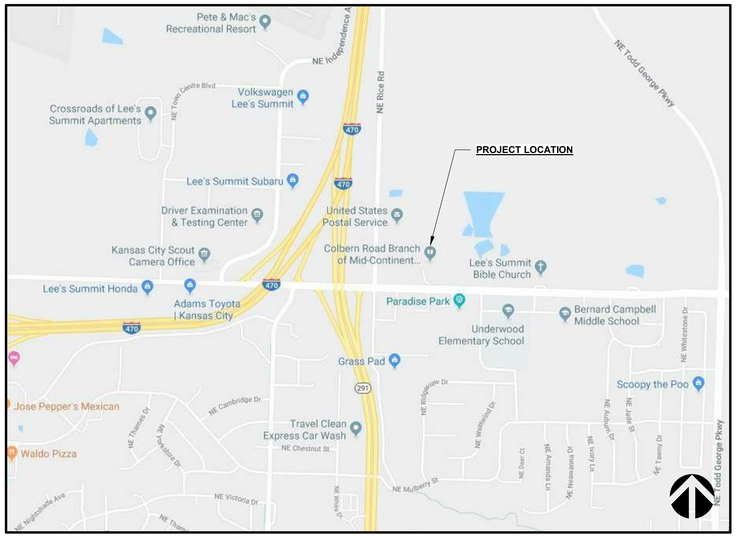

SITE LOCATION

DO NOT CONSTRUCT FROM THIS RENDERING

SAPP DESIGN ARCHITECTS

helix.

Mid-Continent Public Library
NEW BRANCH LIBRARY
Colbern Road Branch

MID-CONTINENT PUBLIC LIBRARY

WORK PACKAGE #10

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JE DUNN CONSTRUCTION
Landscape Architect of Record: ochsner hare + hare the olsson studio — Missouri State Certificate of Authority # 2005000285
Structural \ Civil Engineer of Record: olsson — Missouri State Certificate of Authority # 2004004242
MEP Engineer of Record: TRUE ENGINEERING MECHANICAL · ELECTRICAL · PLUMBING — Missouri State Certificate of Authority # E-2016000752
Associate Architect \ Interior Design: helix. — Missouri State Certificate of Authority # 000720

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JACKSON COUNTY

PACKAGE 10

Date	Revision	Revision
12-23-2019		
Project No. WP10	Revision	Revision

SET ____

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SYMBOLS LEGEND

SIM A101 SIM A101 — SECTION REFERENCE. UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER.

SIM A101 — DETAIL REFERENCE. UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER.

1 / 1 A101 1 / 1 — INTERIOR ELEVATION SYMBOL - OUTER NUMBER INDICATES ELEVATION NUMBER. INNER NUMBER INDICATES SHEET NUMBER.

1/A101 — CASEWORK ELEVATION. UPPER NUMBER INDICATES CASEWORK ELEVATION NUMBER. LOWER NUMBER INDICATES SHEET NUMBER.

ROOM NAME & NUMBER - UPPER NUMBER INDICATES ROOM NUMBER. LOWER NUMBER INDICATES FINISH NOTES OR CEILING CODE

1 — KEYNOTE SYMBOL

A — WINDOW SYMBOL

CW1 — STOREFRONT/CURTAIN WALL SYMBOL

A208d — DOOR SYMBOL

FE1 — EQUIPMENT NUMBER

P1 — WALL TYPE

0 / 0 — COLUMN GRID SYMBOLS

NORTH ARROW

MAIN FLOOR EL 100'-0" — LEVEL LINE

DATUM MARK

SPECIAL NOTES:
IF A GRAPHIC SYMBOL OR ABBREVIATION USED ON THIS SET OF DOCUMENTS IS NOT IDENTIFIED IN THIS LEGEND THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR PROPER INTERPRETATION.

MATERIALS GRAPHICS

EARTH

CRUSHED ROCK OR DRAINAGE FILL

CONCRETE

MASONRY BLOCK

FACE BRICK

STONE, SIMULATED STONE

FINISH WOOD

PLYWOOD

CONTINUOUS WOOD BLOCKING OR ROUGH CARPENTRY

NONCONTINUOUS WOOD BLOCKING

STEEL/OTHER METALS

GYPSUM BOARD

ACOUSTICAL TILE

BATT INSULATION

SPRAY FOAM INSULATION

RIGID INSULATION

ABBREVIATIONS

ABBREVIATIONS APPLY TO ARCHITECTURAL SHEETS ONLY AND ARE TYPICAL AND MAY OR MAY NOT OCCUR ON THIS PROJECT. IF AN ABBREVIATION FOUND ON DOCUMENTS IS NOT LISTED, CONTRACTOR SHALL CONTACT ARCHITECT FOR INTERPRETATION.

ABV	ABOVE
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
AC BD	ACOUSTICAL BOARD
AC PLAS	ACOUSTICAL PLASTER
AC TILE	ACOUSTICAL TILE
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADS	ADVANCED DRAINAGE SYSTEMS
AGG	AGGREGATE
A/C	AIR CONDITIONING
ALT	ALTERNATE
AL	ALUMINUM
AB	ANCHOR BOLT
ANOD	ANODIZED
ARCH	ARCHITECT(URAL)
AD	AREA DRAIN
ASPH	ASPHALT
@	AT
BSMT	BASEMENT
BRG	BEARING
BIT	BITUMINOUS
BLK(G)	BLOCK(ING)
BD	BOARD
BS	BOTH SIDES
BOT	BOTTOM
BRK	BREAK
BRZ	BRONZE
BLDG	BUILDING
B/U	BUILT UP
BBD	BULLETIN BOARD
CAB	CABINET
CPT	CARPET(ED)
CI	CAST IRON
CST	CAST STONE
CB	CATCH BASIN
CLG	CEILING
CAP	CEILING ACCESS PANEL
CHT	CEILING HEIGHT
CEM	CEMENT
CER(T)	CERAMIC(TILE)
CHBD	CHALKBOARD
CIP	CORRIGATED IRON PIPE
CIR	CIRCLE
CMT	CERAMIC MOSAIC TILE
CMP	CORRUGATED METAL PIPE
CO	CLEAMOUT
CLR	CLEAR(ANCE)
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CG	CORNER GUARD
CTR	COUNTER
CS	COUNTERSINK
CT	CURTAIN TRACK
DP	DAMPPROOFING
DTL	DETAIL
DIAG	DIAGONAL
DIAM	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DR	DOOR
DH	DOUBLE HUNG
DN	DOWN
DS	DOWNSPOUT
DT	DRAPERY TRACK
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
D	DEPTH
EA	EACH
EW	EACH WAY
ELEC	ELECTRIC(AL)
EP	ELECTRICAL PANELBOARD
EWC	ELECTRICAL WATER COOLER
EL	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST.	EXISTING
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR
FAMAB	FLUID APPLIED MEMBRANE AIR BARRIER
FIN	FINISH(ED)
FFE	FINISHED FLOOR ELEVATION
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHS	FIRE HOSE STATION
FP	FIREPROOF(ING)
FRAP	FIRE RATED ACCESS PANEL
FLASH	FLASHING
FLR(G)	FLOOR(ING)
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLUOR	FLUORESCENT
FTG	FOOTING
FND	FOUNDATION
FRA	FRESH AIR
FRP	FIBERGLASS REINFORCED POLYESTER
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS, GLAZING
GCMU	GLAZED CONCRETE MASONRY UNITS
GST	GLAZED STRUCTURAL TILE
GB	GRAB BAR
GYP	GYPSUM
GFR	GYPSUM FIBER REINFORCED
GWB	GYPSUM WALL BOARD
H	HEIGHT
HBD	HARDBOARD
HCDF	HANDICAPPED DRINKING FOUNTAIN
HDF	HANDICAPPED DRINKING FOUNTAIN
HDWR	HARDWARE
HD	HEAD
HDR	HEADER
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR COND
HGT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIBB
HWH	HOT WATER HEATER
INCL	INCLUDE(D). (ING)
ID	INSIDE DIAMETER
INSUL	INSULATE(D)
INT	INTERIOR
IWS	ICE & WATER SHIELD (BITUTHENE)
JT	JOINT
JST	JOIST
KO	KNOCKOUT
LAM	LAMINATE(D)
LAV	LAVATORY
LH	LEFT HAND
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE
LTL	LINTEL
LVR	LOUVER
LD	LOUVERED DRAPE
L	LENGTH
LP	LIGHT POLE
MH	MANHOLE
MANUF	MANUFACTURE(ER)
MATL	MATERIAL
MBC	METAL BUILDING COMPANY
MBL	MARBLE
MAS	MASONRY
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANIC(AL)
MED CAB	MEDICINE CABINET
MBR	MEMBER
MTL	METAL
MOD BIT	MODIFIED BITUMEN
MP	METAL PANEL(S)
MIN	MINIMUM
MISC	MISCELLANEOUS
M.B.	MOISTURE BARRIER
MOV	MOVABLE
MTD	MOUNTED
MULL	MULLION
MEP	MECHANICAL/ELECTRICAL/PLUMBING
NAT	NATURAL
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBS	OBSCURE
OC	ON CENTER(S)
OPNG	OPENING
OJ	OPEN-WEB JOIST
OD	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRIC
PNT	PAINT(ED)
PNL	PANEL
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTOR
PRTN	PARTITION
PVMT	PAVEMENT
PERF	PERFORATE(D)
PLAS	PLASTER
P.LAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PVC	POLYVINYL CHLORIDE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PL	PROPERTY LINE
PP	POWER POLE
QT	QUARRY TILE
RAD	RADIUS
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D). (ING)
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
RA	RETURN AIR
REV	REVISION(S). REVISED
RH	RIGHT HAND
ROW	RIGHT OF WAY
R	RISER
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RB	RUBBER BASE
RBT	RUBBER TILE
SCH	SCHEDULE
SCHED	SCHEDULE
SECT	SECTION
SSK	SERVICE SINK
SHTG	SHEATHING
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SC	SOLID CORE
SPEC	SPECIFICATION(S)
SQ	SQUARE
SV	STACK VENT
SS	STAINLESS STEEL
STD	STANDARD
STA	STATION
STL	STEEL
STOR	STORAGE
SD	STORM DRAIN
STR	STRUCTURAL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRY(ICAL)
SYN	SYNTHETIC
TB	TACKBOARD
TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPERED
TERR	TERRAZZO
TG	TEMPERED GLASS
TH	THICK(NESS)
THRS	THRESHOLD
TLT	TOILET
TPD	TOILET PAPER DISPENSER
T&G	TONGUE AND GROOVE
TOW	TOP OF WALL
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TB	TOWEL BAR
T	TREAD
TYP	TYPICAL
UNFIN.	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UGE	UNDERGROUND ELECTRIC
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VB	VINYL BASE
VT	VINYL TILE
VWC	VINYL WALL COVERING
WSCT	WAINSCOT
WH	WALL HUNG
WC	WATER CLOSET
WP	WATERPROOFING
WS	WATERSTOP
WWF	WELDED WIRE FABRIC
WDW	WINDOW
W/O	WITHOUT
WD	WOOD
W	WIDTH
W/	WITH

GENERAL NOTES

1. NOTICE: DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL THE DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MEP AND STRUCTURAL DRAWINGS FOR OVERALL SCOPE OF WORK.
2. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE MORE STRINGENT TO GOVERN. DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND CODES SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
3. THE GENERAL CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS & AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID. REFER TO SPECIFICATIONS ALSO.
4. EXISTING CONDITIONS BASED UPON INFORMATION PROVIDED BY OTHERS. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN. FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO BEGINNING CONSTRUCTION.
5. EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER, TELEPHONE LINES, POWER LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE HERE UNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER/ARCHITECT IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND INSTALLATIONS, INCLUDING SERVICE CONNECTIONS, IN ADVANCE OF EXCAVATING OR TRENCHING, BY CONTACTING THE OWNERS THEREOF AND PROSPECTING. THE CONTRACTOR SHALL USE HIS OWN INFORMATION AND NOT RELY UPON ANY INFORMATION SHOWN ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS. ANY DELAY, ADDITIONAL WORK, OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO EXISTING UNDERGROUND INSTALLATIONS SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
6. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY. VERIFY ALL DIMENSIONS BEFORE PROCEEDING. ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON THE DRAWINGS, WHICH MAY AFFECT INTENT OF DESIGN OR PROPER INCORPORATION OF ELEMENTS, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
7. SHOULD A DISCREPANCY BETWEEN CONTRACT DOCUMENTS AND SPECIFICATIONS OCCUR, CONTRACTOR SHOULD IMMEDIATELY NOTIFY ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH WORK.
8. ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF BRICK OR FACE OF EIFS. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE ± AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
9. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL & PLUMBING WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE SAID WORK INCLUDING, BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, BACKING AND COORDINATION OF FINISH WORK, WHETHER OR NOT SPECIFICALLY INDICATED ON CONTRACT DOCUMENTS.
10. SPECIAL HAZARDOUS MATERIALS NOTE: AN ENVIRONMENTAL INSPECTION HAS NOT BEEN PERFORMED ON THIS PROJECT. IF CONTRACTOR ENCOUNTERS SUSPECTED HAZARDOUS MATERIALS, WORK IN IMMEDIATE AREA TO BE SUSPENDED AND CONTRACTOR TO NOTIFY OWNER FOR MATERIALS TESTING.
11. ALL CONTRACTORS SHALL USE NON-COMBUSTIBLE BUILDING MATERIALS FOR SUBSTRATES WHERE POSSIBLE. WOOD SHOULD ONLY BE USED WHEN METAL IS NOT FEASIBLE OR PRACTICAL.
12. WHERE ITEMS/ASSEMBLIES ARE INDICATED TO BE REMOVED AND RELOCATED, THE REMOVAL INCLUDES ALL SURFACE MOUNTED BRACKETS, ANCHORAGE DEVICES AND SURFACE BLOCKING.
13. FOR WALLS THAT ARE TO BE INFILLED, PATCHED, OR A NEW WALL THAT IS AN EXTENSION OF AN EXISTING WALL: RESTORE FINISH SURFACES TO BE FLUSH WITH EXISTING SURFACES AND MATCH AND BLEND WITH THE EXISTING SURROUNDING SURFACES. IF THE PAINTING DOES NOT BLEND WITH THE SURROUNDING SURFACES THEN THE CONTRACTOR IS TO PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.
14. GENERAL CONTRACTOR SHALL COORDINATE AND PROVIDE NECESSARY TEMPORARY ENCLOSURE AND DUST CONTROL MEASURES TO MAINTAIN A CLEAN AND SECURE WORK ENVIRONMENT AND AREAS ADJACENT TO CONSTRUCTION ZONES. PROVIDE NECESSARY WEATHER PROTECTION DURING DEMOLITION AND CONSTRUCTION WORK.
15. PROVIDE TEMPORARY SHORING OR BRACING OF EXISTING STRUCTURAL SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION.
16. ANY SURFACES THAT BECOME EXPOSED DUE TO REMOVING OF EQUIPMENT, CEILING, OR WALLS ARE TO BE REFINISHED AND PAINTED TO MATCH AND BLEND WITH SURROUNDING SURFACES.
17. PROVIDE SOLID BLOCKING AS REQUIRED TO INSTALL EQUIPMENT, MILLWORK, ETC.
18. SEE SHEET G200 FOR RATED WALLS, JOINTS AND PENETRATIONS AT ALL RATED WALLS SHALL BE SEALED AND PROTECTED PER SPECIFICATIONS, U.L. TESTED ASSEMBLIES AND CODE REQUIREMENTS.
19. METAL STUDS: SEE STRUCTURAL FOR DESIGN CRITERIA AND NOTES FOR GAUGE AND SPACING.
20. SEE MEP SHEETS FOR LOCATIONS OF DUCTWORK AND OTHER MEP ITEMS PENETRATING EXISTING WALLS. SEE STRUCTURAL SHEETS FOR THE STRUCTURAL REQUIREMENTS AT NEW WALL PENETRATIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PENETRATIONS AND COORDINATING THE WALL PENETRATIONS BETWEEN THE DIFFERENT TRADES.

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SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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NEW BRANCH LIBRARY

Colbern Road Branch

1000 NE COLBERN ROAD
LEE'S SUMMIT, MISSOURI 64086
JACKSON COUNTY

Architect of Record

STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

G100

SYMBOLS & ABBREVIATIONS

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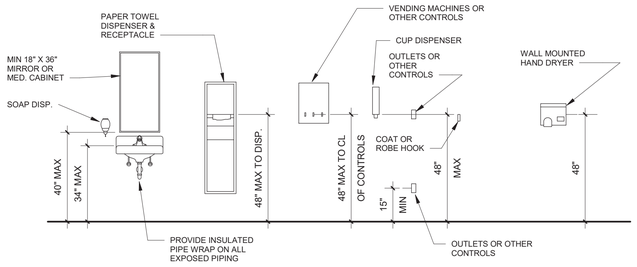
GENERAL NOTES

1. THESE FIXTURE AND ACCESSORY MOUNTING DETAILS & REQUIREMENTS ARE TYPICAL AND APPLY TO REQUIRED ACCESSIBLE INSTALLATIONS ONLY. REFER TO PLANS FOR LOCATIONS AND TYPES OF LAYOUTS. EQUIPMENT & DETAILS SHOWN THIS SHEET MAY OR MAY NOT APPEAR ON THIS PROJECT. IF A ROOM IS IN QUESTION AS TO BEING A REQUIRED ACCESSIBLE ROOM OR A REQUIRED DETAIL THIS PROJECT, CONTACT ARCHITECT FOR RESOLUTION.
2. PROVIDE IN ALL LOCATIONS OF REQUIRED ACCESSORIES, ADEQUATE SOLID BLOCKING CAPABLE OF WITHSTANDING 250 LB. FORCE (SHEAR & BENDING). GRAB BARS SHALL NOT ROTATE. FASTENERS SHALL BE OF A TYPE TO WITHSTAND REQUIRED FORCE AND TYPED FOR TYPE OF WALL CONSTRUCTION.
3. ALL EXTERIOR RAMPS SHALL HAVE A NON-SKID FINISH AS SPECIFIED. ALL INTERIOR RAMPS SHALL HAVE FLOOR MATERIAL OF NON-SKID MATERIAL (SEE SPECIFICATIONS). IF NO FINISH IS INDICATED ON DRAWINGS, PROVIDE RUBBER RADIAL TILE ON FINISH FLOOR SURFACE OF INTERIOR RAMPS.
4. ANY METAL FLOOR GRATINGS OR DRAINAGE GRATINGS IN AN ACCESSIBLE PATH SHALL HAVE SPACES NO GREATER THAN 1/2" WIDE IN ONE DIRECTION. LONG DIMENSION SHALL BE PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
5. ACCESSIBLE DOORS: SWEEP PERIOD OF DOOR CLOSERS ON ACCESSIBLE DOORS SHALL BE ADJUSTED SO THAT FROM OPEN POSITION OF 70°, DOOR WILL TAKE A MINIMUM OF 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH. DOORS SHALL REQUIRE NO MORE THAN 5 LB. OF FORCE TO OPEN. ADJUST CLOSERS ACCORDINGLY.
6. SEE DOOR SCHEDULE FOR MINIMUM REQUIRED CLEAR AREA AT LATCH SIDE OF DOOR.
7. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT WITH MAX. 1:2 SLOPE EACH SIDE AND 1/4" MAX VERTICAL LIP AT EDGE.

MISC. ACCESSIBLE MOUNTING HEIGHTS

FIRE EXTINGUISHERS:	48" MAX TO CENTERLINE OF CONTROLS
VISUAL DISPLAY BOARDS:	VERIFY WITH OWNER
WALL MOUNTED TELEPHONES:	48" MAX TO TOP OF KEYPAD
CLOSET/SHELF ROD:	60" TO TOP OF NON-ACCESSIBLE SHELF 48" TO TOP OF ACCESSIBLE SHELF
KNOX BOX:	5'-0" MAX, INSTALL PER FIRE DEPARTMENT REQUIREMENTS. COORDINATE LOCATION AND HEIGHT WITH FIRE DEPARTMENT.

CHILDREN'S ADA REQUIREMENTS (ADULT SHOWN BELOW)
Accessible Elements Reach Ranges for control height/operable parts shall be 20" to 36" for ages 3 & 4; 18" to 40" for ages 5 to 8; and 16" to 44" for ages 9 to 12.



9 MISC. ACCESSIBLE ACCESSORIES
3/8" = 1'-0"

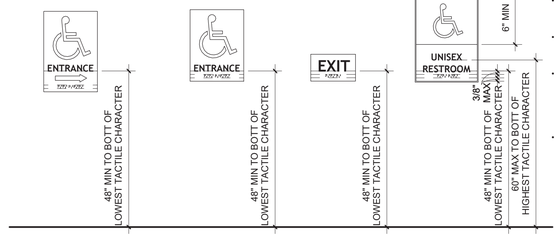
DIRECTIONAL SIGNAGE REQUIRED AT NON-ACCESSIBLE EXITS, INTERIOR AND EXTERIOR, INDICATING ROUTE TO NEAREST ACCESSIBLE ELEMENT

ENTRANCE SIGNAGE REQUIRED AT ACCESSIBLE EXTERIOR ENTRANCES

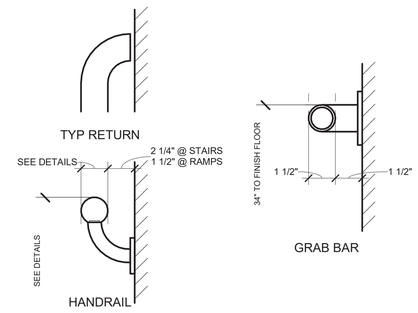
EXIT SIGNAGE REQUIRED ADJACENT TO ACCESSIBLE EXIT PASSAGEWAY AND DISCHARGE

NO LETTERS OR BRAILLE CHARACTERS SHALL BE LOCATED IN PICTOGRAM FIELD

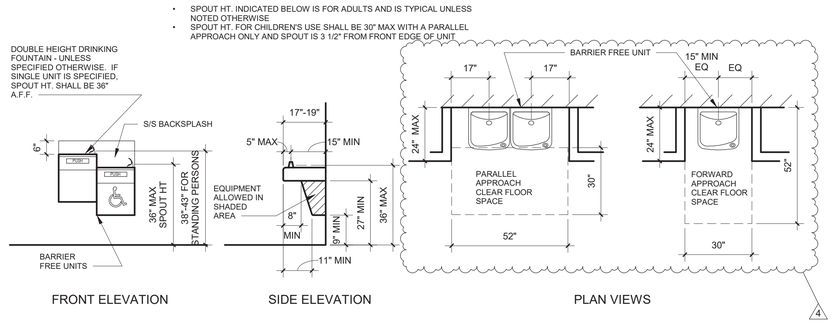
SIGNAGE LOCATION REQUIRMENTS
- WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE.
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.
- WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.
- SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND TE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
- EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.



8 INTERIOR SIGNAGE DETAIL
1 1/2" = 1'-0"



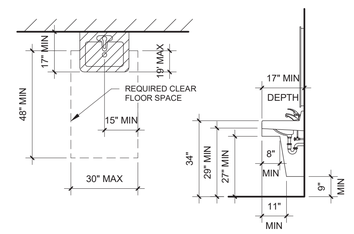
7 HANDRAILS/GRAB BARS
3" = 1'-0"



- SPOUT HT. INDICATED BELOW IS FOR ADULTS AND IS TYPICAL UNLESS NOTED OTHERWISE
- SPOUT HT. FOR CHILDREN'S USE SHALL BE 30" MAX WITH A PARALLEL APPROACH ONLY AND SPOUT IS 3 1/2" FROM FRONT EDGE OF UNIT

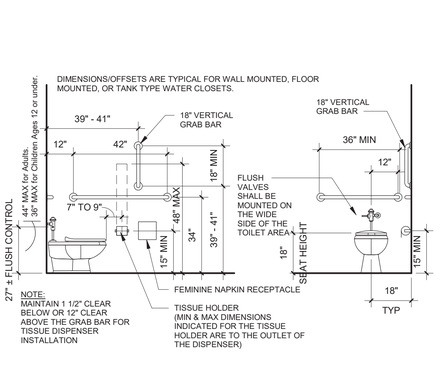
6 ACCESSIBLE DRINKING FOUNTAIN
3/8" = 1'-0"

CHILDREN'S ADA REQUIREMENTS (ADULT SHOWN BELOW)
1. Lavatory rim, counter height shall be 31" MAX for ages 6-12.
2. Knee clearance below sink shall be 24" MIN where counter height is 31" MAX for ages 6-12

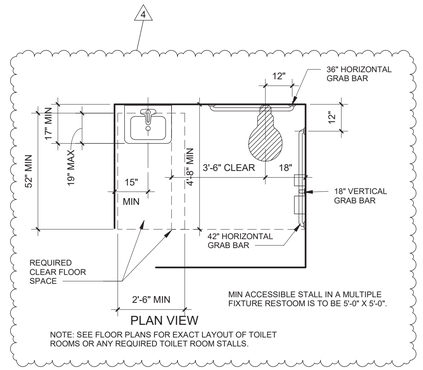


NOTE: COUNTERTOP MOUNTED LAVATORIES ARE TO BE MOUNTED WITH SAME CLEARANCES, REQUIREMENTS, ETC.

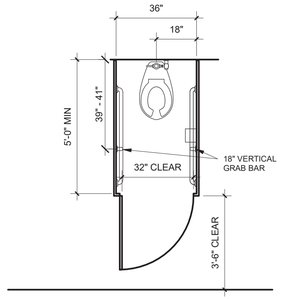
5 ACCESSIBLE LAVATORY
3/8" = 1'-0"

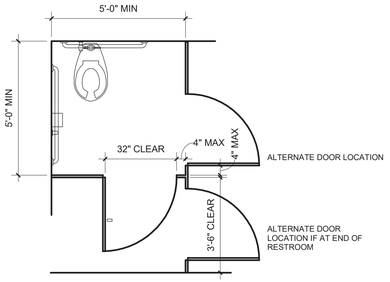


4 ACCESSIBLE WATER CLOSETS
3/8" = 1'-0"



3 AMBULATORY COMPARTMENT
3/8" = 1'-0"

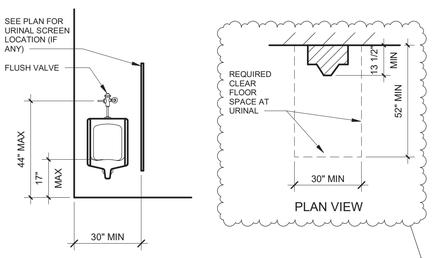




SEE ACCESSIBLE WATER CLOSET REQUIREMENTS FOR FURTHER INFORMATION ON WATER CLOSET LOCATION, GRAB BARS, ACCESSORY MOUNTING HTS, ETC.

2 ACCESSIBLE COMPARTMENT
3/8" = 1'-0"

NOTE:
FLUSH CONTROL HT. shall be 36" MAX for ages 3 and 4; 40" MAX for ages 5 to 8; and 44" for ages 9 to Adult.



NOTE: A MIN OF ONE URINAL PER EACH MEN'S ACCESSIBLE RESTROOM SHALL BE MOUNTED AT 17" HEIGHT IF MORE THAN ONE URINAL IS PROVIDED.

1 ACCESSIBLE URINAL
3/8" = 1'-0"

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In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
NEW BRANCH LIBRARY

Colbern Road Branch

1000 NE COLBERN ROAD
LEE'S SUMMIT, MISSOURI 64086
JACKSON COUNTY

Architect of Record

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

G101

STANDARD ACCESSIBLITY DETAILS

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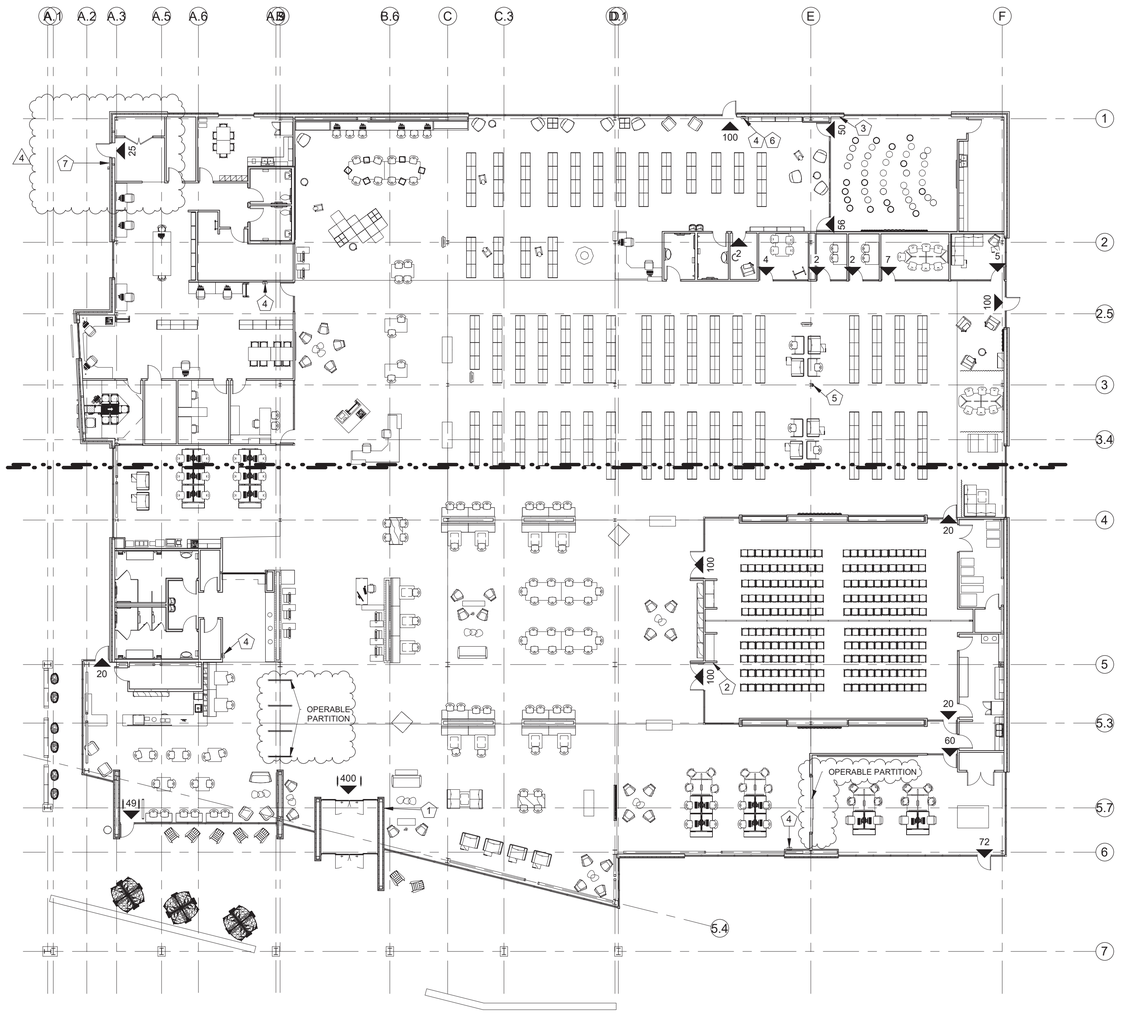

1 OVERALL CODE PLAN
1/16" = 1'-0"

KEYNOTES

1	PROVIDE SIGN READING "MAXIMUM BUILDING OCCUPANT LOAD OF 769"
2	PROVIDE SIGN READING "MAXIMUM ROOM OCCUPANCY 240"
3	PROVIDE SIGN READING "MAXIMUM ROOM OCCUPANCY 106"
4	FIRE EXTINGUISHER, TYPE 3A:40B:C, IN SEMI-RECESSED CABINET
5	FIRE EXTINGUISHER, TYPE 3A:40B:C, MOUNTED TO COLUMN
6	COORDINATE PLACEMENT OF F.E. CABINET WITH LAYOUT OF WALL SHELVING
7	SEMI-RECESSED KNOX BOX PER LOCAL FIRE MARSHAL REQUIREMENTS

CODE SUMMARY

PROJECT IDENTIFICATION: NEW COLBERN ROAD BRANCH
MID-CONTINENT PUBLIC LIBRARY
LEE'S SUMMIT, MISSOURI
REPRESENTATIVE - JAKE WIMMER

CODE: 2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRIC CODE
2018 INTERNATIONAL FIRE CODE
2017 ICC/ANSI A117.1

OCCUPANCY: A-3 - ASSEMBLY

PROPOSED USE: LIBRARY

CONSTRUCTION TYPE: TYPE 2B - SINGLE STORY

BUILDING HEIGHT: ALLOWABLE: 55', 2-STORY
ACTUAL: 25', 1-STORY

ALLOWABLE AREA: (TABLE 506.2 & SECTION 506)

ALLOWABLE AREA A-3 S-1 = 38,000 SF

GROSS BUILDING AREA:
ACTUAL AREA: = 33,527 SF

AUTOMATIC SPRINKLER SYSTEM:
BUILDING IS TO BE SPRINKLED

FIRE ALARM & DETECTION SYSTEMS: REQUIRED PER SECTION 907

DESIGN OCCUPANT LOAD (SECT 1004):
TABLE 1004.5

OCCUPANT LOAD OF COMMUNITY ROOM	= 240 (POSTED MAX OCC. SIGNS)
OCCUPANT LOAD OF STORY HOUR (738 S.F.) (1 PER 7 S.F. NET)	= 106 (POSTED MAX OCC. SIGN)
TOTAL OCCUPANT LOAD OF MEETING ROOMS (1 PER 50 S.F. NET)	= 20 OCCUPANTS
OCCUPANT LOAD OF STACK AREA (7192 S.F.) (1 PER 100 S.F. GROSS)	= 72 OCCUPANTS
OCCUPANT LOAD OF SEATING AREA (11,388 S.F.) (1 PER 50 S.F. GROSS)	= 222 OCCUPANTS
OCCUPANT LOAD OF CAFE AREA (1034 S.F.) (1 PER 15 S.F. NET)	= 69 OCCUPANTS
SUBTOTAL OCCUPANT LOAD OF PUBLIC AREAS	**= 729 OCCUPANTS**
OCCUPANT LOAD OF STAFF AREA 137 (1 PER 150 S.F. GROSS) + 6 FOR ADDITIONAL SEATING	= 12 OCCUPANTS
OCCUPANT LOAD OF ADMIN AREAS (2801 S.F.) (1 PER 150 S.F. GROSS) + 6 FOR OFFICES	= 25 OCCUPANTS
TOTAL OCCUPANT LOAD OF LIBRARY	**= 766 OCCUPANTS**

EGRESS SIZING: PER SECTION 1005 IN A SPRINKLED BUILDING

DOORS (.15 INCHES PER OCCUPANT)
SINGLE DOOR (34" CLEAR) = 226 OCCUPANT EGRESS CAPACITY
SOUBLE DOORS (68" CLEAR) = 453 OCCUPANT EGRESS CAPATICY

EXIT SEPARATION:
MINIMUM SEPARATION OF EXITS IS 1/3 OF THE MAXIMUM DIAGONAL OF THE AREA OF FLOOR PER SECTION 1007.1.1

MAX. TRAVEL DISTANCE:
250 LF, PER TABLE 1017.2

MIN NUMBER OF EXITS:
THREE EXITS ARE REQUIRED FOR OCCUPANT LOADS BETWEEN 501 AND 1000 PER SECTION 1006.2.1.1

PLUMBING FIXTURES:

WATER CLOSETS: (1 PER 125 MALE, 1 PER 65 FEMALE)
REQUIRED 3 FOR MEN, 6 FOR WOMEN
PROVIDED 2 WC & 2 URINAL FOR MEN, 6 FOR WOMEN

LAVATORIES: (1 PER 200)
REQUIRED 4
PROVIDED 8

DRINKING FOUNTAINS (1 PER 500)
REQUIRED 2
PROVIDED 2

SERVICE SINK
REQUIRED 1
PROVIDED 1

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helix.
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Architect of Record

STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
3-13-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
G200
OVERALL CODE SUMMARY

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GENERAL NOTES:

1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO FULFILL THE PLANS IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES.
5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS *OF THE AMERICAN PUBLIC WORKS ASSOCIATION – KANSAS CITY METROPOLITAN CHAPTER (APWA-KC) AND* THE CITY OF LEE'S SUMMIT, MO, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
7. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES.
8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
9. THE CONTRACTOR SHALL LIMIT THE REMOVAL OF TREES TO THE LIMITS OF DEMOLITION SHOWN ON THE DEMOLITION PLAN.
10. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
11. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
12. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS.
14. ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
15. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
16. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS PROVIDED.
17. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
18. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
19. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.
20. THE CONTOUR LINES SHOWN ARE FOR MASS GRADING PURPOSES.
21. EXISTING CONTOURS REPRESENT MASS GRADING ELEVATIONS.
22. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS OTHERWISE SHOWN BY CONTOURS OR SPOT ELEVATIONS.
23. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE IN THE BORROW AREA.
24. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID.
25. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
26. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON ASSOCIATES (OA), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OA, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OA AND THE ELECTRONIC FILES TRANSFERRED HEREWITH, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OA SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OA, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OA OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OA.
27. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.
28. GENERAL CONSTRUCTION NOTE REGARDING SEQUENCING OF EROSION CONTROL – ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN, EXCEPT THAT SILT FENCE WHICH IS TO BE PLACED ALONG THE BACK OF CURB FOR PROTECTION OF THE STREET. SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR UNTIL ALL UTILITIES ARE IN PLACE. THE SILT FENCE THAT IS PLACED ALONG THE BACK OF THE CURB OR RIGHT -OF-WAY WILL BE INSTALLED IMMEDIATELY AFTER THE CURB IS CONSTRUCTED. EROSION AND SEDIMENTATION CONTROLS ARE TEMPORARY AND MUST BE REMOVED BY THE CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND THE DISTURBED AREA IS AT LEAST 70% PERMANENTLY VEGETATED.
29. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGNAGE AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF *THE APWA-KC,* CITY OF LEE'S SUMMIT ADA STANDARDS, *AND* SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT.
30. ALL WATER LINES SHALL BE INSTALLED PER THE LATEST STANDARDS AND SPECIFICATIONS *OF THE APWA-KC AND* THE CITY OF LEE'S SUMMIT, MO. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
31. ALL WATER LINES SHALL BE INSTALLED PER CITY STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
32. ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, SHALL MEET KCMMB STANDARDS AND SPECIFICATIONS, AND SHALL BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT.
33. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
34. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):
    A. CONTROL JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET AND TOOLED TO 1/3 THE SLAB THICKNESS.
    B. CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
    C. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NONEXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER-BOARD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.
    D. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.
34. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SCOPE WITH SERVICE PROVIDER.
35. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.

GENERAL UTILITY NOTES

1. THE SIZE AND LOCATION OF SERVICES SHALL BE VERIFIED WITH THE ARCHITECTURAL AND MEP PLANS PRIOR TO CONSTRUCTION. IF DISCREPANCIES EXIST, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
2. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVING UNDER PAVING AREAS WHERE NECESSARY.
3. INSTALL ALL PIPE LENGTHS, BENDS AND FITTINGS NECESSARY FOR UTILITY CONNECTIONS.
4. CONTRACTOR SHALL VERIFY ALL CROSSING ELEVATIONS AND LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OF STORM LINES AND ALL UTILITY SERVICE CONNECTIONS. ANY CONFLICTS SHALL BE MADE KNOWN TO THE ENGINEER AND RESOLVED PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO VERIFY FIRE SERVICE SIZE WITH SPRINKLER DESIGNER/CONTRACTOR PRIOR TO CONSTRUCTION AND INSTALLATION OF METER/BACKFLOW PREVENTER AND SERVICES. NOTIFY ENGINEER OF ALTERATIONS.
6. CONTRACTOR RESPONSIBLE FOR PAYING ALL TAP AND CONNECTION FEES AND SHALL CONTRACT AND PAY FOR ANY REQUIRED SUB CONTRACTORS BY UTILITY COMPANIES.
7. REFERENCE MEP PLANS FOR BUILDING CONNECTIONS.
8. CONTRACTOR TO REPAIR ALL AREA DAMAGED BY CONSTRUCTION TO EXISTING CONDITIONS OR BETTER.
9. BACK FLOW PREVENTION TO BE PROVIDED INSIDE BUILDING. SEE MEP AND ARCHITECTURAL PLANS FOR DETAILS.
10. LOCATION FOR POWER SHOWN IS APPROXIMATE AND SUBJECT TO CHANGE. CONTRACTOR TO VERIFY FINAL LOCATION AND DESIGN WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.
11. CONTRACTOR TO COORDINATE LIGHT POLE LOCATIONS WITH OWNER, STORM SEWER INSTALLATION AND UTILITY COMPANIES PRIOR TO INSTALLATION TO AVOID CONFLICTS. NOTIFY ENGINEER AND ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
12. WATER METER CANNOT BE INSTALLED IN THE BUILDING.
13. CONTRACTOR SHALL COORDINATE CABLE/FIBER OPTIC CONDUIT AND SERVICE INSTALLATION WITH UTILITY COMPANY.
14. ALL TAPS AND CONNECTIONS FOR FIRE AND DOMESTIC WATER SERVICES ARE TO BE IN ACCORDANCE WITH THE CITY OF BLUE SPRINGS STANDARDS AND SPECIFICATIONS.
15. CONTRACTOR TO COORDINATE POWER ROUTING TO MONUMENT SIGNS NOT SHOWN ON PLANS.
16. ALL ROOF DRAIN AND DOWNSPOUT HEADER PIPES SHALL BE 12" HDPE PIPE AND INSTALLED AT 1.00% MINIMUM SLOPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN. ALL BENDS AND FITTINGS NEEDED TO BUILD ROUTING AS SHOWN SHALL BE INCLUDED IN BID.
17. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS TO COMPLETE ROOF DRAIN AND DOWNSPOUT CONNECTIONS TO BUILDINGS. ALL ROOF DRAIN AND DOWNSPOUT CONNECTIONS / FITTINGS, INCLUDING BUT NOT LIMITED TO BENDS AND TEES, SHALL BE MADE OF HDPE PIPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN.

THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

CIVIL DRAWING INDEX

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C2.0 DEMOLITION PLAN
C3.0 FINAL DEVELOPMENT PLAN
C4.0 SITE DIMENSION PLAN
C4.1 SITE DIMENSION PLAN
C5.0 GRADING PLAN
C5.1 GRADING DETAIL
C5.2 GRADING DETAIL
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C6.0 UTILITY PLAN
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C8.1 DRAINAGE CALCULATIONS
C9.0 EROSION CONTROL PLAN - PRE CONSTRUCTION
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C10.6 STANDARD DETAILS

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Mid-Continent Public Library
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1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date

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Drawing No.
C1.0
GENERAL NOTES

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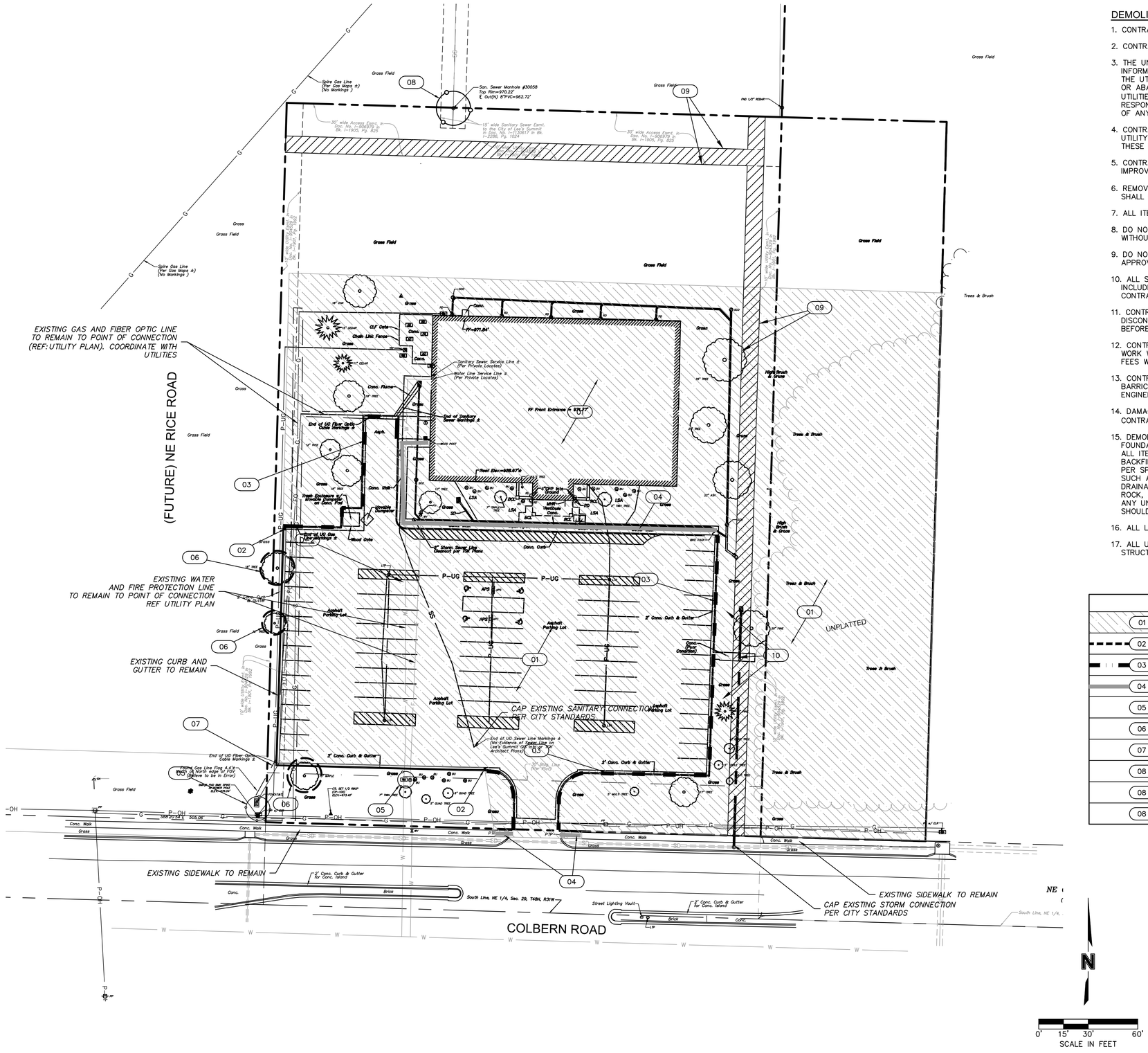

DEMOLITION NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
2. CONTRACTOR TO COMPLETE DEMOLITION PER THE INTENT OF THESE PLANS.
3. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THIS INCLUDES PRIVATE AND PUBLIC UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISSOURI ONE CALL AT 1-800-344-7483 IN ADVANCE OF ANY EXCAVATION TO COORDINATE UTILITY LOCATIONS.
4. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR SHOWN ON THESE PLANS.
5. CONTRACTOR TO REMOVE ALL TREES AND BRUSH FOR INSTALLATION OF IMPROVEMENTS.
6. REMOVAL AND DISPOSAL OF BUSHES AND TREES SMALLER THAN 12" IN DIAMETER SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR CLEARING AND GRUBBING.
7. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
8. DO NOT DISRUPT UTILITY SERVICE TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
9. DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
10. ALL SIDEWALK AND PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING PAVEMENT. CONTRACTOR SHALL SAW CUT WHERE NECESSARY.
11. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DISCONNECTION, DEMOLITION, AND REMOVAL OF SERVICE LINES. CAP ALL LINES BEFORE PROCEEDING WITH WORK ON THIS CONTRACT.
12. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES WORK FORCE AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES.
13. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND AS APPROVED BY THE ENGINEER AND THE CITY.
14. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
15. DEMOLITION OF BUILDINGS SHALL INCLUDE THE BUILDING STRUCTURE, PAD, FOOTINGS, FOUNDATIONS, BASEMENT WALLS, BASEMENT FLOORS, TRUCK DOCKS, STEPS, DECKS, ALL ITEMS REMAINING IN BUILDING, ALL BUILDING UTILITY SERVICES, SIDEWALKS, AND BACKFILLING AND RESTORING REMAINING EXCAVATIONS, BASEMENTS AND TRENCHES PER SPECIFICATIONS. ALL REMOVALS SHALL INCLUDE BUT NOT BE LIMITED TO ITEMS SUCH AS BUILDING FOOTINGS, SUBSURFACE STRUCTURES, SURFACE STRUCTURES, DRAINAGE STRUCTURES, PIPES, PAVEMENT OF ALL TYPES, CURB & GUTTER, SIDEWALK, ROCK, ABANDONED UTILITIES AS DIRECTED BY THE ENGINEERS, TREES, TREE ROOTS, ANY UNKNOWN MATERIALS, AND UNSUITABLE SUBGRADE MATERIALS. THE SITE SHOULD BE CLEARED FOR THE PROPOSED IMPROVEMENTS PER CITY REQUIREMENTS.
16. ALL LIGHT POLE DEMOLITION SHALL INCLUDE FIXTURES, BASES AND WIRING.
17. ALL UTILITY DEMOLITION SHALL INCLUDE METERS, MANHOLES AND OTHER STRUCTURES ASSOCIATED WITH THE UTILITY SERVICE LINE.

KEY NOTE LEGEND

01	REMOVE EXISTING INFRASTRUCTURE, BUILDINGS, VEGETATION AND PAVEMENT FOR THE PURPOSE OF PROJECT CONSTRUCTION.
02	SAWCUT EXISTING PAVEMENT
03	REMOVE EXISTING CURB & GUTTER
04	REMOVE EXISTING SIDEWALK
05	PROTECT EXISTING UTILITY EQUIPMENT/ MANHOLE
06	INSTALL TREE PROTECTION. SEE DETAIL ON C6.5
07	COORDINATE DEMOLITION WITH POWER COMPANY
08	PROTECT EXISTING SANITARY SEWER TO REMAIN
08	VACATE EXISTING EASEMENT
08	REMOVE EXISTING STORM SEWER

LEGEND

PROPERTY LINE

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Mid-Continent Public Library
PRELIMINARY DEVELOPMENT PLANS FOR
COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MISSOURI 64086
JACKSON COUNTY

PACKAGE **10**

Engineer of Record

STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2018010505
02-10-2020
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

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02.10.2020

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Drawing No.

C2.0
DEMOLITION PLAN

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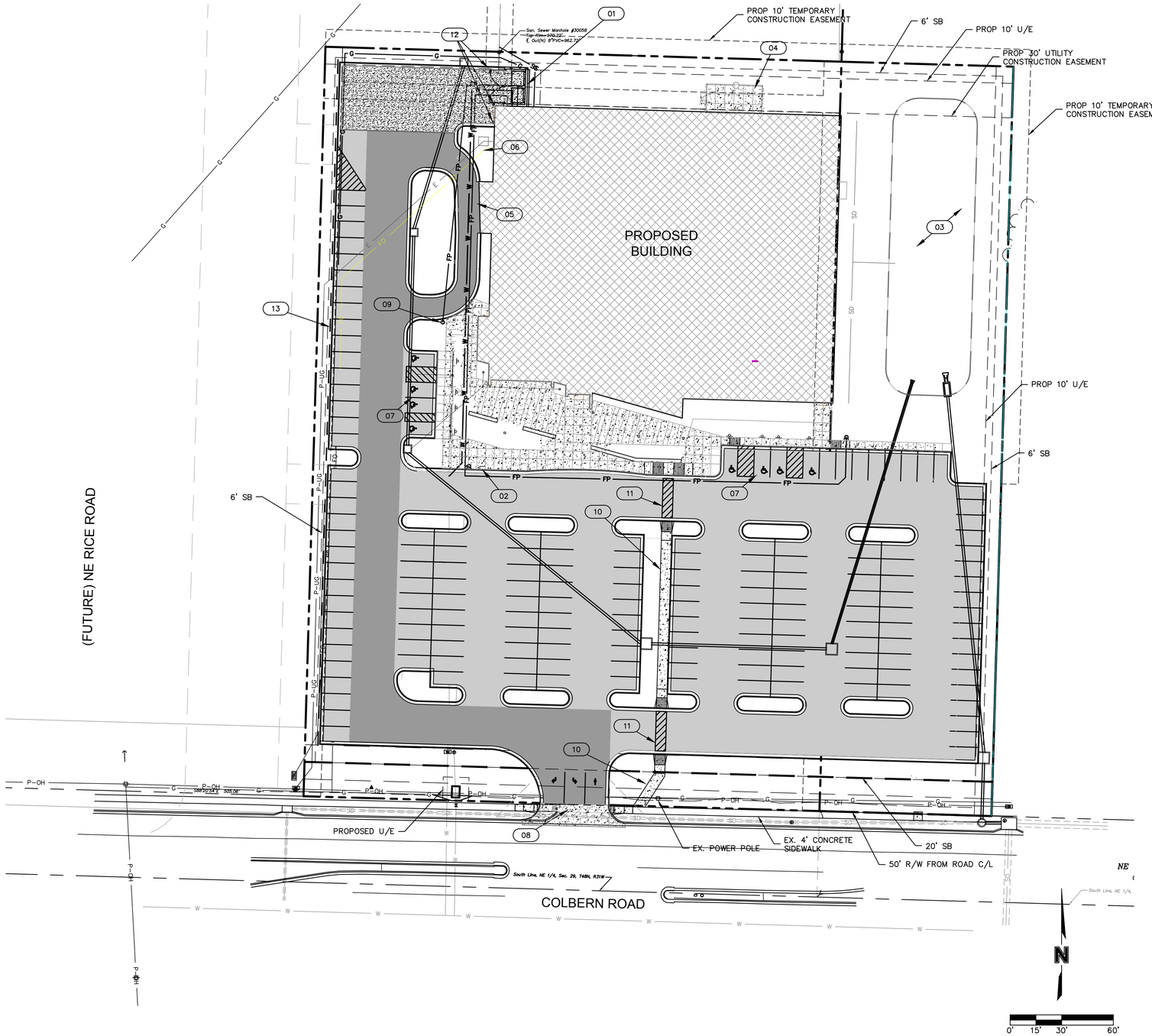

SITE DATA			
ZONING & SITE AREA			
PROPOSED USE:	PUBLIC LIBRARY		
SITE AREA		ZONING	
LOT 2 (AS DECRIBED):	4.00 ACRES (174,237 SF)	CP-2	
IMPERVIOUS:	2.58 ACRES (112,384 SF) (64%)		
PERVIOUS:	1.42 ACRES (61,855 SF) (36%)		
FAR (0.55 MAX):	0.15		
BUILDING AREA			
BUILDING TYPE	# STORIES	SQUARE FOOTAGE	
BUILDING	1	34,030 SF	
PARKING			
USE	REQUIRED	PROVIDED	
LIBRARY	4 PER 1000 SF = 136	163	
ADA	4 (PER CITY TABLE)	8	
TOTAL	136	171 (INCLUDING ADA)	

NOTE:
ACCORDING TO MDNR STATE OIL & GAS COUNSEL THERE ARE NO OIL AND GAS WELLS LOCATED WITHIN OR ADJACENT TO THE PROPERTY.

THERE ARE NO FEMA DELINEATED FLOODPLAINS ON THE PROPERTY.

LEGEND

- PROPERTY LINES
- RIGHT-OF-WAY LINES
- LOT LINES
- ROAD CENTERLINE
- EASEMENT LINES
- SETBACK LINES
- EXISTING GRADE CONTOURS
- PROPOSED GRADE CONTOURS
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBER OPTIC
- GAS LINE
- WATER LINE
- FIRE PROTECTION LINE
- STORM SEWER LINE
- SANITARY SEWER LINE
- ACCESSIBLE SIDEWALK RAMP
- CONCRETE CURB & GUTTER TYPE "B" RE: DETAILS
- CONCRETE CURB & GUTTER TYPE "B-DRY" RE: DETAILS
- PROPOSED CONCRETE SIDEWALK
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT
- PROPOSED LIGHT DUTY ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED DETENTION BASIN

KEYNOTES: (XX)

01 TRASH ENCLOSURE - CMU WALLS WITH BRICK FACING AND STEEL DOORS
02 BOOK DROP
03 EXTEND DRY DETENTION BASIN
04 CONCRETE PATIO
05 DRIVE-THRU WINDOW
06 POWER TRANSFORMER
07 ADA ACCESSIBLE SIGNAGE AND STRIPING
08 WIDENED COMMERCIAL ENTRANCE (40') WITH RECONSTRUCTED ADA RAMP
09 REMOTE FIRE DEPARTMENT CONNECTION
10 6' SIDEWALK
11 CROSSWALK STRIPING
12 BOLLARD
13 CONSTUCT 6" EARTHEN BERM TO DIVERT OFF DRAINAGE FROM THE EAST

LEGAL DESCRIPTION

All of Lot 1, Rice Acres, a subdivision in the City of Lee's Summit, JacksonCounty,Missouri, together with all that part of an unplatted trac t of land, all lying in the Northeast Quarter of Section 29, Township 48 North, Range 31 West, described by Timothy Blair Wiswell, MO-PLS 2009000067, as follows:

COMMENCING at the Southeast corner of the Northeast Quarter of Section 29, Township 48 North, Range 31 West; thence North 88 degrees 28 minutes 52 seconds West, on the South line of said Northeast Quarter, a distance of 755.18 feet to a point on the Southerly extension of the West line of Lot 1, Rice Acres, a subdivision in the City of Lee's Summit, Jackson County, Missouri; thence North 01 degree 23 minutes 04 seconds East, departing said South line, on said Southerly extension, a distance of 55.66 feet to the Southwest corner of said Lot 1, the POINT OF BEGINNING; thence North 01 degree 23 minutes 04 seconds East, on said West line, a distance of 436.21 feet to the Northwest corner of said Lot 1; thence South 88 degrees 38 minutes 41 seconds East, on the North line of said Lot 1 and its Easterly extension, a distance of 400.00 feet to a point; thence South 01 degree 23 minutes 04 seconds West, departing said Easterly extension, a distance of 436.21 feet to a point on the Easterly extension of the South line of said Lot 1; thence North 88 degrees 38 minutes 41 seconds West, on said Easterly extension and on said South line, a distance of 400.00 feet to the POINT OF BEGINNING, containing 174,485 Square Feet or 4.0056 Acres, more or less.

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Drawing No.
C3.0
FINAL DEVELOPMENT PLAN

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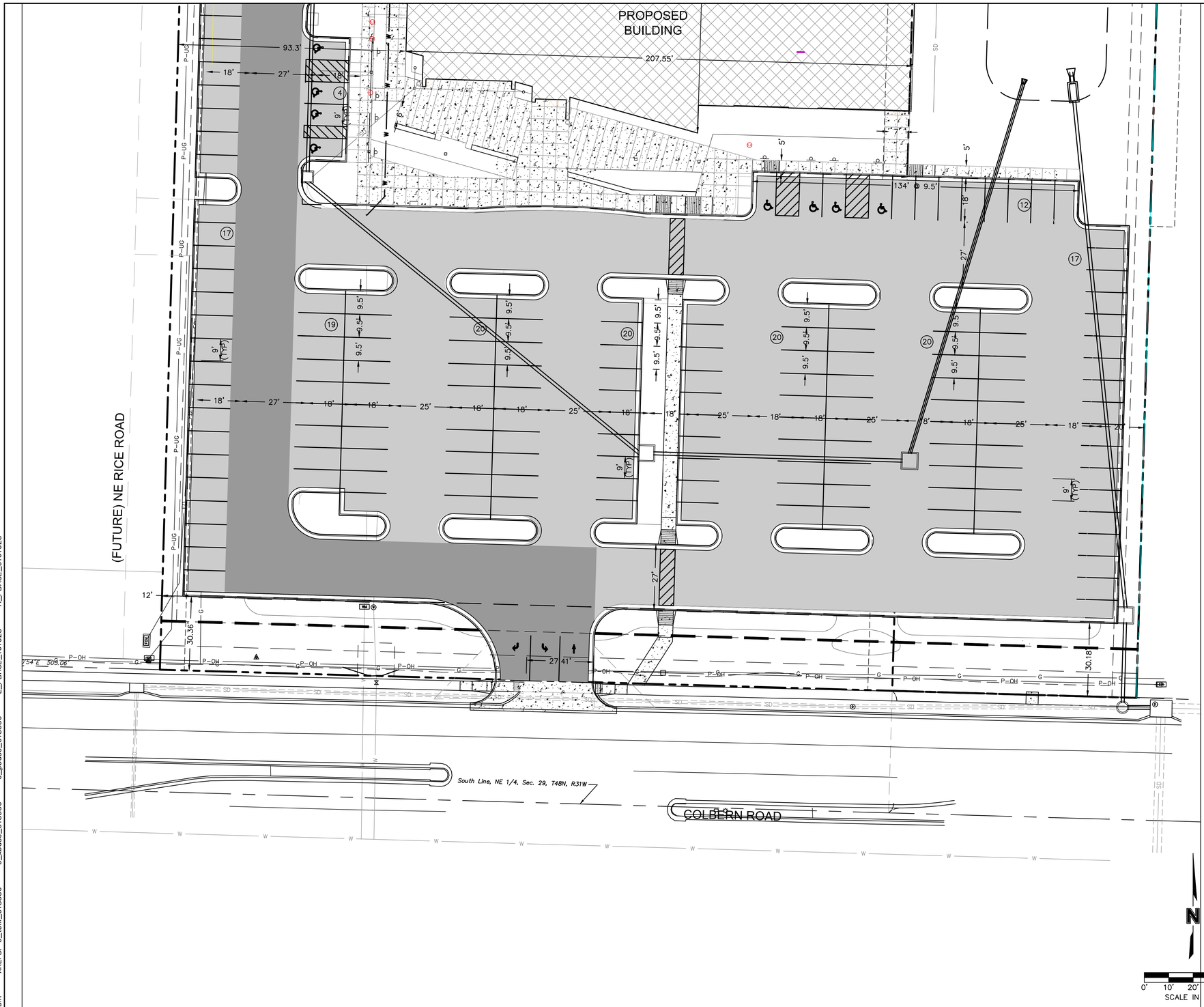

SITE DATA		
ZONING		
PROPOSED USE:	PUBLIC LIBRARY	
EXISTING ZONING:	NPO & AG	
SITE AREA		ZONING
LOT 2A:	6.60 ACRES	CP-0
RIGHT OF WAY:	3.01 ACRES	CP-0
TOTAL SITE:	32.47 ACRES	CP-0
OPEN SPACE		
ZONING	REQUIRED	PROVIDED
CP-0	35% (8.36 ACRES)	46% (10.98 ACRES)
CP-2	30% (1.67 ACRES)	53% (4.14 ACRES)*
R/W	--	46% (1.37 ACRES)
BUILDING AREA		
BUILDING TYPE:	# STORIES	SQUARE FOOTAGE
BUILDING	3.5	90,000
	TOTAL	334,500 SF
PARKING		
ZONING	REQUIRED	PROVIDED
OFFICE	1 PER 250 SF = 1260	1213 (3.85)
ADA	20 PLUS 1 PER 100 STALLS OVER 1000 (26)	34
TOTAL	1520	1535 (INCLUDING ADA)

*TRACT A INCLUDED IN OPEN SPACE CALCULATION
-CROSS ACCESS FOR PARKING & DRIVE AISLES ALLOWED THROUGHOUT

EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- EASEMENT LINES
- P-OH — OVERHEAD ELECTRIC
- P-UG — UNDERGROUND ELECTRIC
- TEL — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- G — GAS LINE
- W — WATER LINE
- SD — STORM SEWER LINE
- SS — SANITARY SEWER LINE
- 851 — EXISTING GRADE CONTOURS

PROPOSED CONDITIONS LEGEND

- E — PROPOSED UNDERGROUND ELECTRIC
- FO — PROPOSED FIBER OPTIC
- W — PROPOSED WATER LINE
- FP — PROPOSED FIRE PROTECTION LINE
- SD — PROPOSED STORM SEWER LINE
- SS — PROPOSED SANITARY SEWER SERVICE
- PROPOSED CONCRETE CURB & GUTTER
- PROPOSED BUILDING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT DUTY ASPHALT
- PROPOSED DETENTION BASIN
- 851 — PROPOSED GRADE CONTOURS

KEYNOTES:

1. PROPOSED TRASH ENCLOSURE
2. _____
3. _____
4. _____
5. _____

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1629 Walnut
Kansas City, MO 64108 816.300.0300

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PRELIMINARY DEVELOPMENT PLANS FOR
COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record

STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2018010505
02-10-2020
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

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Overland Park, KS 66213
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Revision No.	Description	Date

ISSUE FOR CITY REVIEW
02.10.2020

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C4.0
SITE DIMENSION PLAN

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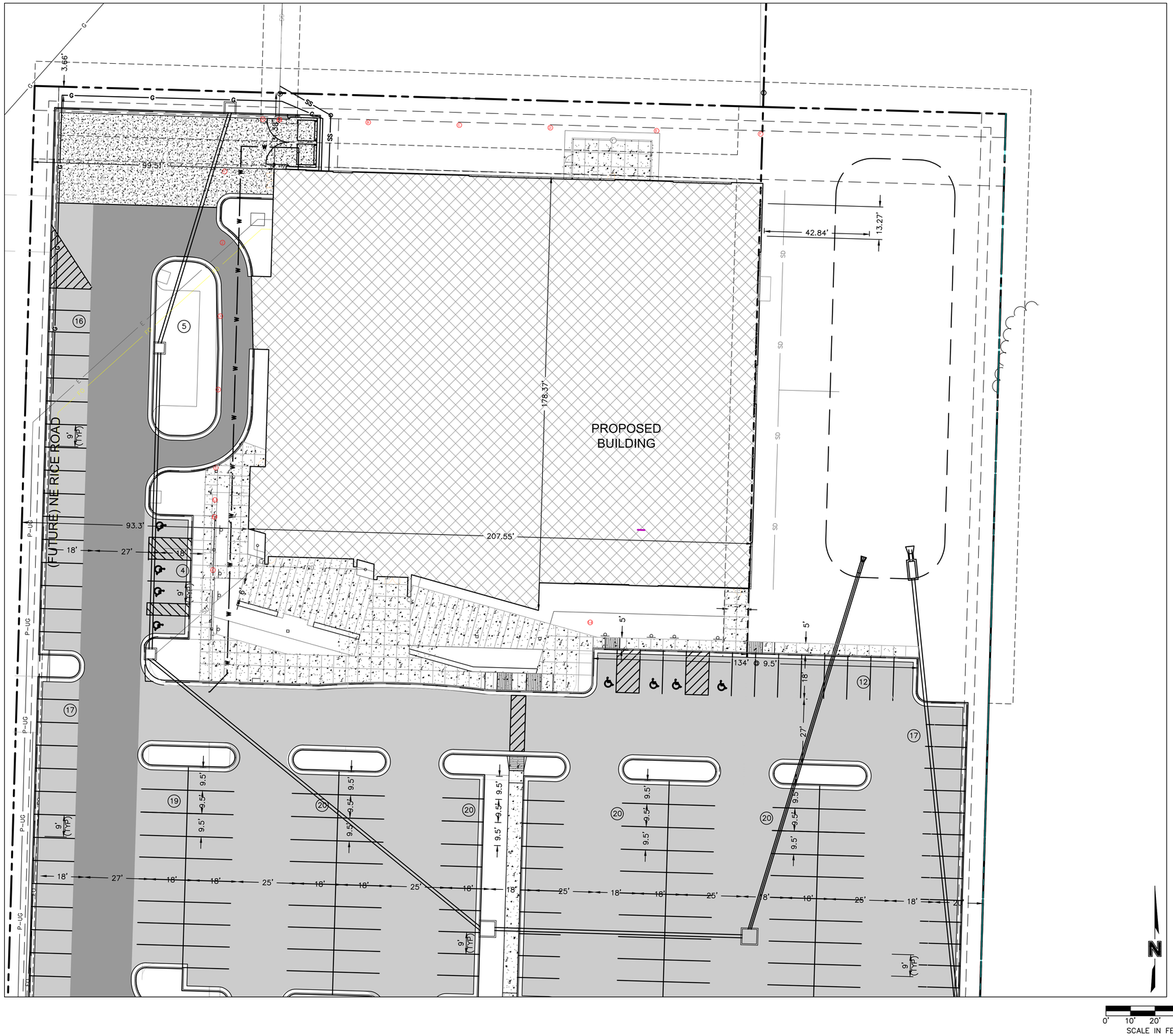

SITE DATA		
ZONING		
PROPOSED USE:	PUBLIC LIBRARY	
EXISTING ZONING:	NPO & AG	
SITE AREA		ZONING
LOT 2A:	6.60 ACRES	CP-0
RIGHT OF WAY:	3.01 ACRES	CP-0
TOTAL SITE:	32.47 ACRES	CP-0
OPEN SPACE		
ZONING	REQUIRED	PROVIDED
CP-0	35% (8.36 ACRES)	46% (10.98 ACRES)
CP-2	30% (1.67 ACRES)	53% (4.14 ACRES)*
R/W	--	46% (1.37 ACRES)
BUILDING AREA		
BUILDING TYPE:	# STORIES	SQUARE FOOTAGE
BUILDING	3.5	90,000
	TOTAL	334,500 SF
PARKING		
ZONING	REQUIRED	PROVIDED
OFFICE	1 PER 250 SF = 1260	1213 (3.85)
ADA	20 PLUS 1 PER 100 STALLS OVER 1000 (26)	34
TOTAL	1520	1535 (INCLUDING ADA)

*TRACT A INCLUDED IN OPEN SPACE CALCULATION
-CROSS ACCESS FOR PARKING & DRIVE AISLES ALLOWED THROUGHOUT

EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- EASEMENT LINES
- P-OH — OVERHEAD ELECTRIC
- P-UG — UNDERGROUND ELECTRIC
- TEL — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- G — GAS LINE
- W — WATER LINE
- SD — STORM SEWER LINE
- SS — SANITARY SEWER LINE
- 851 — EXISTING GRADE CONTOURS

PROPOSED CONDITIONS LEGEND

- E — PROPOSED UNDERGROUND ELECTRIC
- FO — PROPOSED FIBER OPTIC
- W — PROPOSED WATER LINE
- FP — PROPOSED FIRE PROTECTION LINE
- SD — PROPOSED STORM SEWER LINE
- SS — PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & GUTTER
- PROPOSED BUILDING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT DUTY ASPHALT
- PROPOSED DETENTION BASIN
- 851 — PROPOSED GRADE CONTOURS

KEYNOTES:

1. PROPOSED TRASH ENCLOSURE
2. ------
3. ------
4. ------
5. ------

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Drawing No.

C4.1
SITE DIMENSION PLAN

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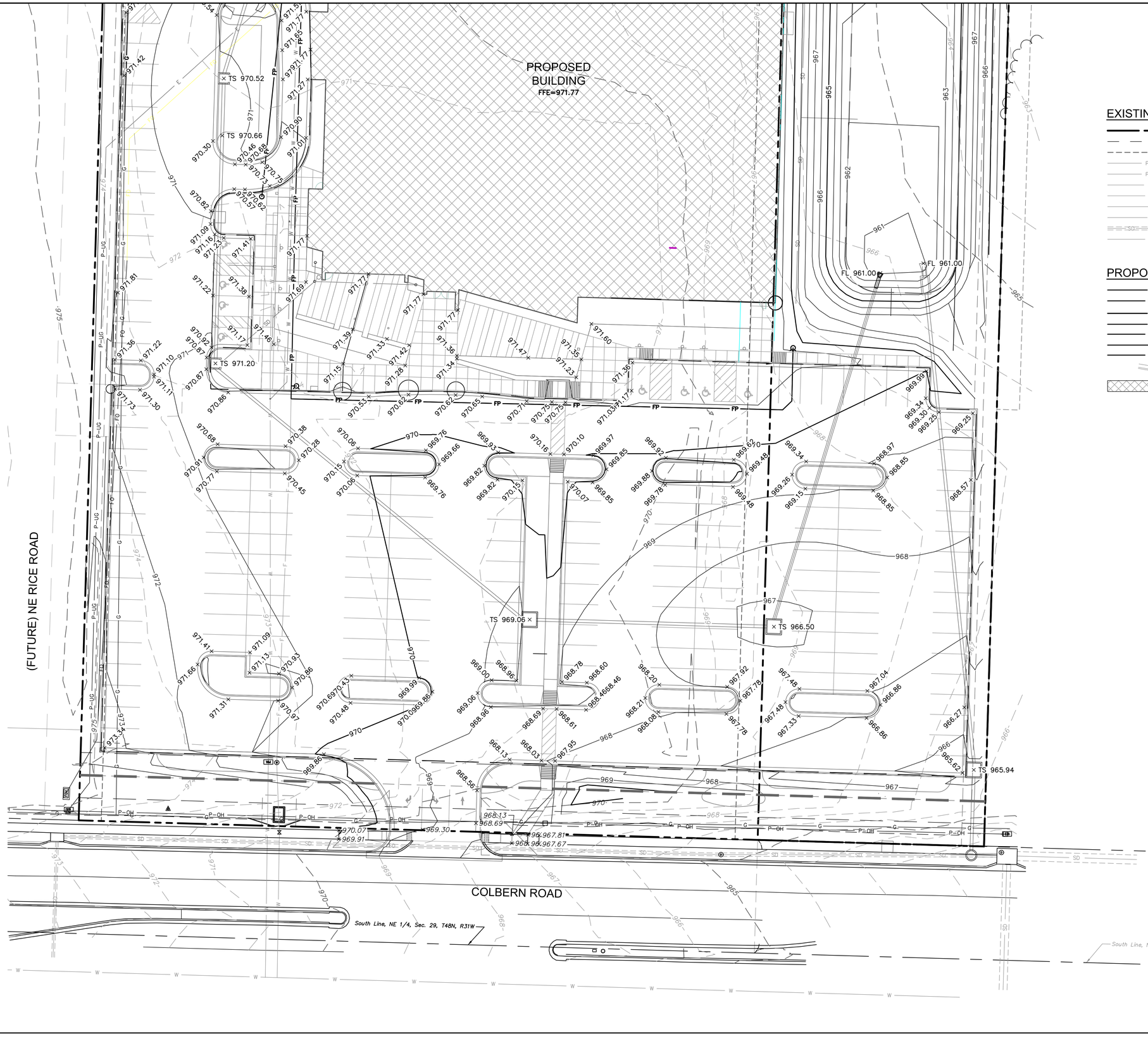

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GRADING PLAN

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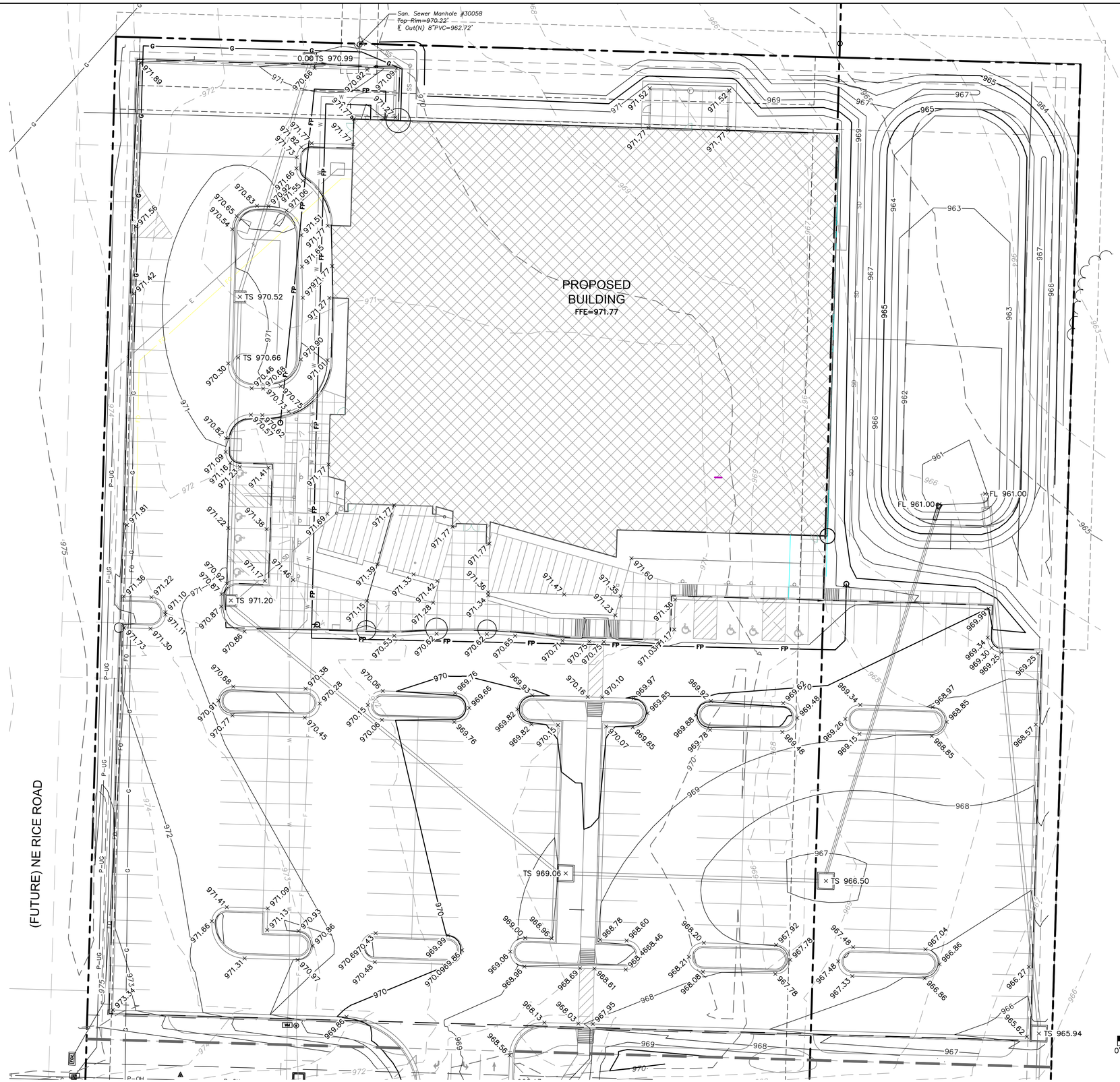

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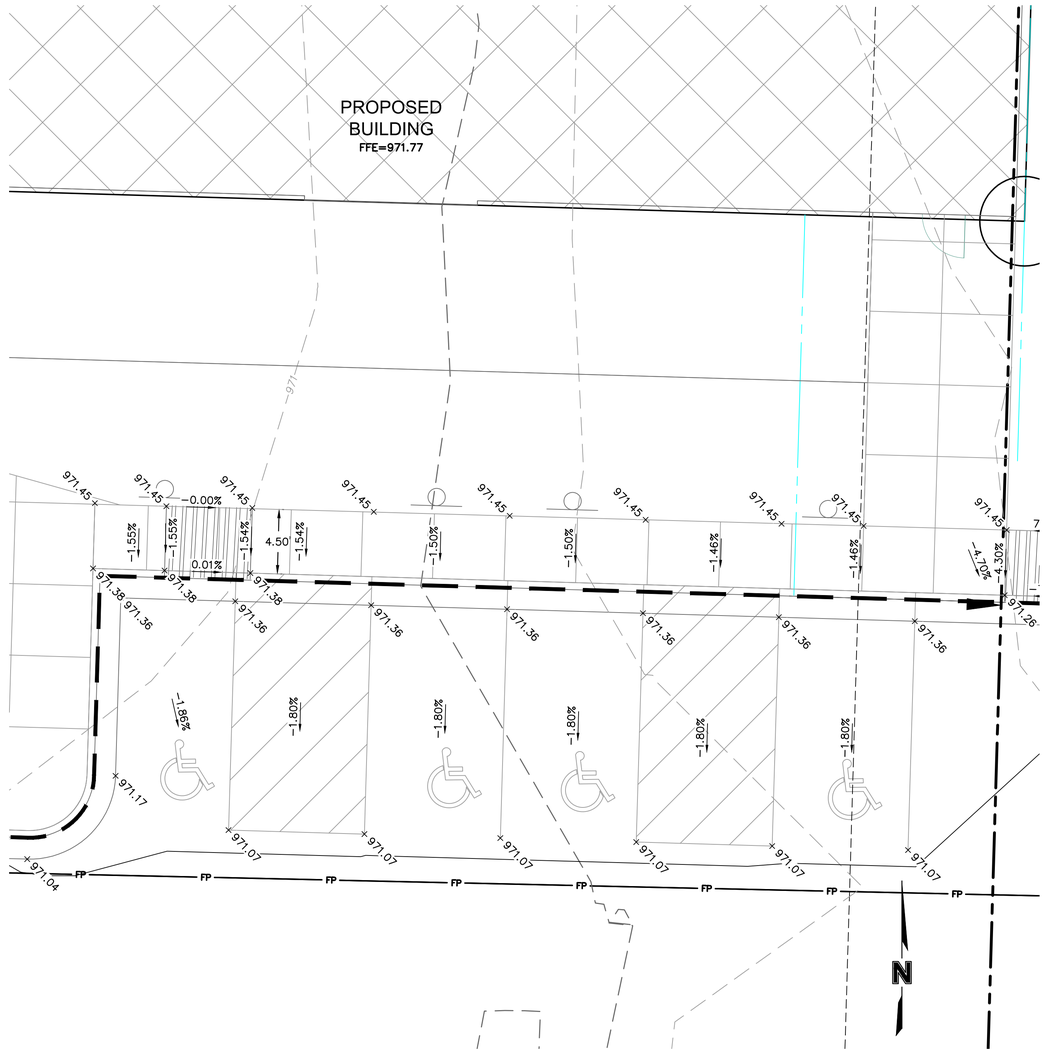

GRADING DETAIL A
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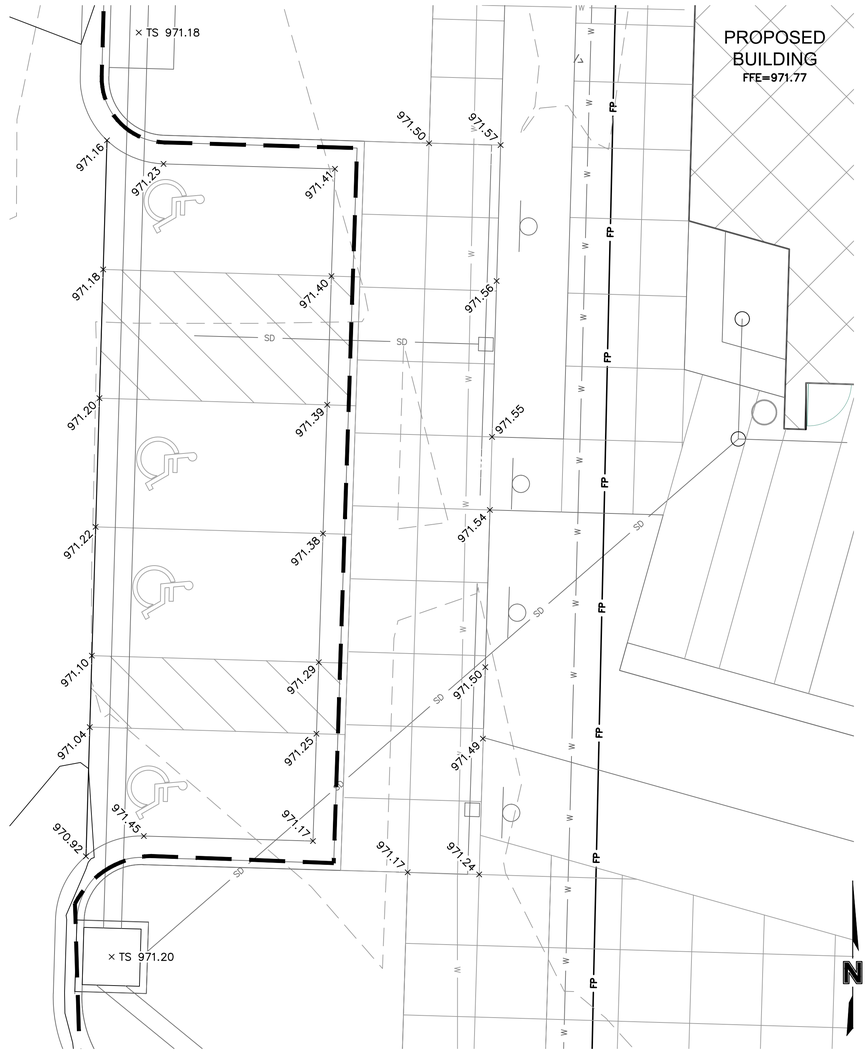

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SCALE: 1"=5'

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GRADING DETAILS

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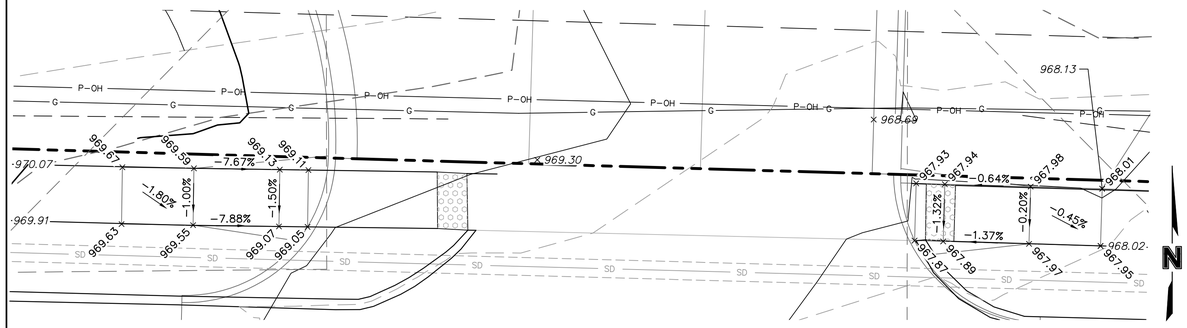

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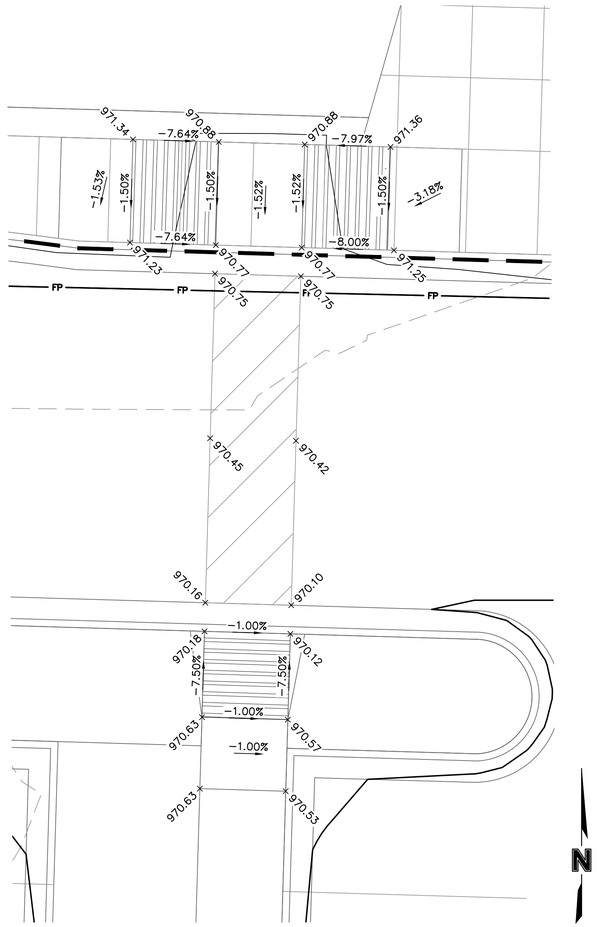

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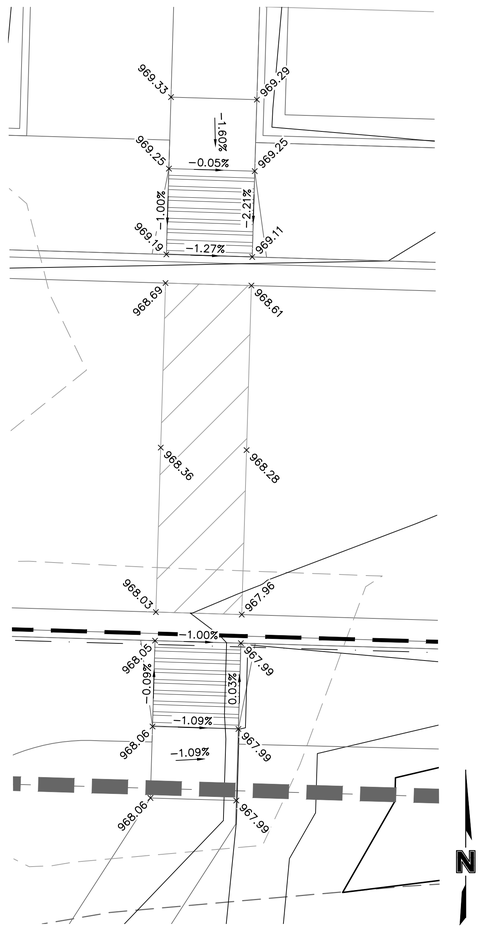

GRADING DETAIL E

SCALE: 1"=5'

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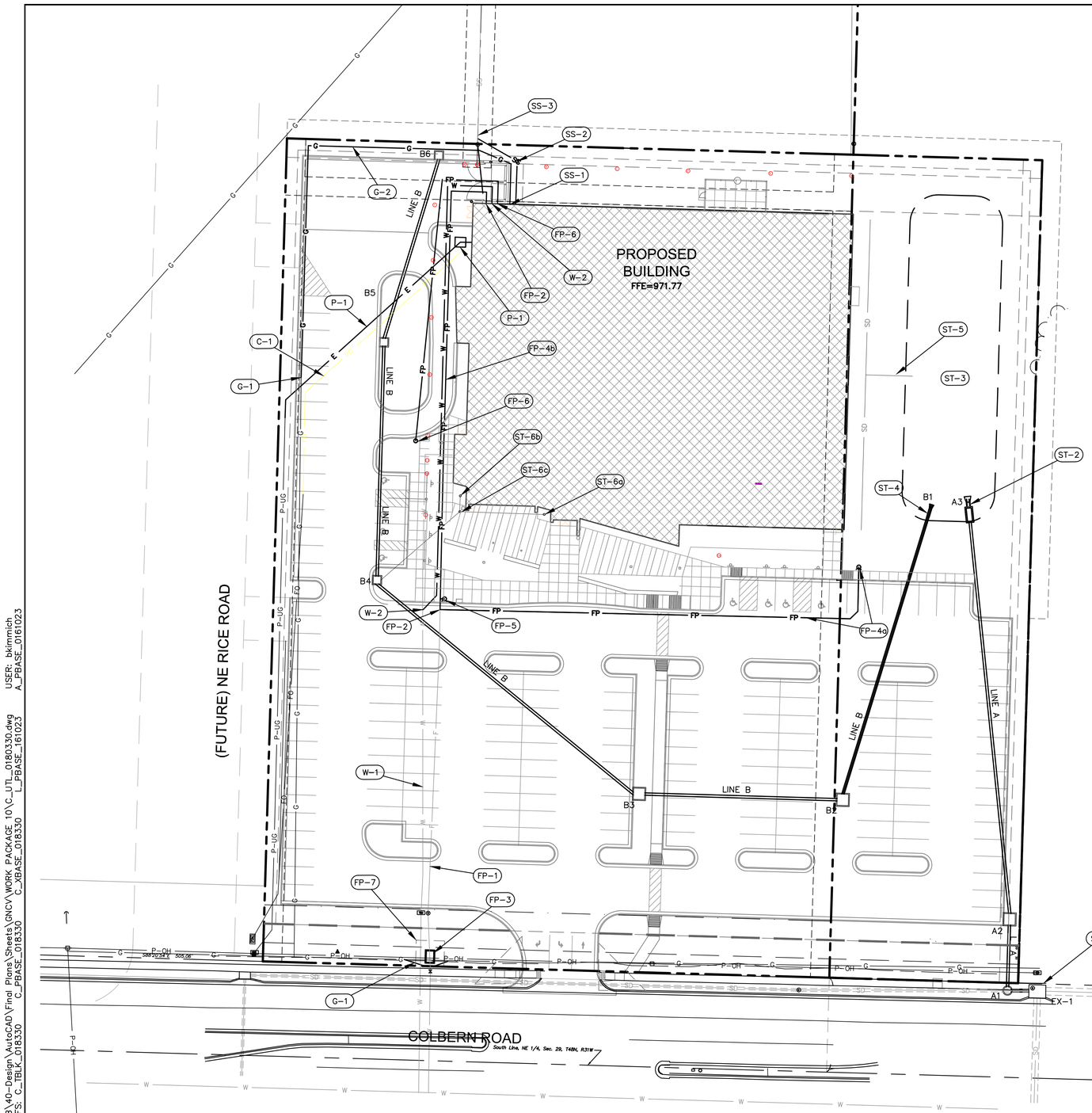

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- PROPOSED BUILDING

UTILITY KEYNOTES: (XX)

WATER
W-1 EXISTNIG 2" SERVICE LINE TO REMAIN
W-2 EXTEND EXISTING SERVICE BY INSTALLING 181 LF OF 2" POLYETHYLENE PIPE (AWWA C901) TO PROPOSED BUILDING

FIRE PROTECTION
FP-1 EXISTING 6" FIRE SERVICE TO REMAIN
FP-2 INSTALL 6x6x6 TEE ON EXISTING FIRE PROTECTION LINE
FP-3 INSTALL BACK FLOW PREVENTOR AND VAULT ADJACENT TO GATE VALVE ON EXISTING FIRE PROTECTION LINE PER CITY STANDARDS.
FP-4a INSTALL 246 LF OF AWWA C900 6" FIRE LINE W/HYDRANT AND GATE VALVE
FP-4b INSTALL 247 LF OF AWWA C900 6" FIRE LINE W/RELOCATED HYDRANT AND GATE VALVE
FP-5 RELOCATE EXISTING HYDRANT
FP-6 INSTALL 181 LF OF AWWA C900 6" FIRE LINE W/REMOTE FIRE DEPARTMENT CONNECTION
FP-7 PROPOSED UTILITY EASEMENT

SANITARY SEWER
SS-1 INSTALL 21 LF 4" PVC SERVICE @ 10.87% (FL=967.77)
SS-2 INSTALL STANDARD CLEANOUT (FG=971.04,FL=965.49) AND INSTALL 26 LF 4" PVC SERVICE @ 10.87%
SS-3 INSTALL WYE CONNECTION ON EXISTING 8" MAIN (FL=962.68)

STORM SEWER (REF:C7.0-C7.2 FOR STORM SEWER PLANS AND PROFILES)
ST-1 CONNECT TO EXISTING CURB INLET. REPLACE EXISTING 12" STORM PIPE WITH 18" RCP FROM A1 TO EX-1
ST-2 CONSTRUCT CONTROL STRUCTURE WITH 3 LF OF 30" HDPE AND FLARED END SECTION WITH TRASH RACK PER DETAIL
ST-3 EXTENDED DRY DETENTION BASIN
ST-4 INSTALL STD 24" FLARED END SECTION
ST-5 ROOF DRAINS TO DETENTION BASIN
ST-6 AREA DRAINS TO DETENTION BASIN (8" HDPE AND NYLOPLAST CATCH BASINS)
- a INSTALL CATCH BASIN (FG=971.05, FL=968.05) AND 45 LF OF 8" HDPE PIPE
- b INSTALL CATCH BASIN (FG=971.05, FL=968.05) AND 8 LF OF 8" HDPE PIPE
- c INSTALL CATCH BASIN (FG=971.05, FL=967.60) AND 54 LF OF 8" HDPE PIPE AND CONNECT TO PROPOSED INLET (FL=967.06)

POWER
P-1 PRIMARY SERVICE -COORDINATE WITH EVERGY.
P-2 PROPOSED TRANFORMER LOCATION COORDINATE WITH EVERGY AND MEP.

GAS
G-1 CONNECTION TO EXISTING GAS LINE. COORDINATE WITH ASPIRE.
G-2 INSTALL 2 1/2" GAS SERVICE TO PROPOSED BUILDING.
G-3 RELOCATE EXISTING GAS MAIN AROUND PROPOSED BFP VAULT

COMMUNICATION
C-1 RELOCATE EXISTING FIBER LINE (COORDINATE WITH UTILITY PROVIDER)

N
0' 15' 30' 60'
SCALE IN FEET

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LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record

STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2018010505
02-10-2020
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date

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B18-0330	02.05.20	RLK

Drawing No.
C6.0
UTILITY PLAN

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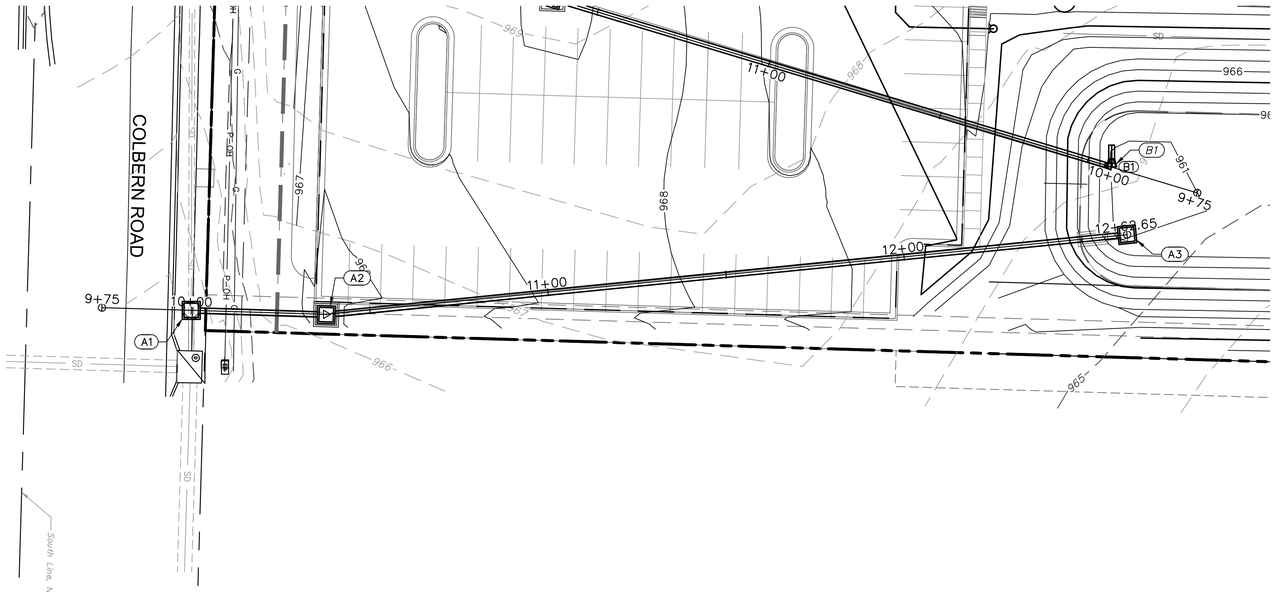


STRUCTURES	
ID	DESCRIPTION
A1	INSTALL STD. 4'DIA. MH ON EXISTING PIPE 10+00, 0.00' STORM LINE A RIM= 962.53 INV IN = 958.65 (18" HDPE) N: 1012096.208; E: 2829609.327
A2	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 10+37.73, 0.09' RT STORM LINE A RIM= 966.02 INV IN = 959.34 (18" HDPE) INV OUT = 958.84 (18" HDPE) N: 1012133.923; E: 2829610.544
A3	INSTALL 4'X4' JUNCTION BOX 12+62.65, 0.00' STORM LINE A RIM= 961.98 INV OUT = 960.47 (18" HDPE) N: 1012357.736; E: 2829588.178

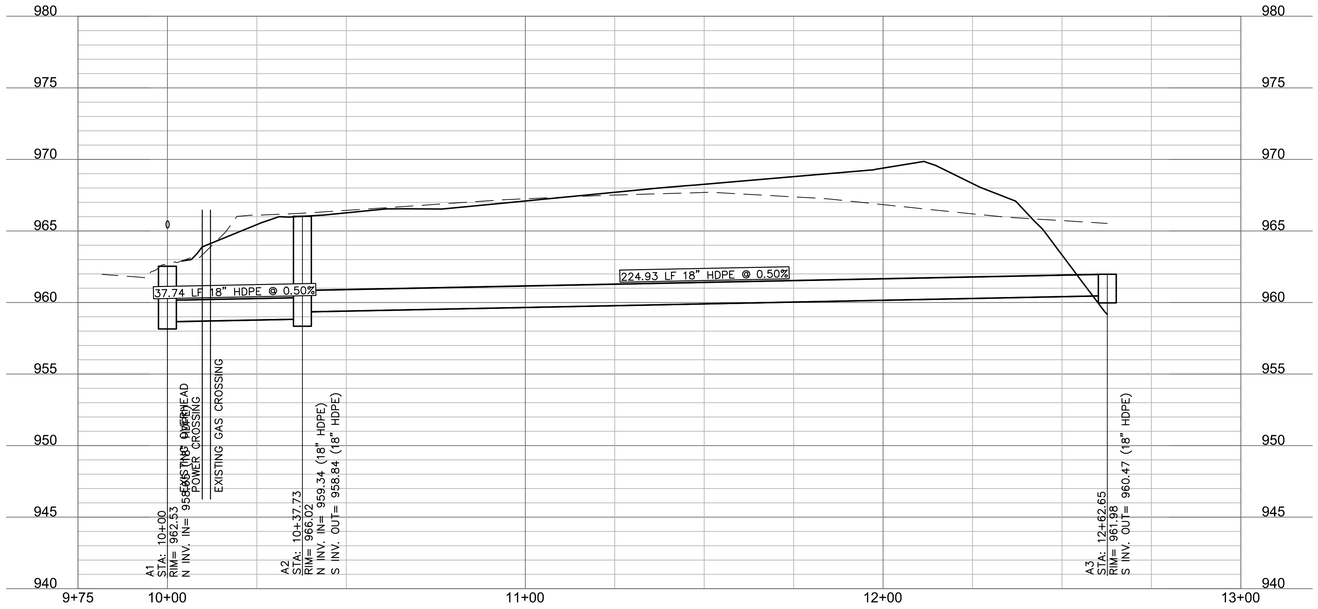
EXISTING CONDITIONS LEGEND

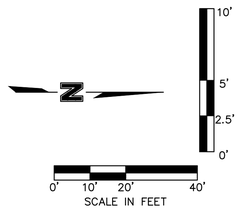
- PROPERTY LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- P-OH — OVERHEAD ELECTRIC
- P-UG — UNDERGROUND ELECTRIC
- TEL — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- G — GAS LINE
- W — WATER LINE
- SD — STORM SEWER LINE
- SS — SANITARY SEWER LINE

PROPOSED CONDITIONS LEGEND

- E — PROPOSED UNDERGROUND ELECTRIC
- FO — PROPOSED FIBER OPTIC
- W — PROPOSED WATER LINE
- FP — PROPOSED FIRE PROTECTION LINE
- SD — PROPOSED STORM SEWER LINE
- T — PROPOSED TURF DRAIN LINE
- SS — PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & GUTTER
- PROPOSED BUILDING

STORM LINE A (9+75 - 13+00)





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B18-0330	02.05.20	RLK

Drawing No.
C7.0
STORM SEWER PLAN & PROFILE

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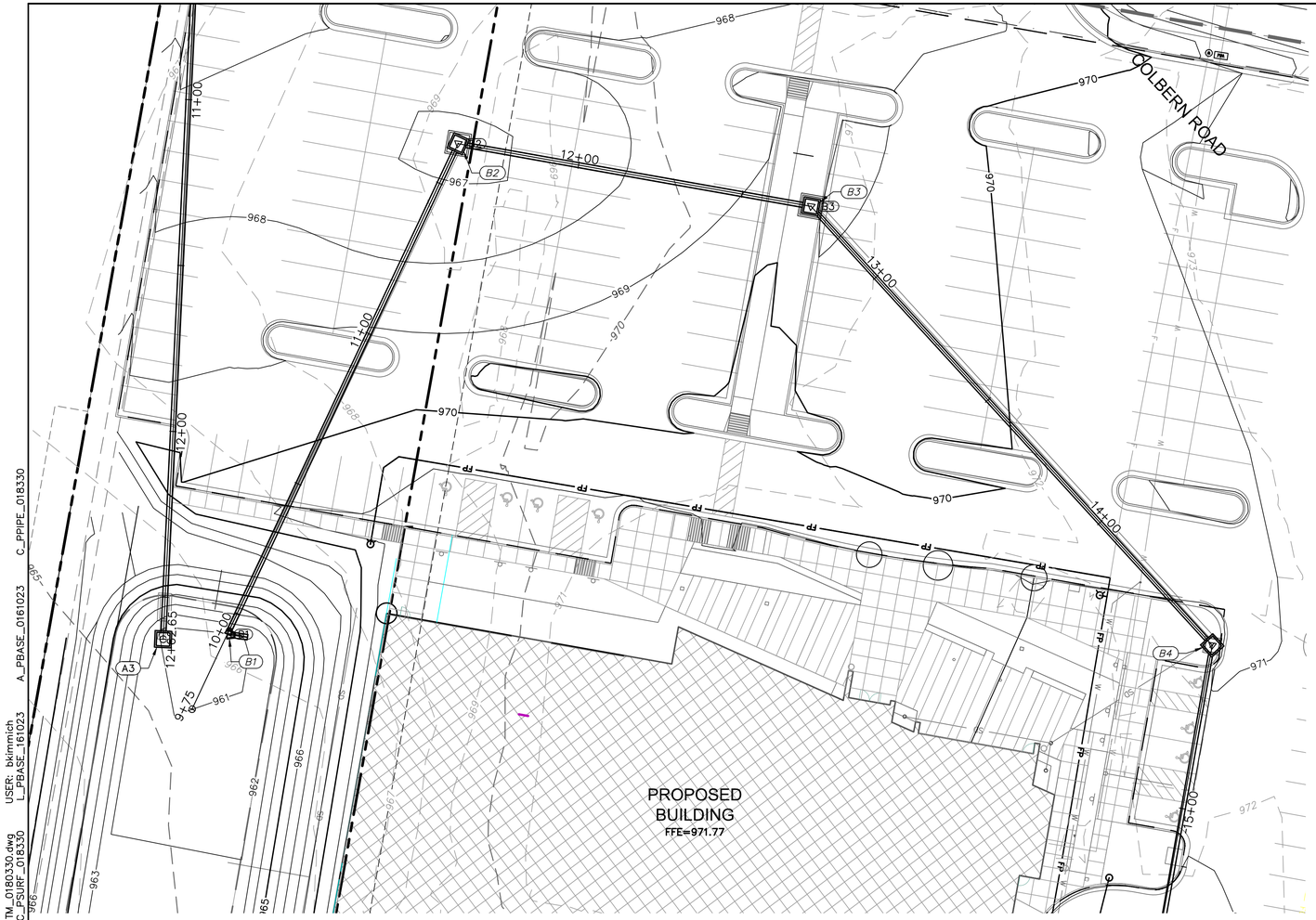

STRUCTURES	
ID	DESCRIPTION
B1	INSTALL X" DIA. HDPE END SECTION WITH CONCRETE TOEWALL 10+00, 0.08' RT STORM LINE B RIM= 961.97 INV IN = 960.47 (24" HDPE) N: 1012353.416; E: 2829569.219
B2	INSTALL STD. 4'X4' GRATE INLET 11+63.18, 0.00' STORM LINE B RIM= 967.00 INV IN = 962.22 (24" HDPE) INV OUT = 961.72 (24" HDPE) N: 1012197.171; E: 2829522.142
B3	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 12+71.06, 0.00' STORM LINE B RIM= 969.62 INV IN = 963.48 (15" HDPE) INV OUT = 962.98 (24" HDPE) N: 1012200.336; E: 2829414.313
B4	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 14+50.09, 0.00' STORM LINE B RIM= 970.86 INV IN = 965.23 (15" HDPE) INV OUT = 964.73 (15" HDPE) N: 1012313.496; E: 2829275.574

EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- P-OH — OVERHEAD ELECTRIC
- P-UG — UNDERGROUND ELECTRIC
- TEL — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
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PROPOSED CONDITIONS LEGEND

- E — PROPOSED UNDERGROUND ELECTRIC
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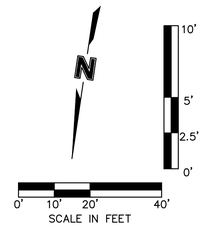
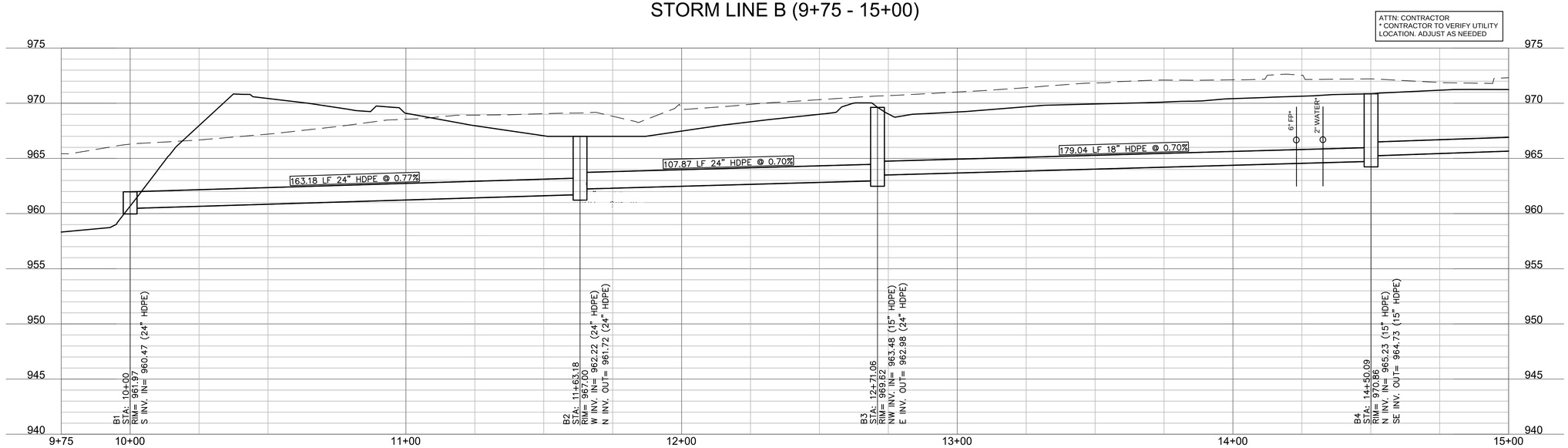


STORM LINE B (9+75 - 15+00)



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B18-0330	02.05.20	RLK

Drawing No.
C7.1
STORM SEWER PLAN & PROFILE

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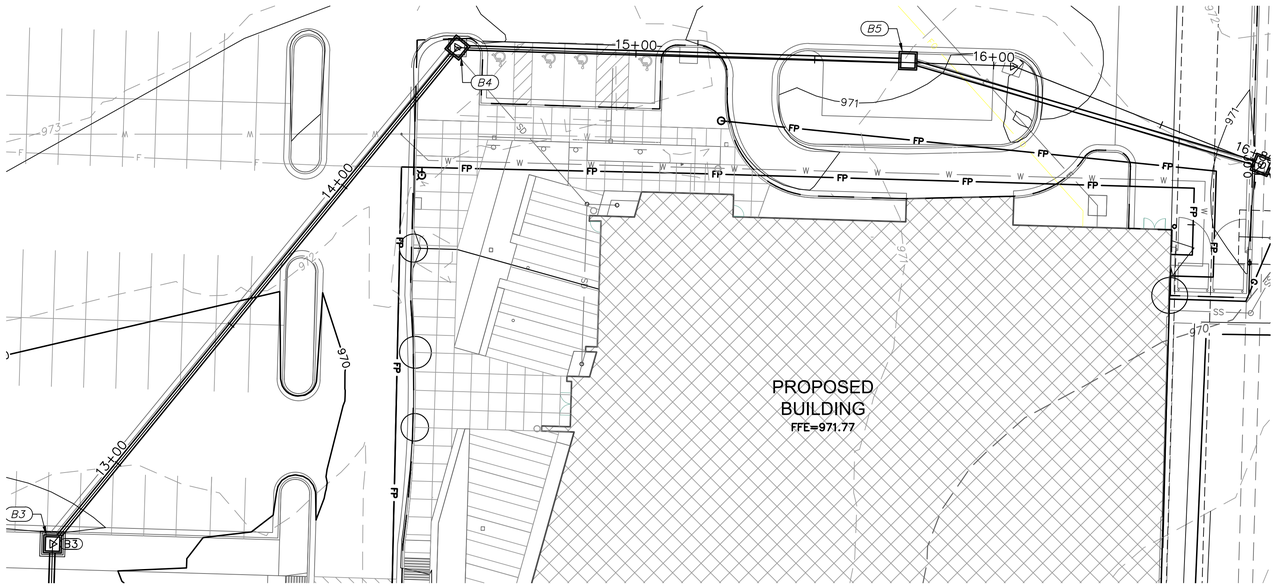

STRUCTURES	
ID	DESCRIPTION
B4	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 14+50.09, 0.00' STORM LINE B RIM= 970.86 INV IN = 965.23 (15" HDPE) INV OUT = 964.73 (15" HDPE) N: 1012313.496; E: 2829275.574
B5	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 15+76.04, -0.51' LT STORM LINE B RIM= 971.33 INV IN = 966.82 (15" HDPE) INV OUT = 966.32 (15" HDPE) N: 1012439.391; E: 2829279.269
B6	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 16+80.23, 0.00' STORM LINE B RIM= 970.59 INV OUT = 967.34 (15" HDPE) N: 1012538.267; E: 2829308.356

EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- P-OH — OVERHEAD ELECTRIC
- P-UG — UNDERGROUND ELECTRIC
- TEL — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
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PROPOSED CONDITIONS LEGEND

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- FO — PROPOSED FIBER OPTIC
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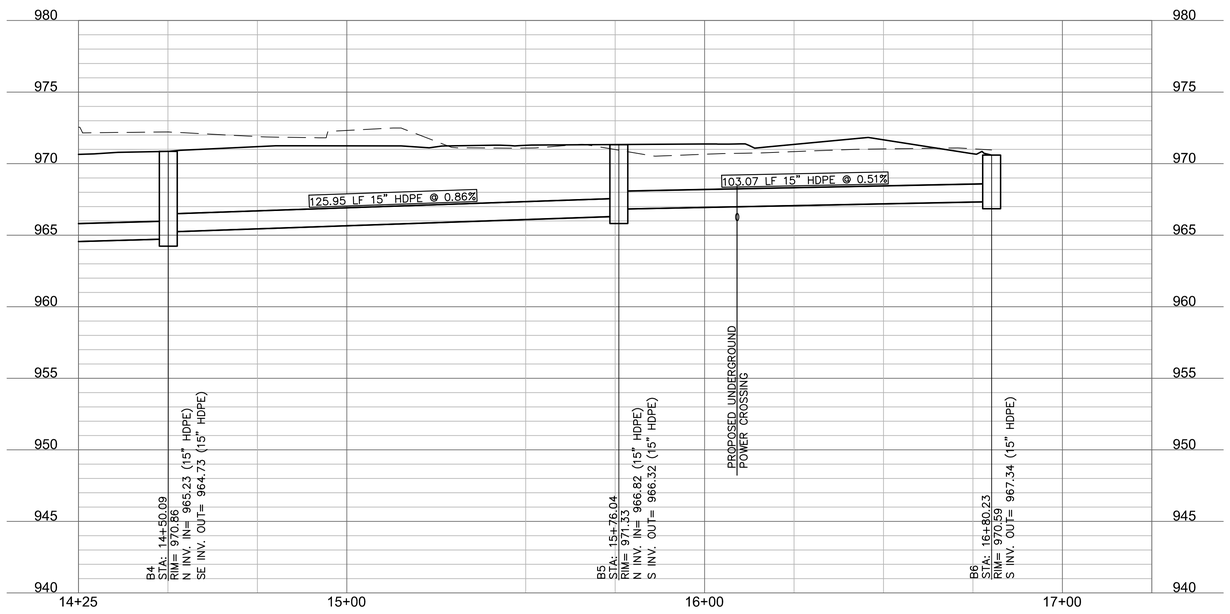
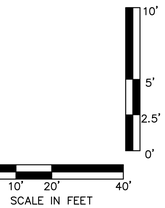
- PROPOSED BUILDING

STORM LINE B (14+25 - 17+25)





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Drawing No.
C7.2
STORM SEWER PLAN & PROFILE

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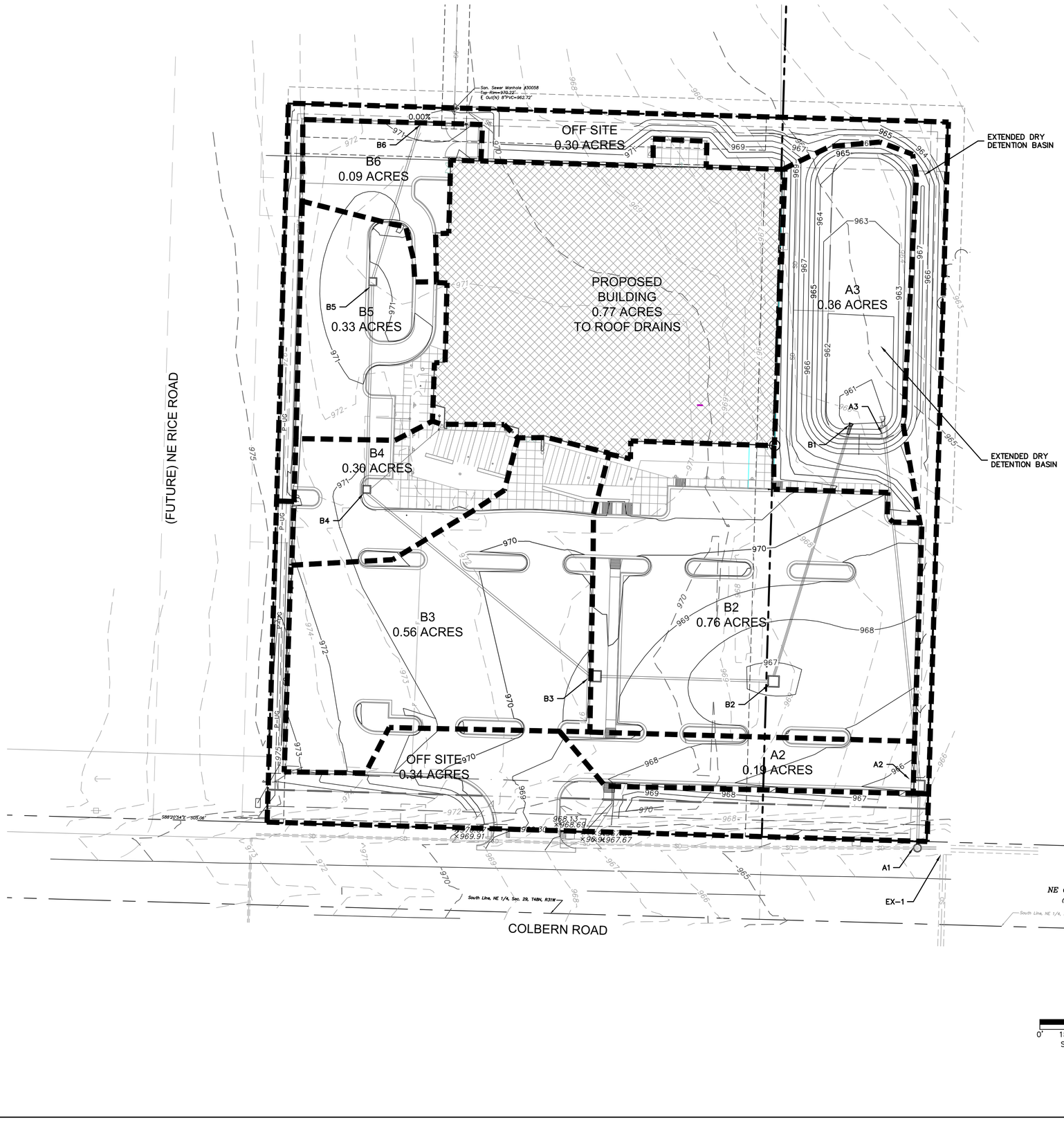

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Drawing No.

