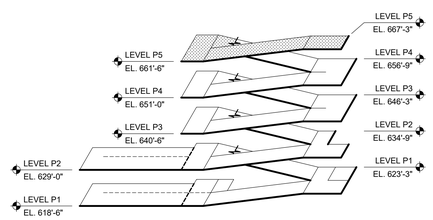
PLAN SYMBOLS

	PRECAST CONCRETE BOLLARD, REFER TO SHEET XXXX FOR ADDITIONAL INFORMATION.
	6"ø ROUND STEEL POST BOLLARD, REFER TO STRUCTURAL AND SHEET XXXX FOR ADDITIONAL INFORMATION.
X	PLAN REINFORCEMENT AND MARK, REFER TO MILD STEEL SCHEDULE.
FD	INDICATES FLOOR DRAIN, REFER TO DETAILS XXXX AND XXXX. FOR ADDITIONAL INFORMATION REFER TO PLUMBING DRAWINGS.
	INDICATES HEAVY DUTY TRAFFIC BEARING MEMBRANE (DECK COATING) OVER OCCUPIED SPACE (ELECTRICAL, MECHANICAL, DATA, STORAGE ROOMS, ETC) AS SHOWN ON THE DRAWINGS. REFER TO DETAILS XX/XXXX.
FS	INDICATES FOOTING STEP, REFER TO DETAILS X & X/XXXX.
WS	INDICATES WALL STEP. LOCATE STEPS AS SHOWN ON PLAN. A WALL CONTROL JOINT SHALL BE PROVIDED AT ALL STEP LOCATIONS.
WJ	INDICATES WALL CONSTRUCTION/CONTROL JOINT LOCATION. PROVIDE WALL CONSTRUCTION/CONTROL JOINTS AT 20'-0" MAX OC OR AS SHOWN IN PLANS. REFER TO DETAIL X/XXXX.
CX	INDICATES COLUMN MARK. FOR COLUMN MARK DEFINITION REFER TO DETAILS ON SHEET XXXX.
FX	INDICATES COLUMN FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.
WX	INDICATES WALL FOOTING MARK. FOR FOOTING SIZE AND REINFORCEMENT REFER TO FOOTING SCHEDULE ON SHEET S100.

PLAN NOTES

1. FOR GENERAL NOTES, EXPLANATION OF NOTATIONS, LOADING DIAGRAMS AND ABBREVIATIONS, REFER TO SHEETS XXXX.
2. COORDINATE ALL DIMENSIONS, DETAILS, FINISHES, TIE HOLE LOCATIONS, AND BLOCKOUTS WITH ALL OF THE PROJECT CONSULTANT DRAWINGS.
3. CONTRACTORS SHALL INCLUDE IN THEIR BIDS ALL NECESSARY ALLOWANCES FOR HOT AND COLD WEATHER CONCRETING (INCLUDING BUT NOT LIMITED TO NIGHT POURS, EVAPORATION REDUCTION, HEATING, BLANKETING, CONCRETE ADMIXTURES ETC) TO COMPLETE THE PROJECT AS SCHEDULED. REFER TO SPECIFICATION SECTION 03 31 26.
4. FLOOR ELEVATIONS AS INDICATED DESIGNATE TOP OF CONCRETE SLAB AT COLUMN CENTERLINE. ELEVATIONS DO NOT INCLUDE CONCRETE WASHES, BEAMS, CURBS, ETC. FOR ELEVATION KEY, REFER TO DETAIL X/XXXX. FOR FLOOR ELEVATIONS BETWEEN POINTS INDICATED, USE STRAIGHT LINE INTERPOLATION.
5. PROVIDE 1" GAP BETWEEN ALL FOUNDATION WALLS AND COLUMNS UNO. REFER TO DETAIL X/XXXX FOR MORE INFORMATION.
6. FOR STAIR AND ELEVATOR FOUNDATIONS AND DETAILS, REFER TO ENLARGED TOWER PLANS AND SHEETS XXXX AND XXXX.
7. FOR C.I.P. WALL DETAILS, REFER TO SHEETS XXXX THROUGH XXXX.
8. FOR COLUMN MARKS REFER TO SHEET XXXX AND ENLARGED PLANS. FOR COLUMN MARK DEFINITION REFER TO DETAILS ON SHEET XXXX.
9. SLAB-ON-GRADE SHALL BE A MINIMUM OF 5" THICK CONCRETE. SLAB-ON-GRADE SHALL BE REINFORCED WITH EITHER STRUCTURAL MACRO FIBERS OR REBAR AS INDICATED IN PLANS.
10. PROVIDE VAPOR BARRIER/RETARDER IMMEDIATELY BELOW CONCRETE SLAB-ON-GRADE FOR ALL ENCLOSED ROOMS. DO NOT PROVIDE VAPOR BARRIER/RETARDER IN PARKING AND DRIVE AREAS.
11. CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE HAND-TOOLED OR SAW-CUT IN ACCORDANCE WITH DETAIL X/XXXX, TOOLED TO PROPER PROFILE, AND FILLED WITH SEALANT.
12. ROUT AND SEAL OR GRAVITY FEED EPOXY CRACKS IN THE SLAB-ON-GRADE, REFER TO DETAIL XXXXX.
13. PROVIDE CONCRETE SEALER ON ON ALL SLAB SURFACES AND AS DESCRIBED IN THE GENERAL NOTES.
14. FOR SEALANT, DECK COATING, AND EXPANSION JOINT DETAILS, REFER TO SHEETS XXXX AND XXXX.
15. FOR MASONRY DETAILS, REFER TO SHEET XXXX.
16. ALL VERTICAL RISERS FOR PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS SHALL BE PROTECTED WITH GALVANIZED PIPE GUARDS, REFER TO DETAIL X/XXXX.
17. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR PIPE LOCATIONS. REFER TO GENERAL NOTE 1.8 FOR MINIMUM HEADROOM CLEARANCE.
18. FOR TYPICAL PCC DETAILS REFER TO SHEETS XXXX THROUGH XXXX.

KEY NOTES



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LEVEL P5 PLAN

GS1.05

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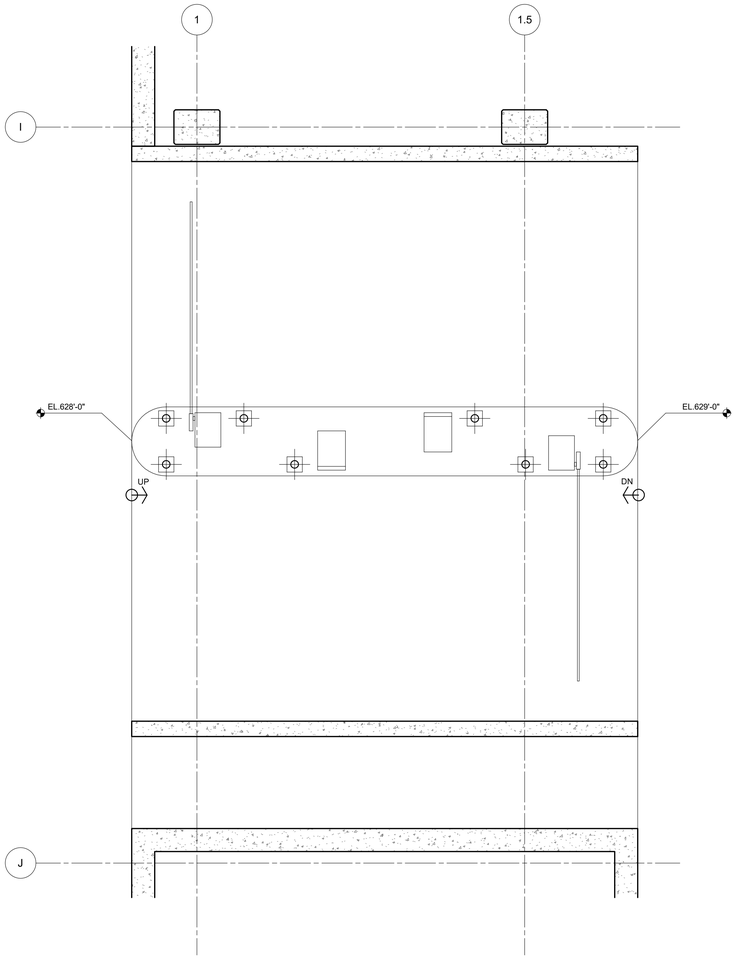
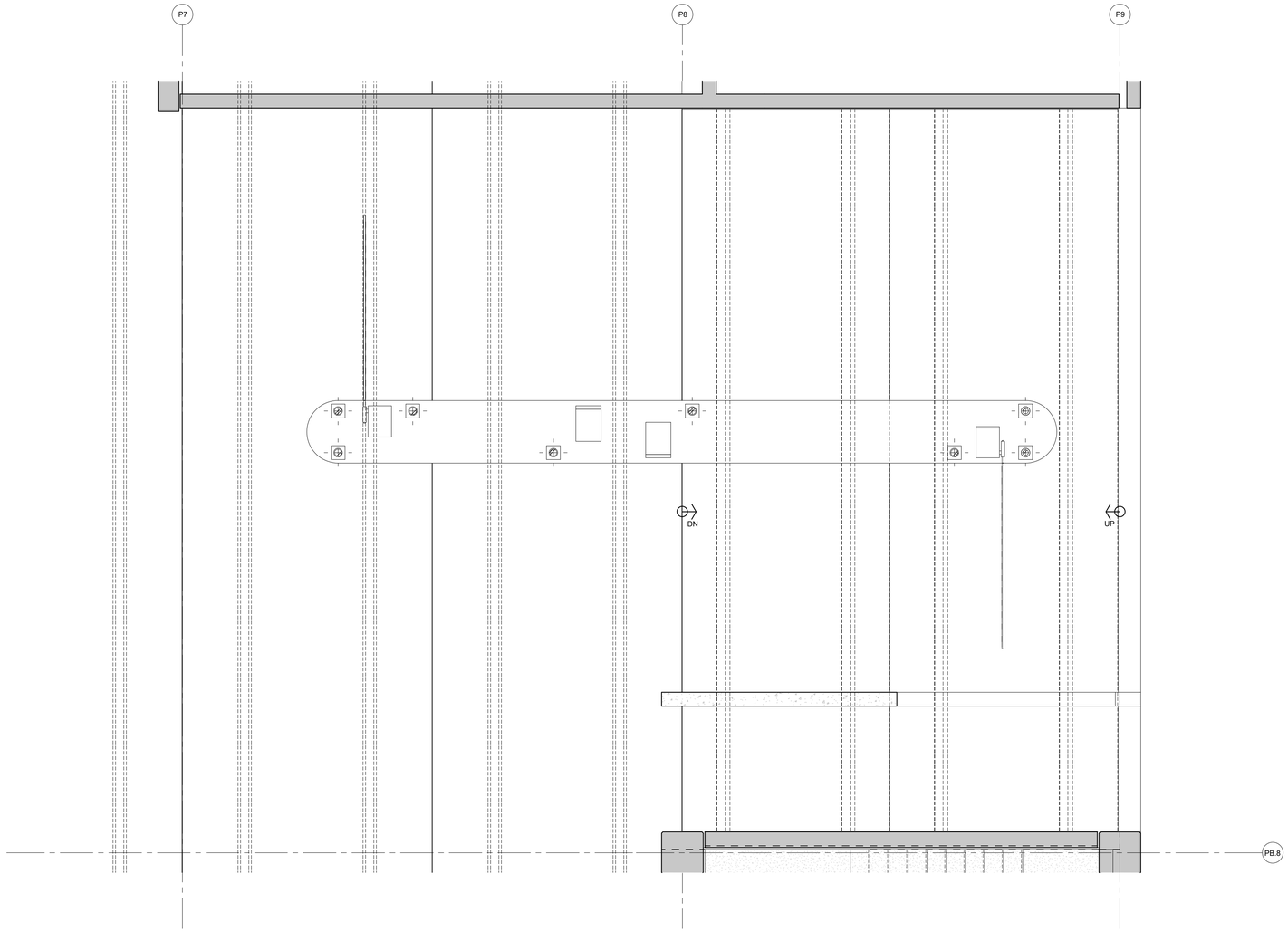


2 ENLARGED PLAN - WEST ENTRY-EXIT PLAN
SCALE: 3/8" = 1'-0"



1 ENLARGED PLAN - EAST ENTRY-EXIT PLAN
SCALE: 3/8" = 1'-0"

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ENLARGED PLANS

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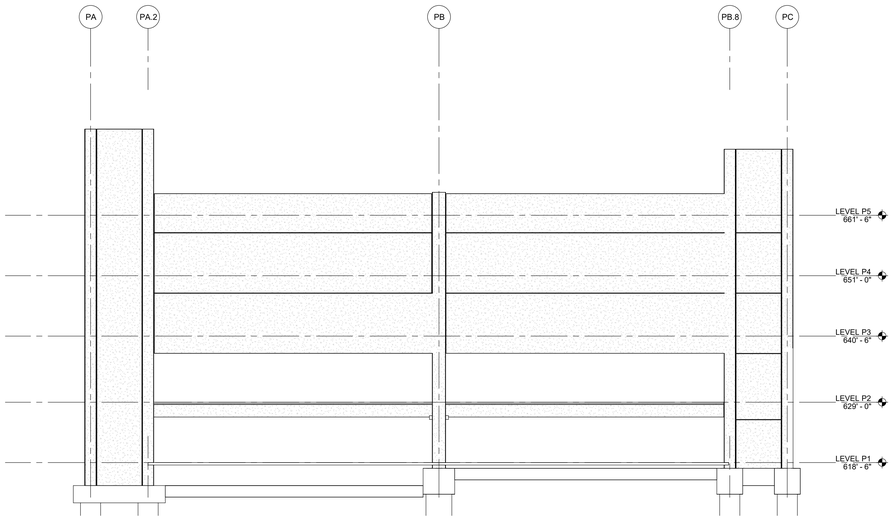
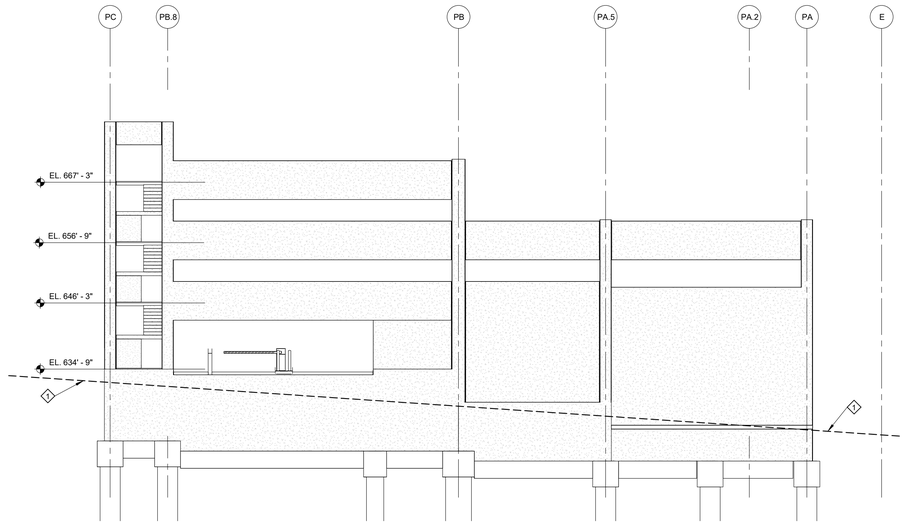
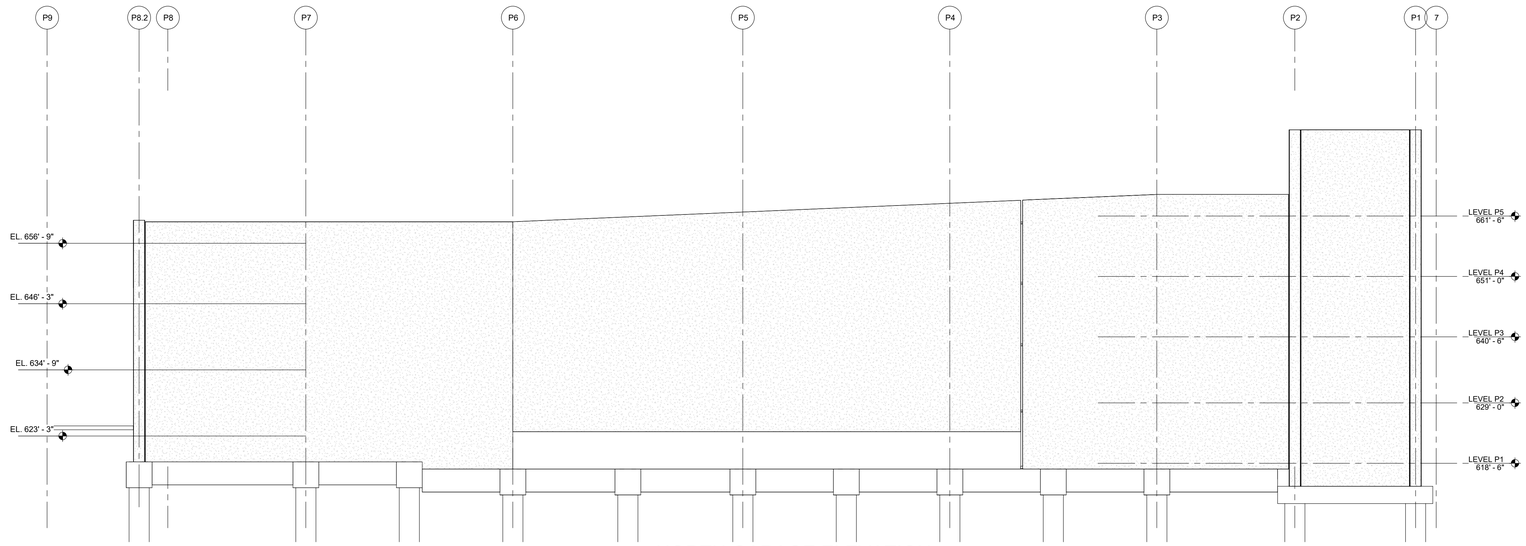


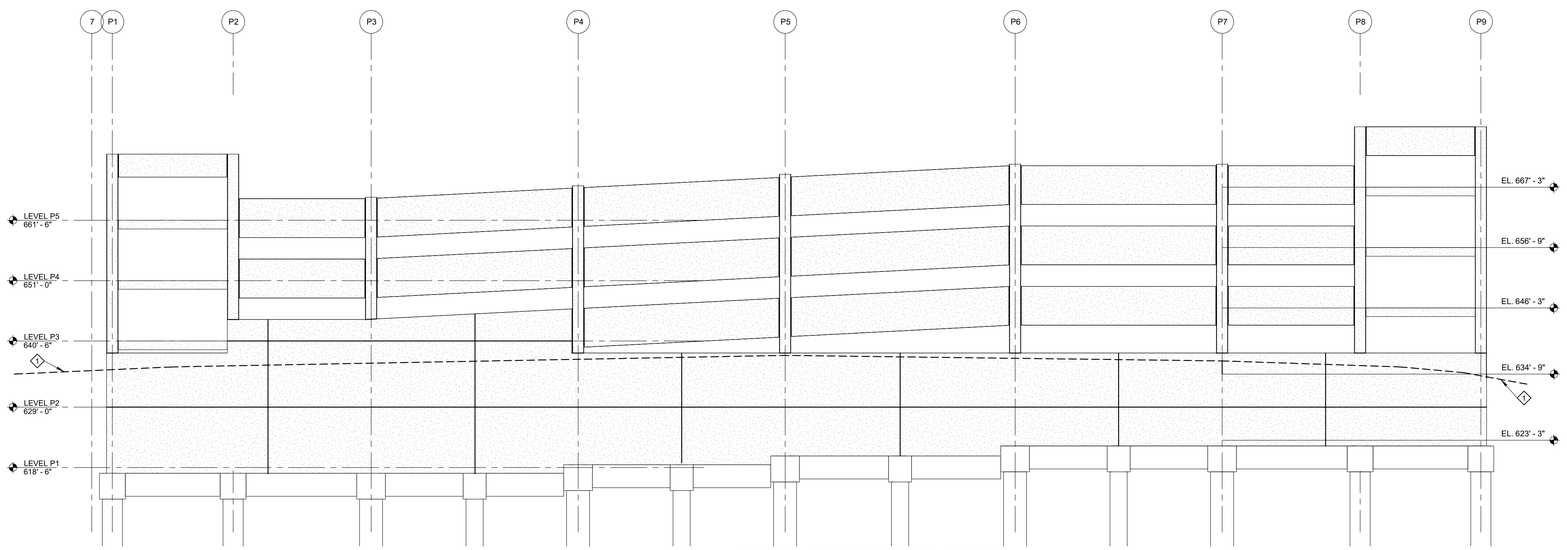
3 WEST GARAGE ELEVATION
SCALE: 3/32" = 1'-0"



4 EAST GARAGE ELEVATION
SCALE: 3/32" = 1'-0"



2 NORTH GARAGE ELEVATION
SCALE: 3/32" = 1'-0"



1 SOUTH GARAGE ELEVATION
SCALE: 3/32" = 1'-0"

KEY NOTES

1 EXISTING GRADE LINE

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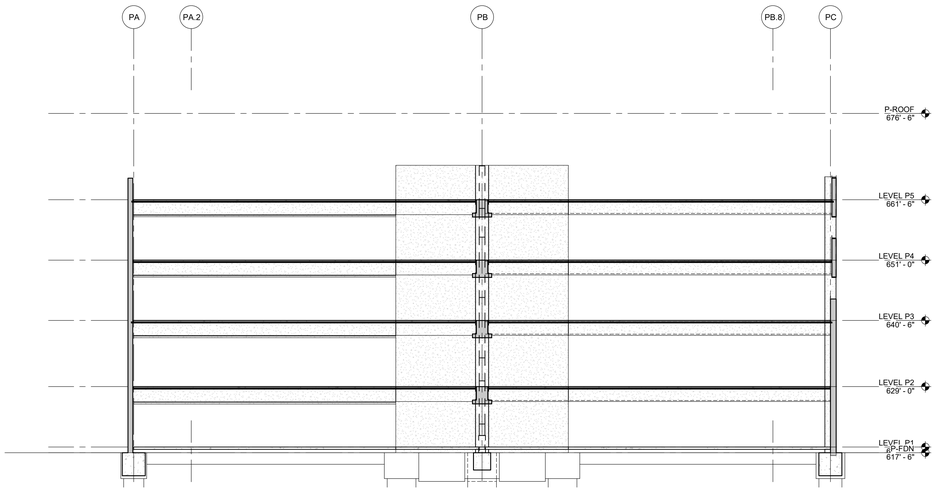
ELEVATIONS

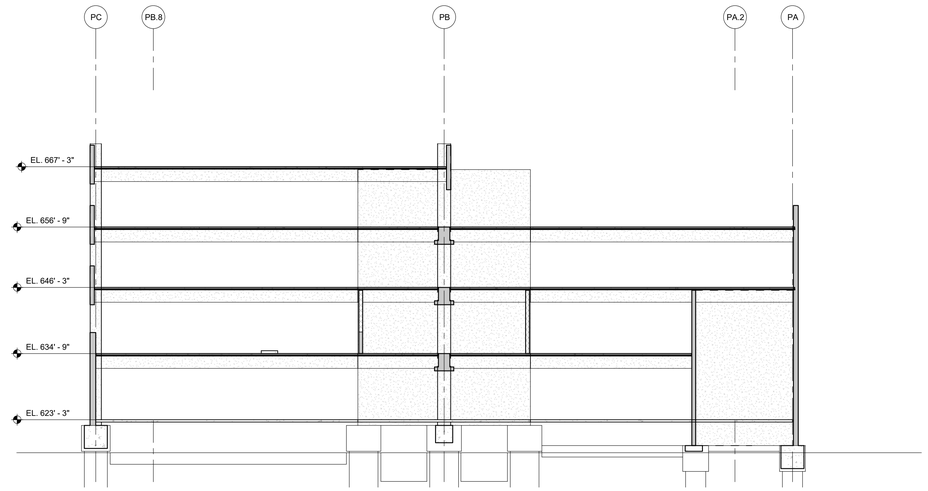
GS3.01



GRID P3 - LOOKING EAST

4 BUILDING SECTION

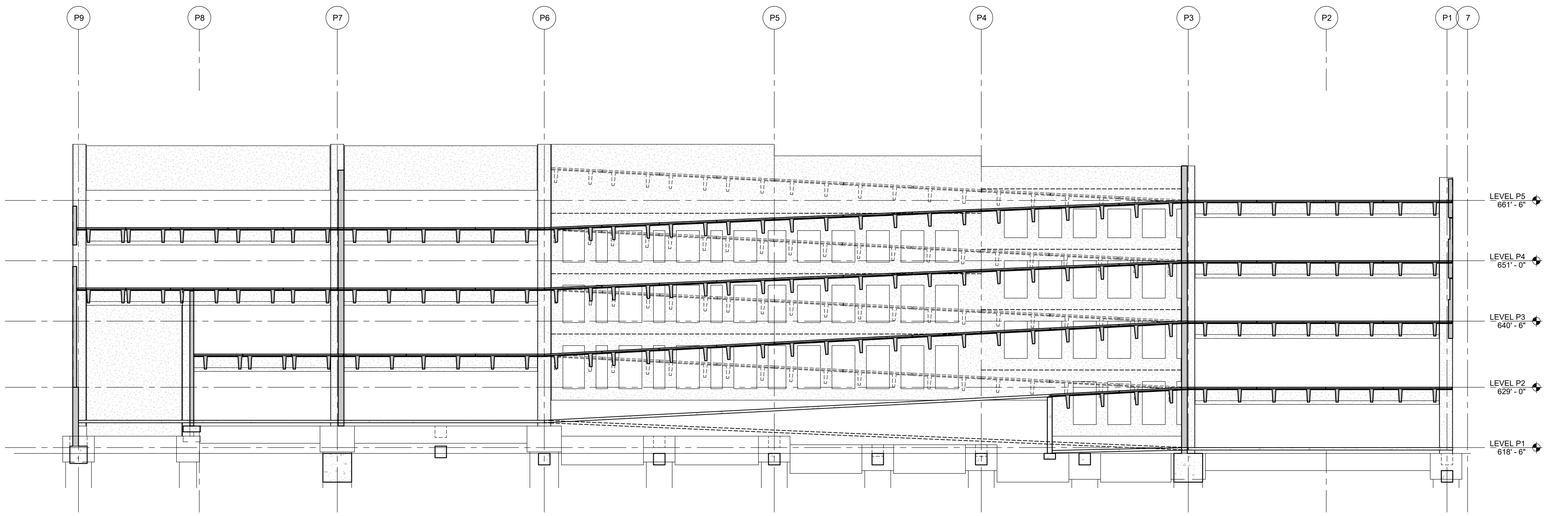
SCALE: 3/32" = 1'-0"



GRID P7 - LOOKING WEST

3 BUILDING SECTION

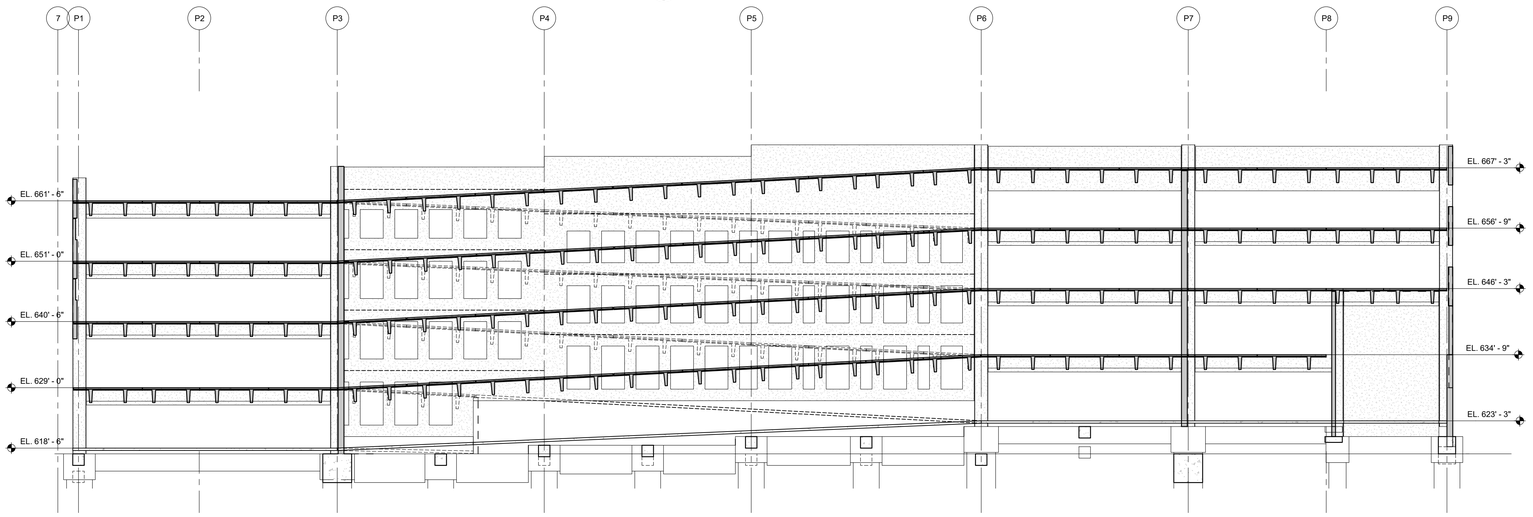
SCALE: 3/32" = 1'-0"



GRID PB - LOOKING SOUTH

2 BUILDING SECTION

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



GRID PB - LOOKING NORTH

1 BUILDING SECTION

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

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BUILDING SECTIONS

GS4.01

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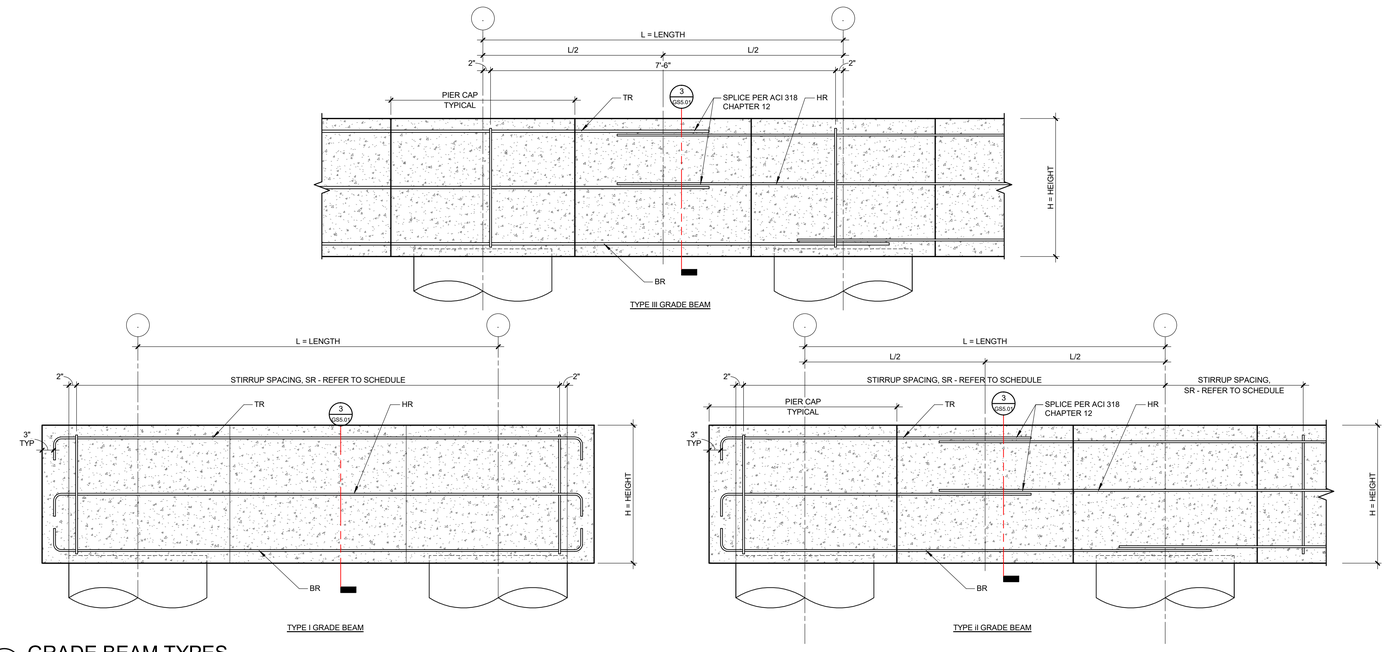
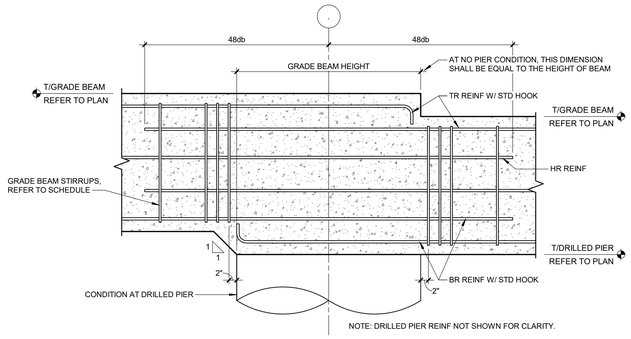


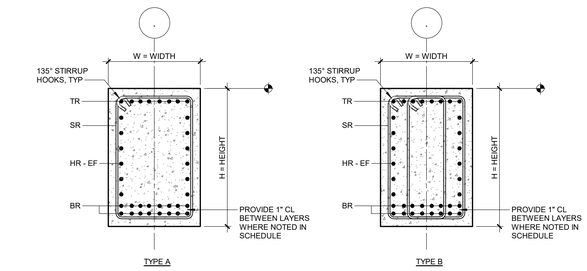
5 GRADE BEAM TYPES

SCALE: NOT TO SCALE



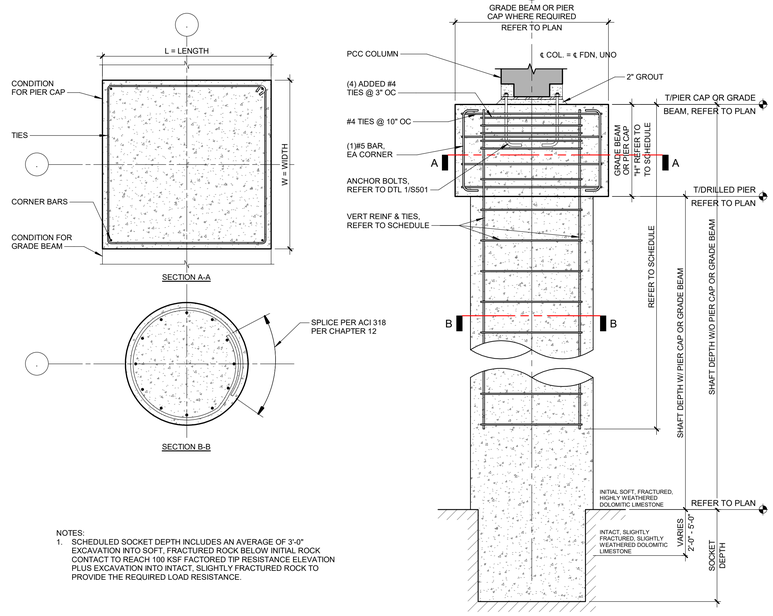
4 STEPPED GRADE BEAM DETAIL

SCALE: NOT TO SCALE



3 GRADE BEAM DETAIL

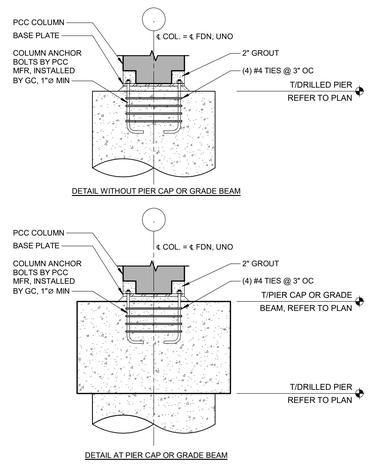
SCALE: NOT TO SCALE



NOTES:
1. SCHEDULED SOCKET DEPTH INCLUDES AN AVERAGE OF 3'-0" EXCAVATION INTO SOFT, FRACTURED ROCK BELOW INITIAL ROCK CONTACT TO REACH 100 KSF FACTORED TIP RESISTANCE ELEVATION PLUS EXCAVATION INTO INTACT, SLIGHTLY FRACTURED ROCK TO PROVIDE THE REQUIRED LOAD RESISTANCE.

2 DRILLED PIER DETAIL

SCALE: NOT TO SCALE



1 DRILLED PIER DETAIL

SCALE: NOT TO SCALE

GRADE BEAM SCHEDULE

MARK	WIDTH	HEIGHT	TR	BR	HR	SR	TYPE	REMARKS
GB1	5'-0"	5'-0"						
GB2	4'-0"	4'-0"						
GB3	3'-0"	3'-0"						
GB4	2'-0"	3'-0"						
GB5	2'-0"	2'-0"						

DRILLED PIER CAP SCHEDULE

MARK	WIDTH	LENGTH	HEIGHT	REINFORCEMENT	REMARKS
DPC1					
DPC2					
DPC3					
DPC4					

DRILLED PIER SCHEDULE

MARK	SHAFT DIAMETER	SOCKET DIAMETER	SOCKET DEPTH	VERTICAL REINF.	VERTICAL REINF....	REINF. TIES	REMARKS
DP3.0	3'-0"	2'-6"					
DP3.5	3'-6"	3'-0"					
DP4.0	4'-0"	3'-6"					
DP4.5	4'-6"	4'-0"					
DP5.0	5'-0"	4'-6"					

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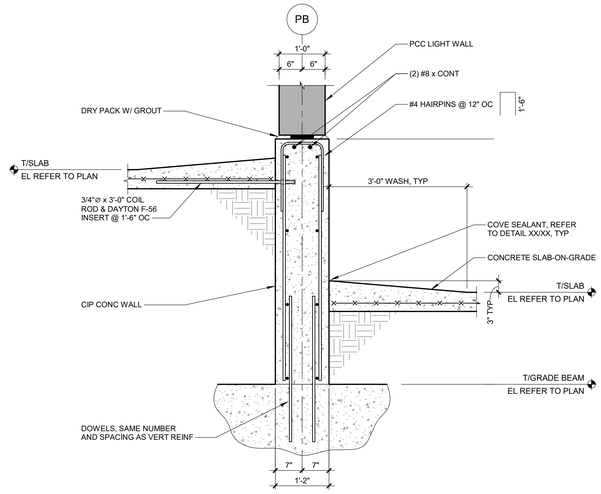
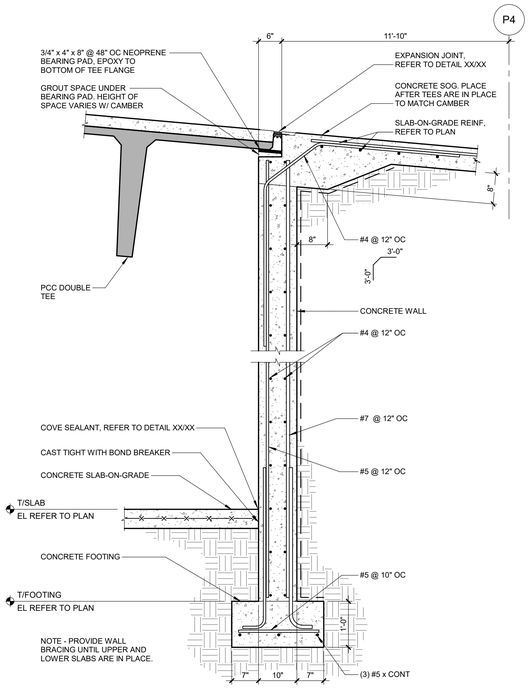


2 SECTION
SCALE: 3/4" = 1'-0"



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

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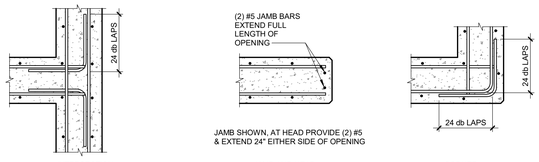
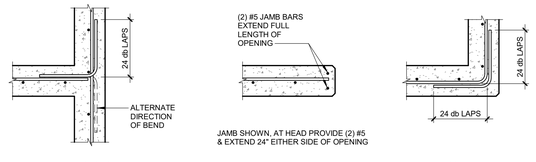


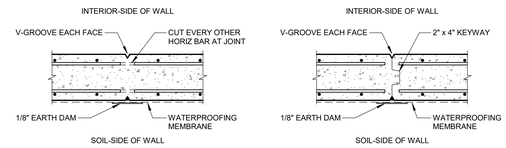
NOTE - PROVIDE CORNER BARS AT ALL INTERSECTIONS, SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.

10 CAST-IN-PLACE WALL DETAIL
SCALE: 3/4" = 1'-0"



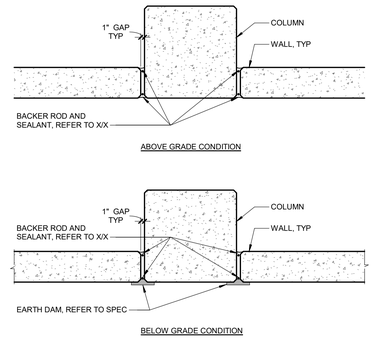
NOTE - PROVIDE CORNER BARS AT ALL INTERSECTIONS, SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.

9 CAST-IN-PLACE WALL DETAIL
SCALE: 3/4" = 1'-0"

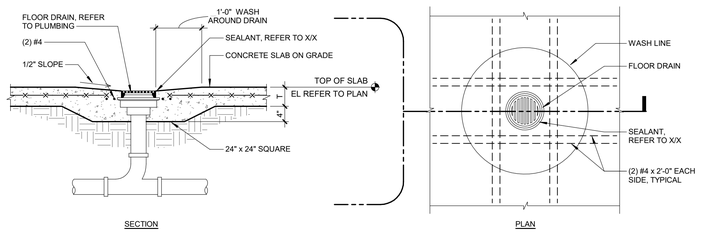


NOTE - FOR 8" PROVIDE 1" V-GROOVE ON EACH SIDE OF WALL OR LARGER. PROVIDE 1" V-GROOVE AT INSIDE FACE OF ALL AND 1 1/2" V-GROOVE AT SOIL-SIDE OF WALL. RETURN 1" JOINT ACROSS TOP OF WALL, TYPICAL.

