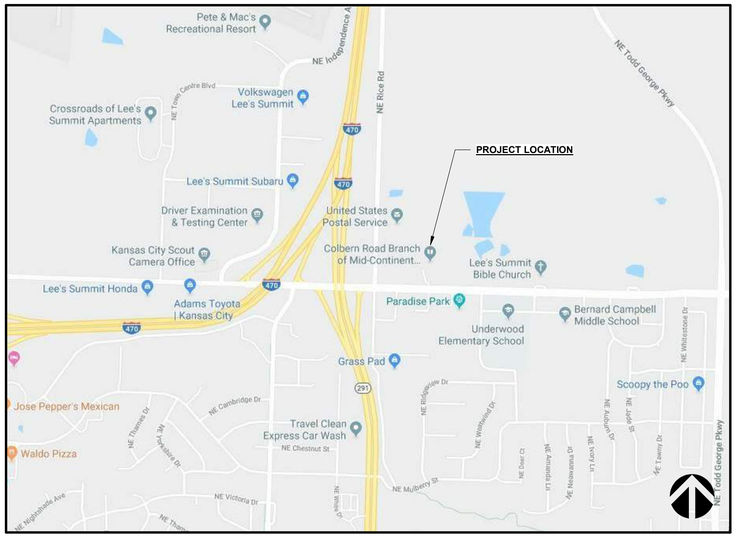



SITE LOCATION




DO NOT CONSTRUCT FROM THIS RENDERING

SAPP DESIGN ARCHITECTS

helix.

# Mid-Continent Public Library
## NEW BRANCH LIBRARY
# Colbert Road Branch

MID-CONTINENT PUBLIC LIBRARY

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, O=Development, OU=LS Users, OU=LOC, OU=LOC
Reason: release for construction
Date: 2020.11.05 09:18:09 -06'00'

## WORK PACKAGE #10

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AV101 AUDIO/VIDEO PLAN - COMMUNITY ROOM
AV102 AUDIO/VIDEO PLAN - STORY TIME


JE DUNN CONSTRUCTION — Missouri State Certificate of Authority # 2005000285

Landscape Architect of Record: ochsner hare + hare the olsson studio — Missouri State Certificate of Authority # 2004004242

Structural \ Civil Engineer of Record: olsson — Missouri State Certificate of Authority # E-2016000752

MEP Engineer of Record: TRUE ENGINEERING MECHANICAL · ELECTRICAL · PLUMBING

Associate Architect \ Interior Design: helix. — Missouri State Certificate of Authority # 00720

Mid-Continent Public Library
NEW BRANCH LIBRARY
**Colbern Road Branch**
1000 NE COLBERN ROAD
LEE'S SUMMIT, MISSOURI 64086
JACKSON COUNTY

PACKAGE 10

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

SET ____

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020

# 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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Mid-Continent Public Library
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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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

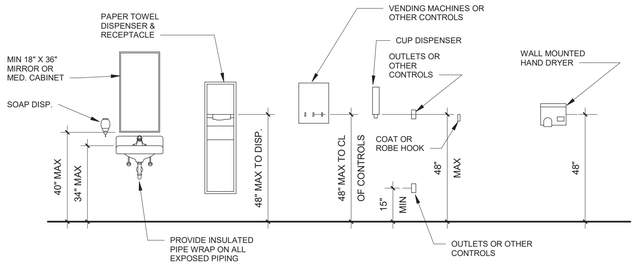
# GENERAL NOTES

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<br>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"

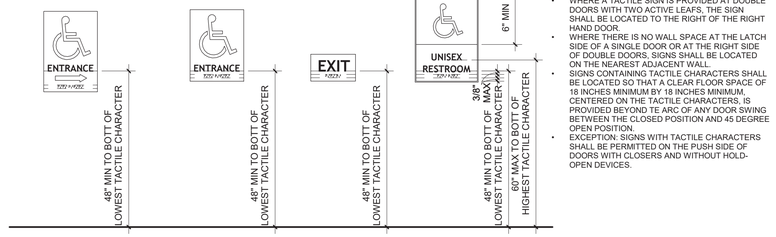
DIRECTIONAL SIGNAGE REQUIRED AT NON-ACCESSIBLE EXITS, INTERIOR AND EXTERIOR, INDICATING ROUTE TO NEAREST ACCESSIBLE ELEMENT

ENTRANCE SIGNAGE REQUIRED AT ACCESSIBLE EXTERIOR ENTRANCES

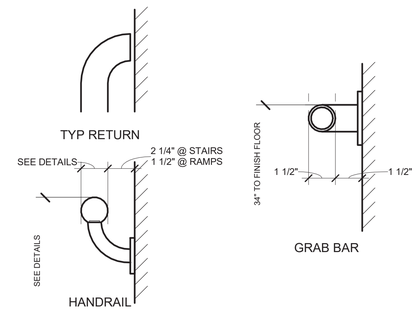
EXIT SIGNAGE REQUIRED ADJACENT TO ACCESSIBLE EXIT PASSAGEWAY AND DISCHARGE

NO LETTERS OR BRAILLE CHARACTERS SHALL BE LOCATED IN PICTOGRAM FIELD

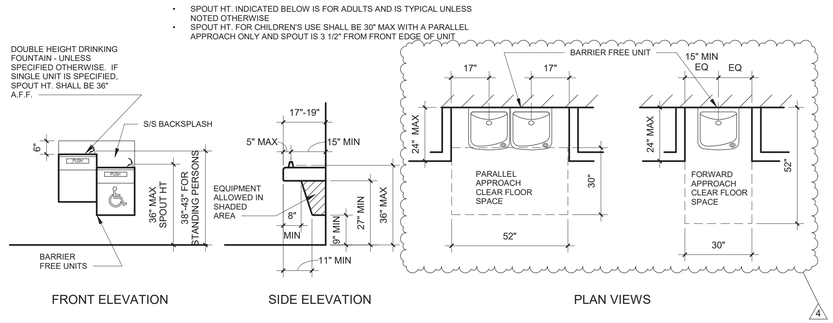
SIGNAGE LOCATION REQUIRMENTS
- WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE.
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE 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"



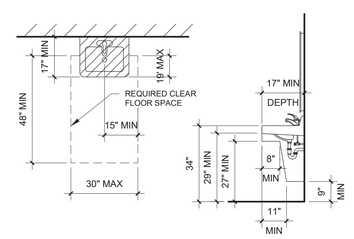

## 7 HANDRAILS/GRAB BARS
3" = 1'-0"




- 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

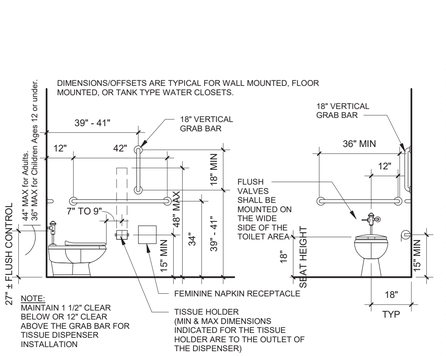
## 6 ACCESSIBLE DRINKING FOUNTAIN
3/8" = 1'-0"

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

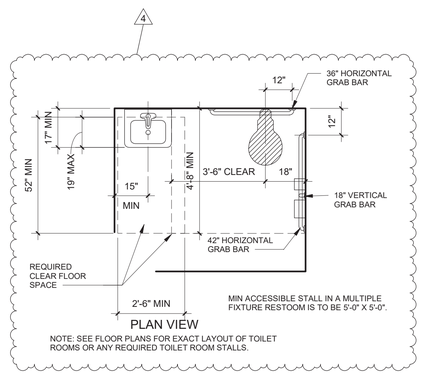



NOTE: COUNTERTOP MOUNTED LAVATORIES ARE TO BE MOUNTED WITH SAME CLEARANCES, REQUIREMENTS, ETC.

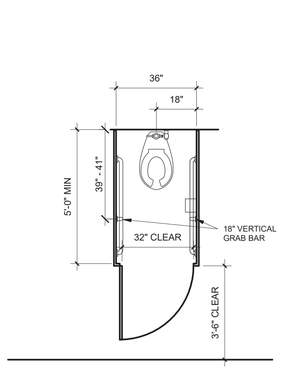
## 5 ACCESSIBLE LAVATORY
3/8" = 1'-0"



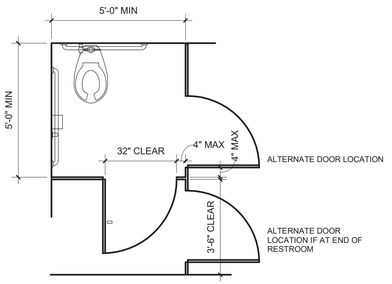

## 4 ACCESSIBLE WATER CLOSETS
3/8" = 1'-0"




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

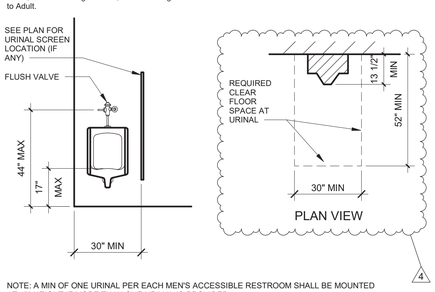



## 2 ACCESSIBLE COMPARTMENT
3/8" = 1'-0"




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

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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Architect of Record




Michael James Sapp, Architect MO A-5051

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|---|---|---|
| 4 | ASI 02 | 03/13/20 |

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

Drawing No.

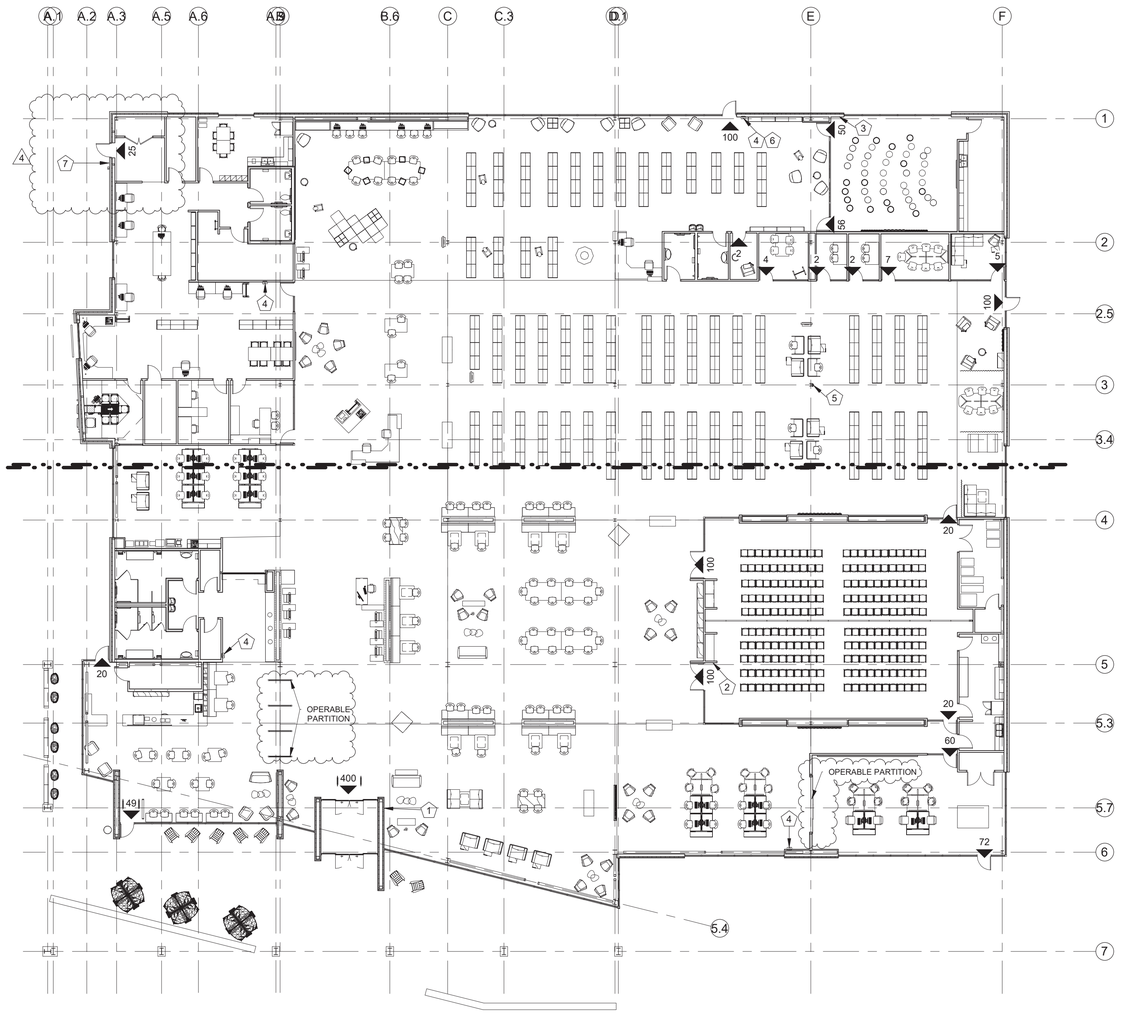
**G101**

**STANDARD ACCESSIBLITY DETAILS**


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11/05/2020




## 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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Drawing No.

**G200**

**OVERALL CODE SUMMARY**


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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

## 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
C5.3 GRADING DETAIL
C6.0 UTILITY PLAN
C7.0 STORM WATER PLAN & PROFILE
C7.1 STORM WATER PLAN & PROFILE
C7.2 STORM WATER PLAN & PROFILE
C8.0 DRAINAGE PLAN
C8.1 DRAINAGE CALCULATIONS
C9.0 EROSION CONTROL PLAN - PRE CONSTRUCTION
C9.1 EROSION CONTROL PLAN - CONSTRUCTION
C9.2 EROSION CONTROL PLAN - POST CONSTRUCTION
C10.0 STANDARD DETAILS
C10.1 STANDARD DETAILS
C10.2 STANDARD DETAILS
C10.3 STANDARD DETAILS
C10.4 STANDARD DETAILS
C10.5 STANDARD DETAILS
C10.6 STANDARD DETAILS

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Kansas City, MO 64108 816.300.0300

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Mid-Continent Public Library
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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 |
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**ISSUE FOR CITY REVIEW**
**02.10.2020**

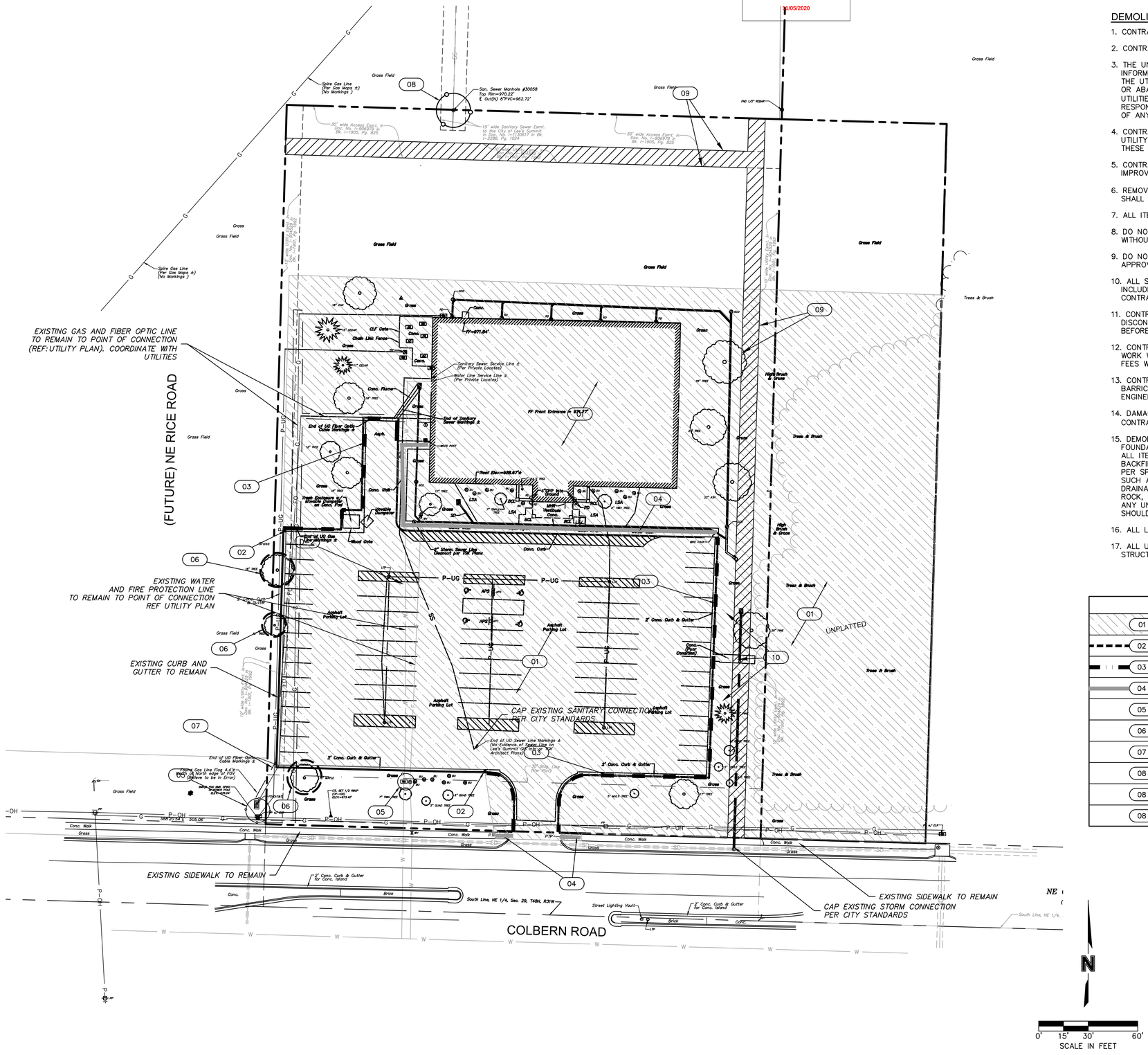
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| B18-0330 | 02.05.20 | RLK |

Drawing No.
**C1.0**
**GENERAL NOTES**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
3/05/2020




## 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

N

0' 15' 30' 60'
SCALE IN FEET


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JACKSON COUNTY

PACKAGE **10**

Engineer of Record




Terry M Parsons, Engineer MO PE-2018010505


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**ISSUE FOR CITY REVIEW**
**02.10.2020**

| Project No. | Date | Drawn |
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| B18-0330 | 02.05.20 | RLK |

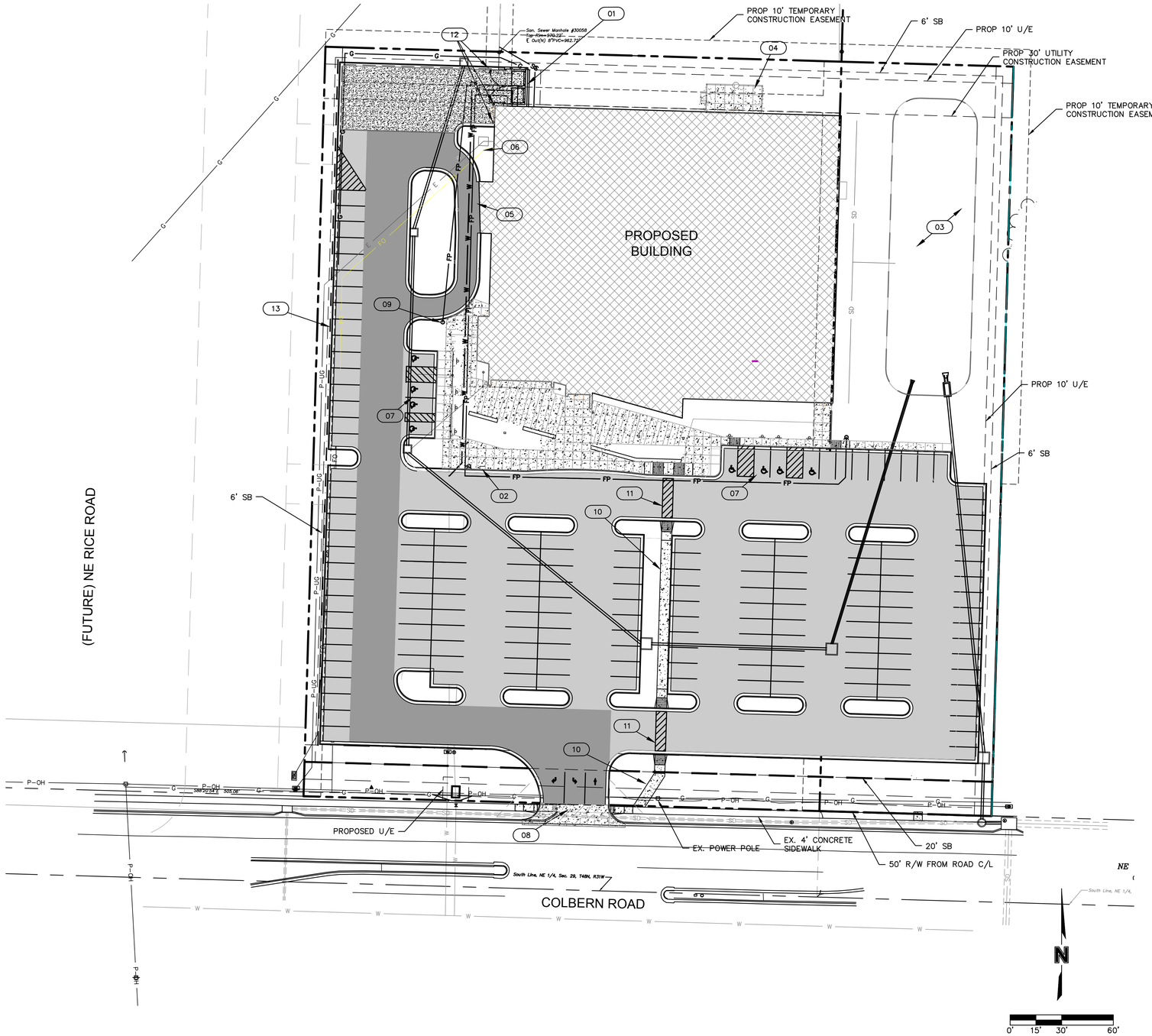
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**C2.0**
**DEMOLITION PLAN**


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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




| 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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JACKSON COUNTY

PACKAGE 10

Engineer of Record
STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2018010505
12-16-2020
PROFESSIONAL ENGINEER
Terry M Parsons, Engineer MO PE-2018010505

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**ISSUE FOR CITY REVIEW**
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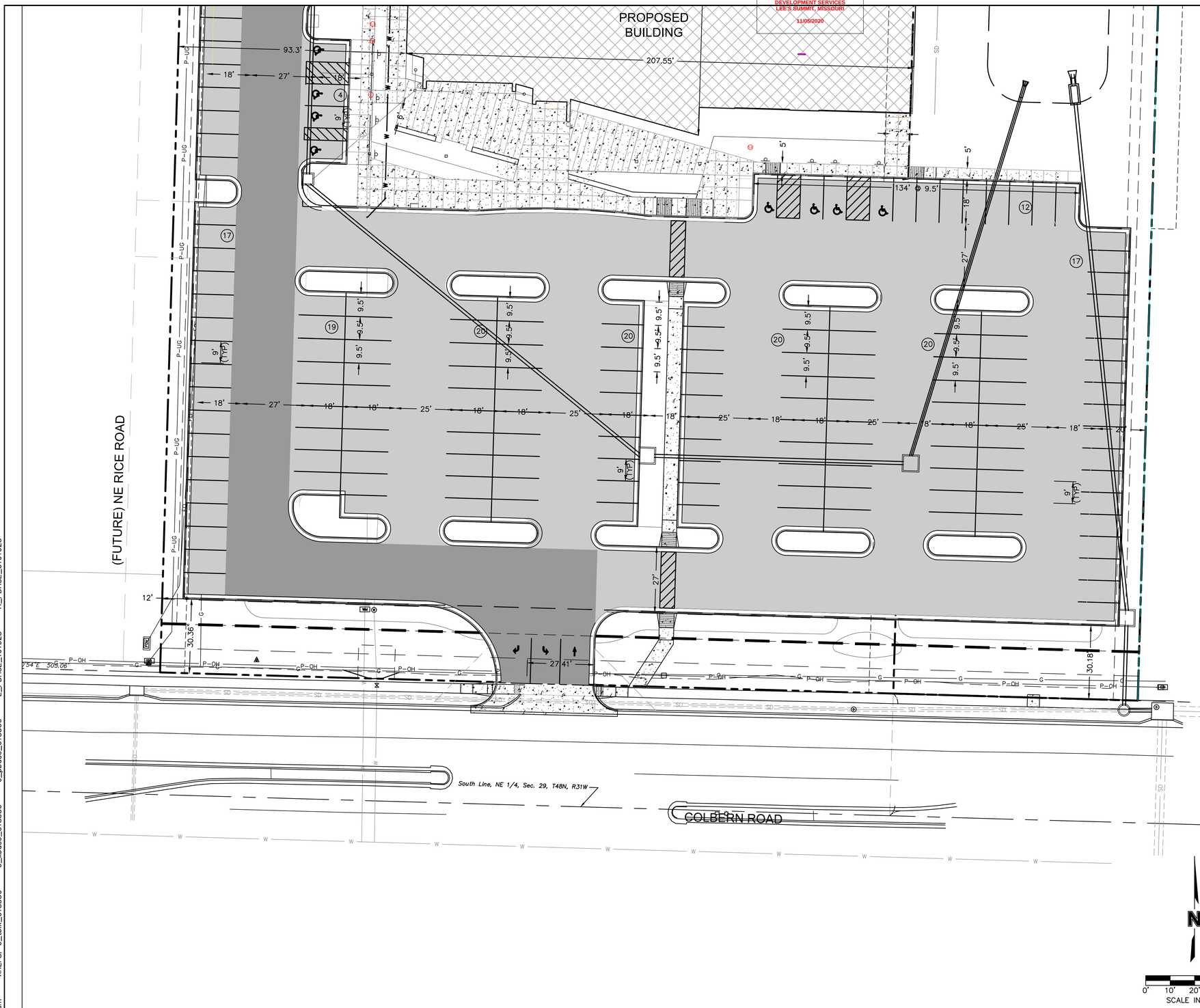
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| B18-0330 | 02.05.20 | RLK |

Drawing No.
# C3.0
**FINAL DEVELOPMENT PLAN**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




| 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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Springfield, MO 65804 417.877.9600
Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

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1629 Walnut
Kansas City, MO 64108 816.300.0300

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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

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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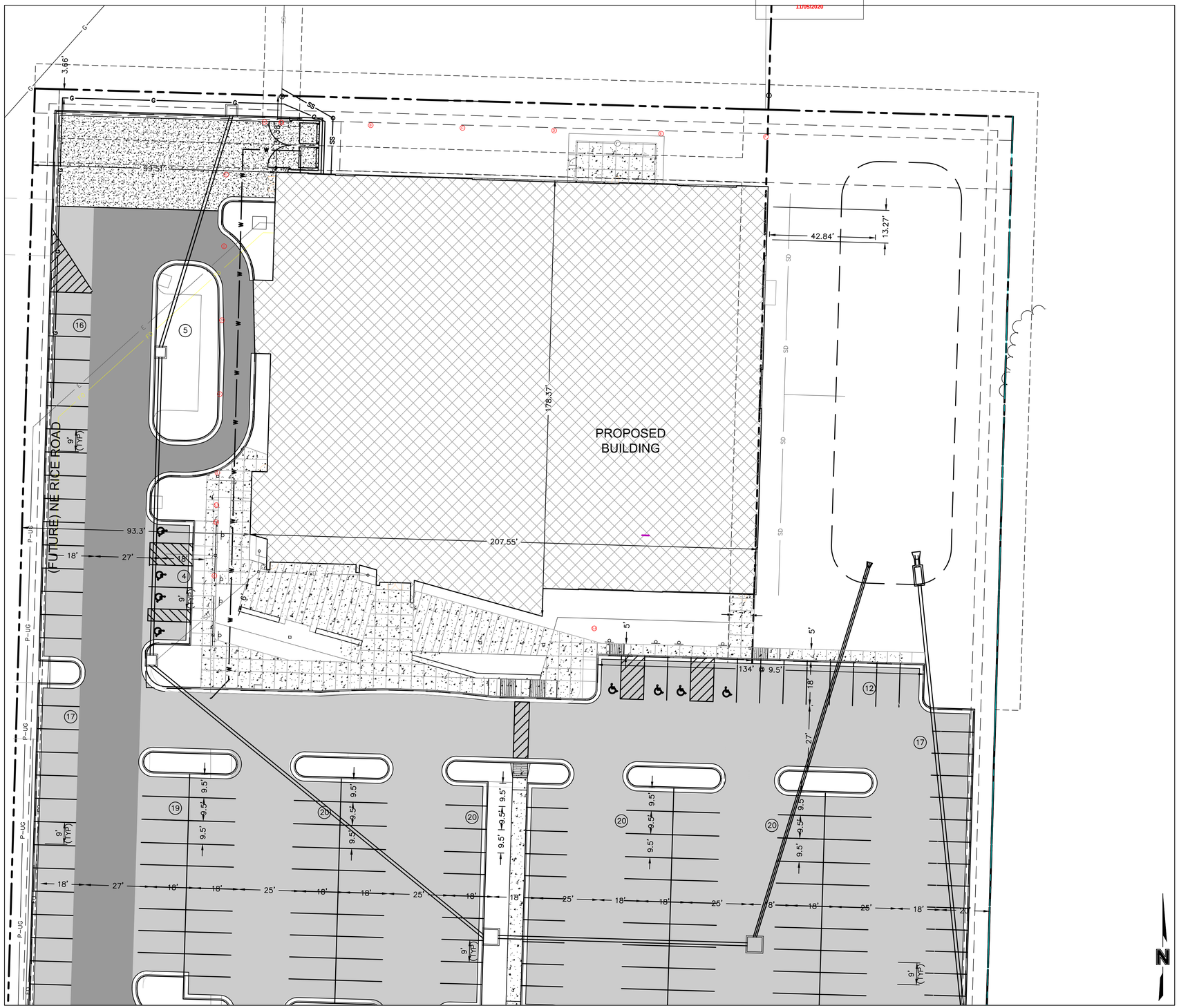
Drawing No.

**C4.0**
**SITE DIMENSION PLAN**

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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




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2. ------
3. ------
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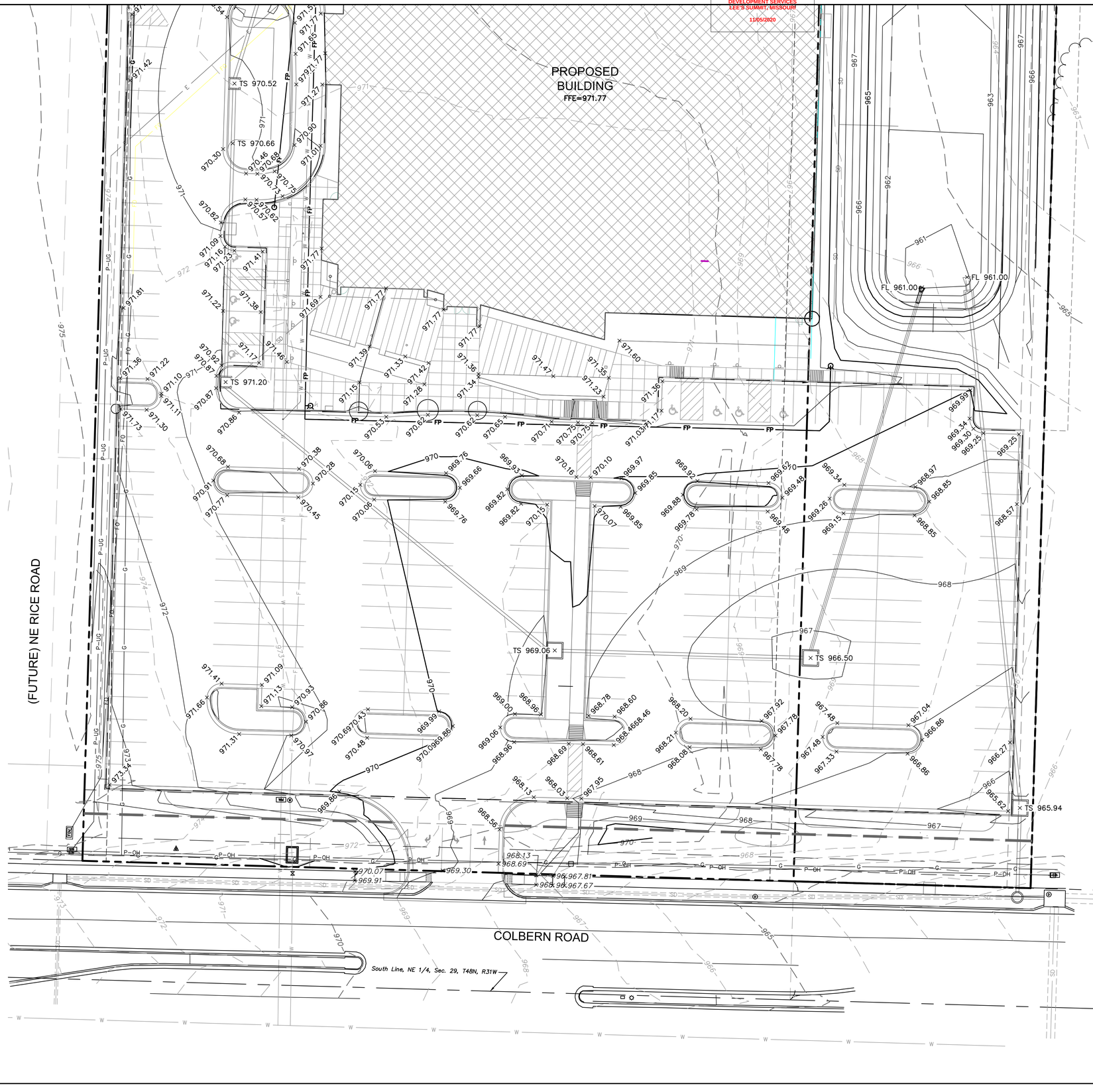
Drawing No.

# C4.1
**SITE DIMENSION PLAN**


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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




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- T — PROPOSED TURF DRAIN LINE
- SS — PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & GUTTER
- PROPOSED BUILDING

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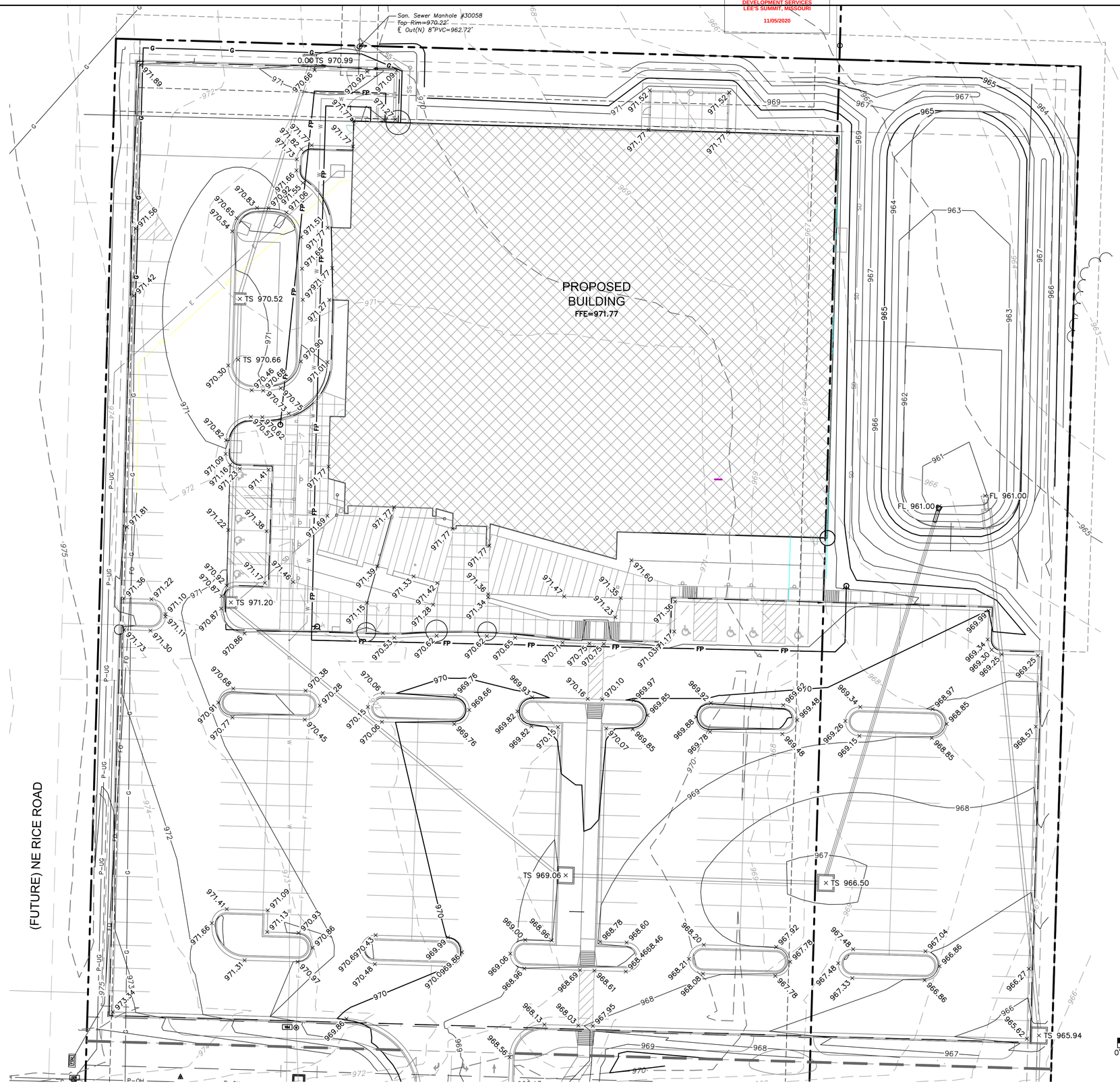
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Drawing No.
# C5.0
**GRADING PLAN**


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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




## EXISTING CONDITIONS LEGEND

- PROPERTY LINES
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- UNDERGROUND FIBER OPTIC (FO)
- GAS LINE (G)
- WATER LINE (W)
- STORM SEWER LINE (SD)
- SANITARY SEWER LINE (SS)

## PROPOSED CONDITIONS LEGEND

- PROPOSED UNDERGROUND ELECTRIC (E)
- PROPOSED FIBER OPTIC (FO)
- PROPOSED WATER LINE (W)
- PROPOSED FIRE PROTECTION LINE (FP)
- PROPOSED STORM SEWER LINE (SD)
- PROPOSED TURF DRAIN LINE (T)
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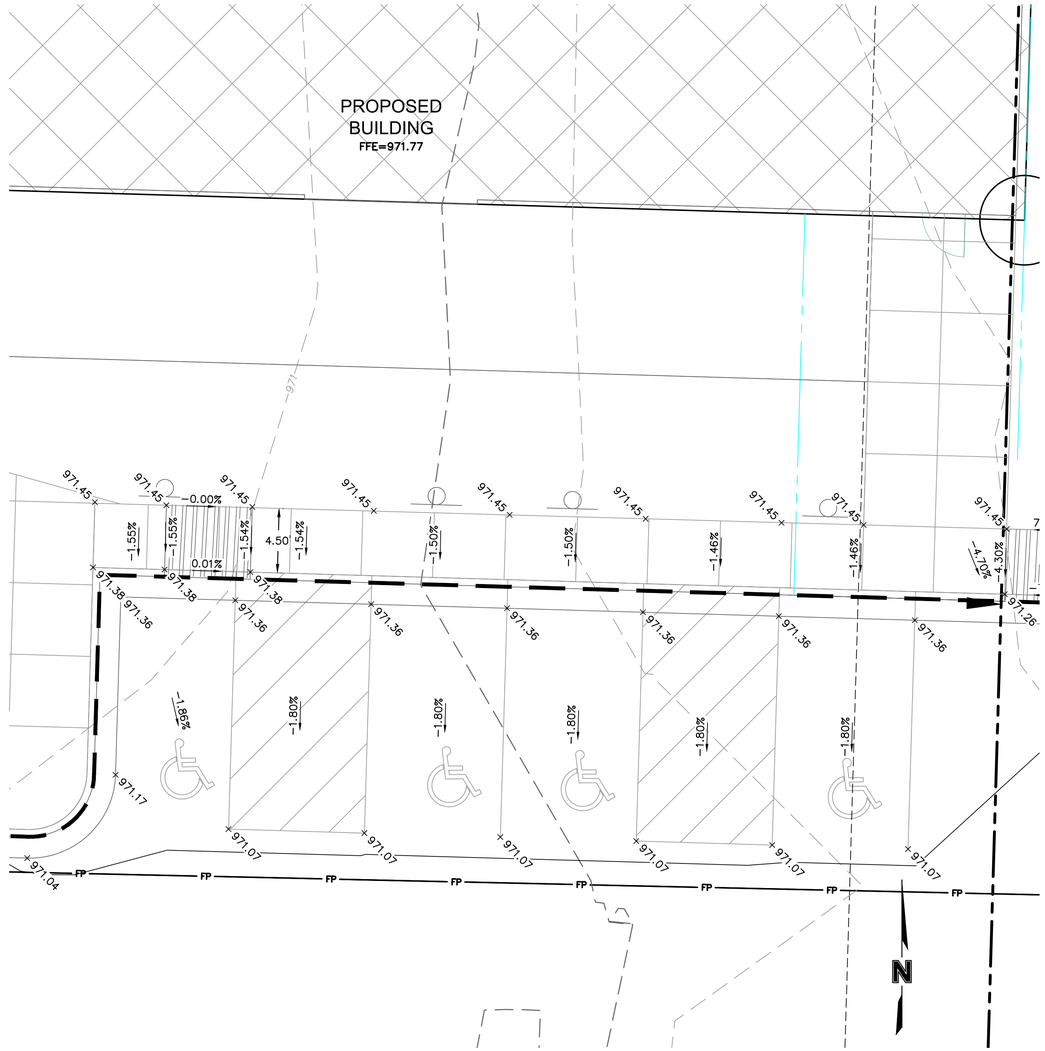
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## GRADING PLAN


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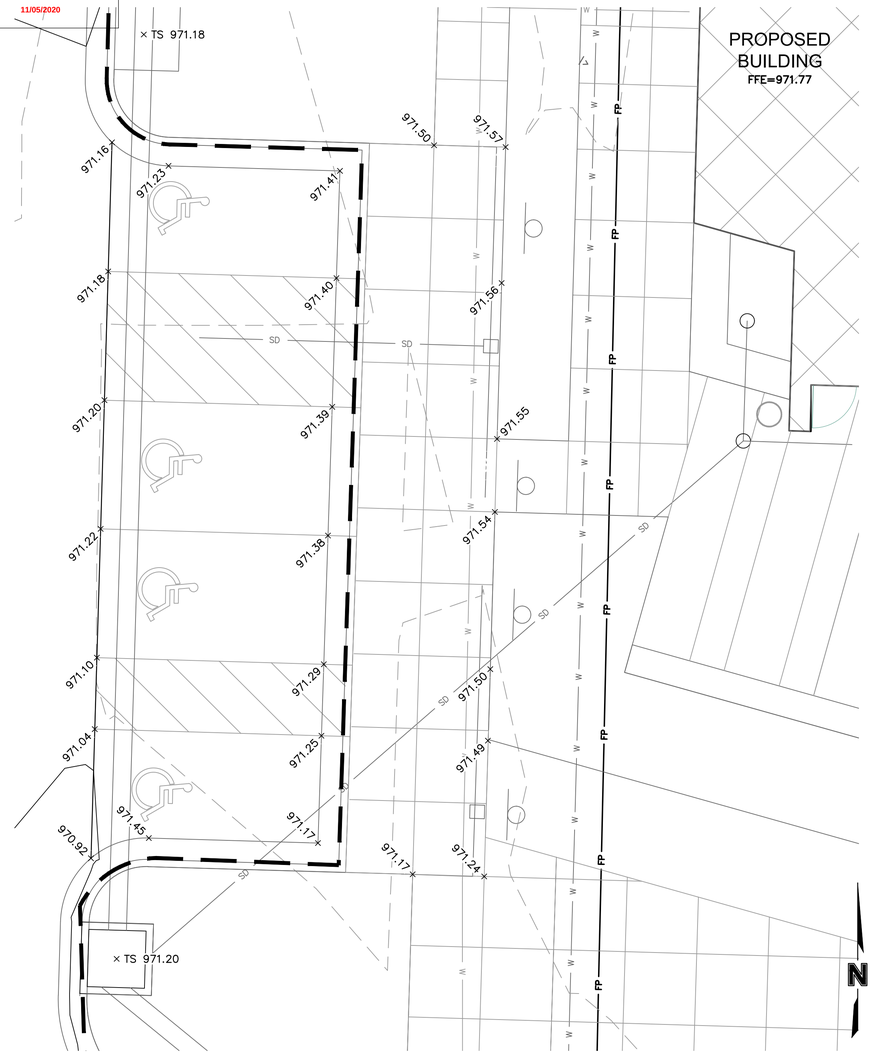

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LEE'S SUMMIT, MISSOURI

11/05/2020




GRADING DETAIL A
SCALE: 1"=5'




GRADING DETAIL B
SCALE: 1"=5'

## EXISTING CONDITIONS LEGEND

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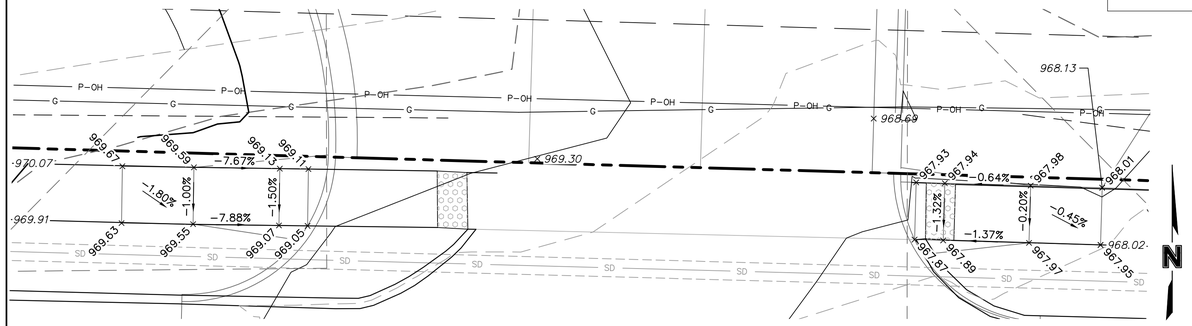
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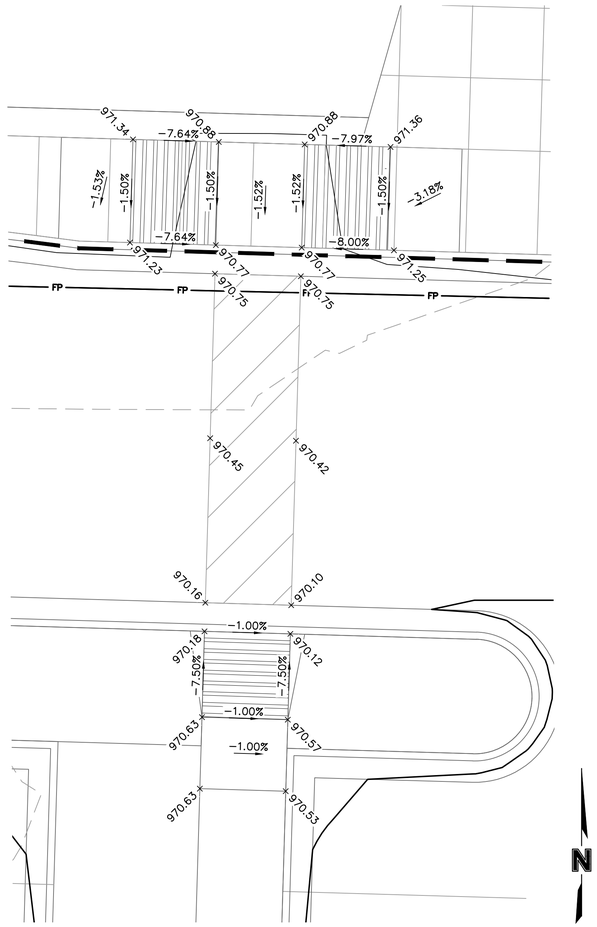
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**GRADING DETAILS**

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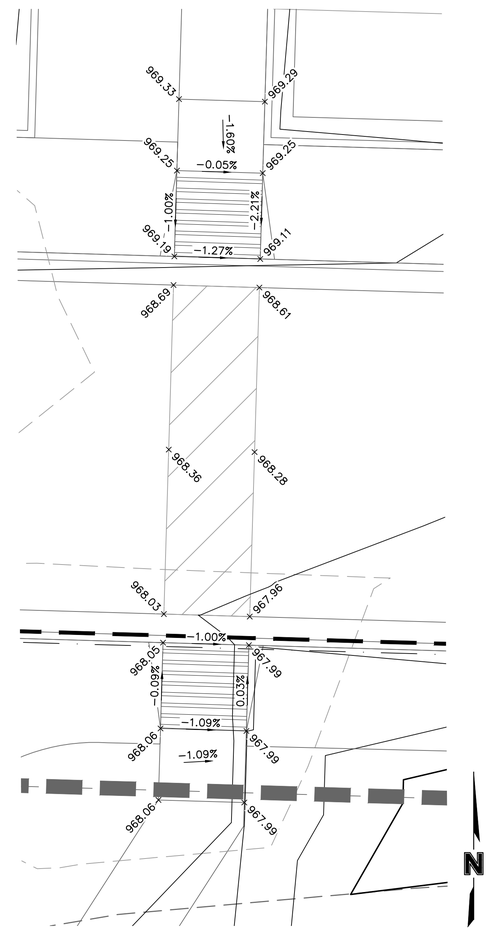
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11/05/2020




## GRADING DETAIL C
SCALE: 1"=5'




## GRADING DETAIL D
SCALE: 1"=5'




## GRADING DETAIL E
SCALE: 1"=5'

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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

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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| B18-0330 | 02.05.20 | RLK |

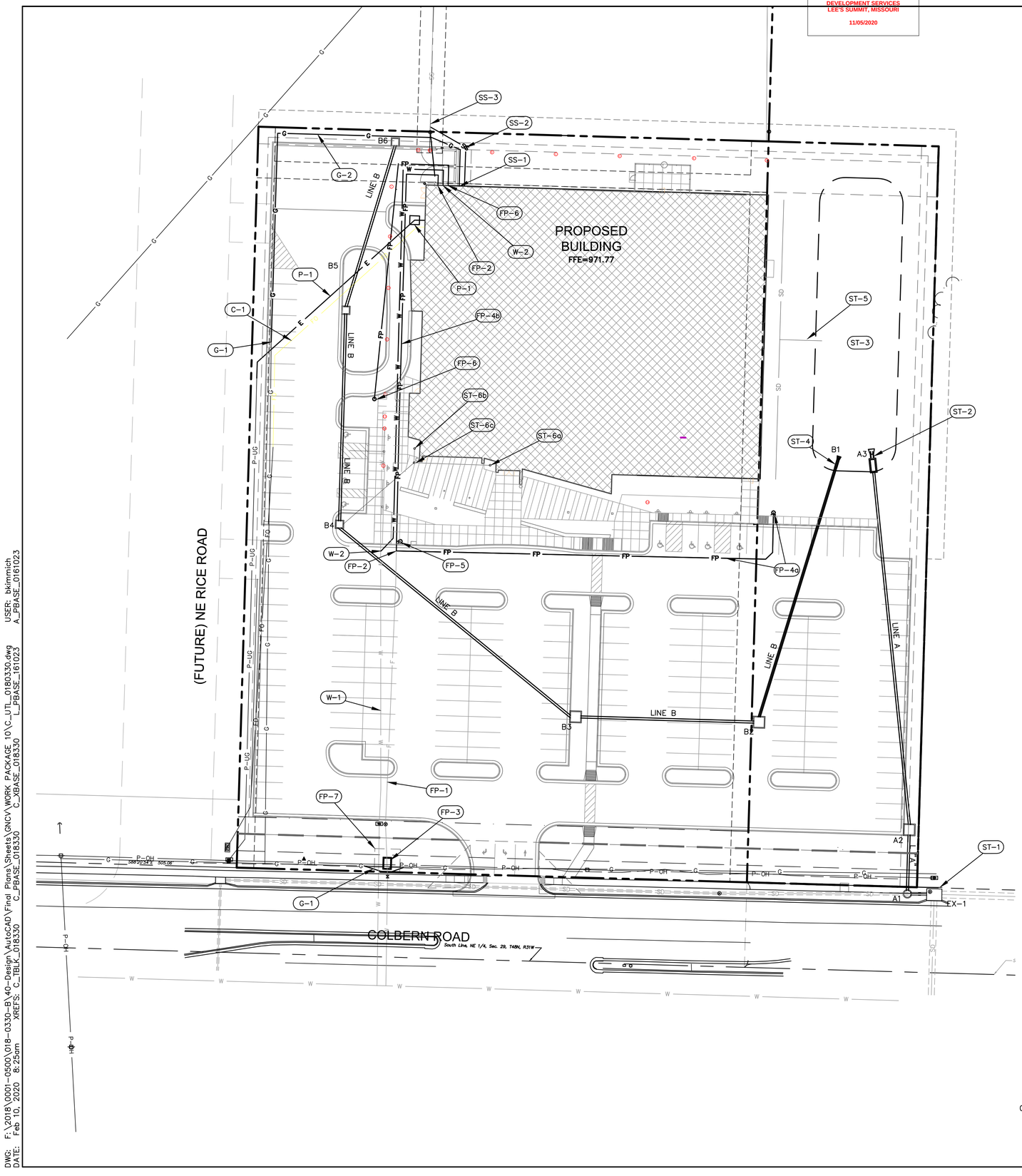
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**GRADING DETAILS**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




## 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
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- 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

## 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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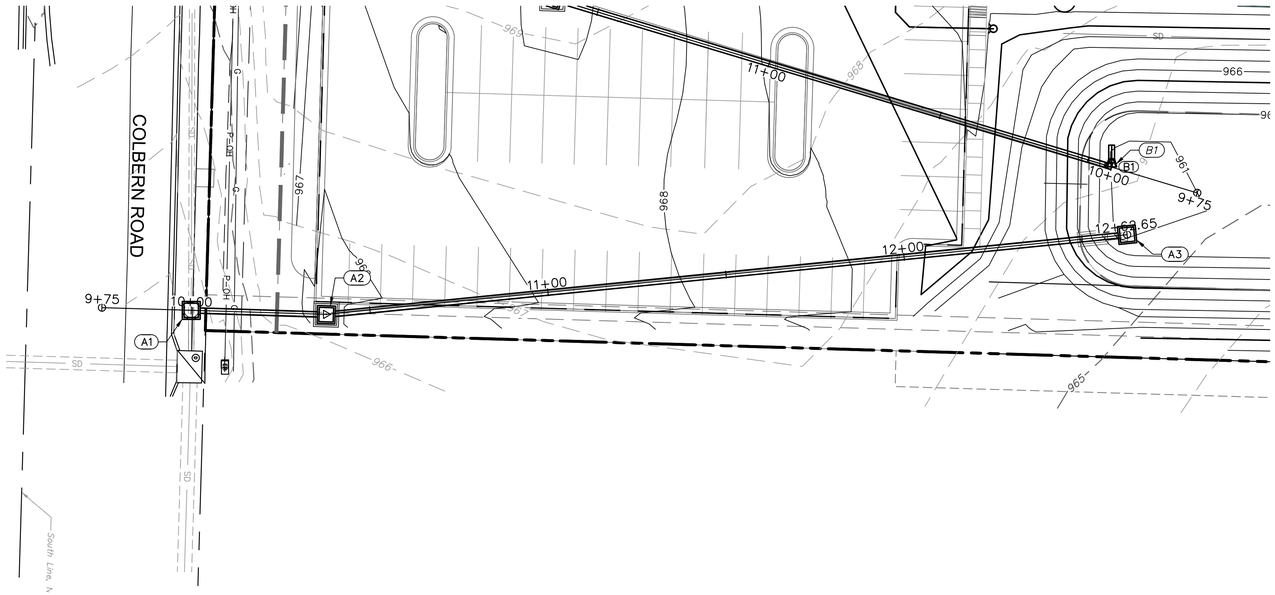
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Drawing No.
**C6.0**
**UTILITY PLAN**


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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




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

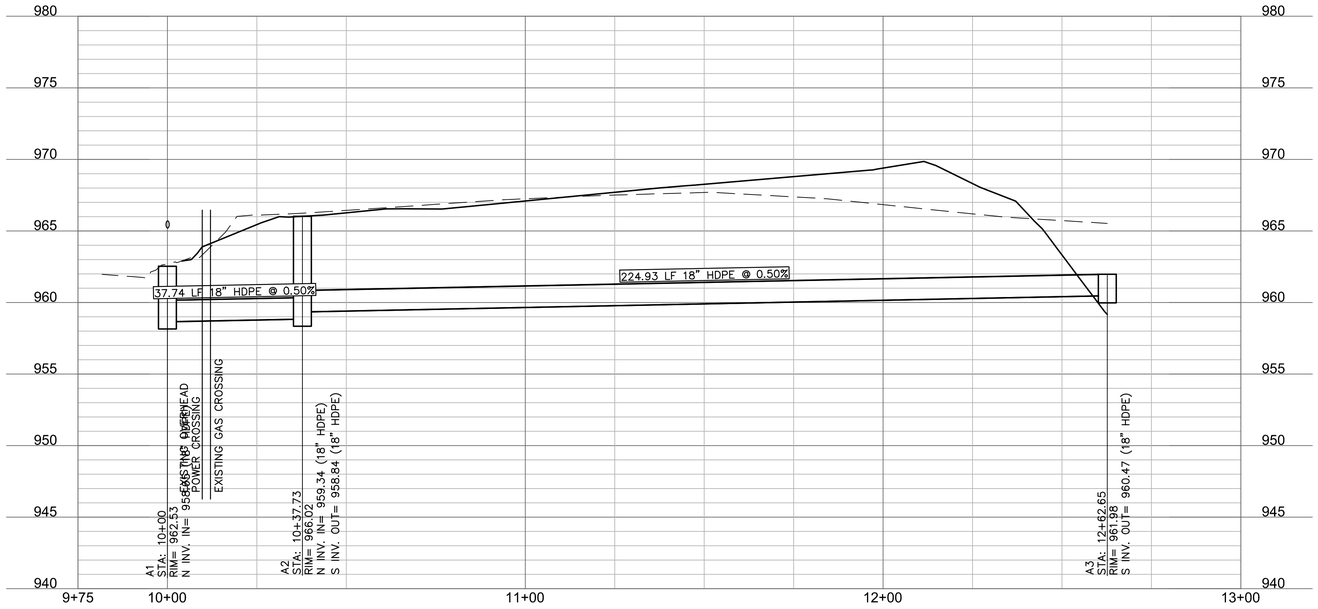
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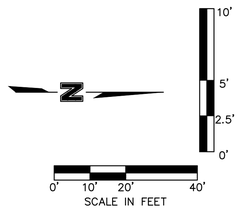
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## STORM LINE A (9+75 - 13+00)




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PACKAGE **10**

Engineer of Record




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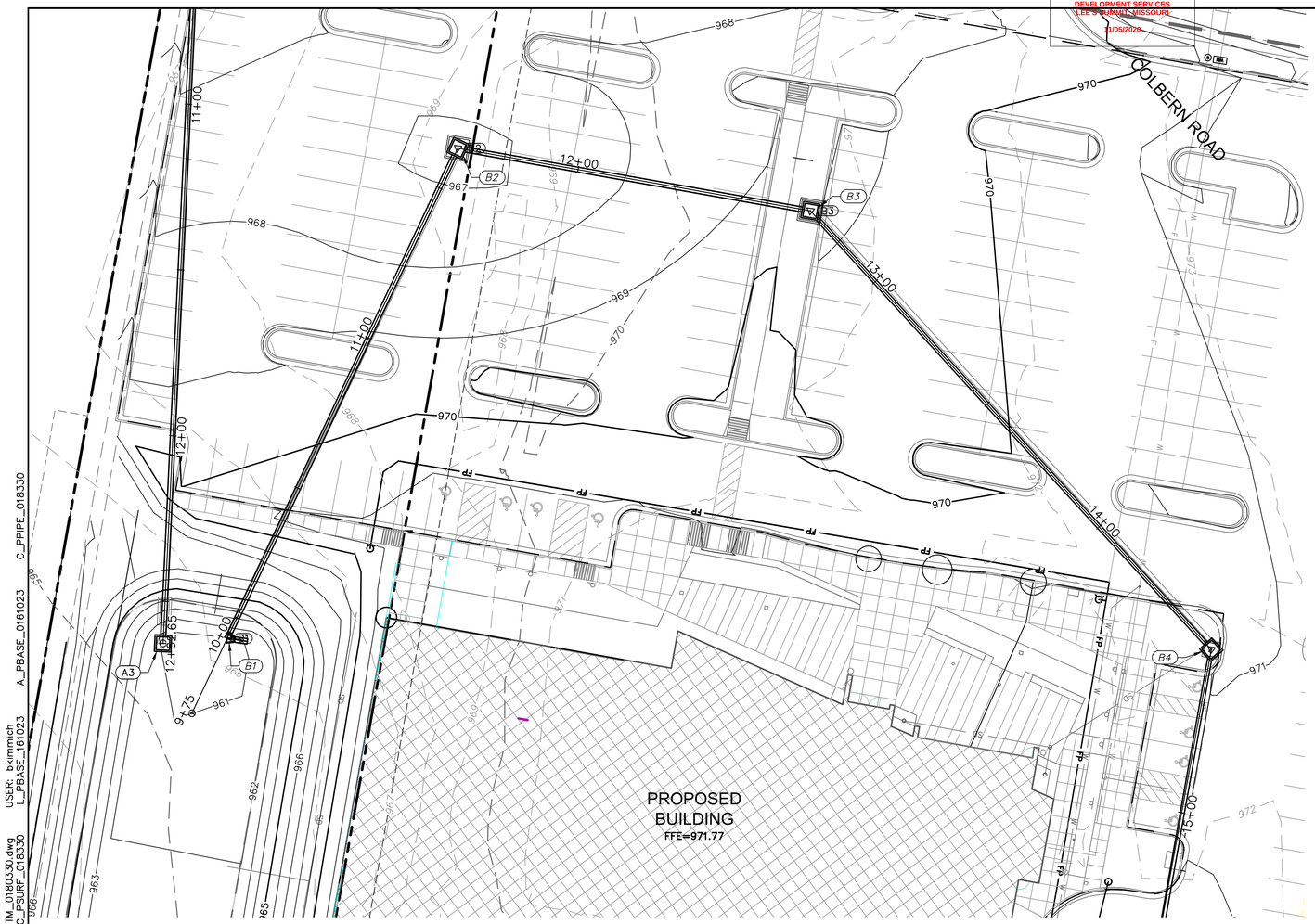
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**C7.0**
**STORM SEWER PLAN & PROFILE**

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LEE'S SUMMIT, MISSOURI
11/05/2020



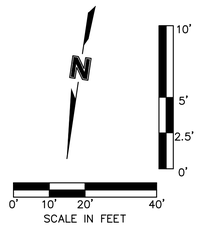

| STRUCTURES | |
|---|---|
| ID | DESCRIPTION |
| B1 | INSTALL X" DIA. HDPE END SECTION WITH CONCRETE TOEWALL<br>10+00, 0.08' RT<br>STORM LINE B<br>RIM= 961.97<br>INV IN = 960.47 (24" HDPE)<br>N: 1012353.416; E: 2829569.219 |
| B2 | INSTALL STD. 4'X4' GRATE INLET<br>11+63.18, 0.00'<br>STORM LINE B<br>RIM=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

## EXISTING CONDITIONS LEGEND

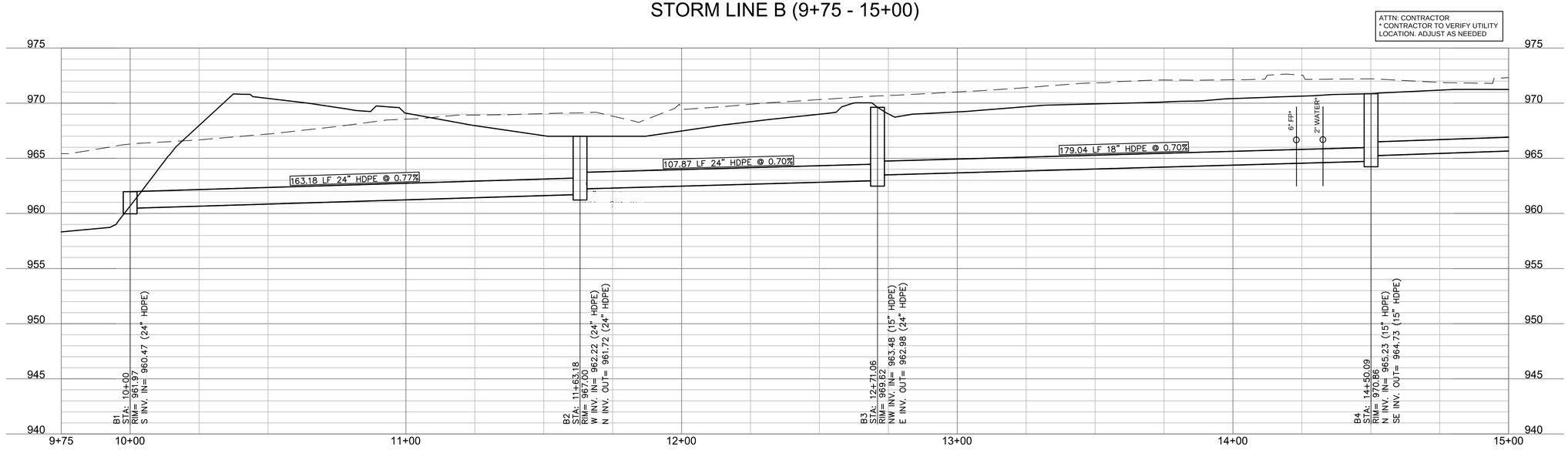
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## STORM LINE B (9+75 - 15+00)





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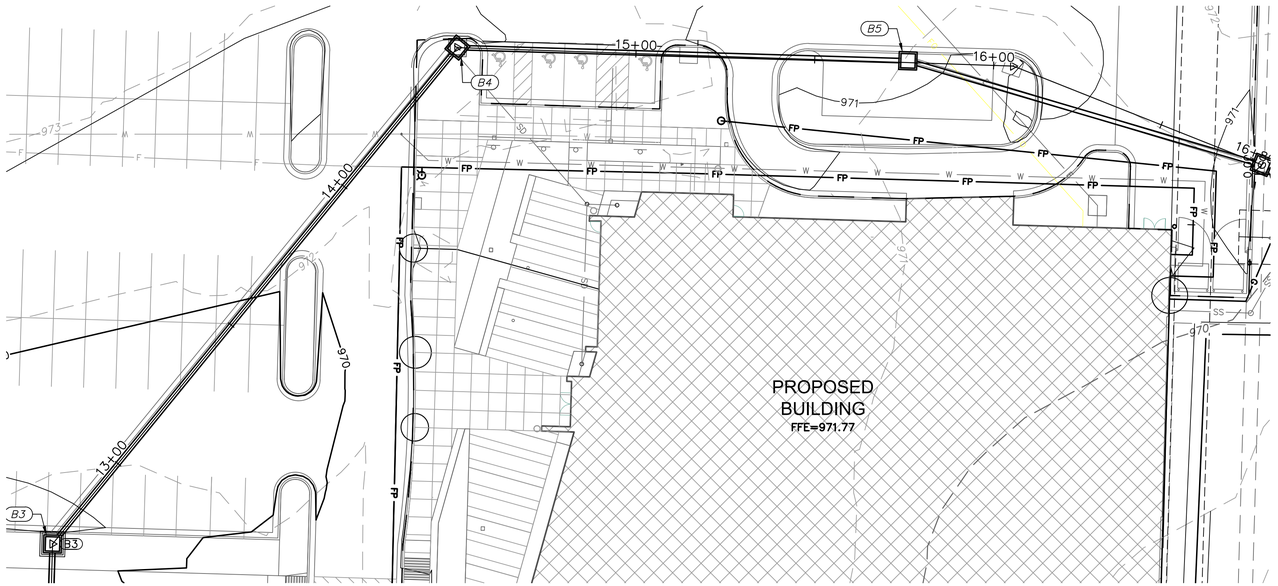
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USER: bkimmich

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




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

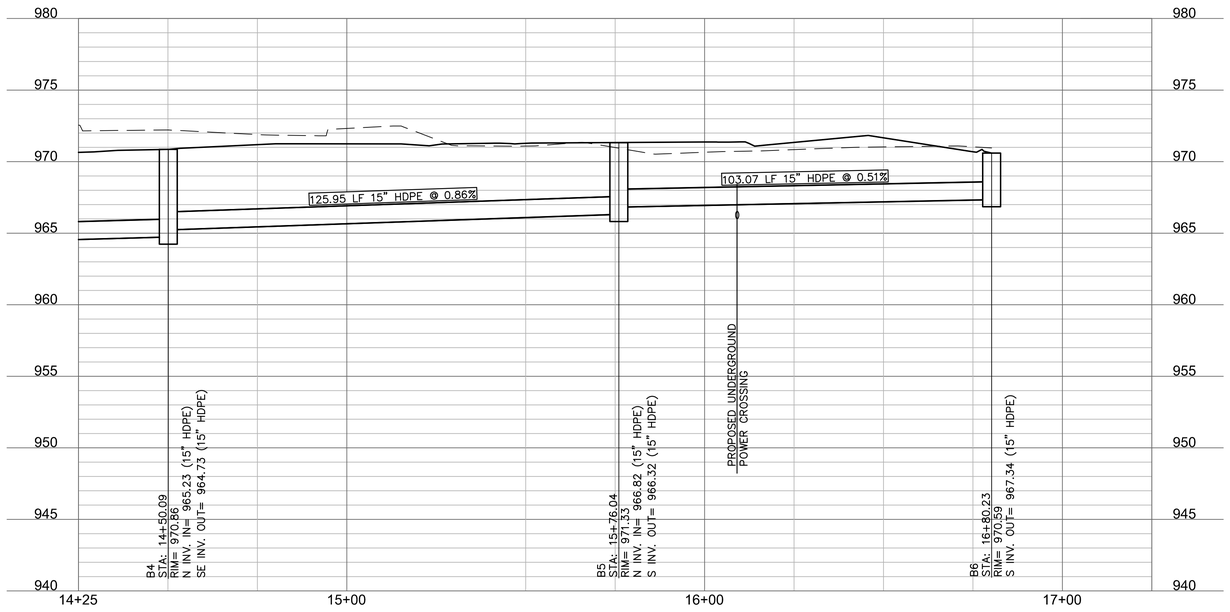
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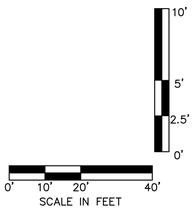
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- PROPOSED TURF DRAIN LINE
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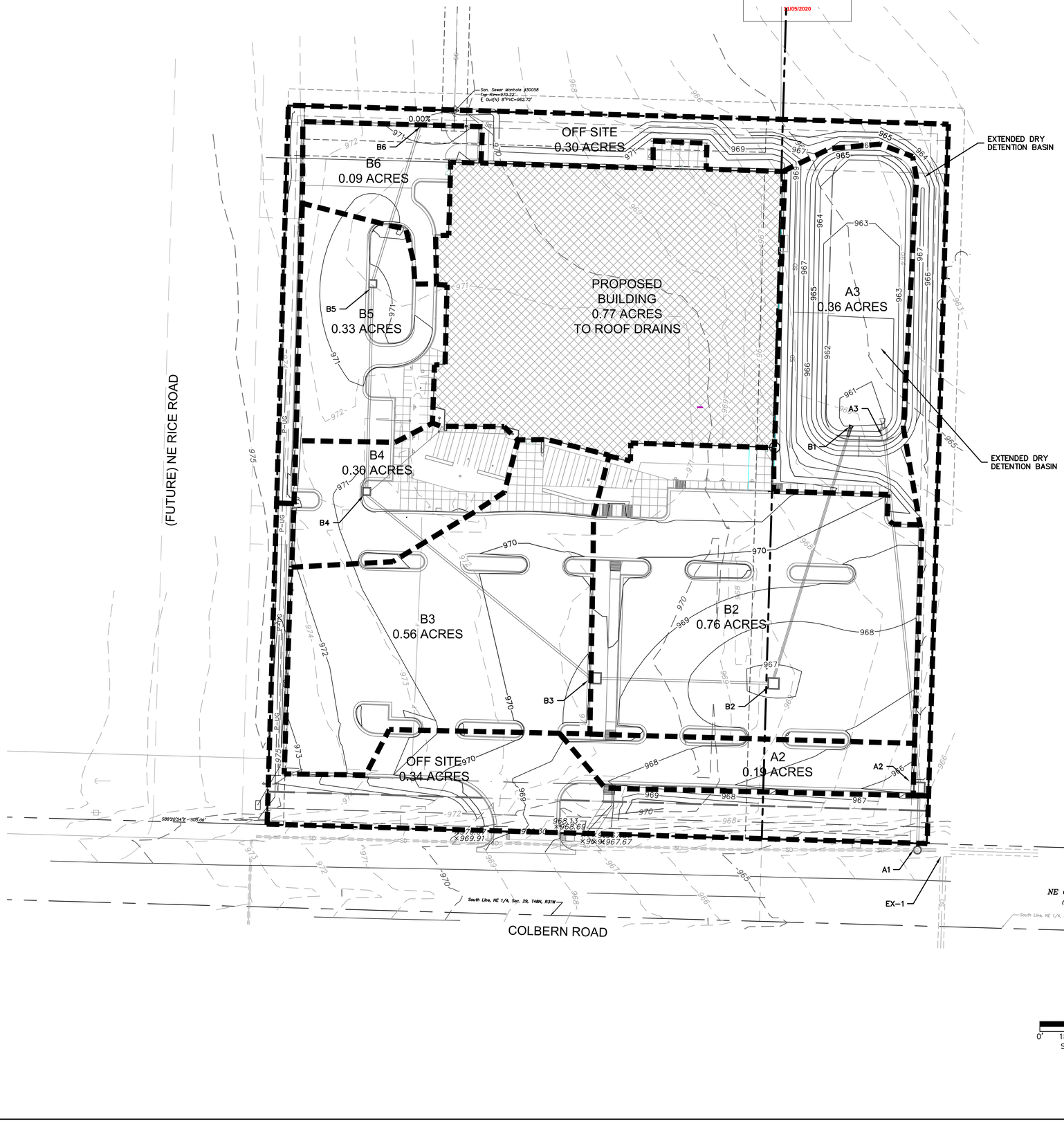
Drawing No.