C8.0
DRAINAGE PLAN

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STORM SEWER PIPE AND STRUCTURE TABLE

STORM SEWER PIPE AND STRUCTURE TABLE
TITLE: COLBERN ROAD LIBRARY (LEES SUMMIT)
JOB #: B18-0330

DESIGN CONDITIONS: 10 YEAR STORM EVENT

STRUCTURES		RUNOFF CALCULATIONS								PIPE DESIGN																	
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K=1.00)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	Hw/D	MH TOP ELEVATION	UPSTREAM FLOWLINE	DOWNSTREAM FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICTION HEAD (h f)	ENTRY LOSS COEFFICIENT (k)	ACTUAL ENTRY LOSS (k)	ENTRY LOSS (h m)	h f + h m (FT)	HW, INLET CONTROL	HW, OUTLET CONTROL	HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	Comments
RD		0.77		0.90	0.90	5.0	-	7.35	5.09	ROOF DRAINS									N/A											N/A	N/A	
	A3		0.77	0.90	0.90	5.0	-	7.35	5.09	18 in. HDPE	30.00	1.20	18	11.54	1.77	6.53	6.32	0.89		969.00	968.64	N/A	N/A	N/A	N/A	N/A	N/A					END SECTION TO BASIN
B6		0.09		0.80	0.80	5.0	-	7.35	0.53	CURB INLET									970.59											968.18	969.59	
	B5		0.09	0.80	0.80	5.0	-	7.35	0.53	15 in. HDPE	103.07	0.51	15	4.63	1.23	3.77	2.51	0.68		967.34	966.81	967.26	0.01	1.00	1.00	0.10	0.11	968.18	967.37			
B5		0.33		0.80	0.80	5.0	-	7.35	1.94	CURB INLET									971.36											967.26	970.36	
	B4		0.42	0.65	0.65	5.0	-	7.35	2.01	15 in. HDPE	125.95	0.86	15	6.01	1.23	4.89	4.40	0.76		966.32	965.24	965.92	0.12	0.30	1.00	0.30	0.42	967.26	966.34			
B4		0.30		0.80	0.80	5.0	-	7.35	1.76	CURB INLET									970.86											965.92	969.86	
	B3		0.72	0.71	0.71	5.0	-	7.35	3.76	18 in. HDPE	179.00	0.70	18	8.81	1.77	4.99	4.78	0.79		964.73	963.48	964.49	0.23	0.40	0.40	0.14	0.37	965.92	964.86			
B3		0.56		0.65	0.65	5.0	-	7.35	2.68	CURB INLET									969.82											964.49	968.82	
	B2		1.28	0.68	0.68	5.0	-	7.35	6.40	24 in. HDPE	108.00	0.70	24	18.98	3.14	6.04	5.44	0.75		962.98	962.22	963.47	0.09	0.40	0.40	0.18	0.27	964.49	963.74			
B2		0.76		0.65	0.65	5.0	-	7.35	3.63	CURB INLET									967.00											963.47	966.00	
	B1		2.04	0.67	0.67	5.0	-	7.35	10.05	24 in. HDPE	179.00	0.70	24	18.98	3.14	6.04	6.11	0.87		961.72	960.45	962.20	0.36	0.50	0.50	0.29	0.65	963.47	962.85			END SECTION TO BASIN
A3		0.36		0.30	0.30	5.0	-	7.35	0.79	Control Structure									965.00											961.77	964.00	
	A2		3.17	0.68	0.68	5.0	-	7.35	4.40	18 in. HDPE	220.00	0.50	18	7.45	1.77	4.21	4.47	0.87		960.47	959.34	960.66	0.46	1.00	1.00	0.31	0.78	961.77	961.43			Design Q based on Detained Flows (includes all areas to basin)
A2		0.19		0.80	0.80	5.0	-	7.35	0.88	CURB INLET									966.02											960.66	965.02	
	A1		3.36	0.69	0.69	5.0	-	7.35	4.90	18 in. HDPE	38.00	0.50	18	7.45	1.77	4.21	4.71	1.00		958.84	958.65	960.18	0.13	0.50	1.00	0.34	0.48	960.34	960.66			Design Q based on Detained Flows

STORM SEWER PIPE AND STRUCTURE TABLE

STORM SEWER PIPE AND STRUCTURE TABLE
TITLE: COLBERN ROAD LIBRARY (LEES SUMMIT)
JOB #: B18-0330

DESIGN CONDITIONS: 100 YEAR STORM EVENT

STRUCTURES		RUNOFF CALCULATIONS								PIPE DESIGN																	
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K=1.00)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	Hw/D	MH TOP ELEVATION	UPSTREAM FLOWLINE	DOWNSTREAM FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICTION HEAD (h f)	ENTRY LOSS COEFFICIENT (k)	ACTUAL ENTRY LOSS (k)	ENTRY LOSS (h m)	h f + h m (FT)	HW, INLET CONTROL	HW, OUTLET CONTROL	HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	Comments
RD		0.77		0.90	1.13	5.0	-	10.32	8.94	ROOF DRAINS									N/A											N/A	N/A	
	A3		0.77	0.90	1.13	5.0	-	10.32	8.94	18 in. HDPE	30.00	1.20	18	11.54	1.77	6.53	7.20	1.35		969.00	968.64	N/A	N/A	N/A	N/A	N/A	N/A					END SECTION TO BASIN
B6		0.09		0.80	1.00	5.0	-	10.32	0.93	CURB INLET									970.59											968.20	969.59	
	B5		0.09	0.80	1.00	5.0	-	10.32	0.93	15 in. HDPE	75.00	0.51	15	4.63	1.23	3.77	2.95	0.69		967.34	966.96	967.49	0.02	1.00	1.00	0.13	0.15	968.20	967.64			
B5		0.33		0.80	1.00	5.0	-	10.32	3.41	CURB INLET									971.36											967.49	970.36	
	B4		0.42	0.65	0.81	5.0	-	10.32	3.52	15 in. HDPE	156.00	0.86	15	6.01	1.23	4.89	5.09	0.93		966.32	1012.02	966.29	0.47	0.30	1.00	0.40	0.87	967.49	967.16			
B4		0.30		0.80	1.00	5.0	-	10.32	3.10	CURB INLET									970.86											966.29	969.86	
	B3	MA	0.72	0.71	0.89	5.0	-	10.32	6.59	18 in. HDPE	179.00	0.70	18	8.81	1.77	4.99	5.46	1.04		964.73	1009.98	965.27	0.71	0.40	0.40	0.19	0.90	966.29	966.17			
B3		0.56		0.65	0.81	5.0	-	10.32	4.70	CURB INLET									969.82											965.27	968.82	
	B2		1.28	0.68	0.85	5.0	-	10.32	11.23	18 in. HDPE	108.00	0.70	24	18.98	3.14	6.04	6.28	0.92		962.98	1009.98	964.76	0.27	0.40	0.40	0.25	0.51	964.83	965.27			
B2		0.76		0.65	0.81	5.0	-	10.32	6.37	CURB INLET									967.00											964.76	966.00	
	B1		2.04	0.67	0.84	5.0	-	10.32	17.63	18 in. HDPE	179.00	0.70	24	18.98	3.14	6.04	6.85	1.30		961.72	1009.98	963.30	1.10	0.50	0.50	0.36	1.46	964.31	964.76			END SECTION TO BASIN
A3		0.36		0.30	0.38	5.0	-	10.32	1.39	Control Structure									965.00											963.44	964.00	
	A2		3.17	0.68	0.85	5.0	-	10.32	9.20	18 in. HDPE	220.00	0.70	18	8.81	1.77	4.99	5.67	1.31		960.47	1016.01	961.41	1.53	1.00	1.00	0.50	2.03	962.44	963.44			Design Q based on Detained Flows (includes all areas to basin)
A2		0.15		0.80	1.00	5.0	-	10.32	1.55	CURB INLET									966.02											961.41	965.02	
	A1		3.36	0.69	0.86	5.0	-	10.32	10.10	18 in. HDPE	38.00	0.76	18	9.18	1.77	5.20	5.21	1.39		958.84	958.61	960.70	0.29	0.50	1.00	0.42	0.72	960.92	961.41			Design Q based on Detained Flows

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TERRY M. PARSONS
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PROFESSIONAL ENGINEER

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Revision No.	Description	Date

ISSUE FOR CITY REVIEW
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Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C8.1
DRAINAGE CALCULATIONS

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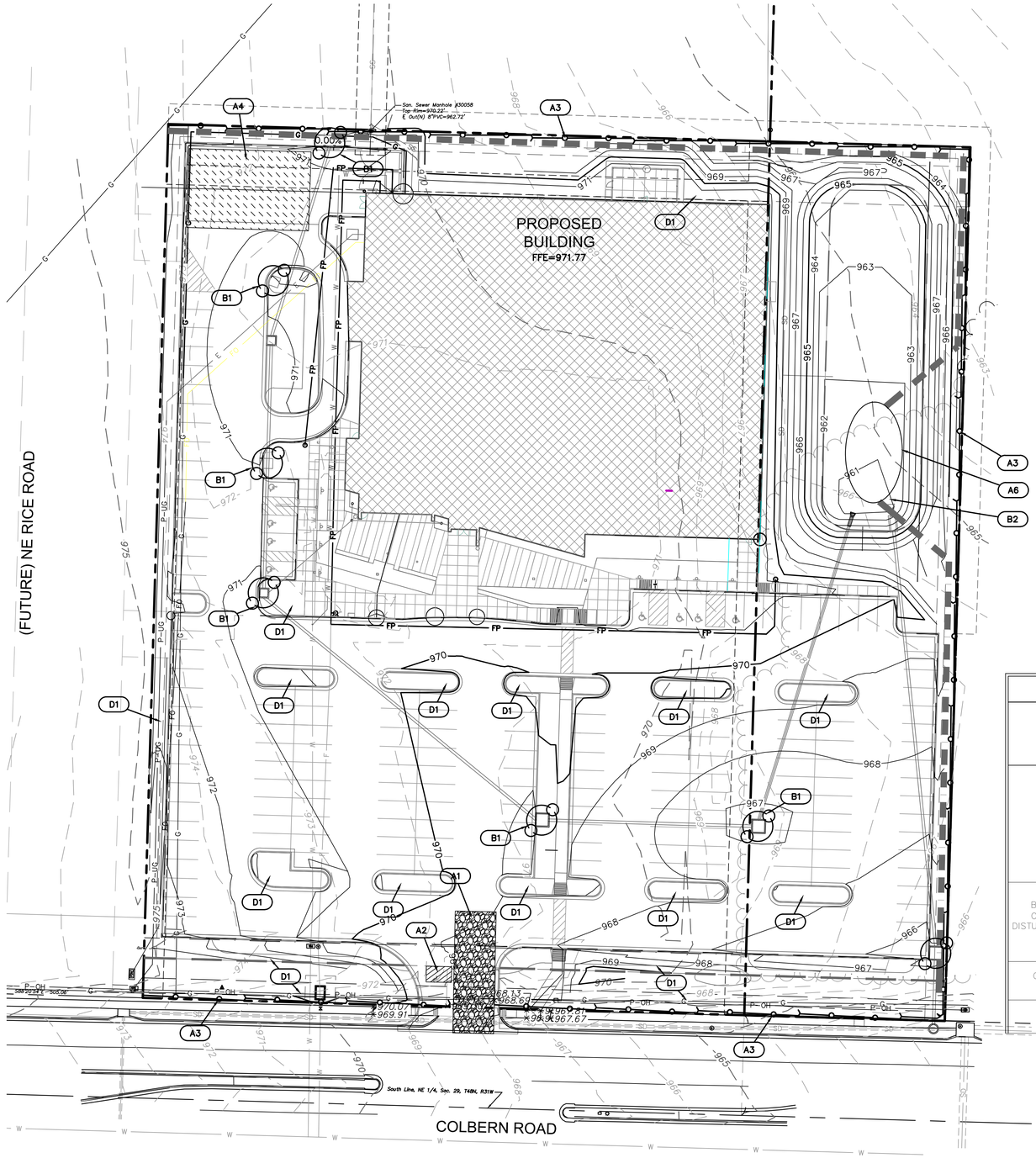

LEGEND

- RIGHT OF WAY LINE
- LOT LINE
- EXISTING GRADE CONTOUR
- FINISHED GRADE CONTOUR
- GRAVEL FILTER BAGS
- SEDIMENT FENCE
- TEMPORARY 18" DIVERSION BERM (SEE DETAILS)
- LIMITS OF DISTURBANCE (XX ACRES)
- TEMPORARY CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- STAGING/STOCKPILE AREA
- X1 — EROSION CONTROL REFERENCE NUMBER
- STRAW WATTLES
- STABILIZATION. "LANDLOK (S2)" SHALL BE USED OR APPROVED EQUAL. CONTACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.

EROSION CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A – PRE-CONSTRUCTION	A1	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A2	CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY SLOPE BARRIER (SEDIMENT FENCE)	D	INSTALL AS INDICATED ON PLANS
	A4	STAGING / STOCKPILE AREA	C	INSTALL AS INDICATED ON PLANS
	A5	EXISTING CURB INLET PROTECTION – TEMPORARY SEDIMENT BARRIER – CONDITION A	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT TRAP	C	INSTALL AS INDICATED ON PLANS
	A7	TEMPORARY DIVERSION BERM	C	INSTALL AS INDICATED ON PLANS
B – STORM SEWER & UTILITY CONSTRUCTION (STABILIZE ANY DISTURBED ARES OUTSIDE OF BUILDING PADS AND PARKING LOTS)	B1	TEMPORARY SEDIMENT BARRIER – CURB INLET – CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B2	TEMPORARY SEDIMENT BARRIER – JUNCTION BOX – CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B3	TEMPORARY EROSION CONTROL BLANKET (LANDLOK S2)	C	INSTALL AS INDICATED ON PLANS
C – BUILDING AND PAVEMENT CONSTRUCTION	C1	TEMPORARY SEDIMENT BARRIER – CURB INLET – CONDITION B	D	INSTALL AS INDICATED ON PLANS
	C2	TEMPORARY SEDIMENT BARRIER – JUNCTION BOX – CONDITION B	D	INSTALL AS INDICATED ON PLANS
D – FINAL STABILIZATION	D1	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

N

0' 15' 30' 60'
SCALE IN FEET

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ISSUE FOR CITY REVIEW
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Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.

C9.0
EROSION CONTROL PLAN - PRE CONSTRUCTION

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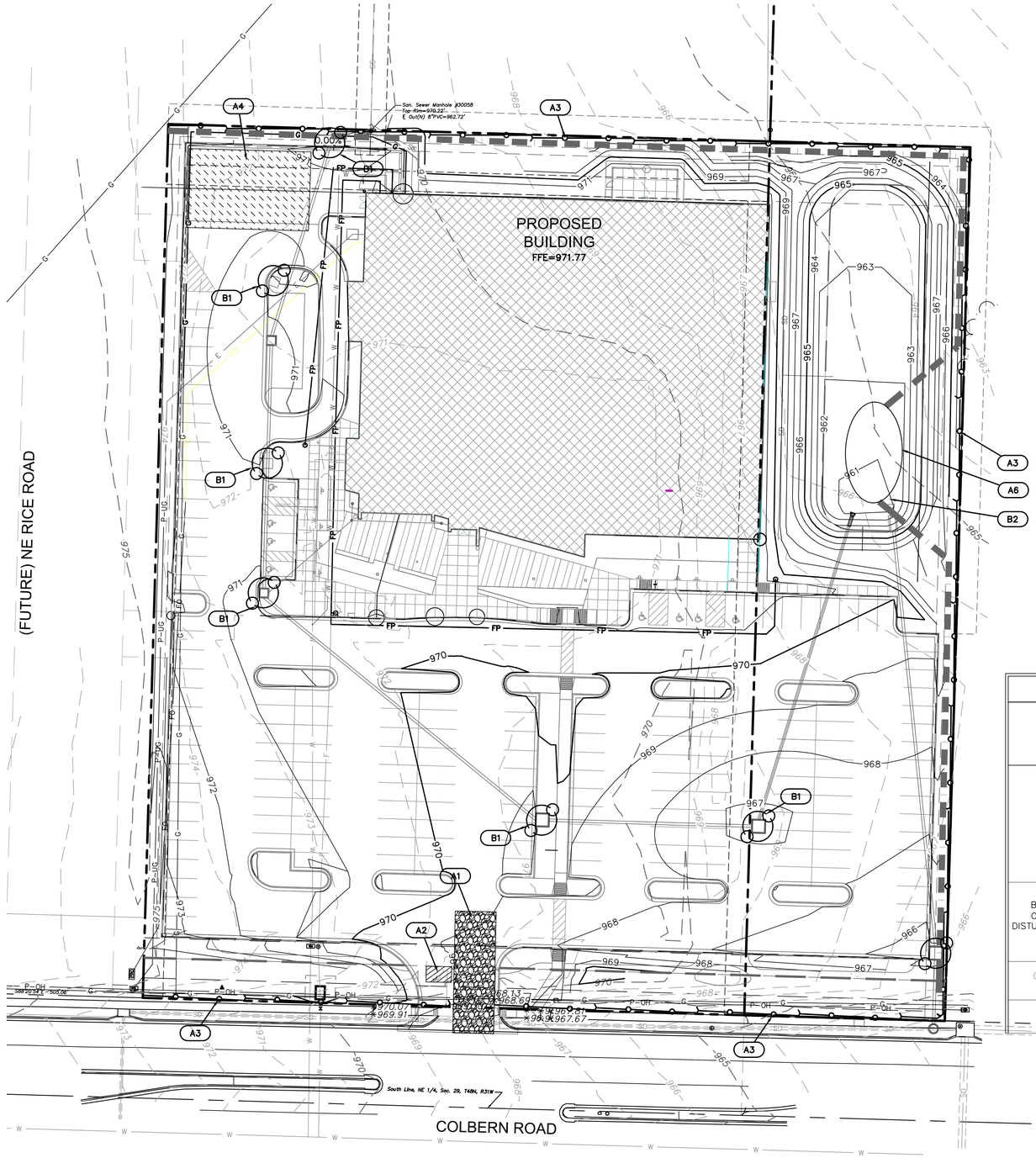

LEGEND

- RIGHT OF WAY LINE
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N

0' 15' 30' 60'
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B18-0330	02.05.20	RLK

Drawing No.

C9.1
EROSION CONTROL PLAN - CONSTRUCTION

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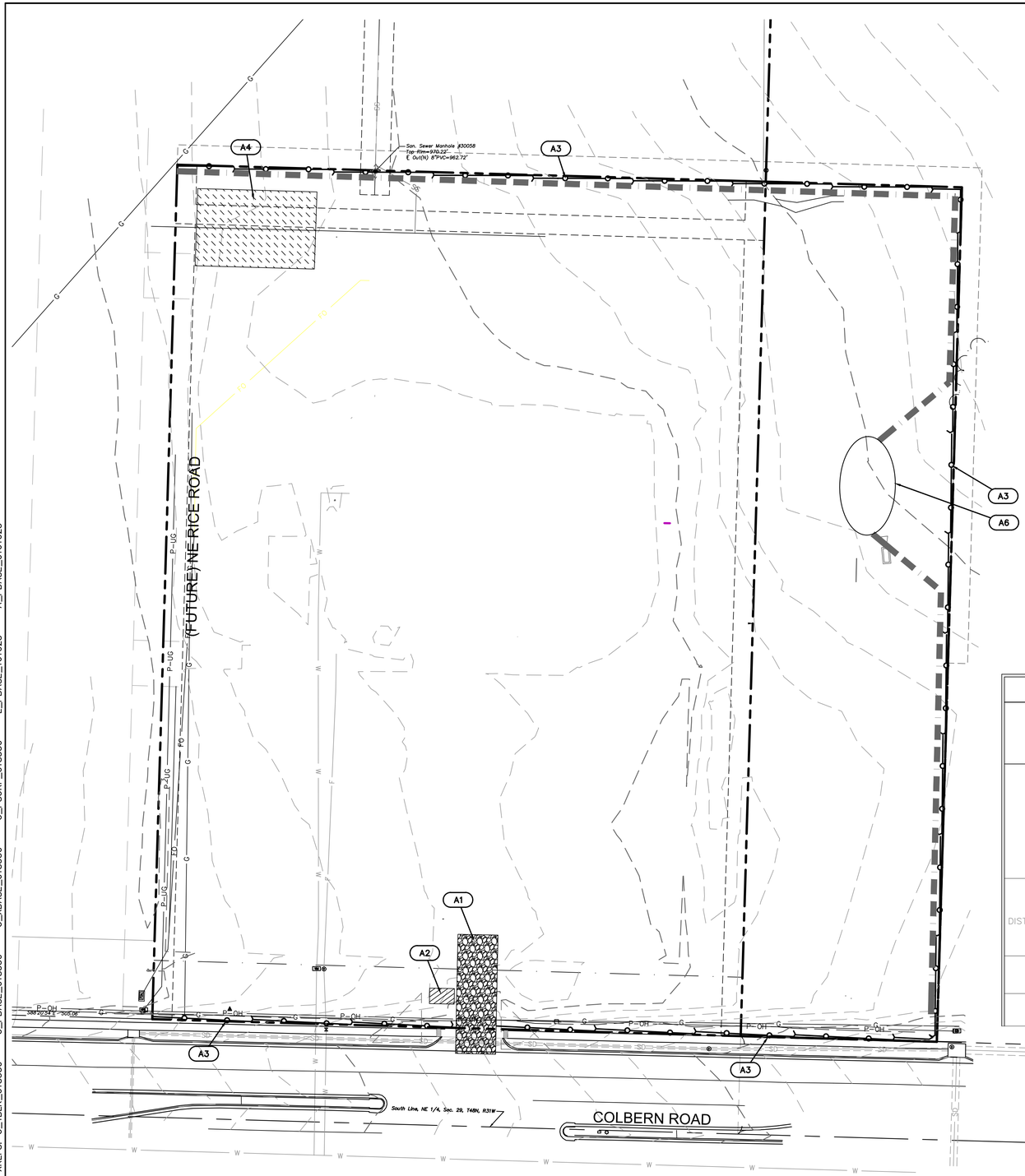

SEDIMENT TRAP DESIGN DATA

TITLE: Colbern Road Remodel
JOB #: B18-0330

Design Item:	Trap #1	Units	Notes:
Trap Data			
Distrubed Area	4.0	acres	
Drainage Area	3.32	acres	
Required Volume (1800 cf/acre)	221.3	cy	
Provided Volume	455.0	cy	
Excavated Volume	1500.0	cy	
Sediment Cleanout Volume	91.0	cy	20% OF PROVIDED VOLUME
Sediment Cleanout Elevation	959.2	ft (elev)	
Spillway Length	20.0	ft	
Sediment Cleanout Elevation	960.7	ft (elev)	

LEGEND

- RIGHT OF WAY LINE
- LOT LINE
- EXISTING GRADE CONTOUR (999)
- FINISHED GRADE CONTOUR (999)
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- SEDIMENT FENCE
- TEMPORARY 18" DIVERSION BERM (SEE DETAILS)
- LIMITS OF DISTURBANCE (XX ACRES)
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SCALE IN FEET

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Missouri State Certificate of Authority #001592

Revision No.	Description	Date

ISSUE FOR CITY REVIEW
02.10.2020

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C9.2
EROSION CONTROL PLAN - POST CONSTRUCTION

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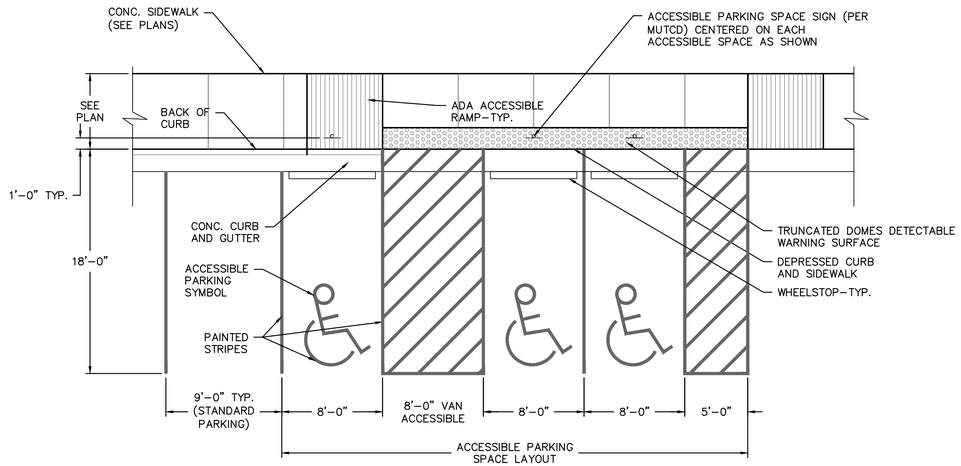
NOTE

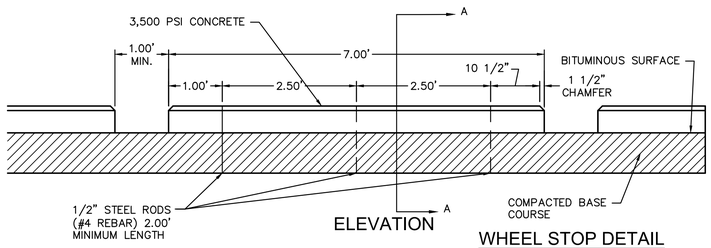
ACCESSIBLE PARKING SYMBOL AND SIGNAGE SHALL COMPLY WITH THE APPLICABLE RECOMMENDATIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



TYPICAL ADA PARKING SPACE LAYOUT DETAIL

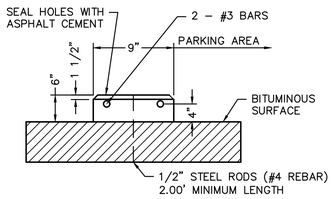
NOTE:

ANCHOR RODS TO BE SLEEVED OF GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.

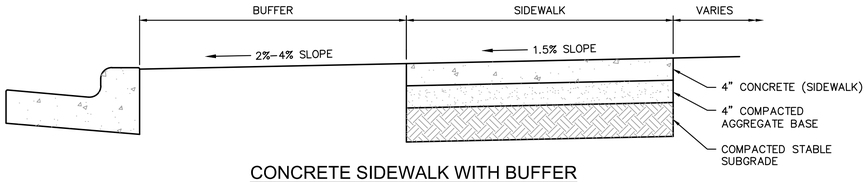


ELEVATION

WHEEL STOP DETAIL
NOT TO SCALE



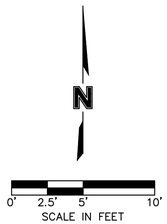
A-A

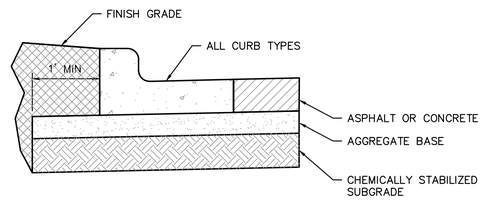


CONCRETE SIDEWALK WITH BUFFER
NOT TO SCALE

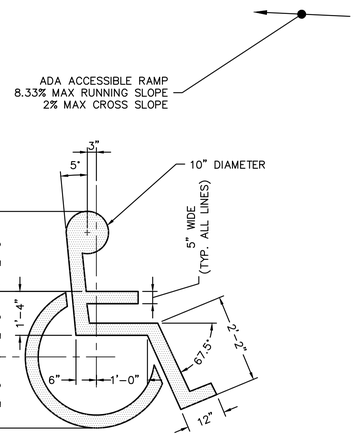
GENERAL NOTES:

1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS OR AS APPROVED BY THE CITY INSPECTOR.
4. ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG)
5. AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
6. SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.



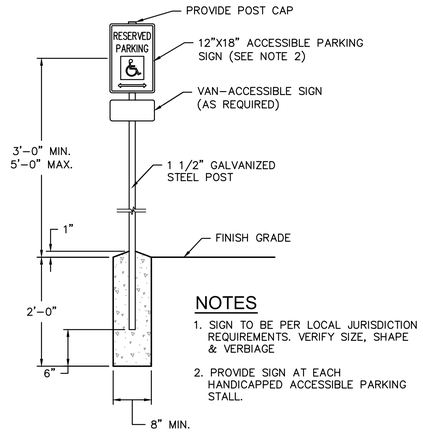


TYPICAL SUBGRADE PLACEMENT UNDER CURB
NOT TO SCALE



PROVIDE PAINTED SYMBOL AT EACH DESIGNATED ACCESSIBLE PARKING STALL. CENTER SYMBOL IN EACH STALL.

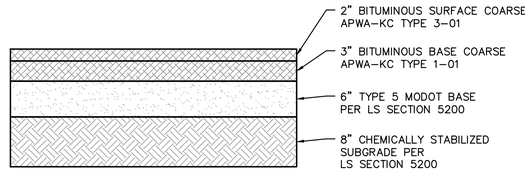
ACCESSIBLE PARKING SYMBOL
NOT TO SCALE



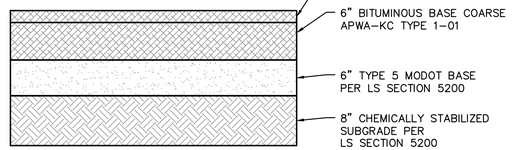
NOTES

1. SIGN TO BE PER LOCAL JURISDICTION REQUIREMENTS. VERIFY SIZE, SHAPE & VERBIAGE
2. PROVIDE SIGN AT EACH HANDICAPPED ACCESSIBLE PARKING STALL.

ACCESSIBLE PARKING SPACE SIGNAGE
NOT TO SCALE



ASPHALT PAVEMENT (LIGHT TRAFFIC) WITH AGGREGATE BASE SECTION
NOT TO SCALE



ASPHALT PAVEMENT (HEAVY TRAFFIC) WITH AGGREGATE BASE SECTION
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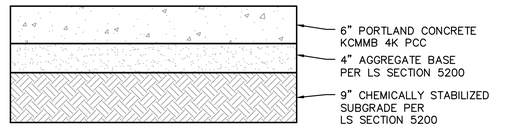
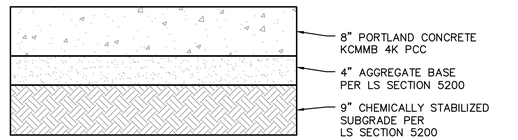


PCC PAVEMENT SECTION
NOT TO SCALE



COMMERCIAL DRIVE PAVEMENT SECTION
NOT TO SCALE

SAPP DESIGN ARCHITECTS
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1629 Walnut
Kansas City, MO 64108 816.300.0300

SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & whenever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
PRELIMINARY DEVELOPMENT PLANS FOR
COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Drawing No. **C10.0**

STANDARD DETAILS

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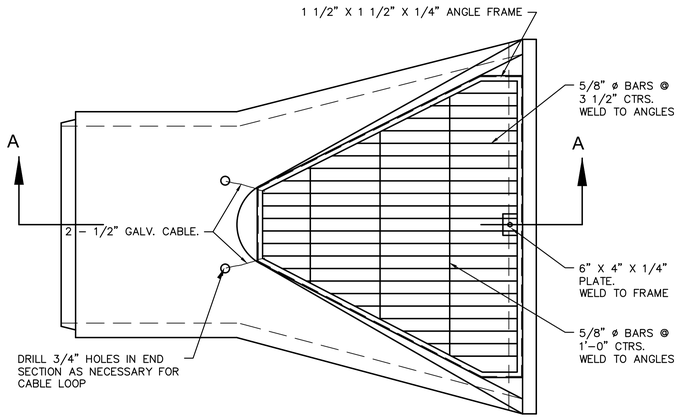
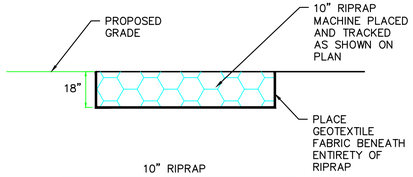


PLANVIEW

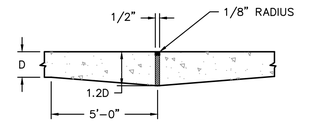


10" RIPRAP

WEIGHT OF INDIVIDUAL PIECES	MINIMUM PERCENT LARGER THAN
500 lbs.	0%
250 lbs.	50%
125 lbs.	70%
10 lbs.	90%

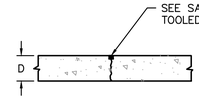
STONE RIPRAP DETAIL

NOT TO SCALE

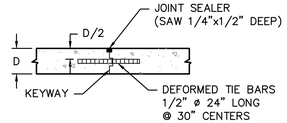


EXPANSION JOINT AT CONNECTION TO EXISTING PAVEMENT

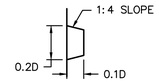
NOTE:
1. EXPANSION JOINTS TO BE USED IN ALL AREAS THAT CONCRETE PAVEMENT ABUTS BUILDING
2. 6X6X6 WELDED WIRE MESH IS TO BE USED IN ALL CONCRETE WALKS AROUND BUILDINGS.



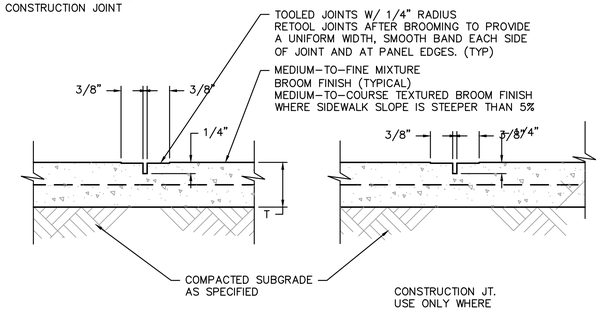
SAWED LONGITUDINAL OR TRANSVERSE



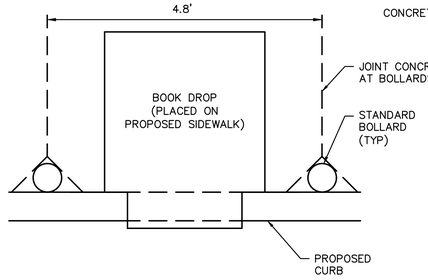
EMERGENCY TIED TRANSVERSE CONSTRUCTION JOINT
(USED AT MIDDLE THIRD NORMAL JOINT SPACING)



KEYWAYS FOR TYPE B AND F CONSTRUCTION JOINT

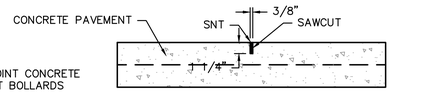


TOOLED JOINT



DROP BOX DETAIL

NOT TO SCALE

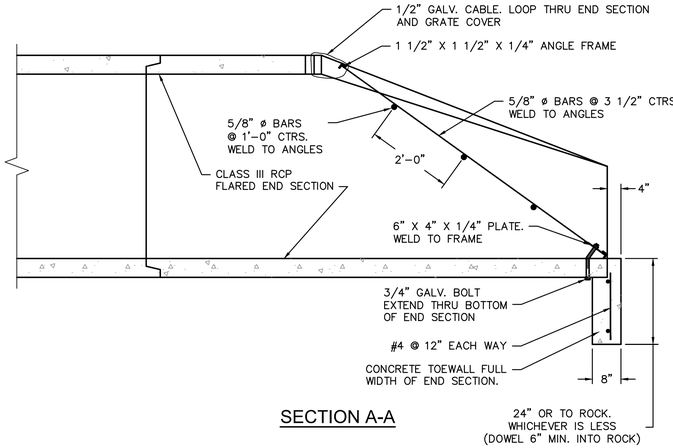


CONCRETE PAVEMENT CONTRACTION (SAWCUT) JOINT SECTION

SAWCUT JOINT

CONCRETE PAVING JOINT DETAILS

NOT TO SCALE



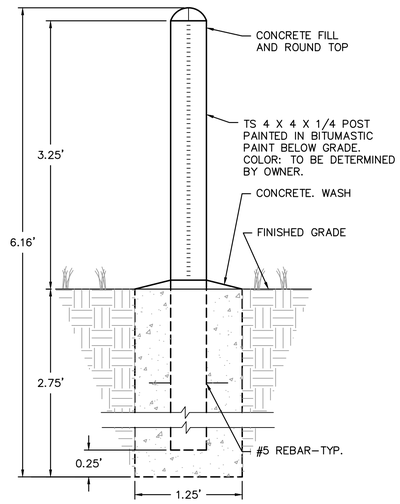
SECTION A-A

END SECTION NOTES

1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT END SECTION PROVIDED.
2. MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN 6". ADJUST DETAIL AS NECESSARY.
3. ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123.
4. USE CITY APPROVED CONCRETE THROUGHOUT.
5. ALL CONCRETE AND MATERIALS USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE GOVERNING BODY.
6. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF ±1/8" SHALL BE PERMITTED.
8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
11. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.

END SECTION TOE WALL WITH GRADE

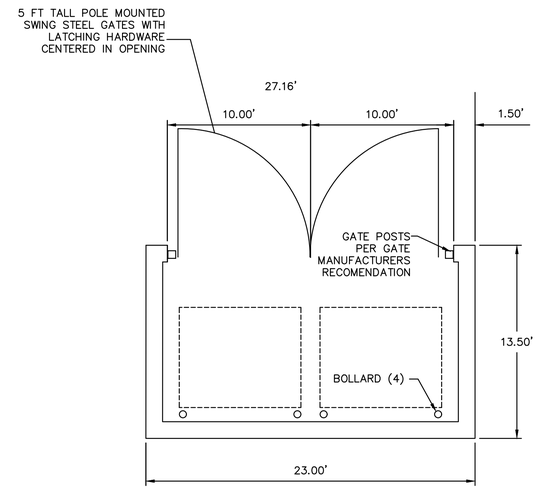
NOT TO SCALE



NOTE:
WHEN PLACED IN PAVEMENT, TOP OF CONCRETE FOUNDATION SHALL BE PLACED BELOW NEW PAVEMENT WITH 1/2 ISOLATION JOINT & SEAL.

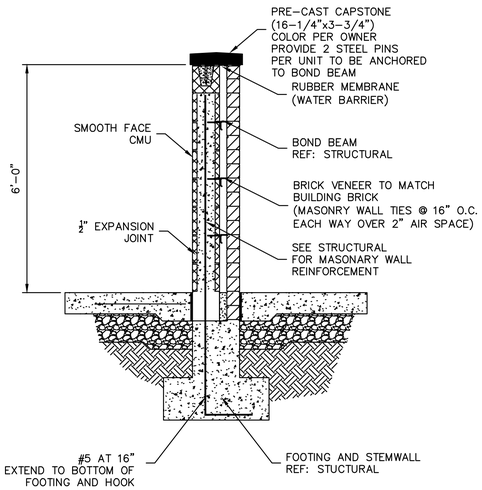
BOLLARD DETAIL

NOT TO SCALE



NOTE: ALL EXPOSED STEEL SHALL BE GALVENIZED AND EPOXY PAINTED. COLOR TO BE DETERMINED BY THE OWNER.

PLAN



TYPICAL WALL SECTION

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Missouri State Certificate of Authority #000607

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Kansas City, MO 64108 816.300.0300

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
PRELIMINARY DEVELOPMENT PLANS FOR
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JACKSON COUNTY

PACKAGE 10

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Drawing No. **C10.1**

STANDARD DETAILS

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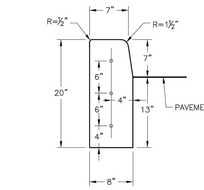
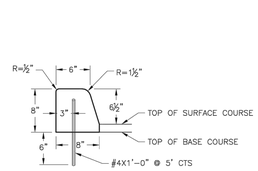
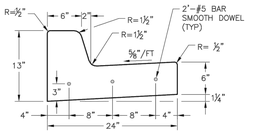


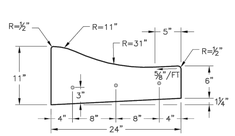
STRAIGHT CURB
(TYPE C-1)



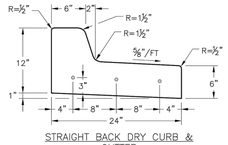
DOWELLED CURB
(TYPE DC)



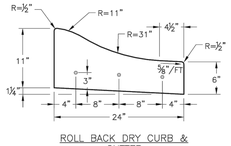
STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



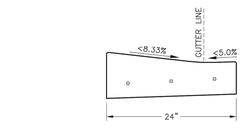
ROLL BACK CURB & GUTTER
(TYPE CG-2)



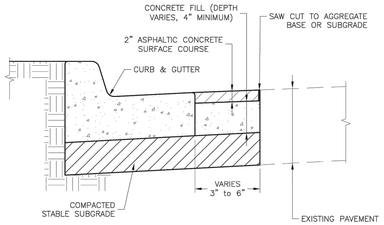
STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)



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



CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



CURB REPLACEMENT DETAIL

GENERAL NOTES

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

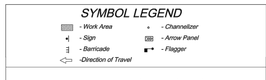
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION / 220 SE GREEN STREET / LEE'S SUMMIT, MO 64063

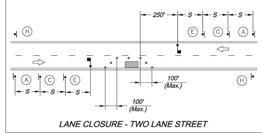
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Project: CURB & GUTTER DETAIL
Sheet Name:

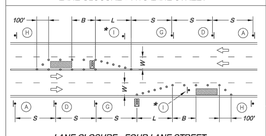
Drawn By: MJF
Checked By: DL
Date: 04/13
Proj. #:

GEN-4

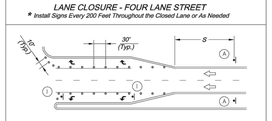




LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



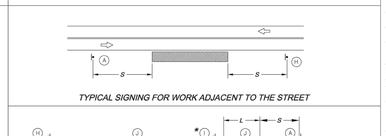
TURN LANE CLOSURE

Sign Spacing "S"	
Speed Limit (mph)	Spacing (Feet)
25	100
30 - 35	250
≥ 40	350

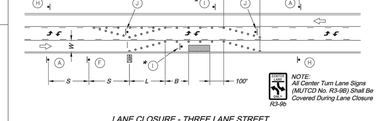
Taper Dimensions (Feet)				
Speed Limit (mph)	Minimum Taper Length "L" per Lane Width "W"			Minimum Number of Channelizers
	10	11	12	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

Maximum Channelizer Spacing			
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)	
25	25	50	
30	30	60	
35	35	70	
40	40	80	
45	45	90	

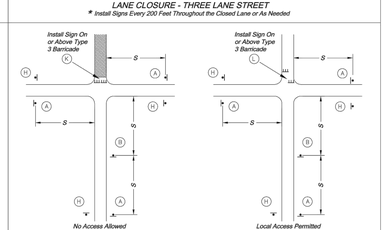


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed

NOTE: All Center Turn Lane Signs (MUTCD No. R3-9B) Shall Be Covered During Lane Closure



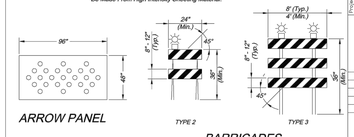
TYPICAL STREET CLOSURE

GENERAL NOTES:

1. All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
2. All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectorized. All signs shall be securely mounted with height and lateral location as described in the MUTCD.
3. Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
4. Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire, and behavior.
5. Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
6. Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
7. The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
8. Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
9. No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on plans approved by the City Traffic Engineer.
10. Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
11. Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
12. The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
13. All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
14. All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
15. The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
16. No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
17. The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
18. The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
19. Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
   A) Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate,
   B) Stop the work until deficiencies are corrected,
   C) Suspend all pay estimates until deficiencies are corrected, or
   D) Place the Contractor in default.

CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



ARROW PANEL TYPE 2 TYPE 3 BARRICADES

VIC OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

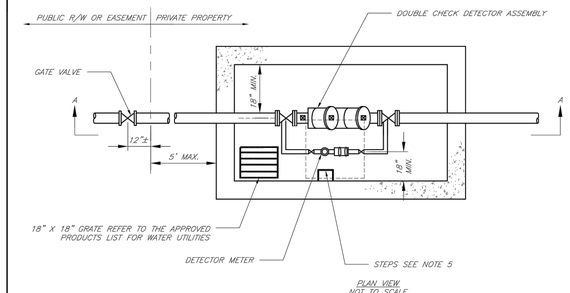
TRAFFIC CONTROL DETAILS

Project:
Sheet Name: STANDARD DRAWING TC-1

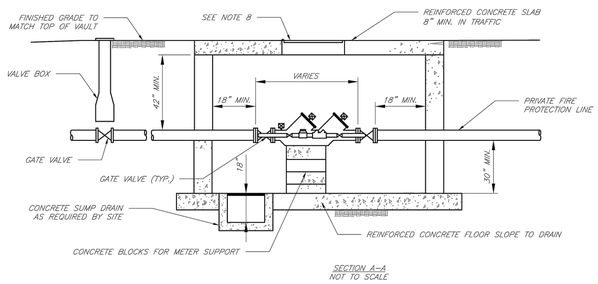
Drawn By: JJW
Checked By: MF
Date: 12-10-2008
Project No.: X

x OF x

X



PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE

GENERAL NOTES:

1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE. METER VAULT ROOF TO BE REINFORCED CONCRETE WITH OPENING CENTERED OVER DETECTOR METER. REINFORCED WALLS AND SLABS ARE TO BE DESIGNED BY THE OWNER'S ENGINEER OR PRECAST ENGINEER.
2. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA AND WHERE SURFACE WATER WILL NOT DRAIN INTO IT. PROVIDE CONCRETE SUMP TO DRAIN TO AN ABOVE GROUND DISCHARGE POINT.
3. ALL FIRE AND FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
4. ALL FITTINGS FOR THE DETECTOR METER TO BE BRASS.
5. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
6. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT WATER UTILITIES AT 816-969-1900.
7. ALL VALVES SHALL HAVE RISING STEMS.
8. MANHOLE COVER SHALL BE A BILCO K-1 MODEL UNLESS IN A VEHICLE TRAFFIC AREA. SEE THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR TRAFFIC CONDITIONS. THE COVER SHALL HAVE A 1-3/4" ø HOLE DRILLED FOR A TOUCH/READ DEVICE.
9. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
10. CONTACT PUBLIC WORKS ENGINEERING FOR VAULTS THAT INCLUDE A FIRE DEPARTMENT CONNECTION OR A 3" OR LARGER METER.

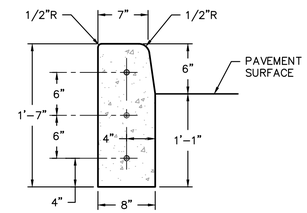
CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
LEE'S SUMMIT, MO

Project: STANDARD DRAWINGS
Sheet Name: VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn By: AS
Checked By: DL
Date: 1/14
Rev: 1/14

or

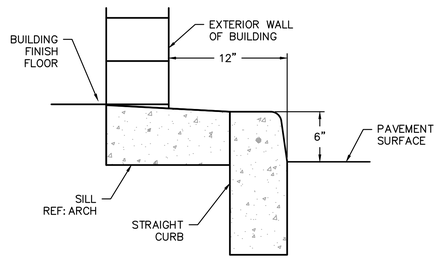
WAT-12



STRAIGHT CURB
NOT TO SCALE

STRAIGHT CURB NOTES:

1. ONE-HALF INCH (1/2") EXPANSION JOINTS WITH FIVE-EIGHTHS INCH (5/8") DIAMETER SMOOTH DOWELS TWO FOOT (2') LONG, SPACED AS SHOWN, SHALL BE PLACED AT RADIUS POINTS AND AT ONE HUNDRED FEET (100') INTERVALS. THE DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES. FIX DOWELS WITH BAR SUPPORTS.
2. ONE INCH (1") DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY TEN FEET (10') INTERVALS. THE CONTRACTION JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. DEPTH OF CURB SHALL BE A MINIMUM OF EIGHT INCHES (8") THROUGH THE WHEELCHAIR ACCESS RAMPS.



PROTECTION CURB
NOT TO SCALE

SAPP DESIGN ARCHITECTS
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Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

helix.
1629 Walnut
Kansas City, MO 64108 816.300.0300

SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
PRELIMINARY DEVELOPMENT PLANS FOR
COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record
STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2018010505
12-18-2020
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

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Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date

ISSUE FOR CITY REVIEW
02.10.2020

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C10.2
STANDARD DETAILS

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DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV WORK PACKAGE 4\LEES SUMMIT\C_DTL_80330 TO CR.dwg USER: tparsons
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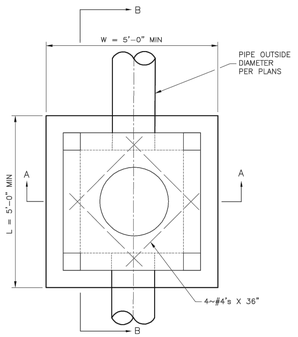
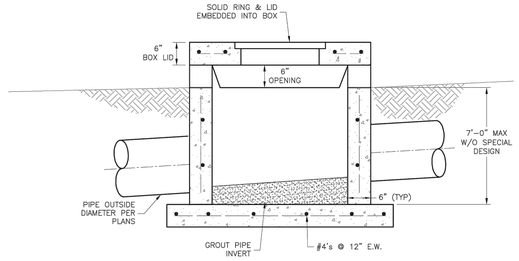
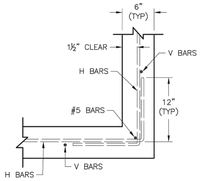


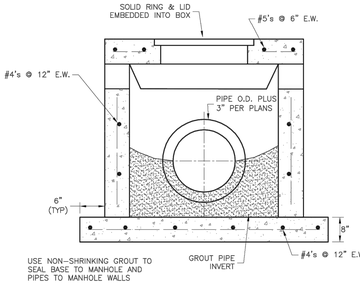
PLAN VIEW



SECTION B-B



WALL CORNER DETAIL



SECTION A-A

GENERAL NOTES:

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

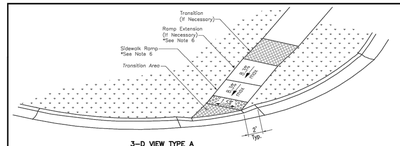
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

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

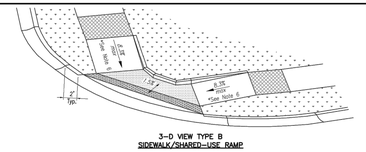
Sheet Name: FIELD INLET DETAIL

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

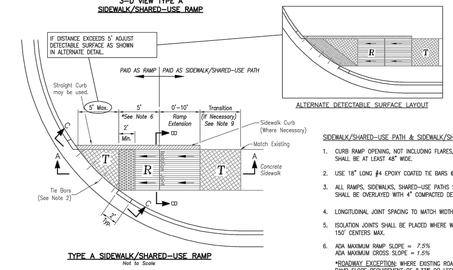
STM-2



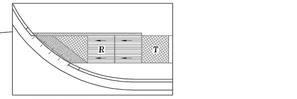
3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP



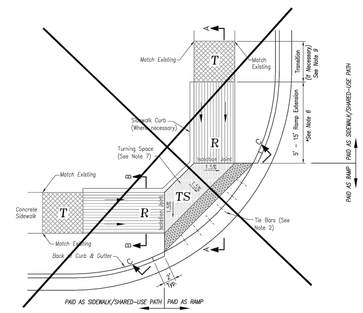
3-D VIEW TYPE B
SIDEWALK/SHARED-USE RAMP



TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale



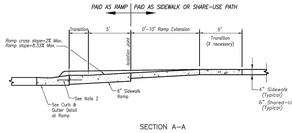
ALTERNATE DETECTABLE SURFACE LAYOUT



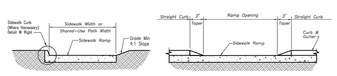
TYPE B SIDEWALK/SHARED-USE RAMP
Not to Scale

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

1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = *7.5%*
   ADA MAXIMUM CROSS SLOPE = *1.5%*
   *ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL *A MAXIMUM OF 1.5%.*
7. TURNING SPACES SHALL BE *1.5% MAX* SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. *ALL SPOT ELEVATION, SLOPES, AND DETECTABLE SURFACE PLACEMENT WILL MATCH THE SPECIFIC GRADING DETAIL PROVIDED FOR EACH RAMP*
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

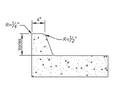


SECTION A-A



SECTION B-B SECTION C-C

TYPE A & B SIDEWALK RAMP
Not to Scale



SIDEWALK CURB DETAIL
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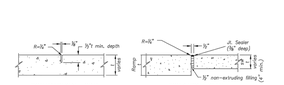


CONTRACTION JOINT

ISOLATION JOINT

JOINT DETAILS
Not to Scale

CURB & GUTTER DETAIL AT RAMP
Not to Scale

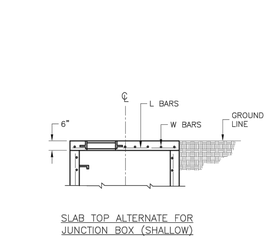
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

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

Sheet Name: ADA RAMP ~~RETROFIT~~ DETAIL

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

GEN-3A



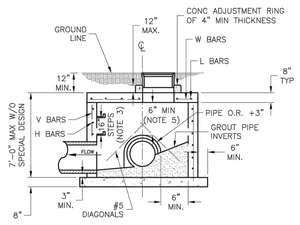
PLAN

SLAB TOP ALTERNATE FOR JUNCTION BOX (SHALLOW)

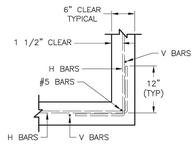
** INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

REINFORCING

BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6



SECTION A-A



WALL CORNER DETAIL

GENERAL NOTES:

1. LOCATE RING AND COVER ON BLANK WALL.
2. USE ¾" CHAMFER STRIP OR ½" R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

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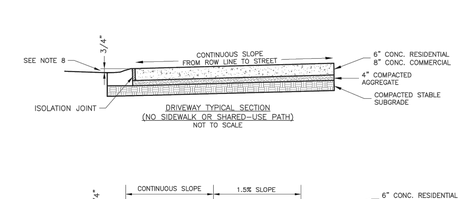
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

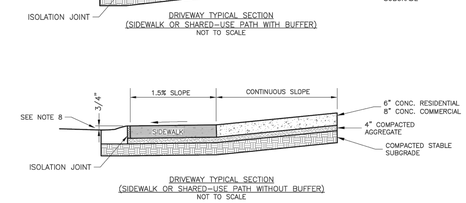
Sheet Name: JUNCTION BOX DETAIL

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

STM-3



DRIVEWAY WITH BUFFER
NOT TO SCALE

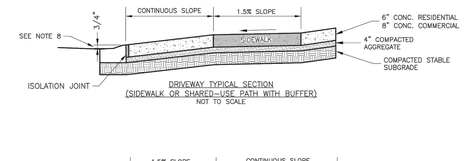


DRIVEWAY WITHOUT BUFFER
NOT TO SCALE

GENERAL NOTES

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

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



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

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

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

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

Sheet Name: DRIVEWAY DETAIL

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

GEN-1

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Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

helix.
1629 Walnut
Kansas City, MO 64108 816.300.0300

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In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date

ISSUE FOR CITY REVIEW
02.10.2020

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C10.3
STANDARD DETAILS

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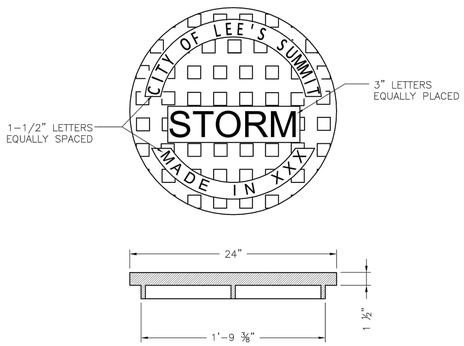


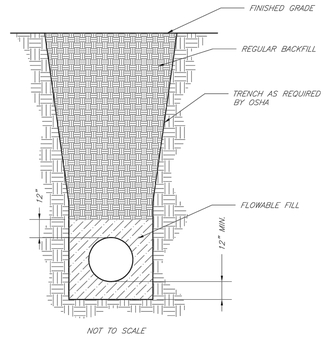
STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

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

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

STORM MANHOLE COVER DETAIL

Date:	04/17
Drawn By:	MJF
Checked By:	DL
	STM-6



NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

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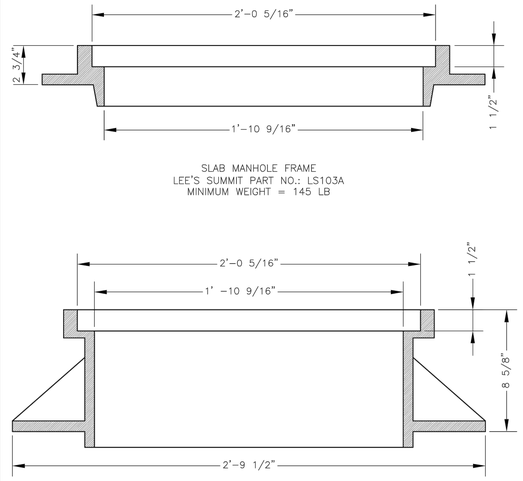
TRENCH CHECK

Date:	02/13
Drawn By:	JN
Checked By:	DL
FILE:	WAT-6
Rev:	1/14
Rev:	



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

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

LEE'S SUMMIT
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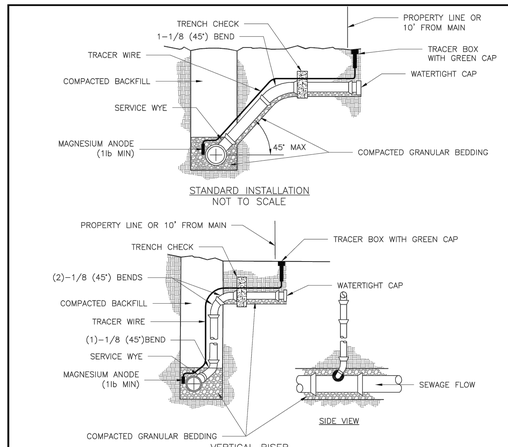
STORM MANHOLE FRAME DETAIL

Date:	04/17
Drawn By:	MJF
Checked By:	DL
	STM-7



NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

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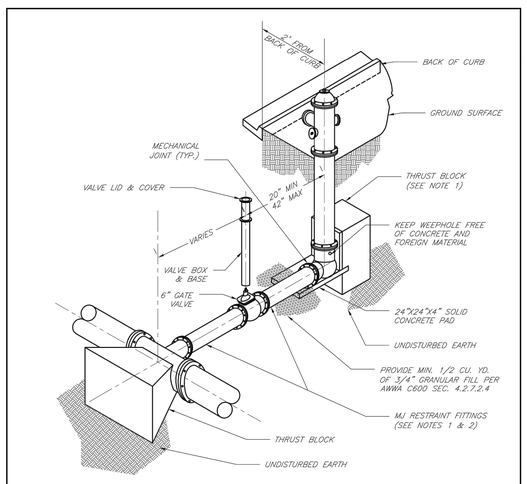
BUILDING SEWER STUB AND RISER

Date:	04/17
Drawn By:	MJF
Checked By:	DL
	SAN-1



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

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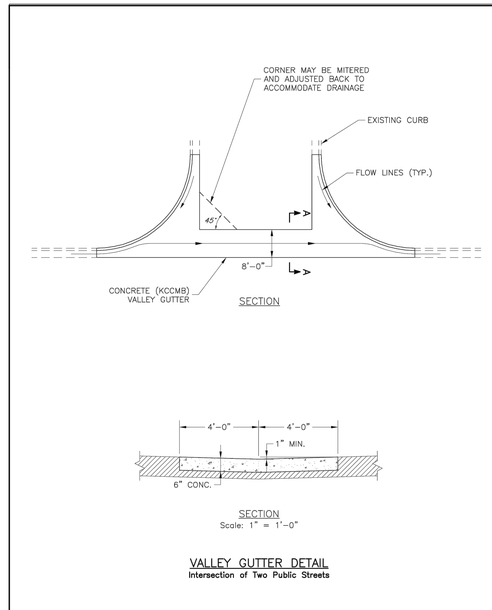
HYDRANT INSTALLATION – STRAIGHT SET

Date:	02/13
Drawn By:	JN
Checked By:	DL
FILE:	WAT-7
Rev:	1/14
Rev:	



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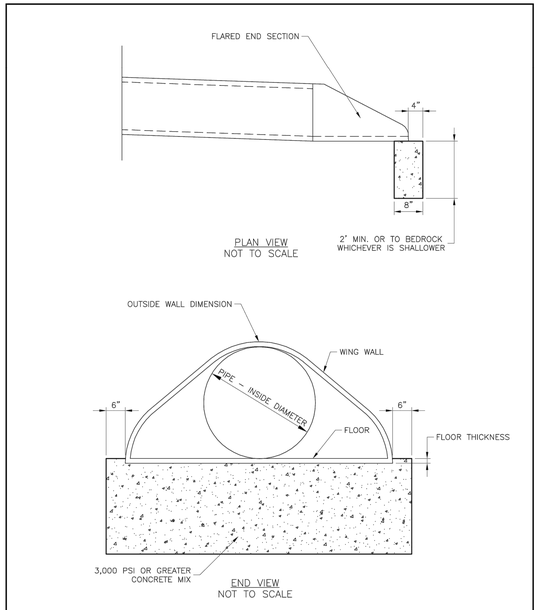
VALLEY GUTTER DETAIL

Date:	04/17
Drawn By:	MJF
Checked By:	DL
	GEN-7



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

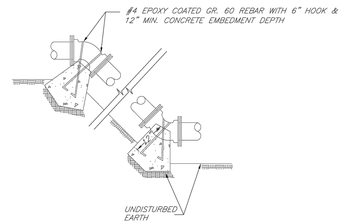
FLARED END SECTION SUPPORT DETAIL

Date:	04/17
Drawn By:	MJF
Checked By:	DL
	STM-5

REQUIRED CONCRETE VOLUME (CUBIC FEET – CF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4

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



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VERTICAL THRUST BLOCKS

Date:	02/13
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Rev:	1/14
Rev:	

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JACKSON COUNTY

PACKAGE 10

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date

ISSUE FOR CITY REVIEW
02.10.2020

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C10.4
STANDARD DETAILS

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DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 4\LEE'S SUMMIT\C_DTL_80330 TO CR.dwg USER: tparsons
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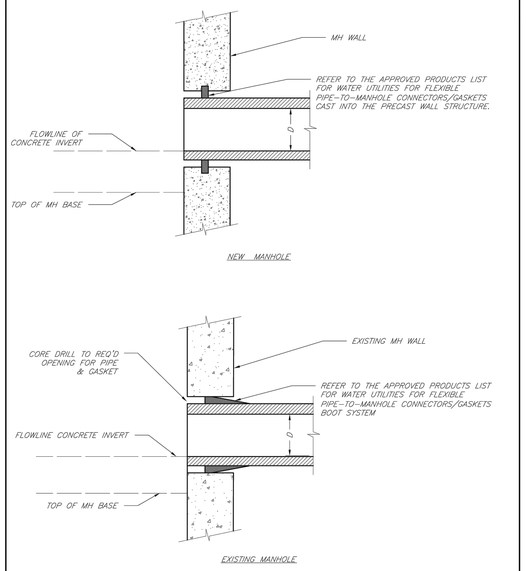
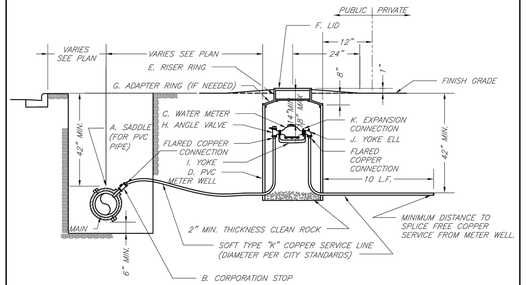


LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

MANHOLE WALL CONNECTIONS

Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: SAN-5 | Rev: 1/14 | Rev:



TYPICAL METER INSTALLATION – 2" AND SMALLER
NOT TO SCALE

NOTES:

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

LEE'S SUMMIT
MISSOURI
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SERVICE CONNECTION/METER WELL

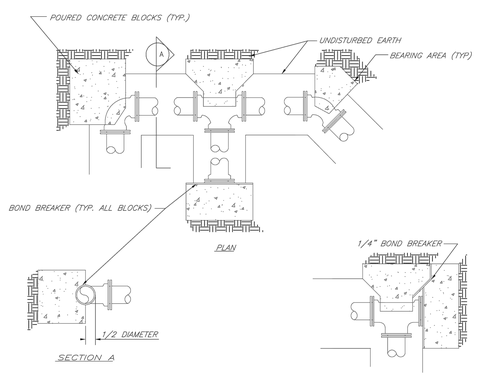
Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-11 | Rev: 1/14 | Rev:

REQUIRED CONCRETE BEARING AREA (SQUARE FEET – SF)

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

NOTES:

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



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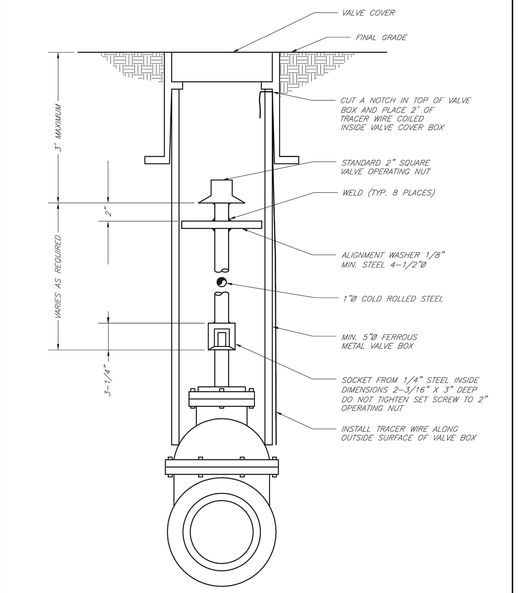
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HORIZONTAL THRUST BLOCKS

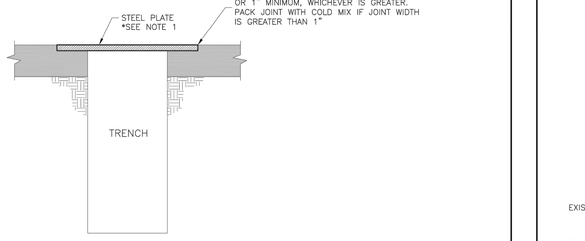
Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-1 | Rev: 1/14 | Rev:



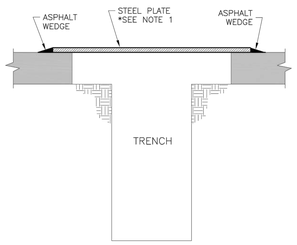
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

VALVE STEM EXTENSION AND VALVE BOX

Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-9 | Rev: 1/14 | Rev:



TYPE "A" PLATING
NOT TO SCALE
(CITY POSTED SPEEDS OF 35 MPH AND GREATER)



TYPE "B" PLATING
NOT TO SCALE
(CITY POSTED SPEEDS OF 30 MPH OR LESS)

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE OVERLAP OF PLATE ON ASPHALT TO ASSURE NO SLIPPAGE OF PLATE AND NO COLLAPSING OF TRENCH.
2. ALL PLATES SHALL BE ANCHORED SO PLATES DO NOT MOVE OR SHIFT UNDER TRAFFIC.

LEE'S SUMMIT
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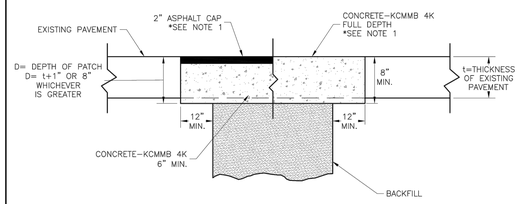
TRENCHING PLATE DETAIL

Date: 04/17 | Drawn By: MJF | Checked By: DL | GEN-6



TRENCHING/PATCHING DETAIL
NOT TO SCALE

NOTE:

1. ASPHALT CAP OR FULL DEPTH CONCRETE SHALL BE DETERMINED BY CITY INSPECTOR.

LEE'S SUMMIT
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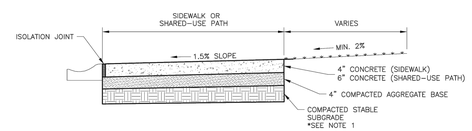
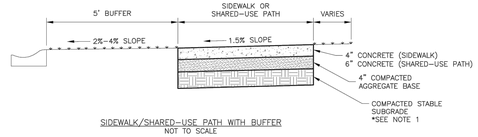
TRENCHING/PATCHING ROADWAYS DETAIL

Date: 04/17 | Drawn By: MJF | Checked By: DL | GEN-5



SIDEWALK/SHARED-USE PATH WITHOUT BUFFER
NOT TO SCALE



SIDEWALK/SHARED-USE PATH WITH BUFFER
NOT TO SCALE

GENERAL NOTES:

1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS AND SHARED-USE PATHS OR AS APPROVED BY THE CITY INSPECTOR.
4. ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
6. SHARED-USE PATH WIDTH SHALL BE 10 FT. WIDE.
7. SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

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

SIDEWALK/SHARED-USE PATH DETAIL

Date: 04/17 | Drawn By: MJF | Checked By: DL | GEN-2

SAPP DESIGN ARCHITECTS
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1629 Walnut
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Mid-Continent Public Library
PRELIMINARY DEVELOPMENT PLANS FOR
COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date

ISSUE FOR CITY REVIEW
02.10.2020

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No. **C10.5**

STANDARD DETAILS

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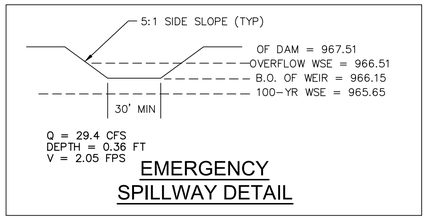
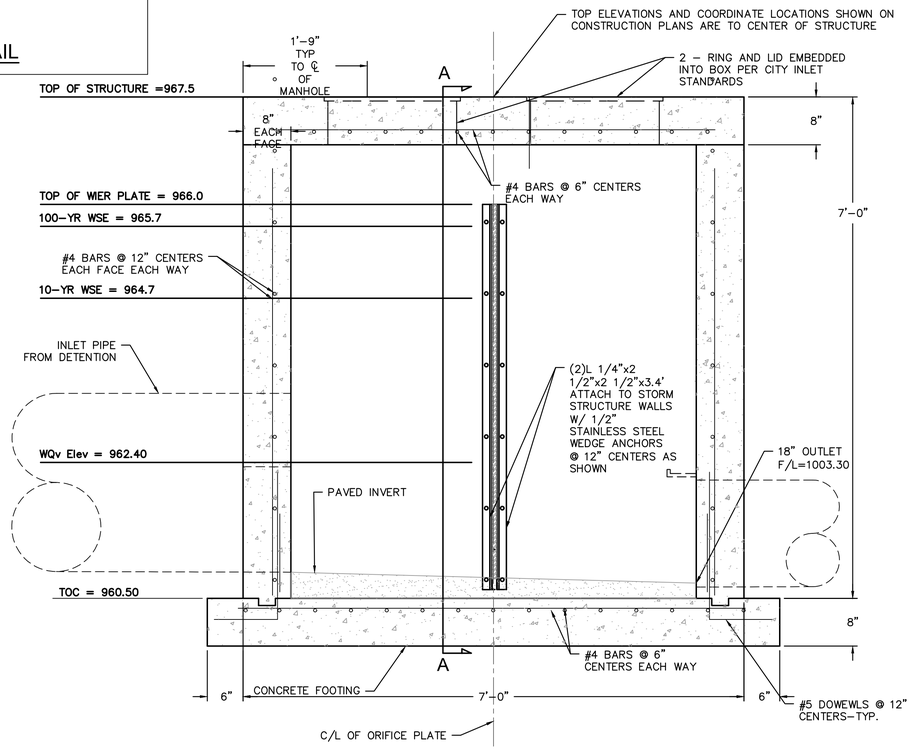
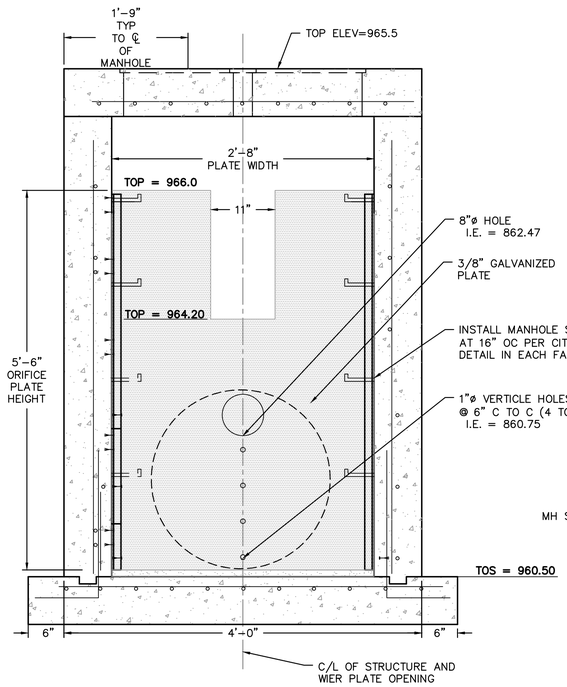


EMERGENCY SPILLWAY DETAIL





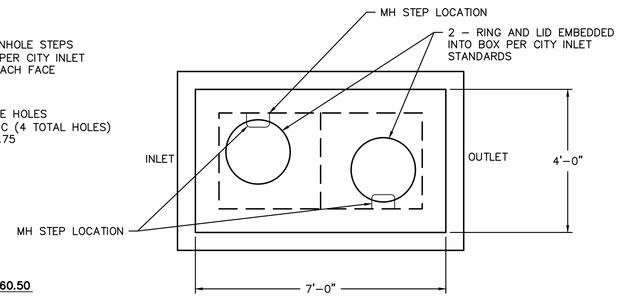
SECTION A-A

CONTROL STRUCTURE DETAILS

NOT TO SCALE

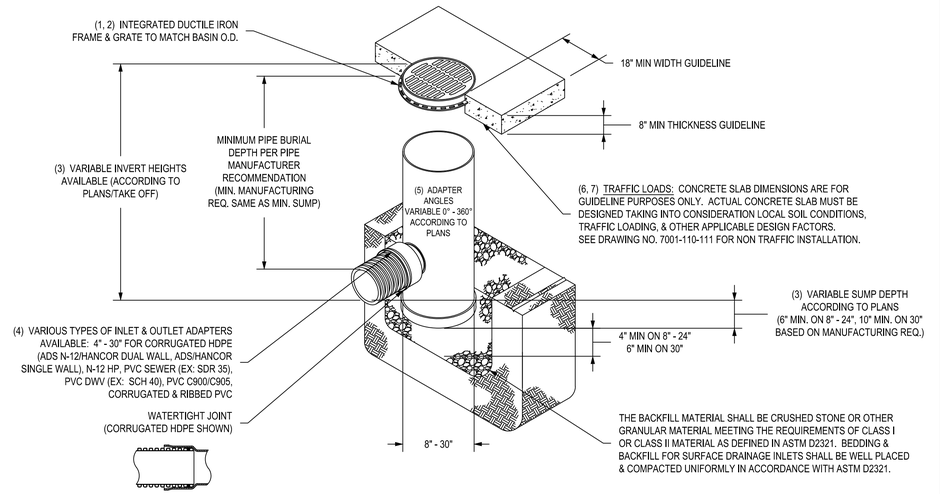
NOTES

1. 5,000 PSI KCMMB CONCRETE SHALL BE USED FOR STRUCTURES WITH ORIFICE PLATE
2. STRUCTURES MAY BE PRE-CAST OR CAST IN PLACE AT THE CONTRACTOR'S OPTION. FOR PRE-CAST CONSTRUCTION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE DESIGN ENGINEER, AND PROVIDE A COPY OF THE APPROVED SHOP DRAWINGS TO THE CITY.



PLAN VIEW

NYLOPLAST DRAIN BASIN WITH STANDARD GRATE



1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO, 7001-110-012.
6 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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DRAWN BY	EBC	MATERIAL	Nyloplast 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	1-23-06		
REVISED BY	CCA	PROJECT NO./NAME	TITLE: DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL
DATE	12-29-11		
DWG SIZE	A	SCALE 1:40 SHEET 1 OF 1	DWG NO. 7001-110-144 REV G

Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

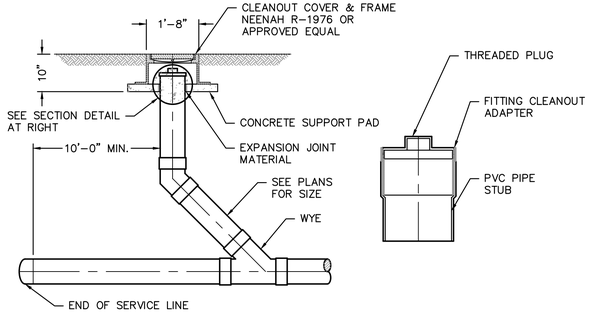
MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



ONE-WAY WYE CLEANOUT DETAIL

NOT TO SCALE

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1629 Walnut
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Mid-Continent Public Library
PRELIMINARY DEVELOPMENT PLANS FOR
COLBERN ROAD BRANCH
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LEE'S SUMMIT, MO 64086
JACKSON COUNTY
PACKAGE 10

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date
	ISSUE FOR CITY REVIEW	02.10.2020

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No. **C10.6**

STANDARD DETAILS

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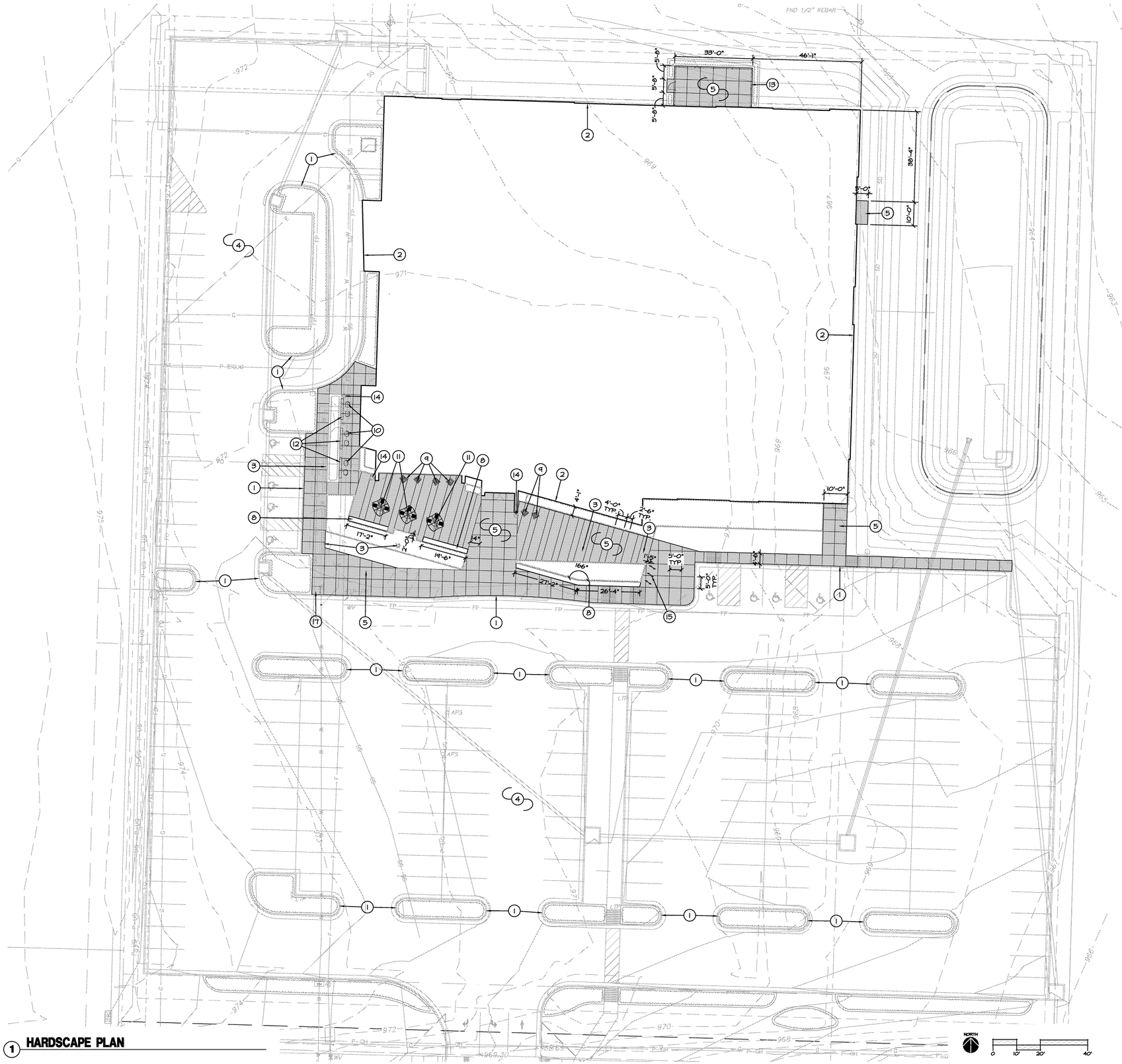

1 **HARDSCAPE PLAN**

GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF LEES SUMMIT, MISSOURI IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE CITY SHALL BE APWA STANDARDS IN CURRENT USAGE UNLESS OTHERWISE NOTED.
2. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE UTILITY INFORMATION IS NOT MEANT TO BE ALL INCLUSIVE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION TO PROVIDE NON-INTERRUPTION OF SERVICE, TO ENSURE PROPER CLEARANCES, AND TO AVOID DAMAGE THERETO.
3. CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO, AND ACCEPT THE SITE CONDITIONS TO BE ENCOUNTERED.
4. WHERE THE NEW IMPROVEMENTS ABUT EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING THE ELEVATION OF THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL PROVIDE A SECURE SITE TO PROTECT VEHICLES AND PEDESTRIANS FROM ACCIDENTAL FALLS AND HARM FROM THE CONSTRUCTION PROCESS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DE-MATERING CONSTRUCTION AREAS IN ORDER TO PERMIT CONTINUATION OF THE WORK. ANY WATER ACCUMULATION SHALL BE REMOVED BY PUMPING.
7. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OR MATERIALS AS SHOWN IN THESE PLANS. CONTRACTOR SHALL ACCOMMODATE ALL SLOPE AND GRADE CONDITIONS IN THEIR CALCULATION OF MATERIAL QUANTITIES FOR ALL WORK SHOWN ON THESE PLANS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. OWNER SHALL APPROVE MEASURES USED TO ALLOW TENANTS AND SHOPPERS PROPER ACCESS DURING CONSTRUCTION.

HARDSCAPE LEGEND:

RIGHT OF WAY / PROPERTY LINE

GRAY CONCRETE PAVING

HARDSCAPE PLAN NOTES:

1. BACK OF CURB; REF: CIVIL PLANS
2. BUILDING FACADE; REF: ARCHITECTURAL PLANS
3. BUILDING COLUMN; REF: ARCHITECTURAL PLANS
4. PARKING LOT; REF: CIVIL PLANS
5. CONSTRUCT GRAY CONCRETE PAVING; REF: 1/L400
6. INSTALL EXPANSION JOINT; REF: 2/L400
7. INSTALL CONTROL JOINT; REF: 2/L400
8. INSTALL CAST IN PLACE BENCH; REF: 3 & 4/L400
9. TYPICAL LOUNGE CHAIR; REF: 1/L401
10. TYPICAL TALL STOOL SEATING; REF: 2/L401
11. TYPICAL TABLE AND UMBRELLA; REF: 4 & 6 /L401
12. TYPICAL TALL TABLE; REF: 3/L401
13. TYPICAL FENCE; REF: 5/L400
14. TRASH RECEPTACLE; REF: 5/L401
15. BIKE RACKS; REF: 7/L401
16. ROCK MULCH BED
17. BOOK DROP

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Mid-Continent Public Library
RENOVATIONS TO
COLBERN ROAD BRANCH
1000 NE Colbern Road
Lee's Summit, Missouri 64086
Jackson County

100% CD SET PACKAGE **10**

STATE OF MISSOURI
KOREY P. SCHULZ
NUMBER LA-2002010605
LANDSCAPE ARCHITECT
12-2019

ochsner hare + hare
the olsson studio
Ochsner Hare & Hare
Missouri State Certificate of Authority #2005000285

Revision No.	Description	Date

Project No.	Date	Drawn
016-1023	12/23/19	TG

Drawing No.
L200
HARDSCAPE PLAN

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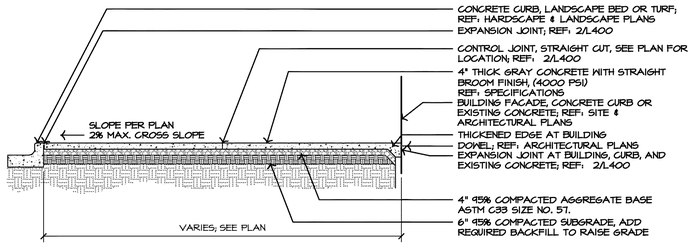
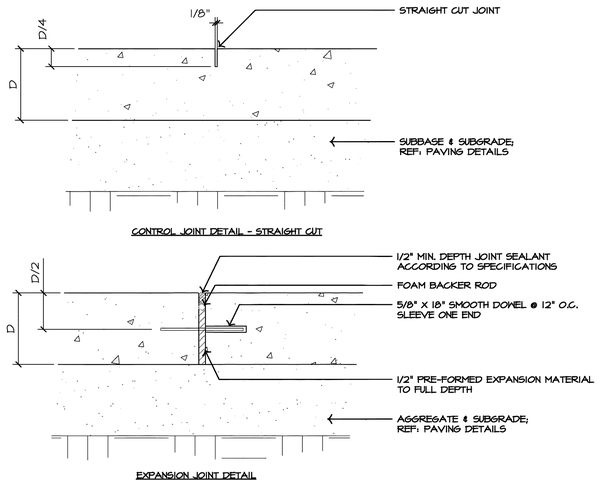
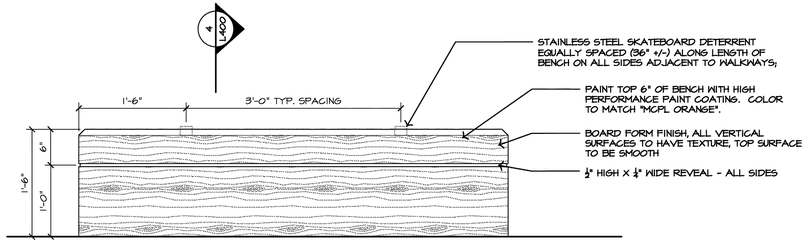


NOTES:
1. EXPANSION JOINTS SHALL BE PLACED AT RADIAL POINTS AND WHERE SIDEWALKS & PEDESTRIAN CONCRETE PAVING ABUTS CONCRETE CURB, DRIVEWAYS AND SIMILAR STRUCTURES. JOINTS TO BE PLACED AT INTERVALS WITH NOT MORE THAN 100' CENTERS.
2. THE PEDESTRIAN CONCRETE PAVING SURFACE SHALL BE MARKED OFF AS SHOWN ON PLANS BY CONTROL JOINTS.
3. PROPOSED JOINTS SHALL BE "V" CUT JOINTS IN PAVEMENT AS SHOWN ON PLANS.
4. BROOM FINISH SHALL BE PERPENDICULAR TO BUILDING FACADE.

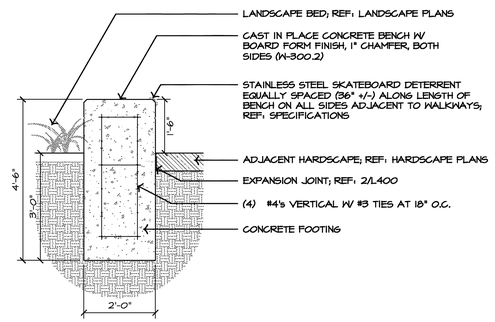
1 TYPICAL GRAY CONCRETE - BROOM FINISH



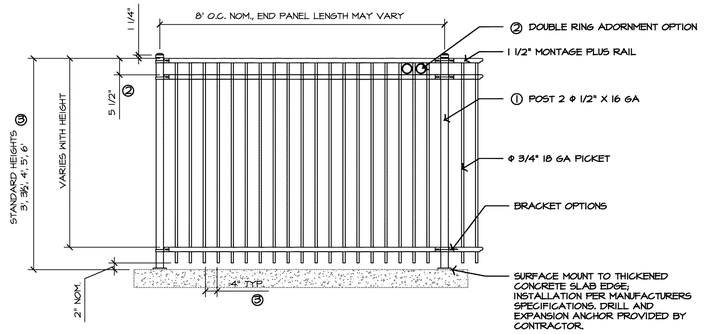
2 TYPICAL CONCRETE JOINTS



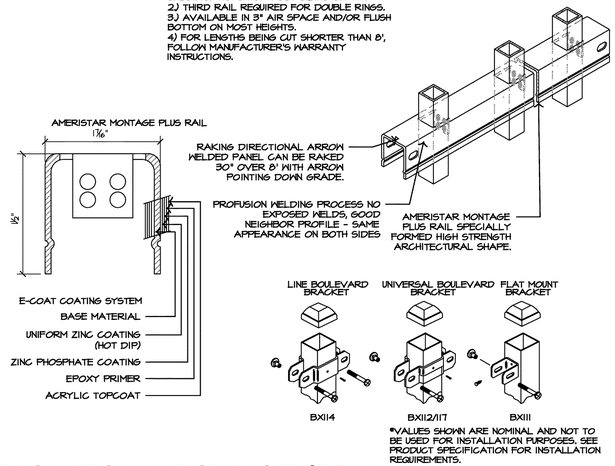
3 TYPICAL CAST IN PLACE CONCRETE BENCH ELEVATION



4 TYPICAL CAST IN PLACE CONCRETE BENCH SECTION



NOTES:
1) POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. SEE MONTAGE PLUS SPECIFICATIONS FOR POST SIZING CHART.
2) THIRD RAIL REQUIRED FOR DOUBLE RINGS.
3) AVAILABLE IN 3" AIR SPACE AND/OR FLUSH BOTTOM ON MOST HEIGHTS.
4) FOR LENGTHS BEING CUT SHORTER THAN 8', FOLLOW MANUFACTURER'S WARRANTY INSTRUCTIONS.



*VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION FOR INSTALLATION REQUIREMENTS.

5 TYPICAL FENCE - AMERISTAR MONTAGE PLUS

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100% CD SET PACKAGE 10

STATE OF MISSOURI
KOREY P. SCHULZ
NUMBER A-LA-2002030605
LANDSCAPE ARCHITECT
12-20-19

ochsner hare + hare
the olsson studio

Ochsner Hare & Hare
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Revision No.	Description	Date

Project No.	Date	Drawn
016-1023	12/23/19	TG

Drawing No.
L400
HARDSCAPE DETAILS

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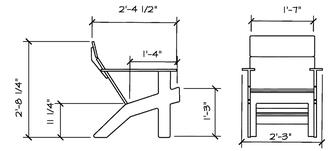


PROVIDED BY OWNER'S FFE VENDOR. NO INSTALLATION OR ASSEMBLY BY GC.

1 TYPICAL LOUNGE CHAIR - LOLLY TALL LOLLYGAGGER

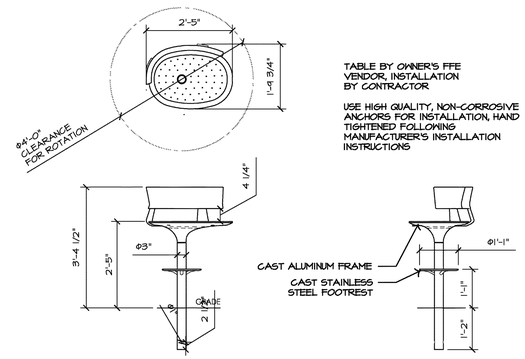
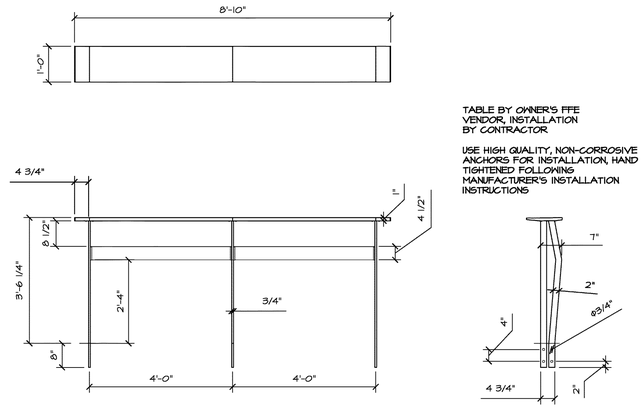


TABLE BY OWNER'S FFE VENDOR, INSTALLATION BY CONTRACTOR

USE HIGH QUALITY, NON-CORROSIVE ANCHORS FOR INSTALLATION, HAND TIGHTENED FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS

2 TYPICAL TALL STOOL- LANDSCAPEFORMS BERNIE



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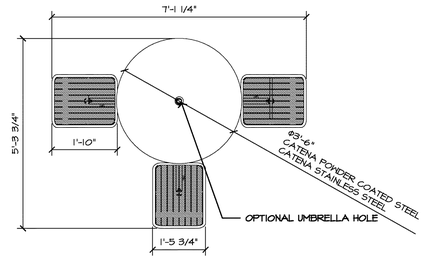
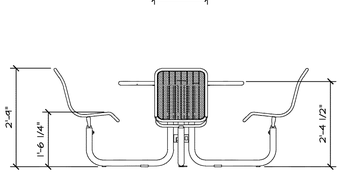
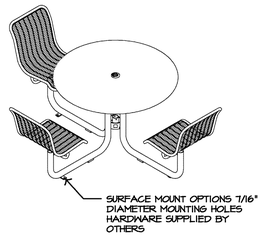
3 TYPICAL TALL TABLE - LANDSCAPEFORMS JESSIE







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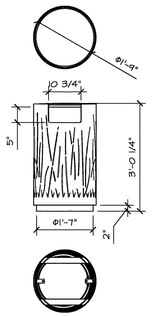
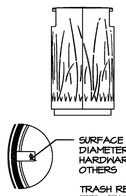
4 TYPICAL TABLE - LANDSCAPEFORMS CAROUSEL

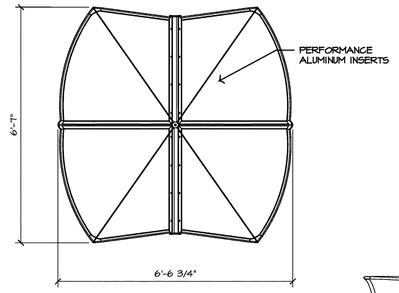


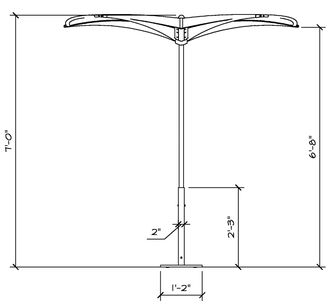


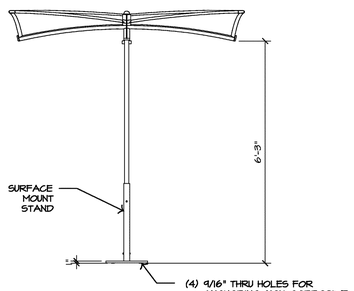
SURFACE MOUNT OPTIONS 7/16" DIAMETER MOUNTING HOLES HARDWARE SUPPLIED BY OTHERS

TRASH RECEPTACLE BY OWNER'S FFE VENDOR, INSTALLATION BY CONTRACTOR

5 TYPICAL TRASH RECEPTACLE - LANDSCAPEFORMS LAKESIDE

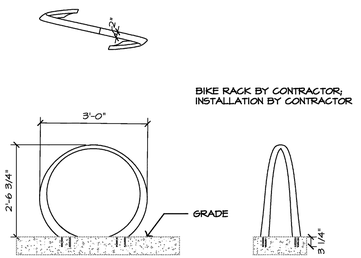






UMBRELLA BY OWNER'S FFE VENDOR, INSTALLATION BY CONTRACTOR

6 TYPICAL UMBRELLA - LANDSCAPEFORMS SHADE



7 TYPICAL BIKE RACK - FURNITURE LEISURE 9 SPACE LOOP BIKE RACK

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ARCHITECT
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ochsner hare + hare
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Drawing No.
L401
HARDSCAPE DETAILS

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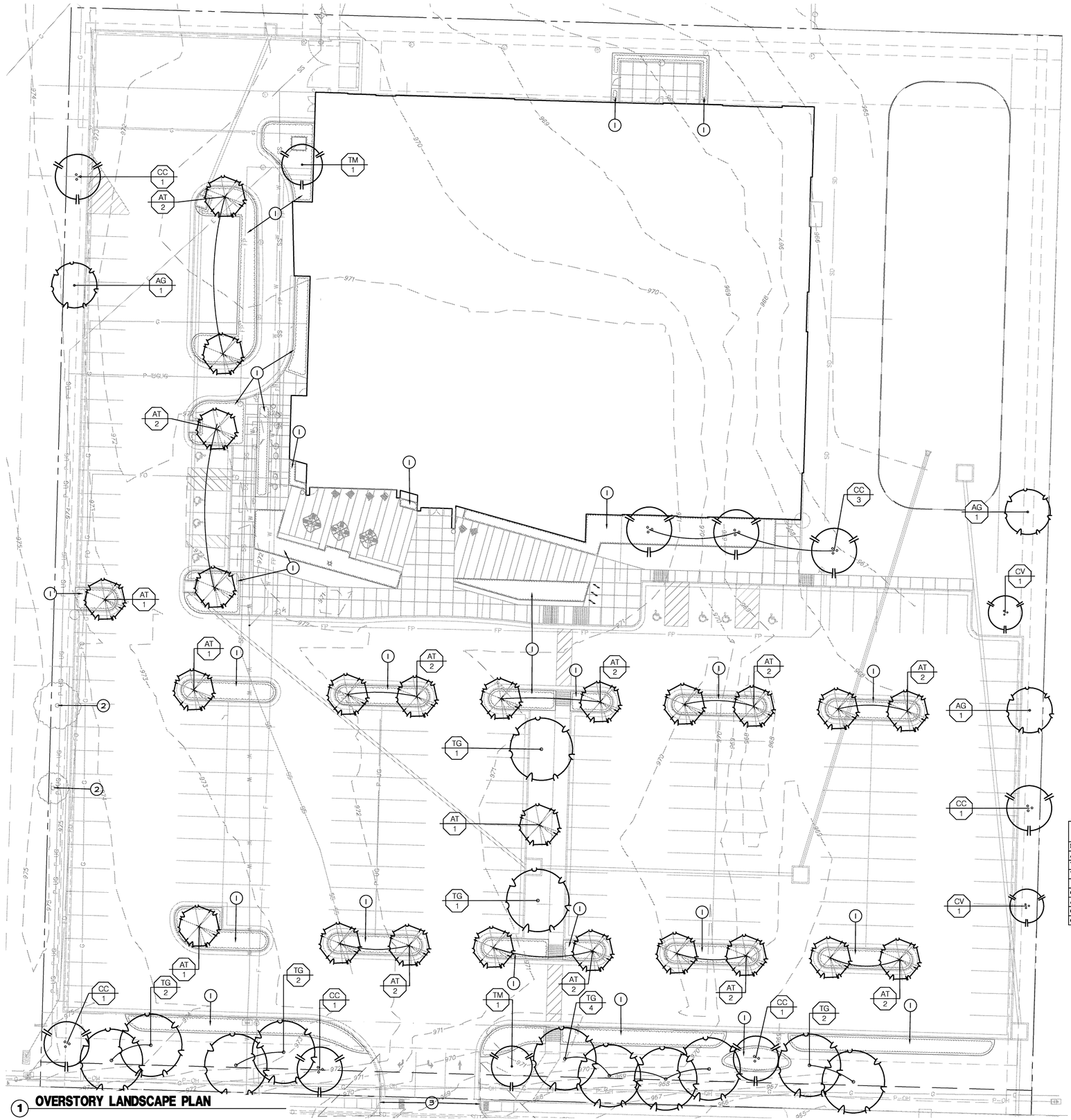

1 OVERSTORY LANDSCAPE PLAN

LANDSCAPE GENERAL NOTES:

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6. THE LANDSCAPE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS. EACH PLANT SPECIES SHALL BE PLACED IN THE FIELD TO UTILIZE THE GREATEST COVERAGE OF THE GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
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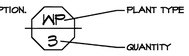
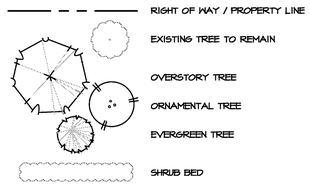


LANDSCAPE LEGEND:



LANDSCAPE PLAN NOTES:

1. PLANTING BED WITH HARDWOOD MULCH, REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS & SPECIFICATIONS
2. EXISTING TREE TO REMAIN
3. SIGHT TRIANGLES

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL NAME	COMMON NAME	SIZE
AT	ACER TRINCATUM	SHANTUNG MAPLE	2" CAL.
TM	TAXODIUM DISTICHUM 'MICKELSON' TM	BALD CYPRESS	2" CAL.
TG	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	2" CAL.
ORNAMENTAL TREES	BOTANICAL NAME	COMMON NAME	SIZE
AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	2" CAL.
CC	CERCIS CANADENSIS	EASTERN REDBUD	2" CAL.
CV	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	2" CAL.

NORTH
0 10' 20' 40'

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Drawing No.
L500
OVERSTORY
LANDSCAPE PLAN

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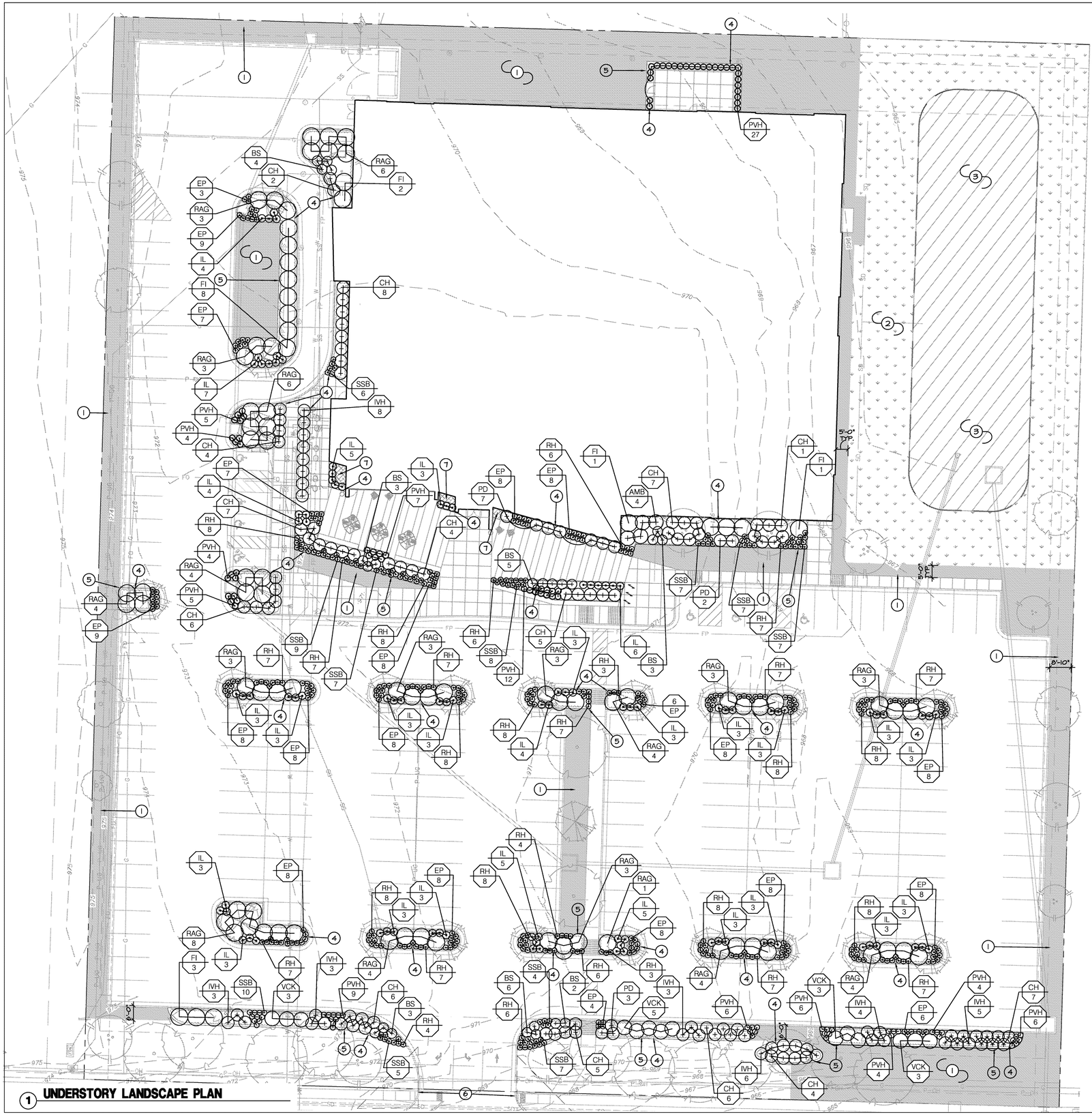

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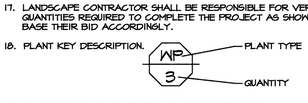
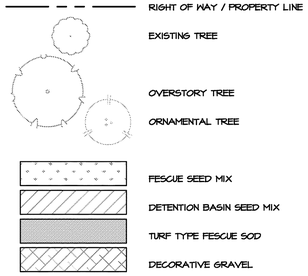


LANDSCAPE LEGEND:



LANDSCAPE PLAN NOTES:

1. AREA TO BE SODDED WITH TURF TYPE FESCUE; REF: SPECIFICATIONS
2. AREA TO BE SEEDED WITH FESCUE SEED; REF: SPECIFICATIONS
3. AREA TO BE SEEDED WITH DETENTION BASIN MIX; REF: SPECIFICATIONS
4. PLANTING BED WITH HARDWOOD MULCH; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS &SPECIFICATIONS
5. STEEL BED EDGE
6. SIGHT TRIANGLES
7. DECORATIVE GRAVEL; REF: 6/L540

PLANT SCHEDULE

DECIDUOUS SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
AMB	ARONIA MELANOCARPA	BLACK CHOKEBERRY	5 GAL	72" o.c.
CH	CORNUS ALBA 'BAILHALO' TM	IVORY HALO DOGWOOD	5 GAL	60" o.c.
FI	FORSYTHIA X INTERMEDIA	BORDER FORSYTHIA	5 GAL	84" o.c.
IVH	ITEA VIRGINICA 'HENRY'S GARNET'	HENRY'S GARNET SWEETSPIRE	5 GAL	60" o.c.
IL	ITEA VIRGINICA 'LITTLE HENRY' TM	VIRGINIA SWEETSPIRE	5 GAL	36" o.c.
PD	PHYSOCARPUS OPULIFOLIUS 'DIABLO'	DIABLO NINEBARK	5 GAL	60" o.c.
RAG	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	5 GAL	84" o.c.
VCK	VIBURNUM CARLESII	KOREANSPICE VIBURNUM	5 GAL	72" o.c.
PERENNIALS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
BS	BAPTISIA X 'SOLAR FLARE'	SOLAR FLARE FALSE INDIGO	1 GAL	48" o.c.
EP	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	24" o.c.
RH	RUDBECKIA HIRTA	BLACK-EYED SUSAN	1 GAL	24" o.c.
GRASSES	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
PVH	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	5 GAL	30" o.c.
SSB	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	5 GAL	24" o.c.

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Mid-Continent Public Library
RENOVATIONS TO
COLBERN ROAD BRANCH
1000 NE Colbern Road
Lee's Summit, Missouri 64086
Jackson County

100% CD SET
PACKAGE 10

STATE OF MISSOURI
KOREY P. SCHULZ
NUMBER LA-2002004605
LANDSCAPE ARCHITECT
12-2019

ochsner hare + hare
the olsson studio
Ochsner Hare & Hare
Missouri State Certificate of Authority #2005000285

Revision No.	Description	Date

Project No.	Date	Drawn
016-1023	12/23/19	TG

Drawing No.
L510
UNDERSTORY LANDSCAPE PLAN

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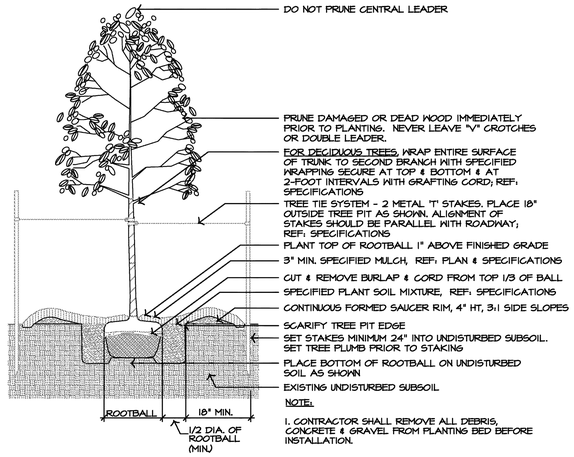
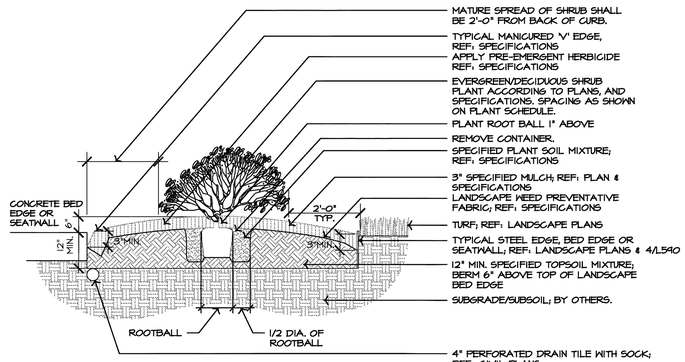
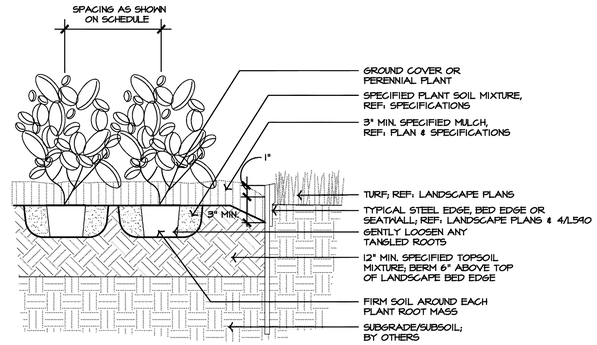


1 TYPICAL DECIDUOUS TREE PLANTING



2 TYPICAL SHRUB PLANTING



3 TYPICAL GROUNDCOVER & PERENNIAL PLANTING

4 TYPICAL STEEL BED EDGE

5 TYPICAL TREE PROTECTION FENCE

6 TYPICAL DECORATIVE GRAVEL

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ochsner hare + hare
the olsson studio

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Revision No.	Description	Date

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016-1023	12/23/19	TG

Drawing No.
L590
LANDSCAPE DETIALS

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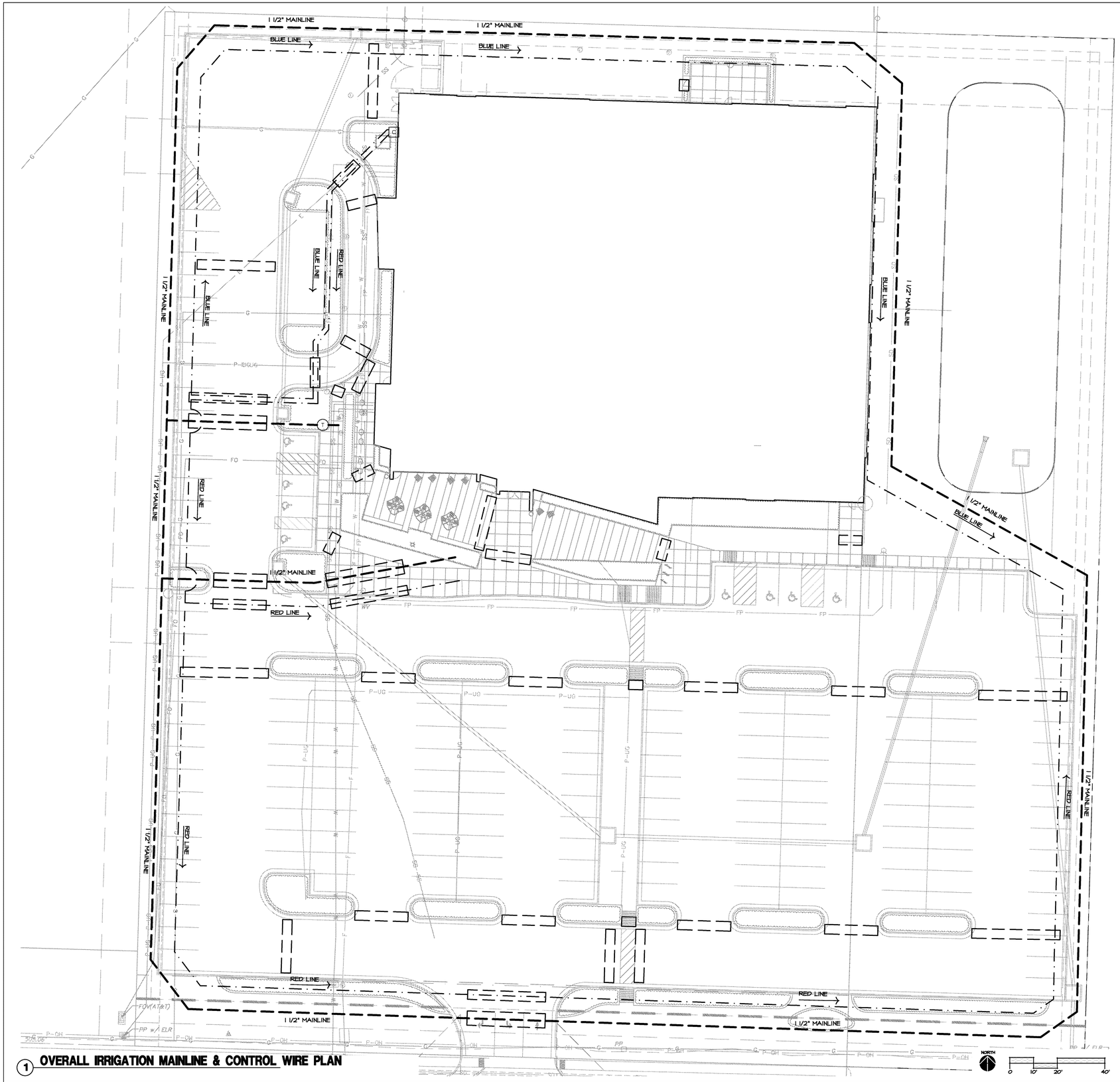

1 OVERALL IRRIGATION MAINLINE & CONTROL WIRE PLAN

IRRIGATION GENERAL NOTES:

1. THIS DESIGN IS SHOWN IN A DIAGRAMMATIC FORM. ALL COMPONENTS ARE SHOWN FOR THE PURPOSE OF CLARIFICATION AND LEGIBILITY. ALL WORK SHALL CONFORM TO SPECIFICATIONS AND DETAILS INCLUDED IN THIS PACKAGE. IRRIGATION MAINLINE, LATERALS, CONTROL VALVES, SUB-METER, BACKFLOW PREVENTER AND OTHER IRRIGATION CONTROL EQUIPMENT SHALL BE INSTALLED IN LANDSCAPE BEDS OR TURF AREAS UNLESS CONTAINED IN PVC SLEEVING UNDER PAVEMENT OR OTHER HARDSCAPE AS INDICATED ON PLANS.
2. VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF WORK.
3. CONTACT LANDSCAPE ARCHITECT AND COORDINATE ALL REVIEWS PRIOR TO COMMENCEMENT OF WORK.
4. IRRIGATION CONTRACTOR SHALL VERIFY PRESSURE AT ALL TAP LOCATIONS PRIOR TO THE INSTALLATION OF ANY COMPONENTS OF THE IRRIGATION SYSTEM. NOTIFY LANDSCAPE ARCHITECT IF THE MINIMUM REQUIREMENTS FOR FLOW AND PRESSURE NOTED IN THE IRRIGATION SCHEDULES CAN NOT BE MEET.
5. CONTRACTOR SHALL INSTALL ALL IRRIGATION EQUIPMENT IN THE TURF AREAS AND PLANTING BEDS IN A MANNER SO AS TO CONFORM WITH THE VARIOUS DETAILS, PLAN NOTES AND SPECIFICATIONS FROM LANDSCAPE ARCHITECT AND MANUFACTURER.
6. EXERCISE EXTREME CARE IN EXCAVATING AND WORKING NEAR EXISTING TREES AND UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR DAMAGE TO TREES OR UTILITIES. FIELD ADJUST SPRINKLER LOCATIONS SO AS TO AVOID CONFLICTS WITH UTILITIES (FIRE HYDRANTS, TRANSFORMERS, ETC.).
7. PROTECT AT ALL TIMES THE WORK FROM DAMAGE AND THEFT. REPLACE ALL DAMAGED OR STOLEN PARTS AT CONTRACTOR'S EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
8. THE FINAL LOCATION AND EXACT POSITIONING OF THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
9. IRRIGATION CONTRACTOR RESPONSIBLE TO COORDINATE 110 ELECTRICAL SERVICE FOR CONTROLLER WITH BUILDING GENERAL CONTRACTOR. POWER SUPPLY CONNECTION BY IRRIGATION CONTRACTOR.
10. FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE. INSTALL PRS-DIAL PRESSURE REGULATING MODULES ON ALL VALVES OPERATING AT PRESSURES HIGHER THAN 5 PSI FROM OPERATION PSI AS STATED IN THE CONTROLLER SCHEDULES FOR EACH ZONE.
11. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT MIND CONDITIONS, OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA'S DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED DURING DESIGN BRING SUCH OBSTRUCTIONS OR DIFFERENCE TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND COSTS FOR ALL NECESSARY REVISIONS.
12. CONTRACTOR SHALL PLACE ALL ZONE CONTROL VALVES AND QUICK COUPLER VALVES IN LANDSCAPE BEDS, AS POSSIBLE. PLACE VALVE BOXES A MINIMUM OF 1'-0" FROM ANY PAVEMENT AND PARALLEL TO PAVEMENT EDGE. GROUPED VALVES TO BE EQUALLY SPACED.
13. ADJUST HEAD LOCATION IF SPRAY IS DETRIMENTAL TO OR BLOCKED BY TREE, SHRUB OR STRUCTURE, MAINTAINING EVEN COVERAGE OF PLANTED AREAS.
14. INSTALL ALL MAINLINES TO SLOPE AT 1% MINIMUM TO MANUAL DRAIN VALVES LOCATED AT LOW POINTS OF MAIN SYSTEM.
15. ALL SPRINKLER HEADS AND TURF ROTORS SHALL BE ADJUSTED SO THEY DO NOT SPRAY ONTO WALKS, RETAINING WALLS, BUILDINGS OR THE PLAZA AREAS.
16. THE IRRIGATION SYSTEM IS DESIGNED TO BE DRAINED AND BLOWN OUT WITH PRESSURIZED AIR PRIOR TO FREEZING TEMPERATURES IN FALL/WINTER. THE CONTRACTOR SHALL DRAIN AND BLOW OUT THE SYSTEM AS NECESSARY UNTIL SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL BLOW OUT THE SYSTEM AND INSTRUCT THE OWNER ON THE PROCEDURES FOR THE FIRST FALL/WINTER FOLLOWING THE NOTICE OF SUBSTANTIAL COMPLETION.
17. THE CONTRACTOR SHALL PRESSURIZE AND MAKE OPERATIONAL THE SYSTEM IN THE SPRING, AFTER ALL CHANCES OF FREEZING TEMPERATURES PASSES. UNTIL NOTICE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL ALSO PRESSURIZE AND MAKE THE SYSTEM OPERATIONAL AND INSTRUCT THE OWNER ON PROCEDURES FOR THE FIRST SPRING FOLLOWING THE NOTICE OF SUBSTANTIAL COMPLETION.
18. CONTRACTOR SHALL INSTALL SLEEVES UNDER HARDSCAPE AT ALL POINTS WHERE IRRIGATION MAIN LINE AND LATERALS ARE LOCATED.
19. ALL IRRIGATION EQUIPMENT INCLUDING VALVES, MAINLINES AND LATERALS SHALL BE LOCATED ON THE OWNERS PROPERTY.

IRRIGATION OVERALL PLAN LEGEND:

- IRRIGATED AREA
- RIGHT OF WAY / PROPERTY LINE
- W — POTABLE WATER SERVICE LINE
- MAINLINE, SIZE AS SHOWN
- TWO-WIRE PATH LINE
- T — IRRIGATION POINT OF CONNECTION
- C — IRRIGATION CONTROLLER

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Revision No.	Description	Date

Project No.	Date	Drawn
016-1023	12/23/19	TG

Drawing No.
L600
OVERALL IRRIGATION MAINLINE & CONTROL WIRE PLAN

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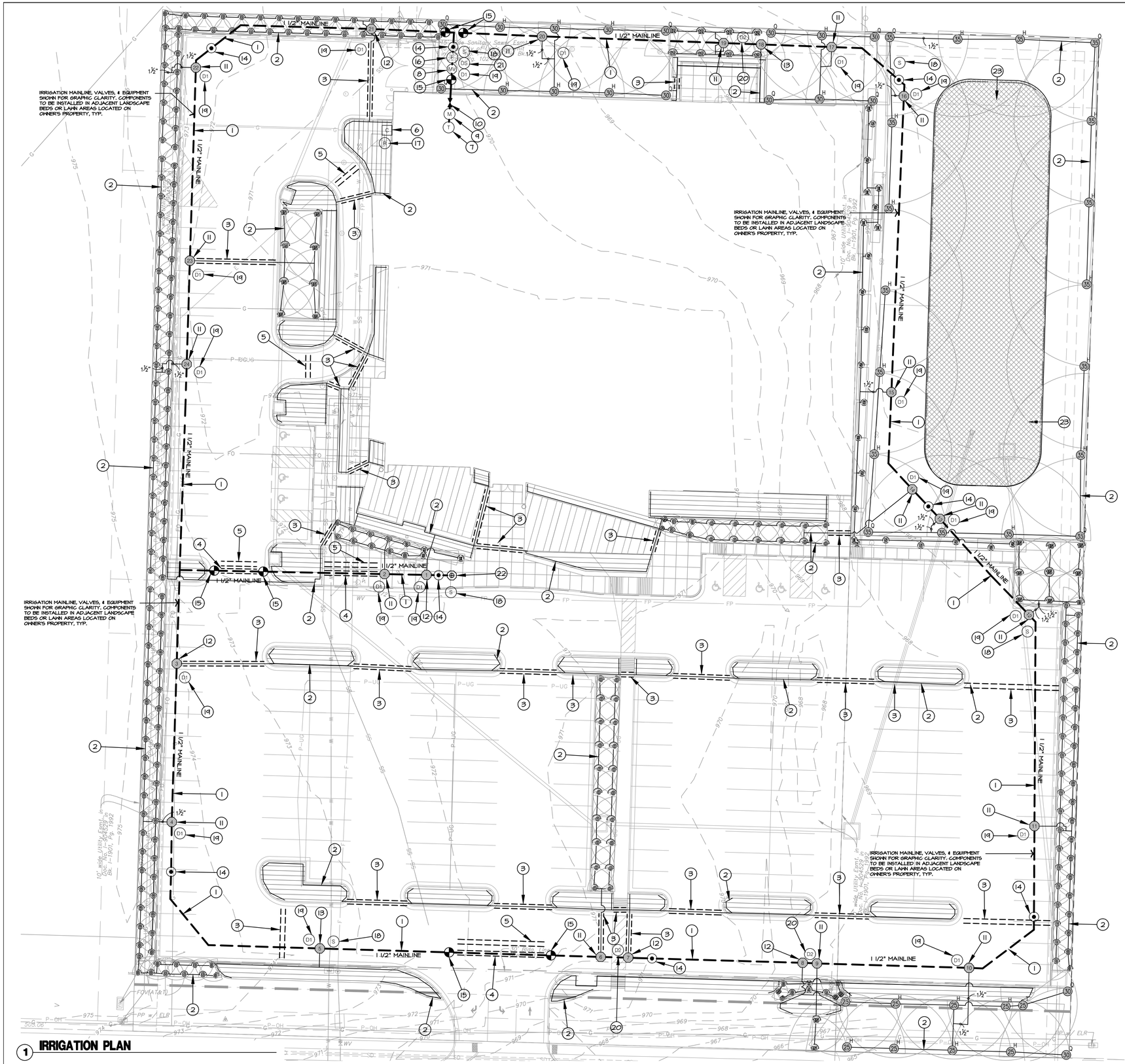

1 **IRRIGATION PLAN**

IRRIGATION LEGEND:

- LIMITS OF CONSTRUCTION
- RIGHT OF WAY / PROPERTY LINE
- FULL CIRCLE SPRAY HEAD; REF: 2/L690
- HALF CIRCLE SPRAY HEAD; REF: 2/L690
- ONE THIRD CIRCLE SPRAY HEAD; REF: 2/L690
- QUARTER CIRCLE SPRAY HEAD; REF: 2/L690
- SIDE STRIP SPRAY HEAD; REF: 2/L690
- END STRIP SPRAY HEAD; REF: 2/L690
- ROTOR HEAD; REF: 1/L690
- POTABLE WATER SERVICE LINE
- MAINLINE, SIZE AS SHOWN; REF: 5/L691
- LATERAL PIPE, SIZE AS SHOWN; REF: 5/L691
- LANDSCAPE DRIPLINE; REF: 3, 4, 5, 6, 7 & 9/L690
- SCHEDULE 40 PVC SLEEVE
- IRRIGATION WATER METER
- BACKFLOW PREVENTER
- IRRIGATION POINT OF CONNECTION
- MASTER CONTROL VALVE
- ZONE CONTROL VALVE
- MANUAL GATE VALVE
- QUICK COUPLER VALVE
- FLOW SENSOR
- AUTOMATIC CONTROLLER
- RAIN/FREEZE SENSOR
- SURGE PROTECTOR
- DECODER -1 SOLENOID
- DECODER -2 SOLENOID
- DECODER -SENSOR
- MAINLINE / CONTROL WIRE TERMINUS
- TEMPORARY IRRIGATION SYSTEM

IRRIGATION PLAN NOTES:

1. POTABLE WATER IRRIGATION MAINLINES TO BE 1-1/2" PVC PIPE OR AS SHOWN ON PLANS; REF: 5/L691.
2. POTABLE WATER IRRIGATION LATERALS TO BE 1" PVC PIPE OR AS SHOWN ON THE PLANS; REF: 5/L691.
3. POTABLE WATER IRRIGATION SLEEVES SHALL BE 4" PVC SCHEDULE 40 PIPE OR AS SHOWN ON THE PLANS.
4. POTABLE WATER IRRIGATION SLEEVES SHALL BE 6" PVC SCHEDULE 40 PIPE OR AS SHOWN ON THE PLANS.
5. IRRIGATION CONTROL WIRE SLEEVE SHALL BE 4" PVC SCHEDULE 40 PIPE. SLEEVE SHALL EXTEND FROM MAINLINE LOCATION TO CONTROLLER LOCATION.
6. IRRIGATION CONTROLLER SHALL BE RAIN BIRD ESP-LXD CONTROLLER. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ELECTRICAL SERVICE AND DATA CONNECTION TO THE CONTROLLER LOCATION IS TO BE COORDINATED BY THE GENERAL CONTRACTOR AND PROVIDED BY ELECTRICAL CONTRACTOR. POWER AND DATA HOOK-UP TO THE CONTROLLER BY IRRIGATION CONTRACTOR. INSTALL CONTROLLER PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.; REF: 8/L691.
7. IRRIGATION POINT OF CONNECTION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION MAINLINE TO WATER SUPPLY AS REQUIRED BY ALL CITY, COUNTY OR STATE REGULATIONS. IRRIGATION TAP SHALL OCCUR AFTER METER, BACKFLOW PREVENTER, AND IRRIGATION BOOSTER PUMP. REF: 6/L691 AND MEP PLANS.
8. 1-1/2" RAIN BIRD BPE MODEL MASTER VALVE CONNECTED TO POTABLE IRRIGATION MAINLINE AFTER IRRIGATION POINT OF CONNECTION, METER AND BACKFLOW PREVENTER; REF: 10/L690.
9. IRRIGATION WATER METER; REF: MEP PLANS
10. BACKFLOW PREVENTER; REF: MEP PLANS
11. RAIN BIRD PEB MODEL CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES. REFERENCE IRRIGATION SCHEDULE FOR SIZE, FLOW AND PRESSURE REQUIREMENTS; REF: 8/L690.
12. RAIN BIRD XCZ-100-PRB-COM DRIP CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES; REF: 9/L690.
13. RAIN BIRD XCZ-LF-100-PRF DRIP CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES; REF: 9/L690.
14. QUICK COUPLER VALVE LOCATED ON POTABLE WATER SHALL BE RAIN BIRD 44RC WITH YELLOW CAP LOCATED IN 10" ROUND VALVE BOX; REF: 2/L691.
15. INSTALL MANUAL GATE VALVE IN LOCATIONS INDICATED ON IRRIGATION MAINLINES. MANUAL GATE VALVE TO MATCH SIZE OF MAINLINE PIPE; REF: 4/L691.
16. RAIN BIRD SERIES FLOW SENSOR, PER SPECIFICATIONS; REF: 12/L690 & 1/L691.
17. RAIN BIRD RAIN/FREEZE SENSOR. INSTALL ON BUILDING, PER SPECIFICATIONS. FINAL LOCATION TO BE APPROVED BY LANDSCAPE ARCHITECT; REF: 6/L691.
18. SURGE PROTECTOR. RAIN BIRD LSP-ITURF LINE SURGE PROTECTION, PER SPECIFICATIONS; REF: 11/L690.
19. DECODER-1 SELENOID. RAIN BIRD FD-101TURF FIELD DECODER, PER SPECIFICATIONS; REF: 8, 9 & 10/L690.
20. DECODER-2 SELENOID. RAIN BIRD FD-202TURF FIELD DECODER, PER SPECIFICATIONS; REF: 8, 9 & 10/L690.
21. DECODER - SENSOR. RAIN BIRD SD-210TURF SENSOR DECODER, PER SPECIFICATION; REF: 12/L690 & 1/L691.
22. IRRIGATION SYSTEM 2-WIRE COMMUNICATION TERMINUS. IRRIGATION CONTRACTOR SHALL TERMINATE MAINLINE AND CONTROL WIRE IN VALVE BOX. MAINLINE SHALL TERMINATE WITH MANUAL DRAIN VALVE. CONTROL WIRE SHALL TERMINATE WITH FIVE FEET OF CONTROL WIRE COILED IN VALVE BOX.
23. CONTRACTOR SHALL INSTALL TEMPORARY ABOVE GRADE IRRIGATION SYSTEM PROVIDING FULL COVERAGE OF SEEDED AREA FOR ESTABLISHMENT. CONTRACTOR SHALL REMOVE TEMPORARY IRRIGATION SYSTEM AFTER ONE FULL GROWING SEASON.