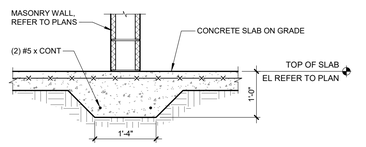
8 CAST-IN-PLACE WALL JOINT DETAIL
SCALE: 3/4" = 1'-0"



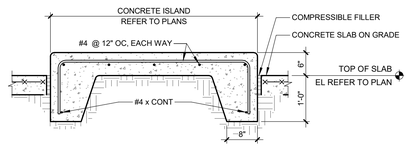
7 CAST-IN-PLACE WALL DETAIL
SCALE: 3/4" = 1'-0"



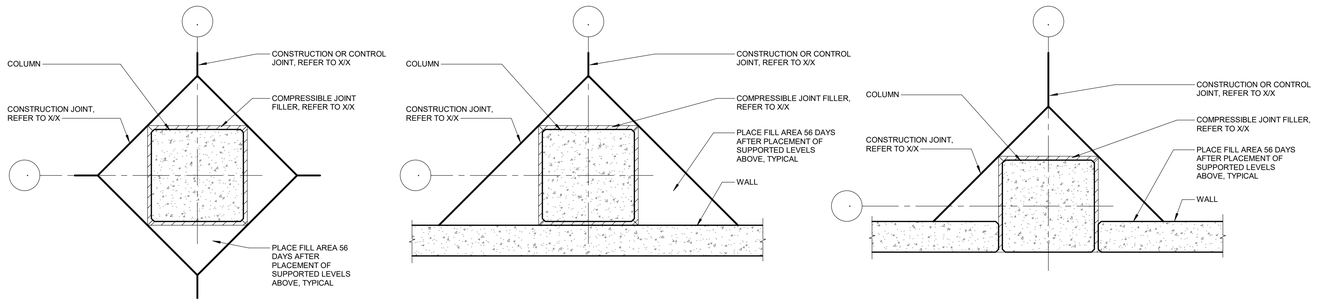
6 SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



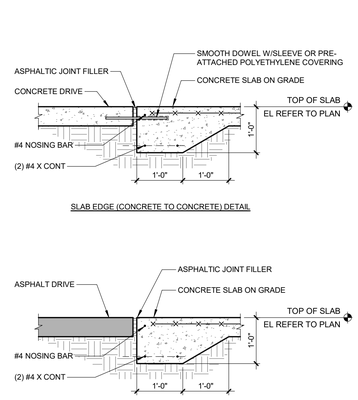
5 SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



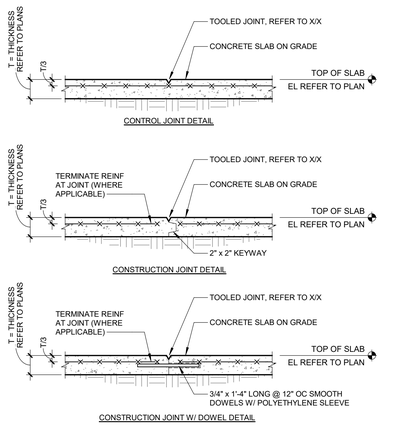
4 SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



3 SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



2 SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



1 SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"

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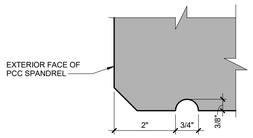
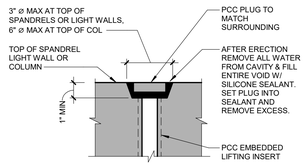
SLAB ON GRADE AND CAST-IN-PLACE WALL DETAILS

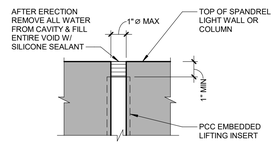
GS5.11



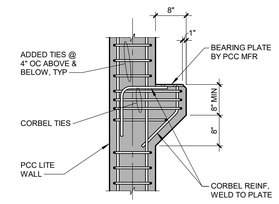
18 SECTION
SCALE: 6" = 1'-0"



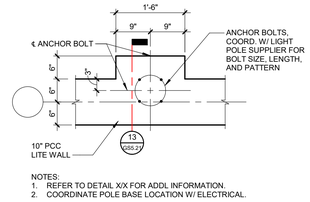
17 SECTION
SCALE: 3" = 1'-0"



16 SECTION
SCALE: 3" = 1'-0"

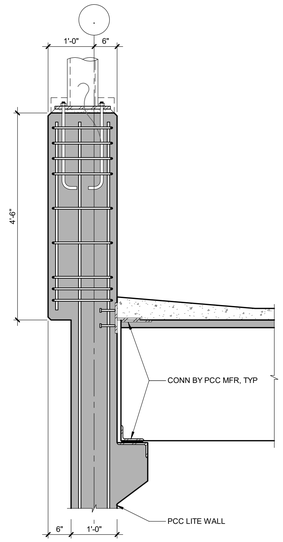


15 SECTION
SCALE: 3/4" = 1'-0"

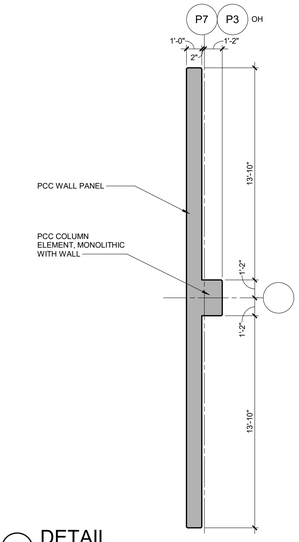


NOTES:
1. REFER TO DETAIL X/X FOR ADDL INFORMATION.
2. COORDINATE POLE BASE LOCATION W/ ELECTRICAL.

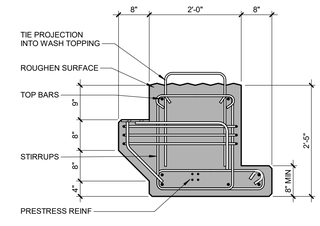
14 SECTION
SCALE: 3/4" = 1'-0"



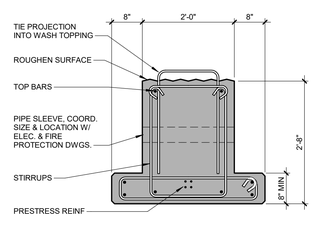
13 SECTION
SCALE: 3/4" = 1'-0"



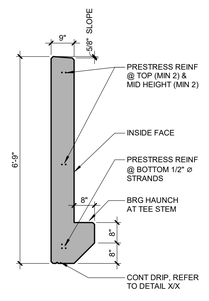
12 DETAIL
SCALE: 1/4" = 1'-0"



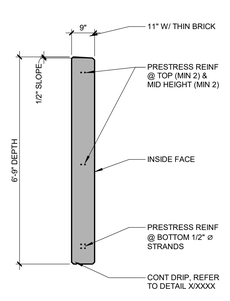
11 SECTION
SCALE: 3/4" = 1'-0"



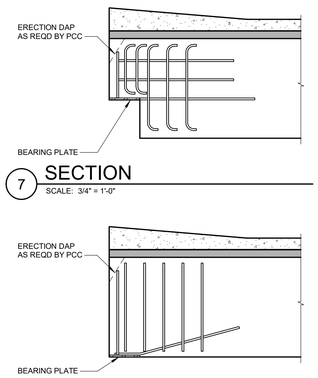
10 SECTION
SCALE: 3/4" = 1'-0"



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

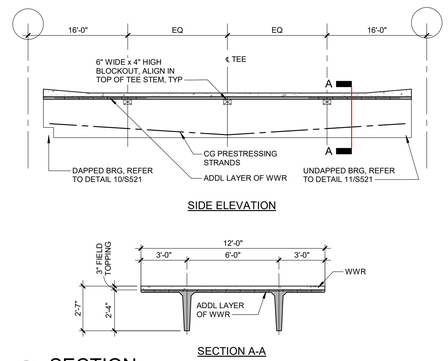


8 SECTION
SCALE: 1/2" = 1'-0"

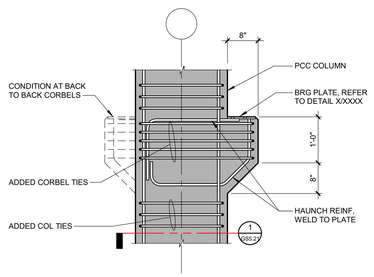


7 SECTION
SCALE: 3/4" = 1'-0"

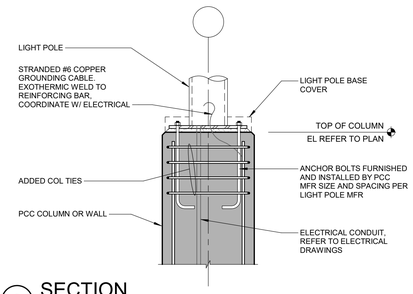
6 SECTION
SCALE: 3/4" = 1'-0"



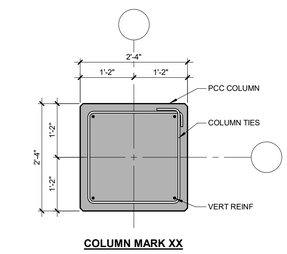
5 SECTION
SCALE: 1/4" = 1'-0"



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

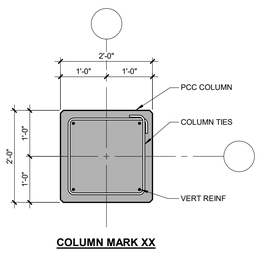


3 SECTION
SCALE: 3/4" = 1'-0"



COLUMN MARK XX

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



COLUMN MARK XX

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

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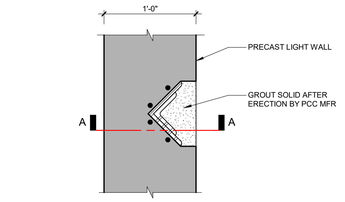
SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

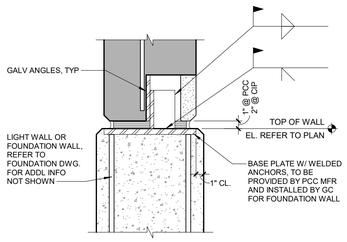
PCC ELEMENT DETAILS

GS5.21

Fishbeck Project No. 240899

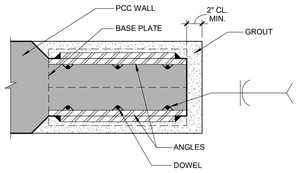


PLAN

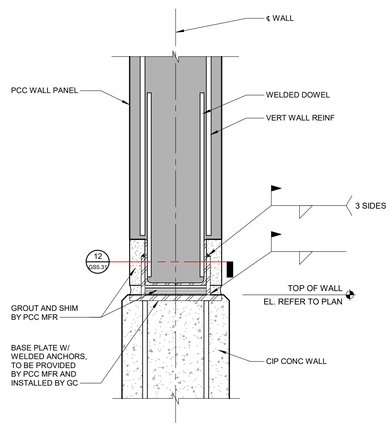


SECTION A-A

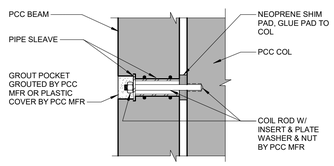
13 SECTION
SCALE: 1 1/2" = 1'-0"



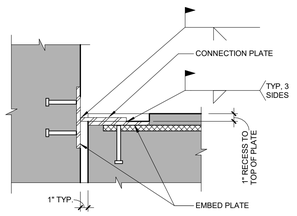
12 SECTION
SCALE: 1 1/2" = 1'-0"



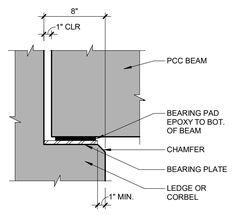
11 SECTION
SCALE: 1 1/2" = 1'-0"



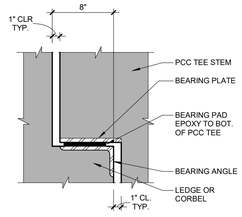
10 SECTION
SCALE: 1 1/2" = 1'-0"



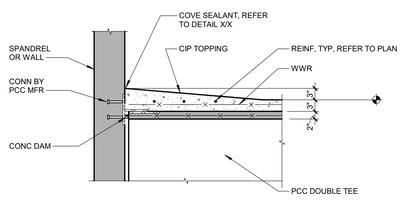
9 SECTION
SCALE: 1 1/2" = 1'-0"



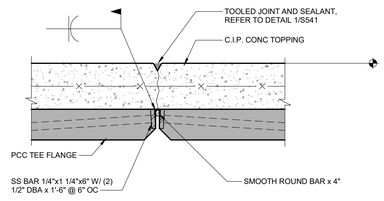
8 SECTION
SCALE: 1 1/2" = 1'-0"



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

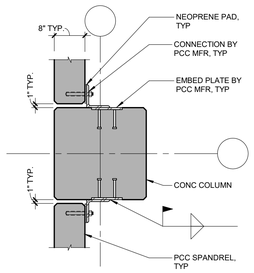


6 SECTION
SCALE: 3/4" = 1'-0"

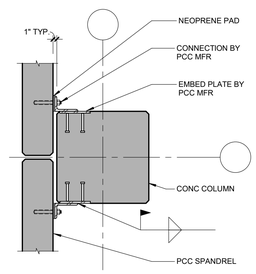


NOTES -
1. BARS OF VARIOUS SIZES MAY BE REQUIRED DEPENDING UPON FIELD CONDITIONS. PRECASTER SHALL KEEP ADEQUATE SUPPLY OF SIZES ON SITE TO FACILITATE ERECTION.
2. PREMANUFACTURED SPECIALTY HARDWARE (SS) IS ACCEPTABLE SUBJECT TO REVIEW AND APPROVAL OF THE ENGINEER.

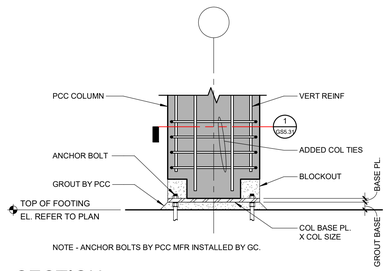
5 SECTION
SCALE: 3" = 1'-0"



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

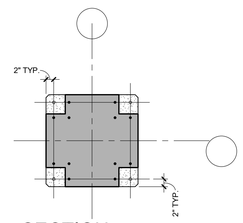


3 SECTION
SCALE: 3/4" = 1'-0"



NOTE - ANCHOR BOLTS BY PCC MFR INSTALLED BY GC.

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



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

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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD PUBLIC / PRIVATE LLC

220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

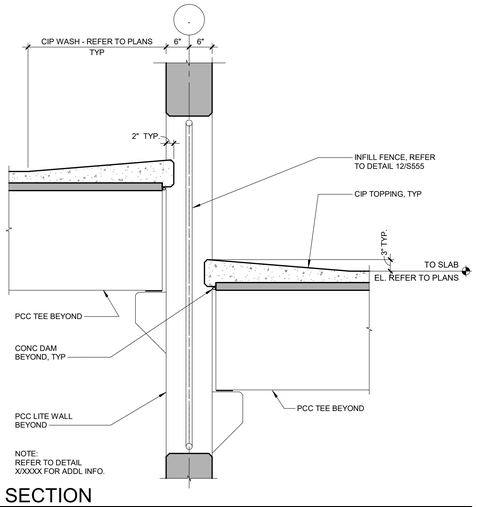
SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

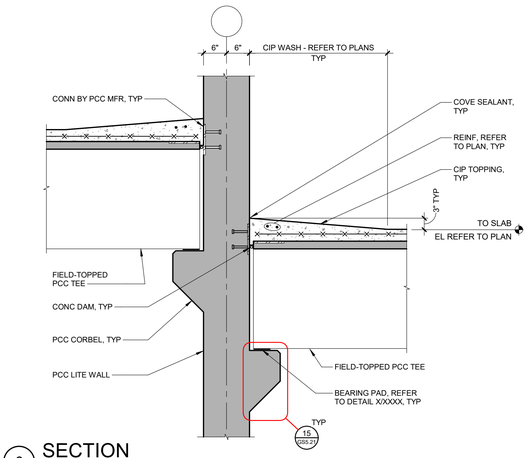
PCC CONNECTION DETAILS

GS5.31

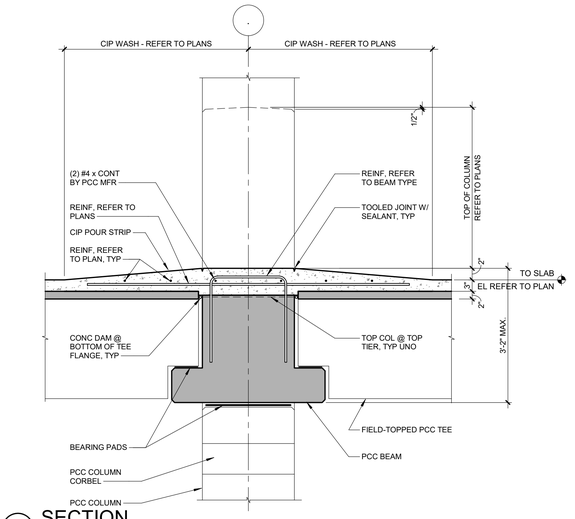
Fishbeck Project No. 240899



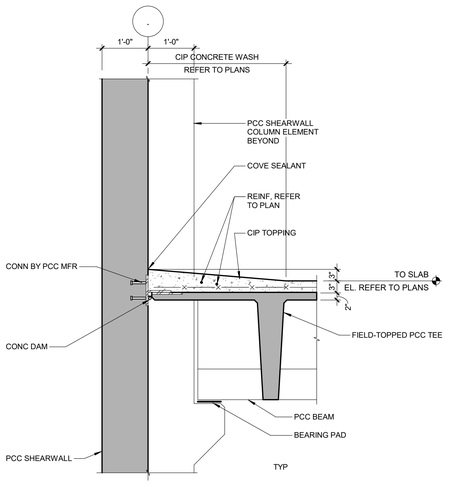
7 SECTION
SCALE: 3/4" = 1'-0"



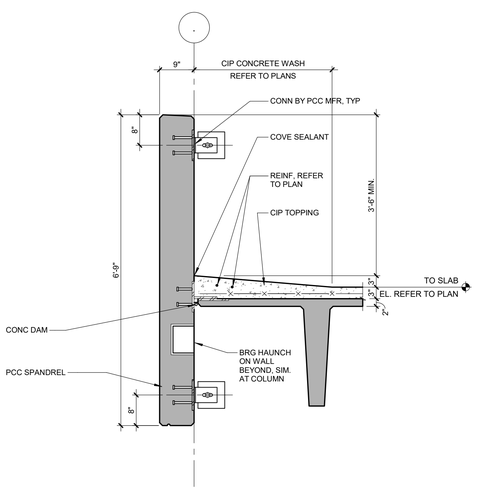
6 SECTION
SCALE: 3/4" = 1'-0"



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



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



3 SECTION
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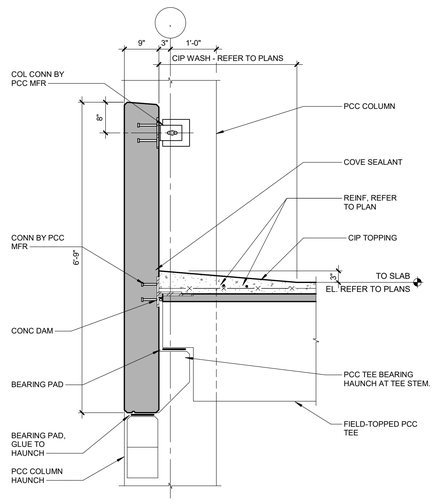
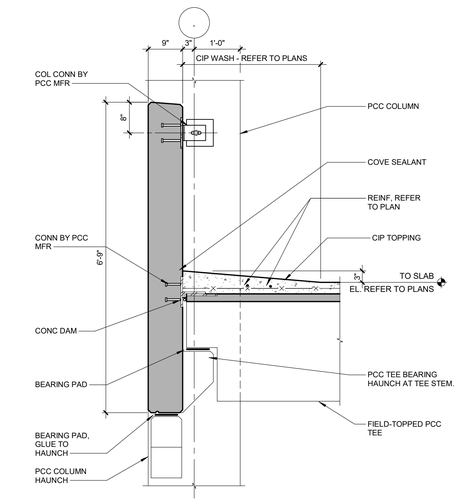


2 SECTION
SCALE: 3/4" = 1'-0"



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

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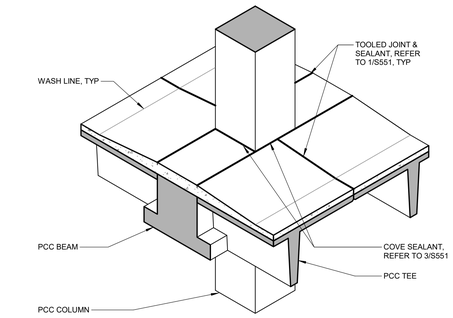
SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

PCC FRAMING DETAILS

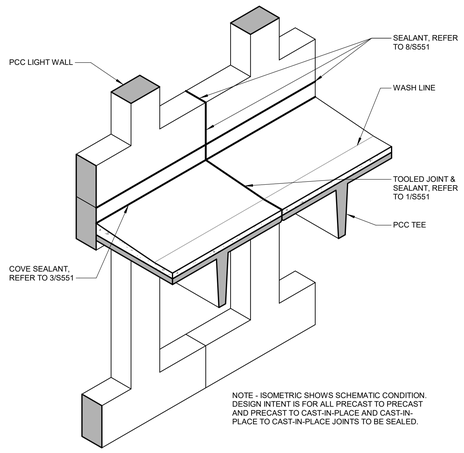
GS5.41

Fishbeck Project No. 240899



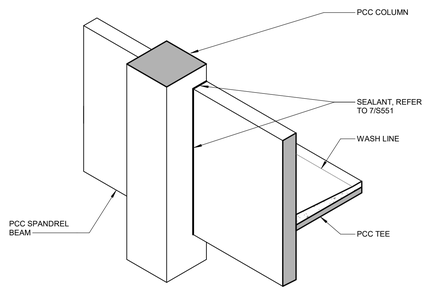
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

11 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



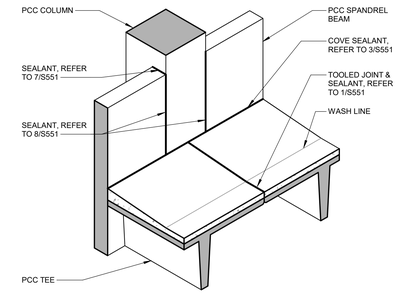
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

8 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



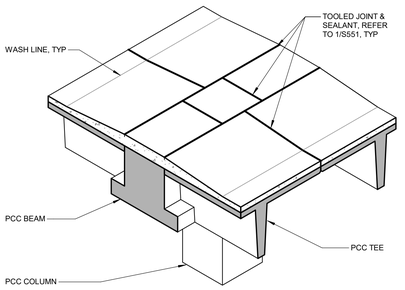
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

7 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



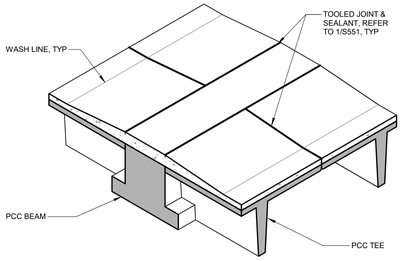
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

6 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



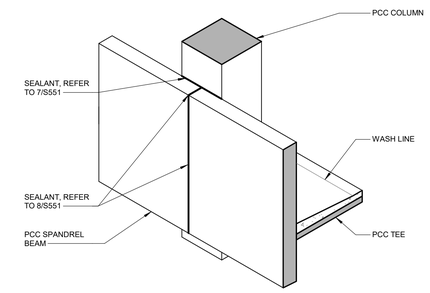
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

10 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



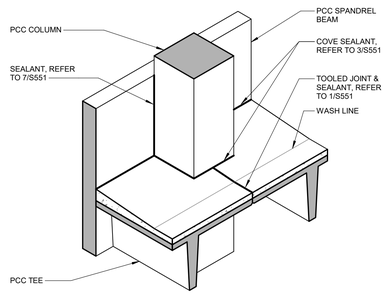
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

9 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



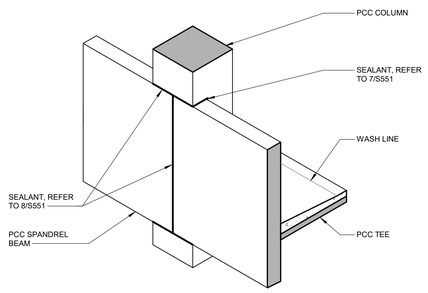
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

5 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



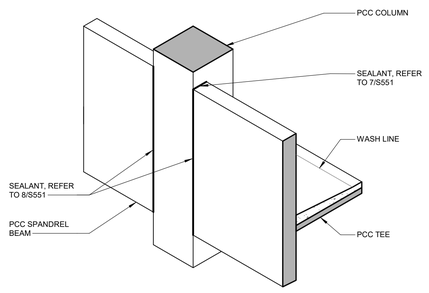
NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

4 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



NOTE - ISOMETRIC SHOWS SCHEMATIC CONDITION. DESIGN INTENT IS FOR ALL PRECAST TO PRECAST AND PRECAST TO CAST-IN-PLACE AND CAST-IN-PLACE TO CAST-IN-PLACE JOINTS TO BE SEALED.

3 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



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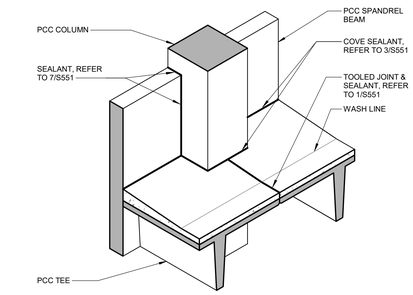
2 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"



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1 ISOMETRIC SEALANT DETAIL
SCALE: 3/8" = 1'-0"

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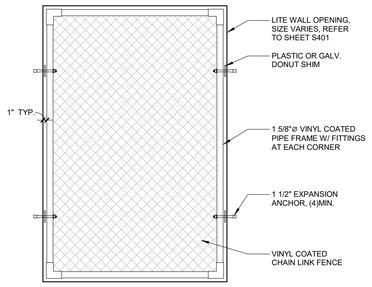
SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

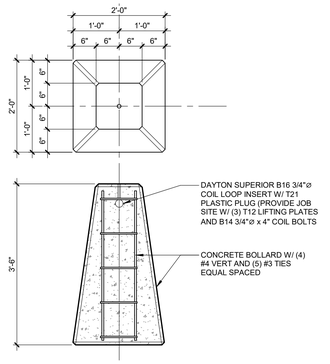
WATERPROOFING DETAILS

GS5.52

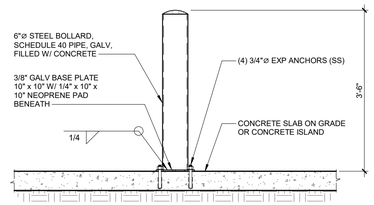
Fishbeck Project No. 240899



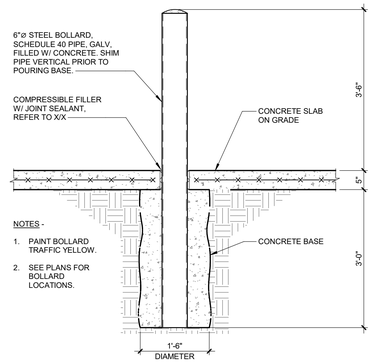
12 INFILL FENCE DETAIL
SCALE: 3/4" = 1'-0"



11 CONCRETE BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



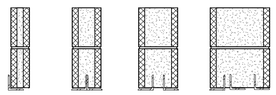
10 STEEL BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



9 STEEL BOLLARD DETAIL
SCALE: 3/4" = 1'-0"

MASONRY LINTEL SCHEDULE

CLEAR SPAN	4" NOMINAL	6" NOMINAL	8" NOMINAL	12" NOMINAL
UP TO 4'-0"	L3 1/2" X 3 1/2" X 1/4"	(2)L3" X 2 1/2" X 1/4"	(2)L3 1/2" X 3 1/2" X 1/4"	(3)L3 1/2" X 3 1/2" X 1/4"
4'-0" TO 7'-0"	L5" X 3 1/2" X 5/16"	(2)L3 1/2" X 2 1/2" X 5/16"	(2)L5" X 3 1/2" X 5/16"	(3)L5" X 3 1/2" X 5/16"
7'-0" TO 10'-0"	L6" X 3 1/2" X 5/16"	---	(2)L6" X 3 1/2" X 5/16"	(3)L6" X 3 1/2" X 5/16"
OVER 10'-0"	---	---	---	---



4" CMU 6" CMU 8" CMU 12" CMU

MASONRY LINTEL NOTES -

1. REFER TO ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. INSTALL LINTELS WITH LONG LEG VERTICAL.

8 MASONRY BOND BEAM LINTEL SCHEDULE
SCALE: 1" = 1'-0"

LINTEL SCHEDULE

WALL THICKNESS	LINTEL HEIGHT	REINF	MAX. CLEAR SPAN	SECTION TYPE
8"	8"	(2)#5	4'-0"	A
12"	8"	(2)#5	4'-0"	A
8"	16"	(2)#5 (2)#6	7'-0" 10'-0"	B
12"	16"	(2)#5 (2)#8	7'-0" 10'-0"	B

SCHEDULE NOTES -

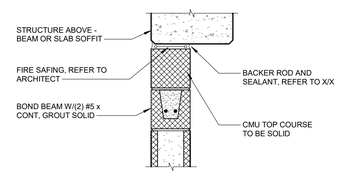
1. FOR USE WITH BLOCK NON-BEARING WALLS.
2. NOMINAL DIMENSIONS USED IN SCHEDULE.
3. USE LINTEL SECTION THAT COINCIDES WITH OPENING CLEAR SPAN UNLESS OTHERWISE NOTED ON BUILDING ELEVATIONS.
4. THE SCHEDULE ABOVE APPLIES ONLY TO LINTELS SUPPORTING MASONRY IN RUNNING BOND.

GENERAL LINTEL NOTES -

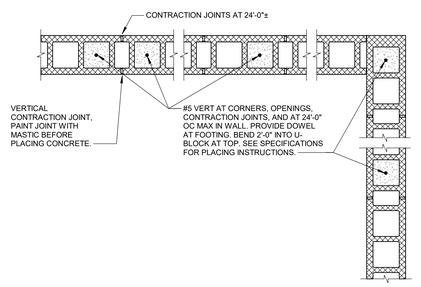
FOR ALL OPENINGS AND RECESSES IN BOTH INTERIOR AND EXTERIOR NON-LOAD BEARING WALLS NOT SHOWN ON STRUCTURAL DRAWINGS, PROVIDE THE FOLLOWING LINTELS:

1. CONCRETE BLOCK LINTEL
   - A. REINFORCE LINTEL BLOCK AS INDICATED IN THE CONCRETE BLOCK "LINTEL SCHEDULE" FOR WALL THICKNESS AND CLEAR SPAN.
   - B. FILL WITH CONCRETE OR GROUT NOT MORTAR.
   - C. JOINTING SHALL BE SAME AS ADJACENT WALL.
   - D. MINIMUM BEARING ON MASONRY IS 8" EACH END BUT NOT LESS THAN 1" OF BEARNG PER FOOT WIDTH OF OPENING SPAN.
   - E. LINTEL SHALL BE SHORED FOR 28 DAYS.
   - F. FOR LINTELS WITH A CLEAR SPAN OPENING OF 6'-0" OR LARGER PROVIDE 100% GROUT FILL FORM FROM FOOTING (OR FLOOR BELOW) TO LINTEL BEARING.
   - G. FOR LINTELS WITH A CLEAR SPAN OPENING LESS THAN 6'-0" PROVIDE SOLID OR GROUTED MASONRY TO MINIMUM DEPTH OF 2'-0" BELOW THE BEARING.

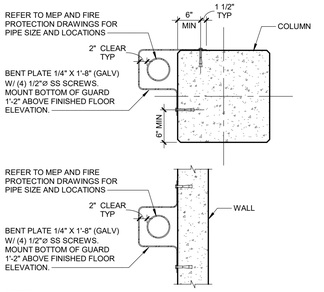
7 MASONRY BOND BEAM LINTEL SCHEDULE
SCALE: 1" = 1'-0"



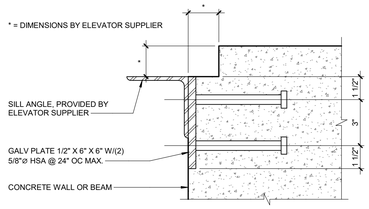
6 MASONRY WALL DETAIL
SCALE: 1" = 1'-0"



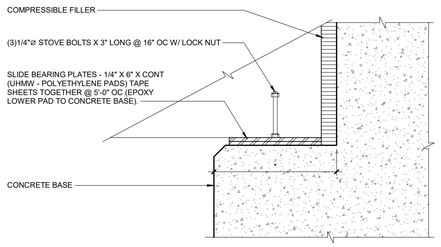
5 MASONRY WALL VERT REINF DETAIL
SCALE: 1" = 1'-0"



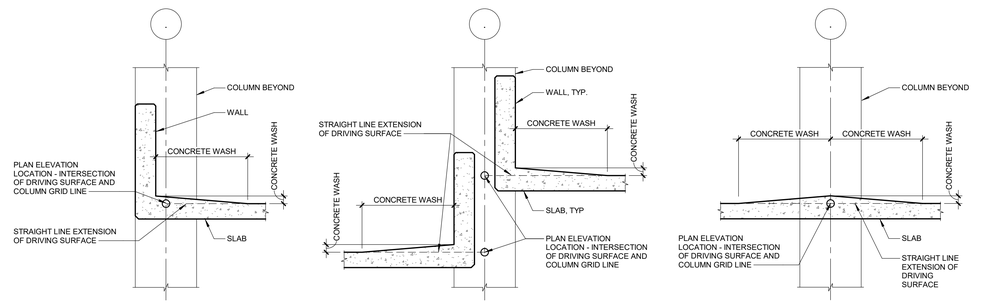
4 PIPE GUARD DETAILS
SCALE: 3/4" = 1'-0"



3 ELEVATOR SILL DETAIL
SCALE: 3" = 1'-0"



2 SLIDE BEARING DETAIL
SCALE: 3" = 1'-0"



1 PLAN ELEVATION KEY
SCALE: 1/2" = 1'-0"

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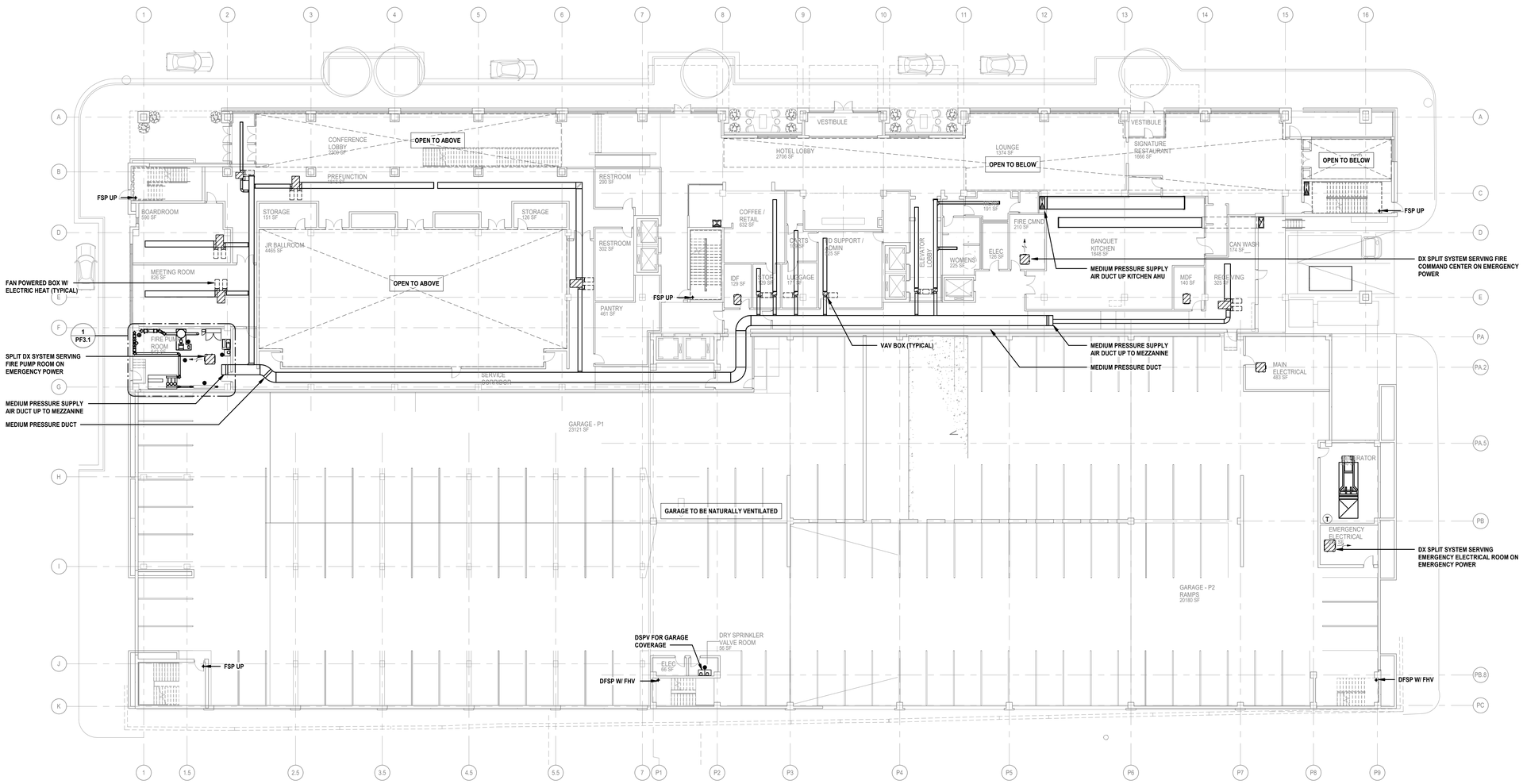
13-24114-00

MISCELLANEOUS DETAILS

GS5.55

Fishbeck Project No. 240899



1 LEVEL 01 OVERALL FLOOR PLAN - MEPF
MEPF1.1 SCALE: 1/16" = 1'-0"

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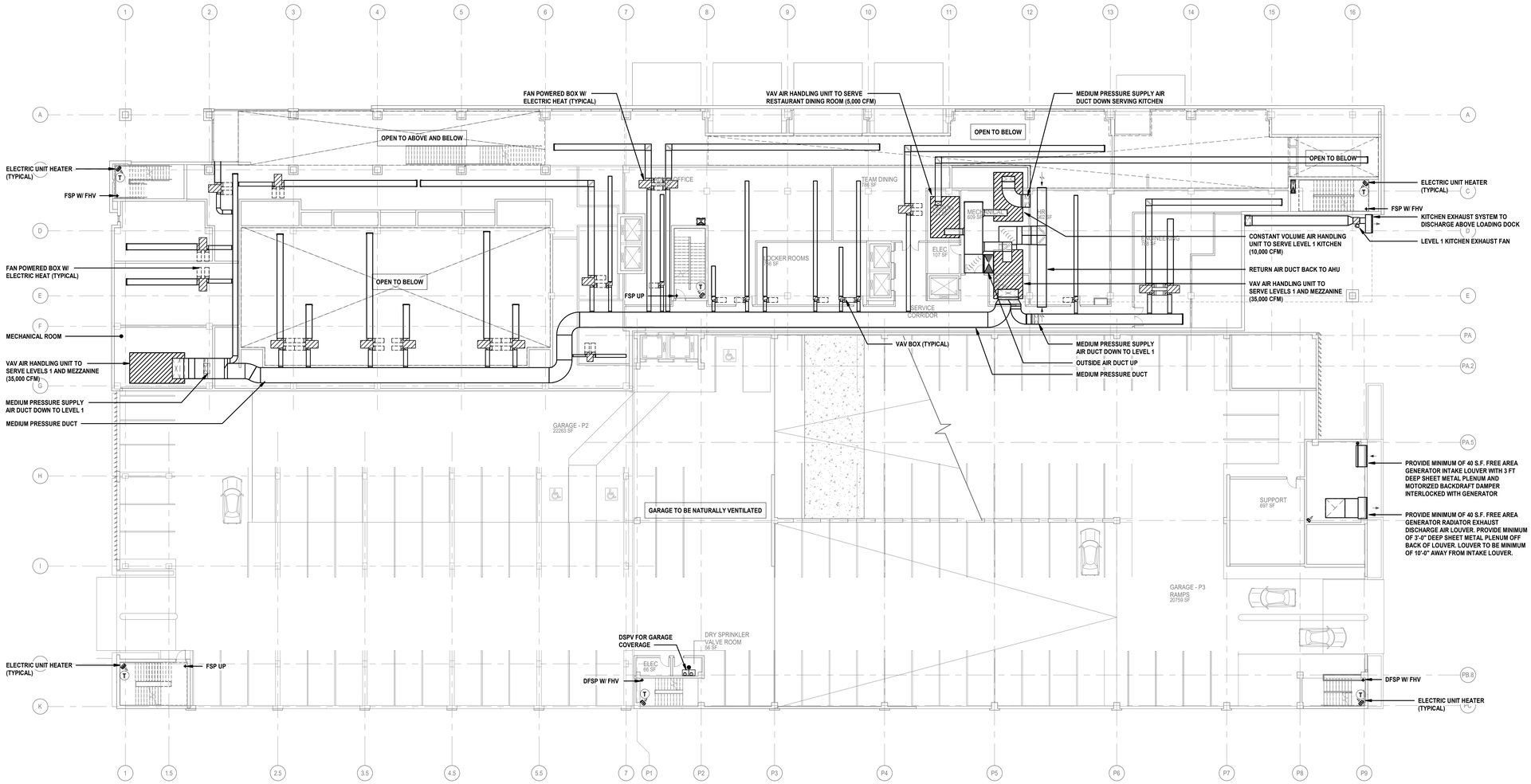
LEVEL 01 OVERALL FLOOR PLAN

MEPF1.1



1 OVERALL MEZZANINE LEVEL FLOOR PLAN - MEPF
MEPF1.1.5 SCALE: 1/16" = 1'-0"

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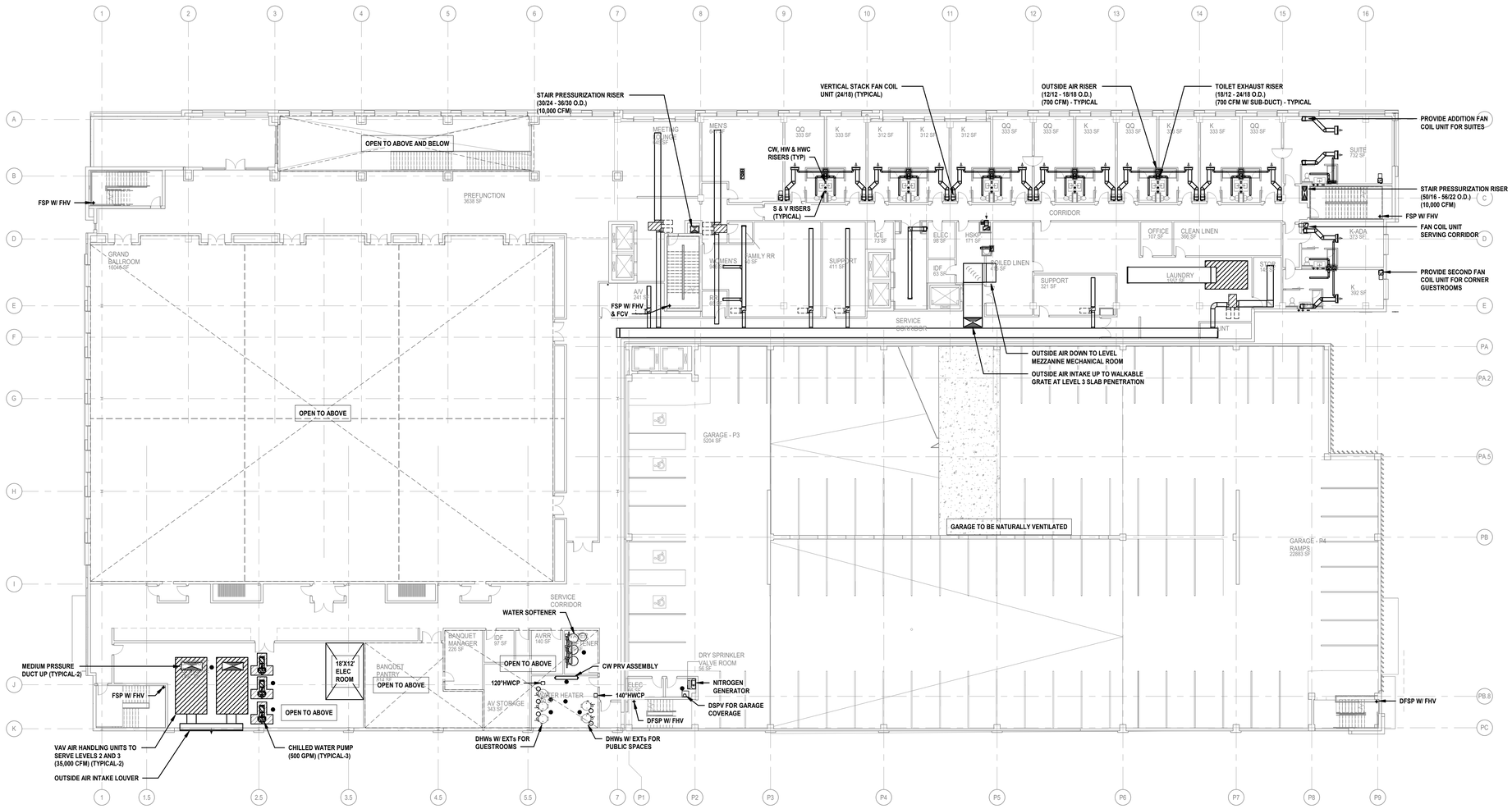
MEZZANINE OVERALL FLOOR PLAN

MEPF1.1.5



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1 LEVEL 02 OVERALL FLOOR PLAN - MEPF

MEPF1.2 SCALE: 1/16" = 1'-0"