# C7.2
**STORM SEWER PLAN & PROFILE**


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A_PBASE_0161023 C_PPIPE_018330

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/05/2020




DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 10\C_DRN_0180330.dwg USER: bkimmich
DATE: Feb 10, 2020 8:26am XREFS: c_TBLK_018330 C_PBASE_018330 C_XBASE_018330 C_PSURF_018330 L_PBASE_161023 A_PBASE_0161023

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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

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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**ISSUE FOR CITY REVIEW**
**02.10.2020**

| Project No. | Date | Drawn |
|---|---|---|
| B18-0330 | 02.05.20 | RLK |

Drawing No.

**C8.0**
**DRAINAGE PLAN**


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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020

## 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 | | | | | | | | | | | | |
| | 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 | 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 | | | | | | | | | | | | |
| | 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 | 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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JACKSON COUNTY

PACKAGE 10

Engineer of Record

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TERRY M. PARSONS
NUMBER PE-2018010505
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PROFESSIONAL ENGINEER

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**ISSUE FOR CITY REVIEW**
**02.10.2020**

| Project No. | Date | Drawn |
|---|---|---|
| B18-0330 | 02.05.20 | RLK |

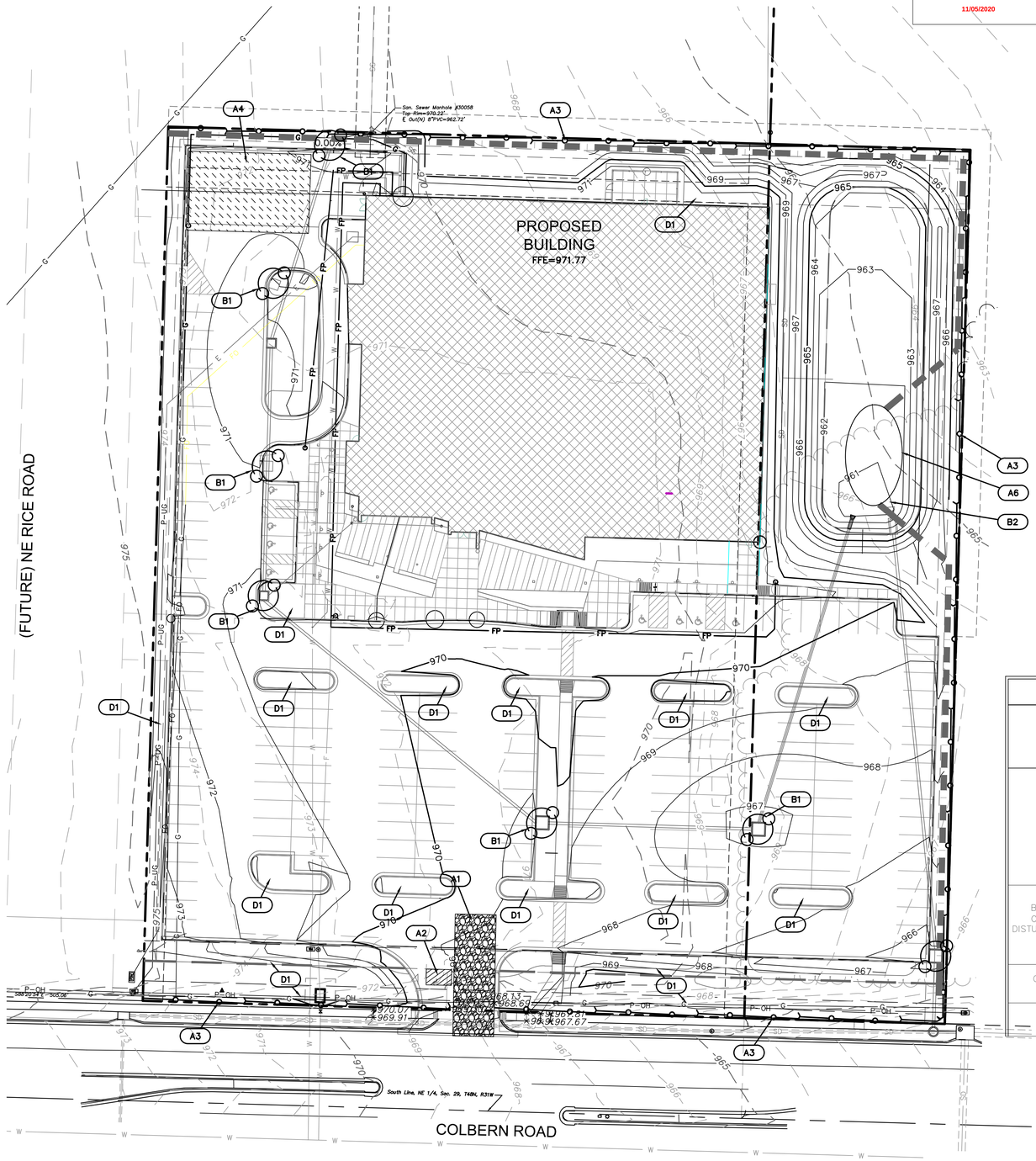
Drawing No.
**C8.1**
**DRAINAGE CALCULATIONS**


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DATE: Feb 10, 2020 8:26am XREFS: C_TBLK_018330 C_PBASE_018330 C_XBASE_018330 C_PSURF_018330 L_PBASE_161023 A_PBASE_0161023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




## 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
- 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

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 10\C-ERO_0180330.dwg USER: bkimmich
DATE: Feb 10, 2020 8:28am XREFS: C_TBLK_018330 C_PBASE_018330 C_XBASE_018330 C_PSURF_018330 L_PBASE_161023 A_PBASE_0161023


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Mid-Continent Public Library
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JACKSON COUNTY

PACKAGE 10

Engineer of Record

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TERRY M. PARSONS
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**ISSUE FOR CITY REVIEW**
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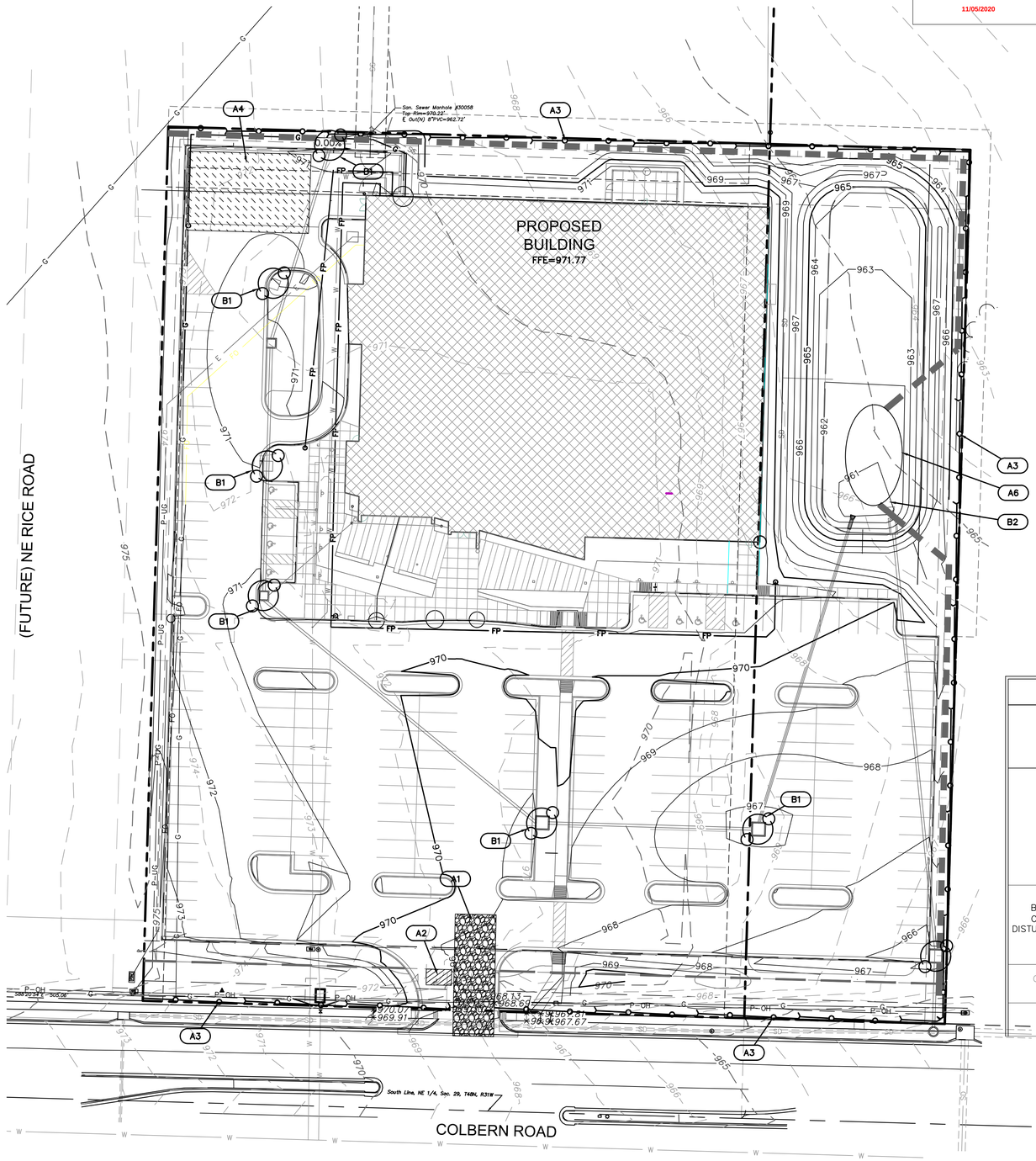
Drawing No.

# C9.0
**EROSION CONTROL PLAN - PRE CONSTRUCTION**


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11/05/2020




## 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 |
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| 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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Kansas City, MO 64108 816.300.0300


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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

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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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 |

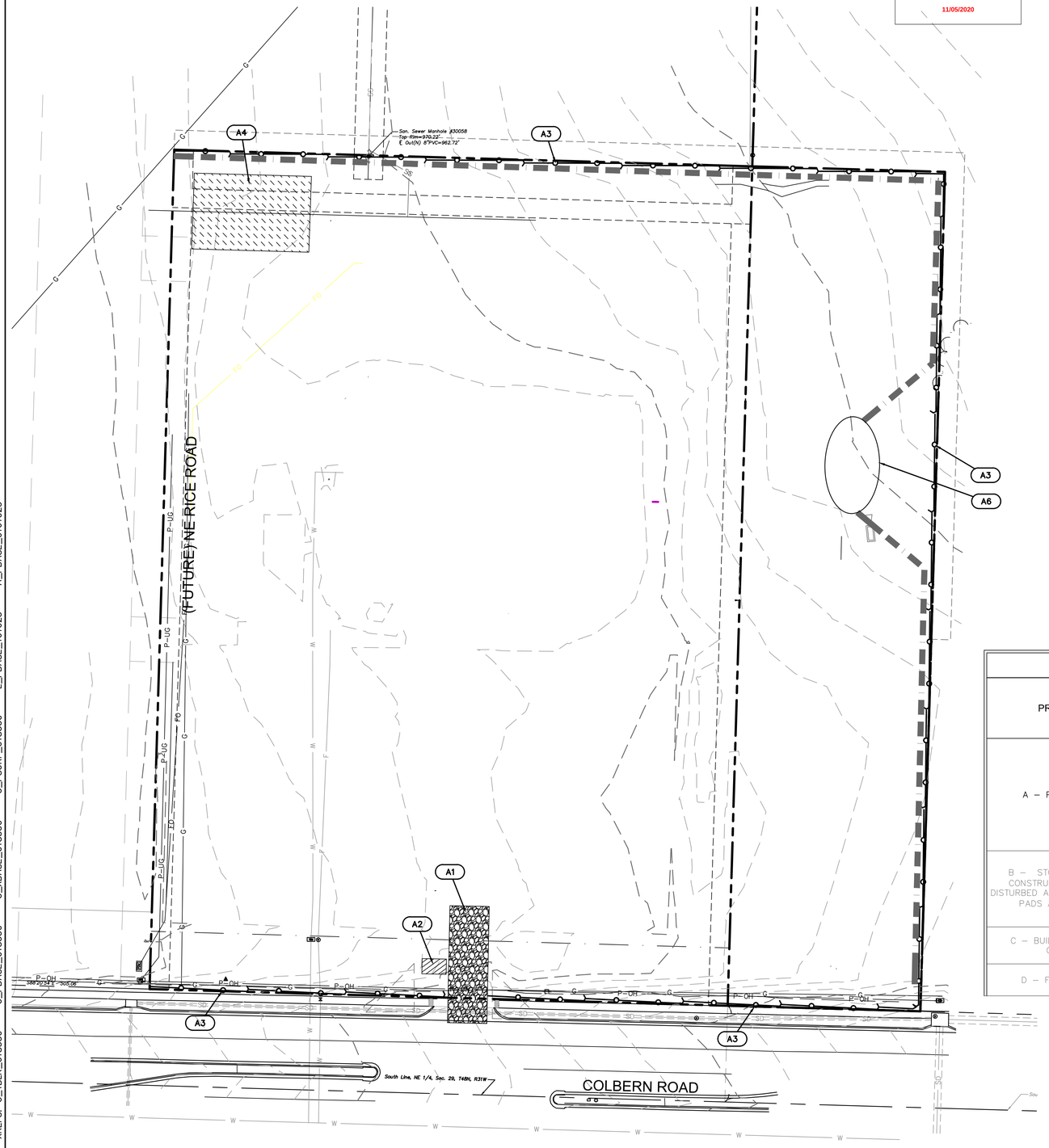
Drawing No.

# C9.1
**EROSION CONTROL PLAN - CONSTRUCTION**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




**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
- 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
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Drawing No.

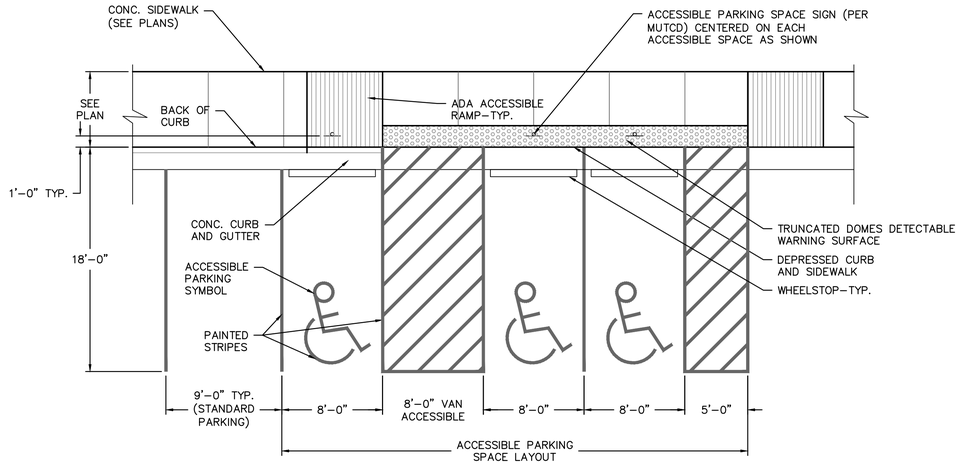
# C9.2
**EROSION CONTROL PLAN - POST CONSTRUCTION**


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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020

## NOTE

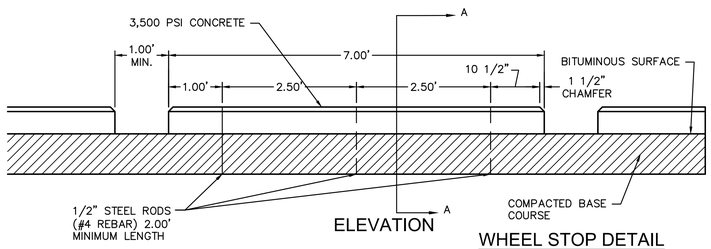
ACCESSIBLE PARKING SYMBOL AND SIGNAGE SHALL COMPLY WITH THE APPLICABLE RECOMMENDATIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).




## TYPICAL ADA PARKING SPACE LAYOUT DETAIL

## NOTE:

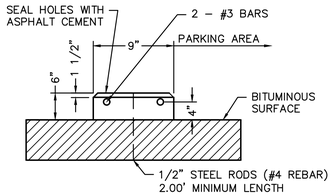
ANCHOR RODS TO BE SLEEVED OF GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.



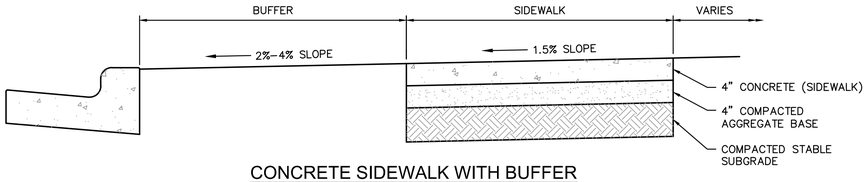

ELEVATION

## WHEEL STOP DETAIL

NOT TO SCALE




A-A



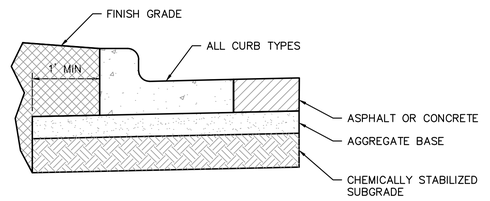

## CONCRETE SIDEWALK WITH BUFFER

NOT TO SCALE

GENERAL NOTES:

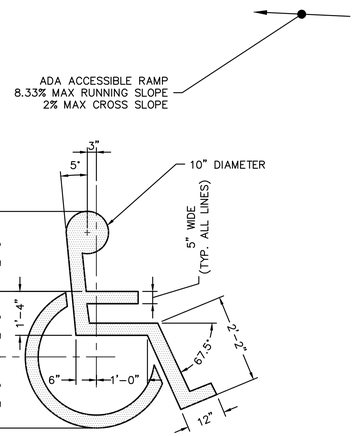
1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS OR AS APPROVED BY THE CITY INSPECTOR.
4. ALL SIDEWALKS SHALL MEET 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

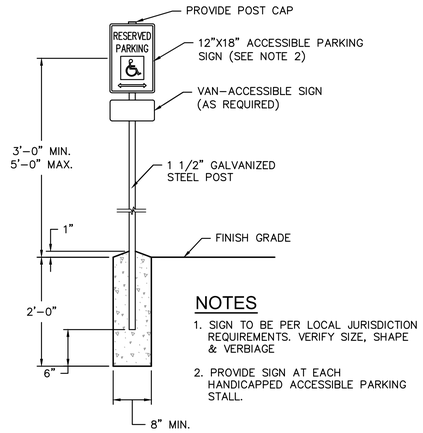
NOT TO SCALE




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

## ACCESSIBLE PARKING SYMBOL

NOT TO SCALE

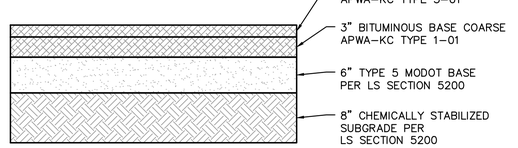



### NOTES

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

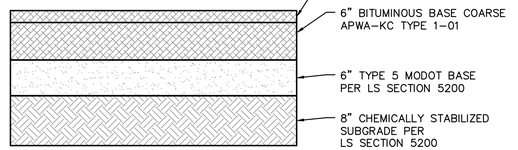
## ACCESSIBLE PARKING SPACE SIGNAGE

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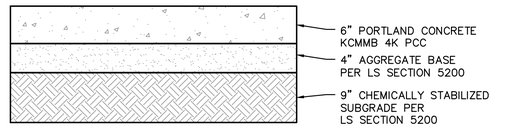

## ASPHALT PAVEMENT (LIGHT TRAFFIC) WITH AGGREGATE BASE SECTION

NOT TO SCALE



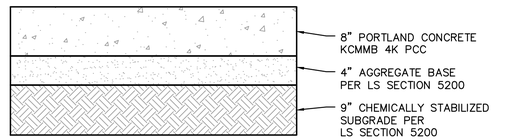

## ASPHALT PAVEMENT (HEAVY TRAFFIC) WITH AGGREGATE BASE SECTION

NOT TO SCALE




## PCC PAVEMENT SECTION

NOT TO SCALE




## COMMERCIAL DRIVE PAVEMENT SECTION

NOT TO SCALE

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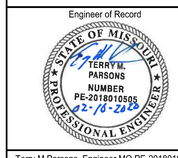
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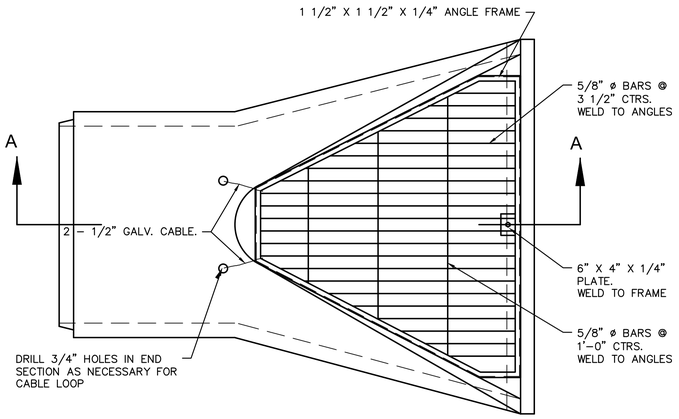
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**STANDARD DETAILS**

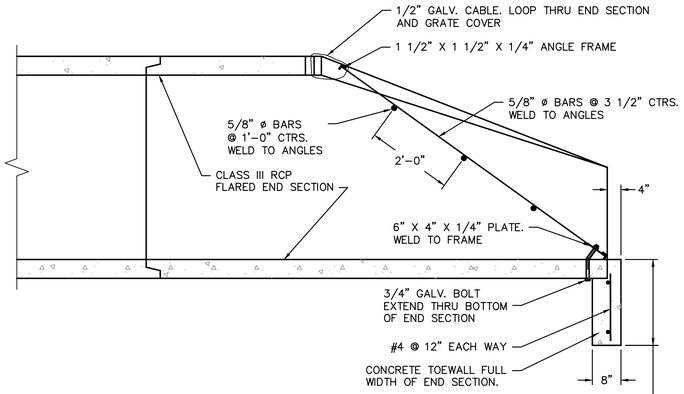
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




PLANVIEW

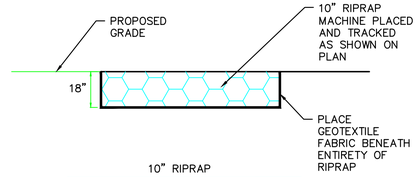



SECTION A-A

## 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.

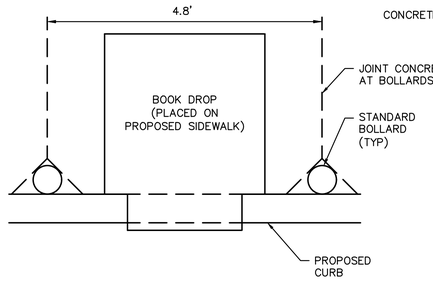
END SECTION TOE WALL WITH GRATE
NOT TO SCALE




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

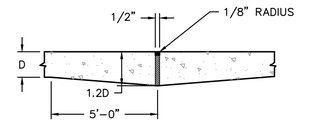



DROP BOX DETAIL
NOT TO SCALE



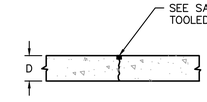

*NOTE:*
*WHEN PLACED IN PAVEMENT, TOP OF CONCRETE FOUNDATION SHALL BE PLACED BELOW NEW PAVEMENT WITH 1/2 ISOLATION JOINT & SEAL.*

BOLLARD DETAIL
NOT TO SCALE

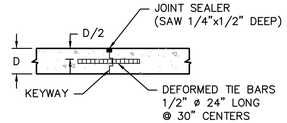



EXPANSION JOINT AT CONNECTION TO EXISTING PAVEMENT

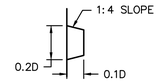
NOTE:
1. EXPANSION JOINTS TO BE USED IN ALL AREAS THAT CONCRETE PAVEMENT ABUTS BUILDING
2. 6X6X6 WELDED WIRE MESH IS TO BE USED IN ALL CONCRETE WALKS AROUND BUILDINGS.



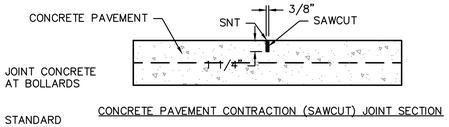

SAWED LONGITUDINAL OR TRANSVERSE




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



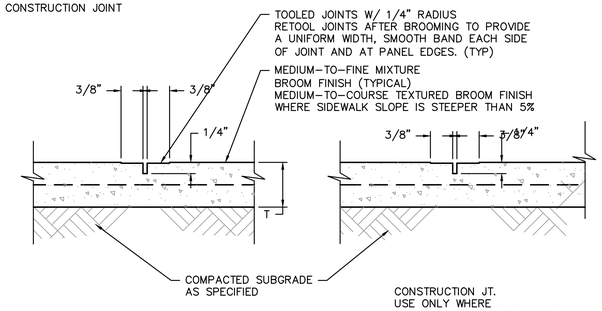

KEYWAYS FOR TYPE B AND F CONSTRUCTION JOINT



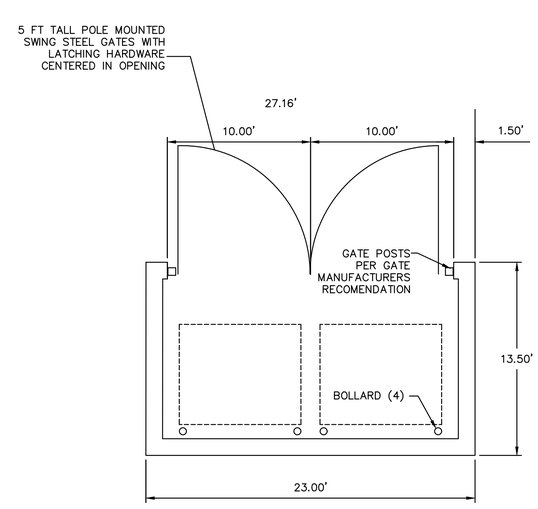

CONCRETE PAVEMENT CONTRACTION (SAWCUT) JOINT SECTION

SAWCUT JOINT

CONCRETE PAVING JOINT DETAILS
NOT TO SCALE

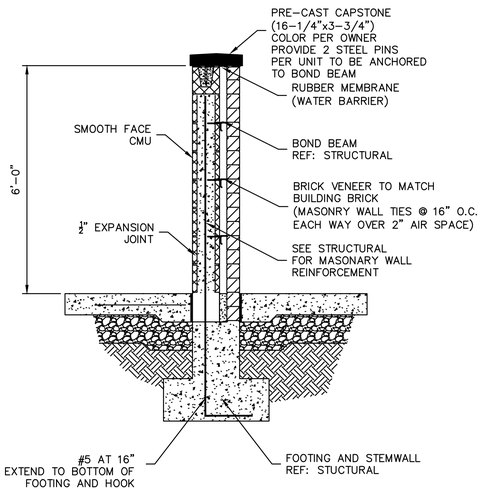



TOOLED JOINT




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

PLAN




TYPICAL WALL SECTION

SAPP DESIGN ARCHITECTS
3750 S. Fremont Ave.
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




Terry M Parsons, Engineer MO PE-2018010505

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com
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 |

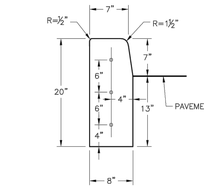
Drawing No. **C10.1**

**STANDARD DETAILS**

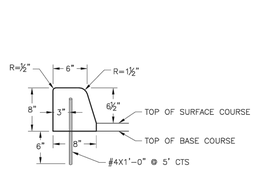
© Copyright 2018 - Sapp Design Associates, Architects, P.C.

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
DATE: Feb 10, 2020 9:32am XREFS: C_TBLK_018330 C_41S_XBASE_80330 C_41S_PBASE_80330 C_41S_PSURF_80330 L_PLBASE_61023 L_PBASE_61023 TE DETAIL C_PBASE_80330

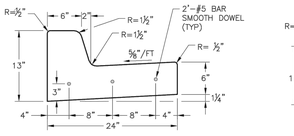
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



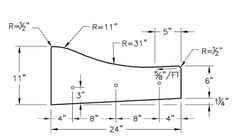

STRAIGHT CURB
(TYPE C-1)



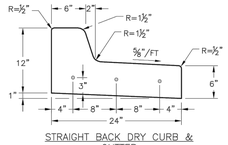

DOWELLED CURB
(TYPE DC)



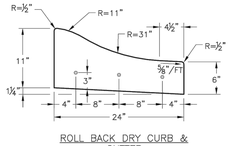

STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



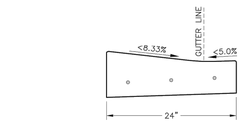

ROLL BACK CURB & GUTTER
(TYPE CG-2)



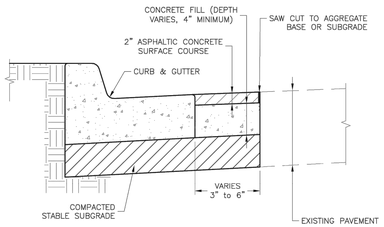

STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)




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 APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

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

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

Project:
Sheet Name:

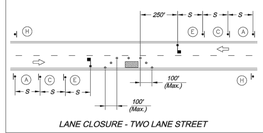
Drawn By: MJF
Checked By: DL
Date: 04/13
Proj. #:

GEN-4

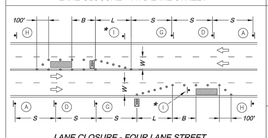
11/05/2020

SYMBOL LEGEND

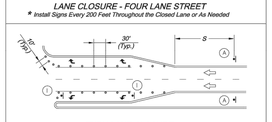
- Work Area
- Sign
- Barricade
- Direction of Travel
- Channelizer
- Arrow Panel
- Flagger




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

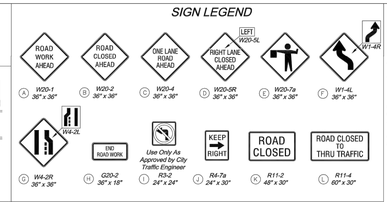
| Sign Spacing "S" | |
|---|---|
| Speed Limit (mph) | Spacing (Feet) |
| 25 | 100 |
| 30 - 35 | 250 |
| ≥ 40 | 350 |

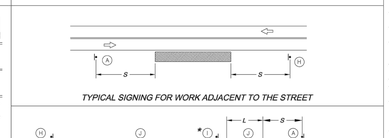
| Taper Dimensions (Feet) | | | | |
|---|---|---|---|---|
| Speed Limit (mph) | Minimum Taper Length "L" per Lane Width "W" | | | Minimum Number of Channelizers |
| | 10 | 11 | 12 | |
| 25 | 105 | 115 | 125 | 6 |
| 30 | 150 | 165 | 180 | 7 |
| 35 | 205 | 225 | 245 | 8 |
| 40 | 270 | 295 | 320 | 9 |
|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

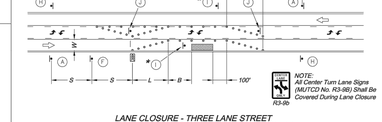
| Maximum Channelizer Spacing | | | |
|---|---|---|---|
| Speed Limit (mph) | Within Taper (Feet) | Outside Taper (Feet) | |
| 25 | 25 | 50 | |
| 30 | 30 | 60 | |
| 35 | 35 | 70 | |
| 40 | 40 | 80 | |
| 45 | 45 | 90 | |

SIGN LEGEND



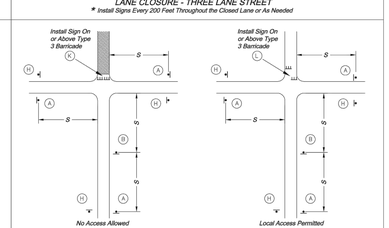




TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET




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

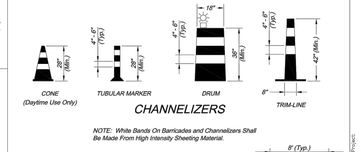
NOTE: All Center Turn Lane Signs (MUTCD No. R3-9B) Shall Be Covered During Lane Closure




TYPICAL STREET CLOSURE

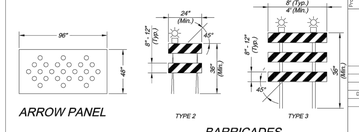
GENERAL NOTES:

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.

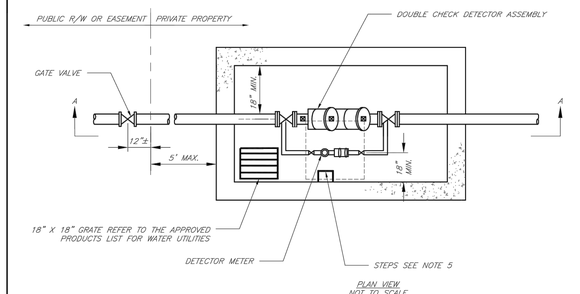



BARRICADES

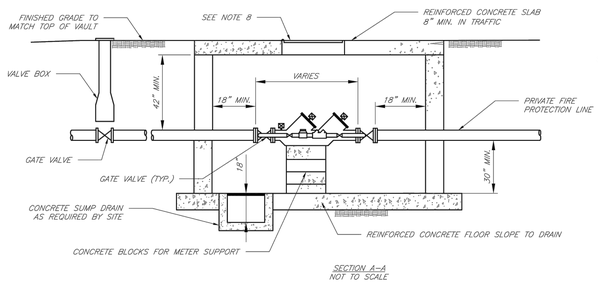
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Sheet Name: TRAFFIC CONTROL DETAILS
STANDARD DRAWING TC-1

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

« Of »
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.

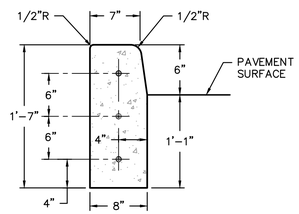
CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
LEE'S SUMMIT, MO

STANDARD DRAWINGS

Project:
Sheet Name: VAULT FOR DOUBLE CHECK DETECTOR CHECK

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

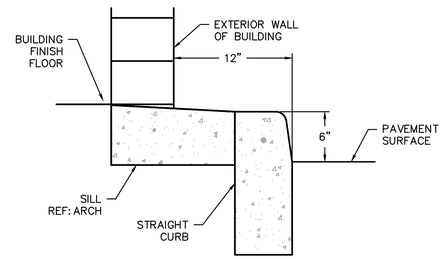
WAT-12




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
3750 S. Fremont Ave.
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




Terry M Parsons, Engineer MO PE-2018010505

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com
Olsson
Missouri State Certificate of Authority #001592

| Revision No. | Description | Date |
|---|---|---|

ISSUE FOR CITY REVIEW
02.10.2020

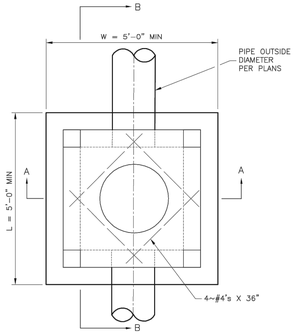
| Project No. | Date | Drawn |
|---|---|---|
| B18-0330 | 02.05.20 | RLK |

Drawing No.
**C10.2**
STANDARD DETAILS

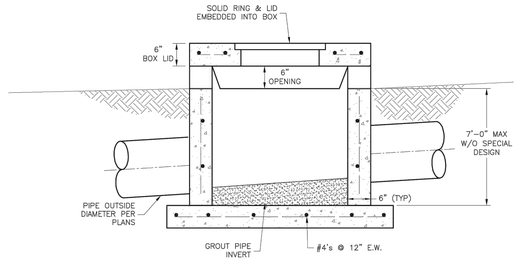
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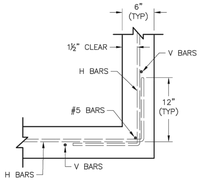
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020



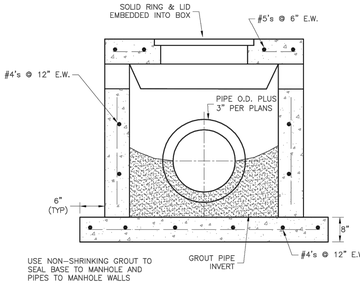

PLAN VIEW




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.

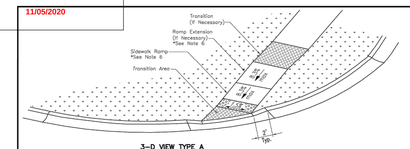
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

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

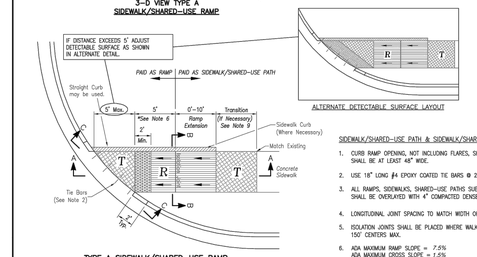
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Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-2

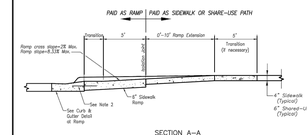



3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP

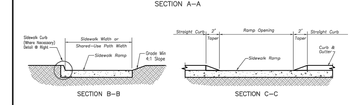



ALTERNATE DETECTABLE SURFACE LAYOUT

TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale

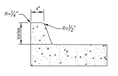



SECTION A-A

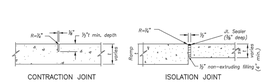



SECTION B-B SECTION C-C

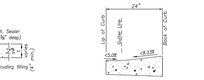
TYPE A & B SIDEWALK RAMP
Not to Scale




SIDEWALK CURB DETAIL
Not to Scale




CONTRACTION JOINT

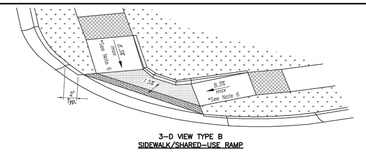



ISOLATION JOINT

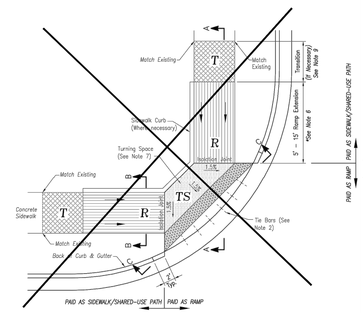
JOINT DETAILS
Not to Scale




CURB & GUTTER DETAIL AT RAMP
Not to Scale




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




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).

LEGEND

- SIDEWALK RAMP
- TURNING SPACE
- DETECTABLE WARNING SURFACE
- TRANSITION

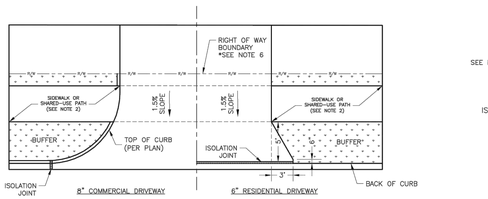
LEE'S SUMMIT MISSOURI
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STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

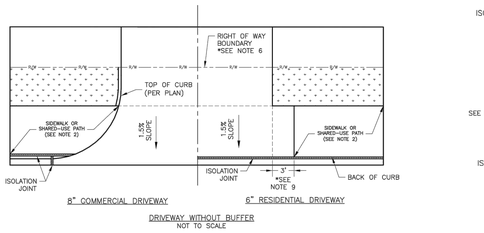
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Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

GEN-3A



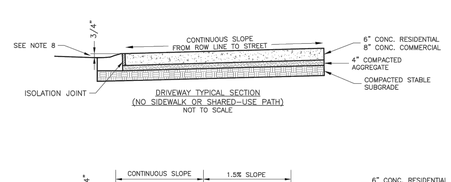

DRIVEWAY WITH BUFFER
NOT TO SCALE



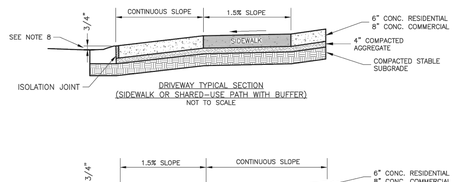

DRIVEWAY WITHOUT BUFFER
NOT TO SCALE

GENERAL NOTES

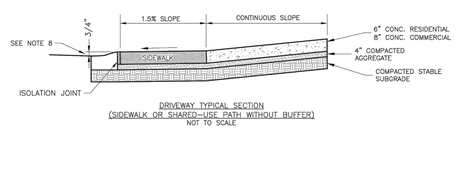
1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL).
3. JOINT 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

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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

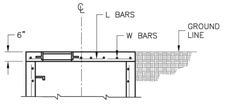
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Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

GEN-1




PLAN

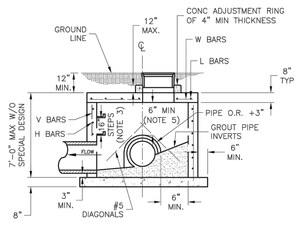



SLAB TOP ALTERNATE FOR JUNCTION BOX (SHALLOW)

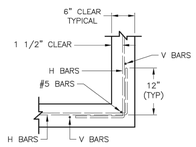
** INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

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.

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: JUNCTION BOX DETAIL

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

STM-3

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SAPP DESIGN ARCHITECTS
3750 S. Fremont Ave.
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

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

Terry M Parsons, Engineer MO PE-2018010505

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
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| Revision No. | Description | Date |
|---|---|---|

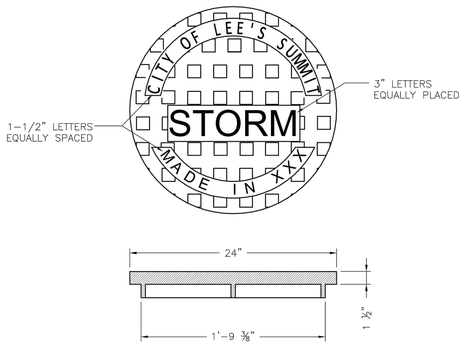
**ISSUE FOR CITY REVIEW**
**02.10.2020**

| Project No. | Date | Drawn |
|---|---|---|
| B18-0330 | 02.05.20 | RLK |

Drawing No.
# C10.3
**STANDARD DETAILS**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020



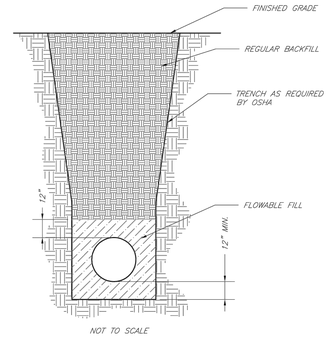

STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*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 — STM-6

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



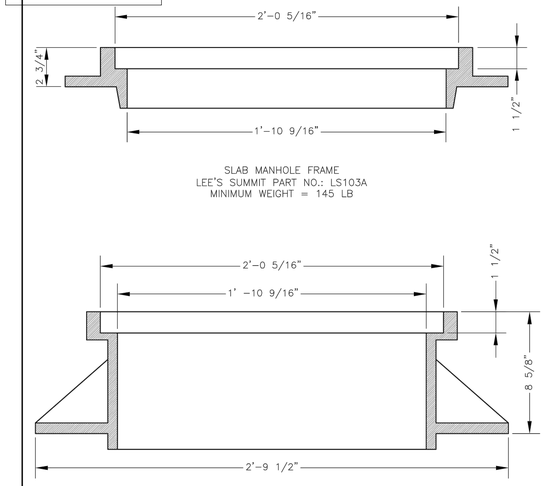

NOT TO SCALE

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".

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

TRENCH CHECK

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




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

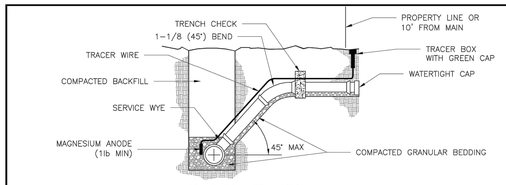
STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

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

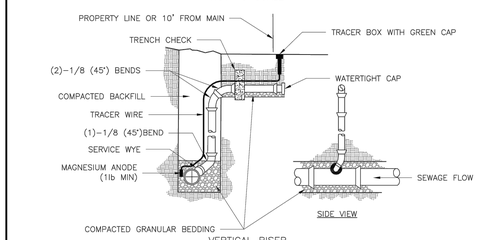
**LEE'S SUMMIT**
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE FRAME DETAIL — STM-7

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




STANDARD INSTALLATION
NOT TO SCALE



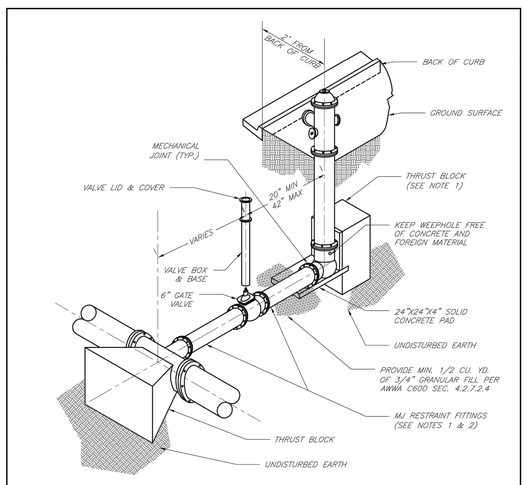

VERTICAL RISER
NOT TO SCALE

NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. 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 — SAN-1

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

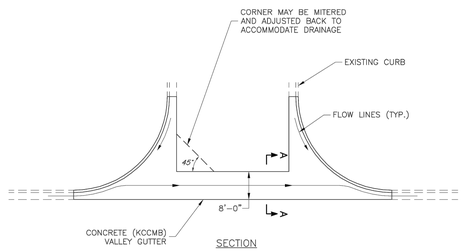



NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM 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.

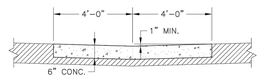
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PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HYDRANT INSTALLATION – STRAIGHT SET

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




SECTION



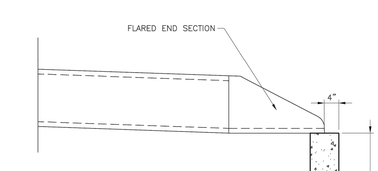

SECTION
Scale: 1" = 1'–0"

VALLEY GUTTER DETAIL
Intersection of Two Public Streets

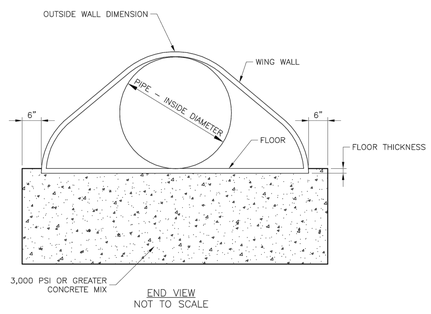
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VALLEY GUTTER DETAIL — GEN-7

Date: 04/17
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PLAN VIEW
NOT TO SCALE




END VIEW
NOT TO SCALE

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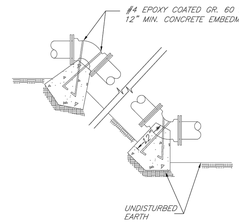
FLARED END SECTION SUPPORT DETAIL — STM-5

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

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.




**LEE'S SUMMIT**
MISSOURI
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VERTICAL THRUST BLOCKS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT–2
Rev: 1/14
Rev:


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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.


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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Missouri State Certificate of Authority #001592


| Revision No. | Description | Date |
|---|---|---|

**ISSUE FOR CITY REVIEW**
**02.10.2020**

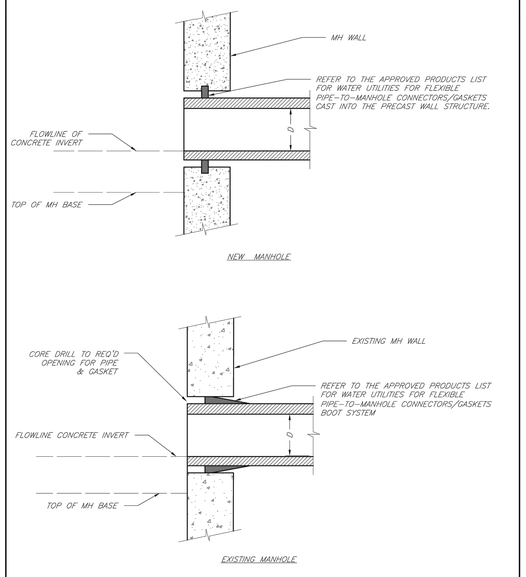
| Project No. | Date | Drawn |
|---|---|---|
| B18-0330 | 02.05.20 | RLK |

Drawing No.
**C10.4**
**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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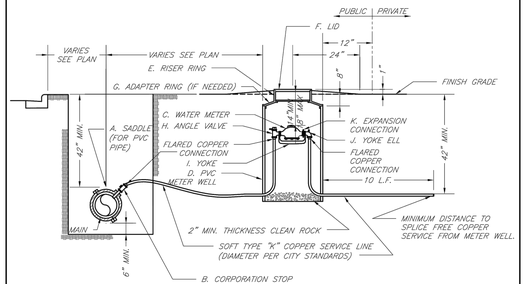
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




**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**
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SERVICE CONNECTION/METER WELL

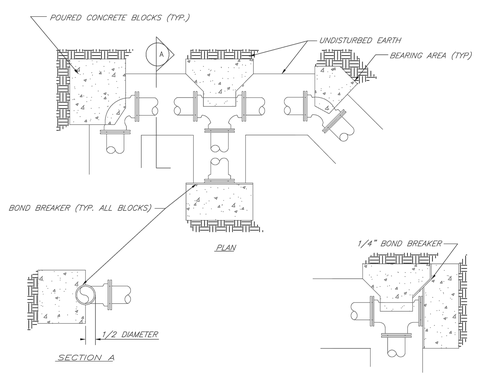
Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-11 | Rev: 1/14 | Rev:

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:

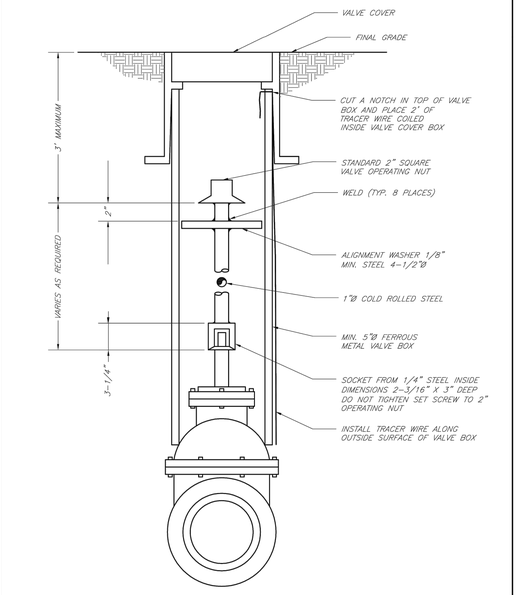
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.




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HORIZONTAL THRUST BLOCKS

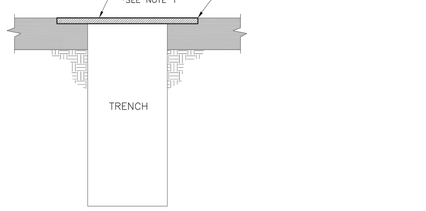
Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-1 | Rev: 1/14 | Rev:



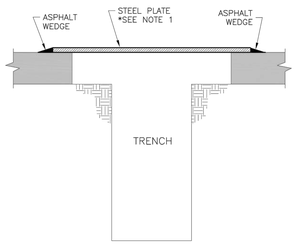

**LEE'S SUMMIT**
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PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

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)

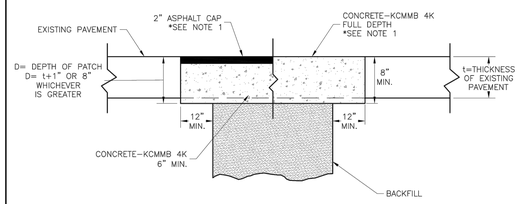
GENERAL NOTES:

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.

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TRENCHING PLATE DETAIL

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TRENCHING/PATCHING DETAIL
NOT TO SCALE

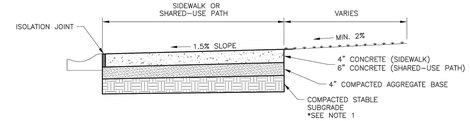
NOTE:

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

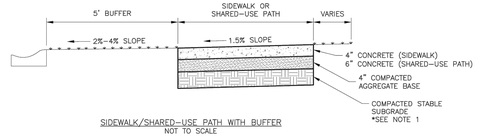
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TRENCHING/PATCHING ROADWAYS DETAIL

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.

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SIDEWALK/SHARED-USE PATH DETAIL

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


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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
**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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**ISSUE FOR CITY REVIEW**
**02.10.2020**

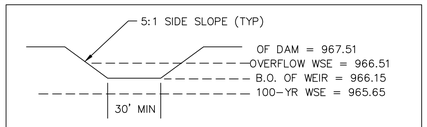
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|---|---|---|
| B18-0330 | 02.05.20 | RLK |

Drawing No. **C10.5**
**STANDARD DETAILS**

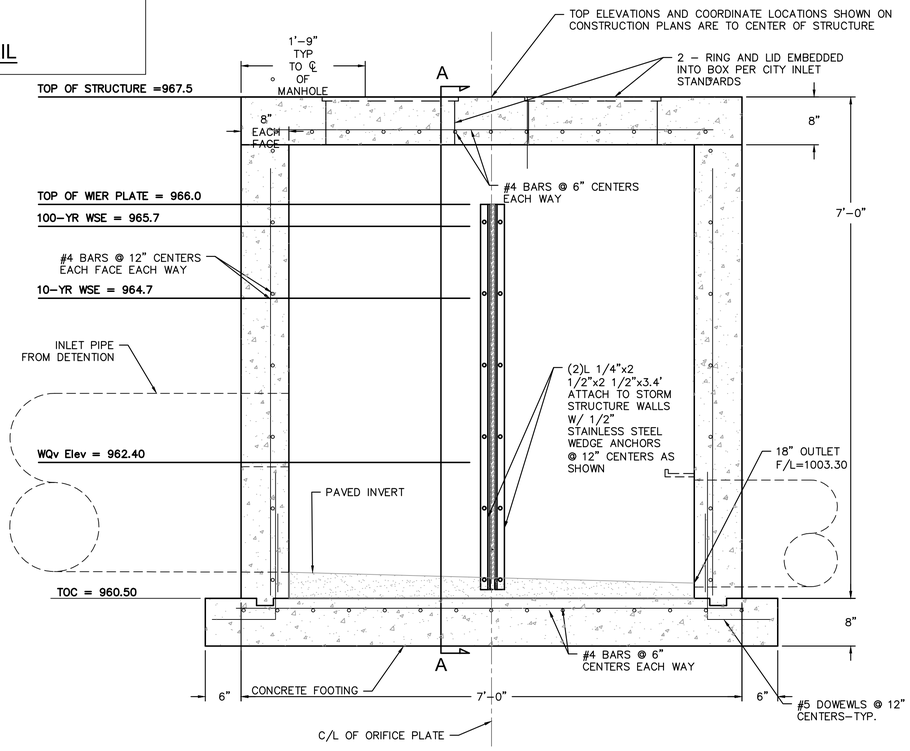
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




## EMERGENCY SPILLWAY DETAIL

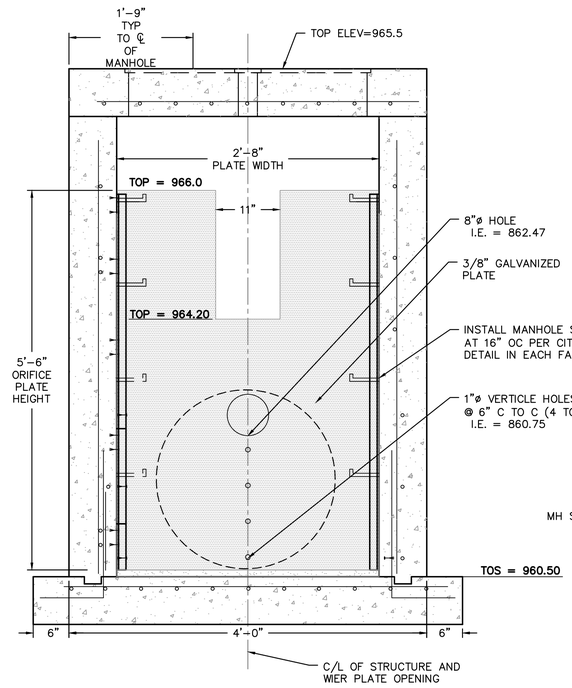



## CONTROL STRUCTURE DETAILS

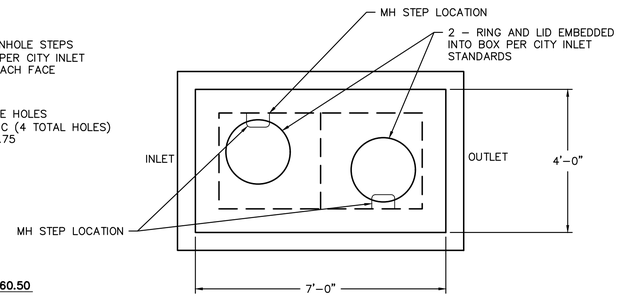
NOT TO SCALE

### 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.

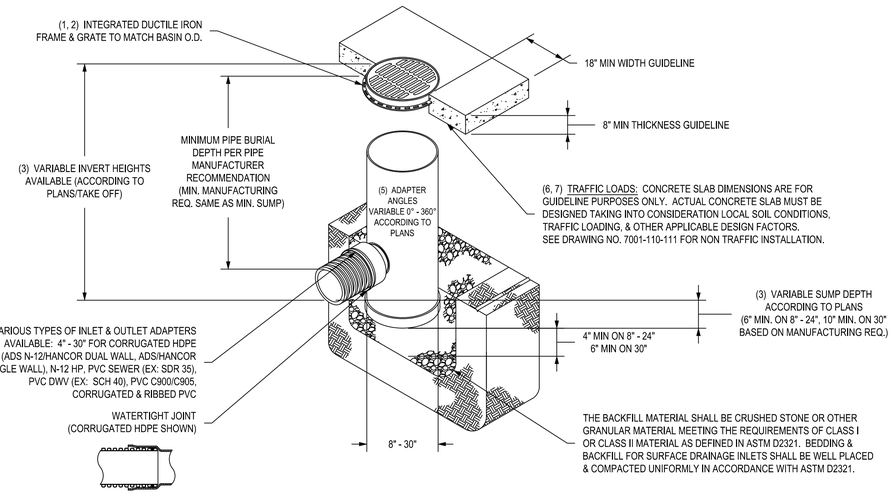



## SECTION A-A




## 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.

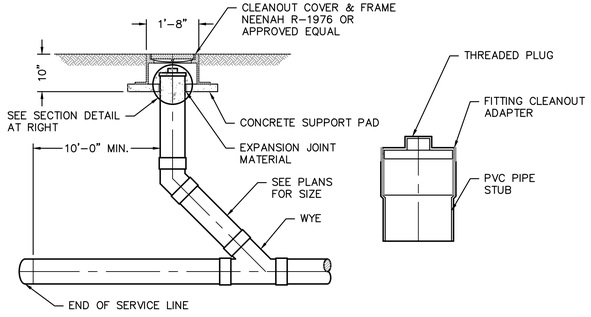
**MATERIALS**

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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Springfield, MO 65804 417.877.9600
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1629 Walnut
Kansas City, MO 64108 816.300.0300

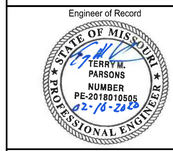
### SPECIAL NOTICES

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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
**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

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com
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 |

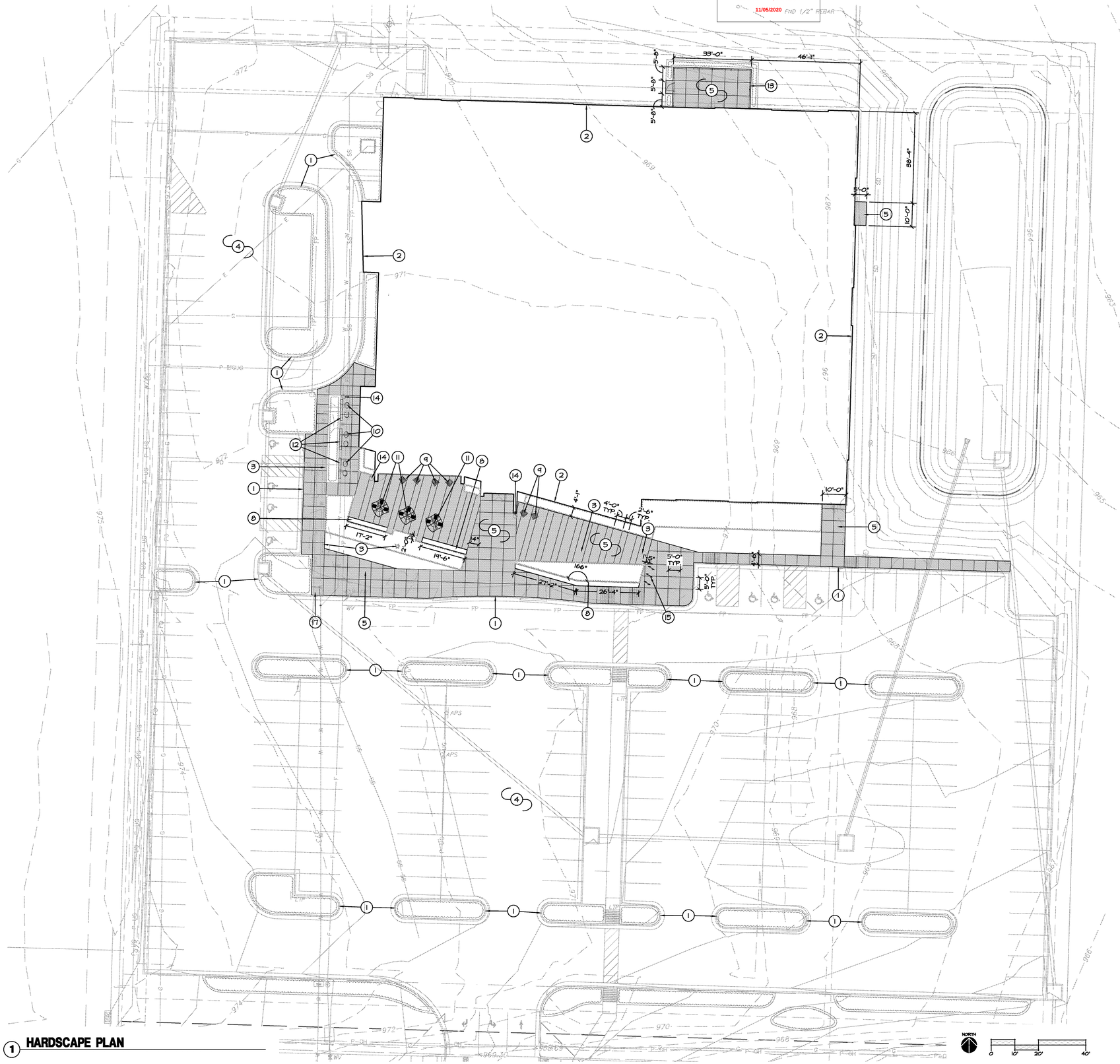
Drawing No. **C10.6**

**STANDARD DETAILS**

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C_4LS_PSURF_80330 L_PLBASE_61023 C_4LS_PBASE_80330

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020




1 **HARDSCAPE PLAN**

## GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S 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-WATERING 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

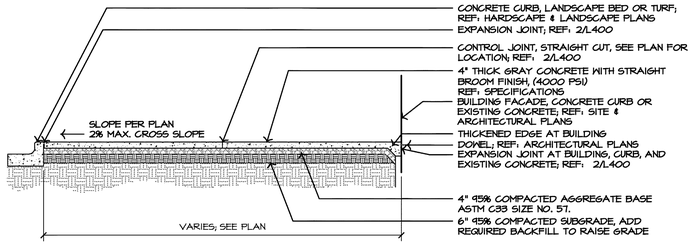

| Revision No. | Description | Date |
|---|---|---|

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

Drawing No.
**L200**
**HARDSCAPE PLAN**

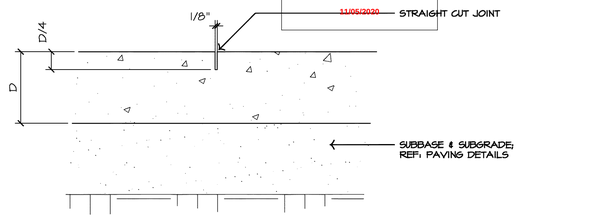
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020

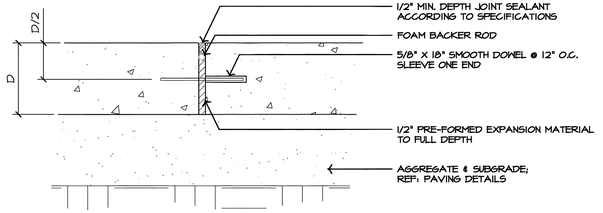



NOTES:
1. EXPANSION JOINTS SHALL BE PLACED AT RADIAL POINTS AND WHERE SIDEWALKS & PEDESTRIAN CONCRETE PAVING ABUTS CONCRETE CURB, DRIVEWAYS AND SIMILAR STRUCTURES. JOINTS TO BE PLACED AT INTERVALS WITH NOT MORE THAN 100' CENTERS.
2. THE PEDESTRIAN CONCRETE PAVING SURFACE SHALL BE MARKED OFF AS SHOWN 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

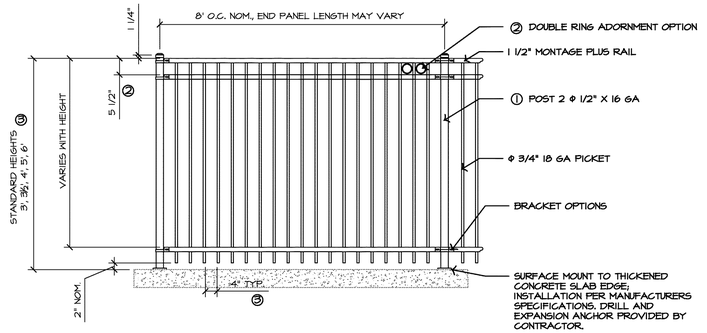



CONTROL JOINT DETAIL - STRAIGHT CUT

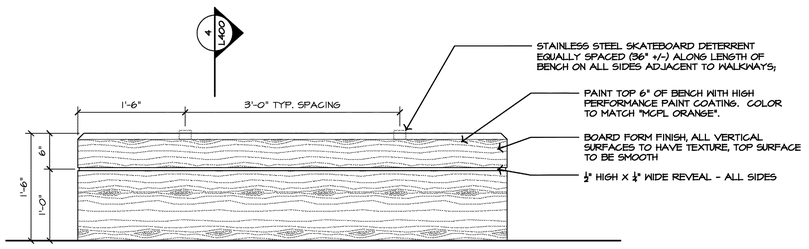



EXPANSION JOINT DETAIL

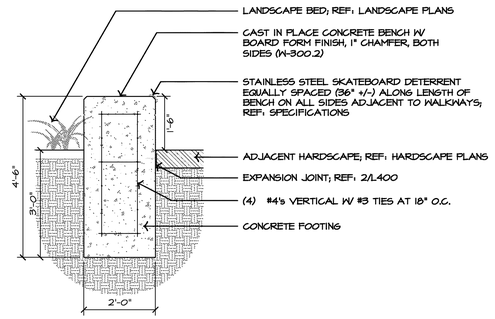
## 2 TYPICAL CONCRETE JOINTS



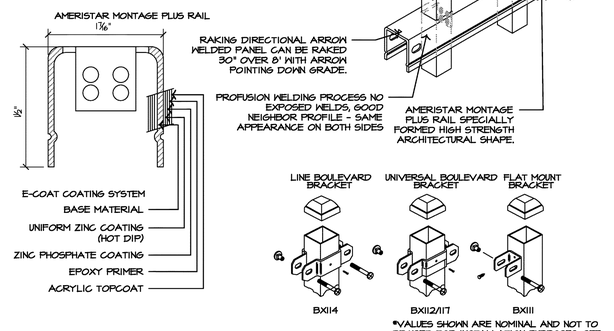

NOTES:
1) POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. SEE MONTAGE PLUS SPECIFICATIONS FOR POST SIZING CHART.
2) THIRD RAIL REQUIRED FOR DOUBLE RINGS.
3) AVAILABLE IN 3" AIR SPACE AND/OR FLUSH BOTTOM ON MOST HEIGHTS.
4) FOR LENGTHS BEING CUT SHORTER THAN 8', FOLLOW MANUFACTURER'S WARRANTY INSTRUCTIONS.