NORTH
0 10' 20' 40'

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CHARLES K. THOMPSON
NUMBER LA-213
LANDSCAPE ARCHITECT
3/25/20

ochsner hare + hare
the olsson studio
Ochsner Hare & Hare
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Revision No.	Description	Date

Project No.	Date	Drawn
016-1023	12/23/19	TG

Drawing No.
L601
IRRIGATION PLAN

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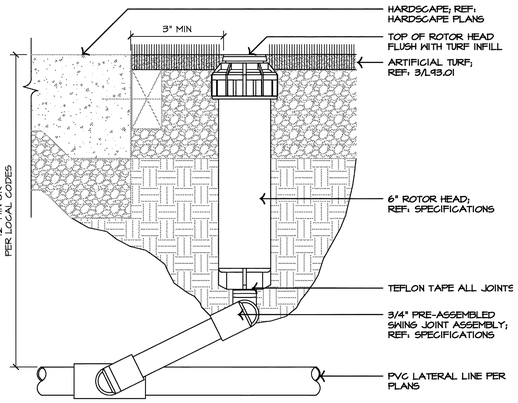
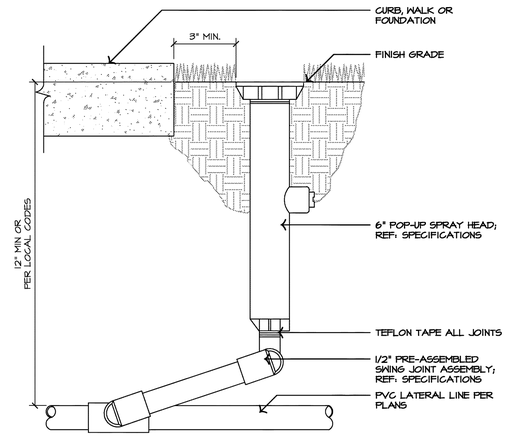
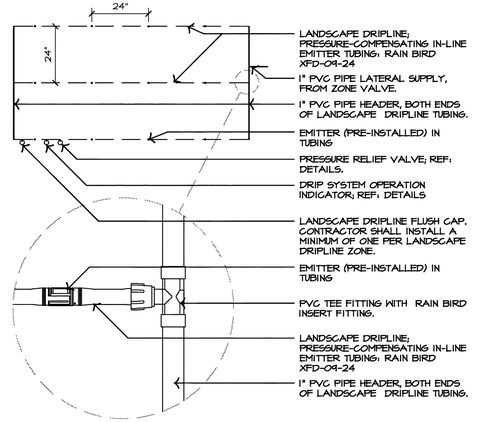


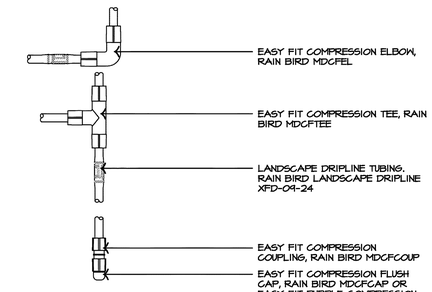
1 6" POP-UP ROTOR HEAD - POTABLE WATER



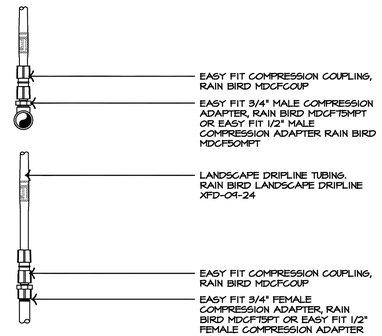
2 6" POP-UP SPRAY HEAD - POTABLE WATER



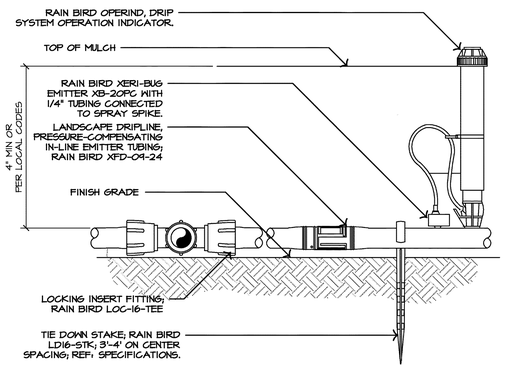
3 LANDSCAPE DRIPLINE LAYOUT TYPICAL - POTABLE WATER



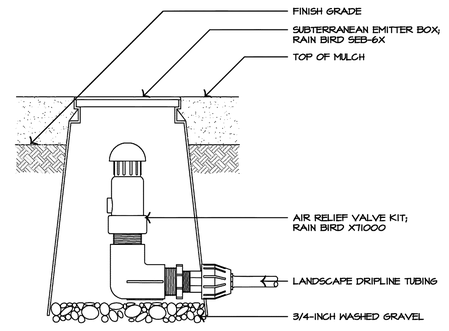
4 LANDSCAPE DRIPLINE EASY FIT COMPRESSION FITTINGS - POTABLE WATER



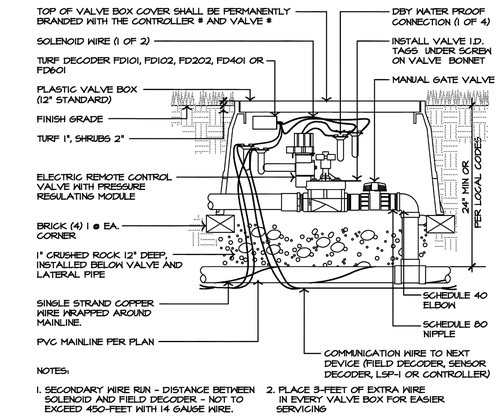
5 LANDSCAPE DRIPLINE EASY FIT COMPRESSION ADAPTERS - POTABLE WATER



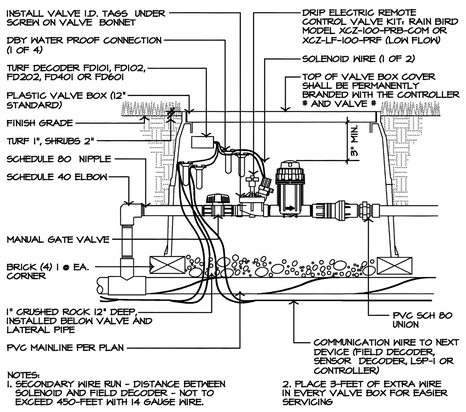
6 LANDSCAPE DRIPLINE CONNECTION - POTABLE WATER



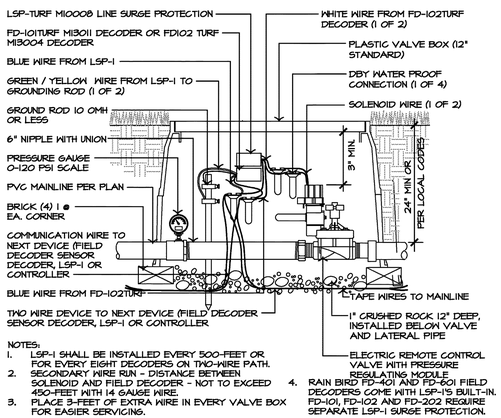
7 LANDSCAPE DRIPLINE AIR VALVE KIT - POTABLE WATER



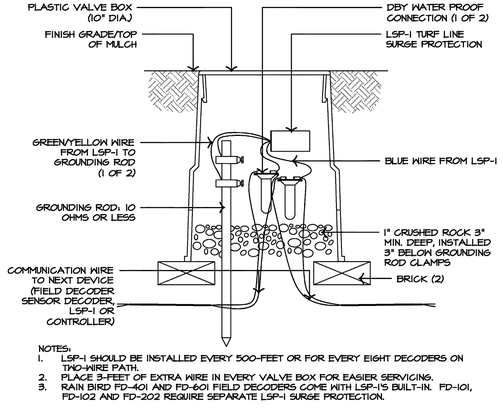
8 REMOTE CONTROL VALVE - POTABLE WATER



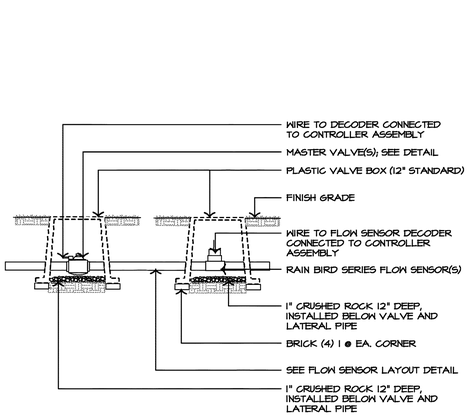
9 DRIP REMOTE CONTROL VALVE - POTABLE WATER



10 MASTER VALVE - POTABLE WATER



11 LINE SURGE PROTECTION



12 MASTER VALVE & FLOW SENSOR TYPICAL - POTABLE WATER

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Missouri State Certificate of Authority #000607

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SPECIAL NOTICES

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Mid-Continent Public Library
RENOVATIONS TO
COLBERN ROAD BRANCH
1000 NE Colbern Road
Lee's Summit, Missouri 64086
Jackson County

100% CD SET
PACKAGE
10

STATE OF MISSOURI
KOREY P. SCHULZ
NUMBER A-2002000605
LANDSCAPE ARCHITECT
12-2019

ochsner hare + hare
the olsson studio
Ochsner Hare & Hare
Missouri State Certificate of Authority #2005000285

Revision No.	Description	Date

Project No.	Date	Drawn
016-1023	12/23/19	TG

Drawing No.
L690
IRRIGATION DETAILS

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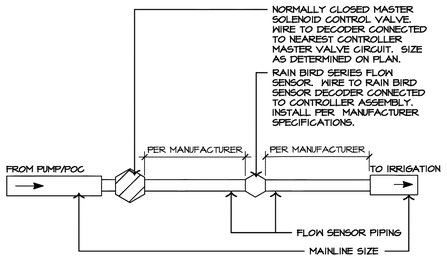
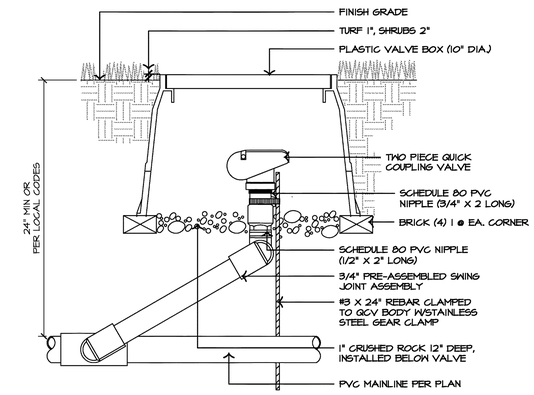
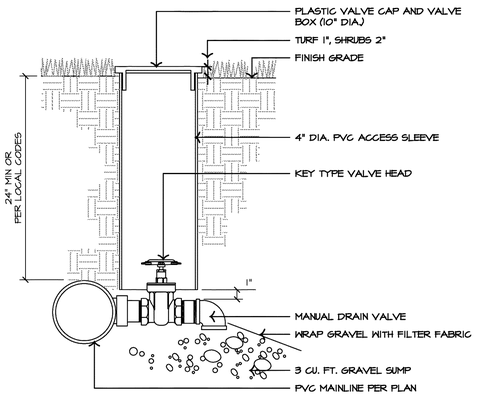


FLOW SENSOR	SIZE	FLOW SENSOR PIPING SIZE
RAIN BIRD FS150P	1 1/2"	1 1/2" PIPE
RAIN BIRD FS200P	2"	2" PIPE
RAIN BIRD FS300P	3"	3" PIPE
RAIN BIRD FS400P	4"	4' PIPE

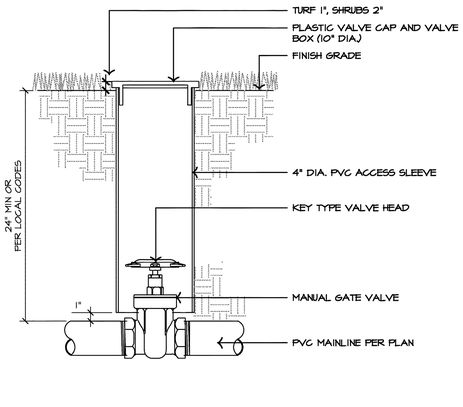
1 FLOW SENSOR TYPICAL LAYOUT - POTABLE WATER



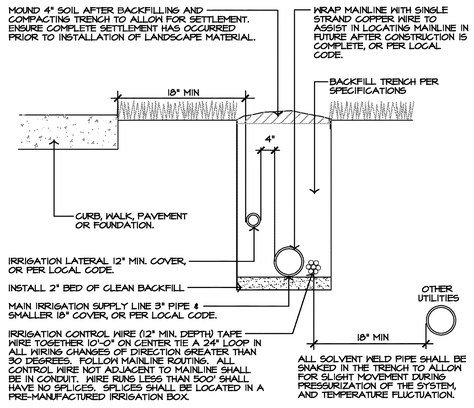
2 QUICK COUPLER VALVE - POTABLE WATER



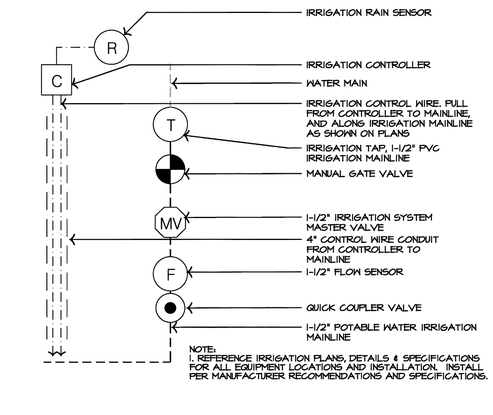
3 MANUAL DRAIN VALVE - POTABLE WATER



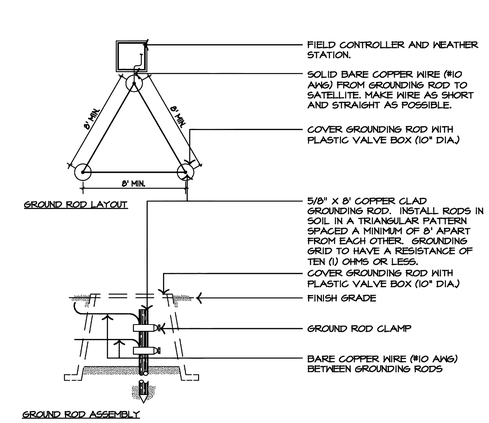
4 MANUAL GATE VALVE - POTABLE WATER



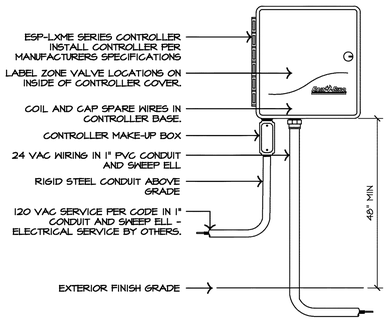
5 TRENCHING DETAIL - POTABLE WATER



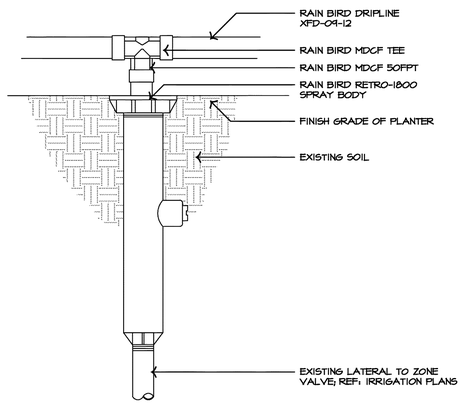
6 TAP LAYOUT - POTABLE WATER



7 CONTROLLER GROUNDING GRID



8 WALL MOUNTED AUTOMATIC CONTROLLER



9 DRIP IRRIGATION RETROFIT KIT

CRITICAL ANALYSIS

Generated:	2019-12-12 09:59
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Water Meter Size:	1-1/2"
Flow Available:	75.00 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	117.00 psi
Elevation Change:	0.00 ft
Service Line Size:	2"
Length of Service Line:	0.00 ft
Pressure Available:	117.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	30.51 gpm
Flow Available at POC:	75.00 gpm
Residual Flow Available:	44.49 gpm
Critical Station:	16
Design Pressure:	45.00 psi
Friction Loss:	3.24 psi
Fittings Loss:	0.32 psi
Elevation Loss:	0.00 psi
Loss through Valve:	3.59 psi
Pressure Req. at Critical Station:	52.15 psi
Loss for Fittings:	0.00 psi
Loss for Main Line:	4.63 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	12.12 psi
Loss for Master Valve:	6.60 psi
Loss for Water Meter:	1.88 psi
Critical Station Pressure at POC:	77.38 psi
Pressure Available:	117.00 psi
Residual Pressure Available:	39.62 psi

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	DESIGN PSI
1	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	9.60	1,279 L.F.	40
2	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	7.80	13	30
3	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	5.61	747.8 L.F.	40
4	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	25.83	51	30
5	RAIN BIRD XCZ-LF-100-PRF	1"	AREA FOR DRIPLINE	2.42	321.2 L.F.	40
6	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	14.20	20	30
7	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	6.14	820.1 L.F.	40
8	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	5.52	736.0 L.F.	40
9	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	6.91	12	30
10	RAIN BIRD PEB-PRS-D	1"	TURF ROTOR	19.42	11	45
11	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	16.38	32	30
12	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	14.25	17	30
13	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	30.51	9	45
14	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	10.96	18	30
15	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	23.63	23	30
16	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	30.51	9	45
17	RAIN BIRD PEB-PRS-D	1"	TURF ROTOR	11.52	6	45
18	RAIN BIRD XCZ-LF-100-PRF	1"	AREA FOR DRIPLINE	0.84	110.7 L.F.	40
19	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	10.40	8	30
20	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	23.36	10	45
21	RAIN BIRD XCZ-100-PRB-COM	1"	AREA FOR DRIPLINE	8.27	1,101 L.F.	40
22	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	22.62	44	30
23	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	11.08	8	30
24	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	23.92	46	30

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Jackson County

100% CD SET
PACKAGE 10

STATE OF MISSOURI
KOREY P. SCHULZ
NUMBER LA-2002018605
LANDSCAPE ARCHITECT
12-2019

ochsner hare + hare
the olsson studio
Ochsner Hare & Hare
Missouri State Certificate of Authority #2005000285

Revision No.	Description	Date

Project No.	Date	Drawn
016-1023	12/23/19	TG

Drawing No.
L691
IRRIGATION DETAILS

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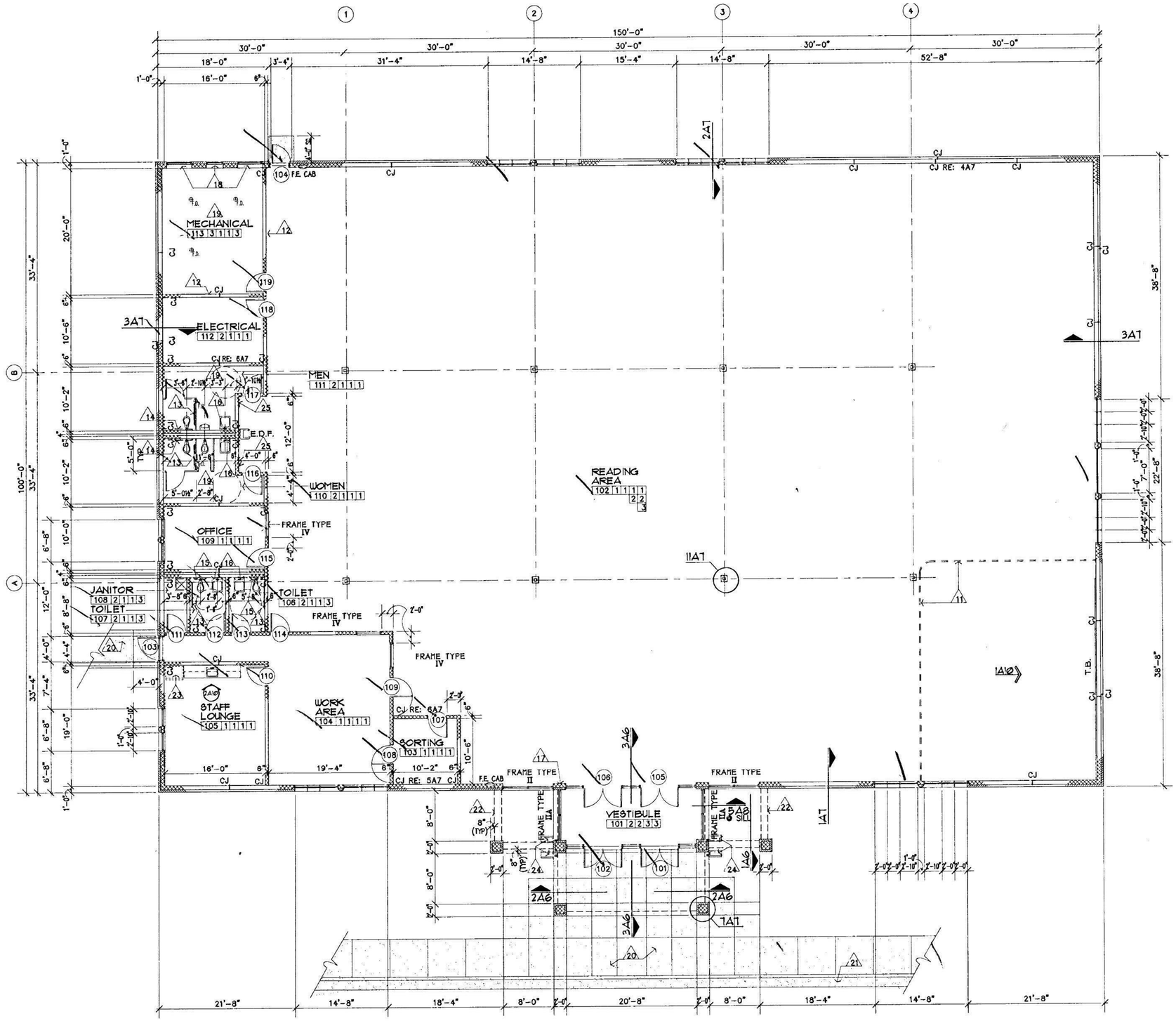

1 **DEMOLITION PLAN**
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. PLAN FOR REFERENCE ONLY. NOTATION ON PLAN IS NOT APPLICABLE.
2. DEMOLISH AND REMOVE ENTIRE EXISTING BUILDING INCLUDING ALL FOOTINGS AND FOUNDATIONS.
3. SALVAGE AND PROTECT ALL 2X2 AND 2X4 LED CREE LIGHT FIXTURES
4. REMOVE OR RETIRE IN PLACE UTILITY SERVICES TO BUILDING PER CIVIL DRAWINGS.

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Missouri State Certificate of Authority #000720

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Colbern Road Branch

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JACKSON COUNTY

Architect of Record

STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
1-13-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
1	ADDENDUM 01	01/10/20

Project No.	Date	Drawn
WP10	12-23-2019	Author

Drawing No. **D100**
DEMOLITION PLAN

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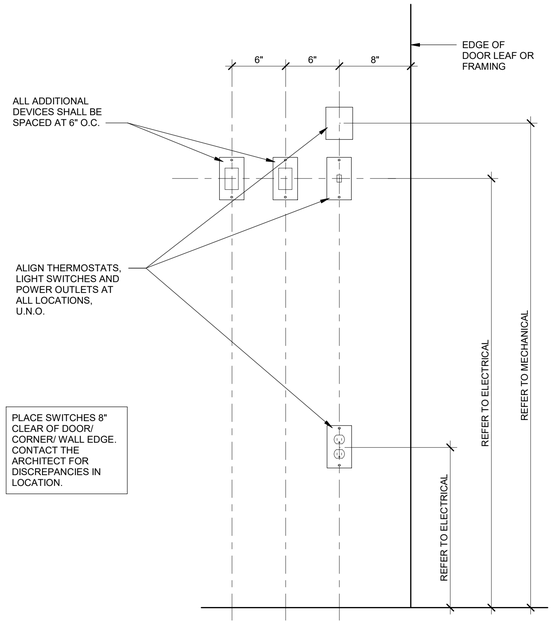
GENERAL NOTES

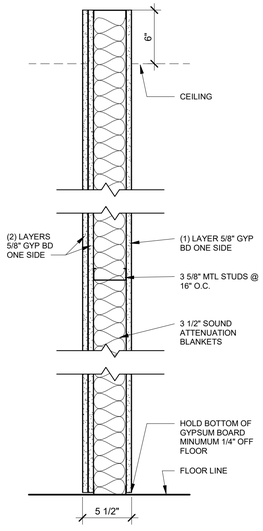
1. INTENT OF DRAWING IS TO SHOW RELATIONSHIPS BETWEEN VARIOUS ITEMS TO BE MOUNTED IN THE WALL. NOT ALL ITEMS MAY OCCUR AT EACH LOCATION. *
2. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF ITEMS NOT ADJACENT TO DOOR FRAMES.
3. IF ONE OR MORE DEVICES SHOWN DO NOT EXIST AT A GIVEN LOCATION THEN THE DEVICES THAT DO EXIST SHIFT OVER TO OCCUPY THE SPACE CLOSEST TO THE DOOR FRAME.
4. IN LOCATIONS WHERE CARD ACCESS AND OTHER DEVICES ARE LOCATED ADJACENT TO A DOOR FRAME, DEVICES ASSOCIATED w/ OPENING THE DOOR OR CONTACTING SOMEONE ARE LOCATED CLOSEST TO THE FRAME.
5. ALL DIMS. LISTED ARE TO CENTERLINE OF BACKBOX. U.N.O.
6. FOR MULT-SWITCH LIGHT SWITCHES, THE FIRST SWITCH WILL LAY ON THE VERTICAL AND HORIZONTAL ALIGNMENT GRID. ANY OTHER DEVICES WILL BE LOCATED AT THE NEXT GRID INTERSECTION.
7. CONFIRM MOUNTING HEIGHTS OF ITEMS NOT SHOWN w/ ARCHITECT PRIOR TO INSTALLATION.
8. CONFIRM ALL MOUNTING HEIGHT LOCATIONS w/ ARCHITECT PRIOR TO INSTALLATION.

* DRAWING ALSO ONLY SHOWS MOUNTING HEIGHTS AND PLACEMENT. REFER TO OTHER TRADE DRAWINGS FOR BACK BOX SIZE/ TYPE, CONDUIT SIZE/ LOCATIONS AND OTHER INFORMATION RELATED TO THE SPECIFIC CONSTRUCTION REQUIREMENTS OF EACH DEVICE.



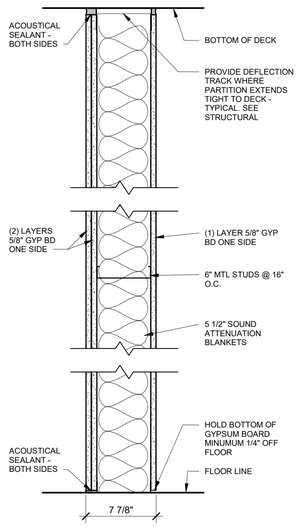
1 TYPICAL ELECTRICAL POWER DEVICE ELEVATION

1 1/2" = 1'-0"



P11

GYPSUM BOARD ASSEMBLY



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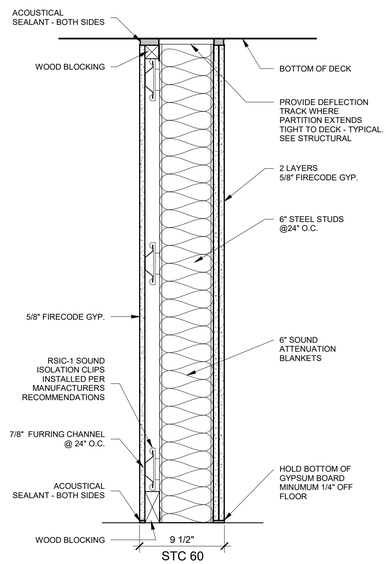

STC 60

P9

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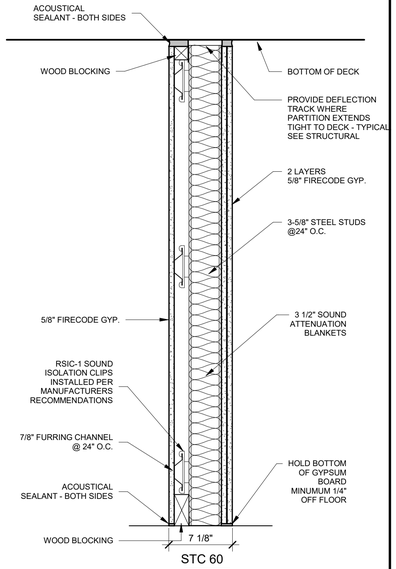
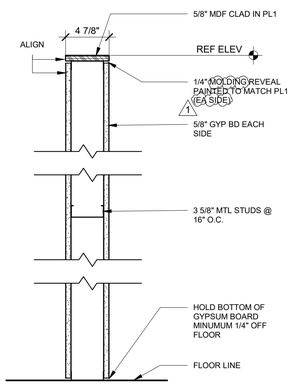


STC 60

P8

GYPSUM BOARD ASSEMBLY



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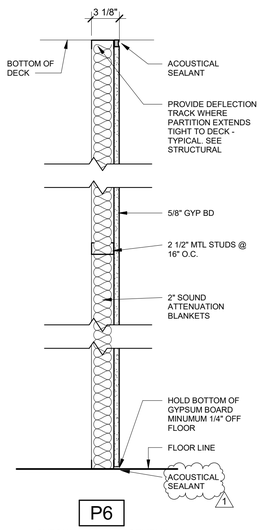

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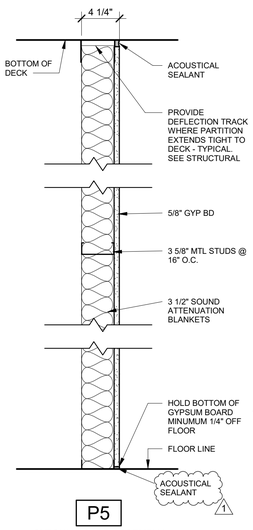

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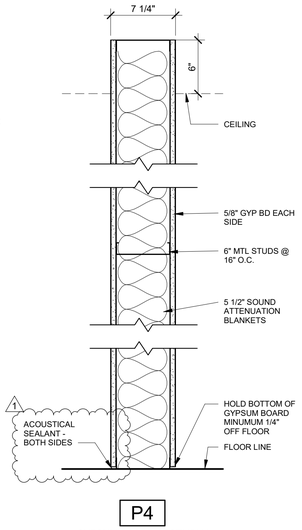

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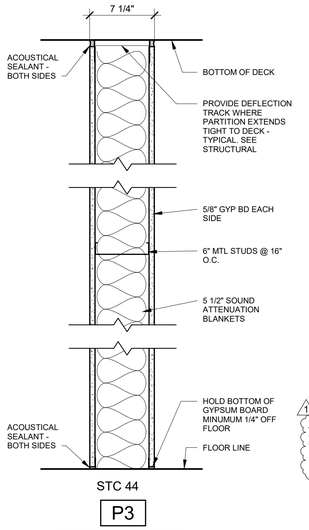
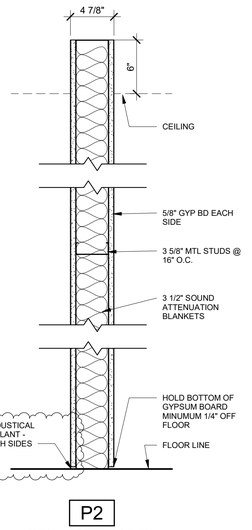
GYPSUM BOARD ASSEMBLY



STC 44

P3

GYPSUM BOARD ASSEMBLY



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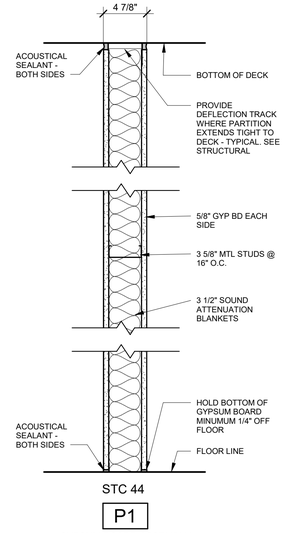

STC 44

P1

GYPSUM BOARD ASSEMBLY

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR INTERIOR PARTITION TYPES.
2. EXTERIOR WALL CONSTRUCTION IS DESCRIBED BY WALL SECTIONS. ALL GYP BD ON INTERIOR SIDE OF EXTERIOR WALLS SHALL BE 5/8" ABUSE RESISTANT GYP BD UP TO 8'-0" A.F.F. AND REGULAR GYP BD ABOVE EXTENDED UP TO BOTTOM OF DECK.
3. INTERIOR WALL TYPES ARE DESCRIBED BY THIS SCHEDULE. ANY WALL NOT INDICATED OR KEYED FOR TYPE AND CONSTRUCTION SHALL BE CLARIFIED BY INTERPRETATION FROM THE ARCHITECT.
4. ALL WALLS INCLUDING GYP BD SHEATHING SHALL EXTEND TO UNDERSIDE OF ROOF DECKING, UNLESS INDICATED OTHERWISE.
5. THESE TYPES INDICATE PRIMARY WALL TYPES. OVERLAID VENEERS, WAINSCOT, PILASTERS AND OTHER VARIANTS AND SPECIAL CONDITIONS ARE INDICATED ON THE PLANS AND DETAILS.
6. JOINTS AND PENETRATIONS AT ALL RATED WALLS SHALL BE SEALED AND PROTECTED PER SPECIFICATIONS, U.L. TESTED ASSEMBLIES AND CODE REQUIREMENTS.
7. ALL GYP BD/MTL STUD WALLS W/ PLUMBING FIXTURES SHALL RECEIVE MOISTURE RESISTANT GYP BD.
8. CUT GYPSUM BOARD TO ALLOW FOR A MINIMUM 1/4 IN GAP BETWEEN GYPSUM BOARD AND FLOOR TO PREVENT POTENTIAL WICKING.
9. LOCATE GYPSUM BOARD JOINTS AT OPENINGS SO THAT NO JOINT WILL OCCUR WITHIN 12 IN OF THE EDGES OF THE OPENING UNLESS INSTALLING CONTROL JOINTS AT THESE LOCATIONS. STAGGER VERTICAL END JOINTS. JOINTS ON OPPOSITE SIDES OF A PARTITION SHOULD NOT OCCUR ON THE SAME STUD.

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Architect of Record

STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A000

PARTITION TYPES

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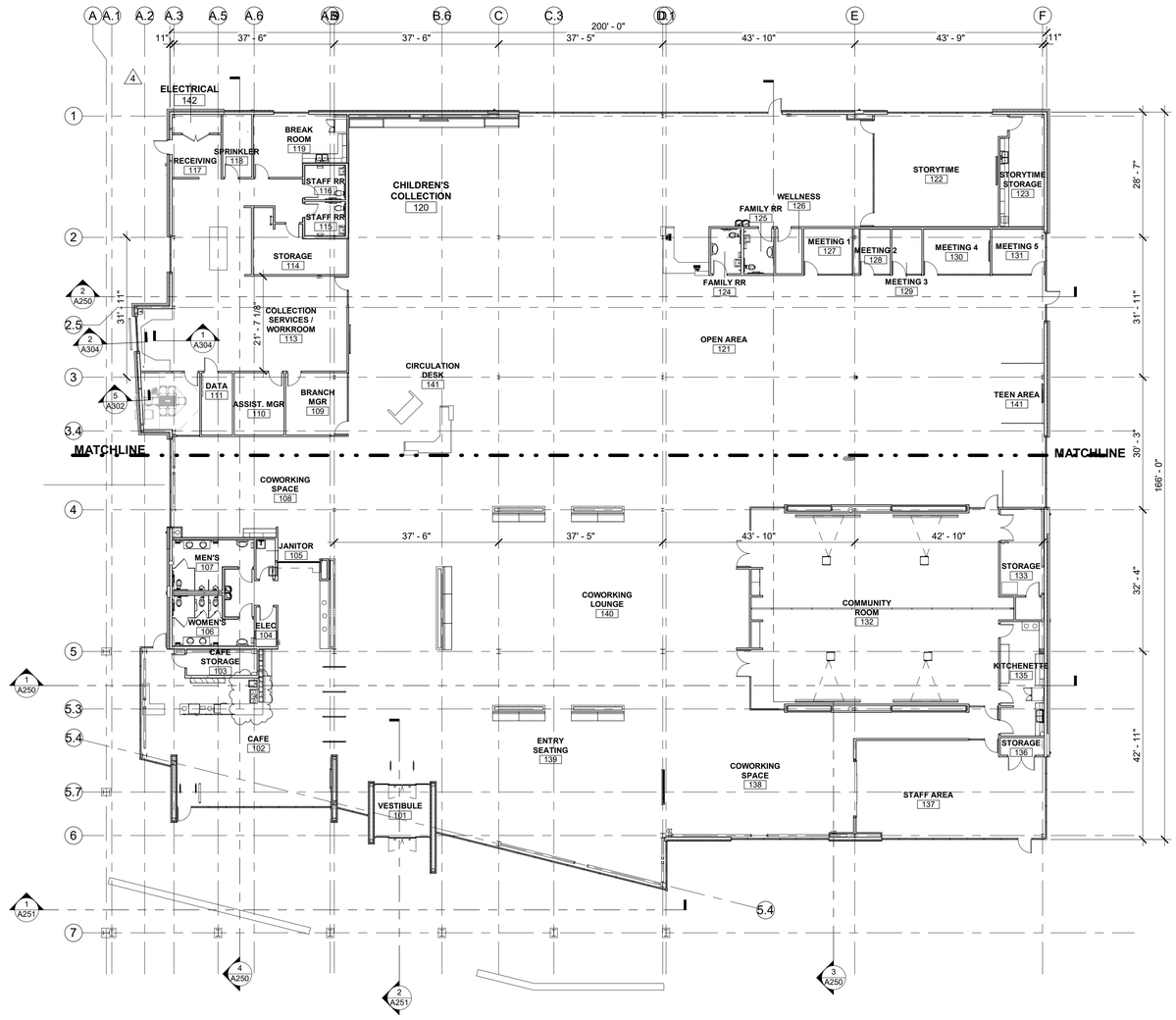

1 OVERALL FLOOR PLAN

1/16" = 1'-0"

GENERAL NOTES

1. ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF CMU. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE ± AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
2. SEE GENERAL NOTES ON G100 FOR WORK PERTAINING TO EXISTING CONDITIONS, DIMENSIONS, ETC.

KEYNOTES

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MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
4	ASI 02	03/13/20
5	ASI 03	Date 5

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A100

OVERALL FLOOR PLAN

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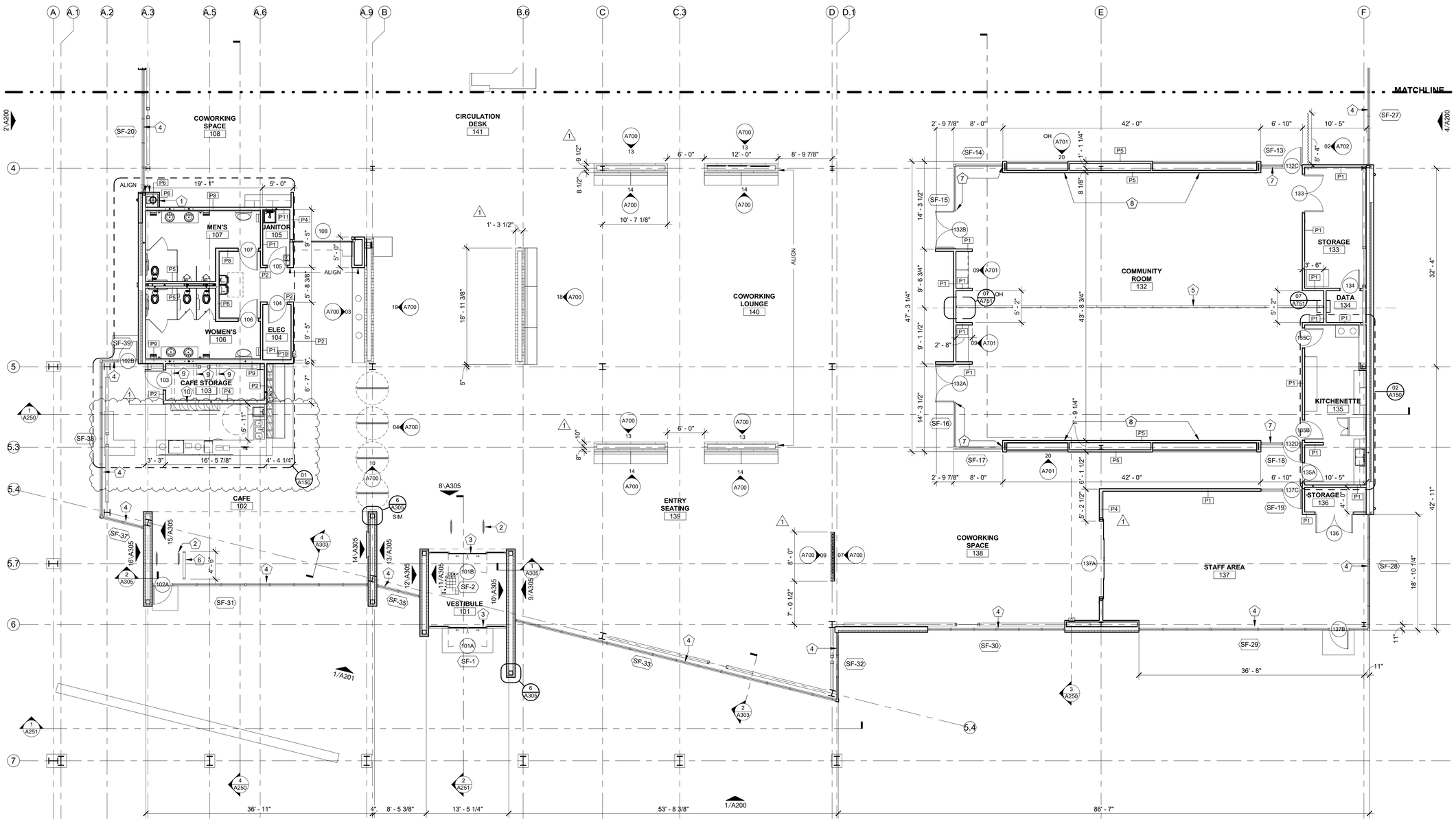
KEYNOTES

1	HOLD FURRING TIGHT TO DRAIN AND/OR COLUMN, TYP
2	RFID SECURITY GATES PROVIDED BY OWNER
3	AUTOMATIC SLIDING DOOR SYSTEM, REFER TO DOOR & WINDOW SCHEDULE. SEE SPECIFICATIONS FOR MORE INFORMATION
4	INSTALL MOTORIZED MECHOSHADE EXPOSED POCKET IN SATIN ANODIZED ALUM FINISH WITH THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT
5	MODERNFOLD ACOUSTI-SEAL ENCORE 56 PAIRED PANEL OPERABLE WALL SYSTEM. (2) PAIRED PANELS ON EACH END OF WALL TO BE CLAD IN MODERNFOLD FABRIC LUMA-SMOKE 111873-589 FULL HEIGHT. THE (3) PAIRED PANELS CENTERED IN WALL SYSTEM TO BE CLAD IN FULL HEIGHT MARKER BOARD. REF SPECIFICATION FOR PERFORMANCE REQUIREMENTS AND WARRANTY/MAINTENANCE PLAN.
6	4'-0" HIGH GLASS RAILING, REF SPECIFICATION FOR SYSTEM HARDWARE
7	INSTALL MANUAL MECHOSHADE RECESSED POCKET WITH WHITE FASCIA AND MANUAL THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT
8	INSTALL 22'-0" WIDE CONTINUOUS RECESSED AS DISPLAY TRACK REVEAL A1025 MOUNTED 9'-0" AFF AND CENTERED ON PARTITION. PROVIDE (12) 48" LINEAL P-END CABLE C2004 STAINLESS STEEL AND (12) SELF-GRIPPING HOOKS H3007AA.
9	PROVIDE BRACING FROM PARTIAL HEIGHT PARTITION BACK TO FULL HEIGHT PARTITION WHERE VERTICAL SHELVING BRACKETS ARE MOUNTED. ENSURE HORIZONTAL BRACING IS BELOW PARTIAL HEIGHT PARTITION. COORDINATE BRACING WITH MECHANICAL AND PLUMBING IN CEILING AREA OF CAFE STORAGE 103 AS REQUIRED. PAINT HORIZONTAL BRACING PT1 ON ALL EXPOSED SURFACES.
10	PROVIDE CONTINUOUS FULL HEIGHT 2X6 BLOCKING WITHIN PARTITION FOR WALL HUNG SHELVING DISPLAY



1 FLOOR PLAN - AREA A
1/8" = 1'-0"

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NUMBER A-5451
REGISTERED ARCHITECT
Michael John Heule, Architect MO A-5451

AREA A

KEY PLAN

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
2	ADDENDUM 02	01/20/20
5	ASI 03	Date 5

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.
A101
FLOOR PLAN - AREA A

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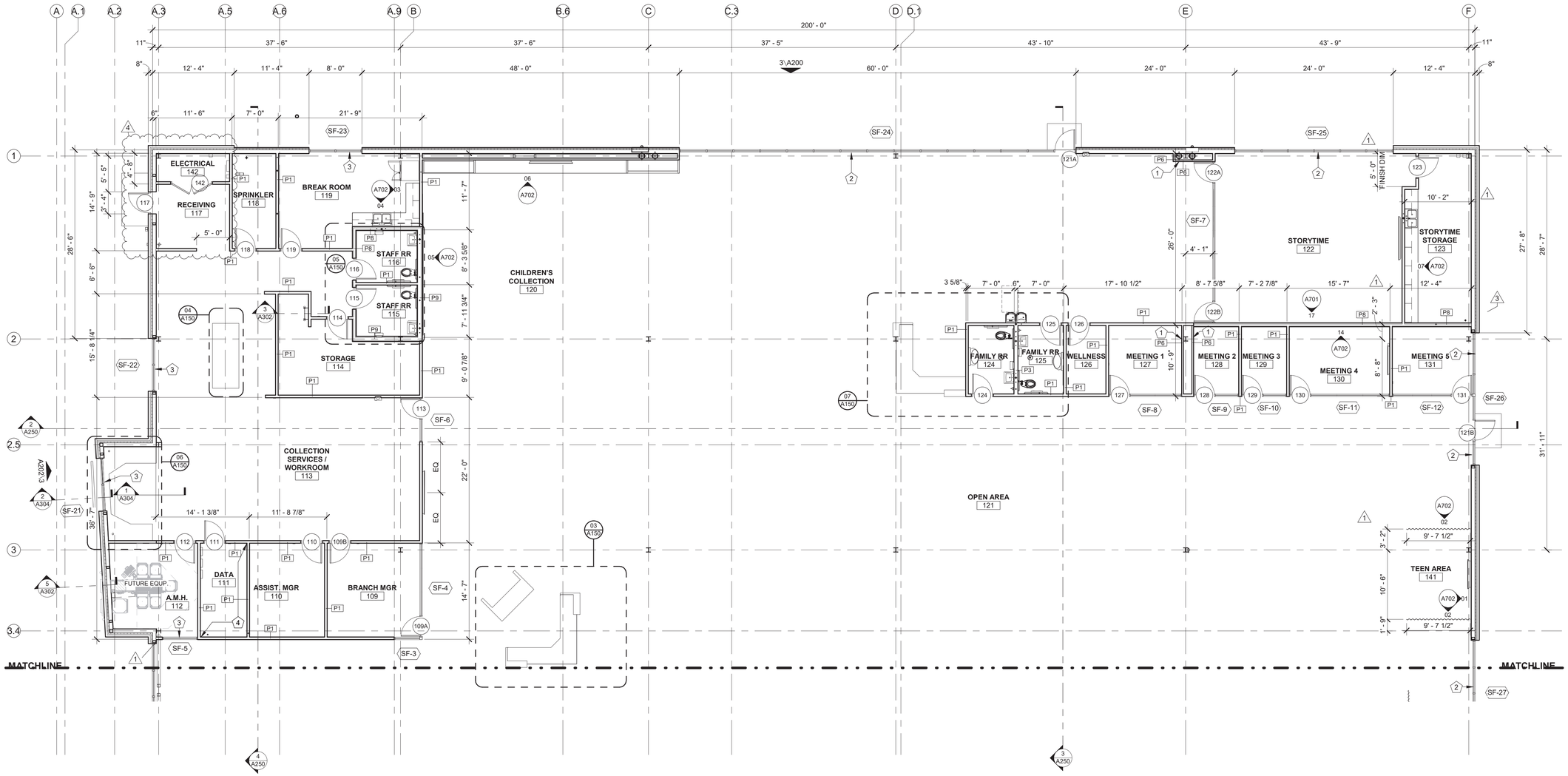
KEYNOTES

1	HOLD FURRING TIGHT TO DRAIN AND/OR COLUMN, TYP
2	INSTALL MOTORIZED MECHOSHADE EXPOSED POCKET IN SATIN ANODIZED ALUM FINISH WITH THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT
3	INSTALL MANUAL MECHOSHADE RECESSED POCKET WITH WHITE FASCIA AND MANUAL THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT
4	PROVIDE CONTINUOUS FIRE TREATED PLYWOOD TO PARTITION FOR AV EQUIPMENT



1 FLOOR PLAN - AREA B

1/8" = 1'-0"

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REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

AREA B

KEY PLAN

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
3	ASI 01	02/17/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A102

FLOOR PLAN - AREA B

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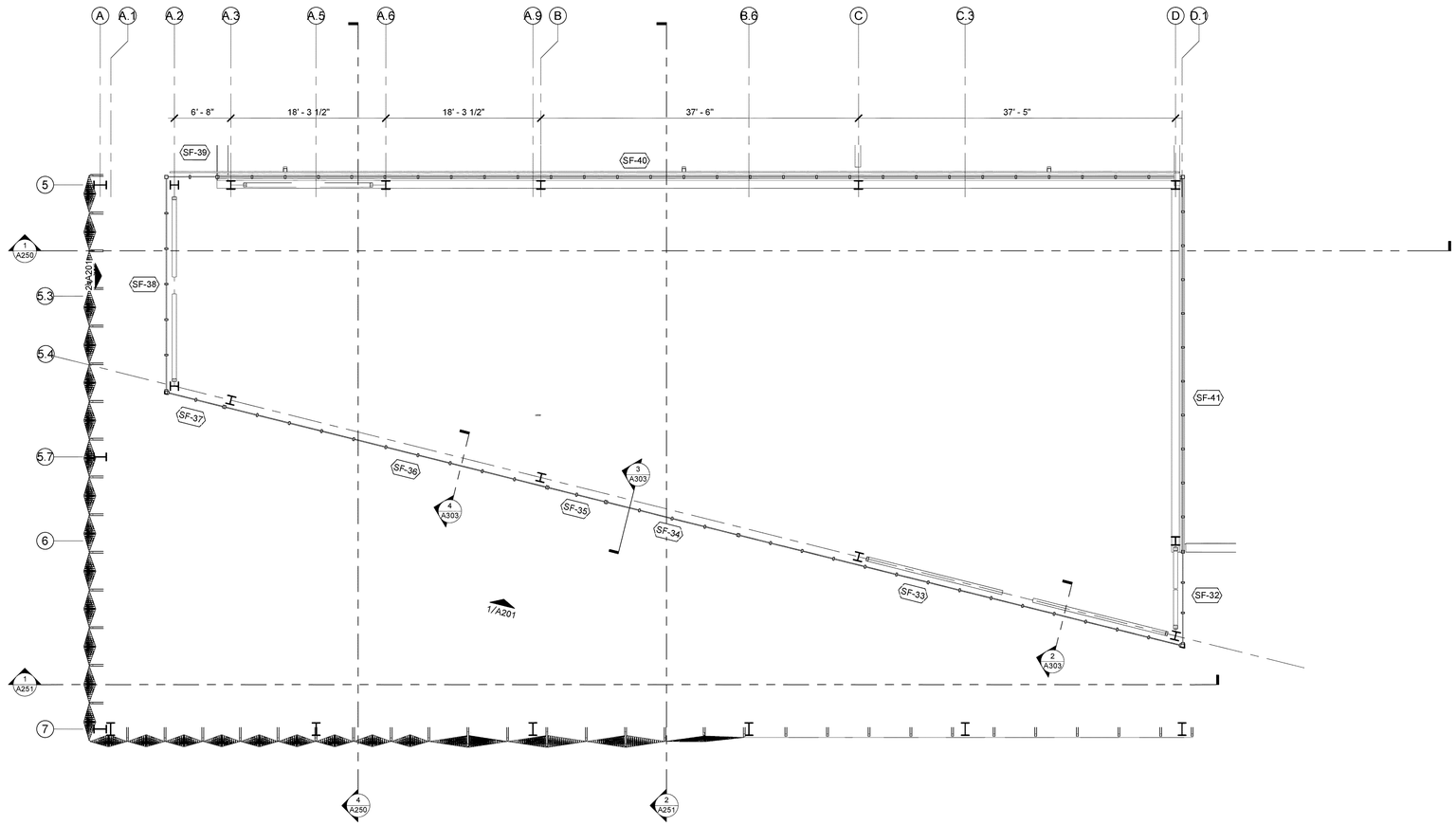

1 **CLERESTORY PLAN**
1/8" = 1'-0"

GENERAL NOTES

KEYNOTES

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NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051

AREA A

KEY PLAN

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A103
CLERESTORY PLAN

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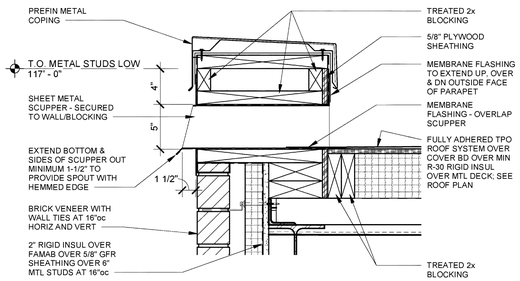
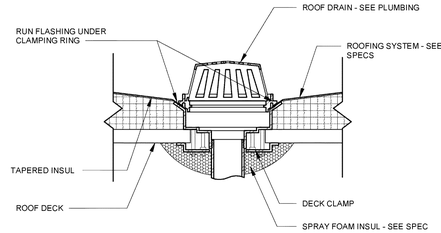
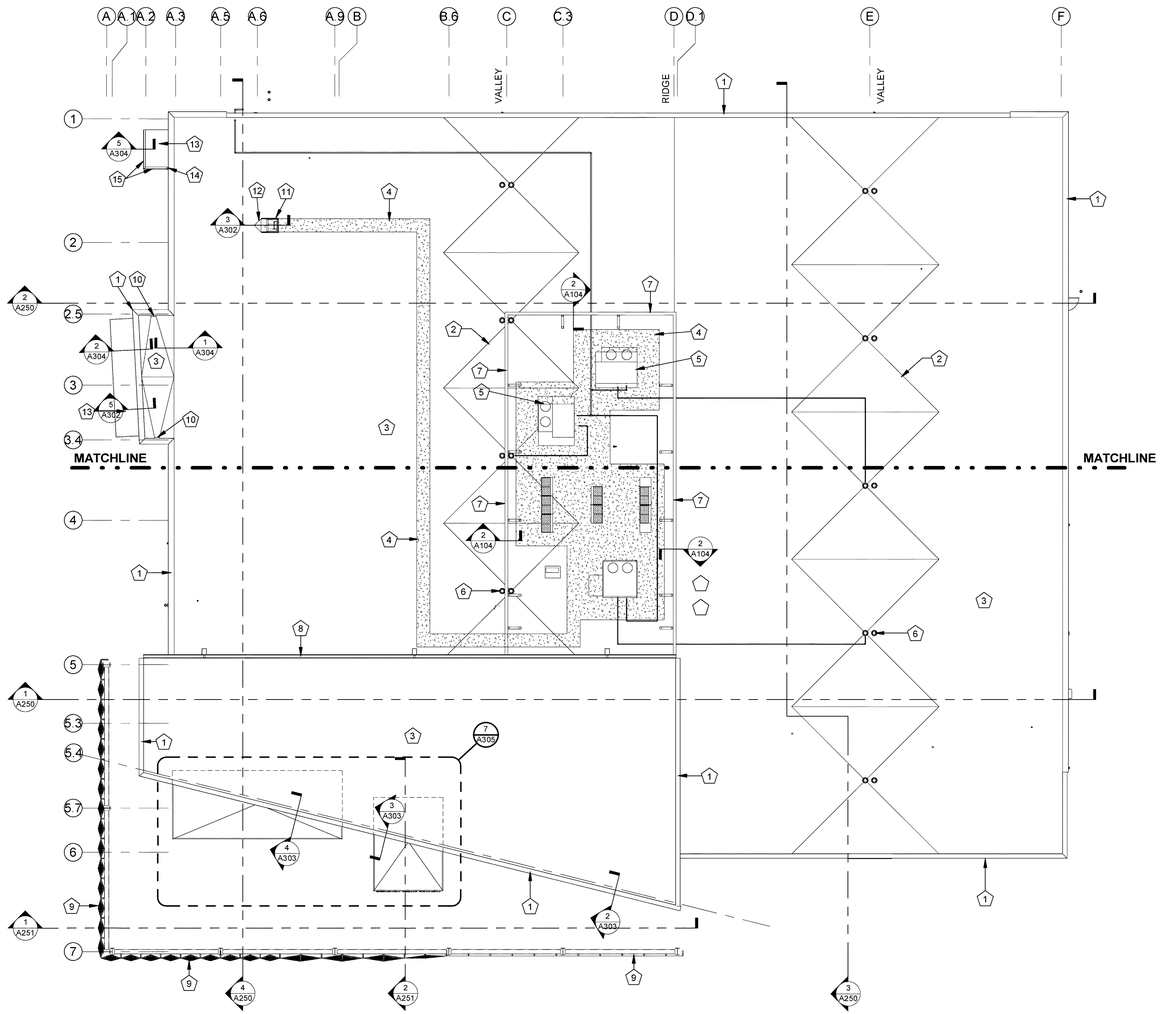


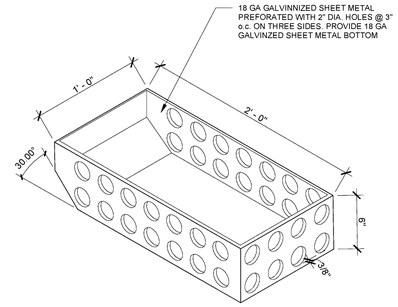
5 THRU-WALL SCUPPER DETAIL
1 1/2" = 1'-0"



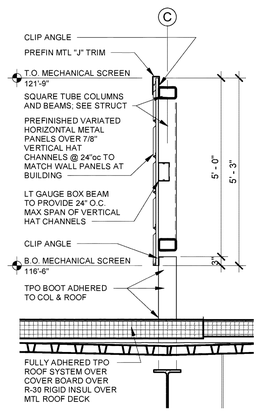
4 ROOF DRAIN DETAIL
1 1/2" = 1'-0"



1 OVERALL ROOF PLAN
1/16" = 1'-0"



3 SPLASH PAN DETAIL
1 1/2" = 1'-0"



2 MECHANICAL SCREEN DETAIL
1/2" = 1'-0"

ROOF PLAN KEYNOTES

1	PREFINISHED METAL PARAPET COPING - SEE WALL SECTIONS
2	TAPERED RIGID INSUL CRICKET - SEE SPEC
3	FULLY ADHERED TPO ROOF SYSTEM OVER COVER BOARD OVER MIN. R-30 RIGID INSULATION OVER METAL DECK, SEE SPEC
4	WALK PAD - SEE SPEC
5	ROOF TOP EQUIPMENT - SEE MECHANICAL
6	PRIMARY & EMERGENCY ROOF DRAIN OFFSET 12" FROM CENTERLINE OF BEAM, SEE WALL SECTION FOR MORE INFORMATION. SEE MEP & CIVIL FOR UNDERGROUND DRAINAGE
7	MECHANICAL SCREEN WALL, SEE DETAILS AND STRUCTURAL
8	7" DEEP X 7" WIDE PREFINISHED SEAMLESS SHEET METAL GUTTER
9	PERFORATED SCREEN WALL - SEE SECTIONS AND STRUCTURAL FOR MORE INFORMATION
10	THRU-WALL SCUPPER, SEE DETAIL 5/A104
11	ROOF HATCH, SEE WALL SECTIONS AND STRUCTURAL FOR MORE INFORMATION
12	INSTALL TAPERED INSUL CRICKET ON HIGH SIDE OF ROOF HATCH
13	FULLY ADHERED TPO ROOF SYSTEM OVER COVER BOARD OVER MIN. 1" TAPERED INSULATION OVER METAL DECK, SEE SPEC
14	4"X4" PREFINISHED METAL DOWNSPOUT
15	5" DEEP X 5" WIDE PREFINISHED SEAMLESS SHEET METAL GUTTER (WEST AND SOUTH SIDES OF CANOPY ONLY)

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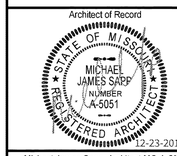

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A104
OVERALL ROOF PLAN

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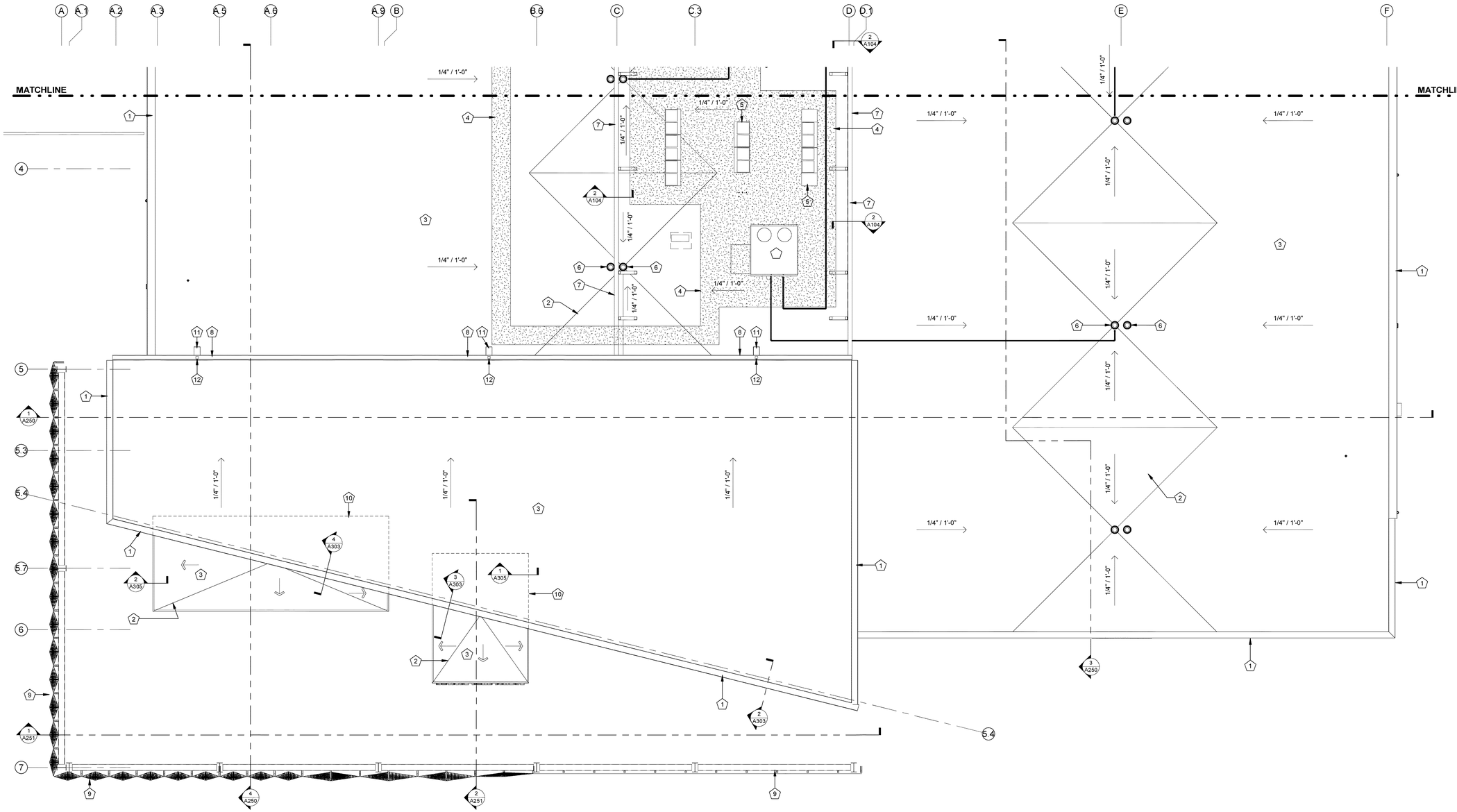
ROOF PLAN KEYNOTES

1	PREFINISHED METAL PARAPET COPING - SEE WALL SECTIONS
2	TAPERED RIGID INSUL CRICKET - SEE SPEC
3	FULLY ADHERED TPO ROOF SYSTEM OVER COVER BOARD OVER MIN. R-30 RIGID INSULATION OVER METAL DECK, SEE SPEC
4	WALK PAD - SEE SPEC
5	ROOF TOP EQUIPMENT - SEE MECHANICAL
6	PRIMARY & EMERGENCY ROOF DRAIN OFFSET 12" FROM CENTERLINE OF BEAM, SEE WALL SECTION FOR MORE INFORMATION. SEE MEP & CIVIL FOR UNDERGROUND DRAINAGE
7	MECHANICAL SCREEN WALL, SEE DETAILS AND STRUCTURAL
8	7" DEEP X 7" WIDE PREFINISHED SEAMLESS SHEET METAL GUTTER
9	PERFORATED SCREEN WALL - SEE SECTIONS AND STRUCTURAL FOR MORE INFORMATION
10	HIDDEN LINES INDICATE EXTENT OF LOW ROOF
11	SHEET METAL SPLASH PAN. SEE DETAIL ON SHEET A104
12	5"X5" PREFINISHED METAL DOWNSPOUT



1 ROOF PLAN - AREA A
1/8" = 1'-0"

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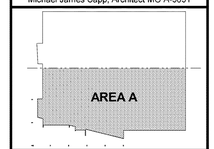

KEY PLAN

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A105
ROOF PLAN - AREA A

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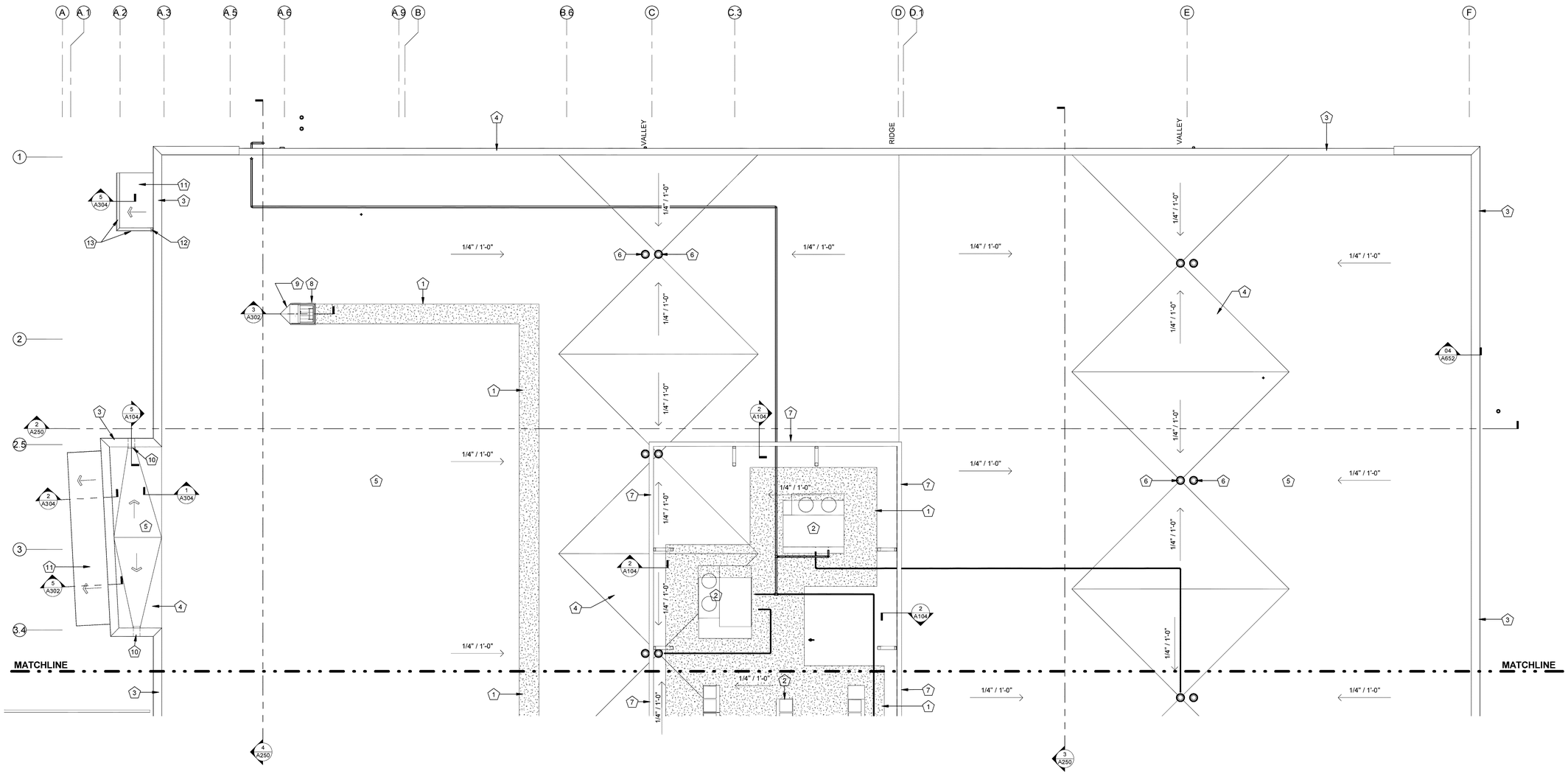
ROOF PLAN KEYNOTES

1	WALK PAD - SEE SPEC
2	ROOF TOP EQUIPMENT - SEE MECHANICAL
3	PREFINISHED METAL PARAPET COPING - SEE WALL SECTIONS
4	TAPERED RIGID INSUL CRICKET - SEE SPEC
5	FULLY ADHERED TPO ROOF SYSTEM OVER COVER BOARD OVER MIN. R-30 RIGID INSULATION OVER METAL DECK, SEE SPEC
6	PRIMARY & EMERGENCY ROOF DRAIN OFFSET 12" FROM CENTERLINE OF BEAM, SEE WALL SECTION FOR MORE INFORMATION. SEE MEP & CIVIL FOR UNDERGROUND DRAINAGE
7	MECHANICAL SCREEN WALL, SEE DETAILS AND STRUCTURAL
8	ROOF HATCH, SEE WALL SECTIONS AND STRUCTURAL FOR MORE INFORMATION
9	INSTALL TAPERED INSUL CRICKET ON HIGH SIDE OF ROOF HATCH
10	THRU-WALL SCUPPER, SEE DETAIL 5/A104
11	FULLY ADHERED TPO ROOF SYSTEM OVER COVER BOARD OVER MIN. 1" TAPERED INSULATION OVER METAL DECK, SEE SPEC
12	4"X4" PREFINISHED METAL DOWNSPOUT
13	5" DEEP X 5" WIDE PREFINISHED SEAMLESS SHEET METAL GUTTER (WEST AND SOUTH SIDES OF CANOPY ONLY)



2 ROOF PLAN - AREA B

1/8" = 1'-0"

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12-23-2019

Michael James Sapp, Architect MO A-5051

AREA B

KEY PLAN

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A106

ROOF PLAN - AREA B

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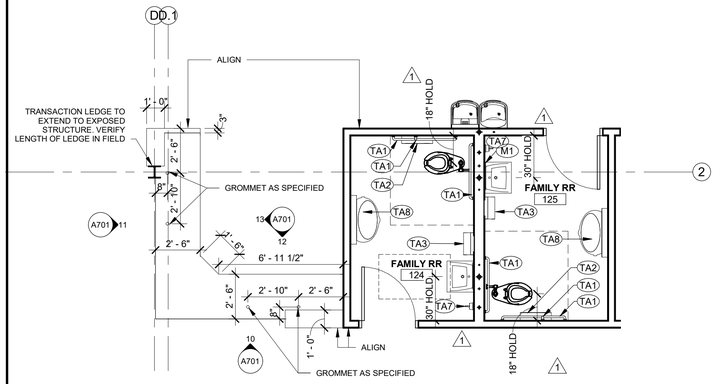
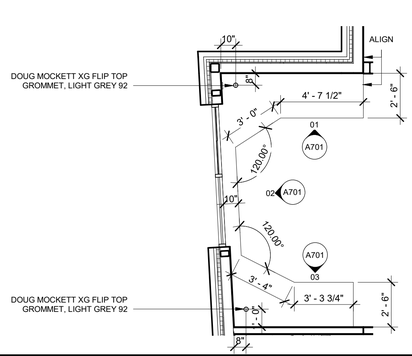


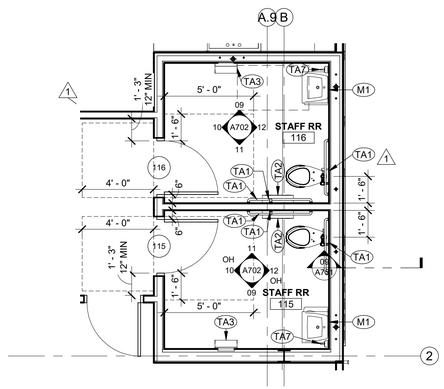
07 ENLARGED PLAN - FAMILY RR & CHILDREN'S CIRC DESK

1/4" = 1'-0"



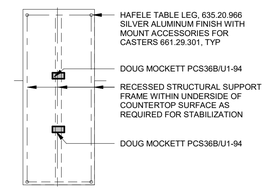
06 ENLARGED PLAN - DRIVE UP WINDOW DESK

1/4" = 1'-0"



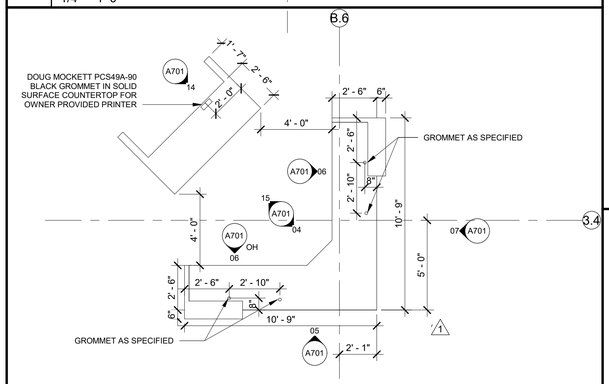
05 ENLARGED PLAN - STAFF RR

1/4" = 1'-0"



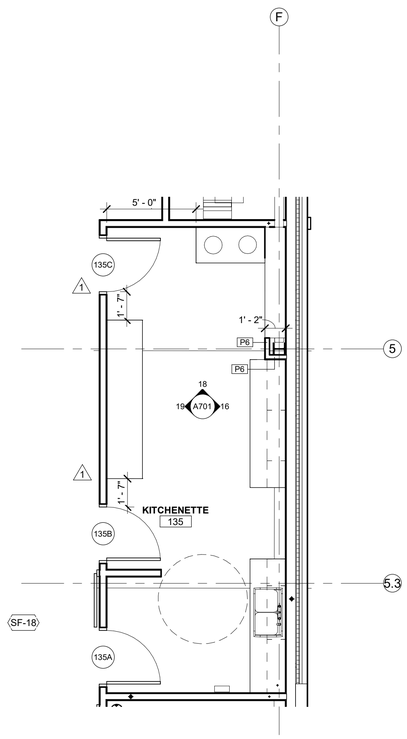
04 ENLARGED PLAN - WORKROOM ISLAND

1/4" = 1'-0"



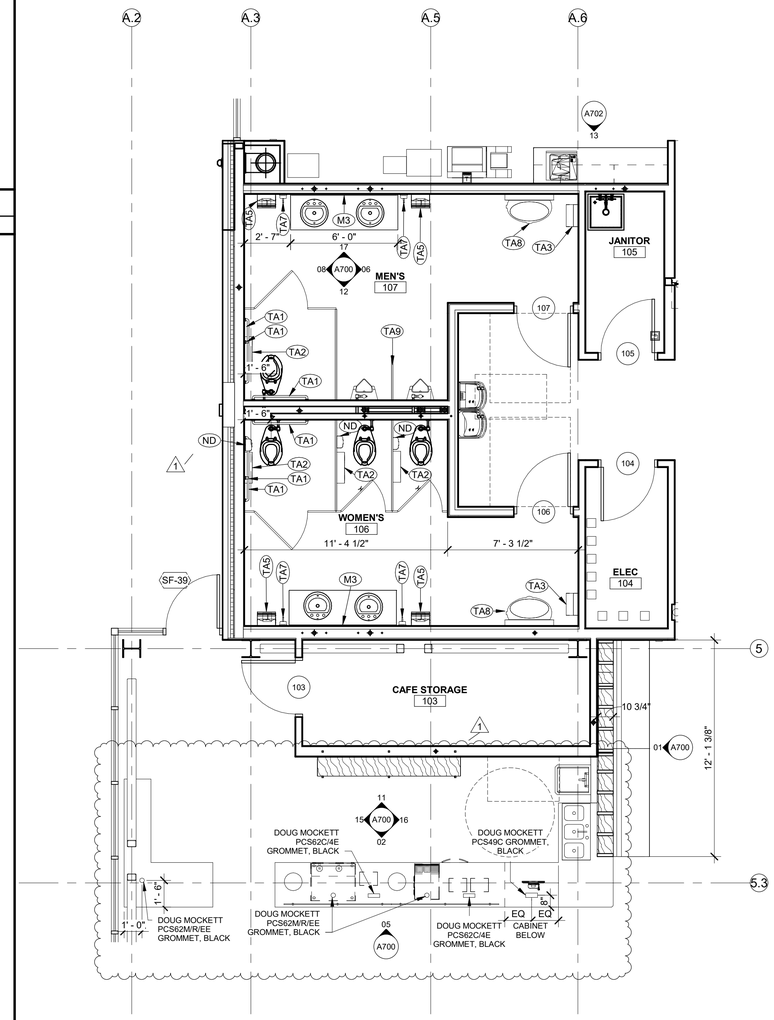
03 ENLARGED PLAN - CIRCULATION DESK

1/4" = 1'-0"



02 ENLARGED PLAN - KITCHENETTE

1/4" = 1'-0"



01 ENLARGED PLAN - CAFE + RESTROOMS

1/4" = 1'-0"

EQUIPMENT SCHEDULE

Type Mark	Description	Comments
M1	MIRROR 24"x36" - SEE SPEC	GC PROVIDED, GC INSTALLED
M3	MIRROR 72"x42"- SEE SPEC	GC PROVIDED, GC INSTALLED
ND	FEMININE NAPKIN DISPOSAL	GC PROVIDED, GC INSTALLED
TA1	ADA GRAB BARS - SEE SPEC	GC PROVIDED, GC INSTALLED
TA2	TOILET PAPER DISPENSER - SEE SPEC	OWNER PROVIDED, GC INSTALLED
TA3	PAPER TOWEL DISPENSER - SEE SPEC	OWNER PROVIDED, GC INSTALLED
TA5	ELECTRIC HAND DRYER - SEE SPEC	GC PROVIDED, GC INSTALLED
TA7	SOAP DISPENSER - SEE SPEC	OWNER PROVIDED, GC INSTALLED
TA8	BABY CHANGING TABLE - SEE SPEC	GC PROVIDED, GC INSTALLED
TA9	URINAL SCREEN - SEE SPEC	GC PROVIDED, GC INSTALLED

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Architect of Record
STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT
Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
4	ASI 02	03/13/20
5	ASI 03	Date 5

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A150

ENLARGED PLANS

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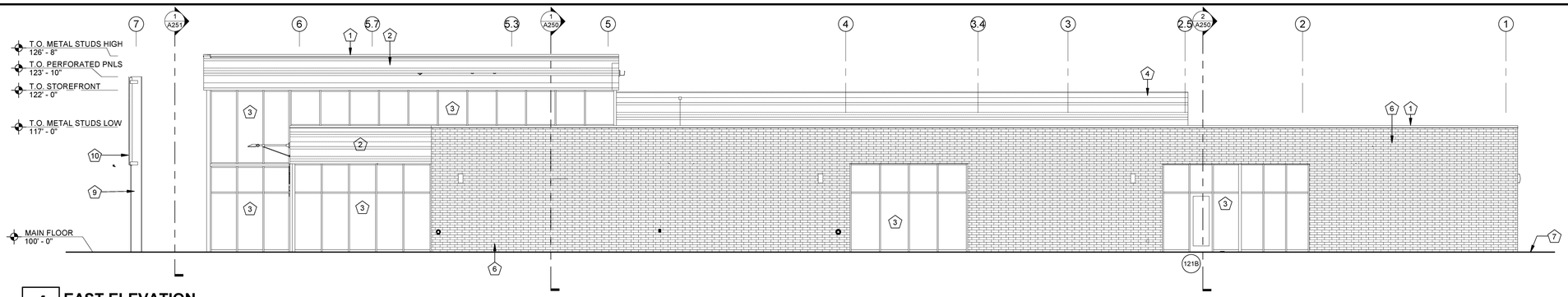
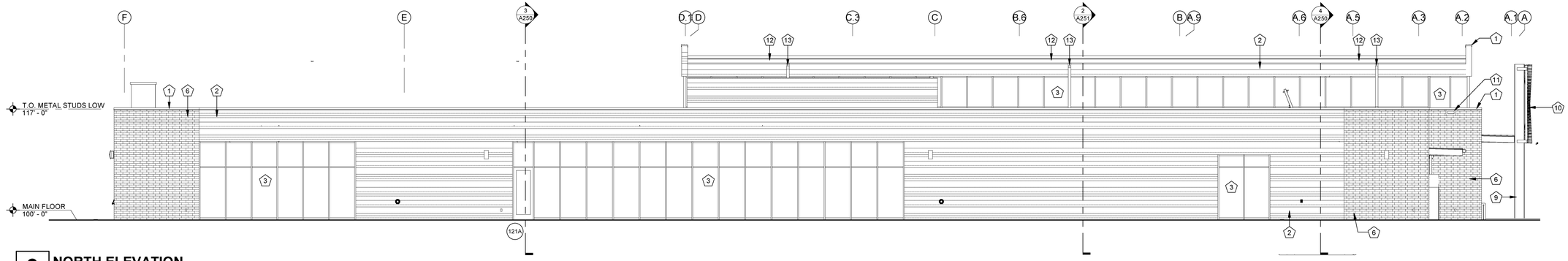


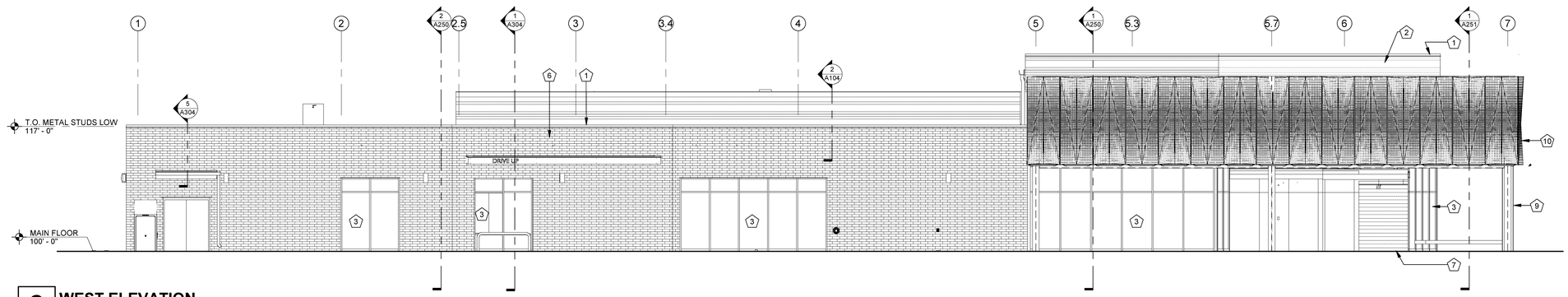
4 EAST ELEVATION

1/8" = 1'-0"



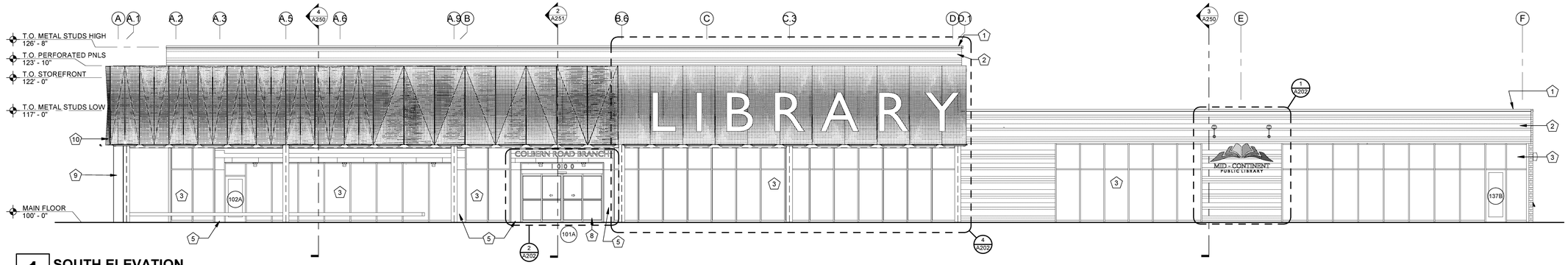
3 NORTH ELEVATION

1/8" = 1'-0"



2 WEST ELEVATION

1/8" = 1'-0"



1 SOUTH ELEVATION

1/8" = 1'-0"

KEYNOTES

1	PREFINISHED METAL PARAPET CAP OR ROOF EDGE TRIM
2	PREFINISHED VARIATED HORIZ MTL PANELS WITH STANDARD SHOP FAB CORNERS AND TRIM - SEE SPECS
3	WINDOWS, DOORS, DOOR FRAMES & STOREFRONT SEE DOOR & WINDOW SCHEDULES
4	MECHANICAL SCREEN WALL, SEE ROOF PLAN FOR MORE INFORMATION
5	COMPOSITE METAL PANELS - SEE SPEC
6	BRICK VENEER - SEE SPEC
7	FINISH GRADE - SEE SITE GRADING PLAN
8	AUTOMATIC SLIDING DOOR SYSTEM, REFER TO DOOR & WINDOW SCHEDULE. SEE SPECIFICATIONS FOR MORE INFORMATION
9	PAINTED EXPOSED STEEL COLUMNS - SEE STRUCTURAL
10	PERFORATED SCREEN WALL - SEE SECTIONS AND STRUCTURAL FOR MORE INFORMATION
11	THRU-WALL SCUPPER, SEE DETAIL 5/A104
12	7" DEEP X 7" WIDE PREFINISHED SEAMLESS SHEET METAL GUTTER
13	5"X5" PREFINISHED METAL DOWNSPOUT

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MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A200

ELEVATIONS

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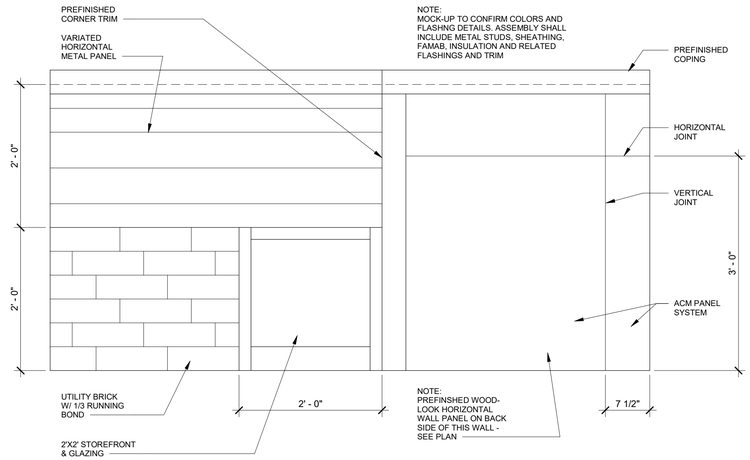
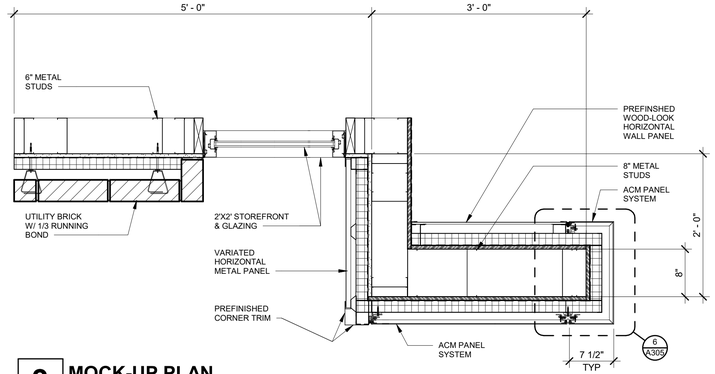
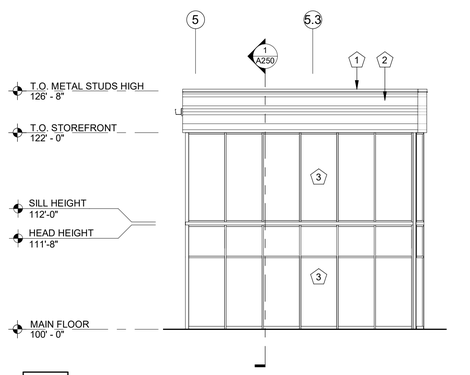


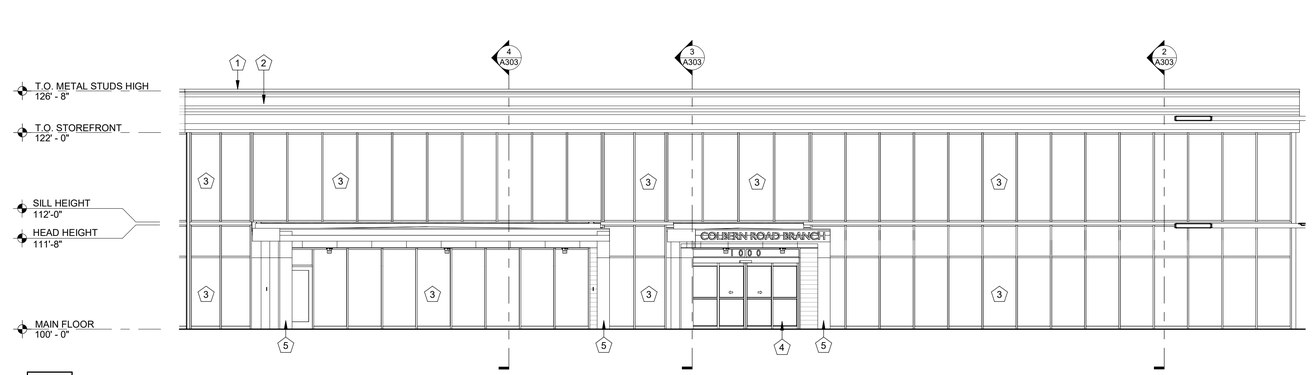
4 MOCK-UP ELEVATION
1" = 1'-0"



3 MOCK-UP PLAN
1" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



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

KEYNOTES

1	PREFINISHED METAL PARAPET CAP OR ROOF EDGE TRIM
2	PREFINISHED VARIATED HORIZ MTL PANELS WITH STANDARD SHOP FAB CORNERS AND TRIM - SEE SPECS
3	WINDOWS, DOORS, DOOR FRAMES & STOREFRONT SEE DOOR & WINDOW SCHEDULES
4	AUTOMATIC SLIDING DOOR SYSTEM. REFER TO DOOR & WINDOW SCHEDULE. SEE SPECIFICATIONS FOR MORE INFORMATION
5	COMPOSITE METAL PANELS - SEE SPEC

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MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019
Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A201
ELEVATIONS

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SIGNAGE GENERAL NOTES

1. PROVIDE LAYOUT DRAWING OF EACH SIGN SHOWING SIZE, SPACING, ETC. PROVIDE SAMPLE OF LETTER TYPES AND MATERIALS.

2. PRODUCTS TO BE SIMILAR OR EQUAL TO PRODUCTS BY GEMINI, OR EQ. COLORS AS SELECTED BY ARCHITECT FOR LETTERS.

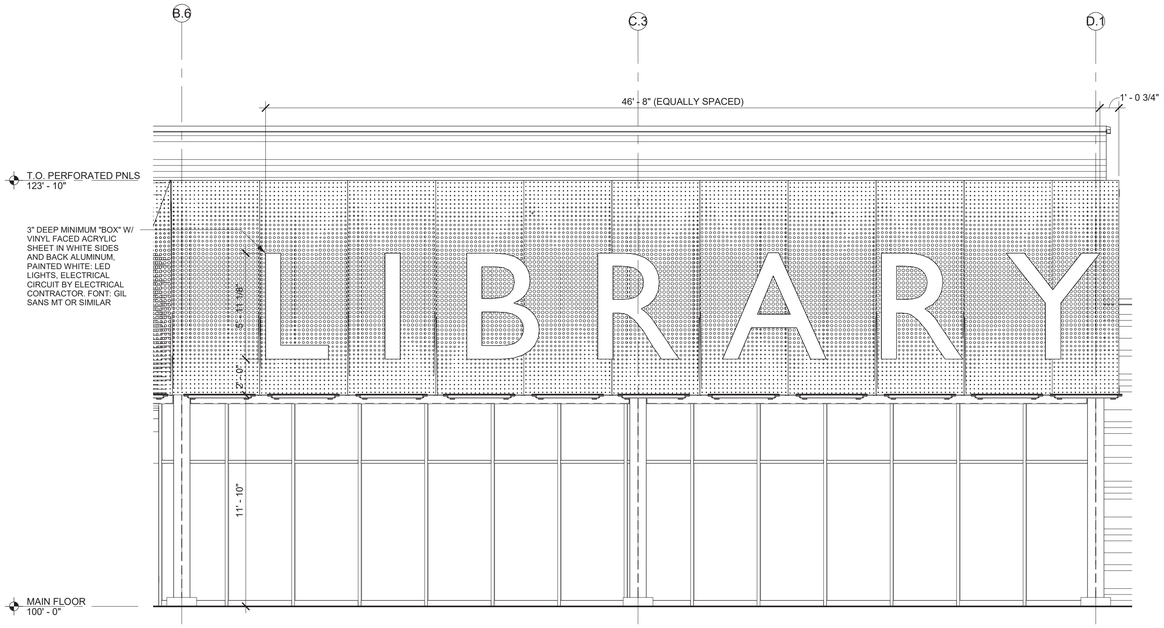
3. ARCHITECT TO PROVIDE LAYOUT FILE FOR LOGO, AND PANTONE COLORS TO BE MATCHED BY FABRICATOR.

4. CONFIRM MOUNTING CONDITIONS AND ANCHOR TYPES FOR EACH TYPE OF SIGN PRIOR TO INSTALLATION. ALL ANCHORS ARE TO BE CONCEALED PINS AND STUDS. ALL ANCHORS ARE TO BE WATER TIGHT AND WEATHER PROOF.

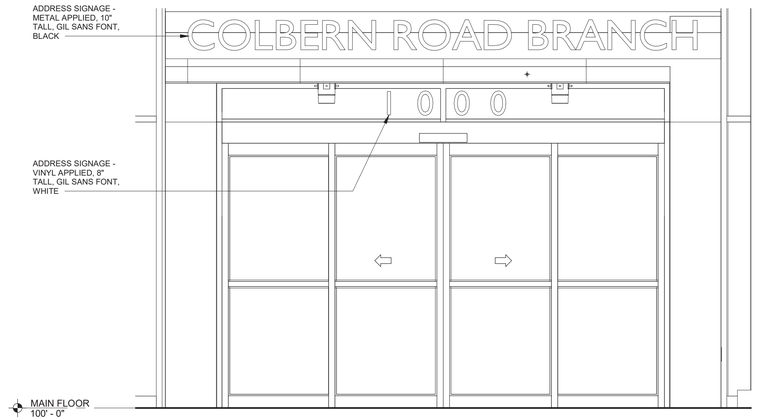
5. SIGN "BOXES": CONSTRUCT OF SHT MTG TYPE AND SIZE AS NEC.; WATER TIGHT, MINIMAL VISIBLE JOINTS, CONCEALED FASTENING; BRACING AND SUPPORTS AS REQUIRED; KYNAR FINISH OR EQ.; OR MAY BE PREFAB UNITS EQUAL TO MAPES. PROVIDE SHOP DRAWINGS.

6. PROVIDE ONE YR. FABRICATOR'S WARRANTY; AND MFR'S STANDARD WNTY. ON PRODUCT.

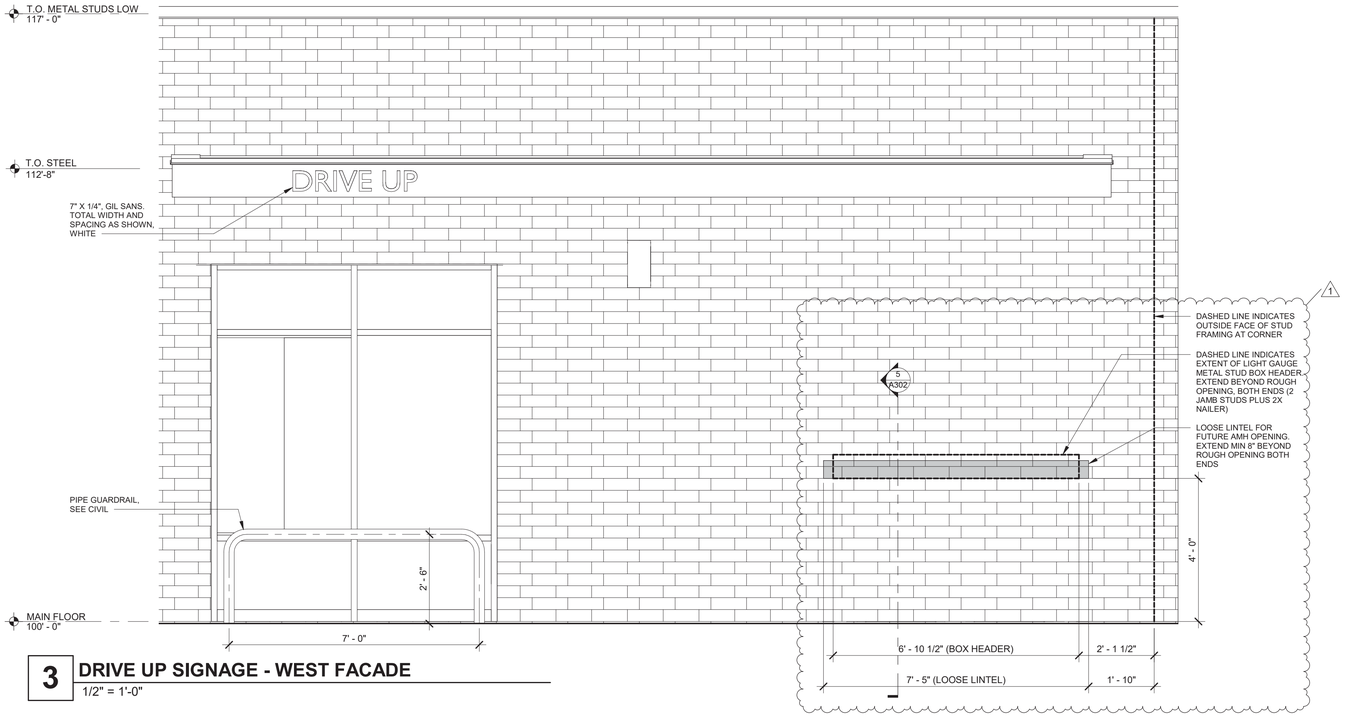
7. LIGHTED ALTERNATES: PROVIDE POWER FROM NEAREST VIABLE NON-SWITCHED CIRCUIT; INCLUDE TIME CLOCK AT APPROVED ACCESSIBLE LOCATION IN CLOSET OR UTILITY AREA.



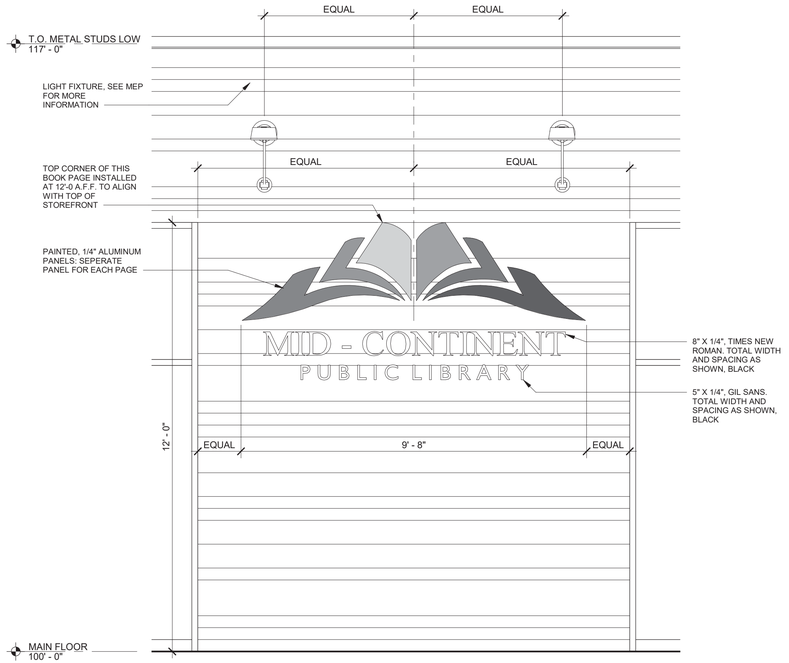
4 LIBRARY SIGNAGE - SOUTH FACADE
1/4" = 1'-0"



2 ADDRESS SIGNAGE - SOUTH FACADE
1/2" = 1'-0"



3 DRIVE UP SIGNAGE - WEST FACADE
1/2" = 1'-0"



1 MCPL LOGO SIGNAGE - SOUTH FACADE
1/2" = 1'-0"

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MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
1-13-2020
Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
1	ADDENDUM 01	01/10/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A202
SIGNAGE

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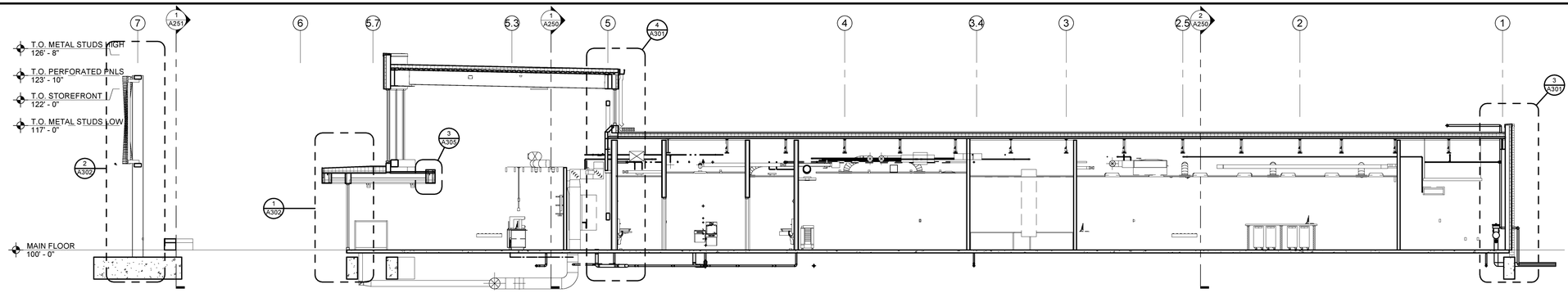
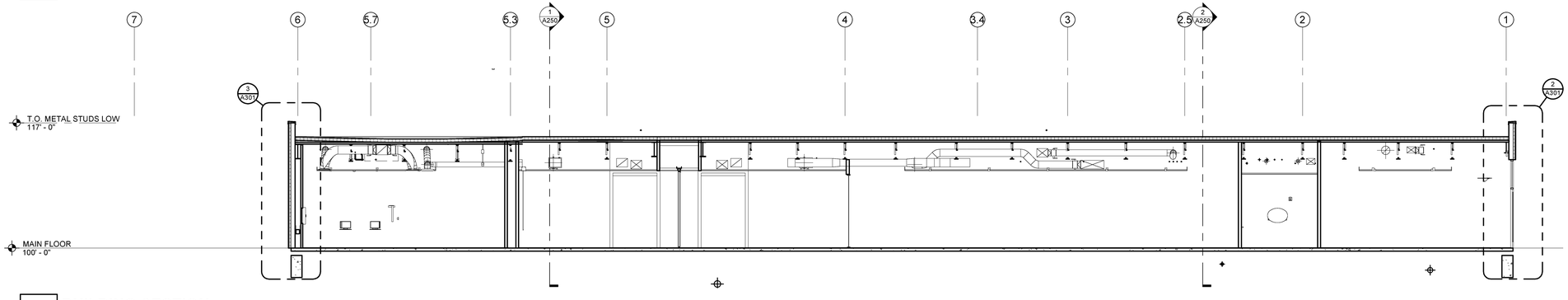


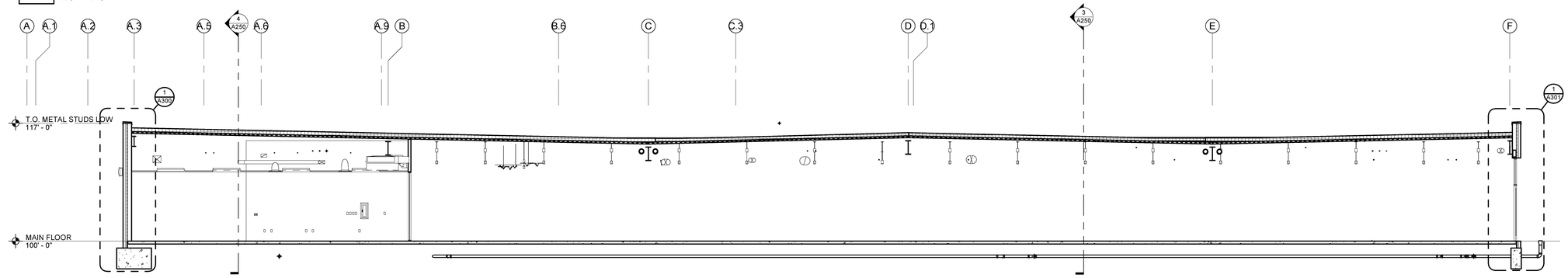
4 BUILDING SECTION

1/8" = 1'-0"



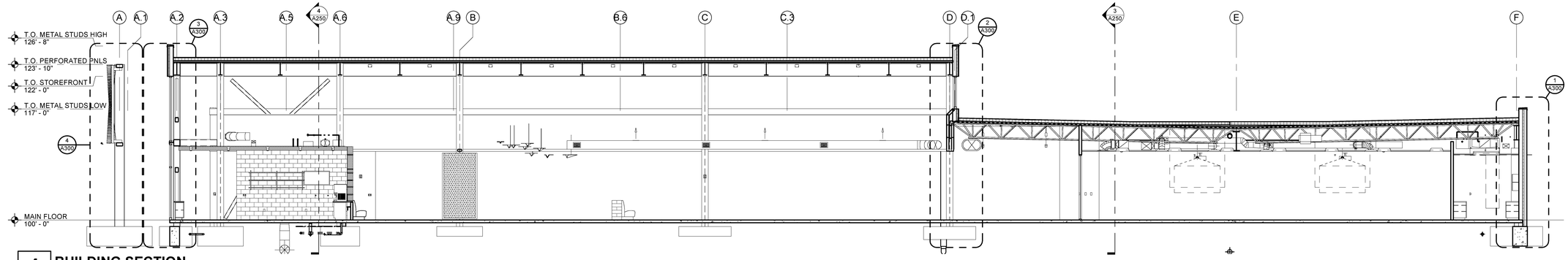
3 BUILDING SECTION

1/8" = 1'-0"



2 BUILDING SECTION

1/8" = 1'-0"



1 BUILDING SECTION

1/8" = 1'-0"

KEYNOTES

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12-23-2019

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A250

BUILDING SECTIONS

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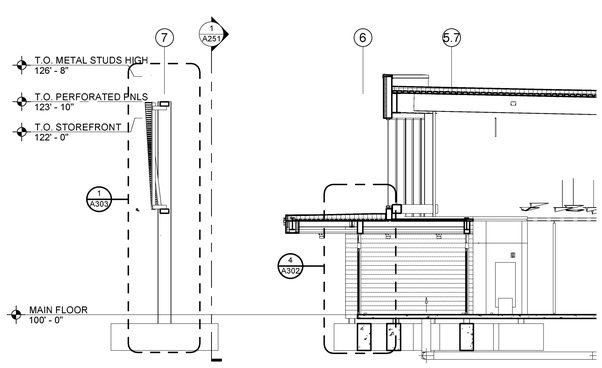
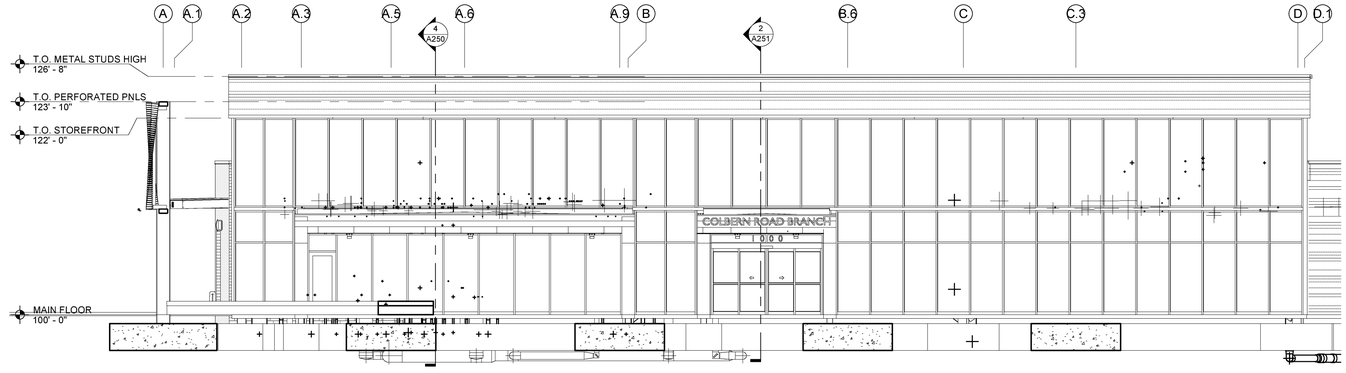
KEYNOTES



2 BUILDING SECTION

1/8" = 1'-0"



1 BUILDING SECTION

1/8" = 1'-0"

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12-23-2019

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A251

BUILDING SECTIONS

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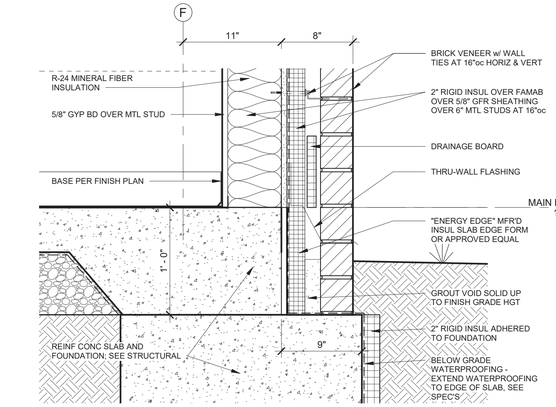
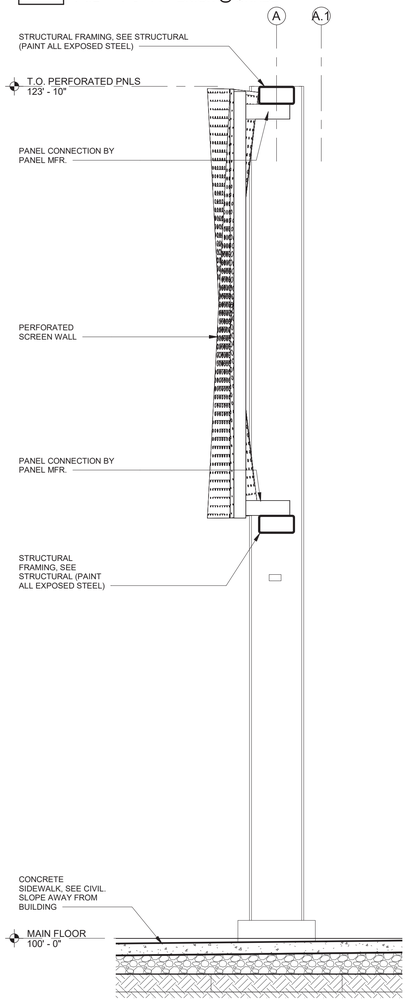
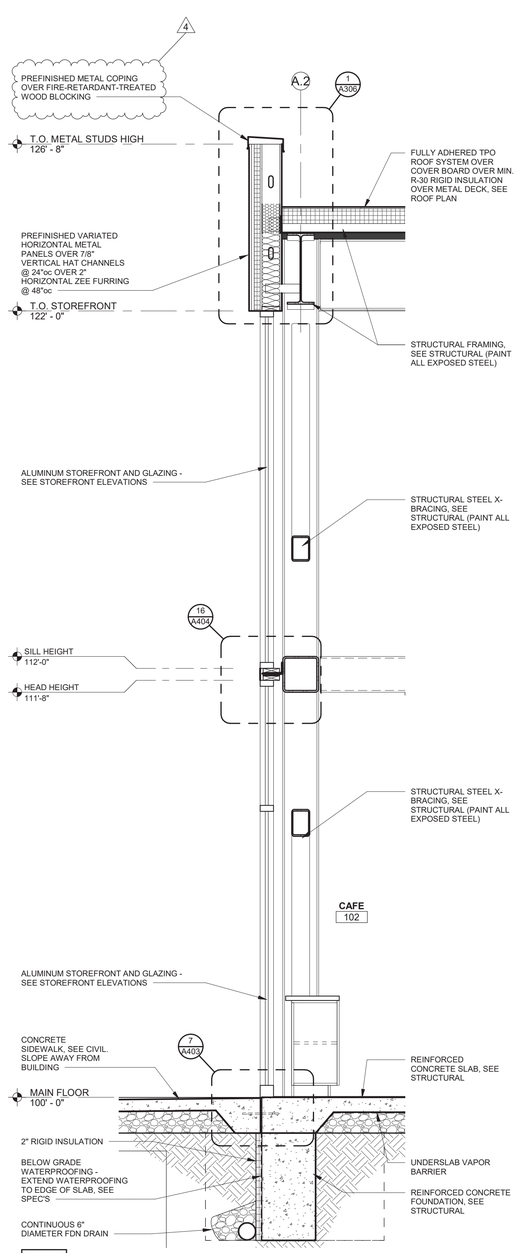


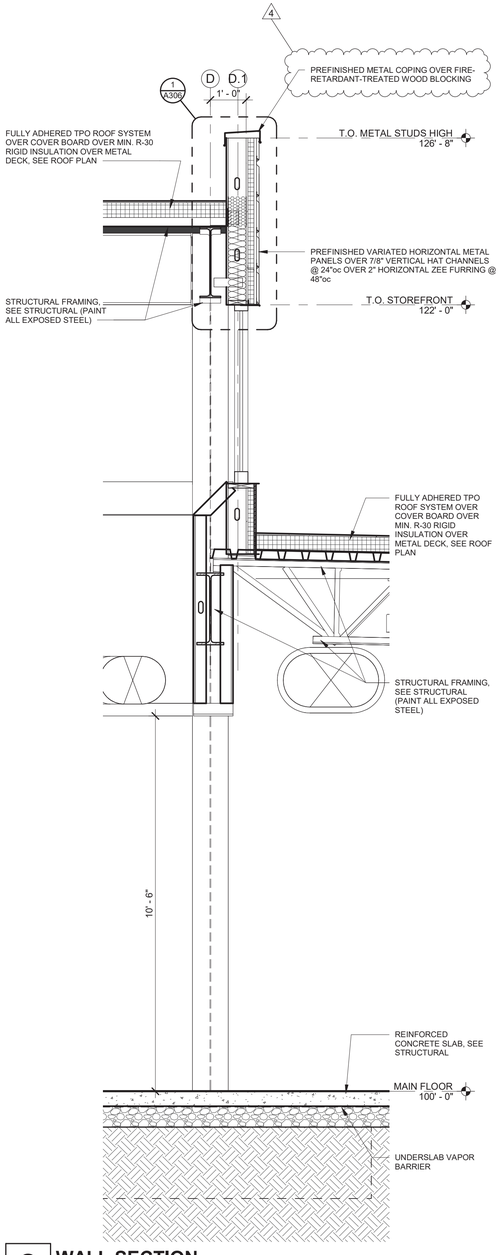
6 DETAIL
1 1/2" = 1'-0" **TYP BRICK @ GRADE**



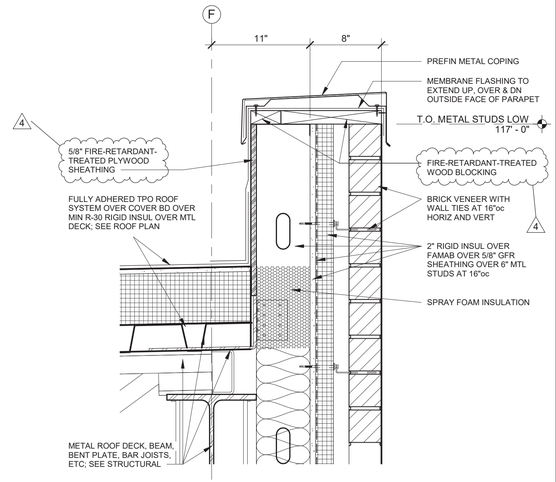
4 WALL SECTION
1/2" = 1'-0"



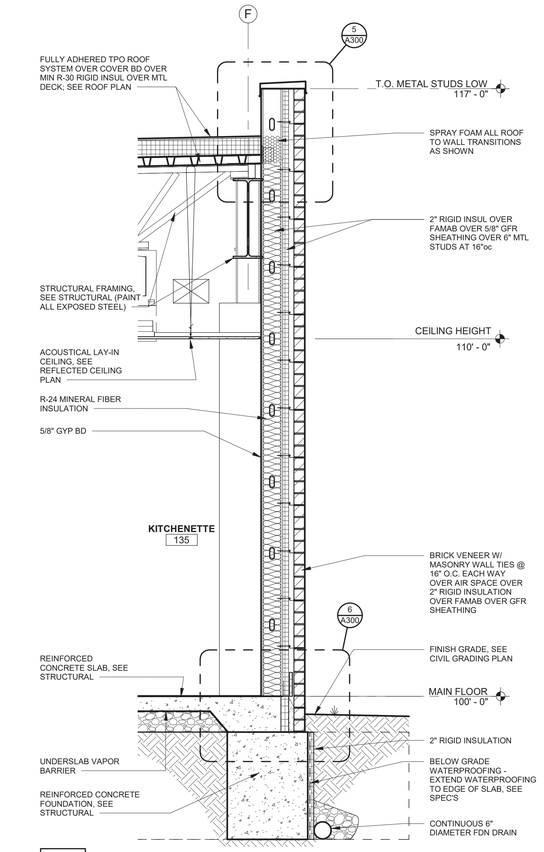
3 WALL SECTION
1/2" = 1'-0"



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



5 DETAIL
1 1/2" = 1'-0"



1 WALL SECTION
1/2" = 1'-0" **EAST WALL @ KITCHENETTE 134**

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STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
3-13-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
2	ADDENDUM 02	01/20/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A300
WALL SECTIONS

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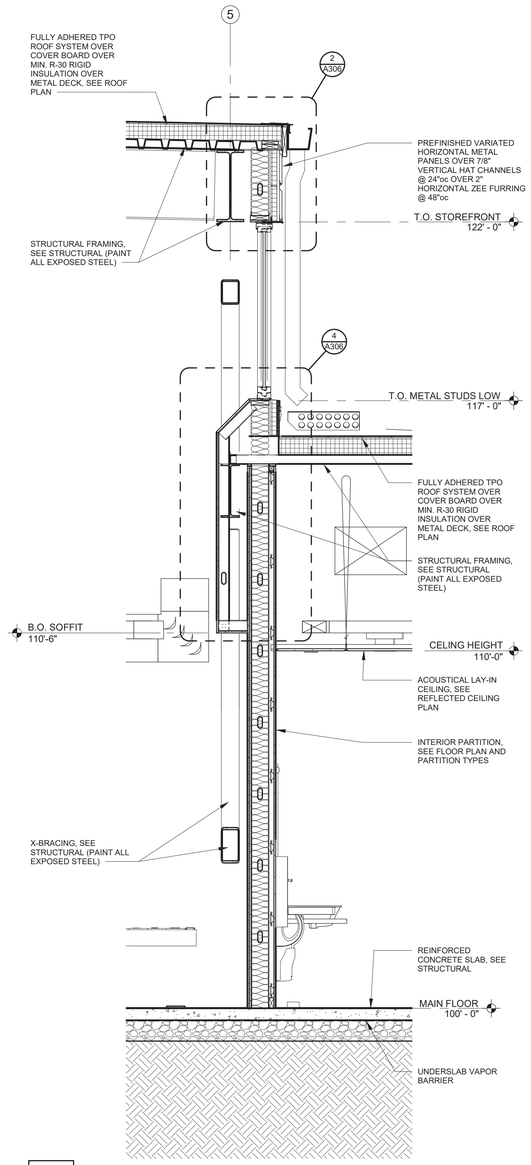

4 WALL SECTION
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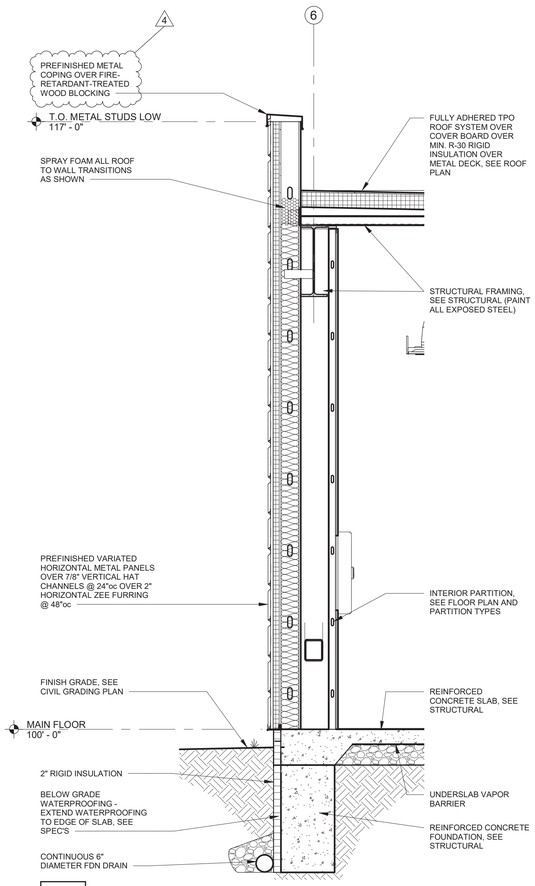
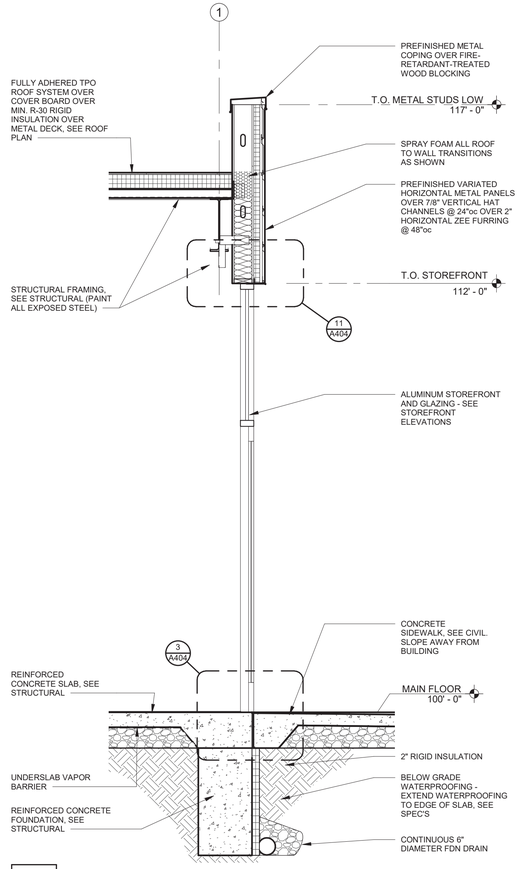


3 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
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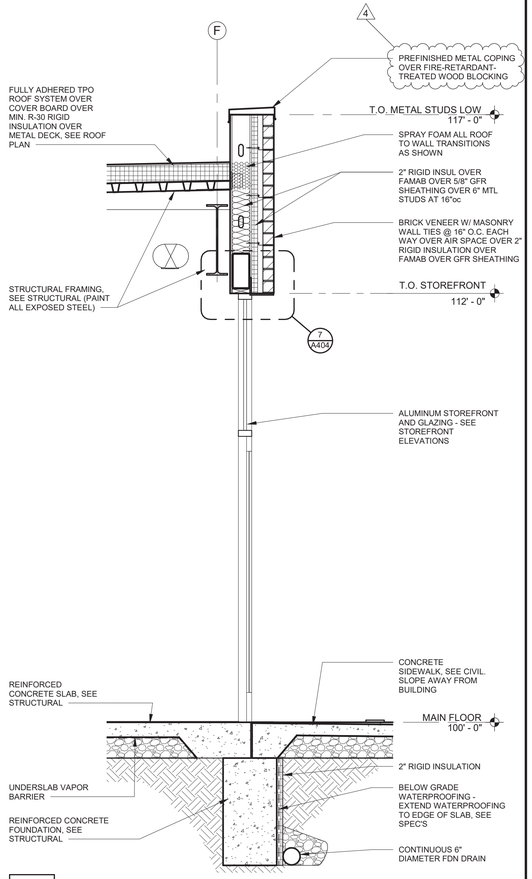

1 WALL SECTION
1/2" = 1'-0"

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MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
3-13-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A301
WALL SECTIONS