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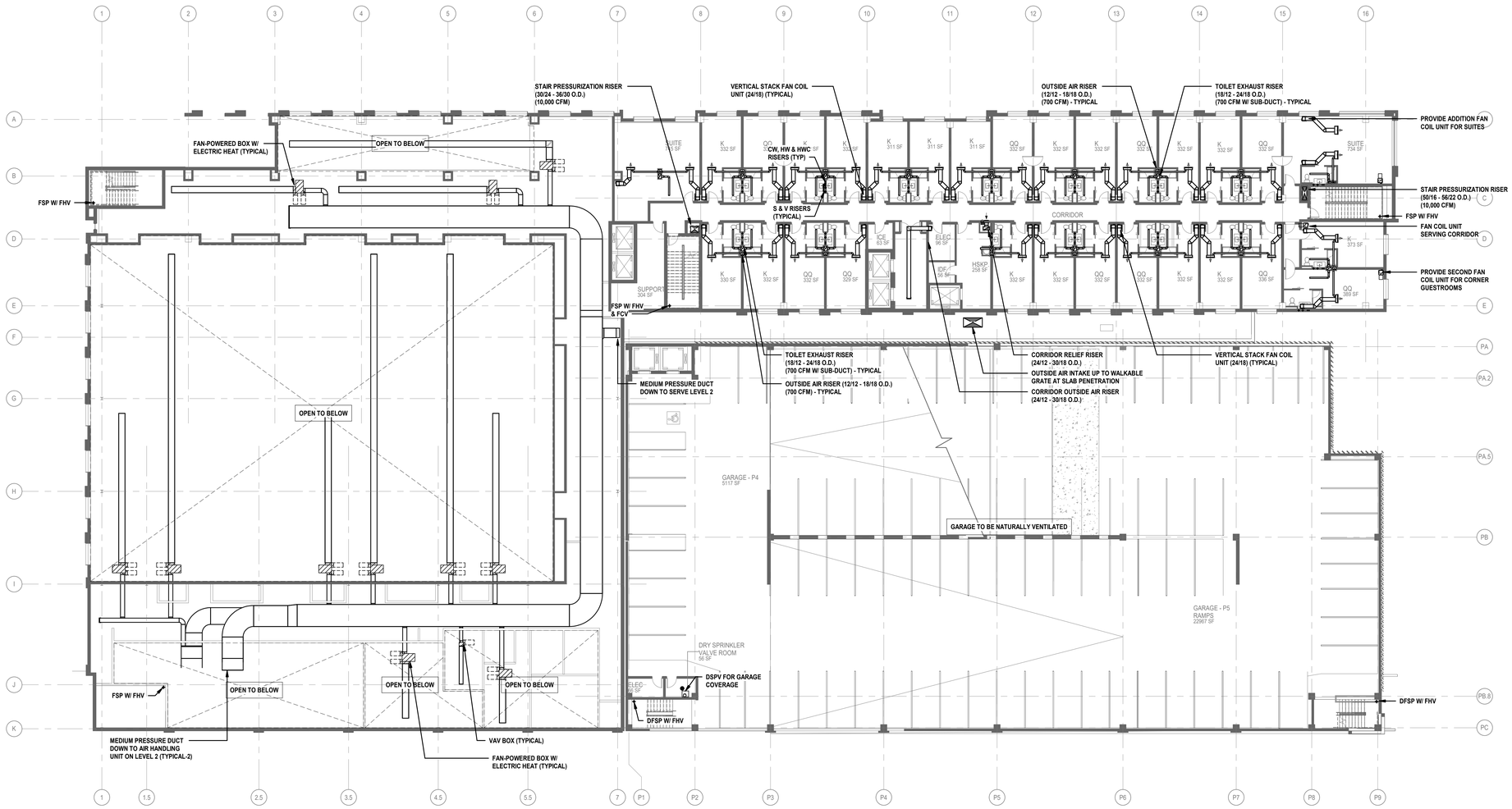
LEVEL 02 OVERALL FLOOR PLAN

MEPF1.2



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1 MEPF1.3 LEVEL 03 OVERALL FLOOR PLAN - MEPF

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

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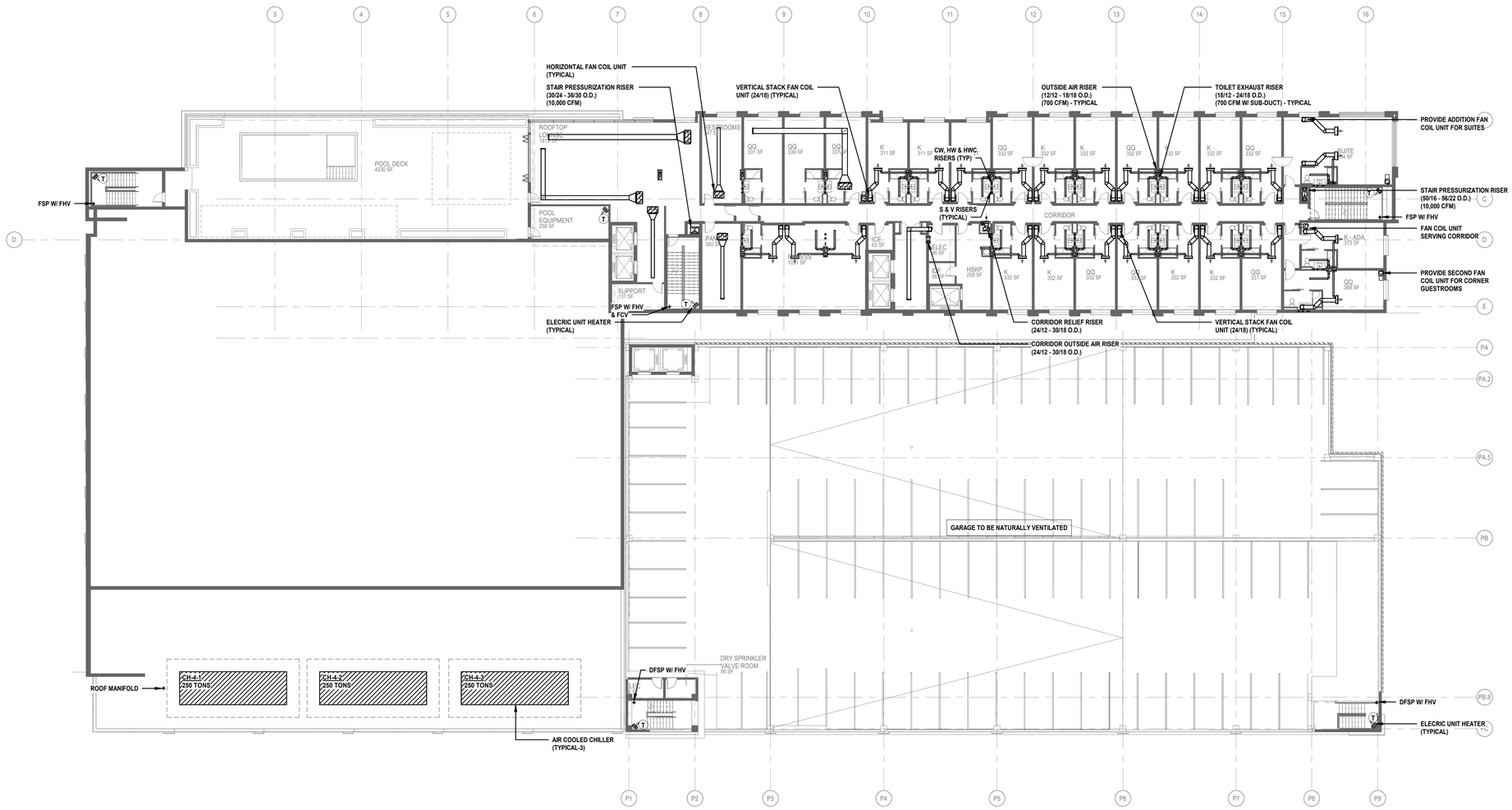
LEVEL 03 OVERALL FLOOR PLAN

MEPF1.3



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1 LEVEL 04 OVERALL FLOOR PLAN - MEPF
MEPF1.4 SCALE: 1/16" = 1'-0"

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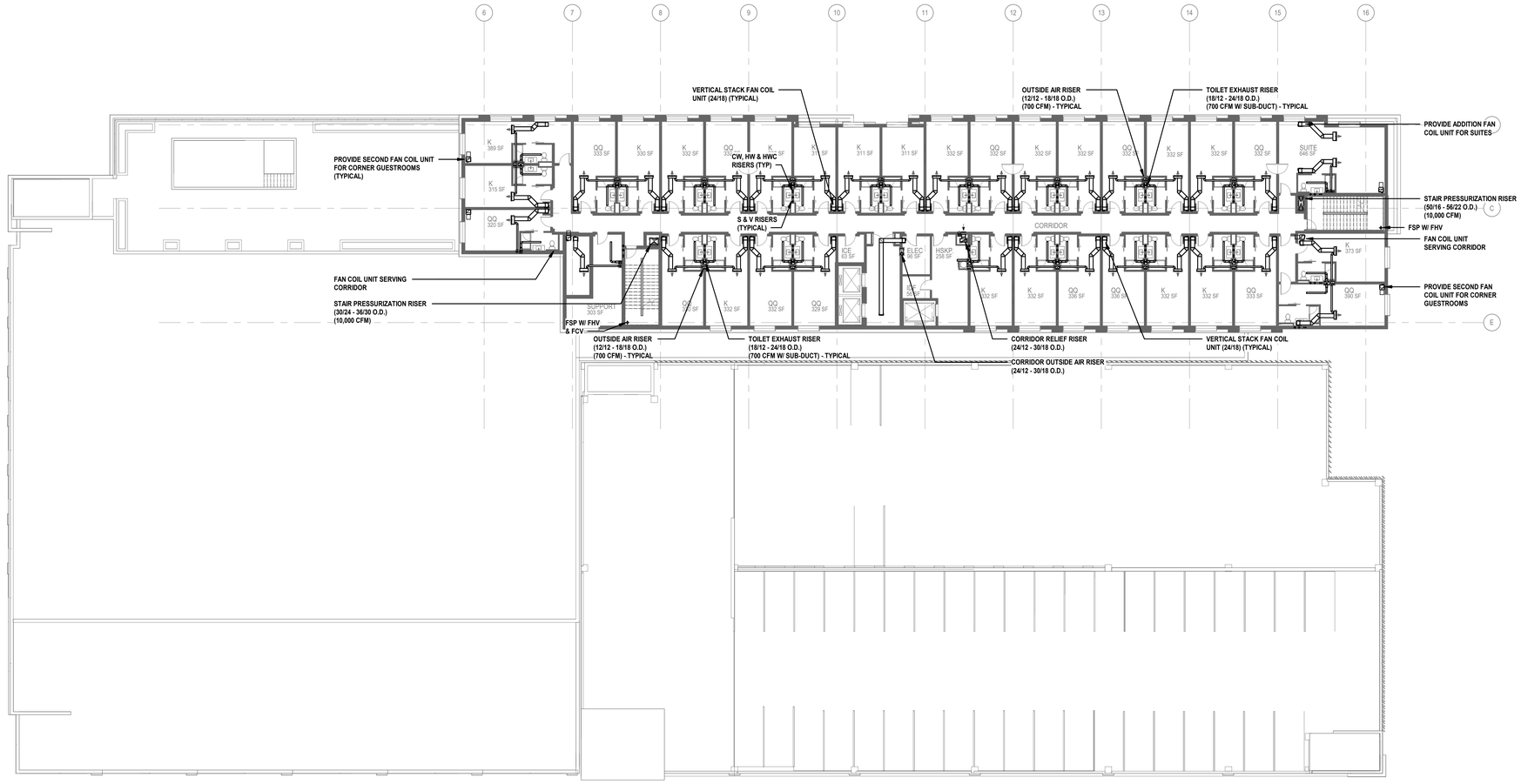
LEVEL 04 OVERALL FLOOR PLAN

MEPF1.4



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1 LEVEL 05 OVERALL FLOOR PLAN - MEPF
MEPF1.5 SCALE: 1/16" = 1'-0"

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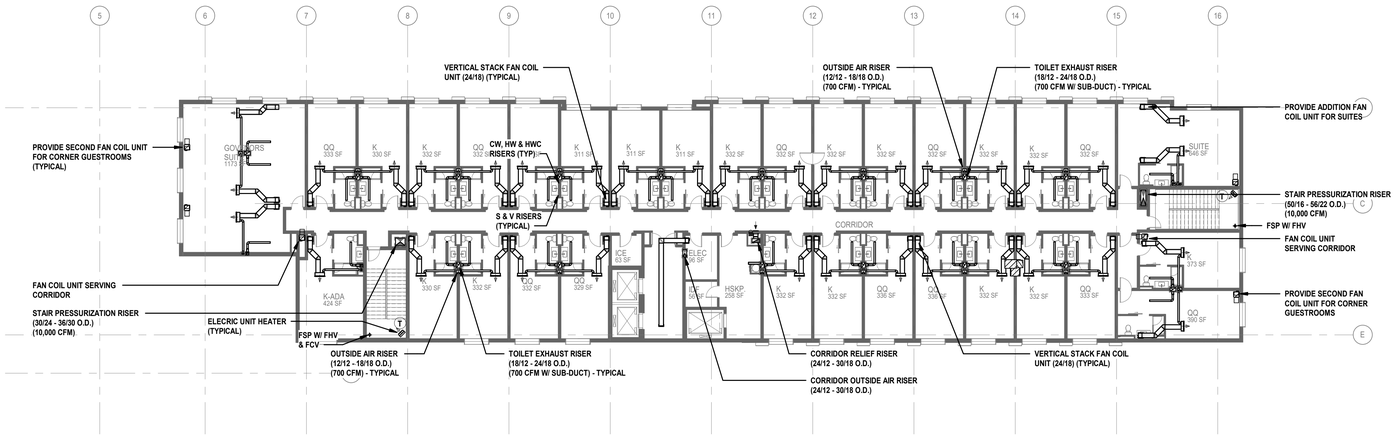
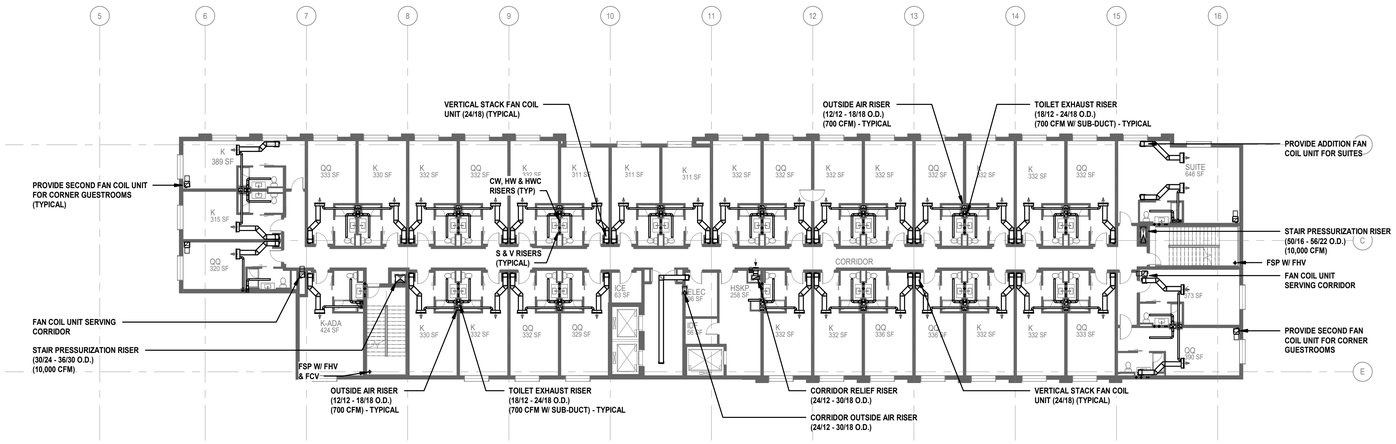
LEVEL 05 OVERALL FLOOR PLAN

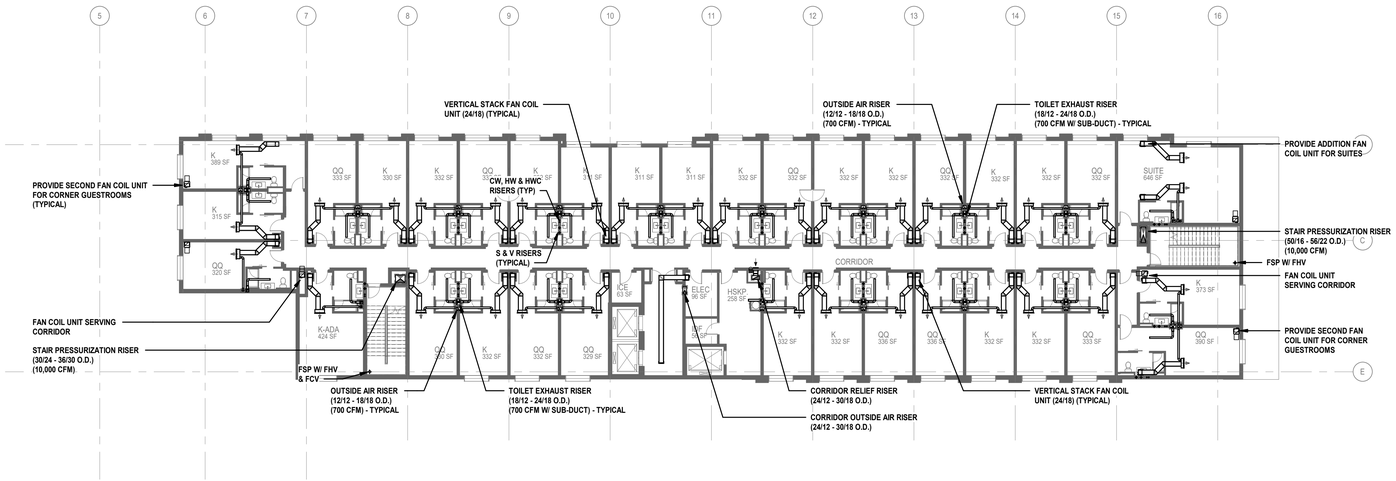
MEPF1.5



3 LEVEL 08 FLOOR PLAN - MEPF
MEPF1.6 SCALE: 1/16" = 1'-0"



2 LEVEL 07 FLOOR PLAN - MEPF
MEPF1.6 SCALE: 1/16" = 1'-0"



1 LEVEL 06 FLOOR PLAN - MEPF
MEPF1.6 SCALE: 1/16" = 1'-0"

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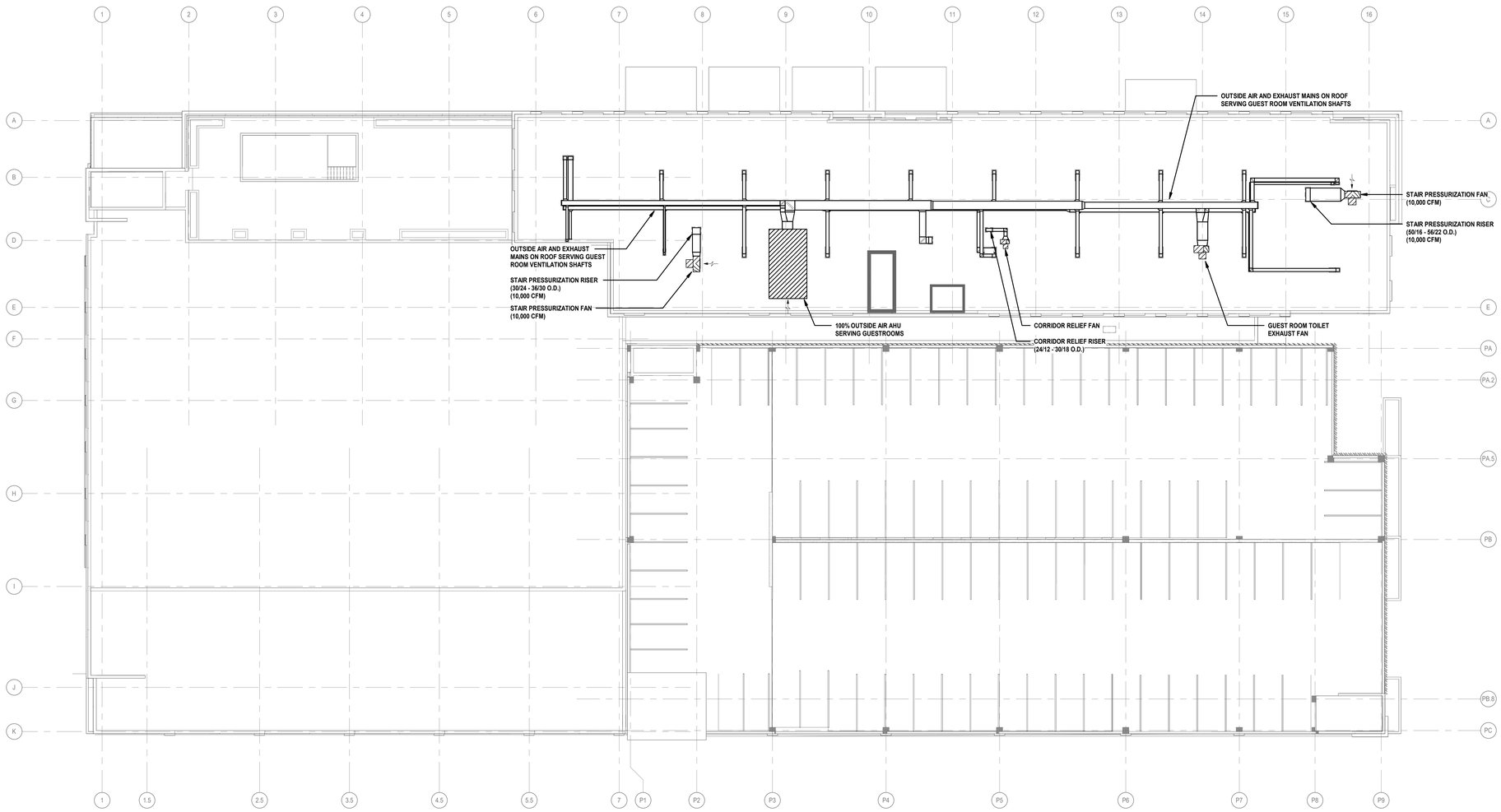
LEVEL 06, LEVEL 07 & LEVEL 08 FLOOR PLANS

MEPF1.6



1 MEPF1.10 OVERALL ROOF PLAN - MEPF
SCALE: 1/16" = 1'-0"

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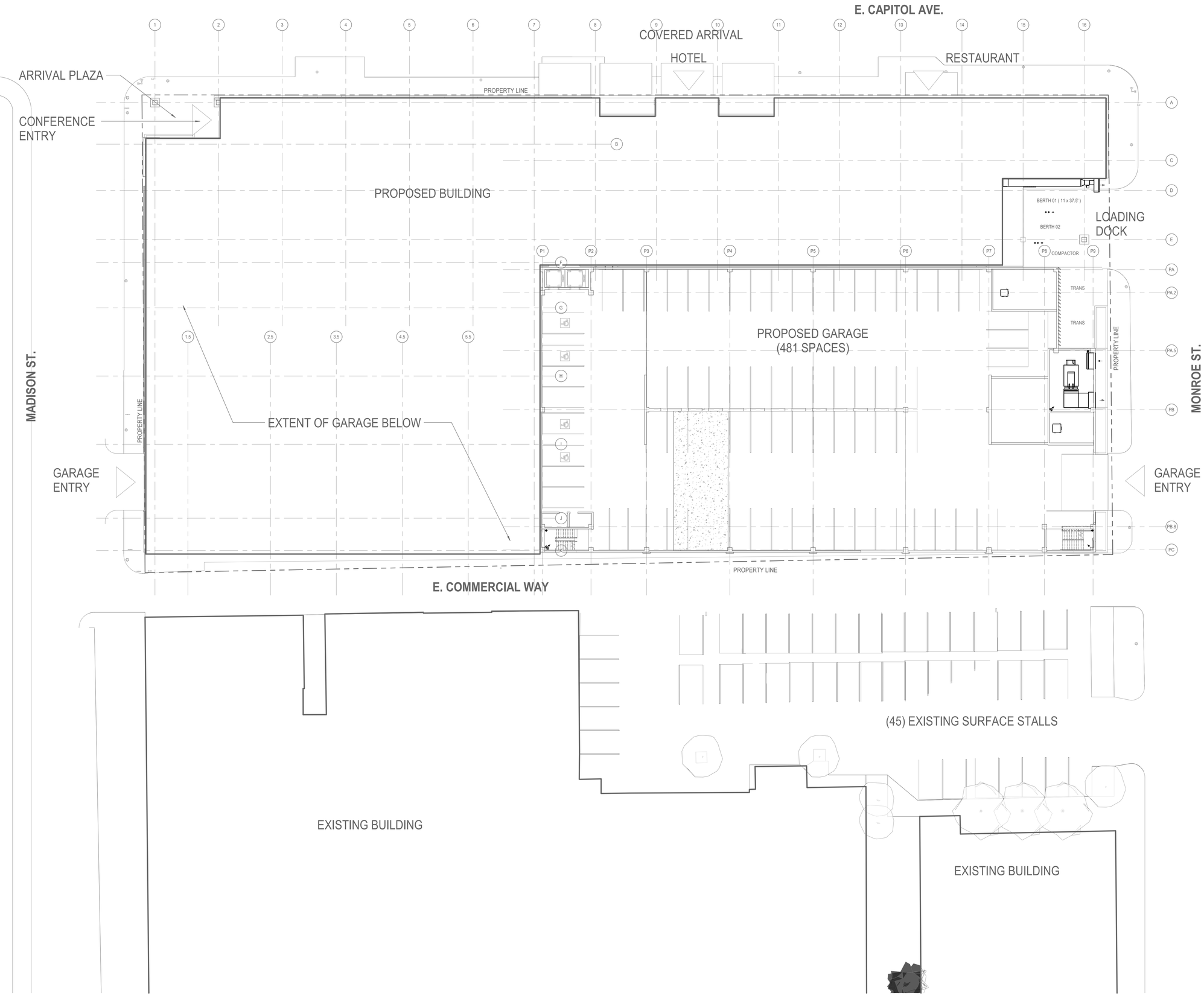
OVERALL ROOF PLAN

MEPF1.10



N

MEPF SITE PLAN

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

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SITE PLAN

MEPFS1.1

INSURANCE AGENCY APPROVAL: VERIFY WITH OWNER

BUILDING CODE & YEAR: -

BUILDING OCCUPANCY GROUP:
MIXED OCCUPANCY AS FOLLOWS:
A) RESIDENTIAL UNITS : R-2 (RESIDENTIAL)
B) RETAIL, AMENITIES AND LEASING : M, A-3 & B
C) LEASABLE STORAGE : S-1 (MODERATE HAZARD STORAGE)

PIPE SIZING CRITERIA: HYDRAULIC

SPRINKLER HEADS (AREAS & TYPE): UNLESS OTHERWISE NOTED ON PLANS
1. RESIDENTIAL AREAS W/ CEILINGS - FINISH TO MATCH CEILING, QUICK RESPONSE, CONCEALED PENDENT.
2. RESIDENTIAL AREAS W/O CEILINGS - FINISH TO MATCH WALL, QUICK RESPONSE, CONCEALED SIDEWALL.
3. FINISHED AREAS W/ CEILINGS - FINISH TO MATCH CEILING, QUICK RESPONSE, CONCEALED PENDENT.
4. FINISHED AREAS W/O CEILINGS - FINISH TO MATCH WALL, QUICK RESPONSE, CONCEALED SIDEWALL.
5. ELEVATOR MACHINE ROOMS OR OTHER AREAS WITH SENSITIVE ELECTRICAL EQUIPMENT W/ CEILINGS - BRASS, STANDARD RESPONSE, PENDENT.
6. ELEVATOR MACHINE ROOMS OR OTHER AREAS WITH SENSITIVE ELECTRICAL EQUIPMENT W/O CEILINGS - BRASS, STANDARD RESPONSE, UPRIGHT OR SIDEWALL.
7. ELECTRIC ROOMS W/ CEILING - BRASS, STANDARD RESPONSE, PENDENT.
8. ELECTRIC ROOMS W/O CEILING - BRASS, STANDARD RESPONSE, UPRIGHT OR SIDEWALL.
9. TRASH CHUTES - PER NFPA 13.
10. LINEN CHUTES - PER NFPA 13.
11. ALL OTHER AREAS W/ CEILINGS - BRASS, QUICK RESPONSE, PENDENT.
12. ALL OTHER AREAS W/O CEILINGS - BRASS, QUICK RESPONSE, UPRIGHT.

HYDRANT FLOW TEST:
STATIC PRESSURE:
RESIDUAL PRESSURE:
TESTFLOW IN GPM:
PRESSURE HYDRANT:
FLOWING HYDRANT:
TEST POINT ELEVATION:
TEST DATE:

CONTRACTOR TO RECEIVE FLOW TEST PRIOR TO DESIGN OF STANDPIPE SYSTEM. USE 10 PSI CUSHION FOR DESIGN PER CITY REQUIREMENTS.

SPRINKLER DESIGN CRITERIA				
SPACE	DENSITY GPM/SF	HAZARD	HD SPACING FT/AREA IN SF	HOSE GPM
1. RESIDENTIAL SPACES, OFFICE & PUBLIC AREAS	0.10/1500	LIGHT	15/225	100
2. MECHANICAL ROOMS, PARKING GARAGE	0.15/1500	0H-1	15/130	250
3. EXTERIOR LOADING DOCK AREAS	0.20/1500	0H-2	15/130	250
4. DRY SPRINKLER AREAS	INCREASE AREA OF SPRINKLER OPERATION BY 30% WITHOUT REVISING THE DENSITY			

FIRE PUMP CAPACITY: 1000 GPM
BASED ON NUMBER OF FIRE STANDPIPES FOR TOTALLY SPRINKLERED BUILDING PER NFPA 14.

GENERATOR BACKUP: YES

NOTES
1. AUTOMATIC SPRINKLER PROTECTION IS REQUIRED THROUGHOUT EVERY INTERIOR ACCESSIBLE SPACE INCLUDING ALL CLOSETS AND BALCONIES REGARDLESS OF SIZE EXCEPT IN:
   A. RESIDENTIAL BATH ROOMS WITH AREA LESS THAN 55 SQ. FT.
   B. TOP OF PASSENGER ELEVATOR SHAFTS SINCE CARS WILL COMPLY WITH ANSI A 17.1 1996 REQUIREMENTS.
   C. BOTTOM OF ALL TRACTION ELEVATOR SHAFTS. WILL COMPLY WITH ANSI A 17.1 1196 REQUIREMENTS.
2. SPRINKLE ELEVATOR MACHINE ROOMS AS PER ANSIASME A17.1A - 1997., WHICH REQUIRES A MAIN SHUT-OFF VALVE AND TAMPER SWITCH LOCATED OUTSIDE OF ROOM.
3. THE MAXIMUM AREA PER SPRINKLER ZONE ON ANY FLOOR SHALL NOT EXCEED 52,000 SQUARE FEET.

ALARM & TROUBLE SIGNALS:
1. WATERFLOW DEVICES SHALL BE PROVIDED AT THE LATERAL CONNECTIONS TO EACH SPRINKLER RISER ON EACH FLOOR FOR EACH ZONE.
2. ELECTRICAL SUPERVISION SHALL BE PROVIDED ON ALL SPRINKLER SYSTEM CONTROL VALVES, AND PUMPING SYSTEMS IF ANY.

FIRE STANDPIPES:
CLASS I STANDPIPES SHALL BE PROVIDED AT THE FLOOR LANDING OF EACH EXIT STAIRWELL.

PLUMBING FIXTURE MINIMUM CONNECTION SCHEDULE

DESIGNATION	FIXTURE	C.W.	H.W.	DRAIN	VENT
WC	WATER CLOSET (FLUSH VALVE)	1"	-	4"	2"
WC	WATER CLOSET (TANK)	1/2"	-	4"	2"
UR	URINAL	3/4"	-	2"	2"
LAV.	LAVTORY	1/2"	1/2"	2"	2"
EWC / DF	ELECTRIC WATER COOLER / DRINKING FOUNTAIN	1/2"	-	2"	2"
MB / SS	MOP BASIN / SERVICE SINK	1/2"	1/2"	3"	2"
SH / BT	SHOWER / BATHTUB	1/2"	1/2"	2"	2"
SK	SINK	1/2"	1/2"	2"	2"

GENERAL NOTES:

1. PITCH ALL DRAINAGE PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PITCH ALL DRAINAGE PIPING 2-1/2" AND SMALLER AT 1/4" PER FOOT. PITCH ALL GREASE WASTE DRAINAGE PIPING AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED.
2. ALL UNDERGROUND DRAINAGE PIPING SHALL BE A MINIMUM OF 3" IN SIZE.
3. PROVIDE TRAP PRIMER UNITS FOR ALL FLOOR DRAINS
4. VERIFY/COORDINATE LOCATIONS OF ALL FIXTURES, DRAIN, ETC. WITH ARCHITECT PRIOR TO ROUGH-IN.
5. FREEZE PROOF WALL HYDRANTS TO BE PROVIDED AT 150 FT INTERVALS ON EXTERIOR WALLS OF BUILDING INDICATED ON DRAWINGS. VERIFY EXACT LOCATIONS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
6. PROVIDE THERMOSTATIC MIXING VALES AS REQUIRED BY LOCAL CODE OR AUTHORITY HAVING JURISDICTION.
7. PROVIDE ALL BACKFLOW PREVENTORS, CHECK VALVES, VACUUM BREAKERS AND PRESSURE REDUCING VALVES AS REQUIRED.
8. PROVIDE COMPLETE UL LISTED HEAT-TRACING SYSTEMS TO PREVENT FREEZING OF ANY PIPING SYSTEMS LOCATED IN UNHEATED SPACES.
9. DESPITE DETAILS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL FULLY COMPLY WITH THE EQUIPMENT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, ESPECIALLY WHEN THOSE INSTRUCTIONS ARE MORE EXPLICIT OR STRINGENT THAN THE DETAILS OR ARE PARTICULAR TO THE PROPER OPERATION OF THAT PARTICULAR MANUFACTURER'S EQUIPMENT.
10. PROVIDE 3/4" CW TO HOSE BIBB LOCATED ABOVE EVERY MOP BASIN AND SERVICE SINK FOR FUTURE CONNECTION TO ECOLAB OR SIMILAR SYSTEM.

BACK FLOW PROTECTION REQUIREMENTS ALL TYPES ARE NOT NECESSARILY USED ON THIS JOB

HAZARD	HAZARD LEVEL	ASSEMBLY TYPE	HAZARD	HAZARD LEVEL	ASSEMBLY TYPE
Building Domestic Water Supply	HI	RPBFP	Building Fire Protection Supply	LO	DCBFP
Water Softener	LO	DCBFP	HVAC Equipment	HI	RPBFP
Irrigation (No Chemicals)	LO	DCBFP	Irrigation (With Checmicals)	HI	RPBFP
Pool Equipment	HI	RPBFP	Laundry Equipment	HI	RPBFP
Water Closet	HI	PVB	Urinal	HI	PVB
Carbonator	HI	RPBFP	Ice Machine	HI	RPBFP
Coffee, Juice & Tea Machine	LO	DCBFP	Expresso Machine	LO	DCBFP
Hose Bib	HI	PVB	HVAC Boiler	HI	RPBFP
HVAC Chiller	HI	RPBFP	Cooling Tower	HI	RPBFP
Garbage Disposer	HI	RPBFP	Shampoo Basin	HI	RPBFP
Steam Cooker	HI	RPBFP			

RPBFP = Reduced Pressure Backflow Preventor - Watts 009 DCBFP = Double Check Backflow Preventor - Watts 719
PVB = Pressure Vacuum Breaker

Notes:
1. Provide water protection (backflow prevention) in all locations as required per local AHJ.

SHOCK ARRESTORS/SHOCK ABSORBERS/WATER HAMMER ARRESTERS SELECTION TABLES (SMITH HYDROTROL 5000 SERIES ARRESTER MODEL NUMBERS USED AS GUIDE. OTHER MANUFACTURER'S ARRESTERS ARE ACCEPTABLE). - PROVIDE ON ALL PLUMBING FIXTURES AND FIXTURE BATTERIES AS INDICATED IN TABLES BELOW AND/OR AS INDICATED ON PLANS.

REFER TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS FOR LOCATIONS OF SHOCK ARRESTERS.

TABLE 1

THIS TABLE INDICATES THE FIXTURE UNIT WEIGHTS FOR MOST POPULAR PLUMBING FIXTURES. CERTAIN LOCAL CODES MAY VARY AND SHOULD BE REVIEWED PRIOR TO USING TABLE 1.

FIXTURE	TYPE OF SUPPLY CONTROL	WEIGHT IN FIXTURE UNITS			
		PUBLIC		PRIVATE	
		C.W.	H.W.	C.W.	H.W.
WATER CLOSET	FLUSH VALVE	10	-	6	-
WATER CLOSET	FLUSH TANK	5	-	3	-
PEDESTAL URINAL	FLUSH VALVE	10	-	-	-
STALL OR WALL URINAL	FLUSH VALVE	5	-	-	-
STALL OR WALL URINAL	FLUSH TANK	3	-	-	-
LAVATORY	FAUCET	1 1/2	1 1/2	1	1
BATHTUB	FAUCET	2	3	1 1/2	1 1/2
SHOWER HEAD	MIXING VALVE	2	3	1	1
BATHROOM GROUP	FLUSH VALVE CLOSET	-	-	8	3
BATHROOM GROUP	FLUSH VALVE CLOSET	-	-	6	3
SEPARATE SHOWER	MIXING VALVE	-	-	1	2
SERVICE SINK	FAUCET	3	3	-	-
LAUNDRY TUBS (1-3)	FAUCET	-	-	3	3
COMBINATION FIXTURE	FAUCET	-	-	3	3

TABLE 2

THIS TABLE INDICATES FIXTURE UNIT RATINGS FOR P.D.I. CERTIFIED WATER HAMMER ARRESTER CATEGORIES AND THE CORRESPONDING SMITH HYDROTROL FOR EACH CATEGORY. WHERE SEVERAL FIXTURES ARE INSTALLED IN A BRANCH USUALLY ONLY ONE FIXTURE VALVE AT A TIME WILL BE CLOSED. TABLE 2 TAKES INTO CONSIDERATION OTHER DESIGN FACTORS INCLUDING THE SIMULTANEOUS USAGE OF ONE OR MORE FIXTURES, PIPE SIZE, LENGTH, FLOW PRESSURE AND VELOCITY, THEREFORE, THIS METHOD OFFERS A SIMPLE FAST DETERMINATION OF THE PROPER SIZE WATER HAMMER ARRESTER FOR A GIVEN BATTERY OF PLUMBING FIXTURES.

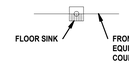
▲ P.D.I. SYMBOLS	A	B	C	D	E	F	
HYDROTROL	5005	5010	5020	5030	5040	5050	
FIXTURE UNIT RATING	1-11	12-32	33-60	61-113	114-154	155-330	

NOTE: WHEN WATER PRESSURE IN LINE EXCEEDS 65psi, SPECIFY THE NEXT LARGER HYDROTOL.

▲ PLUMBING AND DRAINAGE INSTITUTE ESTABLISHED THESE SIZE SYMBOLS TO CORRESPOND TO THOSE UNITS COVERED BY THE CERTIFICATION AND TESTING PROGRAM DESCRIBED IN P.D.I. STANDARD MANUAL WH-201.