## 3 TYPICAL CAST IN PLACE CONCRETE BENCH ELEVATION




## 4 TYPICAL CAST IN PLACE CONCRETE BENCH SECTION




*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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1000 NE Colbern Road
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Jackson County

100% CD SET PACKAGE 10

STATE OF MISSOURI
KOREY P. SCHULZ
NUMBER A-LA-2002030605
REGISTERED LANDSCAPE ARCHITECT
12-23-19

ochsner hare + hare
the olsson studio

Ochsner Hare & Hare
Missouri State Certificate of Authority #2005000285

| Revision No. | Description | Date |
|---|---|---|

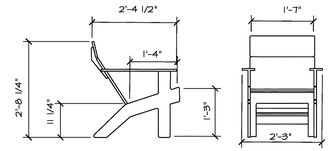
| Project No. | Date | Drawn |
|---|---|---|
| 016-1023 | 12/23/19 | TG |

Drawing No.
**L400**
**HARDSCAPE DETAILS**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




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

## 1 TYPICAL LOUNGE CHAIR - LOLLY TALL LOLLYGAGGER

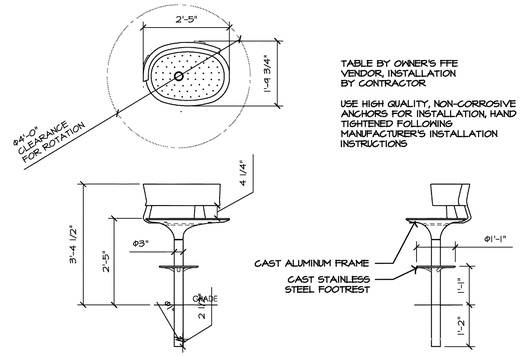



TABLE BY OWNER'S FFE VENDOR, INSTALLATION BY CONTRACTOR

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

## 2 TYPICAL TALL STOOL- LANDSCAPEFORMS BERNIE

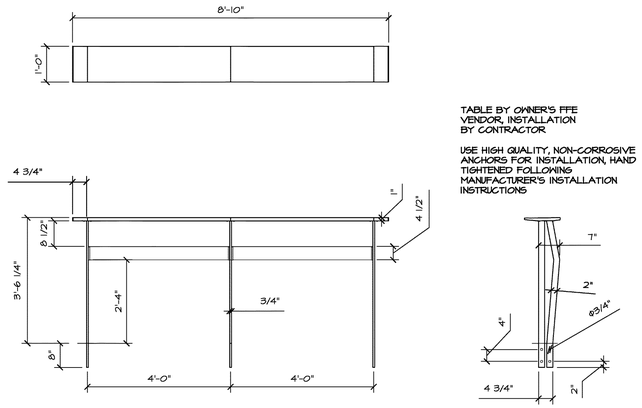



TABLE BY OWNER'S FFE VENDOR, INSTALLATION BY CONTRACTOR

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

## 3 TYPICAL TALL TABLE - LANDSCAPEFORMS JESSIE

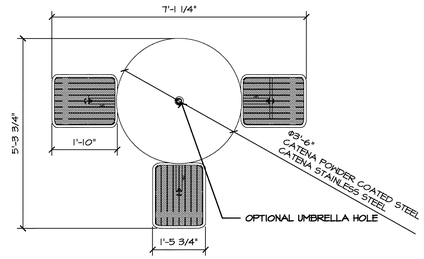
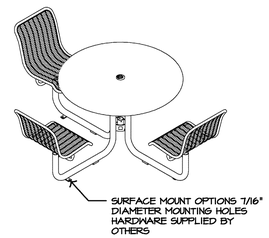
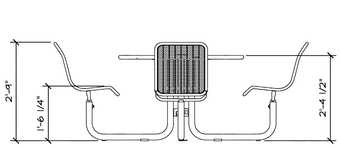


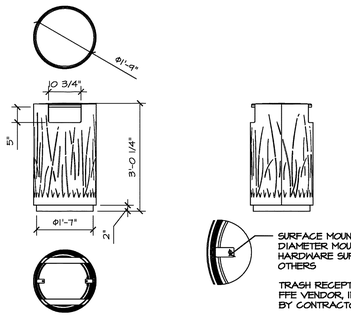

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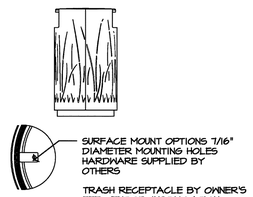
USE HIGH QUALITY, NON-CORROSIVE ANCHORS FOR INSTALLATION, HAND TIGHTENED FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS



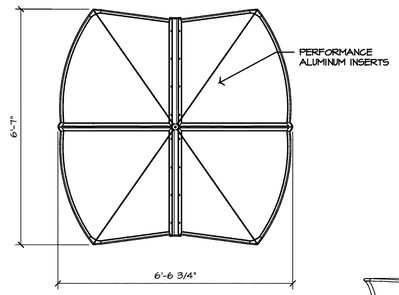



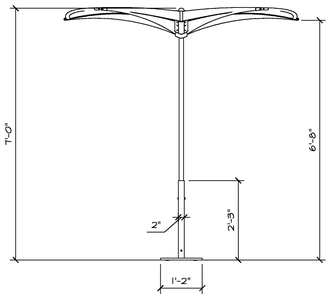

## 4 TYPICAL TABLE - LANDSCAPEFORMS CAROUSEL

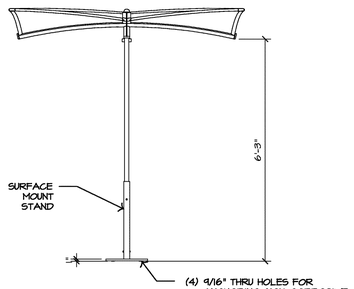



## 5 TYPICAL TRASH RECEPTACLE - LANDSCAPEFORMS LAKESIDE

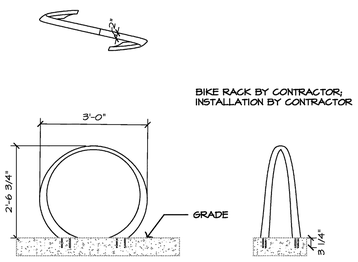



UMBRELLA BY OWNER'S FFE VENDOR, INSTALLATION BY CONTRACTOR

## 6 TYPICAL UMBRELLA - LANDSCAPEFORMS SHADE




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


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STATE OF MISSOURI
KOREY P SCHULZ
NUMBER A-2002030605
ARCHITECT
12-2019


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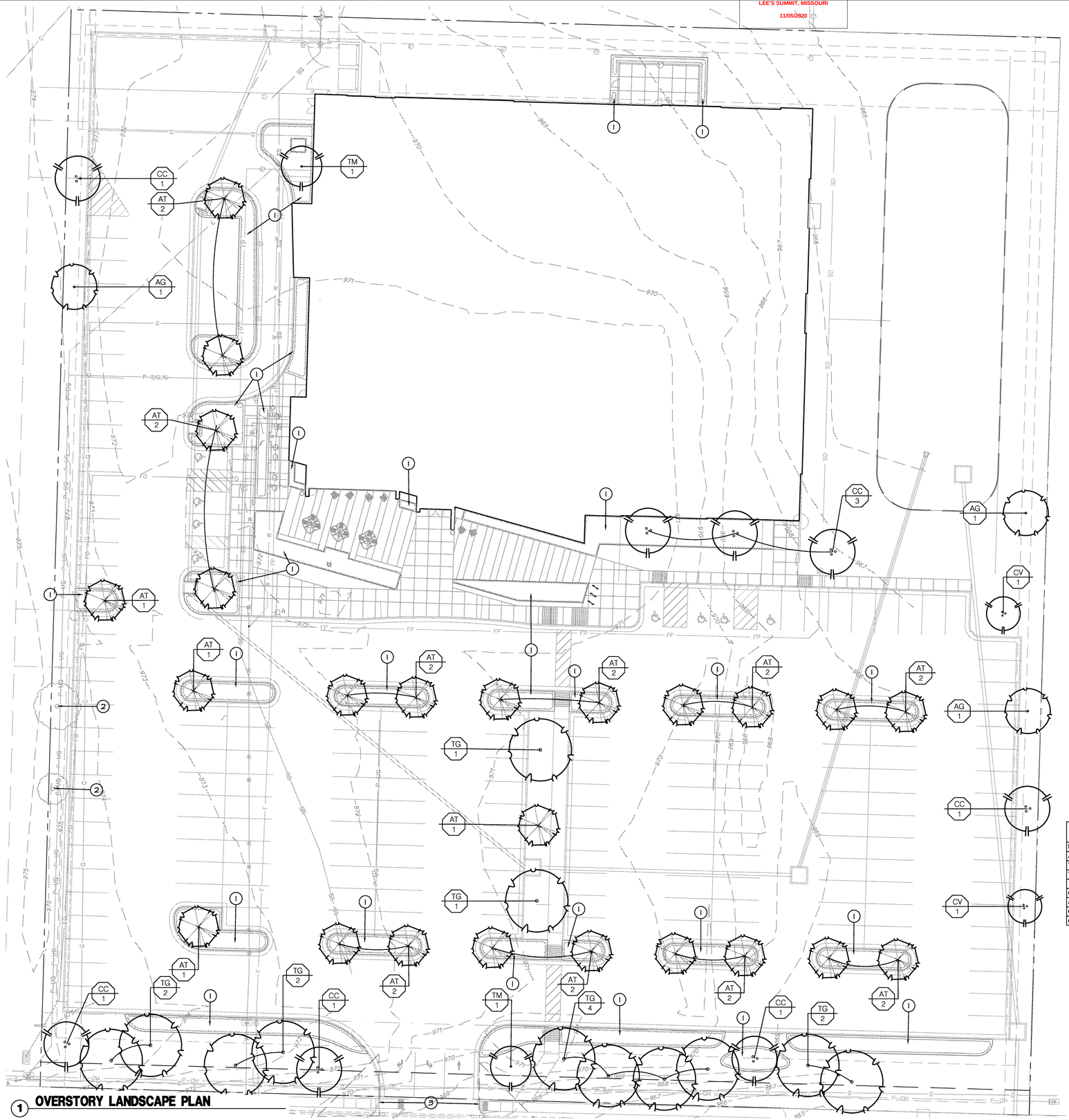

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Drawing No.
**L401**
HARDSCAPE DETAILS

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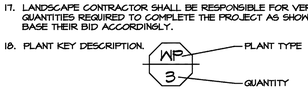
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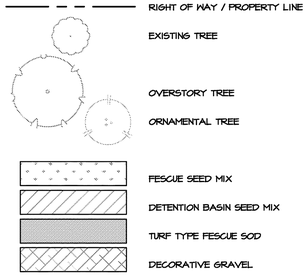

1 UNDERSTORY LANDSCAPE PLAN

# LANDSCAPE GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, MISSOURI IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE CITY SHALL BE APWA STANDARDS IN CURRENT USAGE UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES, DRAIN LINES AND IRRIGATION PIPING PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, DRAIN LINES AND IRRIGATION PIPING.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL FINAL GRADES WITH LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
4. DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE REMOVED AT FREQUENT INTERVALS. AT COMPLETION OF WORK IN EACH AREA, THE CONTRACTOR SHALL GATHER AND REMOVE ALL DEBRIS, EQUIPMENT, AND EXCESS MATERIAL FROM THAT AREA. AT FINAL COMPLETION OF ALL WORK HE SHALL REMOVE ALL SUCH ITEMS FROM THE PREMISES.
5. LOCATION AND PLACEMENT OF ALL PLANT MATERIAL SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
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:
   -ALL EVERGREEN SHRUBS AND CREEPING GROUNDCOVERS SHALL BE MINIMUM OF 2' FROM ANY PAVING EDGE.
   -ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED AND SITED FOR THE BEST AESTHETIC VIEWING.
   -ALL TREES, EVERGREEN OR DECIDUOUS, SHALL BE A MINIMUM OF 4' FROM ANY PAVING EDGE.
7. ANY SUBSTITUTION OF SPECIFIED PLANT MATERIAL WILL NOT BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
8. MULCH ALL PLANTING AREAS TO A DEPTH OF 3" DEPTH ACCORDING TO PLANS AND SPECIFICATIONS. SAMPLES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
9. ALL PLANT MATERIAL MILL BE HEALTHY, VIGOROUS AND FREE OF DISEASE AND INSECTS PER ANN STANDARDS. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY INFERIOR OR OTHERWISE UNSUITABLE PLANT MATERIAL PROPOSED FOR USE ON THE PROJECT.
10. ALL PLANTING BEDS NOT FULLY CONTAINED BY CONCRETE CURBS OR WALKS SHALL BE EDGED ACCORDING TO PLANS AND SPECIFICATIONS.
11. PLANTS AND LANDSCAPE MATERIALS SHALL BE INSTALLED AS DETAILED ON PLANS.
12. PLANT BACKFILL FOR TREES AND SHRUBS SHALL BE PER SPECIFICATIONS.
13. ALL PLANTING BEDS SHALL BE TREATED WITH DACTHAL PRE-EMERSENT HERBICIDE AT MANUFACTURER RECOMMENDED RATES AND SHALL BE COVERED WITH SPECIFIED MULCH APPLICATION. APPLY LIGHTER APPLICATION OF DACTHAL HERBICIDE TO TOP OF MULCH LAYER.
14. ALL AREAS DISTURBED DURING CONSTRUCTION THAT ARE NOT DESIGNATED AS PLANTING BEDS OR PAVEMENT AREAS SHALL BE SEEDED WITH A TURF TYPE TALL FESCUE PER SPECIFICATIONS.
15. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER OWNER'S FINAL ACCEPTANCE OF FINISHED JOB. ALL DEAD AND DAMAGED PLANT MATERIAL SHALL BE REPLACED BY LANDSCAPE CONTRACTOR AT THEIR EXPENSE. LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANT MATERIAL UNTIL FINAL ACCEPTANCE.
16. ALL LANDSCAPE BEDS SHALL BE MOUNDED AS SHOWN ON PLANS AND DETAILS.
17. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL PLANT QUANTITIES REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS, AND BASE THEIR BID ACCORDINGLY.
18. PLANT KEY DESCRIPTION.




# 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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Jackson County

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


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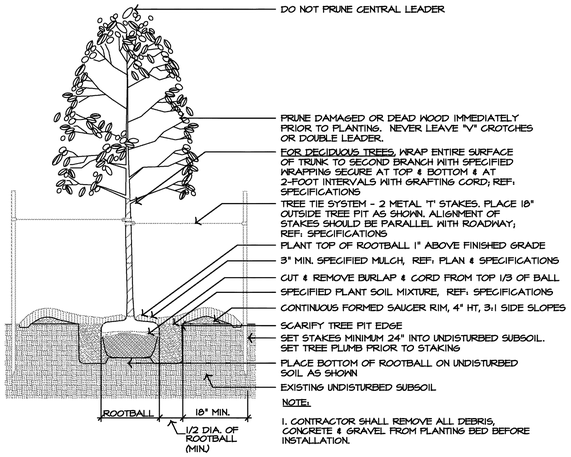
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**UNDERSTORY LANDSCAPE PLAN**

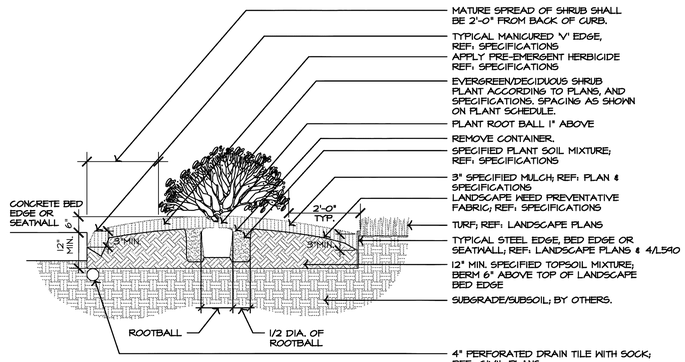
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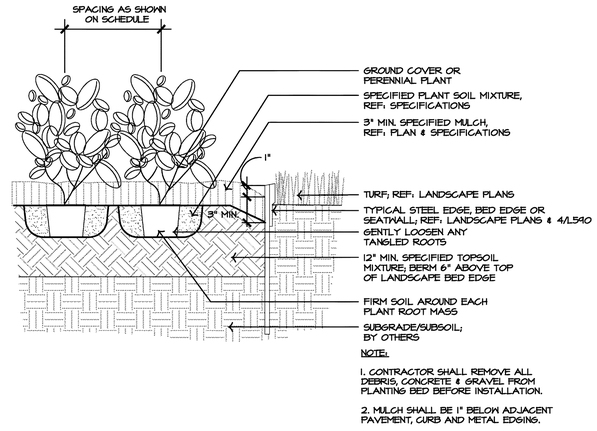
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## 1 TYPICAL DECIDUOUS TREE PLANTING




## 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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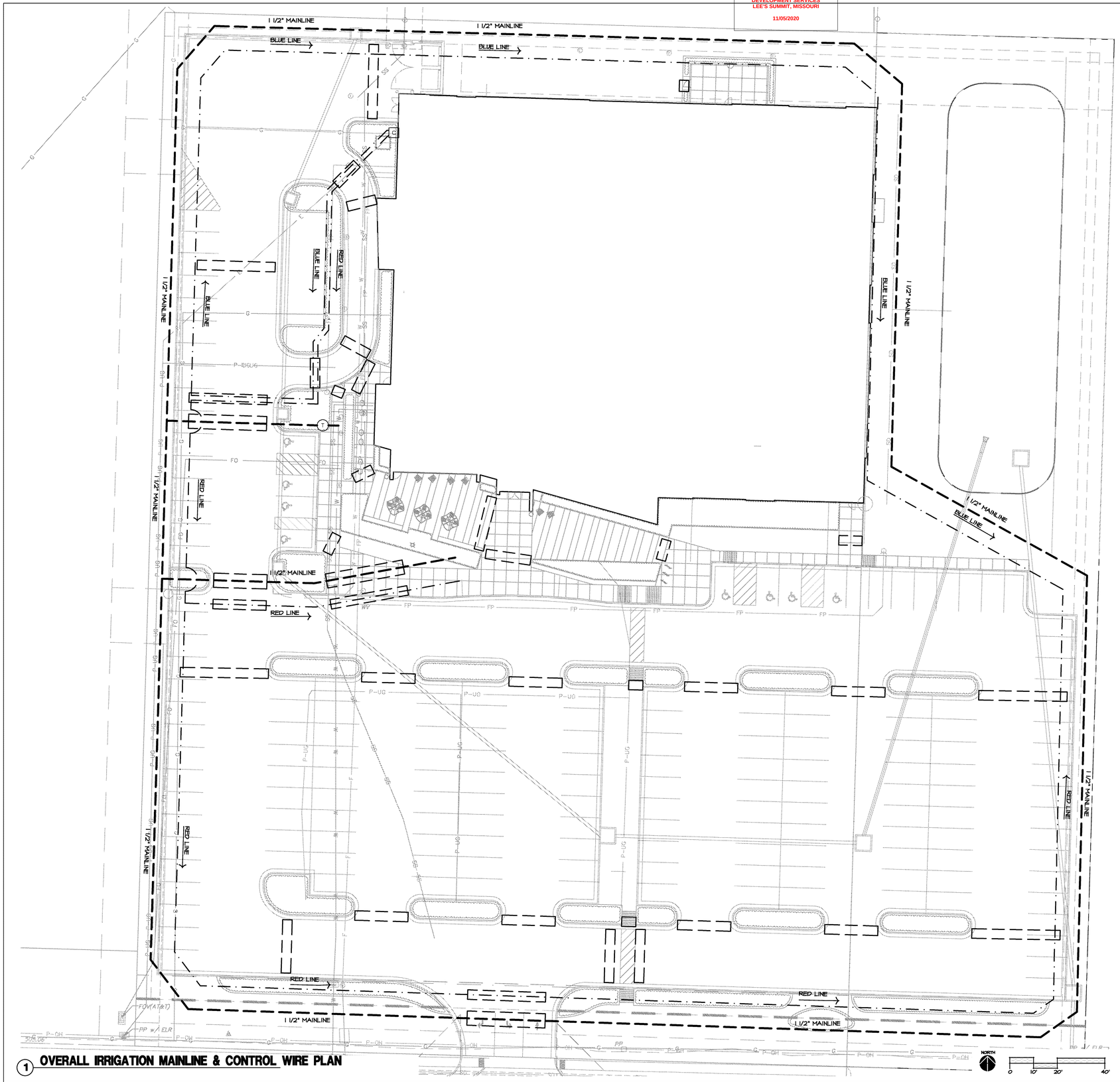
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**LANDSCAPE DETIALS**


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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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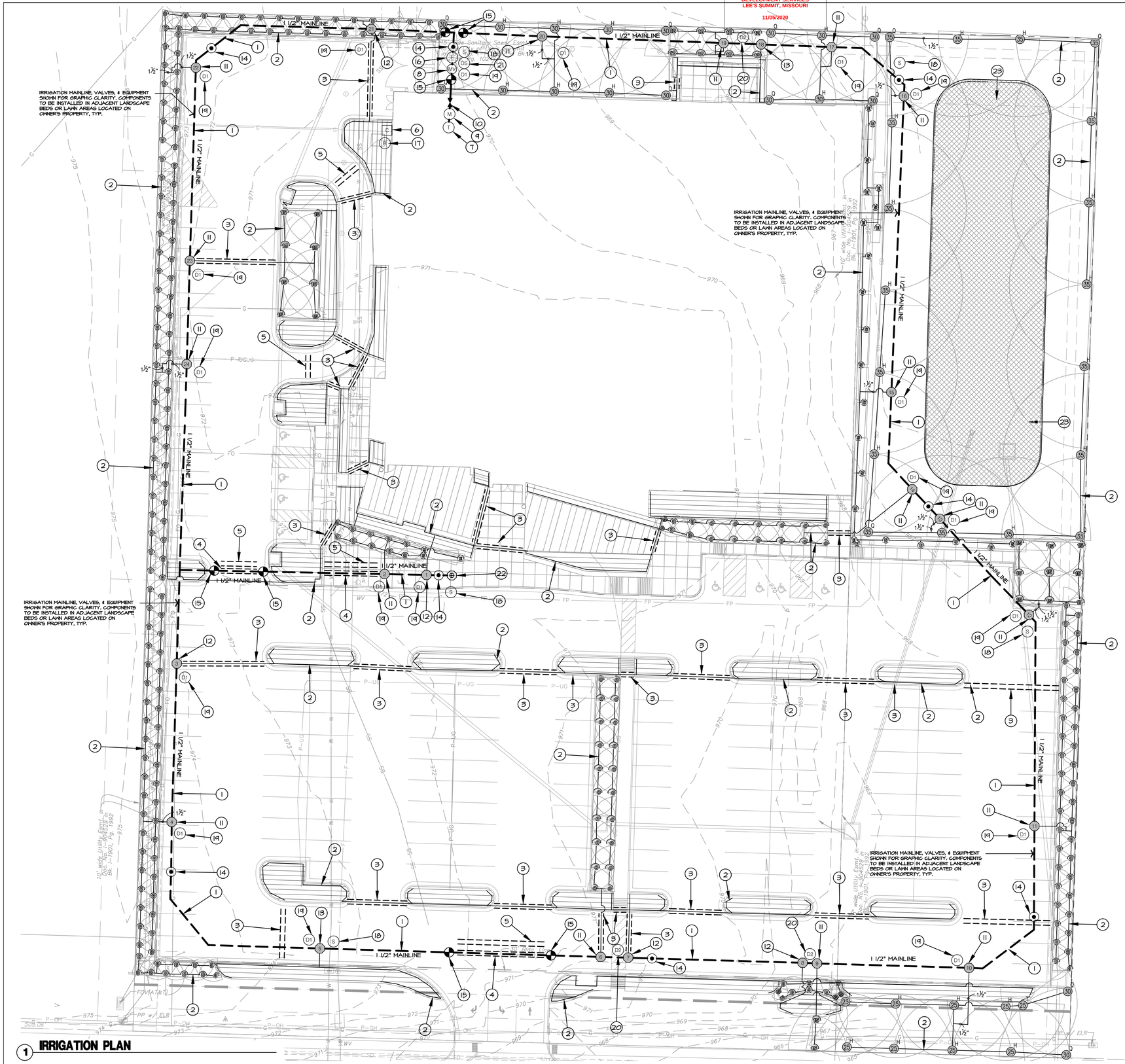
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OVERALL IRRIGATION MAINLINE & CONTROL WIRE PLAN


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


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

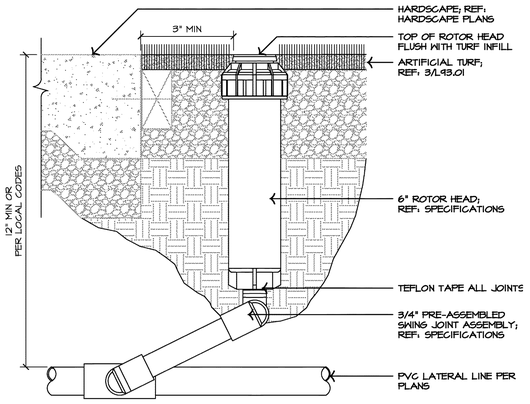

| Revision No. | Description | Date |
|---|---|---|

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

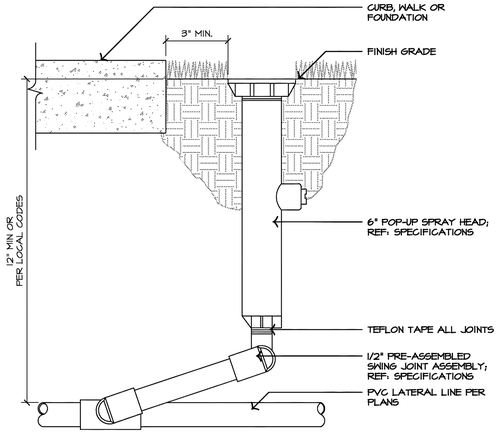
Drawing No.
**L601**
**IRRIGATION PLAN**


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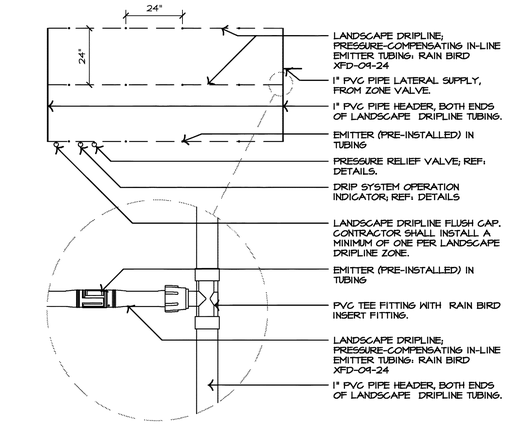
RELEASE FOR CONSTRUCTION
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11/05/2020



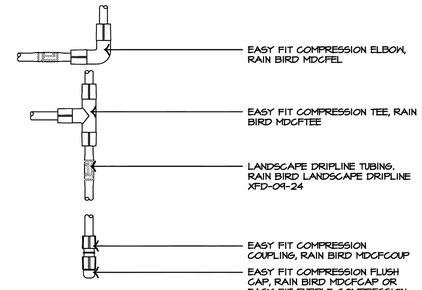

## 1 6" POP-UP ROTOR HEAD - POTABLE WATER



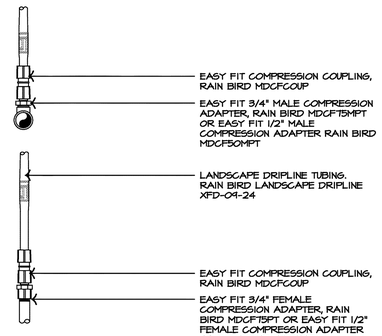

## 2 6" POP-UP SPRAY HEAD - POTABLE WATER



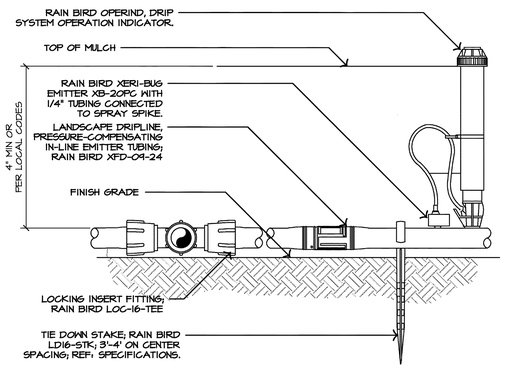

## 3 LANDSCAPE DRIPLINE LAYOUT TYPICAL - POTABLE WATER



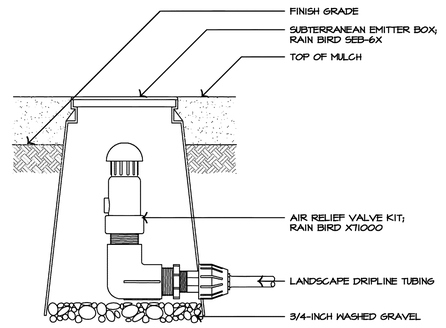

## 4 LANDSCAPE DRIPLINE EASY FIT COMPRESSION FITTINGS - POTABLE WATER



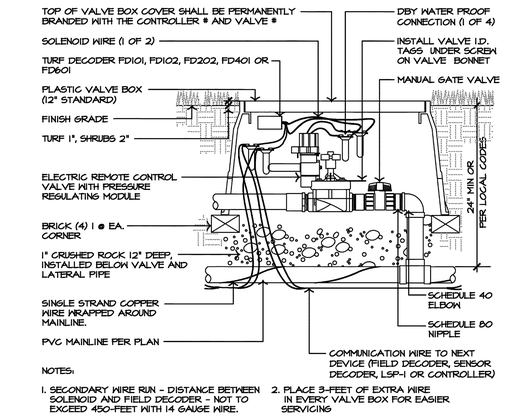

## 5 LANDSCAPE DRIPLINE EASY FIT COMPRESSION ADAPTERS - POTABLE WATER



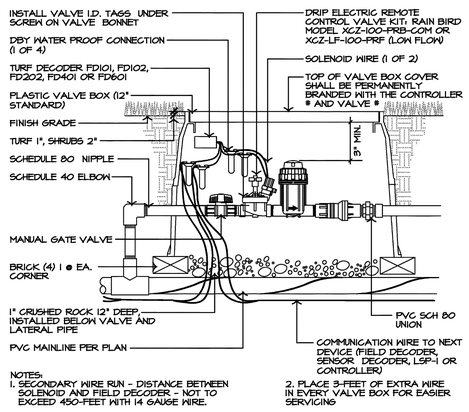

## 6 LANDSCAPE DRIPLINE CONNECTION - POTABLE WATER



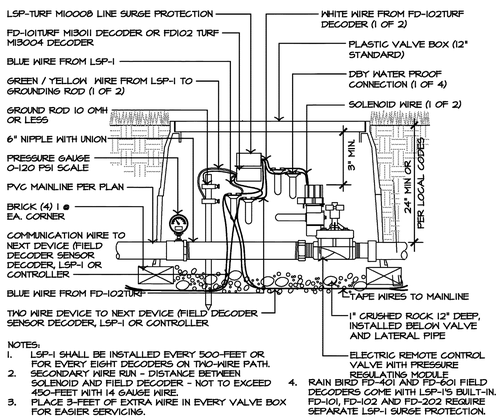

## 7 LANDSCAPE DRIPLINE AIR VALVE KIT - POTABLE WATER



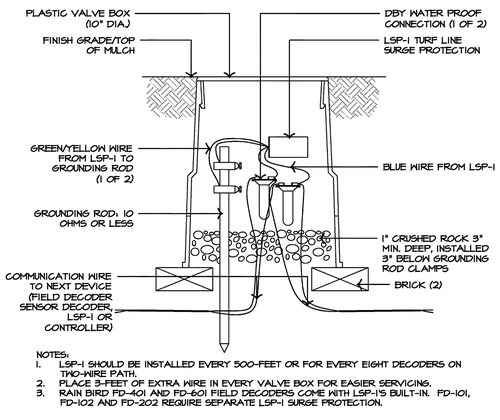

## 8 REMOTE CONTROL VALVE - POTABLE WATER



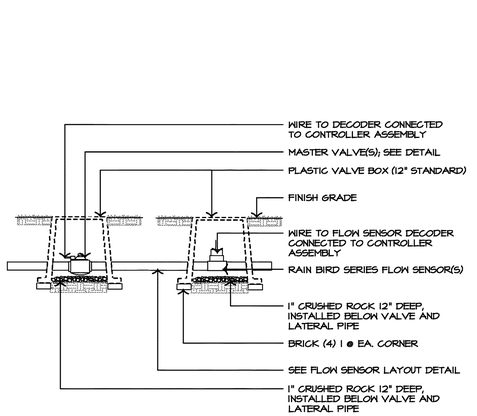

## 9 DRIP REMOTE CONTROL VALVE - POTABLE WATER




## 10 MASTER VALVE - POTABLE WATER




## 11 LINE SURGE PROTECTION




## 12 MASTER VALVE & FLOW SENSOR TYPICAL - POTABLE WATER


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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
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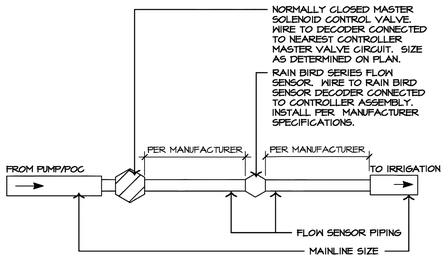

| Revision No. | Description | Date |
|---|---|---|

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

Drawing No.
**L690**
**IRRIGATION DETAILS**

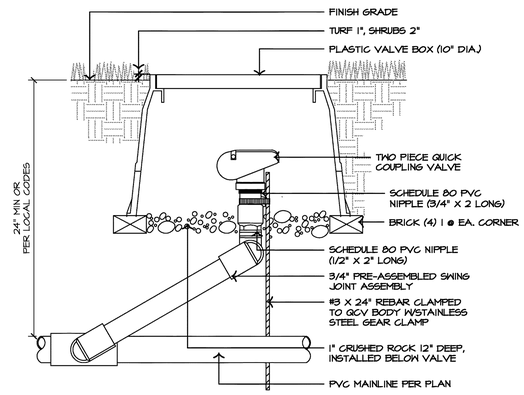

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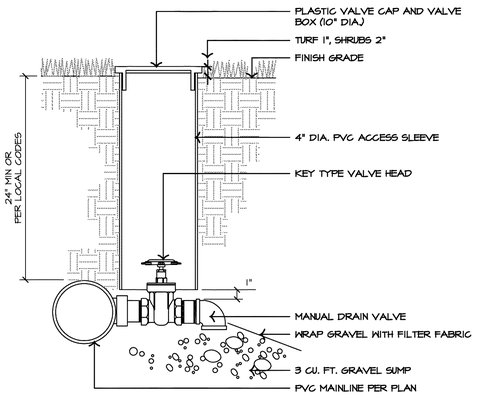



| FLOW SENSOR | SIZE | FLOW SENSOR PIPING SIZE |
|---|---|---|
| RAIN BIRD FS150P | 1 1/2" | 1 1/2" PIPE |
| RAIN BIRD FS200P | 2" | 2" PIPE |
| RAIN BIRD FS300P | 3" | 3" PIPE |
| RAIN BIRD FS400P | 4" | 4' PIPE |

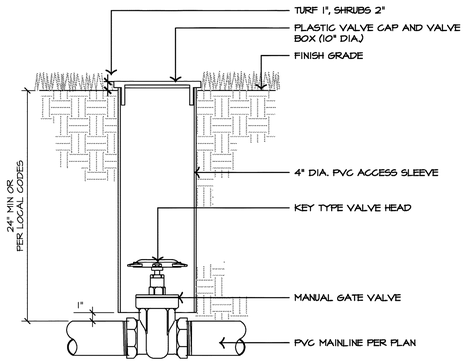
## 1 FLOW SENSOR TYPICAL LAYOUT - POTABLE WATER



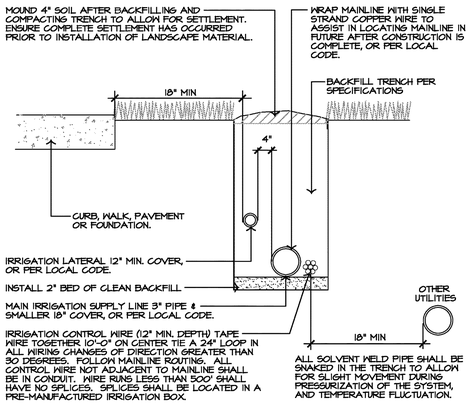

## 2 QUICK COUPLER VALVE - POTABLE WATER



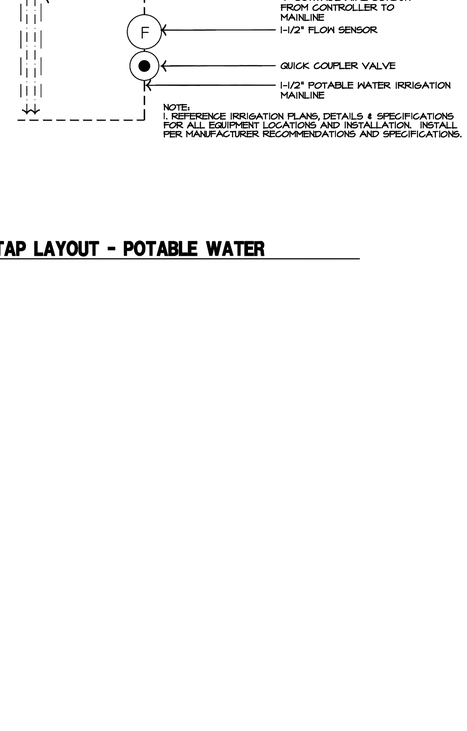

## 3 MANUAL DRAIN VALVE - POTABLE WATER



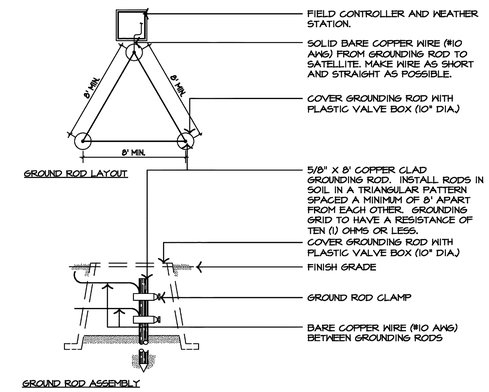

## 4 MANUAL GATE VALVE - POTABLE WATER



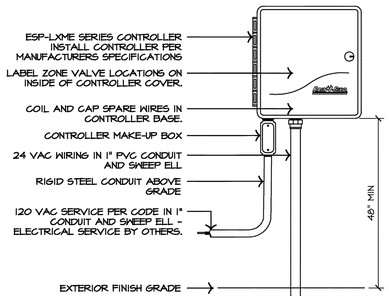

## 5 TRENCHING DETAIL - POTABLE WATER



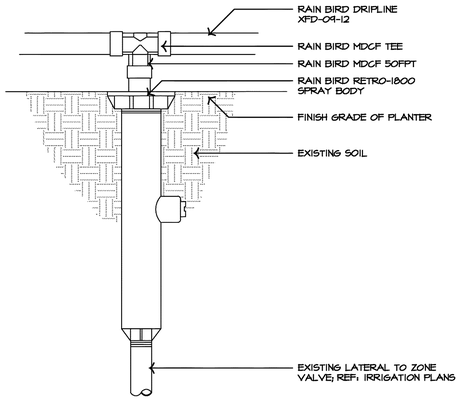

## 6 TAP LAYOUT - POTABLE WATER




## 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 | 6.81 | 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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1000 NE Colbern Road
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Jackson County

100% CD SET
PACKAGE 10

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

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

| Revision No. | Description | Date |
|---|---|---|

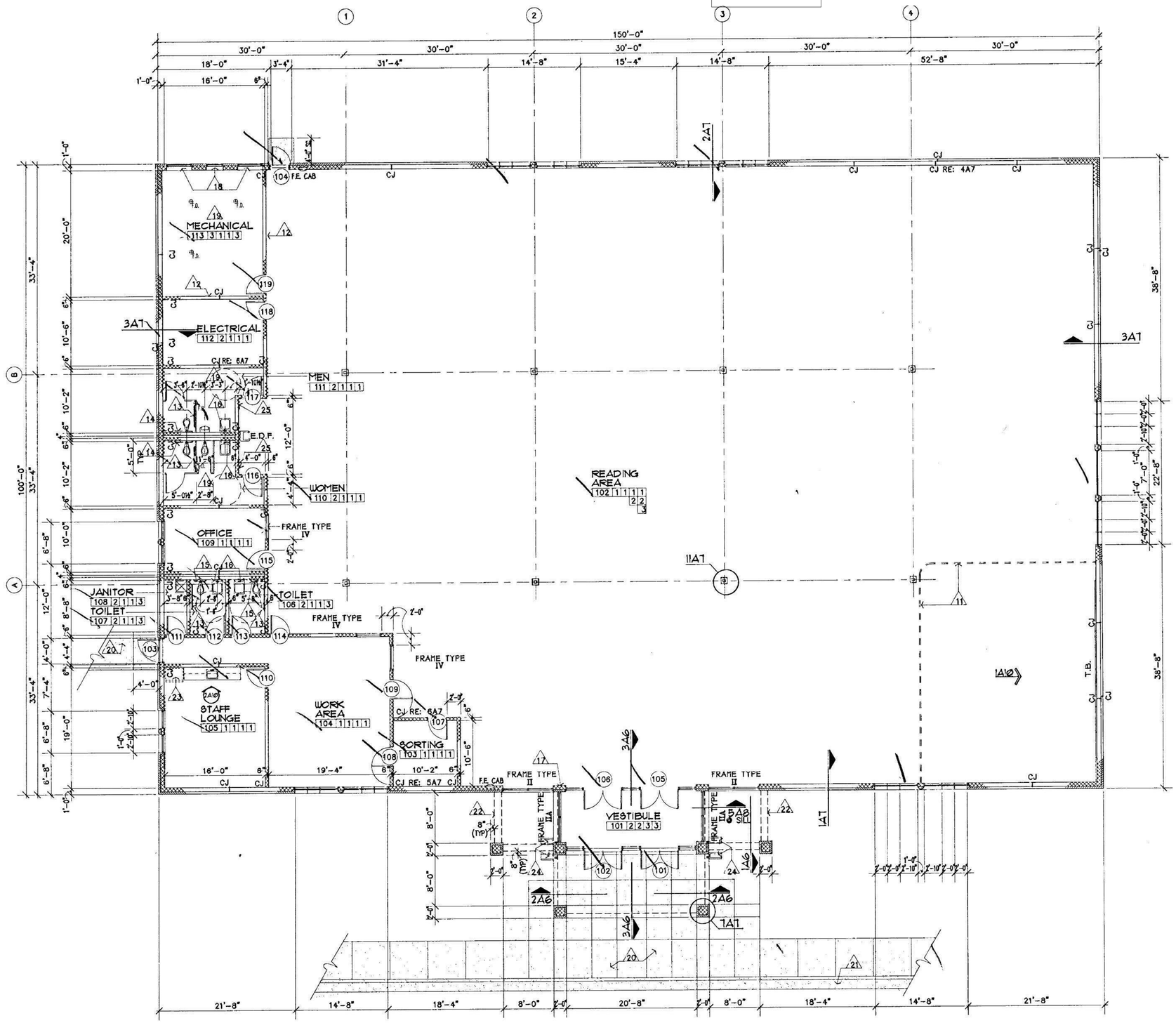
| Project No. | Date | Drawn |
|---|---|---|
| 016-1023 | 12/23/19 | TG |

Drawing No.
**L691**
**IRRIGATION DETAILS**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




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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# 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
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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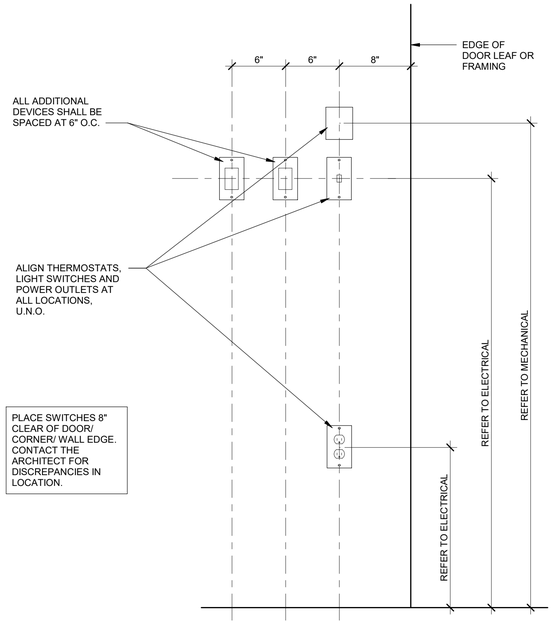
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

**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.

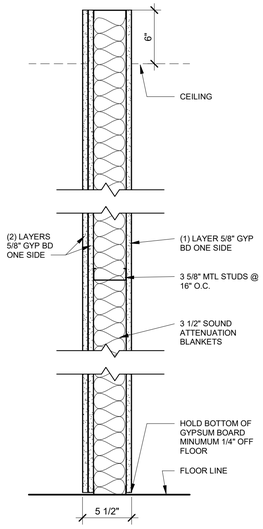



## 1 TYPICAL ELECTRICAL POWER DEVICE ELEVATION

1 1/2" = 1'-0"

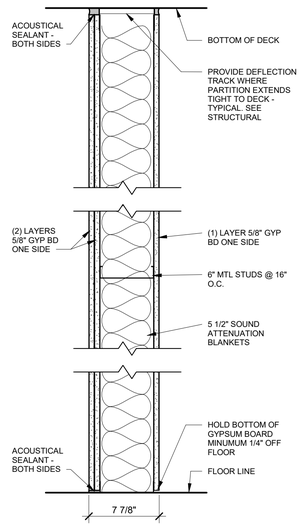
## GENERAL NOTES

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.



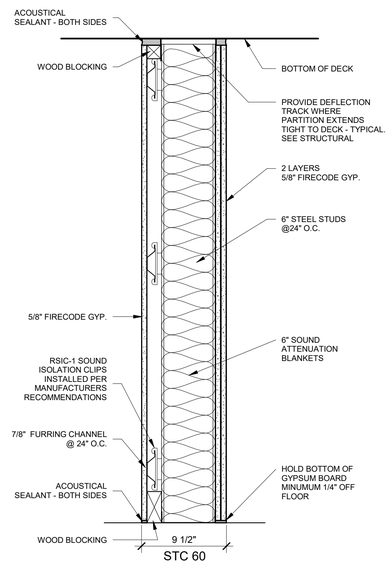

P11

GYPSUM BOARD ASSEMBLY




P10

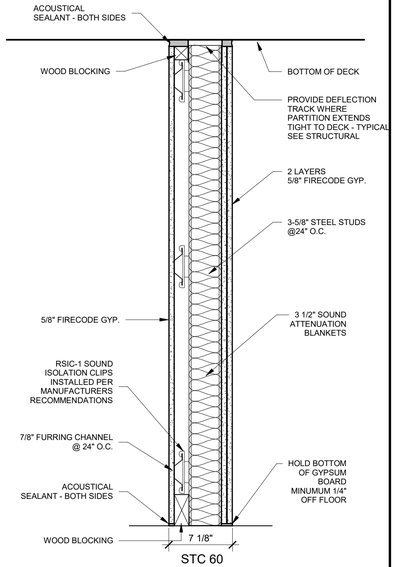
GYPSUM BOARD ASSEMBLY




STC 60

P9

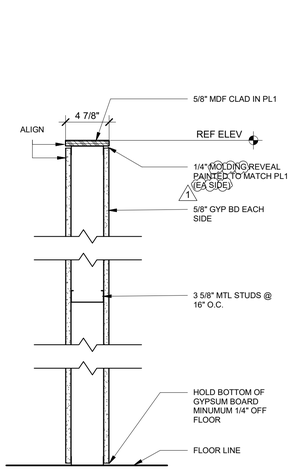
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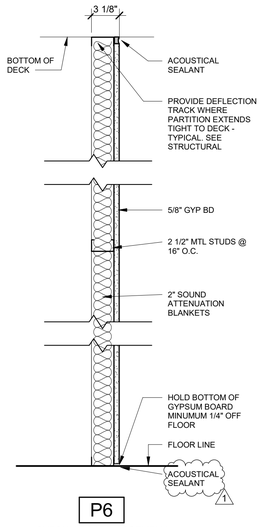
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GYPSUM BOARD ASSEMBLY



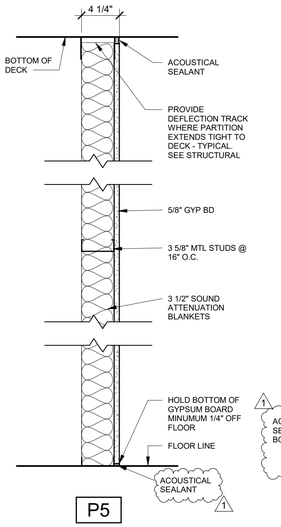

P7

GYPSUM BOARD ASSEMBLY



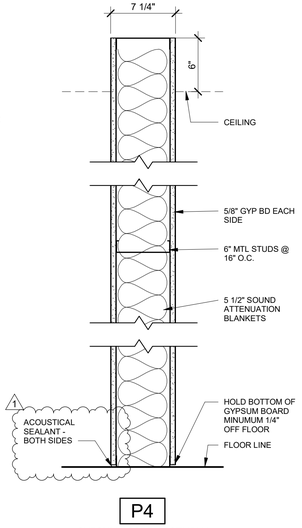

P6

GYPSUM BOARD ASSEMBLY



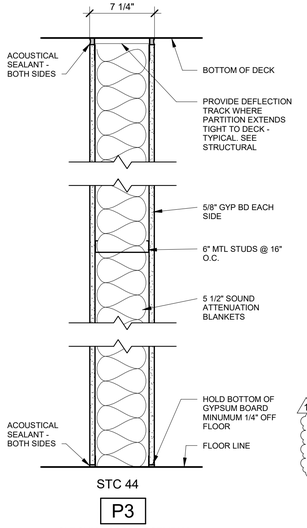

P5

GYPSUM BOARD ASSEMBLY




P4

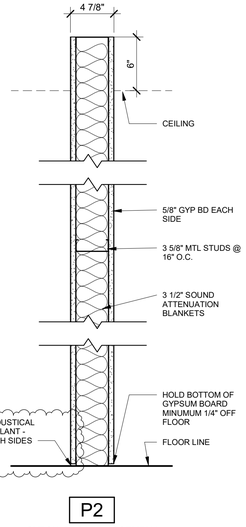
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STC 44

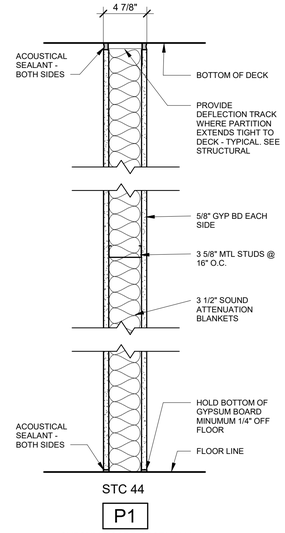
P3

GYPSUM BOARD ASSEMBLY




P2

GYPSUM BOARD ASSEMBLY




STC 44

P1

GYPSUM BOARD ASSEMBLY

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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.

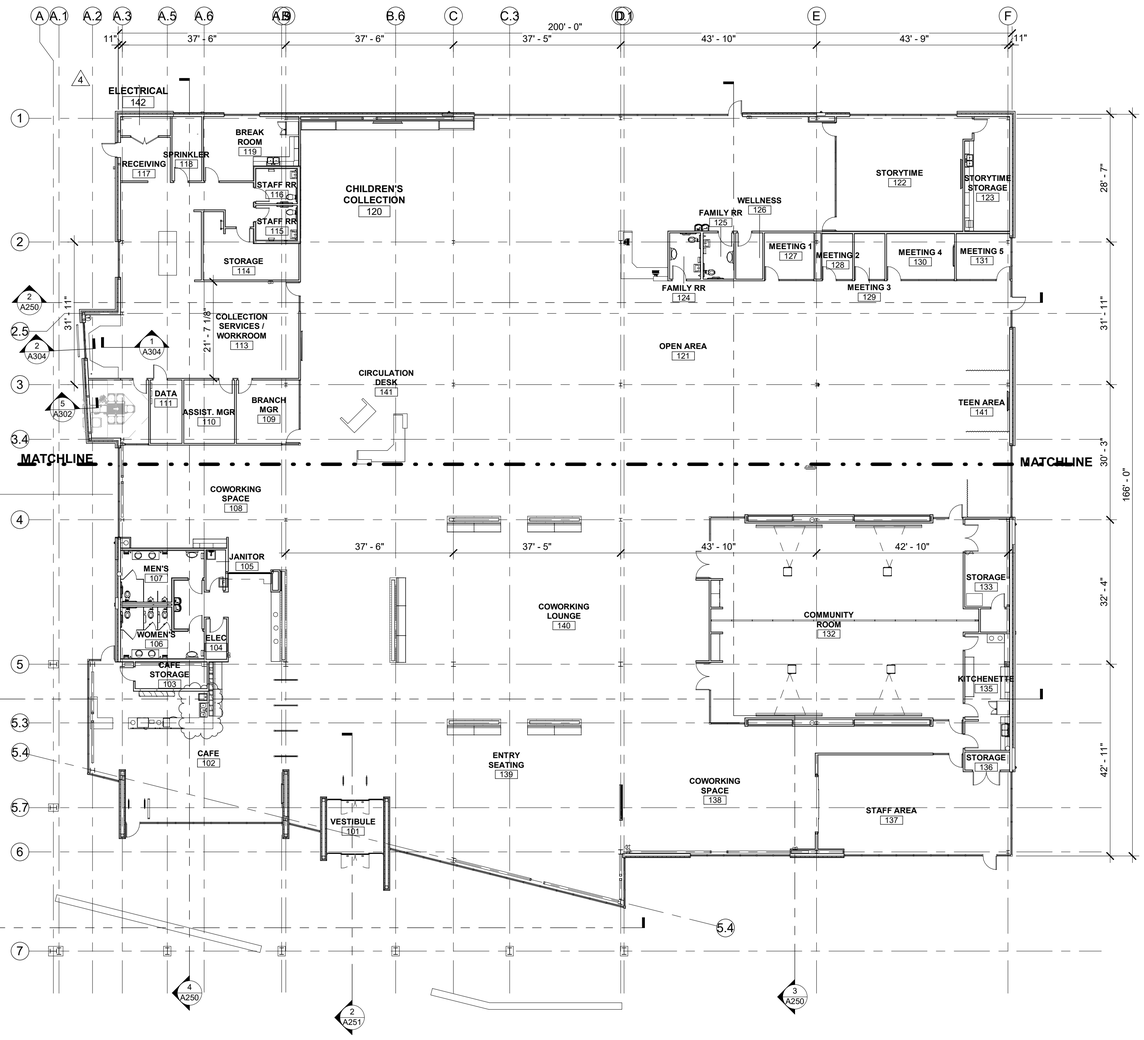
**A000**

**PARTITION TYPES**

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LEE'S SUMMIT, MISSOURI

11/05/2020




## 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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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 |
|---|---|---|
| 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**

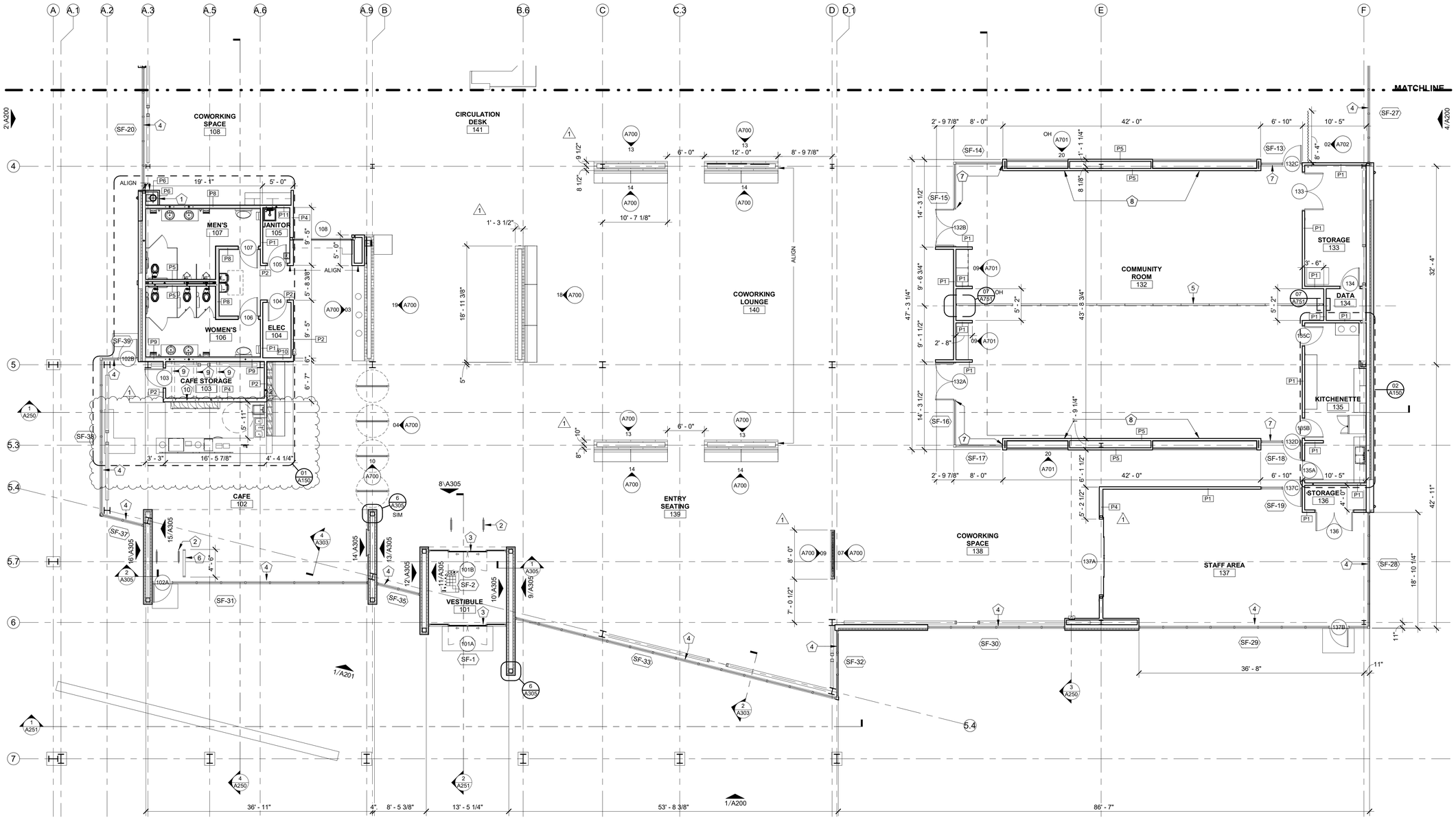
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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

## 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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Architect of Record
STATE OF MISSOURI
MICHAEL JOHN HEULE
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

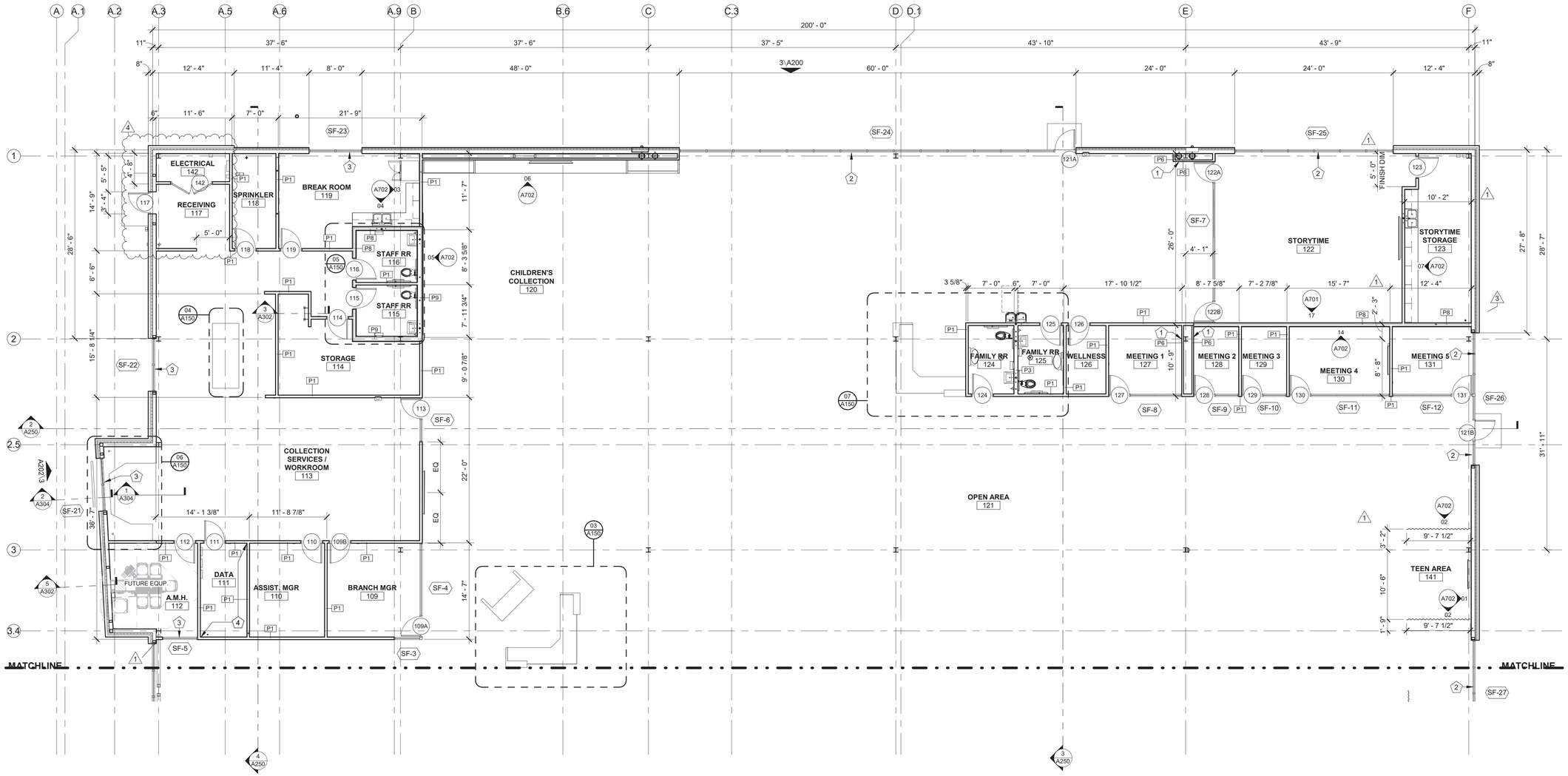

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

## 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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Architect of Record
STATE OF MISSOURI
MICHAEL JOHN HEULE
A-5451
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.