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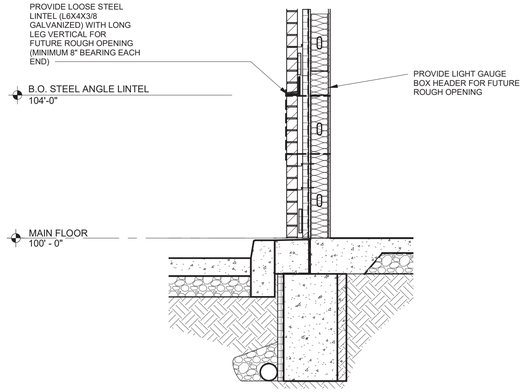
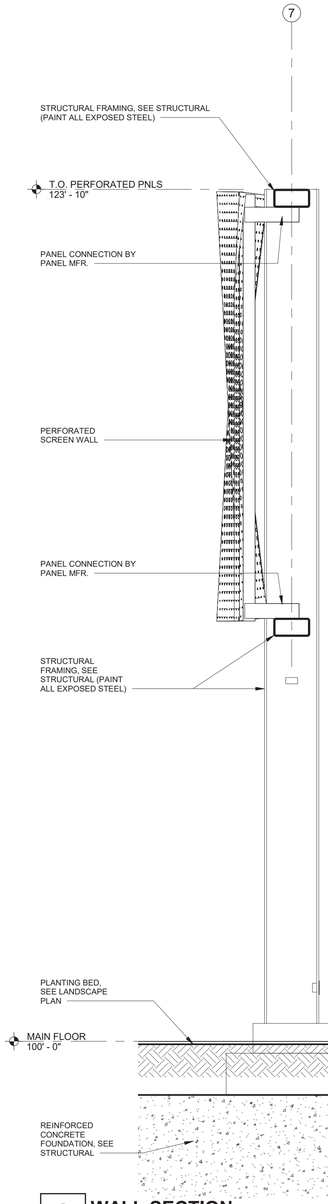


5 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
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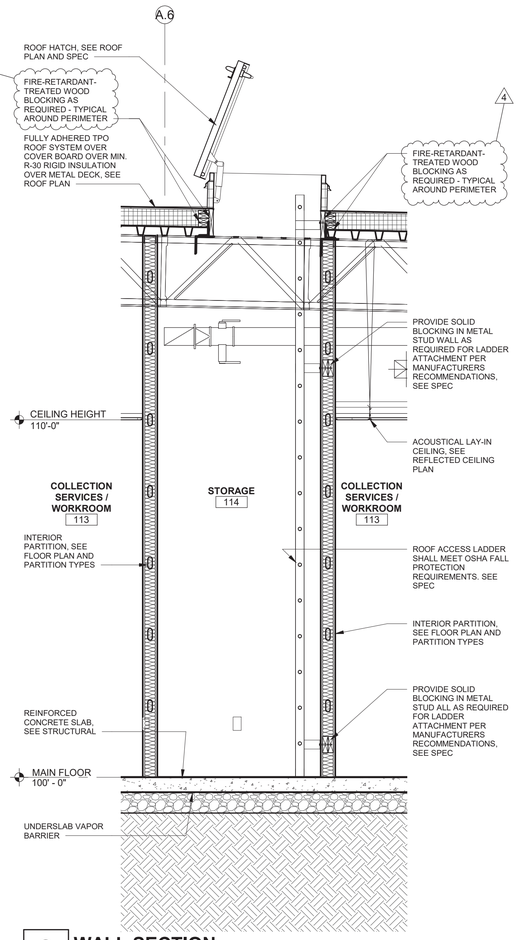
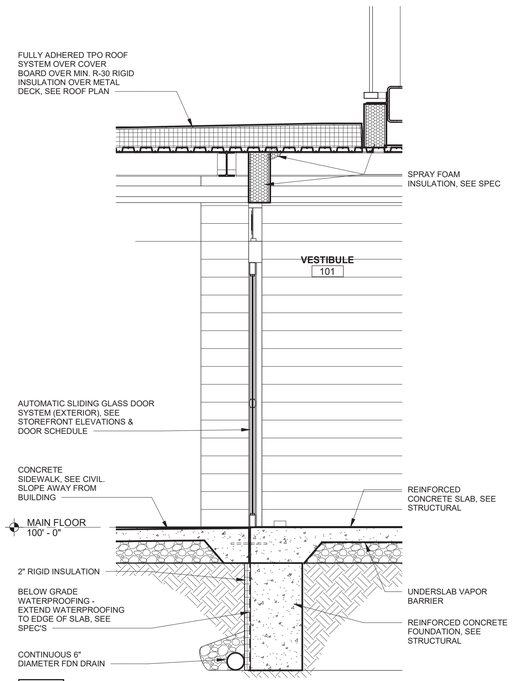
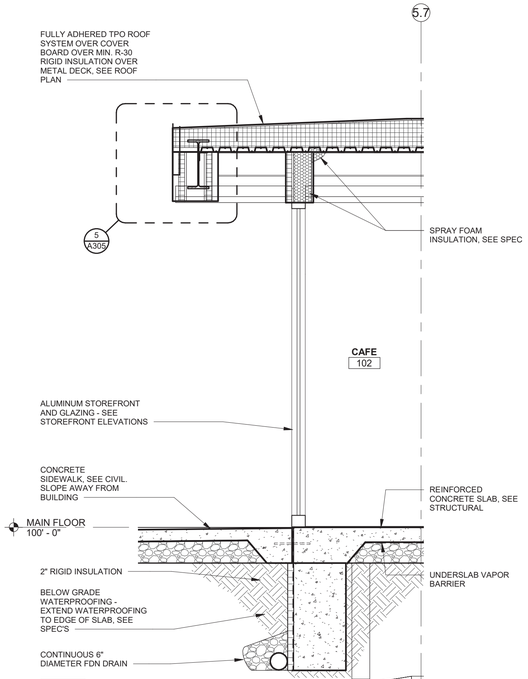


3 WALL SECTION
1/2" = 1'-0"



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



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

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MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
3-13-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A302
WALL SECTIONS

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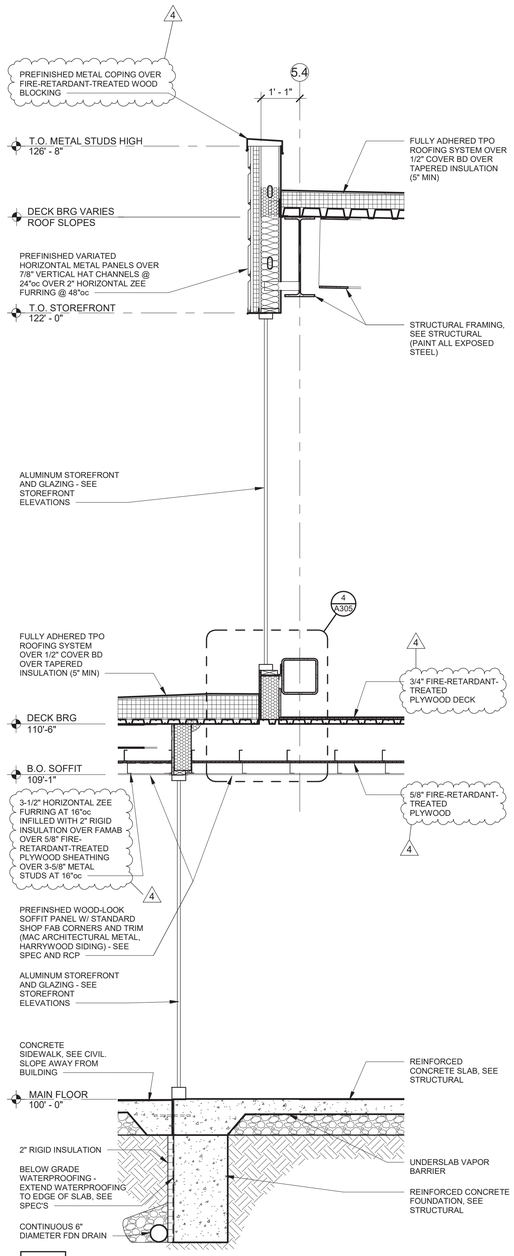
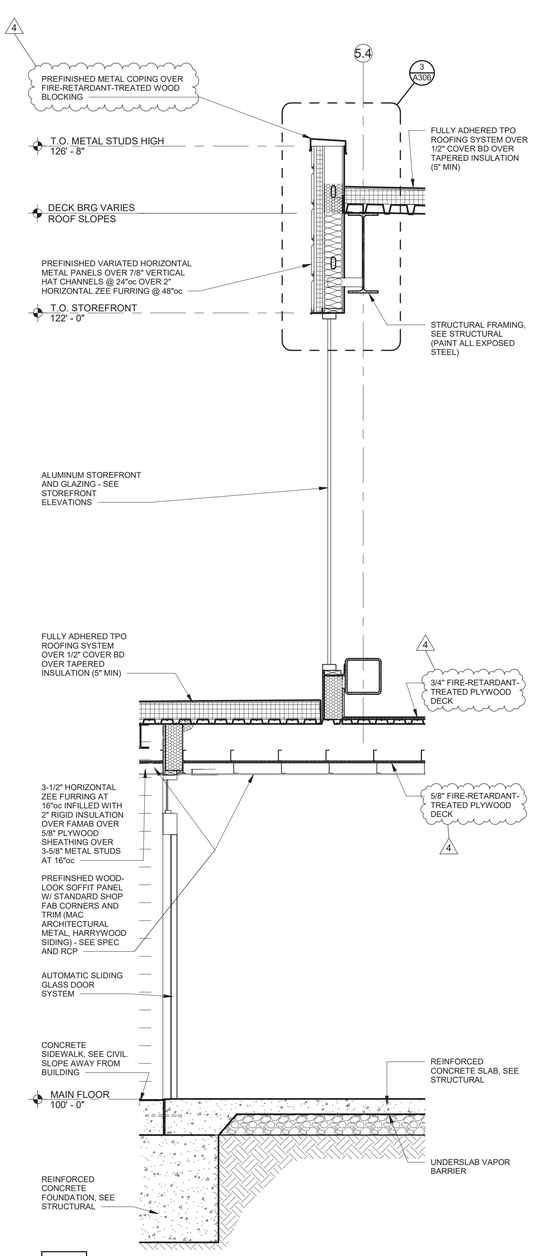
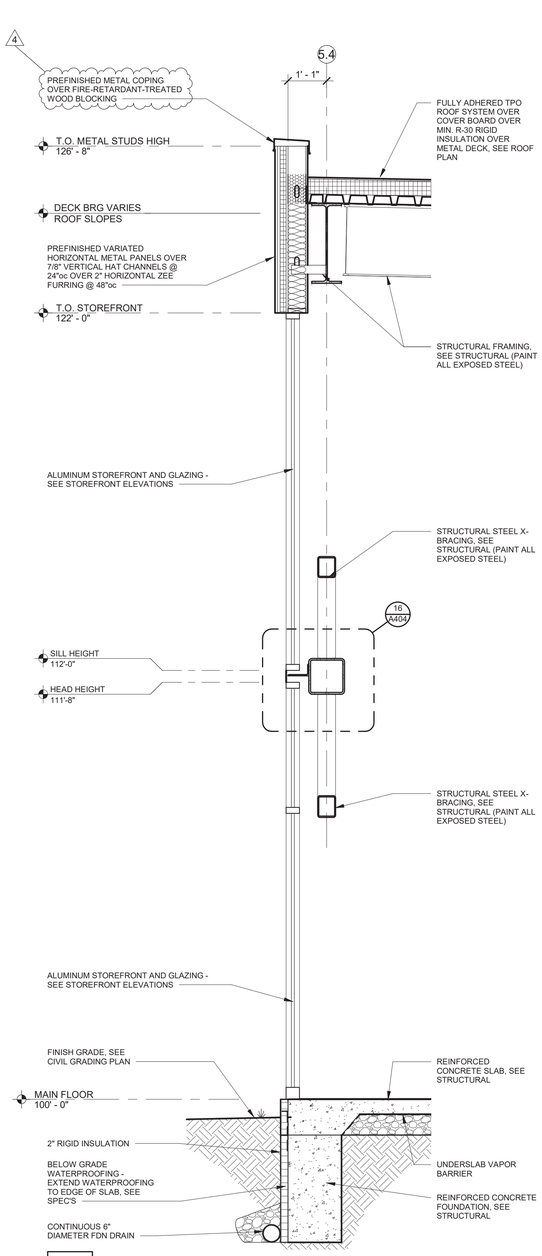


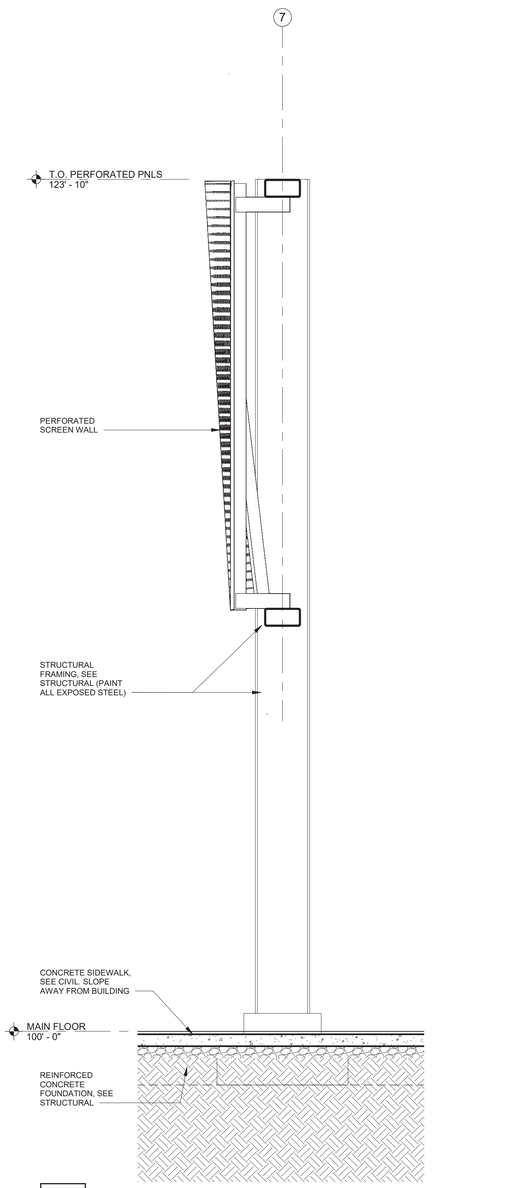
4 WALL SECTION
1/2" = 1'-0"



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



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



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

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Revision No.	Description	Date
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WP10	12-23-2019	JDL

Drawing No.
A303
WALL SECTIONS

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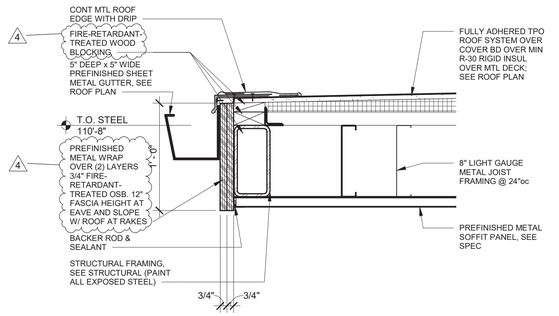
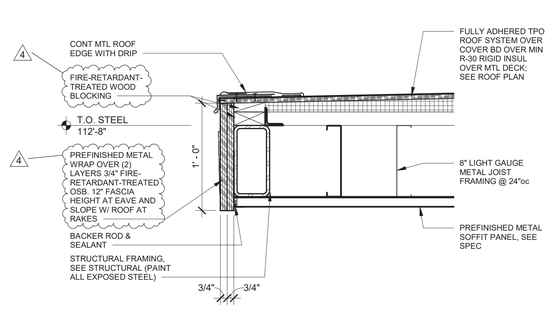
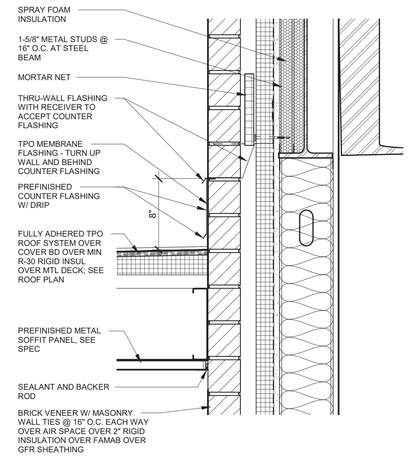


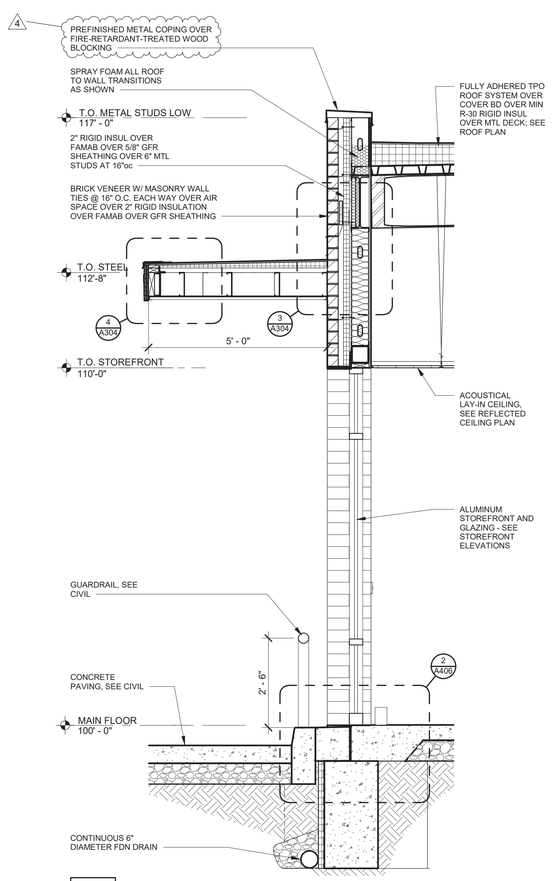
5 DETAIL
1 1/2" = 1'-0"



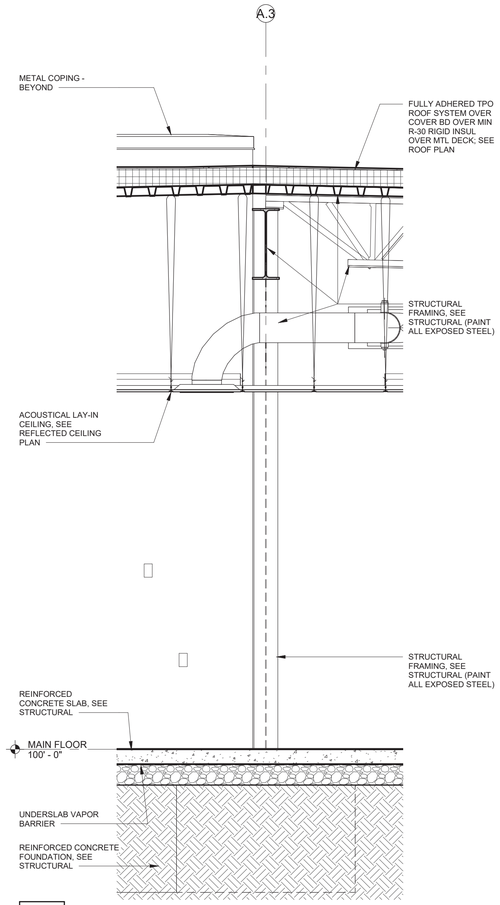
4 DETAIL
1 1/2" = 1'-0"



3 DETAIL
1 1/2" = 1'-0"



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



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

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3-13-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A304
WALL SECTIONS

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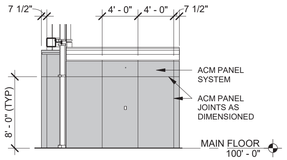
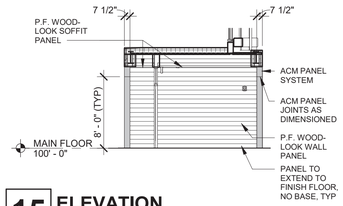
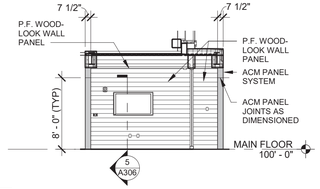


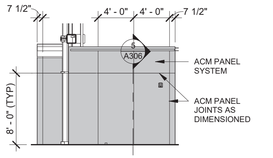
16 ELEVATION
1/8" = 1'-0" **@ WEST WALL CAFE OUTSIDE**



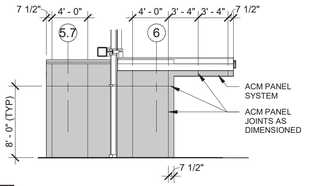
15 ELEVATION
1/8" = 1'-0"



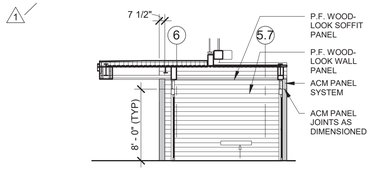
14 ELEVATION
1/8" = 1'-0" **@ EAST WALL CAFE INSIDE**



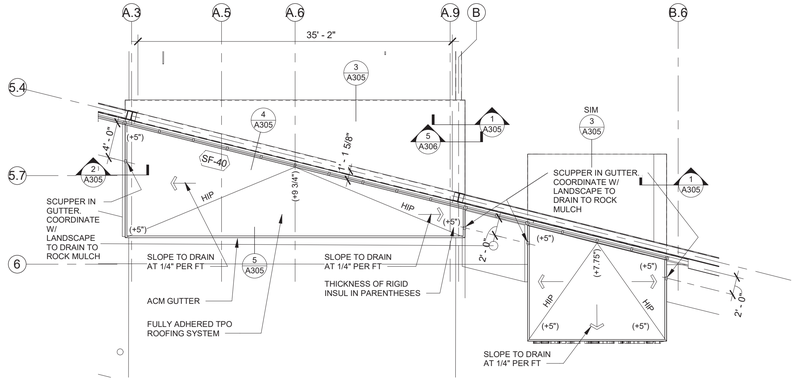
13 ELEVATION
1/8" = 1'-0" **@ EAST WALL CAFE OUTSIDE**



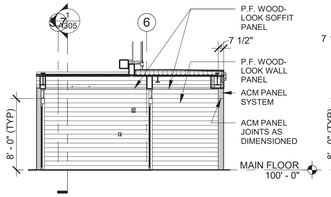
12 ELEVATION
1/8" = 1'-0" **@ WEST WALL VEST OUTSIDE**



11 ELEVATION
1/8" = 1'-0" **@ WEST WALL VEST INSIDE**



7 ROOF PLAN
1/8" = 1'-0" **@ VESTIBULE & CAFETERIA**



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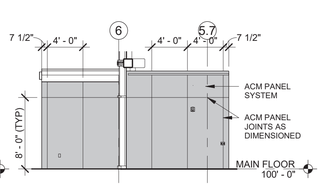
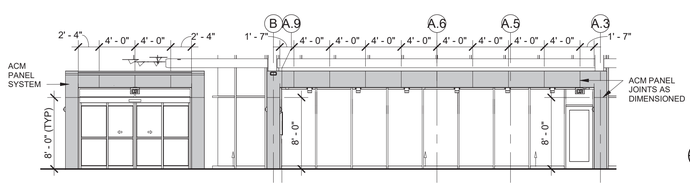
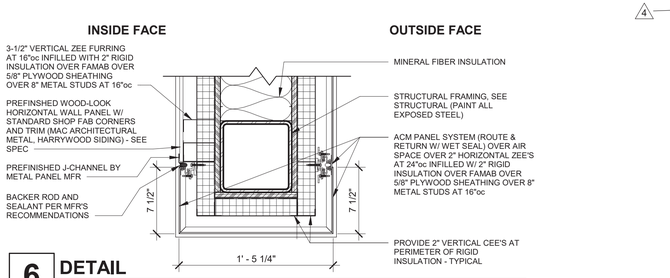
1/8" = 1'-0" **@ EAST WALL VEST INSIDE**



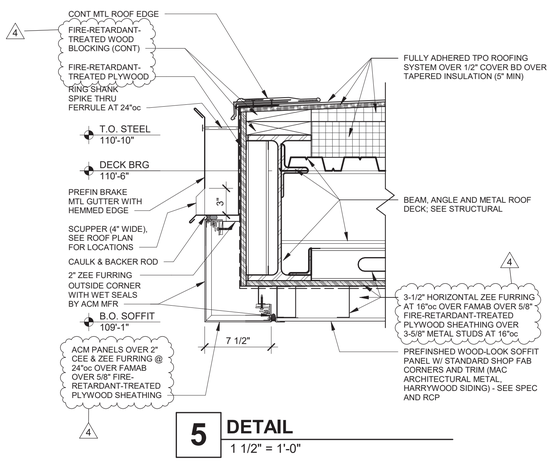
9 ELEVATION
1/8" = 1'-0" **@ EAST WALL VEST OUTSIDE**



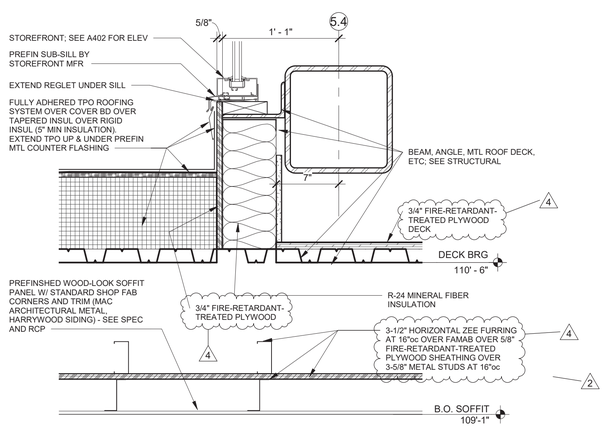
8 ELEVATION
1/8" = 1'-0" **LOOKING SOUTH AT CAFE 102 & VEST 101**



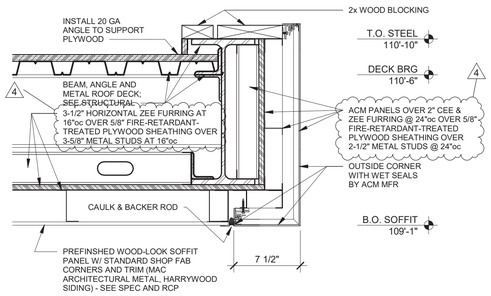
6 DETAIL
1 1/2" = 1'-0"



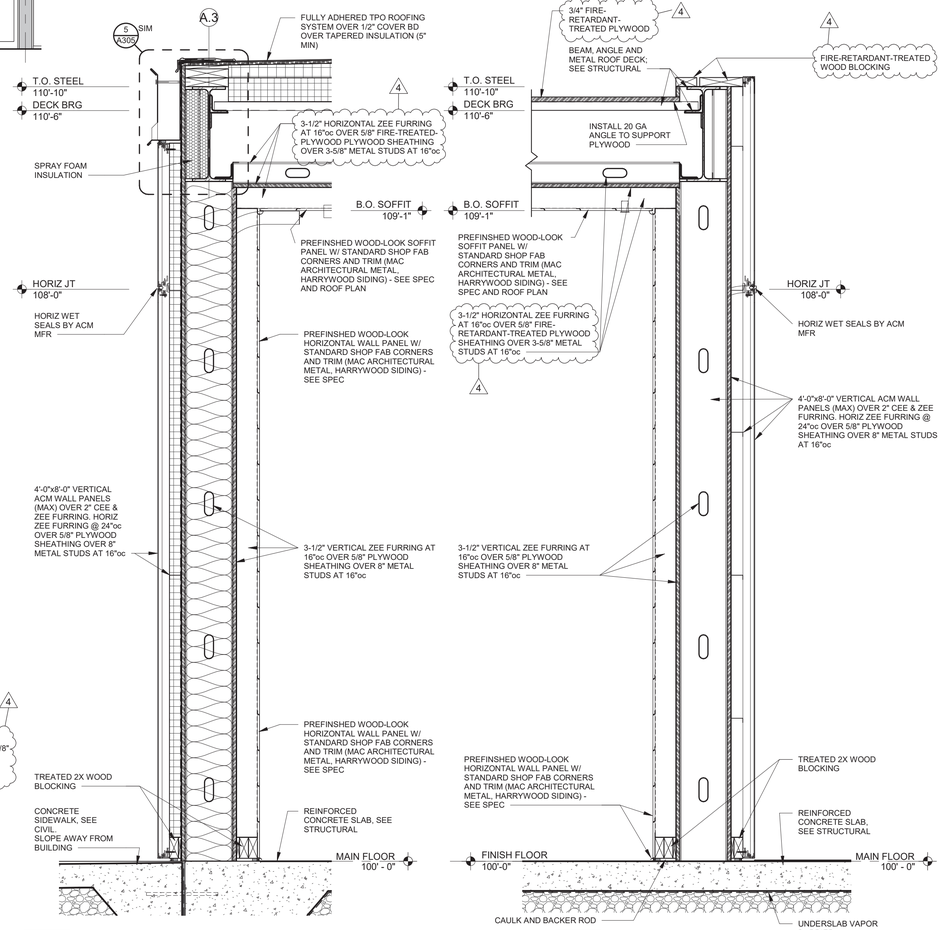
5 DETAIL
1 1/2" = 1'-0"



4 DETAIL
1 1/2" = 1'-0"



3 DETAIL
1 1/2" = 1'-0"



2 WALL SECTION
1" = 1'-0" **ACM PANELS - OUTDOORS**

1 WALL SECTION
1" = 1'-0" **ACM PANELS - INDOORS**

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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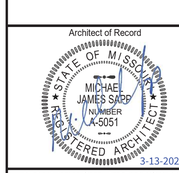
Architect of Record



3-13-2020
Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
2	ADDENDUM 02	01/20/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A305
WALL SECTIONS

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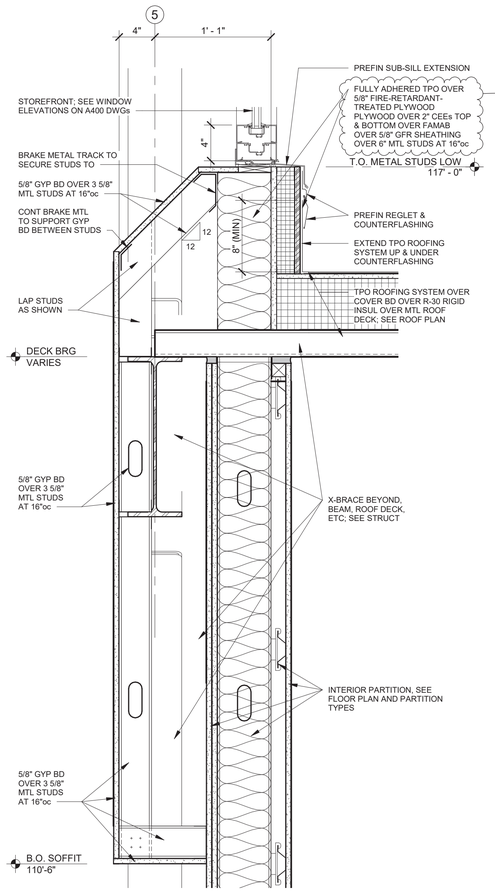
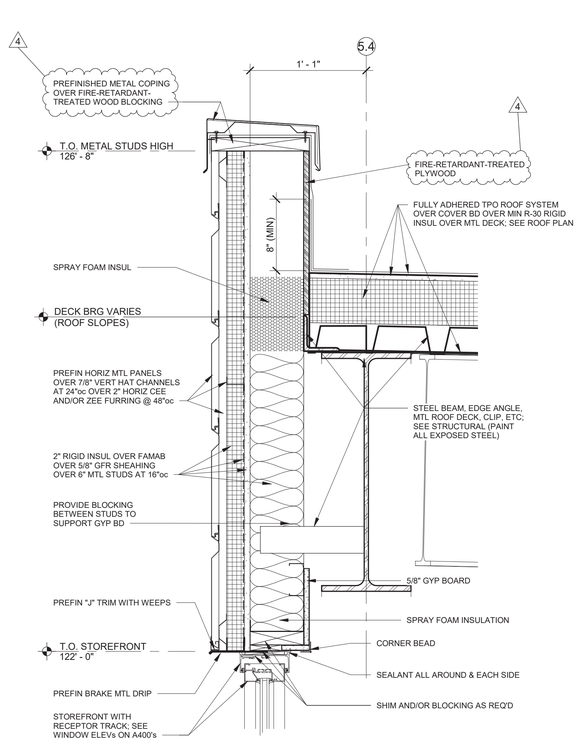
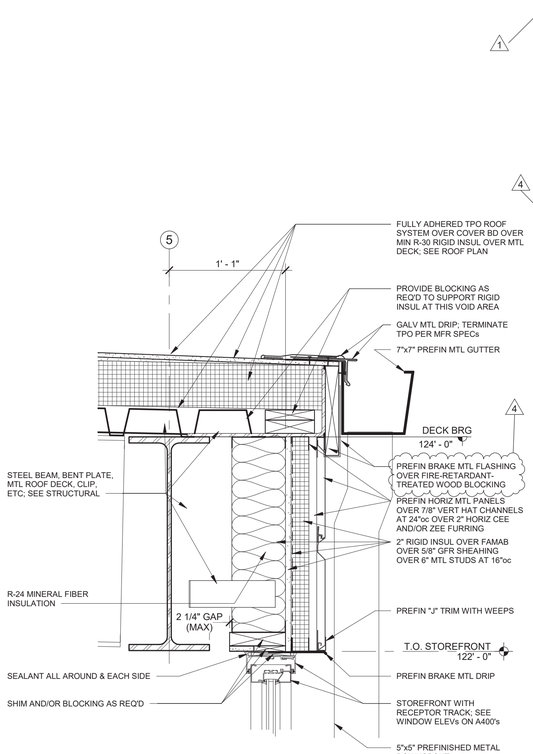


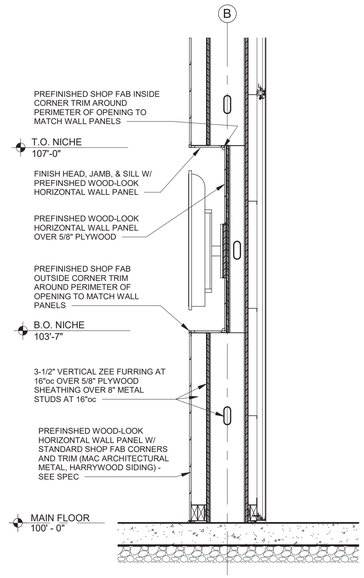
4 DETAIL
1 1/2" = 1'-0" **OF BULKHEAD @ LOW ROOF**



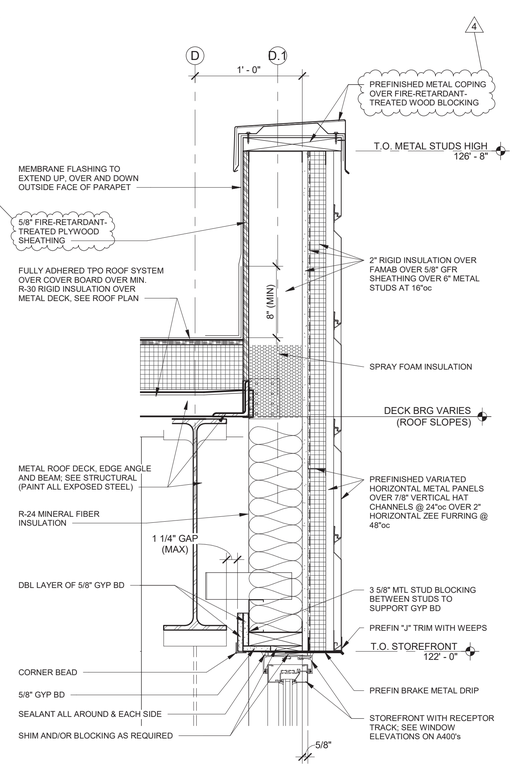
3 DETAIL
1 1/2" = 1'-0" **OF PARAPET AT GRID 5.4**



2 DETAIL
1 1/2" = 1'-0" **OF GUTTER @ CLERESTORY**



5 DETAIL
3/4" = 1'-0" **@ T.V. NICHE**



1 DETAIL
1 1/2" = 1'-0" **PARAPET @ CLERESTORY**

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Architect of Record

STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
3-13-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A306
DETAILS

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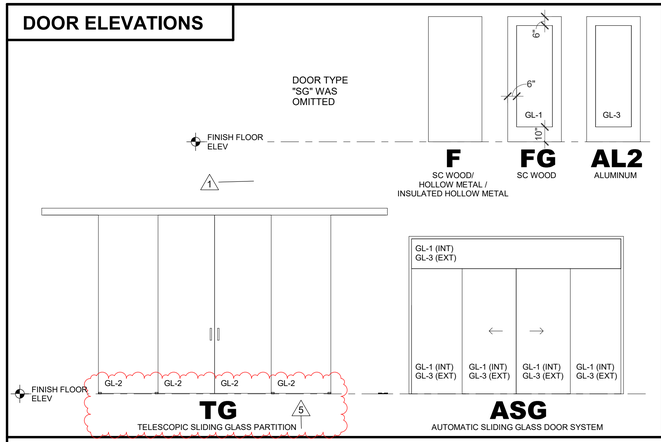
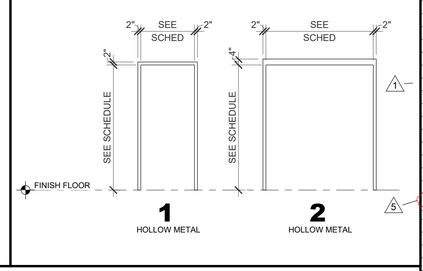
DOOR ELEVATIONS



DOOR FRAME ELEVATIONS



DOOR HARDWARE SETS

SET 01
COMPLETE BY SLIDING DOOR MANUFACTURER
1 CYLINDER

SET 02
3 H.W. HINGES
1 LOCKSET (CLASSROOM FUNCTION)
1 ELECTRIC STRIKE (CONNECT TO CARD READER)
1 CLOSER (WITH STOP)
1 WALL STOP
1 CONTINUOUS ACOUSTICAL SEALS
1 AUTOMATIC DOOR BOTTOM

SET 03
3 H.W. HINGES
1 EXIT DEVICE (RIM TYPE, CLASSROOM FUNCTION)
1 CLOSER (WITH STOP AND HOLD OPEN)
1 CONTINUOUS ACOUSTICAL SEALS
1 AUTOMATIC DOOR BOTTOM

SET 04
3 H.W. HINGES
1 LOCKSET (CLASSROOM FUNCTION)
1 CLOSER (WITH HOLD OPEN)
1 WALL STOP
1 SILENCERS

SET 05
3 H.W. HINGES
1 PUSH/PULL
1 CLOSER
1 SILENCERS
1 WALL STOP
1 LOW PROFILE SWEEP

SET 06
6 H.W. HINGES
2 EXIT DEVICE (CONCEALED RODS,CLASSROOM FUNCTION)
2 CLOSERS (WITH HOLD OPEN 1 @ 180)
1 WALL STOP
1 CONTINUOUS ACOUSTICAL SEALS
2 AUTOMATIC DOOR BOTTOMS
1 SPLIT ASTRAGAL

SET 07
3 H.W. HINGES
1 LOCKSET (PRIVACY FUNCTION)
1 WALL STOP
1 CONTINUOUS ACOUSTICAL SEALS
1 AUTOMATIC DOOR BOTTOM

SET 08
3 H.W. HINGES
1 LOCKSET (CLASSROOM FUNCTION)
1 ELECTRIC STRIKE (CONNECT TO CARD READER)
1 THUMB TURN OCCUPANCY INDICATOR
1 CLOSER (WITH STOP)
1 WALL STOP
1 CONTINUOUS ACOUSTICAL SEALS
1 AUTOMATIC DOOR BOTTOM

SET 09
3 H.W. HINGES
1 LATCHSET (PASSAGE)
1 SILENCERS
1 WALL STOP

SET 10
3 H.W. HINGES
1 LOCKSET (OFFICE FUNCTION)
1 WALL STOP
1 CONTINUOUS ACOUSTICAL SEALS
1 AUTOMATIC DOOR BOTTOM

SET 11
2 PIVOTS (BY ALUM DOOR/FRAME MFGR)
1 EXIT DEVICE (KEYED DOGGING)
1 CLOSER
1 ELECTRIC STRIKE (CONNECT TO CARD READER OUTSIDE)
1 CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFGR)
1 EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFGR)
1 THRESHOLD (BY ALUM DOOR/FRAME MFGR)

SET 12
2 PIVOTS (BY ALUM DOOR/FRAME MFGR)
1 EXIT DEVICE (RIM TYPE, CLASSROOM FUNCTION_
1 CLOSER
1 ELECTRIC STRIKE (CONNECT TO CARD READER OUTSIDE)
1 CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFGR)
1 EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFGR)
1 THRESHOLD (BY ALUM DOOR/FRAME MFGR)

SET 13
2 PIVOTS (BY ALUM DOOR/FRAME MFGR)
1 EXIT DEVICE (DELAYED OPEN WITH ALARM)
1 CLOSER
1 CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFGR)
1 EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFGR)
1 WEATHERSTRIPPING
1 THRESHOLD (BY ALUM DOOR/FRAME MFGR)

SET 14
2 PIVOTS (BY ALUM DOOR/FRAME MFGR)
1 EXIT DEVICE (EXTERIOR LEVER CLASSROOM FUNCTION)
1 CLOSER
1 CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFGR)
1 EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFGR)
1 WEATHERSTRIPPING
1 THRESHOLD (BY ALUM DOOR/FRAME MFGR)

SET 15
6 H.W. HINGES
2 EXIT DEVICE (VERTICAL RODS)
2 CLOSERS (WITH STOP AND HOLD OPEN)
1 SILENCERS

SET 16
6 H.W. HINGES
1 LOCKSET (CLASSROOM FUNCTION)
1 CLOSER (WITH HOLD OPEN AND STOP)
1 DUMMY TRIM
1 TOP FLUSH BOLT
1 OVERHEAD STOP
2 SILENCERS

SET 17
3 H.W. HINGES
3 EXIT DEVICE (RIM TYPE)
1 ELECTRIC STRIKE (CONNECTED TO CARD READER)
1 CLOSER (WITH STOP AND HOLD OPEN)
1 EXTERIOR BOTTOM SWEEP
1 CONTINUOUS WEATHERSTRIPPING
1 CONTINUOUS TOP WEATHERSTRIP
1 THRESHOLD

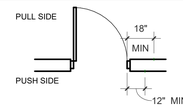
DOOR SCHEDULE

DOOR NO.	DOOR CONFIG	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR ELEV	DOOR MATL	FRAME ELEV	FRAME MATL	FRAME DETAIL HEAD	FRAME DETAIL LEFT JAMB	FRAME DETAIL RIGHT JAMB	FRAME DETAIL SILL	HDWR SET	COMMENTS
101A	SLIDER	12' - 8"	8' - 0"	1/4"	ASG	AL/F3	SF-1	AL/F3	3/A403	2/A403	2/A403	1/A403	01	AUTO SLIDING GLASS DOOR - EXTERIOR
101B	SLIDER	12' - 8"	8' - 0"	1/4"	ASG	AL/F3	SF-2	AL/F3	3/A403	2/A403	2/A403	1/A403	BY MFR	AUTO SLIDING GLASS DOOR - INTERIOR
102A	SINGLE	3' - 0"	7' - 0"	1 3/4"	AL2	AL/F3	SF-31	AL/F3	11/A405	10/A405	11/A405	9/A405	14	
102B	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-39	AL/F3	11/A405	12/A405	11/A405	9/A405	12	
103	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
104	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
105	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
106	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	05	
107	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	05	
108		9' -6"	9' –6"			AL		AL	2/A651	7/A406	6/A406	NA	01	ROLLING SECURITY GRILLE
109A	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-4	AL/F3	13/A405	6/A403	13/A405	NA	10	
109B	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	10	MIN 41 STC FOR DOOR ASSEMBLY
110	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	10	
111	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
112	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	10	
113	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-6	AL/F3	13/A405	13/A405	12/A405	NA	02	
114	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
115	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07	
116	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07	
117	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	IHM/F1	2	HM/F1	14/A405	15/A405	15/A405	9/A405	17	
118	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
119	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	09	
121A	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-24	AL/F3	11/A405	8/A405	11/A405	9/A405	14	
121B	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-26	AL/F3	11/A405	11/A405	11/A405	9/A405	13	
122A	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-7	AL/F3	13/A405	13/A405	9/A403	NA	03	
122B	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-7	AL/F3	13/A405	9/A403	13/A405	NA	03	
123	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
124	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07	
125	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07	
126	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	08	
127	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-8	AL/F3	11/A405	13/A403	14/A403	4/A403	02	
128	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-9	AL/F3	11/A405	15/A403	14/A403	4/A403	02	
129	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-10	AL/F3	11/A405	15/A403	14/A403	4/A403	02	
130	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-11	AL/F3	13/A405	14/A403	15/A403	NA	02	
131	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-12	AL/F3	13/A405	15/A403	14/A403	NA	02	
132A	PAIR	6' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-16	AL/F3	13/A405	1/A404	13/A405	NA	06	
132B	PAIR	6' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-15	AL/F3	13/A405	13/A405	1/A404	NA	06	
132C	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-13	AL/F3	13/A405	12/A403	13/A405	NA	03	
132D	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-18	AL/F3	13/A405	13/A405	12/A403	NA	03	
133	PAIR	6' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	16	
134	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
135A	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
135B	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
135C	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04	
136	PAIR	6' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	16	
137A	PAIR	12' - 4"	10' - 0"	1/2"	TG	AL/F3	TG	AL/F3	04/A651	NA	NA	NA	01	TELESCOPIC SLIDING GLASS PARTITION 5
137B	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-29	AL/F3	11/A405	11/A405	11/A405	9/A405	03	
137C	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-19	AL/F3	13/A405	13/A405	12/A403	NA	11	
142	PAIR	6' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	15	EXIT DEVICES ON ELECTRICAL ROOM SIDE

GENERAL NOTES

ALL GLAZING FOR EXTERIOR FRAMES & DOORS SHALL BE INSULATED.

REQUIRED DOOR CLEARANCES



DOOR AND FRAME FINISH LEGEND

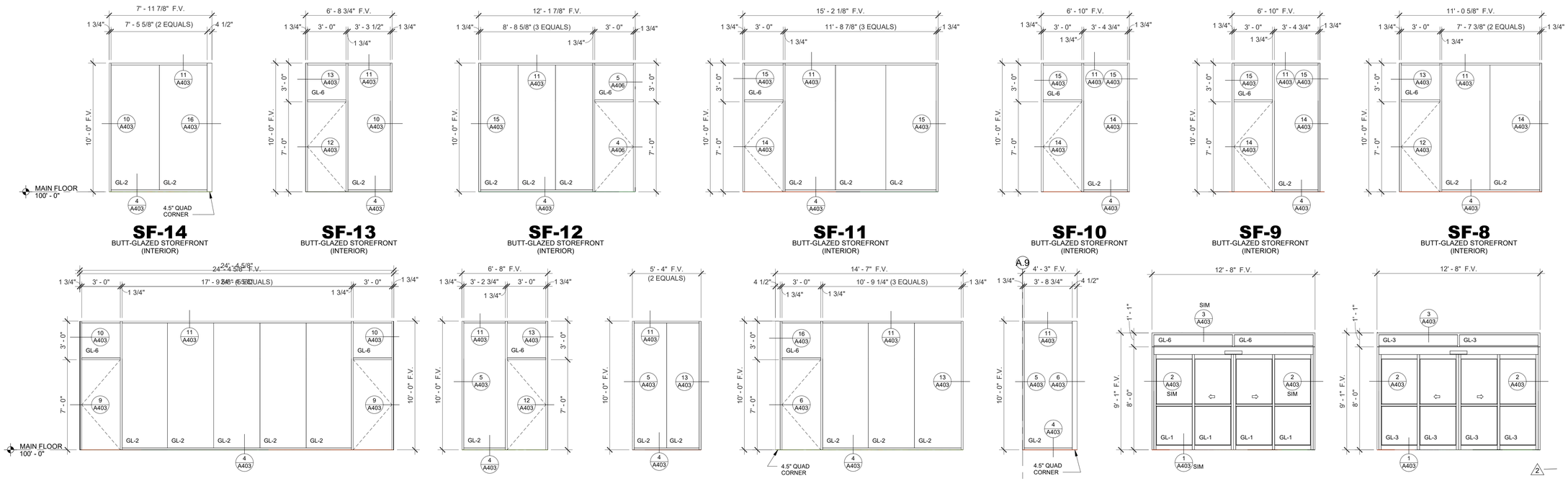
AL = ALUM DOOR OR FRAME
FRP = FIBERGLASS REINFORCED POLYESTER
HM = HOLLOW METAL DOOR OR FRAME
IHM = INSUL HOLLOW MTL DOOR OR FRAME
WD = SOLID CORE WOOD DOOR OR FRAME

F1 = PAINTED
F2 = STAINED
F3 = PREFINISHED - CLEAN & PROTECT

GLAZING SCHEDULE

GL-1 = 1/4" SAFETY GLASS (CLEAR)
GL-2 = 1/2" SAFETY GLASS (CLEAR)
GL-3 = 1" INSULATED SAFETY GLASS (TINTED)
GL-4 = 1" INSULATED GLASS (TINTED)
GL-5 = 1" INSULATED SAFETY GLASS (SPANDREL)
GL-6 = 1/4" CLEAR FLOAT GLASS

STOREFRONT ELEVATIONS



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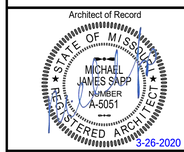

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
2	ADDENDUM 02	01/20/20
5	ASI 03	Date 5

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.
A400
DOOR SCHEDULE & ELEVATIONS

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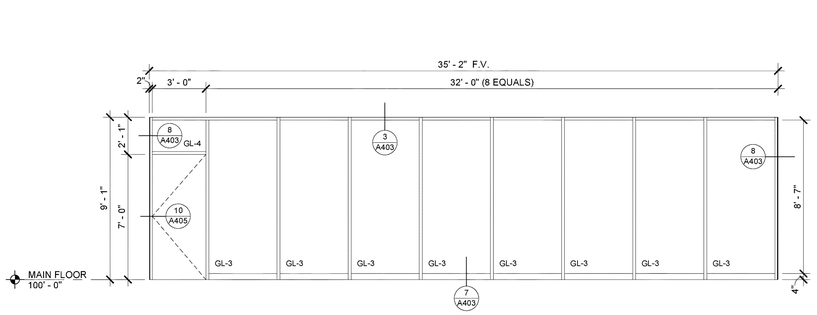
STOREFRONT ELEVATIONS



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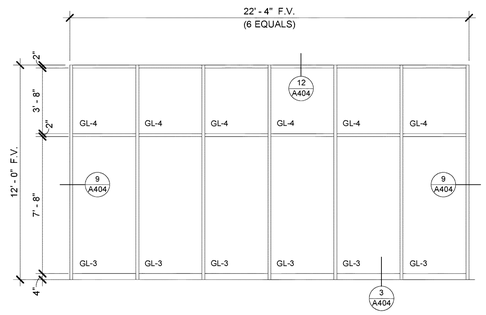
EXTERIOR STOREFRONT



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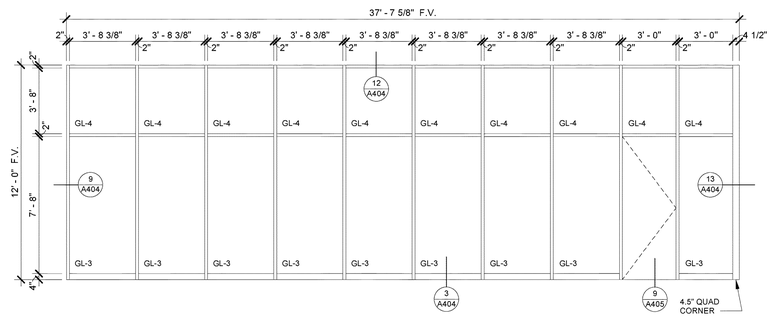

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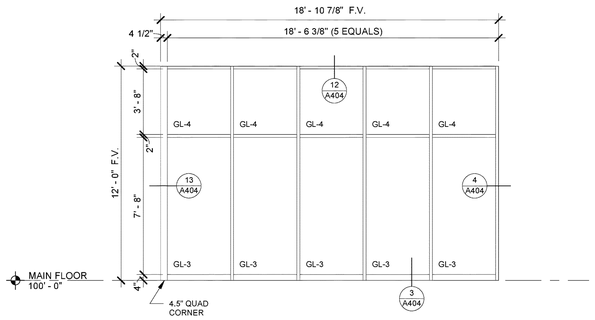

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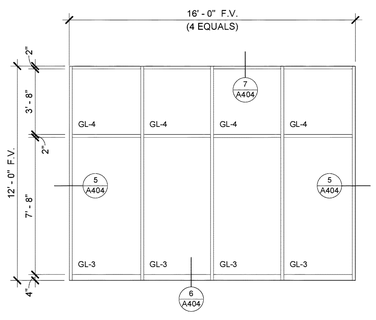
EXTERIOR STOREFRONT



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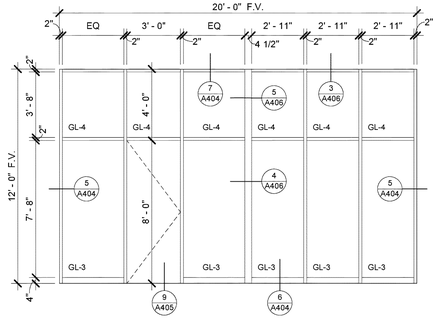

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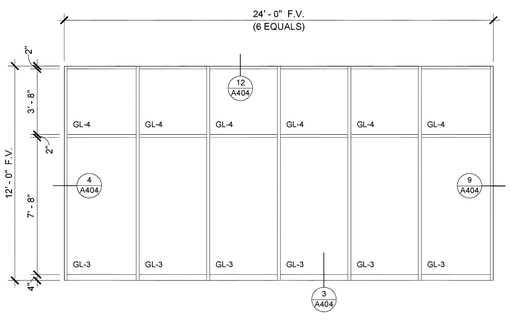

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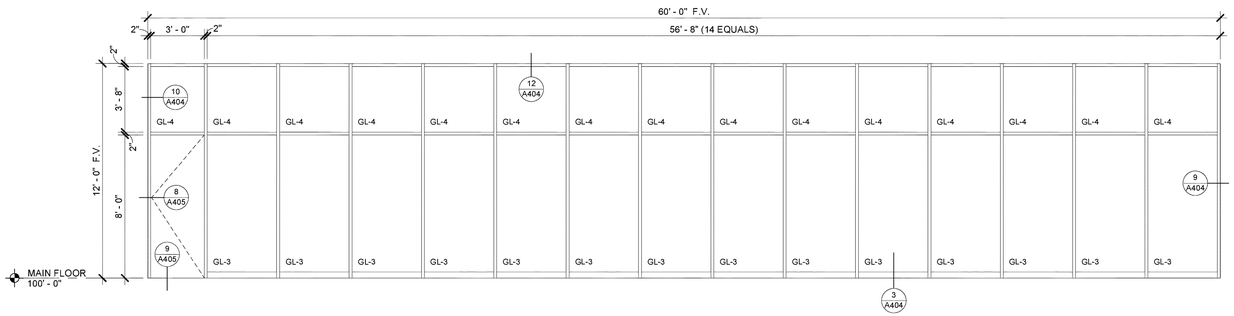

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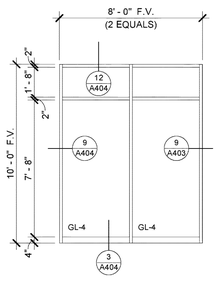

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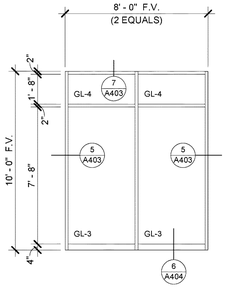

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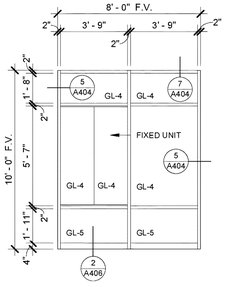

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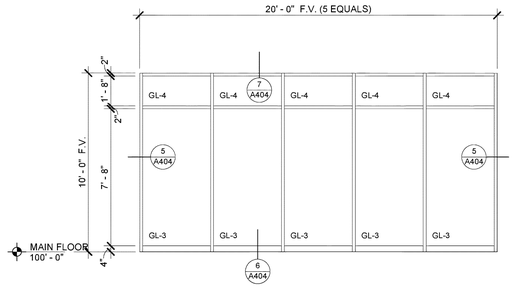
EXTERIOR STOREFRONT



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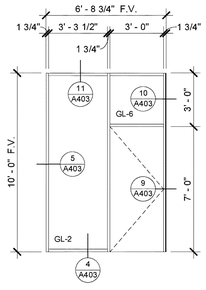

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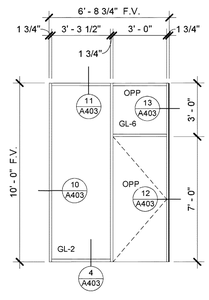
BUTT-GLAZED STOREFRONT
(INTERIOR)



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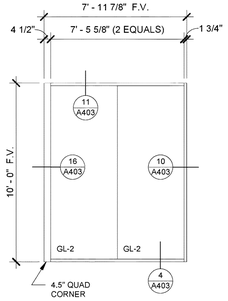
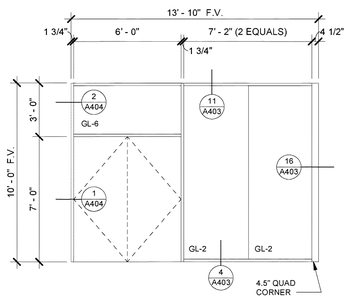
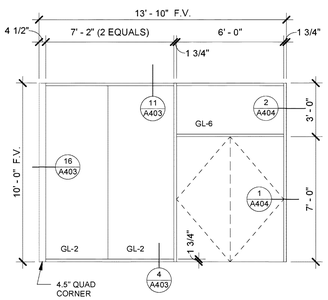
BUTT-GLAZED STOREFRONT
(INTERIOR)



SF-17
BUTT-GLAZED STOREFRONT
(INTERIOR)



SF-16
BUTT-GLAZED STOREFRONT
(INTERIOR)



SF-15
BUTT-GLAZED STOREFRONT
(INTERIOR)

2

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Architect of Record

STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
1-20-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
2	ADDENDUM 02	01/20/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A401
STOREFRONT ELEVATIONS

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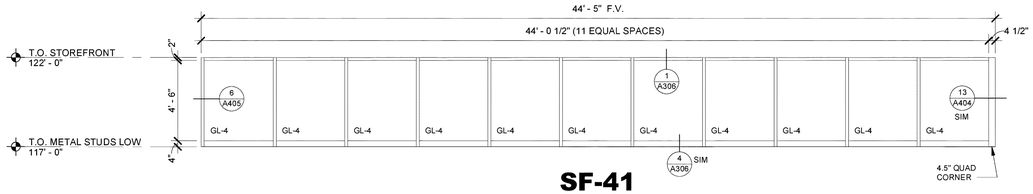
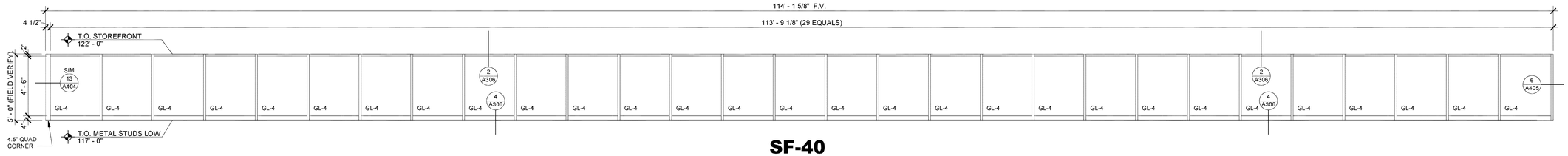
STOREFRONT ELEVATIONS



SF-41
EXTERIOR STOREFRONT



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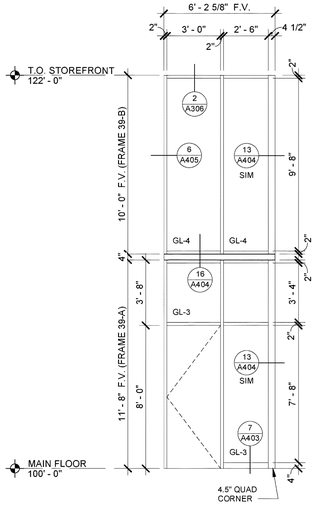

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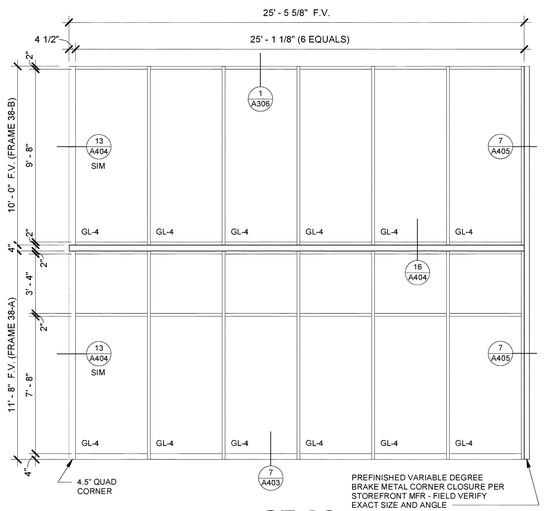

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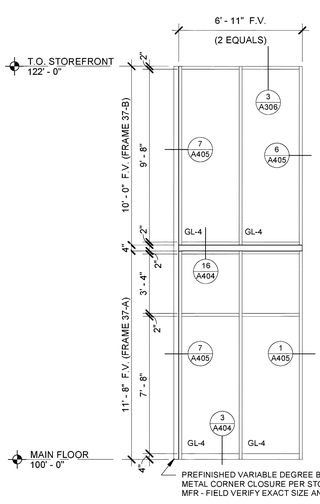

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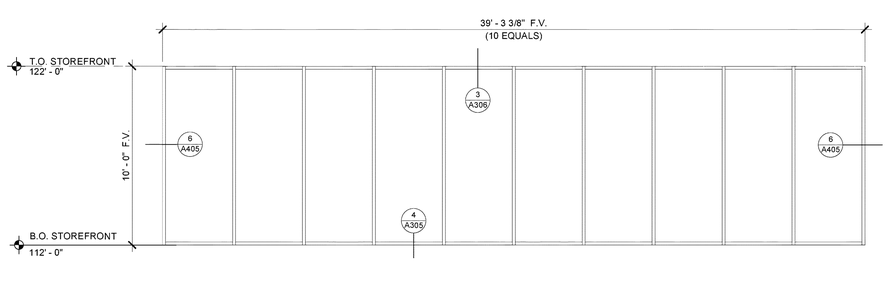

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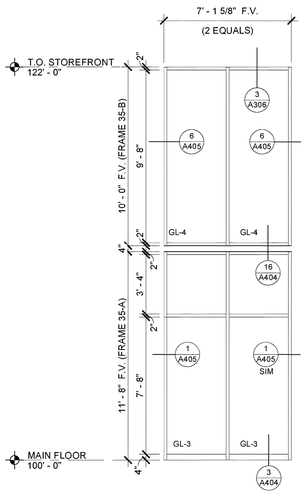

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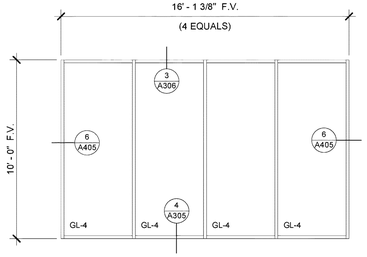

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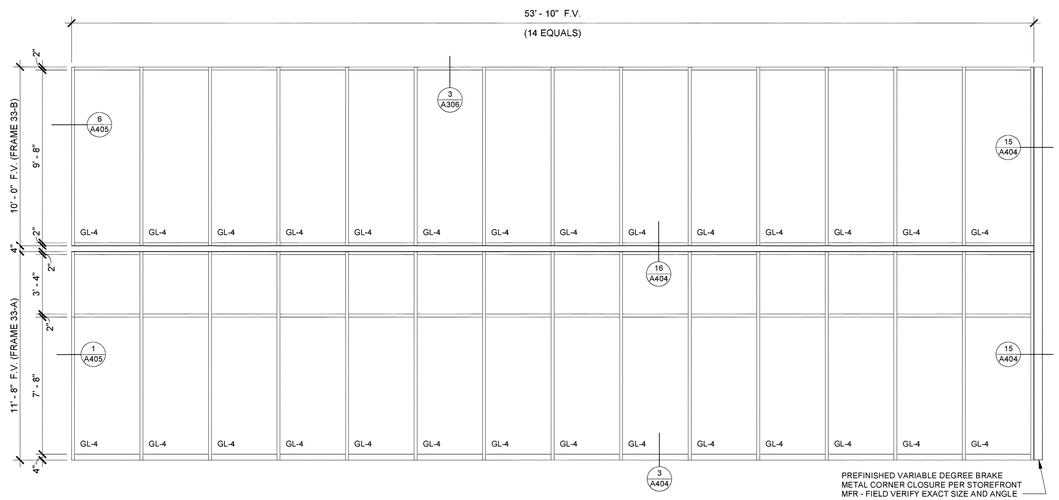

SF-33
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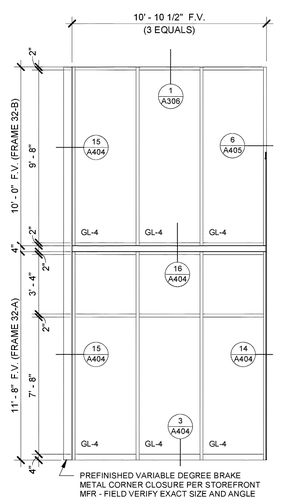

SF-32
EXTERIOR STOREFRONT

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Revision No.	Description	Date

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Drawing No.
A402
STOREFRONT ELEVATIONS

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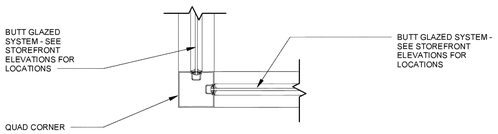
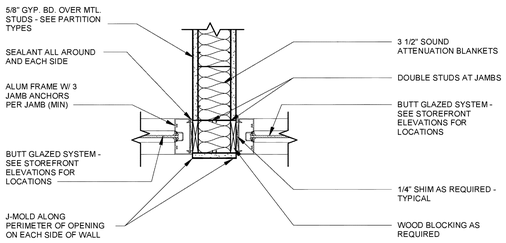


16 STOREFRONT JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



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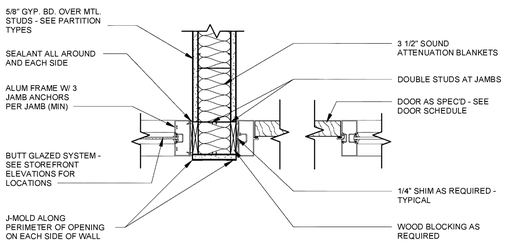
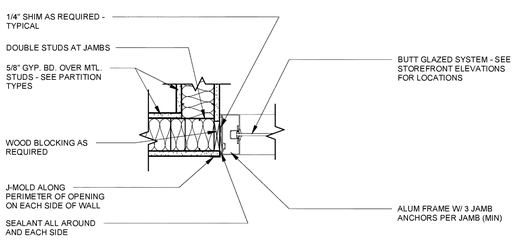


14 STOREFRONT/DOOR JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



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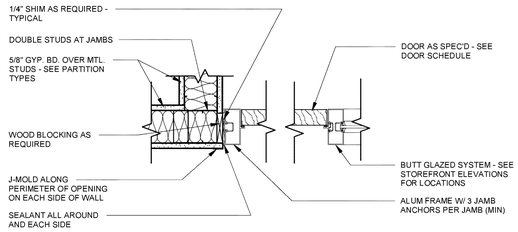

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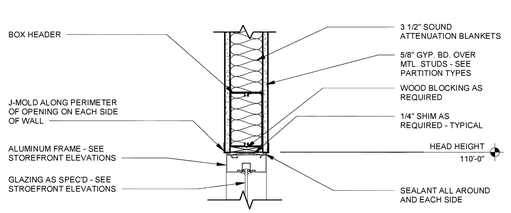
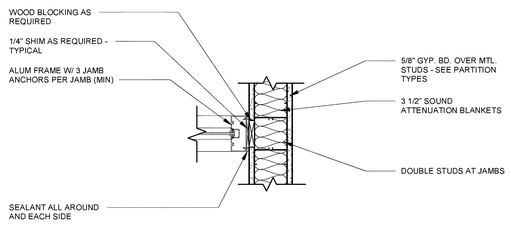


11 STOREFRONT HEAD
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



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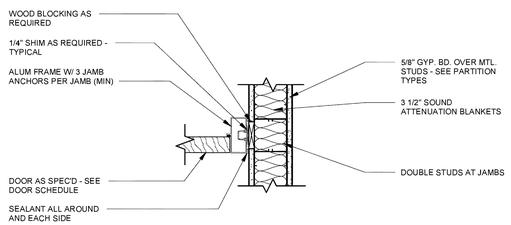
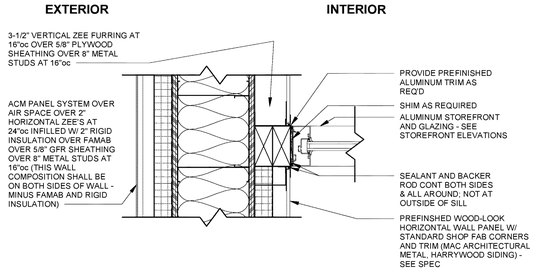
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



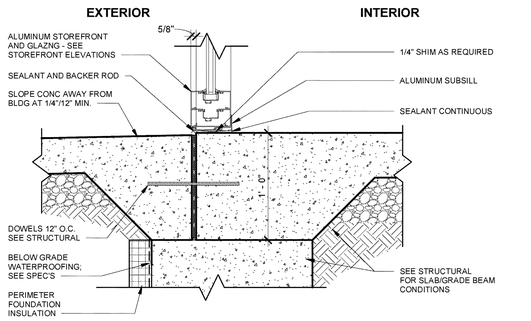
9 DOOR JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**

EXTERIOR **INTERIOR**

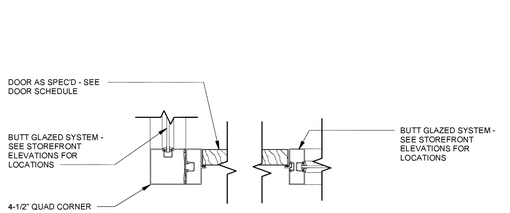


8 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**

EXTERIOR **INTERIOR**



7 STOREFRONT SILL
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



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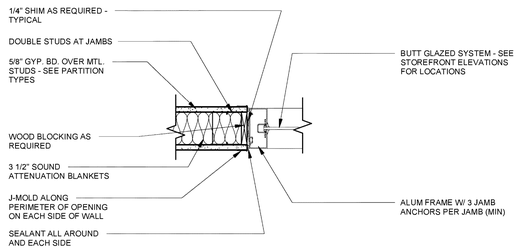
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



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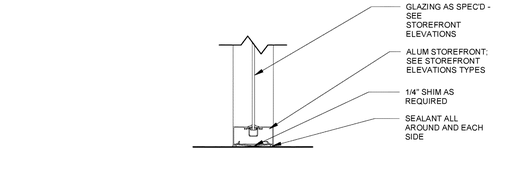
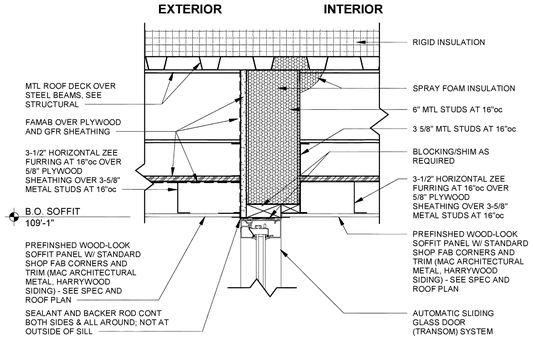


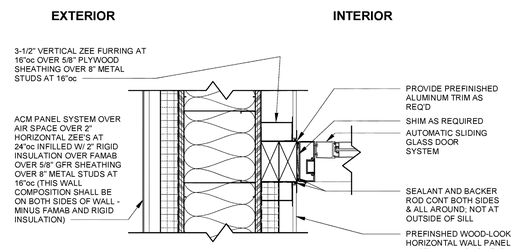
4 STOREFRONT SILL
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**

EXTERIOR **INTERIOR**



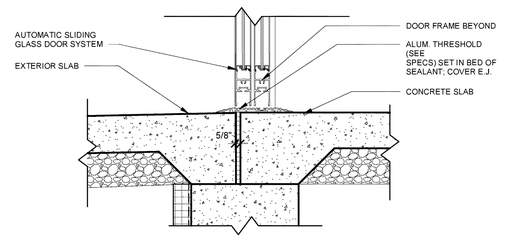
3 STOREFRONT HEAD
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**

EXTERIOR **INTERIOR**



2 DOOR JAMB
1 1/2" = 1'-0" **AUTOMATIC SLIDING GLASS DOOR SYSTEM**

EXTERIOR **INTERIOR**



1 DOOR SILL
1 1/2" = 1'-0" **AUTOMATIC SLIDING GLASS DOOR SYSTEM**

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Architect of Record

STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A403

HEAD, JAMB, AND SILL DETAILS

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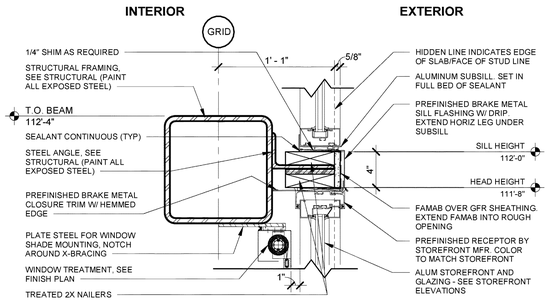
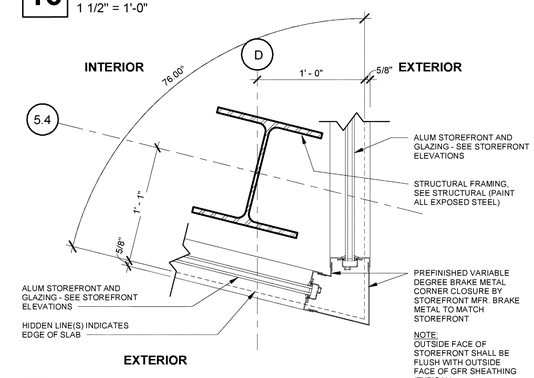
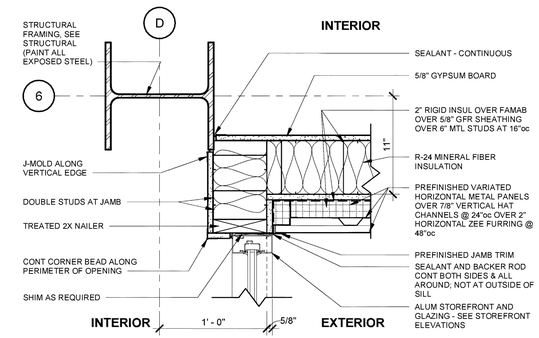


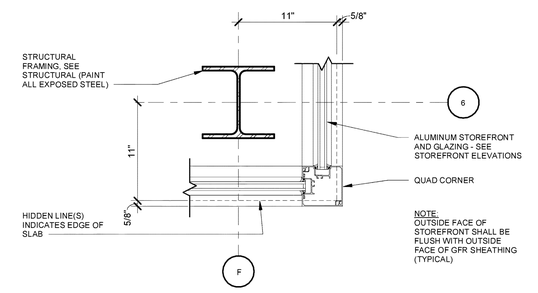
16 STOREFRONT HEAD/SILL
1 1/2" = 1'-0"



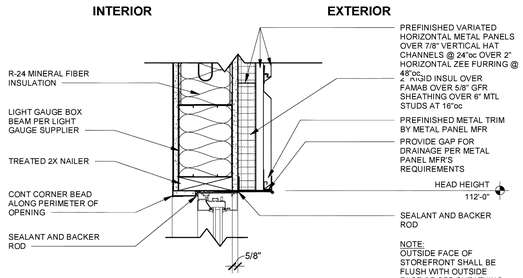
15 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



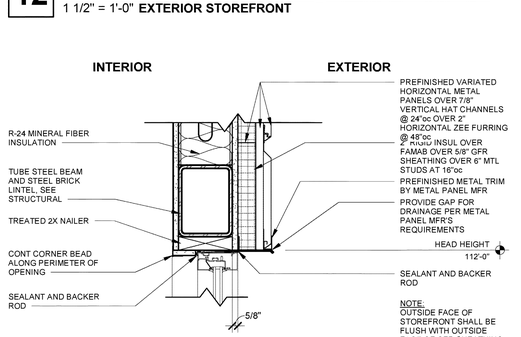
14 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



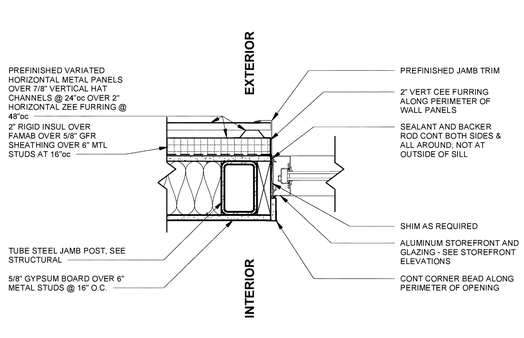
13 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



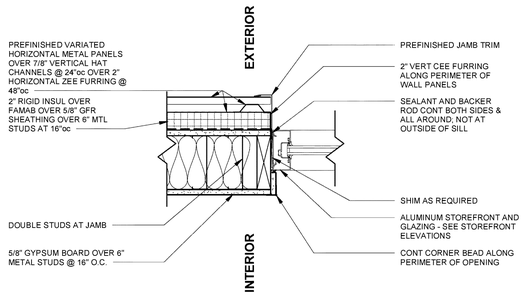
12 STOREFRONT HEAD
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



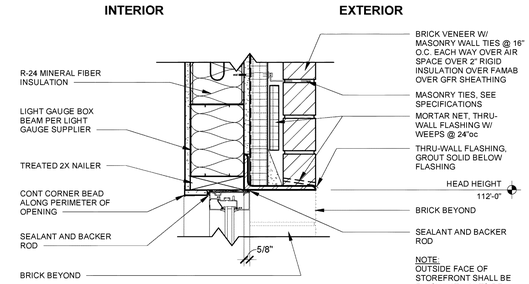
11 STOREFRONT HEAD
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



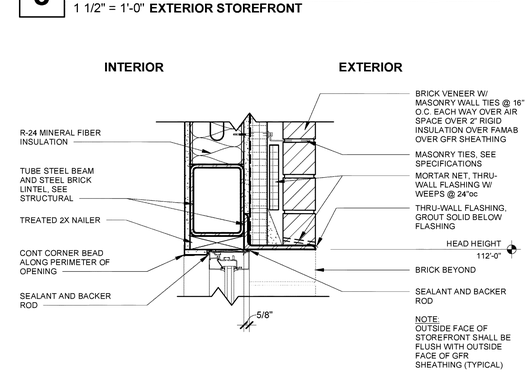
10 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



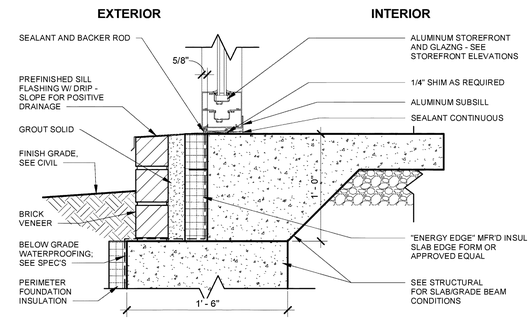
9 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



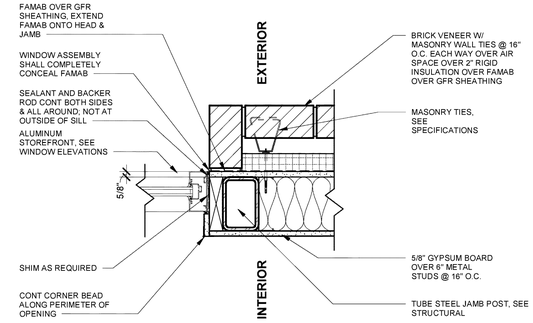
8 STOREFRONT HEAD
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



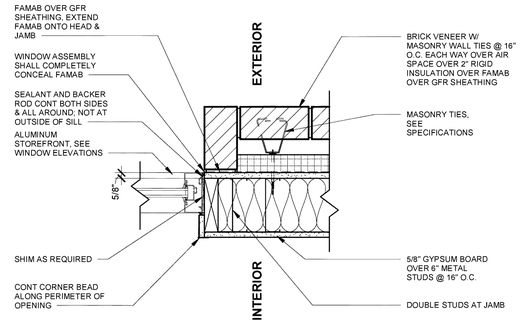
7 STOREFRONT HEAD
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



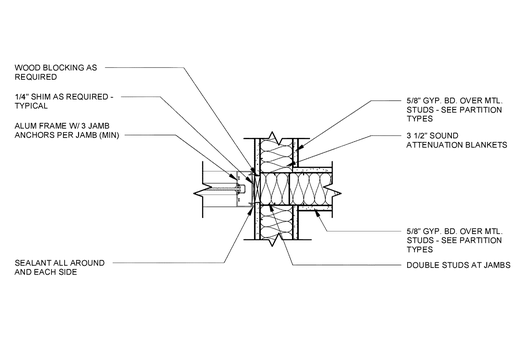
6 STOREFRONT SILL
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



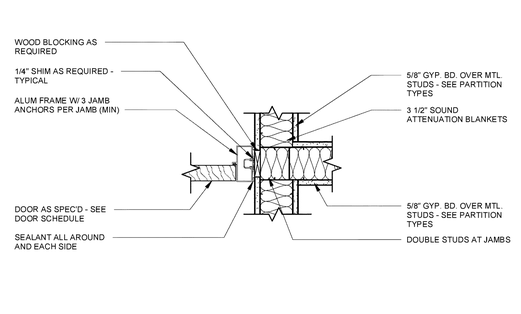
5 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



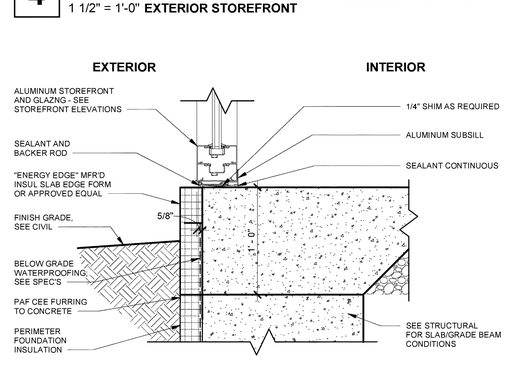
4 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



2 STOREFRONT JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



1 STOREFRONT/DOOR JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



3 STOREFRONT SILL
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**

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STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A404

HEAD, JAMB, AND SILL DETAILS

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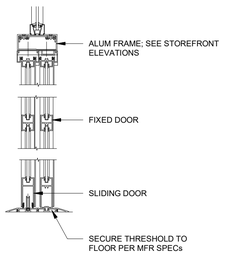
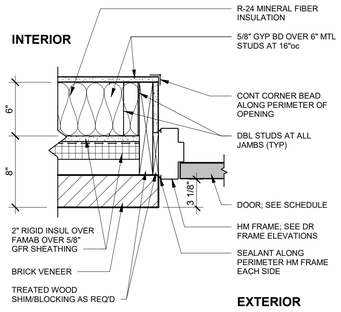


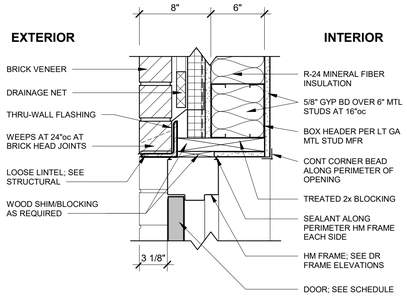
16 HEAD/THRESHOLD @ SLIDING DOORS

1 1/2" = 1'-0"



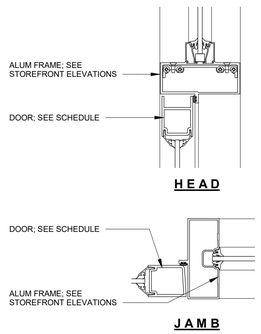
15 HM DR JAMB @ BRICK & MTL STUD

1 1/2" = 1'-0"



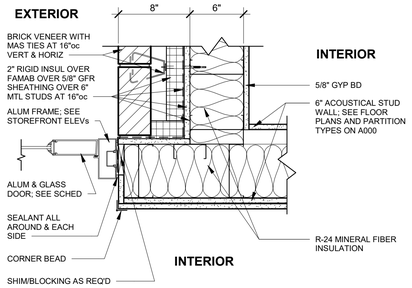
14 HM DR HEAD @ BRICK & MTL STUD

1 1/2" = 1'-0"



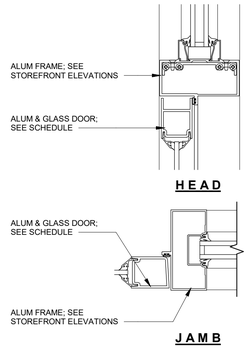
13 HEAD & JAMB - ALUM DR @ STOREFRONT

3" = 1'-0" **INTERIOR STOREFRONT**



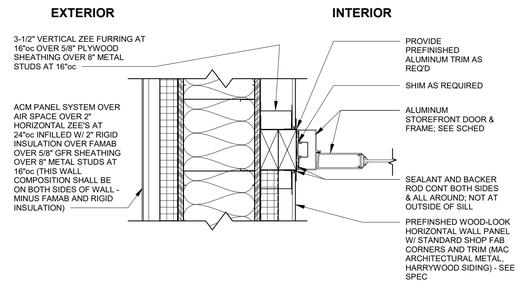
12 JAMB - ALUM DR @ BRK & MTL STUD

1 1/2" = 1'-0"



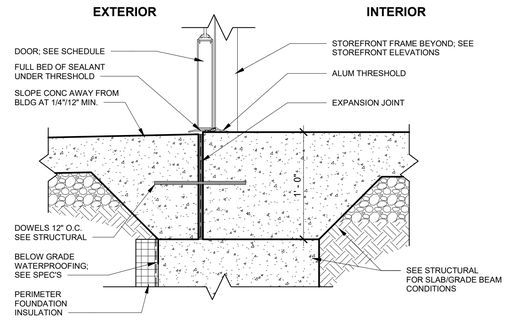
11 HEAD & JAMB - ALUM DR @ STOREFRONT

3" = 1'-0" **EXTERIOR STOREFRONT**



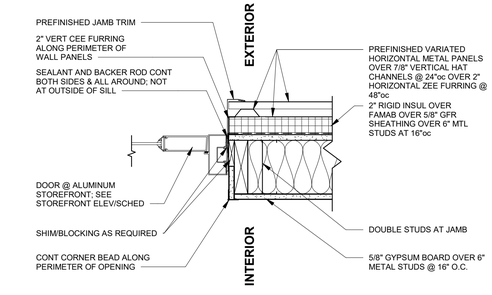
10 JAMB - ALUM DR @ ACM

1 1/2" = 1'-0"



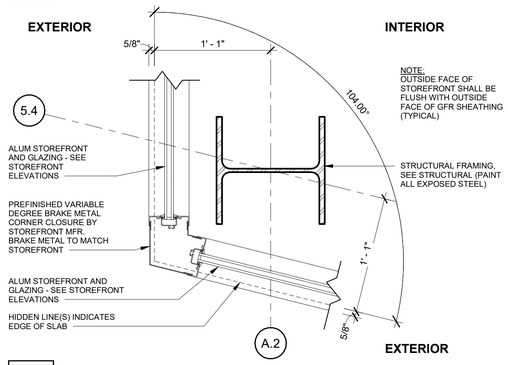
9 DOOR THRESHOLD

1 1/2" = 1'-0"



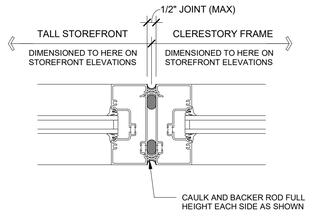
8 DOOR @ STOREFRONT JAMB

1 1/2" = 1'-0" **@ HORIZ MTL WALL PANEL**



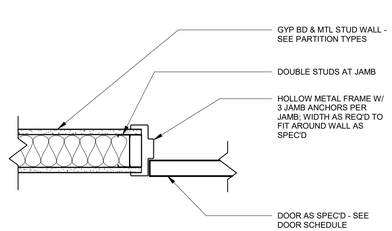
7 STOREFRONT JAMB

1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



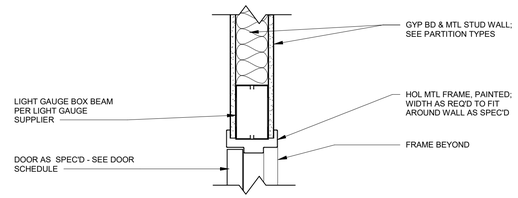
6 STOREFRONT JAMB

3" = 1'-0" **WHERE CLERESTORY FRAME MEETS TALL FRAME**



5 DOOR JAMB

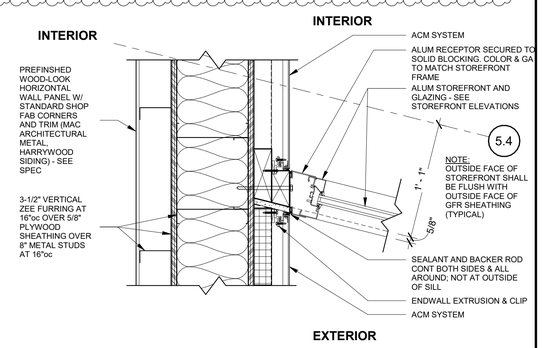
1 1/2" = 1'-0" **HOLLOW METAL**



4 DOOR HEAD

1 1/2" = 1'-0" **HOLLOW METAL**

1 DETAILS 2 & 3, THIS WAS OMITTED. THEY REFERENCED DOOR TYPE "SG" WHICH WAS OMITTED



1 STOREFRONT JAMB

1 1/2" = 1'-0" **EXTERIOR STOREFRONT**

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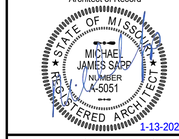

1-13-2020
Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
1	ADDENDUM 01	01/10/20

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A405

HEAD, JAMB, AND SILL DETAILS

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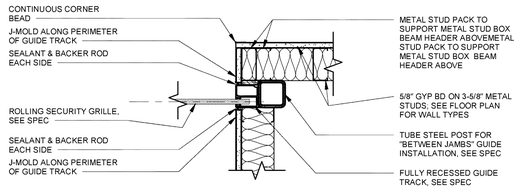
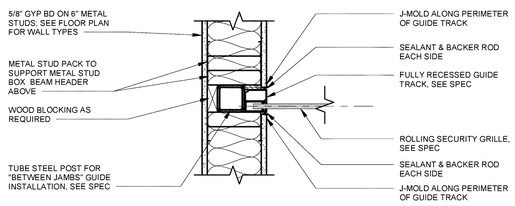


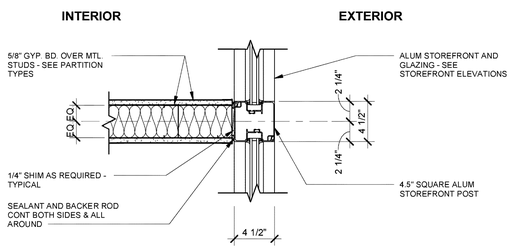
7 DOOR JAMB

1 1/2" = 1'-0" **ROLLING SECURITY GRILLE (RECESSED GUIDES)**



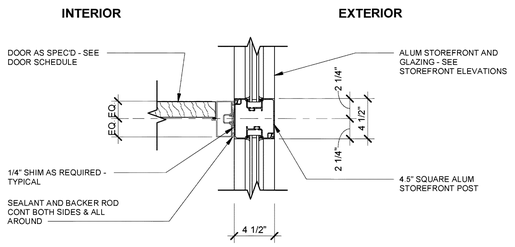
6 DOOR JAMB

1 1/2" = 1'-0" **ROLLING SECURITY GRILLE (RECESSED GUIDES)**



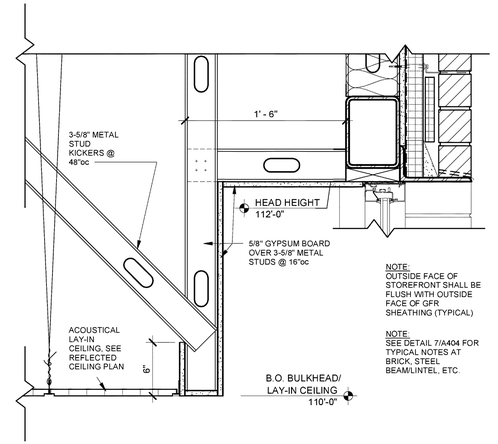
5 STOREFRONT JAMB

1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



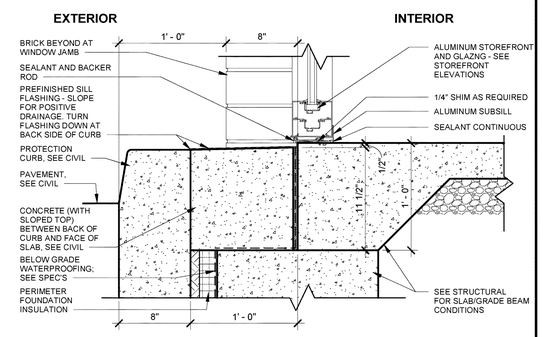
4 STOREFRONT JAMB

1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



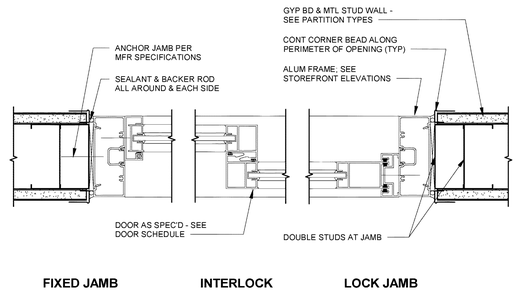
3 STOREFRONT HEAD

1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



2 STOREFRONT SILL

1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



1 JAMB @ SLIDING DOORS

3" = 1'-0"

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STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No.

A406

HEAD, JAMB AND SILL DETAILS

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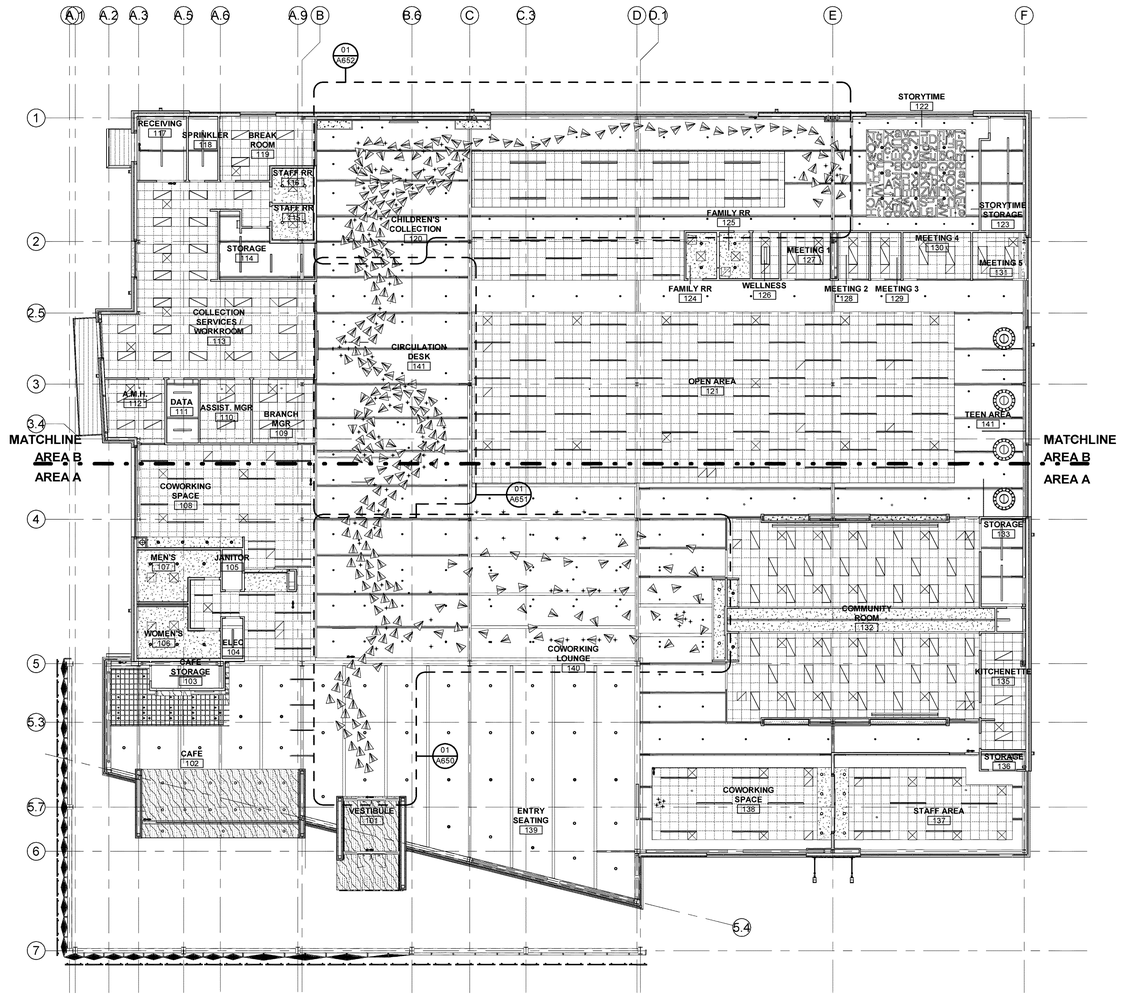

1 OVERALL REFLECTED CEILING PLAN

1/16" = 1'-0"

GENERAL NOTES

1. COORDINATE REFLECTED CEILING PLAN WITH LIGHTING AND MECHANICAL PLANS FOR LIGHT FIXTURE PLACEMENT AND DIFFUSER PLACEMENT. IF DISCREPANCIES OCCUR CONTACT ARCHITECT FOR RESOLUTION. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD LOCATIONS. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF 6" FROM CEILING GRID. COORDINATE LOCATIONS WITH LIGHTS AND DIFFUSERS, LIGHT FIXTURE LOCATION SHALL PREVAIL.
2. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY. VERIFY ALL DIMENSIONS BEFORE PROCEEDING. ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON THE DRAWINGS, WHICH MAY AFFECT INTENT OF DESIGN OR PROPER INCORPORATION OF ELEMENTS, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
3. ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF BRICK OR FACE OF EIFS. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE ± AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
4. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL & PLUMBING WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE SAID WORK INCLUDING, BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, BACKING AND COORDINATION OF FINISH WORK, WHETHER OR NOT SPECIFICALLY INDICATED ON CONTRACT DOCUMENTS.
5. GENERAL CONTRACTOR SHALL COORDINATE DUCTWORK WITH JOIST X-BRACING OR HORIZONTAL BRIDGING.

CEILING TYPES

C1: 2x2 SUSPENDED ACOUSTICAL TILE CEILING (TEGULAR EDGE) - ARMSTRONG OPTIMA PANELS 15/16 SQUARE TEGULAR 3250 PRELUDE XL GRID

C2: 2X2 SUSPENDED ACOUSTICAL TILE CEILING (TEGULAR EDGE) - ARMSTRONG ULTIMA PANELS 15/16 BEVELED TEGULAR 1951 PRELUDE XL GRID

C3: PAINTED GYP BD HEADER, SOFFIT, BULKHEAD, OR CEILING PT1 UNO

C4: NO CEILING - EXPOSED STRUCTURE PAINTED BLACK

C5: WOOD BAFFLE CEILING - FC EXPORT HICKORY, DOOGE VENEERS LOG #1103317, WIDTH VARIES, REF PLAN, 7" H X 2" D GRID SUSPENDED WITH LIGHT WEIGHT CORE. BAFFLES BY MILLWORK, INTEGRATED IN MILLWORK DISPLAY, ARMSTRONG 15/16" WHITE GRID, PAINT EXPOSED DECK PT1 ABOVE

C6: NO CEILING- EXPOSED ACOUSTIC DECK PAINTED PT1

C7: FELT PANEL WITH PRINTED ALPHABET CEILING - TURF 9MM TILE, LIGHT GREY 04, CUSTOM UV PRINT LETTERING IN DARK GREY, MAGNETIC HOLD HARDWARE OVER 15/16" SQUARE EDGE GRID BY OTHERS

ROOM NAME — ROOM NAME
101 — ROOM NUMBER
C-3 | 10'-10" — CEILING HEIGHT
CEILING FINISH

NOTE:
SEE BUILDING SECTIONS AND INTERIOR ELEVATIONS

REFLECTED CEILING LEGEND

- 2'-0" x 4'-0" RECESSED LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- RECESSED LINEAR LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- RECESSED CAN LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- LINEAR PENDANT LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- CYLINDER PENDANT LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- DECORATIVE PENDANT LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- DECORATIVE ACOUSTIC DRUM PENDANT FIXTURES (SEE ELECTRICAL PLANS)

PAPER AIRPLANE SCHEDULE

Type Mark	Count	Description
P-01	24 (8 ADD ALT)	RESIN - DENIM B31
P-02	16 (8 ADD ALT)	RESIN - PIER B45
P-03	24 (8 ADD ALT)	RESIN - BUOYANT B20
P-04	8 (8 ADD ALT)	FELT - MOON
P-05	16 (8 ADD ALT)	FELT - CAST
P-06	16 (8 ADD ALT)	RESIN - PAPRIKA O22
P-07	16 (8 ADD ALT)	RESIN - CRANBERRY R17
P-08	16 (8 ADD ALT)	RESIN - GYPSY R20
P-09	24 (8 ADD ALT)	RESIN - VEGAN G25
P-10	16 (8 ADD ALT)	FELT - CITRINE
P-11	16 (8 ADD ALT)	RESIN - SUNNYSIDE Y17
P-12	16 (8 ADD ALT)	FELT - ZINC
Grand total: 208 (+96 TOTAL ADD ALT REF ADD ALT 02)		

*PLANES HATCHED IN GRAY ON THE A650 SERIES NOTE LOCATIONS OF THE ADD ALTERNATE PLANES. REF ADD ALTERNATE 02

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STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT
Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.
⚠1 **A600**
OVERALL REFLECTED CEILING PLAN

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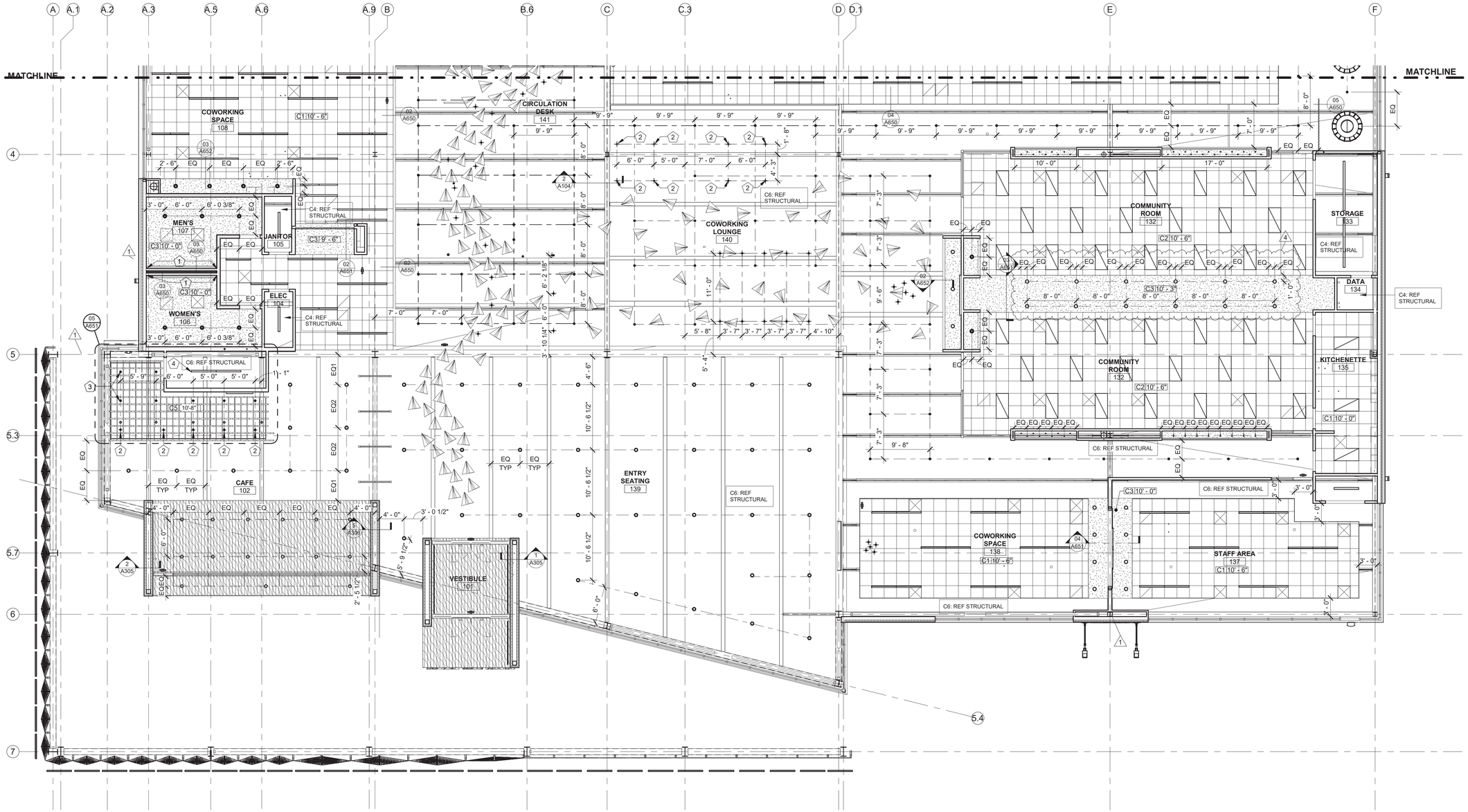
KEYNOTES

1	COVE TO EXTEND FULL LENGTH OF WALL
2	COORDINATE DECORATIVE PENDANT MOUNTING HEIGHT WITH ARCHITECT IN FIELD
3	CENTER LIGHT FIXTURE BETWEEN WOOD BAFFLE, TYP
4	CENTER LIGHT FIXTURE WITHIN ROOM

GENERAL NOTE

1. SEE SHEET A600 FOR GENERAL NOTES, CEILING TYPES & REFLECTED CEILING LEGEND



1 REFLECTED CEILING PLAN - AREA A

1/8" = 1'-0"

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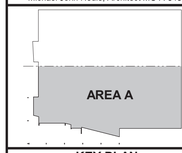
Michael John Heule, Architect MO A-5451



KEY PLAN

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A601

REFLECTED CEILING PLAN - AREA A

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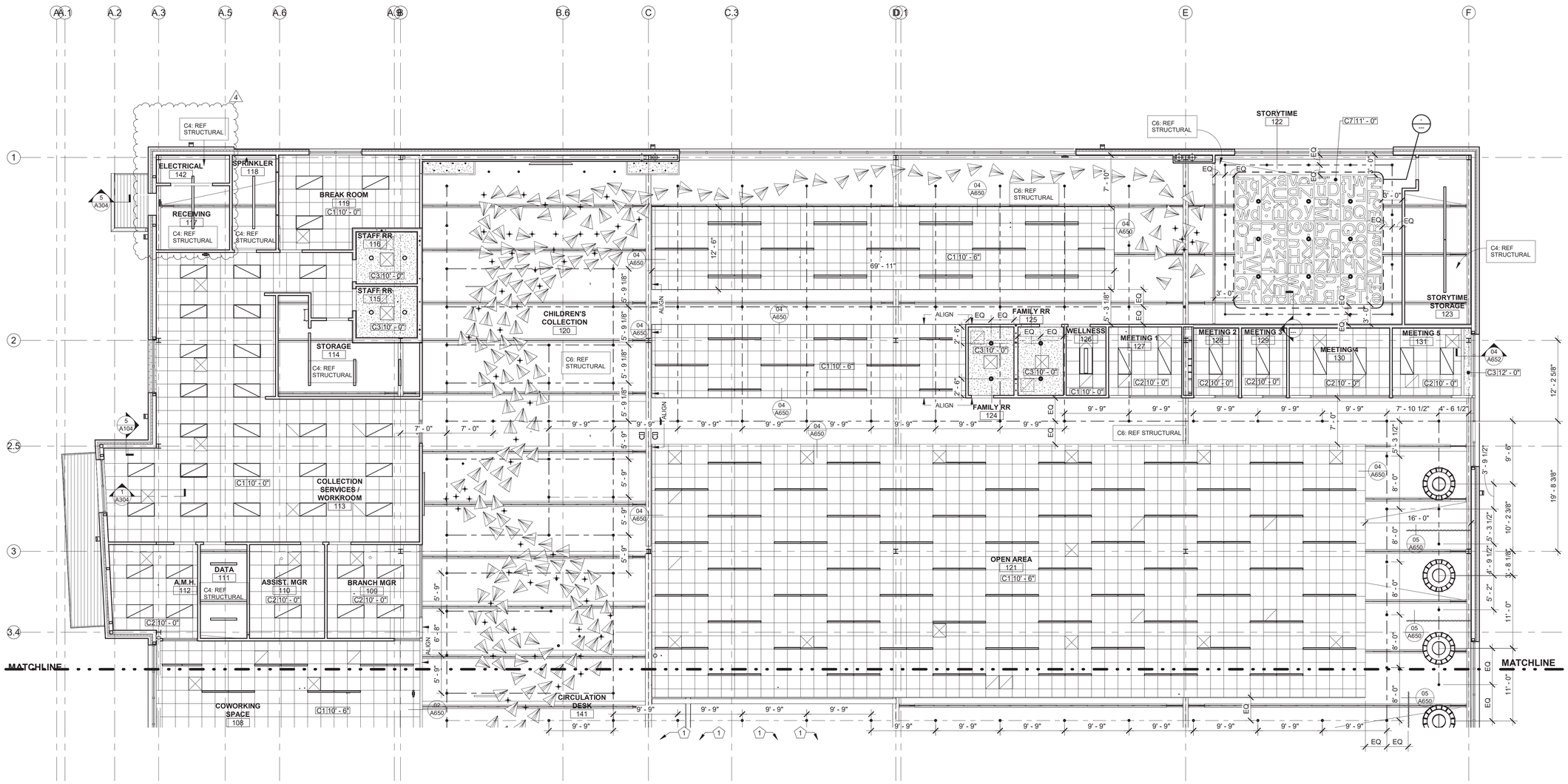
KEYNOTES

1

GENERAL NOTE

1. SEE SHEET A600 FOR GENERAL NOTES, CEILING TYPES & REFLECTED CEILING LEGEND



1 REFLECTED CEILING PLAN

1/8" = 1'-0"

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Michael John Heule, Architect MO A-5451

AREA B

KEY PLAN

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A602

REFLECTED CEILING PLAN - AREA B

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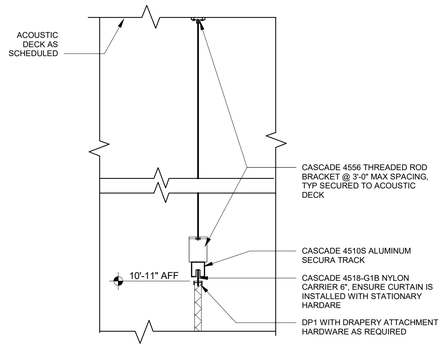
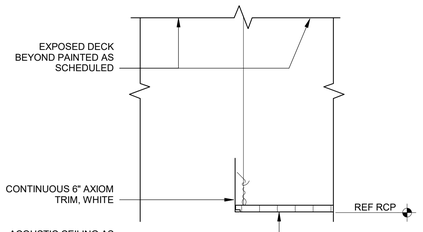


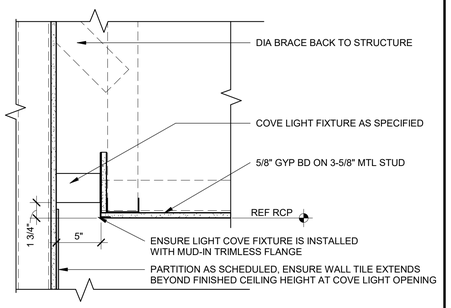
05 RCP DETAIL @ COIL DRAPERY TRACK

1 1/2" = 1'-0"



04 RCP DETAIL @ ACT TO EXPOSED DECK

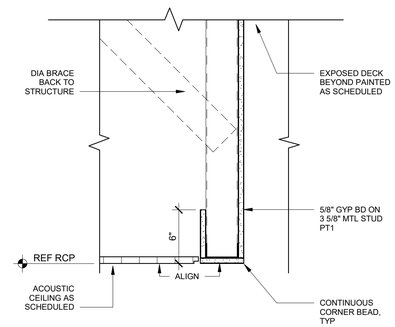
1 1/2" = 1'-0"



* NOTE: COVE SHOULD EXTEND ENTIRE LENGTH OF WALL.