GENERAL FOOD SERVICE EQUIPMENT NOTES

1. PROVIDE PIPING, CONNECTIONS, VALVES, TRAPS, AND TRIM AS REQUIRED FOR ALL FOOD SERVICE EQUIPMENT.
2. SINKS WITH INDIRECT WASTE PIPING TO BE PROVIDED WITH 1 1/2" IW PIPING WHICH SHALL SPILL TO THE NEAREST FLOOR SINK. ALL OTHER INDIRECT WASTE PIPING (AS INDICATED ON FOOD SERVICE DWGS) TO BE RUN SEPARATELY TO NEAREST FLOOR DRAIN OR FLOOR SINK. PROVIDE TRAPS FOR INDIRECT WASTE LINES WHERE REQUIRED BY CODE.
3. LOCAL HOT AND COLD WATER WHEEL HANDLE STOP VALVES TO BE PROVIDED AT EACH CONNECTION TO EQUIPMENT.
4. PROVIDE TYPE "A" SHOCK ABSORBER, CARTRIDGE FILTER AND A PRESSURE REDUCING VALVE FOR EACH ICE MAKING DEVICE. SET VALVE TO REDUCE PRESSURE TO 25#.
5. PROVIDE DISHWASHER HOT WATER BOOSTER HEATER WITH 1/2" PRESSURE REDUCING VALVE (SET TO REDUCE PRES-PRESSURE TO 25#). A COMBINED PRESSURE AND TEMPERATURE RELIEF VALVE, A TYPE "A" SHOCK ABSORBER AND A TEMPERATURE GAUGE ON HEATER DISCHARGE.
6. PROVIDE ACID RESISTING DURIRON TRAPS ON ALL FLOOR DRAINS RECEIVING INDIRECT WASTE LINES SERVING BEVERAGE MACHINES.
7. COMBINATION WASTE AND VENT SYSTEM FLOOR DRAINS AND FLOOR SINKS TO BE 3" WITH 4" DEEP SEAL TRAP.
8. PROVIDE ALL REQUIRED VACUUM BREAKERS, CHECK VALVES, SOAP PIPING AND TRIM FOR HOOD VENTILATING UNIT AND CONTROL PANEL AS REQUIRED BY THE CONTROL PANEL MANUFACTURER.
9 SEE FOOD SERVICE EQUIPMENT (FSE) DRAWINGS FOR ALL SODA CONDUIT AND TRIM WHICH WILL BE PROVIDED BY THIS DIVISION.
10. PROVIDE GALVANIZED STEEL PANS BELOW ALL EXPOSED STORM AND SANITARY DRAIN LINES ABOVE ANY FOOD PREPARATION, SERVING, STORAGE, AND UTENSIL CLEANING AREAS. PANS SHALL BE SLOPED TO 1" IW DRAIN LINES WHICH MUST BE DRAINED OPENSITE TO A FLOOR DRAIN OR OTHER APPROVED INDIRECT WASTE FACILITY.
11. PROVIDE GALVANIZED STEEL PANS BELOW ALL STORM AND SANITARY DRAIN LINES ABOVE CEILING WHERE THOSE LINES RUN ABOVE WALK-IN REFRIGERATORS OR FREEZERS. PANS SHALL BE SLOPED TO 1" DRAIN LINES WHICH MUST BE DRAINED OPENSITE TO A FLOOR DRAIN OR OTHER APPROVED INDIRECT WASTE FACILITY.
12. LOCAL GAS COCK STOP VALVES TO BE PROVIDED AT EACH CONNECTION TO GAS APPLIANCES.
13. INSTALL GAS CONTROL VALVE WITH GAS COCKS, STRAINER, AND ACCESS PANEL. SEE DETAIL. VALVES TO BE INTERLOCKED WITH VENTILATOR FIRE PROTECTION SYSTEMS. VALVE PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACT.
14. PROVIDE APPROVED TYPE BACK FLOW PREVENTER UNITS ON WATER MAKEUP TO ICE MACHINES, HOOD WASH DOWN UNITS AND STEAM GENERATING DEVICES AND BEVERAGE UNITS.
15. PROVIDE APPROVED TYPE STAINLESS STEEL BACK FLOW PREVENTER UNIT PRIOR TO CONNECTION TO SODA SYSTEM.
16. PROVIDE INLINE WATER FILTER AND BACKFLOW PREVENTER PRIOR TO CONNECTION TO ALL CARBONATOR UNITS. PROVIDE BY-PASS AROUND FILTER.
17. HAND SINKS/LAVATORIES IN ALL FOOD SERVICE AREAS SHALL BE PROVIDED A BLENDING VALVE TO PROVIDE COLD AND TEMPERED WATER FOR THAT SINK. TEMPERING VALVE SHALL BE SIMILAR AND EQUAL TO SYMMONS THERMIXER MODEL 5-110.
18. IN ALL FOOD SERVICE AREAS WHERE FLOOR SINKS ARE SQUARE, THE FRONT EDGE OF THE EQUIPMENT AND/OR COUNTER SHALL BE SQUARED WITH THE FRONT EDGE OF THE FLOOR SINK AT THAT LOCATION (SEE DETAIL BELOW):



PLUMBING ABBREVIATIONS

A	Compressed Air
AC	Above Ceiling
AD	Area Drain
AP	Access Panel
AV	Acid Vent
AW	Acid Waste
BOP	Bottom of Pipe Elevation
BT	Bathtub
CL	Center Line of Pipe
CO	Cleanout
CW	Cold Water
CWHPD	Cold Water House Pump Discharge
CWV	Combination Waste Vent
DCBFP	Double Check Backflow Preventor
DD	Deck Drain
DF	Drinking Fountain
DN	Down
ED	Ejector Discharge
EEW	Emergency Eye Wash
EP	Elevator Pump
ESH	Emergency Shower
EWC	Electric Water Cooler
FCO	Floor Cleanout
FD	Floor Drain
FL	Flow Line Elevation
FS	Floor Sink
G	Natural Gas
GCO	Grade Cleanout
GD	Garage Drain
GW	Grease Waste
HB	Hose Bib
HPD	House Pump Discharge
HW	Hot Water
HWC	Hot Water Circulation
HWHPD	Hot Water House Pump Discharge
IE	Invert Elevation
IW	Indirect Waste
LAV	Lavatory
MB	Mop Basin
N	Nitrogen
NC	Normally Closed
NO	Normally Open
O	Oxygen
OD	Overflow Drain
PD	Planter Drain
RD	Roof Drain
RPBFP	Reduced Pressure Backflow Precentor
S	Sanitary Waste
SA	Shock Absorber
SD	Sump Discharge
SH	Shower
SK	Sink
SSK	Service Sink
SS	Subsoil Drain
ST	Storm Drain
SV	Sovent Waste
TMV	Thermostatic Mixing Valve
TP	Trap Primer
TW	Tempered Water
TWH	Tankless Water Heater
UF	Underfloor
UG	Underground
UR	Urinal
V	Vent
VAC	Vacuum
VTR	Vent Through Roof
W	Waste
WB	Washer Box
WC	Water Closet
WCO	Wall Cleanout
WH	Wall Hydrant

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	SHUTOFF VALVE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	BALANCE VALVE
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	CONTROL VALVE
	3-WAY VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	METER
	HOSE BIB
	CAPPED OUTLET
	P-TRAP
	PIPE UP
	PIPE DOWN
	CONNECT TO EXISTING
	COLD WATER
	120° HOT WATER
	120° HOT WATER CIRCULATION
140°	140° HOT WATER
140°	140° HOT WATER CIRCULATION
160°	160° HOT WATER
160°	160° HOT WATER CIRCULATION
HPD	COLD WATER HOUSE PUMP DISCHARGE
HPD	HOT WATER HOUSE PUMP DISCHARGE
TW	TEMPERED WATER
	VENT
	SANITARY WASTE
	SOVENT WASTE
CWV	COMBINATION WASTE/VENT
IW	INDIRECT WASTE
GW	GREASE WASTE
AW	ACID WASTE
AV	ACID VENT
ST	STORM DRAIN
OD	OVERFLOW DRAIN
SS	SUBSOIL DRAIN
	DRAINAGE BELOW FLOOR
ED	EJECTOR DISCHARGE
SD	SUMP DISCHARGE
G	NATURAL GAS
N	NITROGEN
O	OXYGEN
A	AIR
VAC	VACUUM

FIRE PROTECTION ABBREVIATIONS

D	Drain
DFSP	Dry Fire Standpipe
DSP	Dry Sprinkler
DSPV	Dry Sprinkler Valve
F	Wet Fire
FCV	Floor Control Valve
FDC	Fire Department Connection
FHC	Fire Hose Cabinet
FHV	Fire Hose Valve
FS	Flow Switch
FSP	Wet Fire Standpipe
PA	Pre-Action
PS	Pressure Switch
SP	Wet Sprinkler
TS	Tamper Switch
WSPV	Wet Sprinkler Valve

FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
	FIRE DEPARTMENT CONNECTION
	FIRE HOSE VALVE
FSW	FLOW SWITCH
PSW	PRESSURE SWITCH
	GATE VALVE WITH TAMPER SWITCH
D	DRAIN
DSP	DRY SPRINKLER
DFSP	DRY FIRE STANDPIPE
F	WET FIRE
FSP	WET FIRE STANDPIPE
PA	PRE-ACTION SPRINKLER
SP	WET SPRINKLER

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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD

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SCHEMATIC DESIGN
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NOTES, SYMBOLS, LEGEND & ABBREVIATIONS

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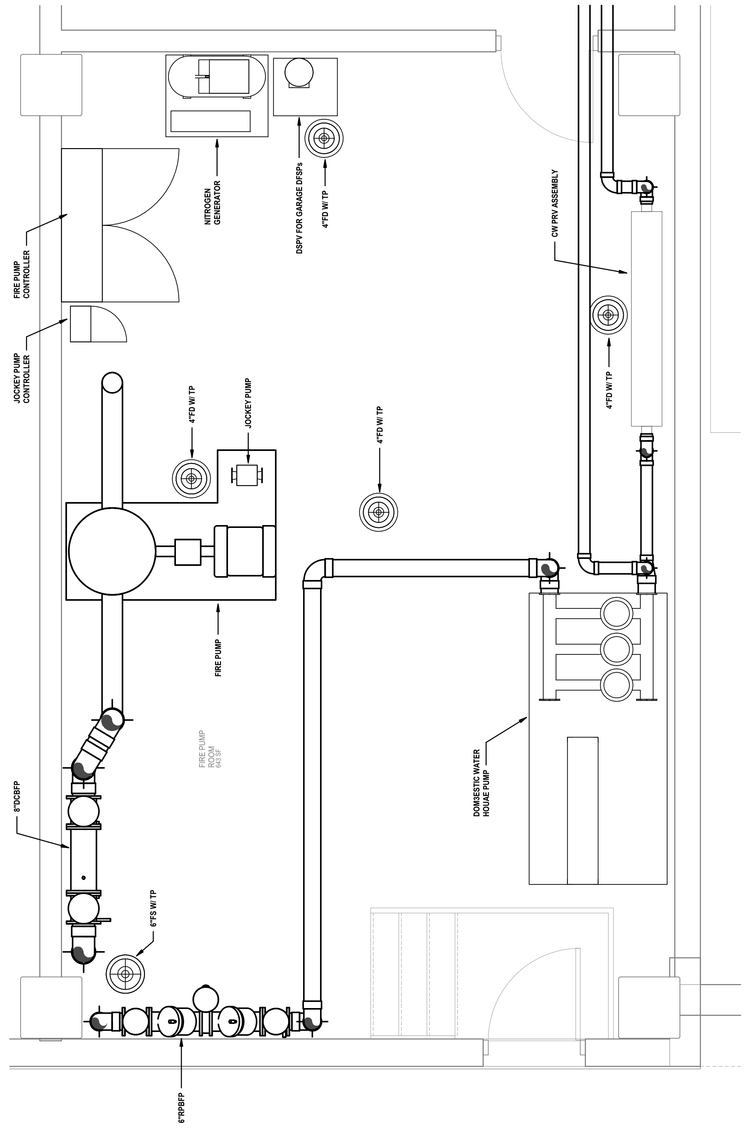

01 ENLARGED FIRE PUMP ROOM - PLUMBING
1/2" = 1'-0"

PF3.1

ENLARGED PLANS
13-24114-00

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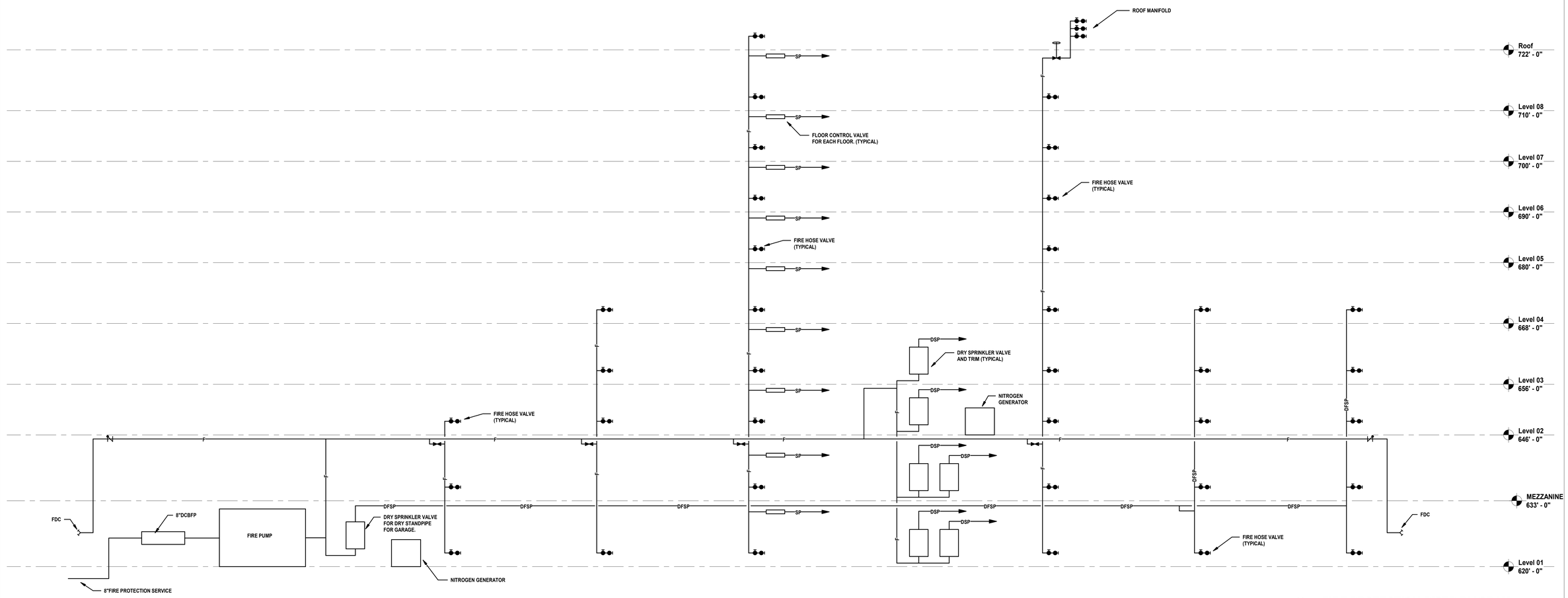

01 FIRE PROTECTION RISER DIAGRAM
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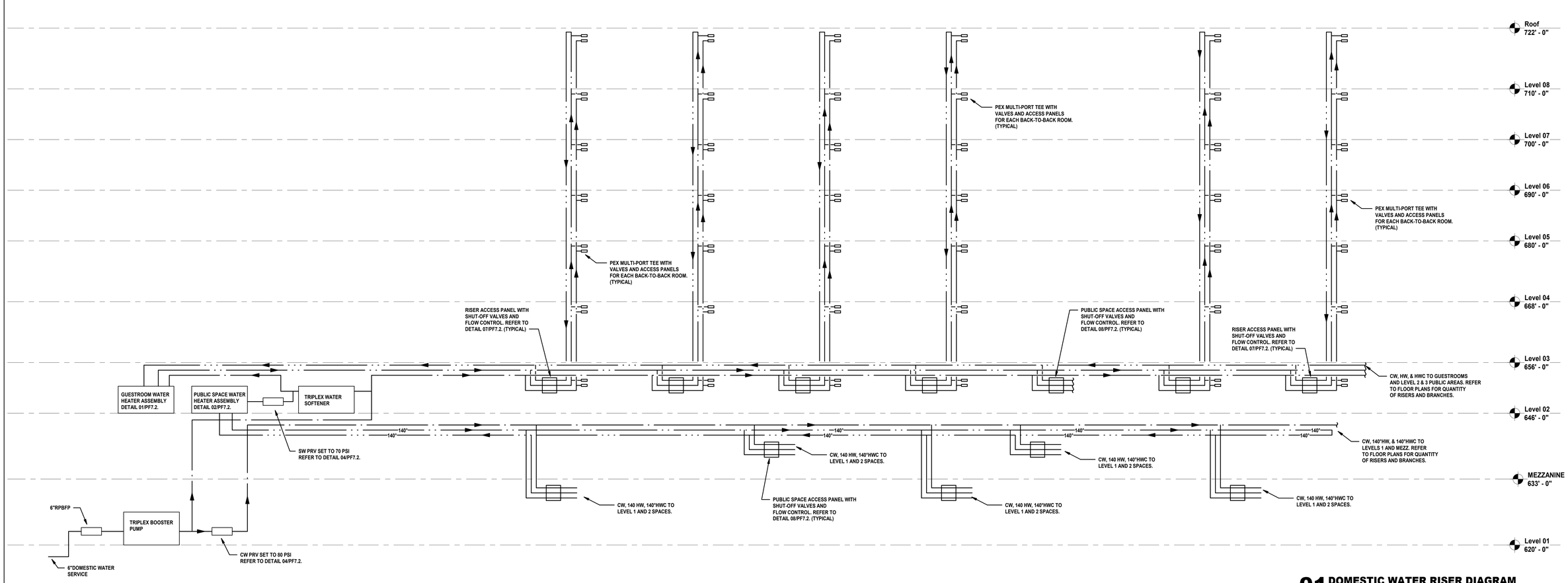
FIRE PROTECTION RISER DIAGRAM

PF5.1



01 DOMESTIC WATER RISER DIAGRAM
N.T.S.

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DOMESTIC WATER RISER DIAGRAM

PF5.2

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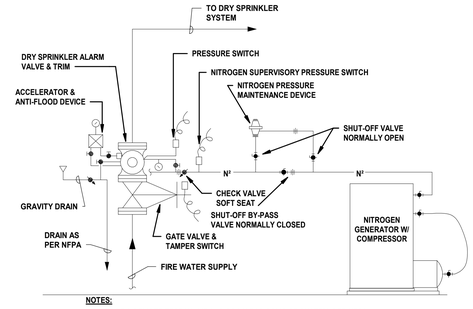
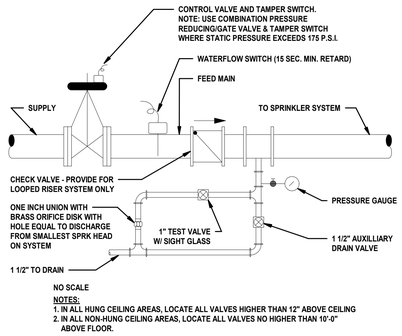


NOTES:

1. PROVIDE A REMOTE TEST VALVE AND DRAIN FOR DRY PIPE SYSTEM, PER NFPA 13

03 DRY SPRINKLER VALVE WITH NITROGEN GENERATOR

N.T.S.



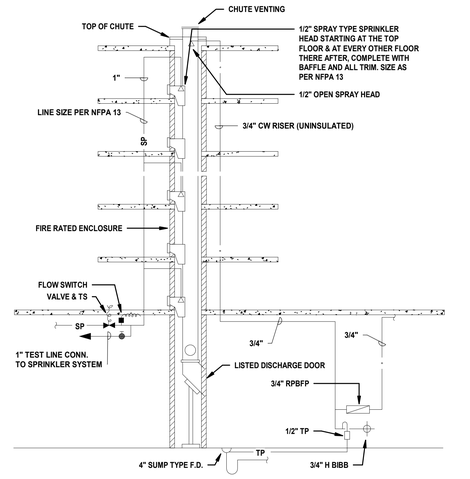
NO SCALE

NOTES:

1. IN ALL HUNG CEILING AREAS, LOCATE ALL VALVES HIGHER THAN 12" ABOVE CEILING
2. IN ALL NON-HUNG CEILING AREAS, LOCATE ALL VALVES NO HIGHER THAN 10'-0" ABOVE FLOOR.

05 FLOOR CONTROL VALVE DETAIL

N.T.S.



02 PLUMBING & FIRE PROTECTION REQ'S SOILED LINEN CHUTE

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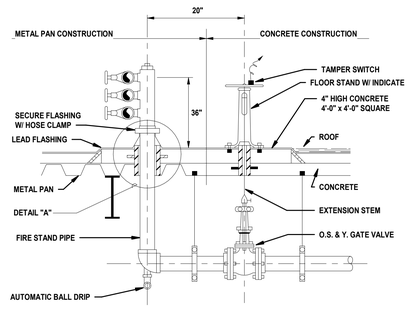
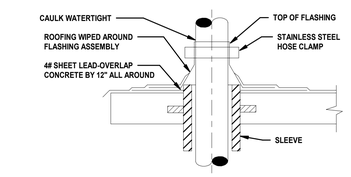
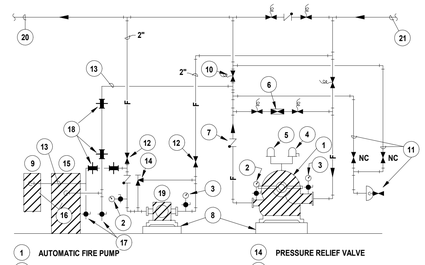




DETAIL "A"

04 ROOF MANIFOLD AND VALVE DETAIL

N.T.S.



1	AUTOMATIC FIRE PUMP	14	PRESSURE RELIEF VALVE
2	DISCHARGE GAUGE	15	FIRE PUMP CONTROL PANEL
3	SUCTION GAUGE	16	PRESSURE SWITCH
4	CASING RELIEF VALVE PIPE DISCHARGE TO F.D.	17	1/2" PETCOCK
5	AIR RELIEF VALVE	18	GROUND FACE UNION - NON - CORROSIVE DIAPHRAGM 3/32" ORIFICE
6	FLOW TEST METER	19	JOCKEY PUMP
7	CHECK VALVE USE SPRING CHECK IN VERTICAL OR SWING CHECK IN HORIZONTAL POSITION (TYPICAL)	20	DISCHARGE TO SYSTEM
8	CONCRETE BASE 12" HIGH (ALL PUMPS)	21	SUCTION SUPPLY
9	JOCKEY PUMP CONTROL PANEL		
10	O.S. & Y. GATE VALVE WITH TAMPER SWITCH (TYPICAL)		
11	TEST HEADER & PIPING (PROVIDE ONLY IF REQD BY LOCAL AUTHORITIES)		
12	GATE VALVE		
13	1/2" COPPER OR BRASS SENSING LINE		

NOTES: 1. FOR ADDITIONAL INFORMATION, SIZES, ETC. SEE NFPA STANDARD 20.

01 ELECTRIC FIRE PUMP DETAIL

N.T.S.

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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD

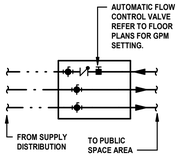
230 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09-17-2025
REVISIONS

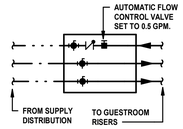
13-24114-00

FIRE PROTECTION DETAILS

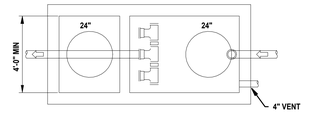
PF7.1



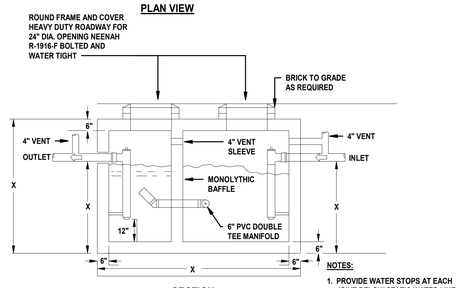
08 PUBLIC SPACE ACCESS PANEL
N.T.S.



07 GUESTROOM RISER ACCESS PANEL
N.T.S.



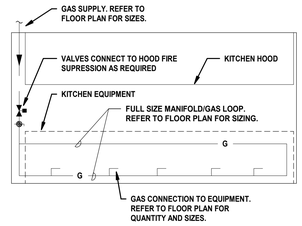
PLAN VIEW



SECTION

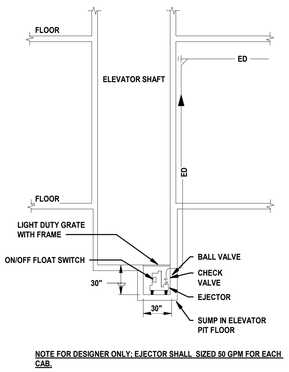
NOTES:

1. PROVIDE WATER STOPS AT EACH JOINT BELOW STATIC WATER LINE.
2. SEE STRUCTURAL DWGS. FOR CONSTRUCTION DETAILS.
3. PROVIDE ALL PIPE LINES WITH WATERPROOF SLEEVES.
4. PROVIDE TWO COATS OF COAL TAR EPOXY TO ALL CONCRETE SURFACES.



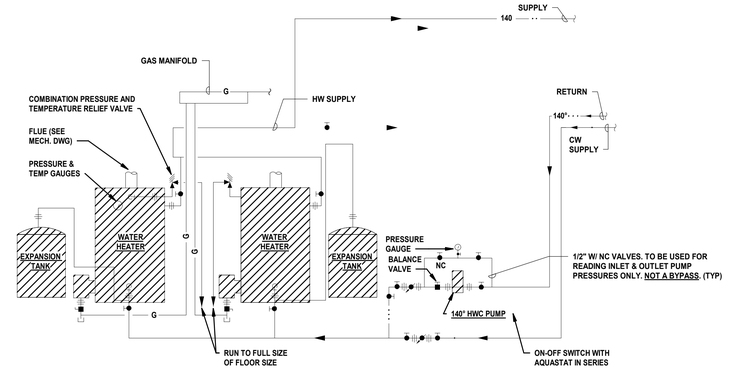
06 GAS SUPPLY LOOP FOR KITCHEN EQUIPMENT
N.T.S.

03 TWO COMPARTMENT GREASE INTERCEPTOR DETAIL
N.T.S.

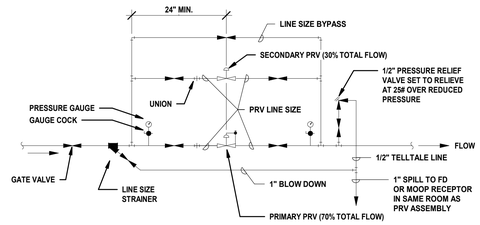


NOTE FOR DESIGNER ONLY: EJECTOR SHALL SIZED 50 GPM FOR EACH CAB.

05 ELEVATOR SUMP PUMP
N.T.S.

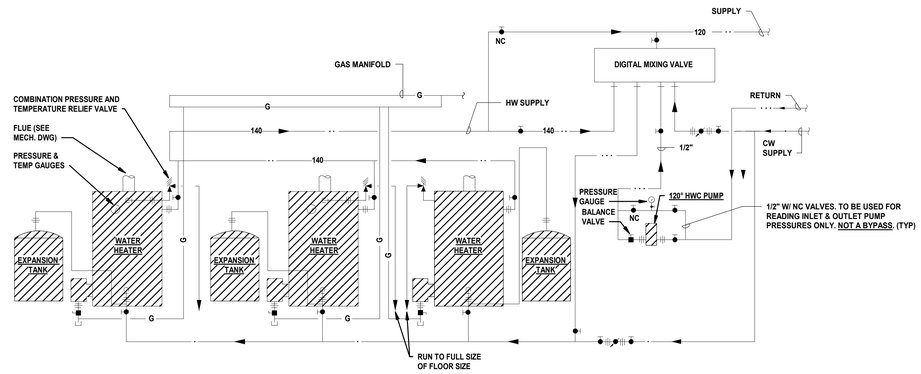


02 PUBLIC SPACE WATER HEATERS @ 140°
N.T.S.



NOTE: USE WITH MAXIMUM STATIC PRESSURE UP TO 150#.

04 LOW PRESSURE REDUCING VALVE ASSEMBLY
N.T.S.



01 GUESTROOM WATER HEATER ASSEMBLY STORED @ 140° DELIVERED @ 120°
N.T.S.

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SCHEMATIC DESIGN
09-17-2025
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PLUMBING DETAILS

PF7.2

STANDARD MECHANICAL SYMBOLS

VALVES, FITTINGS & DEVICES

SYMBOL	DESCRIPTION
	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	ANGLE VALVE
	CHECK VALVE
	AUTOMATIC CONTROL VALVE (STRAIGHT THROUGH)
	AUTOMATIC CONTROL VALVE (3-WAY)
	AUTOMATIC CONTROL VALVE (ANGLE)
	AUTOMATIC CONTROL VALVE (STRAIGHT THROUGH)
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	GAUGE COCK
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
	THERMOMETER WELL
	TEST PLUG
F	FLOW METER
T	TEMPERATURE SENSOR
P	PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SWITCH
T	IMMERSION THERMOSTAT
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
FS	FLOW SWITCH
	ORIFICE
	PIPE SLEEVE THRU WALL OR FLOOR
	EXPANSION JOINT
	FLEXIBLE PIPE JOINT
	PIPE GUIDE
	ANCHOR
	STRAINER (Y-TYPE)
	STRAINER (BASKET TYPE)
	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	DIRECTION OF FLOW
	DIRECTION OF SLOPE
V	VACUUM BREAKER
F&T	FLOAT & THERMOSTATIC STEAM TRAP
B	BUCKET STEAM TRAP
T	THERMOSTATIC STEAM TRAP
F	FLOAT STEAM TRAP
	THERMODYNAMIC STEAM TRAP
	REFRIGERANT SIGHT GLASS
	REFRIGERANT EXPANSION VALVE
T	THERMOSTAT
H	HUMIDISTAT
FSC	FAN SPEED CONTROLLER

PIPING

CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
	LOW PRESSURE STEAM (0 TO 15 PSIG)
	MEDIUM PRESSURE STEAM (15 TO 100 PSIG)
	LOW PRESSURE CONDENSATE (ABOVE 100 PSIG)
	HIGH PRESSURE CONDENSATE
	MEDIUM PRESSURE CONDENSATE
	HIGH PRESSURE CONDENSATE
D	CONDENSATE DRAIN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
RHG	REFRIGERANT HOT GAS
SPCHS	SPECIAL PROCESS CHILLED WATER SUPPLY
SPCHR	SPECIAL PROCESS CHILLED WATER RETURN
SCHS	SECONDARY CHILLED WATER SUPPLY
SCHR	SECONDARY CHILLED WATER RETURN

NOT ALL SYMBOLS ABOVE ARE NECESSARILY USED

DUCTWORK LEGEND

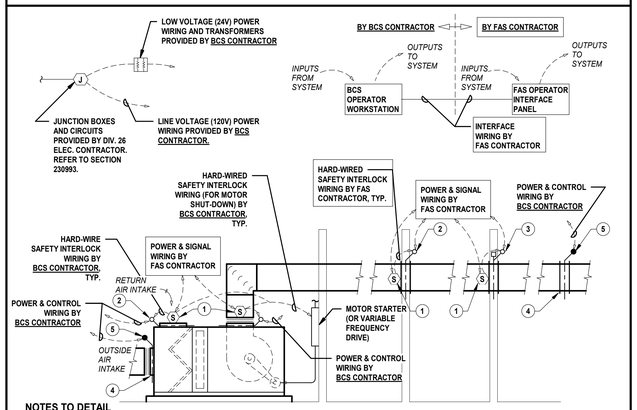
DESCRIPTION	DOUBLE LINE
ROUND DUCT	
ELBOW DOWN	
ELBOW UP	
OFFSET TO CHANGE ELEVATION, AT 30° WHEN POSSIBLE. ARROW SLOPES DOWN, U.N.O.	
RADIUS ELBOW	
90° STRAIGHT TAP	
90° CONICAL TAP	
45° LATERAL TAP	
SIZE OR SHAPE TRANSITION	
FLEXIBLE DUCT	
RECTANGULAR DUCT	
SUPPLY DUCT RISER (REFER TO PLAN DRAWINGS FOR AIR SYSTEM DESCRIPTION)	
RETURN AIR DUCT RISER	
EXHAUST AIR DUCT RISER	
INSULATED DUCTWORK (U.N.O.)	
BRANCH TAKE-OFF WIH 45° LEAD IN TAP	
ELBOW DOWN	
ELBOW UP	
OFFSET TO CHANGE ELEVATION, AT 30° WHEN POSSIBLE. ARROW SLOPES DOWN, U.N.O.	
ELBOW RADIUS AND SQUARE WITH TURNING VANES	
SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW AND SPLITTER DAMPER	
SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPLITTER DAMPER	
SPLIT BRANCH TAKE-OFF TEE WITH SPLITTER DAMPER	
SUPPLY AIR CEILING DIFFUSER W/ 4 WAY DIRECTIONAL THROW (U.N.O.) REFER TO FLOOR PLAN'S AND SCHEDULE'S FOR DIFFUSER SIZE AND RUNOUT SIZE.	
RETURN AIR CEILING GRILLE. REFER TO FLOOR PLAN'S AND SCHEDULE'S FOR DIFFUSER SIZE AND RUNOUT SIZE.	
EXHAUST AIR CEILING REGISTER. REFER TO FLOOR PLAN'S AND SCHEDULE'S FOR DIFFUSER SIZE AND RUNOUT SIZE.	
SIDE WALL SUPPLY GRILLE OR REGISTER. REFER TO FLOOR PLAN'S AND SCHEDULE'S FOR DIFFUSER SIZE AND RUNOUT SIZE.	
MANUAL BALANCING DAMPER	
AUTOMATIC (MOTORIZED) DAMPER	
GRAVITY BACKDRAFT DAMPER	
SMOKE DAMPER WITH SMOKE DETECTOR	
FIRE DAMPER	
COMBINATION FIRE AND SMOKE DAMPER	
DUCT MOUNTED SMOKE DETECTOR	

NOT ALL SYMBOLS ABOVE ARE NECESSARILY USED

MECHANICAL ABBREVIATIONS

A	Air or Compressed Air
AC	Air Conditioning
AD	Access Door
AF	Air Foil
AHU	Air Handling Unit
AMP	Ampere
AP	Access Panel
APD	Air Pressure Drop
ATM	Atmosphere
BHP	Brake Horsepower
BI	Backwards Inclined
BOD	Bottom of Duct
BTU	British Thermal Unit
BTUH	BTU per Hour
CENT	Centrifugal
CF	Cubic Feet
CFM	Cubic Feet per Minute
CH	Chilled or Chiller
CHW	Chilled Water
CHWR	Chilled Water Return
CHWS	Chilled Water Supply
CO	Carbon Monoxide
CONN	Connection
CT	Cooling Tower
CWR	Condenser Water Return
CWS	Condenser Water Supply
D	Drain
DB	Dry Bulb (Temperature)
DDC	Direct Digital Control
DEG	Degree
DIA	Diameter
DIM	Dimension
DP	Differential Pressure
EA	Each or Exhaust Air
EAT	Entering Air Temperature
ECH	Electric Cabinet Heater
EF	Exhaust Fan
EMER	Emergency
EMS	Energy Management System
ESP	External Static Pressure
ET	Expansion Tank
EUH	Electrical Unit Heater
EWT	Entering Water Temperature
EXH OR EX	Exhaust
EXP	Expansion
EXT	External
F	Fahrenheit
FA	Fire Alarm
FCU	Fan Coil Unit
FD	Floor Drain, Fire Damper, or Fire Department
FLA	Full Load Amps
FLEX	Flexible
FPM	Feet per Minute
FPS	Feet per Second
FS	Flow Switch
FT	Feet
FV	Face Velocity
G	Gas
GA	Gauge
GAL	Gallons
GALV	Galvanized
GFU	Glycol Feed Unit
GPH	Gallons per Hour
GPM	Gallons per Minute
HB	Hose Bib (Connection)
HD	Head
HP	Horsepower or High Point
HR	Hour
HTG	Heating
HZ	Hertz (Cycles per Second)
ID	Inside Diameter
IN	Inches
KW	Kilowatt
LAT	Leaving Air Temperature
LB	Pound
LF	Linear Feet
LRA	Locked Rotor Amps
LVG	Leaving
LWT	Leaving Water Temperature
MAX	Maximum
MBH	1000 BTUH
MCA	Minimum Circuit Amps
MECH	Mechanical
MIN	Minimum
MUA	Make-Up Air
NC	Noise Criteria or Normally Closed
NO	Normally Open
NOM	Nominal
OA	Outside Air
OC	On Center
OD	Outside Diameter
ODP	Open Drip Proof
PCF	Pounds per Cubic Foot
PD	Pressure Drop
PH	Phase
PRV	Pressure Reducing Valve
PSI	Pounds per Square Inch
PSIA	Pounds per Square Inch - Absolute
PSIG	Pounds per Square Inch - Gauge
PVC	Polyvinyl Chloride
R	Radius
RA	Return Air
RH	Relative Humidity
RLA	Running Load Amps
RPM	Revolutions per Minute
RTU	Roof-Top Unit
SA	Supply Air
SD	Smoke Detector or Smoke Damper
SE	Smoke Exhaust
SF	Square Feet
SHC	Sensible Heat Capacity
SP	Static Pressure
SS	Stainless Steel
T	Thermostat
TEFC	Totally Enclosed Fan Cooled
TEMP	Temperature
TON	12,000 BTUH (Cooling Capacity)
TSP	Total Static Pressure
TYP	Typical
UC	Undercut (Door)
V	Volts
VAV	Variable Air Volume
VD	Volume Damper
VEL	Velocity
VFD	Variable Frequency Drive
WB	Wet Bulb Temperature
WC	Water Column
WG	Water Gauge
WPD	Water Pressure Drop

DAMPER & SMOKE DETECTOR FURNISHING, INSTALLING & WIRING RESPONSIBILITY DIAGRAM



NOTES TO DETAIL

1. SMOKE DETECTORS FURNISHED BY DIV. 28 FIRE ALARM SYSTEM (FAS) CONTRACTOR, INSTALLED BY DIV. 23 SHEET METAL CONTRACTOR.
2. SMOKE DAMPER AND ACTUATOR FURNISHED AND INSTALLED BY DIV. 23 SHEET METAL CONTRACTOR.
3. FIRE/SMOKE DAMPER AND ACTUATORS FURNISHED AND INSTALLED BY DIV. 23 SHEET METAL CONTRACTOR.
4. MOTOR-OPERATED (AUTOMATIC) DAMPER FURNISHED AND INSTALLED BY DIV. 23 SHEET METAL CONTRACTOR.
5. MOTOR (ACTUATOR) FURNISHED AND INSTALLED BY BUILDING CONTROL SYSTEM (BCS) CONTRACTOR.

GENERAL MECHANICAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR RATED WALLS AND PARTITIONS. VERIFY FIRE AND/OR SMOKE DAMPER LOCATIONS AT DUCTS OR OPENINGS PENETRATING THESE WALLS.
2. REFER TO ARCHITECTURAL PLANS FOR ROOM NAMES AND NUMBERS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTER, AND GRILLES.
4. VERIFY LOCATIONS OF THERMOSTATS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
5. VERIFY LOCATIONS OF EXPOSED DUCTS WITH ARCHITECT PRIOR TO INSTALLATION.
6. DUCT DIMENSIONS INDICATED ON PLANS ARE FREE AREA DIMENSIONS.
7. ALL SUPPLY AND RETURN AIR DUCT SHALL BE INTERNALLY LINED AS SPECIFIED.
8. ALL LOUVER SIZES ON MECHANICAL PLANS ARE GIVEN IN FREE AREA REQUIRED. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND LOCATIONS.
9. PROVIDE COMPLETE UL LISTED HEAT-TRACING SYSTEMS TO PREVENT FREEZING OF ANY PIPING SYSTEMS.

AIR DEVICE LEGEND

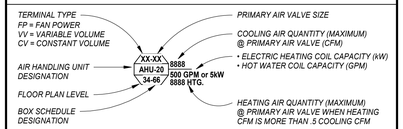
Designation	Description	Designation	Description
SA1 / EX1 / RA1	Perforated face aluminum ceiling diffuser with adjustable pattern controller. Reference schedule for detailed information.	SA10 / EX10	• Extruded aluminum linear fixed bar diffuser with 7/16" bars and 0 degree deflection. Core and frame shall be properly sized to allow sheet metal duct connection as indicated on drawings. • If diffuser is indicated in floor, provide model adaquate to support traffic loads. Size and air quantity indicated on schedules / drawings.
SA2 / EX2 / RA2	12"x12" similar to Type 'SA1' . Reference schedule for detailed information.	SA11 / EX11 / RA11	High capacity heavy guage aluminum adjustable drum louver with opposed blade volume damper . Size and air quanity indicated on schedules / drawings.
SA3 / EX3 / RA3	Louvered face high capacity aluminum ceiling supply diffuser with movable vanes and accessible face to adjust discharge pattern. Reference schedule for detailed information.	SA12 / EX12 / RA12	24"x24" aluminum architectural square panel ceiling supply diffuser with optional directional blow clips as indicated on the drawings. Reference schedule for detailed information.
SA4 / EX4 / RA4	12"x12" similar to Type 'SA3' . Reference schedule for detailed information.	SA13 / EX13 / RA13	12"x12" similar to Type 'SA12'. Reference schedule for detailed information.
SA5 / EX5 / RA5	Louvered supply grill and register. Refer to schedule for module criteria. Size and air quantity indicated on schedules / drawings. Exhaust registers shall have opposed blade damper.	SA14 / EX14 / RA14	24"x24" louvered face high performance aluminum ceiling supply diffuser with movable vanes and accessible face to adjust discharge pattern. Reference schedule for detailed information.
SA6 / EX6 / RA6	• Aluminum T-bar plenum slot diffuser with internal insulation, 1" slots and pattern controllers allowing full 180 degree pattern adjustment and volume control. Reference schedule for detailed information. • Provide continuous architectural slot in ceiling as indicated on drawings. • Provide return air boot (see detail) and coordinate ceiling framing to accommodate return air at inactive sections U.N.O.	SA15 / EX15 / RA15	12"x12" similar to Type 'SA14'. Reference schedule for detailed information.
SA7 / EX7 PL7	• Extruded aluminum linear slot diffuser with 1" slots and pattern controllers allowing full 180 degree pattern adjustment and volume control. Reference schedule for detailed information. • Provide field fabricated or manufacturer's supply air plenum at active sections. Scheduled plenum dimensions are approximate. Coordinate exact dimensions with supply air device. • Provide continuous architectural slot in ceiling as indicated on the drawings. Provide return air boot (see detail) and coordinate ceiling framing to accommodate return air at inactive sections U.N.O.	SA16 / EX16 / RA16	Round aluminum ceiling supply diffuser with movable cones to adjust discharge pattern. Reference schedule for detailed information.
SA8 / EX8	• Extruded aluminum continuous linear single slot diffuser with integral pattern controllers designed for horizontal throw with hidden flange border for gyp board ceilings sidewall applications. • Air quantity and slot width as indicated in schedule or on drawings. • Provide continuous architectural slot in ceiling as indicated on the drawings with supply air plenum at active sections. Refer to architectural plans for exact length. Coordinate ceiling framing and provide light shield to accommodate return air at inactive sections U.N.O.	SA17 / EX17 / RA17	24"x24" variable volume architectural square panel ceiling supply diffuser. Reference schedule for detailed information.
SA9 / EX9	• Extruded aluminum continuous linear single slot diffuser with integral pattern controllers designed for vertical throw in high ceiling spaces with hidden flange border for gyp board ceilings or sidewall applications. • Air quantity and slot width indicated on drawings. • Provide continuous architectural slot in ceiling as indicated on the drawings with supply air plenum at active sections. Refer to architectural plans for exact length. Coordinate ceiling framing and provide light shield to accommodate return air at inactive sections U.N.O.		

AIR DEVICE NOTES

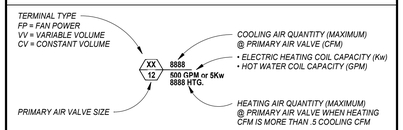
1. Not all designations or sizes are necessarily used on this project.
2. Provide border suitable for the installation location as required.
3. Refer to manufacturer for standard finish. Coordinate with Architect for color and final painting.
4. Coordinate exact locations of all air devices with Architectural Reflected Ceiling Plans.
5. Diffusers indicated on drawings supersede schedule.

ANNOTATION LEGEND

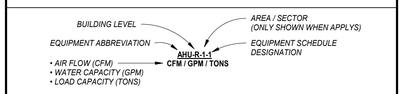
TERMINAL BOX DESIGNATION TAG



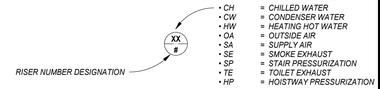
TERMINAL BOX DESIGNATION TAG_ALTERNATE



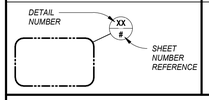
EQUIPMENT DESIGNATION TAG



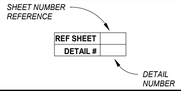
RISER DESIGNATION TAG



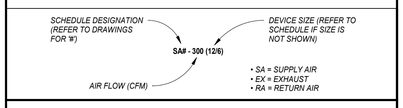
ENLARGED FLOOR PLAN DESIGNATION



ENLARGED GUESTROOM/APT. DESIGNATION

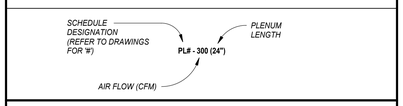


CEILING/SIDEWALL DIFFUSER DESIGNATION



SLOT DIFFUSER DESIGNATION

SUPPLY PLENUM DESIGNATION



DUCT SIZE DESIGNATIONS

ROUND DUCT	RECTANGULAR DUCT	OVAL DUCT
12" Ø	12/12	12/12 ɵ

NOT ALL SYMBOLS SHOWN ABOVE ARE NECESSARILY USED IN THIS PROJECT

MECHANICAL SHEET LIST

Sheet #	Sheet Name
M0.0	NOTES, SYMBOLS, LEGEND & ABBREVIATIONS
M6.1	MECHANICAL SCHEDULES
M7.1	MECHANICAL DETAILS
M7.2	MECHANICAL DETAILS
M7.3	MECHANICAL DETAILS
M7.4	MECHANICAL DETAILS
TOTAL: 6	

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SCHEMATIC DESIGN
09-17-2025
REVISIONS

13-24114-00

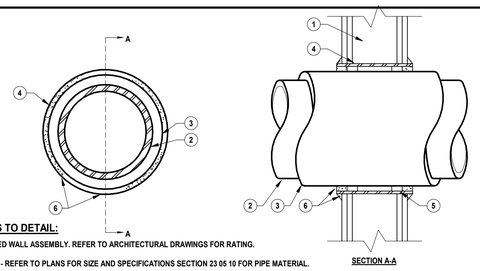
NOTES, SYMBOLS, LEGEND & ABBREVIATIONS

M0.0

GENERAL NOTES APPLICABLE TO ALL PENETRATION DETAILS:

A. DUCT AND PIPE PENETRATION DETAILS ARE GENERAL INSTALLATION DETAILS BASED ON COMMON WALL/FLOOR ASSEMBLIES. REFER TO "UL FIRE RESISTANCE DIRECTORY" (LATEST EDITION) AND FIRESTOP SYSTEM MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR APPROPRIATE UL SYSTEM CLASSIFICATION FOR OTHER WALL/FLOOR ASSEMBLIES.

B. REFER TO DIV. 7 SPECIFICATIONS FOR FIRESTOP SYSTEMS AND MATERIALS REQUIREMENTS.



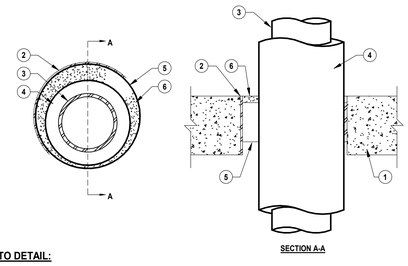
NOTES TO DETAIL:

1. RATED WALL ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR RATING.
2. PIPE - REFER TO PLANS FOR SIZE AND SPECIFICATIONS SECTION 23 05 10 FOR PIPE MATERIAL.
3. INSULATION - REFER TO SPECIFICATION SECTION 23 07 01.
4. MIN. 28 GAUGE GALVANIZED STEEL SLEEVE. LENGTH OF SLEEVE TO BE EQUAL TO THICKNESS OF WALL ASSEMBLY PLUS 1" SUCH THAT, WHEN INSTALLED, THE SLEEVE PROJECTS APPROXIMATELY 1/2" BEYOND THE SURFACE OF THE WALL ON BOTH SIDES. THE DIAMETER OF THE OPENING CUT IN THE WALL SHALL BE 2 TO 2-1/2" LARGER THAN OUTSIDE DIAMETER OF PIPE INSULATION SUCH THAT, WHEN THE SLEEVE INS INSTALLED, A 1" TO 1-1/2" ANNULAR SPACE IS PRESENT BETWEEN THE SLEEVE AND THE PIPE INSULATION AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE.
5. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR MIN. 1" THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO SLEEVE ON BOTH SIDES OF WALL AS PERMANENT FORMS. PACKING MATERIAL SHALL BE RECESSED MIN. 1" FROM END OF SLEEVE ON BOTH SIDES OF WALL.
6. MIN. 1" THICKNESS OF FILL MATERIAL BEARING THE UL CLASSIFICATION MARKING SHALL BE APPLIED WITHIN ANNULUS ON BOTH SIDES OF WALL 1/4" DIAMETER CONTINUOUS BEAD OF CAULK SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE SLEEVE AT ITS EGRESS FROM THE GYP. BOARD ON BOTH SIDES OF THE WALL.

GENERAL NOTE:

A. INSTALLATION SHALL ADHERE TO UL 1479

INSULATED METAL PIPE THROUGH RATED WALL (GYP./STUD WALL) 01
N.T.S.



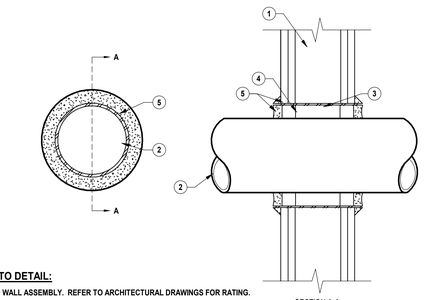
NOTES TO DETAIL:

1. CONCRETE FLOOR OR WALL.
2. STEEL SLEEVE - REFER TO SPECIFICATIONS SECTION 23 05 01.
3. PIPE - REFER TO PLANS FOR SIZE AND SPECIFICATIONS SECTION 23 05 10 FOR PIPE MATERIAL.
4. INSULATION - REFER TO SPECIFICATIONS SECTION 23 07 01.
5. PACKING MATERIAL - MIN. 3" THICK OF MIN. 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR TOP EDGE OF SLEEVE OR FROM BOTH SURFACES OF WALL OR BOTH ENDS OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
6. MIN. 1/2" THICKNESS OF CAULK BEARING THE UL CLASSIFICATION MARKING APPLIED WITHIN THE ANNULUS FLUSH WITH TOP SURFACE OF FLOOR OR TOP EDGE OF SLEEVE OR WITH BOTH SURFACES OF WALL OR BOTH ENDS OF SLEEVE.