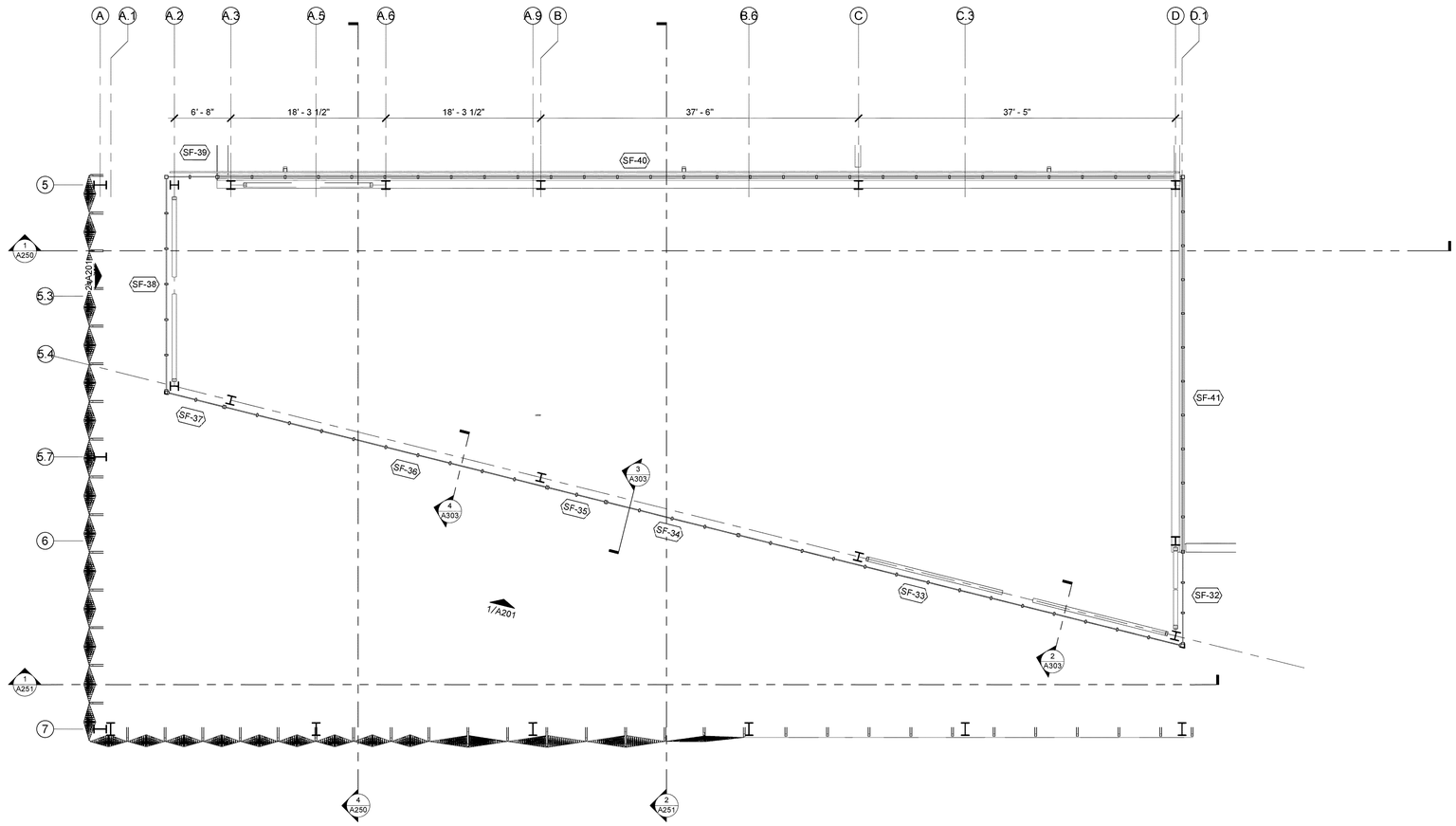
**A102**

FLOOR PLAN - AREA B

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




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

## GENERAL NOTES

## KEYNOTES

1


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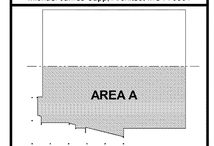

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STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019
Michael James Sapp, Architect MO A-5051




KEY PLAN

| Revision No. | Description | Date |
|---|---|---|
| | | |

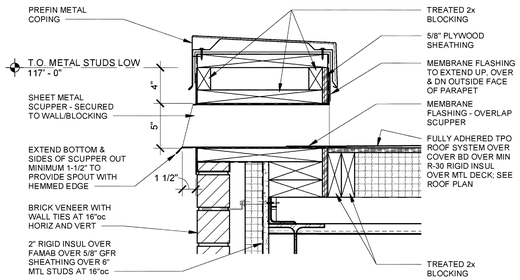
| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12-23-2019 | JDL |

Drawing No.
**A103**
CLERESTORY PLAN

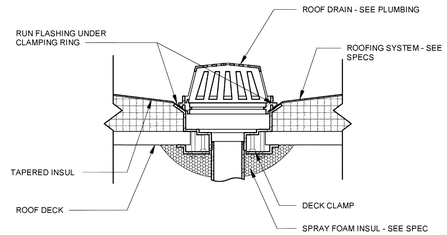
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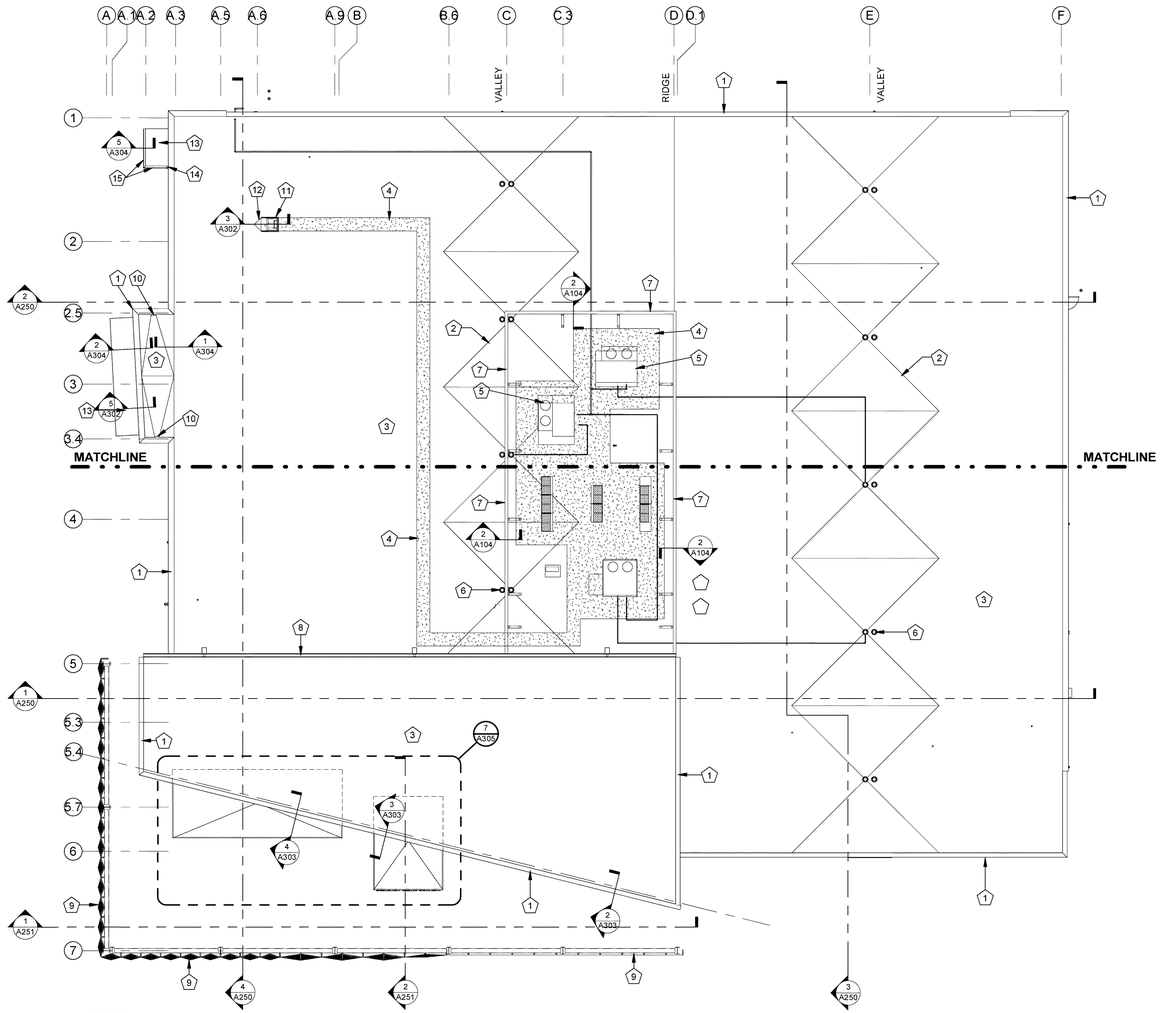
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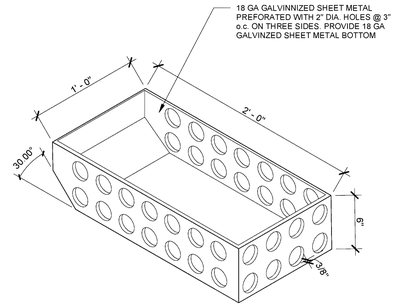

## 5 THRU-WALL SCUPPER DETAIL
1 1/2" = 1'-0"



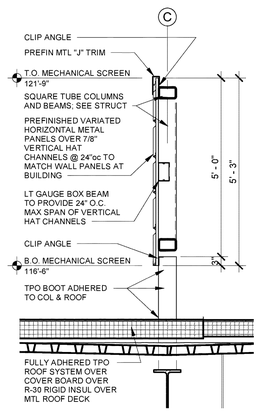

## 4 ROOF DRAIN DETAIL
1 1/2" = 1'-0"




## 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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NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051

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| WP10 | 12-23-2019 | JDL |

Drawing No.
**A104**
OVERALL ROOF PLAN

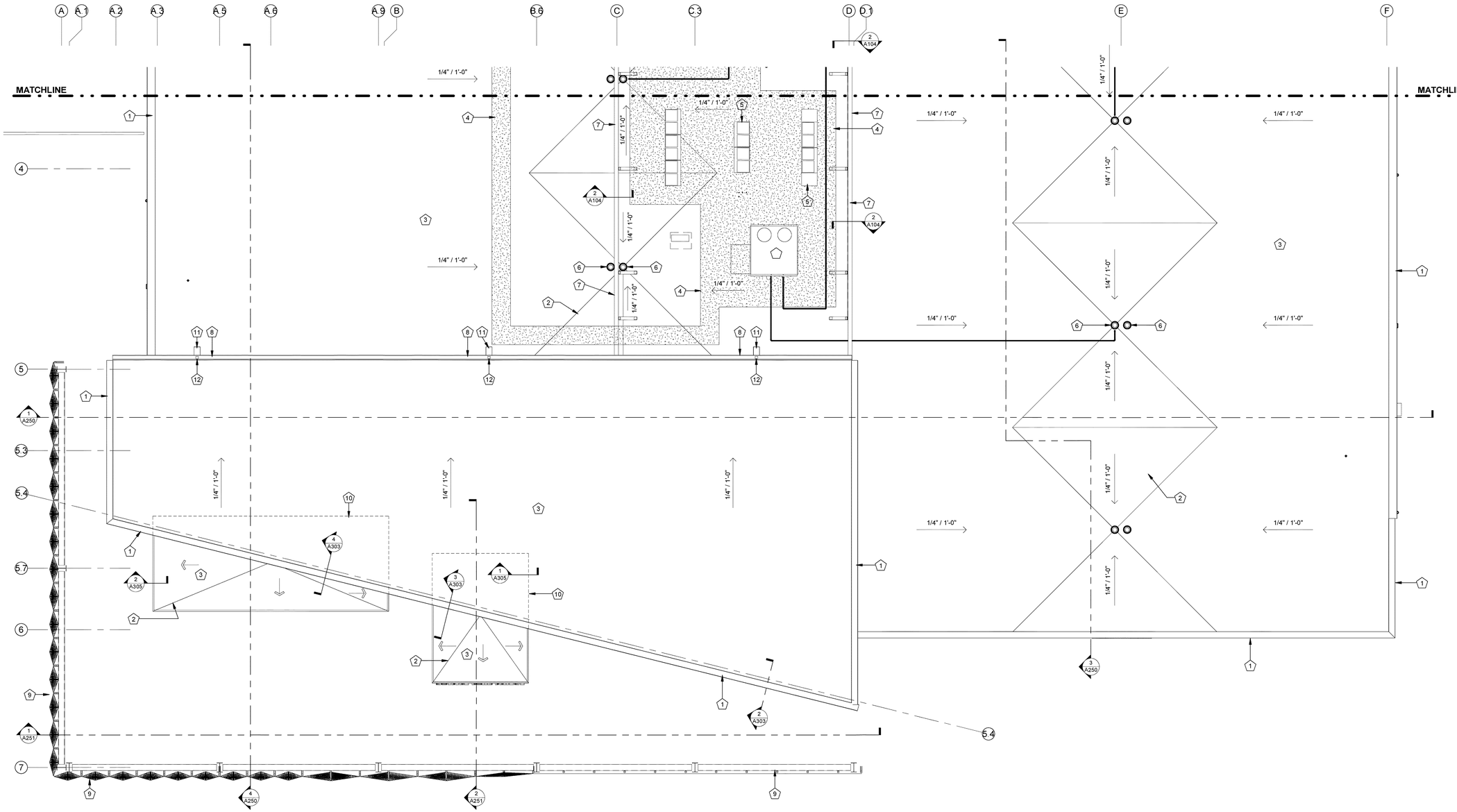
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## ROOF PLAN KEYNOTES

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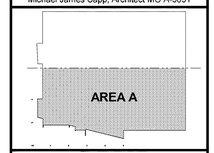
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MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
12-23-2019

Michael James Sapp, Architect MO A-5051




**KEY PLAN**

| Revision No. | Description | Date |
|---|---|---|
| | | |

| Project No. | Date | Drawn |
|---|---|---|
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Drawing No.

**A105**
**ROOF PLAN - AREA A**

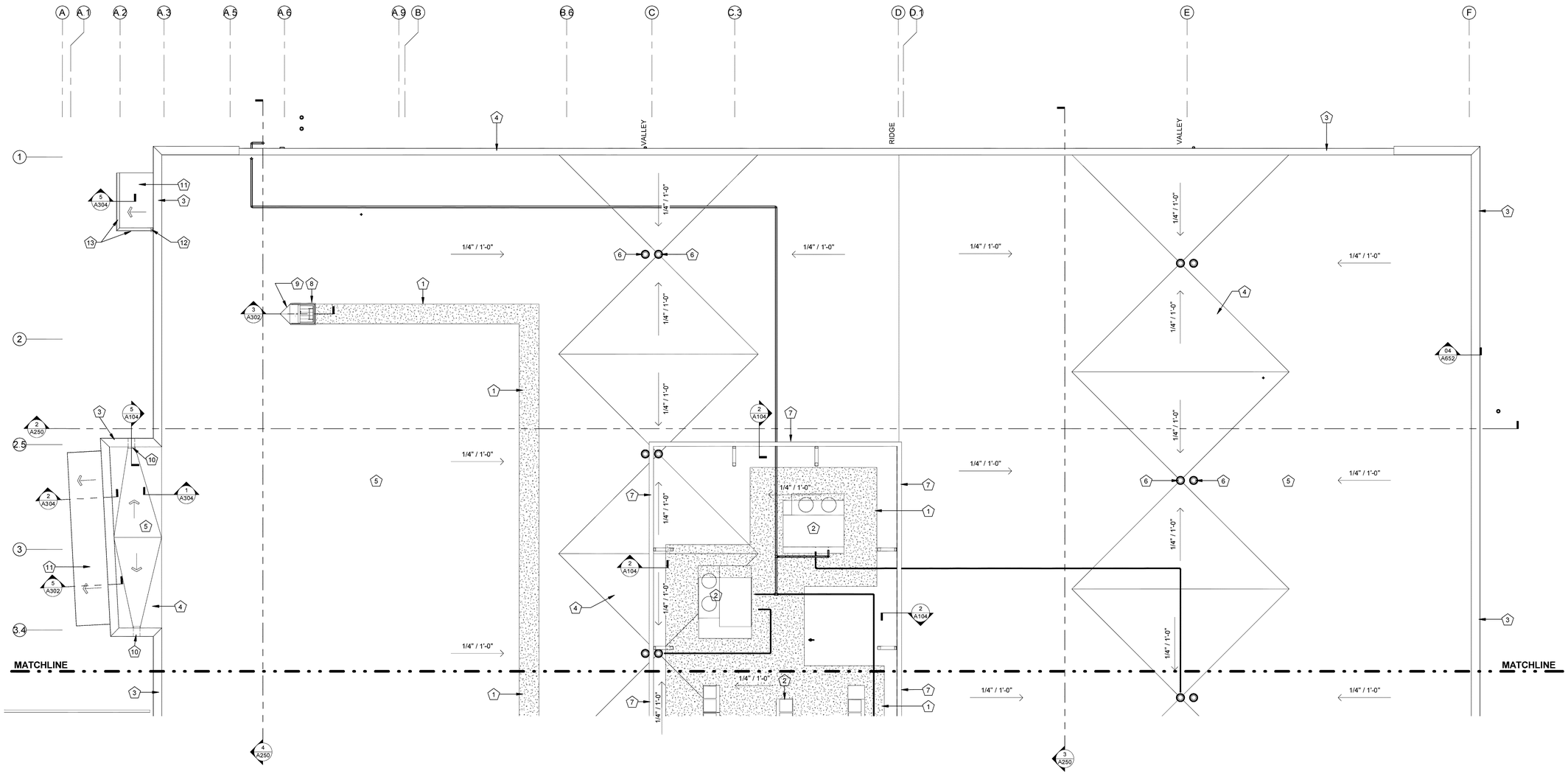

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## ROOF PLAN KEYNOTES

| | |
|---|---|
| 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 |
|---|---|---|
| | | |

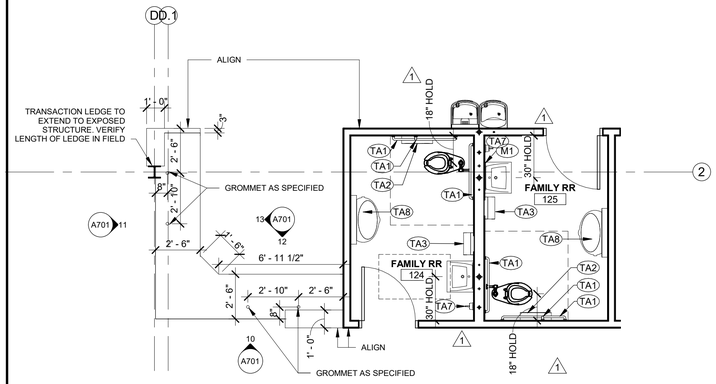
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Drawing No.
**A106**
ROOF PLAN - AREA B

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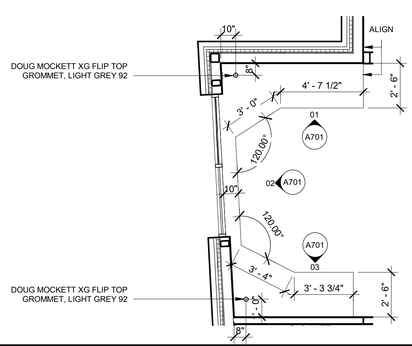
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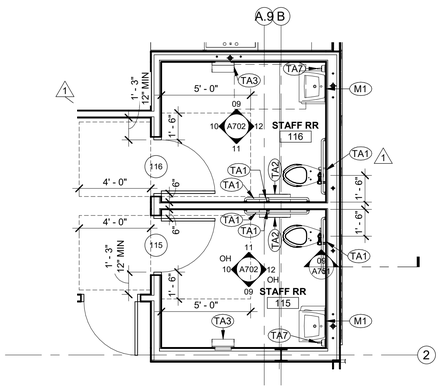

## 07 ENLARGED PLAN - FAMILY RR & CHILDREN'S CIRC DESK

1/4" = 1'-0"



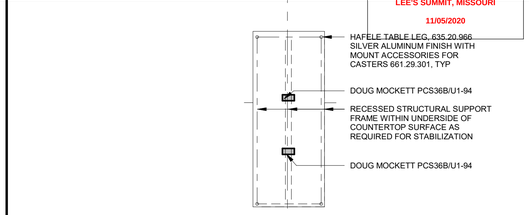

## 06 ENLARGED PLAN - DRIVE UP WINDOW DESK

1/4" = 1'-0"



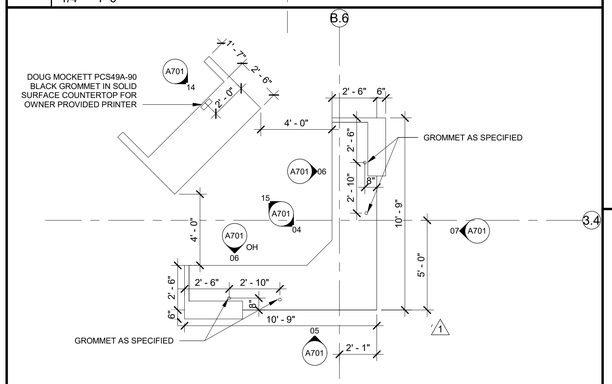

## 05 ENLARGED PLAN - STAFF RR

1/4" = 1'-0"



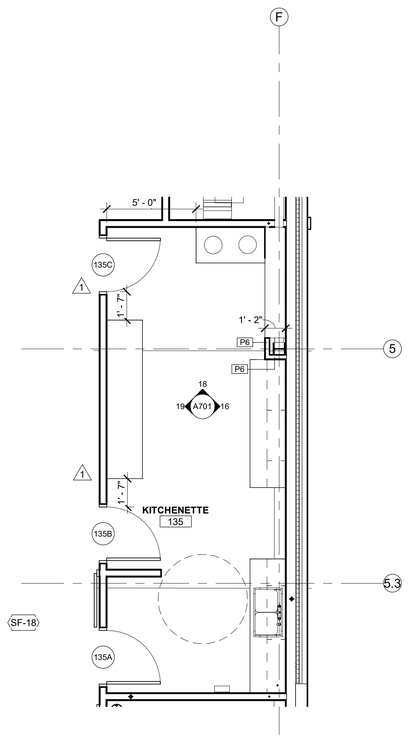

## 04 ENLARGED PLAN - WORKROOM ISLAND

1/4" = 1'-0"




## 03 ENLARGED PLAN - CIRCULATION DESK

1/4" = 1'-0"

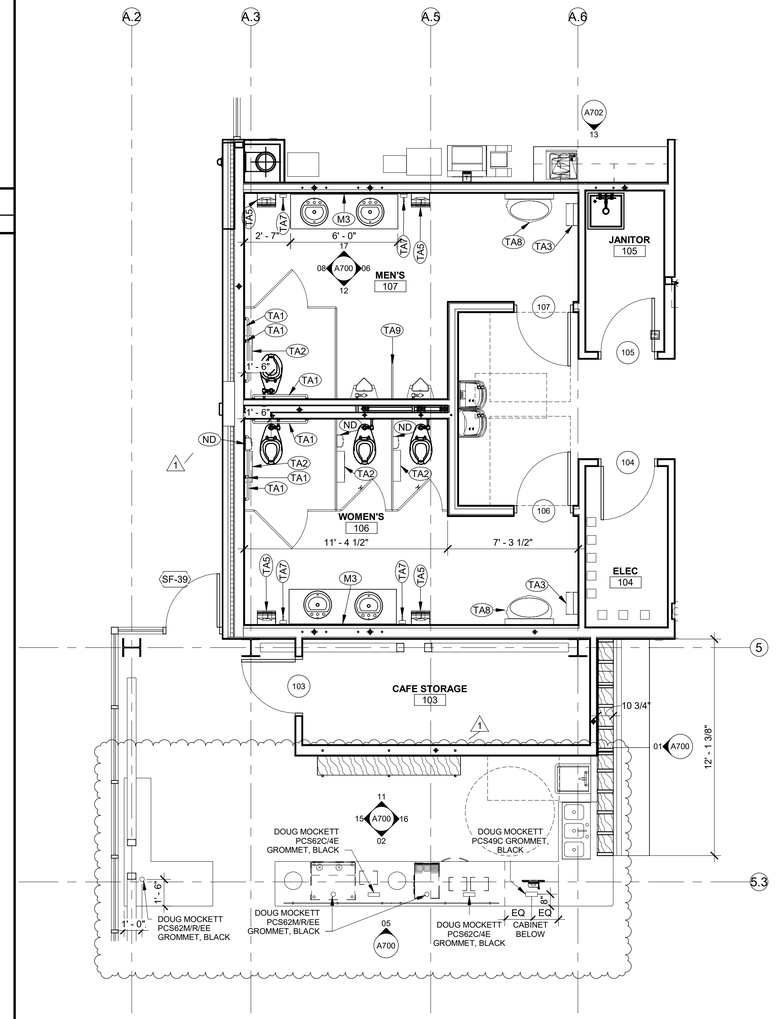



## 02 ENLARGED PLAN - KITCHENETTE

1/4" = 1'-0"

## 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 |




## 01 ENLARGED PLAN - CAFE + RESTROOMS

1/4" = 1'-0"


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MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

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|---|---|---|
| 1 | ADDENDUM 01 | 01/13/20 |
| 4 | ASI 02 | 03/13/20 |
| 5 | ASI 03 | Date 5 |

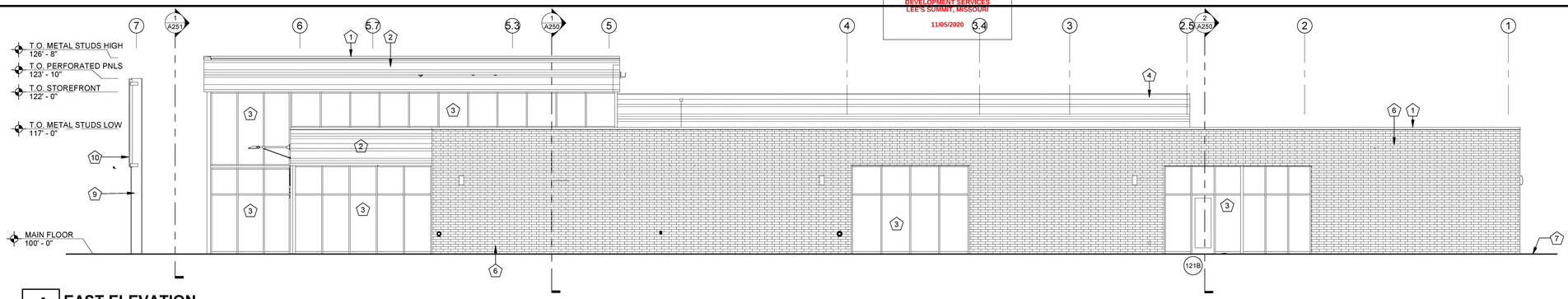
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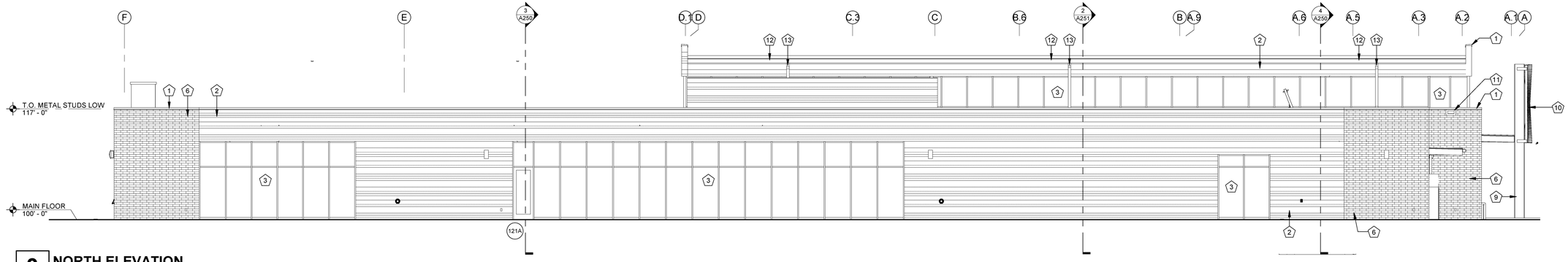
**A150**
ENLARGED PLANS


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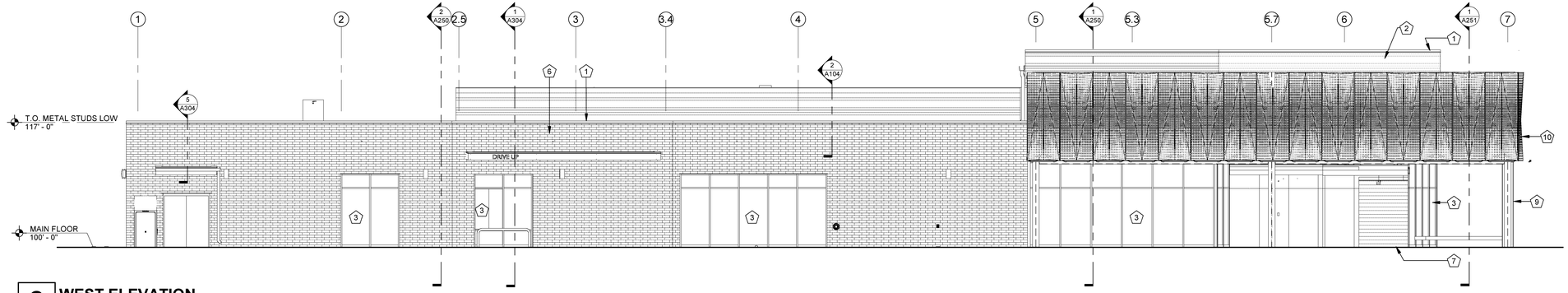
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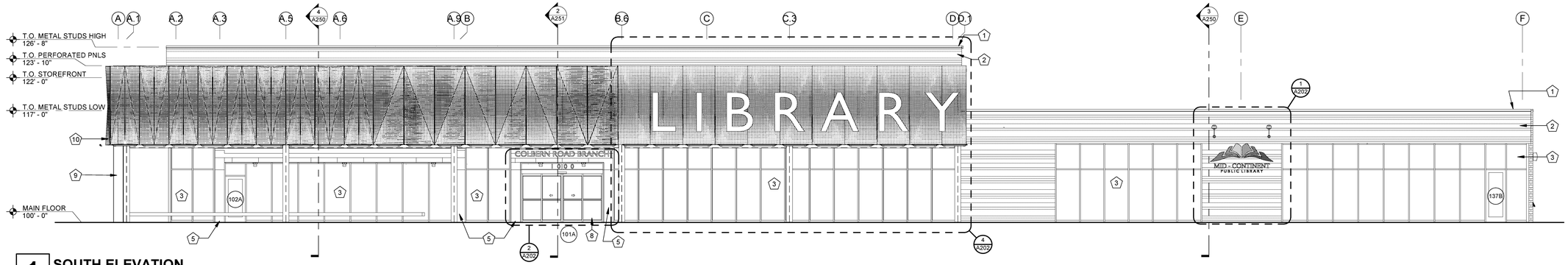

## 4 EAST ELEVATION
1/8" = 1'-0"




## 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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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

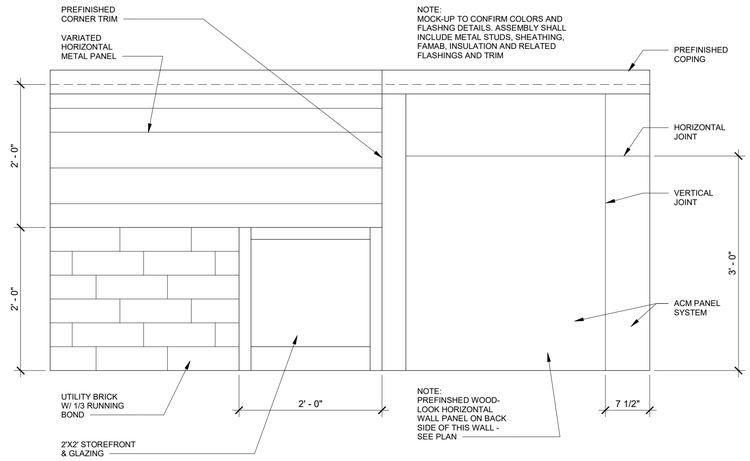
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| Project No. | Date | Drawn |
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| WP10 | 12-23-2019 | JDL |

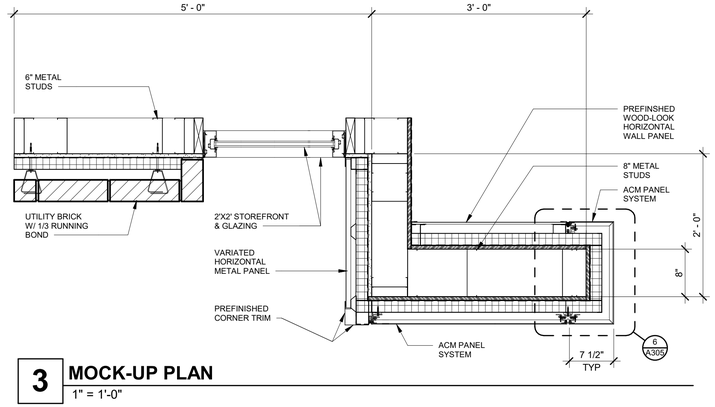
Drawing No.
**A200**
ELEVATIONS


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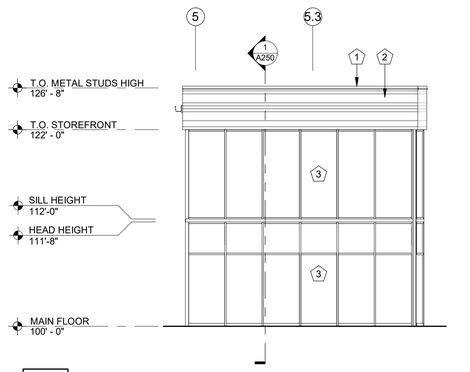
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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020



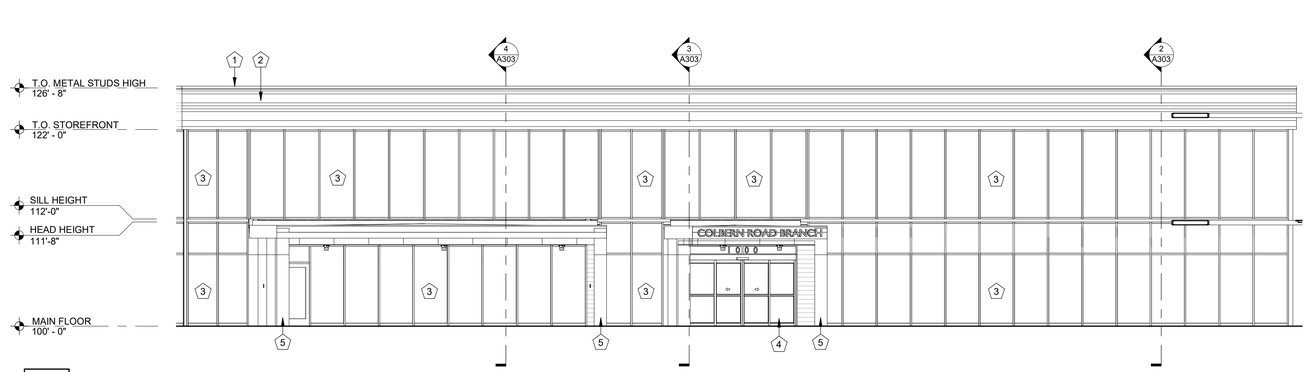

**4 MOCK-UP ELEVATION**
1" = 1'-0"




**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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# Colbern Road Branch
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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 |
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Drawing No.
**A201**
**ELEVATIONS**

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LEE'S SUMMIT, MISSOURI

11/05/2020

## 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.

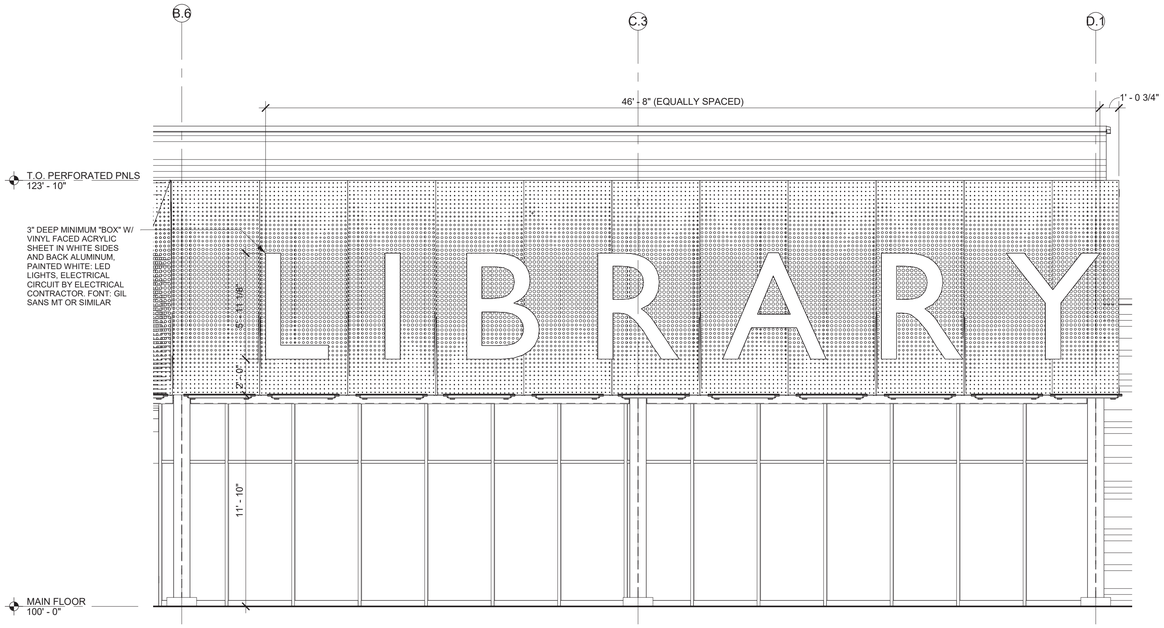
3. ARCHITECT TO PROVIDE LAYOUT FILE FOR LOGO, AND PANTONE COLORS TO BE MATCHED BY FABRICATOR.

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.

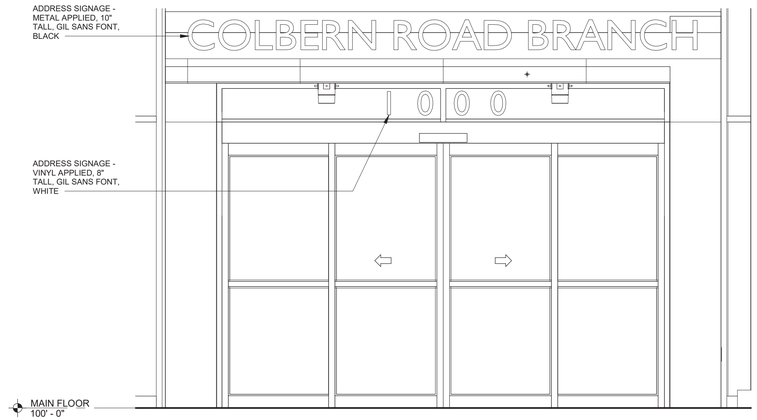
5. SIGN "BOXES": CONSTRUCT OF SHT MTG TYPE AND SIZE AS NEC.; WATER TIGHT, MINIMAL VISIBLE JOINTS, CONCEALED FASTENING; BRACING AND SUPPORTS AS REQUIRED; KYNAR FINISH OR EQ.; OR MAY BE PREFAB UNITS EQUAL TO MAPES. PROVIDE SHOP DRAWINGS.

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

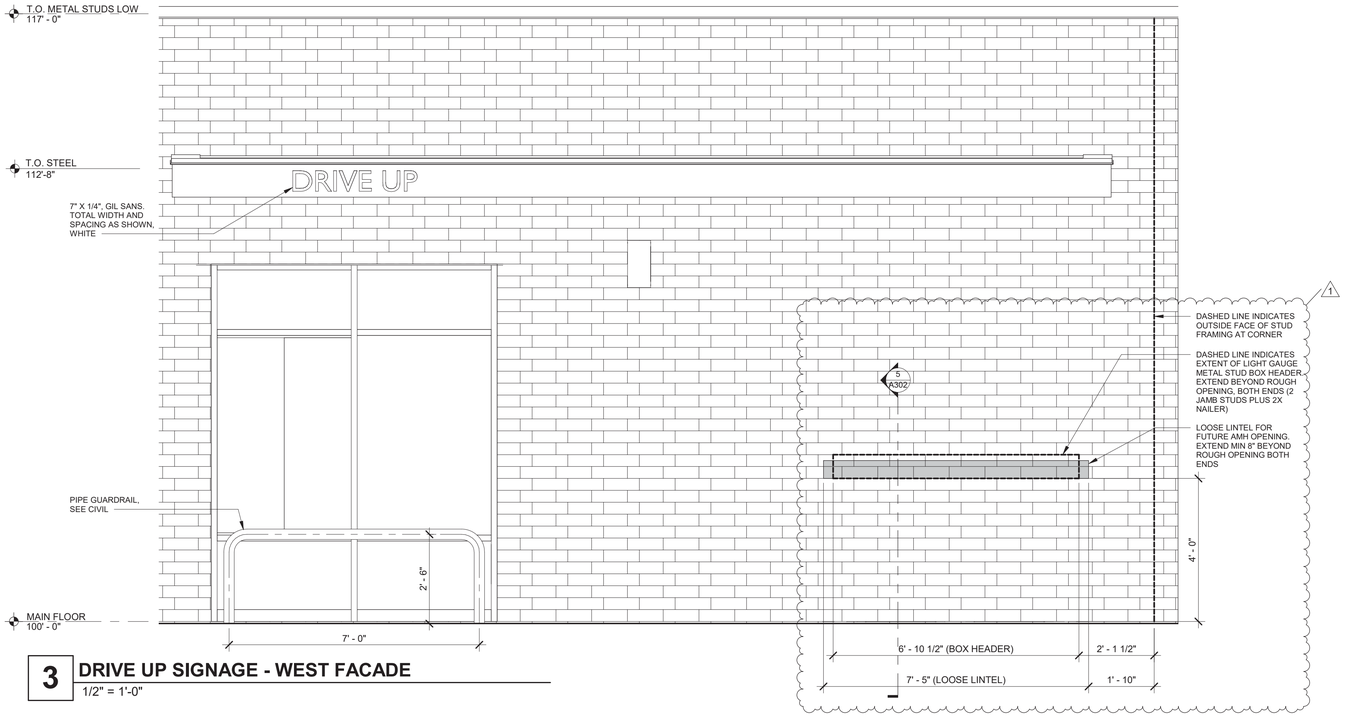
7. LIGHTED ALTERNATES: PROVIDE POWER FROM NEAREST VIABLE NON-SWITCHED CIRCUIT; INCLUDE TIME CLOCK AT APPROVED ACCESSIBLE LOCATION IN CLOSET OR UTILITY AREA.



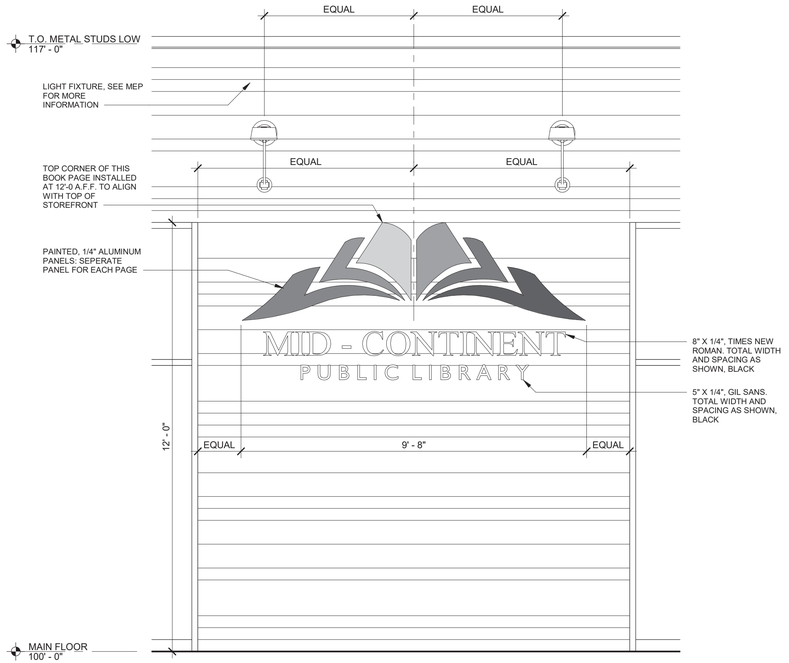

### 4 LIBRARY SIGNAGE - SOUTH FACADE
1/4" = 1'-0"




### 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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# Colbern Road Branch

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JACKSON COUNTY

Architect of Record




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

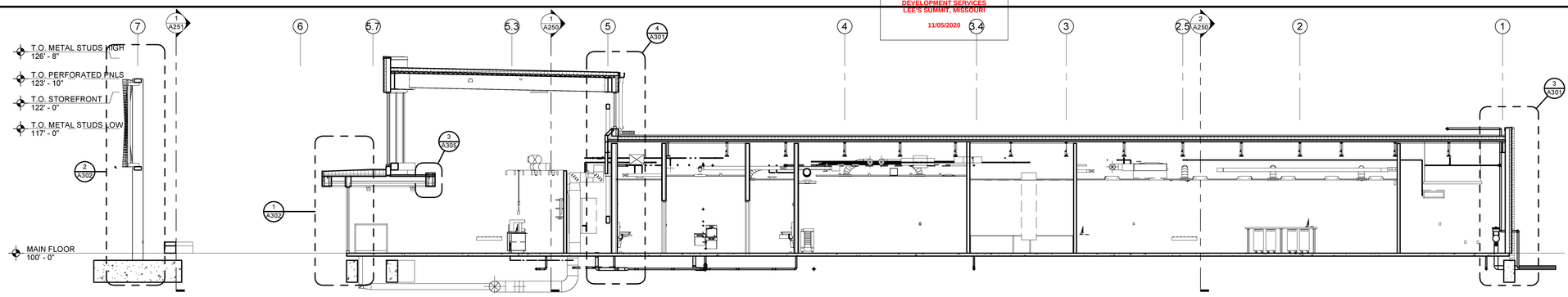
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| 1 | ADDENDUM 01 | 01/10/20 |

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

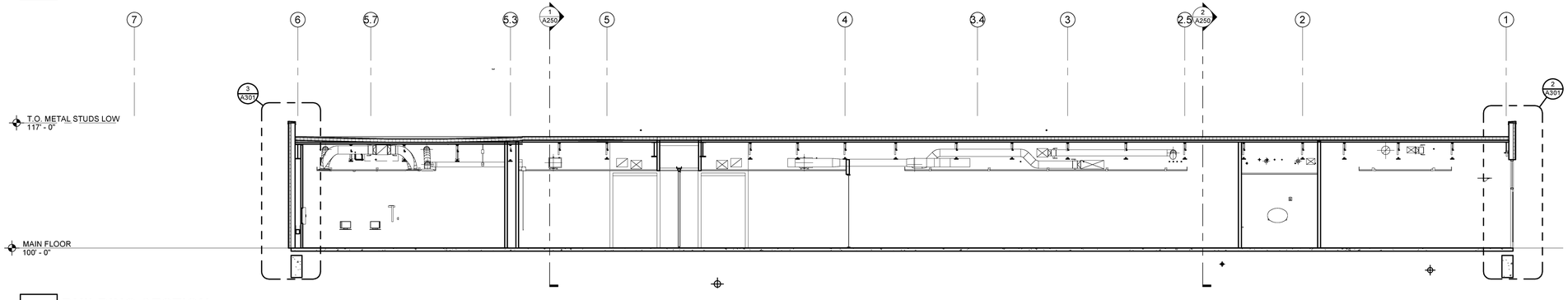
Drawing No.
**A202**
SIGNAGE


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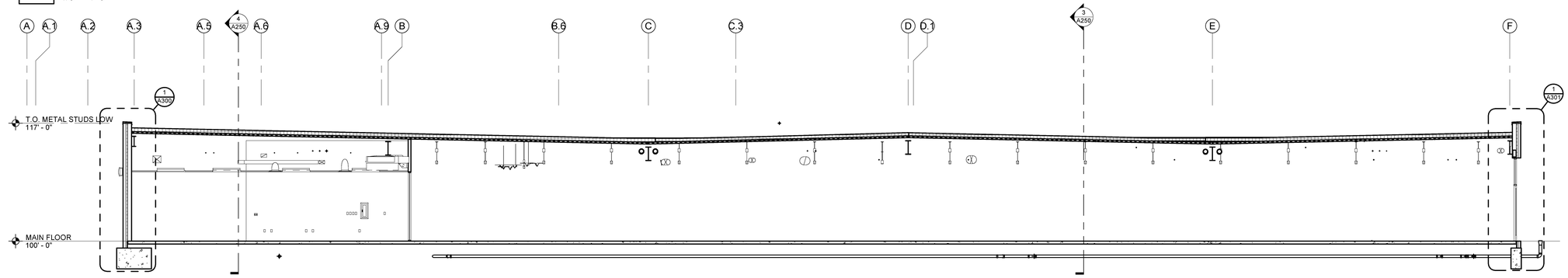
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LEE'S SUMMIT, MISSOURI
11/05/2020



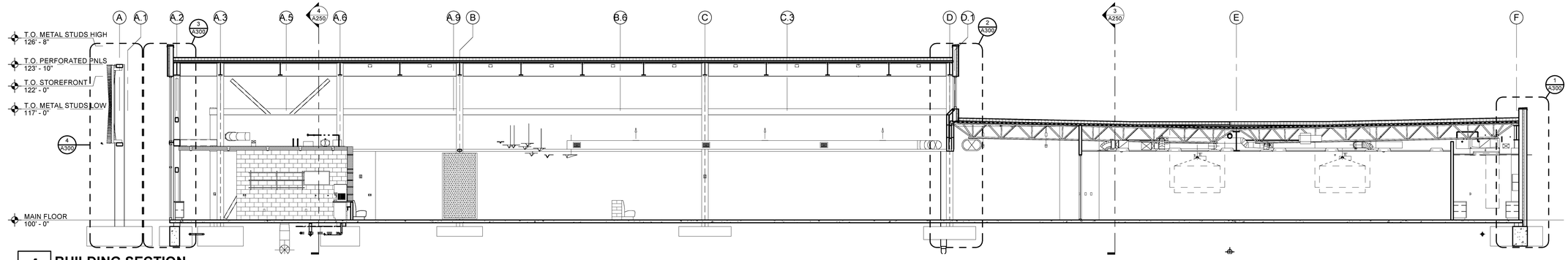

## 4 BUILDING SECTION
1/8" = 1'-0"




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

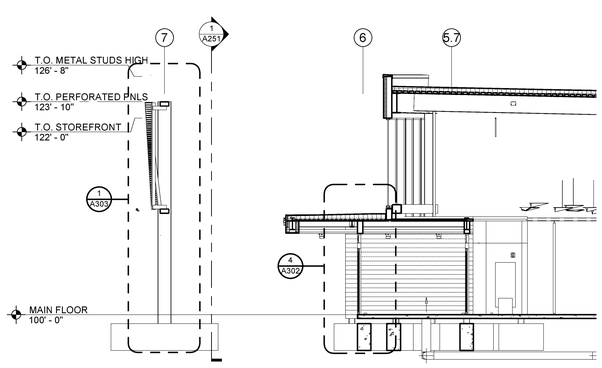
Drawing No.
**A250**
**BUILDING SECTIONS**

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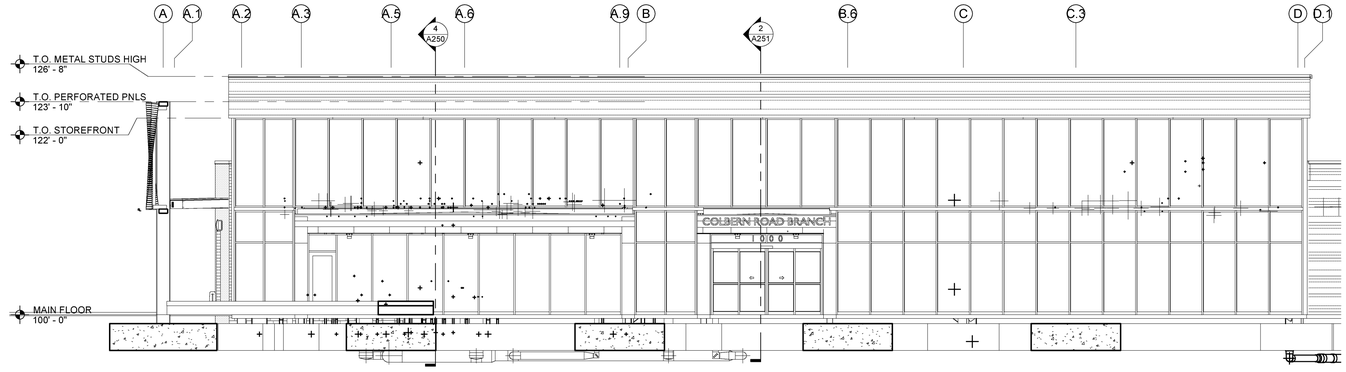
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

## KEYNOTES




**2 BUILDING SECTION**
1/8" = 1'-0"




**1 BUILDING SECTION**
1/8" = 1'-0"


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JACKSON COUNTY

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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 |

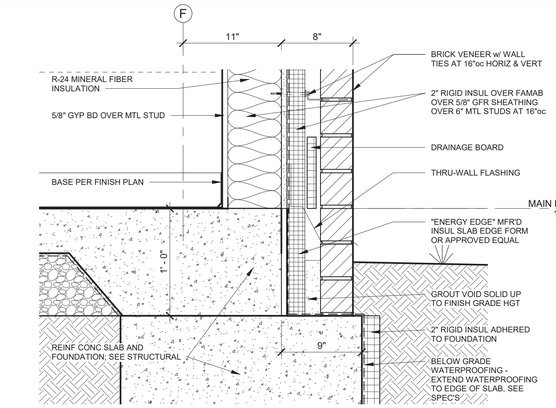
Drawing No.

**A251**
BUILDING SECTIONS

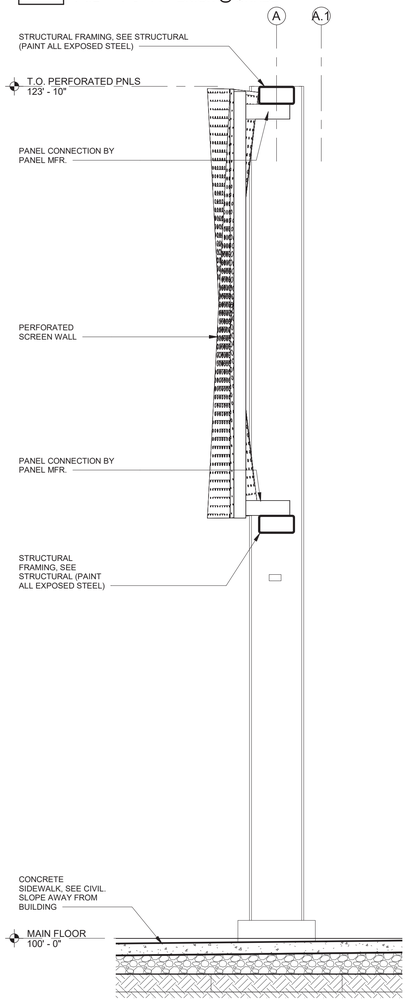
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LEE'S SUMMIT, MISSOURI

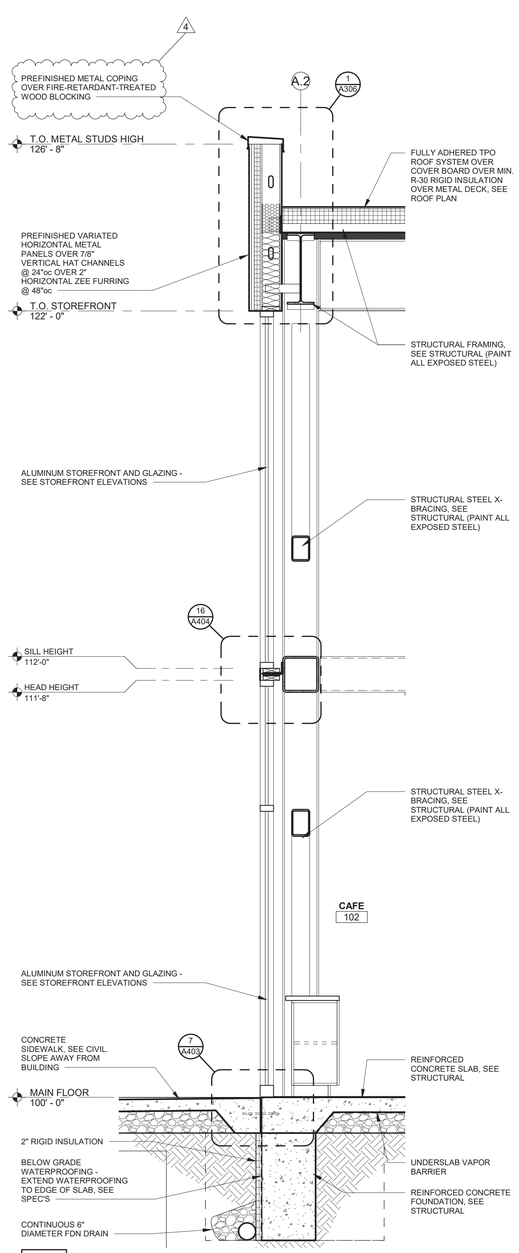
11/05/2020



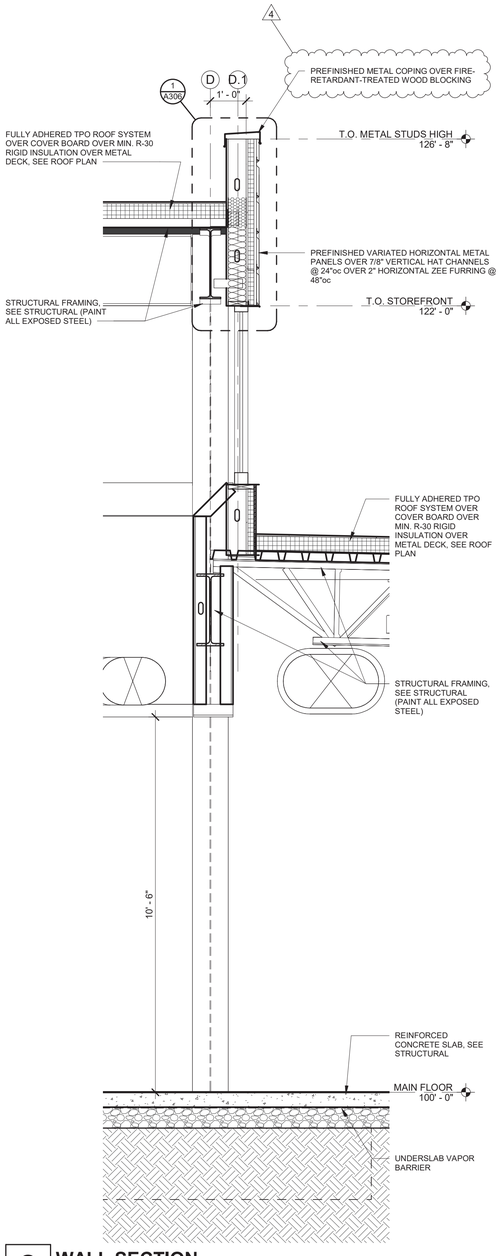

**6 DETAIL**
1 1/2" = 1'-0" **TYP BRICK @ GRADE**



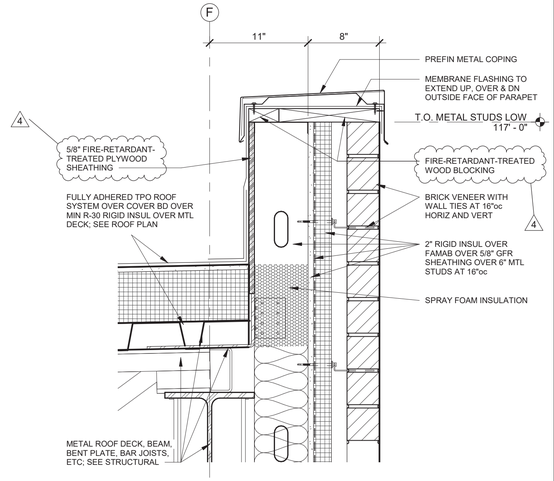

**4 WALL SECTION**
1/2" = 1'-0"



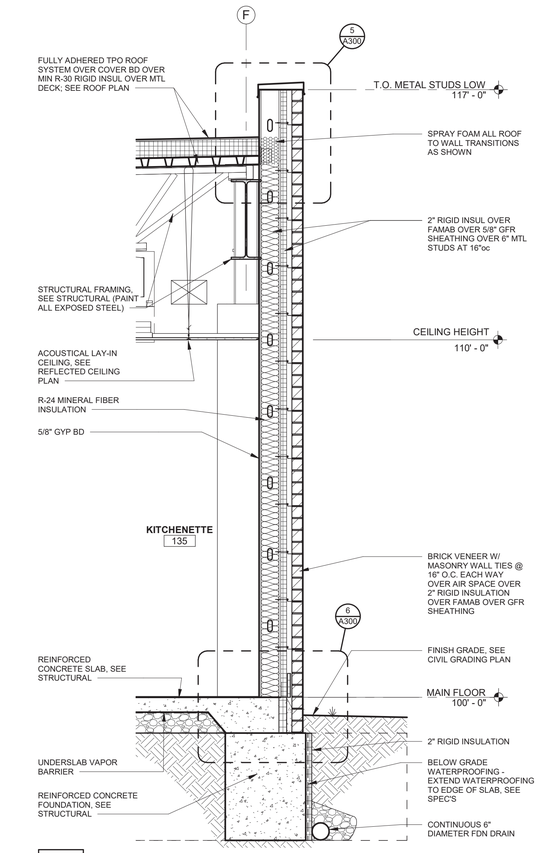

**3 WALL SECTION**
1/2" = 1'-0"




**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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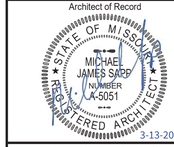
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Architect of Record




Michael James Sapp, Architect MO A-5051

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

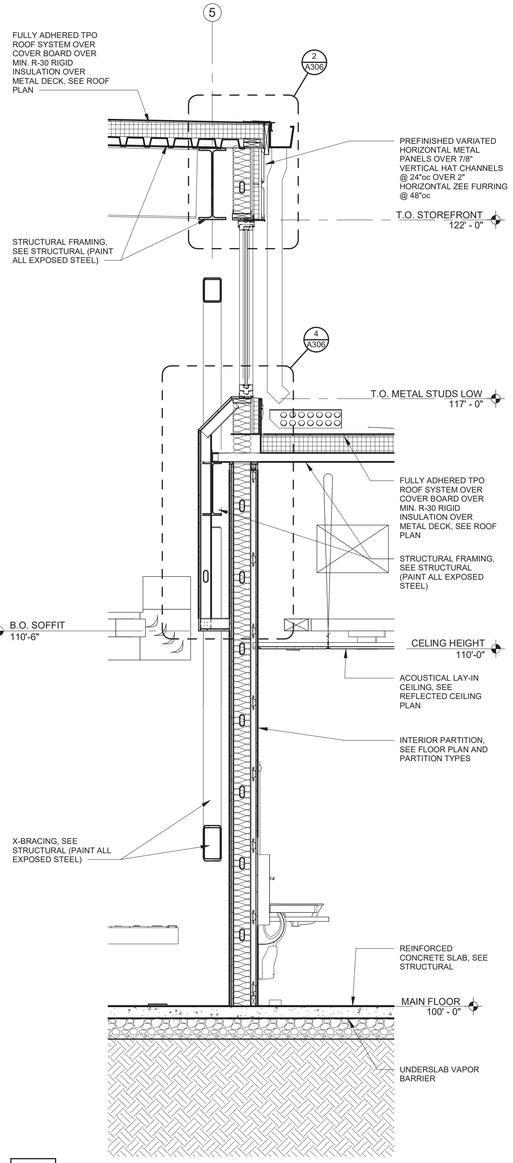
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| WP10 | 12-23-2019 | JDL |

Drawing No.
**A300**
**WALL SECTIONS**

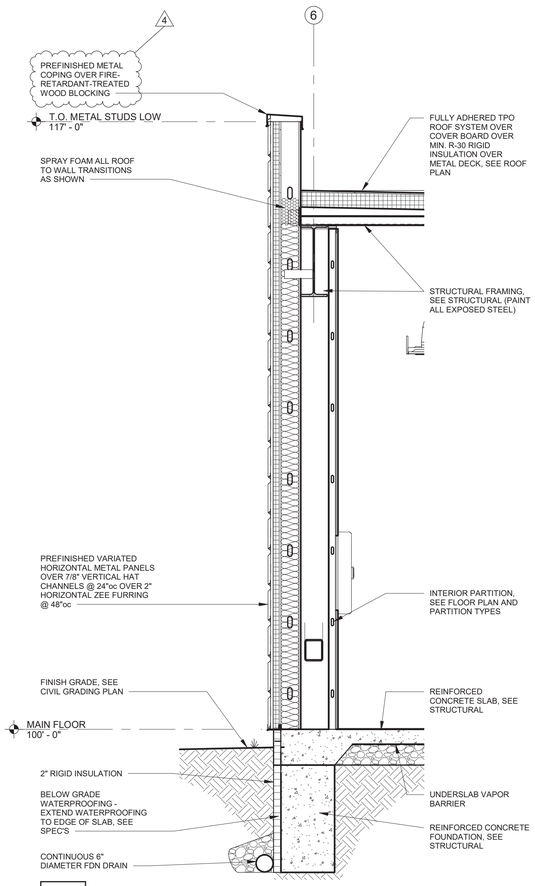
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LEE'S SUMMIT, MISSOURI

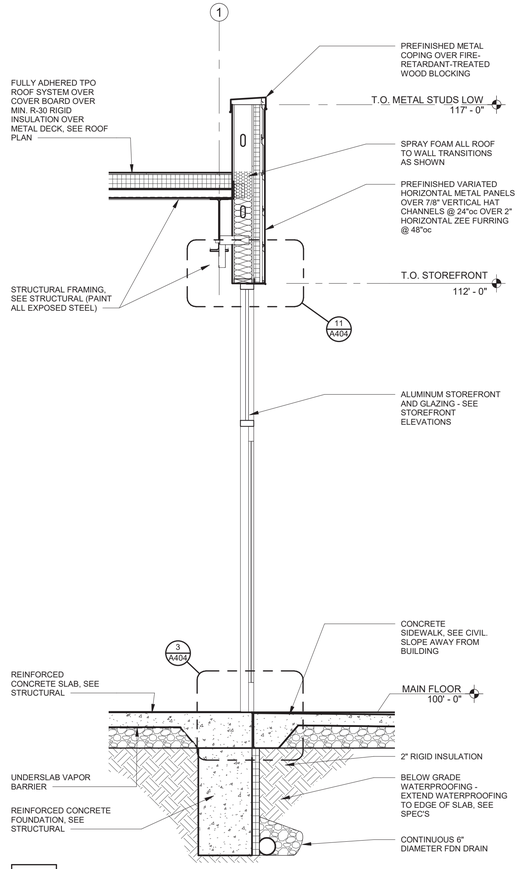
11/05/2020



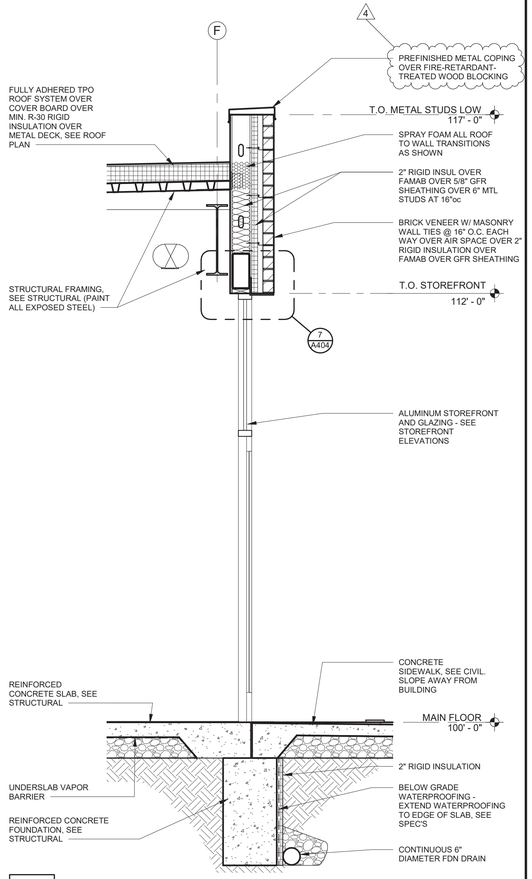

**4 WALL SECTION**
1/2" = 1'-0"




**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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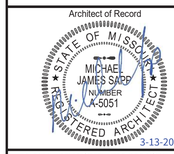
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NEW BRANCH LIBRARY

# Colbern Road Branch

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

Architect of Record




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

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

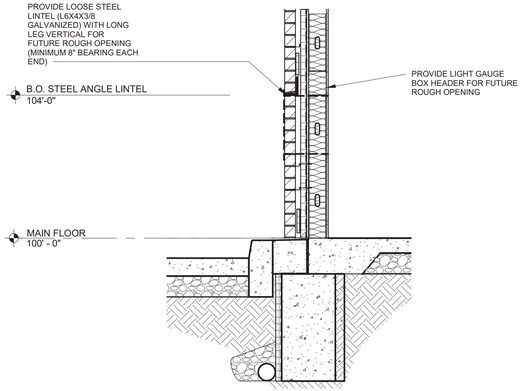
| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12-23-2019 | JDL |

Drawing No.
**A301**
**WALL SECTIONS**

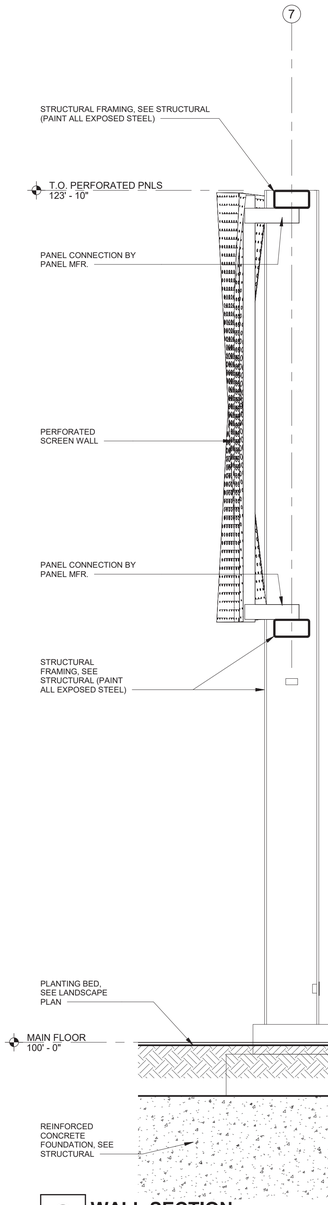

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

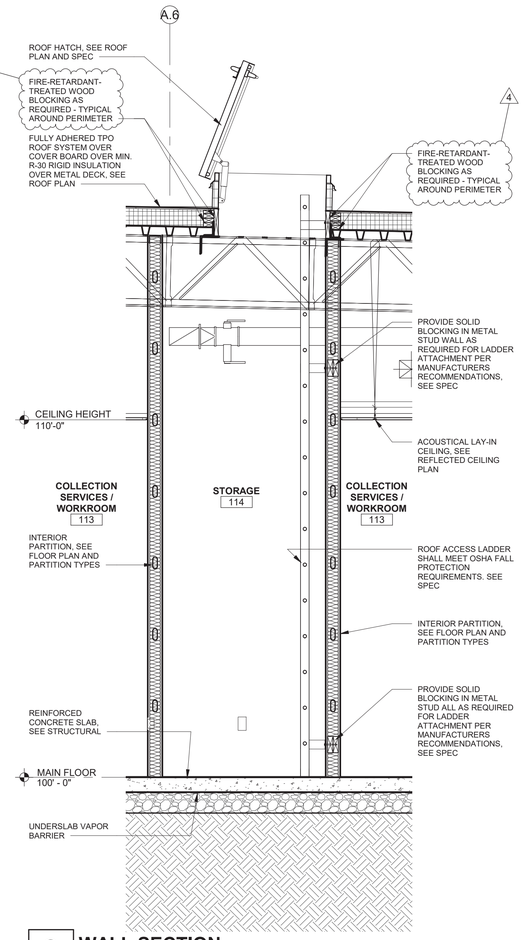
11/05/2020



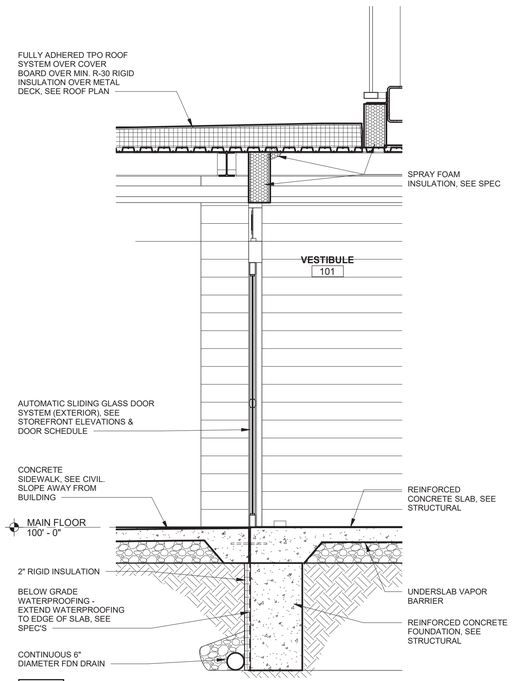

**5 WALL SECTION**
1/2" = 1'-0"



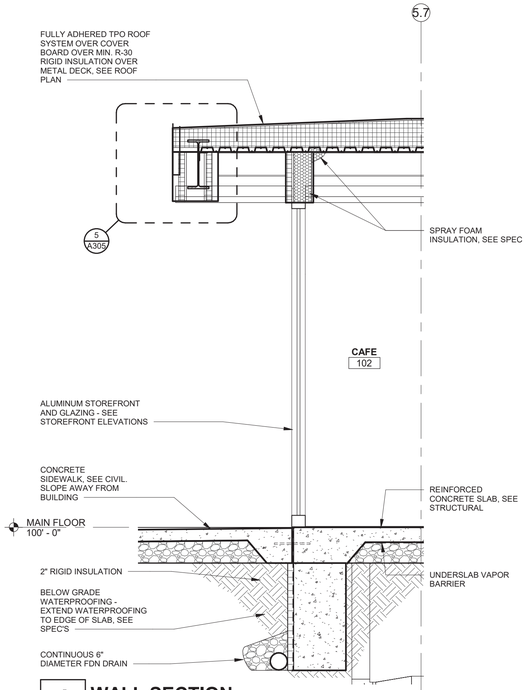

**2 WALL SECTION**
1/2" = 1'-0"




**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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# Colbern Road Branch

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LEE'S SUMMIT, MISSOURI 64086
JACKSON COUNTY

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 |

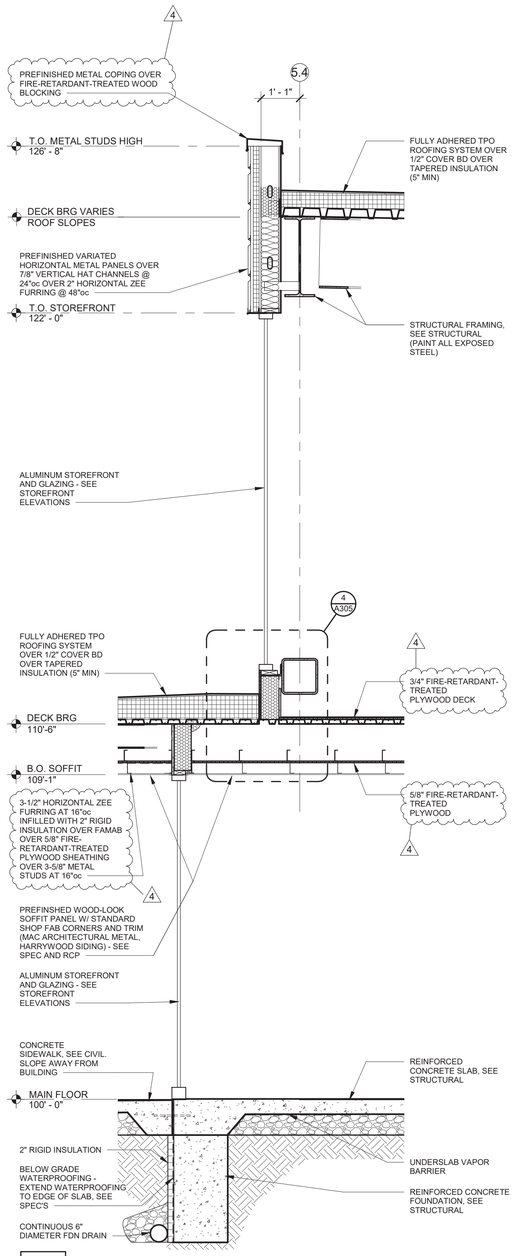
Drawing No.