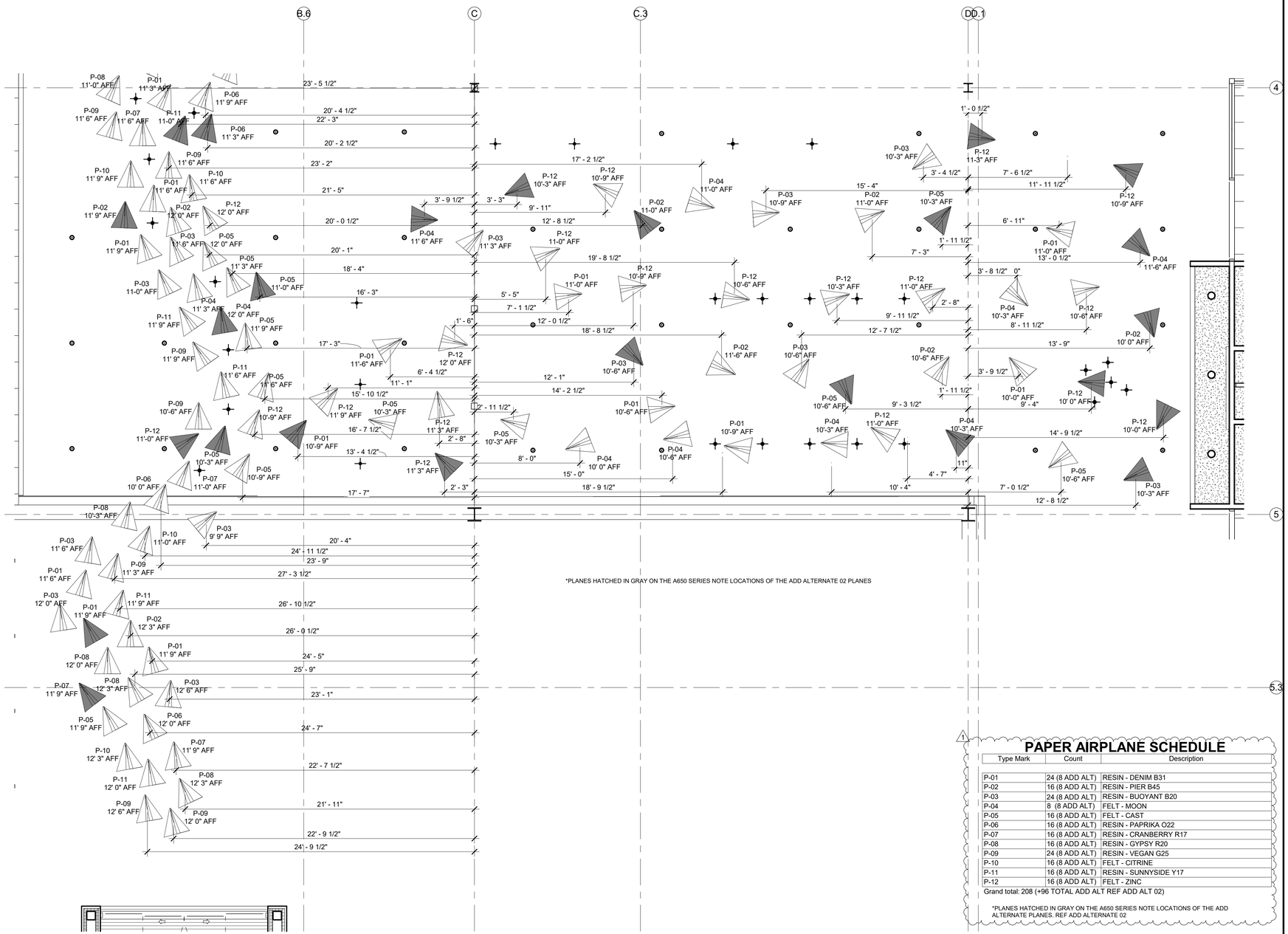
03 RCP DETAIL @ COVE LIGHT

1 1/2" = 1'-0"



02 RCP DETAIL @ ACT TO GYP HEADER

1 1/2" = 1'-0"



*PLANES HATCHED IN GRAY ON THE A650 SERIES NOTE LOCATIONS OF THE ADD ALTERNATE 02 PLANES

01 ENLARGED RCP @ COWORKING LOUNGE PLANES

1/4" = 1'-0"

PAPER AIRPLANE SCHEDULE

Type Mark	Count	Description
P-01	24 (8 ADD ALT)	RESIN - DENIM B31
P-02	16 (8 ADD ALT)	RESIN - PIER B45
P-03	24 (8 ADD ALT)	RESIN - BUOYANT B20
P-04	8 (8 ADD ALT)	FELT - MOON
P-05	16 (8 ADD ALT)	FELT - CAST
P-06	16 (8 ADD ALT)	RESIN - PAPRIKA O22
P-07	16 (8 ADD ALT)	RESIN - CRANBERRY R17
P-08	16 (8 ADD ALT)	RESIN - GYPSY R20
P-09	24 (8 ADD ALT)	RESIN - VEGAN G25
P-10	16 (8 ADD ALT)	FELT - CITRINE
P-11	16 (8 ADD ALT)	RESIN - SUNNYSIDE Y17
P-12	16 (8 ADD ALT)	FELT - ZINC

Grand total: 208 (+96 TOTAL ADD ALT REF ADD ALT 02)

*PLANES HATCHED IN GRAY ON THE A650 SERIES NOTE LOCATIONS OF THE ADD ALTERNATE PLANES: REF ADD ALTERNATE 02

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NUMBER A-5451
REGISTERED ARCHITECT
Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A650

ENLARGED RCP & DETAILS

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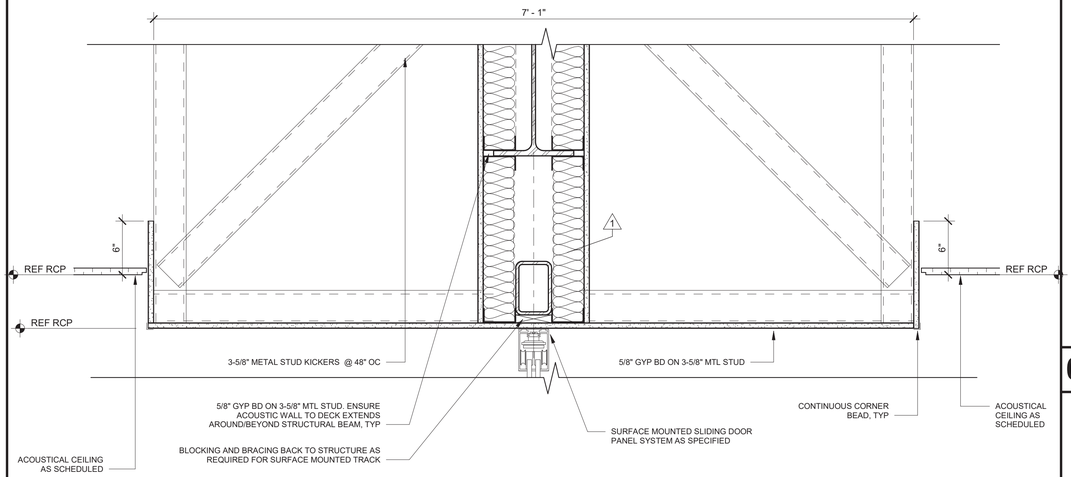
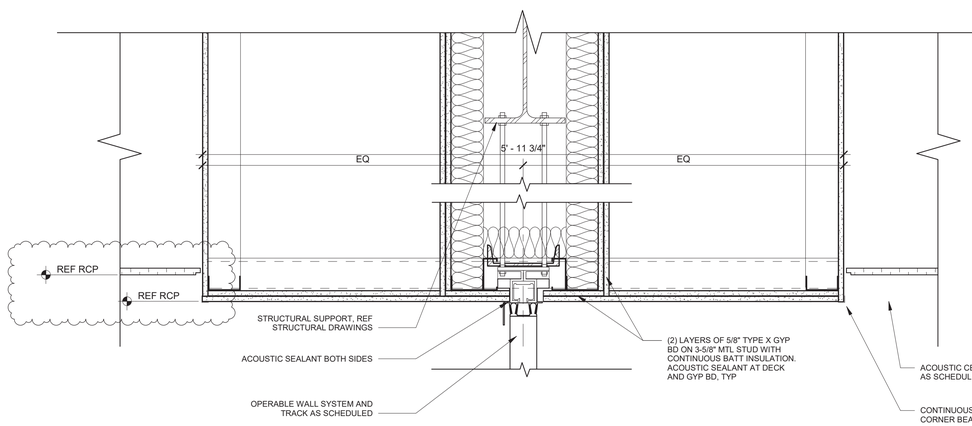


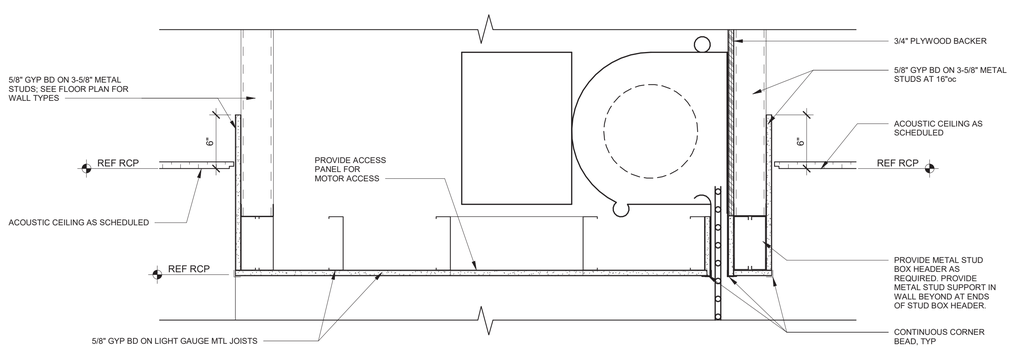
04 RCP DETAIL @ SLIDING GLASS DOOR SYSTEM

1 1/2" = 1'-0"



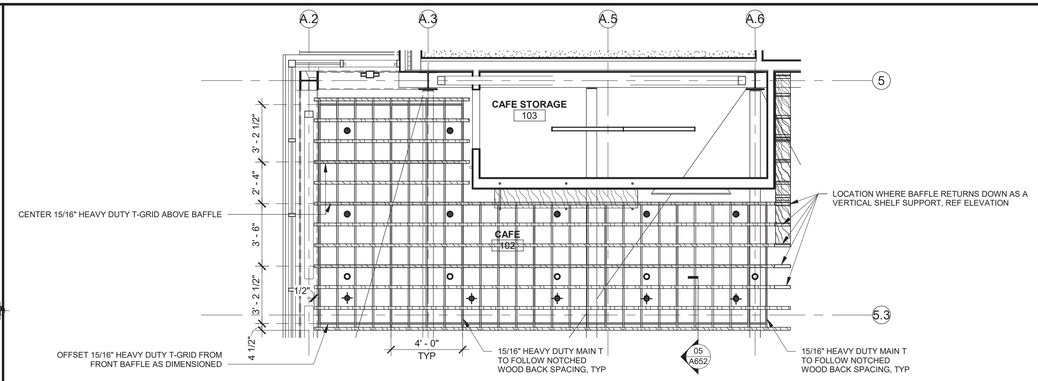
03 RCP DETAIL @ OPERABLE PARTITION

1 1/2" = 1'-0"



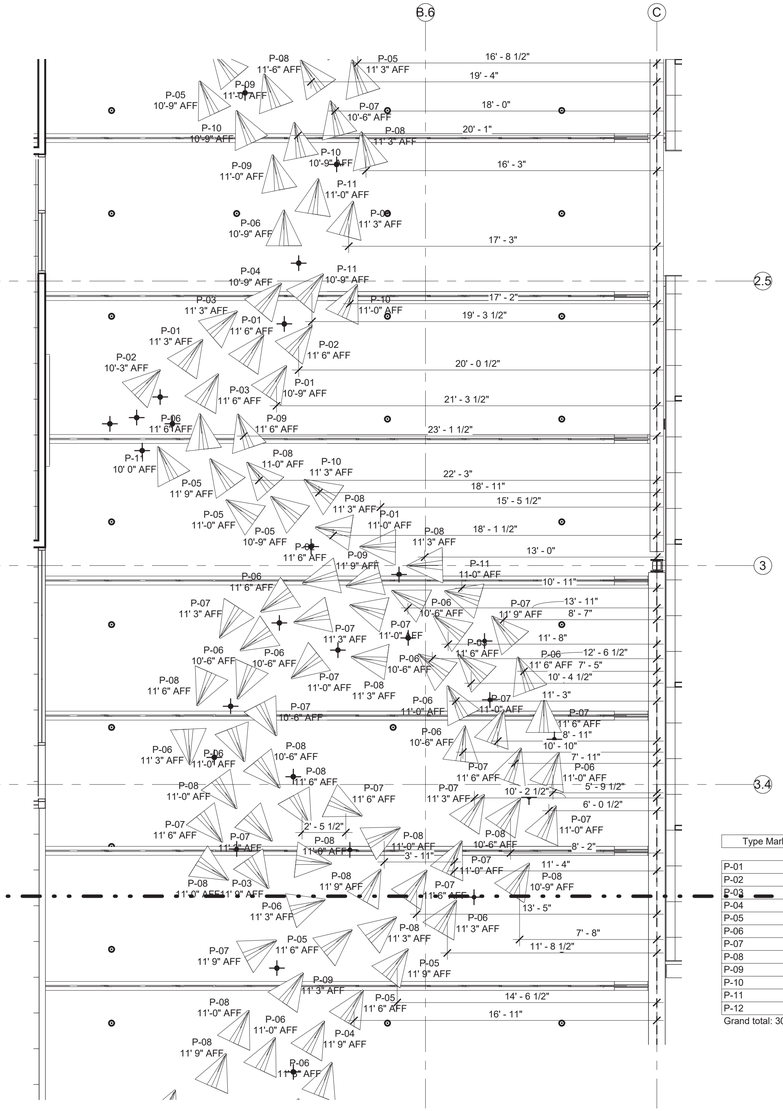
02 RCP DETAIL @ OVERHEAD SECURITY GRILLE

1 1/2" = 1'-0"



05 ENLARGED RCP @ CAFE 102

1/4" = 1'-0"



PAPER AIRPLANE SCHEDULE

Type Mark	Count	Description
P-01	32	RESIN - DENIM B31
P-02	24	RESIN - PIER B45
P-03	32	RESIN - BUOYANT B20
P-04	16	FELT - MOON
P-05	24	FELT - CAST
P-06	24	RESIN - PAPRIKA O22
P-07	24	RESIN - CRANBERRY R17
P-08	24	RESIN - GYPSY R20
P-09	32	RESIN - VEGAN G25
P-10	24	FELT - CITRINE
P-11	24	RESIN - SUNNYSIDE Y17
P-12	24	FELT - ZINC

Grand total: 304

01 ENLARGED RCP @ COWORKING LOUNGE PLANES2

1/4" = 1'-0"

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Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
3	ASI 01	02/17/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A651

ENLARGED RCP & DETAILS

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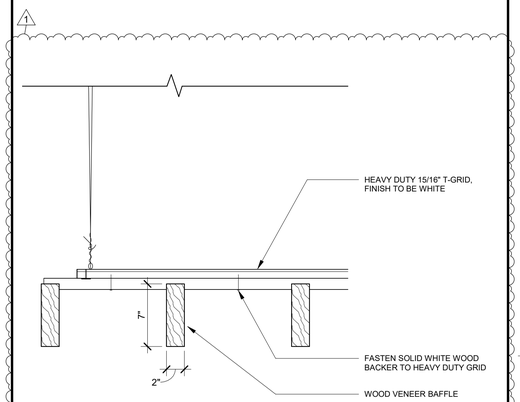
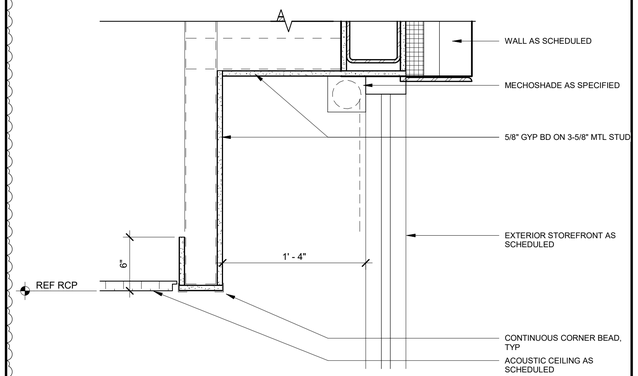
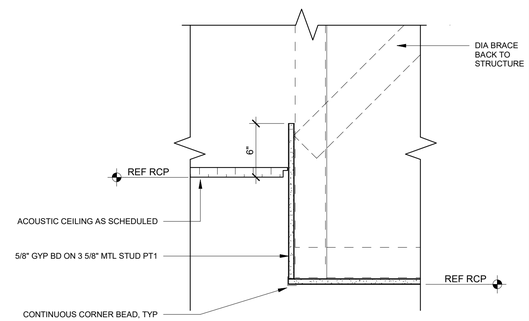


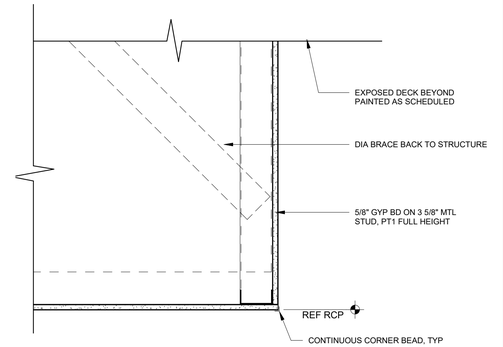
05 RCP DETAIL @ BAFFLE CEILING
1 1/2" = 1'-0"



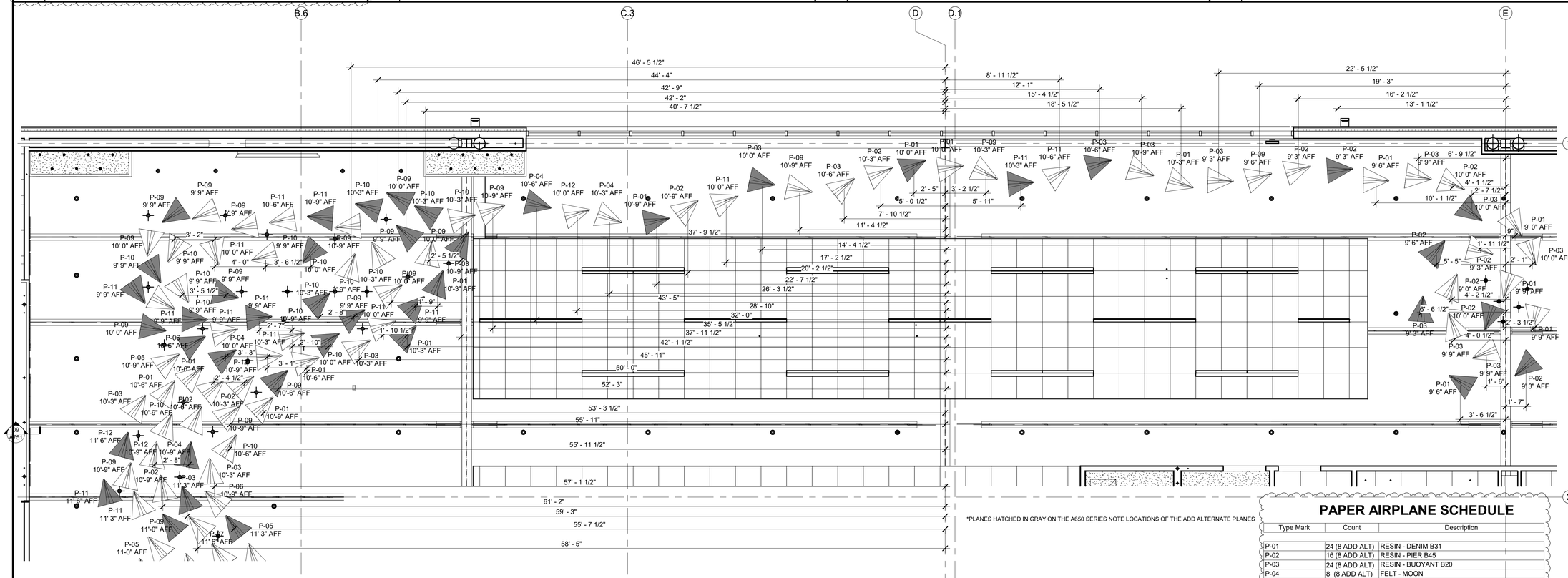
04 RCP DETAIL @ WINDOW LIGHT
1 1/2" = 1'-0"



03 RCP DETAIL @ GYP TO ACT TRANSITION
1 1/2" = 1'-0"



02 RCP DETAIL @ GYP TO EXPOSED CLG TRANSITION
1 1/2" = 1'-0"



*PLANES HATCHED IN GRAY ON THE A650 SERIES NOTE LOCATIONS OF THE ADD ALTERNATE PLANES

PAPER AIRPLANE SCHEDULE

Type Mark	Count	Description
P-01	24 (8 ADD ALT)	RESIN - DENIM B31
P-02	16 (8 ADD ALT)	RESIN - PIER B45
P-03	24 (8 ADD ALT)	RESIN - BUOYANT B20
P-04	8 (8 ADD ALT)	FELT - MOON
P-05	16 (8 ADD ALT)	FELT - CAST
P-06	16 (8 ADD ALT)	RESIN - PAPRIKA O22
P-07	16 (8 ADD ALT)	RESIN - CRANBERRY R17
P-08	16 (8 ADD ALT)	RESIN - GYPSY R20
P-09	24 (8 ADD ALT)	RESIN - VEGAN G25
P-10	16 (8 ADD ALT)	FELT - CITRINE
P-11	16 (8 ADD ALT)	RESIN - SUNNYSIDE Y17
P-12	16 (8 ADD ALT)	FELT - ZINC
Grand total: 208 (+96 TOTAL ADD ALT REF ADD ALT 02)		

01 ENLARGED RCP @ COWORKING LOUNGE PLANES3
1/4" = 1'-0"

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Missouri State Certificate of Authority #000607

helix.
1629 Walnut
Kansas City, MO 64108 816.300.0300
Helix Architecture + Design
Missouri State Certificate of Authority #000720

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In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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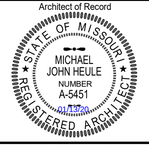
Architect of Record



Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A652
ENLARGED RCP & DETAILS

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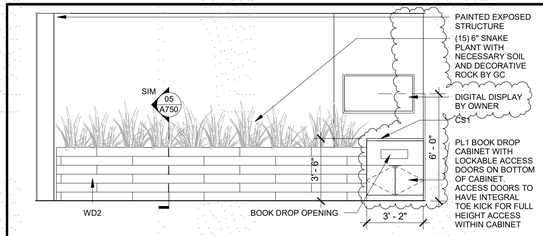
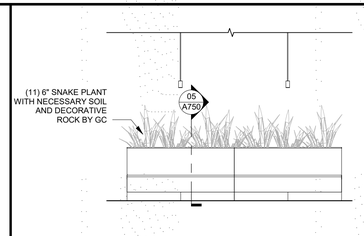
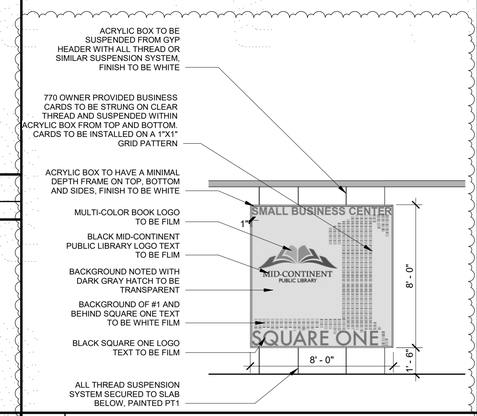


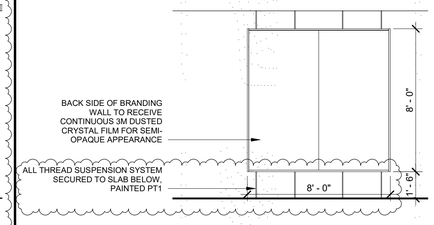
19 LARGE PLANTER PARTITION - E
1/4" = 1'-0"



14 TYPICAL PLANTER PARTITION - N
1/4" = 1'-0"



09 SQUARE ONE BRANDING WALL - E
1/4" = 1'-0"

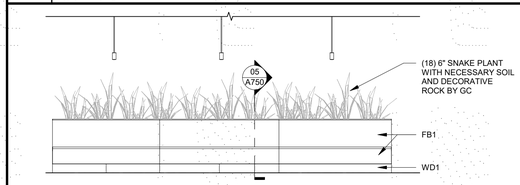


07 SQUARE ONE BRANDING WALL - W
1/4" = 1'-0"

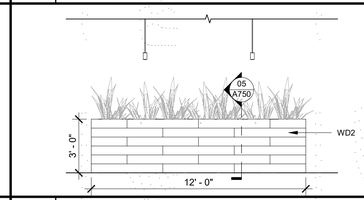
GENERAL NOTES

1. ALL MILLWORK TO CONFORM TO AWS STANDARDS, U.N.O.
2. REFER TO AWS MILLWORK STANDARDS FOR DESIGN DESIGNATIONS
3. ALL COUNTER TOPS SHALL BE SOILD SURFACE, U.N.O
4. COLOR OF MELAMINE FINISH FOR PARTICLE BOARD & HARDBOARD SHALL BE AS SELECTED BY THE ARCHITECT
5. ALL INTERIOR SHELF BRACKETS & CLIPS @ CABINETS SHALL BE K&V OR EQUAL. PROVIDE 4 CLIPS PER SHELF.
6. ALL DOOR HINGES TO BE THE FRAMELESS CONCEALED HINGES, 170 DEGRESS OF OPENING, UNLESS NOTED OTHERWISE.
7. PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.
8. ALL FINISHED DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION OF CASEWORK.
9. CUT & SCRIBE CABINETS AND/OR COUNTERS TO FIT AROUND WALL PILASTERS, OFFSETS, COLUMNS AND OTHER IRREGULARITIES.
10. ALL DRAWERS SHALL HAVE K&V OR EQUAL HEAVY DUTY DRAWER SLIDES & HARDWARE. PROVIDE DRAWER FRONTS TO MATCH DOORS AT CABINETS.
11. ALL CABINET HARDWARE SHALL BE K&V OR EQUAL & SHALL BE FURNISHED BY CASEWORK CONTRACTOR. DOOR & DRAWER PULLS TO BE 'STANLEY MIN. 4" WIRE PULLS IN USP6D FINISH, ADA COMPLIANT, UNLESS NOTED OTHERWISE.
12. CABINET ELEVATIONS & SECTIONS SHOW DESIGN INTENT OF ARCHITECT. CASEWORK CONTRACTOR IS RESPONSIBLE FOR TYPICAL CABINET BRACING EVEN IF NOT SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.
13. FINISH ALL EXPOSED END PANELS OF CASEWORK TO MATCH ADJACENT CASEWORK FACES UNLESS NOTED OTHERWISE.
14. ALL DIMENSIONS AT CASEWORK ARE TO FACE OF FINISHED SURFACE UNLESS NOTED OTHERWISE.
15. SCRIBE TO WALLS. PROVIDE SEALANT AT JOINT.
16. PROVIDE FILLER STRIPS, CLAD IN FINISH AS NOTED IN ELEVATIONS, WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.

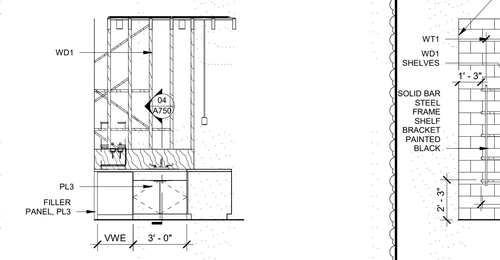
142 ← AWS MODEL DESIGNATION
36X34X24 ← SIZE (WXHXD)



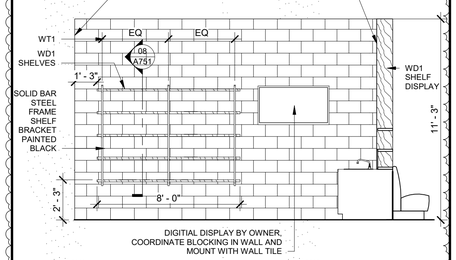
18 LARGE PLANTER PARTITION - W
1/4" = 1'-0"



13 TYPICAL PLANTER PARTITION - S
1/4" = 1'-0"



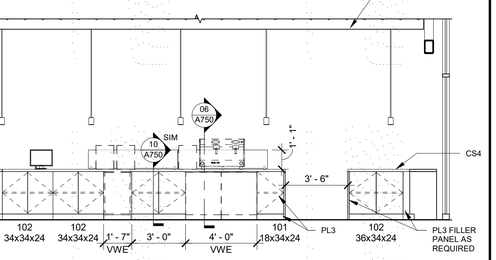
17 MEN'S 107 - N
1/4" = 1'-0"



12 MEN'S 107 - S
1/4" = 1'-0"

08 MEN'S 107 - W
1/4" = 1'-0"

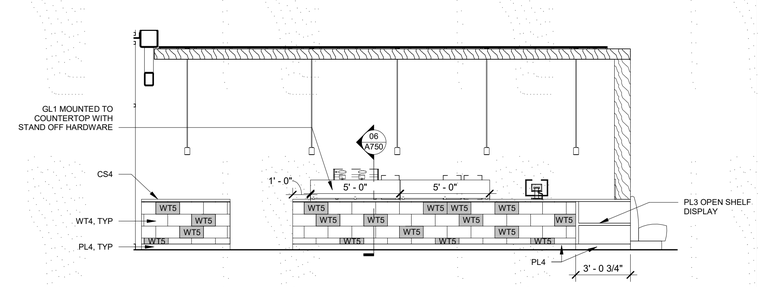
06 MEN'S 107 - E
1/4" = 1'-0"



03 CAFE 102 - TRASH CASEWORK
1/4" = 1'-0"

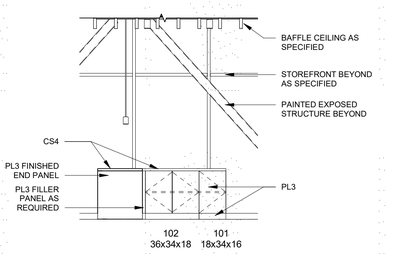
16 CAFE 102 - SERVERY CASEWORK E
1/4" = 1'-0"

11 CAFE 102 - SERVERY CASEWORK N
1/4" = 1'-0"

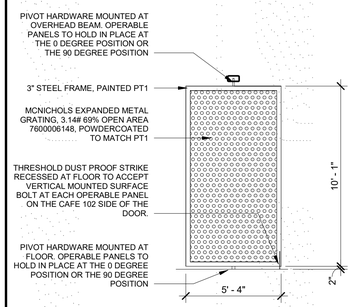


05 CAFE 102 - SERVERY FRONT
1/4" = 1'-0"

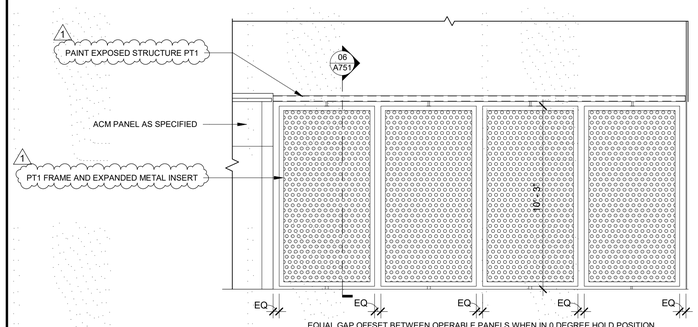
02 CAFE 102 - SERVERY CASEWORK S
1/4" = 1'-0"



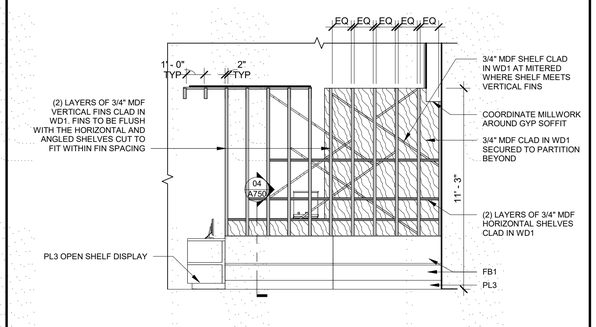
15 CAFE 102 - SERVERY CASEWORK W
1/4" = 1'-0"



10 CAFE 102 - TYP PIVOT DOOR
1/4" = 1'-0"



04 CAFE 102 - PIVOT DOOR SYSTEM
1/4" = 1'-0"



01 CAFE 102 - DISPLAY + BOOTH
1/4" = 1'-0"

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Architect of Record

STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A700

INTERIOR ELEVATIONS

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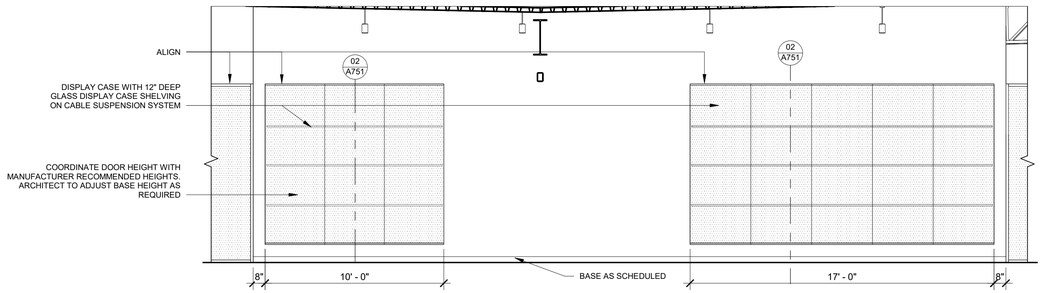
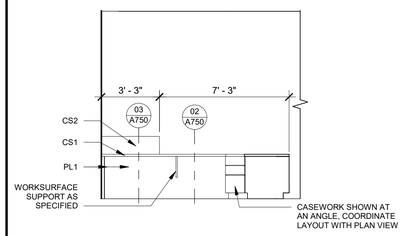
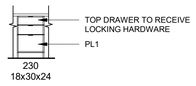


20 DISPLAY WALL
1/4" = 1'-0"

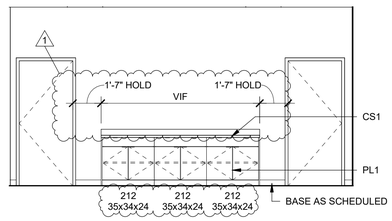


12 CHILDREN'S CIRC DESK INTERIOR - S
1/4" = 1'-0"

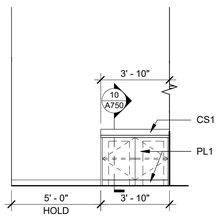
NOT USED



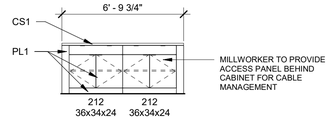
04 CIRCULATION DESK
1/4" = 1'-0"



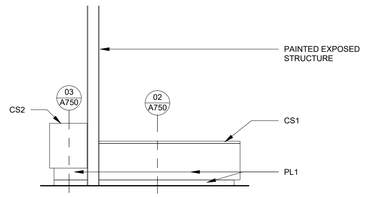
19 KITCHENETTE 133 - W
1/4" = 1'-0"



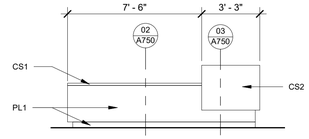
18 KITCHENETTE 133 - N
1/4" = 1'-0"



15 CIRC DESK PRINTER STATION - NW
1/4" = 1'-0"



11 CHILDREN'S CIRC DESK FRONT - E
1/4" = 1'-0"



07 CIRCULATION DESK FRONT - W
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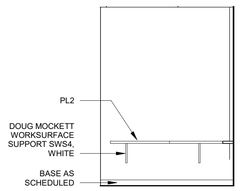
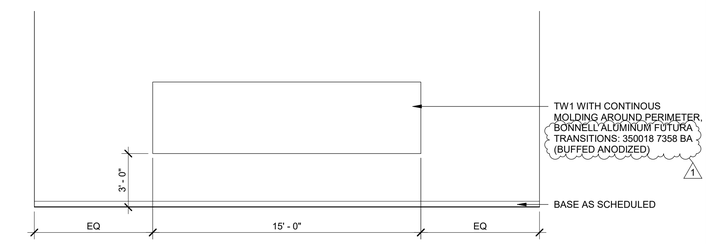
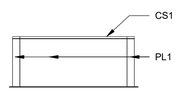


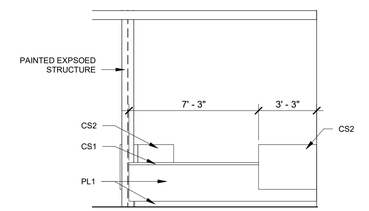
03 DRIVE UP WINDOW - S
1/4" = 1'-0"



17 STORYTIME 122 - TACWALL
1/4" = 1'-0"



14 CIRC DESK PRINTER STATION - SE
1/4" = 1'-0"



10 CHILDREN'S CIRC DESK FRONT - N
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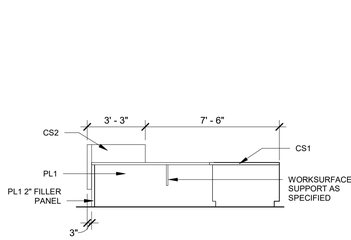
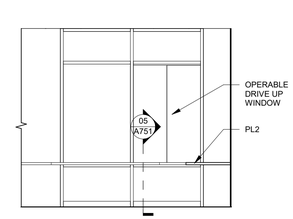
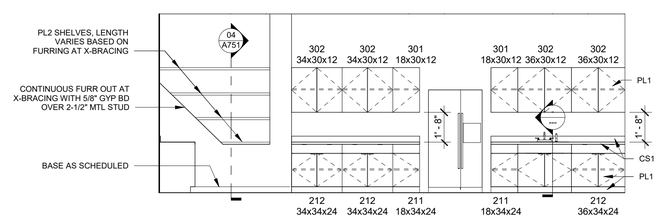


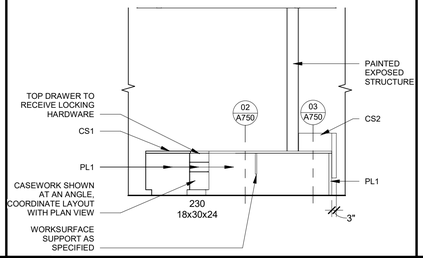
06 CIRCULATION DESK INTERIOR - E
1/4" = 1'-0"



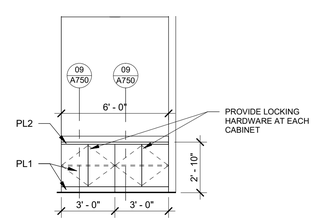
02 DRIVE UP WINDOW - W
1/4" = 1'-0"



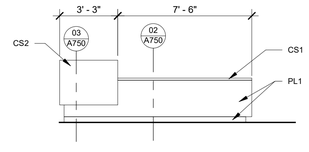
16 KITCHENETTE 133 - E
1/4" = 1'-0"



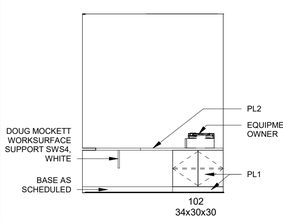
13 CHILDREN'S CIRC DESK INTERIOR - W
1/4" = 1'-0"



09 COMMUNITY ROOM 131 - AV CABINET
1/4" = 1'-0"



05 CIRCULATION DESK FRONT - N
1/4" = 1'-0"



01 DRIVE UP WINDOW - N
1/4" = 1'-0"

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Architect of Record
STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.
A701
INTERIOR ELEVATIONS

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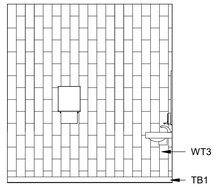
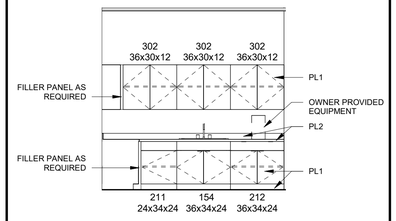
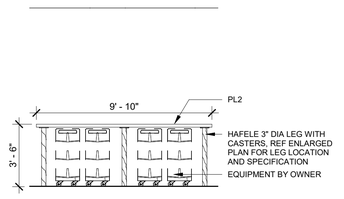


09 STAFF RR - N
1/4" = 1'-0"

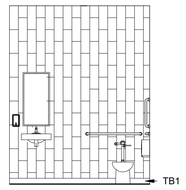
NOT USED



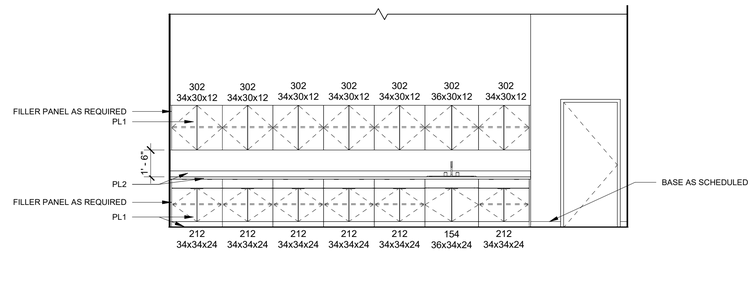
04 BREAK ROOM 119 - S
1/4" = 1'-0"



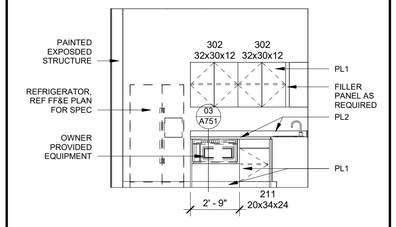
15 WORKROOM ISLAND - TYP
1/4" = 1'-0"



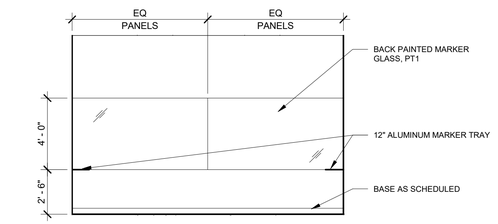
12 STAFF RR - E
1/4" = 1'-0"



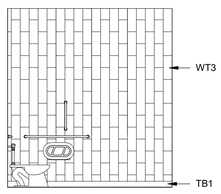
07 STORYTIME STORAGE 122 - CASEWORK
1/4" = 1'-0"



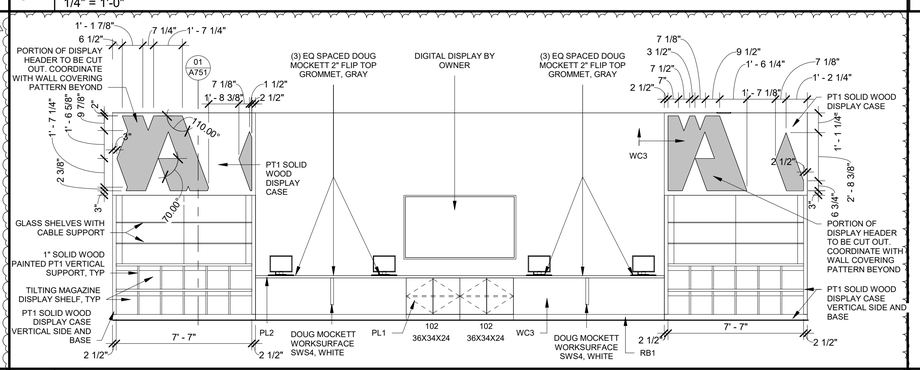
03 BREAK ROOM 119 - E
1/4" = 1'-0"



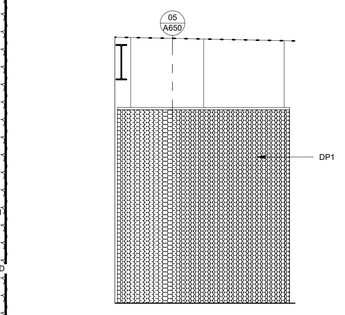
14 MEETING 130 - N
1/4" = 1'-0"



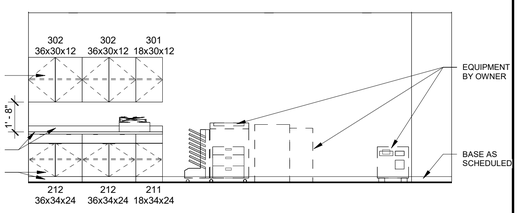
11 STAFF RR - S
1/4" = 1'-0"



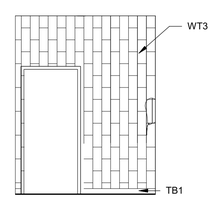
06 CHILDREN'S COLLECTION 119 - DISPLAY
1/4" = 1'-0"



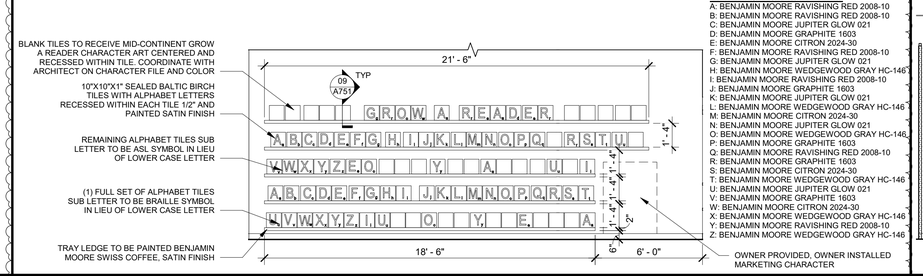
02 SUSPENDED COIL DRAPER - TYP
1/4" = 1'-0"



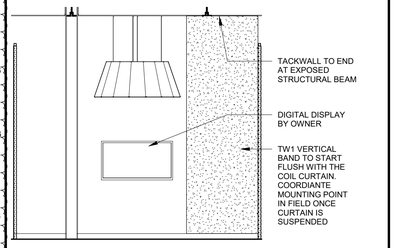
13 COWORKING SPACE 108 - S
1/4" = 1'-0"



10 STAFF RR - W
1/4" = 1'-0"



05 CHILDREN'S COLLECTION 119 - BRANDING WALL
1/4" = 1'-0"



01 TEEN TACWALL DISPLAY
1/4" = 1'-0"

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Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.
A702
INTERIOR ELEVATIONS

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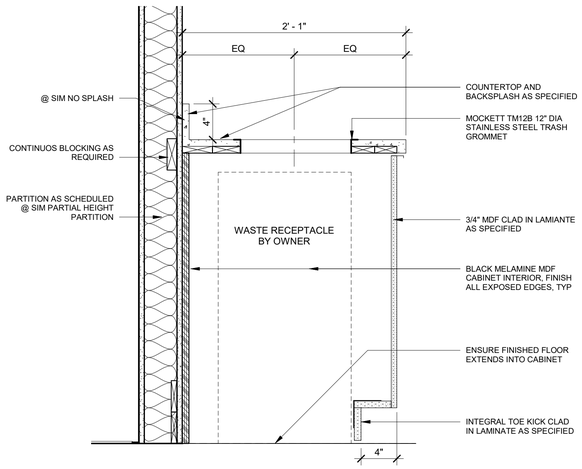
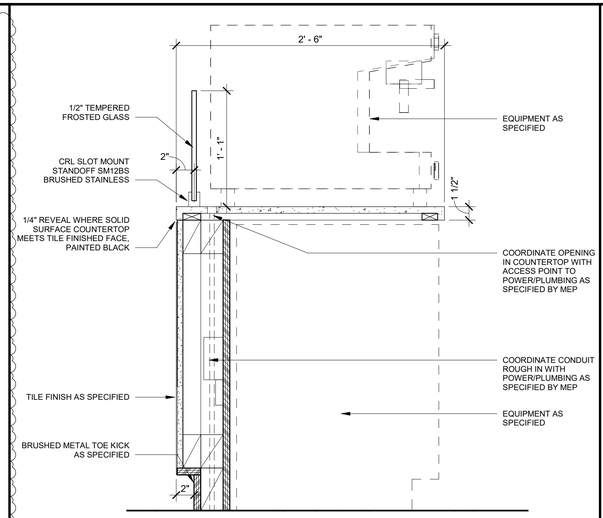


10 SECTION @ TRASH/RECYCLE CABINET

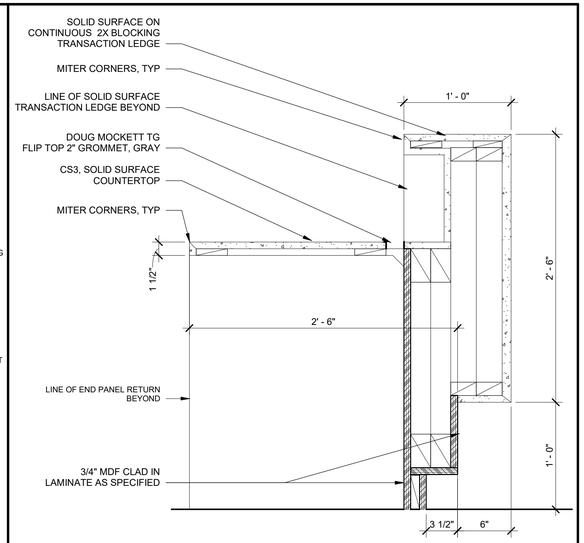
1 1/2" = 1'-0"

NOT USED



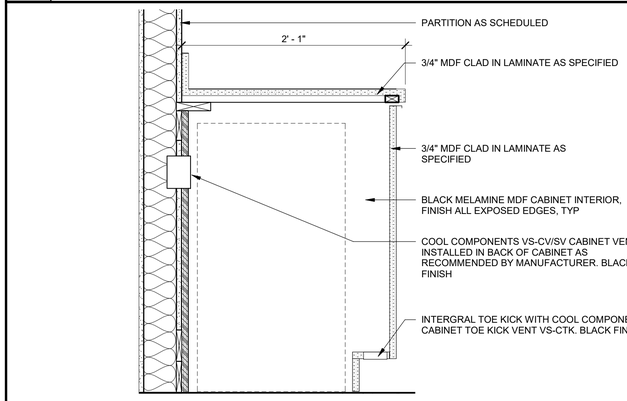
06 SECTION @ CAFE SERVERY

1 1/2" = 1'-0"



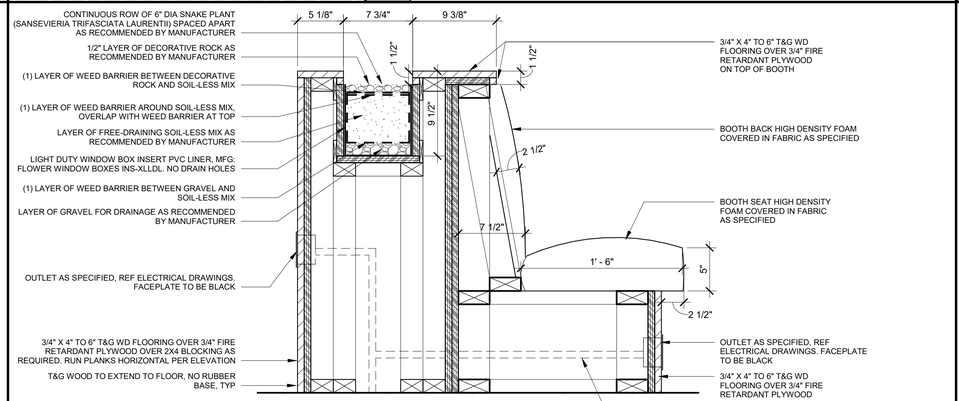
03 SECTION @ CIRC DESK

1 1/2" = 1'-0"



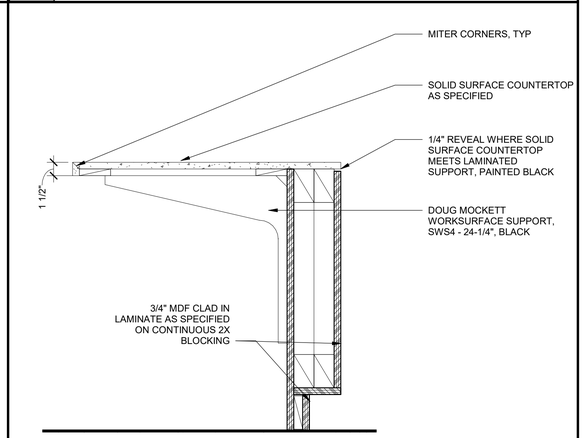
09 SECTION @ AV CABINET

1 1/2" = 1'-0"



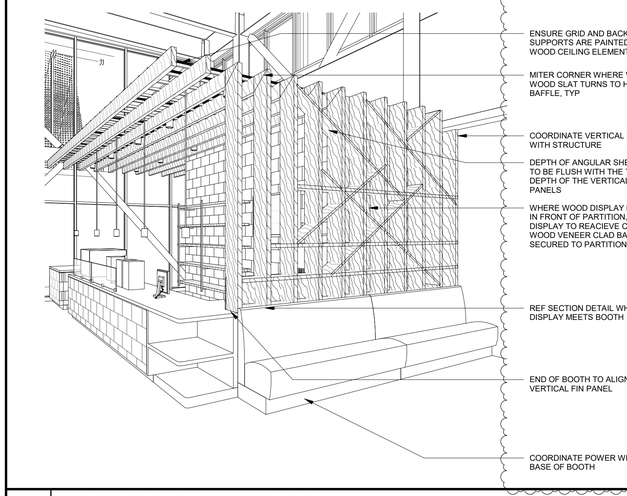
05 SECTION @ PLANTER BANQUETTE

1 1/2" = 1'-0"

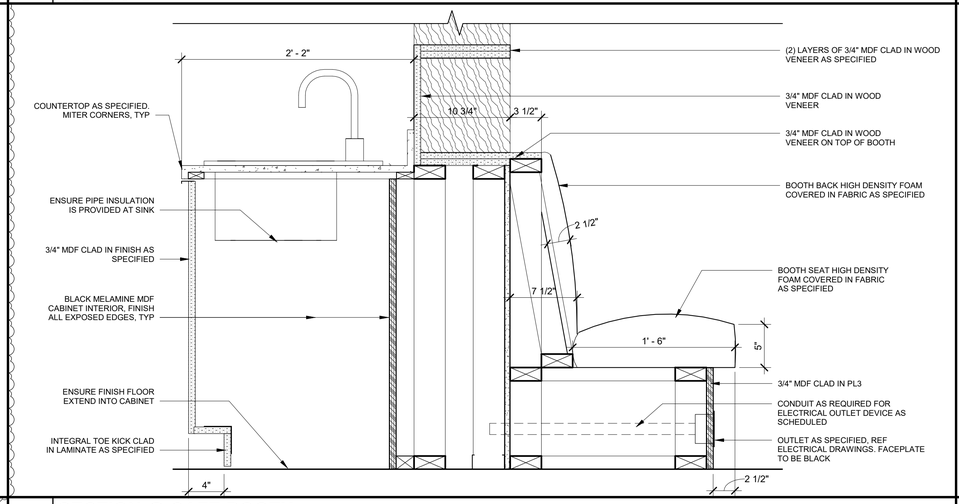


02 SECTION @ CIRC DESK COUNTER

1 1/2" = 1'-0"

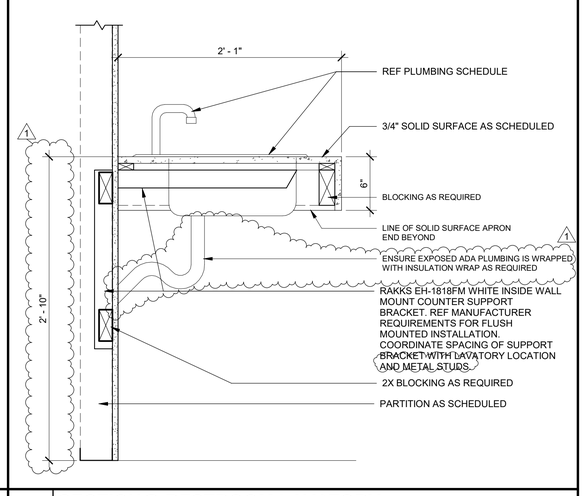


08 OBLIQUE @ CAFE DISPLAY



04 SECTION @ CAFE BOOTH

1 1/2" = 1'-0"



01 SECTION@ RESTROOM LAVATORY

1 1/2" = 1'-0"

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Drawing No.

A750

INTERIOR DETAILS

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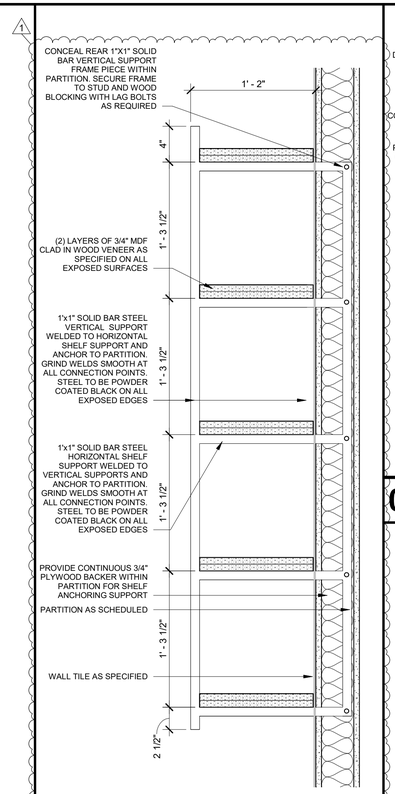
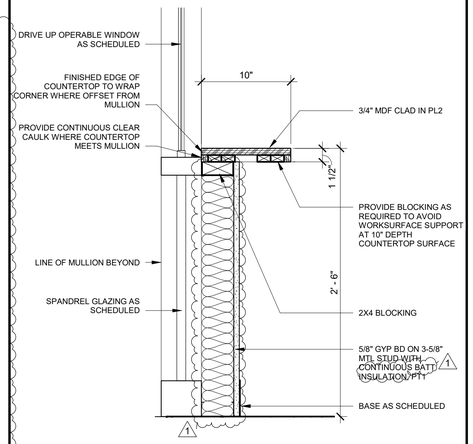
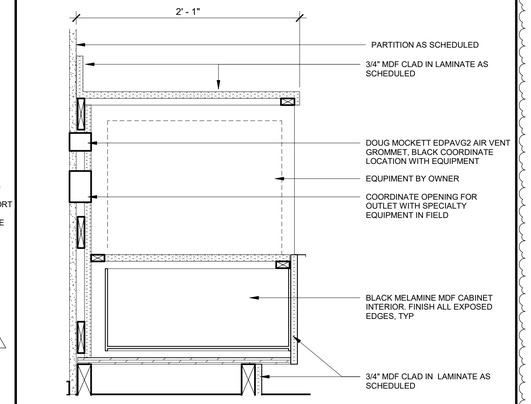


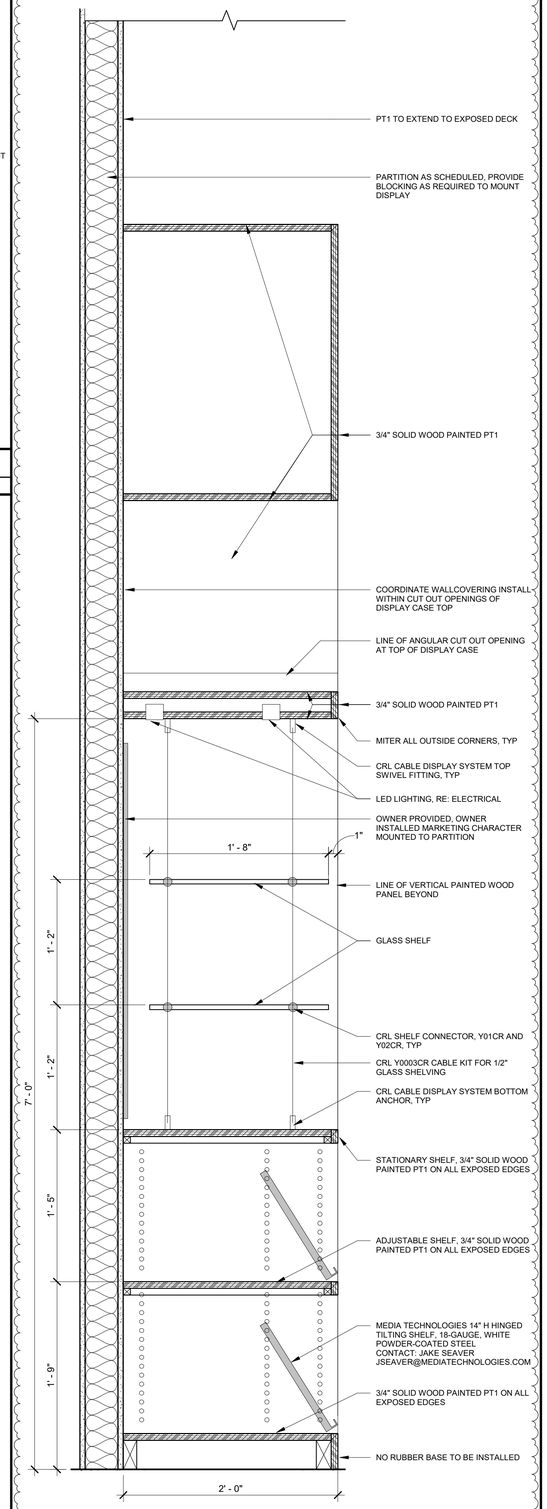
08 SECTION @ DISPLAY SHELF
1 1/2" = 1'-0"



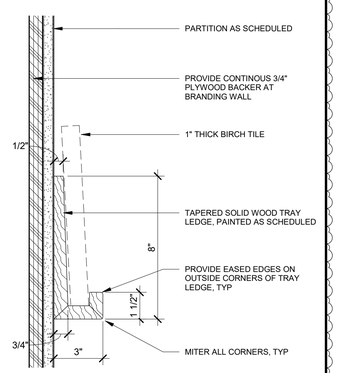
05 SECTION @ DRIVE UP WINDOW
1 1/2" = 1'-0"



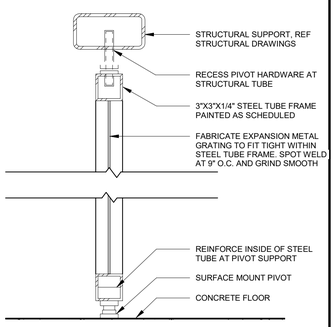
03 SECTION @ MICRWAVE CABINENT
1 1/2" = 1'-0"



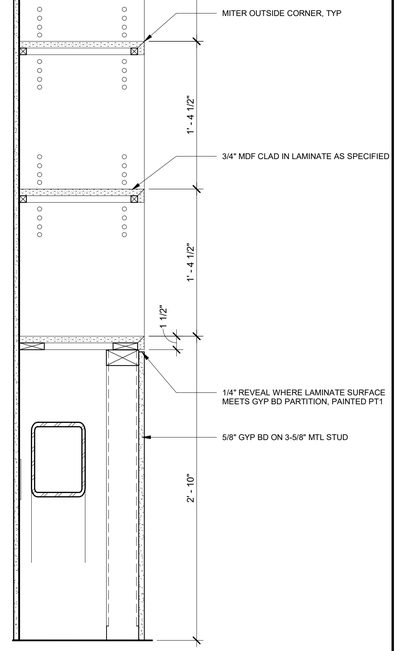
01 SECTION @ CHILDREN'S DISPLAY
1 1/2" = 1'-0"



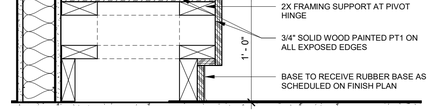
09 SECTION @ TRAY LEDGE
3" = 1'-0"



06 DETAIL @ METAL PIVOT DOOR
1 1/2" = 1'-0"



04 SECTION @ KITCHENETTE OPEN SHELVING
1 1/2" = 1'-0"



02 SECTION @ DISPLAY CASE
1 1/2" = 1'-0"

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Drawing No.
A751
INTERIOR DETAILS

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GENERAL NOTES

1. INSTALL ALL PRODUCTS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. GROUT JOINTS AT ALL CERAMIC TILE FLOORS AND WALLS TO BE 1/8" U.N.O. GROUT SHALL BE SEALED AFTER SETTING TIME RECOMMENDED BY MANUFACTURER.
3. PROVIDE EXPANSION JOINTS AS RECOMMENDED BY MANUFACTURER WITH SEALANT TO MATCH GROUT JOINTS.
4. CONTRACTOR SHALL INQUIRE TO ARCHITECT FOR ANY AREAS WITH MISSING INFORMATION, OR WHERE FLOOR MATERIAL IS NOT INDICATED, PRIOR TO BIDDING. IN ALL CASES, ALL SPACES SHALL RECEIVE FINISHES.
5. THE ROOM FINISH KEY SCHEDULE DOES NOT INCLUDE EVERY ITEM WHICH MAY REQUIRE A COLOR ASSIGNMENT; THOSE ITEMS WILL HAVE COLOR SELECTIONS MADE THROUGH THE SUBMITTAL PROCESS, INCLUDING BUT NOT LIMITED TO, WOOD STAIN, VISUAL DISPLAY BOARDS, ACOUSTIC PANELS, ETC.
6. SEE SHEET A600 FOR CEILING TYPES.
7. SEE INTERIOR ELEVATIONS AND BUILDING SECTIONS FOR SPECIFIC LOCATIONS OF COLORS AND ADDITIONAL FINISH MATERIALS (E.G. TRIM, ETC.).
8. PROVIDE A TRANSITION STRIP AT ALL EDGES OF DISSIMILAR MATERIALS, E.G. TILE TO CARPET, TILE TO SEALED CONCRETE. COLOR AND PROFILE BY ARCHITECT. SEE COLOR SCHEDULE DOCUMENT, AND/OR SUBMIT PRODUCT SAMPLES FOR ARCHITECT'S SELECTION.
9. AT RESILIENT FLOORING, GRAIN DIRECTION SHALL MATCH EXISTING.
10. THE FOLLOWING ITEMS SHALL BE PAINTED TO MATCH ADJACENT WALLS, UNLESS NOTED OTHERWISE: AIR GRILLES, LOUVERS, ACCESS PANELS, ETC.
11. WALL FINISHES AS INDICATED ARE TO BE FULL HEIGHT (FLOOR TO CEILING) UNLESS NOTED OTHERWISE.
12. ALL INTERIOR SEALANT SHALL MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE. ALL JOINTS BETWEEN DISSIMILAR MATERIALS SHALL BE SEALED. SEAL ALL JOINTS AT COUNTERTOPS & BACKSPLASHES.
13. FOR BIDDING PURPOSES, FINISH PLANS INDICATE FLOOR PATTERNS THAT MAY BE REQUIRED. ACTUAL COLOR DESIGNATIONS AND FINAL MATERIAL SELECTIONS WILL BE ISSUED AS AN ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS AT A LATER DATE. REFERENCE SPECS FOR MATERIALS.
14. LARGE SCALE CHECKER PATTERNS, AND OTHER REPEATED PATTERNS MAY NOT SHOW COLOR NUMBER FOR EVERY PIECE OF THE PATTERN. CONTRACTOR SHALL COMPLETE THE PATTERN WITH APPROPRIATE COLOR(S) AS ESTABLISHED BY THE GIVEN PATTERN.
15. EXISTING EXPOSED COLUMNS TO BE PRIMED PER MANUFACTURER RECOMMENDATION AND PAINTED PT5

FINISH FLOOR LEGEND

ROOM NAME
101
CPT2
B2
P12

- ROOM NAME
- ROOM NUMBER
- FLOOR FINISH
- BASE FINISH
- WALL FINISH

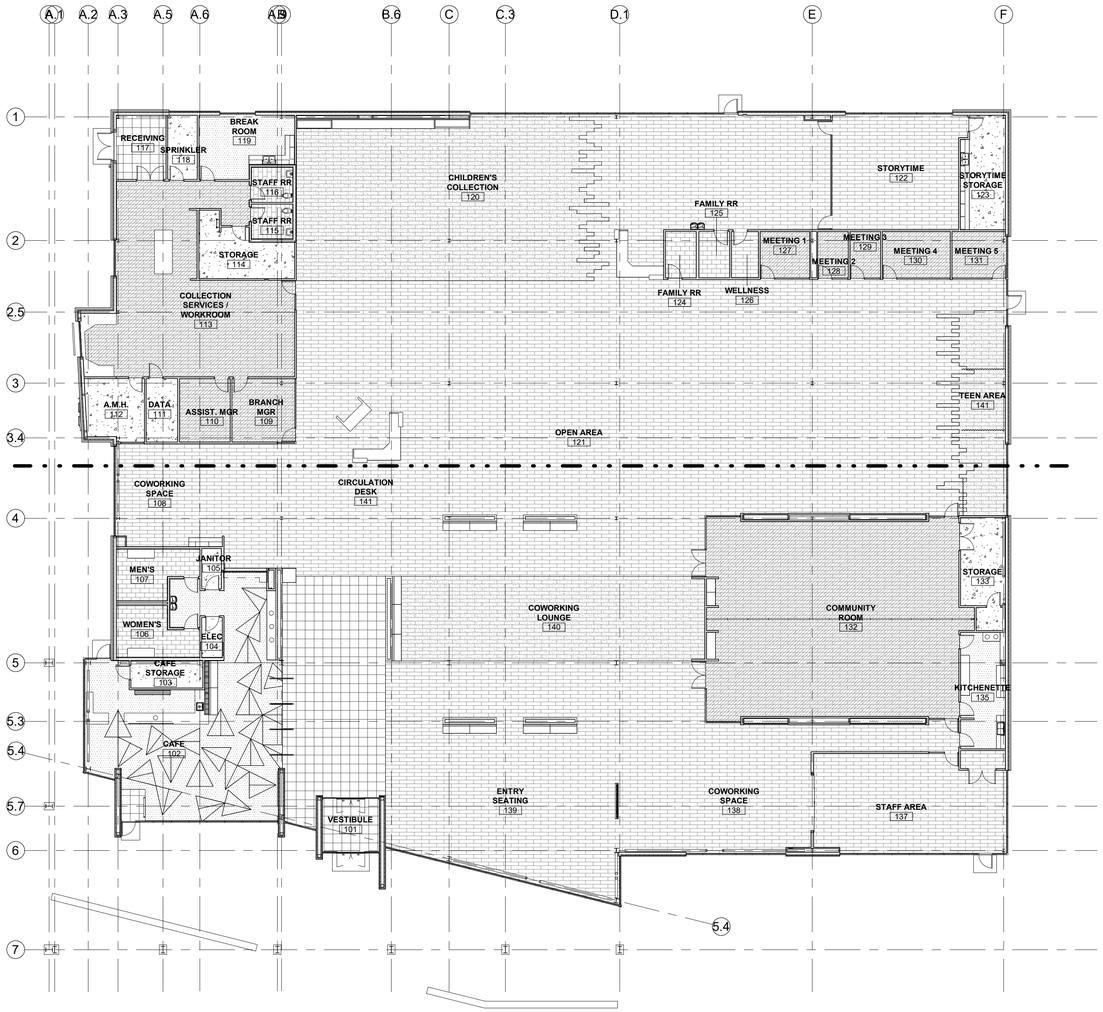
NOTE: SEE REFLECTED CEILING PLAN SHEET A600 FOR CEILING FINISHES.

- CARPET, CT1
- CARPET, CT2
- CARPET, CT3
- CARPET, CT4
- CARPET, CT5
- FLOOR TILE, FT1
- SEALED CONCRETE, SC
- POLISHED CONCRETE, PC

KEYNOTES

TRANSITION LEGEND

- (A) TILE TO CARPET: SCHLUTER SCHIENE SATIN ANO ALUM AE
- (B) CONCRETE TO CARPET: ROPPE REDUCER #26 CHARCOAL 123
- (C) TILE TO CONCRETE: SCHLUTER SCHIENE SATIN ANO ALUM AE



1 OVERALL FINISH PLAN
1/16" = 1'-0"

FINISH LEGEND

FLOOR:

CT1 CARPET TILE
MFG: INTERFACE, STYLE: WORLD WOVEN WEFT WW870, COLOR: CHARCOAL 105345, SIZE:10"X40" TILE, INSTALL: ASHLAR, NOTES: CUSIONBAC RENEW ADHESIVE W/ CUSHION

CT2 CARPET TILE
MFG: INTERFACE STYLE: WORLD WOVEN LOOM WW880, COLOR: CHARCOAL 105361, SIZE: 10"X40" TILE, INSTALL: ASHLAR, NOTES: CUSIONBAC RENEW ADHESIVE W/ CUSHIONNOTES: CUSIONBAC RENEW ADHESIVE W/ CUSHION

CT3 CARPET TILE
MFG: INTERFACE, STYLE: WORLD WOVEN DOBBY WW890, COLOR: CHARCOAL 105385, SIZE: 10"X40" TILE, INSTALL: ASHLAR, NOTES: CUSIONBAC RENEW ADHESIVE W/ CUSHION

CT4 CARPET TILE
MFG: INTERFACE, STYLE: STEP REPEAT, COLOR: IRON 104944, SIZE: 20"X20" TILE, INSTALL: ASHLAR

CT5 WALK OFF CARPET TILE
MFG: MATSINC, STYLE: ENTERPRISE TILE, COLOR:ANTHRACITE, SIZE: 20"X20" TILE, INSTALL: QUARTER TURN

FT1 FLOOR TILE
MFG: DALTILE, STYLE: PORTFOLIO PF09, COLOR: CHARCOAL, SIZE: 12" X 24", INSTALL: ASHLAR

PC POLISHED CONCRETE
NOTES: CLEAR

SC SEALED CONCRETE
NOTES: CLEAR

BASE:

RB1 RUBBER WALL BASE
MFG: ROPPE, STYLE: PINNACLE, COLOR: CHARCOAL 123, SIZE: 4"

TB1 TILE BASE
MFG: DALTILE, STYLE: PORTFOLIO PF09, COLOR: CHARCOAL, SIZE: 6"X24", INSTALL SCHLUTER-DILEX-AHK FOR COVE SHAPED PROFILE BETWEEN TILE BASE AND FLOOR TILE. ENSURE FINISHED EDGE OF TILE BASE MEETS WALL TILE

TB2 TILE BASE
MFG: DALTILE, STYLE: PORTFOLIO PF05, COLOR: ASH GRAY, SIZE: 6"X24", INSTALL SCHLUTER-DILEX-AHK FOR COVE SHAPED PROFILE BETWEEN TILE BASE AND FLOOR. ENSURE FINISHED EDGE OF TILE BASE MEETS WALL TILE

WALL:

FRP1 FIBER REINFORCED PANELS
MFG: MARLITE, STYLE: PEBBLED SURFACE, COLOR: 100 WHITE, SIZE: 48" WAINSCOATING

TW1 TACWALL
MFG: CAPRI CORK, STYLE: RE-TIRE, COLOR: SLEET, SIZE: 48"X LENGTH VERIFY WITH ELEVATION, NOTES: 6 MM. TACWALL TO RECEIVE CONTINUOUS FRAMING AROUND PERIMETER OF MATERIAL 'BONNELL ALUMINUM FUTURA TRANSITIONS: 350018 7358 BA (BUFFED ANODIZED). MITER ALL CORNERS, TYP (1)

WC1 WALL COVERING
MFG: MAHARAM, STYLE: GAIT 399964, COLOR: 015 LIPSTICK, NOTE: ACCENT WALL AT WATER FOUNTAIN

WC2 WALL COVERING
MFG: MAHARAM, STYLE: TETHER 399961, COLOR:005 ATOM, NOTE: ACCENT WALL AT MEETING ROOMS

WC3 WALL COVERING
MFG: NATIONAL WALLCOVERING, STYLE: LEVEL LINDSEY, COLOR: BOSS #L50601, NOTE: ACCENT WALL AT CHILDREN'S AREA (CONTACT LEXIE ANDERSON LEXIE.ANDERSON@NATIONALSOLUTIONS.COM) (1)

WT1 WALL TILE
MFG: DALTILE, STYLE: ANNAPOLIS, COLOR: AP10 SAIL MATTE, SIZE: 6"X16", PATTERN:HORIZONTAL ASHLAR, NOTES:

WT2 WALL TILE
MFG: ERGON, STYLE: TR3ND NEEDLE, COLOR: 30F88RB GREY, SIZE: 12"X12", PATTERN: STACKED HORIZONTALLY, NOTES: WALL TILE TO EXTEND TO THE FLOOR, NO TILE BASE AT THIS LOCATION (REF ELEVATIONS) INSTALL SCHLUTER-DILEX-AHK FOR COVE-SHAPED PROFILE BETWEEN WALL TILE AND FLOOR TILE.

WT3 WALL TILE
MFG: DALTILE, STYLE: ANNAPOLIS, COLOR: AP06 SAIL GLOSS, SIZE: 6"X16", PATTERN: VERTICAL ASHLAR, NOTES: WALL TILE TO MEET TILE BASE, REF ELEVATIONS

WT4 WALL TILE
MFG: DALTILE, STYLE: ANNAPOLIS, COLOR: AP12 BLACK MATTE, SIZE: 6"X16", PATTERN: HORIZONTAL ASHLAR, NOTES:

WT5 WALL TILE
MFG: DALTILE, STYLE: ANNAPOLIS, COLOR: AP09 BLACK GLOSS, SIZE: 6"X16", PATTERN: HORIZONTAL ASHLAR, NOTES:

PAINT:

PT1 PAINT
MFG: BENJAMIN MOORE, COLOR: SWISS COFFEE, NOTES: FLAT FINISH ON CEILING, EGGSHELL FINISH ON WALLS, SEMI GLOSS ON DOOR FRAMES

PT2 PAINT
MFG: BENJAMIN MOORE, COLOR: IRON MOUNTAIN, NOTES: EGGSHELL FINISH ON WALLS, SEMI GLOSS ON DOOR FRAMES

PT3 PAINT
MFG: BENJAMIN MOORE, COLOR: RAVISHING RED 2008-10, NOTES: EGGSHELL FINISH ON WALLS, SEMI GLOSS ON DOOR FRAMES

PT4 PAINT
MFG: BENJAMIN MOORE, COLOR: WEDGEWOOD GRAY HC-146, NOTES: EGGSHELL FINISH ON WALLS, SEMI GLOSS ON DOOR FRAMES

PT5 PAINT
MFG: BENJAMIN MOORE, COLOR: CAPE MAY COBBLESTONE 1474, NOTES: EGGSHELL FINISH ON WALLS

MISCELLANEOUS:

CS1 SOLID SURFACE
MFG: CAESER STONE, STYLE: CONCRETE, COLOR: 2003, NOTES: CIRCULATION DESK WORKSURFACE AND PARTIAL HEIGHT PARTITION LEDGE

CS2 SOLID SURFACE
MFG: CAESER STONE, STYLE: ORGANIC WHITE, COLOR: 4600, NOTES: CIRCULATION DESK TRANSACTION LEDGE

CS3 SOLID SURFACE
MFG: CAESER STONE, STYLE: SLEEK CONCRETE, COLOR: 4003, NOTES: LAVATORY SINK COUNTERTOP

CS4 SOLID SURFACE
MFG: LG HAUSYS, STYLE: BLACK GRANITE, COLOR:G031, NOTES: CAFE SERVERY COUNTER

DP1 COIL DRAPERY
MFG: CASCADE COIL DRAPER, STYLE: 5/16" 15 GA COLOR: SATIN BLACK

FB1 FABRIC UPHOLSTERY
MFG: MAHARAM, STYLE: DIVINA MELANGE 466150, COLOR: 193, NOTES: UPHOLSTERY TO RECEIVE ALTA FOOD + BEVERAGE FINISH, WORK LOUNGE BOOTH UPHOLSTERY

FB2 FABRIC UPHOLSTERY
MFG: STINSON, STYLE: DIDI, COLOR: 73 CARBON, NOTES: CAFE BOOTH UPHOLSTERY

GL1 FROSTED GLASS
MFG: SKYLINE GLASS, STYLE: OBSCURE, COLOR: WHITE OW1, NOTES: CAFE SNEEZE GUARD

PL1 PLASTIC LAMINATE
MFG: WILSONART, COLOR: STEEL MESH 4879-38, NOTES: FINE VELVET FINISH, MILLWORK VERTICAL SURFACE

PL2 PLASTIC LAMINATE
MFG: FORMICA, COLOR: COLORCORE 2 927C-58 FOLKSTONE, NOTES: MATTE FINISH, MILLWORK COUNTERTOP

PL3 PLASTIC LAMINATE
MFG: FORMICA COLOR: COLORCORE 2 909 BLACK, NOTES: MATTE FINISH, CAFE DISPLAY AND STORAGE MILLWORK

PL4 PLASTIC LAMINATE
MFG: FORMICA COLOR: BRUSHED BLACK ALUMINUM M4254, NOTES: BRUSHED FINISH, CAFE TOE KICK

WD1 WOOD VENEER
MFG: FC EXPORT HICKORY, DOOGE VENEERS LOG #1103317

WD2 WOOD TONGUE & GROVE, STYLE: EXPORT HICKORY, NOTES: 4" TO 6" WIDTHS, 3/4" THICKNESS, CLEAR FINISH

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JACKSON COUNTY

Architect of Record

STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.
A800
OVERALL FINISH PLAN

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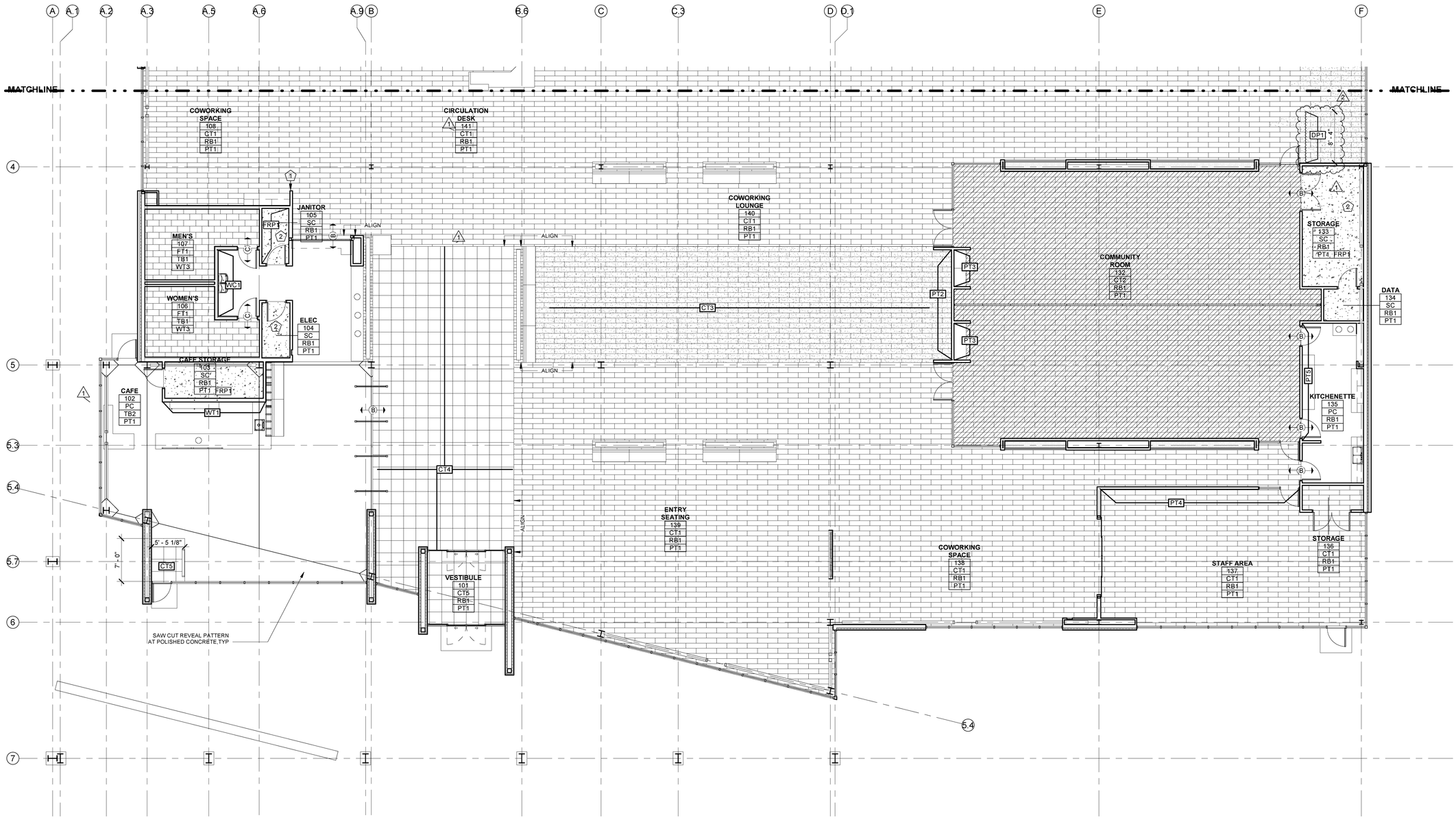
KEY NOTES

1	GC TO PROVIDE FULL HEIGHT INPRO STAINLESS STEEL SURFACE MOUNT WALL PROTECTOR. MOUNT WALL PROTECTOR DIRECTLY ABOVE RUBBER BASE.
2	EXTEND PARTITION PAINT FINISH 11'-0" AFF BEFORE TRANSITIONING TO BLACK PAINT TO MATCH DECK FINISH



1 FINISH PLAN - AREA A

1/8" = 1'-0"

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MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT

1 Michael John Heule, Architect MO A-5451

AREA A

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
2	ADDENDUM 02	01/20/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A801

FINISH PLAN - AREA A

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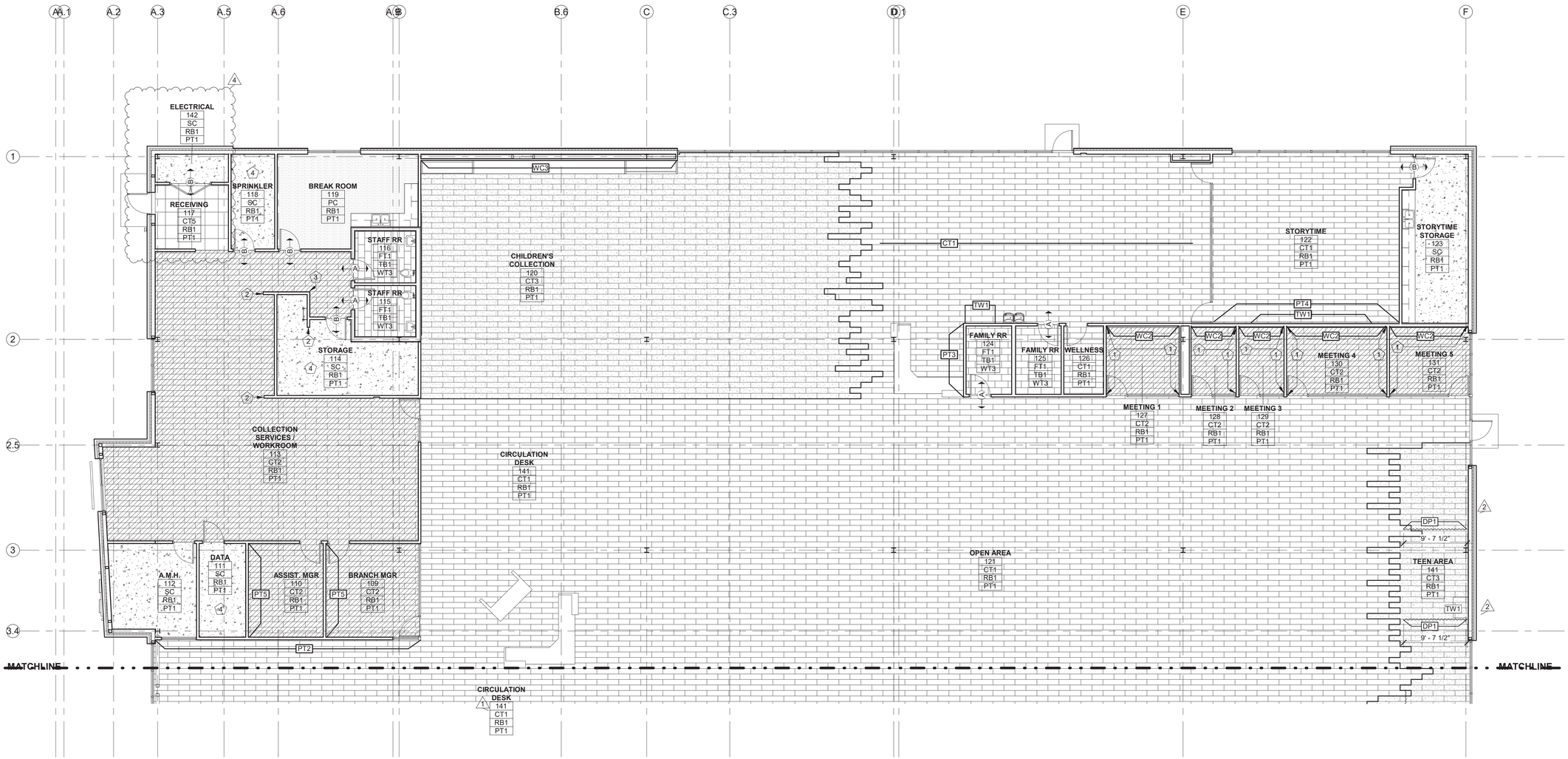
KEY NOTES

1	INSTALL CONTINUOUS LEXAN CLEAR WALL GUARD DX83. MOUNT AT 31" AFF TO BOTTOM OF WALL GUARD.
2	GC TO PROVIDE FULL HEIGHT INPRO STAINLESS STEEL SURFACE MOUNT WALL PROTECTOR. MOUNT WALL PROTECTOR DIRECTLY ABOVE RUBBER BASE.
3	GC TO PROVIDE FULL HEIGHT INPRO STAINLESS STEEL SURFACE MOUNT CORNER GUARD. MOUNT CORNER GUARD DIRECTLY ABOVE RUBBER BASE.
4	EXTEND PARTITION PAINT FINISH 11'-0" AFF BEFORE TRANSITIONING TO BLACK PAINT TO MATCH DECK FINISH



1 FINISH PLAN - AREA B

1/8" = 1'-0"

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MICHAEL JOHN HEULE
Architect
A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

AREA B

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
2	ADDENDUM 02	01/20/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A802

FINISH PLAN - AREA B

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1 OVERALL FLOOR PLAN

1/16" = 1'-0"

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MICHAEL JOHN HEULE
NUMBER A-5451
12/23/19
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A900

OVERALL FF&E PLAN

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KEYNOTES

1

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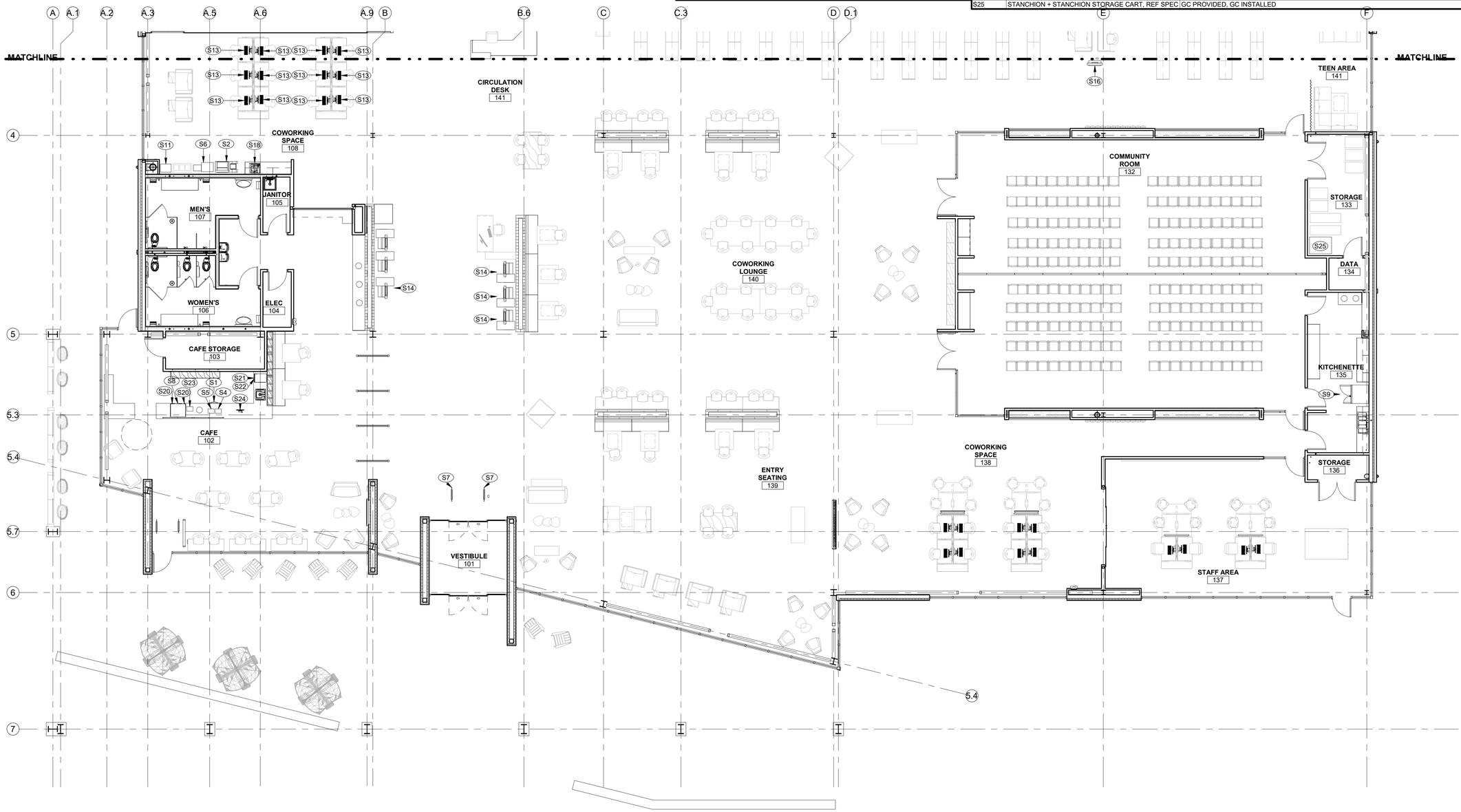
Type Mark	Description	Comments
S1	UNDERCOUNTER ICE MACHINE	HOSHIZAKI AM-50BAE-AD, GC PROVIDED, GC INSTALLED
S2	COPIER	OWNER PROVIDED, OWNER INSTALLED
S3	LAPTOP CART	OWNER PROVIDED, OWNER INSTALLED
S4	BLENDER	VITAMIX COMMERCIAL 062824, GC PROVIDED, GC INSTALLED
S5	TEA BREWER	OWNER PROVIDED, OWNER INSTALLED
S6	FAX MACHINE	OWNER PROVIDED, OWNER INSTALLED
S7	RFID SCANNER GATE	OWNER PROVIDED, OWNER INSTALLED
S8	ESPRESSO MACHINE	LA MARZOCCO GB5 2 GROUP FINISH:RAL 1012 ZITRONENGELB, GC PROVIDED, GC INSTALLED
S9	REFRIGERATOR	LG LFX25974, GC PROVIDED, GC INSTALLED
S10	LOCKERS	LYON LOCKER, PP5630 FOUR TIER 15x15x66, DOVE GRAY, GC PROVIDED AND INSTALLED
S11	SHRED BOX	OWNER PROVIDED, OWNER INSTALLED
S12	COFFEE MAKER	OWNER PROVIDED, OWNER INSTALLED
S13	PUBLIC COMPUTER	OWNER PROVIDED, OWNER INSTALLED
S14	SELF CHECK KIOSK	OWNER PROVIDED, OWNER INSTALLED
S15	WASTE RECEPTACLE	OWNER PROVIDED, OWNER INSTALLED
S16	SEARCH STATION TOUCH SCREEN	OWNER PROVIDED, OWNER INSTALLED
S17	AWE COMPUTER	OWNER PROVIDED, OWNER INSTALLED
S18	PUBLIC PRINTER	OWNER PROVIDED, OWNER INSTALLED
S19	STAFF PRINTER	OWNER PROVIDED, OWNER INSTALLED
S20	UNDERCOUNTER REFRIGERATOR	SUMMIT APPLIANCE AL54, GC PROVIDED, GC INSTALLED
S21	WATER/ICE DISPENSER	HOSHIZAKI DCM-270BAH-OS, GC PROVIDED, GC INSTALLED
S22	DISHWASHER	BOSCH SGX68U55UC, GC PROVIDED, GC INSTALLED
S23	ESPRESSO GRINDER	MAZZER MAJOR GRINDER, GC PROVIDED, GC INSTALLED
S24	POINT OF SALE	OWNER PROVIDED, OWNER INSTALLED
S25	STANCHION + STANCHION STORAGE CART, REF SPEC	GC PROVIDED, GC INSTALLED



1 FF&E PLAN - AREA A

1/8" = 1'-0"

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01/13/20

Michael John Heule, Architect MO A-5451

AREA A

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A901

FF&E PLAN - AREA A

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KEYNOTES

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S7	RFID SCANNER GATE	OWNER PROVIDED, OWNER INSTALLED
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S15	WASTE RECEPTACLE	OWNER PROVIDED, OWNER INSTALLED
S16	SEARCH STATION TOUCH SCREEN	OWNER PROVIDED, OWNER INSTALLED
S17	AWE COMPUTER	OWNER PROVIDED, OWNER INSTALLED
S18	PUBLIC PRINTER	OWNER PROVIDED, OWNER INSTALLED
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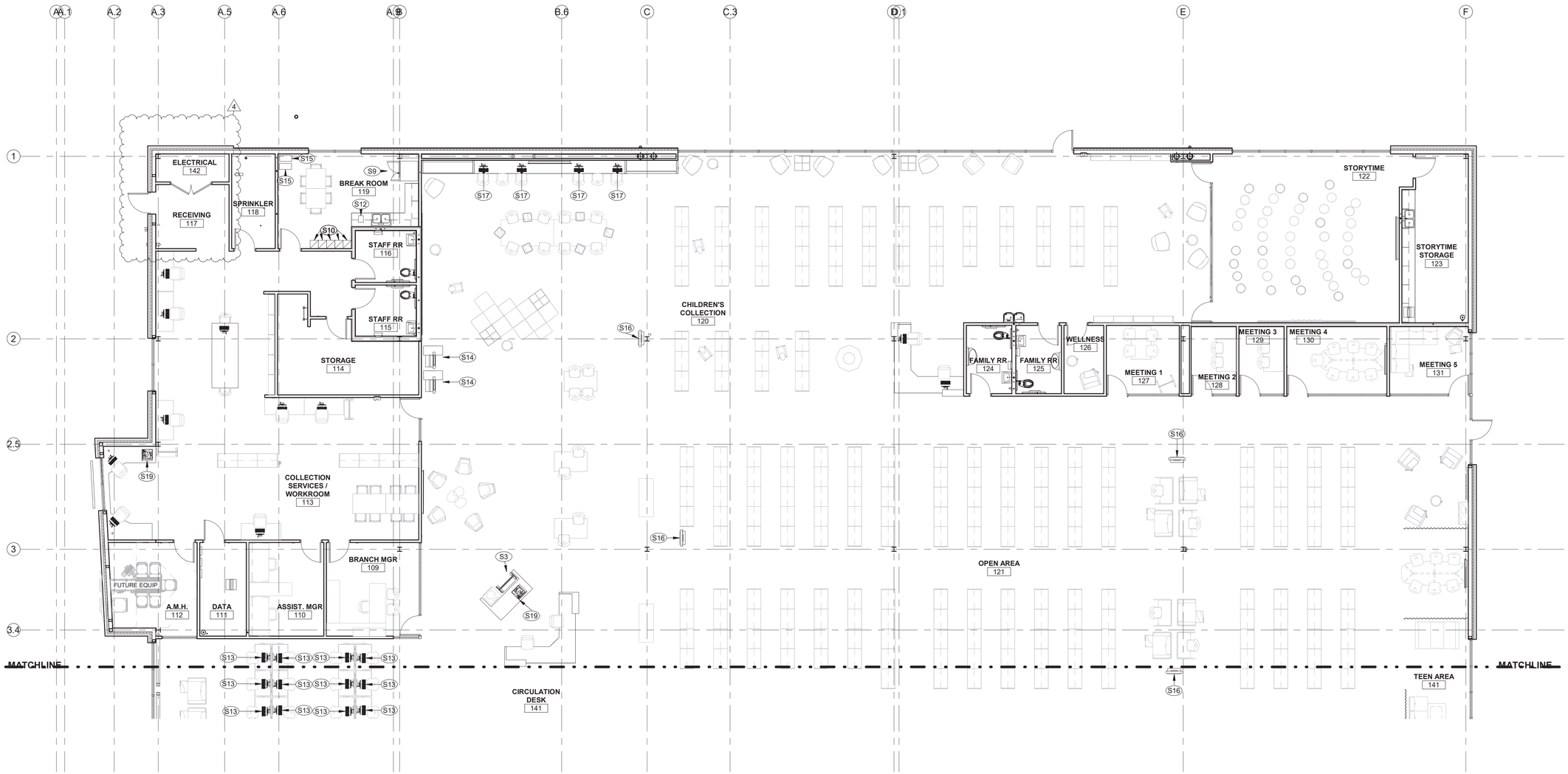
S25	STANCHION + STANCHION STORAGE CART, REF SPEC	GC PROVIDED, GC INSTALLED



1 FF&E PLAN - AREA B

1/8" = 1'-0"

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SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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1000 NE COLBERN ROAD
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JACKSON COUNTY

Architect of Record

STATE OF MISSOURI
MICHAEL JOHN HEULE
A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

AREA B

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
4	ASI 02	03/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

A902

FF&E PLAN - AREA B

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END PANEL + CANOPY LEGEND

EP-1
NEW 72" H x 25" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(51) TOTAL

EP-2
NEW 72" H x 12" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(2) INSTALLED BY MCPL

EP-3
NEW 60" H x 21" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(6) INSTALLED BY MCPL

EP-4
NEW 60" H X 25" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(14) TOTAL

EP-5
NEW 60" H X 21" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK.

(3) TOTAL

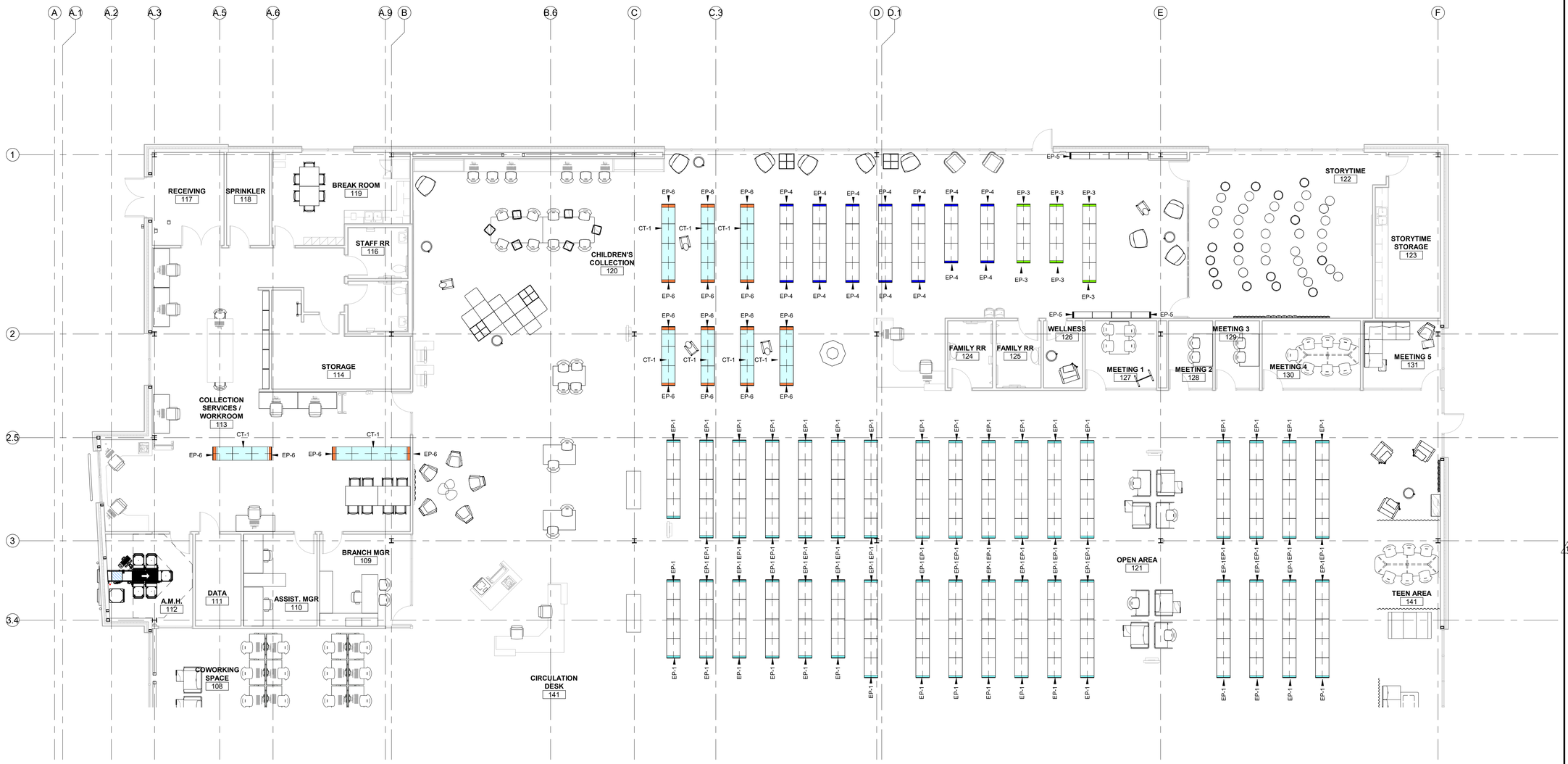
EP-6
NEW 42" H X 25" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(18) TOTAL

CT-1
NEW CANOPY TOP: CLAD IN FORMICA 8824-58 WHITE DROPS MATTE FINISH 1-1/2" THICK x VERIFY WIDTH AND LENGTH IN FIELD WITH OWNER SHELVING

GENERAL NOTES

1. **END PANEL VENDOR TO COORDINATE WITH OWNER PROVIDED SHELVING ON EXACT WIDTH AND HEIGHT PRIOR TO MANUFACTURING. COORDINATE WITH MOUNTING LOCATIONS OF THE SHELVING.**
2. ALL SHELVING TO BE INSTALLED BY OWNER AND OWNER VENDOR.
4. ALL NEW END PANELS AND CANOPY TOPS TO BE INSTALLED BY OWNER.
5. MCPL TO PREPARE ALL END PANELS FOR NEW SIGNAGE AND GRAPHICS STANDARDS
6. SHOP DRAWING TO BE PROVIDED TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
7. BRANCH LOCATION: 2240 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063



1 OVERALL SHELVING FLOOR PLAN
1/8" = 1'-0"

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AREA B

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.
F003
SHELVING END PANELS + CANOPIES

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BUILDING CODE AND STANDARDS

2018 INTERNATIONAL BUILDING CODE (IBC 2018) WITH STANDARDS AS REFERENCED IN IBC CHAPTER 35.

STRUCTURAL DESIGN LOADS:

	UNIFORM (PSF)	CONCENTRATED (LB)
DEAD LOAD - ACTUAL WEIGHT OF MATERIALS USED ADDING THE FOLLOWING		
ALLOWANCE FOR MEP	10	
ALLOWANCE FOR ROOFING SYSTEM	10	
FLOOR LIVE & MISC LOADS		
SLAB ON GRADE	100	2,000
LIBRARY - STACK ROOM	150	
SIDEWALKS	250	
CEILING	10	
PARTITION (LATERAL LOAD)	5	
RAILING (LATERAL LOAD AT TOP)	50 PLF	200
ROOF LIVE LOAD	20 PSF	
SNOW DESIGN DATA		
GROUND SNOW LOAD, P_G	20 PSF	
FLAT ROOF SNOW LOAD, P_F	20 PSF	
SNOW EXPOSURE FACOR, C_E	1.0	
SNOW LOAD IMPORTANCE FACTOR, I_S	1.1	
THERMAL FACTOR, C_T	1.0	
DRIFT SURCHARGE LOAD	30 PSF	
DRIFT WIDTH	7 FT	
WIND DESIGN DATA		
BASIC WIND SPEED, V_{ULT}/V_{ASD}	118 MPH/93 MPH	
RISK CATEGORY	III	
WIND EXPOSURE	C	

COMPONENTS AND CLADDING (ULT. PSF)

	10 SF	50 SF	100 SF
INTERIOR ROOF (ZONE 1)	-35.0 / +16.0	-32.9 / +16.0	-32.0 / +16.0
EDGE ROOF (ZONE 2)	-58.6 / +32.0	-44.2 / +28.7	-37.9 / +27.3
CORNER ROOF (ZONE 3)	-58.6 / +32.0	-44.2 / +28.7	-37.9 / +27.3
INTERIOR WALL (ZONE 4)	-34.7 / +32.0	-31.4 / +28.7	-33.2 / +27.3
CORNER WALL (ZONE 5)	-42.7 / +32.0	-36.1 / +28.7	-33.2 / +27.3
OVERHANG (ZONES 1 AND 2)	-50.4	-48.3	-47.4
OVERHANG (ZONE 3)	-50.4	-48.3	-47.4
PARAPET	-64.0 / +80.0	-54.1 / +62.2	-49.9 / -54.5
END ZONE DISTANCE (a)	10 FT		

EARTHQUAKE DESIGN DATA	
RISK CATEGORY	III
SEISMIC IMPORTANCE FACTOR	1.25
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENTS	S_S = 0.114 g; S_1 = 0.067 g
DESIGN SPECTRAL RESPONSE COEFF'S	S_{DS} = 0.122; S_{D1} = 0.107
SEISMIC DESIGN CATEGORY	B
SEISMIC FORCE-RESISTING SYSTEM	STRUCTURAL STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR	V_U = 20 K
SEISMIC RESPONSE COEFFICIENT	C_S = 0.051
RESPONSE MODIFICATION COEFFICIENT	R = 3
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
GEOTECHNICAL DESIGN DATA	
ALLOWABLE SOIL BEARING PRESSURE	2,000 PSF

MATERIAL DATA:

CONCRETE & REINFORCING	
CONCRETE WEIGHT	ALL CONCRETE SHALL BE NORMAL-WEIGHT UNLESS NOTED OTHERWISE.
C.I.P. CONCRETE STRENGTH (MIN f'_c at 28 days)	4,000 PSI (AE) - UNREINFORCED EXTERIOR FLATWORK 4,000 PSI (AE) - REINFORCED EXTERIOR FLATWORK 4,000 PSI (AE) - EXTERIOR FOOTINGS AND FOUNDATION WALLS 8,000 PSI - GROUT FOR BASE PLATE/BEARING PLATES 4,000 PSI INTERIOR SLABS ON GRADE
MAX WATER/CEMENT RATIO	0.45 UNLESS OTHERWISE NOTED
CEMENT TYPE	PORTLAND TYPE I/II - ASTM C150
AGGREGATES	REGULAR WEIGHT HARDROCK TYPE - ASTM C33
ADMIXTURES	ASTM C494
AIR-ENTRAINMENT	ASTM C260
REINFORCING STEEL	ASTM A615, GRADE 60, DEFORMED
WELDABLE REINFORCING STEEL	ASTM A706, GRADE 60, DEFORMED
WELDED WIRE REINFORCEMENT	ASTM A1064, PROVIDE SHEET-TYPE; ROLL-TYPE IS NOT ACCEPTABLE
PREFORMED EXPANSION JOINT(1/2")	ASTM D1751
STEEL	
W SHAPES, WT SHAPES	ASTM A992
PLATES	ASTM A572, GRADE 50
C AND MC SHAPES, ANGLES	ASTM A529, GRADE 50
HSS SQUARE AND RECTANGULAR TUBES	ASTM A500 GRADE C, F_y = 50 ksi
ANCHOR RODS	ASTM F1554, GRADE 55
WASHERS FOR ANCHOR RODS	ASTM F844
HIGH STRENGTH BOLTS	ASTM F3125, GRADE 325 TYPE 1
WASHERS FOR HIGH STRENGTH BOLTS	ASTM F436
HEAVY HEX NUTS	ASTM A563
STICK ELECTRODES	AWS CLASS E70XX AWS CLASS E6010 OR E6011 (GALV. SURFACES)
METAL DECKING	ASTM A1008 OR ASTM A653

MASONRY

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TMS 602/ACI 530.1/ASCE 6.

MASONRY STRENGTH (f'm AT 28 DAYS)	1,900 PSI
CONCRETE MASONRY UNITS (CMU)	ASTM C90 NORMAL WEIGHT
CMU STRENGTH	2,350 PSI (BASED ON NET AREA)
MORTAR TYPE	ASTM C270, TYPE S BELOW GRADE, TYPE N ABOVE GRADE , PROPORTION METHOD
GROUT TYPE	ASTM C476 - MAX. AGGREGATE SIZE = 3/8"
GROUT STRENGTH (AT 28 DAYS)	2,000 PSI
HORIZONTAL WIRE REINFORCING	ASTM A951, LADDER-TYPE AT 16" O.C VERTICALLY IN 10 FT. LENGTHS 9 GAGE WIRE PER ASTM A1064 INTERIOR WALLS: MILL GALVANIZE PER EXTERIOR WALLS: HOT DIP GALVANIZED PER ASTM A 153 CLASS B-2
CONTINUOUS BOND BEAM REINFORCING	(2) #4 BARS CONTINUOUS
CONTRACTION JOINT KEY	RUBBER SHEAR KEY WITH DUROMETER HARDNESS OF 80 MIN PVC SHEAR KEY WITH DUROMETER HARDNESS OF 85 MIN

GENERAL NOTES

1. THE STRUCTURAL DRAWINGS ARE TO BE COORDINATED AND USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
2. OLSSON ASSOCIATES SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CHARGE OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. OLSSON ASSOCIATES SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.
5. THE CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS, ELEVATIONS, AND MEMBER SIZES AS SHOWN ON THE CONTRACT DRAWINGS FOR THE EXISTING CONSTRUCTION PRIOR TO THE DETAILING OR FABRICATION OF ANY NEW STRUCTURAL ELEMENT. THE CONTRACTOR SHALL DOCUMENT ANY CONSTRUCTION-RELATED DISCREPANCIES. PRIOR TO THE SCHEDULED START OF ANY DETAILING OR FABRICATION, THE CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
6. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND/OR SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING EXCAVATION AND FOUNDATION CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES IS THE RESPONSIBILITY OF THE CONTRACTOR.
7. NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO, REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
8. NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER.
9. PROVIDE SLEEVE LAYOUTS FOR ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS FOR ALL TRADES. LAYOUTS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
10. ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM FLOORS OR THE ROOF SHALL BE SUPPORTED BY BEAMS DESIGNATED FOR SUCH PURPOSE ONLY. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY STRUCTURAL ENGINEER PRIOR TO ERECTION OF EQUIPMENT.
11. ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED. SEE THE ARCHITECTURAL/GENERAL ARRANGEMENT DRAWINGS FOR DETAILS AND DIMENSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
12. MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE CAPACITY OF THE CONSTRUCTION.
13. THE SPECS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION, AND INSPECTION REQUIREMENTS FOR THE PROJECT. ADDITIONAL, MORE STRINGENT REQUIREMENTS MAY BE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS INDICATED ON THIS SHEET AND THOSE IN THE PROJECT SPECS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
14. FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURBS, OPENINGS, AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
15. EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS, AND INSERTS, SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
16. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
17. THE STEEL FRAMING COMPONENTS SHOWN RELY ON BUILDING COMPONENTS OTHER THAN STRUCTURAL STEEL FOR FINAL STRUCTURAL STABILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ANY AND ALL TEMPORARY BRACING AND SHORING AGAINST WIND, ERECTION AND ALL CONSTRUCTION LOADS UNTIL ALL ELEMENTS, MEMBERS, AND CONNECTIONS (FLOORS, ROOF, SHEAR WALLS, ETC), AS SHOWN ON THE CONTRACT DOCUMENTS ARE COMPLETELY INSTALLED. THE STRUCTURAL MEMBERS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNED FOR THE ANTICIPATED LOADS THAT THE STRUCTURE WILL BE SUBJECTED TO ONLY AFTER ALL STRUCTURAL ELEMENTS ARE IN PLACE AND FINAL CONNECTIONS ARE COMPLETE.

SHOP DRAWINGS

1. ALL SHOP DRAWING SUBMITTALS SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR IN THESE NOTES.
2. SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER.
3. THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
4. THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION.
5. SHOP SUBMITTALS SHALL BE SUBMITTED IN A DIGITAL FORMAT. MULTIPLE COPIES OF DRAWINGS WILL NOT BE MARKED-UP WITH REVIEW COMMENTS.
6. THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW.
7. ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE "FOR CONSTRUCTION" DESIGN DOCUMENTS OF THE PROJECT SHALL BE BOLDLY NOTED ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL.
8. ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE BUBBLED.

EARTHWORK

1. REFERENCE THE GEOTECHNICAL INVESTIGATION REPORT 018-0330.182 PREPARED BY OLSSON ASSOCIATES, DATED 1-7-2019. CONTRACTOR SHALL OBTAIN A COPY OF SAID REPORT AND ANY AVAILABLE ADDENDA OR SUPPLEMENTS AND FOLLOW ALL REQUIREMENTS SPECIFIED THEREIN.
2. SHALLOW FOUNDATIONS: CONTINUOUS WALL FOOTINGS, ISOLATED SPREAD FOOTINGS, AND GROUND SUPPORTED MAT FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON FIRM NATIVE SOILS OR COMPACTED ENGINEERED FILL CAPABLE OF SUPPORTING A 2,000 PSF NET ALLOWABLE BEARING PRESSURE. REFER TO THE SOILS REPORT FOR SPECIFIC SOIL PREPARATION REQUIREMENTS.
3. GENERAL CONTRACTOR SHALL COMPACT EXPOSED FOOTING BOTTOMS AND EXPOSED AGGREGATE PIER SURFACES WITH HAND-OPERATED, MECHANICAL COMPACTION EQUIPMENT AFTER EACH FOOTING EXCAVATIONS IS COMPLETED AND PRIOR TO PLACING STEEL OR CONCRETE.
4. PER THE ABOVE REFERENCED REPORT, THE LATERAL EARTH PRESSURES ARE AS FOLLOWS:
   A. DRAINED ACTIVE EARTH PRESSURE: 50 PSF/FOOT
   B. DRAINED AT-REST EARTH PRESSURE: 70 PSF/FOOT
   C. PASSIVE EARTH PRESSURE: 295 PSF/FOOT
5. ALL UNSUITABLE SOILS SHALL BE REMOVED WITHIN THE EXCAVATION AREA OF THE FOUNDATIONS. ALL FOOTINGS SHALL BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
6. FOUNDATIONS EXPOSED TO FROST SHALL BE PLACED SUCH THAT THE BOTTOM OF FOUNDATION IS AT LEAST 36" BELOW THE ADJACENT FINISHED GRADE.
7. SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE OWNER, ARCHITECT, AND STRUCTURAL ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
8. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE.
9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
10. RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES, OTHER THAN THOSE INTERFERENCES SHOWN OR INDICATED ON THE CIVIL CONSTRUCTION DOCUMENTS, ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
11. THE CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS AND THE SUBSURFACE SOILS EXPLORATION REPORT AND ESTABLISH SPECIFIC "CONSTRUCTION PROCEDURES AND SEQUENCES" FOR THE EXCAVATION, COMPACTION, FILL, AND INSTALLATION OF THE NEW BUILDING FOUNDATION. SUBMIT THESE FOR REVIEW TO THE OWNER'S SOIL TESTING LABORATORY, OWNER'S REPRESENTATIVE, AND STRUCTURAL ENGINEER.
12. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE PERMANENT BELOW-GRADE LATERAL BRACING SYSTEM IS IN PLACE AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
13. ALL SLABS-ON-GRADE SHALL BE PLACED OVER A LOW PERMEANCE VAPOR BARRIER, 15 MIL MINIMUM THICKNESS, OVER A BASE/SUBBASE AS SPECIFIED BY THE GEOTECHNICAL ENGINEER FOR THE PROJECT. EXISTING SUBBASE WILL BE COMPACTED IN PLACE OR WILL BE CUT OUT AND REPLACED WITH AN ENGINEERED FILL AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
14. FLOWABLE FILL FOR USE AS FOUNDATION SUPPORT IS DEFINED AS CONTROLLED LOW STRENGTH MATERIAL (CLSM)
   A. FLOWABLE FILL IN NOT INTENDED TO BE EXCAVATABLE IN THE FUTURE.
   B. PROVIDE CONCRETE CONTRACTOR'S STANDARD MIX FOR FLOWABLE FILL THAT MEETS THE FOLLOWING REQUIREMENTS:
      a. CONFORM TO THE RECOMMENDATIONS OF ACI 229R-99.
      b. 28 DAY MINIMUM COMPRESSIVE STRENGTHS OF 100PSI.
      c. MIXTURE SHALL FLOW INTO PLACE AND CONSOLIDATE DUE TO ITS FLUIDITY WITHOUT VIBRATION OR PUDDLING ACTION.
      d. LIMIT SUBSIDENCE OF FLOWABLE FILL TO 1/8" PER FOOT OF DEPTH
      e. CURING PROCEDURES ARE NOT REQUIRED, BUT PROTECT FROM FREEZING UNTIL MIX HAS HARDENED.
15. REFER TO THE TESTING AND INSPECTION SECTION OF THESE NOTES FOR THE FOUNDATION TESTING AND INSPECTION REQUIREMENTS.

METAL DECK

1. TYPICAL ROOF DECK:
   A. 3" - 20 GAGE TYPE N DECK CONFIRMING TO SDI REQUIREMENTS WITH A MINIUM YIELD STRENGTH OF 40 KSI, UNLESS OTHERWISE NOTED.
      a. WELD OR FASTN DECK TO ALL STEEL SUPPORTS, EDGE MEMBERS, OPENING FRAMES, ETC, WITH 5/8" PUDDLE WELDS . FASTEN SIDELAPS WITH #10 TEK SCREWS, MINIMUM.
      b. ATTACHMENT:
         • ATTACH DECK TO STEEL SUPPORTS IN A 24/4 PATTERN.
         • PROVIDE (10) SIDELAP FASTENERS PER SPAN
         • AT CONTRACTORS OPTION PROVIDE ALTERNATE ATTACHMENT THAT ACHIEVES 527 PLF CAPACITY.
      c. FASTEN DECK AT 6" ON CENTER AT ALL BUILDING PERIMETER SUPPORTS.
      d. PROVIDE FILLER SHEETS, AS REQUIRED, TO ENSURE ATTACHMENT IS MADE TO ALL PERIMETER SUPPORTS.
      e. ALL JOINTS SHALL BE MADE OVER SUPPORTING MEMBERS ONLY AND DECK SPANS SHALL BE CONTINUOUS OVER A MINIMUM OR THREE SPANS.
   B. 1 1/2" - 20 GAGE TYPE B DECK CONFIRMING TO SDI REQUIREMENTS WITH A MINIUM YIELD STRENGTH OF 33 KSI, UNLESS OTHERWISE NOTED.
      a. WELD OR FASTN DECK TO ALL STEEL SUPPORTS, EDGE MEMBERS, OPENING FRAMES, ETC, WITH 5/8" PUDDLE WELDS . FASTEN SIDELAPS WITH #10 TEK SCREWS, MINIMUM.
      b. ATTACHMENT:
         • ATTACH DECK TO STEEL SUPPORTS IN A 36/4 PATTERN.
         • PROVIDE (4) SIDELAP FASTENERS PER SPAN
         • AT CONTRACTORS OPTION PROVIDE ALTERNATE ATTACHMENT THAT ACHIEVES 527 PLF CAPACITY.
      c. FASTEN DECK AT 6" ON CENTER AT ALL BUILDING PERIMETER SUPPORTS.
      d. PROVIDE FILLER SHEETS, AS REQUIRED, TO ENSURE ATTACHMENT IS MADE TO ALL PERIMETER SUPPORTS.
   C. ALL JOINTS SHALL BE MADE OVER SUPPORTING MEMBERS ONLY ANID DECK SPANS SHALL BE CONTINUOUS OVER A MINIMUM OR THREE SPANS.
2. METAL DECK SHALL HAVE A MINIMUM 1 1/2" END BEARING AT SUPPORTS OR AS REQUIRED BY MANUFACTURER.
3. METAL DECK MANUFACTURER SHALL PROVIDE POUR STOPS, COLUMN CLOSURES, END CLOSURES, COVER PLATES, GIRDER FILLERS, AND ALL OTHER ACCESSORIES AS REQUIRED BY THE SDI TO COMPLETE THE WORK, AND SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE PROJECT ENGINEER.
4. FILLER SHEETS SHALL BE PROVIDED AT DECK SIDELAP ON EDGE ANGLE LOCATIONS AS REQUIRED BY THE DECK LAYOUT TO ENSURE THAT A "LOW HAT" BEARS ON THE ANGLE AND SHALL BE WELDED TO THE ANGLE AND SCREWED TO THE ADJACENT DECK UNIT AT 6" ON CENTER.
5. ALL OPENINGS IN METAL ROOF DECK LARGER THAN 6" AND LESS THAN OR EQUAL TO 12" SHALL BE REINFORCED WITH AN 18 GAGE GALVANIZED FLAT PLATE ATTACHED TO DECK AT EACH CORNER AND 6" MAXIMUM CENTERS WITH 5/8" PUDDLE WELDS OR SHEET METAL SCREWS.
6. ALL OPENINGS IN METAL ROOF DECK LARGER THAN 12" IN ANY DIRECTION SHALL BE REINFORCED WITH L6X6X3/8 ANGLES ON ALL SIDES SPANNING TO THE NEAREST STRUCTURAL MEMBERS, UNLESS DETAILED OTHERWISE.
7. FLOOR OR ROOF OPENINGS WIDER THAN 2'-0" IN THE DIRECTION PERPENDICULAR TO DECK SPAN SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SEE MECHANICAL/ELECTRICAL DRAWINGS FOR OPENINGS IN ADDITION TO THOSE SHOWN ON FRAMING PLANS.
8. WELD OR FASTEN DECK TO ALL SUPPORTS, EDGE MEMBERS, OPENING FRAMES, ETC, WITH 5/8" PUDDLE WELDS OR AN APPROVED MECHANICAL FASTENER. FASTEN SIDELAPS WITH #10 TEK SCREWS, MINIMUM.

STRUCTURAL CONCRETE

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF:
   A. ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
   B. ACI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
   C. ACI 304 - "ACI MANUAL OF CONCRETE INSPECTION"
   D. ACI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
   E. ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
   F. ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   G. ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
2. CONCRETE MIX FOR INTERIOR CONCRETE SLABS-ON-GRADE SHALL ADHERE TO THE FOLLOWING CRITERIA:
   A. FLY ASH MAY REPLACE 15% OF PORTLAND CEMENT MAXIMUM.
      A. DO NOT USE POZZOLANS IN MIXES FOR FINISHED FLOOR SLABS.
   B. AGGREGATE SHALL BE WELL GRADED WITH 1-1/2" MAXIMUM DIAMETER.
   C. THE MIX SHALL CONTAIN NO ADMIXTURES THAT EXACERBATE SHRINKAGE.
   D. CONCRETE SLUMP SHALL BE 4" MAXIMUM AT THE POINT OF PLACEMENT.
3. FLY ASH MAY REPLACE 25% OF PORTLAND CEMENT MAXIMUM IN STRUCTURAL SLABS SHALL
4. CURE SPECIFIC CONCRETE ELEMENTS AS INDICATED BELOW:
   A SLAB-ON-GRADE: MOISTURE-RETAINING COVER CURING.
   B. STRUCTURAL SLABS: MOISTURE-RETAINING COVER CURING.
5. LABORATORY TEST REPORTS OR MATERIAL CERTIFICATES FOR CONCRETE MATERIALS AND MIX DESIGN TEST DATA, IN CONFORMANCE WITH ACI STANDARDS, SHALL BE SUBMITTED FOR REVIEW FOR EACH TYPE OF CONCRETE TO BE USED. EACH SUBMITTED MIX DESIGN SHALL IDENTIFY THE APPLICATION FOR WHICH THE MIX WILL BE USED.
6. THE CONTRACTOR SHALL SUBMIT CHECKED, DETAILED REINFORCEMENT SHOP DRAWINGS SHOWING THE LOCATIONS AND DETAILING OF ALL FOOTINGS, WALLS, PIERS, BEAMS, COLUMNS, SLABS, CONSTRUCTION JOINTS, CONTROL JOINTS, ETC, PRIOR TO FABRICATION. DETAILS SHALL INCLUDE BAR SIZES, LAPS, SPACING, AND PLACEMENT.
7. WELDED WIRE FABRIC SHALL BE LAPPED TWO PANELS AT EDGES AND ENDS, AND TIED SECURELY.
8. THE MINIMUM CONCRETE COVER FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
   A. CONCRETE CAST AGAINST/PERMANENTLY EXPOSED TO EARTH: 3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      a. NO 6 THROUGH NO 18 BARS 2"
      b. NO 5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2"
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      a. SLABS, WALLS, JOISTS:
         • NO 14 AND NO 18 BARS 1 1/2"
         • NO. 11 BAR AND SMALLER 3/4"
      b. BEAMS, COLUMNS:
         • PRIMARY REINFORCEMENT 1 1/2"
      c. TIES, STIRRUPS, SPIRALS 1 1/2"
9. PROVIDE LAP SPLICES AS INDICATED BELOW UNLESS OTHERWISE NOTED IN THE DRAWINGS.

BAR SIZE	SPLICE LENGTH TOP BARS*	SPLICE LENGTH OTHER BARS
#3	24"	19"
#4	32"	25"
#5	40"	31"
#6	48"	37"
#7	70"	54"
#8	80"	62"
#9	90"	69"
#10	76"	77"

*TOP BAR CONDITION OCCURS WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE SPLICE.

10. ALL HOOKS SHALL BE "STANDARD" PER ACI SPECIFICATIONS.
11. CONTINUOUS TOP AND BOTTOM BARS SHALL BE SPLICED AS FOLLOWS:
    A. TOP BARS: AT MID SPAN
    B. BOTTOM BARS: CENTERED OVER SUPPORT
12. MECHANICAL COUPLERS CAPABLE OF SUSTAINING 125% OF THE BAR ULTIMATE TENSILE CAPACITY MAY BE USED IN LIEU OF LAP SPLICES.
13. CORNER BARS MATCHING HORIZONTAL BARS SHALL BE PROVIDED AT ALL WALL CORNERS AND INTERSECTIONS.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES".
2. ALL WELDING SHALL BE PERFORMED BY CERTIFIED/QUALIFIED WELDERS AND SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
3. ALL BOLTED STEEL CONNECTIONS SHALL UTILIZE HIGH STRENGTH BOLTS IN BEARING-TYPE CONNECTIONS, UNLESS OTHERWISE NOTED. TENSION-CONTROLLED BOLTS (T/C BOLTS) MAY BE USED AT THE ERECTOR'S DISCRETION.
4. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURAL DRAWINGS.
5. ALL STEEL INDICATED ON THE ARCHITECTURAL DRAWINGS TO BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO THE AESS REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE.

OPEN-WEB STEEL JOISTS

1. ALL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
2. JOIST SIZES INDICATED ON PLANS ARE MINIMUMS. JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A REGISTERED ENGINEER FOR ALL JOISTS, EXCEPT PARALLEL CHORD JOISTS WITH UNIFORM LOADS AND CONTINUOUSLY SUPPORTED COMPRESSION CHORDS PER SJI STANDARD LOAD TABLES. JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A REGISTERED ENGINEER FOR ALL JOIST GIRDERS. CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS.
   A. LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO: SPAN/360.
   B. TOTAL LOAD DEFLECTIONS SHALL BE LIMITED TO: SPAN/240.
   C. ALL JOISTS AND JOIST GIRDERS SHALL BE CAMBERED FOR THE DESIGN DEAD LOAD, UNLESS OTHERWISE NOTED.
   D. MANUFACTURER SHALL ADD ADDITIONAL WEB MEMBERS AS REQUIRED AND ADJUST CHORD AND WEB SIZES ACCORDINGLY, BUT SHALL NOT ALTER DEPTH OF JOISTS AND JOIST

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES

INSPECTION ITEM REQUIRED	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	CODE REFERENCE	REMARKS
GENERAL				
CONDUCT WEEKLY VISUAL OBSERVATIONS OF THE STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AND PREPARE WEEKLY REPORTS OF OBSERVATIONS DESCRIBING WORK PROGRESS AND NON-CONFORMING ITEMS		X		
EARTHWORK				
VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		ALL FOOTING AND PILE CAP EXCAVATIONS SHALL BE OBSERVED AND APPROVED PRIOR TO CONCRETE PLACEMENT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		TEST EACH SOURCE
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
OBSERVE PROOF ROLLING OF SUBGRADE PRIOR TO FILL PLACEMENT				
TESTING AND EVALUATION OF IN-PLACE DENSITY OF COMPACTED FILL AS WORK PROGRESSES		X		ONE DENSITY TEST FOR EACH LIFT, DAYS OPERATION, OR 5000 SQ. FT. OF FILL AREA
INSPECT VAPOR RETARDER FOR CONFORMANCE WITH MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS		X		
METAL DECK				
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL, PROPERTIES, AND BASE METAL THICKNESS	X			
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X			
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		X		
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILLS CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS		X		
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	X			
OBSERVE WELDING PROCEDURE SPECIFICATIONS (WPS), MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES, MATERIAL IDENTIFICATION (TYPE/GRADE), AND WELDING EQUIPMENT TO BE USED.		X		
OBSERVE USE OF QUALIFIED WELDERS, CONTROL AND HANDLING OF WELDING CONSUMABLES, ENVIRONMENTS CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE), AND WPS FOLLOWED		X		
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS		X		
VERIFY WELDS MEET VISUAL INSPECTION CRITERIA		X		
VERIFY REPAIR ACTIVITES AS APPLICABLE		X		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X			
OBSERVE MANUFACTURER INSTALLATION INSTRUCTIONS, PROPER TOOLS, AND PROPER STORAGE FOR MECHANICAL FASTENERS		X		
VERIFY FASTENERS POSITIONED AS REQUIRED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS		X		
VERIFY SPACING, TYPE, AND INSTALLATION OF SUPPORT, SIDELAP, AND PERIMETER FASTENERS		X		
VERIFY REPAIR ACTIVITES AS APPLICABLE		X		
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X			

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES

INSPECTION ITEM REQUIRED	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	CODE REFERENCE	REMARKS
CONCRETE & REINFORCING STEEL				
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT PRIOR TO CLOSING OF FORMS AND ARRIVAL OF CONCRETE TO THE JOB-SITE		X	IBC: 1908.4 ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	
REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	AWS D1.4 ACI 318: 26.6.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X		
c. INSPECT ALL OTHER WELDS	X			
OBSERVE & VERIFY PLACEMENT OF EMBEDDED BOLTS & RODS PRIOR TO CONCRETE PLACEMENT	X			
INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY UP UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDEDE, SPECIAL INSPETCION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		X	ACI 318: 17.8.2	
VERIFY USE OF REQUIRED MIX DESIGN		X	IBC: 1904.1, 1904.2, 1908.2, 1908.3 ACI 318: CH. 19, 26.4.3, 26.4.4	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		IBC: 1908.10 ASTM: C172, C31 ACI 318: 26.4, 26.12	ADDITIONAL CYLINDERS SHALL BE MADE AS NEEDED FOR EARLY FORM REMOVAL. NOTE: TWO 6X12 OR 4X8 CYLINDERS ARE REQUIRED FOR AN ACCEPTABLE TEST.
SAMPLE CONCRETE SPECIMENS FOR STRENGTH TESTS TO BE PERFORMED IN LAB. A MINIMUM OF FIVE (5) CYLINDERS SHALL BE MADE. TEST TWO AT 7 DAYS AND TWO AT 28 DAYS. THE 5TH CYLINDER SHALL BE HELD IN RESERVE	X			OBTAIN ONE COMPOSITE SAMPLE FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF OF EACH CONCRETE MIX PLACED EACH DAY. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE STRENGTH TESTS FOR EACH CONCRETE MIX, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
PERFORM CONCRETE STRENGTH TESTING		X		
MAINTAIN A SPREADSHEET SHOWING DATE, SEQUENTIAL ORDER OF STRENGTH TEST RESULTS, AND INDICATE RUNNING AVERAGE	X		ACI 318 PAR. 6.2	
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TENCHNIQUES	X		IBC: 1908.6, 1908.7, 1908.8 ACI 318: 26.5	
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	IBC: 1908.9 ACI 318: 25.5.3-26.5.5	
VERIFY THAT THE NECESSARY DESIGN STRENGTH HAS BEEN REACHED PRIOR TO THE REMOVAL OF FORMS		X		
INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES	X		ACI 318: 2610	
b. GROUTING OF BONDED PRESTRESSING TENDONS	X			
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS AND CONNECTIONS		X	ACI 318: CH. 26.8	
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318: CH. 26.11.2	
INSPECT CONCRETE FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.1.2(b)	
VERIFY CORRECT MATERIAL USED, INCLUDING THE USE OF A706 IN WELDED SPLICES, IF ANY		X	AWS: D1.4	
VERIFY FABRICATION/ QUALITY CONTROL PROCEDURES FOR PRECAST CONCRETE MANUFACTURER		X		VERIFY PLANT IS PCI CERTIFIED
MEASURE FLOOR FLATNESS AND LEVELNESS AS DIRECTED		X		

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES

INSPECTION ITEM REQUIRED	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	CODE REFERENCE	REMARKS
STRUCTURAL STEEL				
VISIT FABRICATION SHOP TO OBSERVE FABRICATION PROCEDURES		X		ONLY ONE INSPECTION IS REQUIRED UNLESS ON-SITE EVENTS INDICATE FURTHER INSPECTIONS ARE NECESSARY
VERIFY FABRICATOR CERTIFICATION		X		
VERIFY CORRECT STRUCTURAL STEEL MATERIAL DELIVERED TO JOB SITE.		X		
VERIFY WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	X			
VERIFY MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X			
VERIFY MATERIAL IDENTIFICATIONS (TYPE/GRADE)		X		
OBSERVE WELDER IDENTIFICATION SYSTEM		X		THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED, STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
OBSERVE FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) FOR JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)		X		
OBSERVE CONFIGURATION AND FINISH OF ACCESS HOLES		X		
OBSERVE FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)		X		
OBSERVE USE OF QUALIFIED WELDERS		X		
OBSERVE CONTROL AND HANDLING OF WELDING CONSUMABLES. (PACKAGING AND EXPOSURE CONTROL)		X		
VERIFY NO WELDING OVER CRACKED TACK WELDS		X		
OBSERVE ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE)		X		
VERIFY WPS FOLLOWED (WELDING EQUIPMENT SETTINGS, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED [MIN/MAX], PROPER POSITION [F, V, H, OH])		X		
OBSERVE WELDING TECHNIQUES (INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITS AND EACH PASS MEETS QUALITY REQUIREMENTS)		X		
VISUALLY INSPECT ALL WELDS FOR SIZE, LENGTH, AND LOCATION OF WELD. PROVIDE CONTINUOUS INSPECTION ON ALL FULL OR PARTIAL PENETRATION WELDS AND FILLET WELDS GREATER THAN 5/16"	X			
PERFORM ULTRASONIC TESTING ON ALL FULL PENETRATION WELDS	X			
VERIFY NO ARC STRIKES EXIST	X			
VISUALLY INSPECT k-AREA, WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, FOR CRACKS WITHIN 3" OF THE WELD	X			
VERIFY REPAIR ACTIVITY ACCEPTABILITY AS APPLICABLE	X			
DOCUMENT ACCEPTANCE OR REJECTINO OF WELDED JOINTS OR MEMBERS	X			
PERFORM MAGNETIC PARTICLE TESTING ON 20% OF ALL PARTIAL PENETRATION AND FILLET WELDS GREATER THAN 5/16"		X		
PERFORM MAGNETIC PARTICLE TESTING OR PENETRANT TESTING THERMALLY CUT SURFACES OF ACCESS HOLES WHERE THE FLANGE THICKNESS EXCEEDS 2 IN. FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. FOR BUILT-UP SHAPES.		X		ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF THE SIZE OR LOCATION
VERIFY MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS ARE AVAILABLE	X			
VERIFY FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		X		
VERIFY PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDEDE FROM THE SHEAR PLANE)		X		
VERIFY PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		X		

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES

INSPECTION ITEM REQUIRED	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	CODE REFERENCE	REMARKS
STRUCTURAL STEEL				
VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		X		
CONFIRM PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		X		
VERIFY PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		X		
VERIFY FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		X		
VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		X		
VERIFY FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		X		
VERIFY FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH TEH RCSC SPECIFICATION, PROGRSSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		X		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		X		
OBSERVE AND TEST ALL FIELD APPLIED HEADED STUDS	X			VERIFY CORRECT NUMBER, LOCATION, AND WELDING
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	X			

STRUCTURAL ABBREVIATIONS

AE	AIR ENTRAINING	LH	LEFT HAND
AFF	ABOVE FINISHED FLOOR	LL	LIVE LOAD
AHU	AIR HANDLING UNIT	LLH	LONG LEG HORIZONTAL
ALT	ALTERNATE	LLV	LONG LEG VERTICAL
APPROX	APPROXIMATE(LY)	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECT(URAL)	MAX	MAXIMUM
B/	BOTTOM OF	MECH	MECHANICAL
BLDG	BUILDING	MEP	MECHANICAL, ELECTRICAL, PLUMBING
BM	BEAM	MFR	MANUFACTURER
BOT	BOTTOM	MIN	MINIMUM
BRG	BEARING	MISC	MICELLANEOUS
C	COMPRESSION	NA	NOT APPLICABLE
CA	CAISSON	NO, #	NUMBER
CIP	CAST-IN-PLACE	NTS	NOT TO SCALE
CJ	CONTROL JOINT	OC	ON CENTER
CL	CENTERLINE	OCEW	ON CENTER EACH WAY
CLR	CLEAR	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OH	OPPOSITE HAND
COL	COLUMN	PEMB	PRE-ENGINEERED METAL BUILDING
CONC	CONCRETE	PJF	PREMOLDED JOINT FILLER
CONN	CONNECTION	PL	PLATE
CONST	CONSTRUCTION	PLF	POUNDS PER LINEAR FOOT
CONT	CONTINUE(D)(OUS)	PSF	POUND PER SQUARE FOOT
DBA	DEFORMED BAR ANCHOR	PSI	POUND PER SQUARE INCH
DBL	DOUBLE	PT	POST TENSION(ED)
DET	DETAIL	QTY	QUANTITY
DIA	DIAMETER	R	RADIUS
DIM	DIMENSION(S)	REINF	REINFORCE(D)
DL	DEAD LOAD	REV	REVISED/REVISION
DP	DRILLED PIER	RH	RIGHT HAND
DWG	DRAWING	RO	ROUGH OPENING
EA	EACH	RTU	ROOF TOP UNIT
ECC	ECCENTRICITY	SF	SQUARE FOOT
EF	EACH FACE	SIM	SIMILAR
EJ	EXPANSION JOINT	SPEC	SPECIFICATION
ELEV	ELEVATION	SS	STAINLESS STEEL
EOR	ENGINEER OF RECORD	STD	STANDARD
EQ	EQUAL	T	TENSION
EQUIP	EQUIPMENT	T&B	TOP AND BOTTOM
ES	EACH SIDE	T&G	TONGUE AND GROVE
EW	EACH WAY	T/	TOP OF
EWEF	EACH WAY EACH FACE	TBD	TO BE DETERMINED
FF	FINISHED FLOOR	TYP	TYPICAL
FND	FOUNDATION	UON	UNLESS OTHERWISE NOTED
FT	FEET (FOOT)	V	SHEAR
FTG	FOOTING	VERT	VERTICAL
GA	GAUGE	VIF	VERIFY IN FIELD
GALV	GALVANIZED	W/	WITH
GB	GRADE BEAM	W/O	WITHOUT
GL	GLUE LAMINATE TIMBER	WG	WORKABLE GAGE
HORZ	HORIZONTAL	WP	WORKING POINT
HS	HEADED STUD	WWR	WELDED WIRE REINFORCEMENT
ID	INSIDE DIAMETER		
K	KIP (1000 POUNDS)		
KLF	KIPS PER LINEAR FOOT		
LB, #	POUNDS		

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12/ 23/ 20 19
PROFESSIONAL ENGINEER

CAMERON COLLINGSWORTH - PE-2016003082

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.