GENERAL NOTE:

A. INSTALLATION SHALL ADHERE TO UL 1479

INSULATED METAL PIPE THROUGH RATED WALL OR FLOOR (CONC.). 02
N.T.S.



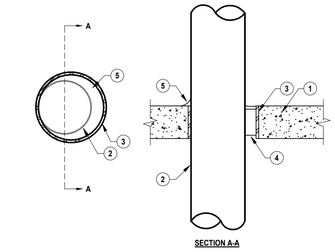
NOTES TO DETAIL:

1. RATED WALL ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR RATING.
2. PIPE - REFER TO PLANS FOR SIZE AND SPECIFICATIONS SECTION 23 05 10 FOR PIPE MATERIAL.
3. STEEL SLEEVE - REFER TO SPECIFICATIONS SECTION 23 05 01.
4. MIN. 1" THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF WALL ASSEMBLY AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED MIN. 1/2" FROM END OF SLEEVE (FLUSH WITH OR RECESSED INTO GYP. WALLBOARD SURFACE) ON BOTH SIDES OF WALL.
5. CAULK BEARING THE UL CLASSIFICATION MARKING SHALL BE APPLIED TO FILL THE SLEEVE TO A MIN. DEPTH OF 1/2" ON BOTH SIDES OF WALL. A NOMINAL 1/4" DIAMETER BEAD OF CAULK SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE SLEEVE AT ITS EGRESS FROM THE WALL ON BOTH SIDES OF THE WALL.

GENERAL NOTE:

A. INSTALLATION SHALL ADHERE TO UL 1479

UNINSULATED METAL PIPE THRU RATED WALL (GYP./STUD WALL) 03
N.T.S.



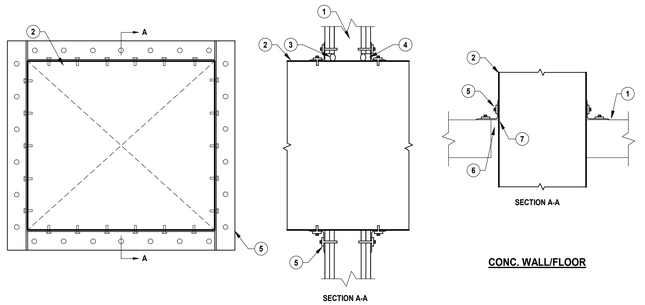
NOTES TO DETAIL:

1. CONCRETE WALL OR FLOOR.
2. PIPE - REFER TO PLANS FOR SIZE AND SPECIFICATIONS SECTION 23 05 10 FOR PIPE MATERIAL.
3. STEEL SLEEVE - REFER TO SPECIFICATIONS SECTION 23 05 01.
4. MIN. 2" THICKNESS OF MIN. 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR TOP EDGE OF SLEEVE OR FROM BOTH SURFACES OF WALL OR BOTH ENDS OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
5. MIN. 1/2" THICKNESS OF CAULK BEARING THE UL CLASSIFICATION MARKING SHALL BE APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR TOP EDGE OF SLEEVE OR WITH BOTH SURFACES OF WALL OR BOTH ENDS OF SLEEVE. PROVIDE MIN. 1/4" DIAMETER BEAD OF CAULK TO PIPE/SLEEVE OR PIPE/CONCRETE INTERFACE AT THE POINT OF CONTACT ON TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.

GENERAL NOTE:

A. INSTALLATION SHALL ADHERE TO UL 1479

UNINSULATED METAL PIPE THRU RATED WALL OR FLOOR (CONC.). 04
N.T.S.



CONC. WALL/FLOOR

GYP./STUD WALL

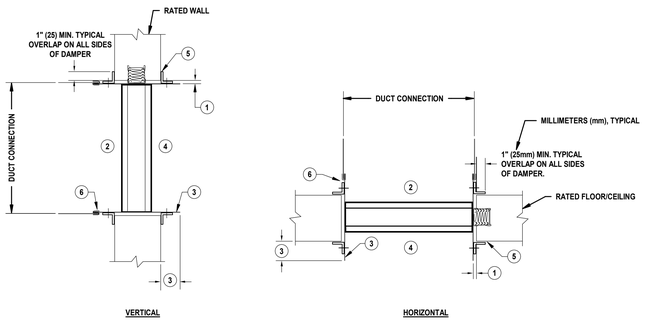
NOTES TO DETAIL:

1. RATED WILL OR FLOOR ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR RATING.
2. GALVANIZED STEEL DUCT (MIN. 24 GAUGE) WITH MAX 1" ANNULAR SPACE BETWEEN DUCT AND WALL OPENING.
3. OPTIONAL PACKING MATERIAL - POLYETHYLENE BACKER ROD. MINERAL WOOL BATT INSULATION, OR FIBERGLASS BATT INSULATION FRICTION-FIT INTO ANNULAR SPACE FOR 2-HOUR RATED WALL ASSEMBLIES ONLY. RECESS PACKING MATERIAL FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL (SEE NOTE 4).
4. FILL, VOID, OR CAVITY MATERIAL BEARING THE UL CLASSIFICATION MARKING - MIN. 5/8" THICKNESS OF FILL MATERIAL SHALL BE APPLIED WITHIN ANNULUS FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND WALLBOARD. A MIN. 1/4" DIAMETER BEAD OF SEALANT SHALL BE APPLIED AT THE WALLBOARD/DUCT INTERFACE ON BOTH SURFACES OF WALL.
5. MIN. 16 GAUGE GALVANIZED STEEL ANGELS SIZED TO LAP DUCT A MIN. OF 2" AND LAP WALL SURFACES A MIN. OF 1". ATTACH ANGLES TO DUCT ON BOTH SIDES OF WALL WITH MIN 1/2" LONG, NO. 10 (OR LARGER) SHEET METAL SCREWS SPACED A MAX. OF 1" FROM EACH END OF DUCT AND SPACED A MAX. OF 6" O.C.
6. NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL SHALL BE RECESSED FROM TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL.
7. MIN. 1" THICKNESS OF FILL MATERIAL BEARING THE UL CLASSIFICATION MARKING SHALL BE APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND CONCRETE, A MIN. 1/4" DIAMETER BEAD OF SEALANT (NOT SHOWN) SHALL BE APPLIED TO THE CONCRETE/DUCT INTERFACE ON THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF THE WALL.

GENERAL NOTE:

A. INSTALLATION SHALL ADHERE TO UL 1479

METAL DUCT (W/O DAMPER) THROUGH RATED WALL/FLOOR 05
N.T.S.



NOTES TO DETAIL:

1. OPENING IS WALL OR FLOOR SHALL BE LARGER THAN THE DAMPER/SLEEVE ASSEMBLY TO PERMIT INSTALLATION OR EXPANSION. FOR TWO ANGLE INSTALLATIONS, THE OPENING SHALL BE A MIN. OF 1/8" PER FOOT (3 PER 305) LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY. THE MAX. OPENING SIZE SHALL NOT EXCEED 1/8" PER FOOT (3 PER 305) PLUS 2" (51), NOR SHALL THE OPENING BE LESS THAN 1/4" (6) LARGER THAN THE DAMPER/SLEEVE ASSEMBLY. FOR ONE ANGLE INSTALLATIONS, THE OPENING SHALL BE A MIN. OF 1/4" (6) TO A MAX. OF 1" (25) LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY.
2. REFER TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR JOINING INDIVIDUAL DAMPERS TO MAKE MULTIPLE SECTION DAMPER ASSEMBLIES OR FOR FASTENING DAMPER TO SLEEVE.
3. SLEEVE THICKNESS MUST BE EQUAL TO OR GREATER THAN THE DUCT CONNECTED TO IT. REFER TO SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS AND NFPA 90A. IF BREAK-AWAY STYLE DUCT/SLEEVE IS NOT USED, SLEEVE SHALL BE A MIN. 16 GA. (1.6) FOR DAMPERS UP TO 36" (914) WIDE BY 24" (610) HIGH AND 14 GA. (1.9) FOR LARGER DAMPERS. DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" (152) BEYOND FIRE WALL OR PARTITION UNLESS DAMPER IS EQUIPPED WITH FACTORY INSTALLED ACCESS DOOR. SLEEVE MAY EXTEND UP TO 16" (406) BEYOND FIRE WALL OR PARTITION ON SIDES EQUIPPED WITH FACTORY INSTALLED ACCESS DOOR.
4. DAMPER ORIENTATION - USE "AIR FLOW" AND "MOUNT WITH ARROW UP" LABELS ON DYNAMIC MODELS FOR PROPER DAMPER ORIENTATION. FOR STATIC MODELS, USE ONLY "MOUNT WITH ARROW UP" LABEL ON DAMPER FOR PROPER ORIENTATION.
5. MOUNTING ANGLES SHALL BE A MIN. 1-1/2" x 1-1/2" x 20 GA. STEEL (38 x 38 x 1.0) FOR OPENINGS IN METAL STUD, WOOD STUD, OR CONCRETE/MASONRY WALLS AND FLOORS OF SIZES 90" x 49" (2286 x 1245) AND LESS. MOUNTING ANGLES ARE REQUIRED ON ONE SIDE OF THE ALL OR TOP SIDE OF THE FLOOR AND MUST BE ATTACHED TO BOTH THE SLEEVE AND THE WALL OR FLOOR. MOUNTING ANGLES MAY BE INSTALLED DIRECTLY TO THE METAL STUD UNDER THE WALL BOARD ON METAL STUD WALL INSTALLATIONS ONLY. LARGER OPENINGS REQUIRED MOUNTING ANGLES ON BOTH SIDES OF THE PARTITION AND MUST BE ATTACHED ONLY TO THE SLEEVE. MOUNTING ANGLES MUST OVERLAP THE PARTITION A MIN. OF 1" (25). DO NOT WELD OR FASTEN ANGLES TOGETHER AT CORNERS OF DAMPERS.
6. BREAK-AWAY DUCT/SLEEVE CONNECTIONS SHALL BE PER NFPA 90A AND UL 555 APPROVED.

GENERAL NOTES:

A. SHEET METAL CONTRACTOR SHALL FURNISH CONSTRUCTION CONTRACTOR WITH SIZES OF OPENINGS. OPENING(S) SHALL BE PACKED WITH SUITABLE FIRE RETARDANT MATERIAL (NOT SHOWN).

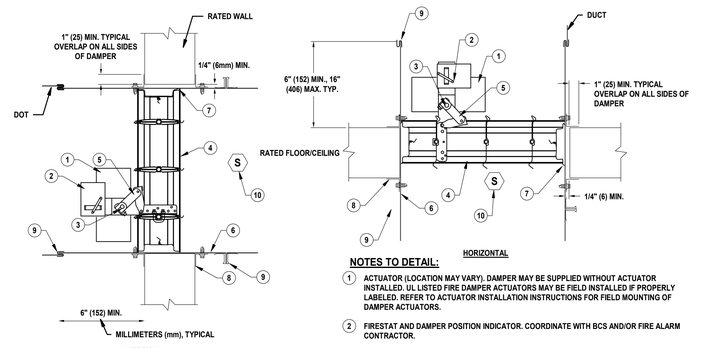
B. LOCATE ACCESS DOOR(S) AS REQUIRED TO ENABLE RESETTING OF DAMPER. MORE THAN ONE DOOR MAY BE REQUIRED ON LARGE DUCTS.

C. HORIZONTAL DAMPERS SHALL BE SPRING LOADED TYPE.

D. PENETRATIONS THROUGH SLABS SHALL BE SEALED WATERTIGHT.

E. INSTALLATION SHALL ADHERE TO UL 555.

FIRE DAMPER INSTALLATION 06
N.T.S.



NOTE:

CONTRACTOR SHALL KEEP TWO COPIES OF THE MANUFACTURER'S FIRE/SMOKE DAMPER INSTALLATION MANUAL ON SITE AT ALL TIMES FOR REVIEW BY LOCAL BUILDING INSPECTOR.

NOTES TO DETAIL:

1. ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. UL LISTED FIRE DAMPER ACTUATORS MAY BE FIELD INSTALLED IF PROPERLY LABELED. REFER TO ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS.
2. FIRESTAT AND DAMPER POSITION INDICATOR. COORDINATE WITH BCS AND/OR FIRE ALARM CONTRACTOR.
3. AUXILIARY OPERATING JACK SHAFT.
4. DAMPER.
5. OVER-CENTER LOCK.
6. SLEEVE.
7. CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME).
8. MOUNTING ANGLES.
9. S-JOINT/DUCT MATE, SLEEVE TO DUCT.
10. DUCT SMOKE DETECTOR WITHIN 5 FEET OF DAMPER WITH NO AIR OUTLETS O INLETS BETWEEN DAMPER AND DETECTOR. DETECTOR SHALL BE LISTED FOR AIR VELOCITY, TEMPERATURE, AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED.

GENERAL NOTES:

A. OPENING IS WALL OR FLOOR SHALL BE LARGER THAN THE DAMPER/SLEEVE ASSEMBLY TO PERMIT INSTALLATION OR EXPANSION. FOR TWO ANGLE INSTALLATIONS, THE OPENING SHALL BE A MIN. OF 1/8" PER FOOT (3 PER 305) LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY. THE MAX. OPENING SIZE SHALL NOT EXCEED 1/8" PER FOOT (3 PER 305) PLUS 2" (51), NOR SHALL THE OPENING BE LESS THAN 1/4" (6) LARGER THAN THE DAMPER/SLEEVE ASSEMBLY. FOR ONE ANGLE INSTALLATIONS, THE OPENING SHALL BE A MIN. OF 1/4" (6) TO A MAX. OF 1" (25) LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY.

B. REFER TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR JOINING INDIVIDUAL DAMPERS TO MAKE MULTIPLE SECTION DAMPER ASSEMBLIES OR FOR FASTENING DAMPER TO SLEEVE.

C. SLEEVE THICKNESS MUST BE EQUAL TO OR GREATER THAN THE DUCT CONNECTED TO IT. REFER TO SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS AND NFPA 90A. IF BREAK-AWAY STYLE DUCT/SLEEVE IS NOT USED, SLEEVE SHALL BE A MIN. 16 GA. (1.6) FOR DAMPERS UP TO 36" (914) WIDE BY 24" (610) HIGH AND 14 GA. (1.9) FOR LARGER DAMPERS. DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" (152) BEYOND FIRE WALL OR PARTITION UNLESS DAMPER IS EQUIPPED WITH FACTORY INSTALLED ACCESS DOOR. SLEEVE MAY EXTEND UP TO 16" (406) BEYOND FIRE WALL OR PARTITION ON SIDES EQUIPPED WITH FACTORY INSTALLED ACCESS DOOR.

D. DAMPER ORIENTATION - DAMPER IS DESIGNED TO OPERATE WITH BLADES RUNNING HORIZONTALLY AND MUST BE INSTALLED WITH LEADING EDGE OF CLOSED BLADES WITHIN THE WALL O FLOOR/CEILING WHEN THEY ARE IN THE CLOSED POSITION. USE "AIR FLOW" AND/OR "MOUNT WITH ARROW UP" LABELS AS A GUIDE FOR PROPER ORIENTATION. HORIZONTAL DAMPERS MAY BE INSTALLED WITH ACTUATOR ABOVE OR BELOW FLOOR. TO INSURE PROPER OPERATION, THE DAMPER MUST BE INSTALLED SO THAT IT IS SQUARE AND FREE FROM RACKING. DO NOT COMPRESS OR STRETCH THE DAMPER FRAME INTO THE DUCT/SLEEVE OPENING.

E. MOUNTING ANGLES SHALL BE A MIN. 1-1/2" x 1-1/2" x 20 GA. STEEL (38 x 38 x 1.0) FOR OPENINGS IN METAL STUD, WOOD STUD, OR CONCRETE/MASONRY WALLS AND FLOORS OF SIZES 90" x 49" (2286 x 1245) AND LESS. MOUNTING ANGLES ARE REQUIRED ON ONE SIDE OF THE ALL OR TOP SIDE OF THE FLOOR AND MUST BE ATTACHED TO BOTH THE SLEEVE AND THE WALL OR FLOOR. MOUNTING ANGLES MAY BE INSTALLED DIRECTLY TO THE METAL STUD UNDER THE WALL BOARD ON METAL STUD WALL INSTALLATIONS ONLY. LARGER OPENINGS REQUIRED MOUNTING ANGLES ON BOTH SIDES OF THE PARTITION AND MUST BE ATTACHED ONLY TO THE SLEEVE. MOUNTING ANGLES MUST OVERLAP THE PARTITION A MIN. OF 1" (25). DO NOT WELD OR FASTEN ANGLES TOGETHER AT CORNERS OF DAMPERS.

F. BREAK-AWAY DUCT/SLEEVE CONNECTIONS SHALL BE PER NFPA 90A AND UL 555 APPROVED.

G. ELECTRIC ACTUATORS ARE TO BE CONNECTED IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES , AND REGULATIONS. DAMPER ASSEMBLIES HAVING MULTIPLE ACTUATORS MUST HAVE ALL ACTUATORS WIRED TO A SINGLE HEAT ACTUATED DEVICE FOR SIMULTANEOUS CLOSURE OF ALL SECTIONS.

H. COMBINATION FIRE/SMOKE DAMPERS WITH EQUIPMENT DESIGNATIONS (E.G., FSD-X-X) ON THE PLANS ARE CONTROLLED BY THE SMOKE CONTROL SYSTEM, IF APPLICABLE; A LOCAL SMOKE DETECTOR IS NOT REQUIRED. FIRE/SMOKE DAMPERS WITHOUT DESIGNATIONS ARE NOT PART OF THE SMOKE CONTROL SYSTEM AND SHALL BE ACTIVATED BY A LOCAL SMOKE DETECTOR.

I. INSTALLATION SHALL ADHERE TO UL 555.

COMBINATION FIRE/SMOKE DAMPER INSTALLATION 07
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22-045.00

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GARFIELD

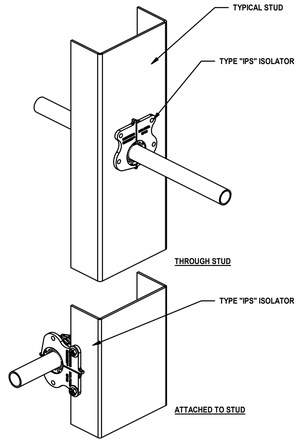
220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09-17-2025
REVISIONS

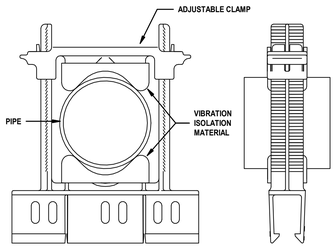
13-24114-00

MECHANICAL DETAILS

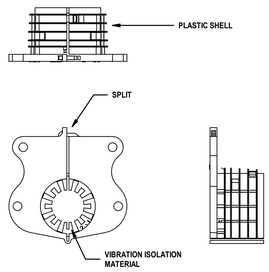
M7.1



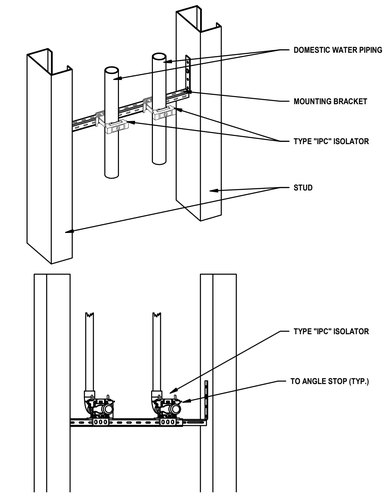
TYP. VIBRATION ISOLATION OF PIPES TO STUDS N.T.S. **07**



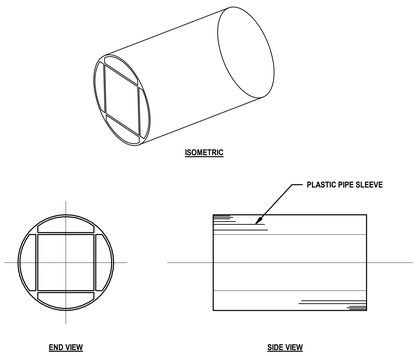
TYPE 'IPC' VIBRATION ISOLATION PIPE CLAMP N.T.S. **06**



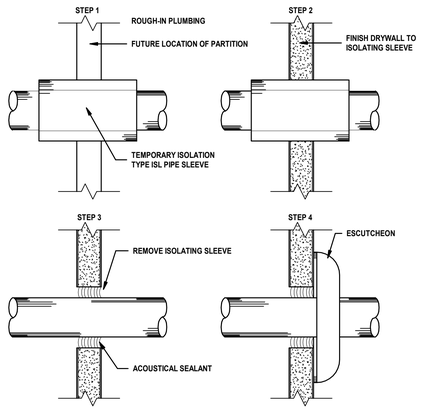
TYPE 'IPS' VIBRATION ISOLATION SLEEVE N.T.S. **05**



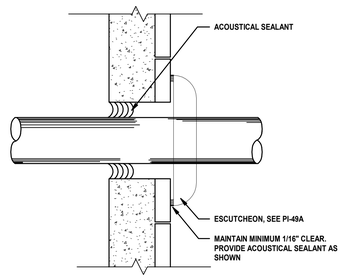
TYPICAL VIBRATION ISOLATION OF PIPING IN STUD CAVITY N.T.S. **04**



TYPE 'ISL' ISOLATION PIPE SLEEVE N.T.S. **03**



INSTALLATION OF ISOLATED SLEEVE + ESCUTCHEON N.T.S. **02**



GENERAL NOTES:

A. SPACE BETWEEN PIPE AND SLEEVE SHALL BE FREE OF ANY FOREIGN MATERIALS.

B. PIPE SHALL NOT CONTACT STRUCTURE AT ANY TIME. WEDGES SHALL NOT BE USED TO MAINTAIN PIPE IN POSITION.

C. PIPE MUST BE APPROXIMATELY CENTERED IN OPENING. PROVIDE ADDITIONAL CLEARANCE FOR POSITIONAL CHANGE OF PIPE DUE TO LOADING OF PIPE OR OPERATION OF SYSTEM.

ISOLATED PIPE PENETRATION N.T.S. **01**

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09-17-2025
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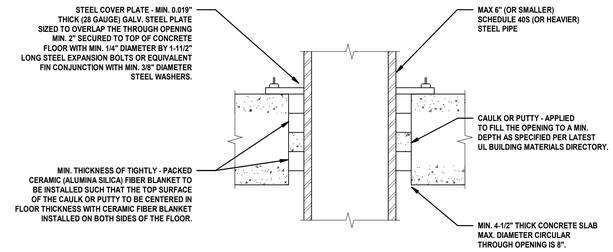
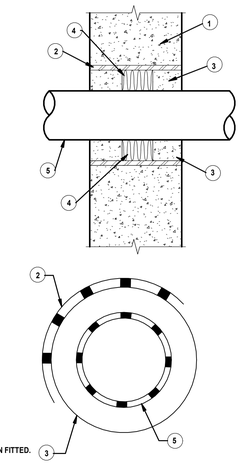
MECHANICAL DETAILS

M7.2



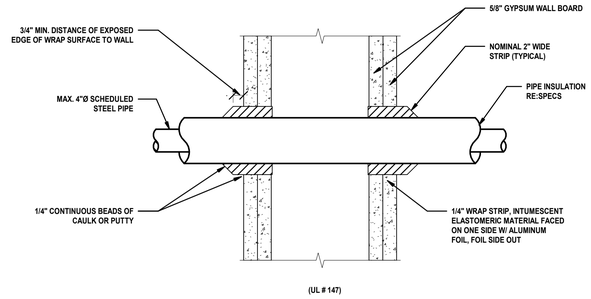
PIPE FLOOR SLAB PENETRATION DETAIL N.T.S. **06**



NOTES TO DETAIL:

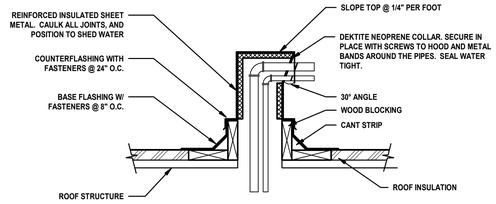
1. FLOOR OR WALL ASSEMBLY.
2. STEEL SLEEVE - SCH, 40 SLEEVE.
3. FILL, VOID OR CAVITY MATERIAL.
4. FORMING MATERIAL- MIN. 2 1/2" MINERAL WOOL BATTS, FRICTION FITTED.
5. STEEL PIPE OR CONDUIT.

PIPING WALL PENETRATION DETAIL N.T.S. **05**



(UL # 147)

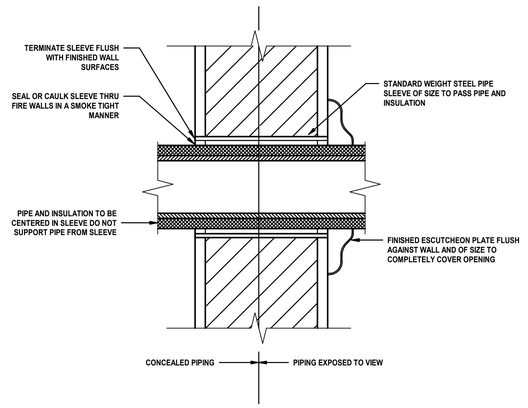
PIPING THRU WALL PENETRATION DETAIL N.T.S. **04**



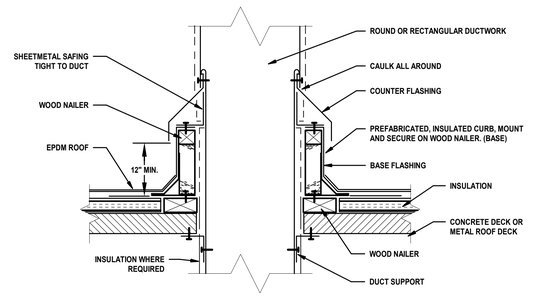
GENERAL NOTE:

A. A SYSTEM SIMILAR OR EQUIVALENT TO THE RPS "PIPE PORTAL SYSTEM" IS ALSO ACCEPTABLE.

PIPING ROOF PENETRATION N.T.S. **03**



PIPING PENETRATION THRU INTERIOR WALL N.T.S. **02**



DUCT ROOF PENETRATION N.T.S. **01**

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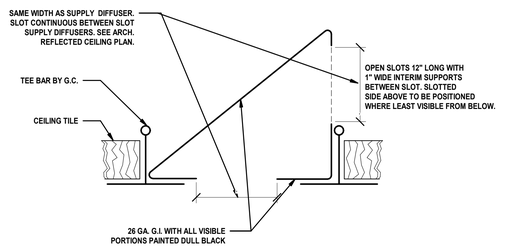
MECHANICAL DETAILS

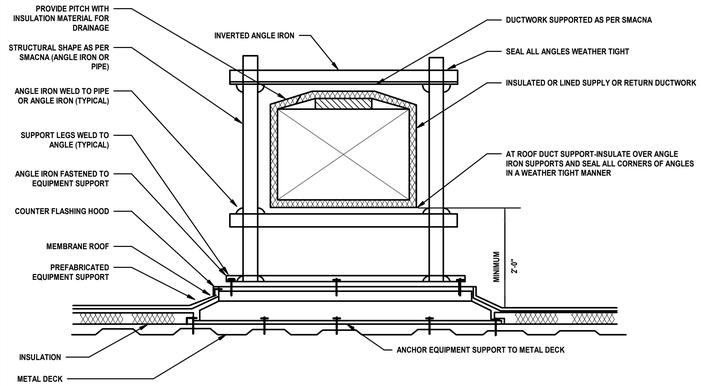
M7.3



GENERAL NOTE:

A. UNIT FURNISHED & INSTALLED BY MECHANICAL CONTRACTOR.

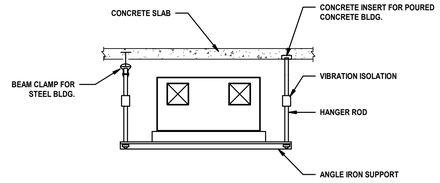
SLOT RETURN AIR BOOT DETAIL 06
N.T.S.



GENERAL NOTE:

A. PIPE SUPPORT ON ROOF SHALL BE SIMILAR. USE OF SYSTEMS SIMILAR OR EQUAL TO "RPS - PIPE MOUNTING PEDESTALS", PORTABLE PIPE HANGER SYSTEMS OR MIRO PILLOW BLOCK PIPESTANDS IS ACCEPTABLE.

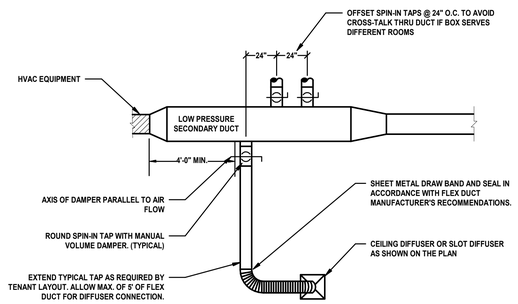
ROOF SUPPORT FOR DUCT/PIPE 05
N.T.S.



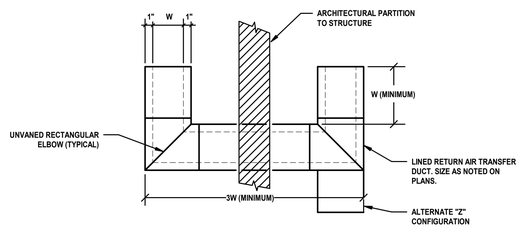
GENERAL NOTE:

A. METHOD OF HANGING, TYPE OR INSERT, BEAM CLAMP, ROD, ETC., MUST BE APPROVED BY STRUCTURAL ENGINEER.

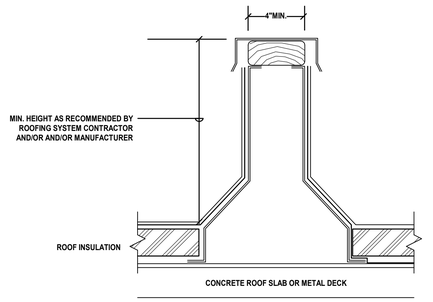
TYPICAL EQUIPMENT HANGING 04
N.T.S.



DIFFUSERS CONNECTION DETAIL 03
N.T.S.



RETURN AIR TRANSFER DUCT DETAIL 02
N.T.S.



GEBERAL NOTES:

A. REFER TO DIVISION 7 SPECIFICATIONS FOR FLASHING AND OTHER REQUIREMENTS. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS FOR APPROPRIATE ROOF CONSTRUCTION.

EQUIPMENT CURB 01
N.T.S.

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ELECTRICAL SYMBOLS

(1) 10/8/03

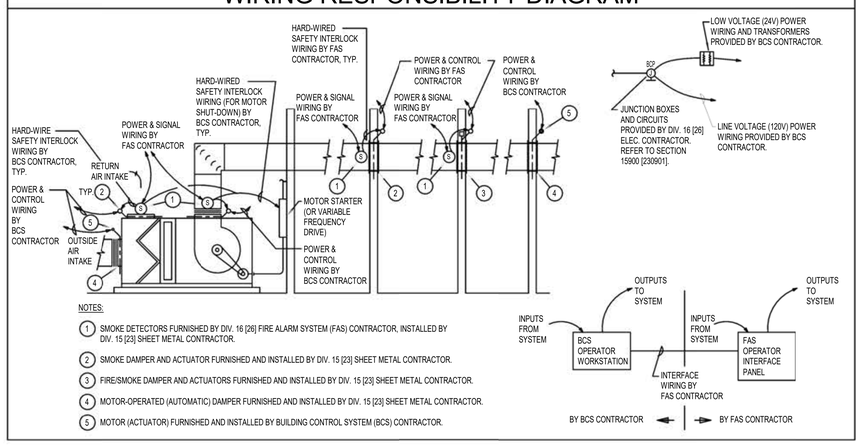
SYMBOL	DESCRIPTION
O_A O_A	RECESSED LIGHT FIXTURE (3)(4)
$\widehat{O}_A$ $\widehat{O}_A$	WALLWASHER LIGHT FIXTURE (3)(4)
O_A O_A	WALL MOUNTED LIGHT FIXTURE (3)(4)
A / A	FLUORESCENT STRIP LIGHT FIXTURE (CHAIN SUSPENDED OR SURFACE) (3)(4)
A / A	FLUORESCENT LIGHT FIXTURE (3)(4)
A / A	CEILING FLUORESCENT LIGHT FIXTURE (3)(4)
X3	EMERGENCY BATTERY PACK
X1 X2	EXIT SIGN (ARROWS AS INDICATED, SHADE INDICATES FACE)
S^1	SINGLE POLE SWITCH 20A (120/277V) (2)
S^3	SWITCH 20A (120/277V; 3: 3-WAY, 4: 4-WAY, K: KEY, DS: DOOR SWITCH, P: PILOT, TS: TIME SWITCH)
	DIMMER SWITCH (SIZE AS REQUIRED) (2)
S^M S^R	OCCUPANCY SENSOR (LETTER INDICATES SENSOR TYPE - SEE SCHEDULE)
PC	CEILING MOUNTED PHOTOCELL
	WALL MOUNTED DATA, TELEPHONE, OR COMBO TELE/DATA OUTLET (5)
	FLOOR MOUNTED DATA, TELEPHONE, OR COMBO TELE/DATA OUTLET (5)
'TTB'	WALL MTD TELEPHONE TERMINAL BACKBOARD
C	WALL CLOCK OUTLET
TV	WALL TELEVISION OUTLET (5)
TV	FLOOR OR CEILING TELEVISION OUTLET (5)
	PUSH BUTTON
P	START-STOP PUSH BUTTON (MOMENTARY CONTACT U.N.O., 'P' DENOTES PILOT LIGHT)
	CONDUIT IN OR UNDER FLOOR/GRADE
	CONDUIT EXPOSED
	CONDUCTOR HOME RUN - ( ) HOT, ( ) NUETRAL, EQUIPMENT GROUND, & ( ) ISOLATED GROUND
	EQUIPMENT CONNECTION
	CONDUIT IN CEILING OR WALL
##X XX	## DENOTES BOX HP, X DENOTES MOTOR Ø XX DENOTES FAN POWERED BOX KW

SYMBOL	DESCRIPTION
	WALL MTD 20A - 125V/2P/3W GROUNDING SIMPLEX RECEPTACLE (NEMA 5-20R)
	WALL MTD 20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R)
	WALL MTD 20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE, NON-STD HEIGHT (NEMA 5-20R)
	WALL MTD 20A - 125V/2P/3W GROUNDING QUAD RECEPTACLE (NEMA 5-20R)
	SPLIT RECEPTACLE. TOP OUTLET WIRED HOT. BOTTOM OUTLET SWITCHED. (NEMA 5-20R)
	WALL OR CEILING SPECIAL PURPOSE OUTLET (NEMA CONFIG. AS NOTED)
	FLUSH FLOOR 20A - 125V/2P/3W GROUNDING SIMPLEX RECEPTACLE (NEMA 5-20R)
	FLUSH FLOOR 20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R)
	FLUSH FLOOR 20A - 125V/2P/3W GROUNDING QUAD RECEPTACLE (NEMA 5-20R)
	FLUSH CEILING 20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R)
	LEGRAND PLUGMOLD #X-20-GB-X-12-TRUSBA, OR EQUAL (ALTERNATE REC/USB EVERY 12").
PX1	POKE-THRU, 4" CORE. WIREMOLD RC4 SERIES W/ COM75 ADAPTER, W/ 2-DUPLEX RECS & DATA/COMM PORTS, OR EQUAL (5)
PX2	POKE-THRU, 4" CORE. WIREMOLD 4FFATC SERIES FOR POWER AND DATA FURNITURE FEED, OR EQUAL (10 MAX CAT6 CABLES). (5)
PX3	POKE-THRU, 3" CORE. WIREMOLD RC7AFF SERIES W/ COM50 ADAPTOR OR EQUAL. FOR POWER AND DATA FURN. FEED (5)
PX4	POKE-THRU, 3" CORE. WIREMOLD RC9AM2 SERIES FOR LARGE CAPACITY DATA FURNITURE FEED, OR EQUAL (MAXIMUM OF 20 CAT6 CABLES). (5)
PX5	POKE-THRU, 6" CORE. WIREMOLD 6ATCFF SERIES FOR POWER AND DATA FURNITURE FEED, OR EQUAL, (MAXIMUM OF 20 CAT6 CABLES). (5)
PX6	POKE-THRU, 6" CORE. WIREMOLD 6ATCPAV SERIES, A/V STYLE POKE-THRU (OR EQUAL) (5)
FB1	ARLINGTON RECESSED FLOOR BOX #FLBC4500 (1-GANG) W/ 1-DUPLEX REC & FLBC4560DXX METALLIC COVER, OR EQUAL.
FB2	FSR RECESSED FLOOR BOX #FL-200-3 (2-GANGS) W/1-DUPLEX REC, OR EQUAL. COVER TO BE FLUSH W/ FLOOR, COORD. DEPTH OF FLANGE W/ FLOORING MATERIAL. (5)
FB3	FSR RECESSED FLOOR BOX #FL-200-3 (2-GANGS) W/2-DUPLEX RECS, OR EQUAL. COVER TO BE FLUSH W/ FLOOR, COORD. DEPTH OF FLANGE W/ FLOORING MATERIAL.
FB4	WIREMOLD 880S SERIES FLUSH FLOOR BOX (2-GANGS) W/ 1-DUPLEX REC & LV OR 2-DUPLEX RECS, OR EQUAL. (5)
FB5	WIREMOLD 880S SERIES FLUSH FLOOR BOX, FOR FURNITURE FEED, OR EQUAL. (5)
FB6	WIREMOLD 880S SERIES FLUSH FLOOR BOX (3-GANGS) W/ 2-DUPLEX RECS & LV, OR EQUAL (5)
FB7	FSR RECESSED FLOOR BOX #FL-500P-3-B (4-GANGS) W/2-DUPLEX RECS, OR EQUAL. COVER TO BE FLUSH W/ FLOOR, COORD. DEPTH OF FLANGE W/ FLOORING MATERIAL. (5)
FB8	FSR RECESSED FLOOR BOX #FL-600P-4-B (11-GANGS) W/2-DUPLEX RECS & 1-L21-30R, OR EQUAL. COVER TO BE FLUSH W/ FLOOR, COORD. DEPTH OF FLANGE W/ FLOORING MATERIAL. (5)
FB9	WIREMOLD CCFB SERIES FLUSH FLOOR BOX, W/ 100A FEED & 2-DED. DUPLEX, 1-L21-30R & 1-60A-3Ø,4W REC, OR EQUAL. (5)
FB10	WIREMOLD OUTDOOR GROUND BOX #XB814 SERIES - REF. DWGS FOR REQUIREMENTS. (5)

SYMBOL	DESCRIPTION MOUNTING
	PANELBOARD 208Y/120V,3Ø,4W (REFERENCE PANEL SCHEDULES)
	PANELBOARD 480Y/277V,3Ø,4W (REFERENCE PANEL SCHEDULES)
	DISTRIBUTION PANEL (REFERENCE PANEL SCHEDULES)
	DRY TYPE TRANSFORMER
	WIREWAY
	JUNCTION BOX
60/40	NON-FUSED DISCONNECT SWITCH U.N.O. (E.G. 60/40 INDIC. 60A SWITCH/40A FUSES)
	MOTOR STARTER
	COMBINATION MOTOR STARTER/ DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
P M	MANUAL MOTOR SWITCH ("P" INDICATES PILOT LIGHT)
	MOTOR
T	LOW-VOLTAGE TRANSFORMER
VFD	VARIABLE FREQUENCY DRIVE
CO P	CEILING FIRE ALARM CARBON MONOXIDE DETECTOR (P INDICATES 120VAC)
CO S	CEILING FIRE ALARM COMBO CARBON MONOXIDE AND SMOKE DETECTOR
S P	CEILING FIRE ALARM SMOKE DETECTOR (P INDICATES 120VAC)
H	CEILING FIRE ALARM HEAT DETECTORS
F F	WALL OR SEMI FLUSH FIRE ALARM MANUAL PULL STATION
FL	WALL FIRE ALARM HORN/STROBE (SPEAKER/ STROBE IF VOICE SPECIFIED - REF. 283163)
L F	CEILING FIRE ALARM HORN/STROBE (SPEAKER STROBE IF VOICE SPECIFIED - REF. 283163)
C	WALL OR CEILING FIRE ALARM STROBE ("C" DENOTES CEILING)
	WALL FIRE ALARM HORN (SPEAKER WHEN VOICE SPECIFIED - REF. SPEC SECTION 283163)
F	CEILING FIRE ALARM HORN (SPEAKER WHEN VOICE SPECIFIED - REF. SPEC 283163)
PS TS FS	(PS) PRESSURE, (TS) TAMPER, OR (FS) FLOW SWITCH (REF. PLUMBING DRAWINGS)
DH DH	WALL OR CEILING FIRE DOOR HOLDER
F	FIRE FIGHTER'S PHONE JACK

(1) ALL ELECTRICAL SYMBOLS NOT NECESSARILY USED.
(2) (a,b,c,..) INDICATES SWITCHING SCHEME TO RELATED FIXTURES.
(3) LETTER INDICATED FIXTURE TYPE - REFERENCE LIGHTING FIXTURE SCHEDULE.
(4) CROSS-HATCHING DENOTES EMERGENCY FIXTURE.
(5) COORDINATE EMPTY CONDUIT AND TEL/DATA/AV OUTLETS WITH LOW VOLTAGE CONSULTANT.

DAMPER & SMOKE DETECTOR FURNISHING, INSTALLING & WIRING RESPONSIBILITY DIAGRAM



NOTES:
(1) SMOKE DETECTORS FURNISHED BY DIV. 16 [26] FIRE ALARM SYSTEM (FAS) CONTRACTOR, INSTALLED BY DIV. 15 [23] SHEET METAL CONTRACTOR.
(2) SMOKE DAMPER AND ACTUATOR FURNISHED AND INSTALLED BY DIV. 15 [23] SHEET METAL CONTRACTOR.
(3) FIRE/SMOKE DAMPER AND ACTUATORS FURNISHED AND INSTALLED BY DIV. 15 [23] SHEET METAL CONTRACTOR.
(4) MOTOR-OPERATED (AUTOMATIC) DAMPER FURNISHED AND INSTALLED BY DIV. 15 [23] SHEET METAL CONTRACTOR.
(5) MOTOR (ACTUATOR) FURNISHED AND INSTALLED BY BUILDING CONTROL SYSTEM (BCS) CONTRACTOR.

GENERAL ELECTRICAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS.

2. IF APPLICABLE, VERIFY EXISTING FIELD CONDITIONS PRIOR TO BIDDING AND BEFORE BEGINNING WORK.

3. REFER TO ARCH. DRAWINGS AND RCPS FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES & ELECTRICAL DEVICES.

4. COORDINATE WITH THE WORK OF OTHER TRADES. VERIFY QUANTITY, LOCATIONS, AND ELECTRICAL CHARACTERISTICS OF EQUIPMENT PRIOR TO ROUGH-IN.

5. ALL BRANCH CIRCUITS WITHOUT CONDUCTOR AND CONDUIT INDICATIONS SHALL BE ROUTED TO A 1P-20A CIRCUIT BREAKER W/ A MINIMUM OF 2#12,1#12G,3/4"C. REFER TO SPECIFICATION SECTION 260510 FOR VOLTAGE DROP CONSIDERATIONS.

6. BCP CIRCUIT(S) ARE TO BE PROVIDED WHERE INDICATED IN SPECIFICATION SECTIONS 230901 AND 260501. IF BCP IS NOT INDICATED ON THE DRAWINGS, PROVIDE ALLOWANCE FOR BCP CIRCUITS PER SPECIFICATION SECTIONS 230901 AND 260501.

7. ALL CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS UNLESS NOTED OTHERWISE. WHERE NEUTRALS ARE INDICATED TO BE SHARED, MULTIWIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH 2P OR 3P BREAKERS AS REQUIRED PER NEC 210.4.

8. ELECTRICAL EQUIPMENT (SWITCHGEAR, DISTRIBUTION, PANELS, TRANSFORMERS, ETC) IS SHOWN TO SCALE ON THE FLOOR PLANS.

9. SWITCHBOARDS SHOWN ON THE PLANS WITH BACKS AGAINST WALL SHALL BE FRONT ACCESSIBLE ONLY. EQUIPMENT REQUIRING REAR ACCESS WILL NOT BE ACCEPTABLE.