**A302**
**WALL SECTIONS**

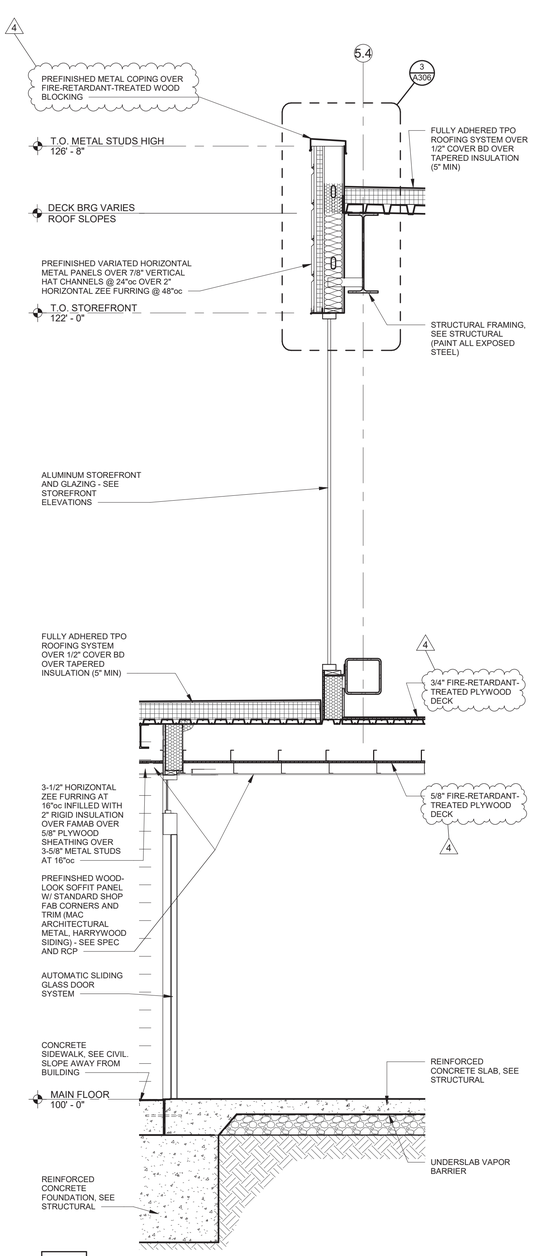

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LEE'S SUMMIT, MISSOURI

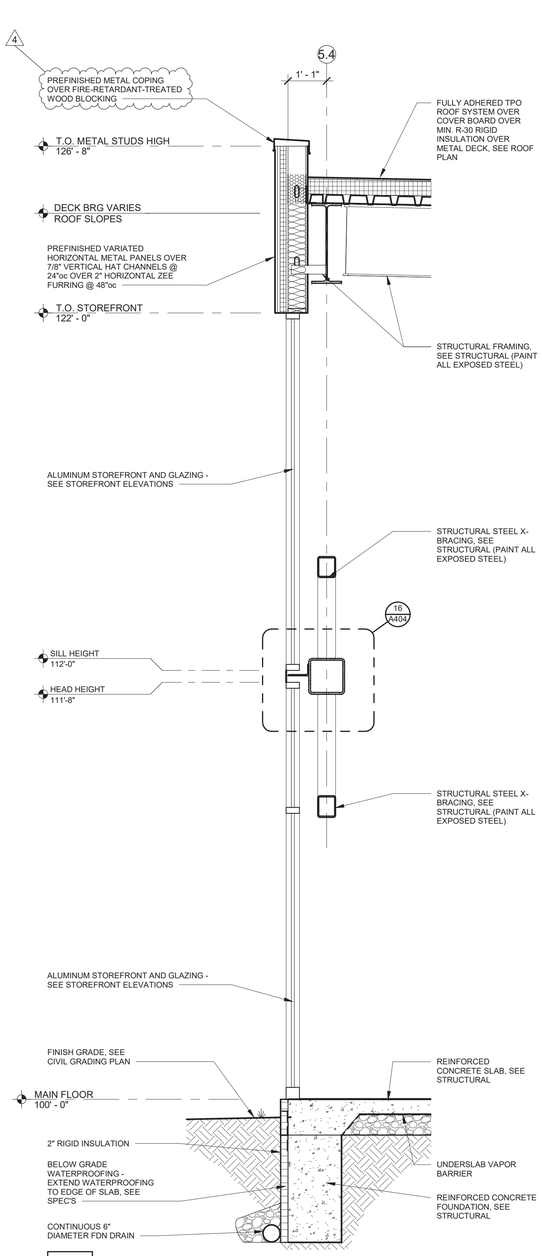
11/05/2020



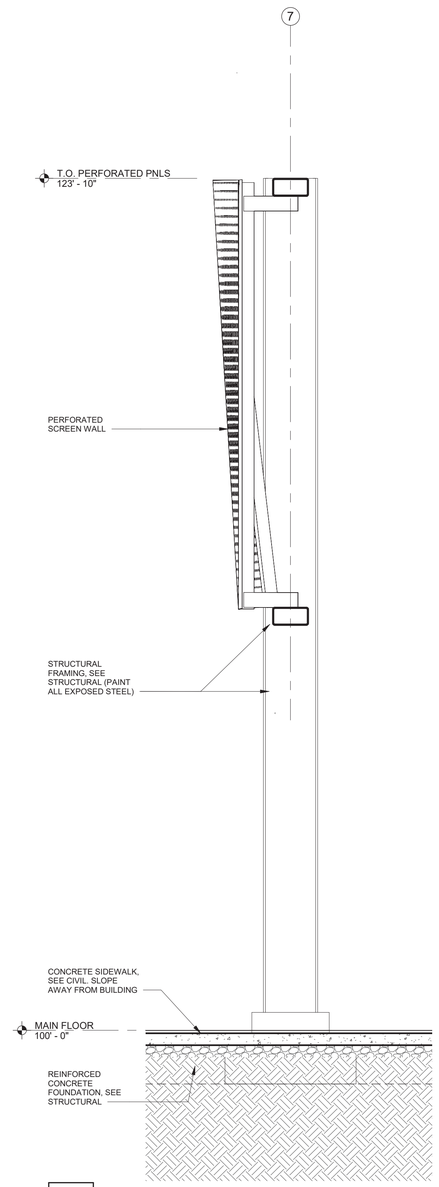

**4 WALL SECTION**
1/2" = 1'-0"




**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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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 |

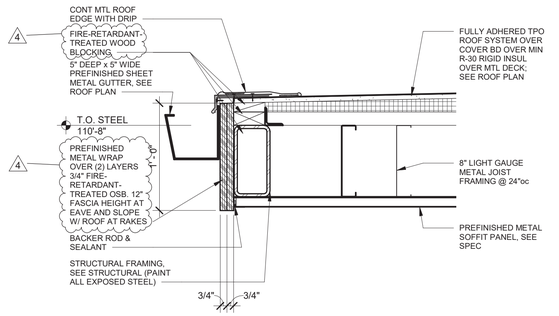
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**A303**
**WALL SECTIONS**

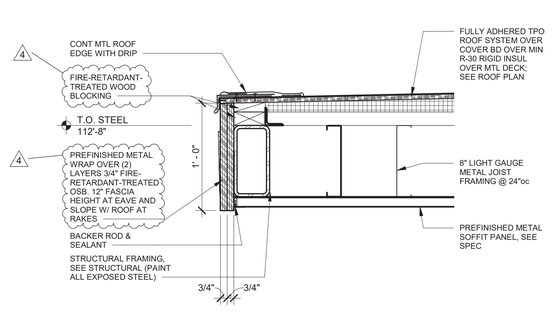

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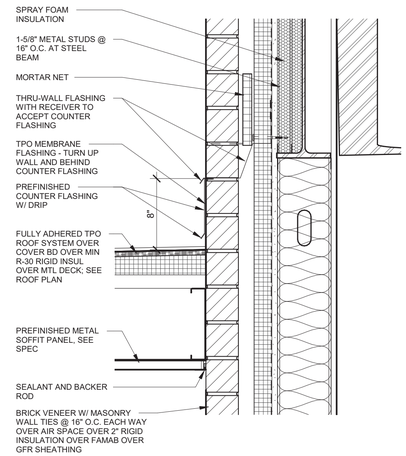
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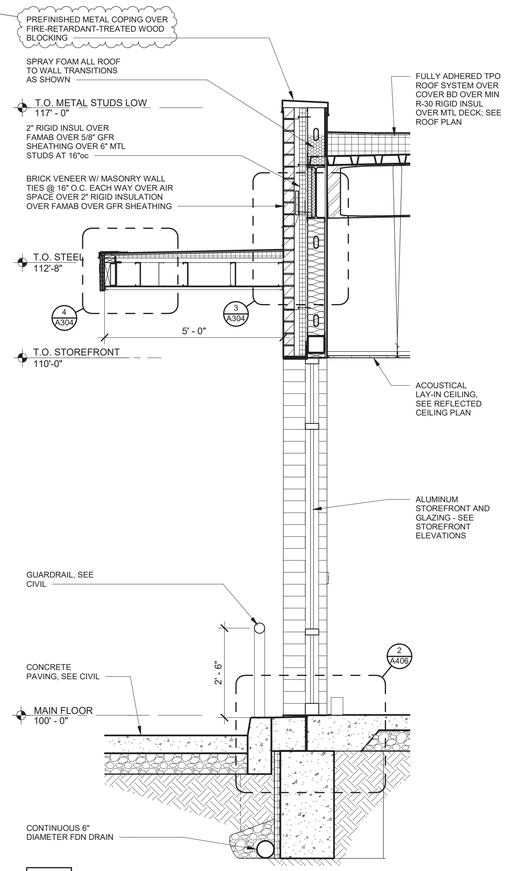

**5 DETAIL**
1 1/2" = 1'-0"



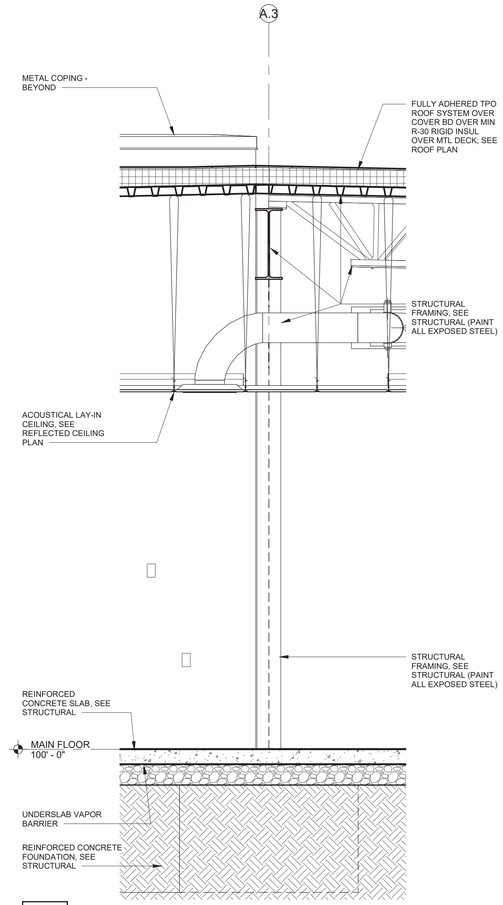

**4 DETAIL**
1 1/2" = 1'-0"




**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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JACKSON COUNTY

Architect of Record

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

Michael James Sapp, Architect MO A-5051

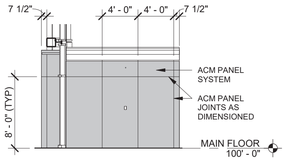
| Revision No. | Description | Date |
|---|---|---|
| 4 | ASI 02 | 03/13/20 |

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

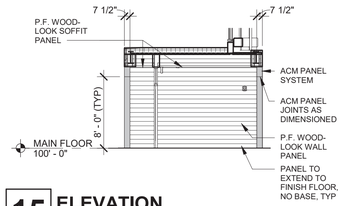
Drawing No.
**A304**
**WALL SECTIONS**


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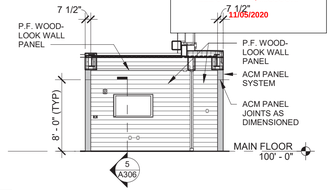
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020



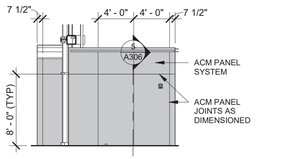

## 16 ELEVATION
1/8" = 1'-0" **@ WEST WALL CAFE OUTSIDE**



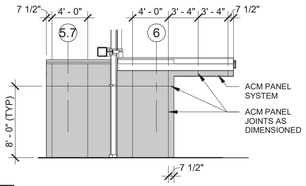

## 15 ELEVATION
1/8" = 1'-0"



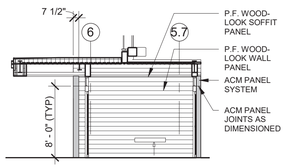

## 14 ELEVATION
1/8" = 1'-0" **@ EAST WALL CAFE INSIDE**



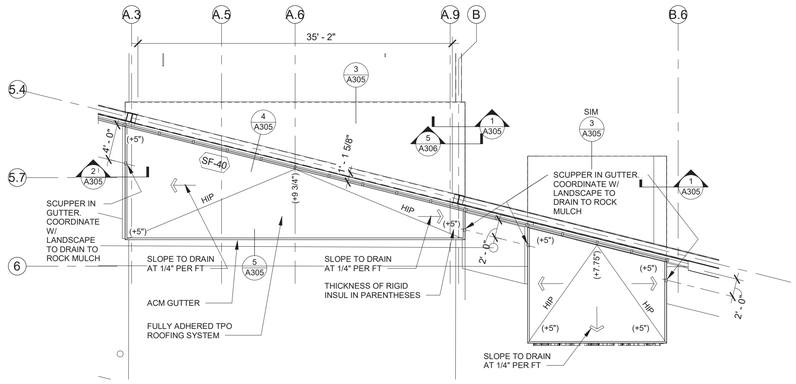

## 13 ELEVATION
1/8" = 1'-0" **@ EAST WALL CAFE OUTSIDE**



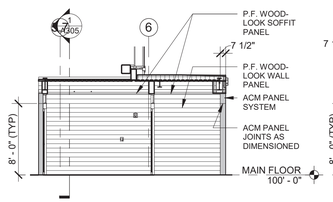

## 12 ELEVATION
1/8" = 1'-0" **@ WEST WALL VEST OUTSIDE**



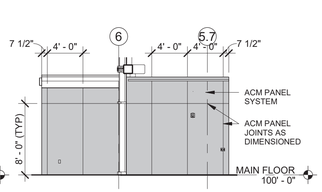

## 11 ELEVATION
1/8" = 1'-0" **@ WEST WALL VEST INSIDE**



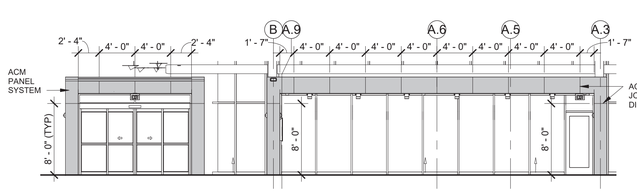

## 7 ROOF PLAN
1/8" = 1'-0" **@ VESTIBULE & CAFETERIA**



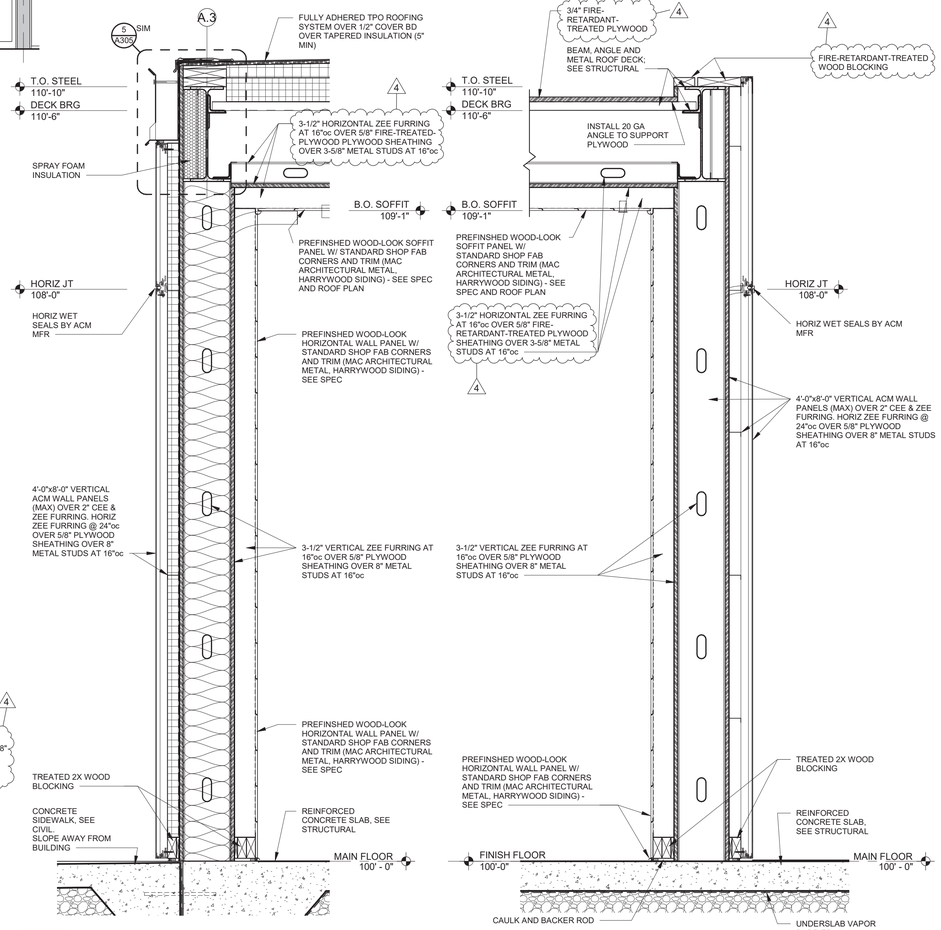

## 10 ELEVATION
1/8" = 1'-0" **@ EAST WALL VEST INSIDE**




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

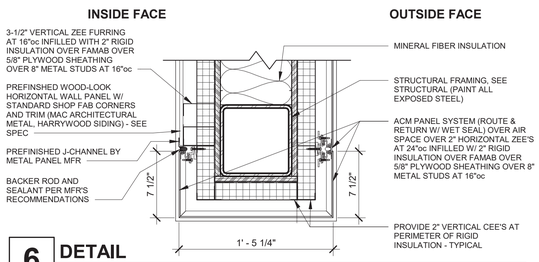



## 8 ELEVATION
1/8" = 1'-0" **LOOKING SOUTH AT CAFE 102 & VEST 101**

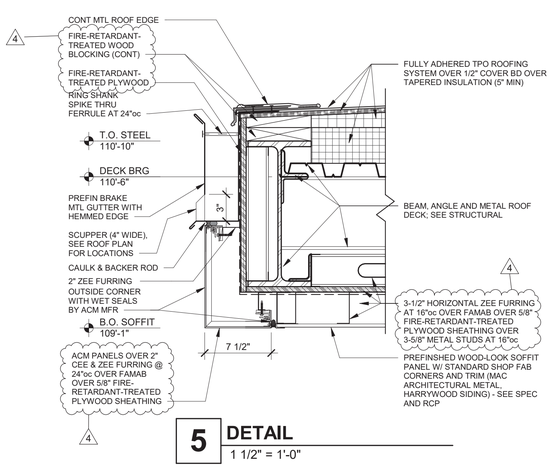



## 2 WALL SECTION
1" = 1'-0" **ACM PANELS - OUTDOORS**

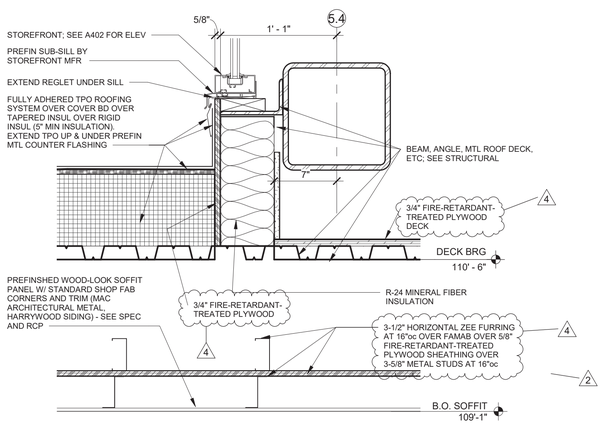
## 1 WALL SECTION
1" = 1'-0" **ACM PANELS - INDOORS**



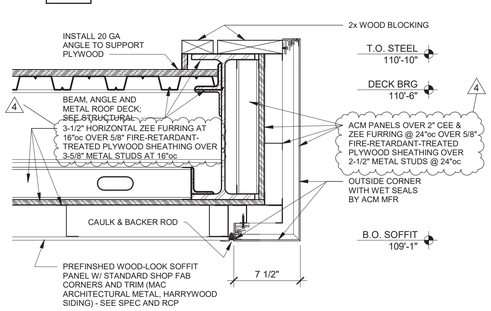

## 6 DETAIL
1 1/2" = 1'-0"




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




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




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


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JACKSON COUNTY

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 |

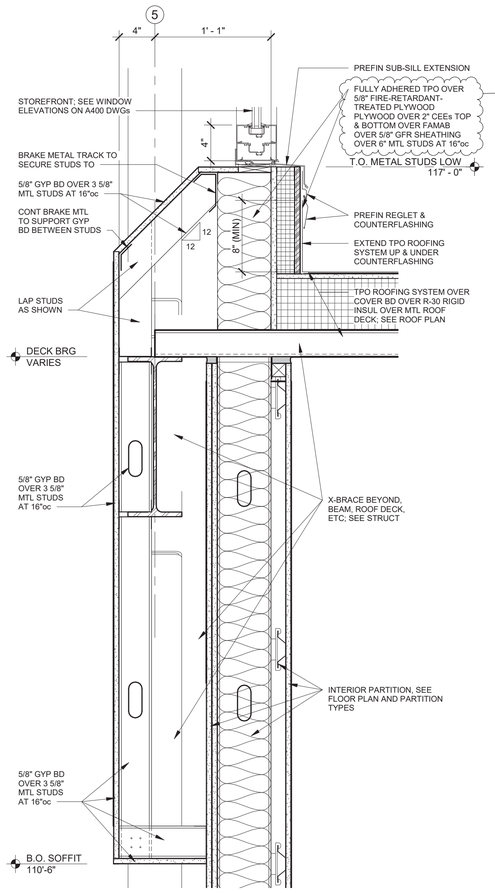
| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12-23-2019 | JDL |

Drawing No.
**A305**
WALL SECTIONS

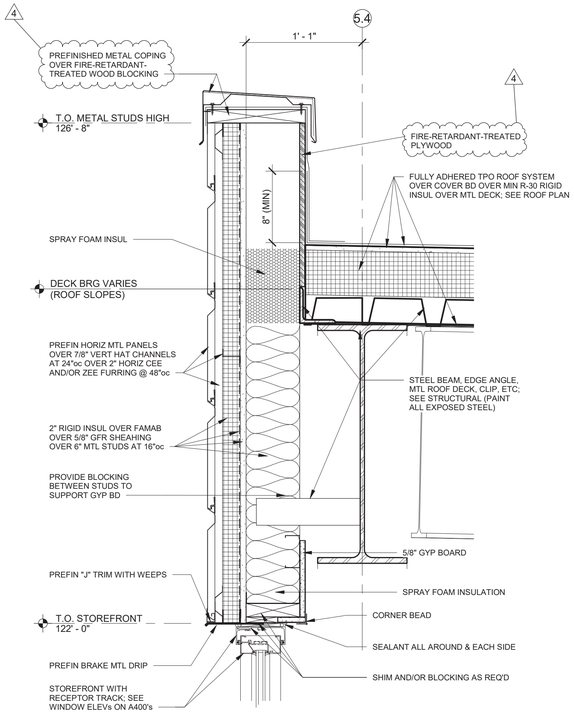

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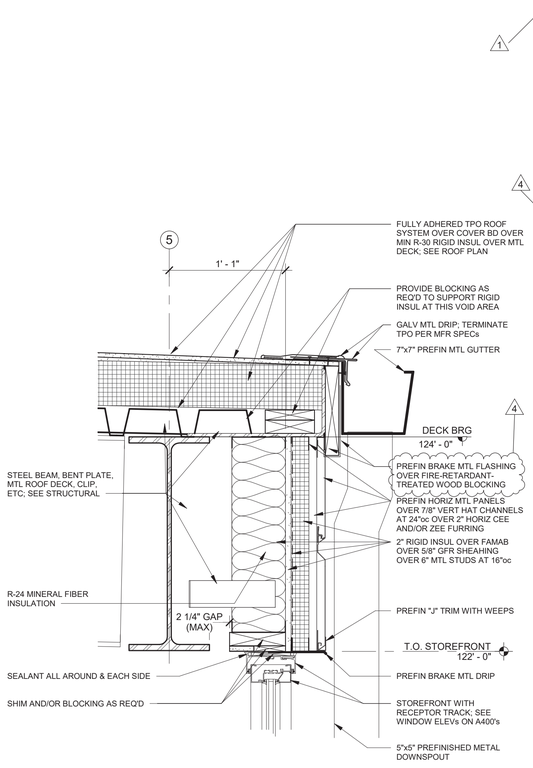
11/05/2020



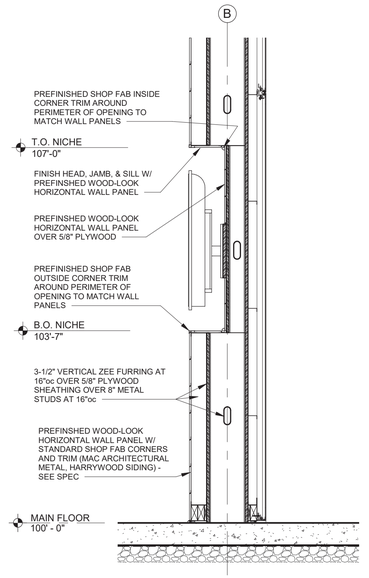

**4 DETAIL**
1 1/2" = 1'-0" **OF BULKHEAD @ LOW ROOF**



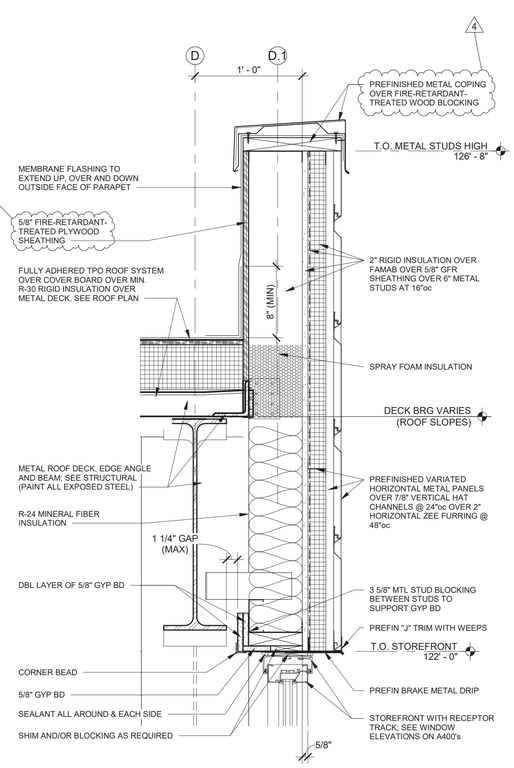

**3 DETAIL**
1 1/2" = 1'-0" **OF PARAPET AT GRID 5.4**




**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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JACKSON COUNTY

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 |

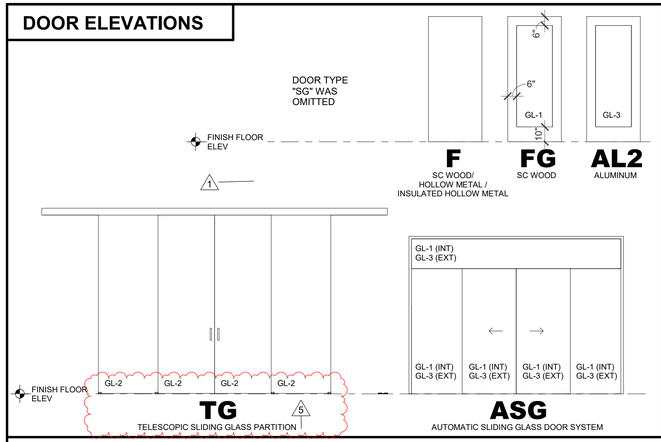
| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12-23-2019 | JDL |

Drawing No.
**A306**
**DETAILS**

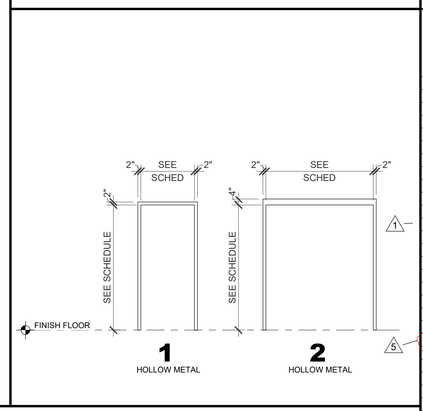

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020

## 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

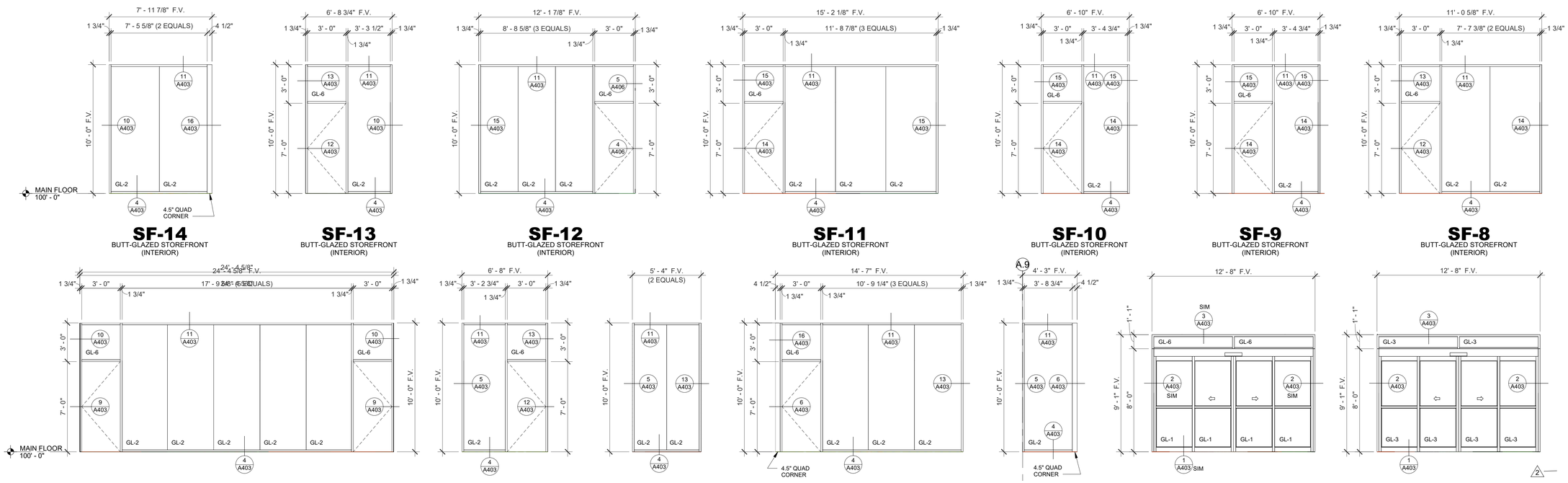
AL = ALUM DOOR OR FRAME
FRP = FIBERGLASS REINFORCED POLYESTER
HM = HOLLOW METAL DOOR OR FRAME
IHM = INSUL HOLLOW MTL DOOR OR FRAME
WD = SOLID CORE WOOD DOOR OR FRAME

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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Architect of Record
STATE OF MISSOURI
MICHAEL JAMES SAPP
NUMBER A-5051
REGISTERED ARCHITECT
3-26-2020
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 |

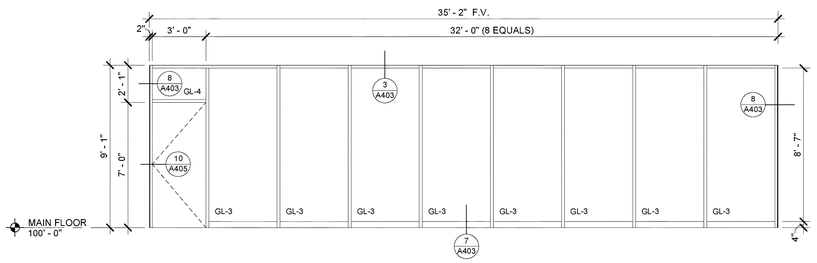
Drawing No.
**A400**
**DOOR SCHEDULE & ELEVATIONS**


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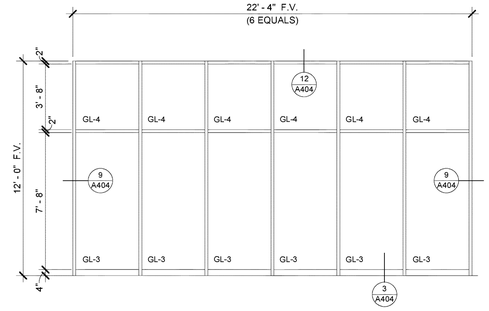
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

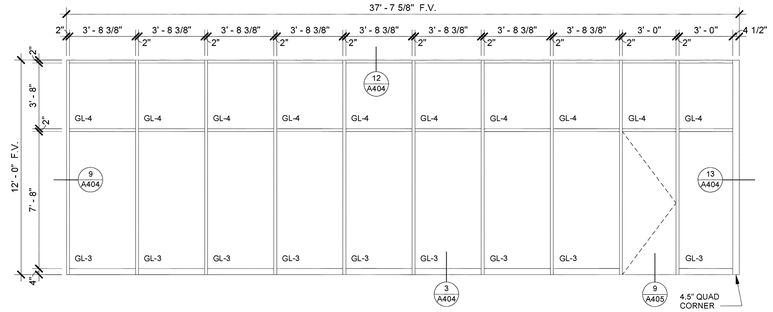
# STOREFRONT ELEVATIONS



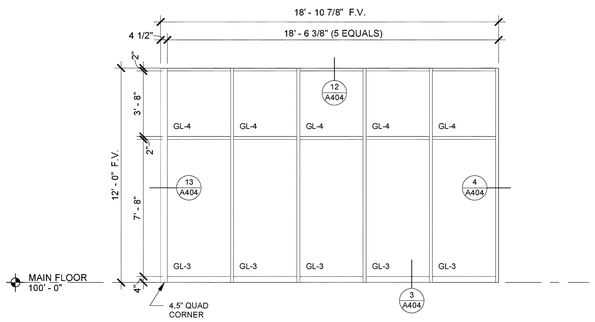

**SF-31**
EXTERIOR STOREFRONT



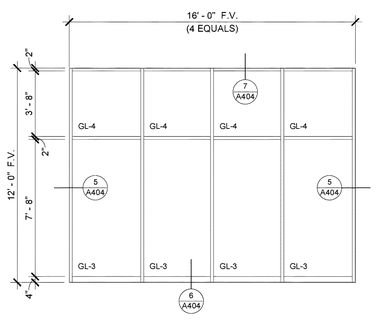

**SF-30**
EXTERIOR STOREFRONT



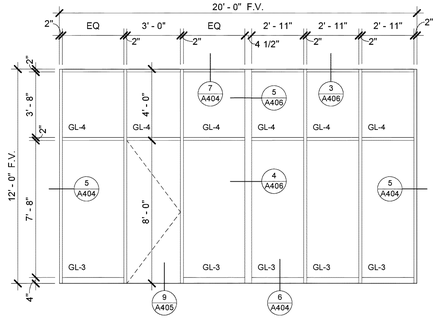

**SF-29**
EXTERIOR STOREFRONT



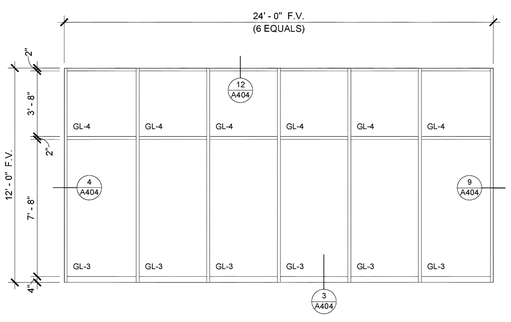

**SF-28**
EXTERIOR STOREFRONT



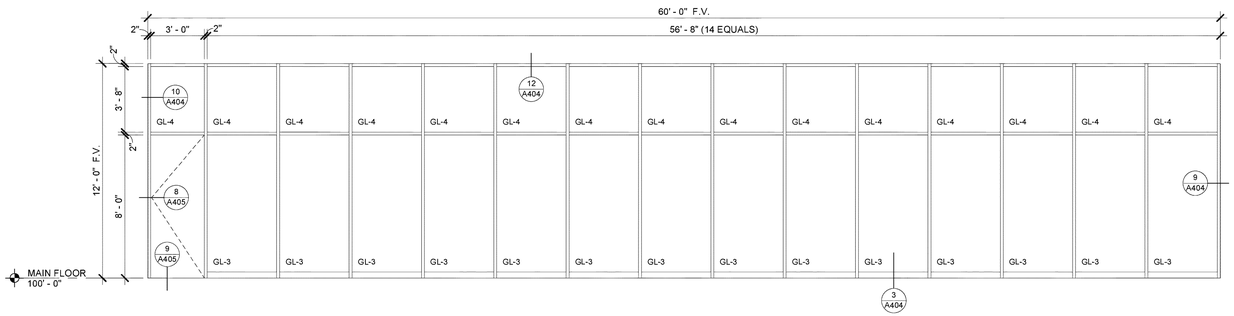

**SF-27**
EXTERIOR STOREFRONT



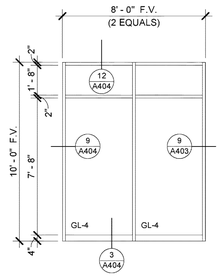

**SF-26**
EXTERIOR STOREFRONT



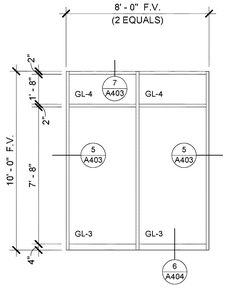

**SF-25**
EXTERIOR STOREFRONT



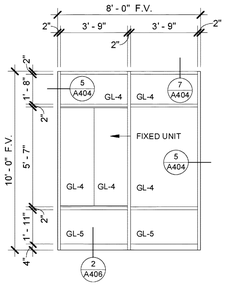

**SF-24**
EXTERIOR STOREFRONT



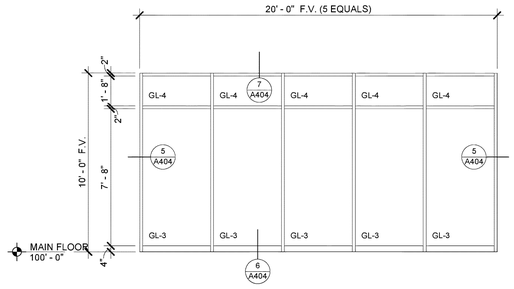

**SF-23**
EXTERIOR STOREFRONT



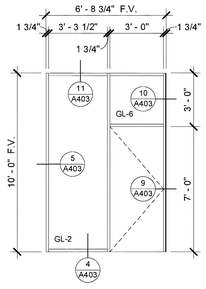

**SF-22**
EXTERIOR STOREFRONT



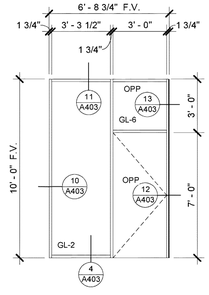

**SF-21**
EXTERIOR STOREFRONT



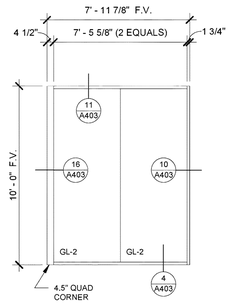

**SF-20**
EXTERIOR STOREFRONT



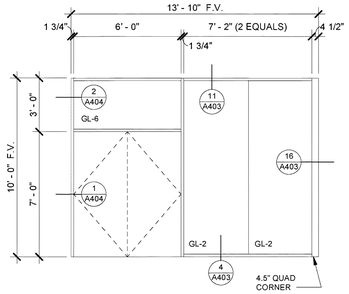

**SF-19**
BUTT-GLAZED STOREFRONT
(INTERIOR)



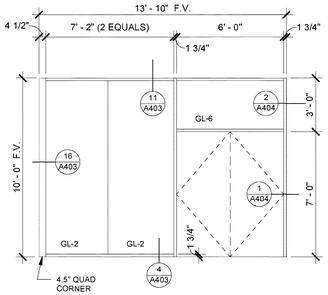

**SF-18**
BUTT-GLAZED STOREFRONT
(INTERIOR)




**SF-17**
BUTT-GLAZED STOREFRONT
(INTERIOR)




**SF-16**
BUTT-GLAZED STOREFRONT
(INTERIOR)




**SF-15**
BUTT-GLAZED STOREFRONT
(INTERIOR)


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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 |

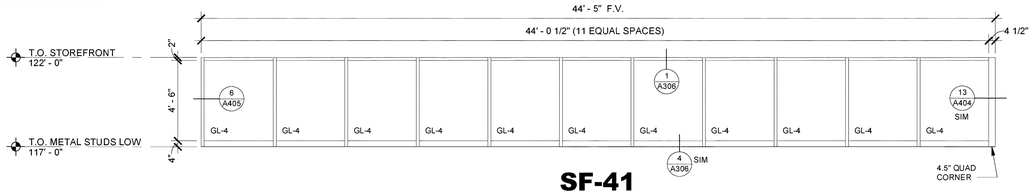
Drawing No.

**A401**
**STOREFRONT ELEVATIONS**

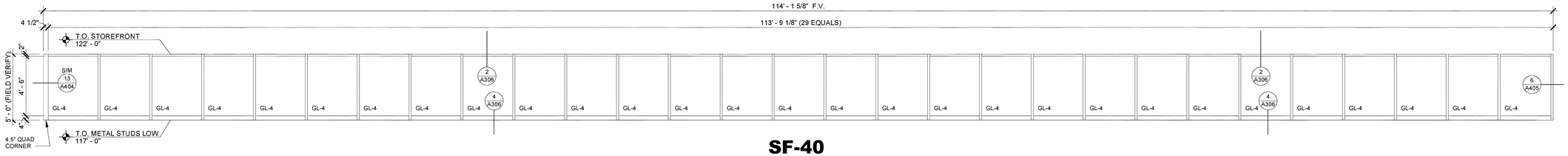

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11/05/2020

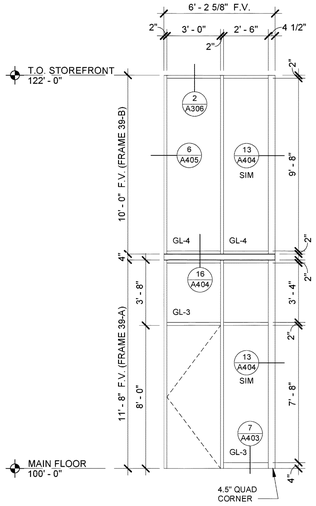
# STOREFRONT ELEVATIONS



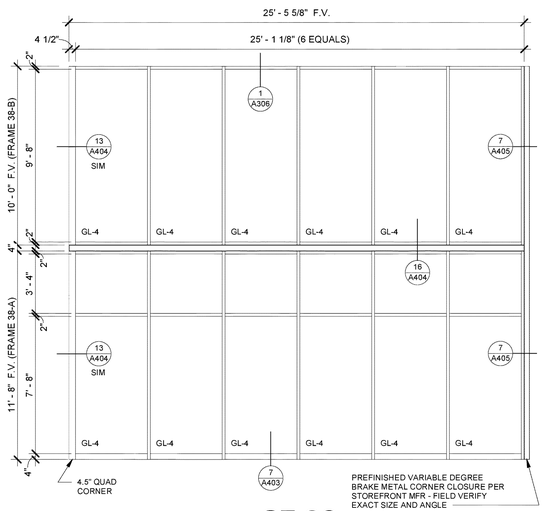

## SF-41
EXTERIOR STOREFRONT



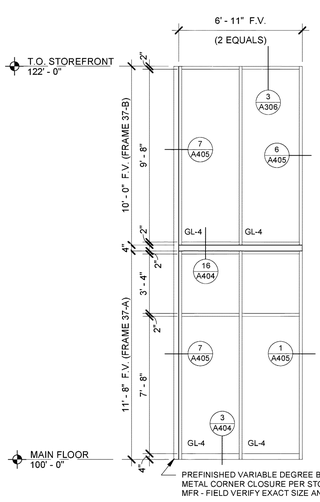

## SF-40
EXTERIOR STOREFRONT



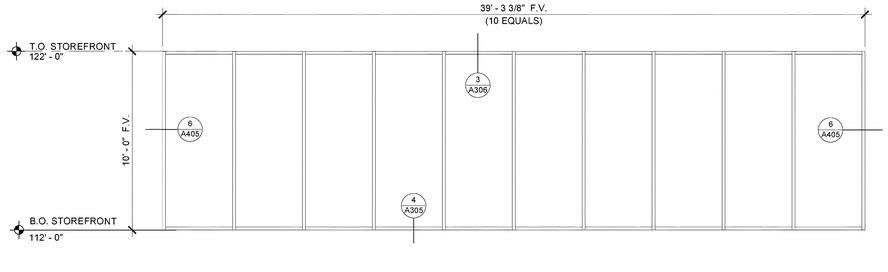

## SF-39
EXTERIOR STOREFRONT



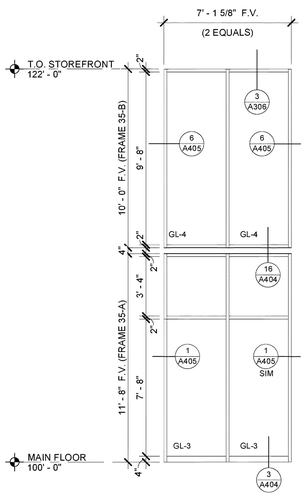

## SF-38
EXTERIOR STOREFRONT



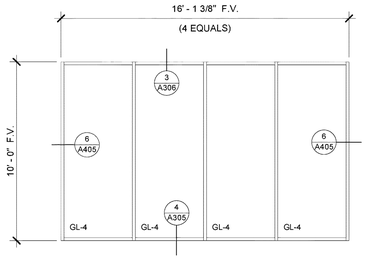

## SF-37
EXTERIOR STOREFRONT



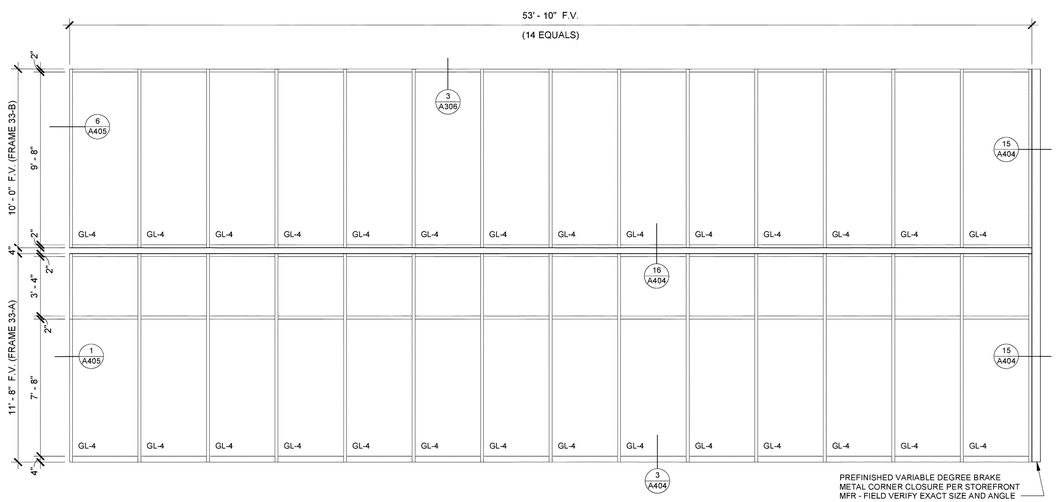

## SF-36
EXTERIOR STOREFRONT



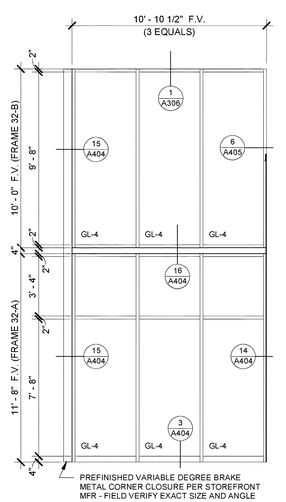

## SF-35
EXTERIOR STOREFRONT




## SF-34
EXTERIOR STOREFRONT




## SF-33
EXTERIOR STOREFRONT




## SF-32
EXTERIOR STOREFRONT


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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 |
|---|---|---|

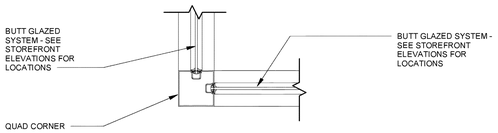
| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12-23-2019 | JDL |

Drawing No.
**A402**
**STOREFRONT ELEVATIONS**

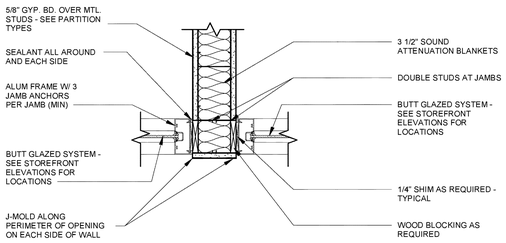
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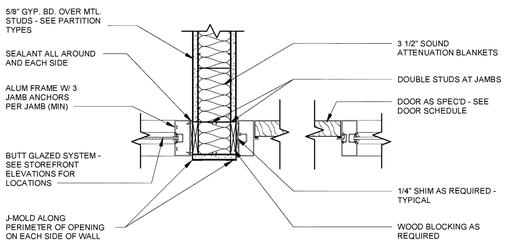
11/05/2020



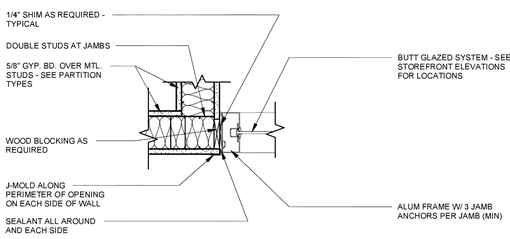

## 16 STOREFRONT JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



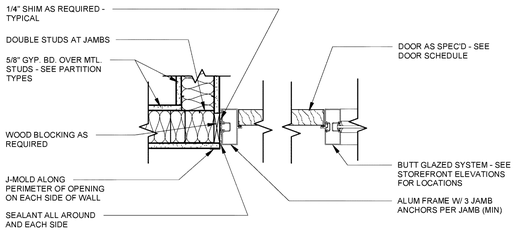

## 15 STOREFRONT JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



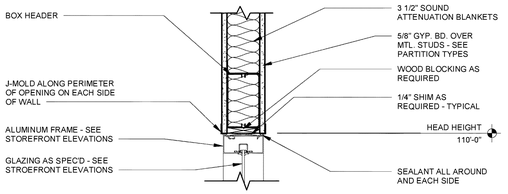

## 14 STOREFRONT/DOOR JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



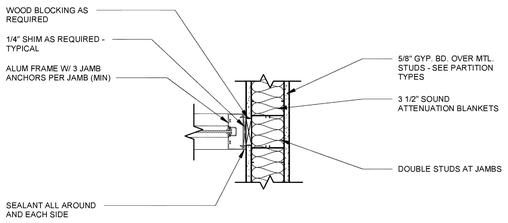

## 13 STOREFRONT JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



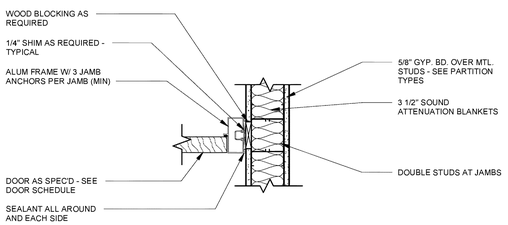

## 12 STOREFRONT/DOOR JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**




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

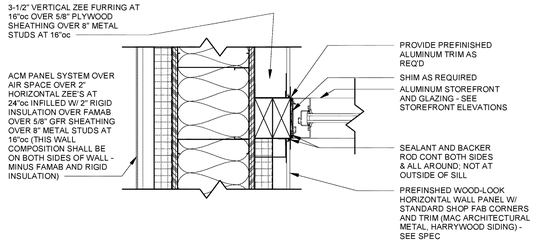



## 10 STOREFRONT JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



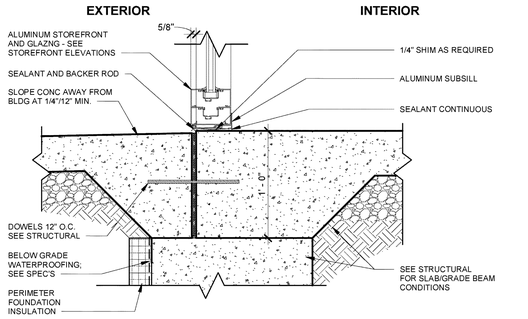

## 9 DOOR JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**

## EXTERIOR INTERIOR

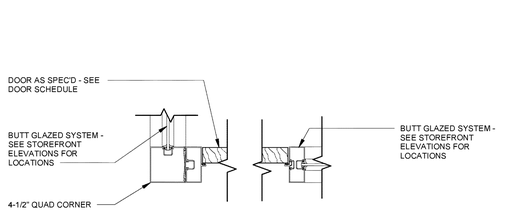



## 8 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**

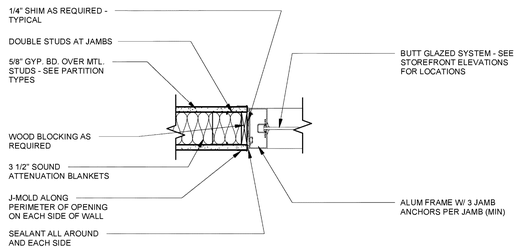
## EXTERIOR INTERIOR



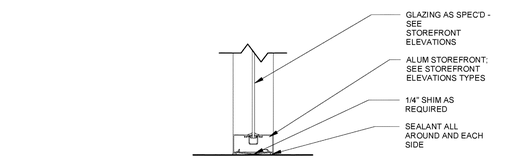

## 7 STOREFRONT SILL
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**




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

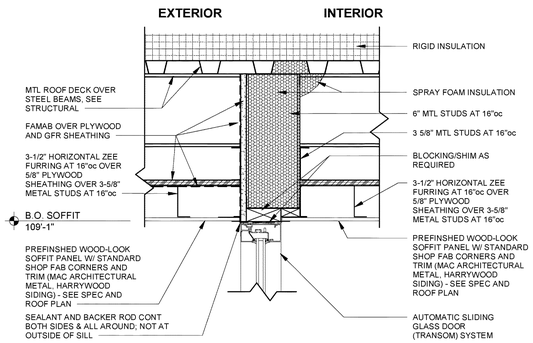



## 5 STOREFRONT JAMB
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



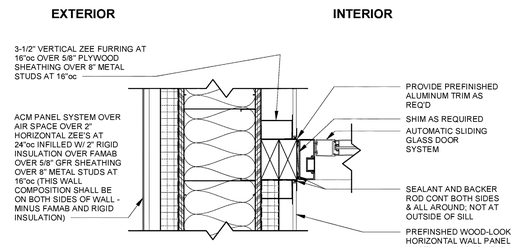

## 4 STOREFRONT SILL
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**

## EXTERIOR INTERIOR



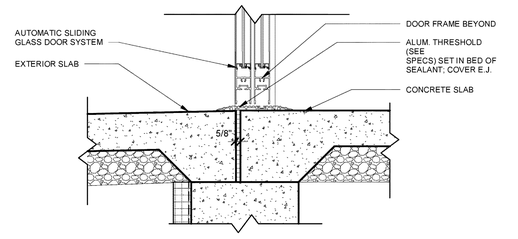

## 3 STOREFRONT HEAD
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**

## 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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| Revision No. | Description | Date |
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| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12-23-2019 | JDL |

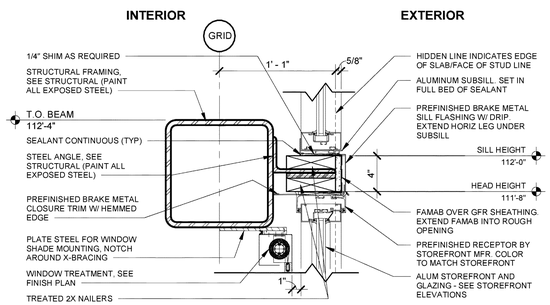
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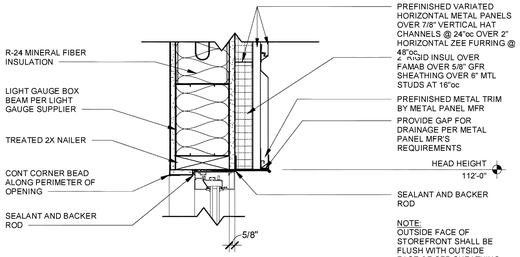
**HEAD, JAMB, AND SILL DETAILS**


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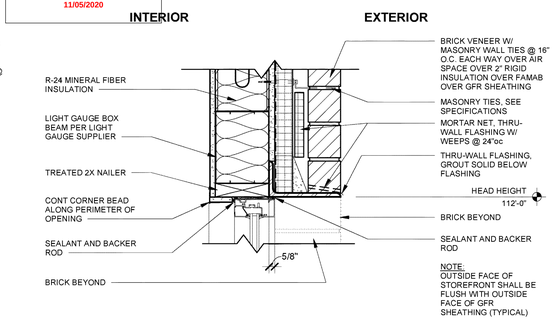
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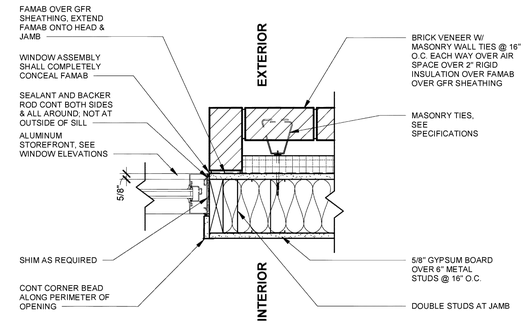

**16 STOREFRONT HEAD/SILL**
1 1/2" = 1'-0"



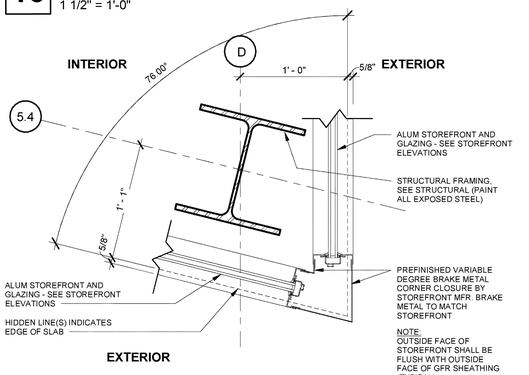

**12 STOREFRONT HEAD**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



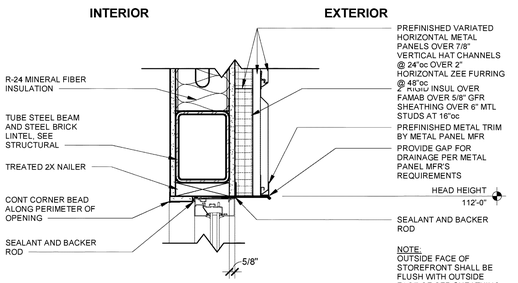

**8 STOREFRONT HEAD**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



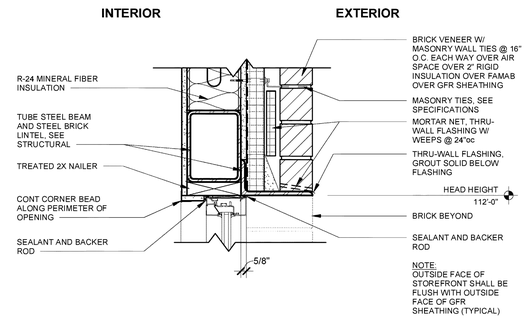

**4 STOREFRONT JAMB**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



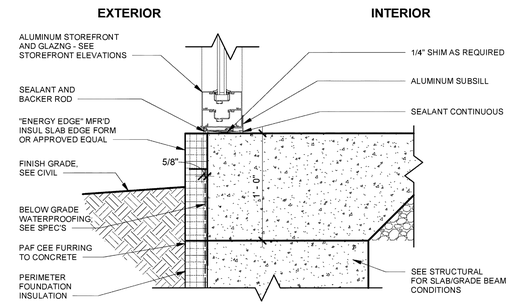

**15 STOREFRONT JAMB**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



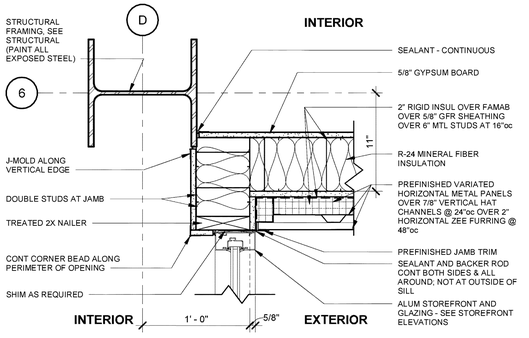

**11 STOREFRONT HEAD**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



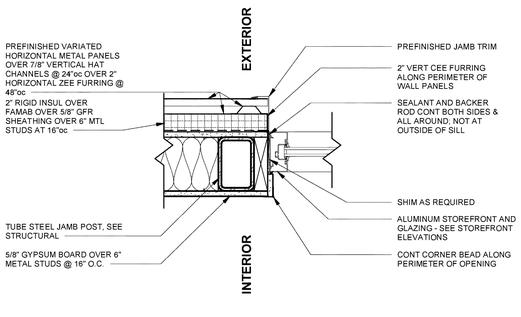

**7 STOREFRONT HEAD**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



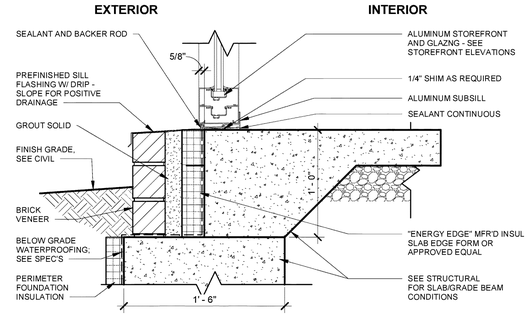

**3 STOREFRONT SILL**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



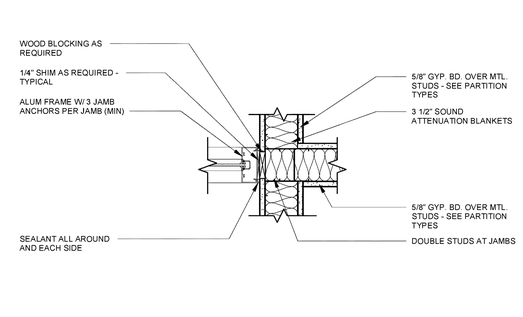

**14 STOREFRONT JAMB**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



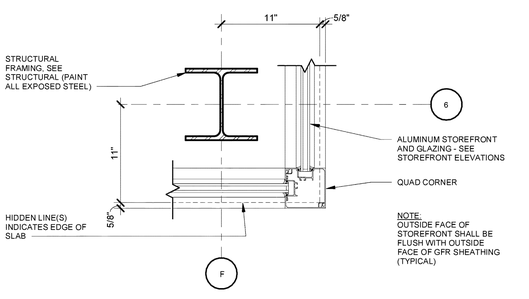

**10 STOREFRONT JAMB**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



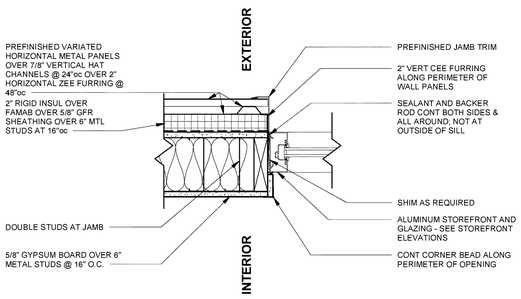

**6 STOREFRONT SILL**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**



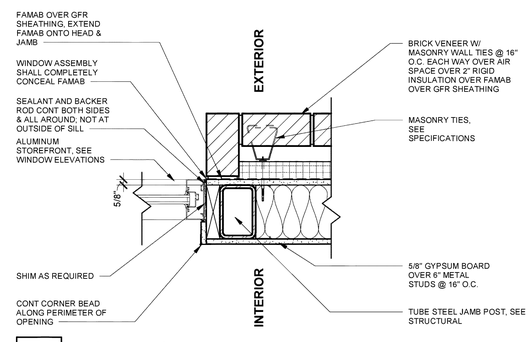

**2 STOREFRONT JAMB**
1 1/2" = 1'-0" **BUTT GLAZED STOREFRONT**



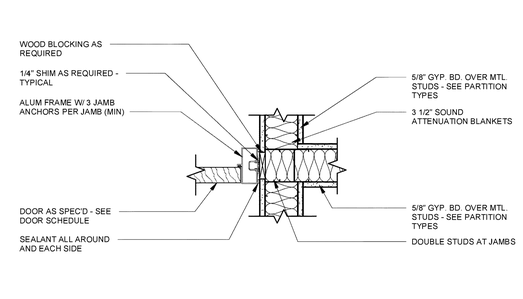

**13 STOREFRONT JAMB**
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**




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




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




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


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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

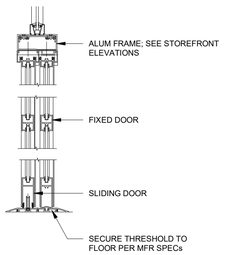
| Revision No. | Description | Date |
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| Project No. | Date | Drawn |
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| WP10 | 12-23-2019 | JDL |

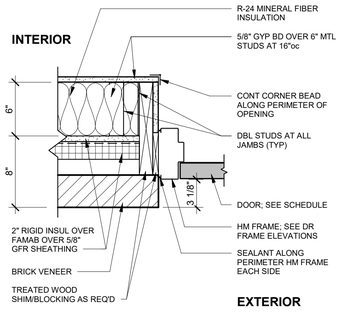
Drawing No.
**A404**
**HEAD, JAMB, AND SILL DETAILS**


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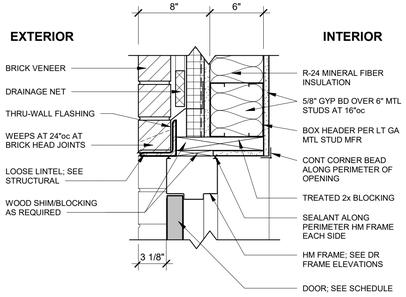
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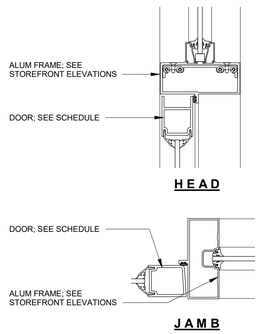

## 16 HEAD/THRESHOLD @ SLIDING DOORS
1 1/2" = 1'-0"



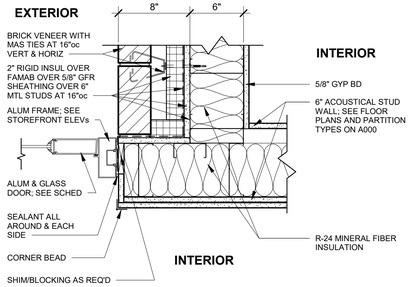

## 15 HM DR JAMB @ BRICK & MTL STUD
1 1/2" = 1'-0"



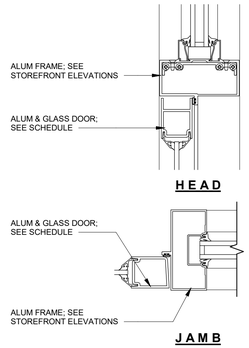

## 14 HM DR HEAD @ BRICK & MTL STUD
1 1/2" = 1'-0"



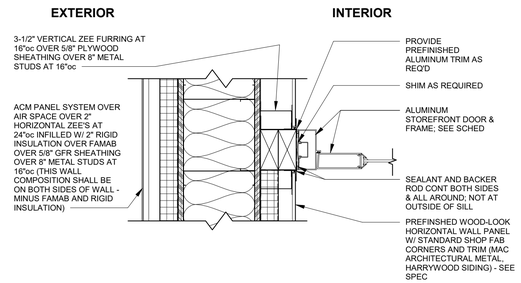

## 13 HEAD & JAMB - ALUM DR @ STOREFRONT
3" = 1'-0" **INTERIOR STOREFRONT**



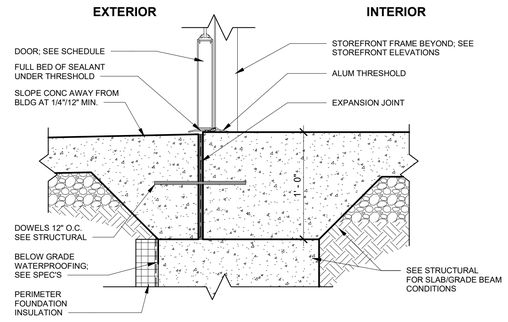

## 12 JAMB - ALUM DR @ BRK & MTL STUD
1 1/2" = 1'-0"



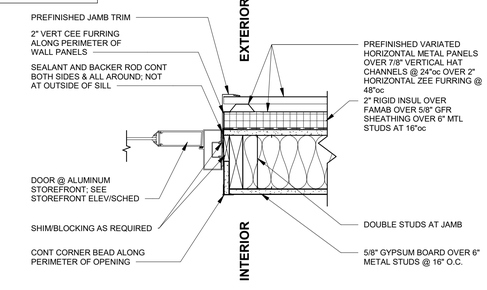

## 11 HEAD & JAMB - ALUM DR @ STOREFRONT
3" = 1'-0" **EXTERIOR STOREFRONT**



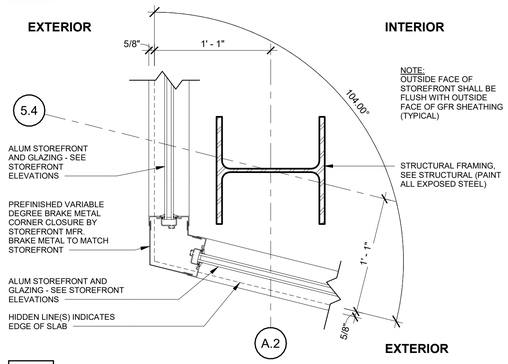

## 10 JAMB - ALUM DR @ ACM
1 1/2" = 1'-0"



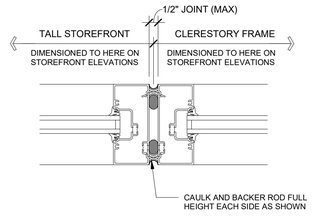

## 9 DOOR THRESHOLD
1 1/2" = 1'-0"



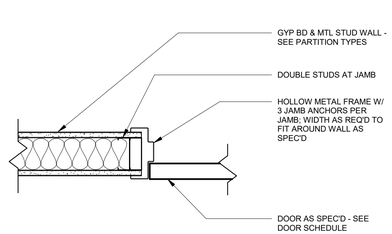

## 8 DOOR @ STOREFRONT JAMB
1 1/2" = 1'-0" **@ HORIZ MTL WALL PANEL**



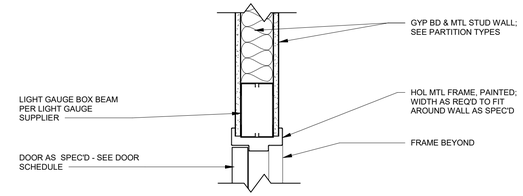

## 7 STOREFRONT JAMB
1 1/2" = 1'-0" **EXTERIOR STOREFRONT**




## 6 STOREFRONT JAMB
3" = 1'-0" **WHERE CLERESTORY FRAME MEETS TALL FRAME**

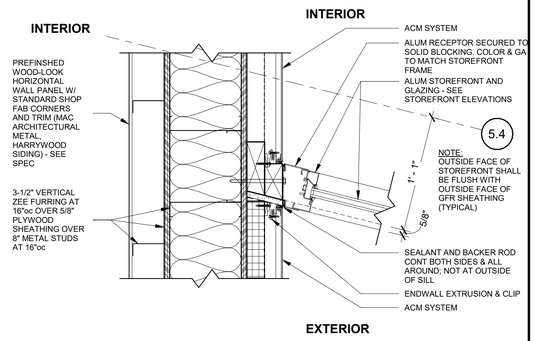



## 5 DOOR JAMB
1 1/2" = 1'-0" **HOLLOW METAL**




## 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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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 |

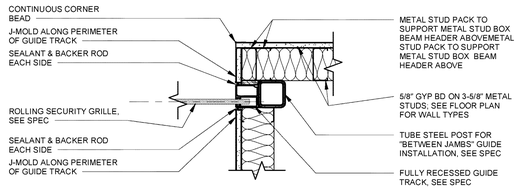
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Drawing No.
**A405**
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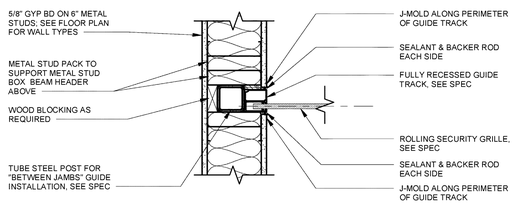
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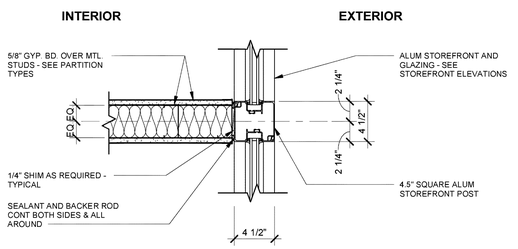

## 7 DOOR JAMB

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



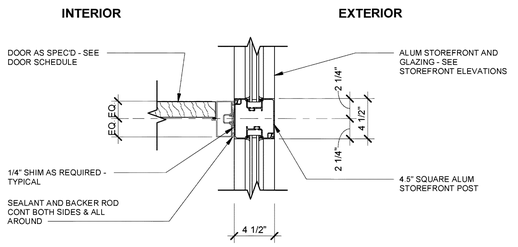

## 6 DOOR JAMB

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



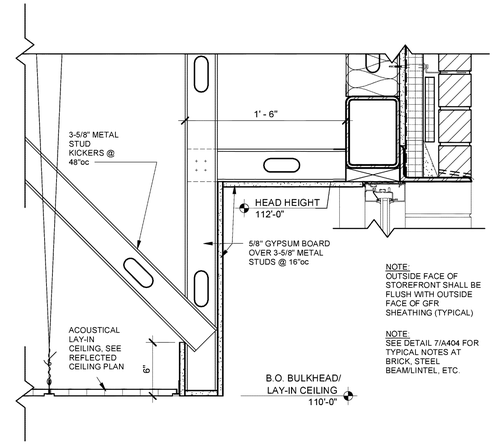

## 5 STOREFRONT JAMB

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



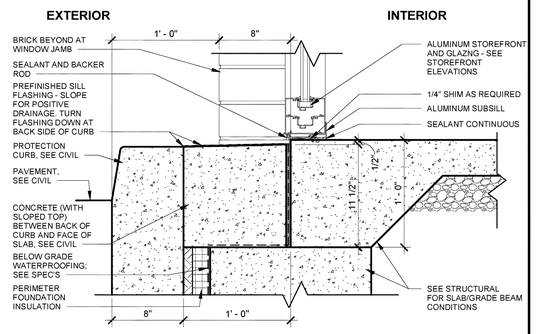

## 4 STOREFRONT JAMB

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



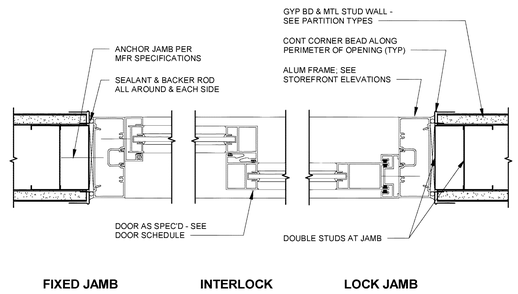

## 3 STOREFRONT HEAD

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 |
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| WP10 | 12-23-2019 | JDL |

Drawing No.