S001

SPECIAL INSPECTIONS, ABBREVIATIONS, AND GENERAL NOTES

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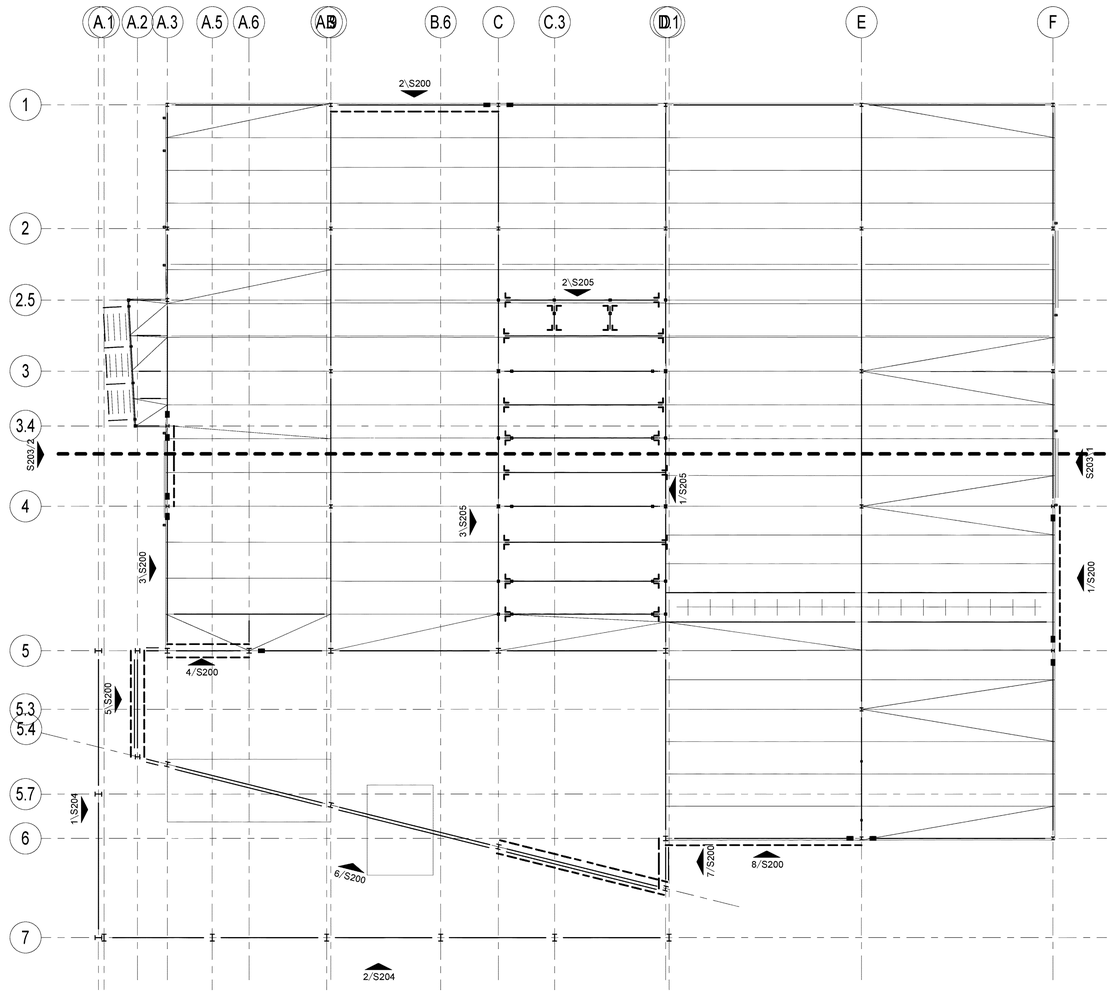

1 OVERALL PLAN

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

NORTH

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STATE OF MISSOURI
CAMERON J. COLLINGSWORTH
NUMBER PE-2016003082
12/23/2019
PROFESSIONAL ENGINEER

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Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.

S100

OVERALL PLAN

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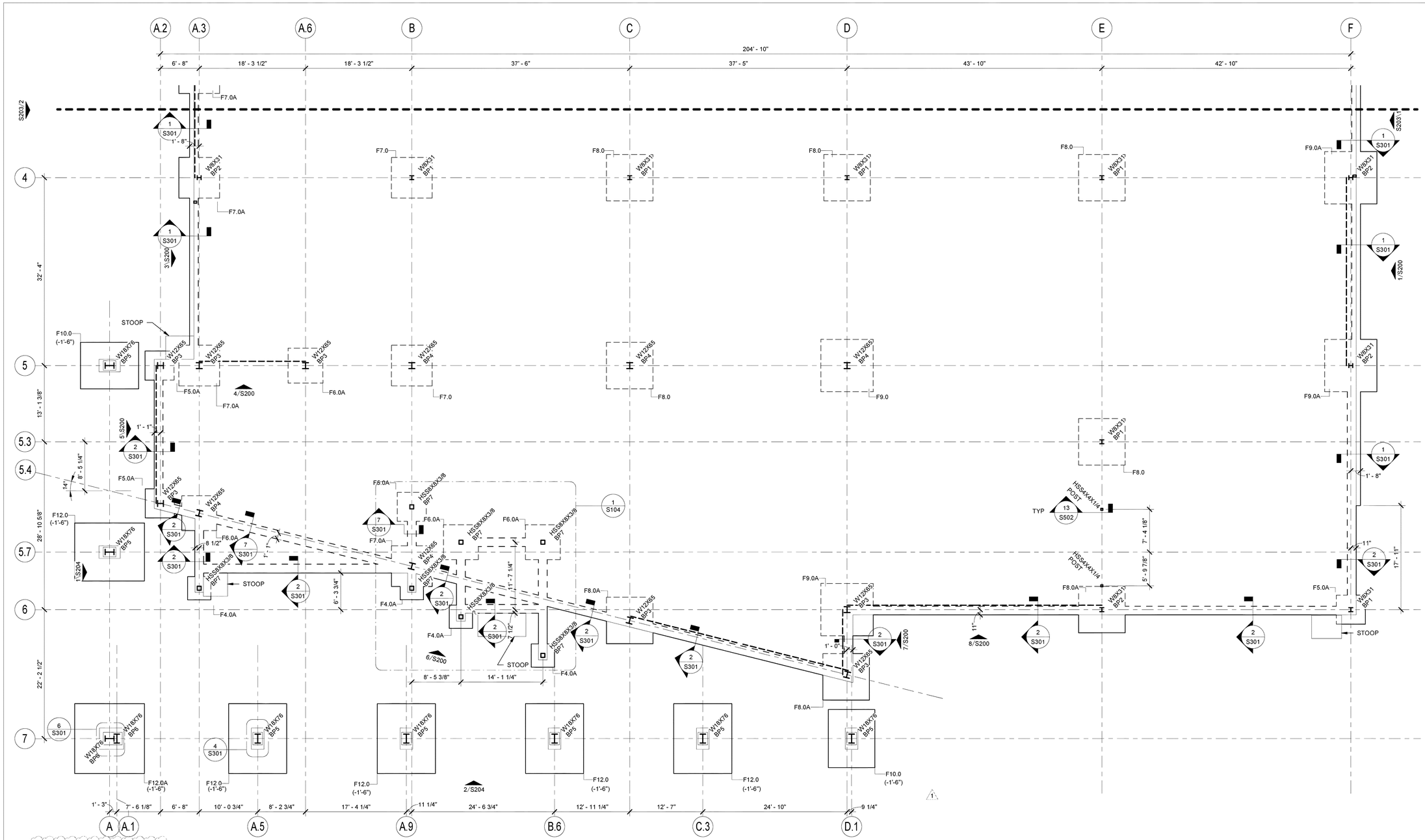

1 SLAB PLAN - AREA A

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

ISOLATED FOOTING SCHEDULE				
MARK	LENGTH	WIDTH	THICKNESS (INCHES)	REINFORCING
F4.0A	4' - 0"	4' - 0"	36"	(6) #5 BARS EW TOP & BOTTOM
F5.0A	5' - 0"	5' - 0"	36"	(8) #5 BARS EW TOP & BOTTOM
F6.0A	6' - 0"	6' - 0"	36"	(10) #6 BARS EW TOP & BOTTOM
F7.0	7' - 0"	7' - 0"	18"	(8) #6 BARS EW BOTTOM
F7.0A	7' - 0"	7' - 0"	36"	(8) #6 BARS EW BOTTOM
F8.0	8' - 0"	8' - 0"	18"	(10) #6 BARS EW TOP & BOTTOM
F8.0A	8' - 0"	8' - 0"	36"	(10) #6 BARS EW TOP & BOTTOM
F9.0	9' - 0"	9' - 0"	24"	(10) #6 BARS EW TOP & BOTTOM
F9.0A	9' - 0"	9' - 0"	36"	(10) #6 BARS EW TOP & BOTTOM
F10.0	10' - 0"	8' - 0"	36"	#6 @ 6" EW TOP AND BOTTOM
F12.0	12' - 0"	10' - 0"	36"	#6 @ 6" EW TOP AND BOTTOM
F12.0A	12' - 0"	12' - 0"	36"	#6 @ 6" EW TOP AND BOTTOM

PLAN NOTES:

1. TOP OF SLAB AND REFERENCE ELEVATION = 100'-0" = CIVIL ELEVATION = 1000.00' UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION.
2. 5" THICK SLAB ON GRADE ON VAPOR RETARDER ON 6" GRANULAR FILL. REINFORCE W/ #4 @ 16" EACH WAY, CENTERED IN SLAB.
3. TOP OF FOOTING ELEVATION TYPICALLY (-1'-0").
4. TOP OF GRADE BEAM ELEVATION TYPICALLY (-1'-0").
5. CONTRACTOR TO CONFIRM EDGE OF SLAB DIMENSIONS WITH ARCHITECTURE.
6. PROVIDE STOOP PER TYPICAL STOOP DETAIL ON SHEET S300. CONTRACTOR TO COORDINATE STOOP SIZE, LOCATION, AND QUANTITY W/ ARCHITECTURE. STOOP TO EXTEND MINIMUM 1'-0" BEYOND DOOR SWING, ALL DIRECTIONS.

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Revision No.	Description	Date
1	ADDENDUM 1	1/13/2020
2	ADDENDUM 2	1/20/2020

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.
S101A
FOUNDATION PLAN - AREA A

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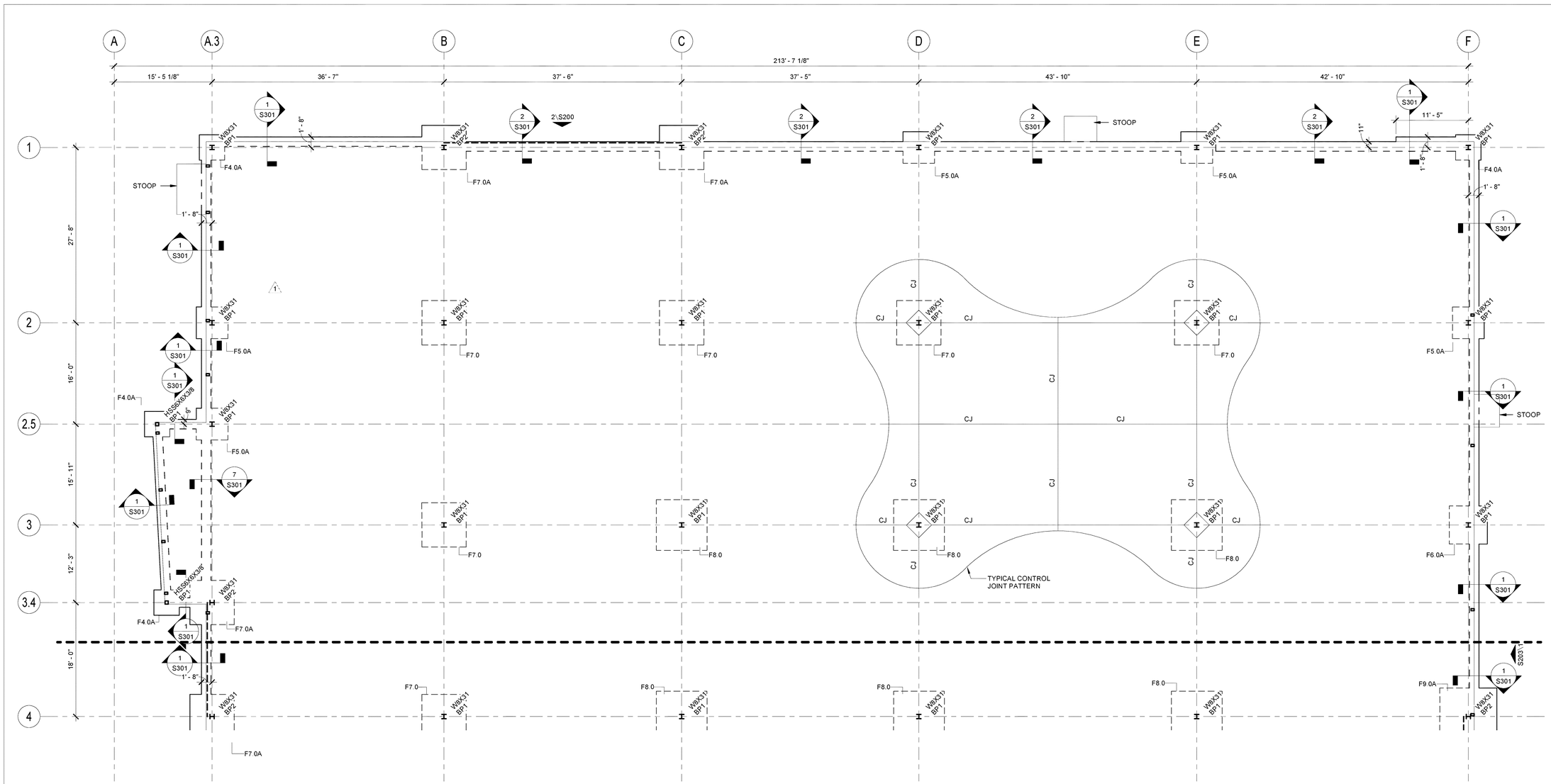

1 SLAB PLAN - AREA B

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

NORTH

ISOLATED FOOTING SCHEDULE				
MARK	LENGTH	WIDTH	THICKNESS (INCHES)	REINFORCING
F4.0A	4' - 0"	4' - 0"	36"	(6) #5 BARS EW TOP & BOTTOM
F5.0A	5' - 0"	5' - 0"	36"	(8) #5 BARS EW TOP & BOTTOM
F6.0A	6' - 0"	6' - 0"	36"	(10) #6 BARS EW TOP & BOTTOM
F7.0	7' - 0"	7' - 0"	18"	(8) #6 BARS EW BOTTOM
F7.0A	7' - 0"	7' - 0"	36"	(8) #6 BARS EW BOTTOM
F8.0	8' - 0"	8' - 0"	18"	(10) #6 BARS EW TOP & BOTTOM
F8.0A	8' - 0"	8' - 0"	36"	(10) #6 BARS EW TOP & BOTTOM
F9.0	9' - 0"	9' - 0"	24"	(10) #6 BARS EW TOP & BOTTOM
F9.0A	9' - 0"	9' - 0"	36"	(10) #6 BARS EW TOP & BOTTOM
F10.0	10' - 0"	8' - 0"	36"	#6 @ 6" EW TOP AND BOTTOM
F12.0	12' - 0"	10' - 0"	36"	#6 @ 6" EW TOP AND BOTTOM
F12.0A	12' - 0"	12' - 0"	36"	#6 @ 6" EW TOP AND BOTTOM

PLAN NOTES:

1. TOP OF SLAB AND REFERENCE ELEVATION = 100'-0" = CIVIL ELEVATION = 1000.00' UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION.
2. 5" THICK SLAB ON GRADE ON VAPOR RETARDER ON 6" GRANULAR FILL. REINFORCE W/ #4 @ 16" EACH WAY, CENTERED IN SLAB.
3. TOP OF FOOTING ELEVATION TYPICALLY (-1'-0").
4. TOP OF GRADE BEAM ELEVATION TYPICALLY (-1'-0").
5. CONTRACTOR TO CONFIRM EDGE OF SLAB DIMENSIONS WITH ARCHITECTURE.
6. PROVIDE STOOP PER TYPICAL STOOP DETAIL ON SHEET S300. CONTRACTOR TO COORDINATE STOOP SIZE, LOCATION, AND QUANTITY W/ ARCHITECTURE. STOOP TO EXTEND MINIMUM 1'-0" BEYOND DOOR SWING, ALL DIRECTIONS.

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Revision No.	Description	Date
1	ADDENDUM 1	1/13/2020
2	ADDENDUM 2	1/20/2020

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.
S101B
FOUNDATION PLAN - AREA B

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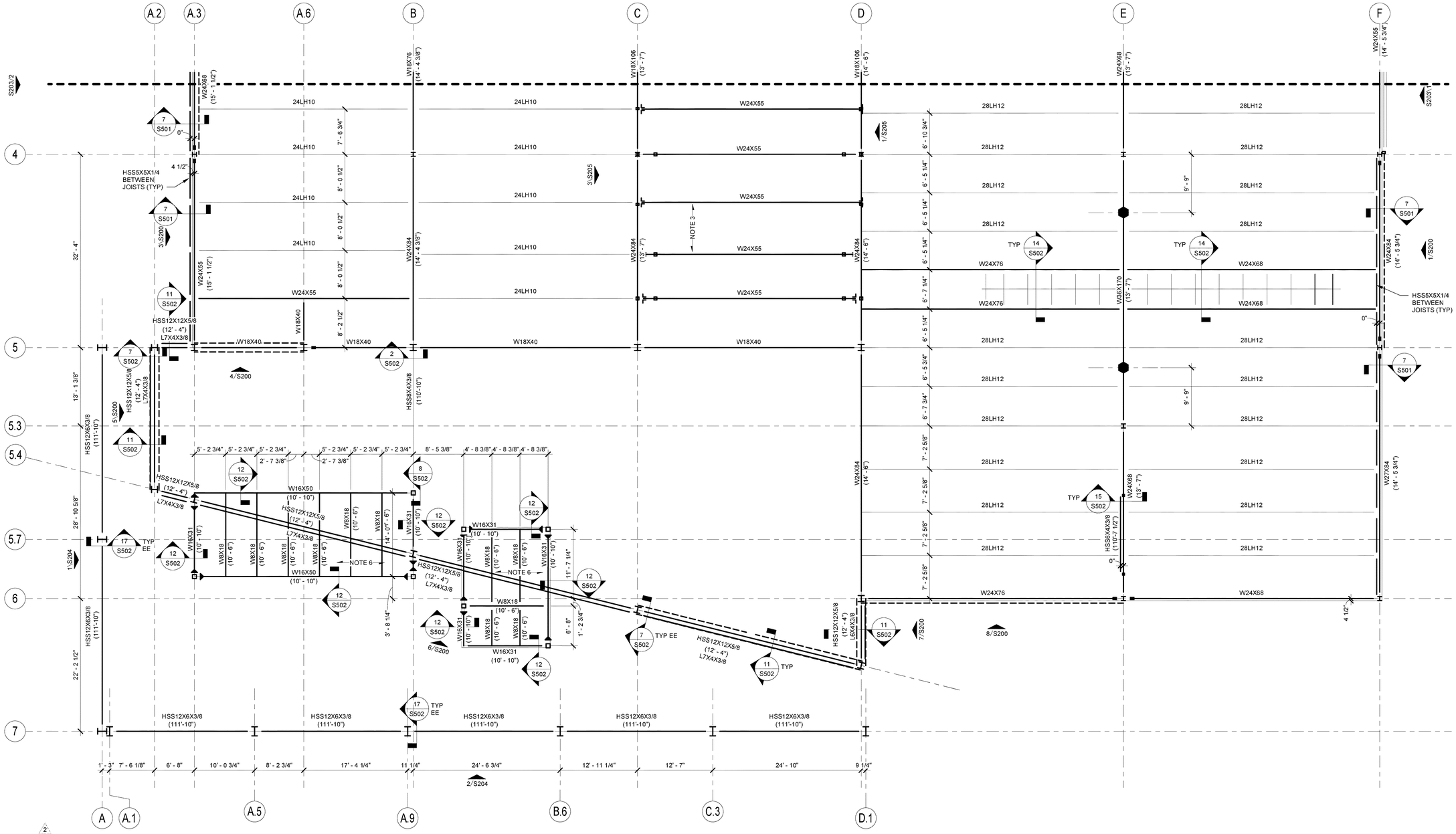

1 LOWER ROOF - AREA A

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

PLAN NOTES:

1. TOP OF STEEL ELEVATION AND REFERENCE ELEVATION = AS NOTED ON PLAN.
2. DECK BEARING ELEVATION TYPICALLY = (+0'-5").
3. NOTE 3 — INDICATES DIRECTION OF SPAN OF 3" - 20 GA (GALV) METAL ROOF DECK. SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.
4. NOTE 4 — INDICATES DIRECTION OF SPAN OF 3" - 20 GA (GALV) ACOUSTIC METAL ROOF DECK. SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.
5. INDICATES CL OF BEAM WEB OPENING. SEE DETAIL 1 / S502 FOR ADDITIONAL INFORMATION.
6. NOTE 6 — INDICATES DIRECTION OF SPAN OF 1 1/2" - 20 GA (GALV) ACOUSTIC METAL ROOF DECK. SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.

NORTH

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Revision No.	Description	Date
1	ADDENDUM 1	1/13/2020
2	ADDENDUM 2	1/20/2020

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.
S102A
ROOF FRAMING PLAN - AREA A

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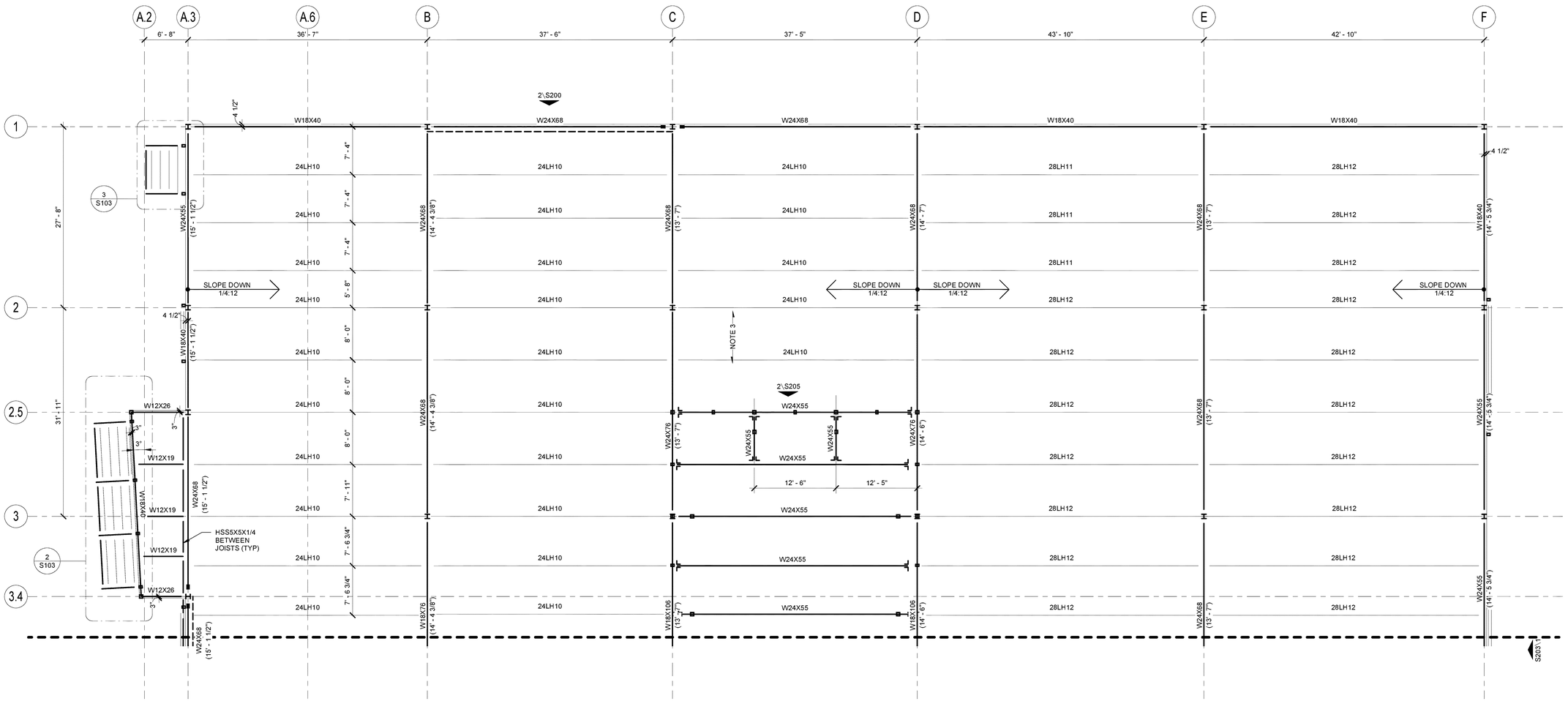

1 LOWER ROOF - AREA B

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

NORTH

PLAN NOTES:

1. TOP OF STEEL ELEVATION AND REFERENCE ELEVATION = AS NOTED ON PLAN.
2. DECK BEARING ELEVATION TYPICALLY = (+0'-5").
3. —NOTE 3— INDICATES DIRECTION OF SPAN OF 3" - 20 GA (GALV) METAL ROOF DECK. SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.
4. —NOTE 4— INDICATES DIRECTION OF SPAN OF 3" - 20 GA (GALV) ACOUSTIC METAL ROOF DECK. SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.
5. ⬢ INDICATES CL OF BEAM WEB OPENING. SEE DETAIL 1 / S502 FOR ADDITIONAL INFORMATION.
6. —NOTE 6— INDICATES DIRECTION OF SPAN OF 1 1/2" - 20 GA (GALV) ACOUSTIC METAL ROOF DECK. SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.

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Revision No.	Description	Date
1	ADDENDUM 1	1/13/2020
2	ADDENDUM 2	1/20/2020

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.

S102B

ROOF FRAMING PLAN - AREA B

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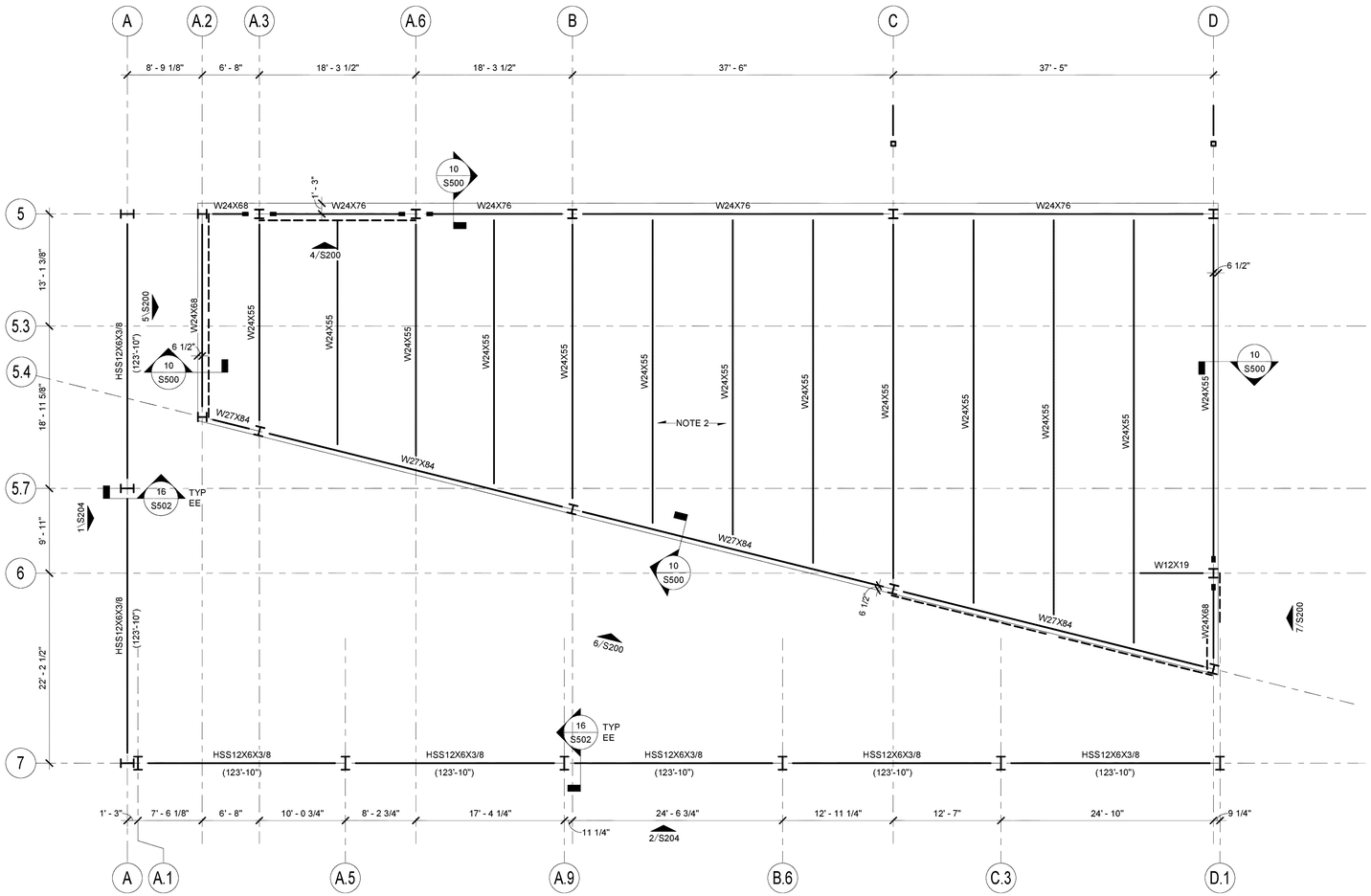
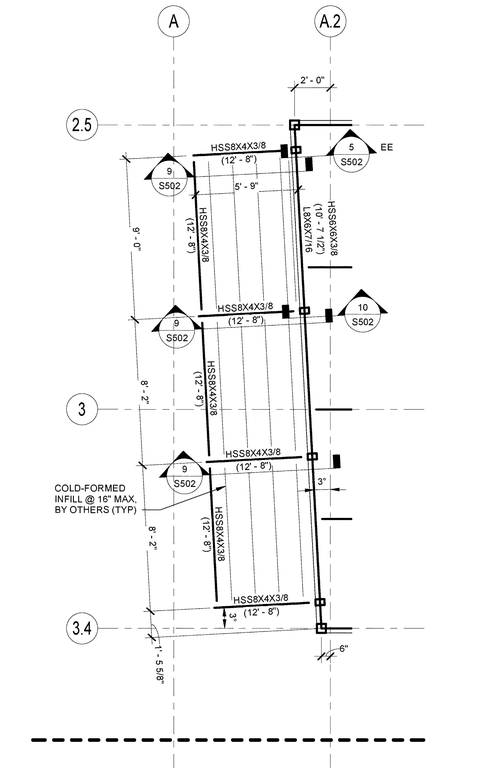


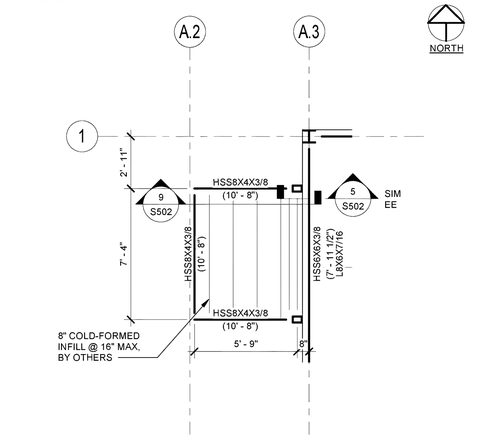
1 UPPER ROOF

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



2 DRIVE-THRU CANOPY FRAMING PLAN

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



3 EXIT CANOPY FRAMING PLAN

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

NORTH

PLAN NOTES:

1. DECK BEARING AND REFERENCE ELEVATION = 1##'-#" UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION.
2. ——► INDICATES DIRECTION OF SPAN OF 3" - 20 GA (GALV) METAL ROOF DECK. SEE GENERAL NOTES FOR FASTENING REQUIREMENTS.

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.

S103

UPPER ROOF FRAMING PLAN AND PARTIAL PLANS

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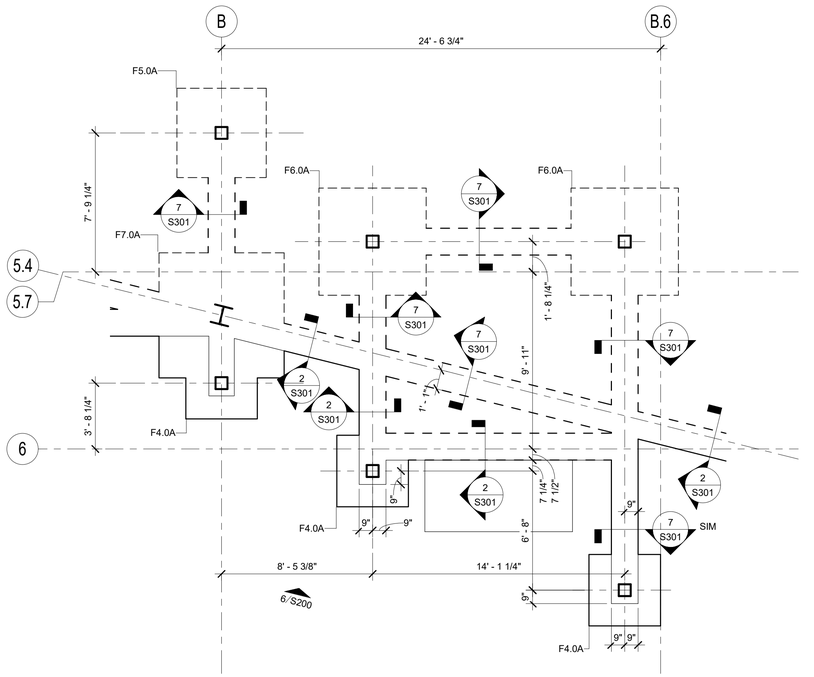

1 ENLARGED FOUNDATION PLAN
SCALE = 1/4" = 1'-0"

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Revision No.	Description	Date
1	ADDENDUM 1	1/13/2020

Project No.	Date	Drawn
WP10	12/23/2019	Author

Drawing No.
1
S104
ENLARGED FOUNDATION PLANS

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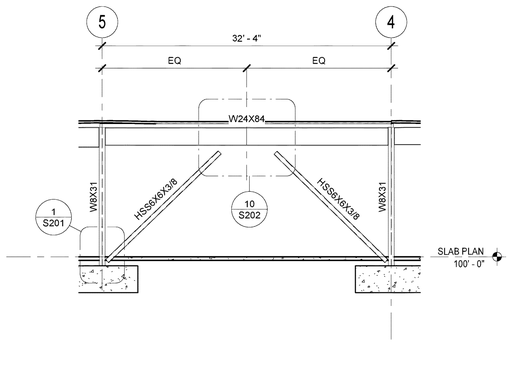
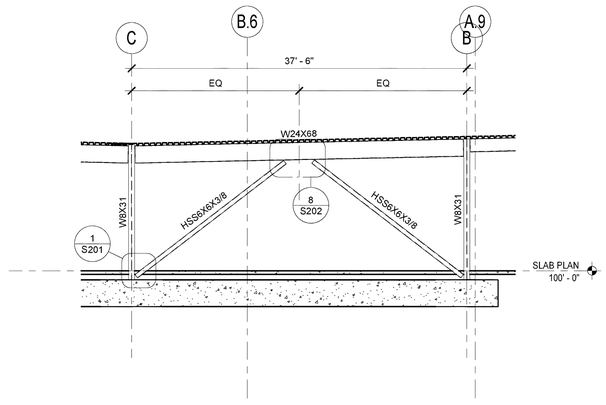


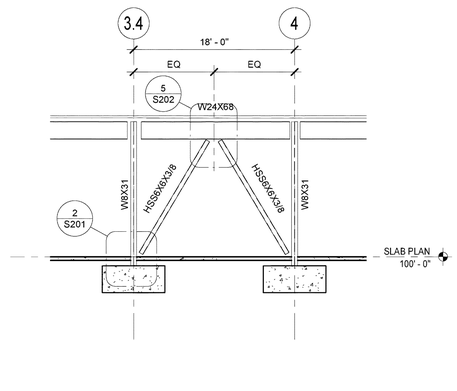
1 BRACED FRAME ELEVATION ALONG GRID F

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



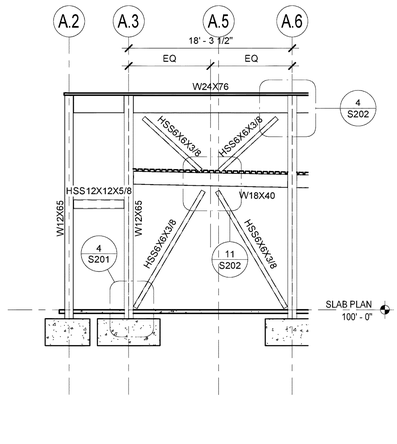
2 BRACED FRAME ELEVATION ALONG GRID 1

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



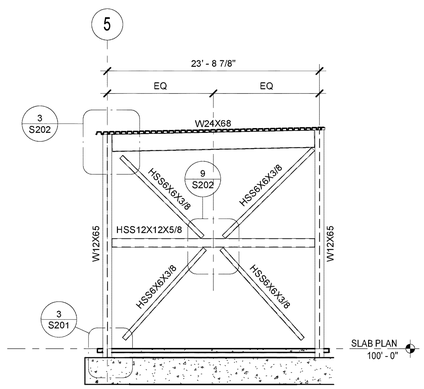
3 BRACED FRAME ELEVATION ALONG GRID A.3

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



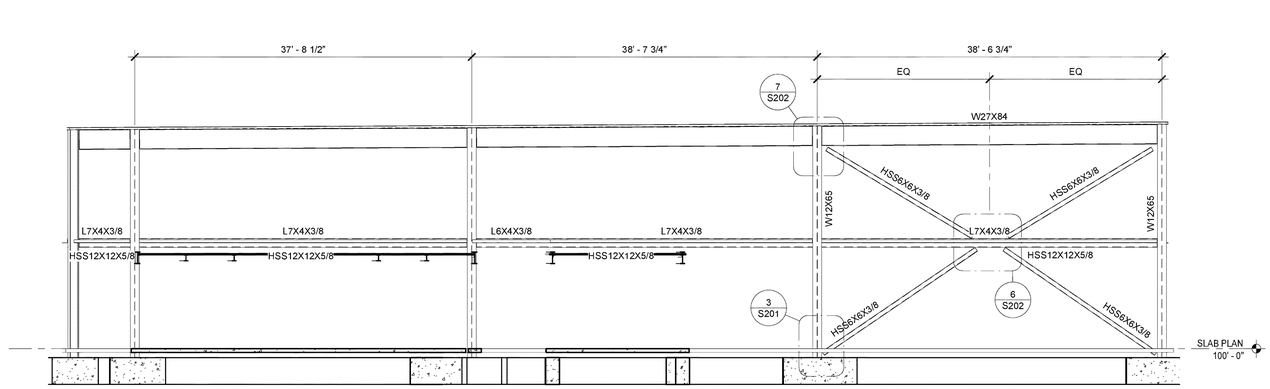
4 BRACED FRAME ELEVATION ALONG GRID 5

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



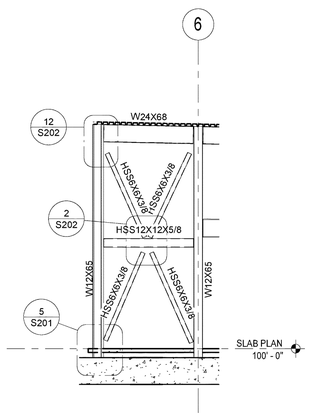
5 BRACED FRAME ELEVATION ALONG GRID A.2

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



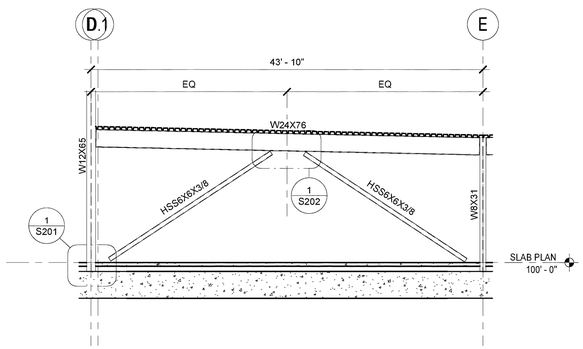
6 BRACED FRAME ELEVATION ALONG GRID 5.4

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



7 BRACED FRAME ELEVATION ALONG GRID D

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



8 BRACED FRAME ELEVATION ALONG GRID 6

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

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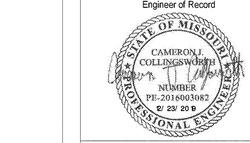

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Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.

S200

BRACED FRAME ELEVATIONS

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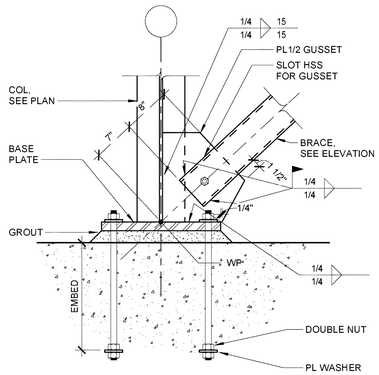

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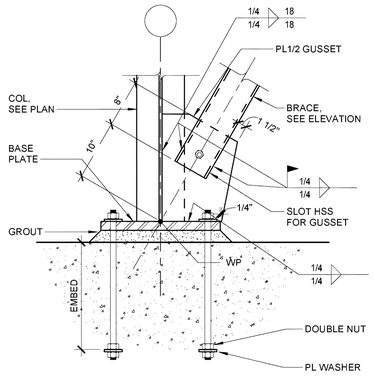

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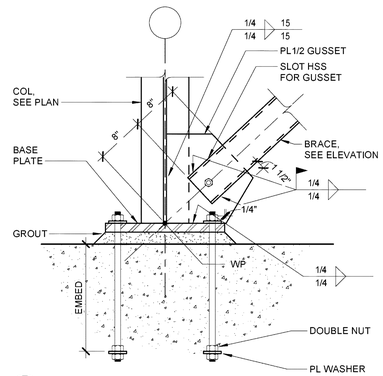

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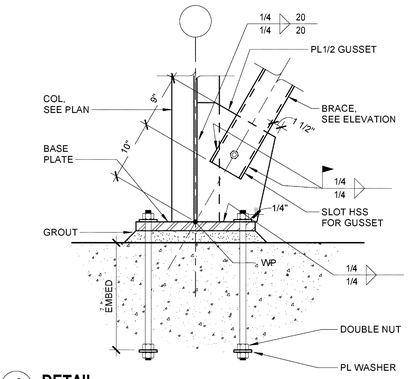

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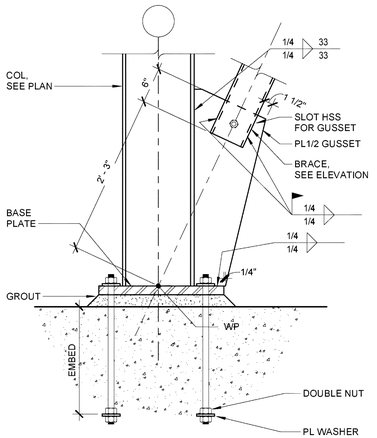

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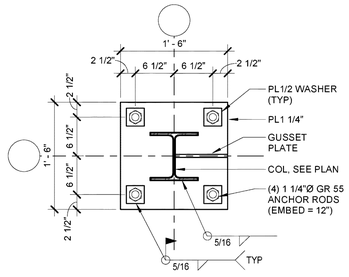

6 BP2 DETAIL
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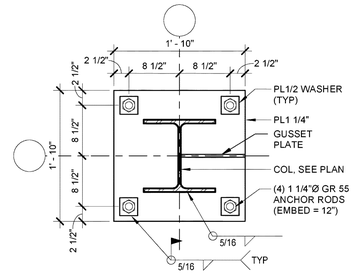

7 BP3 DETAIL
SCALE = 1" = 1'-0"

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Drawing No.
S201
BRACED FRAME SECTIONS AND DETAILS

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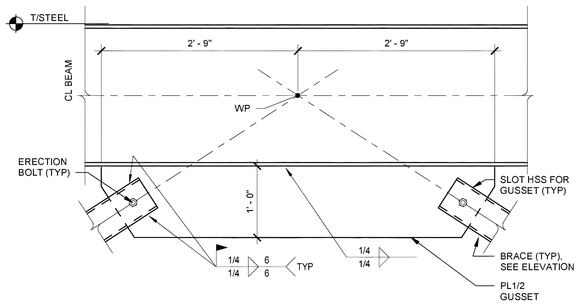

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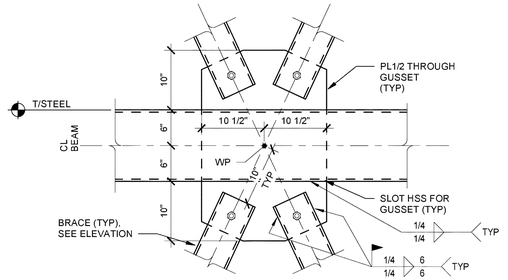

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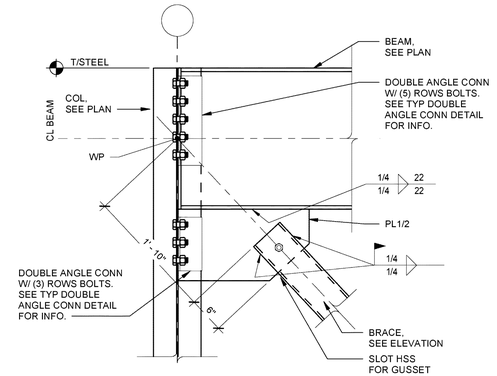

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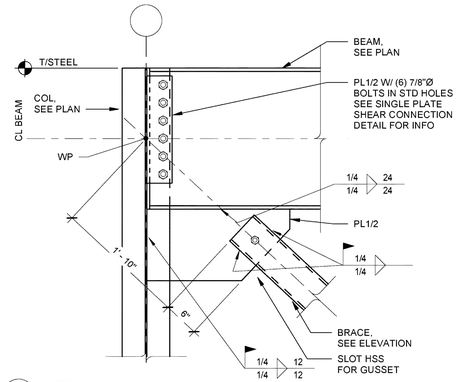

4 DETAIL
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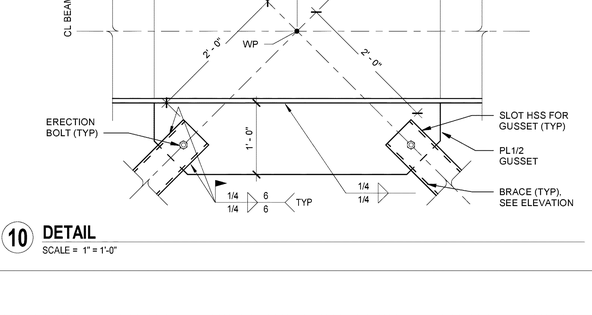

5 DETAIL
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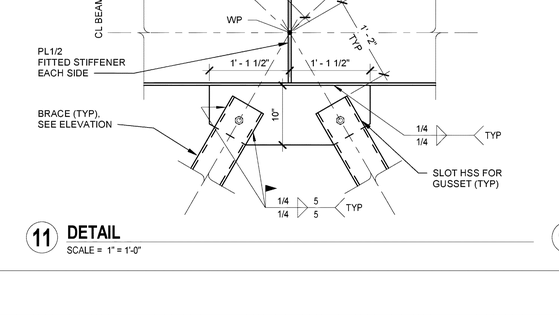

6 DETAIL
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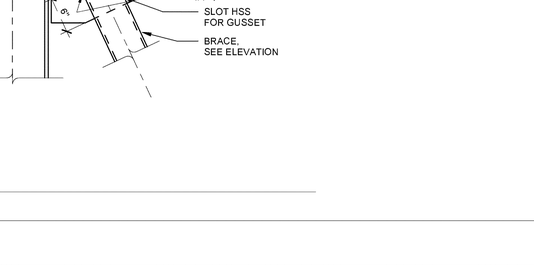
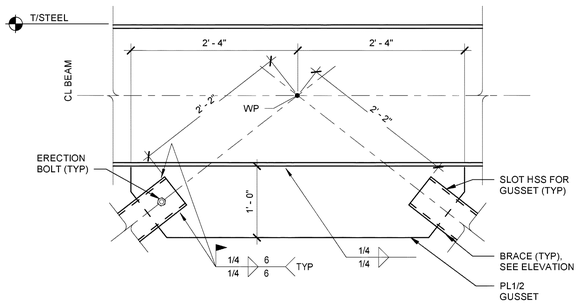


7 DETAIL
SCALE = 1" = 1'-0"



8 DETAIL
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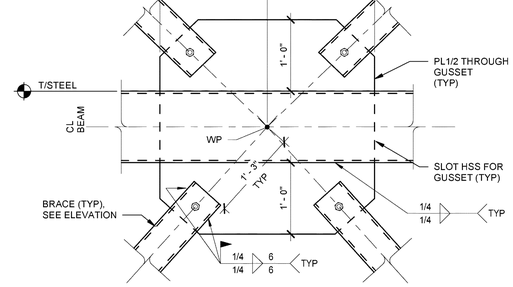

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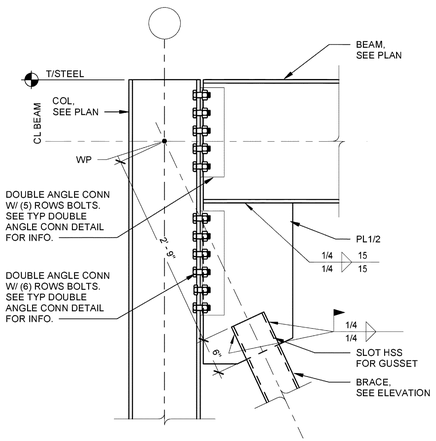

12 DETAIL
SCALE = 1" = 1'-0"

10 DETAIL
SCALE = 1" = 1'-0"

11 DETAIL
SCALE = 1" = 1'-0"

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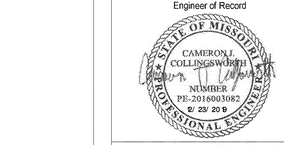

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Drawing No.
S202
BRACED FRAME SECTIONS AND DETAILS

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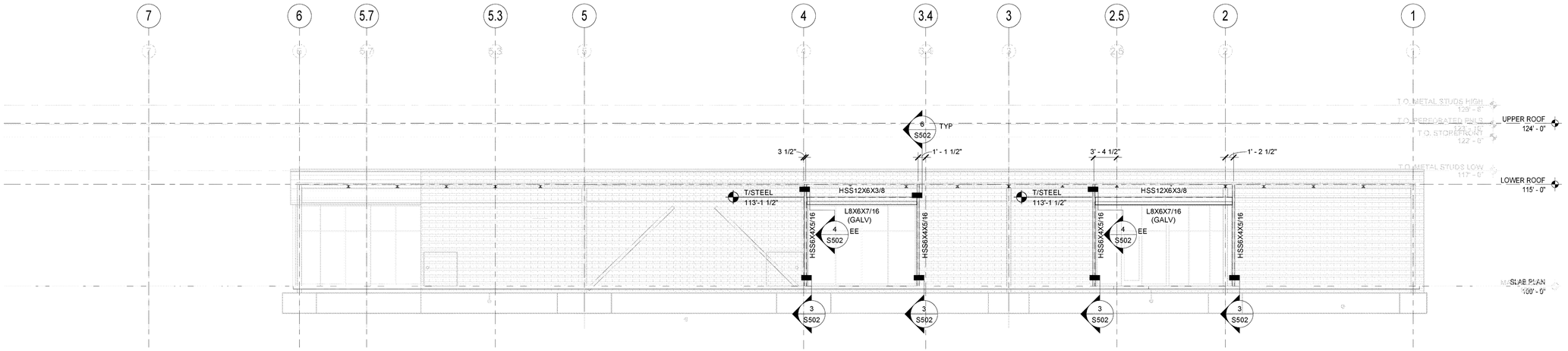
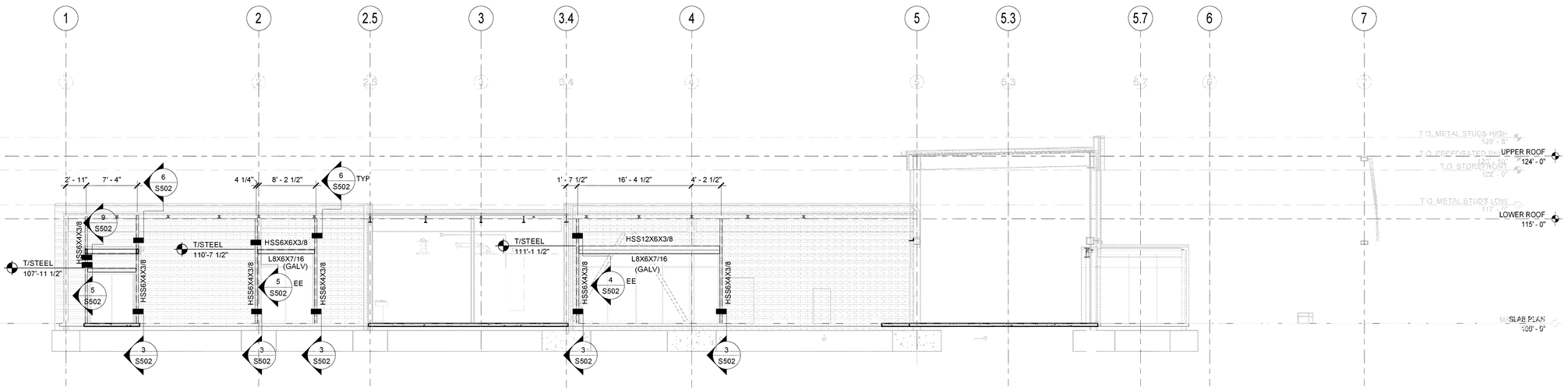


1 MISCELLANEOUS STEEL ELEVATION - EAST

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



2 MISCELLANEOUS STEEL ELEVATION - WEST

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

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12/23/2019
PROFESSIONAL ENGINEER

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Drawing No.
S203
MISCELLLANEOUS STEEL ELEVATIONS

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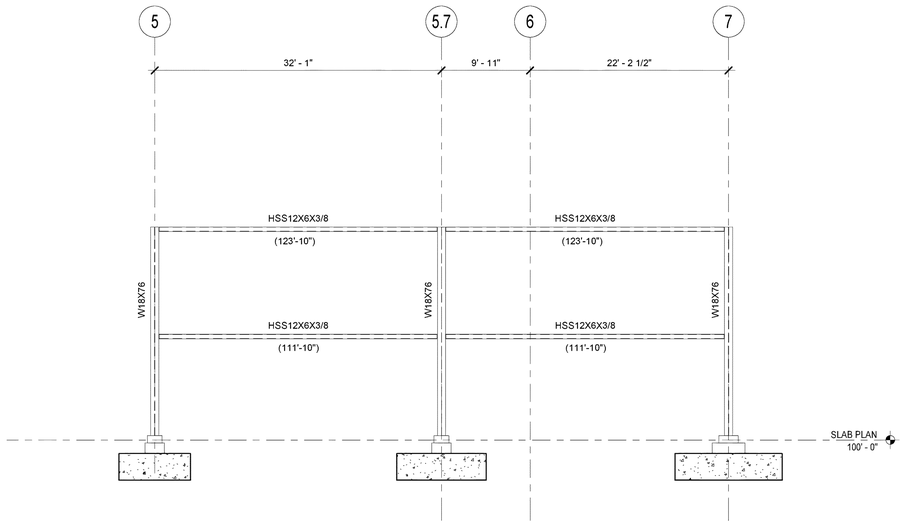
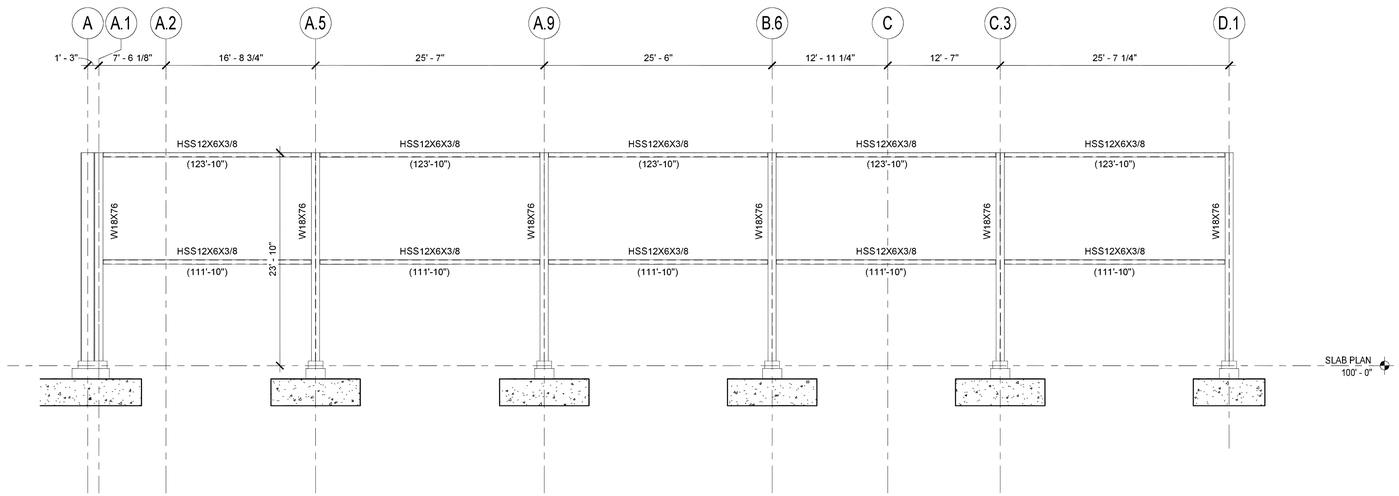


1 SCRIM EALL ELEVATION - WEST

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



2 SCRIM WALL ELEVATION - SOUTH

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

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Drawing No.
S204
SCRIM WALL ELEVATIONS

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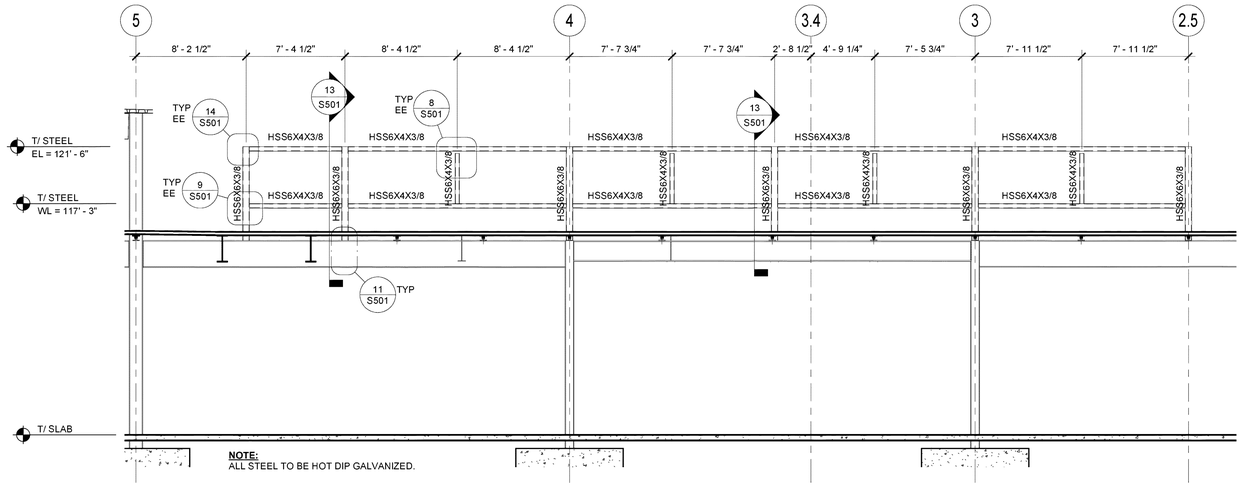
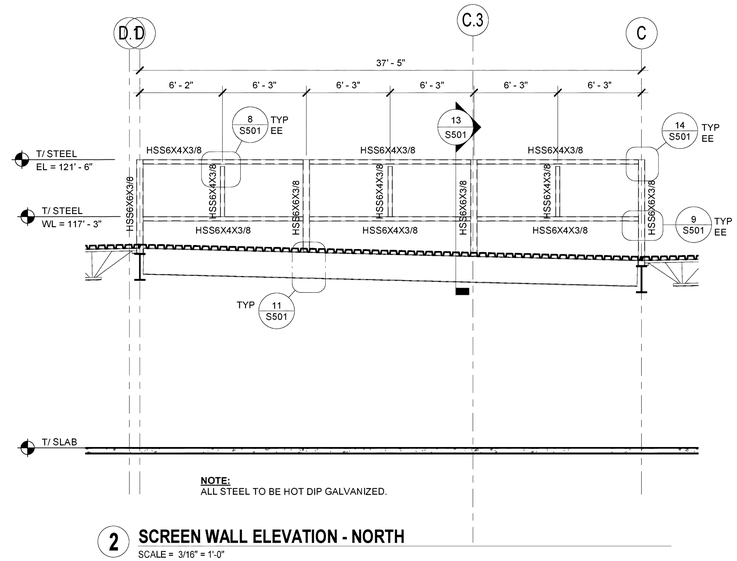


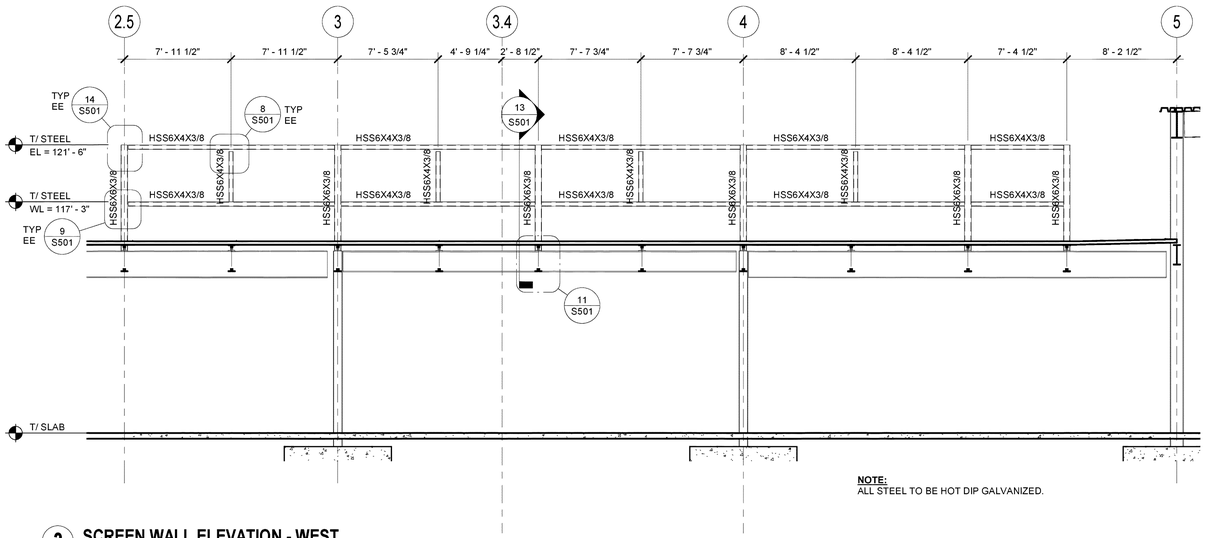
1 SCREEN WALL ELEVATION - EAST

SCALE = 3/16" = 1'-0"



2 SCREEN WALL ELEVATION - NORTH

SCALE = 3/16" = 1'-0"



3 SCREEN WALL ELEVATION - WEST

SCALE = 3/16" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.
S205
SCREEN WALL ELEVATIONS

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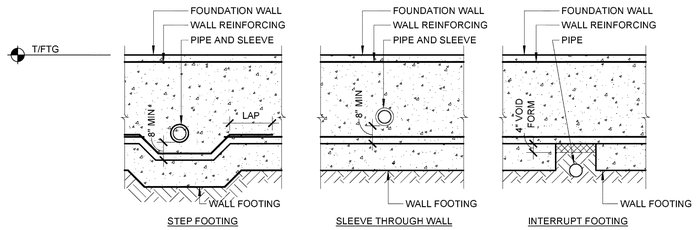
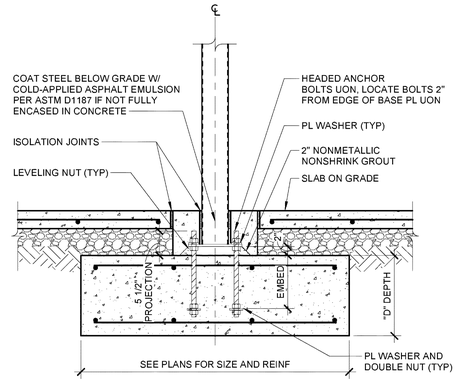
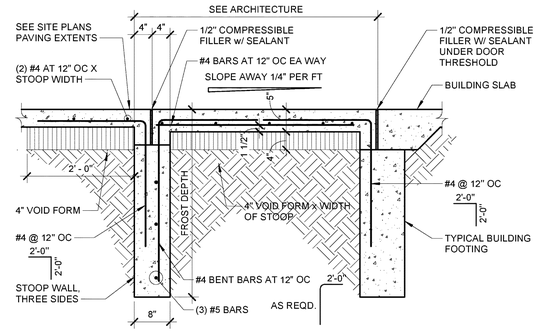


NOTES:
1. DIAMETER OF NEW SLEEVE FOR EXISTING PIPE SHALL BE 2" LARGER THAN EXISTING PIPE DIAMETER.

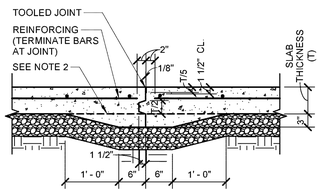
1 TYPICAL FOUNDATION WALL PENETRATION
SCALE = 3/8" = 1'-0"



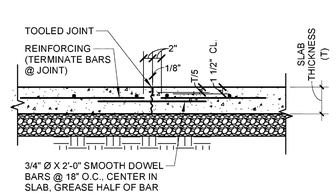
2 TYP SPREAD FOOTING DETAIL
SCALE = 3/4" = 1'-0"



3 TYPICAL STOOP DETAIL
SCALE = 3/4" = 1'-0"



CONSTRUCTION JOINT - KEYED



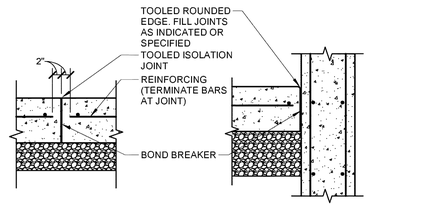
CONSTRUCTION JOINT - DOWELED

CONTROL JOINT (C.J.)

EXPANSION JOINT (E.J.)

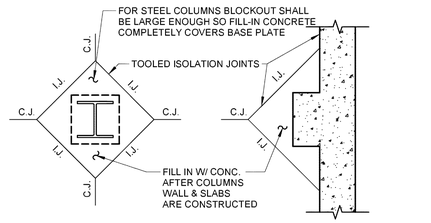
NOTES :
1. CONTRACTOR HAS OPTION OF USING EITHER DOWELED OR KEYED CONSTRUCTION JOINT.
2. OMIT THICKENED PORTION OF SLAB WHERE SLAB THICKNESS IS 8" OR GREATER.
3. JOINTS NOTED ON PLAN BY C.J. MAY BE EITHER CONSTRUCTION JOINTS OR CONTROL JOINTS AT CONTRACTOR'S OPTION. JOINTS TERMINATING A POUR SHALL BE CONSTRUCTION JOINTS, EXCEPT AT WALLS AND COLUMNS. THESE ARE ISOLATION JOINTS. ALL OTHER JOINTS MARKED C.J. ARE CONTROL JOINTS.
4. FILL OR SEAL JOINTS AS INDICATED OR SPECIFIED.
5. SEE PLANS FOR TYPICAL REINFORCING.

4 TYPICAL SLAB ON GRADE JOINT DETAILS
SCALE = 3/4" = 1'-0"



ISOLATION JOINT

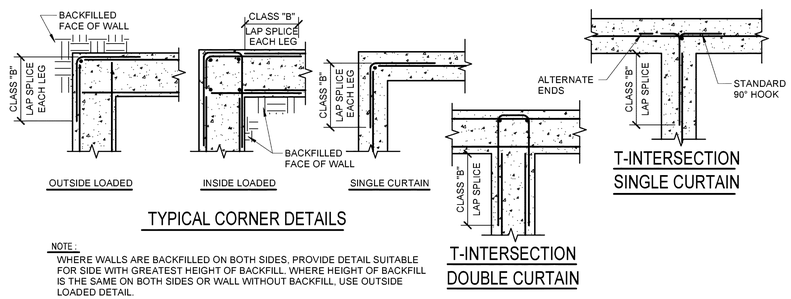
ISOLATION JOINT AT WALL



PLAN AT INTERIOR COLUMN

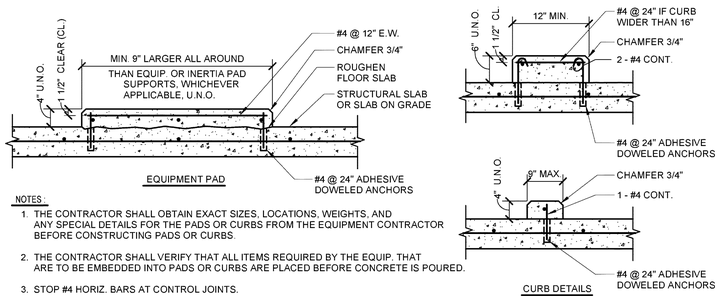
PLAN AT EXTERIOR COLUMN OR PILASTER

5 TYPICAL ISOLATION JOINT DETAIL
SCALE = 3/4" = 1'-0"



NOTE :
WHERE WALLS ARE BACKFILLED ON BOTH SIDES, PROVIDE DETAIL SUITABLE FOR SIDE WITH GREATEST HEIGHT OF BACKFILL. WHERE HEIGHT OF BACKFILL IS THE SAME ON BOTH SIDES OR WALL WITHOUT BACKFILL, USE OUTSIDE LOADED DETAIL.

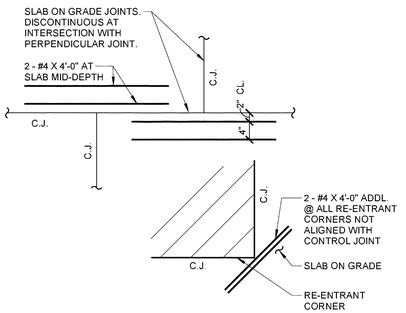
6 PLAN-TYPICAL WALL CORNER AND T-INTERSECTION REINFORCING
SCALE = 3/4" = 1'-0"



CURB DETAILS

NOTES :
1. THE CONTRACTOR SHALL OBTAIN EXACT SIZES, LOCATIONS, WEIGHTS, AND ANY SPECIAL DETAILS FOR THE PADS OR CURBS FROM THE EQUIPMENT CONTRACTOR BEFORE CONSTRUCTING PADS OR CURBS.
2. THE CONTRACTOR SHALL VERIFY THAT ALL ITEMS REQUIRED BY THE EQUIP. THAT ARE TO BE EMBEDDED INTO PADS OR CURBS ARE PLACED BEFORE CONCRETE IS POURED.
3. STOP #4 HORIZ. BARS AT CONTROL JOINTS.

7 CURB AND PAD DETAILS
SCALE = 3/4" = 1'-0"



9 JOINT INTERSECTION SLAB ON GRADE
SCALE = 3/4" = 1'-0"

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.
S300
TYPICAL CONCRETE SECTIONS AND DETAILS

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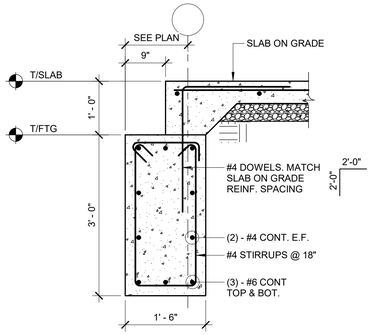
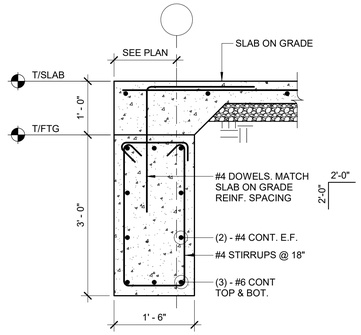


1 SECTION
SCALE = 3/4" = 1'-0"



2 SECTION
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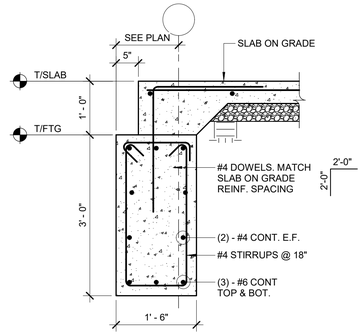
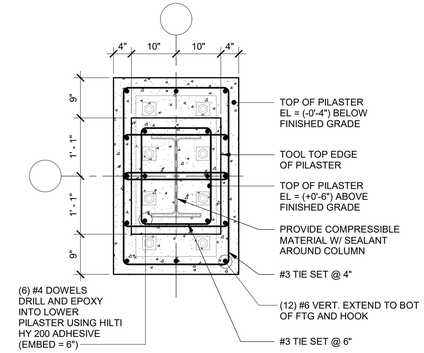
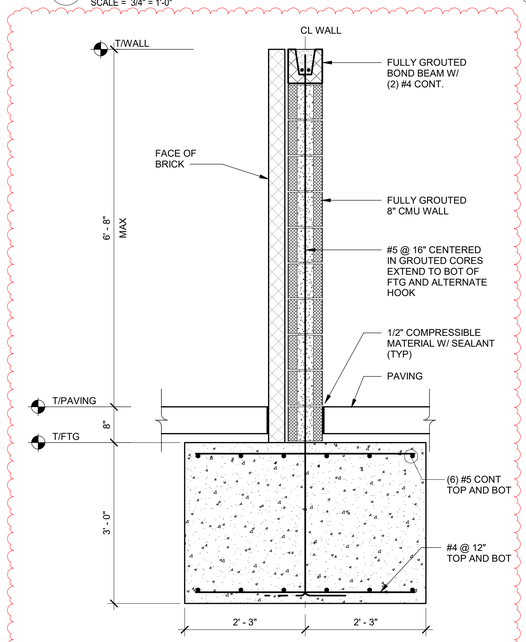


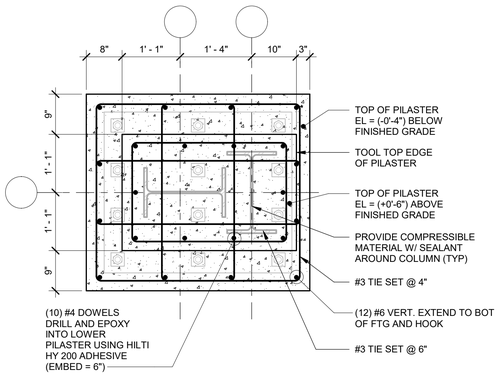
3 SECTION
SCALE = 3/4" = 1'-0"



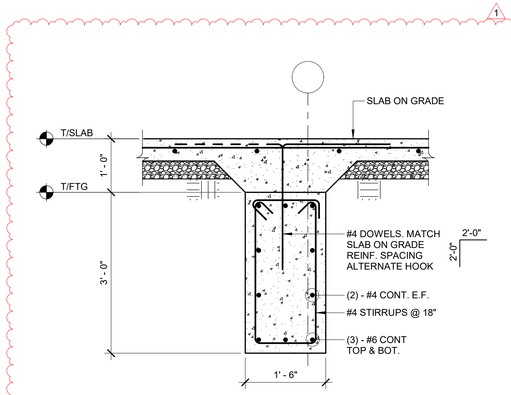
4 DETAIL
SCALE = 3/4" = 1'-0"



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



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



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

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Revision No.	Description	Date
1	ADDENDUM 1	1/13/2020

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.
S301
CONCRETE SECTIONS AND DETAILS

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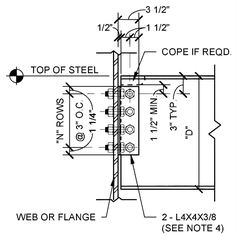
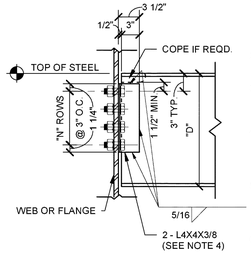


DOUBLE ANGLE CONNECTION SCHEDULE	
NOMINAL BEAM SIZE "D"	NUMBER OF BOLT ROWS "N"
W8	2
W10	2
W12	2
W14	3
W16	3
W18	3
W21	4
W24	4
W27	5
W30	5
W33	8
W36	8
W40	10
W44	12



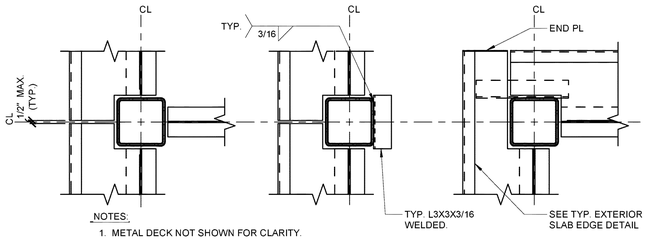
NOTE:

1. AT CONTRACTOR'S OPTION, ANGLES MAY BE BOLTED OR WELDED TO BEAM WEB. ALL DOUBLE ANGLE CONNECTIONS SHOWN ON PLAN SHEETS MUST BE WELDED TO THE BEAM WEB.
2. ALL BOLTS SHALL BE F1852 UNLESS NOTE OTHERWISE.
3. STAGGER BOLTS AND USE SHORTER OUTSTANDING LEGS AS REQD. FOR CLEARANCE.
4. MIN. DISTANCE FROM TOP BOLT TO A COPE SHALL BE 1 1/2". WHERE DEEP COPES ARE REQD., INCREASE DISTANCE FROM TOP OF BEAM TO CL OF TOP BOLT.
5. USE ONLY STANDARD SIZE HOLES FOR CONN. TO BEAM WEB. STANDARD OR SHORT SLOTTED HOLES MAY BE USED FOR CONN. TO COLUMN.
6. PROVIDE MINIMUM BOLT NUMBER AND 7/8"Ø BOLTS TYPICAL. WHERE BOLT ROWS AND / OR BOLTS SIZE ARE INDICATED I.E. 4 - 1" Ø

   AT CONNECTION, INCREASE NUMBER OF ROWS AND / OR BOLT DIAMETER AS INDICATED.
7. STAGGER BOLT SPACING AS REQUIRED TO MEET OSHA ERECTION GUIDELINES.

4 TYPICAL DOUBLE ANGLE CONNECTION DETAIL

SCALE = 1" = 1'-0"

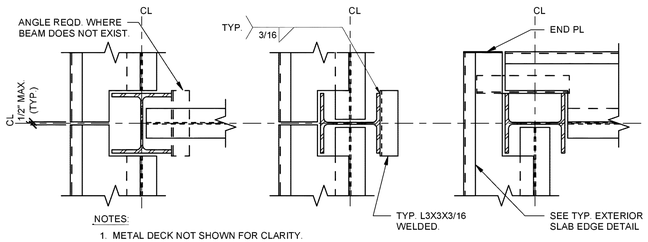


NOTES:

1. METAL DECK NOT SHOWN FOR CLARITY.
2. PROVIDE TYP. ANGLE AT EXT. COLUMNS AND INTERIOR COLUMNS WHERE BEAMS ARE NOT PRESENT.
3. ANGLES NOT SHOWN ON OTHER SECTIONS FOR CLARITY.
4. PROVIDE SHEET METAL DECK CLOSURE PIECE TO PREVENT CONCRETE LEAKAGE @ COLUMNS.

2 TYP. DECK SUPPORT @ HSS COLUMNS

SCALE = 1" = 1'-0"

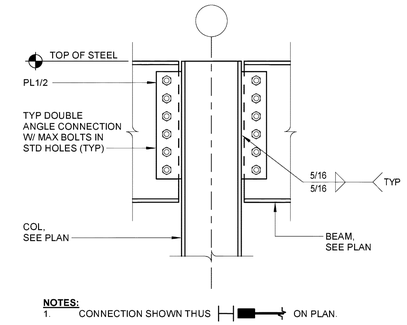


NOTES:

1. METAL DECK NOT SHOWN FOR CLARITY.
2. PROVIDE TYP. ANGLE AT EXT. COLUMNS AND INTERIOR COLUMNS WHERE BEAMS ARE NOT PRESENT.
3. ANGLES NOT SHOWN ON OTHER SECTIONS FOR CLARITY.
4. PROVIDE SHEET METAL DECK CLOSURE PIECE TO PREVENT CONCRETE LEAKAGE @ COLUMNS.

1 TYP. DECK SUPPORT @ W COLUMNS

SCALE = 1" = 1'-0"

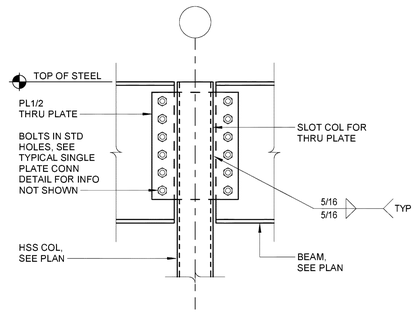


NOTES:

1. CONNECTION SHOWN THUS ON PLAN.
2. DECK NOT SHOWN FOR CLARITY.

5 TYPICAL DRAG SPLICE CONN @ W COL

SCALE = 1" = 1'-0"

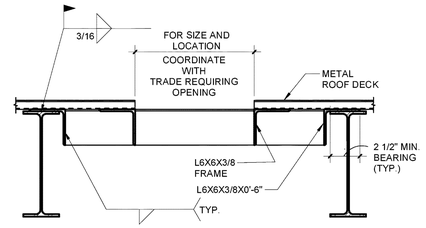


NOTES:

1. CONNECTION SHOWN THUS ON PLAN.
2. DECK NOT SHOWN FOR CLARITY.

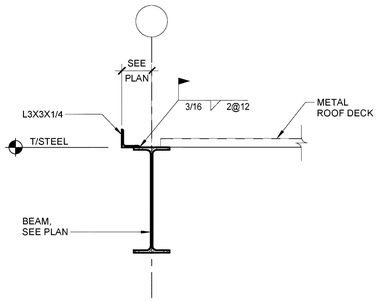
6 TYPICAL DRAG SPLICE CONN @ HSS COL

SCALE = 1" = 1'-0"



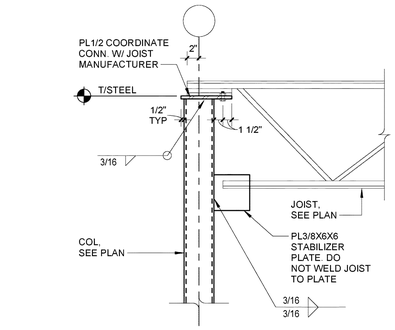
3 TYP. FRAMING @ ROOF OPENING AND ROOF DRAINS

SCALE = 1" = 1'-0"



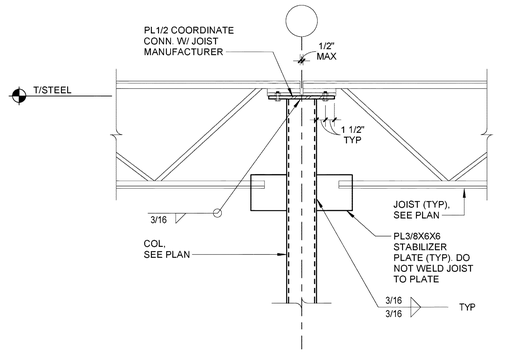
7 TYPICAL DECK EDGE DETAIL

SCALE = 1" = 1'-0"



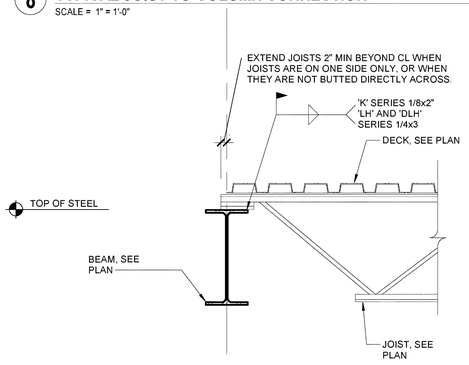
8 TYPICAL JOIST TO COLUMN CONNECTION

SCALE = 1" = 1'-0"



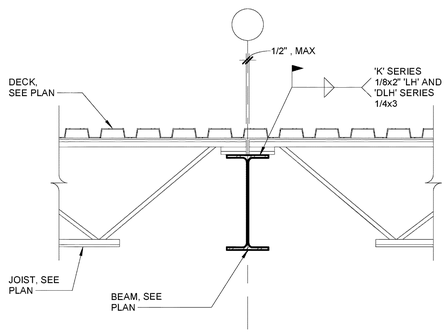
9 TYPICAL JOIST TO COLUMN CONNECTION AT INTERIOR COLUMN

SCALE = 1" = 1'-0"



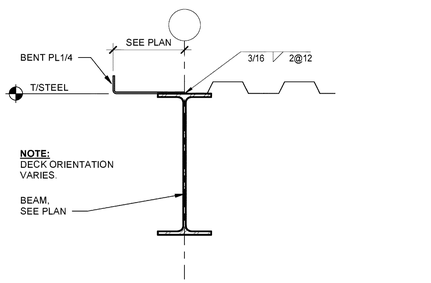
11 TYPICAL JOIST BEARING @ EXTERIOR BEAM

SCALE = 1" = 1'-0"



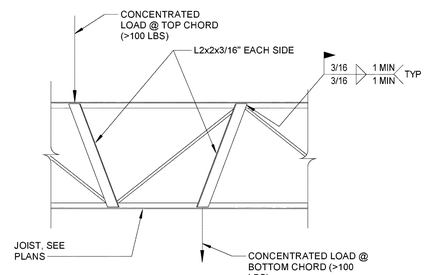
12 TYPICAL JOIST BEARING @ INTERIOR BEAM

SCALE = 1" = 1'-0"



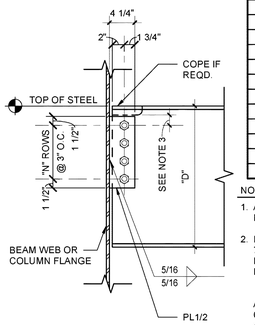
10 SECTION

SCALE = 1" = 1'-0"



13 TYPICAL JOIST REINFORCING DETAIL

SCALE = 1" = 1'-0"



SINGLE PLATE BEAM CONN. SCHEDULE - 7/8" Ø BOLTS	
NOMINAL BEAM SIZE "D"	MIN. NUMBER OF BOLT ROWS "N"
W8	2
W10	2
W12	3
W14	3
W16	4
W18	5
W21	6
W24	6
W27	7
W30	8
W33	9
W36	10

NOTE:

1. ALL BOLTS SHALL BE F1852 UNLESS NOTED OTHERWISE.
2. PROVIDE MINIMUM BOLT NUMBER AND 7/8" Ø BOLTS TYPICAL. WHERE BOLT ROWS AND / OR BOLT SIZE ARE INDICATED I.E. 4 - 1" Ø

   AT CONNECTION, INCREASE NUMBER OF ROWS AND / OR BOLT DIAMETER AS INDICATED.
3. MIN. DISTANCE FROM TOP BOLT TO A COPE SHALL BE 1 1/2". INCREASE DISTANCE FROM TOP OF BEAM TO TOP OF BOLT, IF REQUIRED.
4. USE ONLY SHORT HORIZONTAL SLOTTED HOLES.
5. USE STANDARD HOLES AT BRACE CONNECTIONS.

14 TYPICAL SINGLE PLATE SHEAR CONNECTION DETAIL

SCALE = 1" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.

S500

TYPICAL STEEL SECTIONS AND DETAILS

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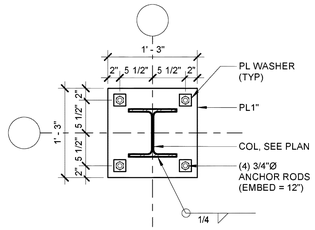

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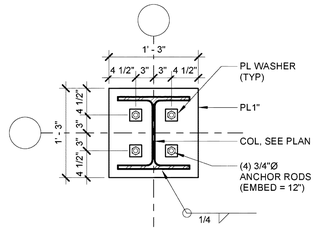

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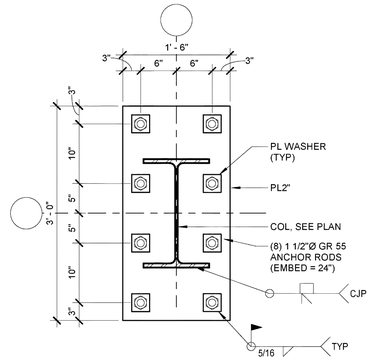

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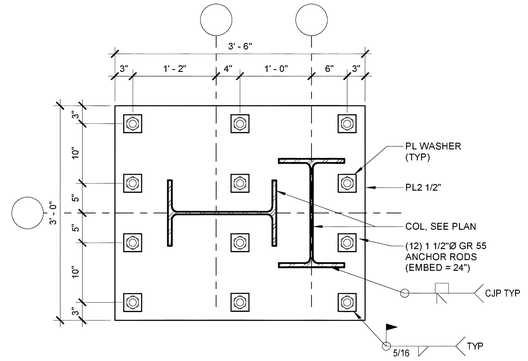

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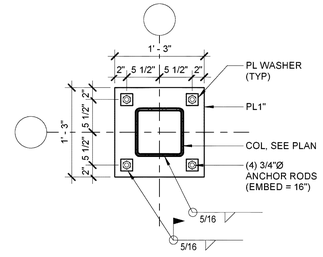

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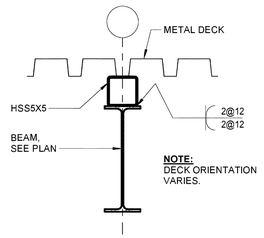

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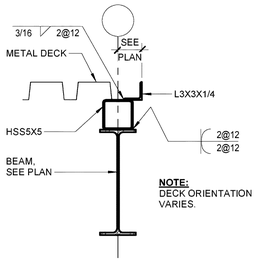

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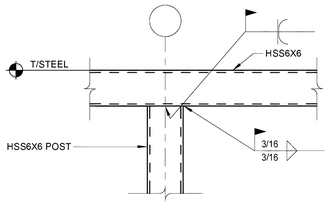

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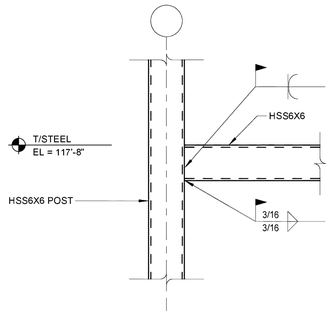

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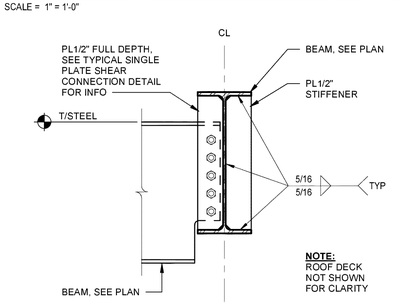

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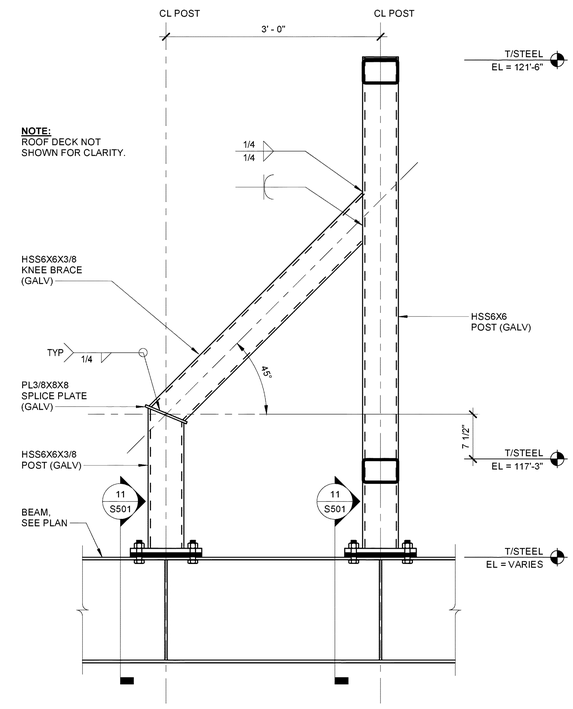

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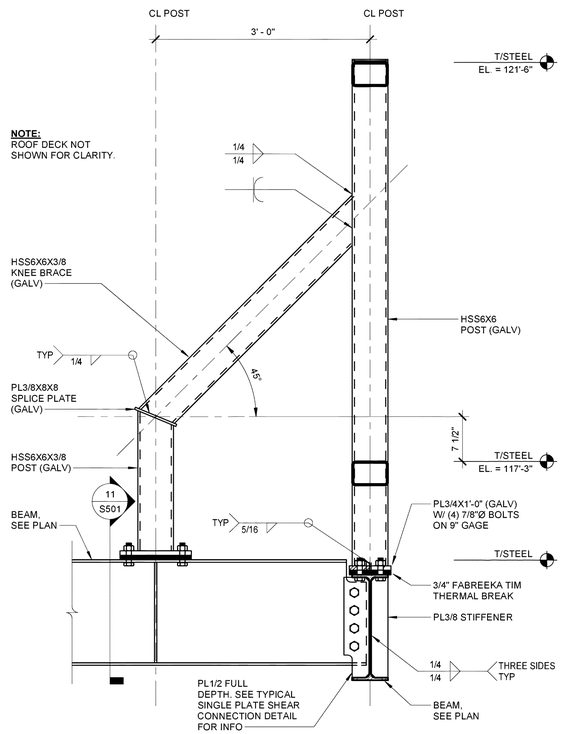

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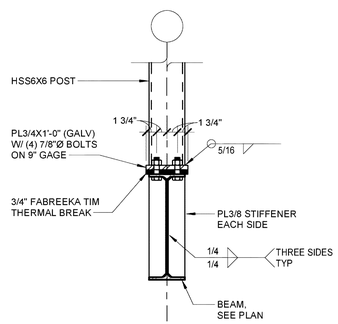

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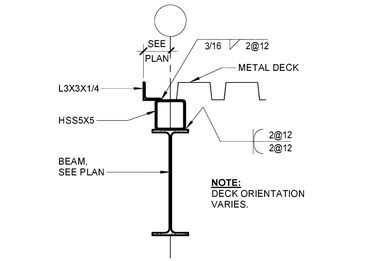

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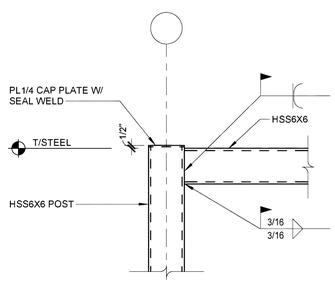

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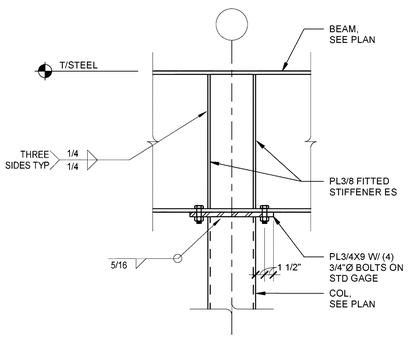

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Revision No.	Description	Date

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WP10	12/23/2019	CWS

Drawing No.
S501
STEEL SECTIONS AND DETAILS

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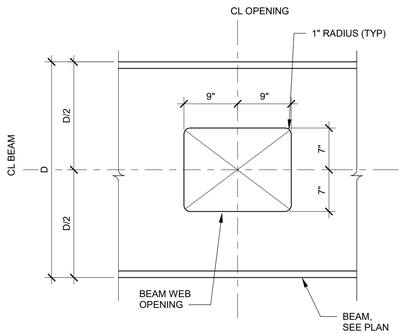

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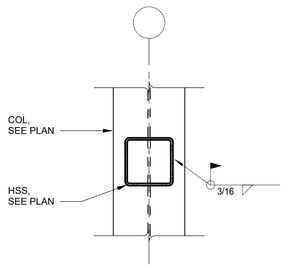

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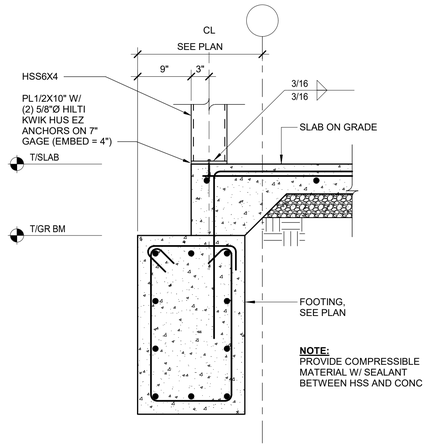

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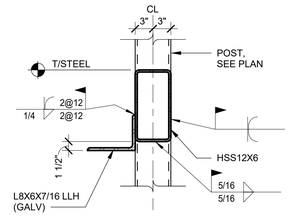

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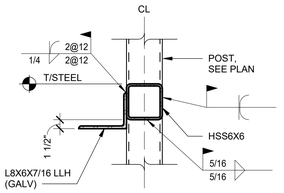

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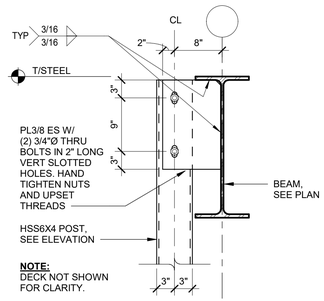

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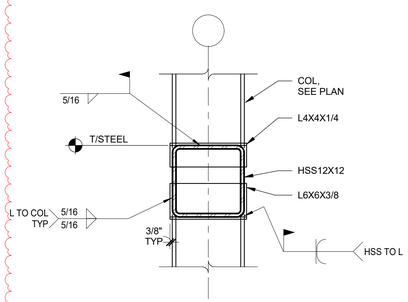

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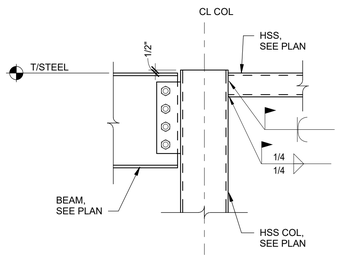

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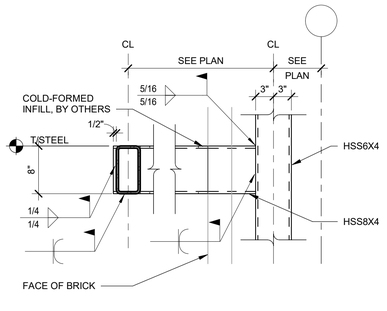

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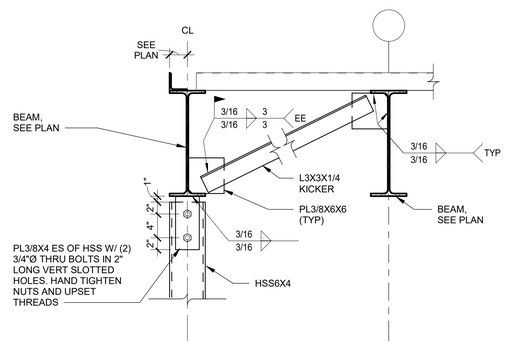

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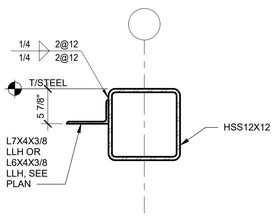

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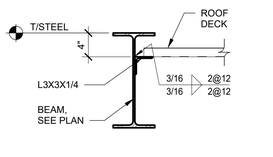

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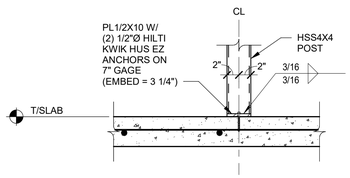

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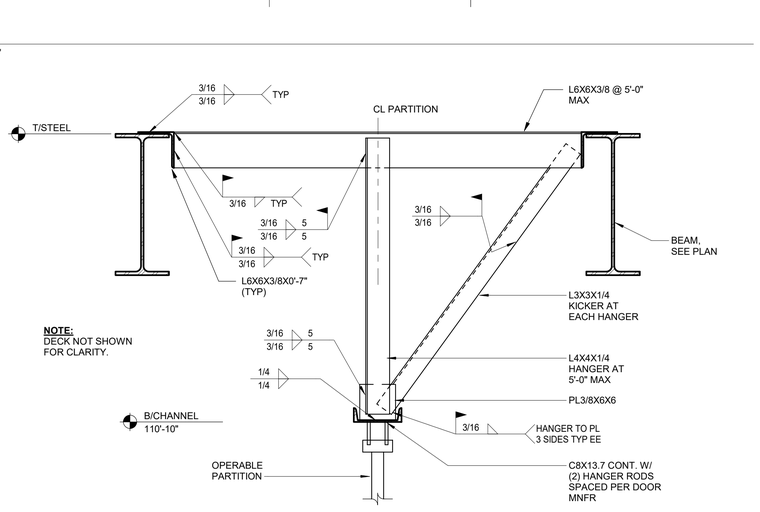

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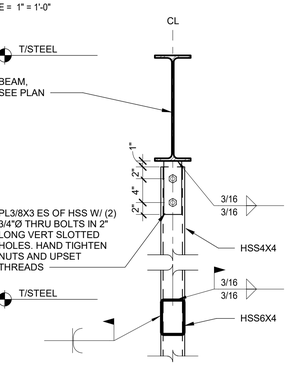

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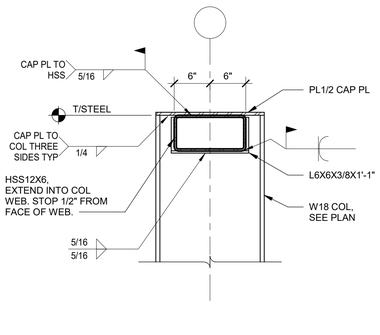

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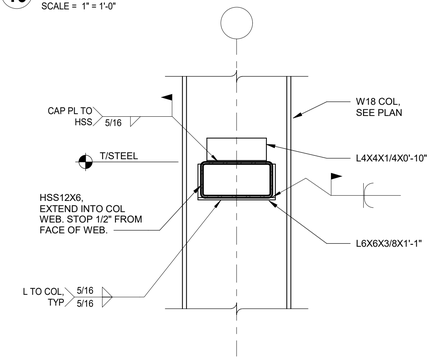

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Revision No.	Description	Date
1	ADDENDUM 1	1/13/2020

Project No.	Date	Drawn
WP10	12/23/2019	CWS

Drawing No.
S502
STEEL SECTIONS AND DETAILS

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DIVISION 28 SPECIFICATIONS:

28 05 00 - COMMON WORK FOR ELECTRONIC SAFETY AND SECURITY

1. FIELD COORDINATE LOCATIONS OF SECURITY SYSTEM WITH OWNER.

28 31 00 - FIRE DETECTION AND ALARM.

1. AN ADDRESSABLE FIRE ALARM SYSTEM SHALL BE INSTALLED UNDER THE DIVISION 26 CONTRACTOR.

2. PROVIDE FIRE ALARM SYSTEM INITIATION DEVICES AND NOTIFICATION APPLIANCES, MONITORING, AND CONTROL DEVICES AS INDICATED ON THE DRAWINGS.

3. ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72 AND THE NATIONAL ELECTRICAL CODE.

4. FIRE ALARM SYSTEM WIRING SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SYSTEM CONNECTIONS FOR INITIATING DEVICES SHALL BE CLASS B, STYLE A; NOTIFICATION APPLIANCES CIRCUITS SHALL BE CLASS B STYLE Y. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED COMPLETELY IN EMT CONDUIT. PAINT FIRE ALARM JUNCTION BOXES AND CONDUIT FITTINGS RED.

5. FIRE ALARM SYSTEM EQUIPMENT SUBMITTALS SHALL INCLUDE PRODUCT DATA SHEETS, EQUIPMENT WIRING DIAGRAMS, SEQUENCE OF OPERATIONS, VOLTAGE DROP, AND BATTERY CALCULATIONS.

6. FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA STANDARDS AND MANUFACTURER'S RECOMMENDATIONS BY PERSONS WHO ARE QUALIFIED AND EXPERIENCED IN THE INSTALLATION, INSPECTION AND TESTING OF FIRE ALARM SYSTEMS. INSTALLER SHALL HAVE A MINIMUM OF 3-YEARS OF EXPERIENCE. PERFORM OPERATIONAL SYSTEM TESTS UPON COMPLETION OF INSTALLATION. CORRECT DEFICIENCIES AND RETEST PRIOR TO OWNER OCCUPATION OF BUILDING. PROVIDE A COMPLETED NFPA 72 RECORD OF COMPLETION FORM TO THE OWNER AND AUTHORITY HAVING JURISDICTION.

DIVISION 27 SPECIFICATIONS:

27 05 00 - COMMON WORK RESULTS FOR COMMUNICATIONS

1. THE CONTRACTOR SHALL INSTALL CONDUIT ROUGH-IN FOR BACKBONE CAT 6 CABLING PROVIDED BY OWNER.

2. THE DIVISION 26 CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ALL NEW UNDERGROUND TELECOMMUNICATIONS CONDUITS REQUIRED FOR COMMUNICATION SERVICES TO NEW BUILDING REFERENCE THROUGHOUT THE PROJECT.

3. REFER TO SCHEDULES AND SPECIFICATIONS FOR CONDUIT SIZES.

4. ALL INSTALLATION SHALL COMPLY WITH BICSI STANDARDS.

5. PRIOR TO ANY INSTALLATION, CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE/IT COORDINATOR TO CONFIRM/VERIFY EQUIPMENT RACK INSTALLATION LOCATION(S).

6. PROVIDE A PRE-CONSTRUCTION TRADE MEETING WITH A REPRESENTATIVE FROM THE NETWROKING DEPARTMENT PRIOR TO PERFORMING ANY WORK.

7. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

DIVISION 26 SPECIFICATIONS:

26 05 00 - COMMON WORK FOR ELECTRICAL (4)

1. ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

2. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

4. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS.

5. CONDUIT/CONDUCTOR LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, LIGHT FIXTURES, CONDUITS, ETC.

6. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

7. MAINTAIN ALL CLEARANCES REQUIRED BY ELECTRICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.

8. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.

9. COORDINATE LIGHT FIXTURE LOCATIONS WITH OWNER, STRUCTURE, AND OTHER TRADES PRIOR TO ROUGH-IN.

10. REFER TO SPECIFICATION SHEET SECTIONS FOR ADDITIONAL REQUIREMENTS.

DIVISION 23 SPECIFICATIONS:

23 05 00 - COMMON WORK FOR HEATING, VENTILATION, AND AIR CONDITIONING (4)

1. ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED MECHANICAL CONTRACTOR AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

2. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

4. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS.

5. DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, LIGHT FIXTURES, CONDUITS, ETC.

6. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

7. MAINTAIN ALL CLEARANCES REQUIRED BY MECHANICAL EQUIPMENT. COORDINATE WITH ELECTRICAL AND PLUMBING CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.

8. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.

9. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

DIVISION 22 SPECIFICATIONS:

22 05 00 - COMMON WORK FOR PLUMBING (4)

1. ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED PLUMBING CONTRACTORS AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2018 INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

2. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

4. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS.

5. PIPING LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, DUCTWORK, LIGHT FIXTURES, CONDUITS, ETC.

6. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

7. MAINTAIN ALL CLEARANCES REQUIRED BY PLUMBING EQUIPMENT. COORDINATE WITH ELECTRICAL AND HVAC CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.

8. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIALS FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.

9. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENT.

DIVISION 21 SPECIFICATIONS:

21 05 00 - COMMON WORK FOR FIRE SPRINKLER SYSTEMS.

1. PROVIDE COMPLETE PREACTION (DOUBLE INTERLOCKED) FIRE SPRINKLER SYSTEM TO MEET REQUIREMENTS OF NFPA 13.

2. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE THE DESIGN, MATERIALS, EQUIPMENT, FABRICATION, INSTALLATION, ETC. FOR A PREACTION (DOUBLE INTERLOCKED) ELECTRIC/PNEUMATIC RELEASE FIRE SPRINKLER SYSTEM COMPLETE WITH FIRE DEPARTMENT CONNECTIONS AND WET SYSTEM. REFER TO SCHEDULE IN PART 3 EXECUTION IN SPECFICATION SECTION 21 13 00. ALL PORTIONS OF THE FIRE SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR/ENGINEER. ANY PIPING SHOWN ON THE DRAWINGS IS FOR REFERENCE ONLY.

3. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.

4. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN FLOW READINGS FOR PURPOSES OF DESIGN.

5. FIRE SPRINKLER WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR WITH AT LEAST 2 YEARS OF INSTALLATION EXPERIENCE ON PROJECTS WITH FIRE PROTECTION WORK SIMILAR TO THAT REQUIRED FOR THE PROJECT.

6. THE FIRE SPRINKLER SYSTEM SHALL BE ENGINEERED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE FOR WHICH THE PROJECT IS BEING CONSTRUCTED IN. THE DESIGN DRAWINGS AND CALCULATIONS SHALL BE STAMPED WITH THEIR MISSOURI SEAL AND SIGNATURE.

7. ALL FIRE SPRINKLER SYSTEM MATERIALS SHALL BE UL LISTED.

8. THE FIRE SPRINKLER SYSTEM CONTRACTOR SHALL ENGINEER AND INSTALL THE FIRE SPRINKLER SYSTEM AS REQUIRED TO PROVIDE PROPER COVERAGE OF THE OCCUPANCY OF THE BUILDING.

9. PROVIDE FIRE DEPARTMENT CONNECTIONS IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.

10. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

11. MAINTAIN ALL CLEARANCES REQUIRED BY FIRE SPRINKLER EQUIPMENT. COORDINATE WITH PLUMBING, ELECTRICAL AND HVAC CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.

12. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIALS FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.

13. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENT.

DIV 28 SECURITY LEGEND

CR	CARD READER
CM	CAMERA
DR	DOOR RELEASE
IE	INTERCOM ENTRY
KP	KEYPAD
MD	MOTION DETECTOR
PT	POWER TRANSFORMER
PB	PUSH BUTTON
XB	REQUEST FOR EXIT BUTTON
XM	REQUEST FOR EXIT MOTION
TG	TOGGLE SWITCH

DIV 28 FIRE ALARM LEGEND

PS	PULL STATION
V	WALL VISUAL
V	CEILING VISUAL
AV	WALL AUDIO VISUAL
AV	CEILING AUDIO VISUAL
SV	WALL SPEAKER VISUAL
SV	CEILING SPEAKER VISUAL
TS	TAMPER SWITCH
FS	FLOW SWITCH
B	FIRE ALARM BELL
R	FIRE ALARM RELAY
PN	FIRE ALARM PANEL
AN	FIRE ANNUNCIATOR PANEL
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
DD	DUCT DETECTOR

DIV 27 TELECOM LEGEND

T X	TELECOMMUNICATIONS OUTLET: MAY BE USED FOR VOICE, DATA, FAX, CABLE TV, OR ANY COMBINATION. COVER PLATE AND JACKS BY OTHERS. REFER TO COMMUNICATIONS DEVICE DETAILS

DIV 27 A/V LEGEND

B	BELL/CHIME
PB	PUSH BUTTON
CS	CEILING SPEAKER
WS	WALL SPEAKER
CP	CONTROL PANEL
IP	INPUT

DIVISION 26 POWER LEGEND

J	JUNCTION BOX
	DUPLEX, 20-AMP RECEPTACLE
GF	DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, 20-AMP RECEPTACLE
WP	DUPLEX WITH WEATHERPROOF ENCLOSURE, 20-AMP RECEPTACLE
AC	DUPLEX INSTALLED ABOVE COUNTER, 20-AMP RECEPTACLE
	SIMPLEX, 20-AMP RECEPTACLE
14-30	SIMPLEX WITH NEMA CONFIGURATION AS INDICATED
	DOUBLE DUPLEX, 20-AMP RECEPTACLE
	FLOOR BOX WITH DEVICES AS INDICATED
	LIGHTING AND POWER PANELBOARD
	DISTRIBUTION POWER PANELBOARD
	ELECTRICAL EQUIPMENT HATCHING. INDICATES NEW EQUIPMENT TO BE PROVIDED AND INSTALLED. REFER TO ELECTRICAL SCHEDULE(S).

DIV 26 LIGHTING LEGEND

$	SINGLE POLE, 20-AMP LIGHT SWITCH
$3	THREE-WAY, 20-AMP LIGHT SWITCH
$4	FOUR-WAY, 20-AMP LIGHT SWITCH
$D	DIMMER SWITCH
$2	TWO POLE, 20-AMP SWITCH
	EXIT LIGHT WITHOUT EMERGENCY HEADS
NL	NL - UNSWITCHED "NIGHT LIGHT" FIXTURE

DIVISION 23 HVAC LEGEND

	MITER ELBOW
	FLEX DUCT
	RECTANGULAR TO ROUND TAKE-OFF WITH DAMPER
	SUPPLY DIFFUSER
	RETURN GRILLE
	FLOOR REGISTER
	MANUAL BALANCING DAMPER
	CONTROL DAMPER WITH ACTUATOR
	THERMOSTAT
	HVAC EQUIPMENT HATCHING. INDICATES NEW EQUIPMENT TO BE PROVIDED AND INSTALLED. REFER TO MECHANICAL SCHEDULE(S).
	SUPPLY ELBOW UP
	RETURN ELBOW UP
24/12	DOUBLE WALL OVAL DUCT
24 x 12	RECTANGULAR DUCT
24"ø	ROUND DUCT

DIV 22 PLUMBING LEGEND

	VENT PIPING
SAN	SANITARY WASTE PIPING
G	NATURAL GAS PIPING
D	CONDENSATE DRAIN PIPING
RD	ROOF DRAIN PIPING
F	FIRE SPRINKLER PIPING
-	DOMESTIC COLD WATER PIPING
- -	DOMESTIC HOT WATER PIPING
- - -	DOMESTIC HOT WATER RETURN PIPING
	MANUAL SHUT-OFF VALVE
	REDUCER
	PRESSURE REDUCING VALVE
	FINISH FLOOR OR FINISH GRADE CLEANOUT
	FLOOR DRAIN
	PLUMBING FIXTURE HATCHING. INDICATES NEW PLUMBING FIXTURE TO BE PROVIDED AND INSTALLED. REFER TO PLUMBING FIXTURE SCHEDULE

MEP GENERAL ABBREVIATION LEGEND

?	KEYNOTE TAG
?	CONDUIT AND CONDUCTOR TAG
?	TELECOM AND AUDIO/VISUAL TAG
TELECOM	TELECOM CONDUIT
AV	AUDIO/VISUAL CONDUIT
SECURITY	SECURITY CONDUIT
UGE	UNDERGROUND ELECTRICAL
OHE	OVERHEAD ELECTRICAL
G	NATURAL GAS PIPING
W	WATER MAIN PIPING
SAN	SANITARY WASTE PIPING
IRR	IRRIGATION PIPING

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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PROFESSIONAL ENGINEER
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Revision No.	Description	Date
4	SI #02	03-13-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
MEP100
MECH & ELEC TITLE SHEET

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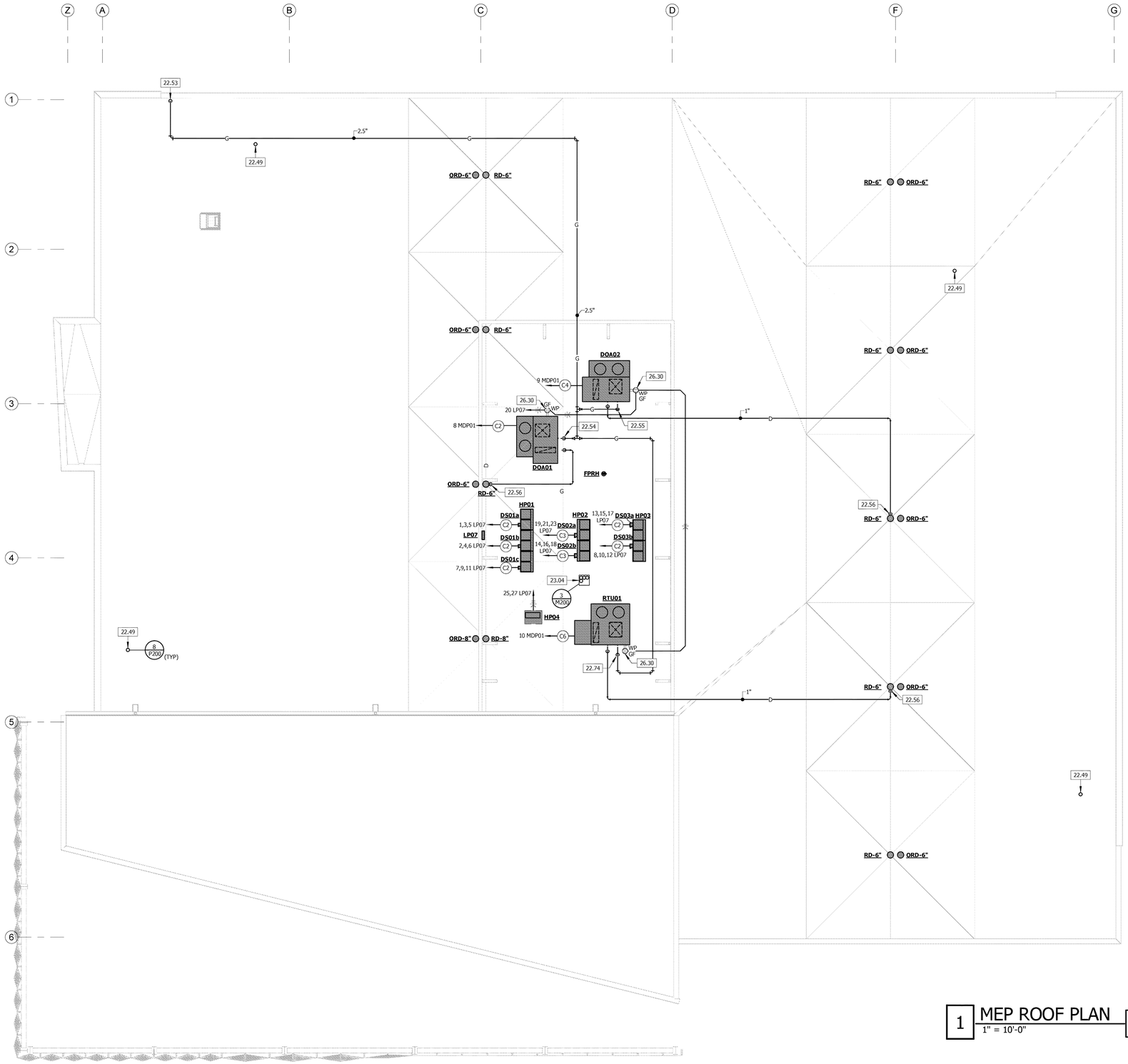

1 MEP ROOF PLAN
1" = 10'-0"

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
22.49	3" VENT THROUGH ROOF. COORDINATE ROOFING PENETRATION WITH ROOFING CONTRACTOR. SEAL WEATHER TIGHT. MAINTAIN 10 FEET CLEARANCE FROM OUTSIDE AIR INTAKE(S).
22.53	2.5" NATURAL GAS DOWN THROUGH ROOF. COORDINATE ROOF PENETRATION WITH ROOFING CONTRACTOR. SEAL WEATHER TIGHT.
22.54	CONNECT 1.25" NATURAL GAS TO DOAS UNIT. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
22.55	CONNECT 2" NATURAL GAS TO DOAS UNIT. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
22.56	TERMINATE 1" CONDENSATE DRAIN AT ROOF DRAIN.
22.74	CONNECT 1.5" NATURAL GAS TO ROOFTOP UNIT. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
23.04	PROVIDE PIPE CURB TO ROUTE REFRIGERANT LINES, CONTROL WIRING, AND CONDUIT DOWN FROM ASSOCIATED HEAT PUMP.
26.30	PROVIDE CONNECTION TO NON-POWERED RECEPTACLE PROVIDED WITH UNIT.