10. IT SHALL BE THE RESPONSIBILITY OF THE EC TO PROVIDE EQUIPMENT THAT WILL FIT IN THE SPACES ALLOWED BY THE FLOOR PLANS AND COMPLY WITH ALL APPLICABLE CODE REQUIRED CLEARANCES. IF THE EC PROVIDEDS EQUIPMENT THAT DOES NOT FIT IN THE SPACES INDICATED OR THAT WILL NOT LEAVE THE REQUIRED CODE CLEARANCES, OR EQUIPMENT REQUIRING CHANGES IN THE DESIGN INDICATED ON THESE DRAWINGS, HE SHALL PAY ALL COSTS INVOLVED TO CORRECT THE INSTALLATION.

11. EC TO LABEL ALL DEVICES (RECEPTS, SWITCHES, PANELS, DISCONNECTS, ETC.) WITH CIRCUIT NUMBER AND PANEL BOARD DESIGNATION. RECEPTS, SWITCHES & SIMILAR DEVICES TO HAVE PRE-PRINTED, SELF ADHESIVE LABELS. PANEL BOARDS, DISCONNECTS, AND SIMILAR DEVICES TO HAVE ENGRAVED, SELF-ADHESIVE, LAMINATED ACRYLIC LABEL (BLACK W/ WHITE LETTERING).

12. ALL STRAIGHT BLADE RECEPTACLES ORIENTED IN THE VERTICAL POSITION SHALL BE INSTALLED SUCH THAT THE GROUND PIN IS UP. ALL STAIGHT BLADE RECEPTACLES ORIENTED IN THE HORIZONTAL POSITION SHALL BE INSTALLED SUCH THAT THE NEUTRAL BLADE IS UP.

GENERAL FIRE ALARM NOTES

1. THE F/A DEVICES & NOTES SHOWN ON THESE DRAWINGS ARE PROVIDED TO INDICATE SYSTEM INTENT ONLY. THE F/A CONTRACTOR MUST BE LICENSED IN THE STATE AND SHALL BE RESPONSIBLE FOR THE REQUIRED SYSTEM DESIGN, INCLUDING PROVIDING ALL REQUIRED DEVICES AND SYSTEM COMPONENTS NECESSARY FOR A COMPLETE, CODE COMPLIANT F/A SYSTEM. ANY DEVICES OR SYSTEM COMPONENTS REQUIRED TO MEET ALL APPLICABLE CODES NOTE SHOWN ON THESE DRAWINGS SHALL BE DEEMED IMPLICITY REQUIRED OF THE F/A CONTRACTOR TO PROVIDE. THE CONTRACT REQUIRED SUBMITTALS SHALL ONLY BE SUBMITTED FOR ENGINEERING REVIEW AFTER WRITTEN APPROVAL OF THE F/A SYSTEM OF THE F/A SYSTEM FROM THE LOCAL AHJ HAS BEEN RECEIVED.

2. REFERENCE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND QUANTITIES OF ALL SUPPLY AND RETURN DUCT DETECTORS.

3. REFERENCE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND QUANTITIES OF ALL SMOKE DETECTORS ASSOCIATED WITH SMOKE AND FIRE/SMOKE DAMPERS.

4. IT IS THE RESPONSIBILITY OF THE F/A SYSTEMS CONTRACTOR TO INTERLOCK SMOKE DETECTORS AND SMOKE OR FIRE SMOKE DAMPER ACTUATORS AS INDICATED IN THE WIRING DIAGRAM THIS SHEET.

5. IT IS THE RESPONSIBILITY OF THE F/A SYSTEMS CONTRACTOR TO PROVIDE ALL POWER & SIGNAL WIRING ASSOCIATED WITH DUCT, SMOKE DAMPER, & FIRE/SMOKE DAMPER DETECTORS.

6. IT IS THE RESPONSIBILITY OF THE F/A SYSTEMS CONTRACTOR TO PROVIDE ALL POWER & SIGNAL WIRING ASSOCIATED WITH DUCT, SMOKE DAMPER, & FIRE/SMOKE DAMPER ACTUATORS AS INDICATED IN THE WIRING DIAGRAM THIS SHEET.

7. SEE DAMPER & SMOKE DETECTOR FURNISHING, INSTALLING & WIRING RESPONSIBILITY DIAGRAM THIS SHEET FOR ADDITIONAL INFORMATION.

8. F/A CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF SMOKE DETECTORS IN AREAS WITHOUT A CEILING. COORDINATE WITH ARCHITECTURAL & STRUCTURAL DRAWINGS.

9. F/A CONTRACTOR SHALL CLEARLY LABEL AND PAINT RED THE CIRCUIT BREAKER WHICH PROVIDES POWER TO THE F/A SYSTEM.

10. ALL F/A DEVICES REQUIRING POWER (ACTUATORS, HEARING IMPAIRED DEVICES, ETC) TO BE CIRCUITED TO A BCP CIRCUIT. FIELD VERIFY IF ADDITIONAL CIRCUITS ARE NEEDED AND PROVIDED AS REQUIRED PRIOR TO INSTALLATION.

11. F/A CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED CANDELA SETTINGS TO MEET CODE AND FOR AHJ APPROVAL.

12. F/A CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL AND/OR INTERIOR REFLECTED CEILING PLANS.

13. AREA OF RESCUE SYSTEM TO BE CONNECTED TO EMERGENCY POWER PER IBC 403.4.8.

14. SHOP DRAWINGS FOR THE AREA OF RESCUE SYSTEM TO BE SUBMITTED TO FIRE DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION.

15. IN EMPLOYEE WORK AREAS WITH AUDIBLE ALARM COVERAGE, THE FIRE ALARM SYSTEM SHALL BE DESIGNED SO THAT VISIBLE ALARMS COMPLYING WITH 702 CAN BE INTEGRATED INTO THE FIRE ALARM SYSTEM.

16. FIRE ALARM CONTRACTOR TO PROVIDE RADIO COVERAGE AS REQUIRED AFTER CONSTRUCTION TO COMPLY WITH SECTION IFC 510.1.

17. ACCESS CONTROL SYSTEMS UTILIZING MAG LOCKS, DELAYED EGRESS SYSTEMS, OR ELECTRIC STRIKES IN DOORS THAT ARE REQUIRED TO BE FIRE RATED WILL REQUIRE SHOP DRAWINGS SUBMITTED TO AND APPROVED BY FIRE DEPARTMENT PRIOR TO INSTALLATION AND INSPECTION.

CONDUIT/WIRING/CABLING SYSTEM FIRE RATINGS

1. THE FOLLOWING CONDUIT/WIRING/CABLING SYSTEMS SHALL BE PROTECTED BY CONSTRUCTION HAVING A FIRE-RESISTIVE RATING OF NOT LESS THAN 2 HOURS, OR SHALL BE A LISTED ELECTRICAL CIRCUIT PROTECTIVE SYSTEM HAVING A FIRE-RESISTIVE RATING OF NOT LESS THAN 2 HOURS:

   A. FEEDER CIRCUITS AND GENERATOR CONTROL WIRING FOR EMERGENCY SYSTEMS AS DEFINED BY NEC 700.2.

   B. VENTILATION EQUIPMENT POWER AND CONTROL WIRING ASSOCIATED WITH THE SMOKE CONTROL SYSTEM (AND ISOLATED FROM THE REMAINDER OF THE BUILDING).

   C. GENERATOR FEEDER AND CONTROL WIRING ASSOCIATED WITH THE FIRE PUMP.

   D. WIRES OR CABLES THAT ARE LOCATED OUTSIDE THE ELEVATOR HOISTWAY AND MACHINE ROOM THAT PROVIDE NORMAL OR STANDBY POWER, CONTROL SIGNALS, COMMUNICATION WITH THE CAR, LIGHTING, HVAC AND FIRE-DETECTION SYSTEMS TO FIRE SERVICE ACCESS OR OCCUPANT EVACUATION ELEVATORS.

   E. INITIATING DEVICE, NOTIFICATION APPLIANCE AND SIGNALING LINE CIRCUITS WHERE REQUIRED TO MEET THE SURVIVABILITY REQUIREMENTS OUTLINED IN NFPA 72. (MAIN HORIZONTAL RUNS AND VERTICAL RISERS TO SECONDARY PANEL LOCATIONS, ETC.)

   F. FIRE DEPARTMENT TWO-WAY, VOICE EVACUATION, AREA OF RESCUE AND/OR TWO-WAY EMERGENCY COMMUNICATIONS SYSTEMS.

2. ELECTRICAL CONTRACTOR TO COORDINATE THE ROUTING OF THESE SYSTEMS WITH THE GENERAL CONTRACTOR TO ACHIEVE THESE RATINGS. THIS MAY BE ACCOMPLISHED BY ANY OF THE FOLLOWING OR COMBINATION OF THE FOLLOWING:

   A. ROUTING CONDUITS WITHIN SLABS WITH A MINIMUM OF 2" OF COVER (COORD. W/ STRUCT)

   B. ROUTING WITHIN 2-HOUR RATED ROOMS, SHAFTS OR ENCLOSURES.

   C. PROVIDING 2-HOUR CIRCUIT INTEGRITY CABLE OR A 2-HOUR UL LISTED ELECTRICAL CIRCUIT PROTECTIVE SYSTEM.

ELECTRICAL ABBREVIATIONS

01/20/04

A	AMPERES
AC	ALTERNATING CURRENT
AF*	ABOVE FINISH (C: COUNTER, F: FLOOR, G: GRADE)
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
BCP	BUILDING CONTROL POWER (FOR FA/CONTROLS)
BF*	BELOW FINISHED (C: CEILING, F: FLOOR, G: GRADE)
BTC	BRANCH TO CONNECTION AND CONNECT EQUIP.
BTF	BRANCH TO FIXTURE, FURNISH & INSTALL RECEPT.
C	CONDUIT ("E.C." IS EMPTY CONDUIT)
CF	CEILING FAN
CM	COFFEE MAKER
CT	COOKTOP
D	DEDICATED CIRCUIT
DD	DIGITAL DISPLAY
DFA	DOWN FROM ABOVE
DP	DISPOSER
DW	DISHWASHER
DY	DRYER
EC	ELECTRICAL CONTRACTOR
ECP	ELEVATOR CONTROL PANEL
EMT	ELETRICAL METALLIC TUBING
EG	EQUIPMENT GROUND
EO	ELECTRICALLY OPERATED
ER	EXISTING TO BE REMOVED
ETP	ELECTRONIC TRAP PRIMER
EWC	ELECTRIC WATER COOLER
EX	EXISTING (TO REMAIN)
EXR	EXISTING TO BE RELOCATED
F	FUSE(D)
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUCIATOR PANEL
FABP	FIRE ALARM BOOSTER PANEL
FACP	FIRE ALARM CONTROL PANEL
FLEX	FLEXIBLE CONDUIT
G	PROTECTIVE GUARD (APPLIES TO LIGHTS & F/A)
G.	GROUND
GAP	GENERATOR ANNUCIATOR PANEL
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFIP	GROUND FAULT CIRCUIT INTERRUPTER PROTECTED
GFP	GROUND FAULT PROTECTION
H	HORIZONTAL MOUNT (RECEPTACLE)
HD	VENTILATION HOOD
HOA	HAND-OFF-AUTOMATIC SWITCH
HP	HORSEPOWER
HT	HEAT TRACE POWER (PROVIDE GFI BREAKER)
HZ	HERTZ
IG	ISOLATED GROUND
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWH	KILOWATT HOURS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MW	MICROWAVE (COORD MTG HT W/ ARCHITECT)
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NOT FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OL	OVERLOAD
P	POLE
PDU	POWER DISTRIBUTION UNIT
P/A	PRE-ACTION
PH OR Ø	PHASE
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RF	REFRIGERATOR
RG	RANGE
SPD	SURGE PROTECTIVE DEVICE
S/N	SOLID NUETRAL
SU	STUB UP ABOVE FINISHED FLOOR
T	TAMPERPROOF RECEPTACLE
TBFL	TO BE FIELD LOCATED
TC	TIMECLOCK
TTB	TELEPHONE TERMINAL BOARD
UC	UNDERCOUNTER REFRIGERATOR (OR ICE MACHINE)
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT-AMPERES
VD	VENDING MACHINE (24"AFF)
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WA	WASHER
WA/DY	STACKED WASHER/DRYER
WC	WINE CABINET
WD	WARMING DRAWER
WH	WALL HUNG TELEPHONE (48"AFF)
WO	WALL OVEN
WP/WR	WEATHERPROOF/WEATHER RESISTANT

GROUNDING SYSTEM REQUIREMENTS

1. REFER TO SPECIFICATIONS SECTION 26 05 26 FOR ADDITIONAL GROUNDING REQUIREMENTS NOT SPECIFICALLY INDICATED IN THE DRAWINGS.

2. EACH ELECTRICAL ROOM AND TELECOMM/IDF ROOM IS TO BE PROVIDED WITH AN EXTERNAL (NOT PART OF PANEL BOARD) GROUNDING BAR. ALL GROUNDING WITHIN THE ROOM SHALL BE TIED THROUGH THIS EXTERNAL GROUND BAR AND CONNECTED BACK TO BUILDING MAIN GROUNDING BAR.

3. ALL TELECOMM GROUNDING SHALL BE INDEPENDENT OF THE ELECTRICAL ROOM GROUNDING SYSTEMS. TELECOMM GROUNDING SHALL ONLY CONNECT TO THE BUILDING GROUND AT THE MAIN GROUNDING BAR LOCATED AT THE SERVICE ENTRY LOCATION.

4. UNLESS APPROVAL IS GRANTED PRIOR TO BID, THE FOLLOWING GROUNDING SHALL BE INCLUDED:
   a. GROUND RING CIRCLING THE BUILDING/STRUCTURE.
   b. UFER/CONCRETE ENCASED ELECTRODE AT LEAST 20' LONG
   c. INDEPENDENT GROUNDING RISERS FOR TELECOMM/ELECT GROUNDING SYSTEMS.

ELECTRICAL SHEET LIST

Sheet #	Sheet Name
E0.0	NOTES, SYMBOLS, LEGEND & ABBREVIATIONS
E5.0	FEEDER SCHEDULES
E5.1	ELECTRICAL RISER
E5.2	ELECTRICAL ONE-LINE DIAGRAMS
E5.3	ELECTRICAL ONE-LINE DIAGRAMS
E5.4	ELECTRICAL ONE-LINE DIAGRAMS
E6.1	LIGHTING SCHEDULES
E7.1	ELECTRICAL DETAILS
E7.2	ELECTRICAL DETAILS
TOTAL: 9	

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INTERIM REVIEW ONLY

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NOT FOR CONSTRUCTION

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SCHEMATIC DESIGN
09-17-2025
REVISIONS

13-24114-00

NOTES, SYMBOLS, LEGEND & ABBREVIATIONS

E0.0

TRANSFORMER SCHEDULE

THHN COPPER CONDUCTORS W/ EG CONDUCTOR

XFMR	STD.	K13	PRIMARY			480V,3Ø PRIMARY				SECOND.	208Y/120V,3Ø,4W,EG SECONDARY					208Y/120V,3Ø,200%N,EG SECONDARY					208Y/120V,3Ø,200%N,EG,IG SECONDARY			
KVA	CODE	CODE	GEC	OCPD	CODE	SETS	CONDUCTORS	RACEWAY	OCPD	CODE	SETS	CONDUCTORS	RACEWAY	CODE	SETS	CONDUCTORS	RACEWAY	CODE	SETS	CONDUCTORS	RACEWAY
15	T15	K15	1#8	30A	P15	--	3#10,1#10G	3/4"	50A	S15	--	4#6,1#8G	1"	KS15	--	3#6,1#2(N),1#8EG	1"	KIS15	--	3#6,1#2(N),1#8EG,1#8IG	1-1/4"
30	T30	K30	1#8	50A	P30	--	3#8,1#10G	3/4"	100A	S30	--	4#2,1#8G	1-1/4"	KS30	--	3#2,1#4/0(N),1#8EG	1-1/2"	KIS30	--	3#2,1#4/0(N),1#8EG,1#8IG	1-1/2"
45	T45	K45	1#4	70A	P45	--	3#4,1#8G	1"	150A	S45	--	4#2/0,1#4G	2"	KS45	--	5#2/0,1#4EG	2"	KIS45	--	5#2/0,1#4EG,1#4IG	2"
75	T75	K75	1#2	110A	P75	--	3#2,1#6G	1-1/4"	250A	S75	--	4#300KCM,1#2G	3"	KS75	--	5#300KCM,1#2EG	3"	KIS75	--	5#300KCM,1#2EG,1#2IG	3"
112.5	T112	K112	1#1/0	175A	P112	--	3#2/0,1#6G	2"	400A	S112	2	4#4/0,1#1/0G	2-1/2"	KS112	2	5#4/0,1#1/0EG	3"	KIS112	2	5#4/0,1#1/0EG,1#1/0IG	3"
150	T150	K150	1#2/0	225A	P150	--	3#4/0,1#4G	2"	600A	S150	2	4#400KCM,1#2/0G	3"	KS150	2	5#400KCM,1#2/0EG	3-1/2"	KIS150	2	5#400KCM,1#2/0EG,1#2/0IG	3-1/2"
225	T225	K225	1#2/0	350A	P225	--	3#500KCM,1#3G	3"	800A	S225	3	4#350KCM,1#2/0G	3"	KS225	3	5#350KCM,1#2/0EG	3-1/2"	KIS225	3	5#350KCM,1#2/0EG,1#2/0IG	3-1/2"
300	T300	K300	1#3/0	450A	P300	2	3#4/0,1#2G	2"	1200A	S300	4	4#400KCM,1#4/0G	3"	KS300	4	5#400KCM,1#4/0EG	3-1/2"	KIS300	4	5#400KCM,1#4/0EG,1#4/0IG	3-1/2"
500	T500	K500	1#3/0	800A	P500	3	3#300KCM,1#1/0G	2-1/2"	1600A	S500	5	4#500KCM,1#350KCMG	3-1/2"	KS500	5	5#500KCM,1#350KCM EG	4"	KIS500	5	5#500KCM,1#350KCMEG,1#350KCM IG	5"

NOTES:

1. ALL PRIMARY CONDUCTORS AMPACITY BASED ON THE NEC TABLE 310.16 FOR CONDUCTORS W/ 75°C INSULATION.
2. ALL RACEWAY SIZES (EMT/RMC/PVC 40) BASED ON THE NEC TABLE 4(CHAPTER 9), 40% FILL COLUMN.
3. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT CONDUCTOR TERMINATION TEMPERATURE RATINGS (IE, 60°C OR 75°C). ADJUST CONDUCTOR AMPACITY AND CONDUIT SIZES ACCORDINGLY.
4. ALL SECONDARY CONDUCTORS IN THIS SCHEDULE TO BE THHN (90°C INSULATION) FOR DERATING PURPOSES. FEEDERS HAVE BEEN DERATED PER T310.15(C)(1).
5. ELECTRICAL CONTRACTOR TO FIELD VERIFY TRANSFORMER SIZES PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD.

FEEDER SCHEDULE (COPPER)

THHN/THWN COPPER CONDUCTORS W/ EG CONDUCTOR

3 CONDUCTORS & GROUND				AMPS	4 CONDUCTORS & GROUND			
CODE	SETS	CONDUCTORS	RACEWAY		RACEWAY	CONDUCTORS	SETS	CODE
1	-	3#12,1#12G.	3/4"	20	3/4"	4#12,1#12G.	-	31
2	-	3#10,1#10G.	3/4"	30	3/4"	4#10,1#10G.	-	32
3	-	3#8,1#10G.	3/4"	50	3/4"	4#8,1#10G.	-	33
4	-	3#6,1#10G.	3/4"	65	1"	4#6,1#10G.	-	34
5	-	3#4,1#8G.	1"	85	1-1/4"	4#4,1#8G.	-	35
6	-	3#3,1#8G.	1-1/4"	100	1-1/4"	4#3,1#8G.	-	36
7	-	3#2,1#6G.	1-1/4"	115	1-1/4"	4#2,1#6G.	-	37
8	-	3#1,1#6G.	1-1/2"	130	1-1/2"	4#1,1#6G.	-	38
9	-	3#1/0,1#6G.	1-1/2"	150	2"	4#1/0,1#6G.	-	39
10	-	3#2/0,1#6G.	2"	175	2"	4#2/0,1#6G.	-	40
11	-	3#3/0,1#6G.	2"	200	2"	4#3/0,1#6G.	-	41
12	-	3#4/0,1#4G.	2"	230	2-1/2"	4#4/0,1#4G.	-	42
13	-	3#250KCM,1#4G.	2-1/2"	255	3"	4#250KCM,1#4G.	-	43
14	-	3#300KCM,1#4G.	2-1/2"	285	3"	4#300KCM,1#4G.	-	44
15	-	3#350KCM,1#4G.	3"	310	3"	4#350KCM,1#4G.	-	45
16	-	3#400KCM,1#3G.	3"	335	3"	4#400KCM,1#3G.	-	46
17	-	3#500KCM,1#3G.	3"	380	3-1/2"	4#500KCM,1#3G.	-	47
18	2	3#3/0,1#3G.	2"	400	2"	4#3/0,1#3G.	2	48
19	2	3#4/0,1#2G.	2"	460	2-1/2"	4#4/0,1#2G.	2	49
20	2	3#250KCM,1#2G.	2-1/2"	510	3"	4#250KCM,1#2G.	2	50
21	2	3#350KCM,1#1G.	3"	620	3"	4#350KCM,1#1G.	2	51
22	2	3#500KCM,1#1/0G.	3"	760	3-1/2"	4#500KCM,1#1/0G.	2	52
23	3	3#300KCM,1#1/0G.	2-1/2"	855	3"	4#300KCM,1#1/0G.	3	53
24	3	3#400KCM,1#2/0G.	3"	1005	3"	4#400KCM,1#2/0G.	3	54
25	4	3#350KCM,1#3/0G.	3"	1240	3"	4#350KCM,1#3/0G.	4	55
26	5	3#400KCM,1#4/0G.	3"	1675	3"	4#400KCM,1#4/0G.	5	56
27	6	3#400KCM,1#250KCM G.	3"	2010	3"	4#400KCM,1#250KCM G.	6	57
28	7	3#500KCM,1#350KCM G.	3"	2660	3-1/2"	4#500KCM,1#350KCM G.	7	58
29	8	3#500KCM,1#400KCM G.	3"	3040	3-1/2"	4#500KCM,1#400KCM G.	8	59
30	10	3#600KCM,1#500KCM G.	4"	4200	4"	4#600KCM,1#500KCM G.	10	60

NOTES:

1. ALL PRIMARY CONDUCTORS AMPACITY BASED ON THE NEC TABLE 310.16 FOR CONDUCTORS W/ 75°C INSULATION.
2. ALL RACEWAY SIZES (EMT/RMC/PVC 40) BASED ON THE NEC TABLE 4(CHAPTER 9), 40% FILL COLUMN.
3. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT CONDUCTOR TERMINATION TEMPERATURE RATINGS (IE, 60°C OR 75°C). ADJUST CONDUCTOR AMPACITY AND CONDUIT SIZES ACCORDINGLY.
4. VERIFY MAXIMUM NO. OF SETS OF SERVICE ENTRANCE CONDUCTORS ALLOWED W/ UTILITY CO.
5. EQUIPMENT GROUNDING CONDUCTORS BASED ON T250.122. GROUND TO BE ADJUSTED PER T250.66 FOR SEPARATELY DERIVED SYSTEMS.

FEEDER SCHEDULE (ALUMINUM)

TYPE XHHW ALUMINUM CONDUCTORS WITH EQUIPMENT GROUND CONDUCTOR

3 CONDUCTORS & GROUND				AMPS	4 CONDUCTORS & GROUND			
CODE	SETS	CONDUCTORS	RACEWAY		RACEWAY	CONDUCTORS	SETS	CODE
AL0	-	3#1,1#6 G.	1 1/2"	100	2"	4#1,1#6 G.	-	AL00
AL1	-	3#1/0,1#4 G.	1-1/2"	120	2"	4#1/0,1#4 G.	-	AL21
AL2	-	3#2/0,1#4 G.	2"	135	2"	4#2/0,1#4 G.	-	AL22
AL3	-	3#3/0,1#4 G.	2"	155	2"	4#3/0,1#4 G.	-	AL23
AL4	-	3#4/0,1#4 G.	2"	180	2-1/2"	4#4/0,1#4 G.	-	AL24
AL5	-	3#250KCM,1#4 G.	2-1/2"	205	2-1/2"	4#250KCM,1#4 G.	-	AL25
AL6	-	3#300KCM,1#2 G.	2-1/2"	230	3"	4#300KCM,1#2 G.	-	AL26
AL7	-	3#350KCM,1#2 G.	3"	250	3"	4#350KCM,1#2 G.	-	AL27
AL8	-	3#500KCM,1#2 G.	3"	310	3-1/2"	4#500KCM,1#2 G.	-	AL28
AL9	-	3#700KCM,1#1 G.	3-1/2"	375	4"	4#700KCM,1#1 G.	-	AL29
AL10	2	3#250KCM,1#1 G.	2-1/2"	410	2-1/2"	4#250KCM,1#1 G.	2	AL30
AL11	2	3#350KCM,1#1/0 G.	3"	500	3"	4#350KCM,1#1/0 G.	2	AL31
AL12	2	3#500KCM,1#2/0 G.	3"	620	3-1/2"	4#500KCM,1#2/0 G.	2	AL32
AL13	3	3#400KCM,1#3/0 G.	3"	810	3"	4#400KCM,1#3/0 G.	3	AL33
AL14	4	3#350KCM,1#4/0 G.	3"	1000	3"	4#350KCM,1#4/0 G.	4	AL34
AL15	4	3#500KCM,1#250KCM G.	3"	1240	3-1/2"	4#500KCM,1#250KCM G.	4	AL35
AL16	6	3#400KCM,1#350KCM G.	3"	1620	3"	4#400KCM,1#350KCM G.	6	AL36
AL17	8	3#350KCM,1#400KCM G.	3"	2000	3"	4#350KCM,1#400KCM G.	8	AL37
AL18	10	3#350KCM,1#600KCM G.	3"	2500	3-1/2"	4#350KCM,1#600KCM G.	10	AL38
AL19	10	3#500KCM,1#600KCM G.	3-1/2"	3100	3-1/2"	4#500KCM,1#600KCM G.	10	AL39
AL20	10	3#900KCM,1#900KCM G.	4"	4250	5"	4#900KCM,1#900KCM G.	10	AL40

NOTES:

1. ALL PRIMARY CONDUCTORS AMPACITY BASED ON THE NEC TABLE 310-15(B)(16) FOR CONDUCTORS W/ 75°C INSULATION.
2. ALL RACEWAY SIZES (EMT/RMC/PVC 40) BASED ON THE NEC TABLE 4(CHAPTER 9), 40% FILL COLUMN.
3. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT CONDUCTOR TERMINATION TEMPERATURE RATINGS (IE, 60°C OR 75°C). ADJUST CONDUCTOR AMPACITY AND CONDUIT SIZES ACCORDINGLY.
4. VERIFY MAXIMUM NO. OF SETS OF SERVICE ENTRANCE CONDUCTORS ALLOWED W/ UTILITY CO.
5. EQUIPMENT GROUNDING CONDUCTORS BASED ON T250.122. GROUND TO BE ADJUSTED PER T250.66 FOR SEPARATELY DERIVED SYSTEMS.
6. ALUMINUM FEEDERS NOT TO BE USED ON TRANSFORMER SECONDARIES.

FEEDER SCHEDULE (200% NEUTRAL)

THHN COPPER CONDUCTORS W/ EG CONDUCTOR

3 CONDUCTORS, 200% NEUTRAL							AMPS	3 CONDUCTORS, 200% NEUTRAL, ISOLATED GROUND						
CODE	SETS	CONDUCTORS	NEUT.	E.G.	I.G.	RACEWAY		RACEWAY	CONDUCTORS	NEUT.	E.G.	I.G.	SETS	CODE
A1	-	3#6	#2	#10	-	1"	50	1"	3#6	#2	#10	#10	-	A2
B1	-	3#2	#4/0	#8	-	1-1/2"	100	1-1/2"	3#2	#4/0	#8	#8	-	B2
C1	-	3#2/0	2#2/0	#6	-	2"	150	2"	3#2/0	2#2/0	#6	#6	-	C2
D1	-	3#4/0	2#4/0	#6	-	2-1/2"	200	2-1/2"	3#4/0	2#4/0	#6	#6	-	D2
E1	-	3#250KCM	2#250KCM	#4	-	3"	225	3"	3#250KCM	2#250KCM	#4	#4	-	E2
F1	-	3#300KCM	2#300KCM	#4	-	3"	250	3"	3#300KCM	2#300KCM	#4	#4	-	F2
G1	2	3#4/0	2#4/0	#2	-	2-1/2"	400	2-1/2"	3#4/0	2#4/0	#2	#2	2	G2

NOTES:

1. ALL PRIMARY CONDUCTORS AMPACITY BASED ON THE NEC TABLE 310.16 FOR CONDUCTORS W/ 75°C INSULATION.
2. ALL RACEWAY SIZES (EMT/RMC/PVC 40) BASED ON THE NEC TABLE 4(CHAPTER 9), 40% FILL COLUMN.
3. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT CONDUCTOR TERMINATION TEMPERATURE RATINGS (IE, 60°C OR 75°C). ADJUST CONDUCTOR AMPACITY AND CONDUIT SIZES ACCORDINGLY.
4. ALL CONDUCTORS IN THIS SCHEDULE TO BE THHN (90 C INSULATION) FOR DERATING PURPOSES. FEEDERS HAVE BEEN DERATED PER T310.15(C)(1).
5. EQUIPMENT GROUNDING CONDUCTORS BASED ON T250.122. GROUND TO BE ADJUSTED PER T250.66 FOR SEPARATELY DERIVED SYSTEMS.

FEEDER SCHEDULE (MOTORS)

THHN/THWN COPPER CONDUCTORS W/ EG CONDUCTOR

208V-3Ø,3W + GROUND						
CODE	SETS	CONDUCTORS	RACEWAY	MAX. BRKR.	MAX. FUSE	HP
2M1	-	3#12,1#12G.	3/4"	20A	15A	< 2
2M3	-	3#12,1#12G.	3/4"	25A	15A	3
2M5	-	3#10,1#10G.	3/4"	40A	30A	5
2M7	-	3#8,1#10G.	3/4"	60A	40A	7.5
2M10	-	3#8,1#8G.	3/4"	70A	50A	10
2M15	-	3#6,1#6G.	3/4"	110A	80A	15
2M20	-	3#4,1#6G.	1"	150A	100A	20
2M25	-	3#3,1#6G.	1-1/4"	175A	125A	25
2M30	-	3#2,1#6G.	1-1/4"	200A	150A	30
480V-3Ø,3W + GROUND						
CODE	SETS	CONDUCTORS	RACEWAY	MAX. BRKR.	MAX. FUSE	HP
4M1	-	3#12,1#12G.	3/4"	20A	15A	< 5
4M7	-	3#12,1#12G.	3/4"	25A	20A	7.5
4M10	-	3#10,1#10G.	3/4"	35A	25A	10
4M15	-	3#10,1#10G.	3/4"	50A	35A	15
4M20	-	3#8,1#8G.	3/4"	60A	45A	20
4M25	-	3#8,1#8G.	3/4"	80A	60A	25
4M30	-	3#8,1#8G.	3/4"	100A	70A	30
4M40	-	3#6,1#6G.	3/4"	125A	90A	40
4M50	-	3#4,1#6G.	1"	150A	110A	50
4M60	-	3#3,1#6G.	1-1/4"	175A	125A	60
4M75	-	3#1,1#4G.	1-1/2"	225A	150A	75
4M100	-	3#2/0,1#4G.	2"	300A	200A	100
4M125	-	3#3/0,1#3G.	2"	350A	250A	125
4M150	-	3#4/0,1#2G.	2"	450A	300A	150
4M200	-	3#350KCM,1#1G.	3"	600A	400A	200
4M300	2	3#4/0,1#2/0G.	2"	900A	600A	300

NOTES:

1. ALL CONDUCTORS AMPACITY BASED ON THE NEC TABLE 310.16 FOR CONDUCTORS W/ 75°C INSULATION.
2. ALL RACEWAY SIZES (EMT/RMC/PVC 40) BASED ON THE NEC TABLE 4 (CHAPTER 9), 40% FILL COLUMN.
3. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT CONDUCTOR TERMINATION TEMPERATURE RATINGS (IE, 60°C OR 75°C). ADJUST CONDUCTOR AMPACITY AND CONDUIT SIZES ACCORDINGLY.
4. PHASE CONDUCTORS SIZED PER 430.22 BASED ON VALUES IN T430.250.
5. EQUIPMENT GROUNDING CONDUCTOR SIZED PER 250.122(D).
6. FOR FIRE PUMP FEEDERS FROM UTILITY, GROUNDING CONDUCTOR TO BE SIZED PER T250.66

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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD

220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09-17-2025
REVISIONS

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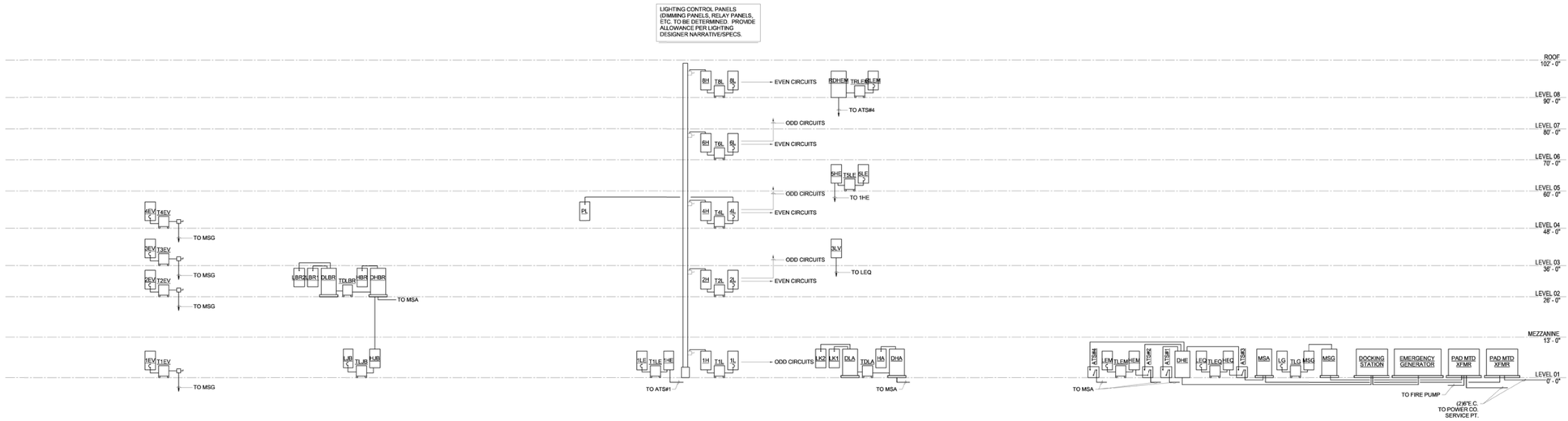
FEEDER SCHEDULES

E5.0



GENERAL NOTES:

1	REF. SHEET E0.0 FOR GENERAL NOTES, SYMBOLS...
2	REF. SHEET E7.1 & E7.2 FOR ELECTRICAL DETAILS.
3	INFORMATION SHOWN IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL BUS DUCT AND CONDUIT RISER OFFSETS NOT SHOWN.
4	PROVIDE SUPPORT FOR VERTICAL RACEWAY CONDUCTORS PER NEC 310.19.
5	ALL BUSWAY TAKE-OFFS TO BE SWITCH & FUSE (NO ENCLOSED CIRCUIT BREAKERS).

HEX KEYED NOTES:

(NOT ALL NOTES APPLY)

1	FIRE PUMP FEEDER(S) TO BE ENCASED IN CONCRETE.
2	(4)4"E.C. TO NEAREST TELECOM MANHOLE - COORD. W/ CIVIL
3	(4)4"E.C. THRU GARAGE LEVELS.
4	EMERGENCY SYSTEM FEEDERS TO BE ENCASED IN CONCRETE.

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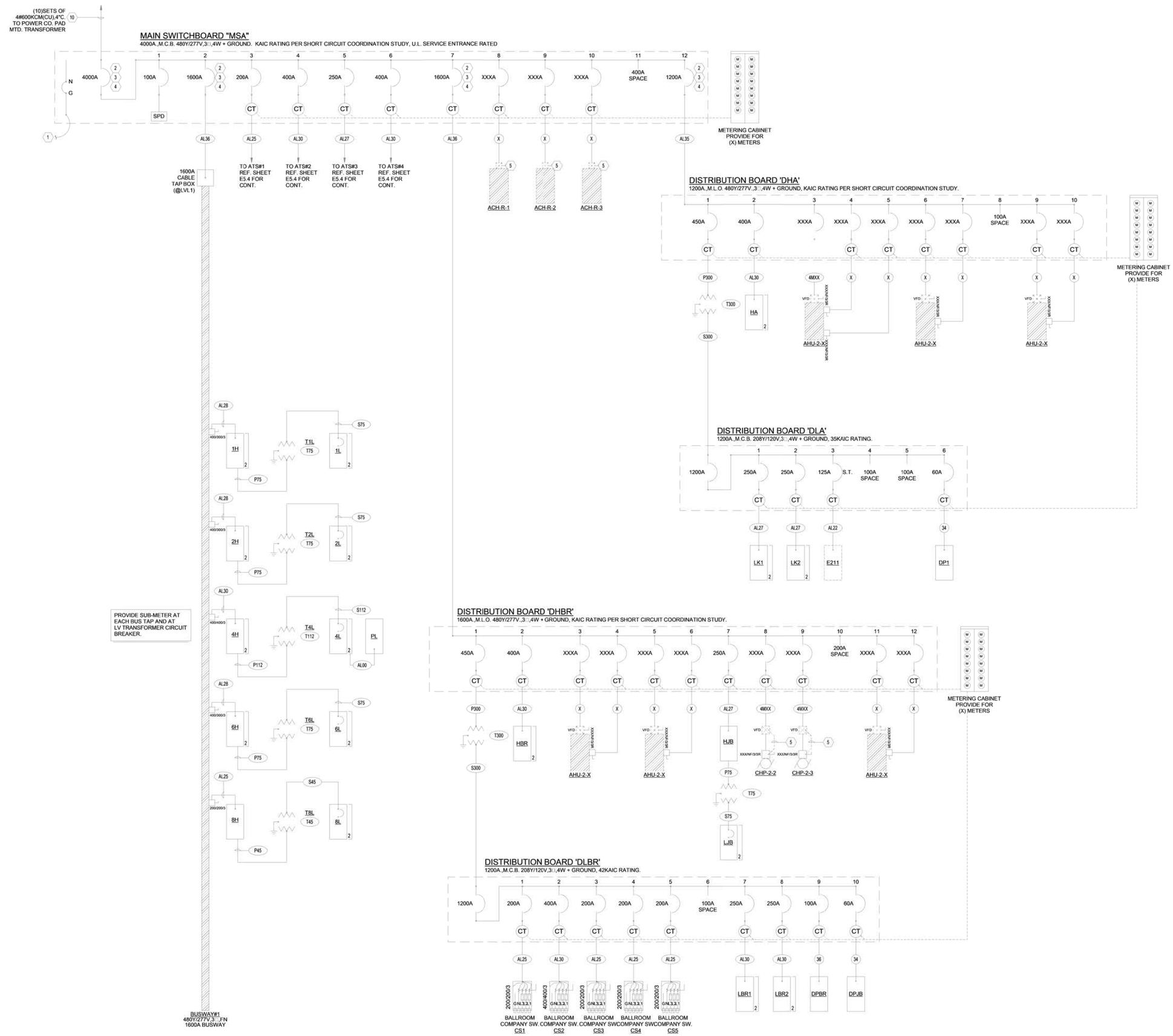
ELECTRICAL RISER

E5.1



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2	REF. SHEET E7.1 AND E7.2 FOR ELECTRICAL DETAILS.
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4	ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED W/ 75 DEGREE C LUGS. E.C. TO VERIFY ALL CONDUCTOR TERMINATION RATINGS AND ADJUST CONDUCTOR AND CONDUIT SIZES ACCORDINGLY.
5	ALL DISCONNECTS SHALL BE TYPE NEMA 1 ENCLOSURES UNLESS NOTED OTHERWISE.
6	E.C. SHALL INSTALL A PLAQUE INDICATING LOCATIONS OF OTHER SERVICES PER NEC 230.2(E) AND 700.7(A).
7	E.C. TO VERIFY THE MAXIMUM NUMBER OF SERVICE ENTRANCE CONDUITS ALLOWED BY LOCAL UTILITY COMPANY AND ADJUST INCOMING FEEDER ACCORDINGLY.
8	PER NEC 695.4(B)(3)(a)(2) DISCONNECTING MEANS THAT ARE UNIQUE TO FIRE PUMP LOADS SHALL HAVE PROVISIONS TO BE LOCKABLE IN THE CLOSED POSITION.
9	ALL CONDUCTORS ARE COPPER UNLESS NOTED...
10	PER NEC 110.4(D), E.C. TO PROVIDE A LETTER TO THE ELECTRICAL INSPECTOR THAT ALL ELECTRICAL EQUIPMENT HAS BEEN TORQUED PROPERLY ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
11	EMERGENCY SYSTEM OCPD'S SHALL BE SELECTIVELY COORDINATED W/ ALL SUPPLY SIDE OCPD'S PER NEC 700.32.
12	PER SPECIFICATION 260573-1.05, E.C. & SWITCHGEAR MANUFACTURER SHALL PROVIDE A SHORT-CIRCUIT COORDINATION & ARC FLASH STUDY UTILIZING COMPUTER BASED SOFTWARE, UNDER DIRECT SUPERVISION OF A LICENSED P.E. STUDY TO BE AVAILABLE TO THE CITY UPON REQUEST.

HEX KEYED NOTES:

(NOT ALL NOTES APPLY)

1	GROUNDING ELECTRODE TO BE PER NEC 250.52.
2	OCPD SHALL BE RATED FOR 100% OPERATION.
3	OCPD SHALL HAVE LONG-TIME, SHORT-TIME, INSTANTANEOUS AND GROUND FAULT (GFP) FUNCTIONS (LSIG). GFP NOT REQUIRED FOR 208Y/120V SYSTEMS.
4	ARC ENERGY REDUCTION TO BE PROVIDED FOR OCPD IN ACCORDANCE WITH NEC 240.87(A) & (B).
5	COMBINATION STARTER & FUSED DISCONNECT SWITCH TO BE PROVIDED BY CHILLER SUPPLIER.
6	PROVIDE N.O. CONTACTS ON DISCONNECT HANDLE TO SHUT OFF VFD WHEN DISCONNECT IS IN OFF POSITION.
7	FIRE PUMP TAP TO COMPLY WITH NEC 695.3(A)(1).
8	CONNECT TO ELEVATOR ROOM HEAT DETECTOR.
9	PROVIDE (2) 1"E C. FOR CONTROLS FROM ATS TO GENERATOR.
10	FEEDER TO BE ENCASED IN CONCRETE WITH A MINIMUM OF 2" OF COVER.
11	E.C. SHALL VERIFY ELEVATOR MOTOR HP, OCPD AND CONDUCTOR SIZES W/ ELEVATOR SHOP DRAWINGS PRIOR TO SWITCHGEAR SUBMITTAL AND ADJUST ACCORDINGLY. ENCLOSED SHUNT TRIP CIRCUIT BREAKER TO BE LOCATED IN EMR.
12	ENSURE ALL LIFE SAFETY & LEGALLY REQUIRED STAND-BY SYSTEM PANELS SELECTIVELY COORDINATE WHERE REQUIRED BY THE NEC.
13	ELEVATOR CIRCUITS ORIGINATING FROM THIS PANEL TO BE PROVIDED WITH 2-HOUR PROTECTION - ROUTE CIRCUITS IN SLABS WHERE ALLOWED BY STRUCTURAL ENGINEER AND 2-HOUR SHAFTS FOR VERTICAL RISERS, OR PROVIDE MI TYPE CABLE.