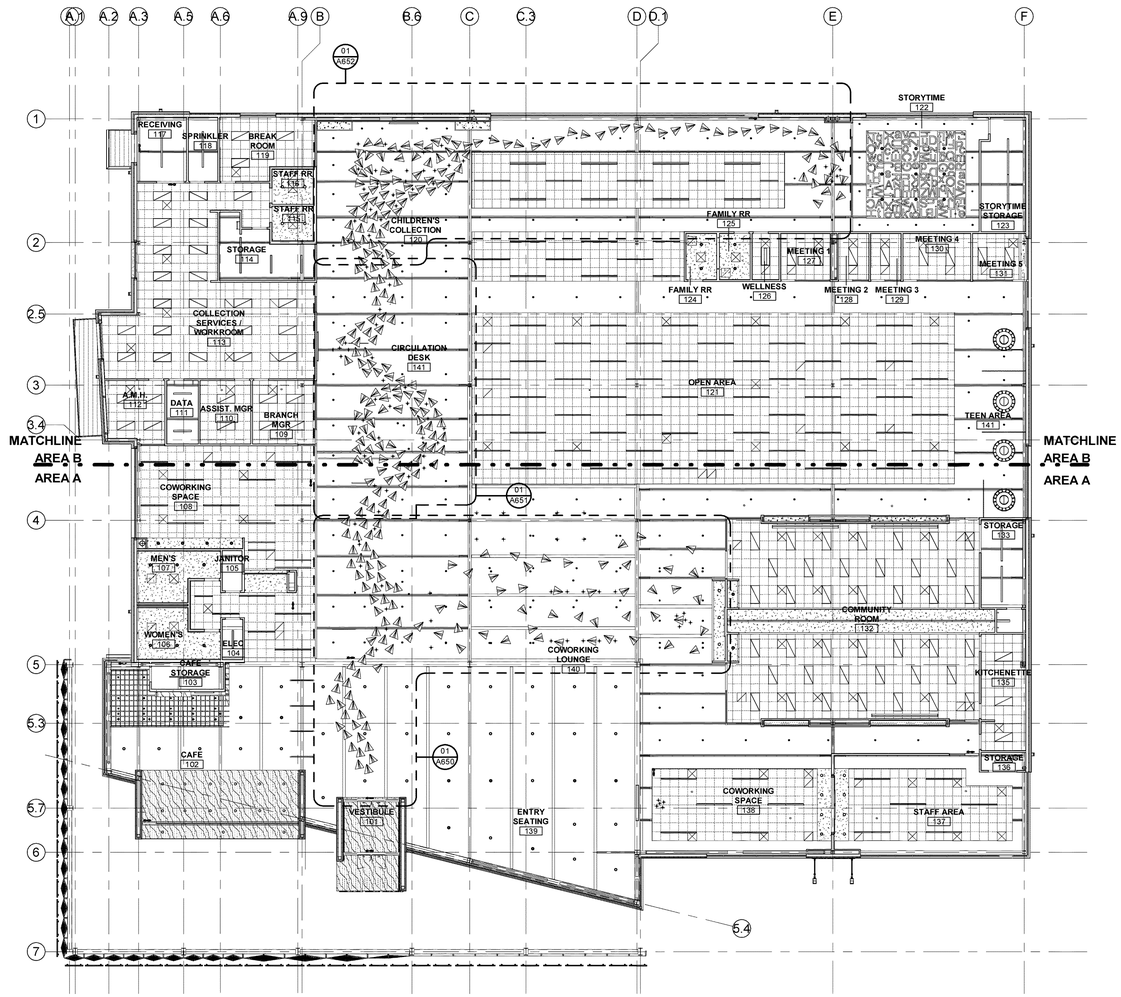
**A406**

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




## 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
101
C-3 10'-10"

- ROOM NAME
- ROOM NUMBER
- 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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Kansas City, MO 64108 816.300.0300
Helix Architecture + Design
Missouri State Certificate of Authority #000720


### SPECIAL NOTICES

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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 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.
A600
OVERALL REFLECTED CEILING PLAN

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LEE'S SUMMIT, MISSOURI

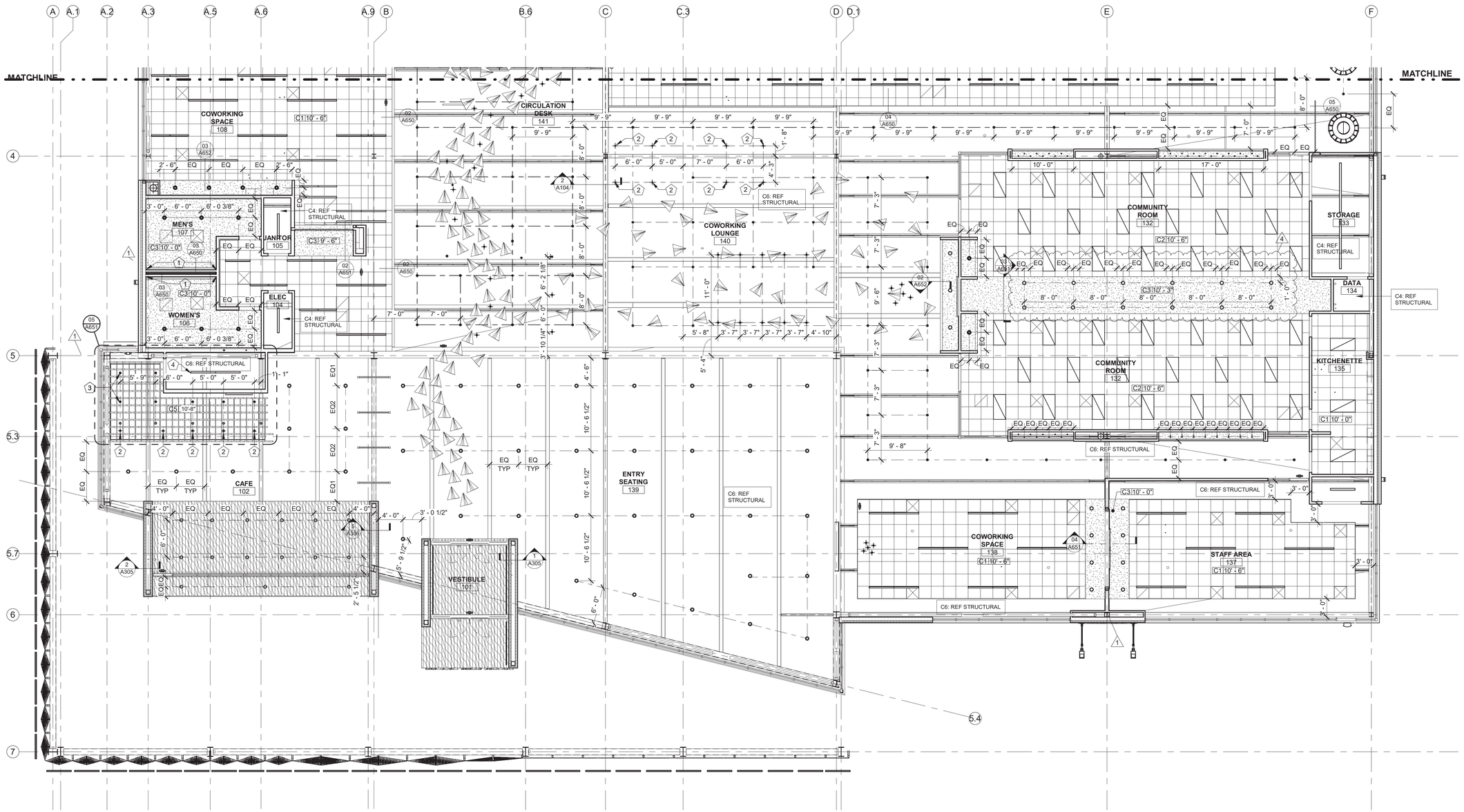
11/05/2020

## 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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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 |
| 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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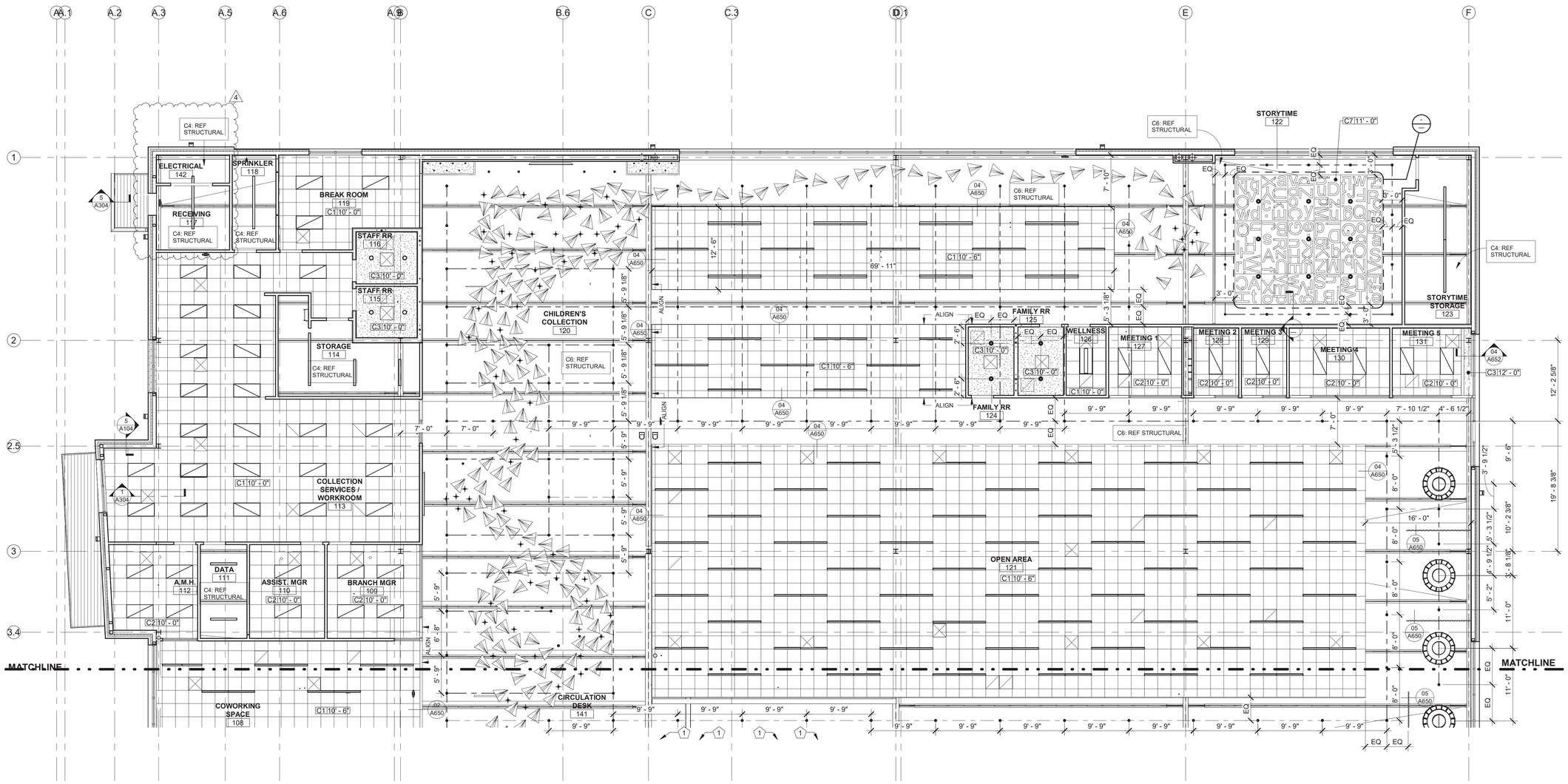
11/05/2020

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

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.

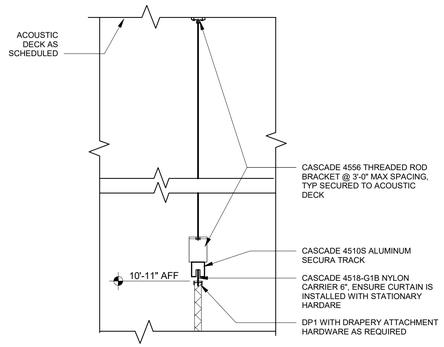
**A602**

REFLECTED CEILING PLAN - AREA B


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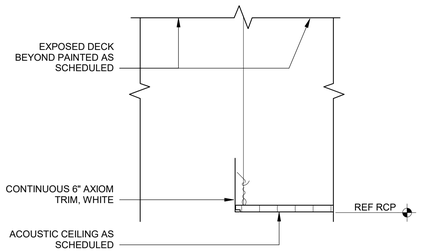
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11/05/2020



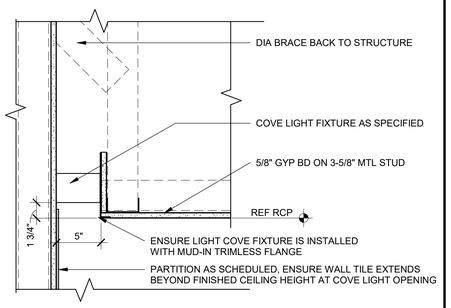

## 05 RCP DETAIL @ COIL DRAPERY TRACK

1 1/2" = 1'-0"




## 04 RCP DETAIL @ ACT TO EXPOSED DECK

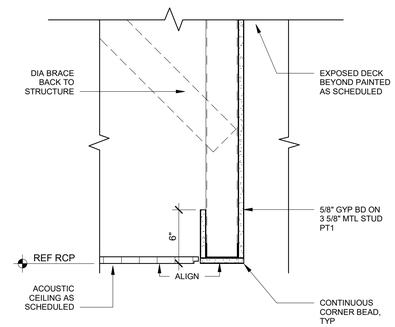
1 1/2" = 1'-0"




* NOTE: COVE SHOULD EXTEND ENTIRE LENGTH OF WALL.

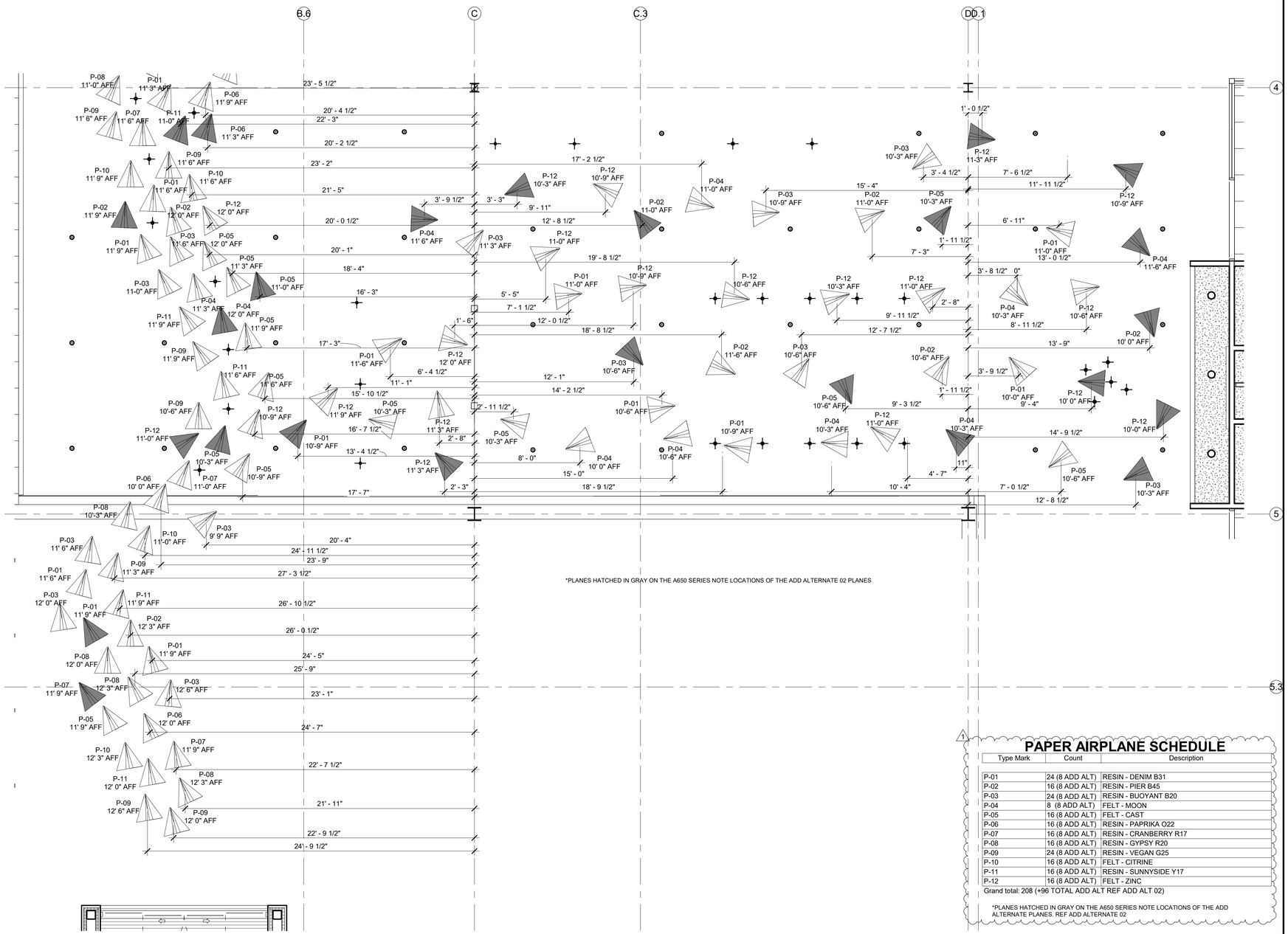
## 03 RCP DETAIL @ COVE LIGHT

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 |
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| 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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| 1 | ADDENDUM 01 | 01/13/20 |

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

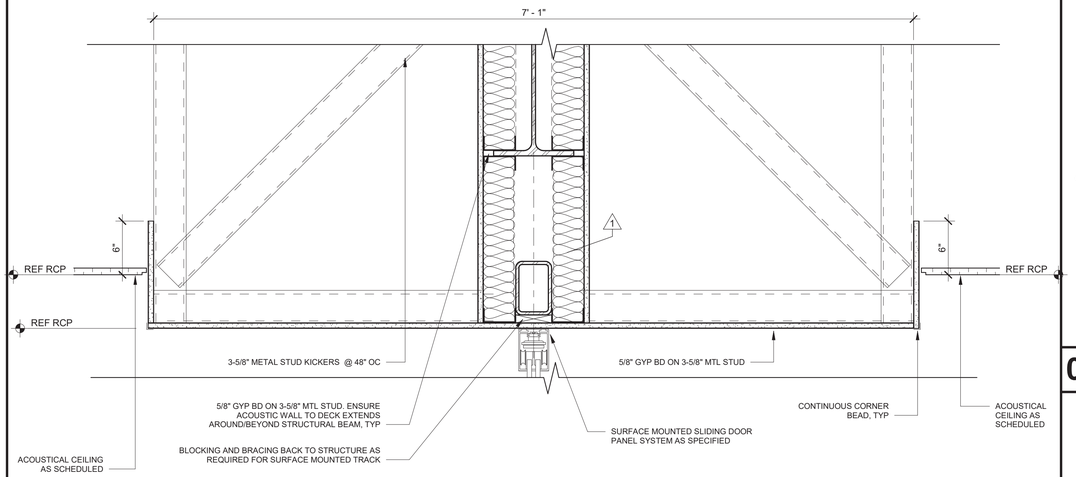
Drawing No.

**A650**
**ENLARGED RCP & DETAILS**

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LEE'S SUMMIT, MISSOURI

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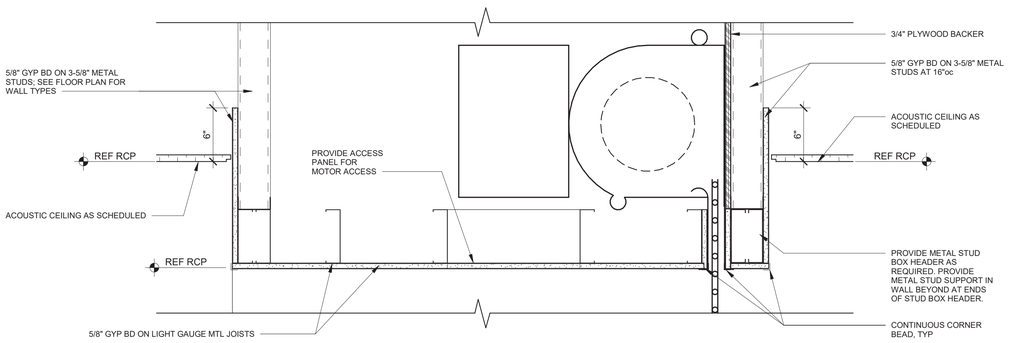

## 04 RCP DETAIL @ SLIDING GLASS DOOR SYSTEM

1 1/2" = 1'-0"



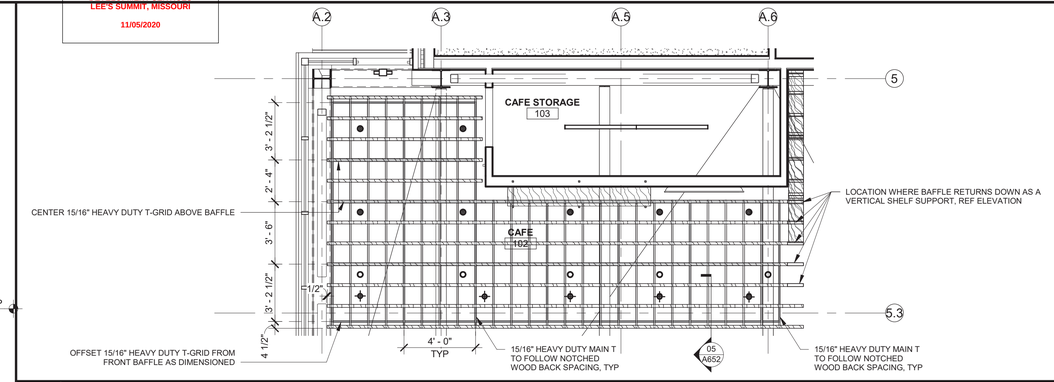

## 03 RCP DETAIL @ OPERABLE PARTITION

1 1/2" = 1'-0"



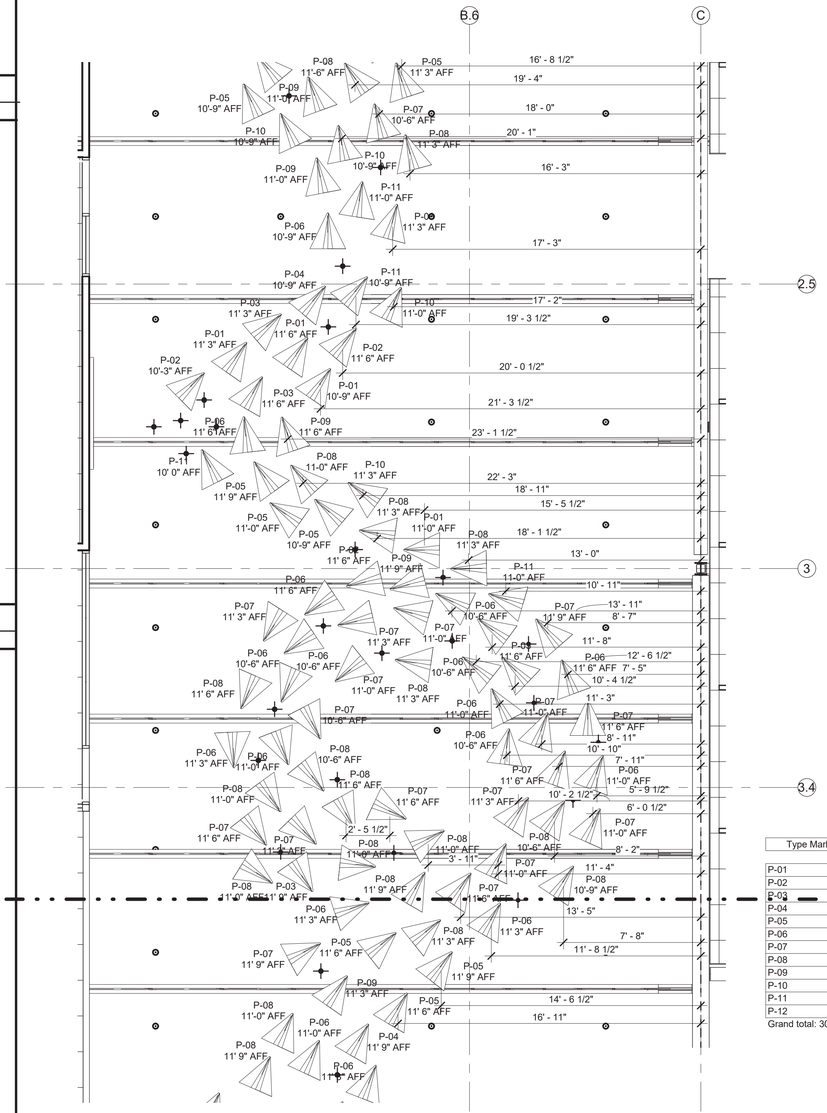

## 02 RCP DETAIL @ OVERHEAD SECURITY GRILLE

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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Michael John Heule, Architect MO A-5451

| 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.

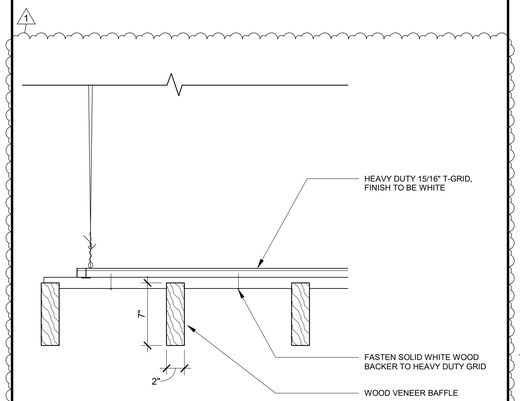
**A651**

ENLARGED RCP & DETAILS

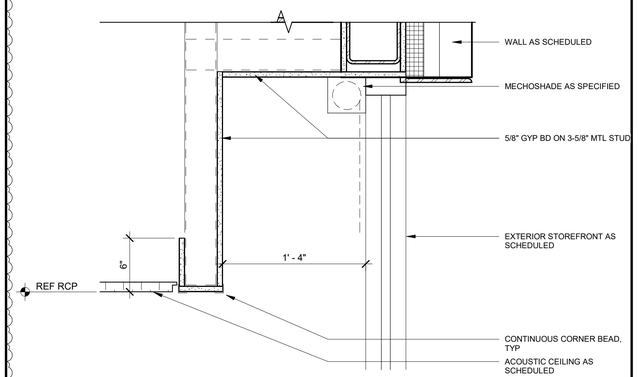

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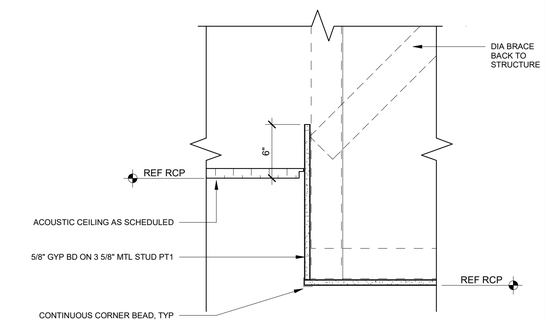
11/05/2020



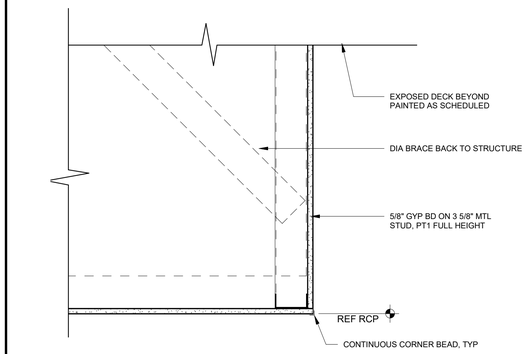

**05 RCP DETAIL @ BAFFLE CEILING**
1 1/2" = 1'-0"



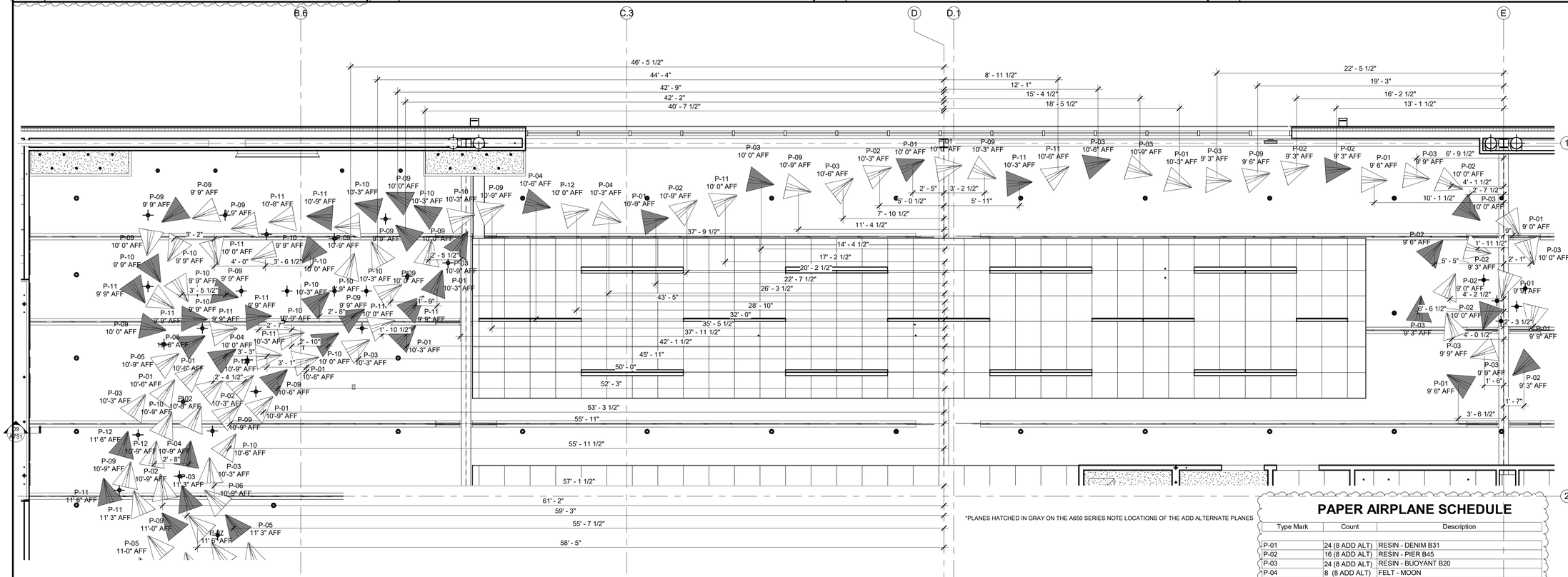

**04 RCP DETAIL @ WINDOW LIGHT**
1 1/2" = 1'-0"




**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"




**01 ENLARGED RCP @ COWORKING LOUNGE PLANES3**
1/4" = 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) | | |


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Kansas City, MO 64108 816.300.0300
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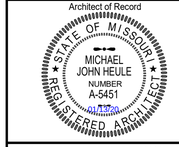
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# Colbern Road Branch

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

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 |

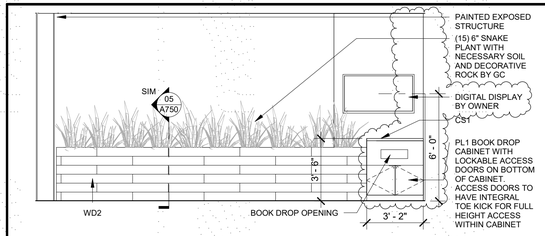
Drawing No.

**A652**
**ENLARGED RCP & DETAILS**

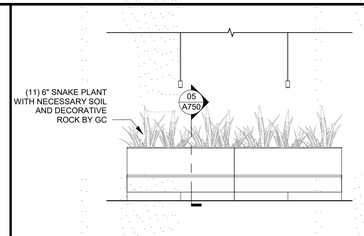

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

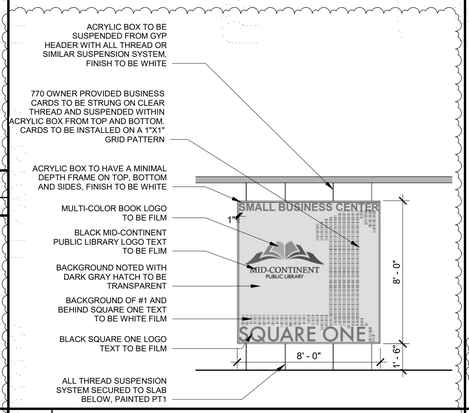
11/05/2020



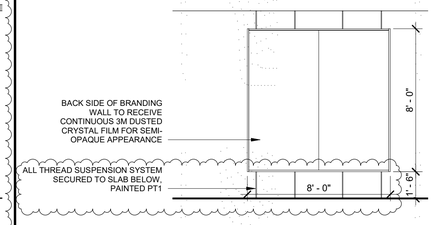

**19 LARGE PLANTER PARTITION - E**
1/4" = 1'-0"




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




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

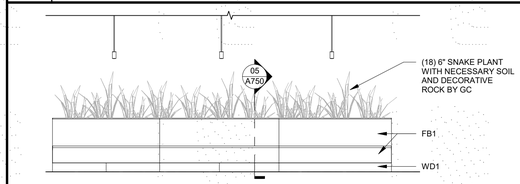



**07 SQUARE ONE BRANDING WALL - W**
1/4" = 1'-0"

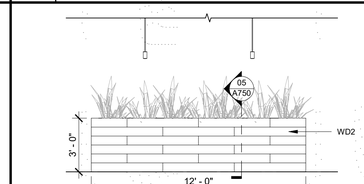
## GENERAL NOTES

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 SOLID 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 US26D 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.

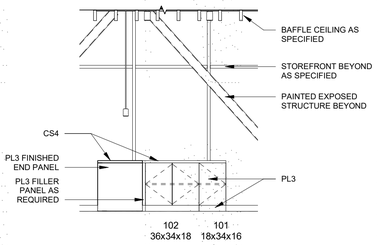
142 ← AWS MODEL DESIGNATION
36X34X24 ← SIZE (WXHXD)



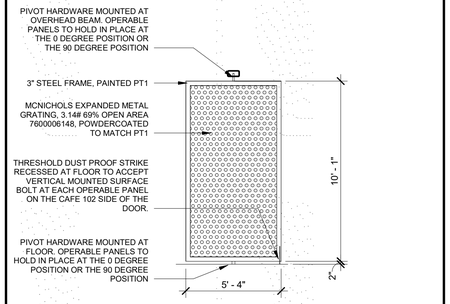

**18 LARGE PLANTER PARTITION - W**
1/4" = 1'-0"



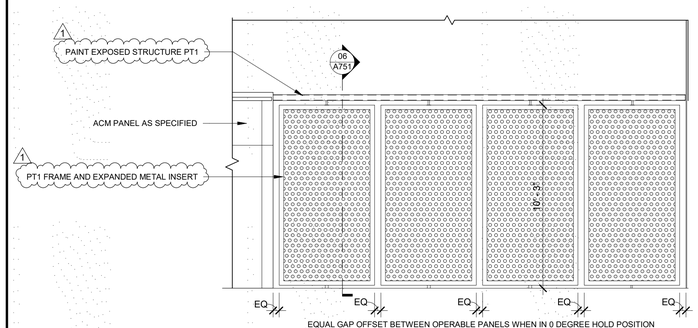

**13 TYPICAL PLANTER PARTITION - S**
1/4" = 1'-0"



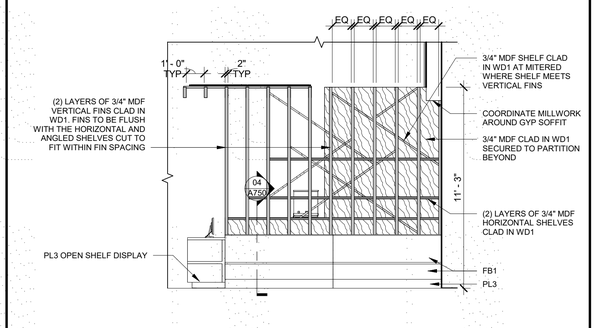

**15 CAFE 102 - SERVERY CASEWORK W**
1/4" = 1'-0"




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




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



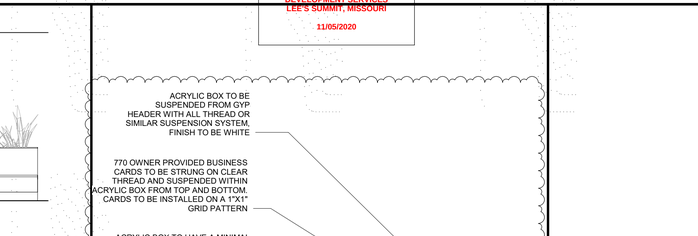

**01 CAFE 102 - DISPLAY + BOOTH**
1/4" = 1'-0"



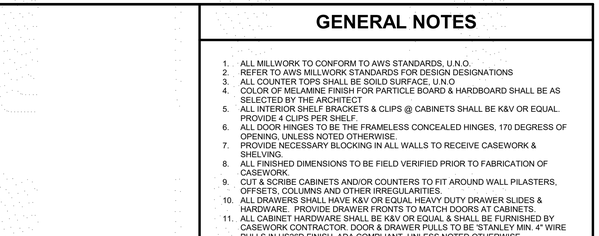

**16 CAFE 102 - SERVERY CASEWORK E**
1/4" = 1'-0"



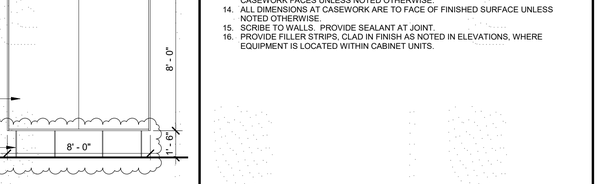

**11 CAFE 102 - SERVERY CASEWORK N**
1/4" = 1'-0"




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




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




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


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

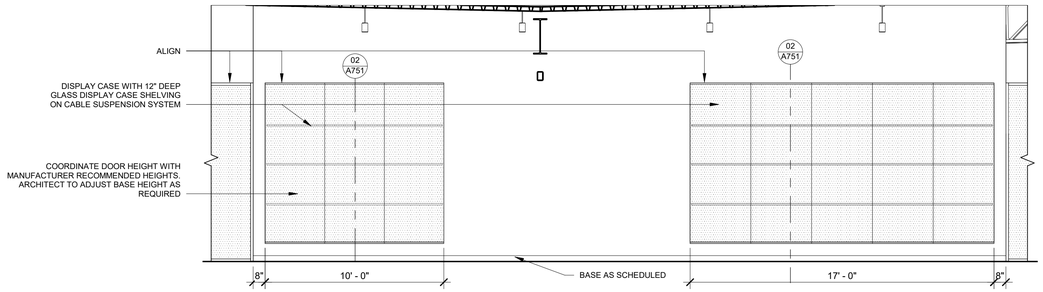
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|---|---|---|
| 1 | ADDENDUM 01 | 01/13/20 |

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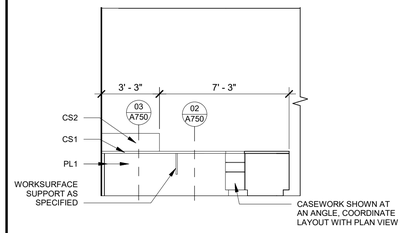
Drawing No.
**A700**
**INTERIOR ELEVATIONS**

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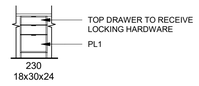



## 20 DISPLAY WALL
1/4" = 1'-0"

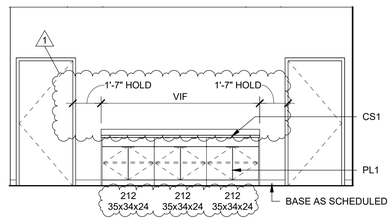



## 12 CHILDREN'S CIRC DESK INTERIOR - S
1/4" = 1'-0"

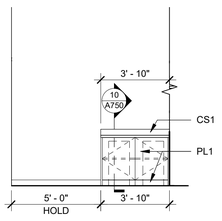
NOT USED



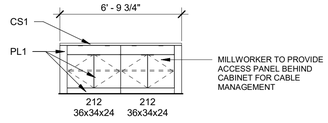

## 04 CIRCULATION DESK
1/4" = 1'-0"



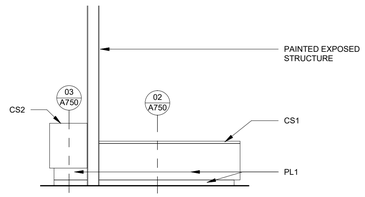

## 19 KITCHENETTE 133 - W
1/4" = 1'-0"



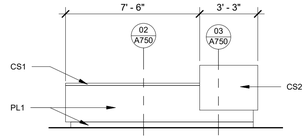

## 18 KITCHENETTE 133 - N
1/4" = 1'-0"



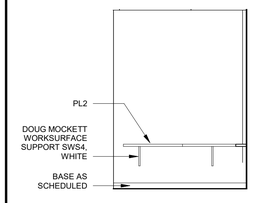

## 15 CIRC DESK PRINTER STATION - NW
1/4" = 1'-0"



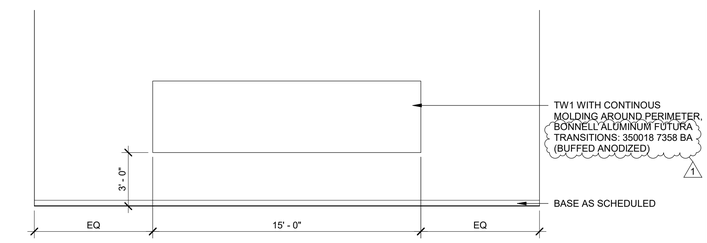

## 11 CHILDREN'S CIRC DESK FRONT - E
1/4" = 1'-0"



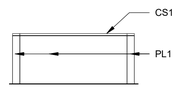

## 07 CIRCULATION DESK FRONT - W
1/4" = 1'-0"



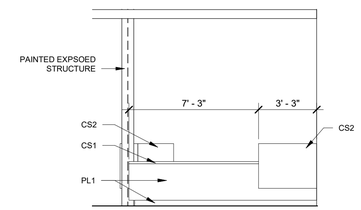

## 03 DRIVE UP WINDOW - S
1/4" = 1'-0"



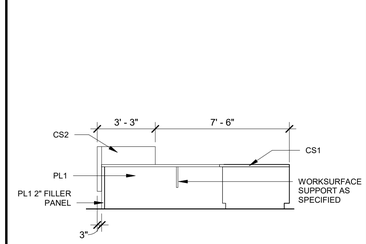

## 17 STORYTIME 122 - TACWALL
1/4" = 1'-0"



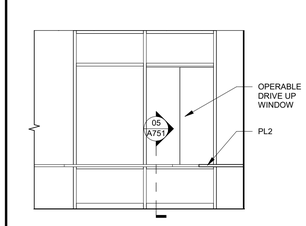

## 14 CIRC DESK PRINTER STATION - SE
1/4" = 1'-0"



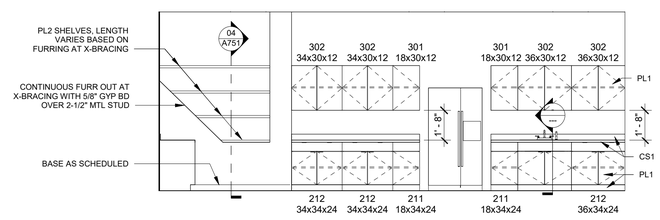

## 10 CHILDREN'S CIRC DESK FRONT - N
1/4" = 1'-0"



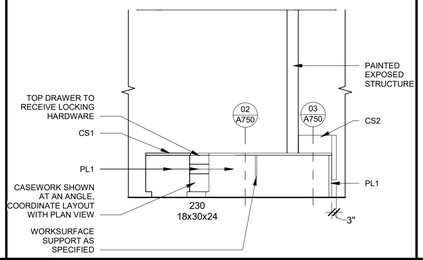

## 06 CIRCULATION DESK INTERIOR - E
1/4" = 1'-0"



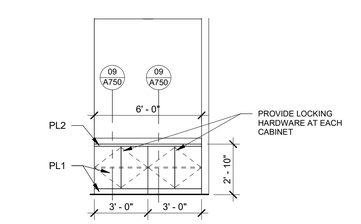

## 02 DRIVE UP WINDOW - W
1/4" = 1'-0"



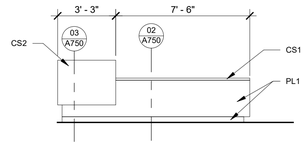

## 16 KITCHENETTE 133 - E
1/4" = 1'-0"



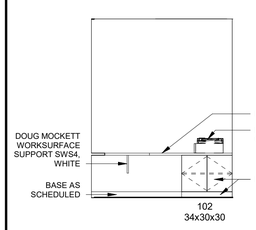

## 13 CHILDREN'S CIRC DESK INTERIOR - W
1/4" = 1'-0"




## 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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|---|---|---|
| 1 | ADDENDUM 01 | 01/13/20 |

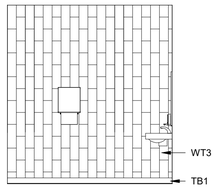
| Project No. | Date | Drawn |
|---|---|---|
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Drawing No.
**A701**
INTERIOR ELEVATIONS

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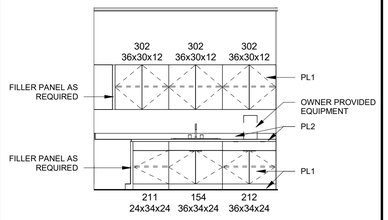
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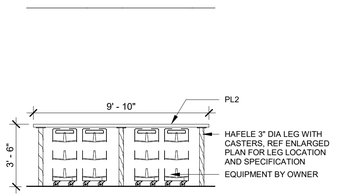



## 09 STAFF RR - N
1/4" = 1'-0"

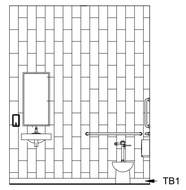
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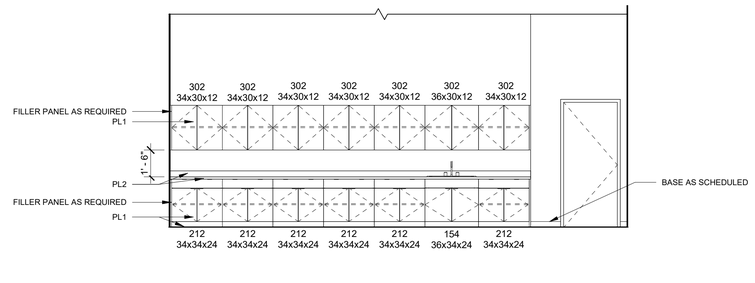

## 04 BREAK ROOM 119 - S
1/4" = 1'-0"



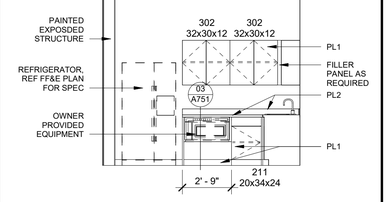

## 15 WORKROOM ISLAND - TYP
1/4" = 1'-0"



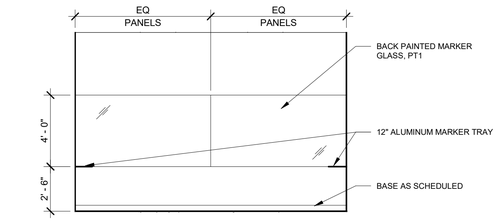

## 12 STAFF RR - E
1/4" = 1'-0"



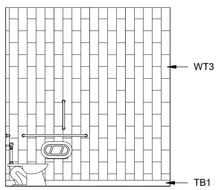

## 07 STORYTIME STORAGE 122 - CASEWORK
1/4" = 1'-0"



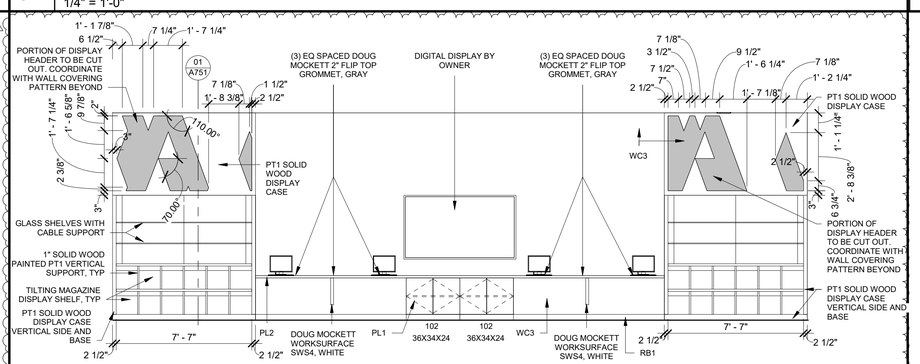

## 03 BREAK ROOM 119 - E
1/4" = 1'-0"



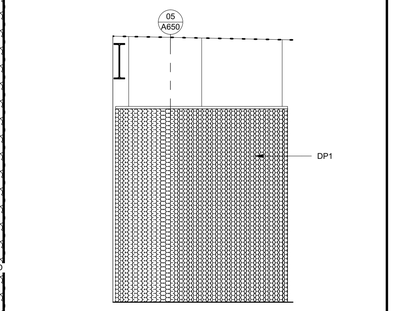

## 14 MEETING 130 - N
1/4" = 1'-0"



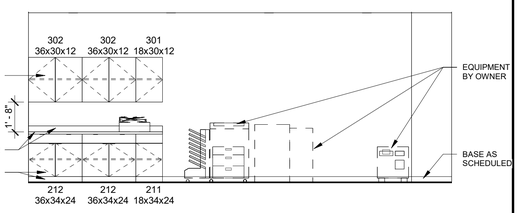

## 11 STAFF RR - S
1/4" = 1'-0"



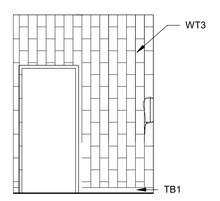

## 06 CHILDREN'S COLLECTION 119 - DISPLAY
1/4" = 1'-0"



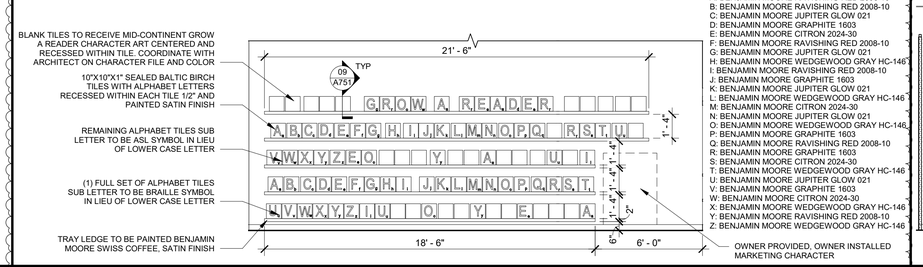

## 02 SUSPENDED COIL DRAPER - TYP
1/4" = 1'-0"



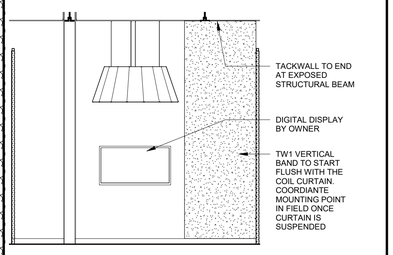

## 13 COWORKING SPACE 108 - S
1/4" = 1'-0"




## 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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JACKSON COUNTY

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

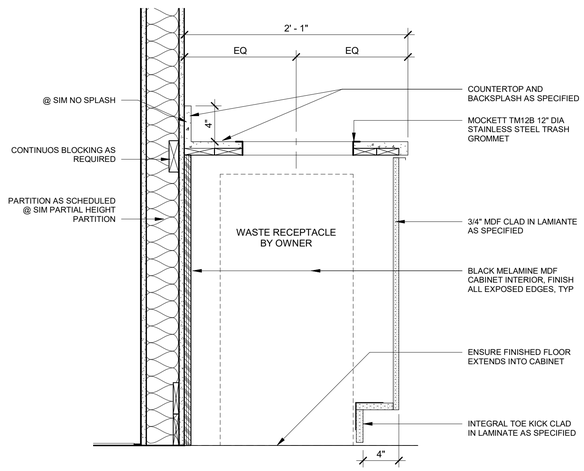
| Revision No. | Description | Date |
|---|---|---|
| 1 | ADDENDUM 01 | 01/13/20 |

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|---|---|---|
| WP10 | 12-23-2019 | TLK |

Drawing No.
**A702**
INTERIOR ELEVATIONS

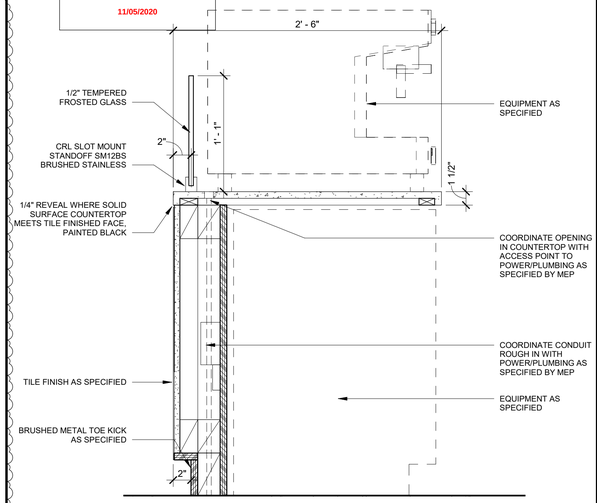
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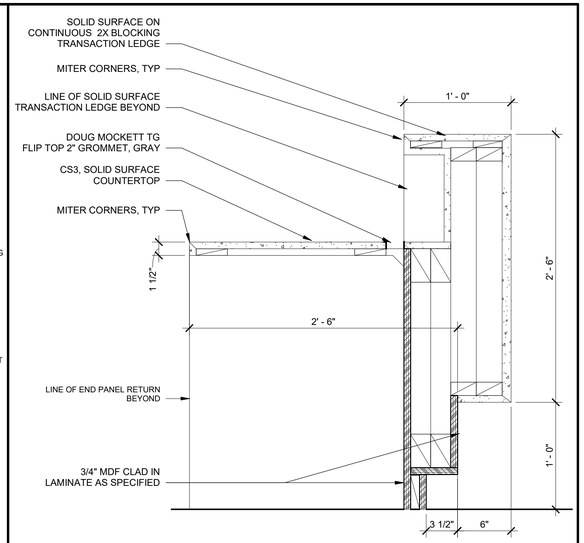



## 10 SECTION @ TRASH/RECYCLE CABINET
1 1/2" = 1'-0"

NOT USED




## 06 SECTION @ CAFE SERVERY
1 1/2" = 1'-0"




## 03 SECTION @ CIRC DESK
1 1/2" = 1'-0"



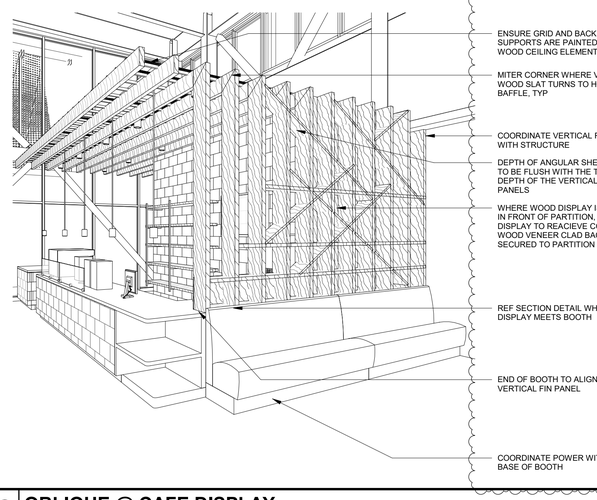

## 09 SECTION @ AV CABINET
1 1/2" = 1'-0"



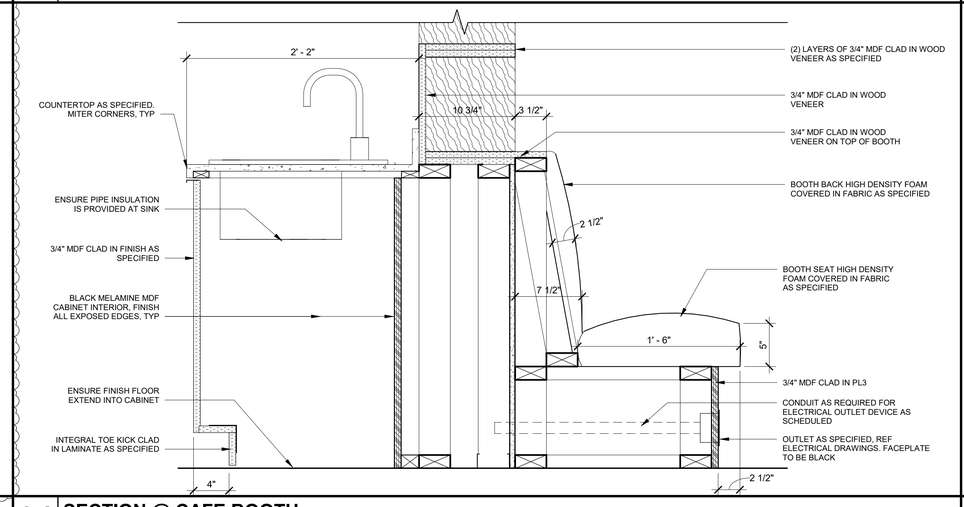

## 05 SECTION @ PLANTER BANQUETTE
1 1/2" = 1'-0"



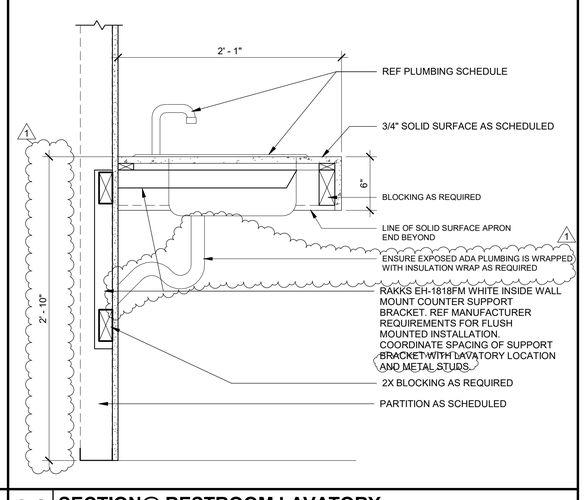

## 02 SECTION @ CIRC DESK COUNTER
1 1/2" = 1'-0"




## 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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STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT
01/13/20
Michael John Heule, Architect MO A-5451

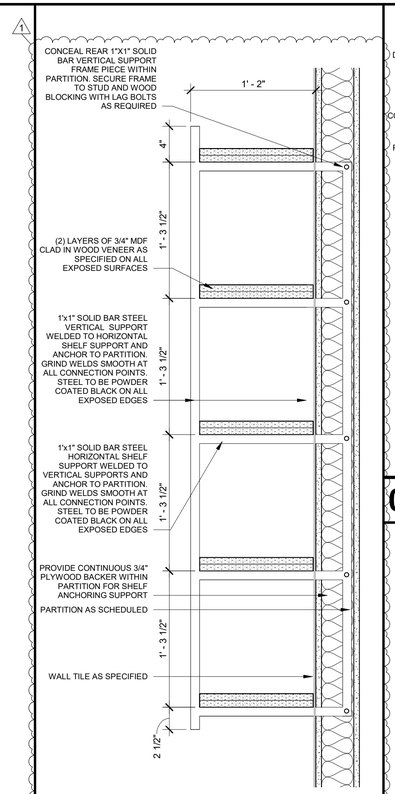
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|---|---|---|
| WP10 | 12-23-2019 | TLK |

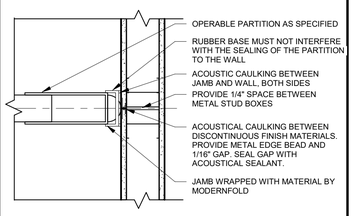
Drawing No.
**A750**
INTERIOR DETAILS


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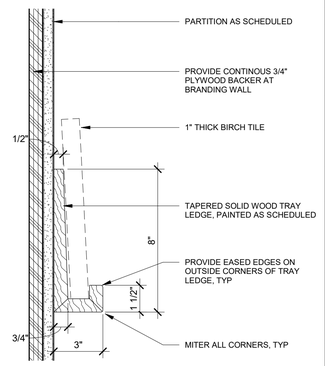
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11/05/2020