CONDUIT AND CONDUCTORS

KEY VALUE	SIZE AND QUANTITY
C2	(3) #6 AND (1) #8 GROUND IN 1" CONDUIT.
C3	(3) #4 AND (1) #8 GROUND IN 1.25" CONDUIT.
C4	(3) #2/0 AND (1) #6 GROUND IN 2" CONDUIT.
C6	(3) #2 AND (1) #6 GROUND IN 1.5" CONDUIT.

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	Author

Drawing No.

MEP200

MEP ROOF PLAN

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TELECOM CONDUITS

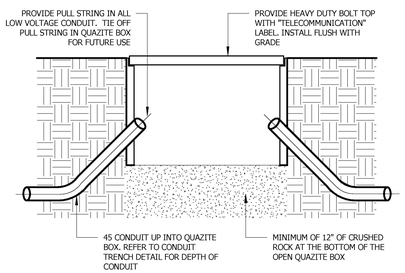
KEY VALUE	SIZE AND QUANTITY
T4	(3) 4" CONDUIT(S) WITH PULL STRING FOR AT&T CONDUITS AND (2) 2" CONDUITS FOR FIRE ALARM TO FIRE SPRINKLER VAULT.
T5	(3) 4" CONDUIT(S) WITH PULL STRING.
T6	(2) 2" CONDUIT(S) WITH PULL STRING.

CONDUIT AND CONDUCTORS

KEY VALUE	SIZE AND QUANTITY
C5	(2) #8 AND (1) #10 GROUND IN 0.75" CONDUIT.

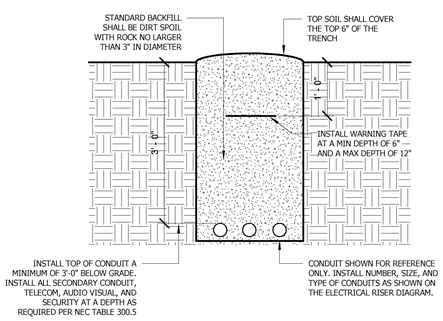
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.55	CIRCUIT THROUGH LIGHTING CONTACTOR LC04.
26.77	CIRCUIT HOMERUN DIRECTLY BACK TO PANELBOARD. NO DAISY CHAINING IS ALLOWED THROUGH OTHER PARKING LOT LIGHT CIRCUITS.
26.78	208/120-VOLT 3-PHASE UTILITY TRANSFORMER. COORDINATE SIZE AND LOCATION WITH UTILITY COMPANY. REFER TO CIVIL DRAWINGS FOR PRIMARY UNDERGROUND ROUTING.
26.79	PROVIDE OPEN BOTTOM INGRADE 30X24 QUAZITE BOX FOR TELECOM CONDUITS. TOP OF BOX SHALL SAY "TELECOM".
26.80	ROUTE CONDUIT TO IT ROOM. REFER TO ENLARGED AMH AND DATA ROOM DETAIL.
26.81	CAP CONDUITS FOR CONNECTION TO AT&T. CONFIRM SERVICE ENTRANCE WITH SERVICE PROVIDER.
28.10	PROVIDE TAMPER SWITCH AND FLOW SWITCH IN FIRE SPRINKLER BACKFLOW VAULT. CONNECT OT THE FIRE ALARM SYSTEM.



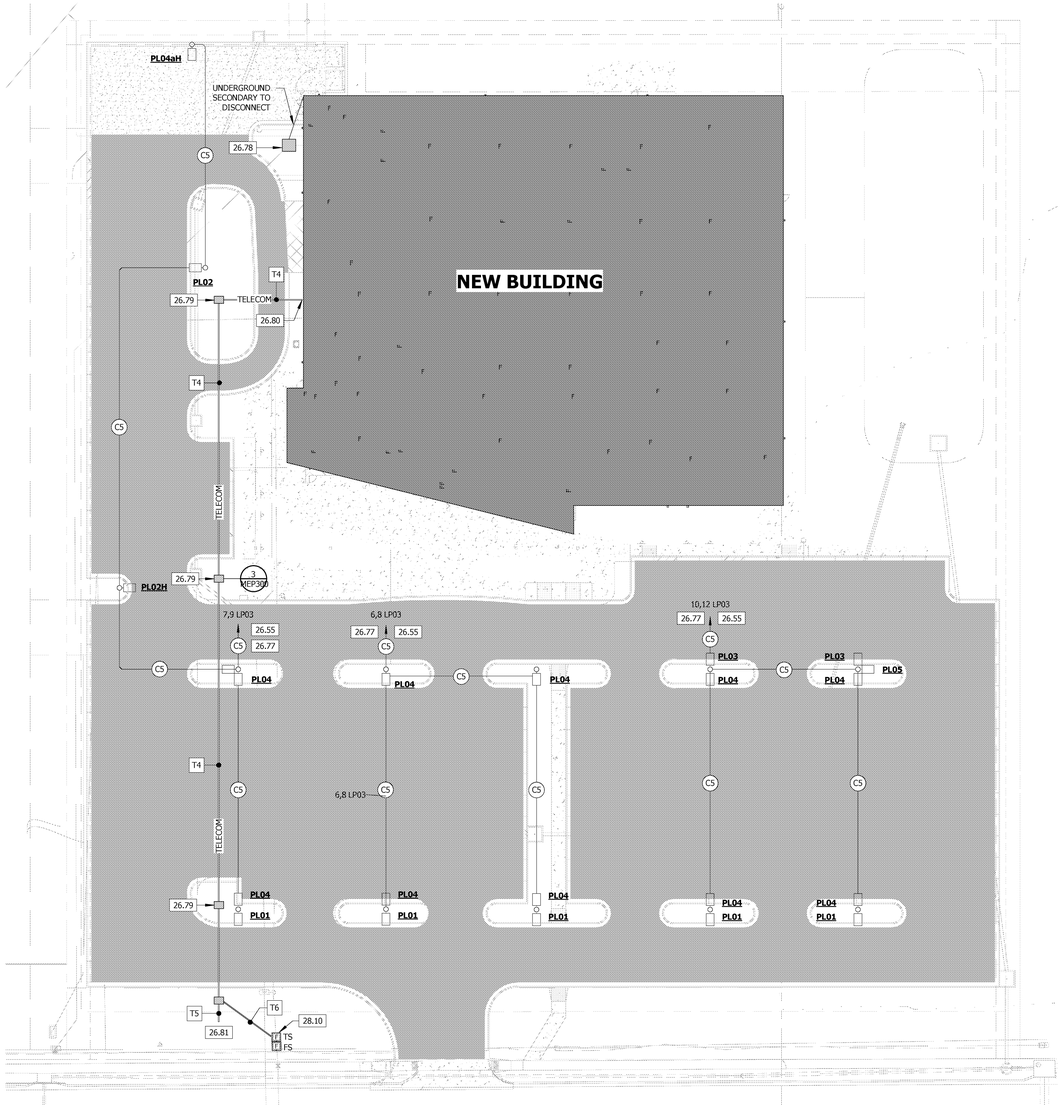
4 INGRADE TELECOM BOX

NOT TO SCALE



3 CONDUIT TRENCH

NOT TO SCALE



1 MEP SITE PLAN

1" = 30'-0"

WATER SERVICE TABLE:

WATER SERVICE AMOUNTS FOR NEW BUILDING:

1. NEW TOTAL WATER SERVICE FIXTURE UNITS = 120
2. ESTIMATED NEW GPM FOR SERVICE = 73

GAS LOAD TABLE:

GAS LOAD FOR NEW BUILDING

1. PROVIDE 7" WATER COLUMN NATURAL GAS SERVICE TO NEW BUILDING.
2. COORDINATE GAS METER SIZE AND INSTALLATION WITH UTILITY COMPANY.
3. NEW GAS LOAD TOTALS.
   - A. WATER HEATER WH1 = 125 MBH
   - B. DEDICATED OUTSIDE AIR UNIT DOAU01 = 200 MBH
   - C. DEDICATED OUTSIDE AIR UNIT DOAU02 = 450 MBH
   - D. ROOFTOP UNIT = 300 MBH

   TOTAL = 1075 MBH

GENERAL UTILITY NOTES:

1. THE CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY AND ARRANGE FOR SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF UTILITY COMPANY AND LOCAL AUTHORITIES.

2. THE CONTRACTOR SHALL CONTACT THE LOCAL WATER AND GAS UTILITY COMPANY AND ARRANGE FOR SERVICE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL INCLUDE ALL FEES, CHARGES, ETC. INCURRED BY THE UTILITY COMPANY INTO BID. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS REQUIRED FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

3. THE CONTRACTOR SHALL CONTACT THE LOCAL SANITARY SEWER UTILITY COMPANY AND ARRANGE FOR SERVICE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL INCLUDE ALL FEES, CHARGES, ETC. INCURRED BY THE UTILITY COMPANY INTO BID. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS REQUIRED FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, FEES, PERMITS, ETC. REQUIRED FOR TEMPORARY UTILITY SERVICES.

5. UTILITY INFORMATION SHOWN ON DRAWINGS IS INCOMPLETE. PRIOR TO ANY EXCAVATION, LOCATE ALL ABOVE AND UNDERGROUND UTILITIES.

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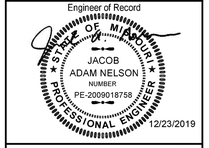

12/23/2019

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	JN

Drawing No.

MEP300
MEP SITE PLAN

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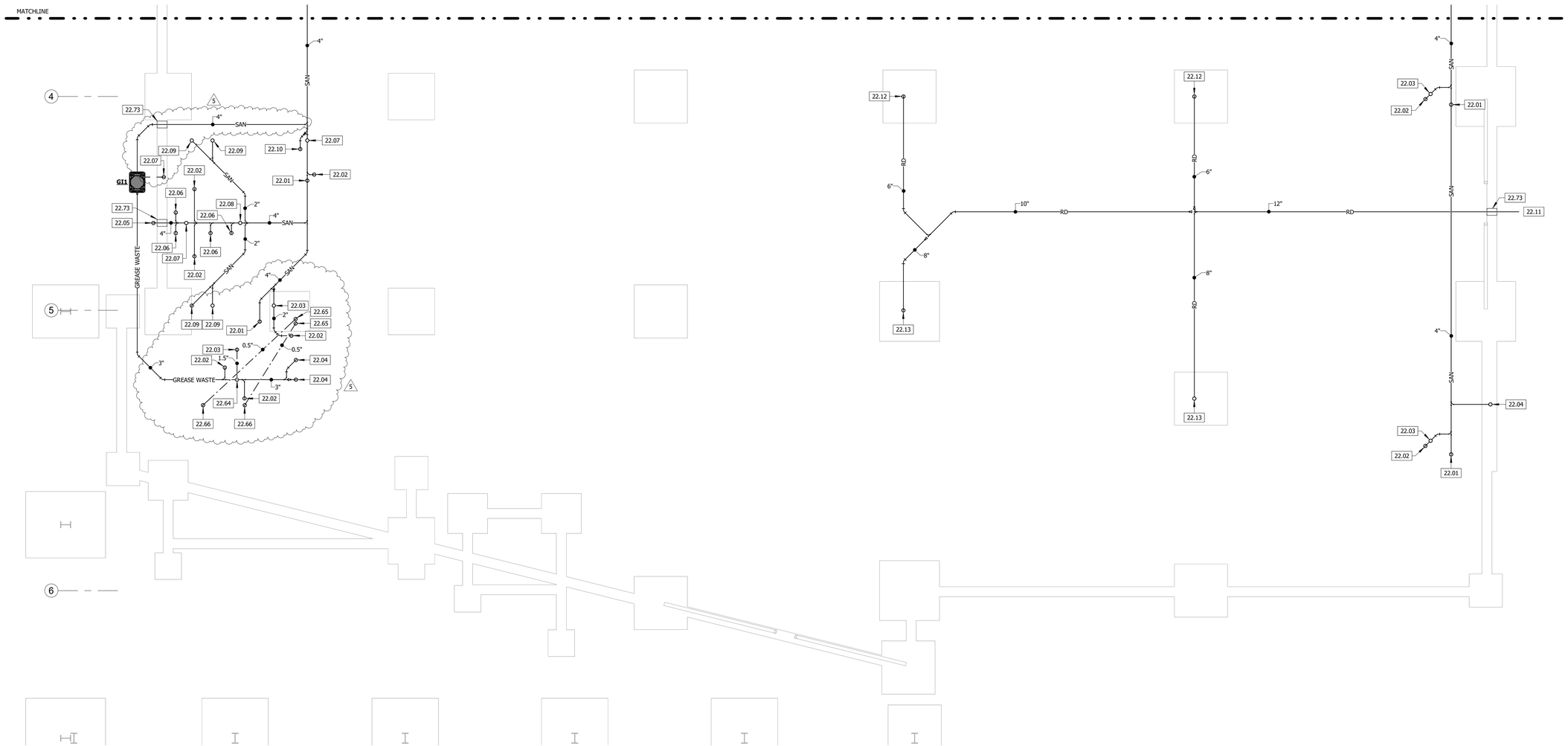
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
22.01	4" WASTE UP TO FINISH FLOOR CLEANOUT,
22.02	2" TRAPPED WASTE UP TO FLOOR DRAIN.
22.03	1.5" VENT UP.
22.04	2" WASTE UP TO SINK.
22.05	4" WASTE UP TO FINISH GRADE CLEANOUT,
22.06	4" WASTE UP TO WATER CLOSET.
22.07	2" VENT UP.
22.08	2" WASTE UP.
22.09	2" WASTE UP TO LAVATORY.
22.10	3" TRAPPED WASTE UP TO MOP BASIN.
22.11	REFER TO CIVIL PLAN FOR CONTINUATION.
22.12	6" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING.
22.13	8" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING.
22.64	1.5" VENT CONNECTION FROM TOP OF 3" GREASE WASTE.
22.65	0.5" COLD WATER UP TO VALVE MANIFOLD. PROVIDE PEX PIPING UNDERGROUND.
22.66	0.5" COLD WATER UP TO SUPPLY BOX. PROVIDE PEX PIPING UNDERGROUND.
22.73	PROVIDE SLEEVE THROUGH CONTINUOUS FOOTING.



1 UNDERGROUND PLUMBING PLAN - AREA A
1/8" = 1'-0"

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NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019

JACOB A NELSON, PE MO PE-2009018758

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Revision No.	Description	Date
5	SI #03	03-26-2020

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
P100
UNDERGROUND PLUMBING PLAN - AREA A

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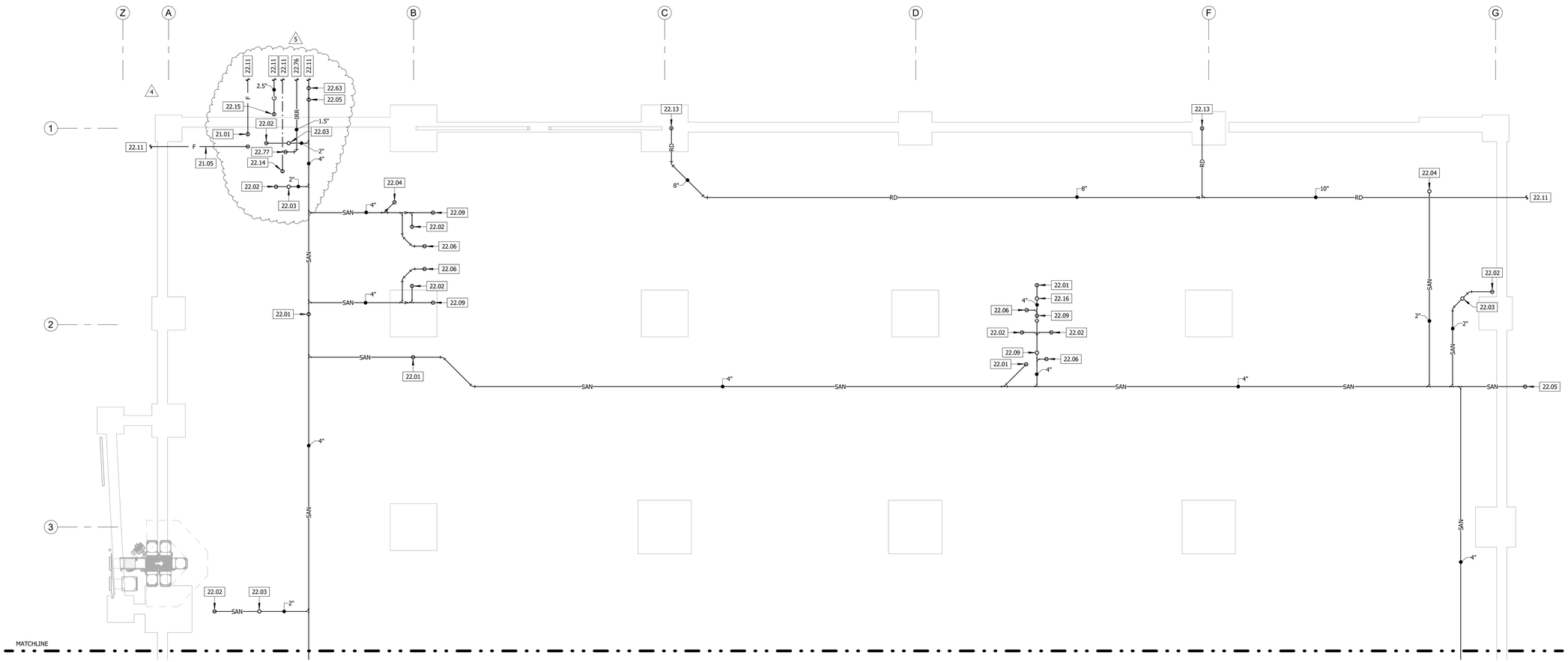
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
21.01	FIRE SPRINKLER SERVICE UP. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
21.05	FIRE SPRINKLER LINE TO POST MOUNTED FIRE DEPARTMENT CONNECTION. COORDINATE WITH FIRE SPRINKLER CONTRACTOR.
22.01	4" WASTE UP TO FINISH FLOOR CLEANOUT,
22.02	2" TRAPPED WASTE UP TO FLOOR DRAIN.
22.03	1.5" VENT UP.
22.04	2" WASTE UP TO SINK.
22.05	4" WASTE UP TO FINISH GRADE CLEANOUT,
22.06	4" WASTE UP TO WATER CLOSET.
22.09	2" WASTE UP TO LAVATORY.
22.11	REFER TO CIVIL PLAN FOR CONTINUATION.
22.13	8" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING.
22.14	2" WATER SERVICE UP.
22.15	NATURAL GAS SERVICE UP. COORDINATE WITH UTILITY COMPANY.
22.16	2" WASTE UP TO DRINKING FOUNTAIN.
22.63	6" WASTE RISER UP TO SAMPLING PORT. REFER TO DETAIL 2/P300.
22.76	REFER TO LANDSCAPE PLAN FOR CONTINUATION.
22.77	1.5" IRRIGATION SERVICE UP BY LANDSCAPE SPRINKLER CONTRACTOR.



1 UNDERGROUND PLUMBING PLAN - AREA B
1/8" = 1'-0"

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Revision No.	Description	Date
4	SI #02	03-13-2020
5	SI #03	03-26-2020

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
P101
UNDERGROUND PLUMBING PLAN - AREA B

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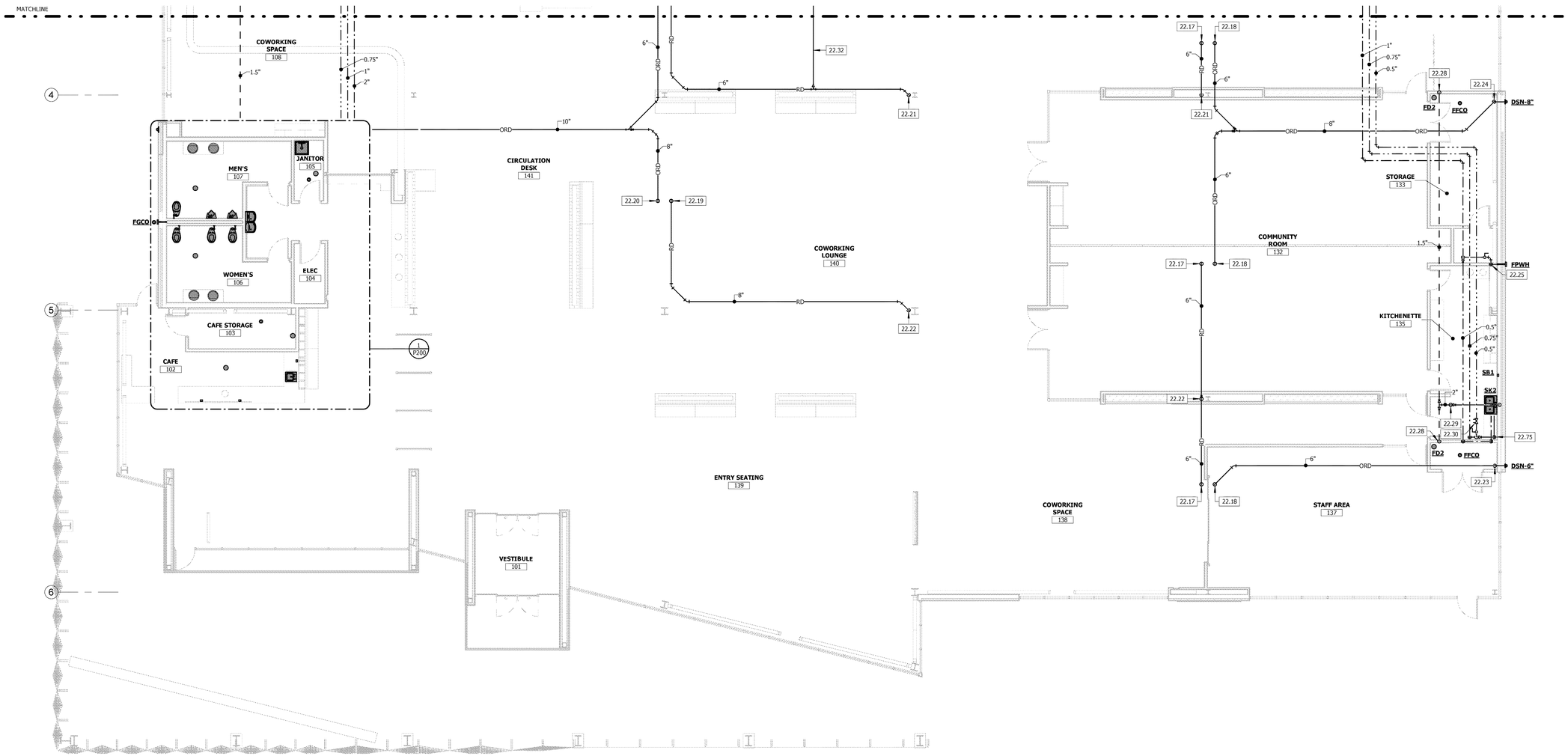
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
22.17	6" ROOF DRAIN LEADER UP.
22.18	6" OVERFLOW ROOF DRAIN LEADER UP.
22.19	8" ROOF DRAIN LEADER UP.
22.20	8" OVERFLOW ROOF DRAIN LEADER UP.
22.21	6" ROOF DRAIN LEADER DOWN.
22.22	8" ROOF DRAIN LEADER DOWN.
22.23	6" OVERFLOW ROOF DRAIN LEADER DOWN TO DOWNSPOUT NOZZLE.
22.24	8" OVERFLOW ROOF DRAIN LEADER DOWN TO DOWNSPOUT NOZZLE.
22.25	0.75" COLD WATER DOWN TO FREEZE PROOF WALL HYDRANT.
22.28	1.5" VENT DOWN.
22.29	2" VENT UP TO 3" VENT THROUGH ROOF.
22.30	PROVIDE CIRCUIT SETTER BALANCE VALVE. BALANCE TO 1" GPM.
22.32	ROOF HYDRANT DRAIN. ROUTE TO ROOF DRAIN. SIZE PER FREEZE PROOF ROOF HYDRANT MANUFACTURERS REQUIREMENTS.
22.75	0.5" COLD AND HOT WATER AND 1.5" VENT DOWN TO SINK. ROUTE IN MILLWORK TO SINK. EXTENT 0.5" TO ICE MAKER BOX.



1 PLUMBING PLAN - AREA A
1/8" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
P102
PLUMBING PLAN - AREA A

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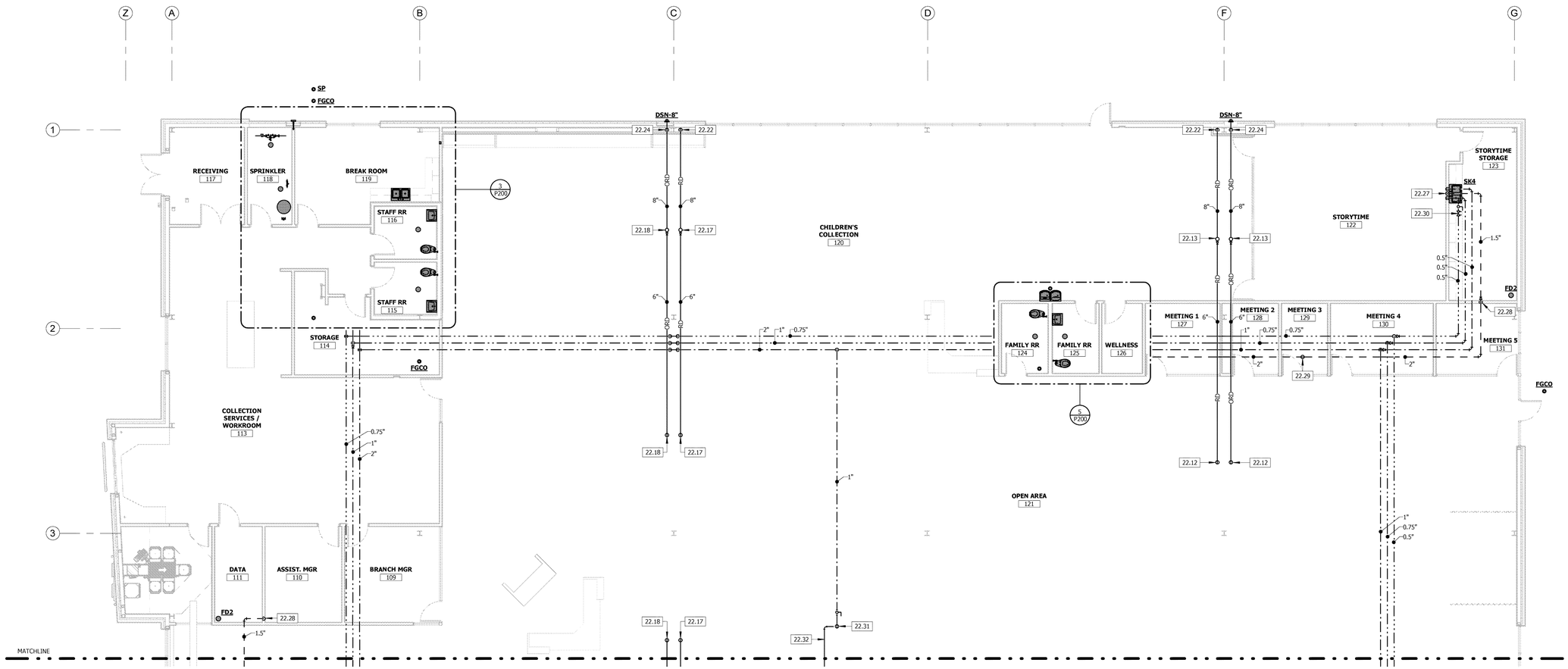
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
22.12	6" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING.
22.13	8" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING.
22.17	6" ROOF DRAIN LEADER UP.
22.18	6" OVERFLOW ROOF DRAIN LEADER UP.
22.22	8" ROOF DRAIN LEADER DOWN.
22.24	8" OVERFLOW ROOF DRAIN LEADER DOWN TO DOWNSPOUT NOZZLE.
22.27	0.5" COLD AND HOT WATER AND 1.5" VENT DOWN TO SINK.
22.28	1.5" VENT DOWN.
22.29	2" VENT UP TO 3" VENT THROUGH ROOF.
22.30	PROVIDE CIRCUIT SETTER BALANCE VALVE. BALANCE TO 1" GPM.
22.31	1" COLD WATER UP TO FREEZE PROOF ROOF HYDRANT. ROUTE DRAIN FROM HYDRANT DOWN TO ROOF DRAIN.
22.32	ROOF HYDRANT DRAIN. ROUTE TO ROOF DRAIN. SIZE PER FREEZE PROOF ROOF HYDRANT MANUFACTURERS REQUIREMENTS.



1 PLUMBING PLAN - AREA B

1/8" = 1'-0"

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Project No.	Date	Drawn
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Drawing No.
P103
PLUMBING PLAN - AREA B

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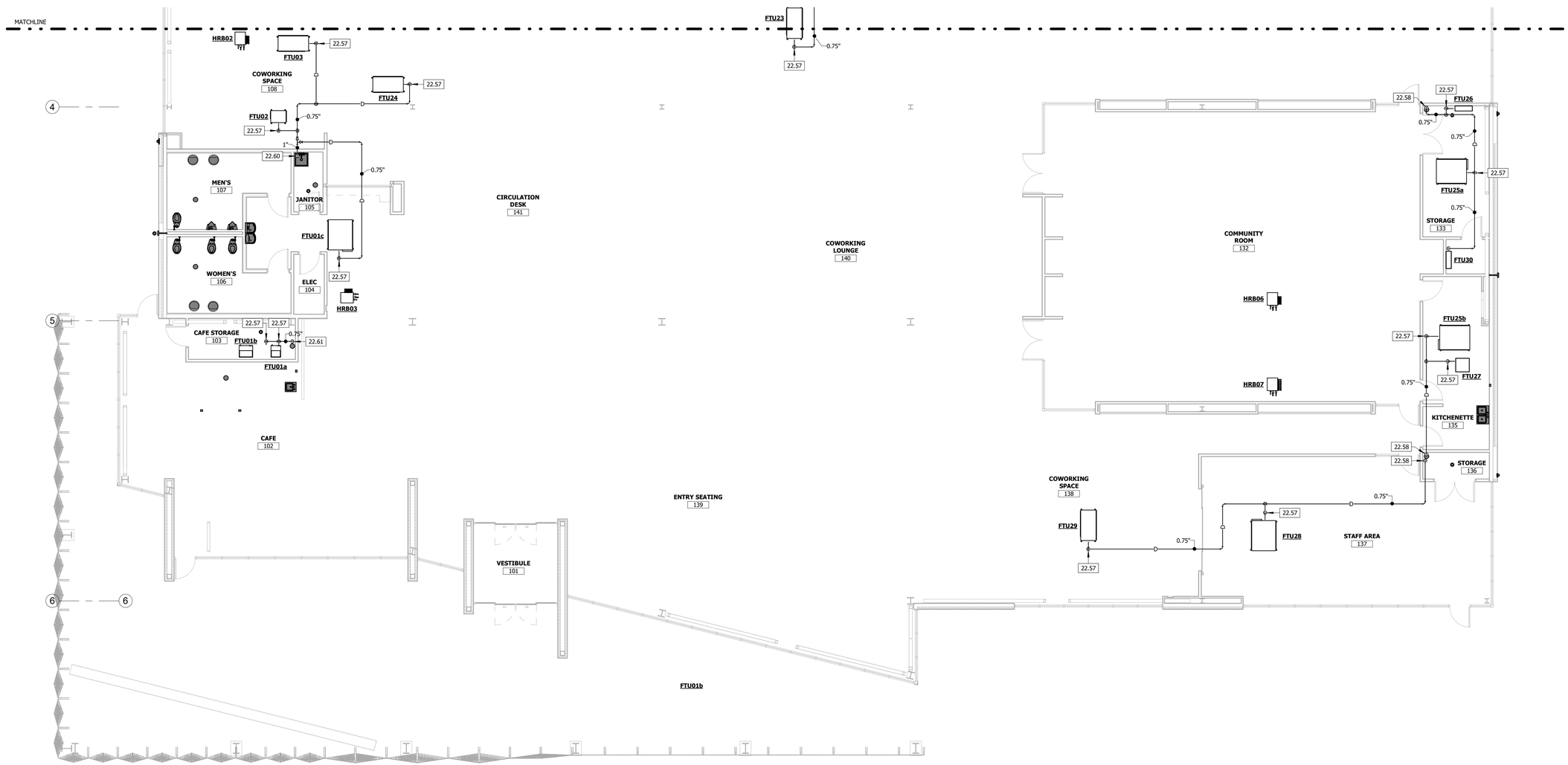
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
22.57	CONNECT 0.75" CONDENSATE DRAIN TO VRF FAN TERMINAL UNIT. FIELD VERIFY CONNECTION SIZE AND LOCATION.
22.58	0.75" CONDENSATE DRAIN DOWN. TERMINATE IN FLOOR DRAIN. SECURE TO WALL.
22.60	1" CONDENSATE DRAIN DOWN. TERMINATE IN MOP BASIN. SECURE TO WALL.
22.61	TERMINATE 0.75" CONDENSATE DRAIN AT FLOOR DRAIN.



1 CONDENSATE PIPING PLAN - AREA A
1/8" = 1'-0"

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Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
P104
CONDENSATE PIPING PLAN - AREA A

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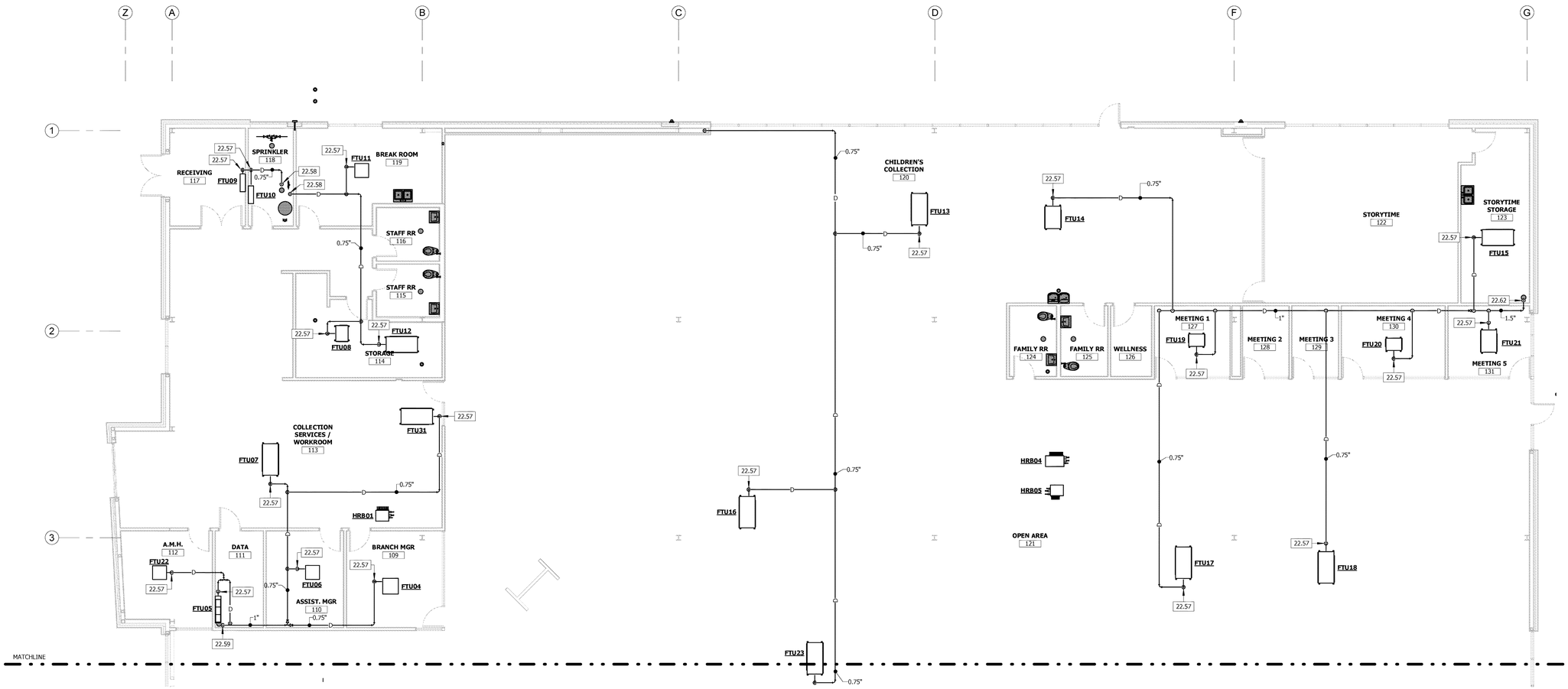
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
22.57	CONNECT 0.75" CONDENSATE DRAIN TO VRF FAN TERMINAL UNIT. FIELD VERIFY CONNECTION SIZE AND LOCATION.
22.58	0.75" CONDENSATE DRAIN DOWN. TERMINATE IN FLOOR DRAIN. SECURE TO WALL.
22.59	1" CONDENSATE DRAIN DOWN. TERMINATE IN FLOOR DRAIN. SECURE TO WALL.
22.62	1.5" CONDENSATE DRAIN DOWN. TERMINATE IN FLOOR DRAIN. SECURE TO WALL.



1 CONDENSATE PIPING PLAN - AREA B
1/8" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
P105
CONDENSATE PIPING PLAN - AREA B

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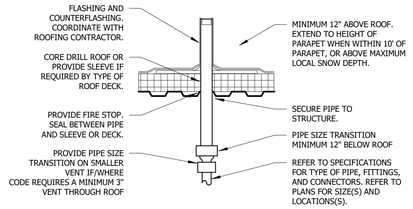


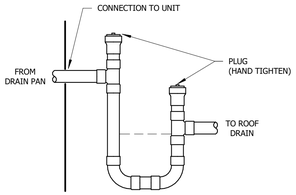
NOTES:

1. MAINTAIN 10 FOOT CLEARANCE FORM OUTSIDE AIR INTAKES.

2. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION AND/OR FLASHING REQUIREMENTS.

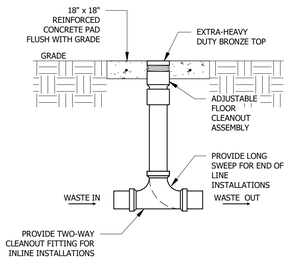
3. COORDINATE LOCATION OF VENT THROUGH ROOF LOCATION WITH ARCHITECT.

8 VENT THROUGH ROOF
NOT TO SCALE

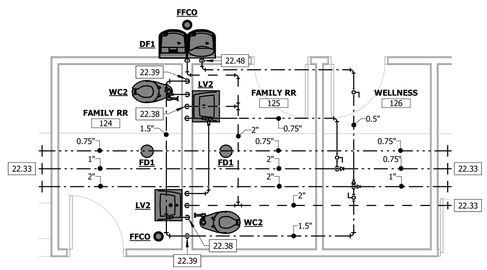


H = FAN INLET PRESSURE (IN. W.C.) + 1"

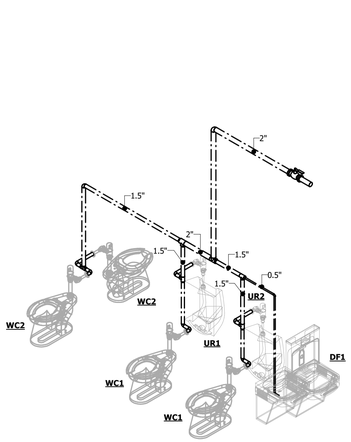
7 CONDENSATE DRAIN CONNECTION
NOT TO SCALE



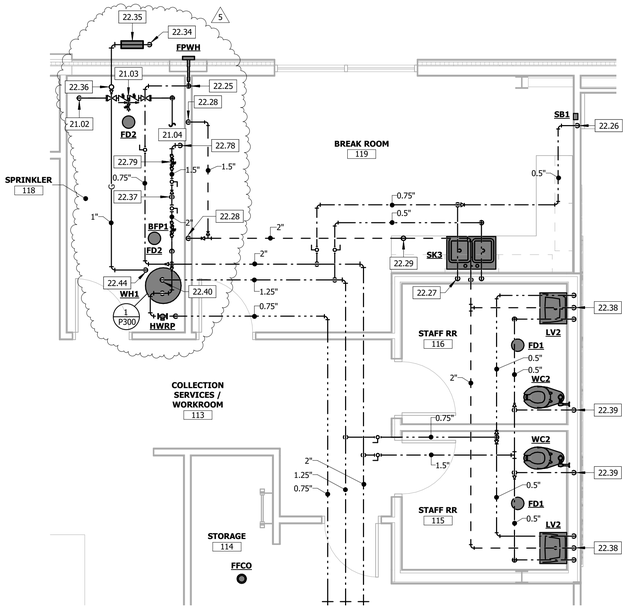
6 FINISH GRADE CLEANOUT
NOT TO SCALE



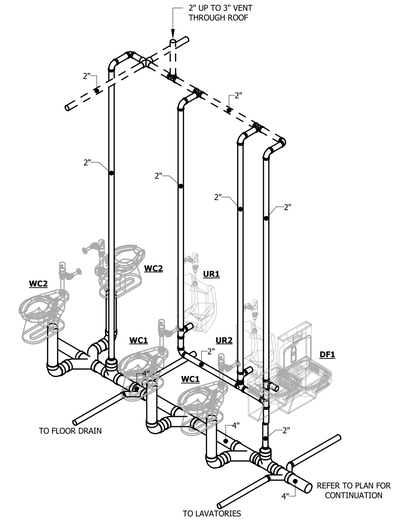
5 ENLARGED PLUMBING PLAN - FAMILY RESTROOM
1/4" = 1'-0"



4 DOMESTIC WATER ISOMETRIC
NOT TO SCALE



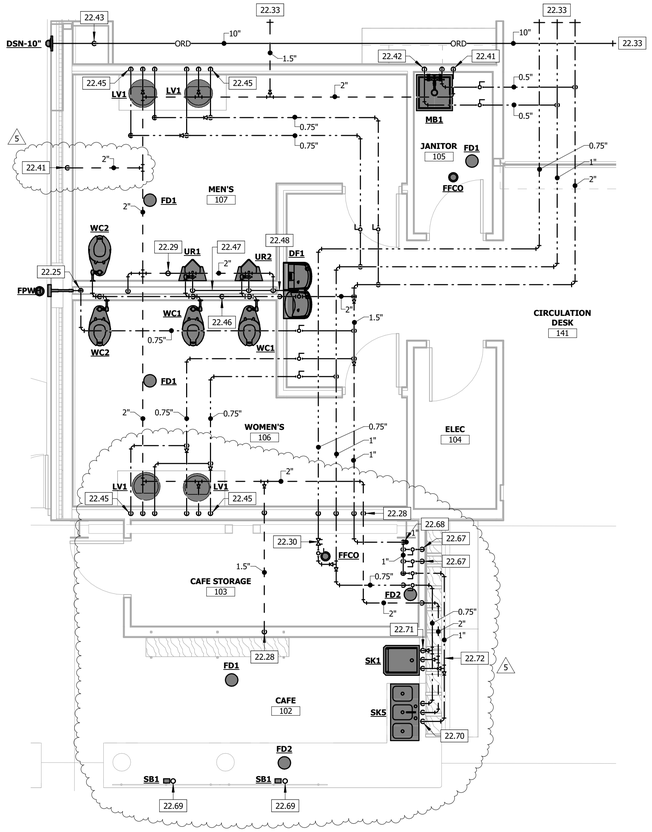
3 ENLARGED PLUMBING PLAN - STAFF AREA
1/4" = 1'-0"



2 WASTE AND VENT ISOMETRIC
NOT TO SCALE

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
21.02	FIRE SPRINKLER SERVICE DOWN. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
21.03	FIRE SPRINKLER MANIFOLD WITH PREACTION (DOUBLE INTERLOCKED) DELUGE VALVE AND ASSOCIATED TRIM. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
21.04	ROUTE FIRE SPRINKLER SYSTEM THROUGHOUT BUILDING. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
22.25	0.75" COLD WATER DOWN TO FREEZE PROOF WALL HYDRANT.
22.26	0.5" COLD WATER DOWN TO SUPPLY BOX.
22.27	0.5" COLD AND HOT WATER AND 1.5" VENT DOWN TO SINK.
22.28	1.5" VENT DOWN.
22.29	2" VENT UP TO 3" VENT THROUGH ROOF.
22.30	PROVIDE CIRCUIT SETTER BALANCE VALVE. BALANCE TO 1" GPM.
22.33	REFER TO OVERALL PLAN(S) FOR CONTINUATION.
22.34	NATURAL GAS SERVICE DOWN. COORDINATE WITH UTILITY COMPANY.
22.35	GAS METER BY UTILITY COMPANY. PENETRATE SERVICE INTO BUILDING NO GREATER THAN 48" ABOVE FINISH FLOOR. COORDINATE WITH UTILITY COMPANY.
22.36	2.5" NATURAL GAS UP THROUGH ROOF.
22.37	2" WATER SERVICE DOWN.
22.38	0.5" COLD AND HOT WATER AND 2" VENT DOWN TO LAVATORY.
22.39	1.25" COLD WATER DOWN TO WATER CLOSET.
22.40	1.25" COLD AND HOT WATER DOWN TO WATER HEATER.
22.41	2" VENT DOWN.
22.42	0.5" COLD AND HOT WATER DOWN TO MOP BASIN.
22.43	10" OVERFLOW ROOF DRAIN LEADER DOWN TO DOWNSPOUT NOZZLE.
22.44	1" NATURAL GAS DOWN TO WATER HEATER. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
22.45	0.5" COLD AND HOT WATER AND 1.5" VENT DOWN TO LAVATORY.
22.46	2" COLD WATER DOWN IN CHASE. REFER TO DOMESTIC WATER ISOMETRIC.
22.47	WASTE AND VENT IN CHASE. REFER TO WASTE AND VENT ISOMETRIC.
22.48	0.5" COLD WATER AND 2" VENT DOWN TO DRINKING FOUNTAIN.
22.67	0.5" COLD WATER DOWN. CHANGE PIPE MATERIAL AT VALVE MANIFOLD.
22.68	1" COLD WATER DOWN TO VALVE MANIFOLD.
22.69	0.5" COLD WATER TO SUPPLY BOX. FIELD COORDINATE PIPE ROUTING AND SUPPLY BOX LOCATION WITH MILLWORK CONTRACTOR.
22.70	0.75" COLD AND HOT WATER AND 1.5" VENT CONNECTION TO THREE COMPARTMENT SINK. PROVIDE 0.5" HOT WATER CONNECTION AND SUPPLY LINE TO DISHWASHER.
22.71	0.5" COLD AND HOT WATER AND 1.5" VENT CONNECTION TO HAND SINK.
22.72	ROUTE PIPING IN HALF HEIGHT WALL / CHASE. FIELD COORDINATE ROUTING WITH FRAMING AND MILLWORK CONTRACTORS.
22.78	1.5" IRRIGATION SERVICE DOWN BY LANDSCAPE SPRINKLER CONTRACTOR.
22.79	1.5" IRRIGATION SERVICE ASSEMBLY AND BACKFLOW PREVENTER BY LANDSCAPE SPRINKLER CONTRACTOR. COORDINATE LOCATION AND CONNECTION TO WATER SERVICE ENTRANCE WITH PLUMBING CONTRACTOR.



1 ENLARGED PLUMBING PLAN - RESTROOM AND CAFE
1/4" = 1'-0"

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Revision No.	Description	Date
5	SI #03	03-26-2020

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
P200
PLUMBING DETAILS

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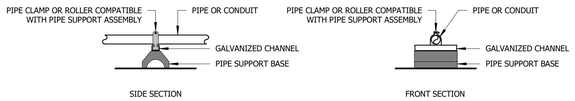


NOTES:

1. PIPE SUPPORT ASSEMBLY SHALL BE ADEQUATELY SIZED PER MANUFACTURES REQUIREMENTS.

2. PIPE SUPPORT SHALL BE INSTALLED IN ACCORDANCE WITH ROOFING MANUFACUTURES REQUIREMENTS TO MAINTAIN ROOFING WARRANTY.

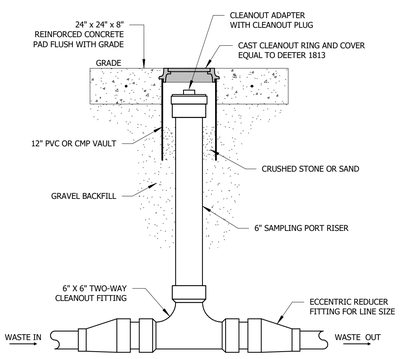
3. PROVIDE ALL NECESSARY PIPE SUPPORT ASSEMBLY ACCESSORIES FOR PROPER PIPE INSTALLATION SUCH AS SLOPING AND ELEVATING TO CLEAR OBSTRUCTIONS.

4. SPACE PIPE SUPPORTS IN ACCORDANCE WITH APPLICABLE CODES INCLUDING IPC, IFGC, IMC, AND NEC.

5. PIPE SUPPORT ASSEMBLY SHALL BE EATON B-LINE SERIES WITH DURA-BLOK SUPPORT BASES OR APPROVED EQUAL. PLASTIC SUPPORTS WILL NOT BE ACCEPTED.

3 ROOF SUPPORT

NOT TO SCALE



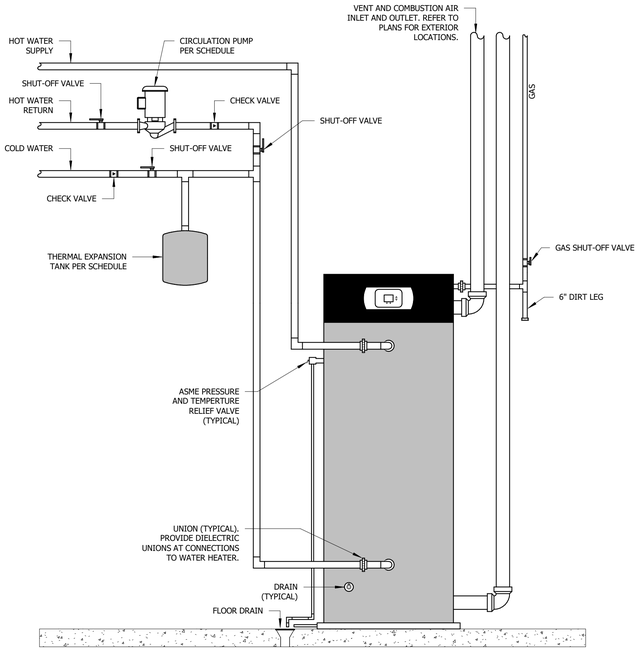
NOTES:

1. INSTALL SAMPLING PORT IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDITCTION. CONTACT ENGINEER IF REQUIREMENTS OF AUTHORITY HAVING JURISDUCTION DIFFERS FROM DETAIL SHOWN ABOVE.

2. REFER TO PLUMBING DRAWINGS FOR LINE SIZE.

2 SAMPLING PORT

NOT TO SCALE



NOTES:

1. INSTALL WATER HEATERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDED PIPING DIAGRAM. CONTACT ENGINEER IF MANUFACTURER'S RECOMMENDED PIPING CONFIGURATION DIFFERS FROM DETAIL SHOWN ABOVE.

2. INSTALL CIRCULATION PUMP IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

3. PROVIDE THERMOWELLS AND/OR TEST PLUGS PER SPECIFICATION SECTION 22 05 19.

1 GAS WATER HEATER

NOT TO SCALE

PIPING MATERIAL SCHEDULE

NOTES:

1. THE USE OF CELLULAR CORE PVC WASTE AND VENT PIPING IS STRICTLY PROHIBITED.
2. REFER TO SPECIFICATION SECTION 220719 FOR ADDITIONAL INSULATION REQUIREMENTS.
3. REFER TO SPECIFICATION SECTIONS 220719, 221113, 221316, AND 231123 FOR ADDITIONAL PIPING REQUIREMENTS.
4. PER NFPA 13 AND NFPA 24.

SYSTEM TYPE	PIPING					FITTINGS		MAXIMUM WORKING		FIELD TEST		INSULATION		NOTES
	SIZE	TYPE	SCHEDULE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (DEG F)	PRESSURE (PSI)	TIME (HOURS)	TYPE	THICKNESS (IN)	
Condensate Drain	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	1	-	-	-
Domestic Cold Water	ALL	L	-	B88	COPPER	COPPER	SOLDER JOINT	120	40-180	150	4	ARMAFLEX ELASTOMERIC	1"	2,3
Domestic Hot Water	ALL	L	-	B88	COPPER	COPPER	SOLDER JOINT	120	40-180	150	4	ARMAFLEX ELASTOMERIC	1"	2,3
Domestic Recirculating Hot Water	ALL	L	-	B88	COPPER	COPPER	SOLDER JOINT	120	40-180	150	4	ARMAFLEX ELASTOMERIC	1"	2,3
Fire Protection Service	ALL	-	-	-	-	-	-	-	-	-	-	-	-	4
Natural Gas	0.5" - 2.5"	ERW	40	A53	CARBON STEEL	CARBON STEEL	THREADED	5	-	150	4	-	-	3
Sanitary	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	4	-	-	1,3
Storm Drain	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	4	ARMAFLEX ELASTOMERIC	1"	1,2,3
Vent	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	4	-	-	1,3

WATER HEATER SCHEDULE

NOTES:

1. PROVIDE THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL ST-5-C.
2. DRAIN VALVE WITH THREADED HOSE CONNECTION.
3. PRESSURE & TEMPERATURE RELIEF VALVE.
4. COMBUSION INTAKE AND EXHAUST CONCENTRIC VENT TERMINATION KIT.

TYPE MARK	MANUFACTURER	MODEL NUMBER	GALLONS	GAS INPUT (MBH)	GAS OUTPUT (MBH)	ELEC (KW)	VOLTAGE	NOTES	EQUIVALENTS
WH1	BRADFORD WHITE	EF-60T-125E-3N	60	125	120	-	120/1	1,2,3,4	AO SMITH

BACKFLOW PREVENTER SCHEDULE

NOTES:

1. PRESSURE REDUCING VALVE AND STRAINER SHALL BE SAME MANUFACTURER AS BACKFLOW PREVENTER UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADAPTERS BETWEEN PIPE FITTING TYPES.
3. PROVIDE SHUT-OFF VALVE UPSTREAM OF BACKFLOW PREVENTER ASSEMBLY AND ACCESSORIES.

TYPE MARK	BACKFLOW PREVENTER			PRESSURE REDUCING VALVE		STRAINER MODEL	NOTES	EQUIVALENTS
	MANUFACTURER	MODEL	SIZE	PRV MODEL	PRV PRESSURE			
BFP1	ZURN	375XL	2"	500XL	75 PSI	SXL	1,2,3	WATTS

PLUMBING FIXTURE SCHEDULE

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
2. ALL COLORS AND FINISHES SELECTED BY ARCHITECT.
3. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.
4. PROVIDE 17 GAUGE CHROME PLATED BRASS WASTE, TAILPIECE AND P-TRAP. PROVIDE PLATED ESCUTCHEONS AT WALL PENETRATIONS.
5. PROVIDE TRUEBRO HANDI-LAV-GUARD INSULATION KIT WHERE EXPOSED. COLOR SHALL BE SELECTED BY THE ARCHITECT.
6. PROVIDE SHOCK ABSORBER FOR ALL INDIVIDUAL FIXTURES OR BATTERIES. SIZE UNITS SERVING FIXTURE BATTERIES PER MANUFACTURER.
7. COORDINATE ELECTRICAL CONNECTION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
8. REFER TO ARCHITECTURAL ACCESSIBLE URNIAL DETAIL 1/G101 FOR INSTALLATION HEIGHT.
9. EQUIVALENT FAUCET AND/OR FLUSH VALVE MANUFACTURERES WILL NOT BE ACCEPTED.

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ACCESSORIES	CW SIZE	HW SIZE	WASTE	VENT	NOTES	EQUIVALENTS
DF1	DRINKING FOUNTAIN	ELKAY	LZSTL8WSSK	BI-LEVEL, BOTTLE FILLING STATION, SAFETY BUBBLER, ADA COMPLIANT, ZURN Z1225-BL CARRIER, QUARTER TURN STOP	0.5"	-	2"	1.5"	1,2,3,4	HAWS, OASIS
DSN-6"	DOWNSPOUT NOZZLE	ZURN	Z199	-	-	-	6"	-	1,2	JOSAM, WADE
DSN-8"	DOWNSPOUT NOZZLE	ZURN	Z199	-	-	-	8"	-	1,2	JOSAM, WADE
DSN-10"	DOWNSPOUT NOZZLE	ZURN	Z199	-	-	-	10"	-	1,2	JOSAM, WADE
FD1	FLOOR DRAIN	ZURN	Z415B	NICKEL BRONZE TOP, PROSET TRAP GUARD	-	-	2"	1.5"	-	JOSAM, WADE
FD2	FLOOR DRAIN	ZURN	Z415I	NICKEL BRONZE TOP WITH RAISED FLANGE, PROSET TRAP GUARD	-	-	2"	1.5"	-	JOSAM, WADE
FFCO	FINISH FLOOR CLEANOUT	ZURN	Z1400	NICKEL BRONZE TOP	-	-	SEE PLAN	-	-	JOSAM, WADE
FGCO	FINISH GRADE CLEANOUT	ZURN	ZS1400	STAINLESS STEEL EXTRA HEAVY DUTY TOP	-	-	SEE PLAN	-	-	JOSAM, WADE
FPRH	FREEZE PROOF ROOF HYDRANT	WOODFORD	RHY1-MS	FREEZELESS, CAST IRON MOUNTING SYSTEM, DRAIN CONNECTION	1"	-	0.125"	-	-	ZURN
FPWH	FREEZE PROOF WALL HYDRANT	WOODFORD	B65	FREEZELESS, AUTOMATIC DRAINING, ANTI-SIPHON, BOX/DOOR ASSEMBLY	0.75"	-	-	-	1,2	ZURN
GI1	GREASE INTERCEPTOR	SCHIER	GB-75	TRAFFIC RATED COMPOSITE COVER, RISERS AS REQUIRED FOR INSTALLATION	-	-	3"	-	-	ROCKFORD, GREEN TURTLE
LV1	COUNTERTOP LAVATORY	KOHLER	K-2882	ZURN Z6915-XL FAUCET, 1.0 GPM, VANDAL RESISTANT, LAMINAR FLOW, HARDWIRED, GRID STRAINER, QUARTER TURN STOPS, WATTS LFUSG-B MIXING VALVE	0.5"	0.5"	2"	1.5"	2,3,4,5,7,9	TOTO, AMERICAN STANDARD
LV2	WALL HUNG LAVATORY	ZURN	Z5340	ZURN Z6915-XL FAUCET, 1.0 GPM, VANDAL RESISTANT, LAMINAR FLOW, HARDWIRED, GRID STRAINER, QUARTER TURN STOPS, WATTS LFUSG-B MIXING VALVE, ZURN Z1231 CARRIER	0.5"	0.5"	2"	1.5"	1,2,3,4,5,7,9	TOTO, AMERICAN STANDARD
MB1	MOP BASIN	FIAT	MSB 2424	ZURN Z843M4-XL FAUCET, FIAT 838-AA HOSE AND BRACKET, FIAT 889-CC MOP HANGER, FIAT MSG2424 STAINLESS STELL WALL GUARD, FIAT E-77-AA VINYL BUMPERGUARD	0.5"	0.5"	3"	1.5"	2	STERN-WILLIAMS
ORD-6"	OVERFLOW ROOF DRAIN	ZURN	ZC100-W2	CAST IRON DOME, INTERNAL WATER DAM	-	-	6"	-	-	JOSAM, WADE
ORD-8"	OVERFLOW ROOF DRAIN	ZURN	ZC100-W2	CAST IRON DOME, INTERNAL WATER DAM	-	-	8"	-	-	JOSAM, WADE
RD-6"	ROOF DRAIN	ZURN	ZC100	CAST IRON DOME	-	-	6"	-	-	JOSAM, WADE
RD-8"	ROOF DRAIN	ZURN	ZC100	CAST IRON DOME	-	-	8"	-	-	JOSAM, WADE
SB1	SUPPLY BOX	GUY GRAY	MIB1HAAB	QUARTER TURN VALVE, HAMMER ARRESTER	0.5"	-	-	-	-	OATEY
5 SK1	HAND SINK	ADVANCE TABCO	7-PS-46	ADVANCE TABCO EXTENDED SWING FAUCET, QUARTER TURN STOPS, DRAIN KIT, WALL CARRIER, WATTS LFUSG-N MIXING VALVE, ADA COMPLIANT	0.5"	0.5"	2"	1.5"	2,3,4	ELKAY, JUST
SK2	DOUBLE BOWL SINK	ELKAY	ECTRU31179	ELKAY LKS000 FAUCET, IN-SINK-ERATOR EVOLUTION EXCEL 1HP GARBAGE DISPOSAL, QUARTER TURN STOPS, DRAIN KIT, ADA COMPLIANT	0.5"	0.5"	2"	1.5"	2,3,4	JUST, KOHLER
SK3	DOUBLE BOWL SINK	ELKAY	LRAD331965	ELKAY LKS000 FAUCET, IN-SINK-ERATOR EVOLUTION EXCEL 1HP GARBAGE DISPOSAL, QUARTER TURN STOPS, DRAIN KIT, ADA COMPLIANT	0.5"	0.5"	2"	1.5"	2,3,4	JUST, KOHLER
SK4	DOUBLE BOWL SINK	ELKAY	LRAD331965	ELKAY LKS000 FAUCET, QUARTER TURN STOPS, DRAIN KIT, ADA COMPLIANT	0.5"	0.5"	2"	1.5"	2,3,4	JUST, KOHLER
5 SK5	THREE COMPARTMENT SINK	ADVANCE TABCO	DI-3-10	ADVANCE TABCO K-50 FAUCET(S), IN-SINK-ERATOR EVOLUTION EXCEL 1HP GARBAGE DISPOSAL WITH DISHWASHER DRAIN CONNECTION, QUARTER TURN STOPS, DRAIN KIT(S)	0.5"	0.5"	2"	1.5"	2,4	ELKAY, JUST
SP	SAMPLING PORT	DEETER	1813	6" PVC RISER	-	-	SEE PLAN	-	-	JOSAM, WADE, ZURN
UR1	URINAL	ZURN	Z5755-U	SLOAN ECOS 8186-0.125 FLUSH VALVE, 0.125 GALLON PER FLUSH, ZURN Z1222 CARRIER	0.75"	-	2"	1.5"	1,2,3,6,9	TOTO, AMERICAN STANDARD
UR2	ADA URINAL	ZURN	Z5755-U	SLOAN ECOS 8186-0.125 FLUSH VALVE, 0.125 GALLON PER FLUSH, ZURN Z1222 CARRIER	0.75"	-	2"	1.5"	1,2,3,6,8,9	TOTO, AMERICAN STANDARD
WC1	WATER CLOSET	ZURN	5655-BWL1	SLOAN ECOS 8111-1.6/1.1 (3370400) DUAL FLUSH VALVE, 1.6/1.1 GALLON PER FLUSH, OPEN FRONT COMMERCIAL SEAT	1.25"	-	4"	2"	2,6,9	TOTO, AMERICAN STANDARD
WC2	ADA WATER CLOSET	ZURN	Z5655-BWL1	SLOAN ECOS 8111-1.6/1.1 (3370400) DUAL FLUSH VALVE, 1.6/1.1 GALLON PER FLUSH, OPEN FRONT COMMERCIAL SEAT, ADA COMPLIANT	1.25"	-	4"	2"	2,3,6,9	TOTO, AMERICAN STANDARD

PLUMBING PUMP SCHEDULE

NOTES:

1. PROVIDE CONTACTOR/RELAY FOR PUMP CONTROL BY BUILDING AUTOMATION SYSTEM. COORDINATE REQUIREMENTS WITH BAS CONTRACTOR.
2. COORDINATE ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR.
3. BEARINGS ARE TO BE LUBRICATED BY THE CIRCULATING FLUID.

TYPE MARK	MANUFACTURER	SERIES	INLET SIZE	DISCHARGE SIZE	GPM	PUMP HEAD (FT)	MOTOR HP (WATTS)	RPM	CONSTRUCTION	FLUID TYPE	FLUID TEMP	VOLTAGE	NOTES	EQUIVALENTS
HWRP	TACO	006	0.75"	0.75"	3	7 FT	60 W	3250	BRONZE	DOMESTIC HOT WATER	140 F	120/1	1,2,3	BELL & GOSSETT

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WP10	12/23/2019	AH

Drawing No.
P300
PLUMBING SCHEDULES

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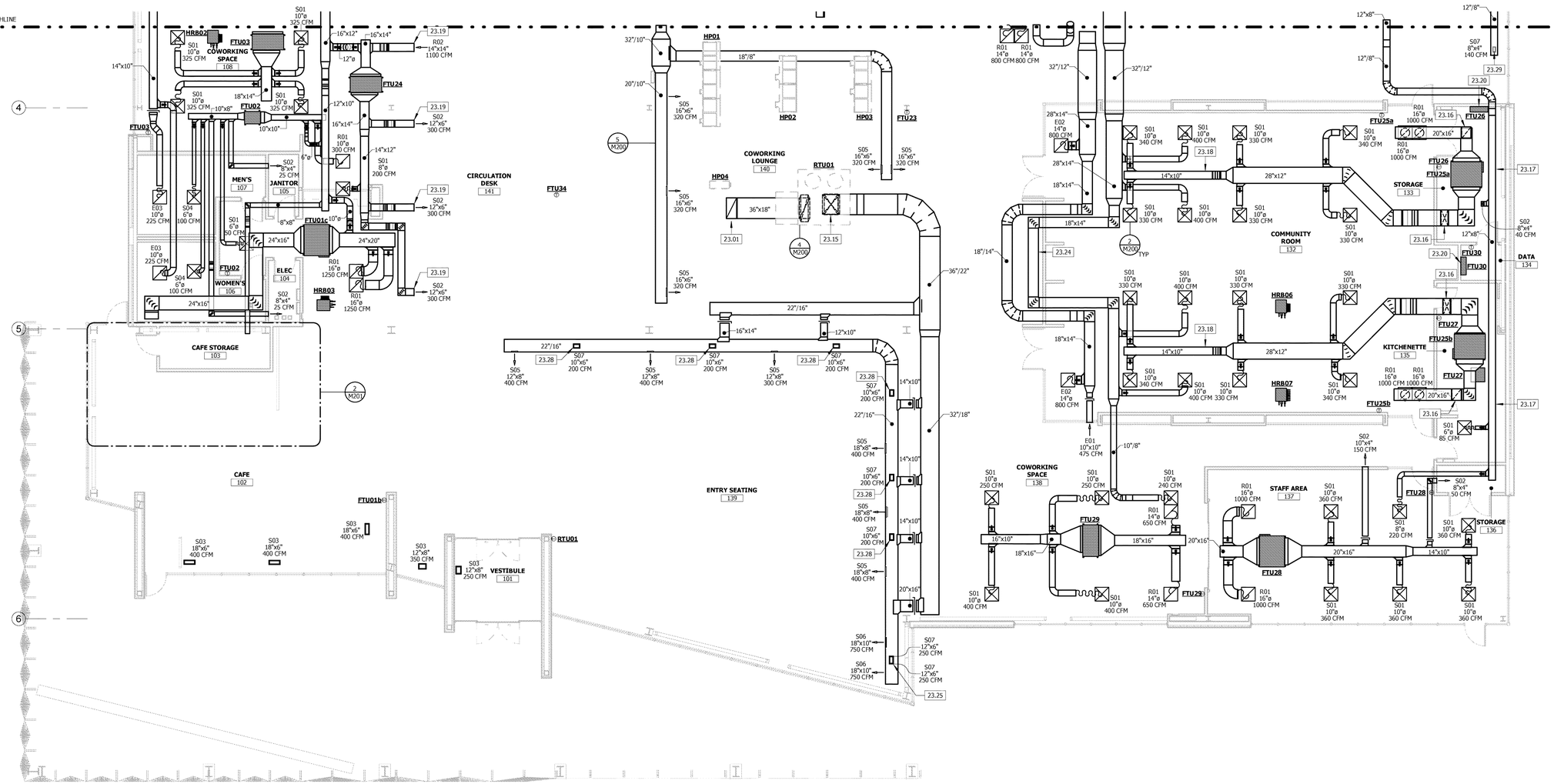
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
23.01	ELBOW RETURN UP TOWARD STRUCTURE.
23.15	36X24 SUPPLY AND RETURN UP TO ROOFTOP UNIT. TRANSITION TO UNIT CONNECTIONS AS REQUIRED. PROVIDE FLEXIBLE CONNECTION TO UNIT.
23.16	TRANSITION DUCTWORK UP INTO STRUCTURE.
23.17	INSTALL OUTSIDE AIR DUCT ABOVE CLEARANCE AREA FOR ADJACENT VRF FAN TERMINAL UNIT.
23.18	ROUTE DUCTWORK THROUGH OPENING IN STRUCTURAL BEAM. COORDINATE WITH STRUCTURAL DRAWINGS AND CONTRACTOR.
23.19	INSTALL BOTTOM OF AIR DEVICES AT 10'-8" ABOVE FINISH FLOOR.
23.20	INSTALL BOTTOM OF VRF UNIT AT 9'-0" ABOVE FINISH FLOOR.
23.24	INSTALL DUCTWORK IN SOFFIT.
23.25	INSTALL ONE SUPPLY DIFFUSER ON THE TOP OF THE DUCTWORK AND ANOTHER ON THE BOTTOM SIDE.
23.28	INSTALL SUPPLY GRILLE ON TOP FACE OF DUCTWORK.
23.29	INSTALL SUPPLY GRILLE ON BOTTOM FACE OF DUCTWORK.



1 HVAC PLAN - AREA A
1/8" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	JK

Drawing No.

M100

MECHANICAL DUCTWORK PLAN - AREA A

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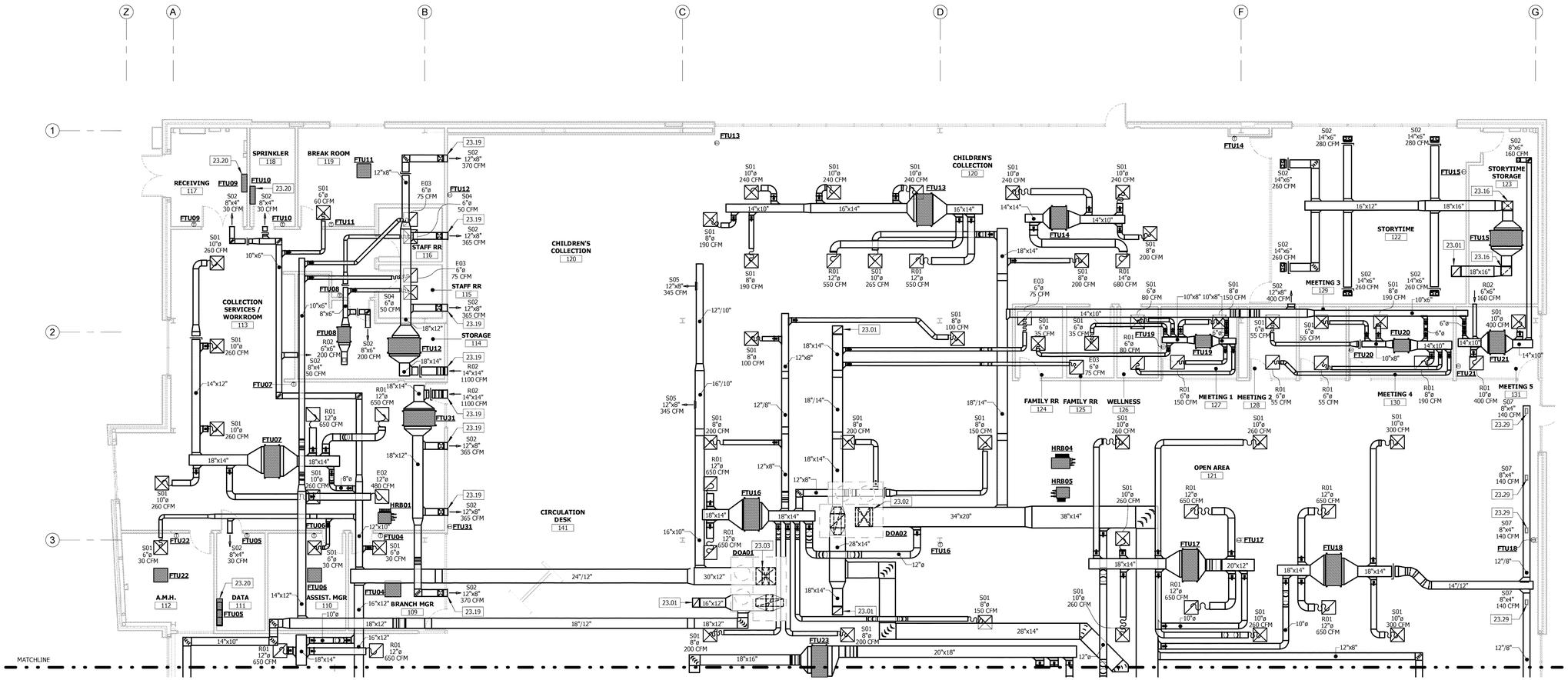
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
23.01	ELBOW RETURN UP TOWARD STRUCTURE.
23.02	30X20 OUTSIDE AIR AND EXHAUST AIR UP TO OUTSIDE AIR UNIT. TRANSITION TO UNIT OPENING AS REQUIRED. PROVIDE FLEXIBLE CONNECTION TO UNIT.
23.03	22X16 OUTSIDE AIR AND EXHAUST AIR UP TO OUTSIDE AIR UNIT. TRANSITION TO UNIT OPENING AS REQUIRED. PROVIDE FLEXIBLE CONNECTION TO UNIT.
23.16	TRANSITION DUCTWORK UP INTO STRUCTURE.
23.19	INSTALL BOTTOM OF AIR DEVICES AT 10'-8" ABOVE FINISH FLOOR.
23.20	INSTALL BOTTOM OF VRF UNIT AT 9'-0" ABOVE FINISH FLOOR.
23.29	INSTALL SUPPLY GRILLE ON BOTTOM FACE OF DUCTWORK.



1 HVAC PLAN - AREA B
1/8" = 1'-0"

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PROFESSIONAL ENGINEER
12/23/2019

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True Engineering Group LLC
Missouri State Certificate of Authority #E-2016000752

Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	JK

Drawing No.
M101
MECHANICAL DUCTWORK PLAN - AREA B

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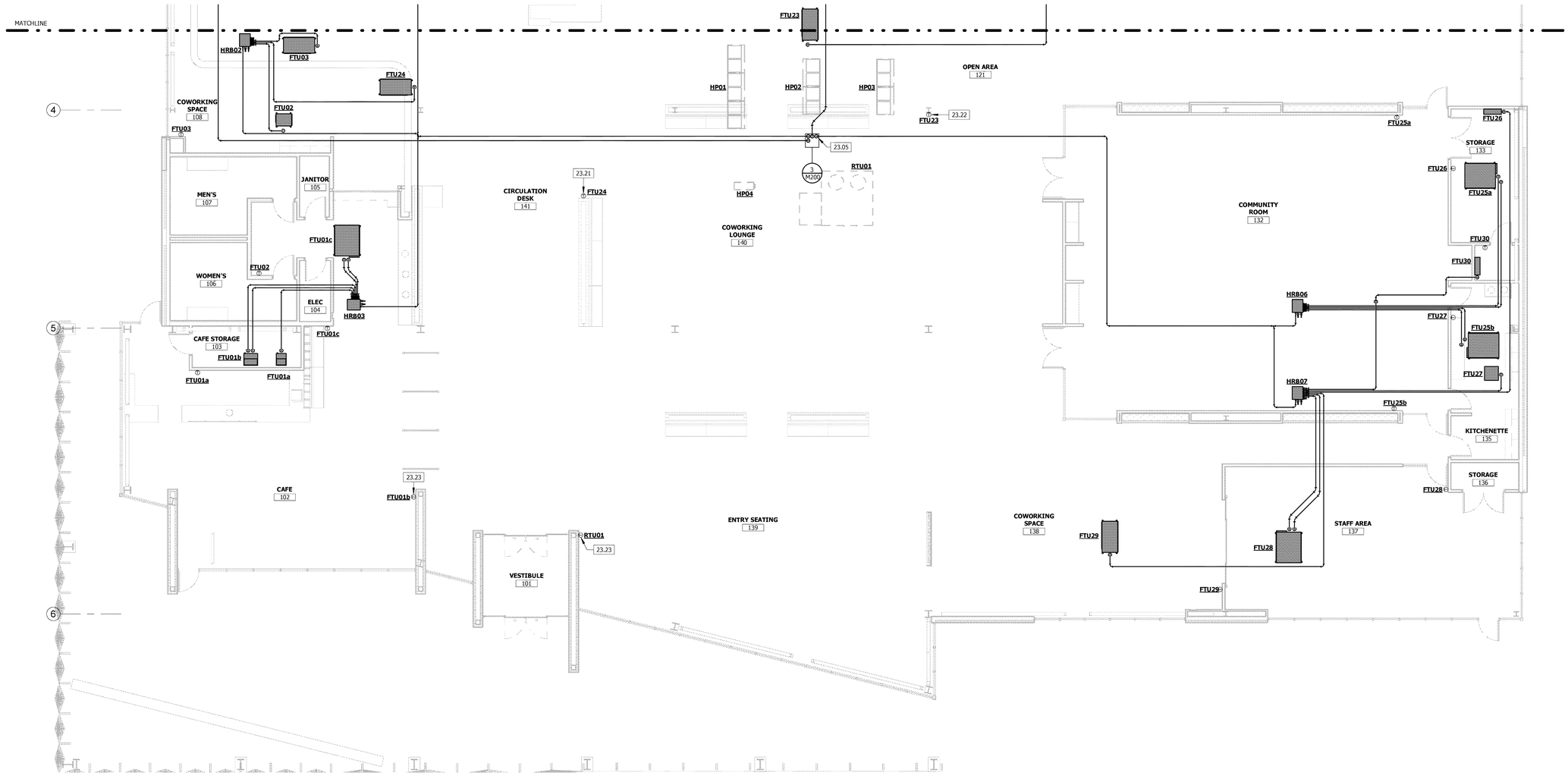
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
23.05	REFRIGERANT LINES UP THROUGH PIPE CURB TO ASSOCIATED HEAT RECOVERY UNIT ON ROOF.
23.21	INSTALL THERMOSTAT ON HALF WALL. COORDINATE CONDUIT WITH ELECTRICAL CONTRACTOR TO NEAREST WALL FOR ACCESS TO LAY-IN CEILING.
23.22	INSTALL THERMOSTAT ON EXPOSED COLUMN. COORDINATE CONDUIT ROUTING TO NEAREST LAY-IN CEILING WITH ELECTRICAL CONTRACTOR.
23.23	COORDINATE CONDUIT ROUTING UNDERSLAB WITH ELECTRICAL CONTRACTOR TO NEAREST WALL FOR ACCESS TO LAY-IN CEILING.



1 HVAC PIPING PLAN - AREA A
1/8" = 1'-0"

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WP10	12/23/2019	JK

Drawing No.
M102
MECHANICAL PIPING PLAN - AREA A

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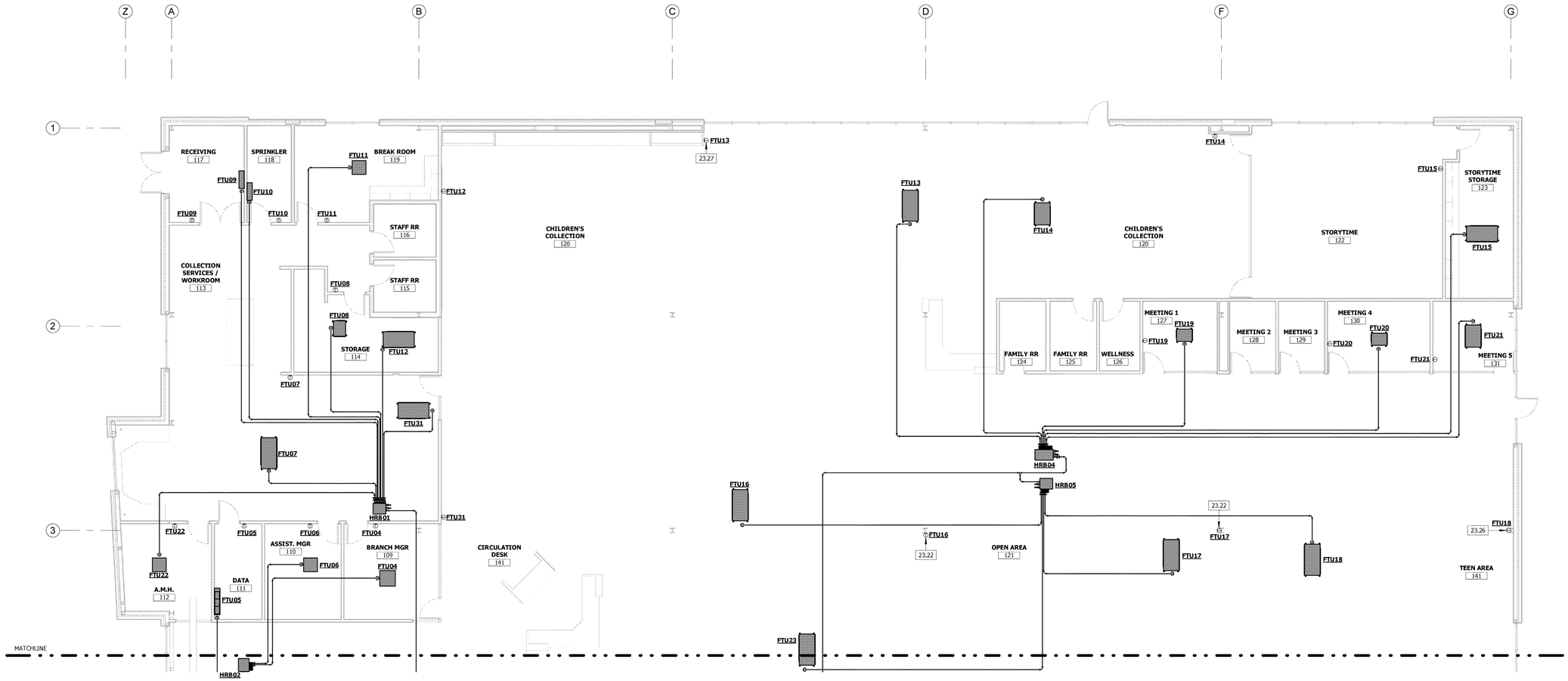
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
23.22	INSTALL THERMOSTAT ON EXPOSED COLUMN. COORDINATE CONDUIT ROUTING TO NEAREST LAY-IN CEILING WITH ELECTRICAL CONTRACTOR.
23.26	INSTALL THERMOSTAT ON COLUMN. ROUTE CONDUIT THROUGH TO THE BACKSIDE OF THE COLUMN. COORDINATE WITH ELECTRICAL CONTRACTOR.
23.27	INSTALL THERMOSTAT ON THE SIDE OF CASEWORK AND ROUTE CONDUIT AND WIRING UP WALL TO ASSOCIATED FAN COIL UNIT.



1 HVAC PIPING PLAN - AREA B
1/8" = 1'-0"

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WP10	12/23/2019	JK

Drawing No.
M103
MECHANICAL PIPING PLAN - AREA B

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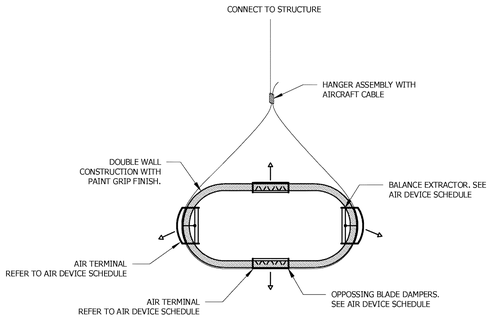
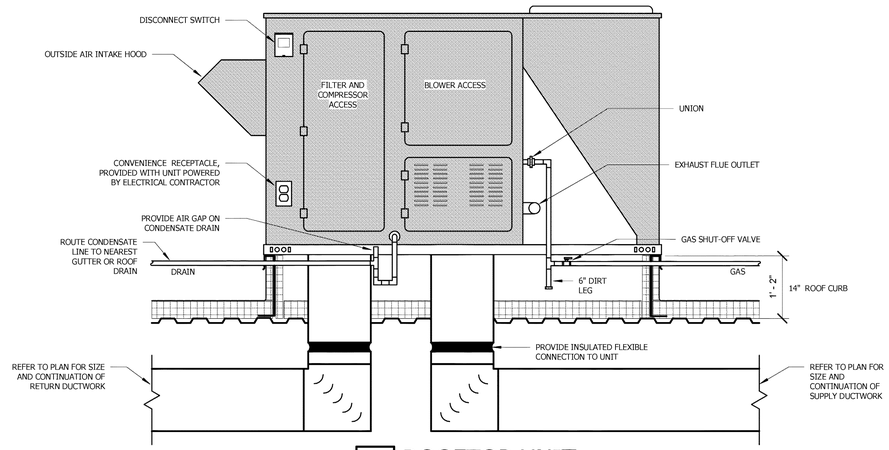


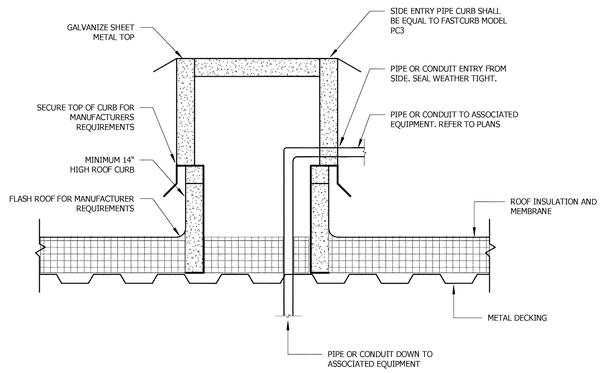
NOTES:

1. HANGER ASSEMBLY WITH AIRCRAFT CABLE SHALL BE GRIPPLE STANDARD HANGER OR APPROVED EQUAL. HANGER ASSEMBLY AND AIRCRAFT CABLE SHALL BE PROPERLY SIZED AND SECURELY ANCHORED PER MANUFACTURER'S REQUIREMENTS.

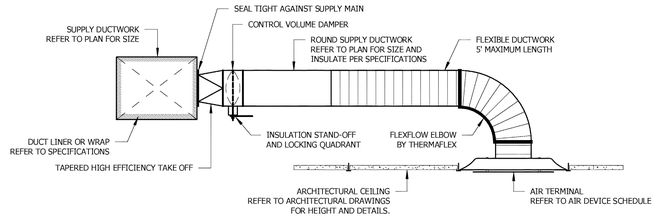
5 OVAL DUCT
NOT TO SCALE



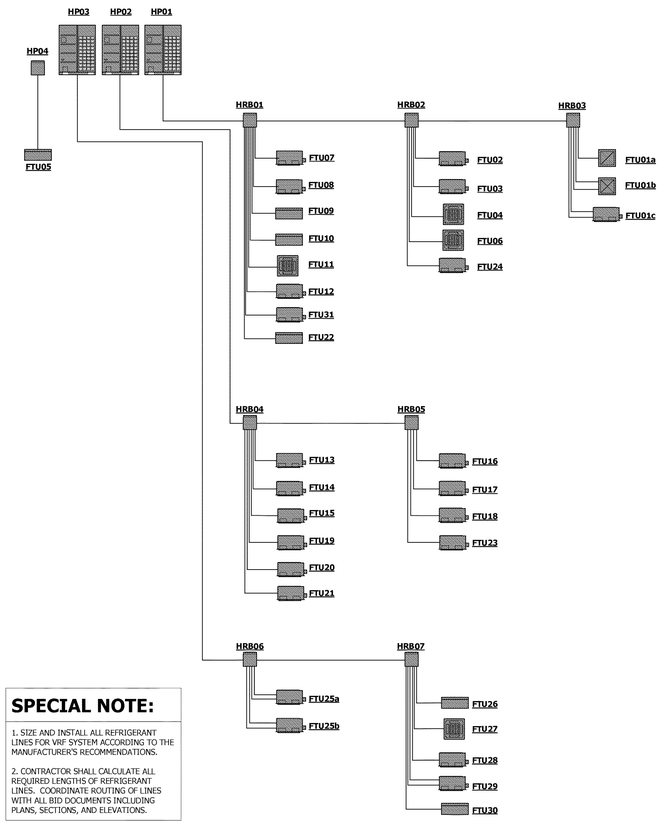
4 ROOFTOP UNIT
NOT TO SCALE



3 PIPE CURB
NOT TO SCALE



2 SUPPLY AIR DIFFUSER
NOT TO SCALE



SPECIAL NOTE:

1. SIZE AND INSTALL ALL REFRIGERANT LINES FOR VRF SYSTEM ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

2. CONTRACTOR SHALL CALCULATE ALL REQUIRED LENGTHS OF REFRIGERANT LINES. COORDINATE ROUTING OF LINES WITH ALL BID DOCUMENTS INCLUDING PLANS, SECTIONS, AND ELEVATIONS.

1 VARIABLE REFRIGERANT FLOW RISER
NOT TO SCALE

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	Author

Drawing No.
M200
MECHANICAL DETAILS

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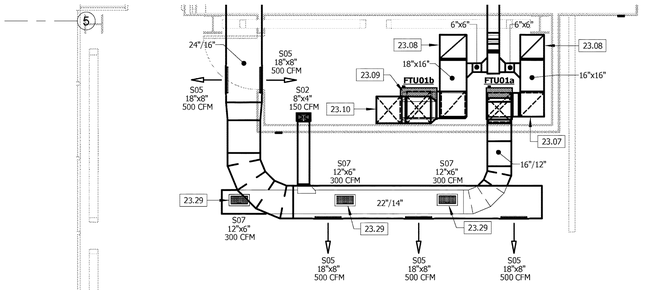
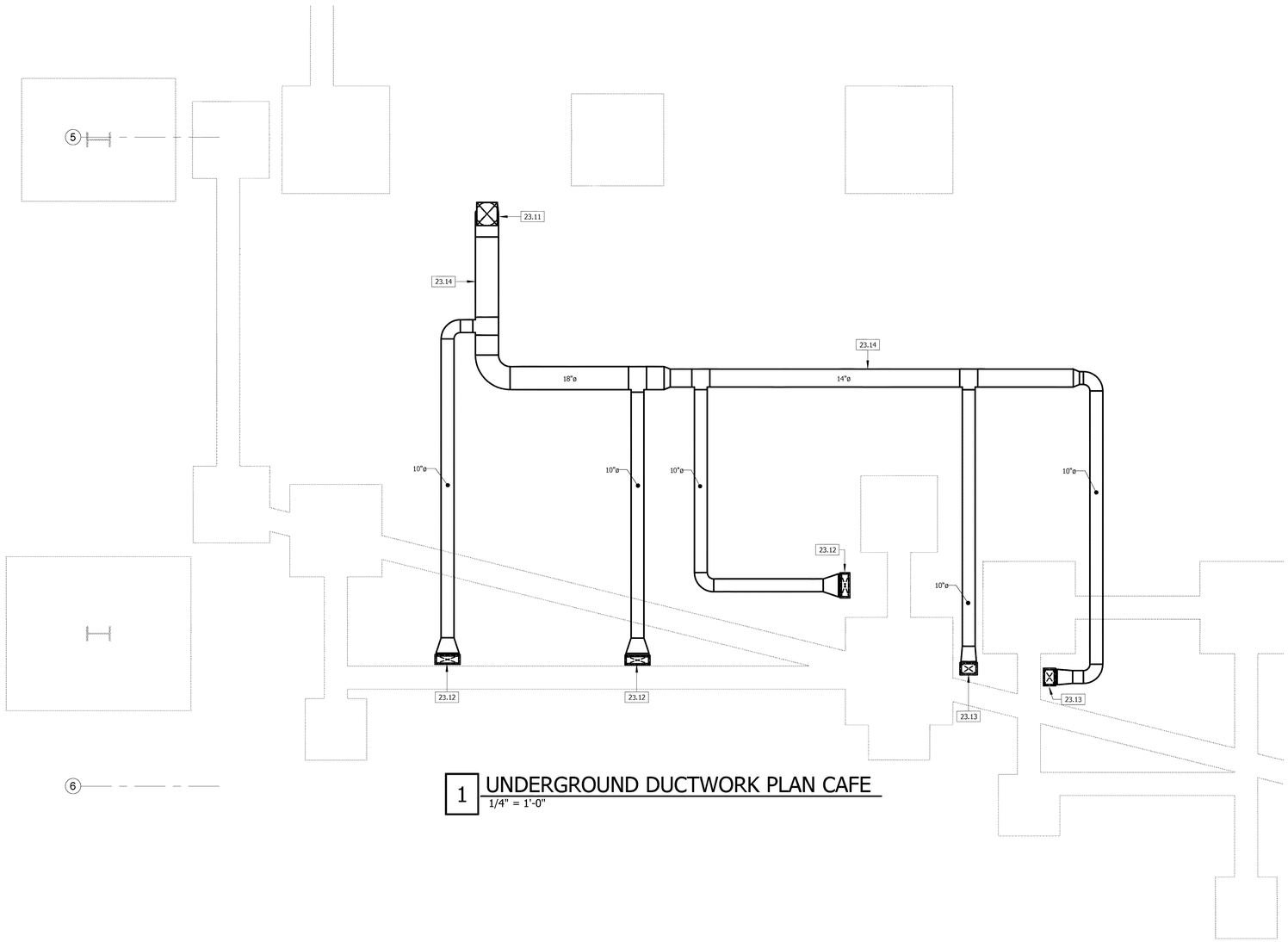
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
23.07	16X16 SUPPLY AND RETURN AIR DOWN TO UNIT. PROVIDE FLEXIBLE CONNECTION TO UNIT.
23.08	RETURN BOOT UP TO TOP OF ADJACENT WALL AT CAFE. INSTALL DAMPER IN VERTICAL POSITION.
23.09	18X16 SUPPLY AND RETURN AIR DOWN TO UNIT. PROVIDE FLEXIBLE CONNECTION TO UNIT.
23.10	18X16 SUPPLY AIR DOWN TO UNDERGROUND DUCTWORK.
23.11	TRANSITION 18" DIAMETER UP TO 18X16 SUPPLY DUCTWORK.
23.12	18X6 SUPPLY AIR UP TO FLOOR GRILLE.
23.13	12X8 SUPPLY AIR UP TO FLOOR GRILLE.
23.14	PROVIDE AQC BLUE DUCTED ENGINEERED UNDERGROUND PRE INSULATED DUCT SYSTEM.
23.29	INSTALL SUPPLY GRILLE ON BOTTOM FACE OF DUCTWORK.



2 ENLARGED CAFE HVAC PLAN
1/4" = 1'-0"



1 UNDERGROUND DUCTWORK PLAN CAFE
1/4" = 1'-0"

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WP10	12/23/2019	JK

Drawing No.
M201
ENLARGED MECHANICAL PLANS

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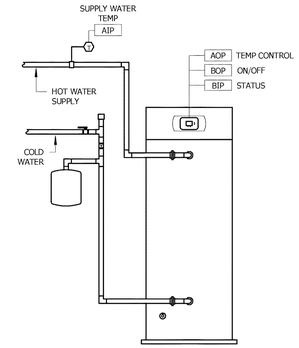
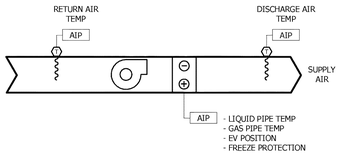


5 BAS - GAS WATER HEATER

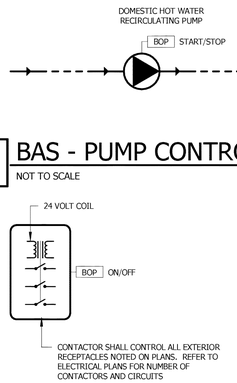
NOT TO SCALE



INTEGRATE POINTS TO BAS SYSTEM THROUGH DAIKIN ITM BACNET SERVER LICENSE. COORDINATE WITH VRF MANUFACTURER

8 BAS - VRF FAN COIL UNIT

NOT TO SCALE

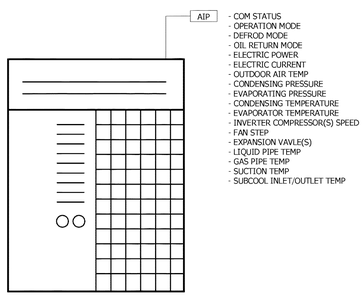


4 BAS - PUMP CONTROL

NOT TO SCALE

3 BAS - EXTERIOR RECEPTACLES

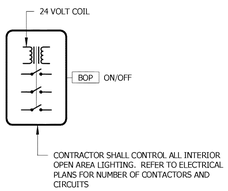
NOT TO SCALE



INTEGRATE POINTS TO BAS SYSTEM THROUGH DAIKIN ITM BACNET SERVER LICENSE. COORDINATE WITH VRF MANUFACTURER

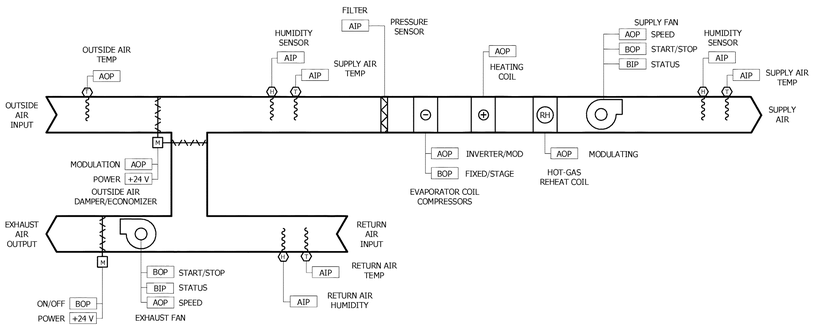
7 BAS - VRF HEAT PUMP

NOT TO SCALE



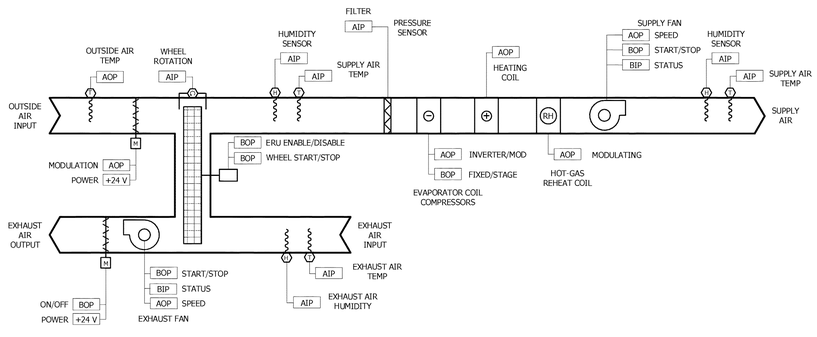
2 BAS - INTERIOR LIGHTING

NOT TO SCALE



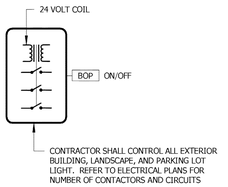
9 BAS - ROOFTOP UNIT

NOT TO SCALE



6 BAS - DEDICATED OUTSIDE AIR UNIT

NOT TO SCALE



1 BAS - EXTERIOR LIGHTING

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Drawing No.
M202
MECHANICAL CONTROL DRAWINGS

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VRF - HEAT RECOVERY BOX SCHEDULE

NOTES:	
1.	PROVIDE REFRIGERANT LINE SET(S) SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2.	PROVIDE ALL REFRIGERATION SYSTEM ACCESSORIES REQUIRED BY MANUFACTURER FOR GIVEN LINE SET ROUTING.
3.	SUSPEND FROM STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE VIBRATION ISOLATION KIT.
4.	PROVIDE BALL VALVES AT LIQUID AND SUCTION LINE FOR EACH BRANCH.
5.	COORDINATE ELECTRICAL DISCONNECTING MEANS WITH ELECTRICAL CONTRACTOR.

TYPE MARK	MANUFACTURER	MODEL NUMBER	VOLTAGE	MCA	MOCP	NOTES	EQUIVALENTS
HRB01	DAIKIN	BS8Q54TVJ	208/1	0.8	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
HRB02	DAIKIN	BS6Q54TVJ	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
HRB03	DAIKIN	BS6Q54TVJ	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
HRB04	DAIKIN	B6Q54TVJ	208/1	1.0	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
HRB05	DAIKIN	BS6Q54TVJ	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
HRB06	DAIKIN	BS6Q54TVJ	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
HRB07	DAIKIN	BS8Q54TVJ	208/1	0.8	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM

VRF - HEAT PUMP UNIT SCHEDULE

NOTES:	
1.	PROVIDE REFRIGERANT LINE SET(S) SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2.	PROVIDE ALL REFRIGERATION SYSTEM ACCESSORIES REQUIRED BY MANUFACTURER FOR GIVEN LINE SET ROUTING.
3.	PROVIDE REFRIGERANT TWINNING KIT.
4.	PROVIDE ACCESSORIES FOR LOW AMBIENT OPERATION.
5.	PROVIDE HAIL GUARDS ON CONDENSORS.
6.	PROVIDE EQUIPMENT SUPPORT SYSTEM BY BIG FOOT, QUICK-SLING, OR APPROVED EQUAL. EQUIPMENT SUPPORT SYSTEM SHALL BE SIZED PER MANUFACTURER'S REQUIREMENTS.
7.	COORDINATE ELECTRICAL DISCONNECTING MEANS WITH ELECTRICAL CONTRACTOR.

TYPE MARK	MANUFACTURER	MODEL NUMBER	AMBIENT TEMPERATURE		TOTAL MBH	HEATING MBH	VOLTAGE	MCA	MOCP	NOTES	EQUIVALENTS
			SUMMER DB/WB	WINTER DB/WB							
HP01	DAIKIN	(3) REYQ120XATJU	95/75	47/43	360	405	208/3	(3) 43.0	(3) 50	1,2,3,4,5,6,7	REFER TO BID ALTERNATE FORM
HP02	DAIKIN	(2) REYQ144XATJU	95/75	47/43	288	324	208/3	(2) 58.3	(2) 70	1,2,3,4,5,6,7	REFER TO BID ALTERNATE FORM
HP03	DAIKIN	(1) REYQ120XATJU (1) REYQ96XATJU	95/75	47/43	216	243	208/3	(1) 43.0 (1) 38.1	(1) 50 (1) 45	1,2,3,4,5,6,7	REFER TO BID ALTERNATE FORM
HP04	DAIKIN	(1) RXQ30MVJU	95/75	17/15	31.4	22.4	208/1	(1) 19.8	(1) 20	1,2,3,4,5,6,7	REFER TO BID ALTERNATE FORM

AIR DEVICE SCHEDULE

NOTES:	
1.	GRILLE/DIFFUSER NECK SHALL BE SAME SIZE AS BRANCH DUCTWORK UNLESS NOTED OTHERWISE ON PLAN.
2.	DIFFUSER DISCHARGE AIR PATTERN SHALL BE 4-WAY UNLESS NOTED BY DIRECTION ON PLANS.
3.	GRILLE/DIFFUSER SHALL BE FIELD PAINTABLE.
4.	PROVIDE PLASTER FRAME ADAPTOR FOR LAYIN INTO GYPSUM CEILING.

TYPE MARK	SYTEM TYPE	MANUFACTURER	MODEL NUMBER	MODULE SIZE	FRAME	FINISH	DAMPER	MAX NC RATING	THROW (FT)	EXTERNAL STATIC (WC)	NOTES	EQUIVALENTS
E01	EXHAUST	KRUEGER	EGC5	SEE PLAN	SURFACE	BY ARCH	-	30	-	0.08"	1,3	TITUS
E02	EXHAUST	KRUEGER	6690	SEE PLAN	LAY-IN	BY ARCH	-	30	-	0.08"	1,2,3	TITUS
E03	EXHAUST	KRUEGER	6690	SEE PLAN	LAY-IN	BY ARCH	-	30	-	0.08"	1,2,3,4	TITUS
R01	RETURN	KRUEGER	6690	SEE PLAN	LAY-IN	BY ARCH	-	30	-	0.08"	1,2,3	TITUS
R02	RETURN	KRUEGER	EGC5	SEE PLAN	SURFACE	BY ARCH	-	30	-	0.08"	1,3	TITUS
S01	SUPPLY	KRUEGER	PLQ	SEE PLAN	LAY-IN	BY ARCH	-	30	-	0.08"	1,2,3	TITUS
S02	SUPPLY	KRUEGER	5880	SEE PLAN	SURFACE	BY ARCH	OBD	30	-	0.08"	1,3	TITUS
S03	SUPPLY	KRUEGER	1500	SEE PLAN	FLOOR	BY ARCH	OBD	30	-	0.08"	1,3	TITUS
S04	SUPPLY	KRUEGER	PLQ	SEE PLAN	LAY-IN	BY ARCH	-	30	-	0.08"	1,2,3,4	TITUS
S05	SUPPLY	KRUEGER	SDMGDR	SEE PLAN	DUCT	BY ARCH	-	30	-	0.08"	1,3	TITUS
S06	SUPPLY	KRUEGER	DMD	SEE PLAN	DUCT	BY ARCH	-	30	-	0.08"	1,3	TITUS
S07	SUPPLY	KRUEGER	5880	SEE PLAN		BY ARCH	-	30	-	0.08"	1,3	TITUS

VRF - FAN COIL UNIT SCHEDULE

NOTES:	
1.	PROVIDE MERV-8 FILTER AND FILTER RACK.
2.	SUSPEND FROM STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE VIBRATION ISOLATION ACCESSORIES.
3.	PROVIDE VRF SYSTEM MANUFACTURER'S PROGRAMMABLE WALL-MOUNTED 7 DAY PROGRAMABLE CONTROLLER/THERMOSTAT.
4.	CONDENSATE PUMP POWERED THROUGH UNIT.
5.	DRAIN PAN WITH CONDENSATE SENSOR AND SHUTDOWN RELAY.
6.	PROVIDE REMOTE RETURN AIR AVERAGING SENSOR.

TYPE MARK	MANUFACTURER	MODEL NUMBER	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (WC)	COOLING		HEATING MBH	VOLTAGE	MCA	MOCP	NOTES	EQUIVALENTS
						SENSIBLE MBH	TOTAL MBH						
FTU01a	DAIKIN	FXTQ36TAVJUA	1050	60	0.5"	18.0	19.0	4.9	208/1	4.9	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU01b	DAIKIN	FXTQ60TAVJUA	1800	105	0.5"	43.4	44.0	16.9	208/1	8.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU01c	DAIKIN	FXMQ96MVJU	2500	265	0.75"	72.4	65.6	32.9	208/1	10.1	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU02	DAIKIN	FXMQ09PBVJU	300	55	0.5"	5.4	5.8	2.6	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU03	DAIKIN	FXMQ48PBVJU	1300	215	0.5"	29.0	32.6	7.8	208/1	3.4	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU04	DAIKIN	FXZQ05TAVJU	300	30	-	2.7	3.2	0.7	208/1	0.3	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU05	DAIKIN	FTX24HVJU	890	30	-	11.4	11.7	0.8	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU06	DAIKIN	FXZQ05TAVJU	300	30	-	2.0	2.3	1.8	208/1	0.3	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU07	DAIKIN	FXMQ48PBVJU	1300	190	0.5"	30.7	34.2	9.5	208/1	3.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU08	DAIKIN	FXMQ07PBVJU	300	50	0.5"	3.6	3.9	1.2	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU09	DAIKIN	FXAQ07PVJU	260	30	-	2.0	2.1	2.0	208/1	0.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU10	DAIKIN	FXAQ07PVJU	260	30	-	0.9	1.0	1.0	208/1	0.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU11	DAIKIN	FXZQ15TAVJU	405	60	-	6.7	8.3	3.3	208/1	0.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU12	DAIKIN	FXMQ36PBVJU	1100	345	0.5"	19.6	22.9	6.9	208/1	2.9	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU13	DAIKIN	FXMQ36PBVJU	1100	265	0.5"	22.1	26.0	14.4	208/1	2.9	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU14	DAIKIN	FXMQ24PBVJU	680	200	0.5"	13.7	16.0	8.2	208/1	1.8	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU15	DAIKIN	FXMQ54PBVJU	1600	400	0.5"	27.8	35.7	8.8	208/1	3.4	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU16	DAIKIN	FXMQ48PBVJU	1300	430	0.5"	25.0	28.2	7.6	208/1	3.4	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU17	DAIKIN	FXMQ48PBVJU	1300	425	0.5"	27.0	30.4	8.3	208/1	3.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU18	DAIKIN	FXMQ48PBVJU	1300	365	0.5"	28.2	32.4	12.6	208/1	3.4	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU19	DAIKIN	FXMQ07PBVJU	300	65	0.5"	4.9	6.2	1.0	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU20	DAIKIN	FXMQ09PBVJU	300	95	0.5"	6.5	8.7	1.1	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU21	DAIKIN	FXMQ15PBVJU	560	85	0.5"	9.3	10.9	10.1	208/1	1.5	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU22	DAIKIN	FXZQ15TAVJU	405	30	-	6.1	6.4	1.4	208/1	0.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU23	DAIKIN	FXMQ54PBVJU	1600	525	0.5"	29.8	34.8	7.5	208/1	3.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU24	DAIKIN	FXMQ36PBVJU	1100	380	0.5"	22.8	25.4	7.4	208/1	2.9	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU25a	DAIKIN	FXMQ72MVJU	2000	800	0.75"	42.0	53.7	4.4	208/1	9.5	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU25b	DAIKIN	FXMQ72MVJU	2000	800	0.75"	42.0	53.7	4.4	208/1	9.5	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU26	DAIKIN	FXAQ07PVJU	260	40	-	2.9	3.3	1.8	208/1	0.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU27	DAIKIN	FXZQ18TAVJU	500	45	-	14.8	16.2	1.9	208/1	0.6	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU28	DAIKIN	FXMQ72MVJU	2000	220	0.75"	45.1	50.6	18.1	208/1	10.1	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU29	DAIKIN	FXMQ48PBVJU	1300	240	0.75"	34.4	39.9	11.7	208/1	2.9	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM
FTU30	DAIKIN	FXAQ07PVJU	260	-	-	2.9	3.3	4.3	208/1	0.4	15	1,2,3,4,5	REFER TO BID ALTERNATE FORM
FTU31	DAIKIN	FXMQ36PBVJU	1100	345	0.5"	21.6	25.0	5.6	208/1	2.9	15	1,2,3,4,5,6	REFER TO BID ALTERNATE FORM

ROOFTOP UNIT SCHEDULE

NOTES:	
1.	FILTER RACK. PROVIDE A MINIMUM MERV 8 FILTER.
2.	CRANKCASE HEATER.
3.	5-YEAR COMPRESSOR AND 10-YEAR HEAT EXCHANGER WARRENTY.
4.	CONDENSER COIL HAIL GUARDS.
5.	OUTSIDE AIR HOOD.
6.	FACTORY MOUNTED DISCONNECTS.
7.	STAINLESS STEEL HEAT EXCHANGER.
8.	FACTORY INSTALLED, FIELD POWERED GFCI RECEPTACLE.
9.	PROVIDE TERMINAL STRIP FOR CONTROLS BY BAS CONTRACTOR. REFER TO SPECIFICATION SECTIONS 23 09 23 AND 23 09 93.
10.	POWERED EXHAUST.
11.	0-100% MODULATING OUTDOOR AIR ECONOMIZER.
12.	PROVIDE 14" INSULATED ROOF CURB.
13.	VARIABLE SPPED ECM MOTROS OR VFDS ON ALL FANS.
14.	(1) VARIABLE SPEED COMPRESSOR AND (1) SINGLE STAGE COMPRESSOR.
15.	DOUBLE WALL CONSTRUCTION.
16.	MODULATING HOT GAS REHEAT FOR DEHUMIDIFICATION CONTROL.
17.	10:1 MODULATING HEATING CONTROL

TYPE MARK	MANUFACTURER	MODEL NUMBER	EER (SEER)	TONNAGE	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	FAN (BHP)	EXTERNAL STATIC (WC)	ENTERING AIR DB	ENTERING AIR WB	SENSIBLE (MBH)	TOTAL (MBH)	HEATING ENTERING AIR DB	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	LEAVING AIR DB	MCA	MOCP	VOLTAGE	Weight (LBS)	NOTES	EQUIVALENTS
RTU01	DAIKIN	DPS-015-AHMG2	11.0	15	5500	600		0.75"	73.4	61.2	138.7	161.14	63	300	240	95	67.1	90	208/3	2476	1 THRU 17	REFER TO BID ALTERNATE FORM

DEDICATED OUTSIDE AIR UNIT SCHEDULE

NOTES:	
1.	FACTORY MOUNTED DISCONNECTING MEANS.
2.	MOTORIZED EXHAUST AND OUTSIDE AIR DAMPERS.
3.	2" MERV 8 FILTERS ON SUPPLY AND EXHAUST AIR STREAMS.
4.	WHEEL ROTATION SENSOR.
5.	DIRTY FILTER SENSOR
6.	TIMED EXHAUST FROST CONTROL.
7.	INTAKE AND EXHAUST HOOD.
8.	DOUBLE WALL CONSTRUCTION.
9.	CONTROLLER PROVIDED BY BAS CONTRACTOR FOR ADDITIONAL CONTROL OF UNIT. PROVIDE BACNET CARD FOR ADDTIONAL MONITORING POINTS TO INTEGRATE INTO THE BAS SYSTEM.
10.	ECM MOTORS ON BOTH SUPPLY AND EXHAUST FANS.
11.	MODULATING GAS VALVE.
12.	MODULATING HOT GAS REHEAT COIL.
13.	NON-POWER CONVENIENCE RECEPTACLE.
14.	CONDENSER HAIL GUARDS.

TYPE MARK	MANUFACTURER	MODEL NUMBER	SUPPLY AIR (CFM)	EXHAUST AIR (CFM)	ENERGY RECOVERY						SUPPLY FAN		EXHAUST FAN		COOLING				HEATING				VOLTAGE	MCA	MOCP	WEIGHT	NOTES	EQUIVALENTS
					COOLING			HEATING							EAT (DB/WB)	SENSIBLE (MBH)	HGRH (MBH)	TOTAL (MBH)	LAT (DB/WB)	ETA (DB/WB)	INPUT (MBH)	OUTPUT (MBH)	LAT (DB/WB)						
					SA (DB/WB)	RA (DB/WB)	OA (DB/WB)	SA (DB/WB)	RA (DB/WB)	OA (DB/WB)	ESP (WC)	HP	ESP (WC)	HP														
DOA01	DAIKIN	DPS007A	2250	2000	80.5/66.3	75/62	95/75	48.9/37.9	70/50	0/0	2.8"	4.0	1.5"	2.3	80.5/66.3	70.0	41.0	89.6	53.2/53.2	45.5	200	160	114.4	208/3	42.7	50	2457	1 THRU 14	REFER TO BID ALTERNATE FORM
DOA02	DAIKIN	DPS018A	5000	4500	81.4/66.9	75/62	95/75	45.5/35.8	70/50	0/0	3.5"	7.5	1.5"	4.0	81.4/66.9	149.0	86.0	197.3	54.1/54.1	45.5	450	360	111.9	208/3	106.6	150	4268	1 THRU 14	REFER TO BID ALTERNATE FORM

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12/23/2019

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Revision No.	Description	Date
2	Addendum #02	01-20-2020

Project No.	Date	Drawn
WP10	12/23/2019	JK

Drawing No.
M300
MECHANICAL SCHEDULES

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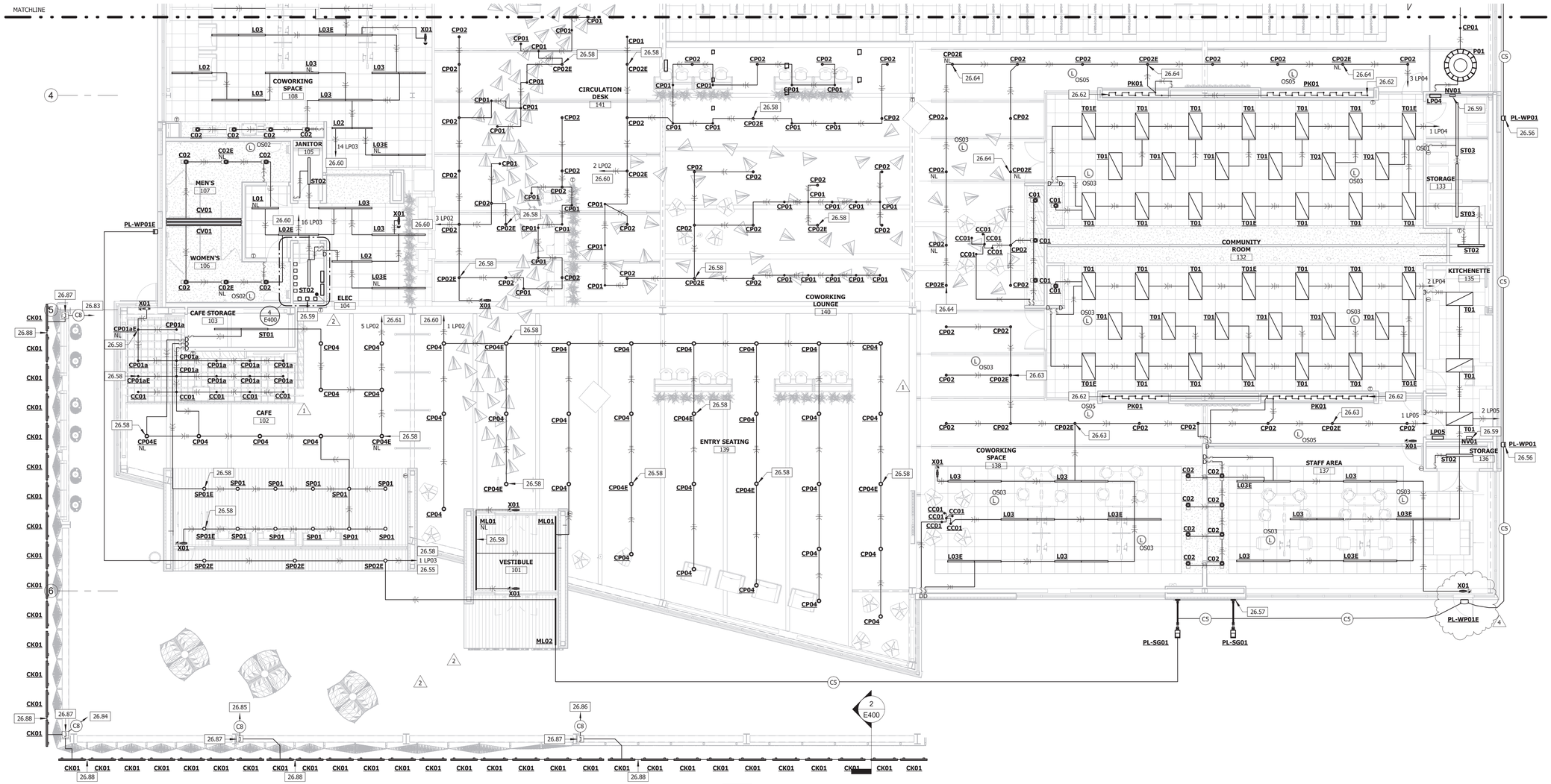
CONDUIT AND CONDUCTORS

KEY VALUE	SIZE AND QUANTITY
C5	(2) #8 AND (1) #10 GROUND IN 0.75" CONDUIT.
C8	(3) #10 AND (1) #10 IN 0.75" CONDUIT.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.55	CIRCUIT THROUGH LIGHTING CONTACTOR LC04.
26.56	INSTALL TOP OF WALL PACK AT 12'-0" ABOVE FINISH FLOOR. COORDINATE WITH ARCHITECT.
26.57	REFER TO ARCHITECTURAL ELEVATIONS FOR INSTALLATION HEIGHTS.
26.58	CIRCUIT THROUGH INVERTER IN ELECTRICAL 104 FOR EMERGENCY EGRESS LIGHTING.
26.59	LOCATION OF INVERTOR(S).
26.60	CIRCUIT THROUGH ASSOCIATED ZONE DIMMER SWITCH LOCATED IN COLLECTION SERVICES / WORKROOM 113. CIRCUIT THROUGH LIGHTING CONTACTOR LC05 FOR AUTOMATIC SHUT-OFF DURING UNOCCUPIED HOURS. REFER TO LIGHTING CONTROL DETAIL.
26.61	CIRCUIT THROUGH LIGHTING CONTACTOR LC05 FOR AUTOMATIC SHUT-OFF.
26.62	INSTALL PUCK LIGHTS ON THE TOP OF THE CABINET. REFER TO ARCHITECTURAL SECTIONS. PUCK LIGHTS SHALL BE CONTROLLED ON/OFF BY NEAREST OCCUPANCY SENSOR.
26.63	CIRCUIT THROUGH INVERTER ABOVE CEILING IN KITCHENETTE 134 FOR EMERGENCY EGRESS LIGHTING .
26.64	CIRCUIT THROUGH INVERTER IN STORAGE 133 FOR EMERGENCY EGRESS LIGHTING.
26.83	WIRE TO COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 1. ROUTE CONDUIT AND CONDUCTORS TO MINIMIZE LENGTH. FIELD VERIFY ROUTING AND MAXIMUM LENGTH PRIOR TO INSTALLATION.
26.84	WIRE TO COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 2. ROUTE CONDUIT AND CONDUCTORS TO MINIMIZE LENGTH. FIELD VERIFY ROUTING AND MAXIMUM LENGTH PRIOR TO INSTALLATION.
26.85	WIRE TO COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 3. ROUTE CONDUIT AND CONDUCTORS TO MINIMIZE LENGTH. FIELD VERIFY ROUTING AND MAXIMUM LENGTH PRIOR TO INSTALLATION.
26.86	WIRE TO COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 4. ROUTE CONDUIT AND CONDUCTORS TO MINIMIZE LENGTH. FIELD VERIFY ROUTING AND MAXIMUM LENGTH PRIOR TO INSTALLATION.
26.87	PROVIDE EXTERIOR RATED JUNCTION BOX. CONNECT. CONNECT BRANCH WIRE FROM ASSOCIATED COLOR KINETICS DATA ENABLE PRO TO COLOR KINETICS COLORGRAZE POWERCORE LEADER CABLE. PAINT TO MATCH CANOPY STRUCTURE.
26.88	PROVIDE COLOR KINETICS COLORGRAZE POWERCORE JUMPER CABLE. CONNECT BETWEEN ALL LIGHT FIXTURES WITHIN ASSOCIATED ZONE (TYPICAL).



1 LIGHTING PLAN - AREA A
1/8" = 1'-0"

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Revision No.	Description	Date
1	Addendum #01	01-13-2020
2	Addendum #02	01-20-2020
4	SI #02	03-13-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
E100
LIGHTING PLAN - AREA A

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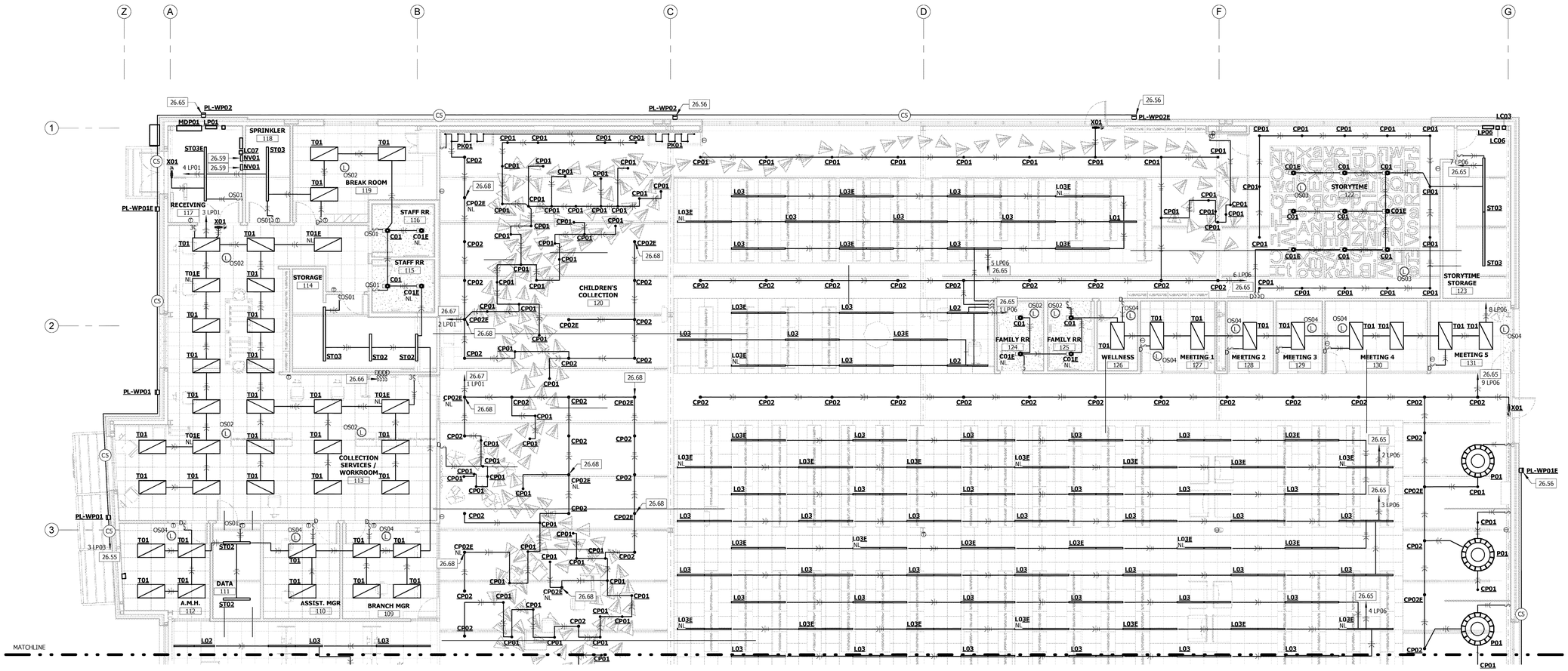
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.55	CIRCUIT THROUGH LIGHTING CONTACTOR LC04.
26.56	INSTALL TOP OF WALL PACK AT 12'-0" ABOVE FINISH FLOOR. COORDINATE WITH ARCHITECT.
26.59	LOCATION OF INVERTOR(S).
26.65	CIRCUIT THROUGH ASSOCIATED ZONE DIMMER SWITCH LOCATED IN COLLECTION SERVICES / WORKROOM 113. CIRCUIT THROUGH LIGHTING CONTACTOR LC06 FOR AUTOMATIC SHUT-OFF DURING UNOCCUPIED HOURS. REFER TO LIGHTING CONTROL DETAIL.
26.66	LOCATION OF ZONE DIMMERS FOR CONTROL OF LIBRARY LIGHTS.
26.67	CIRCUIT THROUGH ASSOCIATED ZONE DIMMER SWITCH LOCATED IN COLLECTION SERVICES / WORKROOM 113. CIRCUIT THROUGH LIGHTING CONTACTOR LC07 FOR AUTOMATIC SHUT-OFF DURING UNOCCUPIED HOURS. REFER TO LIGHTING CONTROL DETAIL.
26.68	CIRCUIT THROUGH INVERTER IN RECEIVING 117 FOR EMERGENCY EGRESS LIGHTING.