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REVISIONS

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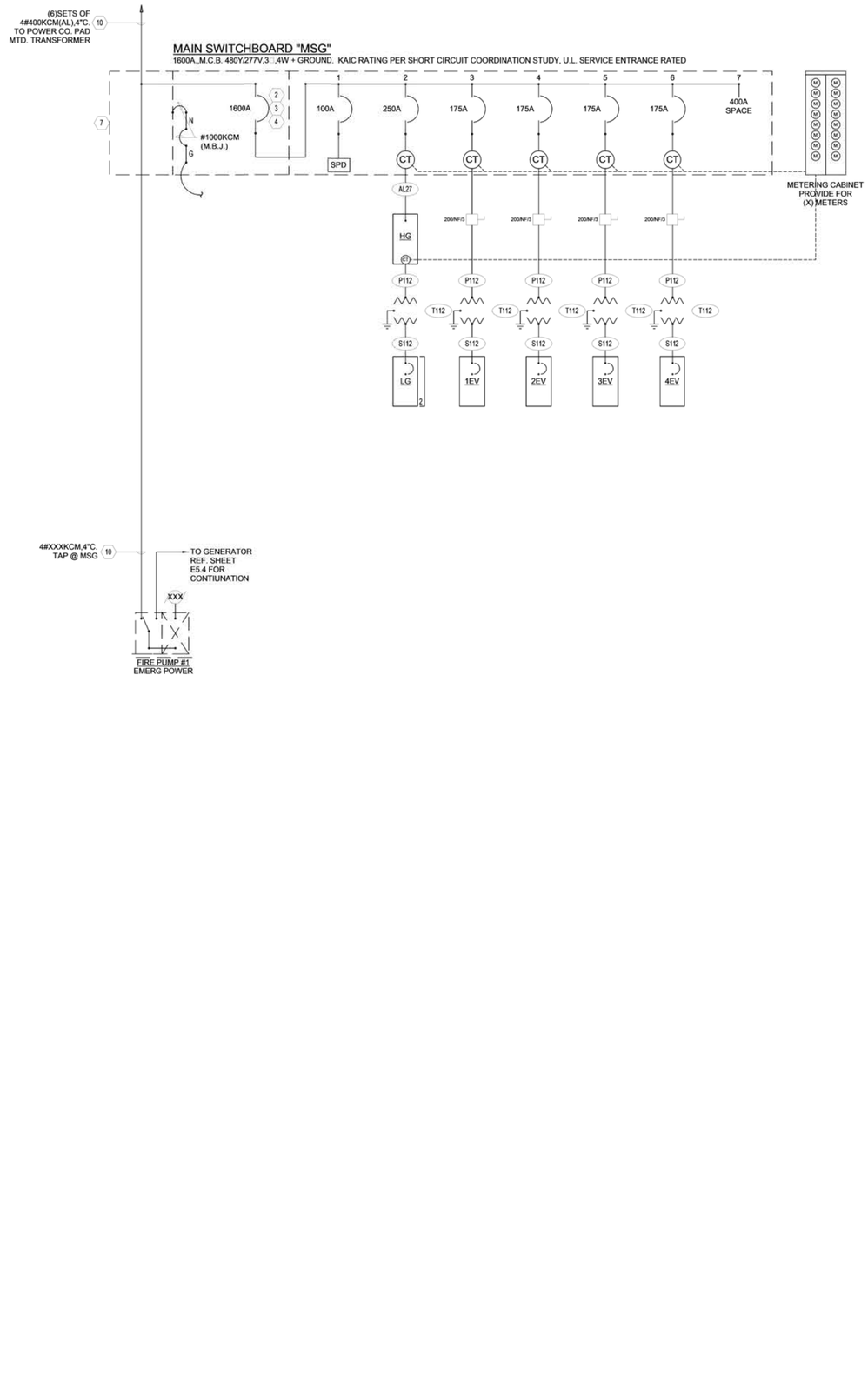
ELECTRICAL ONE-LINE DIAGRAMS

E5.2



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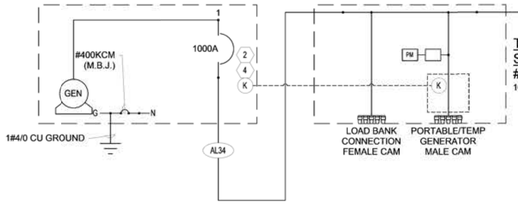
ELECTRICAL ONE-LINE DIAGRAMS

E5.3

DIESEL EMERGENCY GENERATOR

750KVA/600KW, 480Y/277V-3Ø,4W
UL142 SUB-BASE TANK W/ 12 HOURS OF FUEL



TRYSTAR DOCKING STATION

#SBDS-085W-LLM-KV
1000A,480Y/277V,3Ø,4W+GR.

FIRE PUMP & EMERGENCY BRANCH TO BE IN SEPARATE VERTICAL SECTIONS AND BARRIERED PER NEC REQUIREMENTS.

3#XXX,1#XXXG,2"C.
4#XXX,2"C.
TO PAD MTD. TRANSFORMER
FIRE PUMP EMERG POWER

DISTRIBUTION BOARD 'DHE'

1000A,M.L.O. 480Y/277V,3Ø,4W + GROUND, 65KAIC RATING.

XXXA | 200A | 400A | 400A | 250A | 100A | SPD

PER SPECIFICATION 260573-1.05, ELECTRICAL CONTRACTOR AND SWITCHGEAR MANUFACTURER SHALL PROVIDE A SHORT-CIRCUIT COORDINATION STUDY UTILIZING COMPUTER BASED SOFTWARE, UNDER DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. STUDY TO BE AVAILABLE TO THE CITY UPON REQUEST.

ATS #2 400A/4P — TO MSA REF. SHEET E5.2 FOR CONT. — AL30 — HEM — P45 — T45 TLEM — S45 — LEM

ATS #3 250A/4P — TO MSA REF. SHEET E5.2 FOR CONT. — AL27 — HEQ — P112 — K112 TLEQ — KIS112 — AL21 — LEQ — LKE

PROVIDE CONTROLS TO SHUNT ATS#3 IN THE EVENT THE FIRE PUMP IS RUNNING.

X — 4MXX — XXXNF/3/3R — CWHP-01.1 — VFD — XXXNF/3/3R — CHP-1-1

50KVA UPS W/ SIDECAR MAINTENANCE BYPASS (SIMILAR TO SCHNEIDER ELECTRIC GALAXY VS SERIES W/ 10 MIN. OF BATTERIES).

UPS TO BE PROVIDED W/ REMOTE EPO.

MB — UIB — #50 UPS — UOB — MBB — KIS75 — UPS — B2 — 3LV

ATS #4 400A/4P — TO MSA REF. SHEET E5.2 FOR CONT. — AL30

DISTRIBUTION BOARD 'RDHEM' (LEGALLY REQUIRED NEC 701,60s)

400A ,M.L.O. 480Y/277V,3Ø,4W + GROUND, 65KAIC RATING.

50A | XXXA S.T. | XXXA S.T. | XXXA S.T. | XXXA | XXXA | XXXA | 100A SPACE

P30 — T30 XXX/XXX/3 — TRLEM — S30 — RLEM

3#X, 1#XG, X"C. — PASSENGER ELEVATOR 1
3#X, 1#XG, X"C. — PASSENGER ELEVATOR 2
3#X, 1#XG, X"C. — SERVICE ELEVATOR 1

4MXX — VFD — SPF-R-1
4MXX — VFD — SPF-R-2
4MXX — VFD — EF-X-1

ATS #1 200A/4P — TO MSA REF. SHEET E5.2 FOR CONT. — AL25

HCE | 1HE | HCE | 5HE

P30 | P45 | P30 | P30

T30 TLGE | T45 T1LE | T30 TLCE | T30 T5LE

LGE | 1LE | LCE | 5LE

DP1E | DPMRE | DPBRE | DPJBE | DP4E

EMERGENCY GENERATOR/SYSTEM GENERAL NOTES:

1	PROVIDE SIGNAGE AT THE SERVICE ENTRANCE EQUIPMENT INDICATING THE TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCES PER NEC 700.7.
2	EMERGENCY POWER SYSTEM TO COMPLY WITH NEC 700.3(A) CONDUCT OR WITNESS TEST, (B) TEST PERIODICALLY, (C) MAINTENANCE, (D) WRITTEN RECORD, (E) TESTING UNDER LOAD.
3	PROVIDE AUDIBLE AND VISUAL SIGNAL DEVICES TO COMPLY WITH NEC 700.6(A) THRU (D).
4	EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGNECY CIRCUIT OR SYSTEM PER NEC 700.10(A)(1) & (2).
5	EMERGENCY SYSTEM OVERCURRENT DEVICES SHALL BE SELECTIVELY COORDINATED W/ ALL SUPPLY-SIDE OVERCURRENT DEVICES PER NEC 700.32.

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ELECTRICAL ONE-LINE DIAGRAMS

E5.4

LIGHTING CONTROL SCHEDULE

SENSOR TYPE	DESCRIPTION & MANUFACTURER OPTIONS	COVERAGE SQ. FT.	INPUT VOLTS	RATED WATTS	FINISH	MOUNTING
R	Infrared Occupancy Sensor Wall Switch, Incandescent or Fluorescent, Self-Adaptive Technology	1000	277V	1200	White	Wall @ 48"AFF
	M# LEVITON #ODS15-ID M# COOPER #ONW-P-1001-MV-W M# WATTSTOPPER #PW-100 M# ILC-SWX-101-WH		120V	800		
	M# HUBBELL BLDG AUTO. #LHIDS1					
M**	Multi-Technology Ceiling Mount Occupancy Sensor, Incandescent or Fluorescent, Self-Adaptive Technology (Provide (1) type "P" power pack for each switchleg. ** Denotes Switchlegs)	2000	24VDC		White	Surface @ Ceiling
	M# LEVITON #OSC20-M0W M# COOPER #OAC-DT-2000 M# ILC-SWX-222-1 M# WATTSTOPPER #DT-300 M# HUBBELL BLDG AUTO. #OMNI-DT2000					
P	Heavy Duty Lighting Switchpack, Low Voltage Control w/ Zero Crossing Circuitry, UL Listed. (Use: Controlling different loads thru (1) one occupancy sensor)	N/A	277/120V		Standard	Junction Box Above Ceiling (Verify Size w/ Manuf.)
	M# LEVITON #OPP20-0D2 M# COOPER #SP20-RD4 M# ILC-SWX-900-AX M# HUBBELL BLDG AUTO. #UVPP M# WATTSTOPPER BZ-100					
R**	Dual Relay Infrared Occupancy Sensor Wall Switch, Incandescent or Fluorescent, Self-Adaptive Technology (** Denotes Switchlegs)	1000	277V	1200	White	Wall @ 48"AFF
	M# WATTSTOPPER#PW-200 M# COOPER #ONW-P-1001-DMV-W M# ILC-SWX-102-WH M# LEVITON #ODS0D-ID M# HUBBELL BLDG AUTO. #LHIDR2		120V	800		
TS	Commercial Grade Digital Timer Switch. Switch to be adjustable from 5 minutes to 12 hours. Switch to be certified to comply w/ Title 24 requirements.		277V	1200	White	Wall @ 48"AFF
	M# WATTSTOPPER#TS-400 M# COOPER #TSW-MV-W M# ILC-SWX-843-12H		120V	800		
V	Infrared Vacancy Sensor Wall Switch, Incandescent or Fluorescent, Self-Adaptive Technology		277V	1200	White	Wall @ 48"AFF
	M# WATTSTOPPER#TS-400 M# COOPER #VNW-P-1001-MV-W M# ILC-SWX-101-WH		120V	800		

REF. SPEC 260510-2.18(N) AND 2.22(T) FOR ACCEPTABLE EQUAL MANUFACTURERS FOR DIMMER SWITCHES AND SENSORS.

LIGHTING CONTROL NARRATIVE

SPACE TYPE	MANUAL ON	MANUAL OFF	LOCAL DIMMING SWITCH	OVERRIDE SWITCH	CENTRAL DIMMING MULTI ZONE SWITCH**	KEY SWITCH	TIME CLOCK ON	TIME CLOCK OFF	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR OFF	VACANCY SENSOR OFF	PHOTOCONTROL SWITCHING*	PHOTOCONTROL DIMMING*	EXTERIOR PHOTOCELL ON	EXTERIOR PHOTOCELL OFF	EGRESS/EXIT LIGHTING ON 24/7	CAPTIVE KEY CARD CONTROL	WIRING DIAGRAM REFERENCE	SEQUENCE OF OPERATIONS
Ballrooms (Central System)***	X	X			X			X	X	X			X						5,6
Bar/Dining Areas (Central System)***	X	X			X			X	X	X			X						5,6
Bar/Dining Areas (Stand-alone)	X	X	X						X	X			X						1,6
Break Rooms	X	X							X	X		X							1,6
Classrooms/Lecture/Training Rooms	X	X	X						X	X			X						1,6
Conference/Meeting/Multipurpose Rooms (Cental System)***	X	X			X			X	X	X			X						5,6
Conference/Meeting/Multipurpose Rooms (Stand-alone)	X	X	X						X	X			X						1,6
Copy/Print Rooms	X	X							X	X									1
Corridors																X	X		
Electrical/Mechanical Rooms	X	X																	
Exterior Site/Facade Lighting								X						X					9
Exterior Parking Lot Lighting														X	X				10
Exterior Security Lighting														X	X				8
Garage Lighting									X	X									11
Guestrooms	X	X							X	X									7
Guest Bathrooms	X	X									X								7
Janitor's Closet	X	X							X	X									1
Kitchen	X	X							X	X									1
Lobbies/Reception Areas (Central System)***	X	X			X			X	X	X			X						5,6
Lobbies/Reception Areas (Stand-alone)	X	X	X						X	X			X						1,6
Locker Rooms	X	X							X	X									1
Lounges	X	X							X	X		X							1,6
MDF/IDF Rooms	X	X							X	X									1
Open Plan Offices	X			X					X	X			X						1,3,4,6
Pantry	X	X							X	X			X						1
Prefunction	X	X			X			X	X	X			X						5,6
Enclosed Offices	X	X							X	X			X						1,6
Restrooms	X	X				X			X	X									1
Stairways																X	X		
Storage Rooms	X	X									X								1
Warehouse	X		X						X	X									2
Fixtures designated w/ "NL"																X	X		
*Photoelectric switching/dimming only required when there are daylight zones present																			
**Multizone switch only applicable if central dimming system specified.																			

***THIS PROJECT TO BE PROVIDED WITH A CENTRAL DIMMING SYSTEM
Sequence of Operation
1. Occupancy/Vacancy sensors shall be programmed to automatically turn off lights within 20 minutes of all occupants leaving the space.
2. In warehouses, the lighting in aisleways and open areas shall be controlled with occupancy sensors that automatically reduce lighting power by not less than 50 percent when the areas are unoccupied. The occupancy sensors shall control lighting in each aisleway independently and shall not control lighting beyond the aisleway being controlled by the sensor.
3. Occupancy sensors shall be configured so that general lighting can be controlled separately in control zones with floor areas not greater than 600 SF within the open plan office space.
4. The controls shall be configured such that any daylight responsive control will activate open plan office space general lighting or control zone general lighting only when the occupancy for the same area is detected.
5. Central dimming system shall have a 7-day clock, be capable of being set for seven different day types per week, incorporate an automatic holiday "shut-off" feature, have program back-up capabilities and include an override switch.
6. Where required, provide daylight-responsive controls per governing edition of the IECC. Top-light and side-light daylight zones to be controlled independently of each other.
7. Hotel and motel sleeping units and guest suites shall have a master control device that is capable of automatically switching off all installed luminaires and switched recpetacles within 20 minutes of all occpants leave the room.
8. Exterior Security Lighting to be photocell on/photocell off.
9. Façade or landscape lighting to be photocell on/timeclock off.
10. Parking lot lighting shall be automatically reduced by a minimum of 30% from not later than midnight to not earlier than 6 am, from not later than one hour after business closing to not earlier than one hour before business opening or during any period when activity has not been detected for a time of longer than 15 minutes.
11. Parking garage lighting fixtures to be provided with integral dimming occupancy sensors. Fixtures to dim to 30% when no motion is detected.

LIGHTING FIXTURE SCHEDULE

GENERAL LIGHTING NOTES:

1 COORDINATE EACH LIGHT FIXTURE INSTALLATION WITH CEILING TYPE TO BE INSTALLED.

2 INDIVIDUAL COMPONENTS OF THE LIGHTING FIXTURE SCHEDULE SHALL NOT BE INTERPRETED SEPARATELY FROM THE ENTIRE SCHEDULE. THAT IS, THE ENTIRE FIXTURE SPECIFICATION, INCLUDING ALL COLUMNS IN THE LIGHT FIXTURE SCHEDULE AND ALL SUPPORTING INFORMATION IN THESE DOCUMENTS. ANY CONFLICTS BETWEEN MODEL NUMBERS AND OTHER COLUMNS OF THE SCHEDULE SHALL BE IDENTIFIED IN WRITING TO THE ARCHITECT. IN THE CASE OF A CONFLICT, E.C. SHALL BASE BID ON THE MORE EXPENSIVE INTERPRETATION.

3 NOT ALL FIXTURES NECESSARILY USED ON ALL PROJECTS.

NOTE: THIS FIXTURE SCHEDULE IS NOT TO BE USED FOR FRONT-OF-HOUSE AREAS. REFER TO LIGHTING DESIGNER DRAWINGS/SCHEDULES/SPECIFICATIONS FOR FRONT-OF-HOUSE REQUIREMENTS. THIS SCHEUDLE IS NOT TO BE USED FOR ALLOWANCES OR BUDGETING PURPOSES IN FRONT-OF-HOUSE AREAS.

FIXT. TYPE	DESCRIPTION & MANUFACTURER OPTIONS	DIFFUSER/ REFLECTOR	LAMPS NO.	LAMPS TYPE	FIXT. VOLT	TOTAL WATTS	FINISH	REMARKS	MOUNTING
BC1	2' X 4' LED Air-Handling Direct/Indirect, Electronic Driver (<20%THD). M# COOPER #24CZ2 A-40-UNV-L835-CD1 M# EQUAL BY COLUMBIA, LITHONIA	Acrylic Diffuser, Waveform Optics		LED 3500K, 4100 LUMENS	UNIV	36	White	FIXTURE MUST BE RETURN AIR CAPABLE	Recessed (Lay-In)
BC4	2' x 4' LED Panel, Integral Electronic Driver. M# COOPER #24FP6435C M# EQUAL BY COLUMBIA, RAB, LITHONIA	Frosted Polystyrene		LED 3500K, 6091 LUMENS	UNIV	60	White		Recessed (Lay-In)
BC5	2' X 2' LED Air-Handling Direct/Indirect, Electronic Driver (<20%THD). M# COOPER #22CZ2 A-39-UNV-L835-CD1 M# EQUAL BY COLUMBIA, LITHONIA	Acrylic Diffuser, Waveform Optics		LED 3500K, 3900 LUMENS	UNIV	34	White	FIXTURE MUST BE RETURN AIR CAPABLE	Recessed (Lay-In)
BC9	2' x 2' LED Panel, Integral Electronic Driver. M# COOPER #22FP4235C M# EQUAL BY COLUMBIA, RAB, LITHONIA	Frosted Polystyrene		LED 3500K, 4300 LUMENS	UNIV	38	White		Recessed (Lay-In)
BC9	24" LED Lensed Strip Light, Electronic Ballast (<20% THD). M# COOPER #2SNX-19SL-LW-UNV-L835-CD1/AYC-CHAIN/SET-U M# EQUAL BY COLUMBIA, LITHONIA	Frosted Acrylic (0.125" Min. Thickness)		LED 3500K, 1700 LUMENS	UNIV	14	White	Chain Suspend For Ceilings above 12'AFF.	Surface Mtd (Ceilings 12ft & Lower), Chain Suspended to 12' AFF (Ceilings above 12'AFF)
BC12	48" LED Lensed Strip Light, Electronic Ballast (<20% THD). M# COOPER #4SNX-31SL-LW-UNV-L835-CD1/AYC-CHAIN/SET-U M# EQUAL BY COLUMBIA, LITHONIA	Frosted Acrylic (0.125" Min. Thickness)		LED 3500K, 3100 LUMENS	UNIV	25	White	Chain Suspend For Ceilings above 12'AFF.	Surface Mtd (Ceilings 12ft & Lower), Chain Suspended to 12' AFF (Ceilings above 12'AFF)
BC13	48" LED Lensed Strip Light, Electronic Ballast (<20% THD). M# COOPER #4SNX-51SL-LW-UNV-L835-CD1/AYC-CHAIN/SET-U M# EQUAL BY COLUMBIA, LITHONIA	Frosted Acrylic (0.125" Min. Thickness)		LED 3500K, 5200 LUMENS	UNIV	46	White	Chain Suspend For Ceilings above 12'AFF.	Surface Mtd (Ceilings 12ft & Lower), Chain Suspended to 12' AFF (Ceilings above 12'AFF)
BC14	48" LED Lensed Strip Light, Integral LED Driver. M# COOPER #4SNX-74HL-LW-UNV-L840-CD1 M# EQUAL BY COLUMBIA, LITHONIA	Frosted Acrylic (0.125" Min. Thickness)		LED 4000K, 6800 LUMENS	UNIV	62	White		Surface
BC14E	48" LED Lensed Strip Light, Integral LED Driver, Wet Location Rated, Integral Emergency Battery Ballast. M# COOPER #4VT3-LD5-S-W-UNV-EL10W-L840-CD1 M# EQUAL BY COLUMBIA, LITHONIA	Prismatic Acrylic (0.125" Min. Thickness)		LED 4000K, 6000 LUMENS	UNIV	51	White		Surface
BC15	24" LED Cove Light, Integral LED Driver M# MODALIGHT #MMCI-S-S-0-35H-4 M# EQUAL BY COLUMBIA, LITHONIA	N/A		LED 3500K, 1500 LUMENS	UNIV	17	White		Coord. w/ Architect
BC16	24" LED Undercabinet Task Light, Electronic Driver (<20% THD). M# COOPER #HU11-24-D90-XX M# EQUAL BY COLUMBIA, LITHONIA	Prismatic Acrylic (0.125" Min. Thickness)		LED SELECTABLE COLOR TEMP, 785 LUMENS	120V	11	Standard		Coord. w/ Architect
BC17	6" LED Downlight, Integral LED Dimming Driver. M# COOPER #HC620D010-HM6052583O-61MDC M# EQUAL BY COLUMBIA, GOTHAM	N/A		LED 3000K, 2000 LUMENS	UNIV	23.2	Standard	Standard 2-wire dimming required.	Recessed (Ceiling - Provide Flange)
BC18	4" LED Downlight, Integral LED Dimming Driver, Wet Location Rated. M# COOPER #HC410D010-HM412830-41WDC M# EQUAL BY COLUMBIA, GOTHAM	N/A		LED 3000K, 1000 LUMENS	UNIV	12.8	Standard	Standard 2-wire dimming required.	Recessed (Ceiling - Provide Flange)
BC19	6" LED Cylinder, Integral LED Dimming Driver. M# COOPER #HCC6S20D010xx-HM6C0525835-61WDC M# EQUAL BY COLUMBIA, LITHONIA	N/A		LED 3500K, 2000 LUMENS	UNIV	22.6	Standard		Surface (Ceiling)
BC20	Exterior Full Cutoff LED, Wet Location Rating, Integral LED Driver, Integral Photocell, Cold Weather Emergency Battery Pack. M# COOPER #ISW-SA1E-735-U-T4FT-BZ-CBP M# EQUAL BY COLUMBIA, LITHONIA			LED 3500K, 7100 LUMENS	UNIV	58	Coord. w/ Architect		Wall (Above Door) Verify w/ Arch
BC21	LED Parking Garage Luminaire, Wet Location Rated, Integral LED Driver. OCCUPANCY SENSOR TO BE PROVIDED ON ALL BC21 M# COOPER #TT-D5-740-U-MG-BZ-MS/DIM-xx M# LITHONIA #SPGLED-P3-35K-T5M-MVOLT-XX-PIR-ONAXD	Injection Molded Impact Resistant		LED 3500K, 10000 LUMENS	UNIV	74	Graphite Metallic	COORDINATE FIXTURE MOUNTING WITH STRUCTURE TYPE	Surface Mounted (Flat Ceilings Only) or Pendant Mounted with Bottom of Fixture Flush with Bottom of Beams
BC22	LED Canopy Light, Wet Location Rated, Integral LED Driver. M# COOPER #TT-D6-740-U-MG-MS/DIM-xx M# LITHONIA #SPGLED-P4-35K-T5M-MVOLT-XX-ONAXD	Prismatic Acrylic (0.125" Min. Thickness)		LED 3500K, 13000 LUMENS	UNIV	105	Graphite Metallic	COORDINATE FIXTURE MOUNTING WITH STRUCTURE TYPE	Surface Mounted (Flat Ceilings Only) or Pendant Mounted with Bottom of Fixture Flush with Bottom of Beams
BC24	Enclosed and Gasketed Fiberglass LED Luminaire (For Elevator Pits) M# COOPER #4VT2-LD5-6-DR-UNV-L840-CD1-WL M# EQUAL BY COLUMBIA, LITHONIA	Impact Resistant, Molded Acrylic		LED 4000K, 6000 LUMENS	UNIV	51	Standard		Wall
AW	LED Obstruction Fixture, Wet Location Rated. M# FLIGHT LIGHT #FL-L810LED-277A-S/D-B & FL-B1022 M# EQUAL	Red Lens	1	3.4W Red LED	277V	3.8	Standard		Surface
EM	Fully Recessed Emergency Lighting Unit, Integral Nicad Battery. M# EVENLITE #APAL-WH-UI M# EQUAL BY ISOLITE, LITHONIA	N/A	2	4.5 W LED	UNIV	11	Coord. w/ Architect		Recessed (Ceiling - Provide Flange)
X1 X2	LED Exit Sign, Single/Double Sided, Universal Mount, Emergency Nicad Battery. M# COOPER #LPX7 M# EQUAL BY ISOLITE, LITHONIA	N/A		LED	UNIV	3.5	White	Provide arrows as indicated.	Universal
XE1 XE2	Edge Lit LED Exit Sign with Recessed Housing, Single/Double Sided, Universal Mount, Emergency Nicad Battery. M# COOPER #EUR7GB M# EQUAL BY DUAL LITE, LITHONIA	N/A		LED	UNIV	5.2	Coord. w/ Architect	Provide arrows as indicated.	Universal (When Ceiling Mounted, Housing to be Recessed)
XL	Low Level LED Exit Sign, Single Sided, AC Power Only. Provide Arrows as Indicated. M# EVENLITE #CCDS-AC-R-1-WW-REC M# EQUAL BY DUAL LITE, LITHONIA	N/A		LED	UNIV	2.1	Coord. w/ Architect		Recess in wall @ 10" AFF (minimum)/12" AFF (maximum) to bottom of fixture. Edge of sign to be within 4" of door frame on the latch side at egress points.
XW	Self Luminous Exit Sign, Single/Double Sided, Universal Mount, Wet Location Rated. M# EVENLITE #AUR-U-WH-CN M# EQUAL BY ISOLITE, LITHONIA	N/A		N/A	N/A	N/A	Coord. w/ Architect		Universal
X3	Emergency Battery Pack Luminaire, Emergency Nicad Battery M# COOPER #CU2-LED M# EQUAL BY DUAL LITE, LITHONIA	N/A	2		UNIV	10.8	White		Wall

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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD

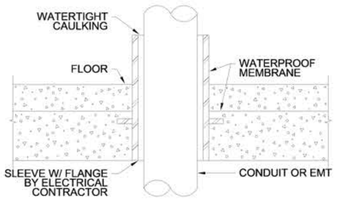
220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09-17-2025
REVISIONS

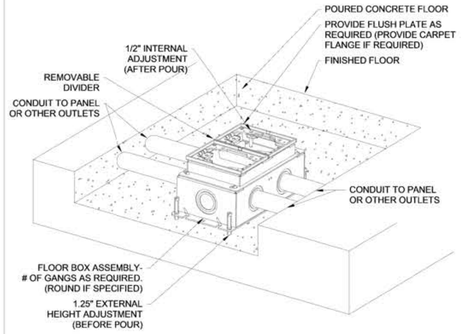
13-24114-00

LIGHTING SCHEDULES

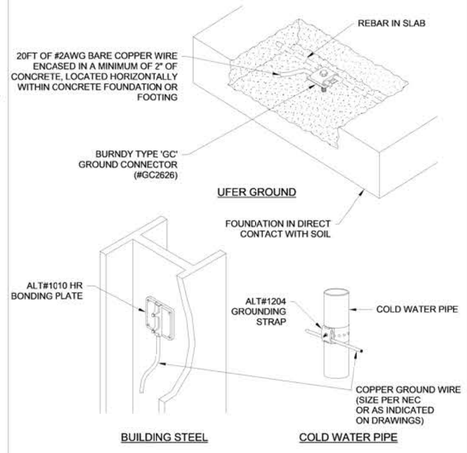
E6.1



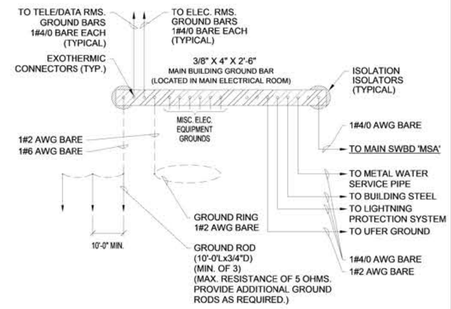
WATERPROOF CONDUIT PENETRATION THRU CONCRETE FLOOR 4
N.T.S.



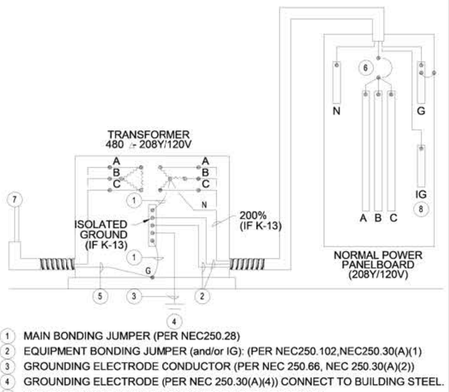
DETAIL OF FLUSH FLOOR OUTLET (IN SLAB) 3
N.T.S.



TYPICAL GROUND CONNECTION DETAILS 2
N.T.S.

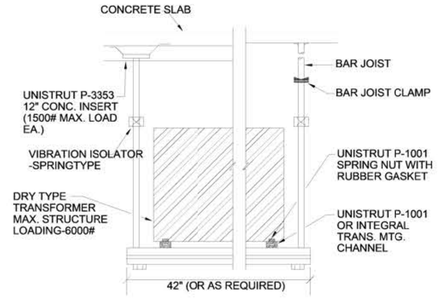


MAIN GROUND BAR DETAIL 1
N.T.S.

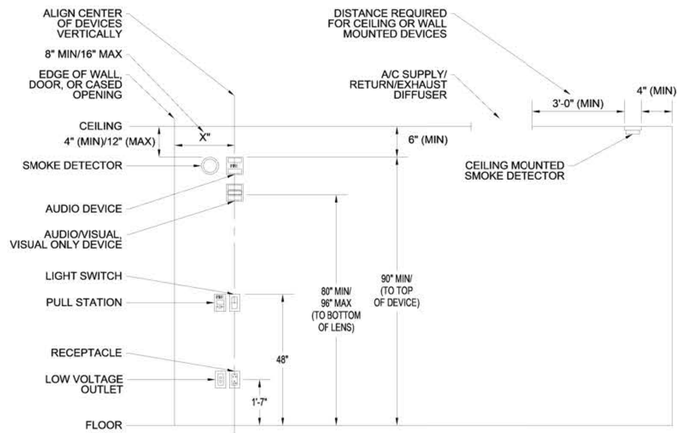


1. MAIN BONDING JUMPER (PER NEC250.28)
2. EQUIPMENT BONDING JUMPER (and/or IG): (PER NEC250.102,NEC250.30(A)(1)
3. GROUNDING ELECTRODE CONDUCTOR (PER NEC 250.66, NEC 250.30(A)(2))
4. GROUNDING ELECTRODE (PER NEC 250.30(A)(4)) CONNECT TO BUILDING STEEL.
5. EQUIPMENT GROUNDING CONDUCTOR: (PER NEC250.122)
6. FIRST DISCONNECTING MEANS.
7. PRIMARY CONDUCTORS (PHASES AND GROUND) TO PRIMARY DISCON MEANS.
8. ISOLATED GROUND BUS (IF REQUIRED)

TRANSFORMER GROUNDING DETAIL 7
N.T.S.



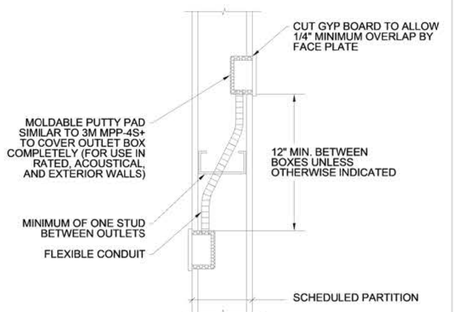
SUSPENDED TRANSFORMER MOUNTING DETAIL 6
N.T.S.



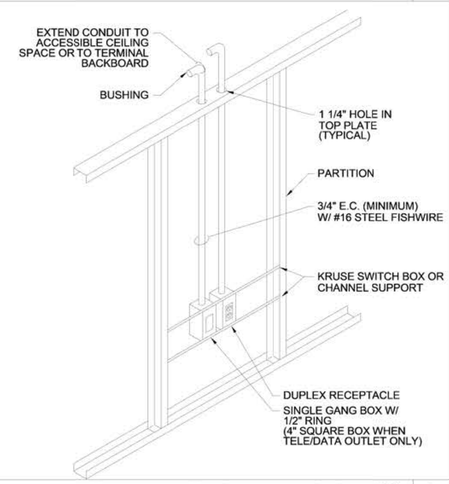
DEVICE ALIGNMENT DETAIL 5
N.T.S.

GENERAL DETAIL NOTES:

1. ALL MOUNTING HEIGHTS ARE DIMENSIONED AS DIAGRAMMED BELOW.
2. GANG ALL SWITCHES AND OUTLETS WHEREVER POSSIBLE.
3. MOUNT ALL ELECTRICAL, PHONE/DATA AND TV OUTLETS VERTICALLY UNLESS NOTED OTHERWISE.
4. COORDINATE MOUNTING HEIGHTS W/ ARCHITECTURAL PRIOR TO FINAL ROUGH-IN.



BACK TO BACK BOXES ARRANGEMENT FOR NOISE CONTROL 9
N.T.S.



OUTLET IN HOLLOW PARTITIONS DETAIL 8
N.T.S.

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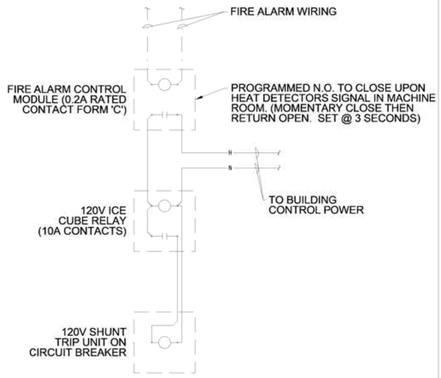
SCHEMATIC DESIGN
09-17-2025
REVISIONS

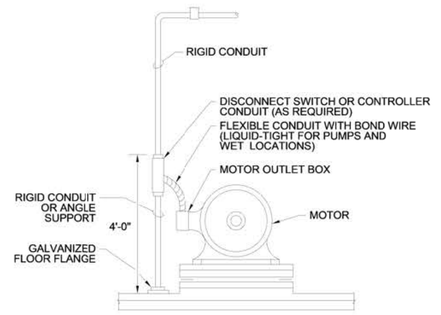
13-24114-00

ELECTRICAL DETAILS

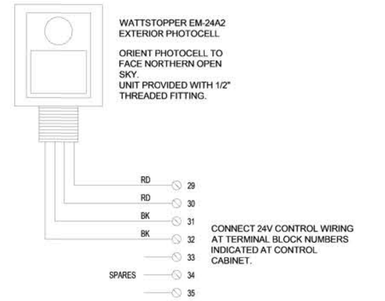
E7.1



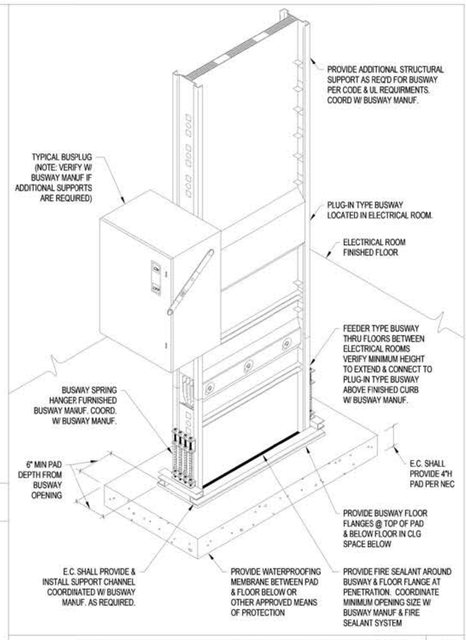
ELEVATOR SHUNT TRIP WIRING DIAGRAM N.T.S. 4



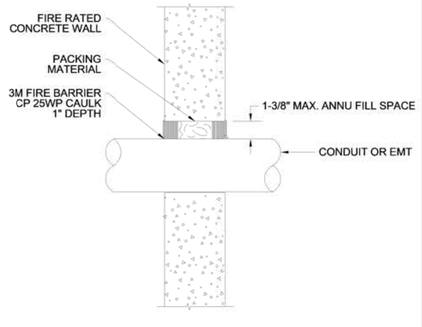
MOTOR CONNECTION DETAIL N.T.S. 3



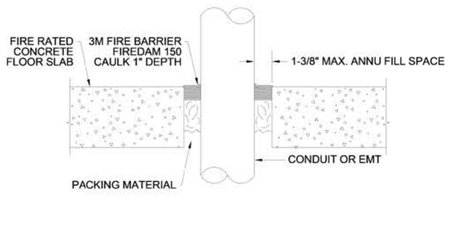
EXTERIOR PHOTOCELL DETAIL N.T.S. 2



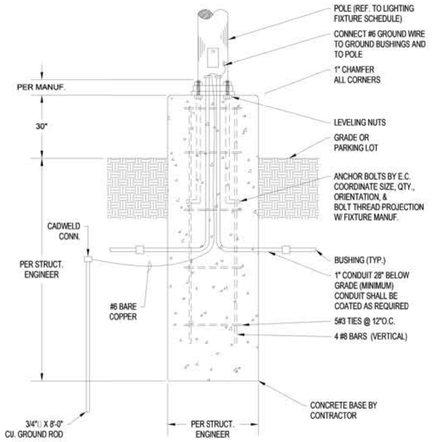
TYPICAL BUSDUCT PENETRATION DETAIL N.T.S. 1



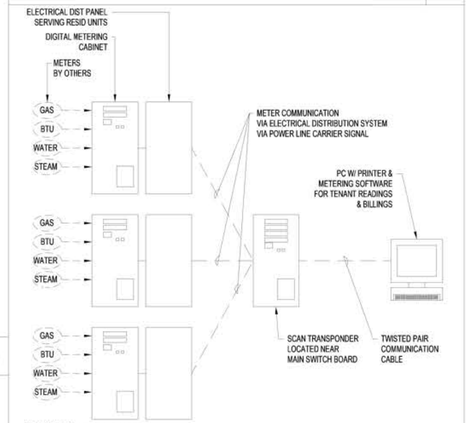
TYPICAL FIRE RATED PENETRATION THRU CONCRETE WALL N.T.S. 8



TYPICAL FIRE RATED PENETRATION THRU CONCRETE FLOOR N.T.S. 7



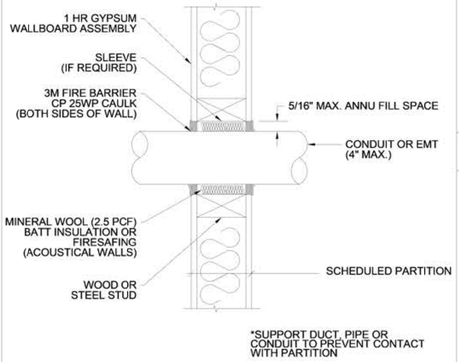
TYPICAL PARKING LOT LIGHTING FIXTURE POLE BASE N.T.S. 6



ELECTRIC METERING NOTES:

1. EACH TENANT FLOOR SHALL INCLUDE KWH METERS FOR THE PURPOSE OF SUBMETERING THE ELECTRICAL USUAGE OF EACH TENANT.
2. METERS SHALL BE FULLY ELECTRONIC W/ DIGITAL LCD DISPLAY FOR KWH READING. METERS SHALL PROVIDE TOTAL KWH HOURS, PHASE DIAGNOSTICS (INCLUDING REAL TIME AMPS, VOLTS, WATTS, AND POWER FACTOR), AND EVENT REPORTING.
3. PROVIDE AND INSTALL SCAN TRANSPONDER(S) CONNECTED TO THE MAIN SWITCHBOARD FOR DATA COLLECTION. DATA COLLECTION SHALL BE ACCOMPLISHED BY POWER LINE COMMUNICATIONS BETWEEN THE SCAN TRANSPONDER(S) AND ALL METERED POINTED AND SHALL REQUIRE NO DATA CABLING. AN RS-485 CONNECTION BETWEEN THE SCAN TRANSPONDER AND THE PC WITH IQ SOFTWARE SHALL ALSO BE PROVIDED.
4. PROVIDE PULSE DATA MODULE (PDM) TO INTERFACE WITH GAS AND WATER METERS AS SUPPLIED BY OTHERS.
5. MANFACTUER SHALL BE QUADLOGIC OR APPROVED EQUAL (REFER SPEC SECTION 26 20 01)

DIGITAL METERING DETAILS N.T.S. 5



TYPICAL FIRE RATED PENETRATION THRU GYP. WALL ASSEMBLY N.T.S. 9

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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD

220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09-17-2025
REVISIONS

13-24114-00

ELECTRICAL DETAILS

E7.2

BASIS OF DESIGN NARRATIVE
BUILDING MOUNTED & PATIOS

LIGHTING
- 6+ LAYERS OF LIGHT
- STEPLIGHTING, PLANTING HIGHLIGHT, SOFFIT DOWNLIGHT, INTEGRATED INTO FURNITURE, SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 6 CIRCUITS (4 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
ELEVATOR LOBBY (EACH)

LIGHTING
- 3+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, MATERIAL ACCENT
- FFE - SCONCES / PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 3 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
VESTIBULES (EACH)

LIGHTING
- 3+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, MATERIAL ACCENT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 3 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
HOTEL LOBBY & LOUNGE

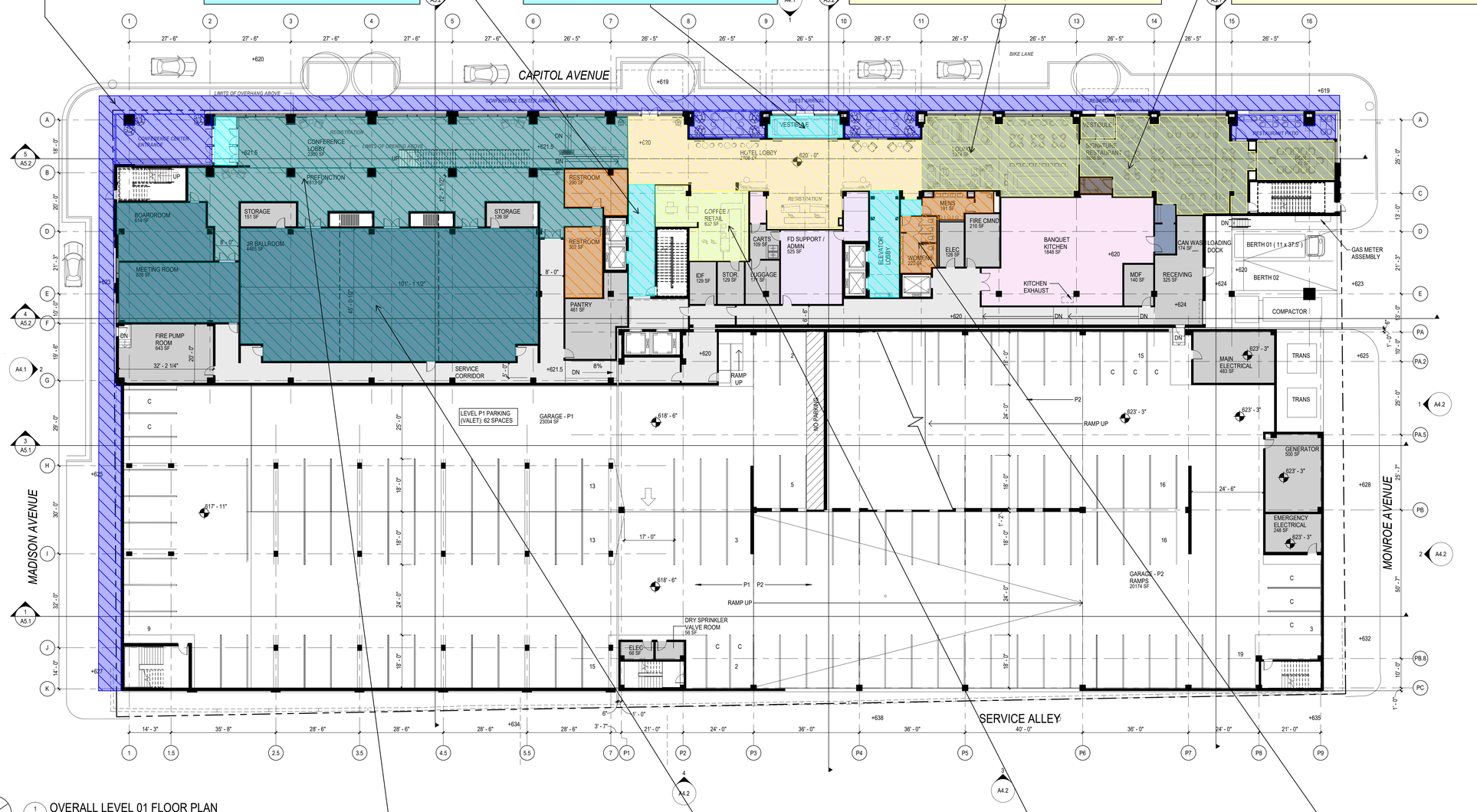
LIGHTING
- 8+ LAYERS OF LIGHT
- ARCHITECTURAL: RECESSED DOWNLIGHT, DESK REVEAL, WALL REVEAL, INTEGRATED SHELF / DISPLAY, ART LIGHTING
- FFE: TABLE / FLOOR LAMPS, SURFACE MOUNT / SEMI SURFACE