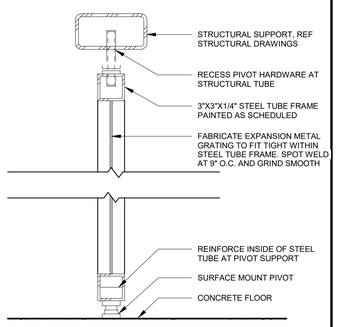

## 08 SECTION @ DISPLAY SHELF
1 1/2" = 1'-0"



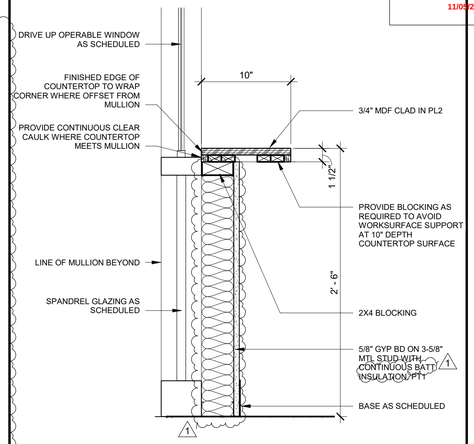

## 07 DETAIL @ OPER PANEL JAMB
1 1/2" = 1'-0"



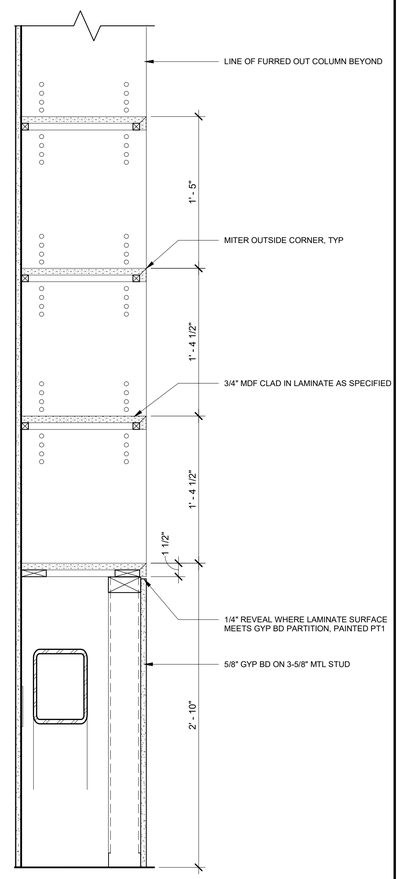

## 09 SECTION @ TRAY LEDGE
3" = 1'-0"



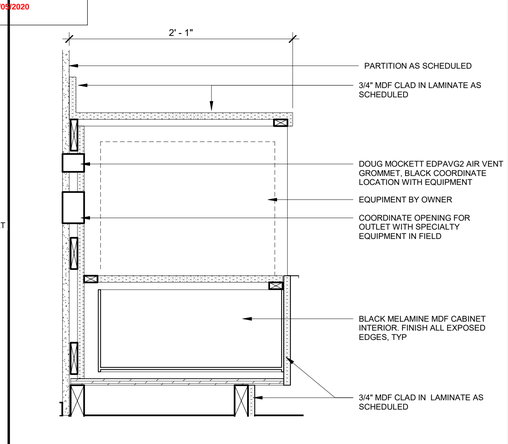

## 06 DETAIL @ METAL PIVOT DOOR
1 1/2" = 1'-0"



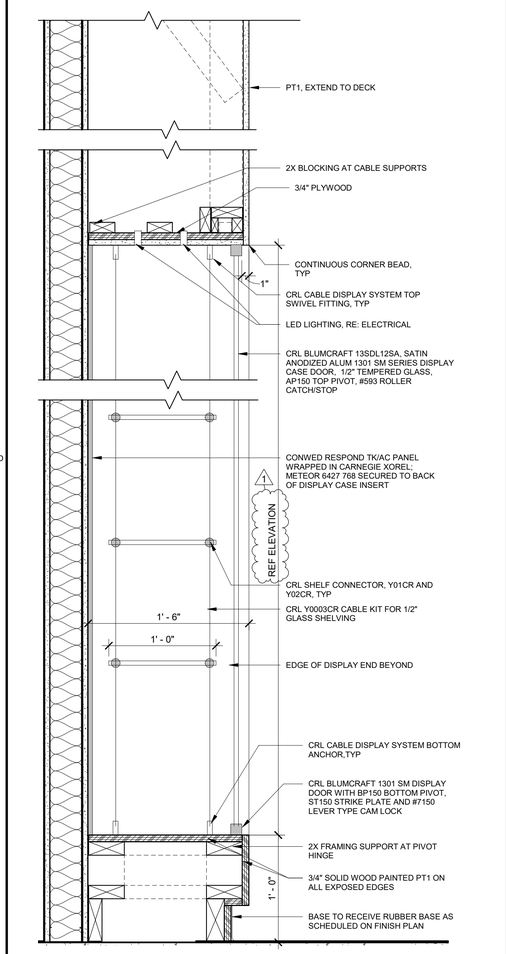

## 05 SECTION @ DRIVE UP WINDOW
1 1/2" = 1'-0"



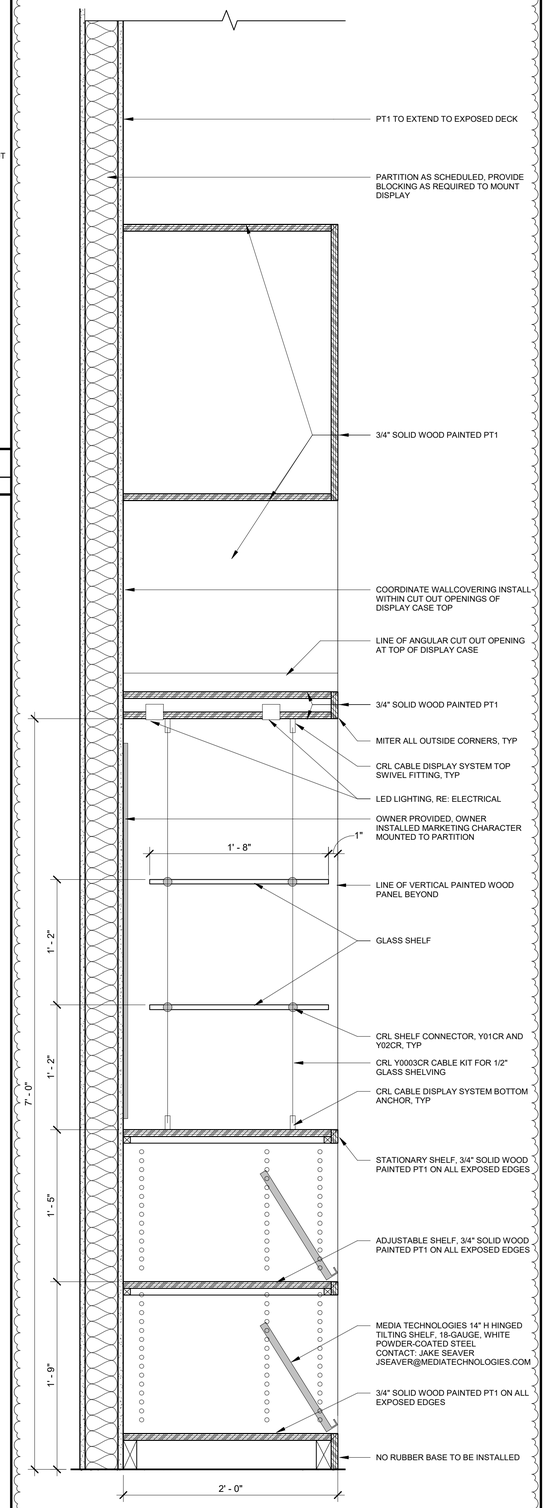

## 04 SECTION @ KITCHENETTE OPEN SHELVING
1 1/2" = 1'-0"




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




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




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

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**A751**
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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 | ROOM NAME |
| CPT2 | ROOM NUMBER |
| B2 | FLOOR FINISH |
| P12 | 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

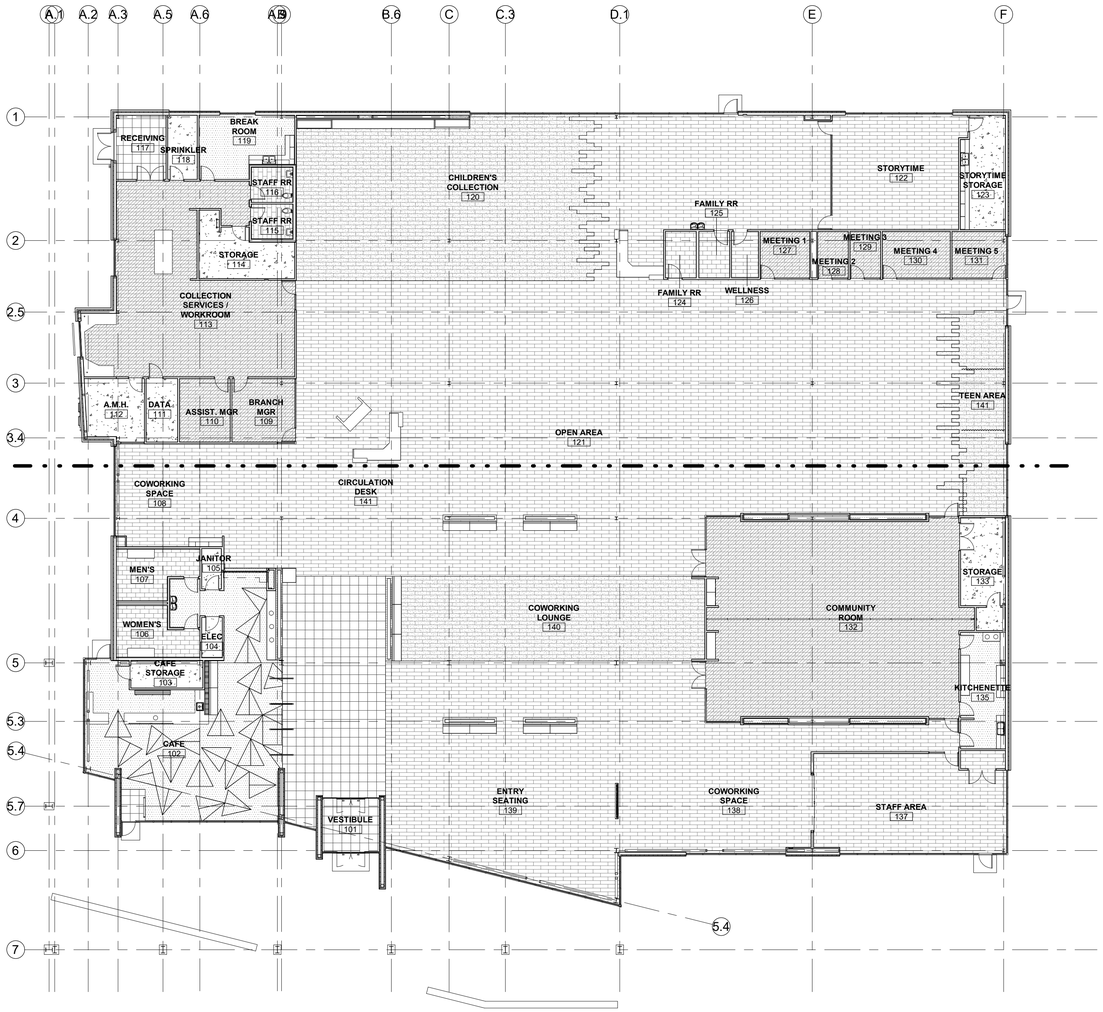
## KEYNOTES

## 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**

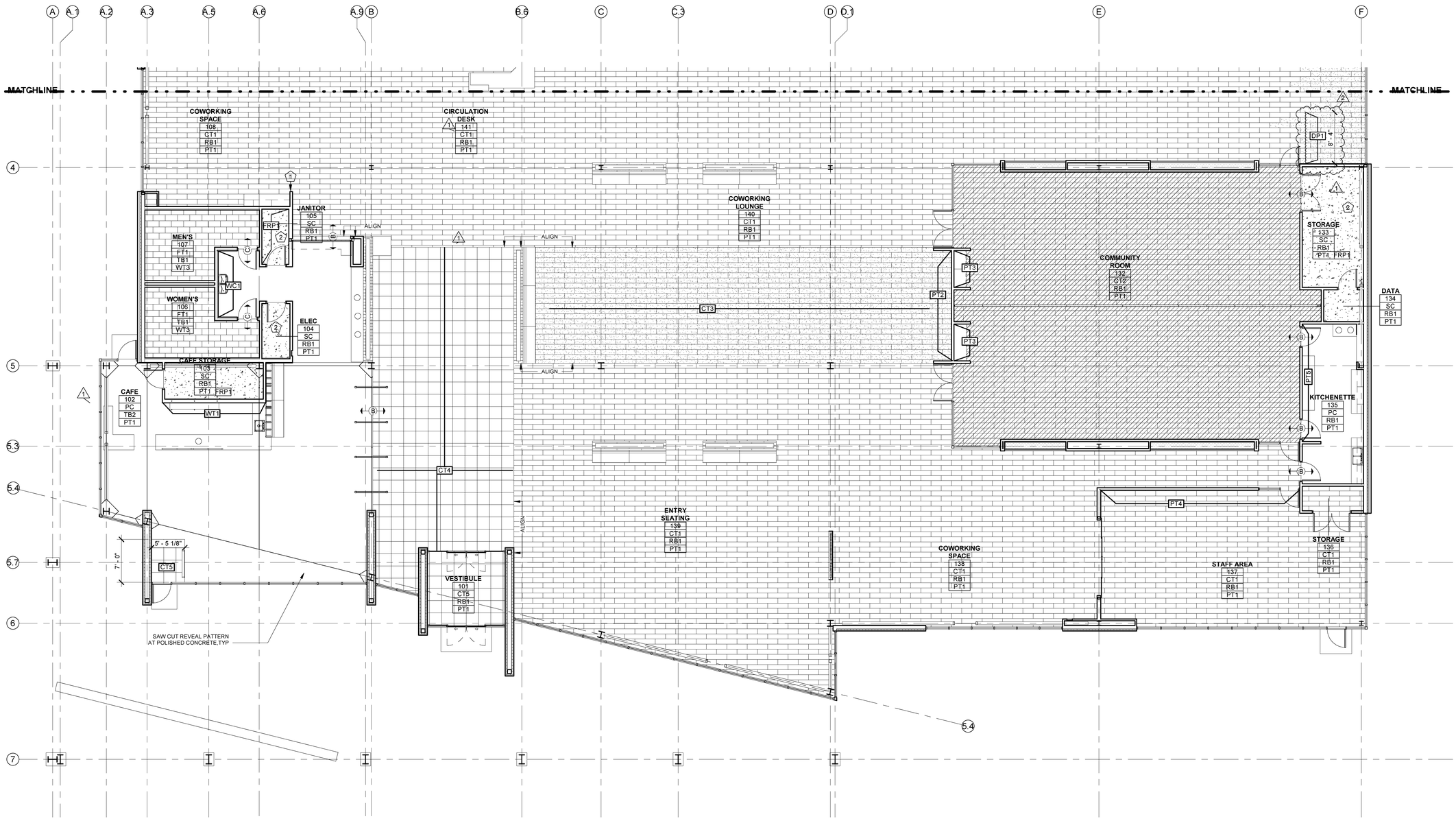
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

## 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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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**

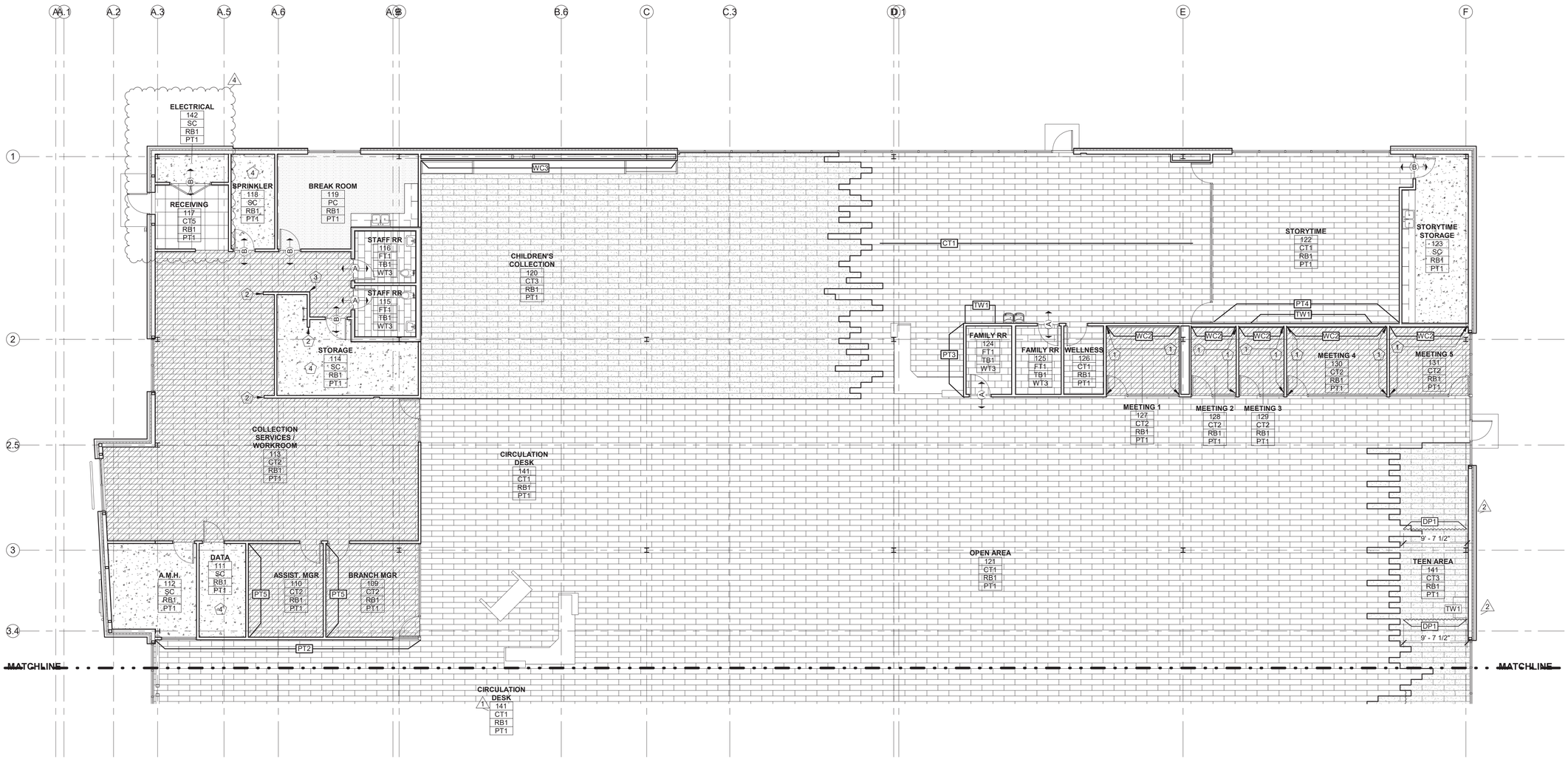

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## KEY NOTES

| | |
|---|---|
| 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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STATE OF MISSOURI
MICHAEL JOHN HEULE
NUMBER 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**

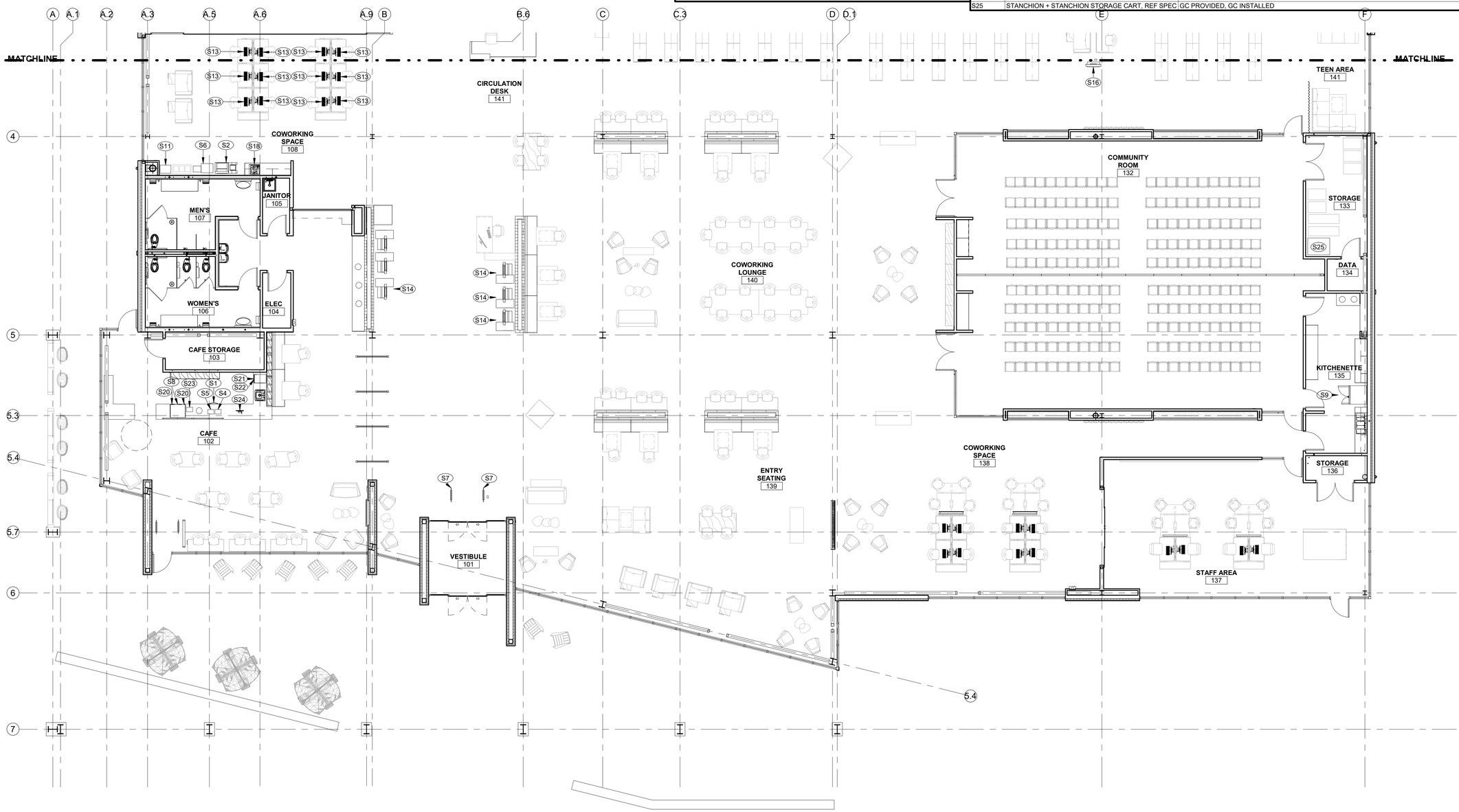
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1 KEYNOTES

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| Type Mark | Description | Comments |
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| 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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MICHAEL JOHN HEULE
NUMBER A-5451
REGISTERED ARCHITECT
01/13/20

1 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

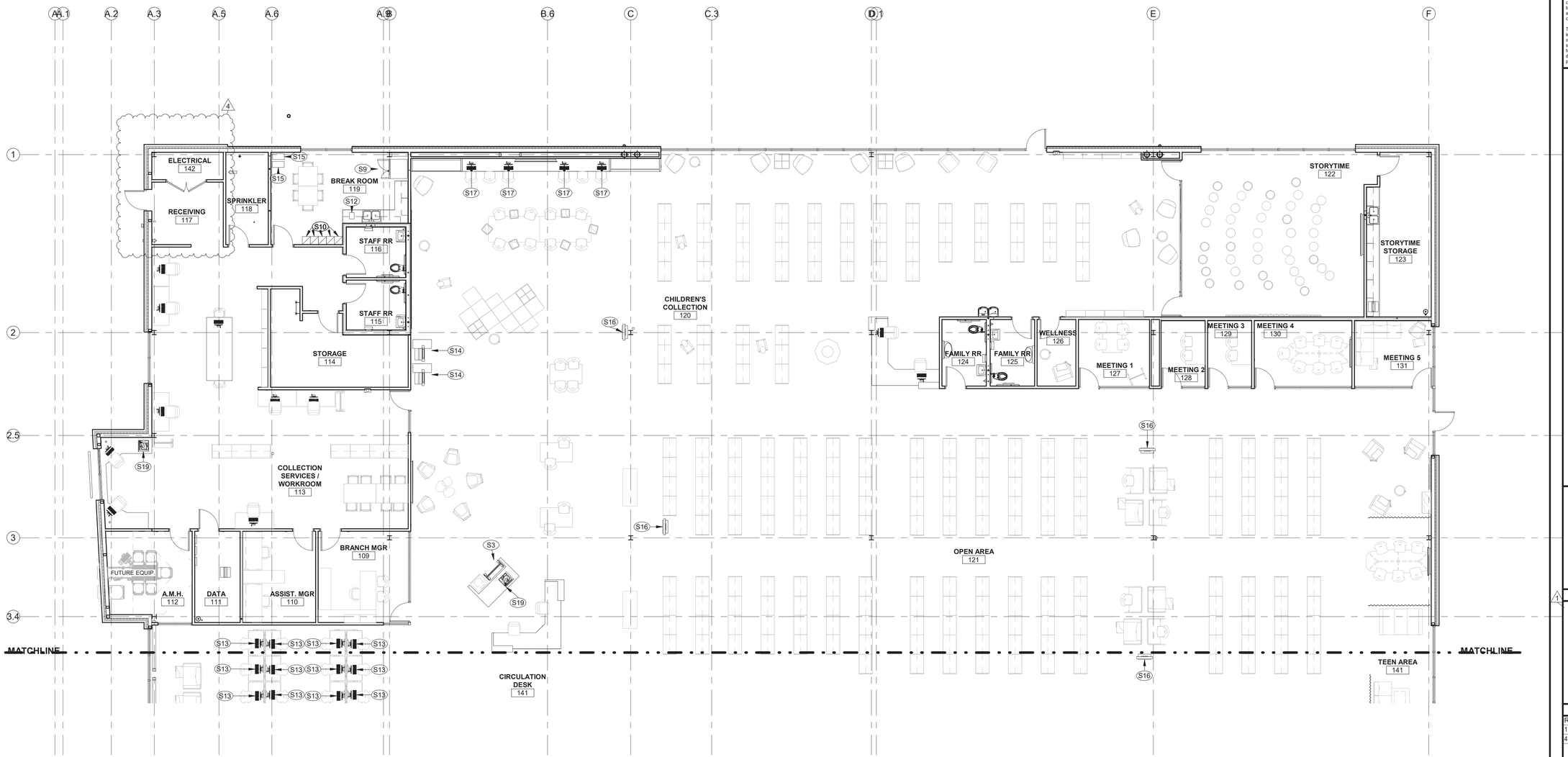
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## 1 FF&E PLAN - AREA B

1/8" = 1'-0"


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1000 NE COLBERN ROAD
LEE'S SUMMIT, MISSOURI 64086
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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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

## 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

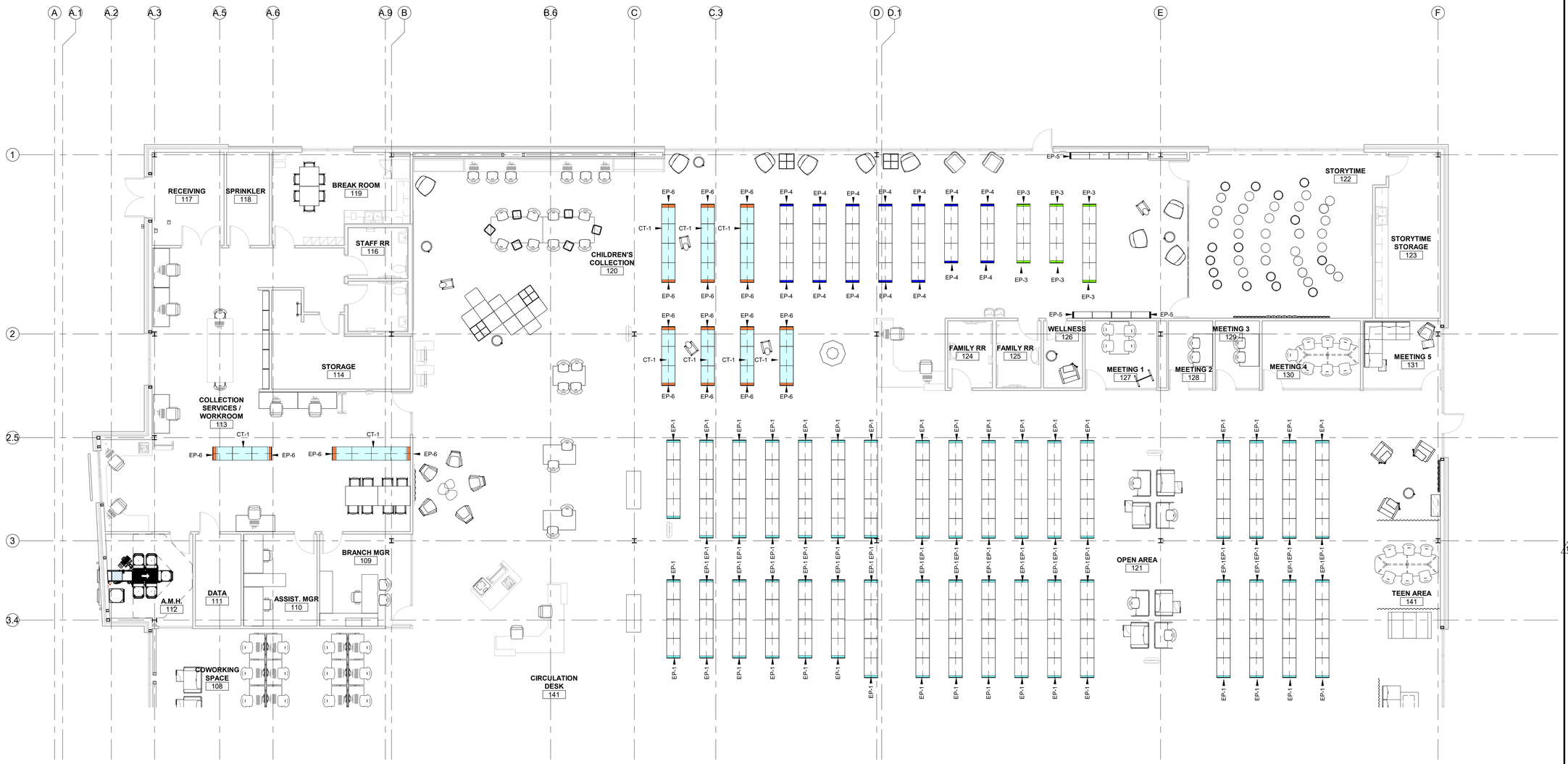
EP-6 — NEW 42" H X 25" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(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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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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Mid-Continent Public Library
NEW BRANCH LIBRARY

# Colbern Road Branch

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

Architect of Record

STATE OF MISSOURI
MICHAEL JOHN HEULE
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Drawing No.

**F003**

**SHELVING END PANELS + CANOPIES**


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LEE'S SUMMIT, MISSOURI

11/05/2020

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<br>4,000 PSI (AE) - REINFORCED EXTERIOR FLATWORK<br>4,000 PSI (AE) - EXTERIOR FOOTINGS AND FOUNDATION WALLS<br>8,000 PSI - GROUT FOR BASE PLATE/BEARING PLATES<br>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<br>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,<br>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<br>VERTICALLY IN 10 FT. LENGTHS<br>9 GAGE WIRE PER ASTM A1064<br>INTERIOR WALLS: MILL GALVANIZE PER<br>EXTERIOR WALLS: HOT DIP GALVANIZED<br>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<br>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.

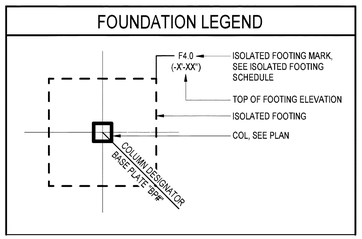
## STRUCTURAL CONCRETE

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 CAMB

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/07/2020

## 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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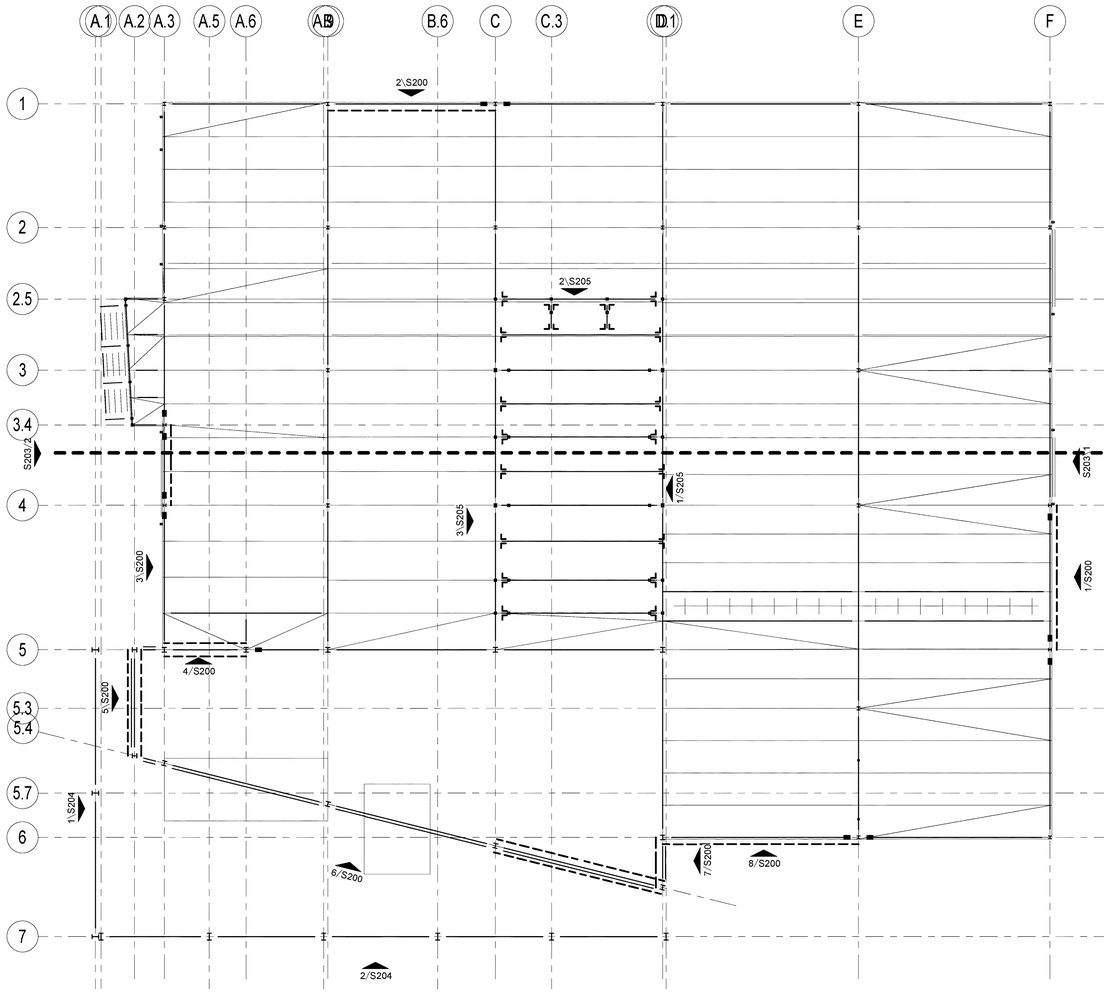
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Drawing No.
**S001**
**SPECIAL INSPECTIONS, ABBREVIATIONS, AND GENERAL NOTES**


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## 1 OVERALL PLAN

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

NORTH

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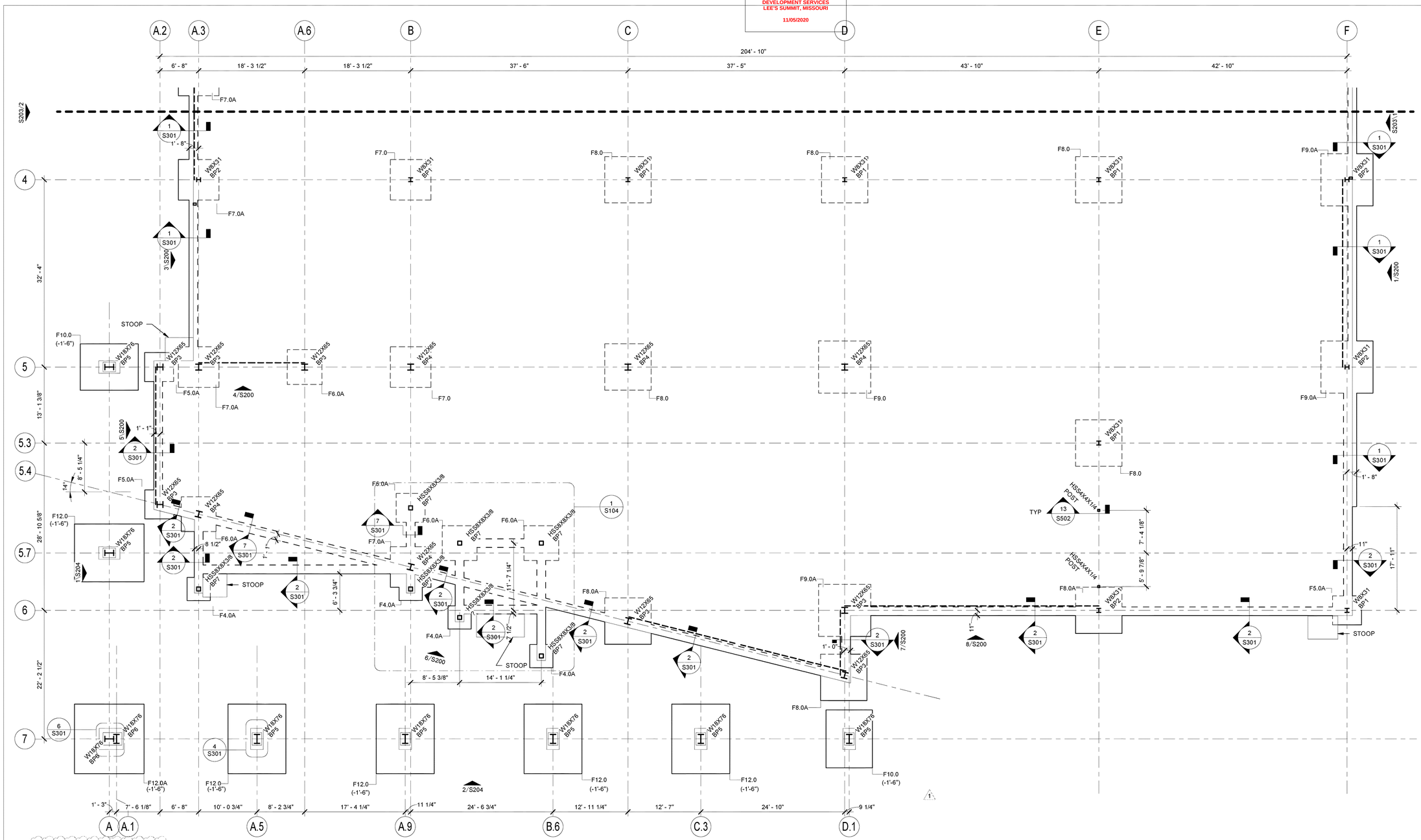
**S100**

**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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| 1 | ADDENDUM 1 | 1/13/2020 |
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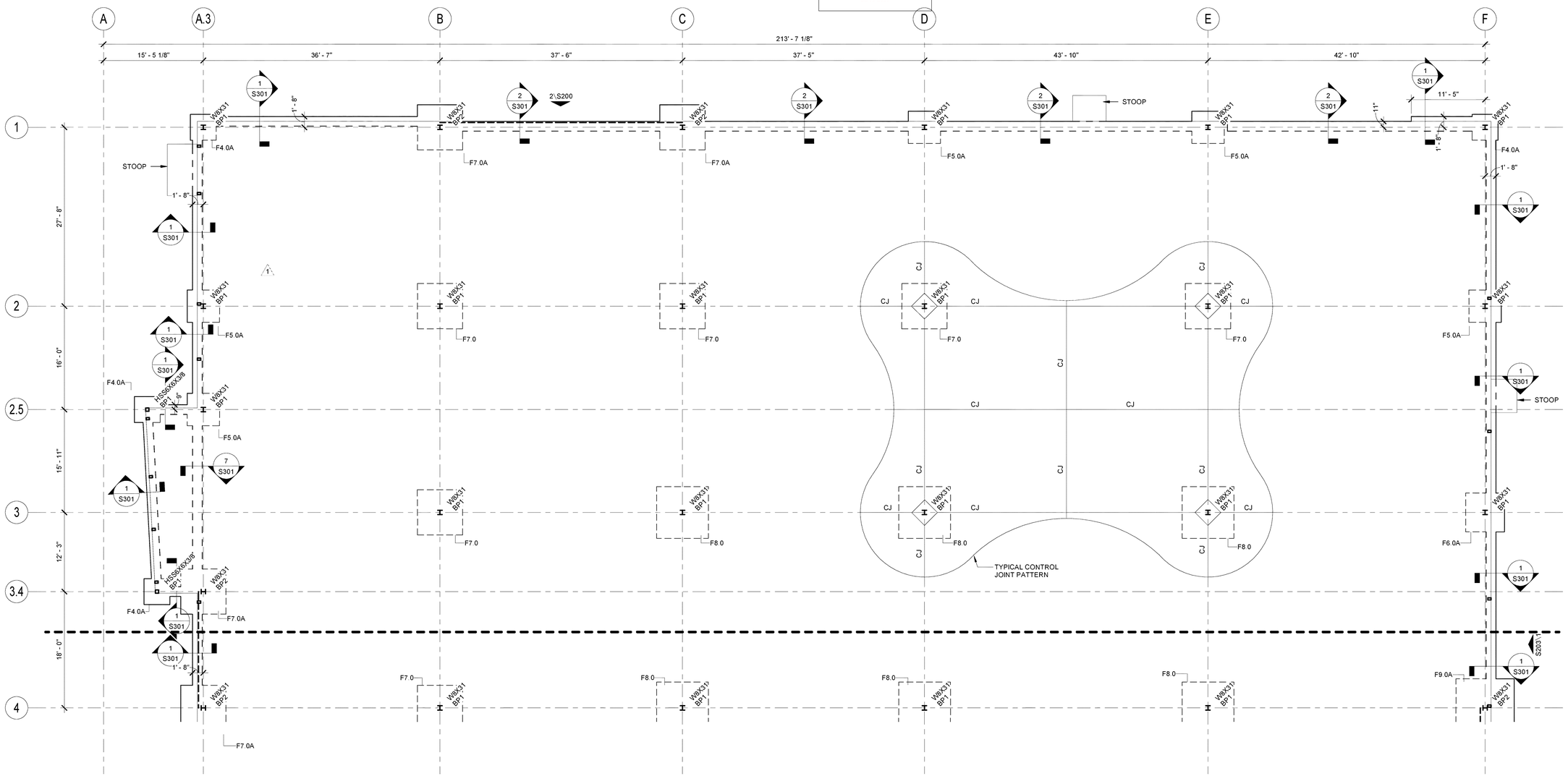
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**S101A**
**FOUNDATION PLAN - AREA A**

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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 |
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| F7.0A | 7' - 0" | 7' - 0" | 36" | (8) #6 BARS EW BOTTOM |
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| 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 |
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| F12.0A | 12' - 0" | 12' - 0" | 36" | #6 @ 6" EW TOP AND BOTTOM |

**PLAN NOTES:**

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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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| 2 | ADDENDUM 2 | 1/20/2020 |

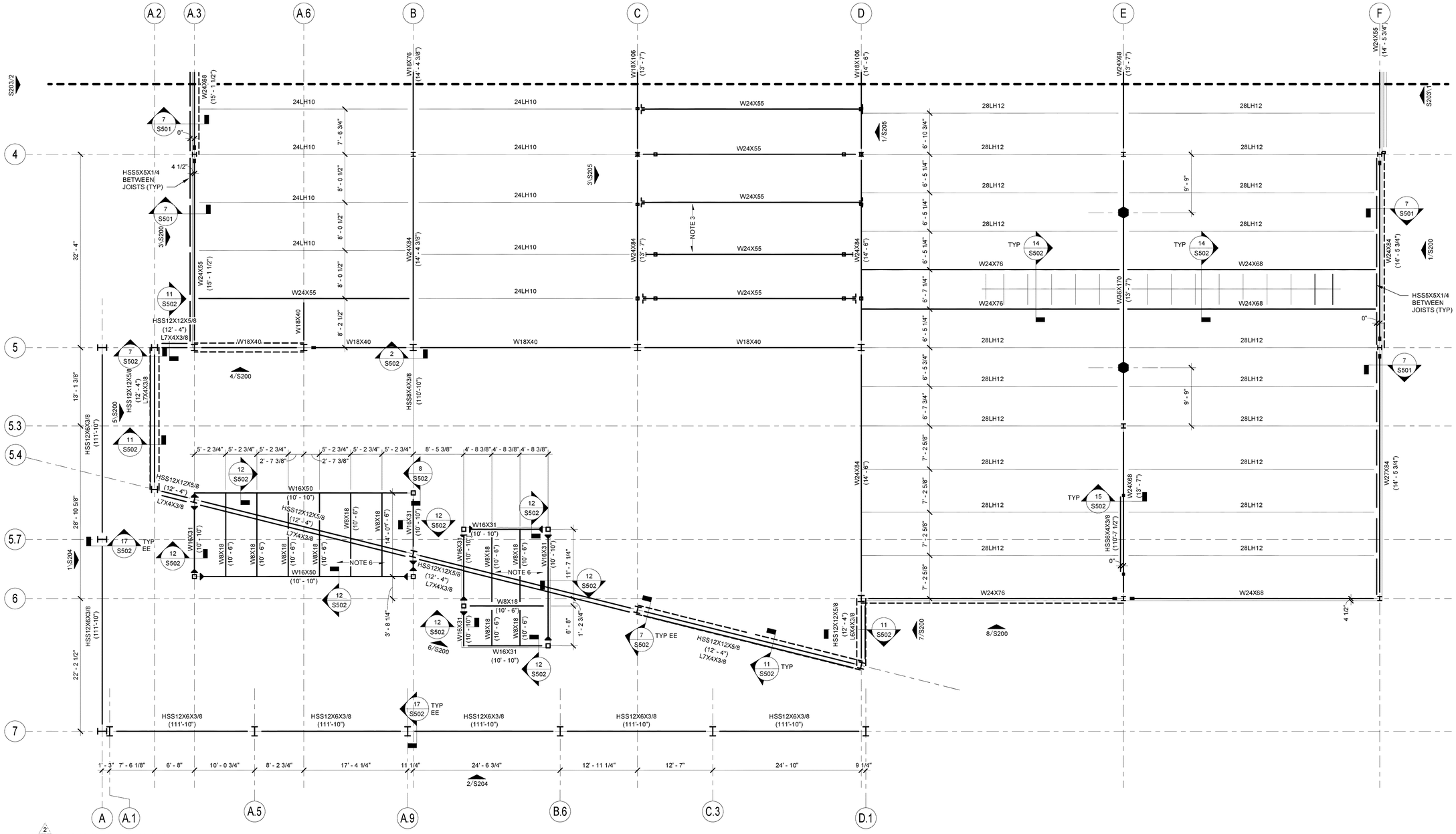
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Drawing No.
**S101B**
**FOUNDATION PLAN - AREA B**

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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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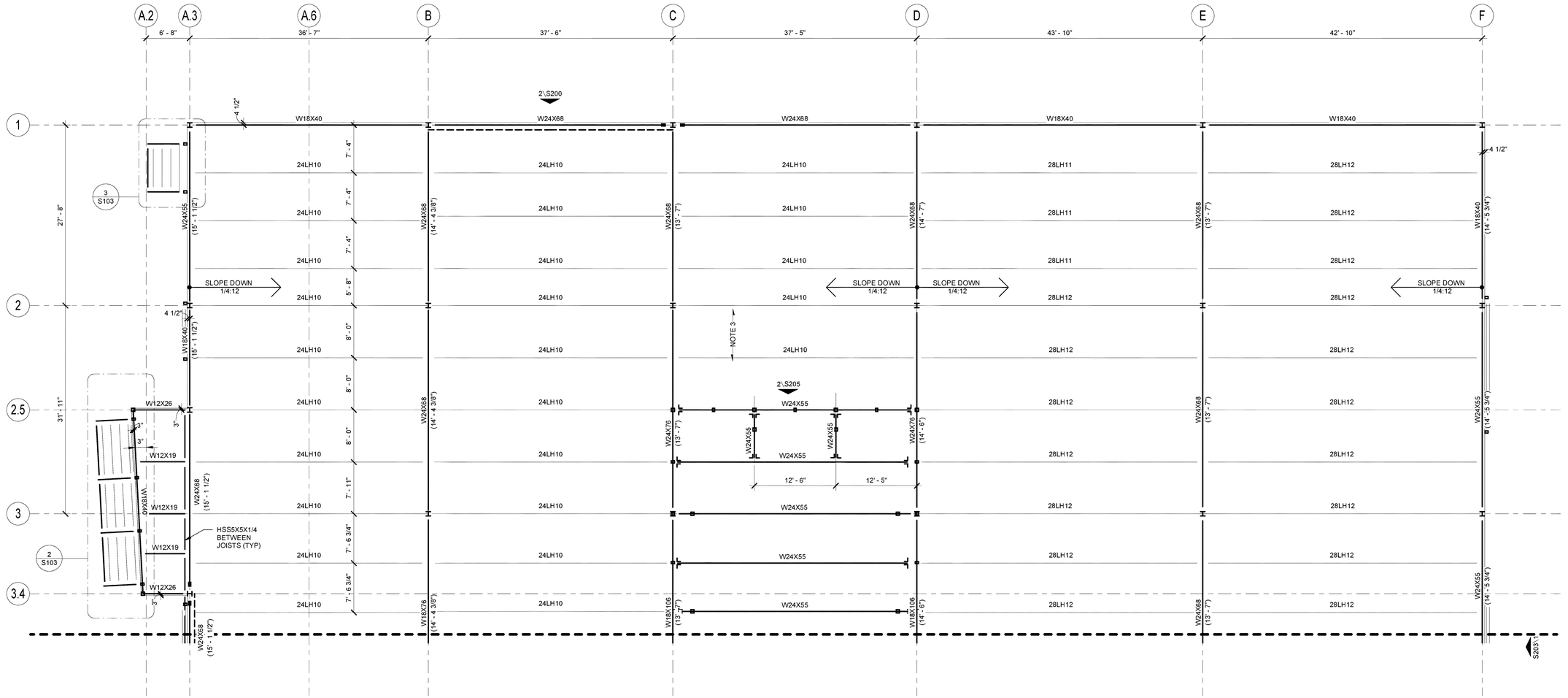
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ROOF FRAMING PLAN - AREA A

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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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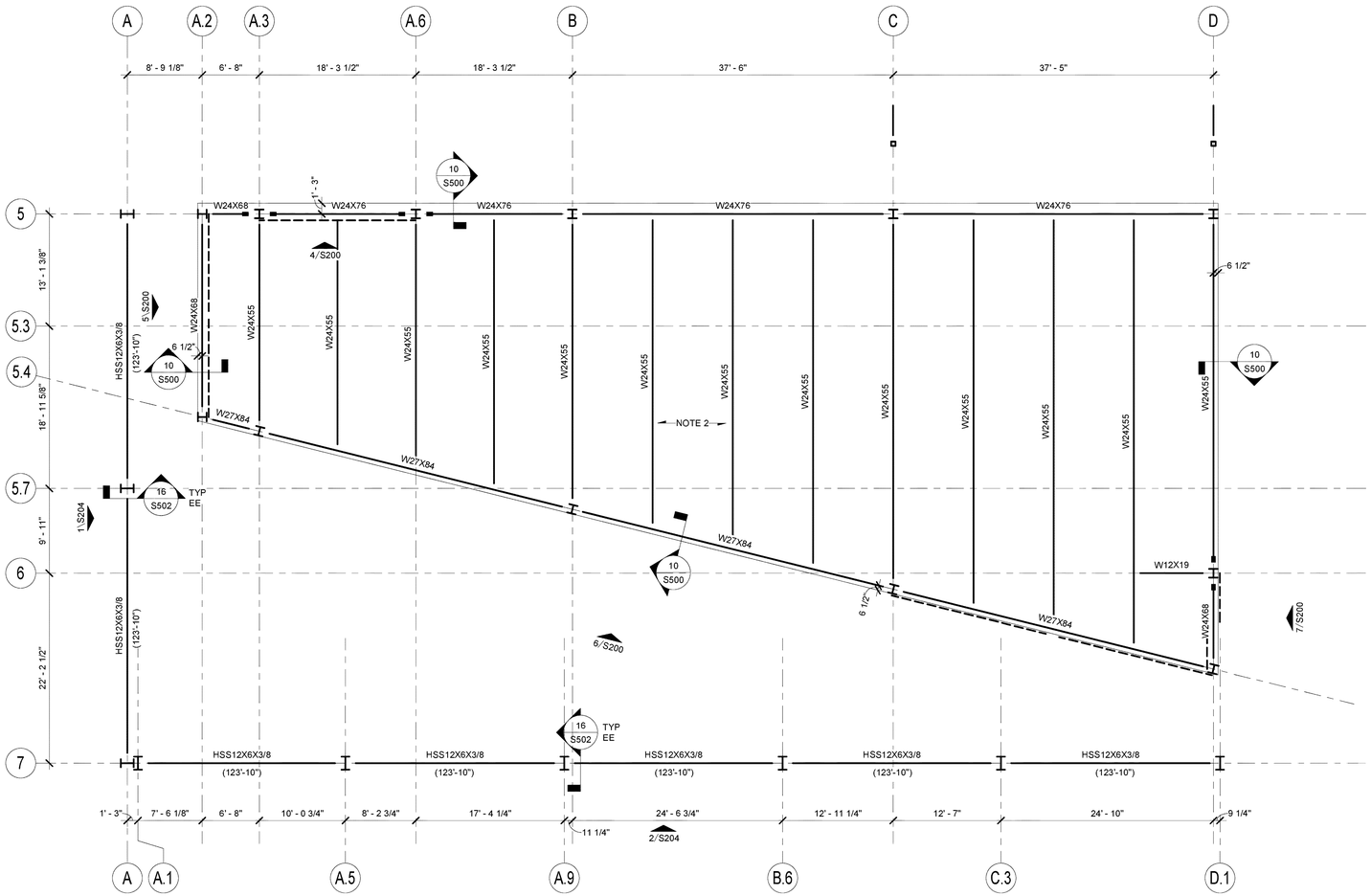
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Drawing No.
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ROOF FRAMING PLAN - AREA B

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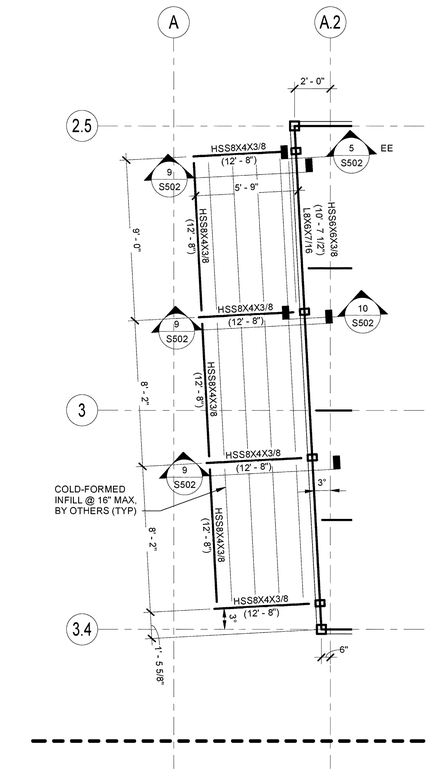
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## 1 UPPER ROOF

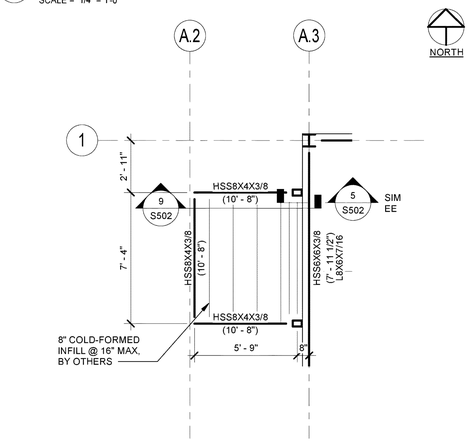
SCALE = 1/8" = 1'-0"

NORTH




## 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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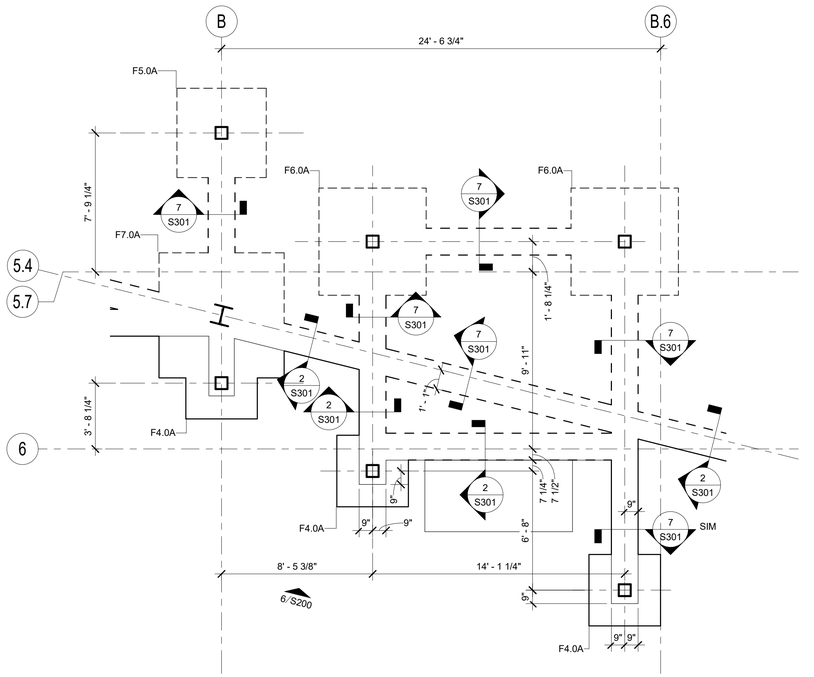
**S103**

**UPPER ROOF FRAMING PLAN AND PARTIAL PLANS**

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## 1 ENLARGED FOUNDATION PLAN

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


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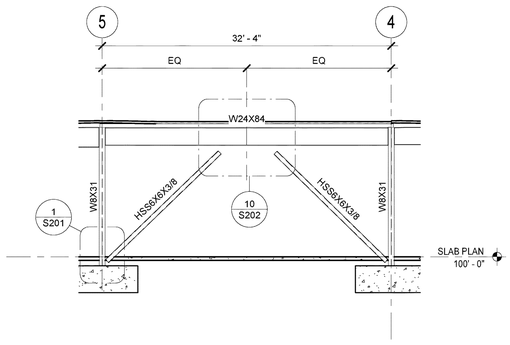
| Project No. | Date | Drawn |
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| WP10 | 12/23/2019 | Author |

Drawing No.
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**S104**
ENLARGED FOUNDATION PLANS

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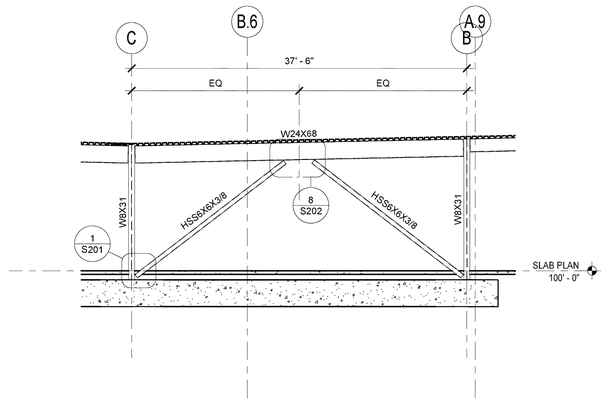
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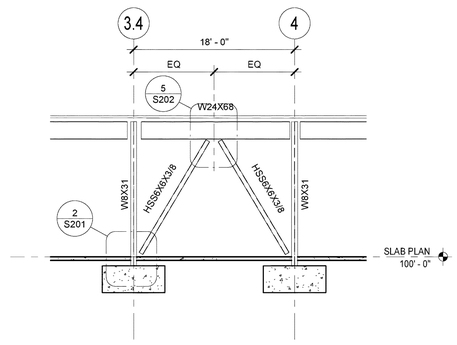

## 1 BRACED FRAME ELEVATION ALONG GRID F

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



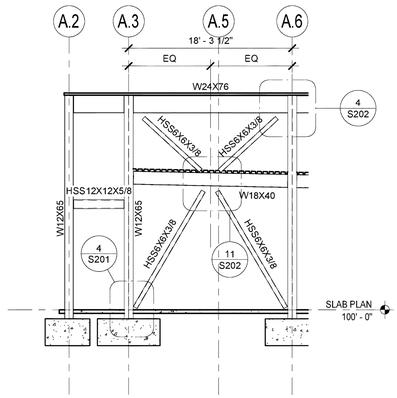

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SCALE = 1/8" = 1'-0"



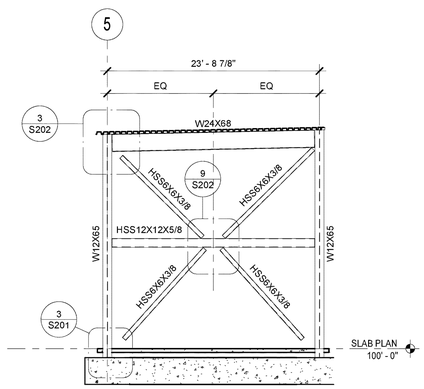

## 3 BRACED FRAME ELEVATION ALONG GRID A.3

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



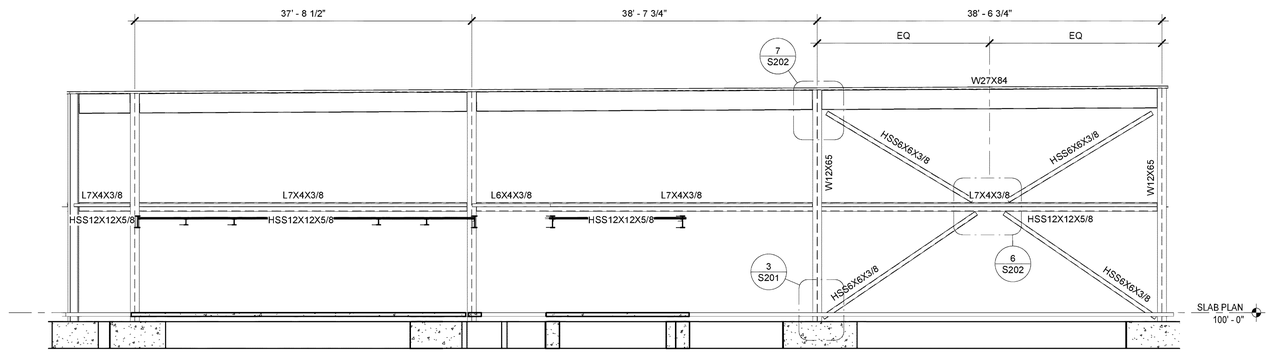

## 4 BRACED FRAME ELEVATION ALONG GRID 5

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



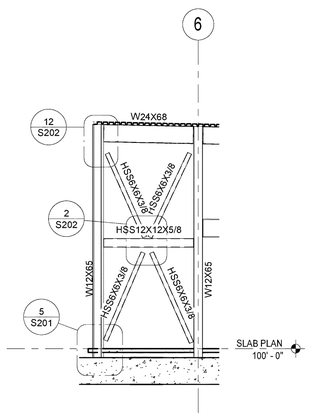

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SCALE = 1/8" = 1'-0"



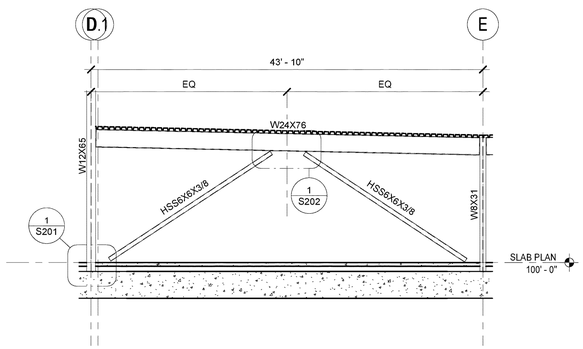

## 6 BRACED FRAME ELEVATION ALONG GRID 5.4

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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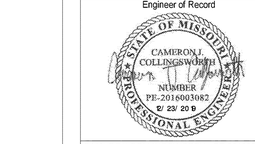

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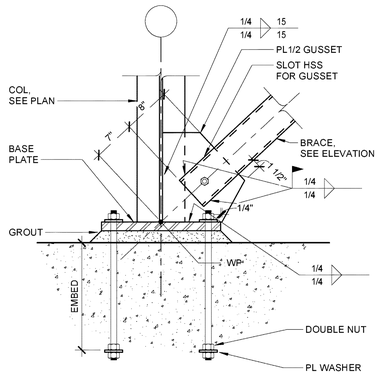
**S200**

**BRACED FRAME ELEVATIONS**

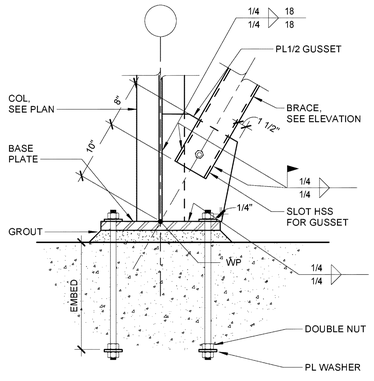

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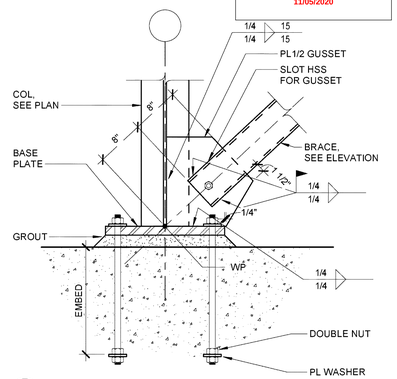
11/05/2020



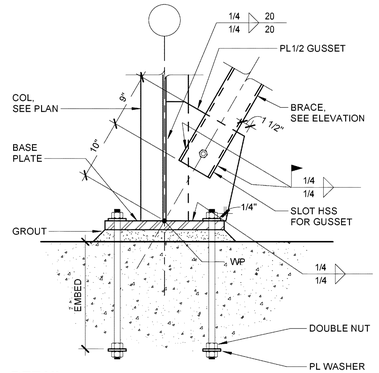

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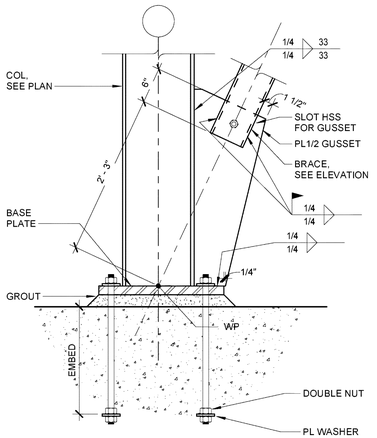

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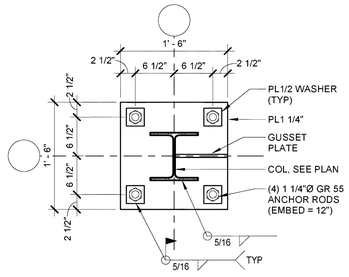

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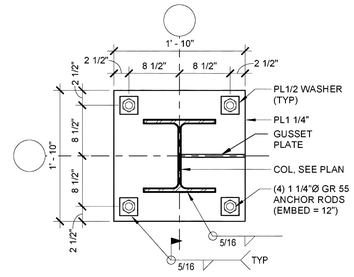

## 4 DETAIL
SCALE = 1" = 1'-0"




## 5 DETAIL
SCALE = 1" = 1'-0"




## 6 BP2 DETAIL
SCALE = 1" = 1'-0"




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

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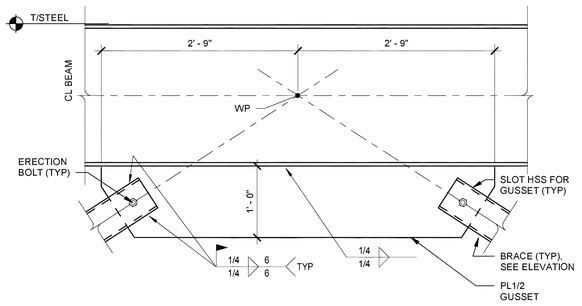
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Drawing No.
**S201**
**BRACED FRAME SECTIONS AND DETAILS**

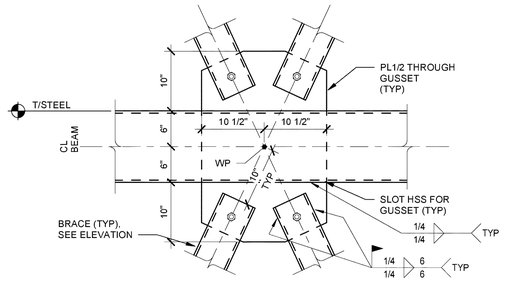
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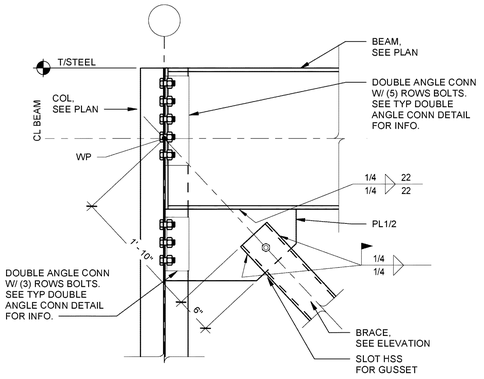
11/05/2020



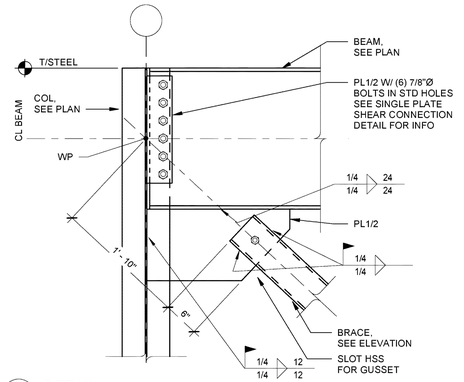

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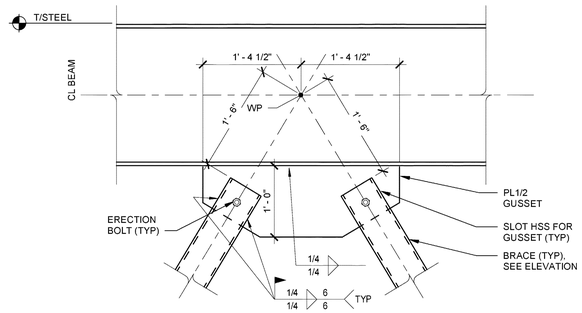

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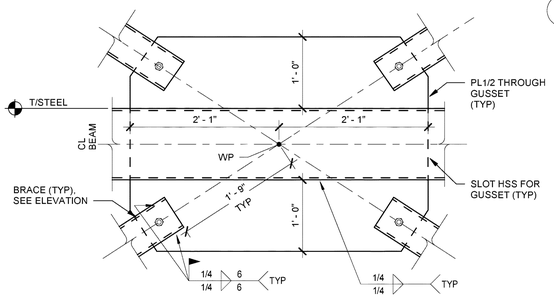

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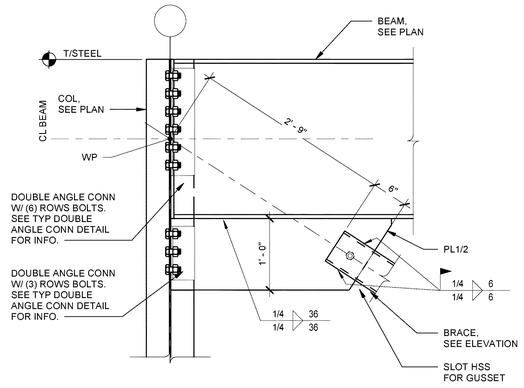

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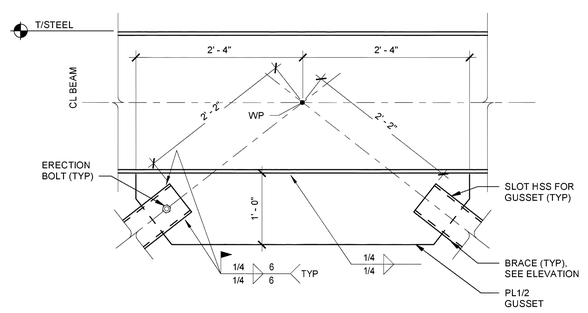

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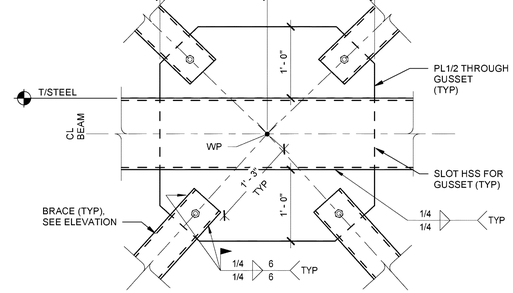

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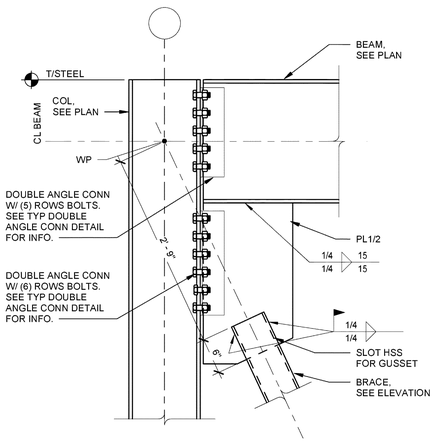

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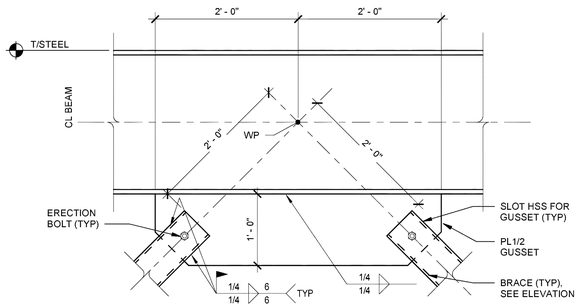

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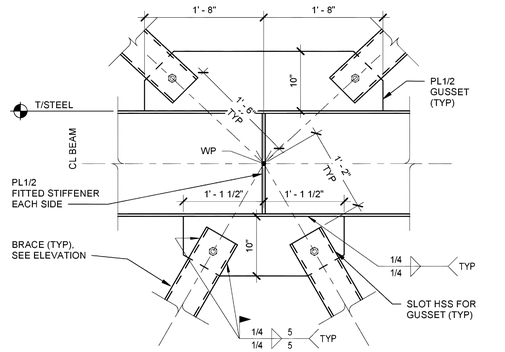

## 9 DETAIL
SCALE = 1" = 1'-0"




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




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




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


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12/23/2019
PROFESSIONAL ENGINEER

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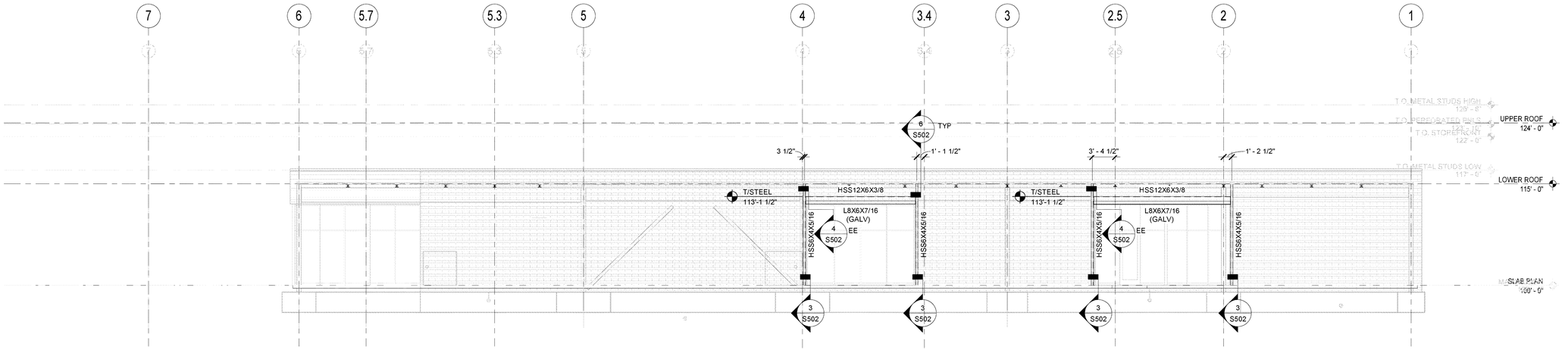
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Drawing No.
**S202**
**BRACED FRAME SECTIONS AND DETAILS**


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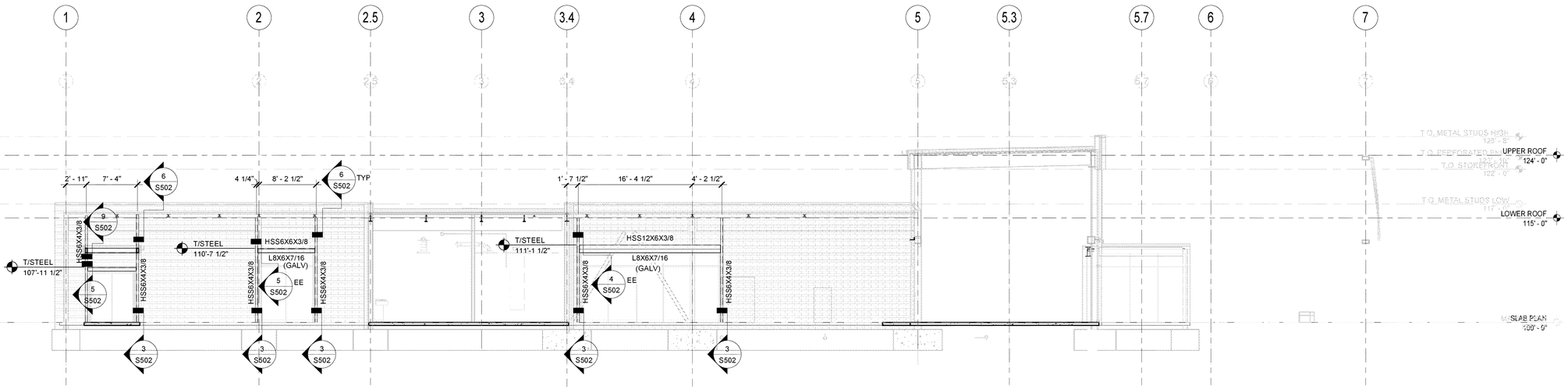
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11/05/2020




## 1 MISCELLANEOUS STEEL ELEVATION - EAST

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




## 2 MISCELLANEOUS STEEL ELEVATION - WEST

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


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Drawing No.