1 LIGHTING PLAN - AREA B
1/8" = 1'-0"

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Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.

E101

LIGHTING PLAN - AREA B

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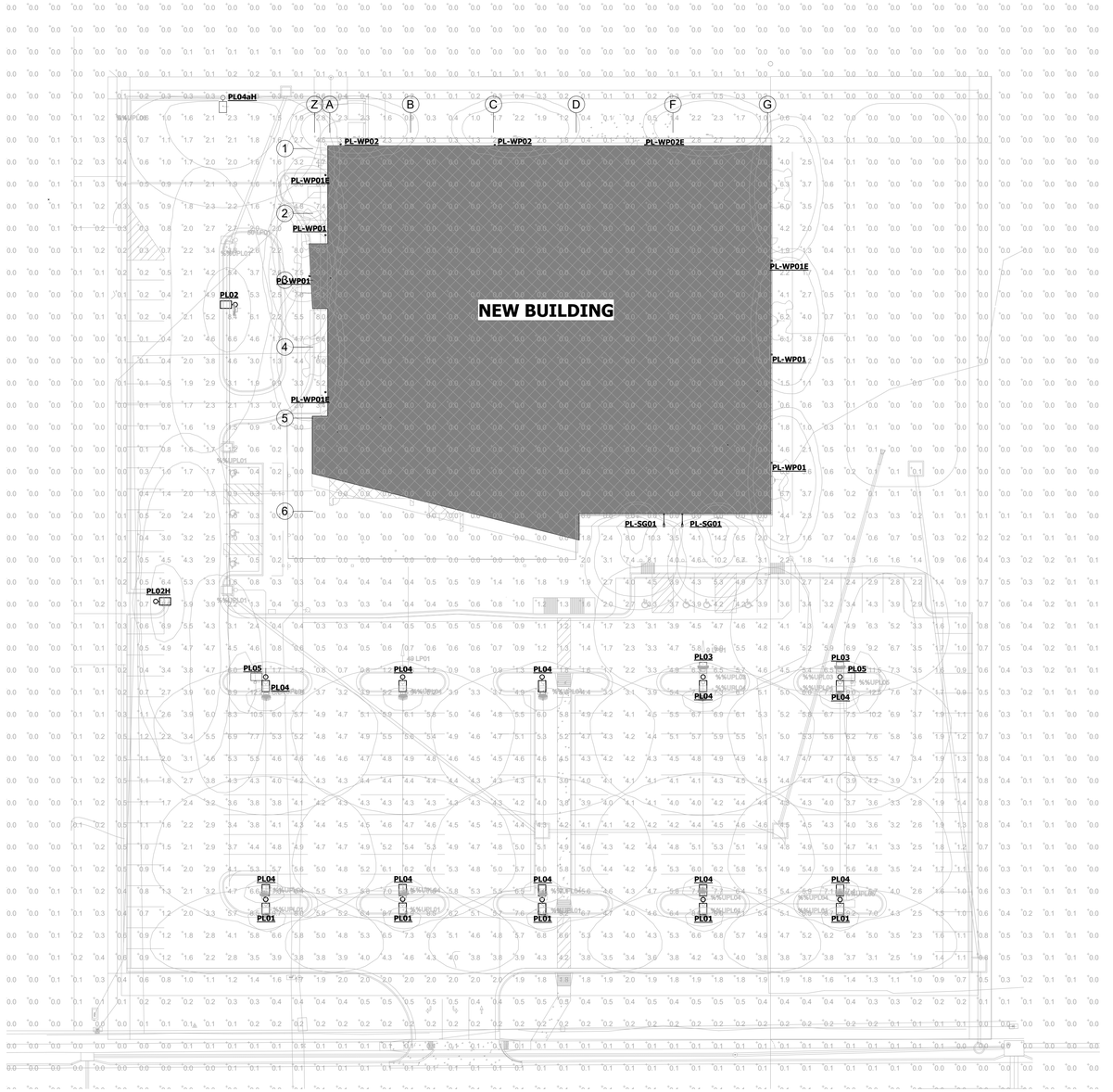
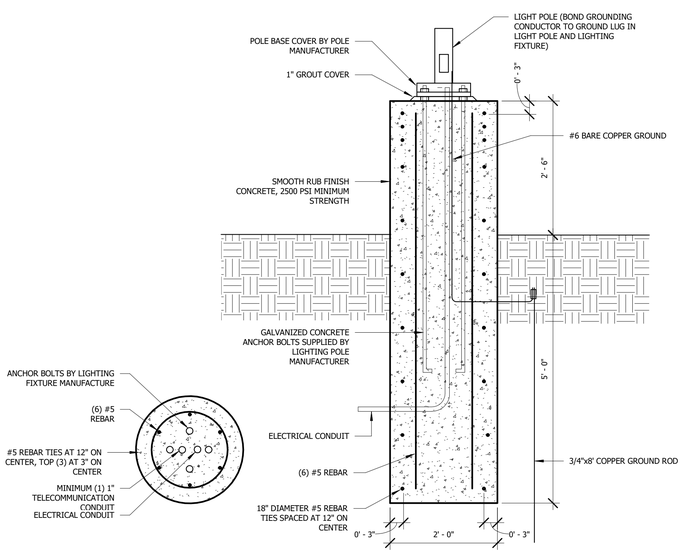
PARKING LOT LIGHTING FIXTURE SCHEDULE

NOTES:	
1.	FIXTURE SHALL BE RATED FOR OUTDOOR USE.
2.	PROVIDE 20' SQUARE POLE.

TYPE MARK	MANUFACTURER	MODEL NUMBER	DRIVER	FINISH	VOLTAGE	LAMP TYPE	COLOR TEMP	TOTAL WATTAGE	NOTES	EQUIVALENTS
PL01	SIGNIFY	ECF-S-32L-1.2A-NW-G2-AR-2-208-MGY	STD	MEDIUM GRAY	208	LED	4000	122	1,2	SUBMIT
PL02	SIGNIFY	ECF-S-48L-1.2A-NW-G2-AR-2-208-MGY	STD	MEDIUM GRAY	208	LED	4000	122	1,2	SUBMIT
PL02H	SIGNIFY	ECF-S-48L-1.2A-NW-G2-AR-2-208-HIS-MGY	STD	MEDIUM GRAY	208	LED	4000	122	1,2	SUBMIT
PL03	SIGNIFY	ECF-S-48L-1.2A-NW-G2-AR-3-208-MGY	STD	MEDIUM GRAY	208	LED	4000	183	1,2	SUBMIT
PL04	SIGNIFY	ECF-S-48L-1.2A-NW-GR-AR-4-208-MGY	STD	MEDIUM GRAY	208	LED	4000	183	1,2	SUBMIT
PL04aH	SIGNIFY	ECF-S-32L-1.2A-NW-G2-AR-2-208-HIS-MGY	STD	MEDIUM GRAY	208	LED	4000	122	1,2	SUBMIT
PL05	SIGNIFY	ECF-S-32L-1.2A-NW-G2-AR-5-208-MGY	STD	MEDIUM GRAY	208	LED	4000	183	1,2	SUBMIT
PL-SG01	BEGA	BEGA-24509K4	DIM	BY ARCH	208	LED	4000	56	1	SUBMIT
PL-WP01	EATON	ENC-E02-LED-E1-BL2-{FINISH}	-	BY ARCH	208	LED	4000	47	1	SUBMIT
PL-WP01E	EATON	ENC-E02-LED-E1-BL2-{FINISH}	-	BY ARCH	208	LED	4000	47	1	SUBMIT
PL-WP02	EATON	ENC-E01-LED-E1-BL2-{FINISH}	-	BY ARCH	208	LED	4000	25	1	SUBMIT
PL-WP02E	EATON	ENC-E01-LED-E1-BL2-{FINISH}	-	BY ARCH	208	LED	4000	25	1	SUBMIT



1 SITE PHOTOMETRIC PLAN
1" = 30'-0"



2 PARKING LOT LIGHT POLE BASE
NOT TO SCALE

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NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019

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Missouri State Certificate of Authority #E-2016000752

Revision No.	Description	Date
1	Addendum #01	01-13-2020

Project No.	Date	Drawn
WP10	12/23/2019	JN

Drawing No.
E102
SITE PHOTOMETRIC PLAN

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TELECOM CONDUITS

KEY VALUE	SIZE AND QUANTITY

CONDUIT AND CONDUCTORS

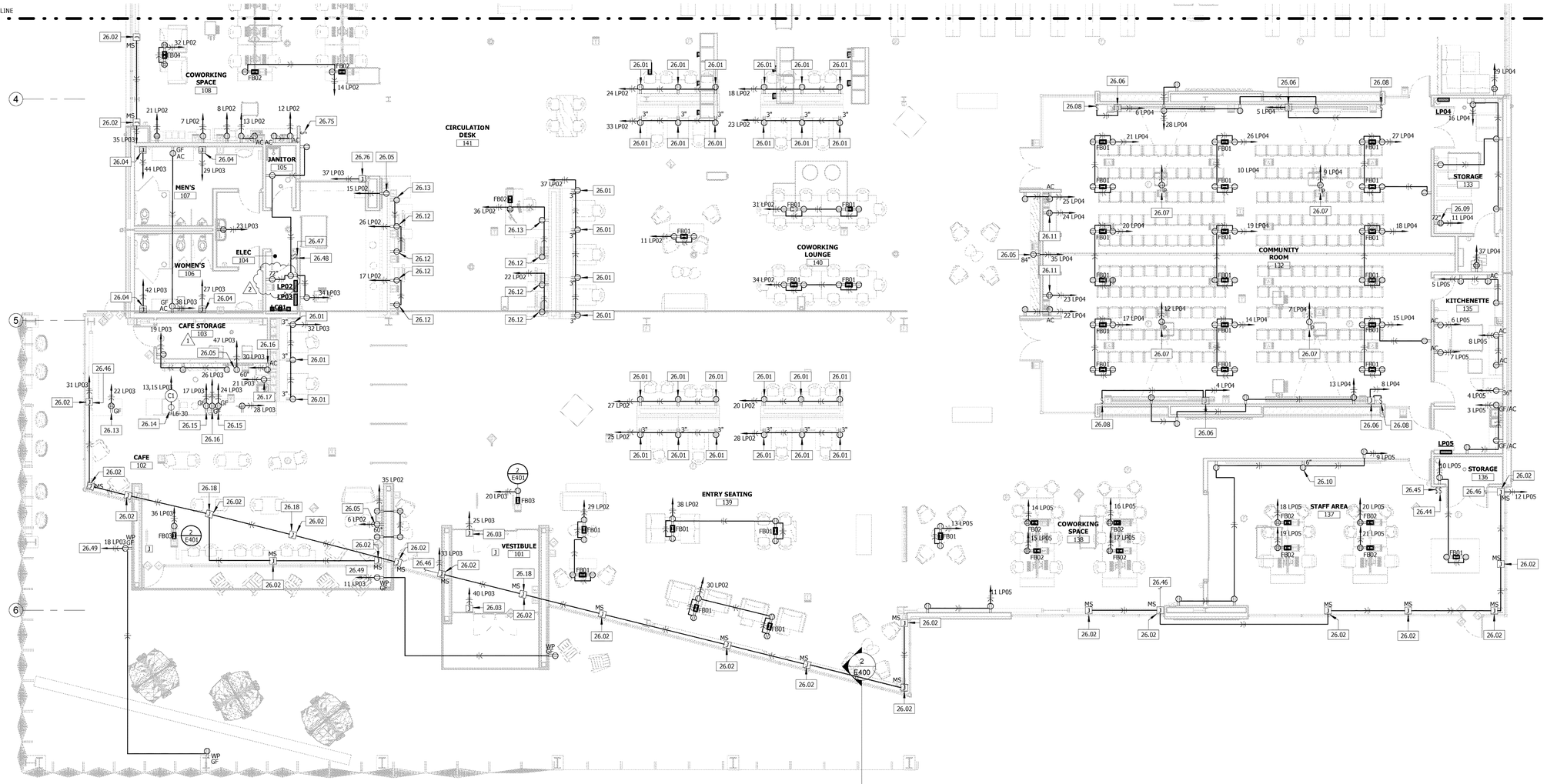
KEY VALUE	SIZE AND QUANTITY
C1	(2) #10 AND (1) #10 IN 0.75" CONDUIT.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.15	PROVIDE RECEPTACLE ABOVE COUNTER FOR BLENDERS. FIELD VERIFY POWER REQUIREMENTS WITH VENDOR PRIOR TO INSTALLING.
26.16	PROVIDE RECEPTACLE FOR ICE MAKER. REFER TO ARCHITECTURAL DRAWINGS FOR ICE MAKER INSTALLATION LOCATIONS (ABOVE OR UNDER COUNTER). FIELD VERIFY POWER REQUIREMENTS WITH VENDOR PRIOR TO INSTALLING.
26.17	PROVIDE RECEPTACLE FOR DISHWASHER. FIELD VERIFY POWER REQUIREMENTS WITH VENDOR PRIOR TO INSTALLING.
26.18	PROVIDE CONNECTION TO UPPER WINDOWS. REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATION.
26.44	LOW VOLTAGE SWITCHES TO CONTROL SHADES IN STAFF AREA 136. REFER TO MOTORIZED SHADE CONTROL DETAIL.
26.45	LOW VOLTAGE SWITCHES TO CONTROL SHADES IN COWORKING SPACE 137. REFER TO MOTORIZED SHADE CONTROL DETAIL.
26.46	LOW VOLTAGE WIRING TO SWITCHES FOR CONTROL OF MOTORIZED SHADES. REFER TO KEYNOTE OF ASSOCIATED SWITCH.
26.47	LOW VOLTAGE SWITCHES TO CONTROL SHADES IN CAFE AREA. REFER TO MOTORIZED SHADE CONTROL DETAIL.
26.48	LOW VOLTAGE SWITCHES TO CONTROL SHADES IN ENTRY SEATING 138. REFER TO MOTORIZED SHADE CONTROL DETAIL.
26.49	CIRCUIT TO CONTACTOR LC01.
26.75	LOCATION OF KEYED SWITCH FOR COILING SECURITY DOOR.
26.76	PROVIDE POWER CONNECTION TO MOTORIZED COILING SECURITY DOOR. CONFIRM POWER REQUIREMENTS WITH MANUFACTURE PRIOR TO INSTALLING.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.01	INSTALL UNDERNEATH BOOTH. FIELD COORDINATE LOCATION AND INSTALLATION WITH ARCHITECTURAL DETAILS AND MILLWORK CONTRACTOR.
26.02	PROVIDE ELECTRICAL CONNECTION TO MOTORIZED SHADE MOTOR. COORDINATE WITH SELECTED SHADE VENDOR.
26.03	PROVIDE ELECTRICAL CONNECTION TO AUTOMATIC DOOR OPENERS.
26.04	PROVIDE ELECTRICAL CONNECTION TO HAND DRYER.
26.05	COORDINATE INSTALLATION HEIGHT OF RECEPTACLE WITH DIGITAL DISPLAY.
26.06	PROVIDE POWER CONNECTION TO MOTORIZED SCREEN. COORDINATE LOCATION AND POWER REQUIREMENTS WITH SELECTED VENDOR.
26.07	PROVIDE POWER TO CEILING PROJECTOR.
26.08	PROVIDE SWITCH FOR MOTORIZED DROPDOWN SCREEN. COORDINATE LOCATIONS WITH SCREEN. SWITCH SHOULD NOT BE INSTALLED BEHIND THE SCREEN.
26.09	PROVIDE QUAD OUTLET FOR AUDIO VISUAL EQUIPMENT.
26.10	INSTALL RECEPTACLE HORIZONTAL UNDERNEATH MARKER BOARDS. APPROXIMATELY 6" ABOVE FINISH FLOOR. COORDINATE WITH ARCHITECTURAL ELEVATIONS.
26.11	PROVIDE RECEPTACLE BELOW COUNTER IN MILLWORK FOR AUDIO VISUAL EQUIPMENT.
26.12	PROVIDE POWER CONNECTION TO SELF CHECK KIOSK. COORDINATE LOCATION WITH VENDOR PRIOR TO INSTALLING.
26.13	INSTALL RECEPTACLE IN MILLWORK.
26.14	PROVIDE ELECTRICAL CONNECTION TO ESPRESSO MACHINE. FIELD VERIFY POWER REQUIREMENTS WITH VENDOR PRIOR TO INSTALLING.



1 POWER PLAN - AREA A
1/8" = 1'-0"

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Revision No.	Description	Date
1	Addendum #01	01-13-2020
2	Addendum #02	01-20-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
E200
POWER PLAN - AREA A

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TELECOM CONDUITS

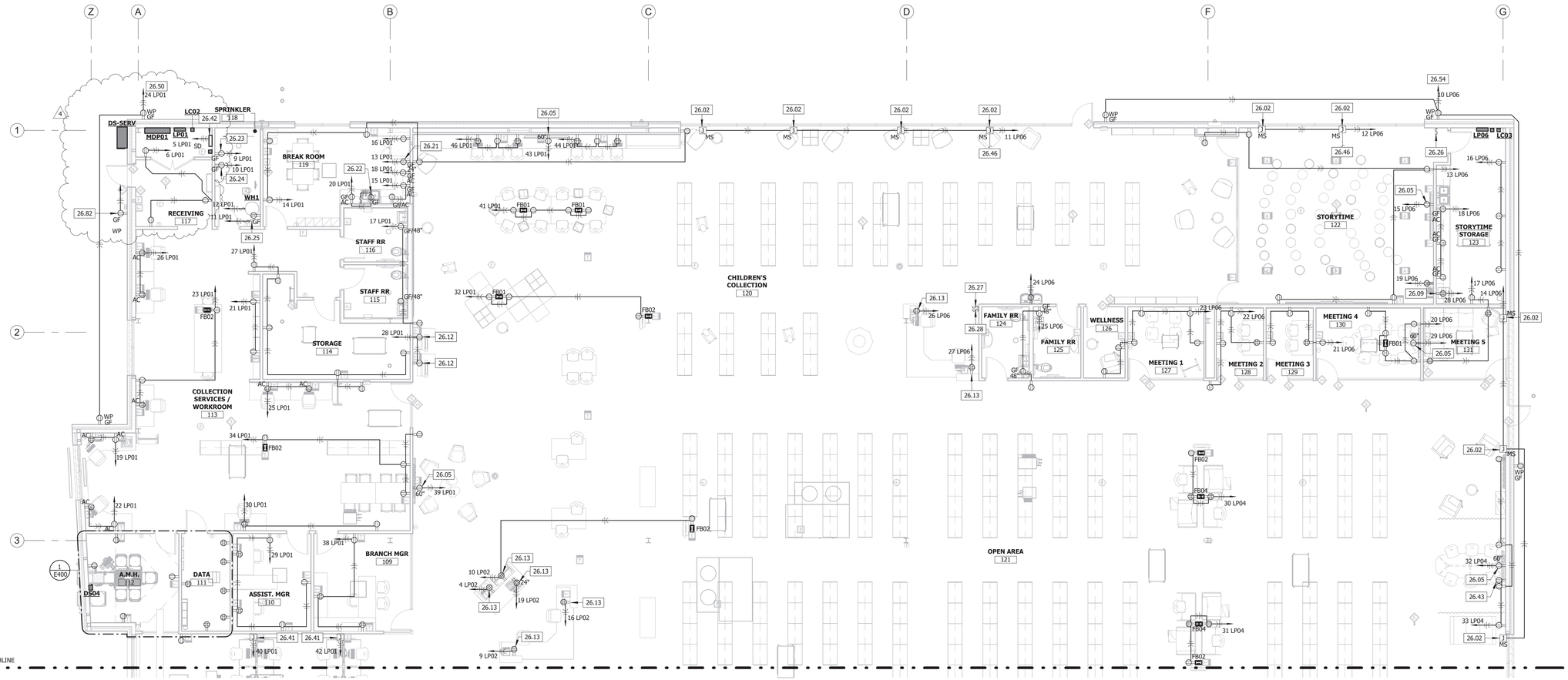
KEY VALUE	SIZE AND QUANTITY

CONDUIT AND CONDUCTORS

KEY VALUE	SIZE AND QUANTITY

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.02	PROVIDE ELECTRICAL CONNECTION TO MOTORIZED SHADE MOTOR. COORDINATE WITH SELECTED SHADE VENDOR.
26.05	COORDINATE INSTALLATION HEIGHT OF RECEPTACLE WITH DIGITAL DISPLAY.
26.09	PROVIDE QUAD OUTLET FOR AUDIO VISUAL EQUIPMENT.
26.12	PROVIDE POWER CONNECTION TO SELF CHECK KIOSK. COORDINATE LOCATION WITH VENDOR PRIOR TO INSTALLING.
26.13	INSTALL RECEPTACLE IN MILLWORK.
26.21	INSTALL RECEPTACLE BELOW COUNTER FOR MICROWAVE CONNECTION.
26.22	PROVIDE SWITCHED RECEPTACLE FOR GARBAGE DISPOSAL.
26.23	PROVIDE POWER CONNECTION TO AIR COMPRESSOR BY FIRE SPRINKLER CONTRACTOR. COORDINATE FINAL POWER REQUIREMENTS WITH SELECTED FIRE SPRINKLER CONTRACTOR.
26.24	PROVIDE ELECTRICAL CONNECTION TO PRE-ACTION CONTROL PANEL.
26.25	PROVIDE ELECTRICAL CONNECTION TO RECIRCULATING PUMP. COORDINATE WITH PLUMBING CONTRACTOR.
26.26	LOW VOLTAGE SWITCHES TO CONTROL SHADES IN STORYTIME AREA. REFER TO MOTORIZED SHADE CONTROL DETAIL.
26.27	LOW VOLTAGE SWITCH TO CONTROL SHADES ON NORTH WALL OF CHILDREN'S CONNECTION.
26.28	LOW VOLTAGE SWITCH TO CONTROL SHADES ON EAST WALL OF MEETING 131 AND OPEN AREA 121.
26.41	ROUTE POWER DOWN WALL TO SYSTEMS FURNITURE. CONFIRM POWER CONNECTIONS WITH FURNITURE PROVIDER.
26.42	PROVIDE ELECTRICAL CONNECTION TO FIRE-LITE ADDRESSABLE FIRE ALARM PANEL.
26.43	COORDINATE OUTLET LOCATION WITH SPECIFIED TACKWALL. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
26.46	LOW VOLTAGE WIRING TO SWITCHES FOR CONTROL OF MOTORIZED SHADES. REFER TO KEYNOTE OF ASSOCIATED SWITCH.
26.50	CIRCUIT TO CONTACTOR LC02.
26.54	CIRCUIT THROUGH LIGHTING CONTACTOR LC03.
26.82	PROVIDE RECEPTACLE FOR IRRIGATION CONTROLLER.



1 POWER PLAN - AREA B
1/8" = 1'-0"

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12/23/2019

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Revision No.	Description	Date
4	SI #02	03-13-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
E201
POWER PLAN - AREA B

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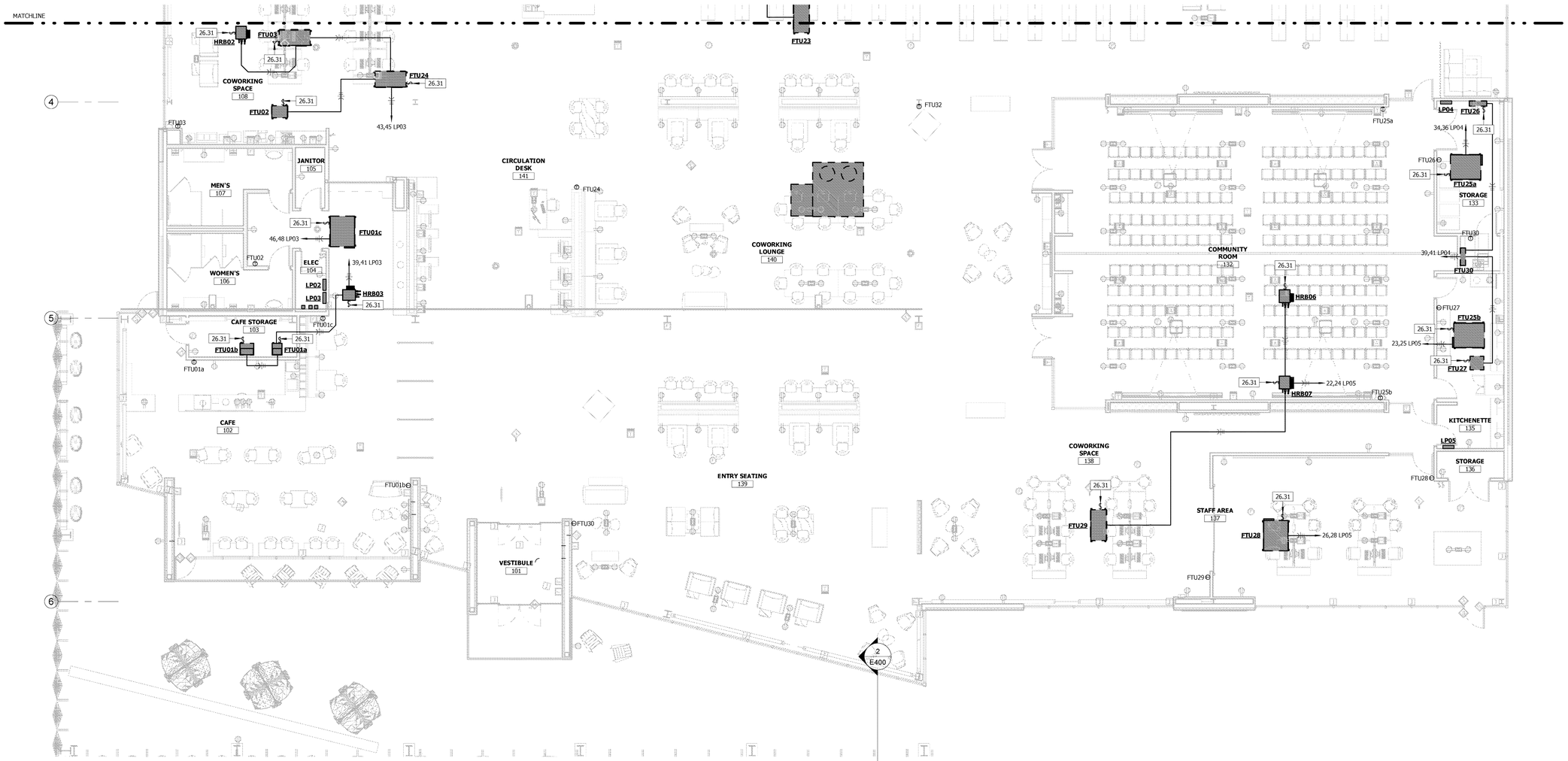
TELECOM CONDUITS	
KEY VALUE	SIZE AND QUANTITY

CONDUIT AND CONDUCTORS	
KEY VALUE	SIZE AND QUANTITY

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
26.31	PROVIDE 2-POLE, 20-AMP SWITCH FOR FAN COIL/HEAT RECOVERY BOX DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.



1 HVAC POWER PLAN - AREA A
1/8" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
E202
HVAC POWER PLAN - AREA A

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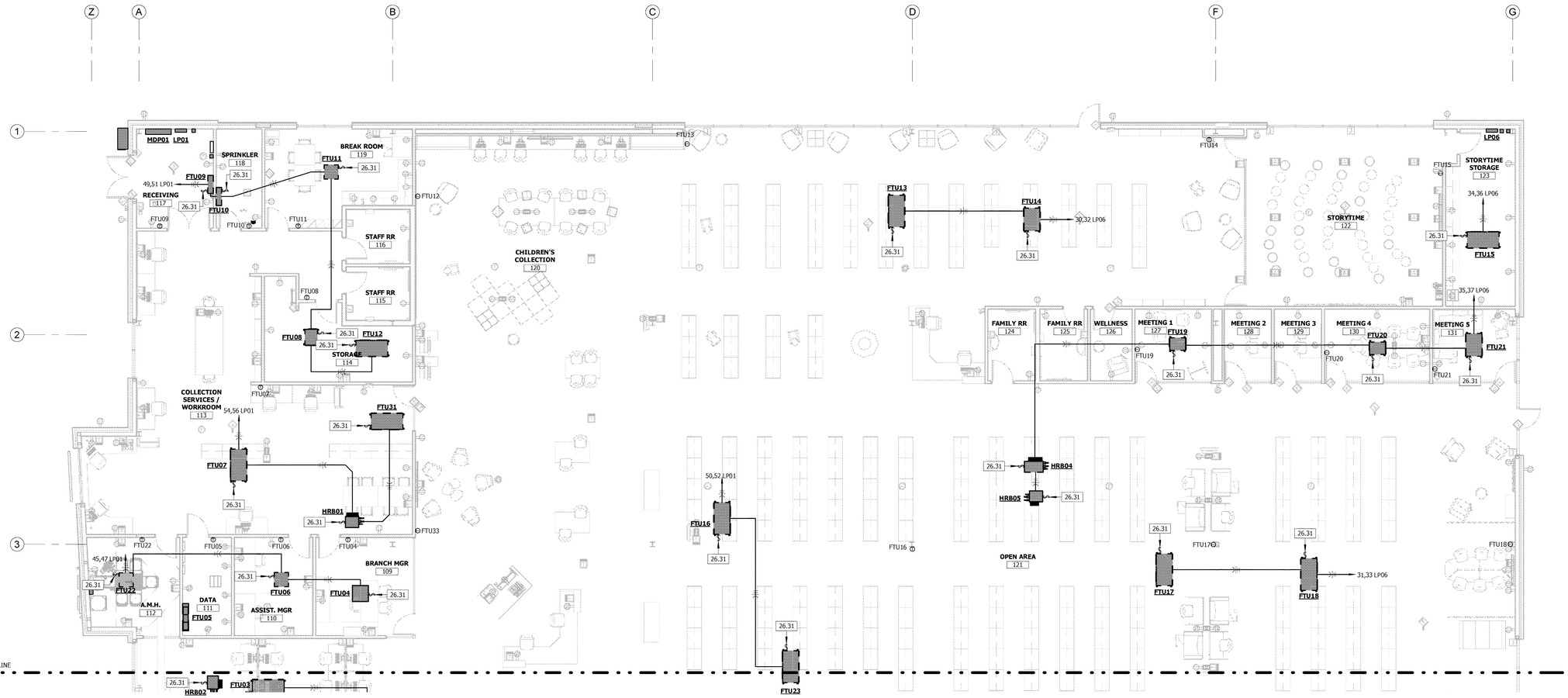
TELECOM CONDUITS	
KEY VALUE	SIZE AND QUANTITY

CONDUIT AND CONDUCTORS	
KEY VALUE	SIZE AND QUANTITY

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
26.31	PROVIDE 2-POLE, 20-AMP SWITCH FOR FAN COIL/HEAT RECOVERY BOX DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.



1 HVAC POWER PLAN - AREA B
1/8" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP 10	12/23/2019	Author

Drawing No.
E203
HVAC POWER PLAN - AREA B

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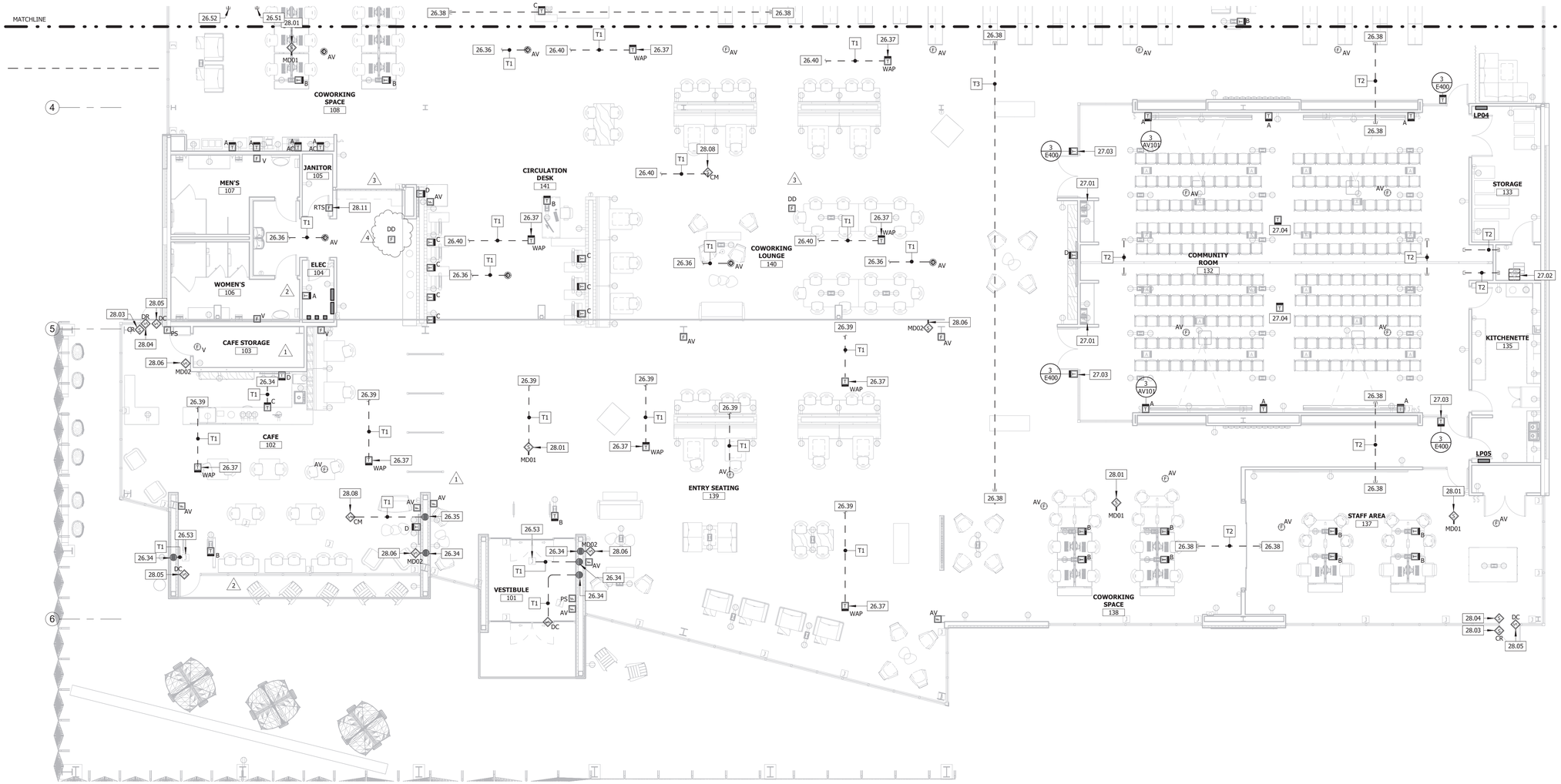
TELECOM CONDUITS

KEY VALUE	SIZE AND QUANTITY
T1	(1) 1" CONDUIT(S) WITH PULL STRING.
T2	(2) 2" CONDUIT(S) WITH PULL STRING.
T3	(3) 2" CONDUIT(S) WITH PULL STRING.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.34	ROUTE 1" CONDUIT DOWN WALL UNDER SLAB TO NEAREST ELECTRICAL/STORAGE ROOM FOR SECURITY WIRING.
26.35	ROUTE 1" CONDUIT DOWN WALL UNDER SLAB TO 111 DATA.
26.36	ROUTE 1" CONDUIT IN EXPOSED CEILING AREA TO LAY-IN CEILING FOR FIRE ALARM WIRING.
26.37	PROVIDE DOUBLE GANG JUNCTION BOX FOR CONNECTION TO OWNER PROVIDED WIRELESS ACCESS POINT.
26.38	TERMINATE TELECOMMUNICATIONS CONDUIT ABOVE LAY-IN CEILING. PROVIDE PLASTIC BUSING ON THE END OF THE CONDUIT.
26.39	ROUTE 1" CONDUIT IN EXPOSED ENTRY SEATING TO NEAREST VERTICAL STEEL COLUMN. ROUTE DOWN COLUMN AND TERMINATE AT NEAREST LAY-IN CEILING.
26.40	ROUTE 1" CONDUIT IN EXPOSED AREA TO NEAREST LAY-IN CEILING FOR TELECOMMUNICATIONS WIRING.
26.51	PROVIDE CONDUITS FROM DATA ROOM TO ADJACENT CEILING FOR DATA WIRING ONLY.
26.52	PROVIDE CONDUITS FROM DATA ROOM TO ADJACENT CEILING FOR SECURITY, BUILDING AUTOMATION SYSTEMS, AND NON DATA WIRING.
26.53	PROVIDE A SINGLE GANG JUNCTION BOX CENTERED 3' FROM SOUTH DOORS FOR LIBRARY PEOPLE COUNTER.
27.01	LOCATION FOR AUDIO VISUAL CABINET. REFER TO AV RISER FOR REQUIREMENTS.
27.02	LOCATION FOR OWNER PROVIDE RACK. SHOWN FOR REFERENCE ONLY.
27.03	ROOM SCHEDULE. REFER TO DETAIL.
27.04	CEILING DATA DEVICE FOR PROJECTOR. FIELD VERIFY LOCATION PRIOR TO INSTALLATION.
28.01	PROVIDE 360 CEILING MOUNTED MOTION DETECTORS.
28.03	PROVIDE ACCESS CONTROL CARD SWIPE. CONFIRM LOCATION WITH OWNER PRIOR TO INSTALLING. COORDINATE WITH STOREFRONT PROVIDER.
28.04	PROVIDE DOOR RELEASE. COORDINATE HARDWARE WITH ARCHITECTURAL DRAWINGS.
28.05	PROVIDE DOOR CONTACTS. COORDINATE LOCATION WITH SECURITY AND DOOR VENDOR.
28.06	PROVIDE WALL MOUNT MOTION DETECTOR.
28.08	PROVIDE 4X4 SURFACE MOUNTED JUNCTION BOX FOR TERMINATION OF CAMERA PROVIDED BY OWNER.
28.11	PROVIDE REMOTE TEST STATION(S) FOR DUCT SMOKE DETECTORS. ONLY ONE SHOWN FOR CLARITY.



1 SPECIALTY SYSTEMS PLAN - AREA A
1/8" = 1'-0"

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Revision No.	Description	Date
1	Addendum #01	01-13-2020
2	Addendum #02	01-20-2020
3	SI #01	02-17-2020
4	SI #02	03-13-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
E300
SPECIALTY SYSTEMS PLAN - AREA A

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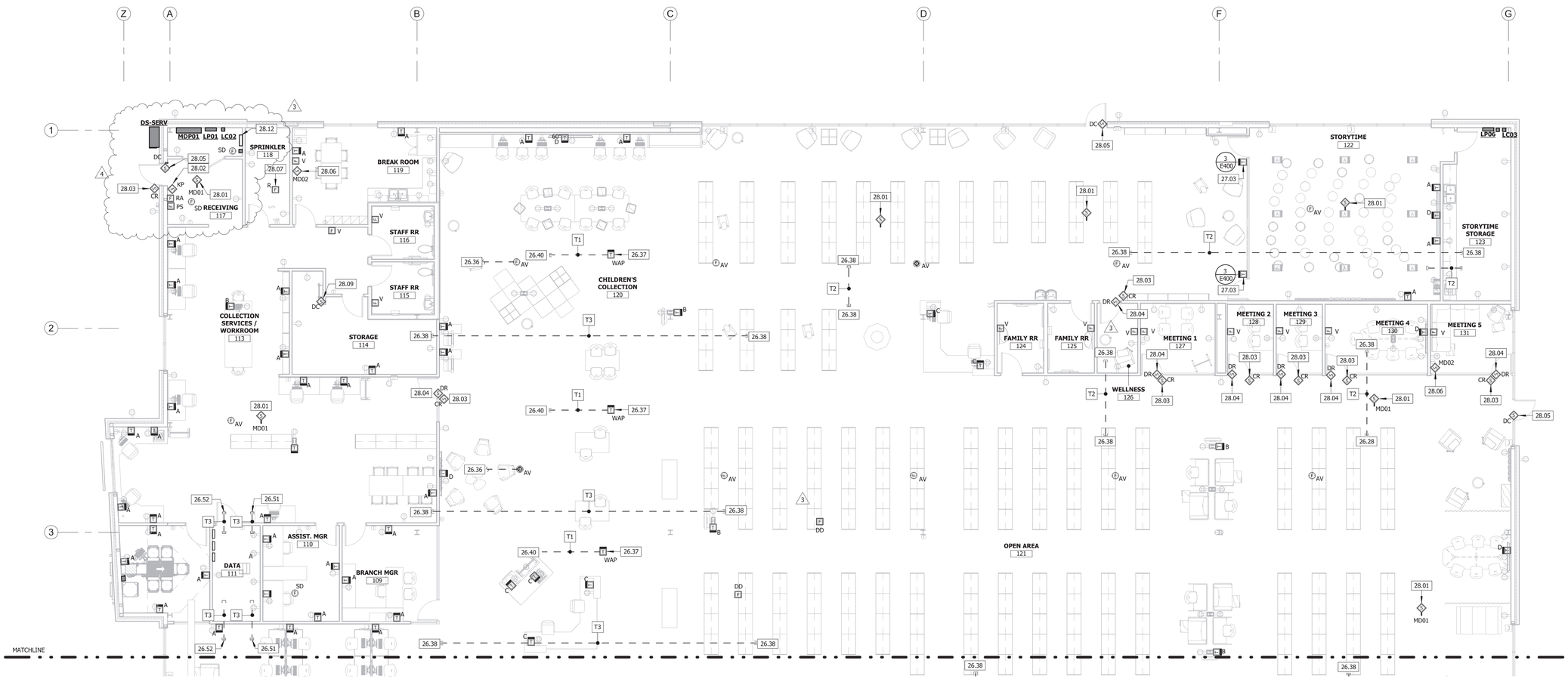
TELECOM CONDUITS

KEY VALUE	SIZE AND QUANTITY
T1	(1) 1" CONDUIT(S) WITH PULL STRING.
T2	(2) 2" CONDUIT(S) WITH PULL STRING.
T3	(3) 2" CONDUIT(S) WITH PULL STRING.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.28	LOW VOLTAGE SWITCH TO CONTROL SHADES ON EAST WALL OF MEETING 131 AND OPEN AREA 121.
26.36	ROUTE 1" CONDUIT IN EXPOSED CEILING AREA TO LAY-IN CEILING FOR FIRE ALARM WIRING.
26.37	PROVIDE DOUBLE GANG JUNCTION BOX FOR CONNECTION TO OWNER PROVIDED WIRELESS ACCESS POINT.
26.38	TERMINATE TELECOMMUNICATIONS CONDUIT ABOVE LAY-IN CEILING. PROVIDE PLASTIC BUSING ON THE END OF THE CONDUIT.
26.40	ROUTE 1" CONDUIT IN EXPOSED AREA TO NEAREST LAY-IN CEILING FOR TELECOMMUNICATIONS WIRING.
26.51	PROVIDE CONDUITS FROM DATA ROOM TO ADJACENT CEILING FOR DATA WIRING ONLY.
26.52	PROVIDE CONDUITS FROM DATA ROOM TO ADJACENT CEILING FOR SECURITY, BUILDING AUTOMATION SYSTEMS, AND NON DATA WIRING.
27.03	ROOM SCHEDULE. REFER TO DETAIL.
28.01	PROVIDE 360 CEILING MOUNTED MOTION DETECTORS.
28.02	PROVIDE KEYPAD FOR ALARM SYSTEM CONTROL.
28.03	PROVIDE ACCESS CONTROL CARD SWIPE. CONFIRM LOCATION WITH OWNER PRIOR TO INSTALLING. COORDINATE WITH STOREFRONT PROVIDER.
28.04	PROVIDE DOOR RELEASE. COORDINATE HARDWARE WITH ARCHITECTURAL DRAWINGS.
28.05	PROVIDE DOOR CONTACTS. COORDINATE LOCATION WITH SECURITY AND DOOR VENDOR.
28.06	PROVIDE WALL MOUNT MOTION DETECTOR.
28.07	PROVIDE FIRE ALARM RELAY OF OPERATION OF PRE-ACTION VALVE.
28.09	PROVIDE DOOR CONTACTS ON ROOF HATCH.
28.12	LOCATION OF ADDRESSABLE FIRE ALARM SYSTEM.



1 SPECIALTY SYSTEMS PLAN - AREA B
1/8" = 1'-0"

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NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019

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Revision No.	Description	Date
3	SI #01	02-17-2020
4	SI #02	03-13-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
E301
SPECIALTY SYSTEMS PLAN - AREA B

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TELECOM CONDUITS

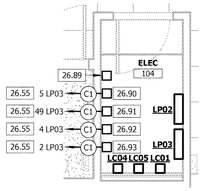
KEY VALUE	SIZE AND QUANTITY
T3	(3) 2" CONDUIT(S) WITH PULL STRING.

CONDUIT AND CONDUCTORS

KEY VALUE	SIZE AND QUANTITY
C1	(2) #10 AND (1) #10 IN 0.75" CONDUIT.
C7	(4) #8 AND (1) #10 GROUND IN 1" CONDUIT.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
26.51	PROVIDE CONDUITS FROM DATA ROOM TO ADJACENT CEILING FOR DATA WIRING ONLY.
26.52	PROVIDE CONDUITS FROM DATA ROOM TO ADJACENT CEILING FOR SECURITY, BUILDING AUTOMATION SYSTEMS, AND NON DATA WIRING.
26.55	CIRCUIT THROUGH LIGHTING CONTACTOR LC04.
26.69	PROVIDE ELECTRICAL CONNECTION AND DATA ROUGH-IN FOR BUILDING AUTOMATION CONTROL PANEL. COORDINATE WITH MECHANICAL CONTRACTOR.
26.70	PROVIDE ELECTRICAL CONNECTION AND DATA ROUGH-IN FOR DAIKIN CONTROLLER. COORDINATE WITH MECHANICAL CONTRACTOR.
26.71	PROVIDE DMP XR150 SECURITY CONTROL PANEL INCLUDE ASSOCIATED 737 MODULES AND ALTRONIX POWER SUPPLY FOR CARD ACCESS CONTROL SYSTEMS.
26.72	DESIGNATE LOCATION FOR AT&T TERMINATION
26.73	DESIGNATED LOCATION FOR ACCESS CONTROL MODULES.
26.74	PROVIDE ELECTRICAL CONNECTION TO AMH MACHINE. CONFIRM REQUIREMENTS WITH EQUIPMENT SUPPLIER.
26.89	PROVIDE COLOR KINETICS I PLAYER 3. CONNECT TO ASSOCIATED COLOR KINETIC DATA ENABLER PRO. INSTALL COLOR KINETICS COLOR GRAZE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
26.90	PROVIDE COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 1. INSTALL COLOR KINETICS COLOR GRAZE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
26.91	PROVIDE COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 2. INSTALL COLOR KINETICS COLOR GRAZE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
26.92	PROVIDE COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 3. INSTALL COLOR KINETICS COLOR GRAZE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
26.93	PROVIDE COLOR KINETICS DATA ENABLER PRO FOR CANOPY ZONE 4. INSTALL COLOR KINETICS COLOR GRAZE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.



SPECIAL NOTE:

CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERATIONAL CANOPY LIGHTING SYSTEM CAPABLE OF CHANGING RGB COLOR. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO CONTROLLER(S), CABLES OF ALL TYPES, TRANSFORMER(S), POWER SUPPLY(S), AND/OR MOUNTING HARDWARE. COORDINATE WITH COLOR KINETICS.

4 ENLARGED LIGHTING PLAN - ELECTRICAL ROOM

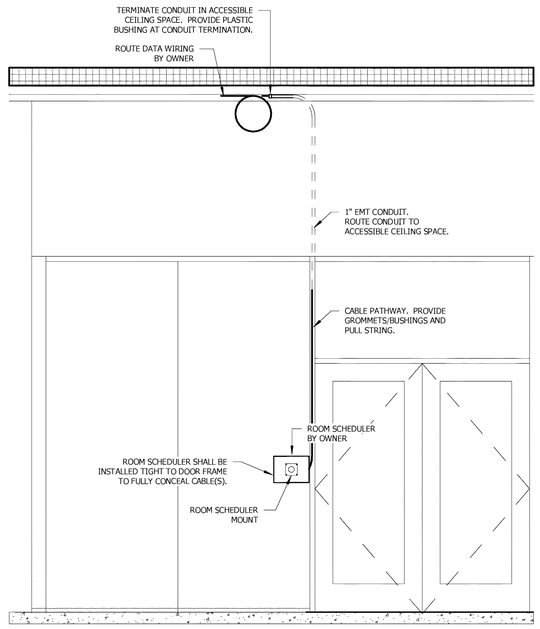
1/4" = 1'-0"

RESPONSIBILITY MATRIX

DEMO POWER/CONDUIT	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
DEMO OF DATA/SECURITY	OWNER FURNISHED / OWNER INSTALLED
GENERAL POWER	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
FIRE ALARM	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
OPEN CABLE MANAGEMENT (J-HOOKS)	OWNER FURNISHED/ OWNER INSTALLED
CABLE TRAY IN OPEN CEILINGS	NOT IN SCOPE
ACCESS CONTROL ROUGH-IN	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
ACCESS CONTROL POWER	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
ACCESS CONTROL EQUIPT.	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
ACCESS CONTROL CABLING	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
A/V EQUIPT. ROUGH-IN	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
A/V EQUIPT. POWER	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
A/V EQUIPT.	OWNER FURNISHED/ OWNER INSTALLED
A/V EQUIPT. CABLING	OWNER FURNISHED/ OWNER INSTALLED
RFID ROUGH-IN	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
RFID POWER	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
RFID EQUIPT.	OWNER FURNISHED/ OWNER INSTALLED
RFID CABLING	OWNER FURNISHED/ OWNER INSTALLED
ROOM SCHEDULERS ROUGH-IN	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
ROOM SCHEDULERS POWER (POE)	OWNER FURNISHED/ OWNER INSTALLED
ROOM SCHEDULERS	OWNER FURNISHED/ OWNER INSTALLED
ROOM SCHEDULERS DATA DROPS	OWNER FURNISHED/ OWNER INSTALLED
ROOM SCHEDULERS CABLING TO DATA DROPS	OWNER FURNISHED/ OWNER INSTALLED
TELE/DATA ROUGH-IN	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
TELE/DATA POWER	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
TELE/DATA EQUIPT.	OWNER FURNISHED/ OWNER INSTALLED
TELE/DATA CABLING	OWNER FURNISHED/ OWNER INSTALLED
TELE/DATA TERMINATIONS	OWNER FURNISHED/ OWNER INSTALLED
WAPS	OWNER FURNISHED/ OWNER INSTALLED
VIDEO SURV. ROUGH-IN	OWNER FURNISHED/ OWNER INSTALLED
VIDEO SURV. POWER (POE)	OWNER FURNISHED/ OWNER INSTALLED
VIDEO SURV. EQUIPT.	OWNER FURNISHED/ OWNER INSTALLED
VIDEO SURV. CABLING	OWNER FURNISHED/ OWNER INSTALLED
SECURITY/INTRUSION	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED

NOTES:

1. A/V EQUIPMENT INCLUDES PROJECTION SCREENS, MOUNTED DISPLAYS, PROJECTORS, SPEAKERS IN COMMUNITY ROOMS, MICROPHONES FOR COMMUNITY ROOMS, AND RELATED AUDIO EQUIPMENT FOR COMMUNITY ROOMS.
2. MOUNTED DISPLAYS AND MOUNTING BY CONTRACTOR.
3. PORTABLE DISPLAYS AND CARTS BY OWNER.
4. PAGING SYSTEM BY OWNER.



NOTES:

1. DIGITAL DISPLAY SHALL BE LG 65" ULTRA HD UHSC SERIES IMMERSIVE SCREEN MODEL 65UH5C-B OR APPROVED EQUAL. PROVIDE REQUIRED ACCESSORIES INCLUDING WALL MOUNT REQUIRED FOR INSTALLATION.

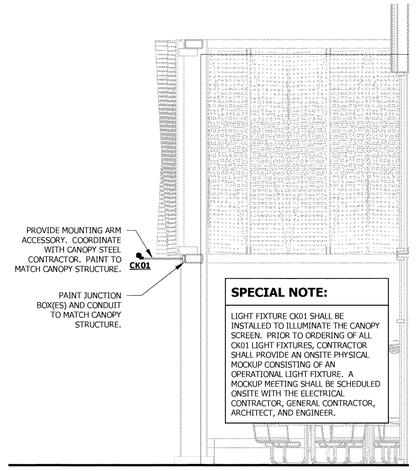
2. ROOM SCHEDULER MOUNT SHALL BE VIDAMOUNT FIXED VESA SLIM WALL MOUNT WITH PERMANENT ADHESIVE KIT FOR GLASS MOUNTING APPLICATIONS.

3. INSTALL OBSCURING FILM TO BACK SIDE OF GLAZING TO CONCEAL BACKSIDE OF ROOM SCHEDULER. OBSCURING FILM DIMENSIONS SHALL CLOSELY MATCH OUTLINE OF ROOM SCHEDULER.

4. DRILL 0.5" HOLES THROUGH DOOR FRAME AS REQUIRED FOR CABLE PATHWAY. INSTALL GROMMETS/BUSHINGS THROUGHOUT PATHWAY TO PREVENT DAMAGE TO CABLES. PROVIDE PULL STRING FOR FUTURE USE.

3 ROOM SCHEDULER/DIGITAL DISPLAY

NOT TO SCALE

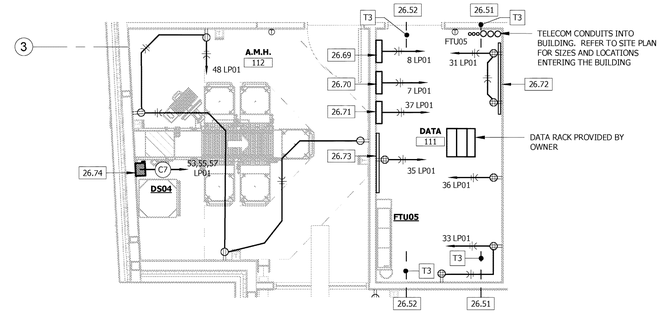


SPECIAL NOTE:

LIGHT FIXTURE CK01 SHALL BE INSTALLED TO ILLUMINATE THE CANOPY SCREEN. PRIOR TO ORDERING OF ALL CK01 LIGHT FIXTURES, CONTRACTOR SHALL PROVIDE AN ONSITE PHYSICAL MOCKUP CONSISTING OF AN OPERATIONAL LIGHT FIXTURE. A MOCKUP MEETING SHALL BE SCHEDULED ONSITE WITH THE ELECTRICAL CONTRACTOR, GENERAL CONTRACTOR, ARCHITECT, AND ENGINEER.

2 CANOPY LIGHTING SECTION

1/4" = 1'-0"



1 ENLARGED AMH AND DATA ROOM

1/4" = 1'-0"

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Revision No.	Description	Date
2	Addendum #02	01-20-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.

E400

ELECTRICAL DETAILS

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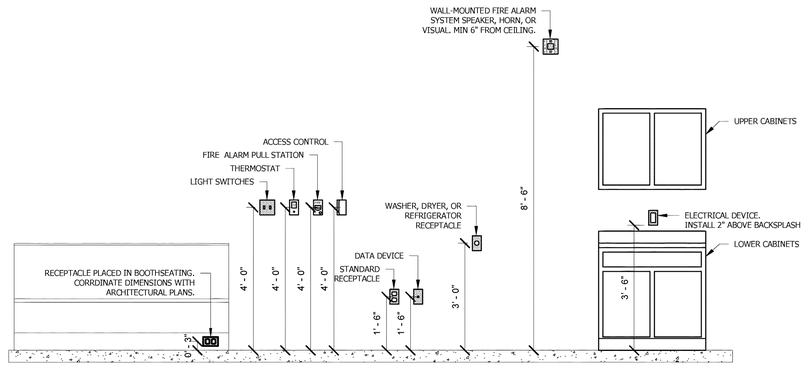
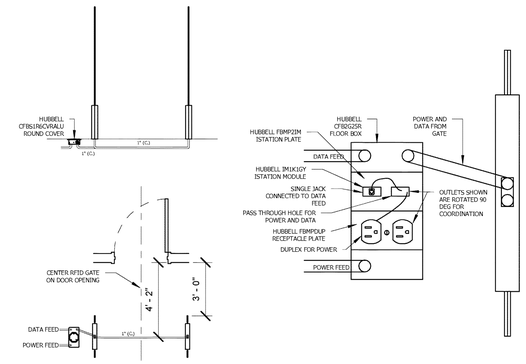


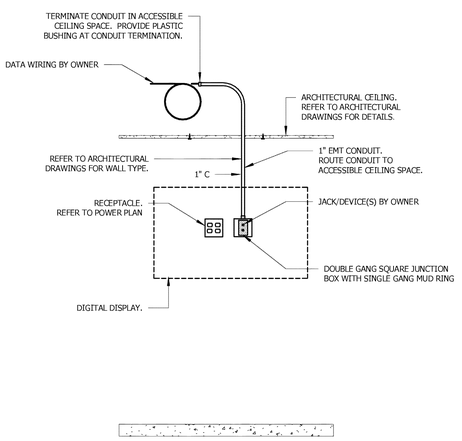
3 TYPICAL ELECTRICAL DEVICE MOUNTING HEIGHTS

NOT TO SCALE



2 RFID GATE FLOOR BOX

NOT TO SCALE



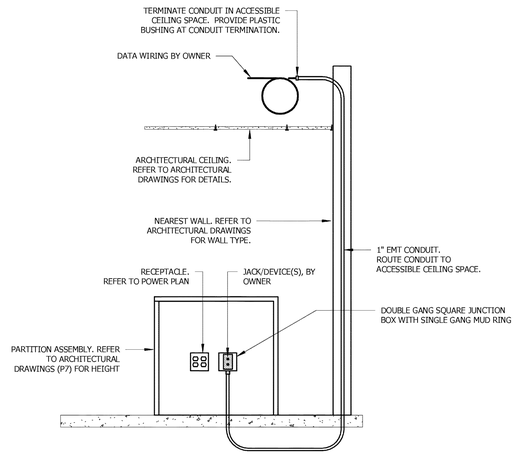
NOTES:

1. CONDUIT SHALL BE TERMINATED AT NEAREST ACCESSIBLE CEILING SPACE OR MECHANICAL ROOM/DATA CLOSET IF CEILING DIRECTLY ABOVE TELECOMMUNICATIONS OUTLET IS NOT ACCESSIBLE.

2. CEILING SPACE SHALL BE DEEMED ACCESSIBLE IF ARCHITECTURAL CEILING IS REMOVABLE ACOUSTIC TILE OR ATTIC SPACE IS ACCESSIBLE FOR MAINTENANCE PURPOSES.

7 TELECOM "D" OUTLET

NOT TO SCALE



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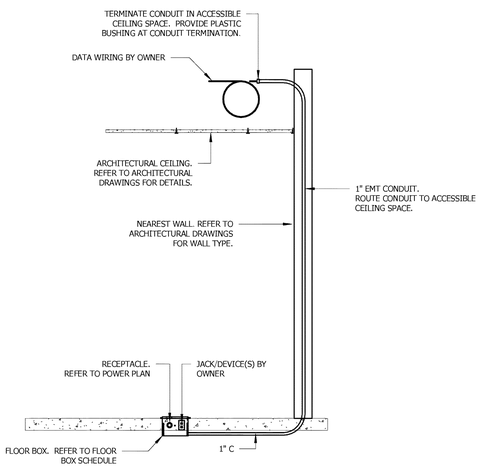
6 TELECOM "C" OUTLET

NOT TO SCALE



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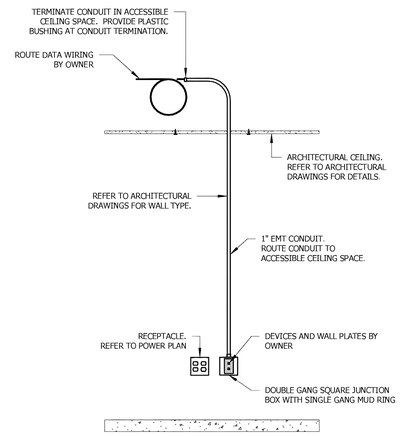
4 TELECOM "B" OUTLET

NOT TO SCALE



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1 TELECOM "A" OUTLET

NOT TO SCALE

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.

E401

ELECTRICAL DETAILS

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CONTROL SEQUENCE

PROVIDE DIMMING CONTROLS FOR EACH INDIVISUAL ZONES 01, 02, 03, 04, AND 05. DIMMING SHALL BE CONTROLLED FROM MASTER SWITCH CONTROLLED IN COLLECTION SERVICES / WORKROOM 113.

CABLING

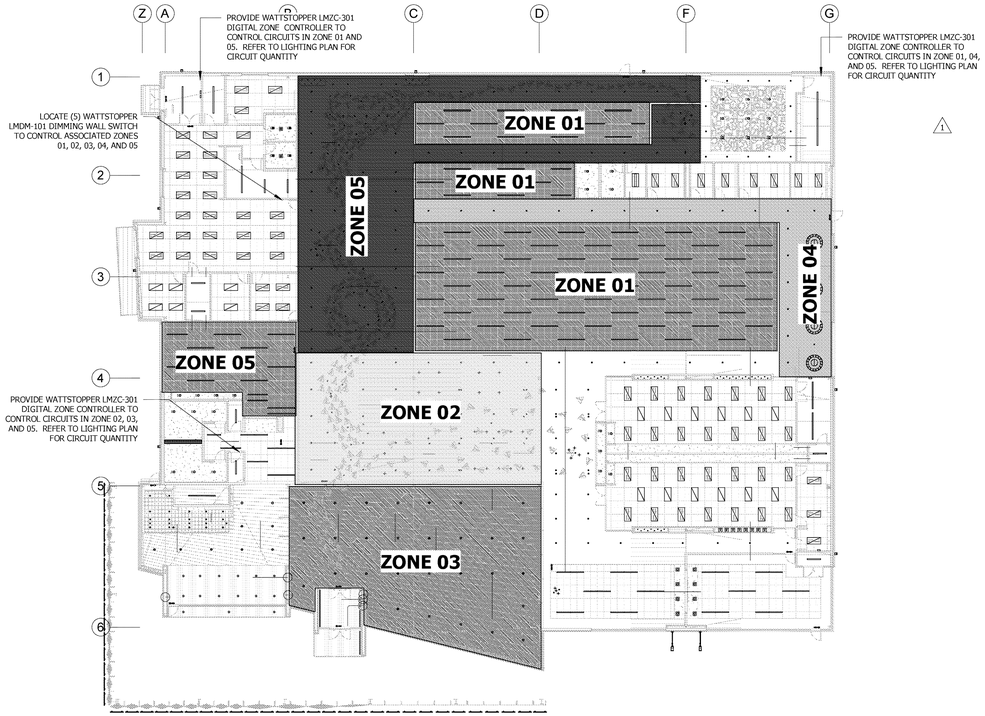
PROVIDE ALL REQUIRED CABLING BETWEEN SWITCHES, CIRCUITS, AND CONTROLLERS. CABLING SHALL BE CATEGORY 5E/6 CABLE AND PLENUM RATED.
MANUFACTURER'S REP VERIFY CONTROL LENGTHS AND PROVIDE POWER EXTENDERS AS REQUIRED.

GENERAL

PROVIDE COMPLETE DIMMING CONTROL SYSTEM AS INDICATED. THE ELECTRICAL CONTRACTOR AND/OR APPLICABLE VENDORS SHALL PROVIDE ALL MATERIALS, EQUIPMENT, FABRICATION, INSTALLATION, GATEWAYS, CABLING, ETC. FOR DIMMING CONTROL SYSTEM.

CONTRACTOR SHALL HAVE OPTION OF PROVIDED WATTSTOPPER LMCP RELAY PANEL INTERIORS TO CONTROL LIGHTING CIRCUITS IN LIEU OF LIGHTING CONTACTORS.

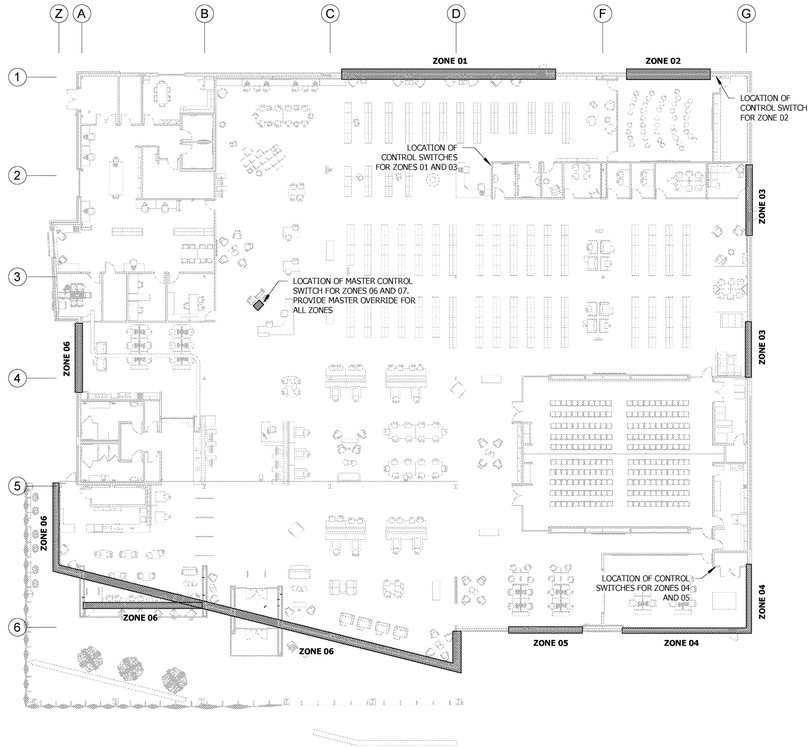
WIRE LIGHTING CIRCUITS THROUGH WATTSTOPPER LMRC-21X 1-10-VOLT DIMMIN ROOM CONTROLLERS.



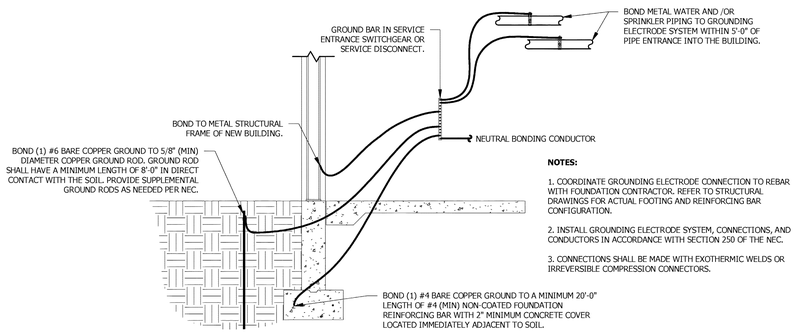
4 LIGHTING CONTROL DETAIL
NOT TO SCALE

26 09 40 - WINDOW SHADE CONTROL

1. PROVIDE POWER CONNECTION AND CONTROL WIRING FOR OPERATION OF MOTORIZED SHADES. COORDINATE POWER REQUIREMENTS WITH MECHOSYSTEMS PROVIDER.



3 MOTORIZED SHADE CONTROL
NOT TO SCALE



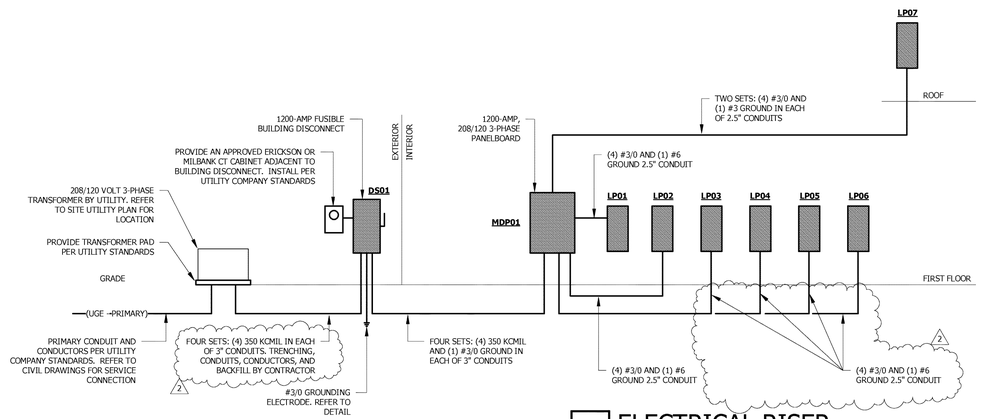
NOTES:

1. COORDINATE GROUNDING ELECTRODE CONNECTION TO REBAR WITH FOUNDATION CONTRACTOR. REFER TO STRUCTURAL DRAWINGS FOR ACTUAL FOOTING AND REINFORCING BAR CONFIGURATION.

2. INSTALL GROUNDING ELECTRODE SYSTEM, CONNECTIONS, AND CONDUCTORS IN ACCORDANCE WITH SECTION 250 OF THE NEC.

3. CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION CONNECTORS.

2 GROUNDING ELECTRODE
NOT TO SCALE



GENERAL NOTES:

1. ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.

2. ALL ABOVE GRADE EXTERIOR CONDUIT SHALL BE IMC.

3. ALL CIRCUITS/FEEDERS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THEM EXCEPT AS ALLOWED OTHERWISE BY THE NEC.

FAULT CURRENT NOTE:

1. ASSUMPTIONS:
   A. TRANSFOMER SIZE = 300 KVA, 120/208-VOLT, THREE PHASE.
   B. IMPEDENCE = 3.7
   C. LENTH OF SECONDARY FROM TRANSFORMER TO MDP01 = 30 FT

2. CONTRACTOR SHALL CONTACT ENGINEER IF MODIFICATIONS ARE MADE.

3. MDP01: IF NO MODIFICATIONS ARE MADE, PROVIDE A PERMANENT PLACARD AT THE SERVICE DISCONNECT OR MAIN CIRCUIT BREAKER. PLACARD SHALL READ" " MAXIMUM AVAILABLE FAULT CURRENT: 21,086 AMPS, CALCULATED ON DECEMBER 20TH, 2019

1 ELECTRICAL RISER
NOT TO SCALE

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Company Name
Missouri State Certificate of Authority #

SPECIAL NOTICES

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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Engineer of Record
STATE OF MISSOURI
JACOB ADAM NELSON
NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019
JACOB A NELSON, PE MO PE-2009018758

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True Engineering Group LLC
Missouri State Certificate of Authority #E-2016000752

Revision No.	Description	Date
1	Addendum #01	01-13-2020
2	Addendum #02	01-20-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
E402
ELECTRICAL DETAILS

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Branch Panel: LP01

Location: Room 117
Supply From: MDP01
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 200 A
Model: NQ

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS

CKT	CIRCUIT DESCRIPTION	TRIP	CB ACC	POLES	A		B		C		POLES	CB ACC	TRIP	CIRCUIT DESCRIPTION	CKT
1	Lighting Room 120	20 A		1	549 VA	532 VA					1		20 A	Lighting Room 120	2
3	Lighting Room 113	20 A		1			1625 VA	1345 VA			1		20 A	Lighting Room...	4
5	Fire Alarm Control Panel RM 117	20 A		1					1000 VA	540 VA	1		20 A	Receptacle Room 117	6
7	Security Panel	20 A		1	500 VA	500 VA					1		20 A	BAS Control Panel	8
9	Receptacle Room 118	20 A		1			1000 VA	1000 VA			1		20 A	Receptacle Room 118	10
11	Power to Pump Room 118	20 A		1					60 VA	500 VA	1		20 A	WH1 Room 118	12
13	Receptacle Room 119	20 A		1	500 VA	900 VA					1		20 A	Receptacle Room 119	14
15	Receptacle Room 119	20 A		1			360 VA	500 VA			1		20 A	Receptacle Room 119	16
17	Receptacle Room 116, 115, 120	20 A		1					540 VA	500 VA	1		20 A	Receptacle Room 119	18
19	Receptacle Room 113	20 A		1	540 VA	680 VA					1		20 A	Receptacle Room 119	20
21	Receptacle Room 113	20 A		1			360 VA	360 VA			1		20 A	Receptacle Room 113	22
23	Receptacle Room 113	20 A		1					540 VA	360 VA	1		20 A	Receptacle Exterior	24
25	Receptacle Room 113	20 A		1	360 VA	360 VA					1		20 A	Receptacle Room 113	26
27	Receptacle Room 113	20 A		1			1080 VA	360 VA			1		20 A	Receptacle Room 120	28
29	Receptacle Room 110	20 A		1					1260 VA	360 VA	1		20 A	Receptacle Room 113	30
31	Receptacle Room 111	20 A		1	720 VA	540 VA					1		20 A	Floor Box Receptacle Room 120	32
33	Receptacle Room 111	20 A		1			720 VA	720 VA			1		20 A	Receptacle Room 113	34
35	Receptacle Room 111	20 A		1					360 VA	360 VA	1		20 A	Receptacle Room 111	36
37	Receptacle Room 112	20 A		1	500 VA	900 VA					1		20 A	Receptacle Room 109	38
39	TV Room 120	20 A		1			180 VA	1200 VA			1		20 A	Junction Box Room 108	40
41	Floor Box Receptacle Room 120	20 A		1					720 VA	1200 VA	1		20 A	Junction Box Room 108	42
43	TV Room 120	20 A		1	180 VA	540 VA					1		20 A	Receptacle Room 120	44
45	FTU 22,06,04	20 A	HACR	2			63 VA	540 VA			1		20 A	Receptacle Room 120	46
47	--	--		--					63 VA	720 VA	1		20 A	Receptacle Room 112	48
49	FTU 08,09,10,11,12	20 A	HACR	2	426 VA	707 VA					2	HACR	20 A	FTU 16, 23	50
51	--	--		--			426 VA	707 VA			--		--	--	52
53	DS04 Room 112	20 A		3					2333 VA	738 VA	2	HACR	20 A	FTU 07,31 AND HRB01	54
55	--	--		--	2333 VA	738 VA					--		--	--	56
57	--	--		--			2333 VA	0 VA			1		20 A	Spare	58
59	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	60
61	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	62
63	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	64
65	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	66
67	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	68
69	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	70
71	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	72
			Total Load:		13006 VA		14879 VA		12334 VA						
			Total Amps:		109 A		125 A		103 A						

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3452 VA	100.00%	3452 VA		
Lighting	4051 VA	100.00%	4051 VA	**Total Conn. Load:**	32219 VA
Other	916 VA	100.00%	916 VA	**Total Est. Demand:**	27299 VA
Power	3960 VA	100.00%	3960 VA	**Total Conn.:**	89 A
Receptacle	19840 VA	75.20%	14920 VA	**Total Est. Demand:**	76 A

Notes:

Distribution Panel: MDP01

Location: 117 Receiving
Supply From: DS01
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 1200 A
Model: I-Line

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS, 5. PROVIDE 42" SPARE FUTURE CIRCUIT BREAKER SPACE, 6. PROVIDE REMOTE SURGE SUPPRESSION DEVICE. REFER TO SPECIFICATIONS.

SPACE	CIRCUIT DESCRIPTION	TRIP	ACCESSORIES	POLES	A	B	C	NOTES
1	LP01	200 A		3	13006 VA	14879 VA	12334 VA	
2	LP02	200 A		3	8306 VA	5262 VA	6685 VA	
3	LP03	200 A		3	13941 VA	15212 VA	8781 VA	
4	LP04	200 A		3	9380 VA	8424 VA	6719 VA	
5	LP05	200 A		3	5994 VA	4800 VA	4410 VA	
6	LP06	200 A		3	7996 VA	8888 VA	6482 VA	
7	LP07	600 A		3	41828 VA	41288 VA	39229 VA	
8	DOA01	50 A		3	5133 VA	5133 VA	5133 VA	
9	DOA02	150 A		3	12800 VA	12800 VA	12800 VA	
10	HVAC	20 A		3	8067 VA	8067 VA	8067 VA	
11								
12								
13								
14								
15								
			Total Load:		126451 VA	124753 VA	110639 VA	
			Total Amps:		1072 A	1058 A	922 A	

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. EXISITNG = EXISITNG TO REMAIN

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	220896 VA	100.00%	220896 VA		
Lighting	30829 VA	100.00%	30829 VA	**Total Conn. Load:**	353843 VA
Other	1728 VA	100.00%	1728 VA	**Total Est. Demand:**	316103 VA
Power	14910 VA	100.00%	14910 VA	**Total Conn.:**	982 A
Receptacle	85480 VA	55.85%	47740 VA	**Total Est. Demand:**	877 A

Notes:

LIGHTING CONTACTOR SCHEDULE

NOTES:	
1.	POLES SHALL BE ISOLATED PERMITTING CIRCUITS OF DIFFERING VOLTAGES TO BE WIRED THROUGH CONTACTOR.
2.	COORDINATE COIL VOLTAGE WITH BUILDING AUTOMATION SYSTEM REQUIREMENTS.
3.	HAND/OFF/AUTO SELECTOR SWITCH.
4.	PILOT LIGHT, ILLUMINATED WHEN LOAD IS ENERGIZED.
5.	PROVIDE CONTROL COIL POWERED BY ASSOCIATED LIGHTING CIRCUIT.

TYPE MARK	MANUFACTURER	EQUIPMENT SERVED	VOLTAGE	TYPE	AMP	POLE	ENCLOSURE NEMA TYPE	CONTROLLED BY	NOTES	EQUIVALENTS
LC01	SQUARE D	EXTERIOR RECEPTACLES	120	NOEH	30	6	NEMA 1	BAS	1,2,3,4,5	GE
LC02	SQUARE D	EXTERIOR RECEPTACLES	120	NOEH	30	6	NEMA 1	BAS	1,2,3,4,5	GE
LC03	SQUARE D	EXTERIOR RECEPTACLES	208/120	NOEH	30	12	NEMA 1	BAS	1,2,3,4,5	GE
LC04	SQUARE D	EXTERIOR LIGHTS	120	NOEH	30	2|12	NEMA 1	BAS	1,2,3,4,5	GE
LC05	SQUARE D	INTERIOR LIGHTS	120	NOEH	30	6	NEMA 1	BAS	1,2,3,4,5	GE
LC06	SQUARE D	INTERIOR LIGHTS	120	NOEH	30	6	NEMA 1	BAS	1,2,3,4,5	GE
LC07	SQUARE D	INTERIOR LIGHTS	120	NOEH	30	6	NEMA 1	BAS	1,2,3,4,5	GE

OCCUPANCY SENSOR SCHEDULE

NOTES:	
1.	PROVIDE POWER PACK(S) AS REQUIRED. POWER PACK SHALL BE SAME MANUACTURER AS OCCUPANCY SENSOR.
2.	WIRE OCCUPANCY SENSOR(S) IN SERIES WITH LOCAL LIGHT SWITCHING WHEN APPLICABLE.
3.	WALL SWITCH SHALL BE CAPABLE OF MANUAL ON/OFF CONTROL.
4.	WIRE OCCUPANCY SENSORS IN PARALLEL WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A SINGLE ZONE.
5.	PROVIDE ISOLATED RELAY TO CONNECT TO BUILDING AUTOMATION SYSTEM. COORDINATE WITH BAS CONTRACTOR.

TYPE MARK	LOAD		SENSOR				NOTES	EQUIVALENTS
	EQUIPMENT SERVED	VOLTAGE	MANUFACTURER	MODEL NUMBER	VOLTAGE	TYPE	TIME DELAY	MOUNTING		
OS01	SMALL AREA LIGHTING	120 V	WATTSTOPPER	DW-100	120 V	DUAL	15 MIN	WALL	3	HUBBELL
OS02	MEDIUM-LARGE AREA LIGHTING	120 V	WATTSTOPPER	WT-1100	24 VDC	ULTRASONIC	15 MIN	CEILING	1,2,4,5	HUBBELL
OS03	LARGE AREA LIGHTING	120 V	WATTSTOPPER	DT-300	24 VDC	DUAL	15 MIN	CEILING	1,2,4,5	HUBBELL
OS04	MEDIUM-SMALL AREA LIGHTING	120 V	WATTSTOPPER	DT-200	24 VDC	DUAL	15 MIN	CEILING	1,2,4,5	HUBBELL
OS05	CORRIDOR AREA LIGHTING	120 V	WATTSTOPPER	W-2000H	24 VDC	ULTRASONIC	15 MIN	CEILING	1,2,4,5	HUBBELL

DISCONNECT SCHEDULE

NOT...	
1.	GROUND LUG KIT.
2.	SOLID NEUTRAL.
3.	NEUTRAL BONDING JUMPER.
4.	SERVICE ENTRANCE RATED.
5.	DISCONNECT SHALL BE LOCKABLE IN THE OPEN POSITION.

TYPE MARK	EQUIPMENT SERVED	VOLTAGE	DUTY	AMPS	POLES	OVERCURRENT (OC) PROTECTION					ENCLOSURE NEMA TYPE	NOTES
						OC TYPE	OC MANUFACTURER	OC MODEL NUMBER	OC AMPS	OC KAIC		
DS01a	HP01	208	GD	60	3	-	-	-	-	-	NEMA 3R	1,5
DS01b	HP01	208	GD	60	3	-	-	-	-	-	NEMA 3R	1,5
DS01c	HP01	208	GD	60	3	-	-	-	-	-	NEMA 3R	1,5
DS02a	HP02	208	GD	100	3	-	-	-	-	-	NEMA 3R	1,5
DS02b	HP02	208	GD	100	3	-	-	-	-	-	NEMA 3R	1,5
DS03a	HP03	208	GD	60	3	-	-	-	-	-	NEMA 3R	1,5
DS03b	HP03	208	GD	60	3	-	-	-	-	-	NEMA 3R	1,5
DS04	AMH	208	GD	30	3	-	-	-	-	-	NEMA 3R	1,5
DS-SERV	BUILDING SERVICE	208	GD	1200	3	FUSE	BUSSMAN	KRP	1200	300	NEMA 3R	1,2,3,4,5

LIGHTING FIXTURE SCHEDULE

NOTES:	
1.	PROVIDE CLIPS OR MEAN OF SUPPORT TO COMPLY WITH NEC ARTICLE 410-16.
2.	PROVIDE EMERGENCY BALLAST WITH INTERNAL TEST SWITCH FOR 90 MINUTES OF EMERGENCY OPERATION.
3.	COORDINATE INSTALLATION HEIGHT WITH ARCHITECT.
4.	FIXTURE SHALL BE RATED FOR OUTDOOR USE.
5.	INSTALL INVERTER FOR EXTERIOR EMERGENCY LIGHTING. REFER TO PLANS FOR LOCATION.
6.	HANG FROM STRUCTURE WITH AIR CRAFT CABLE.
7.	PROVIDE THE REQUIRED AMOUNT OF REMOTE DRIVERS TO OPERATE FIXTURES. INSTALL DRIVERS ABOVE CEILING.
8.	FIXTURE SHALL BE IC RATED FOR DIRECT CONTACT WITH INSULATION.
9.	COORDINATE INSTALLATION WITH ARCHITECTURAL MILLWORK ELEVATIONS.
10.	PROVIDE MOUNTING ARM, OFFSET LIGHT FIXTURE 2' USING MOUNTING ARM. PROVIDE MOCK UP PRIOR TO INSTALLATION.
1 11.	PROVIDE 12-WALL LED LIGHT BULB WITH 3500K TEMPERATURE. CONFIRM LED LAMP BASE TYPE WITH MANUFACTURER.
12.	PROVIDE REMOTE MOUNTED CONTROLLER IN ELECTRICAL ROOM 104 TO OPERATE COLOR CHANGING FIXTURES.

TYPE MARK	MANUFACTURER	MODEL NUMBER	DRIVER	FINISH	VOLTAGE	LAMP TYPE	COLOR TEMP	TOTAL WATTAGE	NOTES	EQUIVALENTS
C01	WILLIAMS	4DR-TL-L20/835-DIM-UNV-OW-OF-CS	DIM	BY ARCH	UNV	LED	3500	20	-	SUBMIT
C01E	WILLIAMS	4DR-TL-L20/835-DIM-UNV-OW-OF-CS-EM/10W/ITS	DIM	BY ARCH	UNV	LED	3500	20	2	SUBMIT
C02	WILLIAMS	4DR-TL-L15/835-DIM-UNV-OW-OF-CS	DIM	BY ARCH	UNV	LED	3500	14	-	SUBMIT
C02E	WILLIAMS	4DR-TL-L15/835-DIM-UNV-OW-OF-CS-EM/10W/ITS	DIM	BY ARCH	UNV	LED	3500	14	2	SUBMIT
1 CC01	CDS LIGHTING	GATES-P-BLANK-USV	DIM	BY ARCH	UNV	LED	3500	12	3,11 1	SUBMIT
CK01	COLOR KINETICS	910503704699	RGBW	BY ARCH	UNV	LED	4000	74	4,10,12	SUBMIT
CP01	ESSE-CI	EC-HCEVO-ST-CG-WF-PC-(E)-MN-35-D2	DIM	BY ARCH	120	LED	3500	9	3	SUBMIT
CP01a	ESSE-CI	EC-HCEVO-ST-CG-WF-S-(E)-MN-35-D2	DIM	BLACK	120	LED	3500	9	3	SUBMIT
CP01aE	ESSE-CI	EC-HCEVO-ST-CG-WF-S-(E)-MN-35-D2	DIM	BLACK	120	LED	3500	9	3	SUBMIT
CP02	ESSE-CI	EC-HCEVO-ST-CG-WF-PC-(E)-SM-35-D2	DIM	BY ARCH	120	LED	3500	18	3	SUBMIT
CP02E	ESSE-CI	EC-HCEVO-ST-CG-WF-PC-(E)-SM-35-D2	DIM	BY ARCH	120	LED	3500	18	3	SUBMIT
CP04	ESSE-CI	EC-HCEVO-HP-CG-WF-S-(E)-LG-35-D2	DIM	BY ARCH	120	LED	3500	52	3	SUBMIT
CP04E	ESSE-CI	EC-HCEVO-HP-CG-WF-S-(E)-LG-35-D2	DIM	BY ARCH	120	LED	3500	52	3	SUBMIT
CV01	WILLIAMS	PX-G-4-11"-0"-L7/835-S-LCAP-RCAP-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	77	-	SUBMIT
L01	WILLIAMS	MX4RTR-4'00-L12/835-F-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	44	1	SUBMIT
L02	WILLIAMS	MX4RTR-6'00-L12/835-F-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	66	1	SUBMIT
L02E	WILLIAMS	MX4RTR-6'00-L12/835-F-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	66	1	SUBMIT
L03	WILLIAMS	MX4RTR-8'00-L12/835-F-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	88	1	SUBMIT
L03E	WILLIAMS	MX4RTR-8'00-L12/835-F-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	88	1,2	SUBMIT
2 ML01	WILLIAMS	MX2RTR-TR-11'00-L8/840-F-EM/10WRM/DIM/UNV	DIM	BY ARCH	UNV	LED	4000	74	-	SUBMIT
ML02	WILLIAMS	MX2RTR-TR-7'00-L8/840-F-WET/CC-DIM-UNV	DIM	BY ARCH	UNV	LED	4000	47	2,4	SUBMIT
NV01	TOTA	SIZE LOADSTED FOR FIXTURE CONTECT	-	STANDARD	UNV	LED	-	-	2	SUBMIT
P01	LUXX BOX	LX-VE-L- -35-DI-UNV-RD	REMOTE	BY ARCH	UNV	LED	3500	60	3	SUBMIT
PK01	MP LIGHTING	L52-2-W35S-W-NA-D	DIM	BY ARCH	120	LED	3500	2	7,9	SUBMIT
SP01	USAI	BLRDS-16C3-35KH-90-S_-CC-UNV	INTEGRAL	BY ARCH	UNV	LED	3500	16	-	SUBMIT
SP01E	USAI	BLRDS-16C3-35KH-90-S_-CC-UNV	INTEGRAL	BY ARCH	UNV	LED	3500	16	2	SUBMIT
SP02E	USAI	BLRDS-16C3-35KH-90-S_-RB-UNV	INTEGRAL	BY ARCH	UNV	LED	3500	16	2	SUBMIT
ST01	WILLIAMS	7SS-8-L100/835-VBY-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	82	6	SUBMIT
ST02	WILLIAMS	7SS-4-L65/835-AC/D-S68.538B-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	52	6	SUBMIT
ST03	WILLIAMS	7SS-8-L60/835-AC/D-S68.538B-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	44	6	SUBMIT
ST03E	WILLIAMS	7SS-8-L60/835-AC/D-S68.538B-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	44	2,6	SUBMIT
T01	WILLIAMS	AT3-24-L70/835-D-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	70	1	SUBMIT
T01E	WILLIAMS	AT3-24-L70/835-D-EM/10W-DIM-UNV	DIM	BY ARCH	UNV	LED	3500	70	1,2	SUBMIT
X01	WILLIAMS	EXIT/EL/RECESSED-(SF/DF-REFER TO PLANS)-G-CP-WHT-EM-D	-	BY ARCH	UNV	LED	-	15	2	SUBMIT

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Revision No.	Description	Date
1	Addendum #01	01-13-2020
2	Addendum #02	01-20-2020

Project No.	Date	Drawn
WP10	12/23/2019	RA

Drawing No.
E500
ELECTRICAL SCHEDULES

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Branch Panel: LP07

Location: Roof
Supply From: MDP01
Mounting: Surface
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 400 A
Model: NQ

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS

CKT	CIRCUIT DESCRIPTION	TRIP	CB ACC	POLES	A		B		C		POLES	CB ACC	TRIP	CIRCUIT DESCRIPTION	CKT
1	DS01a	50 A	HACR	3	5163 VA	5163 VA					3	HACR	50 A	DS01b	2
3	--	--		--			5163 VA	5163 VA			--		--	--	4
5	--	--		--					5163 VA	5163 VA	--		--	--	6
7	DS01c	50 A	HACR	3	5163 VA	4575 VA					3	HACR	20 A	DS03b	8
9	--	--		--			5163 VA	4575 VA			--		--	--	10
11	--	--		--					5163 VA	4575 VA	--		--	--	12
13	DS03a	20 A	HACR	3	5164 VA	7000 VA					3	HACR	45 A	DS02b	14
15	--	--		--			5164 VA	7000 VA			--		--	--	16
17	--	--		--					5164 VA	7000 VA	--		--	--	18
19	DS02a	45 A	HACR	3	7000 VA	540 VA					1		20 A	Exterior Roof Receptacle	20
21	--	--		--			7000 VA	0 VA			1		20 A	Spare	22
23	--	--		--					7000 VA	0 VA	1		20 A	Spare	24
25	HP04	20 A		2	2059 VA	0 VA					1		20 A	Spare	26
27	--	--		--			2059 VA	0 VA			1		20 A	Spare	28
29	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	30
31	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	32
33	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	34
35	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	36
37	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	38
39	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	40
41	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	42
		Total Load:			41828 VA		41288 VA		39229 VA						
		Total Amps:			351 A		347 A		327 A						

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	121805 VA	100.00%	121805 VA		
Receptacle	540 VA	100.00%	540 VA	**Total Conn. Load:**	122345 VA
				Total Est. Demand:	122345 VA
				Total Conn.:	340 A
				Total Est. Demand:	340 A

Notes:

Branch Panel: LP05

Location: Room 135
Supply From: MDP01
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 200 A
Model: NQ

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS

CKT	CIRCUIT DESCRIPTION	TRIP	CB ACC	POLES	A		B		C		POLES	CB ACC	TRIP	CIRCUIT DESCRIPTION	CKT
1	Lighting Room 138, 138, 140	20 A		1	871 VA	917 VA					1		20 A	Lighting Room 137, 135, 136,...	2
3	Receptacle Room 135	20 A		1			540 VA	180 VA			1		20 A	Receptacle Room 135	4
5	Receptacle Room 135	20 A		1					540 VA	180 VA	1		20 A	Receptacle Room 135	6
7	Receptacle Room 135	20 A		1	180 VA	360 VA					1		20 A	Receptacle Room 135	8
9	Receptacle Room 138, 137, 138	20 A		1			900 VA	540 VA			1		20 A	Receptacle Room 136, 137	10
11	Receptacle Room 138	20 A		1					360 VA	1050 VA	1		20 A	Motorized Shades Power Room...	12
13	Receptacle Room 138	20 A		1	360 VA	360 VA					1		20 A	Receptacle Room 138	14
15	Receptacle Room 138	20 A		1			360 VA	360 VA			1		20 A	Receptacle Room 138	16
17	Receptacle Room 138	20 A		1					360 VA	360 VA	1		20 A	Receptacle Room 137	18
19	Receptacle Room 137	20 A		1	360 VA	360 VA					1		20 A	Receptacle Room 137	20
21	Receptacle Room 137	20 A		1			360 VA	447 VA			2	HACR	20 A	HRB06, HRB07, FTU29	22
23	FTU25b	20 A	HACR	2					1113 VA	447 VA	--		--	--	24
25	--	--		--	1113 VA	1113 VA					2	HACR	20 A	FTU28	26
27	Spare	20 A		1			0 VA	1113 VA			--		--	--	28
29	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	30
31	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	32
33	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	34
35	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	36
37	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	38
39	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	40
41	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	42
		Total Load:			5994 VA		4800 VA		4410 VA						
		Total Amps:			50 A		41 A		37 A						

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5180 VA	100.00%	5180 VA		
Lighting	1788 VA	100.00%	1788 VA	**Total Conn. Load:**	15204 VA
Other	166 VA	100.00%	166 VA	**Total Est. Demand:**	15204 VA
Power	1050 VA	100.00%	1050 VA	**Total Conn.:**	42 A
Receptacle	7020 VA	100.00%	7020 VA	**Total Est. Demand:**	42 A

Notes:

Branch Panel: LP03

Location: Room 104
Supply From: MDP01
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 200 A
Model: NQ

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS

CKT	CIRCUIT DESCRIPTION	TRIP	CB ACC	POLES	A		B		C		POLES	CB ACC	TRIP	CIRCUIT DESCRIPTION	CKT
1	Exterior Front Lighting	20 A		1	370 VA	1110 VA					1		20 A	Canopy Lighting	2
3	Exterior Back Lighting	20 A		1			216 VA	962 VA			1		20 A	Canopy Lighting	4
5	Canopy Lighting	20 A		1					1110 VA	540 VA	2		20 A	Parking Lot Lighting	6
7	Parking Lot Lighting	20 A		2	630 VA	540 VA					--		--	--	8
9	--	--		--			630 VA	810 VA			2		20 A	Parking Lot Lighting	10
11	Front Exterior Receptacle	20 A		1					360 VA	810 VA	--		--	--	12
13	Espresso Machine Outlet	30 A		2	5000 VA	1061 VA					1		20 A	Lighting Room 141, 108	14
15	--	--		--			5000 VA	797 VA			1		20 A	Lighting Room 107, 106, 105,...	16
17	Blender Receptacle Room 102	20 A		1					180 VA	360 VA	1		20 A	Side Exterior Receptacle	18
19	Receptacle Room 102, 103	20 A		1	540 VA	180 VA					1		20 A	RFID Door Reader Power Roo...	20
21	Dishwasher Receptacle Room...	20 A		1			180 VA	360 VA			1		20 A	Receptacle Room 102	22
23	Drinking Fountain	20 A	GFCI	1					180 VA	180 VA	1		20 A	Blender Receptacle Room 102	24
25	Automatic Doors Power Room...	20 A		1	0 VA	180 VA					1		20 A	Ice Maker Receptacle Room 102	26
27	Hand Dryer Power Room 106	20 A		1			1000 VA	180 VA			1		20 A	Register Receptacle Room 102	28
29	Hand Dryer Power Room 107	20 A		1					1000 VA	180 VA	1		20 A	Ice Maker Receptacle Room 102	30
31	Motorized Shades Power Room...	20 A		1	1200 VA	540 VA					1		20 A	Receptacle Room 102	32
33	Motorized Shades Power Room...	20 A		1			1050 VA	720 VA			1		20 A	Receptacle Room 105, 104, 141	34
35	Motorized Shades Power Room...	20 A		1					300 VA	180 VA	1		20 A	Floor Box Receptacle Room 102	36
37	Coiling Security Door Power...	20 A		1	0 VA	360 VA					1		20 A	Receptacle Room 106, 107	38
39	FTU01b, FTU01a, HRB03	20 A	HACR	2			1467 VA	0 VA			1		20 A	Automatic Doors Power Room...	40
41	--	--		--					1467 VA	1000 VA	1		20 A	Hand Dryer Power Room 106	42
43	FTU02, FTU24, FTU03, HRB02	20 A	HACR	2	780 VA	1000 VA					1		20 A	Hand Dryer Power Room 107	44
45	--	--		--			780 VA	1050 VA			2	HACR	20 A	FTU01c	46
47	Spare	20 A		1					0 VA	1050 VA	--		--	--	48
49	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	50
51	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	52
53	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	54
		Total Load:			13482 VA		15180 VA		8897 VA						
		Total Amps:			118 A		132 A		74 A						

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6593 VA	100.00%	6593 VA		
Lighting	9557 VA	100.00%	9557 VA	**Total Conn. Load:**	37559 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	35129 VA
Power	6550 VA	100.00%	6550 VA	**Total Conn.:**	104 A
Receptacle	14860 VA	83.65%	12430 VA	**Total Est. Demand:**	98 A

Notes:

Branch Panel: LP06

Location: Room 123
Supply From: MDP01
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 200 A
Model: NQ

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS

CKT	CIRCUIT DESCRIPTION	TRIP	CB ACC	POLES	A		B		C		POLES	CB ACC	TRIP	CIRCUIT DESCRIPTION	CKT
1	Lighting Room 120	20 A		1	66 VA	1672 VA					1		20 A	Lighting Room 121	2
3	Lighting Room 121	20 A		1			1760 VA	1672 VA			1		20 A	Lighting Room 121	4
5	Lighting Room 120	20 A		1					1100 VA	312 VA	1		20 A	Lighting Room 120	6
7	Lighting Room 122, 123	20 A		1	394 VA	710 VA					1		20 A	Lighting Room 127, 128, 129,...	8
9	Lighting Room 121	20 A		1			615 VA	540 VA			1		20 A	Exterior Receptacles	10
11	Motorized Shades Power Room...	20 A		1					600 VA	300 VA	1		20 A	Motorized Shades Power Room...	12
13	Receptacle Room 122, 120	20 A		1	900 VA	450 VA					1		20 A	Motorized Shades Power Room...	14
15	Receptacle Room 122	20 A		1			180 VA	540 VA			1		20 A	Receptacle Room 123	16
17	Receptacle Room 131, 123	20 A		1					900 VA	540 VA	1		20 A	Receptacle Room 123	18
19	Receptacle Room 122	20 A		1	360 VA	900 VA					1		20 A	Receptacle Room 130	20
21	Receptacle Room 129, 130	20 A		1			900 VA	900 VA			1		20 A	Receptacle Room 128, 121	22
23	Receptacle Room 127, 126	20 A		1					1080 VA	180 VA	1		20 A	Receptacle Room 120	24
25	Receptacle Room 125, 124, 121	20 A		1	540 VA	360 VA					1		20 A	Receptacle Room 120	26
27	Receptacle Room 120	20 A		1			360 VA	360 VA			1		20 A	Receptacle Room 123	28
29	Receptacle Room 130	20 A		1					180 VA	489 VA	2	HACR	20 A	FTU12, FTU14	30
31	FTU17, FTU18	20 A	HACR	2	707 VA	489 VA					--		--	--	32
33	--	--		--			707 VA	354 VA			2	HACR	20 A	FTU15	34
35	HRB05, HRB04, FTU19, FTU20...	20 A	HACR	2					448 VA	354 VA	--		--	--	36
37	--	--		--	448 VA	0 VA					1		20 A	Spare	38
39	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	40
41	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	42
43	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	44
45	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	46
47	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	48
49	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	50
51	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	52
53	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	54
		Total Load:			7996 VA		8888 VA		6482 VA						
		Total Amps:			69 A		76 A		54 A						

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3474 VA	100.00%	3474 VA		
Lighting	8301 VA	100.00%	8301 VA	**Total Conn. Load:**	23365 VA
Other	520 VA	100.00%	520 VA	**Total Est. Demand:**	23365 VA
Power	1350 VA	100.00%	1350 VA	**Total Conn.:**	65 A
Receptacle	9720 VA	100.00%	9720 VA	**Total Est. Demand:**	65 A

Notes:

Branch Panel: LP04

Location: Room 133
Supply From: MDP01
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 200 A
Model: NQ

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS

CKT	CIRCUIT DESCRIPTION	TRIP	CB ACC	POLES	A		B		C		POLES	CB ACC	TRIP	CIRCUIT DESCRIPTION	CKT
1	Lighting Room 132, 133	20 A		1	1560 VA	1420 VA					1		20 A	Lighting Room 132	2
3	Lighting Room 140, 121	20 A		1			445 VA	500 VA			1		20 A	Motorized Screen Room 132	4
5	Motorized Screen Room 132	20 A		1					500 VA	500 VA	1		20 A	Motorized Screen Room 132	6
7	Projector Receptacle Room 132	20 A		1	500 VA	500 VA					1		20 A	Motorized Screen Room 132	8
9	Projector Receptacle Room 132	20 A		1			500 VA	500 VA			1		20 A	Projector Receptacle Room 132	10
11	Receptacle Room 133	20 A		1					360 VA	500 VA	1		20 A	Projector Receptacle Room 132	12
13	Receptacle Room 132, 138	20 A		1	720 VA	720 VA					1		20 A	Receptacle Room 132	14
15	Receptacle Room 132	20 A		1			900 VA	720 VA			1		20 A	Receptacle Room 133	16
17	Receptacle Room 132	20 A		1					720 VA	720 VA	1		20 A	Receptacle Room 132	18
19	Receptacle Room 132	20 A		1	720 VA	720 VA					1		20 A	Receptacle Room 132	20
21	Receptacle Room 132	20 A		1			720 VA	360 VA			1		20 A	Receptacle Room 132, 140	22
23	Receptacle Room 132	20 A		1					360 VA	360 VA	1		20 A	Receptacle Room 132	24
25	Receptacle Room 132, 140	20 A		1	360 VA	720 VA					1		20 A	Receptacle Room 132	26
27	Receptacle Room 132	20 A		1			900 VA	720 VA			1		20 A	Receptacle Room 132, 121	28
29	Receptacle 121	20 A		1					360 VA	900 VA	1		20 A	Receptacle Room 121	30
31	Receptacle Room 121	20 A		1	900 VA	180 VA					1		20 A	Receptacle Room 121	32
33	Receptacle Room 121	20 A		1			900 VA	1113 VA			2	HACR	20 A	FTU25a	34
35	Receptacle Room 140	20 A		1					180 VA	1113 VA	--		--	--	36
37	Receptacle Room 133	20 A		1	360 VA										38
39	FTU26, FTU30, FTU27	20 A	HACR	2			146 VA								40
41	--	--		--				146 VA							42
43															44
45															46
47															48
49															50
51															52
53															54
		Total Load:			9380 VA		8424 VA		6719 VA						
		Total Amps:			80 A		72 A		56 A						

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2392 VA	100.00%	2392 VA		
Lighting	3425 VA	100.00%	3425 VA	**Total Conn. Load:**	24522 VA
Other	125 VA	100.00%	125 VA	**Total Est. Demand:**	21232 VA
Power	2000 VA	100.00%	2000 VA	**Total Conn.:**	68 A
Receptacle	16580 VA	80.16%	13290 VA	**Total Est. Demand:**	59 A

Notes:

Branch Panel: LP02

Location: Room 104
Supply From: MDP01
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Mains Type: MLO
Mains Rating: 200 A
Model: NQ

Panelboard Accessories:
1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS

CKT	CIRCUIT DESCRIPTION	TRIP	CB ACC	POLES	A		B		C		POLES	CB ACC	TRIP	CIRCUIT DESCRIPTION	CKT
1	Lighting Room 139, 141, 101	20 A		1	1602 VA	576 VA					1		20 A	Lighting Room 140, 121, 141	2
3	Lighting Room 141	20 A		1			402 VA	360 VA			1		20 A	Receptacle Room 141	4
5	Lighting Room 103, 102	20 A		1					925 VA	180 VA	1		20 A	Receptacle Room 102	6
7	Receptacle Room 108	20 A		1	180 VA	180 VA					1		20 A	Receptacle Room 108	8
9	Receptacle Room 141	20 A		1			360 VA	540 VA			1		20 A	Receptacle Room 141, 121	10
11	Receptacle Room 140	20 A		1					360 VA	360 VA	1		20 A	Receptacle Room 108	12
13	Receptacle Room 108	20 A		1	360 VA	360 VA					1		20 A	Receptacle Room 108	14
15	Receptacle Room 141	20 A		1			180 VA	360 VA			1		20 A	Receptacle Room 141	16
17	Receptacle Room 141	20 A		1					360 VA	540 VA	1		20 A	Receptacle Room 121	18
19	Receptacle Room 141	20 A		1	360 VA	540 VA					1		20 A	Receptacle Room 140	20
21	Receptacle Room 108	20 A		1			360 VA	360 VA			1		20 A	Receptacle Room 141	22
23	Receptacle Room 140	20 A		1					540 VA	540 VA	1		20 A	Receptacle Room 141, 121	24
25	Receptacle Room 139	20 A		1	540 VA	540 VA					1		20 A	Receptacle Room 141	26
27	Receptacle Room 140, 141	20 A		1			540 VA	540 VA			1		20 A	Receptacle Room 139	28
29	Receptacle Room 139	20 A		1					720 VA	720 VA	1		20 A	Receptacle Room 139	30
31	Receptacle Room 140	20 A		1	720 VA	720 VA					1		20 A	Receptacle Room 108	32
33	Receptacle Room 141, 140	20 A		1			540 VA	720 VA			1		20 A	Receptacle Room 140	34
35	Receptacle Room 139, 102	20 A		1					720 VA	720 VA	1		20 A	Receptacle Room 141	36
37	Receptacle Room 141	20 A		1	720 VA	720 VA					1		20 A	Receptacle Room 139	38
39	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	40
41	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	42
43	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	44
45	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	46
47	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	48
49	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	50
51	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	52
53	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	54
		Total Load:			8118 VA		5262 VA		6685 VA						
		Total Amps:			69 A		44 A		58 A						

Legend:
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3505 VA	100.00%	3505 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	20065 VA
Receptacle	16560 VA	80.19%	13280 VA	**Total Est. Demand:**	16785 VA
				Total Conn.:	56 A
				Total Est. Demand:	47 A

Notes:

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Company Name
Missouri State Certificate of Authority #

SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	Author

Drawing No.
E501
ELECTRICAL SCHEDULES

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KEYNOTE LEGEND

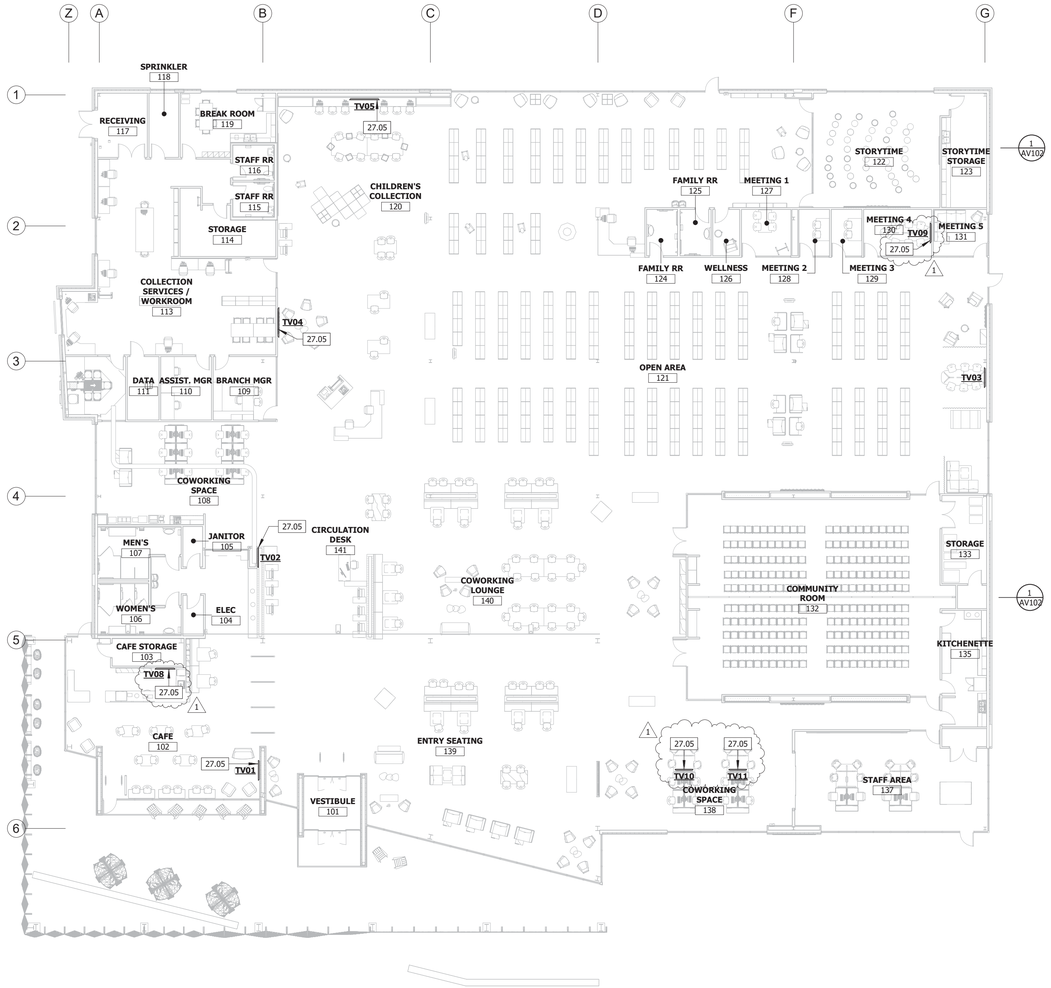
KEY VALUE	KEYNOTE TEXT
27.05	DIGITAL DISPLAY TV. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT. REFER TO DIGTIAL DISPLAY SCHEDULE.

DIGITAL DISPLAY SCHEDULE

NOTES:	
1.	PROVIDE REQUIRED ACCESSORIES INCLUDING BUT NOT LIMITED TO CABLES, CONNECTORS, ADAPTERS, POWER SUPPLIES, ETC.
2.	PROVIDE MOUNTING BRACKET ASSEMBLY.
3.	REFER TO ARCHITECTURAL PLANS FOR INSTALLATION HEIGHT AND LOCATION.

TYPE MARK	MANUFACTURER	MODEL NUMBER	NOMINAL SIZE	MOUNTING		NOTES	EQUIVALENTS
				TYPE	MOVEMENT		
TV01	LG	55UH5E-B	55"	WALL	TILT	1,2,3	SAMSUNG
TV02	LG	55UH5E-B	55"	WALL	TILT	1,2,3	SAMSUNG
TV03	LG	55UH5E-B	55"	WALL	TILT	1,2,3	SAMSUNG
TV04	LG	86UH5E-B	86"	WALL	TILT	1,2,3	SAMSUNG
TV05	LG	86UH5E-B	86"	WALL	TILT	1,2,3	SAMSUNG
TV06	LG	86UH5E-B	86"	WALL	TILT	1,2,3	SAMSUNG
TV07	LG	1 86UH5E-B	86"	WALL	TILT	1,2,3	SAMSUNG
TV08	LG	55UH5E-B	55"	WALL	TILT	1,2,3	SAMSUNG
TV09	LG	55UH5E-B	55"	WALL	TILT	1,2,3	SAMSUNG
TV10	LG	49UH5E-B	49"	WALL	TILT	1,2,3	SAMSUNG
TV11	LG	49UH5E-B	49"	WALL	TILT	1,2,3	SAMSUNG

1



1 AUDIO/VIDEO PLAN
1/16" = 1'-0"

AUDIO/VIDEO LEGEND

A B	BELL/CHIME
A PB	PUSH BUTTON
A CS	CEILING SPEAKER
A WS	WALL SPEAKER
A CP	CONTROL PANEL
A IP	INPUT WALL PLATE

AUDIO/VIDEO SPECIFICATIONS:

27 40 00 - AUDIO/VIDEO COMMUNICATIONS

1. THE DIVISION 27 A/V CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AND ACCESSORIES INCLUDING BUT NOT LIMITED TO CABLES, CONNECTIONS, ADAPTERS, POWER SUPPLIES ETC. REQUIRED FOR A FULLY OPERATIONAL SYSTEM.

2. THE DIVISION 26 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUITS AND BOXES REQUIRED FOR ROUGH-IN OF A/V COMMUNICATION.

3. ALL A/V COMMUNICATIONS WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION AND RELEVANT A/V COMMUNICATION STANDARDS.

4. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR ADDITIONAL INFORMATION.

5. COOPERATE CLOSELY WITH GENERAL CONTRACTOR AND ALL OTHER TRADES.

6. PRIOR TO ANY INSTALLATION, A/V CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE TO CONFIRM/VERIFY ALL EQUIPMENT AND INSTALLATION LOCATION(S)/HEIGHT(S).

7. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019

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Revision No.	Description	Date
1	Addendum #01	01-13-2020

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.
AV100
AUDIO/VIDEO PLAN

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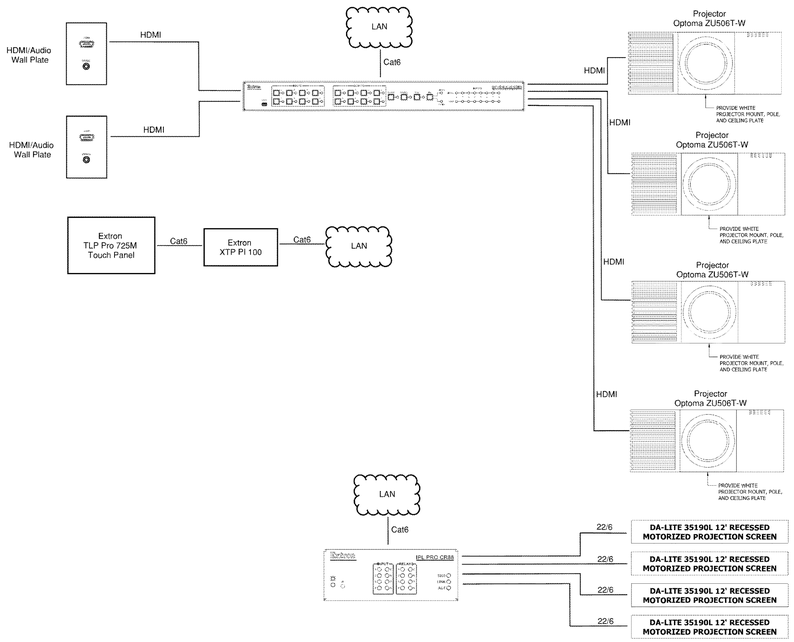
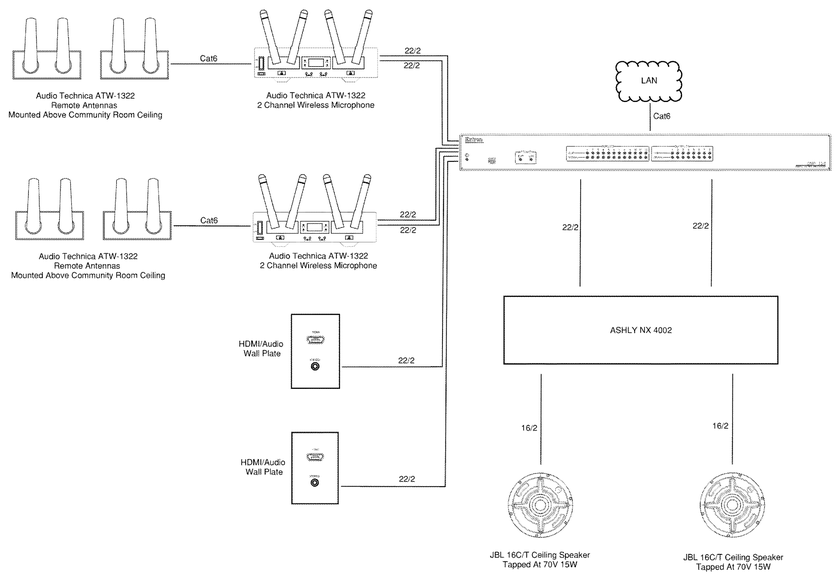
KEYNOTE LEGEND

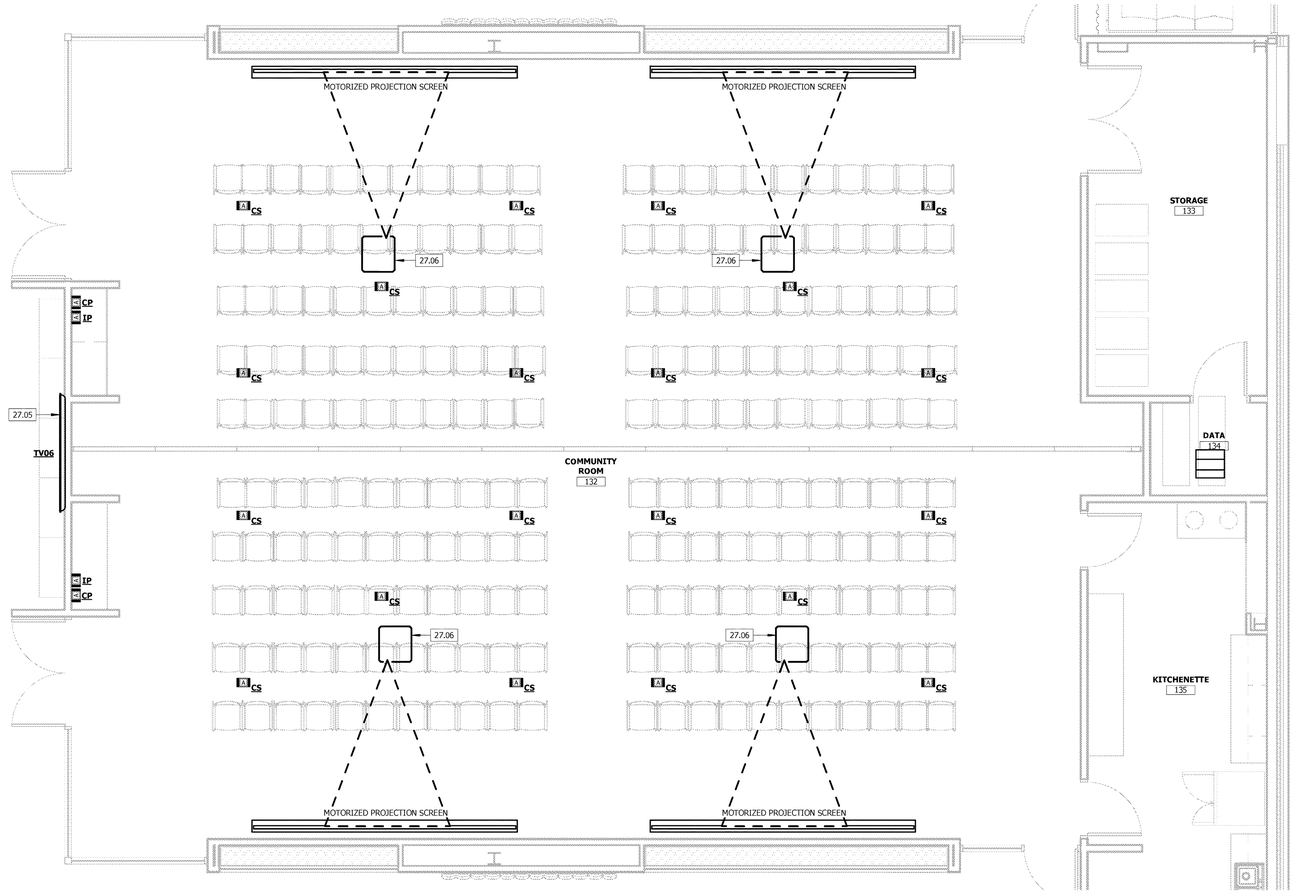
KEY VALUE	KEYNOTE TEXT
27.05	DIGITAL DISPLAY TV. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT. REFER TO DIGITIAL DISPLAY SCHEDULE.
27.06	CEILING PROJECTOR. REFER TO ASSOICATED A/V RISER.



3 VIDEO FLOW - COMMUNITY ROOM
1/16" = 1'-0"



2 AUDIO FLOW - COMMUNITY ROOM
1/16" = 1'-0"



1 AUDIO/VIDEO PLAN - COMMUNITY ROOM
1/4" = 1'-0"

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Revision No.	Description	Date

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.

AV101
AUDIO/VIDEO PLAN - COMMUNITY ROOM

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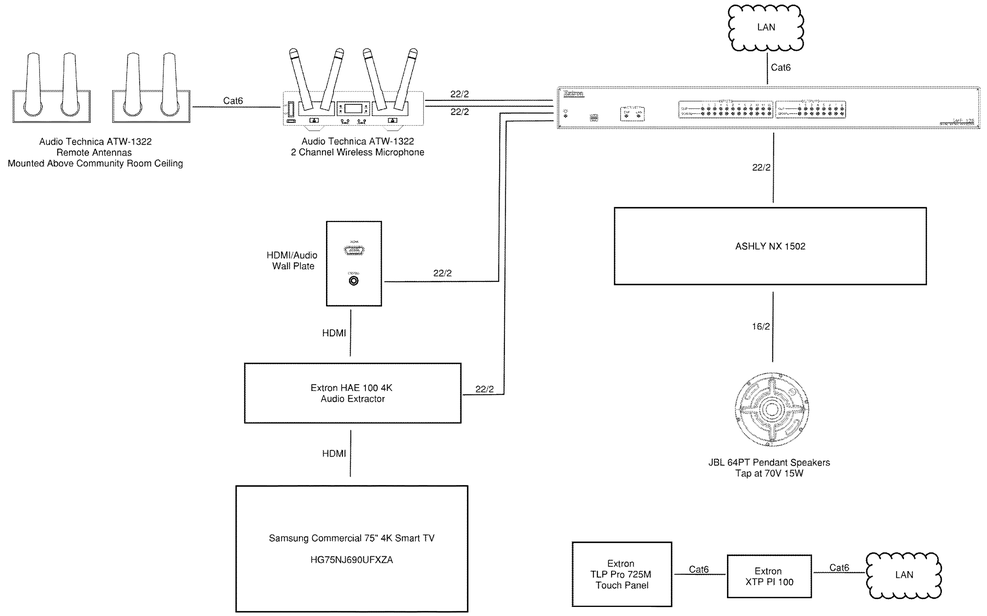
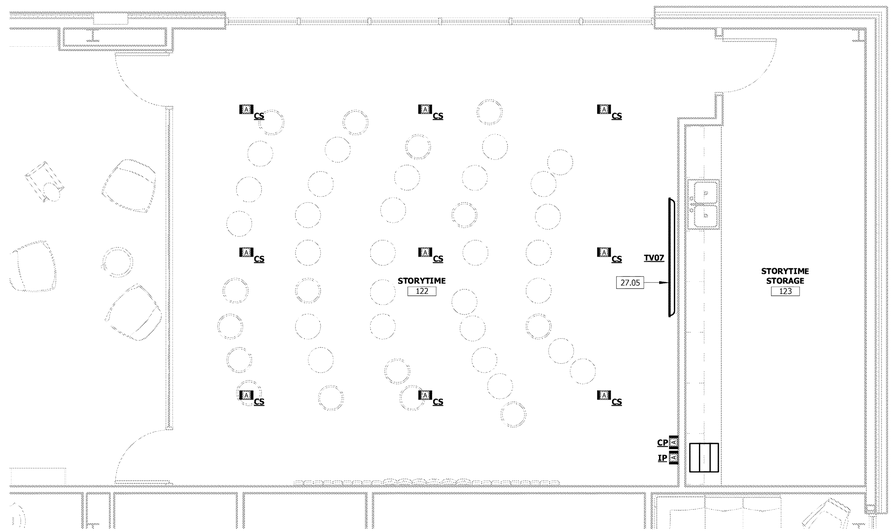
KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
27.05	DIGITAL DISPLAY TV. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT. REFER TO DIGTIAL DISPLAY SCHEDULE.



2 AV FLOW - STORY TIME

NOT TO SCALE



1 AUDIO/VIDEO PLAN - STORY TIME

1/4" = 1'-0"

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Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.

AV102

AUDIO/VIDEO PLAN - STORY TIME

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