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 8 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- LAMP DIMMERS ON CONTROL SYSTEM
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
SIGNATURE RESTAURANT

LIGHTING
- 8+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, BAR HIGHLIGHT, BOTTLE / DISPLAY HIGHLIGHT, SCONCES, INTEGRATED LIGHTING AT FURNITURE / BUILT INS
- FFE - SCONCES / PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 10 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE



1 A1.1 OVERALL LEVEL 01 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

BASIS OF DESIGN NARRATIVE
PREFUNCTION

LIGHTING
- 4+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, CEILING HIGHLIGHT, ART LIGHTING
- FFE - SCONCES, PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 5 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
MEETING ROOM / BALLROOM (EACH)

LIGHTING
- 4+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, CEILING HIGHLIGHT
- FFE - SCONCES, PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 LOCAL INTERFACE
- POTENTIAL AV INTEGRATION
- 5 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- OCCUPANCY + SCENE CONTROL

BASIS OF DESIGN NARRATIVE
COFFEE RETAIL

LIGHTING
- 5+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, POS HIGHLIGHT, INTEGRATED RETAIL
- FFE - SCONCES, PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 5 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
RESTROOMS (EACH)

LIGHTING
- 4+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 LOCAL INTERFACE
- 4 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- OCCUPANCY + LIGHT LEVEL SET / DIMMING

LIGHTING BUDGETS

Description	Lighting Cost per SF	Lighting Control Cost per SF
EXTERIOR	3.00	1.00
FOH - AMENITY (PRIMARY)	15.00	2.00
FOH - AMENITY (SECONDARY)	11.00	1.75
FOH - AMENITY (SECONDARY)	11.00	1.75
FOH - CIRCULATION	10.00	1.50

GENERAL NOTES:
- BUDGET NUMBERS ARE REPRESENTATIVE OF MATERIAL END USER COST
- LABOR, INSTALLATION, TAX, FREIGHT, STAGE & STORE, AND ANY ADDITIONAL LOGISTICAL COSTS ARE EXCLUDED
- AREAS NOT HIGHLIGHTED ARE EXCLUDED FROM LS SCOPE - BUDGETS TO BE PROVIDED BY OTHERS
- FFE FIXTURES EXCLUDED FROM SF BUDGETS AND TO BE INCLUDED IN A SEPARATE FFE BUDGET BY OTHERS

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

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LS GROUP

JEFFERSON CITY CONFERENCE CENTER HOTEL
GARFIELD PUBLIC / PRIVATE LLC
220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

OVERALL LEVEL 01 LIGHTING PLAN

LP1.1

BASIS OF DESIGN NARRATIVE
BUILDING MOUNTED & PATIOS

LIGHTING
- 6+ LAYERS OF LIGHT
- STEPLIGHTING, PLANTING HIGHLIGHT, SOFFIT DOWNLIGHT, INTEGRATED INTO FURNITURE, SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 6 CIRCUITS (4 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
ELEVATOR LOBBY (EACH)

LIGHTING
- 3+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, MATERIAL ACCENT
- FFE - SCONCES / PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 3 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
GUEST ROOMS (TYPICAL)

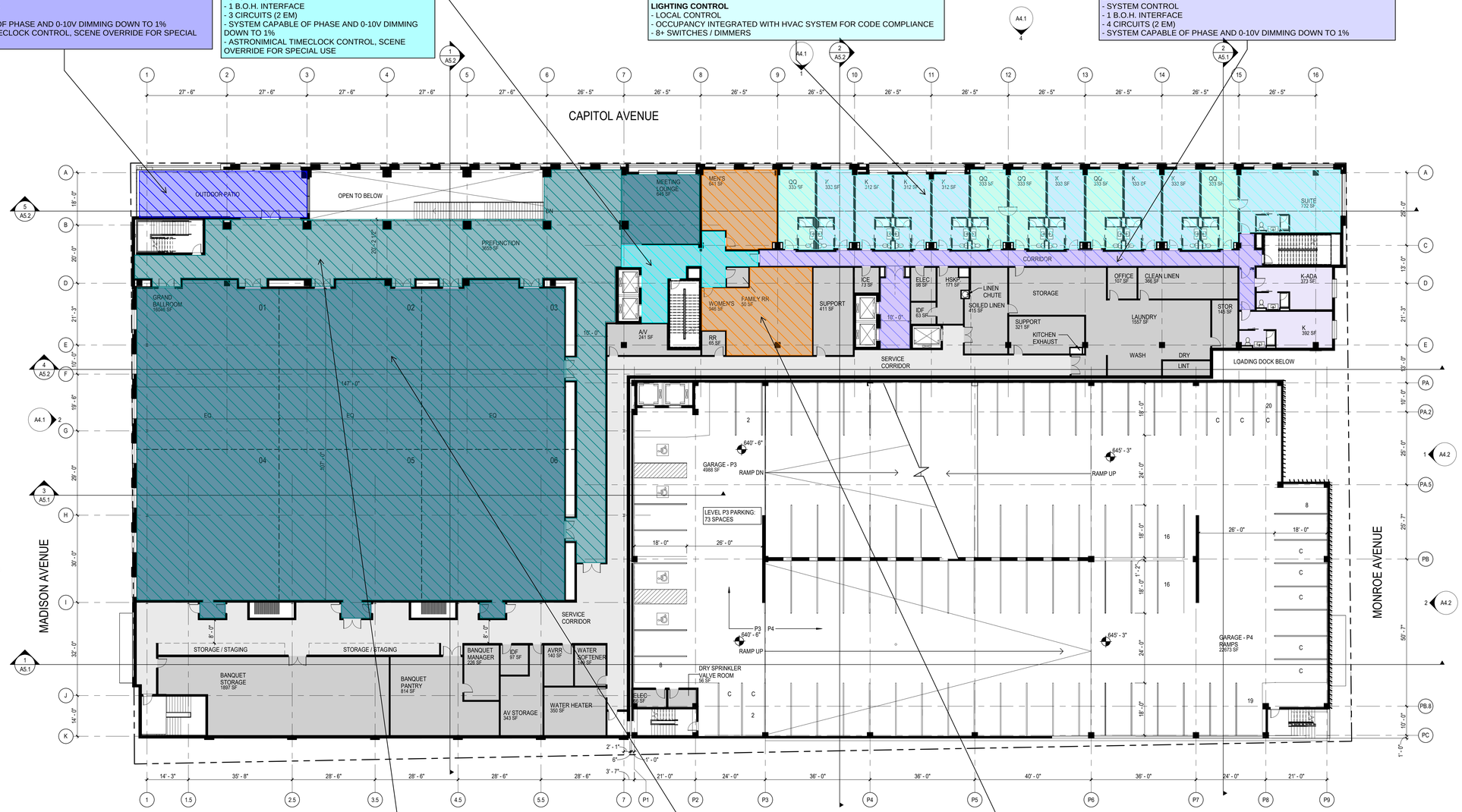
LIGHTING
- 8+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT, INTEGRATED AT BAR
- FFE - ENTRY DECO, BEDSIDE SCONCE, BEDSIDE READING, BATHROOM SURFACE MOUNT, BATHROOM SURFACE MOUNT

LIGHTING CONTROL
- LOCAL CONTROL
- OCCUPANCY INTEGRATED WITH HVAC SYSTEM FOR CODE COMPLIANCE
- 8+ SWITCHES / DIMMERS

BASIS OF DESIGN NARRATIVE
GUEST CORRIDORS (TYPICAL)

LIGHTING
- 6+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, DOOR DROP LIGHTING, ART LIGHT, ELEVATOR CORE HIGHLIGHT, ELEVATOR DROP DOWNLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 4 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%



1 / A1.2 OVERALL LEVEL 02 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

BASIS OF DESIGN NARRATIVE
PREFUNCTION

LIGHTING
- 4+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, CEILING HIGHLIGHT, ART LIGHTING
- FFE - SCONCES, PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 5 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
GRAND BALLROOM (EACH)

LIGHTING
- 6+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, CEILING HIGHLIGHT, WALL HIGHLIGHT,
- FFE - SCONCES, PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 LOCAL INTERFACE
- POTENTIAL AV INTEGRATION
- 8 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- OCCUPANCY + SCENE CONTROL

BASIS OF DESIGN NARRATIVE
RESTROOMS (EACH)

LIGHTING
- 4+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 LOCAL INTERFACE
- 4 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- OCCUPANCY + LIGHT LEVEL SET / DIMMING

LIGHTING BUDGETS		
Description	Lighting Cost per SF	Lighting Control Cost per SF
EXTERIOR	3.00	1.00
FOH - AMENITY (SECONDARY)	11.00	1.75
FOH - CIRCULATION	10.00	1.50
FOH - RESTROOMS	10.00	1.00
GUEST - CORRIDORS	10.00	2.00
GUEST - ROOMS	9.00	1.50

GENERAL NOTES:
- BUDGET NUMBERS ARE REPRESENTATIVE OF MATERIAL END USER COST
- LABOR, INSTALLATION, TAX, FREIGHT, STAGE & STORE, AND ANY ADDITIONAL LOGISTICAL COSTS ARE EXCLUDED
- AREAS NOT HIGHLIGHTED ARE EXCLUDED FROM LS SCOPE - BUDGETS TO BE PROVIDED BY OTHERS
- FFE FIXTURES EXCLUDED FROM SF BUDGETS AND TO BE INCLUDED IN A SEPARATE FFE BUDGET BY OTHERS

LEVEL 02 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 02	
A509	QQ
A510	K
A511	K
A512	K
A513	QQ
A514	QQ
A515	K
A516	QQ
A517	K
A518	K
A519	QQ
A520	SUITE
A522	K-ADA
A523	K
A761	K
LEVEL 02: 15	

LEVEL 02 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	8
K-ADA	1
QQ	5
SUITE	1
KEYS: 15	

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

OVERALL KEY COUNT	
LEVEL	COUNT
LEVEL 02	15
LEVEL 03	29
LEVEL 04	23
LEVEL 05	33
LEVEL 06	34
LEVEL 07	34
LEVEL 08	32
TOTAL: 200	

GUESTROOM SCHEDULE	
ROOM TYPE	# OF KEYS
GOVERNOR'S SUITE	1
K	107
Q/Q	80
SUITE	12
TOTAL KEYS: 200	

GUESTROOM RATIO		
ROOM TYPE	COUNT	PERCENTAGE
GOVERNOR'S SUITE	1	1%
K	107	54%
Q/Q	80	40%
SUITE	12	6%
	200	

GUESTROOM CONNECTOR RATIO		
CONNECTOR	COUNT	PERCENTAGE
	158	79%
	10	5%
PROVIDED	32	16%
	200	

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JEFFERSON CITY CONFERENCE CENTER HOTEL

GARFIELD PUBLIC / PRIVATE LLC

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SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

OVERALL LEVEL 02 LIGHTING PLAN

LP1.2

BASIS OF DESIGN NARRATIVE
GUEST ROOMS (TYPICAL)

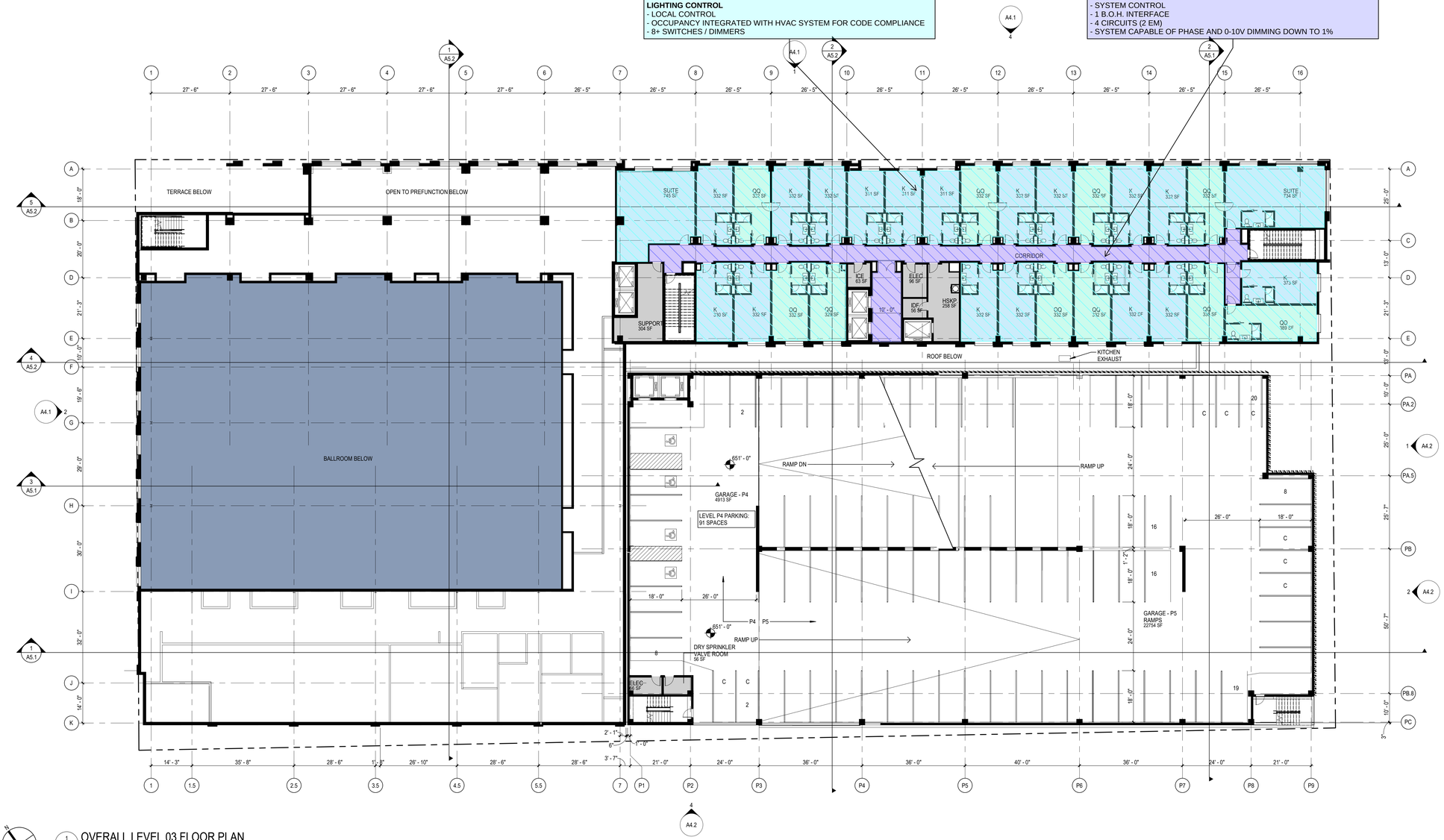
LIGHTING
- 8+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT, INTEGRATED AT BAR
- FFE - ENTRY DECO, BEDSIDE SCONCE, BEDSIDE READING, BATHROOM SURFACE MOUNT, BATHROOM SURFACE MOUNT

LIGHTING CONTROL
- LOCAL CONTROL
- OCCUPANCY INTEGRATED WITH HVAC SYSTEM FOR CODE COMPLIANCE
- 8+ SWITCHES / DIMMERS

BASIS OF DESIGN NARRATIVE
GUEST CORRIDORS (TYPICAL)

LIGHTING
- 6+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, DOOR DROP LIGHTING, ART LIGHT, ELEVATOR CORE HIGHLIGHT, ELEVATOR DROP DOWNLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 4 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%



1 A1.3 OVERALL LEVEL 03 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45
PROJECT TOTAL	526

LIGHTING BUDGETS		
Description	Lighting Cost per SF	Lighting Control Cost per SF
GUEST - CORRIDORS	10.00	2.00
GUEST - ROOMS	9.00	1.50

GENERAL NOTES:
- BUDGET NUMBERS ARE REPRESENTATIVE OF MATERIAL END USER COST
- LABOR, INSTALLATION, TAX, FREIGHT, STAGE & STORE, AND ANY ADDITIONAL LOGISTICAL COSTS ARE EXCLUDED
- AREAS NOT HIGHLIGHTED ARE EXCLUDED FROM LS SCOPE - BUDGETS TO BE PROVIDED BY OTHERS
- FFE FIXTURES EXCLUDED FROM SF BUDGETS AND TO BE INCLUDED IN A SEPARATE FFE BUDGET BY OTHERS

LEVEL 03 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 03	
A481	K
A482	QQ
A483	K
A484	K
A485	K
A486	K
A487	K
A488	QQ
A489	K
A490	K
A491	QQ
A492	K
A493	K
A494	QQ
A495	SUITE
A497	K
A498	QQ
A506	QQ
A507	QQ
A508	K
A558	K
A559	K
A560	QQ
A561	K
A564	K
A565	QQ
A566	QQ
A661	K
A724	SUITE
LEVEL 03: 29	

LEVEL 03 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	17
QQ	10
SUITE	2
KEYS: 29	

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

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GARFIELD PUBLIC / PRIVATE LLC
220 E. CAPITOL AVE. JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
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OVERALL LEVEL 03 LIGHTING PLAN

LP1.3

BASIS OF DESIGN NARRATIVE
POOL DECK

LIGHTING
- 6+ LAYERS OF LIGHT
- STEPLIGHTING, PLANTING HIGHLIGHT, SOFFIT DOWNLIGHT, INTEGRATED INTO FURNITURE, SCONCES, BOLLARDS / SAFETY POOL DECK LIGHTING

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 6 CIRCUITS (4 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
ROOFTOP LOUNGE

LIGHTING
- 8+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, BAR HIGHLIGHT, BOTTLE / DISPLAY HIGHLIGHT, SCONCES, INTEGRATED LIGHTING AT FURNITURE / BUILT INS
- FFE - SCONCES / PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 10 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- ASTRONIMICAL TIMECLOCK CONTROL, SCENE OVERRIDE FOR SPECIAL USE

BASIS OF DESIGN NARRATIVE
GUEST ROOMS (TYPICAL)

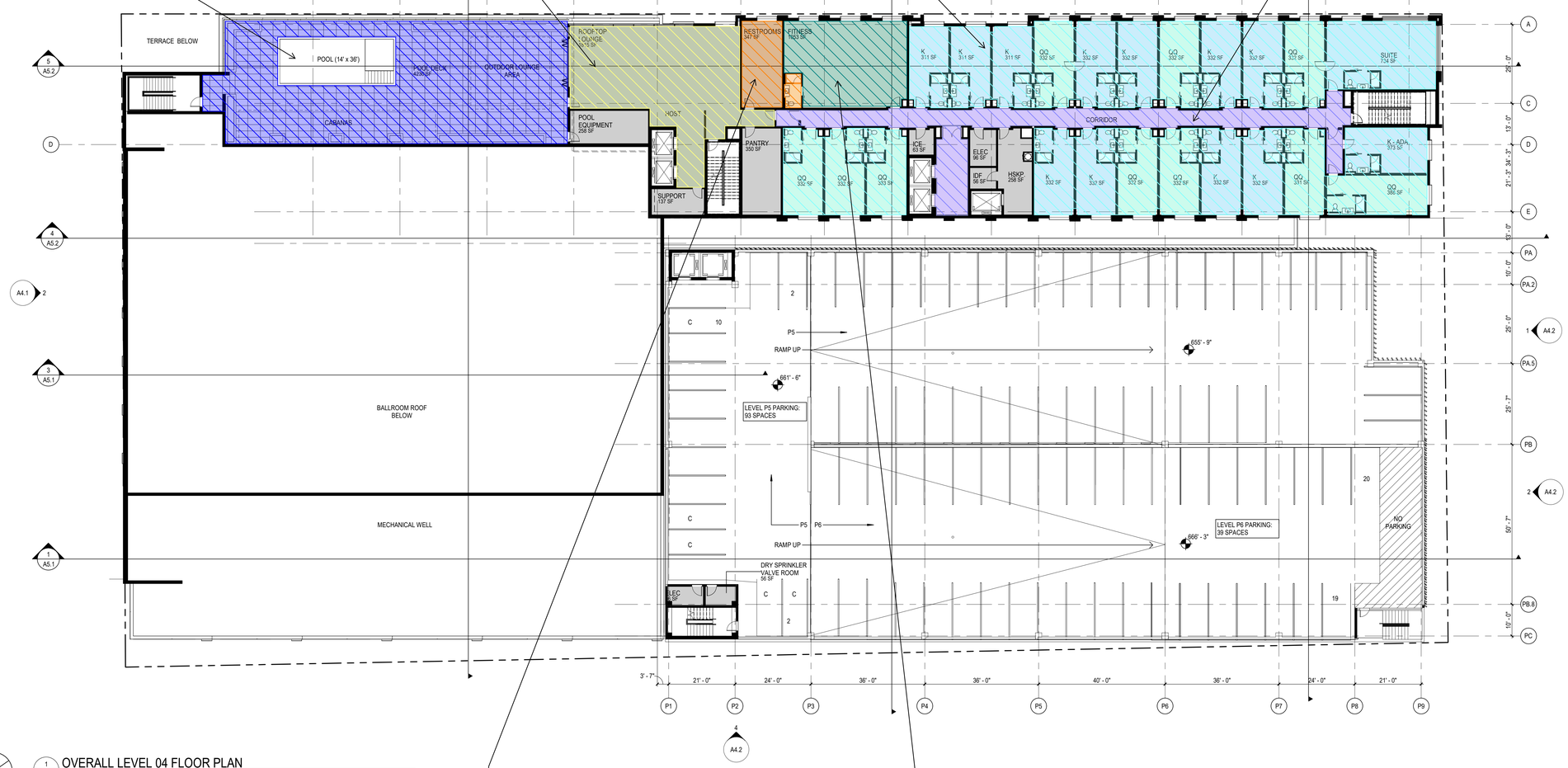
LIGHTING
- 8+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT, INTEGRATED AT BAR
- FFE - ENTRY DECO, BEDSIDE SCONCE, BEDSIDE READING, BATHROOM SURFACE MOUNT, BATHROOM SURFACE MOUNT

LIGHTING CONTROL
- LOCAL CONTROL
- OCCUPANCY INTEGRATED WITH HVAC SYSTEM FOR CODE COMPLIANCE
- 8+ SWITCHES / DIMMERS

BASIS OF DESIGN NARRATIVE
GUEST CORRIDORS (TYPICAL)

LIGHTING
- 6+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, DOOR DROP LIGHTING, ART LIGHT, ELEVATOR CORE HIGHLIGHT, ELEVATOR DROP DOWNLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 4 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%



1 A1.4 OVERALL LEVEL 04 FLOOR PLAN
SCALE: 1/16" = 1'-0"

PARKING SCHEDULE	
LEVEL	SPACES
P1	62
P2	123
P3	73
P4	91
P5	93
P6	39
TOTAL	481

SITE	45

PROJECT TOTAL 526

BASIS OF DESIGN NARRATIVE
RESTROOMS (EACH)

LIGHTING
- 4+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 LOCAL INTERFACE
- 4 CIRCUITS (1 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- OCCUPANCY + LIGHT LEVEL SET / DIMMING

BASIS OF DESIGN NARRATIVE
FITNESS

LIGHTING
- 5+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, CEILING HIGHLIGHT, WALL HIGHLIGHT, INTEGRATED LIGHTING
- FFE - SCONCES, PENDANTS

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 LOCAL INTERFACE
- POTENTIAL AV INTEGRATION
- 8 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%
- OCCUPANCY + SCENE CONTROL

LIGHTING BUDGETS

Description	Lighting Cost per SF	Lighting Control Cost per SF
EXTERIOR	3.00	1.00
FOH - AMENITY (PRIMARY)	15.00	2.00
FOH - AMENITY (SECONDARY)	11.00	1.75
FOH - RESTROOMS	10.00	1.00
GUEST - CORRIDORS	10.00	2.00
GUEST - ROOMS	9.00	1.50

GENERAL NOTES:
- BUDGET NUMBERS ARE REPRESENTATIVE OF MATERIAL END USER COST
- LABOR, INSTALLATION, TAX, FREIGHT, STAGE & STORE, AND ANY ADDITIONAL LOGISTICAL COSTS ARE EXCLUDED
- AREAS NOT HIGHLIGHTED ARE EXCLUDED FROM LS SCOPE - BUDGETS TO BE PROVIDED BY OTHERS
- FFE FIXTURES EXCLUDED FROM SF BUDGETS AND TO BE INCLUDED IN A SEPARATE FFE BUDGET BY OTHERS

LEVEL 04 GUESTROOM SCHEDULE BY ROOM

ROOM NUMBER	ROOM TYPE
LEVEL 04	
A456	SUITE
A457	K
A458	K - ADA
A459	QQ
A460	QQ
A461	QQ
A467	K
A468	QQ
A469	K
A470	K
A471	K
A472	QQ
A473	K
A474	K
A475	QQ
A476	K
A477	K
A478	QQ
A554	K
A555	QQ
A556	QQ
A557	K
A613	QQ
LEVEL 04: 23	

LEVEL 04 GUESTROOM SCHEDULE BY TYPE

ROOM TYPE	COUNT
K	11
K - ADA	1
QQ	10
SUITE	1
KEYS: 23	

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

(#) SHEET NOTES

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JEFFERSON CITY CONFERENCE CENTER HOTEL
GARFIELD PUBLIC / PRIVATE LLC
220 E. CAPITOL AVE JEFFERSON CITY, MISSOURI 65101

SCHEMATIC DESIGN
09.17.2025
REVISIONS

13-24114-00

OVERALL LEVEL 04 LIGHTING PLAN

LP1.4

BASIS OF DESIGN NARRATIVE
GUEST ROOMS (TYPICAL)

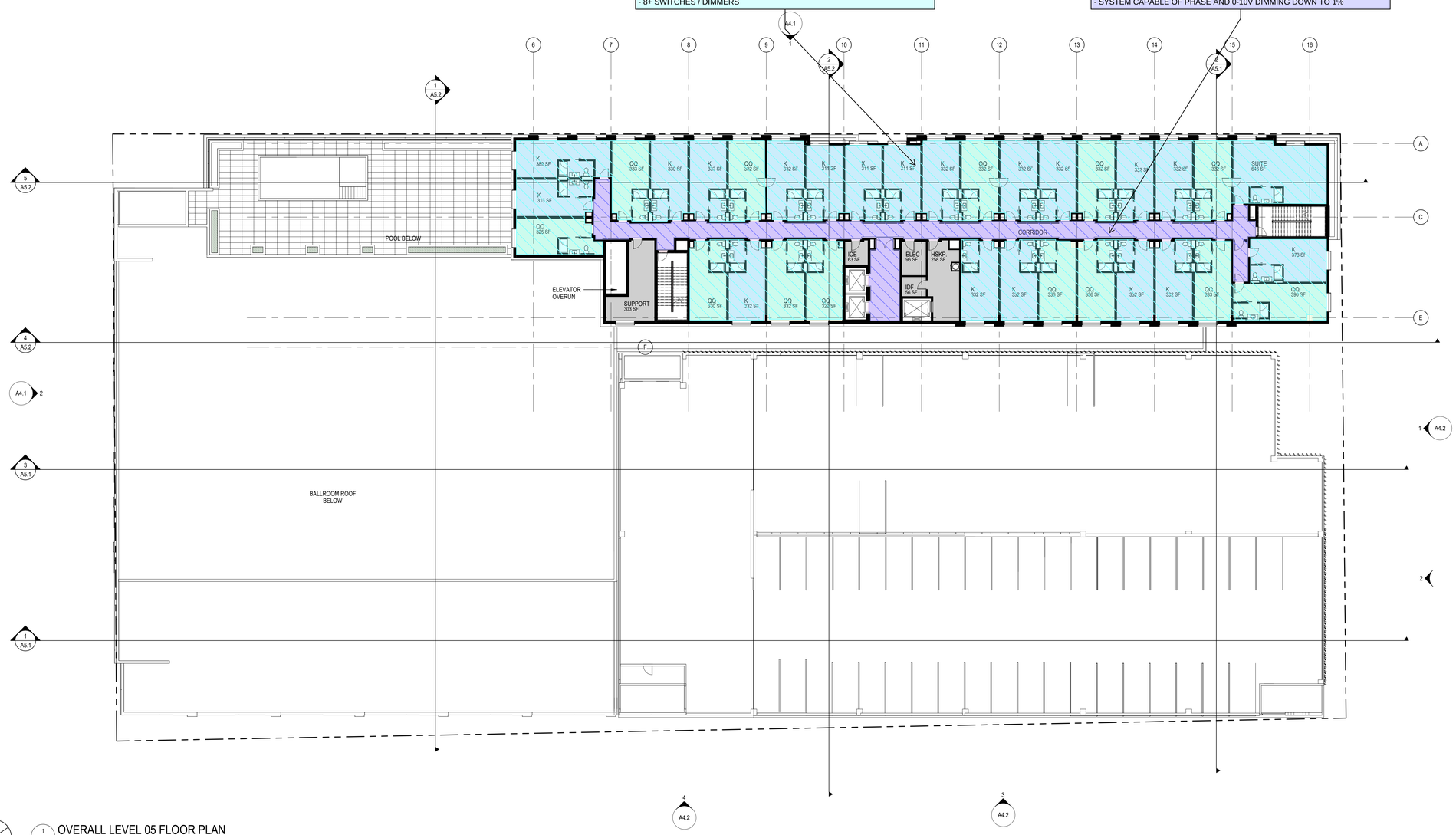
LIGHTING
- 8+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT, INTEGRATED AT BAR
- FFE - ENTRY DECO, BEDSIDE SCONCE, BEDSIDE READING, BATHROOM SURFACE MOUNT, BATHROOM SURFACE MOUNT

LIGHTING CONTROL
- LOCAL CONTROL
- OCCUPANCY INTEGRATED WITH HVAC SYSTEM FOR CODE COMPLIANCE
- 8+ SWITCHES / DIMMERS

BASIS OF DESIGN NARRATIVE
GUEST CORRIDORS (TYPICAL)

LIGHTING
- 6+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, DOOR DROP LIGHTING, ART LIGHT, ELEVATOR CORE HIGHLIGHT, ELEVATOR DROP DOWNLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 4 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%



1 A1.5 OVERALL LEVEL 05 FLOOR PLAN
SCALE: 1/16" = 1'-0"

LIGHTING BUDGETS		
Description	Lighting Cost per SF	Lighting Control Cost per SF
GUEST - CORRIDORS	10.00	2.00
GUEST - ROOMS	9.00	1.50

GENERAL NOTES:
- BUDGET NUMBERS ARE REPRESENTATIVE OF MATERIAL END USER COST
- LABOR, INSTALLATION, TAX, FREIGHT, STAGE & STORE, AND ANY ADDITIONAL LOGISTICAL COSTS ARE EXCLUDED
- AREAS NOT HIGHLIGHTED ARE EXCLUDED FROM LS SCOPE - BUDGETS TO BE PROVIDED BY OTHERS
- FFE FIXTURES EXCLUDED FROM SF BUDGETS AND TO BE INCLUDED IN A SEPARATE FFE BUDGET BY OTHERS

LEVEL 05 GUESTROOM SCHEDULE BY ROOM

ROOM NUMBER	ROOM TYPE
LEVEL 05	
A621	K
A622	QQ
A623	K
A624	K
A625	QQ
A626	K
A627	K
A628	K
A629	K
A630	K
A631	QQ
A632	K
A633	K
A634	QQ
A635	K
A636	K
A637	QQ
A638	SUITE
A640	QQ
A641	K
A642	QQ
A643	QQ
A645	K
A646	K
A647	QQ
A648	K
A649	QQ
A651	QQ
A653	K
A654	K
A655	QQ
A656	QQ
A657	K
LEVEL 05: 33	

LEVEL 05 GUESTROOM SCHEDULE BY TYPE

ROOM TYPE	COUNT
K	19
QQ	13
SUITE	1
KEYS: 33	

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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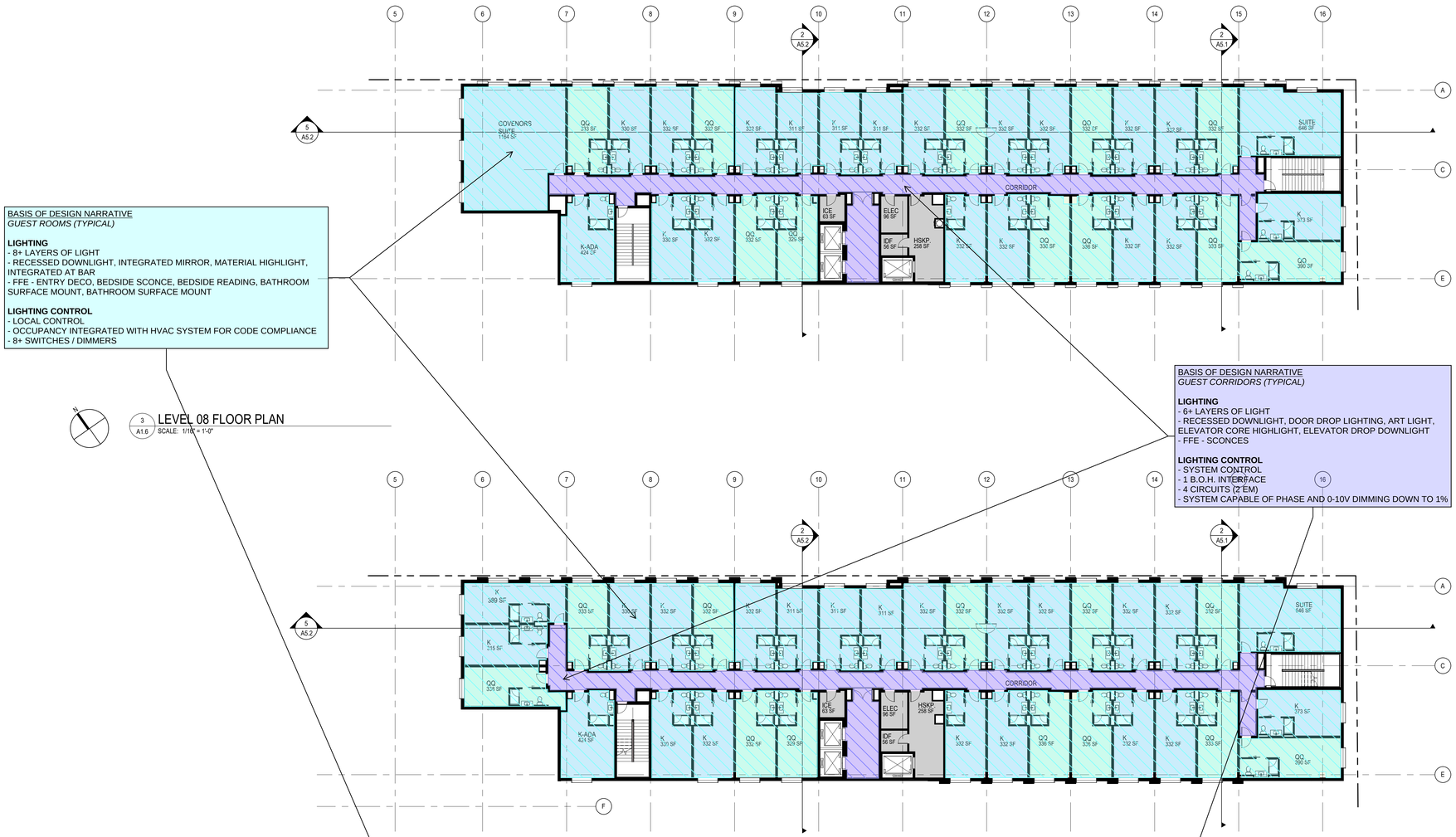
OVERALL LEVEL 05 LIGHTING PLAN

LP1.5



BASIS OF DESIGN NARRATIVE
GUEST ROOMS (TYPICAL)

LIGHTING
- 8+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, INTEGRATED MIRROR, MATERIAL HIGHLIGHT, INTEGRATED AT BAR
- FFE - ENTRY DECO, BEDSIDE SCONCE, BEDSIDE READING, BATHROOM SURFACE MOUNT, BATHROOM SURFACE MOUNT

LIGHTING CONTROL
- LOCAL CONTROL
- OCCUPANCY INTEGRATED WITH HVAC SYSTEM FOR CODE COMPLIANCE
- 8+ SWITCHES / DIMMERS

BASIS OF DESIGN NARRATIVE
GUEST CORRIDORS (TYPICAL)

LIGHTING
- 6+ LAYERS OF LIGHT
- RECESSED DOWNLIGHT, DOOR DROP LIGHTING, ART LIGHT, ELEVATOR CORE HIGHLIGHT, ELEVATOR DROP DOWNLIGHT
- FFE - SCONCES

LIGHTING CONTROL
- SYSTEM CONTROL
- 1 B.O.H. INTERFACE
- 4 CIRCUITS (2 EM)
- SYSTEM CAPABLE OF PHASE AND 0-10V DIMMING DOWN TO 1%

3 A1.6 LEVEL 08 FLOOR PLAN
SCALE: 1/16" = 1'-0"

LEVEL 08 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 08	
A404	GOVENORS SUITE
A405	QQ
A406	K
A407	K
A408	QQ
A409	K
A410	K
A411	K
A412	K
A413	K
A414	QQ
A415	K
A416	K
A417	QQ
A418	K
A419	K
A420	QQ
A421	SUITE
A425	K-ADA
A426	K
A427	K
A428	QQ
A429	QQ
A435	K
A436	QQ
A437	QQ
A438	K
A581	K
A582	K
A583	K
A584	QQ
A585	QQ
LEVEL 08: 32	

LEVEL 08 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
GOVENORS SUITE	1
K	18
K-ADA	1
QQ	11
SUITE	1
KEYS: 32	

2 A1.6 LEVEL 07 FLOOR PLAN
SCALE: 1/16" = 1'-0"

LEVEL 07 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 07	
A317	K
A319	K
A321	QQ
A322	K
A323	K
A324	QQ
A325	K
A326	K
A327	K
A328	K
A329	K
A330	QQ
A331	K
A332	K
A333	QQ
A334	K
A335	K
A336	QQ
A337	SUITE
A342	K
A343	K
A344	QQ
A345	QQ
A351	K
A352	QQ
A353	QQ
A354	QQ
A355	K
A448	QQ
A449	K-ADA
A565	K
A566	K
A579	QQ
A580	K
LEVEL 07: 34	

LEVEL 07 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	20
K-ADA	1
QQ	12
SUITE	1
KEYS: 34	

LEVEL 06 GUESTROOM SCHEDULE BY ROOM	
ROOM NUMBER	ROOM TYPE
LEVEL 06	
A277	K
A281	QQ
A282	K
A283	K
A284	QQ
A285	K
A286	K
A287	K
A288	K
A289	K
A290	QQ
A291	K
A292	K
A293	QQ
A294	K
A295	K
A296	QQ
A297	SUITE
A302	QQ
A303	K
A304	QQ
A305	QQ
A311	K
A312	K
A313	QQ
A314	K
A315	QQ
A450	K
A451	QQ
A452	K-ADA
A575	K
A576	K
A577	QQ
A578	QQ
LEVEL 06: 34	

LEVEL 06 GUESTROOM SCHEDULE BY TYPE	
ROOM TYPE	COUNT
K	19
K-ADA	1
QQ	13
SUITE	1
KEYS: 34	

LIGHTING BUDGETS		
Description	Lighting Cost per SF	Lighting Control Cost per SF
GUEST - CORRIDORS	10.00	2.00
GUEST - ROOMS	9.00	1.50

GENERAL NOTES:
- BUDGET NUMBERS ARE REPRESENTATIVE OF MATERIAL END USER COST
- LABOR, INSTALLATION, TAX, FREIGHT, STAGE & STORE, AND ANY ADDITIONAL LOGISTICAL COSTS ARE EXCLUDED
- AREAS NOT HIGHLIGHTED ARE EXCLUDED FROM LS SCOPE - BUDGETS TO BE PROVIDED BY OTHERS
- FFE FIXTURES EXCLUDED FROM SF BUDGETS AND TO BE INCLUDED IN A SEPARATE FFE BUDGET BY OTHERS

1 A1.6 LEVEL 06 FLOOR PLAN
SCALE: 1/16" = 1'-0"

GENERAL ARCHITECTURAL NOTES

REFERENCE KEYNOTES

SHEET NOTES

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SCHEMATIC DESIGN
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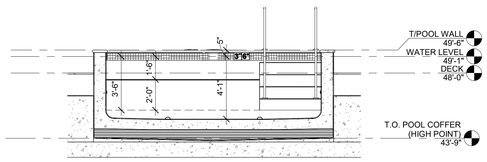
13-24114-00

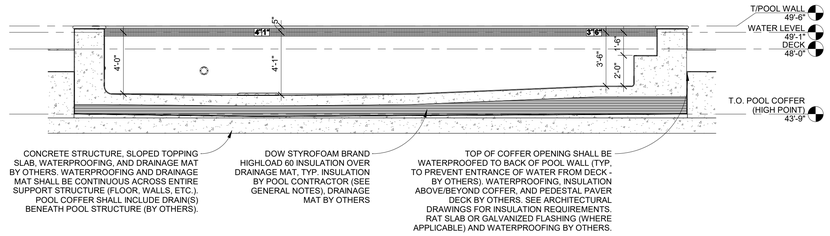
LEVEL 06, LEVEL 07 & LEVEL 08 LIGHTING PLANS

LP1.6



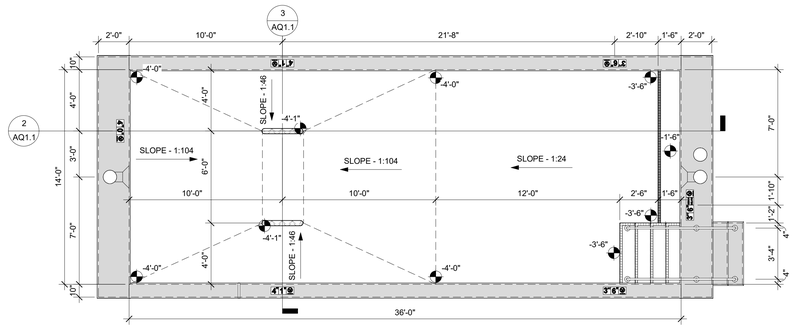
3 POOL SECTION

1/4" = 1'-0"



2 POOL SECTION

1/4" = 1'-0"



1 POOL PLAN

1/4" = 1'-0"

Drawing Notes:

1. All dimensions are to the finished face of pool/spa walls unless noted otherwise.
2. Spot elevations shown are relative to normal water level (i.e. water depth for negative spot elevations).
3. The innner surface of the pool shall be coved, rounded, or bullnnose at all joints, corners, etc. There shall be no sharp corners or projections.
4. Coordinate all equipment locations not shown on plan with Architect (i.e. life/safety equipment).

General Notes:

1. Vertical insulation behind pool wall may be standard polystyrene. All horizontal insulation beneath the pool/spa shall be 60 psi extruded polystyrene stacked to fit volume (R=5.0 min. 60 psi compressive strength @ 5% deflection, Dow styrofoam Highload 60 or equal).

Pool Data:

Size:	14'-0" X 36'-0"
Area:	504 sq. ft.
Bather Load:	33 patrons
Perimeter:	100'-0"
Depth:	0'-6" TO 5'-6"
Volume:	17,000 gallons
Turnover (code):	6.0 hours
Recirculation Rate (code):	43 gpm
Recirculation Rate (design):	50 gpm
Turnover (design):	5.67 hours
Filter:	One (1) 4.91 sf high rate sand filter
Filtration Rate:	10.2 gpm/sf
Main Drain:	Two (2) 4"x32" unblockable strip drains (0.18 sf open area each, 150 gpm floor rating each, 300 gpm total)
Main Drain Velocity:	0.31 ft/sec

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POOL PLAN & SECTIONS

AQ1.1