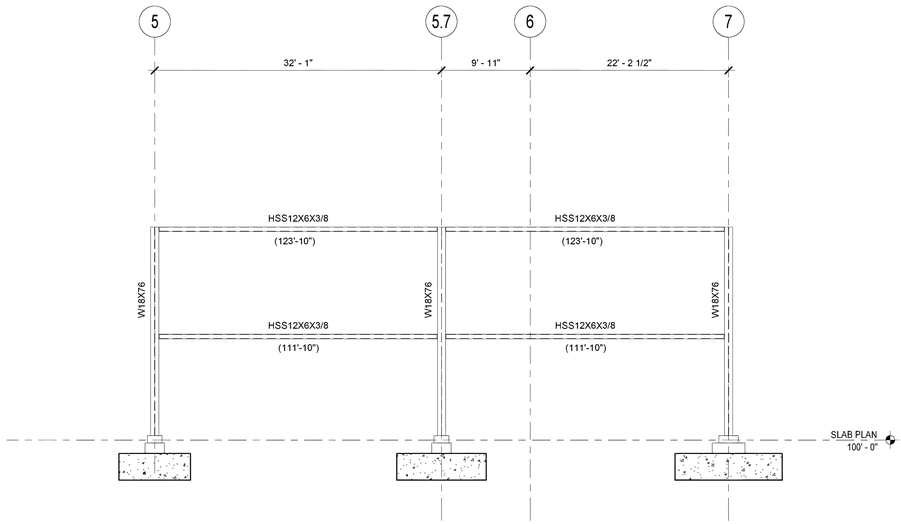
**S203**

**MISCELLLANEOUS STEEL ELEVATIONS**

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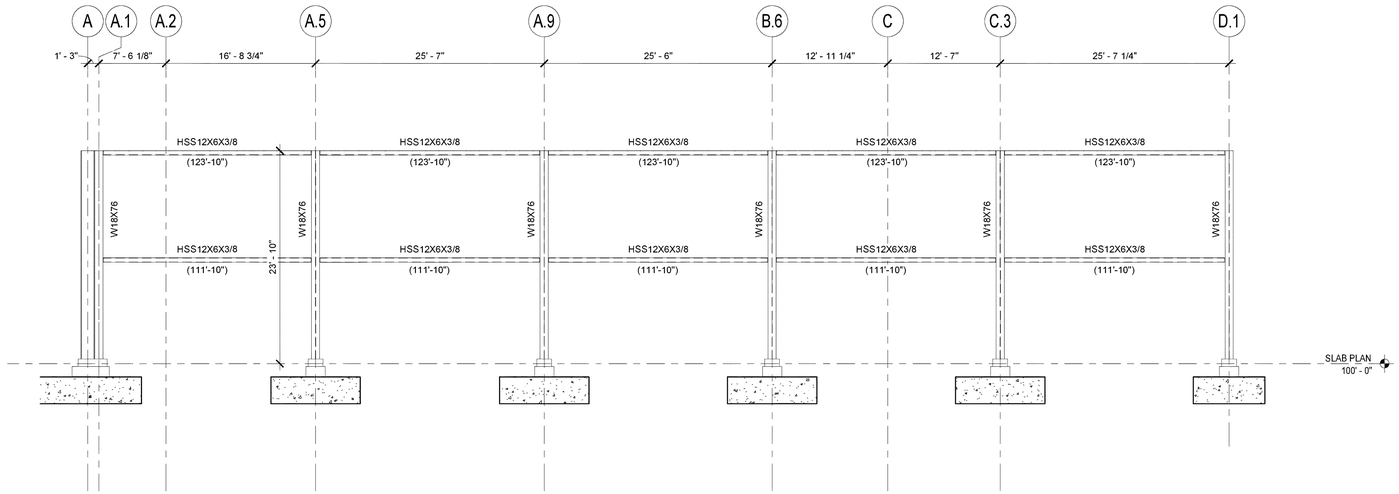
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11/05/2020




## 1 SCRIM EALL ELEVATION - WEST

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




## 2 SCRIM WALL ELEVATION - SOUTH

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


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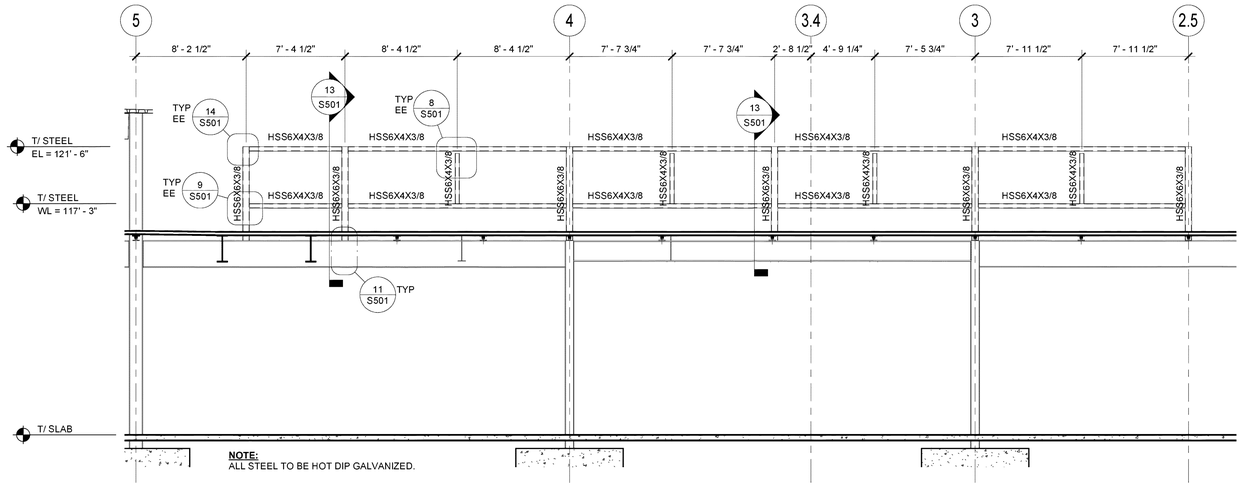
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|---|---|---|
| WP10 | 12/23/2019 | CWS |

Drawing No.
**S204**
**SCRIM WALL ELEVATIONS**

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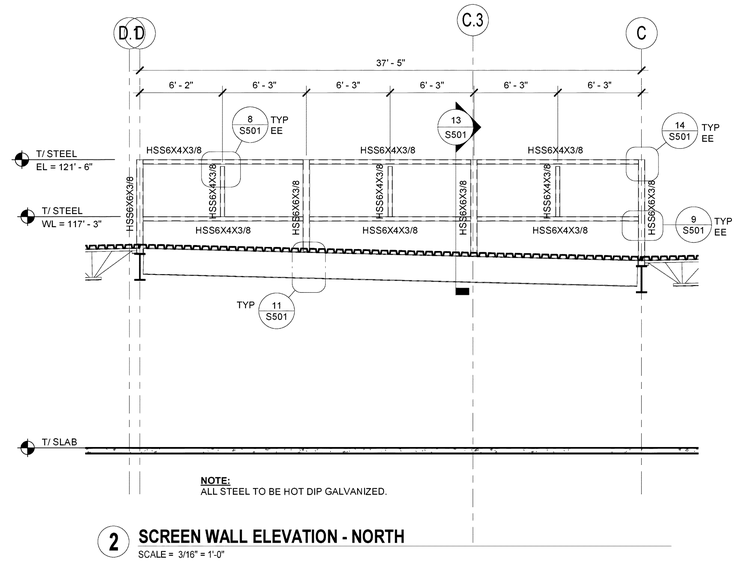
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11/05/2020



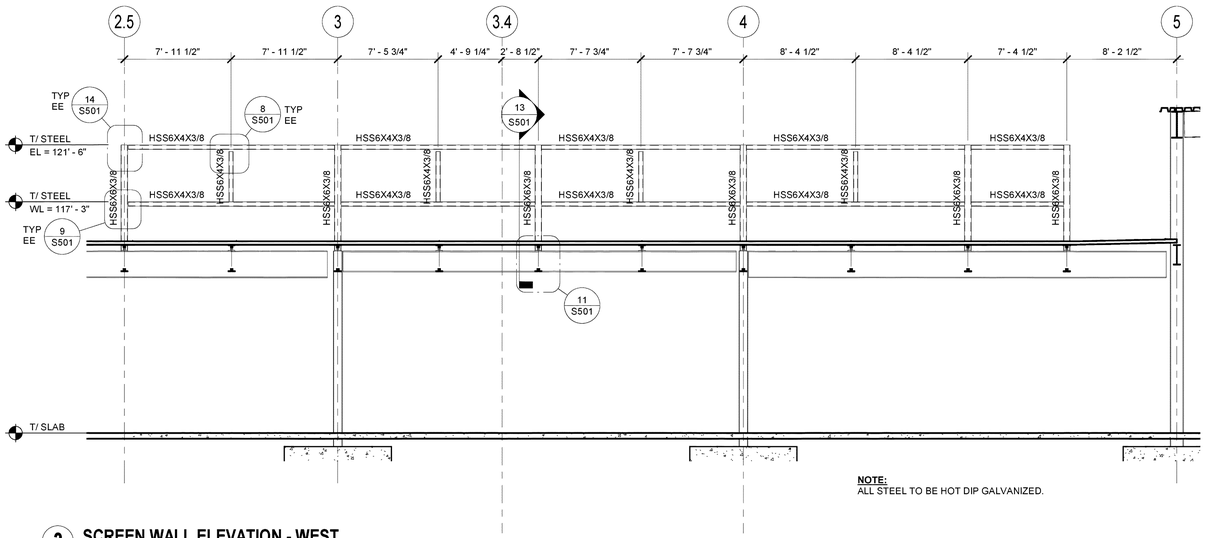

## 1 SCREEN WALL ELEVATION - EAST

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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|---|---|---|

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

Drawing No.

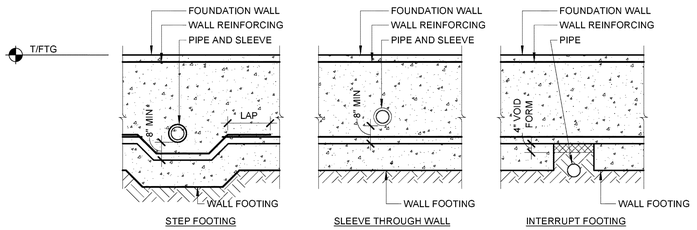
# S205

SCREEN WALL ELEVATIONS

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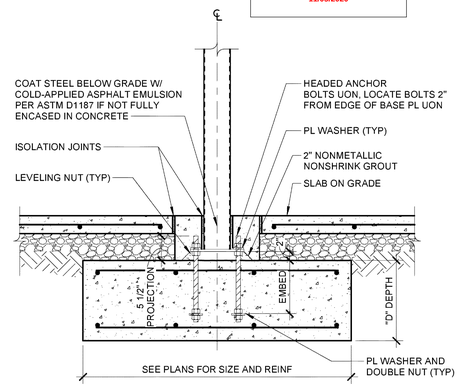
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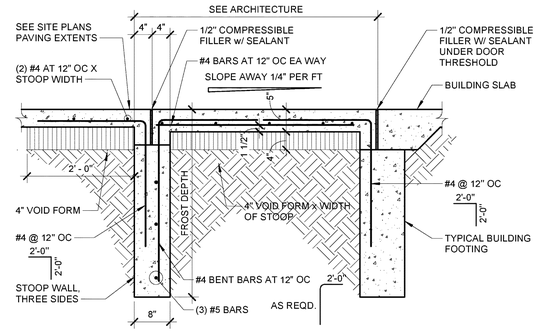



NOTES:
1. DIAMETER OF NEW SLEEVE FOR EXISTING PIPE SHALL BE 2" LARGER THAN EXISTING PIPE DIAMETER.

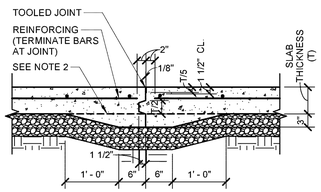
## 1 TYPICAL FOUNDATION WALL PENETRATION
SCALE = 3/8" = 1'-0"



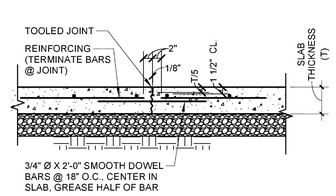

## 2 TYP SPREAD FOOTING DETAIL
SCALE = 3/4" = 1'-0"




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




CONSTRUCTION JOINT - KEYED




CONSTRUCTION JOINT - DOWELED



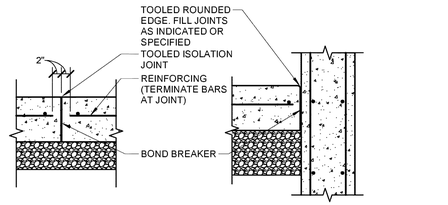

CONTROL JOINT (C.J.)




EXPANSION JOINT (E.J.)

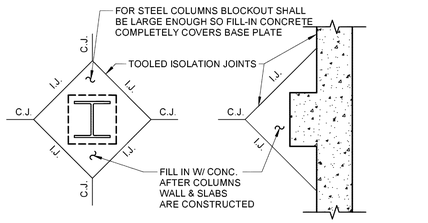
NOTES :
1. CONTRACTOR HAS OPTION OF USING EITHER DOWELED OR KEYED CONSTRUCTION JOINT.
2. OMIT THICKENED PORTION OF SLAB WHERE SLAB THICKNESS IS 8" OR GREATER.
3. JOINTS NOTED ON PLAN BY C.J. MAY BE EITHER CONSTRUCTION JOINTS OR CONTROL JOINTS AT CONTRACTOR'S OPTION. JOINTS TERMINATING A POUR SHALL BE 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

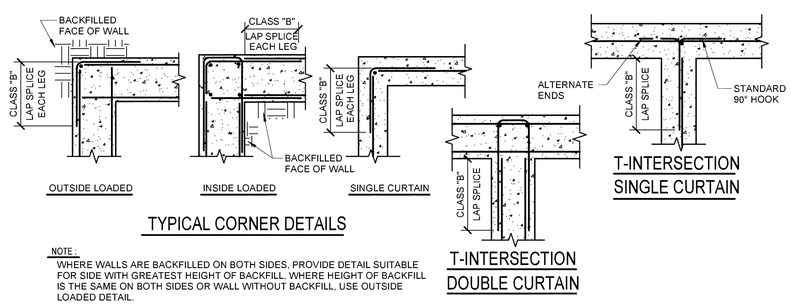
ISOLATION JOINT AT WALL




PLAN AT INTERIOR COLUMN

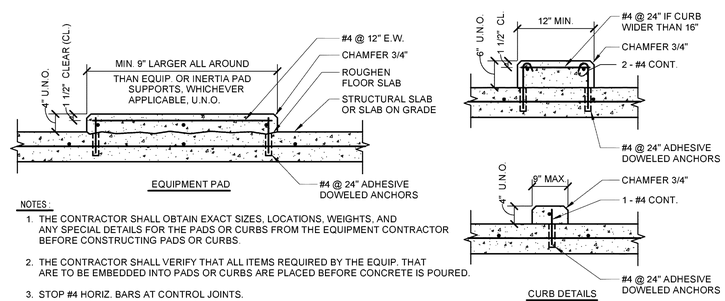
PLAN AT EXTERIOR COLUMN OR PILASTER

## 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.

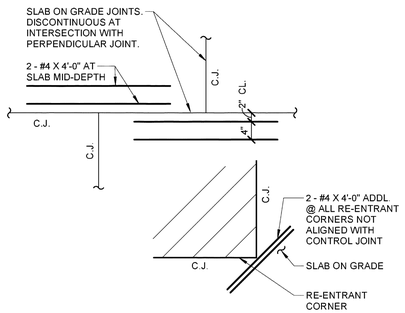
## 6 PLAN-TYPICAL WALL CORNER AND T-INTERSECTION REINFORCING
SCALE = 3/4" = 1'-0"




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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6/ 23/ 2019
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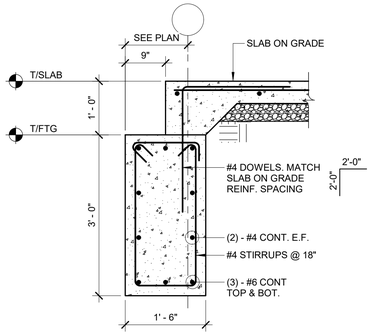
| Project No. | Date | Drawn |
|---|---|---|
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Drawing No.
**S300**
**TYPICAL CONCRETE SECTIONS AND DETAILS**

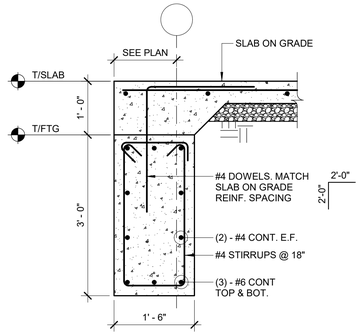
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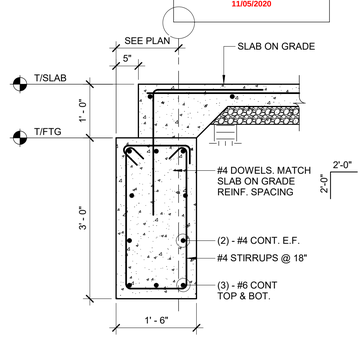
11/05/2020



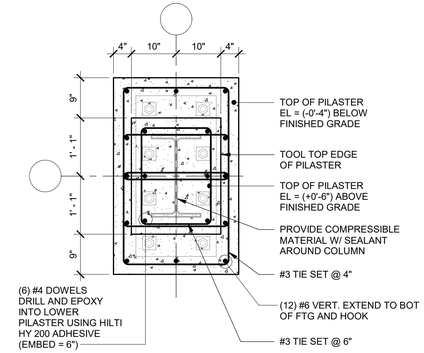

## 1 SECTION
SCALE = 3/4" = 1'-0"



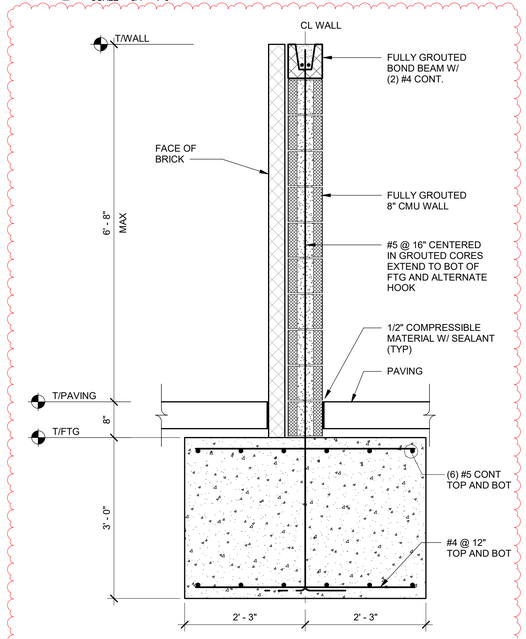

## 2 SECTION
SCALE = 3/4" = 1'-0"




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



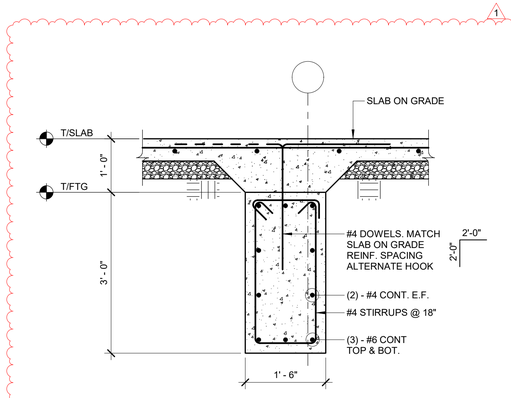

## 4 DETAIL
SCALE = 3/4" = 1'-0"




## 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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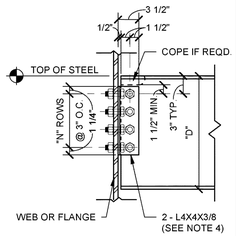

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|---|---|---|
| 1 | ADDENDUM 1 | 1/13/2020 |

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Drawing No.
**S301**
**CONCRETE SECTIONS AND DETAILS**

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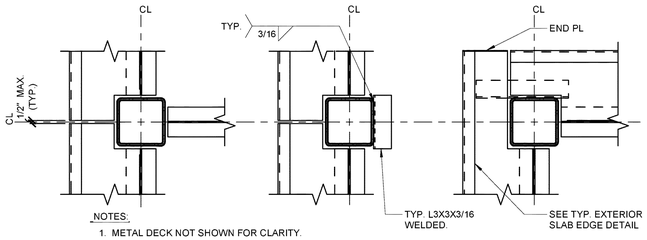

| DOUBLE ANGLE CONNECTION SCHEDULE | |
|---|---|
| NOMINAL BEAM SIZE "D" | NUMBER OF BOLT ROWS "N" |
| W8 | 2 |
| W10 | 2 |
| W12 | 2 |
| W14 | 3 |
| W16 | 3 |
| W18 | 3 |
| W21 | 4 |
| W24 | 4 |
| W27 | 5 |
| W30 | 5 |
| W33 | 8 |
| W36 | 8 |
| W40 | 10 |
| W44 | 12 |

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.

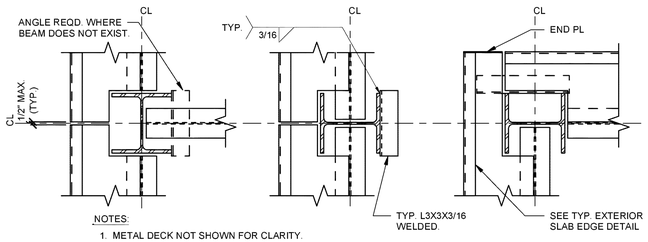
## 4 TYPICAL DOUBLE ANGLE CONNECTION DETAIL
SCALE = 1" = 1'-0"




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.

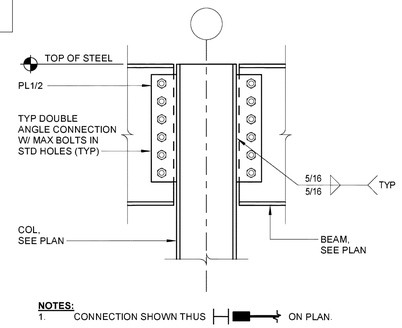
## 2 TYP. DECK SUPPORT @ HSS COLUMNS
SCALE = 1" = 1'-0"




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.

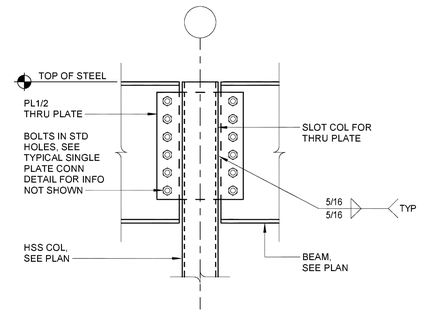
## 1 TYP. DECK SUPPORT @ W COLUMNS
SCALE = 1" = 1'-0"




**NOTES:**

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

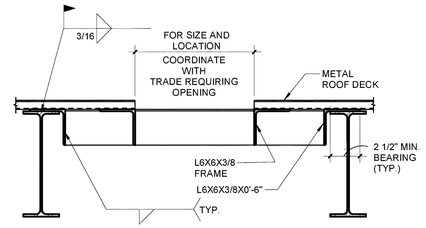
## 5 TYPICAL DRAG SPLICE CONN @ W COL
SCALE = 1" = 1'-0"



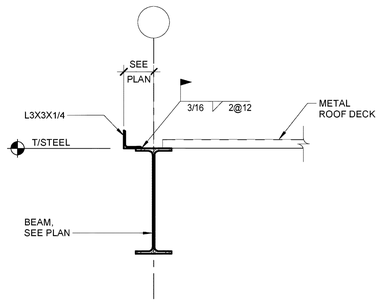

**NOTES:**

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

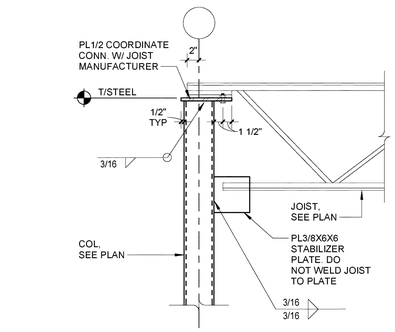
## 6 TYPICAL DRAG SPLICE CONN @ HSS COL
SCALE = 1" = 1'-0"



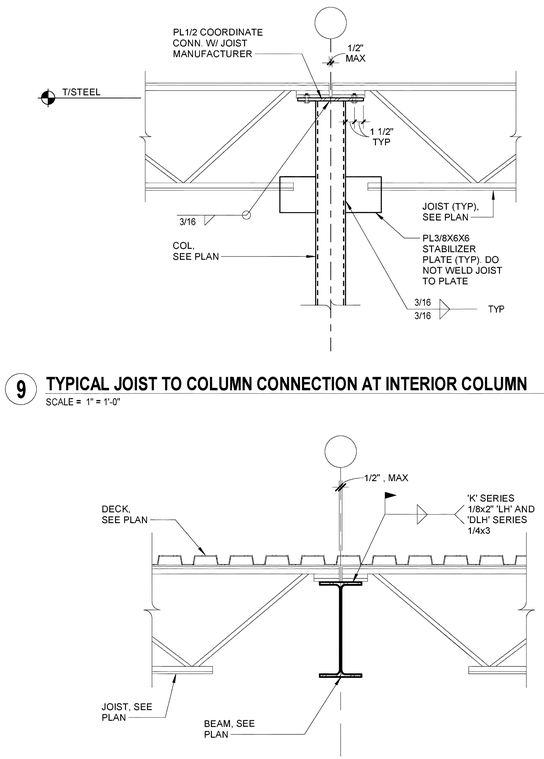

## 3 TYP. FRAMING @ ROOF OPENING AND ROOF DRAINS
SCALE = 1" = 1'-0"



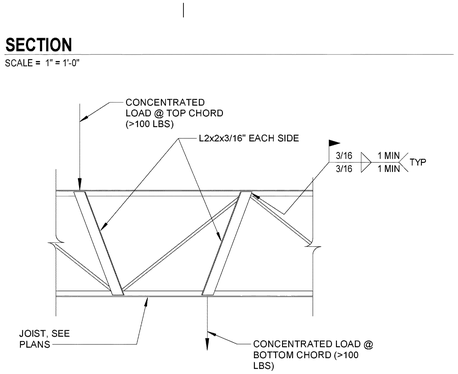

## 7 TYPICAL DECK EDGE DETAIL
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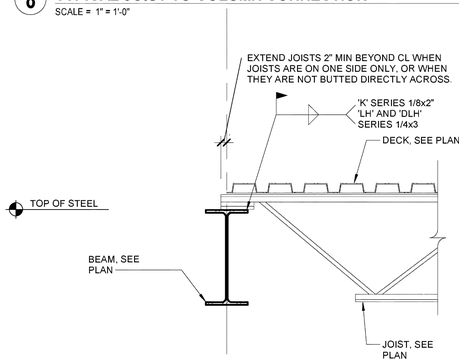

## 8 TYPICAL JOIST TO COLUMN CONNECTION
SCALE = 1" = 1'-0"




## 9 TYPICAL JOIST TO COLUMN CONNECTION AT INTERIOR COLUMN
SCALE = 1" = 1'-0"




## 10 SECTION
SCALE = 1" = 1'-0"



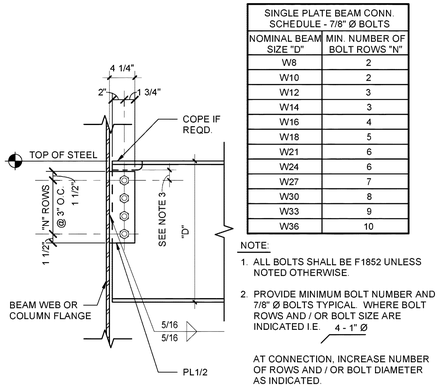

## 11 TYPICAL JOIST BEARING @ EXTERIOR BEAM
SCALE = 1" = 1'-0"




## 12 TYPICAL JOIST BEARING @ INTERIOR BEAM
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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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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|---|---|---|
| | | |

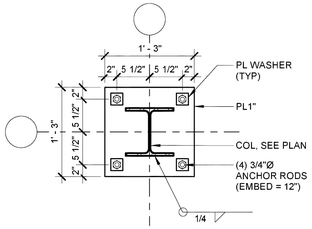
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| WP10 | 12/23/2019 | CWS |

Drawing No.
**S500**
**TYPICAL STEEL SECTIONS AND DETAILS**

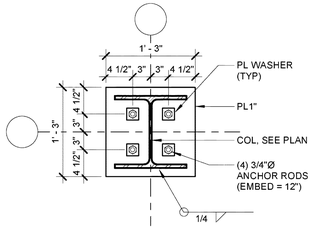
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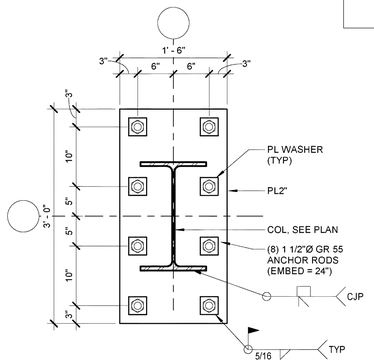
11/05/2020



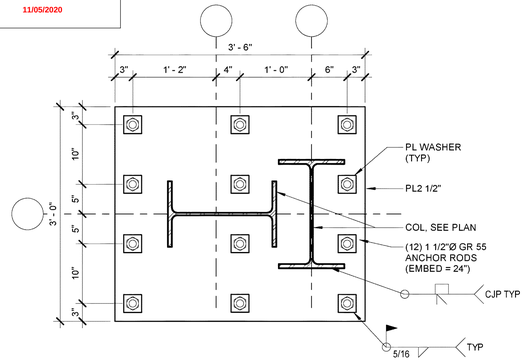

## 1 BP1 DETAIL
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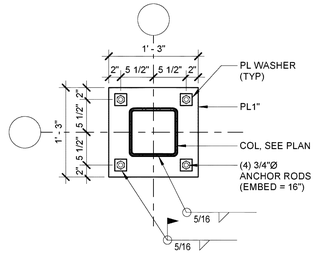

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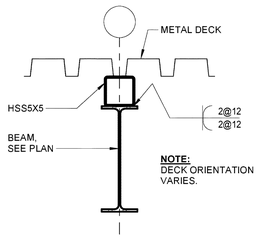

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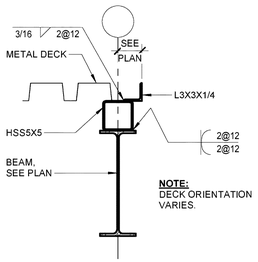

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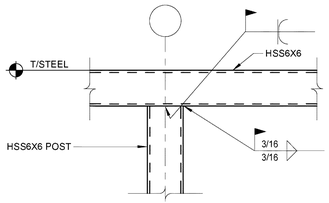

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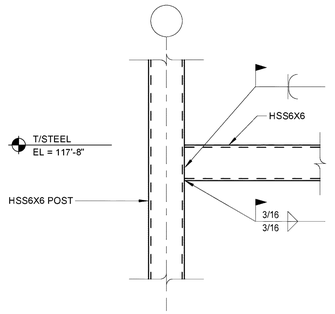

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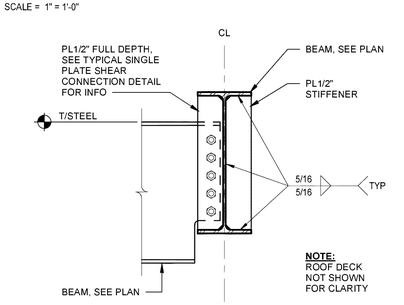

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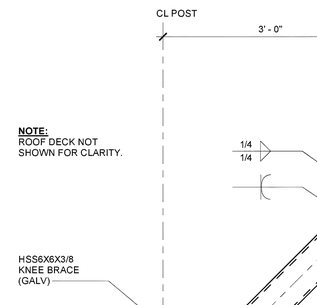

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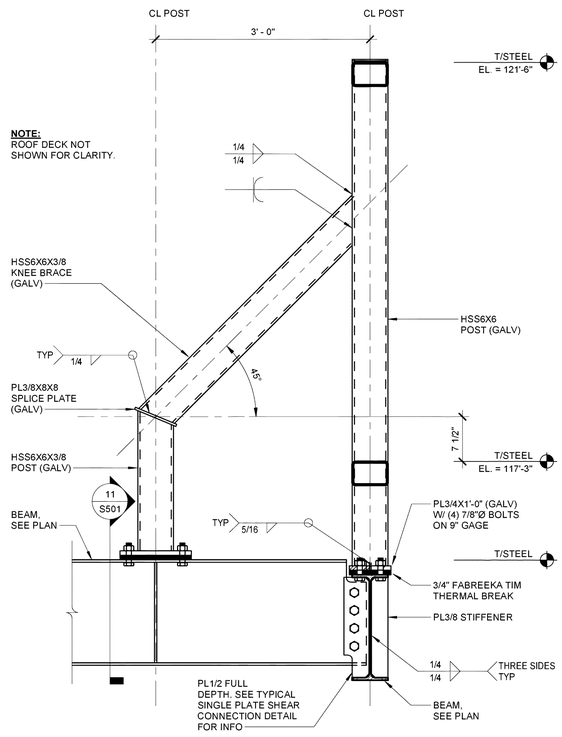

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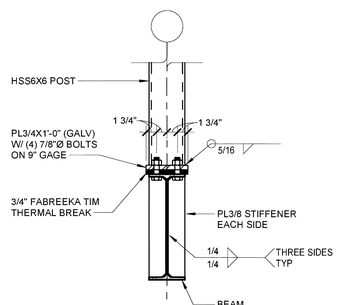

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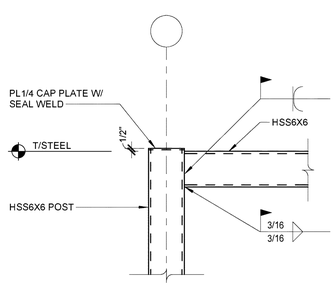

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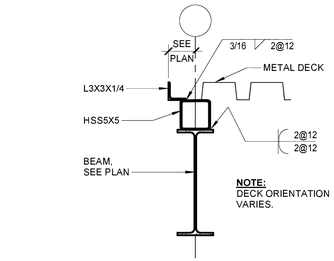

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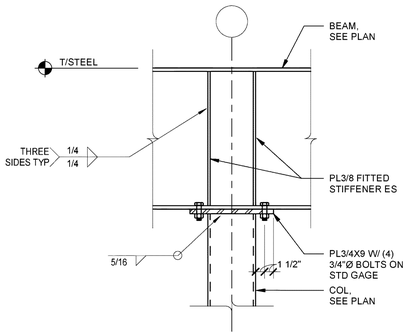

## 13 SECTION
SCALE = 1" = 1'-0"




## 14 SECTION
SCALE = 1" = 1'-0"




## 15 SECTION
SCALE = 1" = 1'-0"





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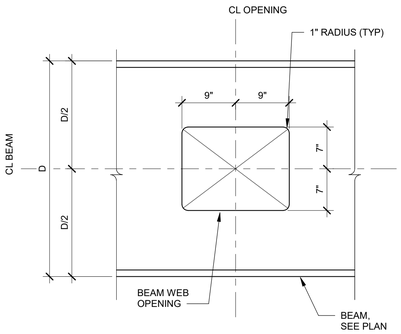
Drawing No.

# S501
**STEEL SECTIONS AND DETAILS**

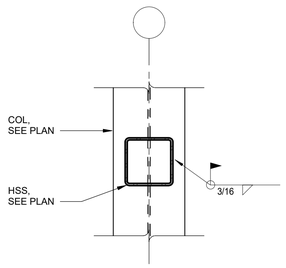

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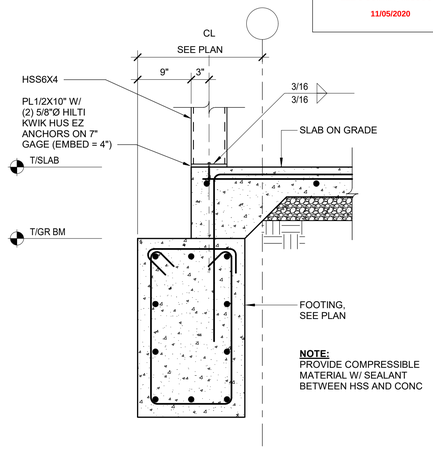
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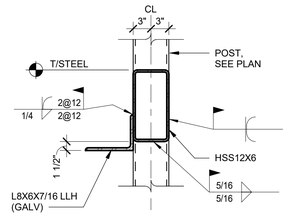

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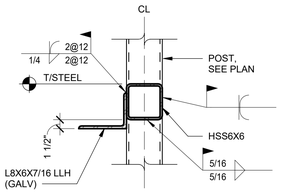

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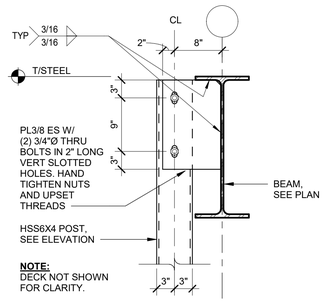

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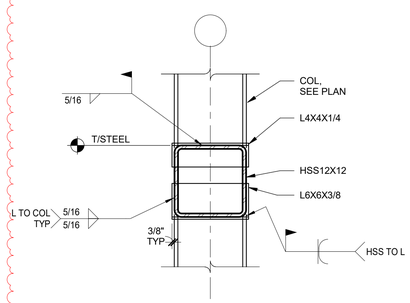

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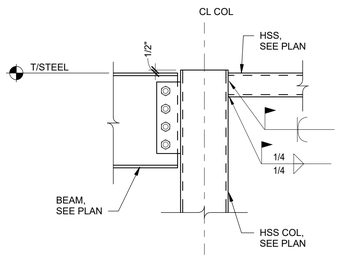

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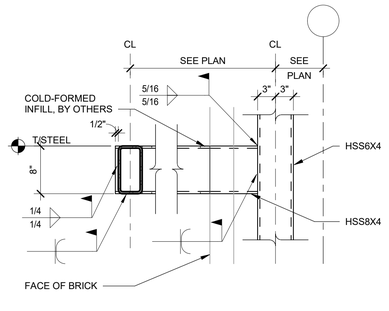

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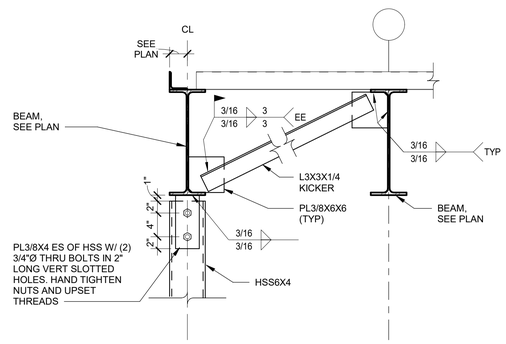

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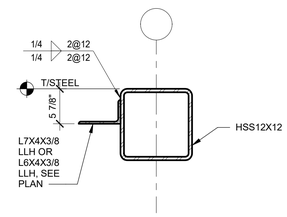

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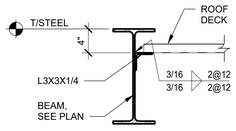


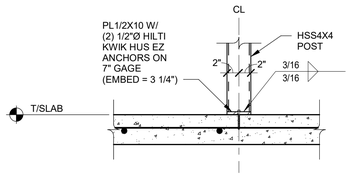

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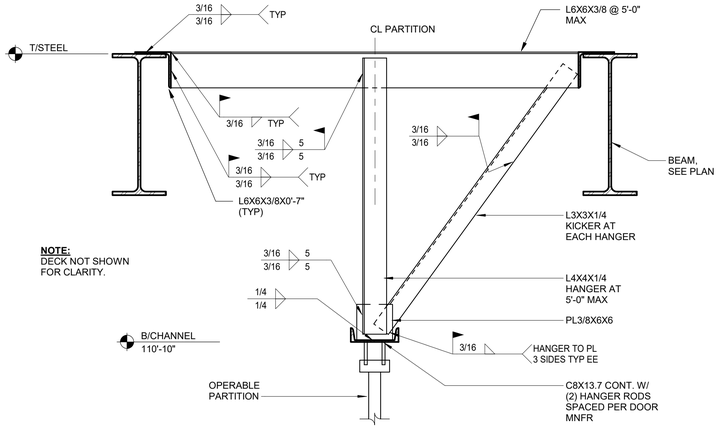



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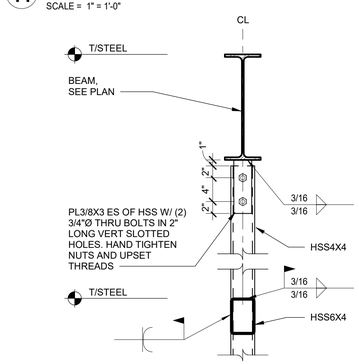


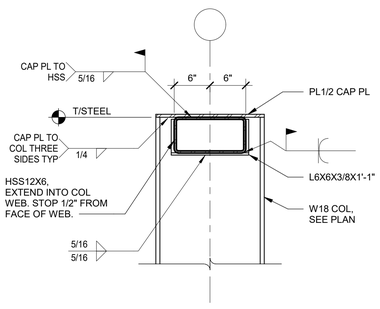



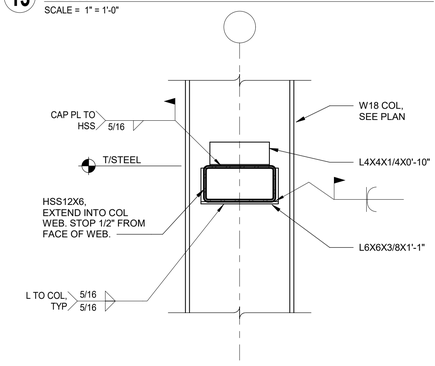

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## 15 SECTION
SCALE = 1" = 1'-0"




## 16 SECTION
SCALE = 1" = 1'-0"




## 17 SECTION
SCALE = 1" = 1'-0"


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JACKSON COUNTY

PACKAGE 10

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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

| | |
|---|---|
| TO X | TELECOMMUNICATIONS OUTLET: MAY BE USED FOR VOICE, DATA, FAX, CABLE TV, OR ANY COMBINATION. COVER PLATE AND JACKS BY OTHERS.<br>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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STATE OF MISSOURI
JACOB ADAM NELSON
NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019


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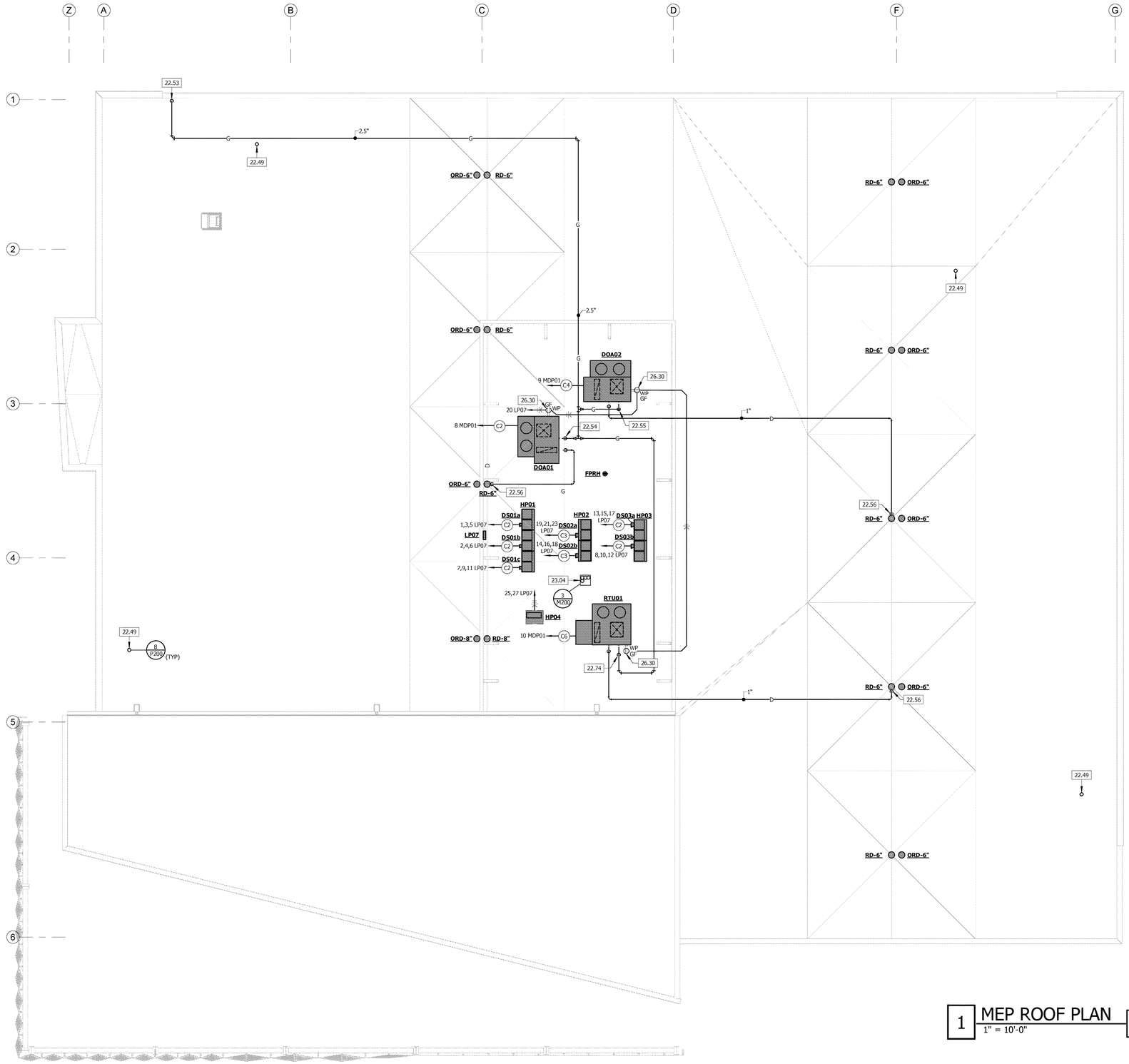
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**MEP100**
**MECH & ELEC TITLE SHEET**

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11/05/2020




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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Engineer of Record

STATE OF MISSOURI
JACOB ADAM NELSON
NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019

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| WP10 | 12/23/2019 | Author |

Drawing No.

**MEP200**

MEP ROOF PLAN


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## TELECOM CONDUITS

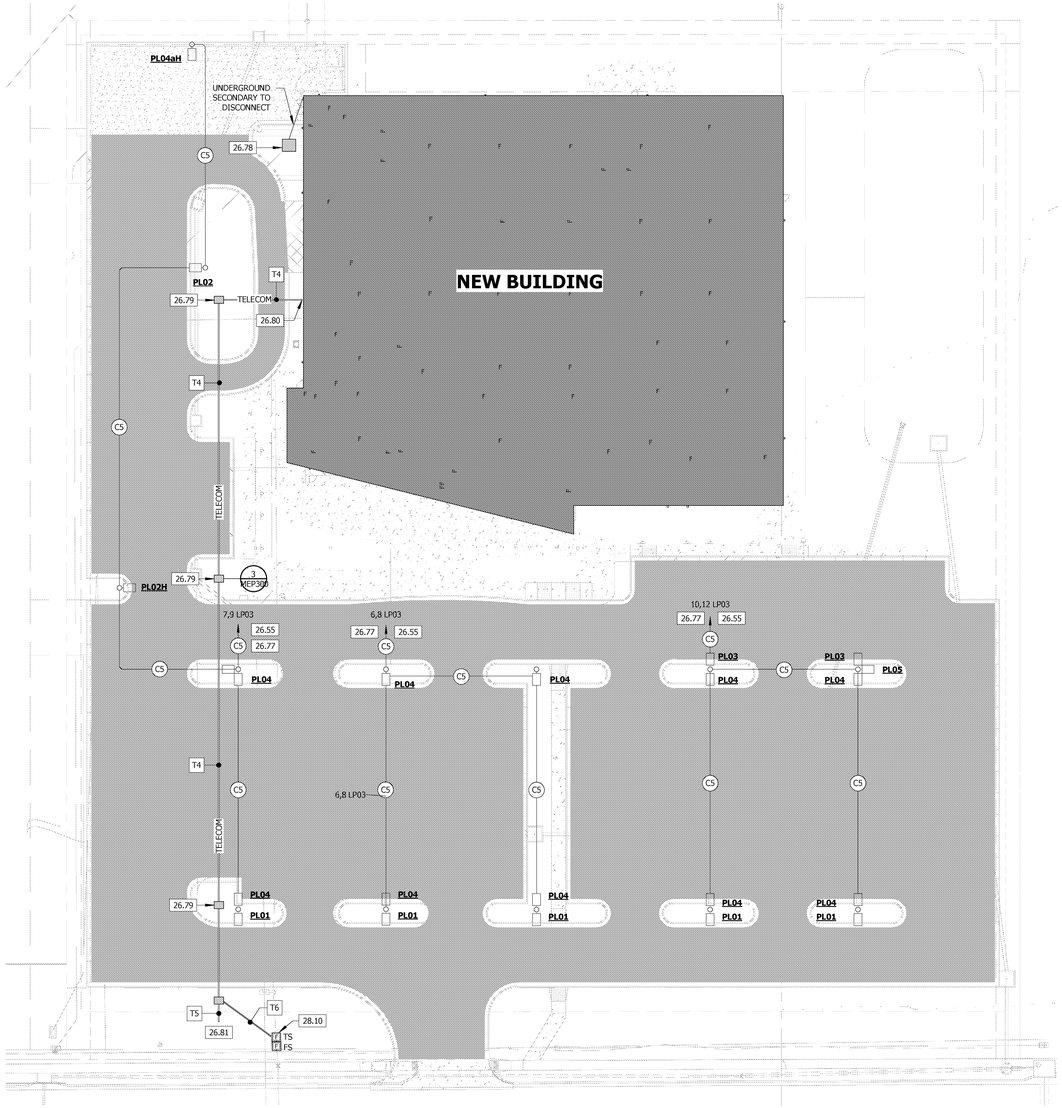
| KEY VALUE | SIZE AND QUANTITY |
|---|---|
| T4 | (3) 4" CONDUIT(S) WITH PULL STRING FOR AT&T CONDUITS AND (2) 2" CONDUITS FOR FIRE ALARM TO FIRE SPRINKLER VAULT. |
| T5 | (3) 4" CONDUIT(S) WITH PULL STRING. |
| T6 | (2) 2" CONDUIT(S) WITH PULL STRING. |

## CONDUIT AND CONDUCTORS

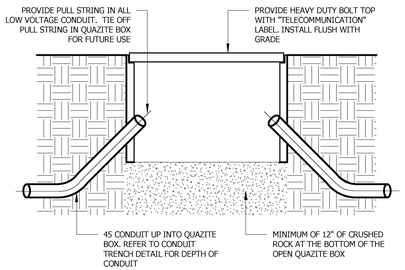
| KEY VALUE | SIZE AND QUANTITY |
|---|---|
| C5 | (2) #8 AND (1) #10 GROUND IN 0.75" CONDUIT. |

## KEYNOTE LEGEND

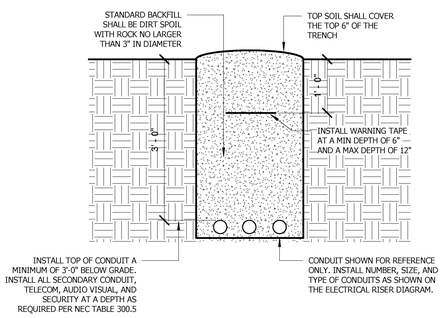
| KEY VALUE | KEYNOTE TEXT |
|---|---|
| 26.55 | CIRCUIT THROUGH LIGHTING CONTACTOR LC04. |
| 26.77 | CIRCUIT HOMERUN DIRECTLY BACK TO PANELBOARD. NO DAISY CHAINING IS ALLOWED THROUGH OTHER PARKING LOT LIGHT CIRCUITS. |
| 26.78 | 208/120-VOLT 3-PHASE UTILITY TRANSFORMER. COORDINATE SIZE AND LOCATION 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. |




1 MEP SITE PLAN
1" = 30'-0"




4 INGRADE TELECOM BOX
NOT TO SCALE




3 CONDUIT TRENCH
NOT TO SCALE

## 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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Drawing No.
**MEP300**
MEP SITE PLAN

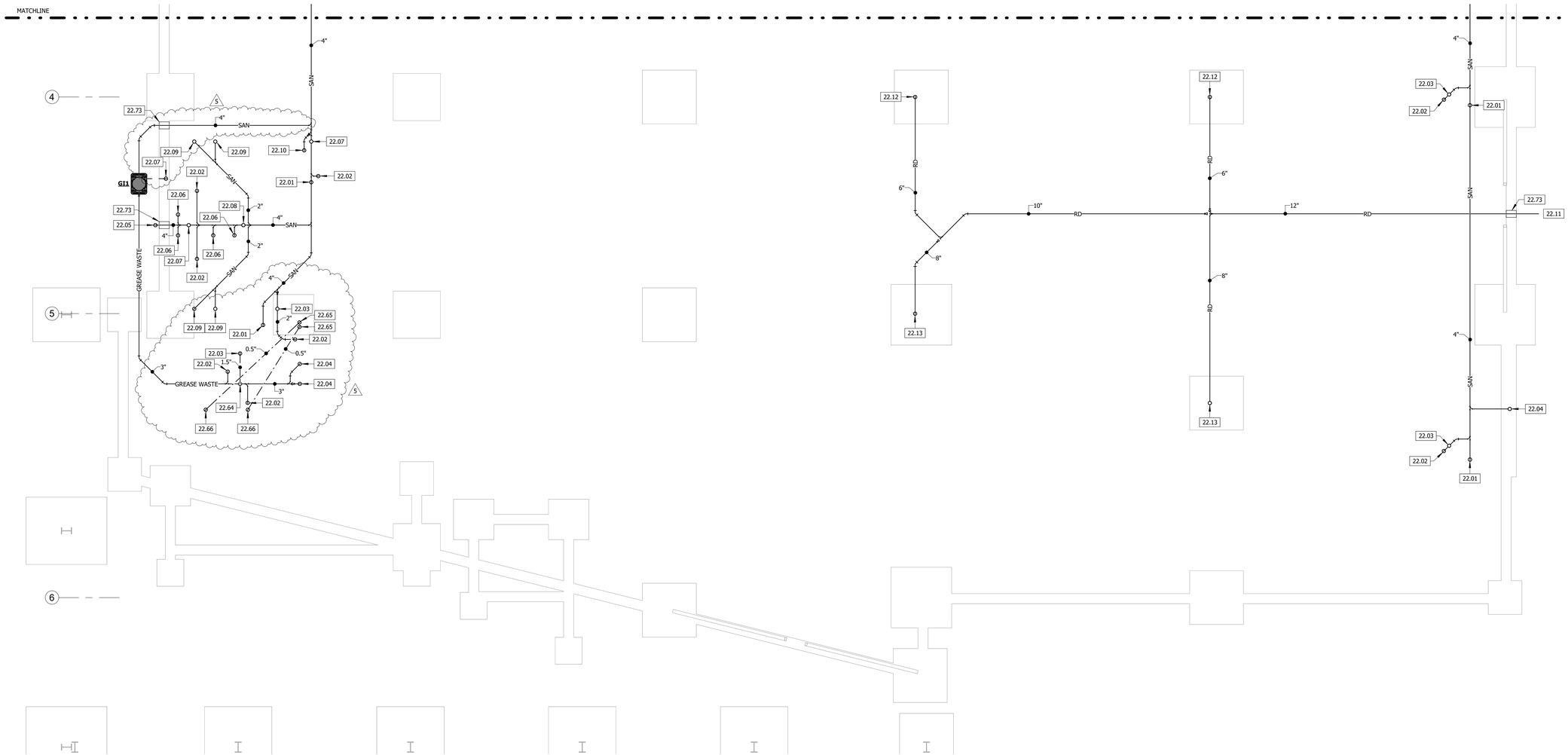

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## KEYNOTE LEGEND

| 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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|---|---|---|
| 5 | SI #03 | 03-26-2020 |

| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12/23/2019 | AH |

Drawing No.
**P100**
**UNDERGROUND PLUMBING PLAN - AREA A**

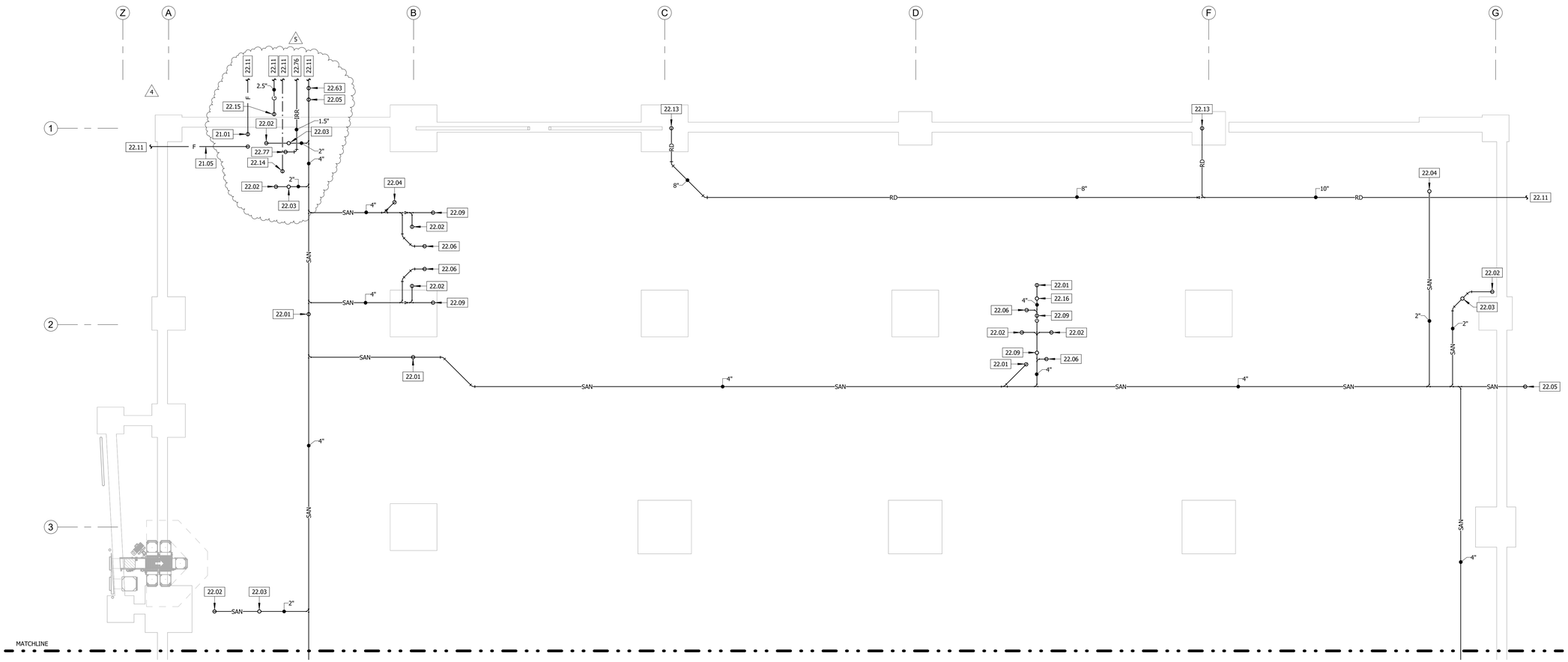

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## KEYNOTE LEGEND

| 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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| 4 | SI #02 | 03-13-2020 |
| 5 | SI #03 | 03-26-2020 |

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Drawing No.
**P101**
**UNDERGROUND PLUMBING PLAN - AREA B**

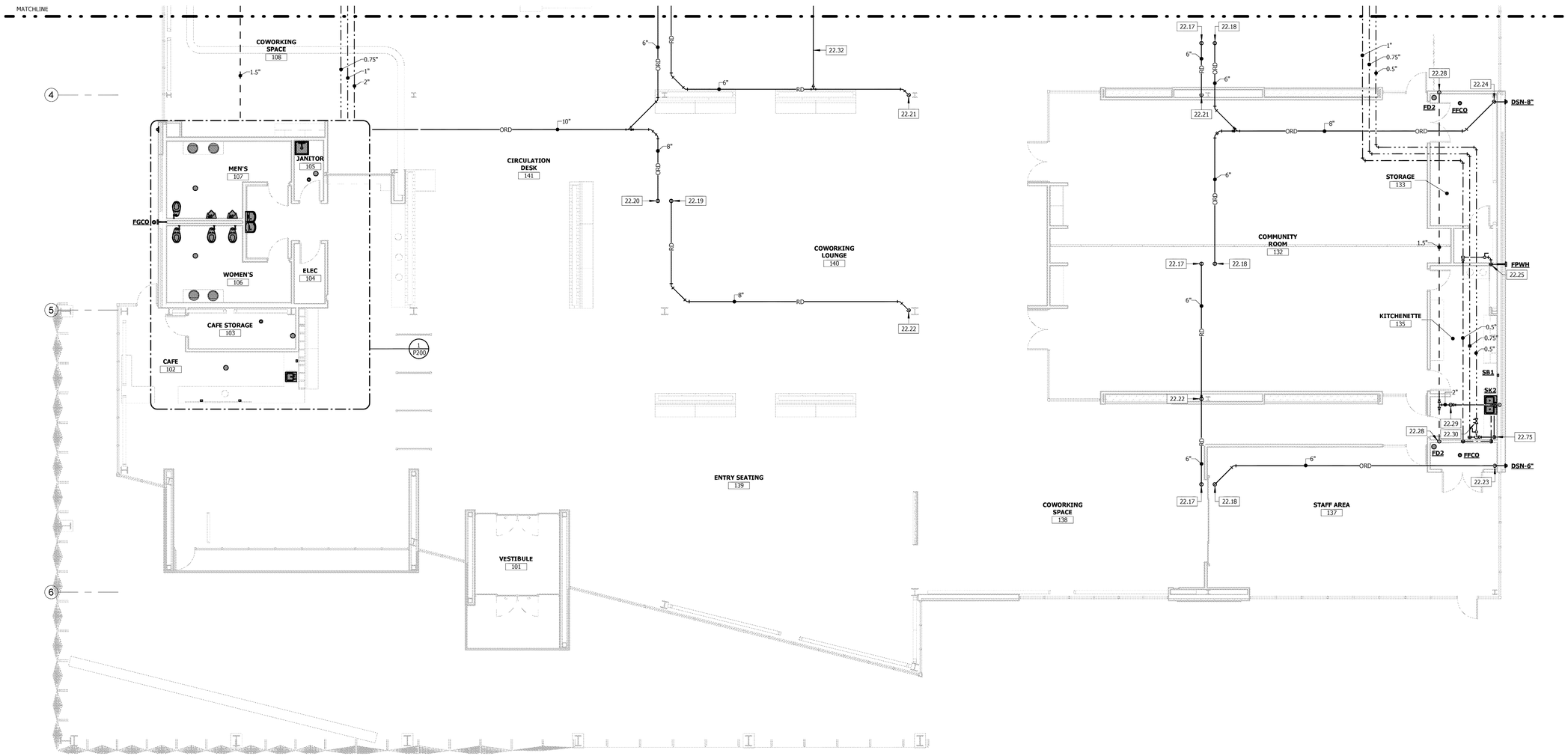

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## KEYNOTE LEGEND

| 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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Drawing No.
**P102**
PLUMBING PLAN - AREA A

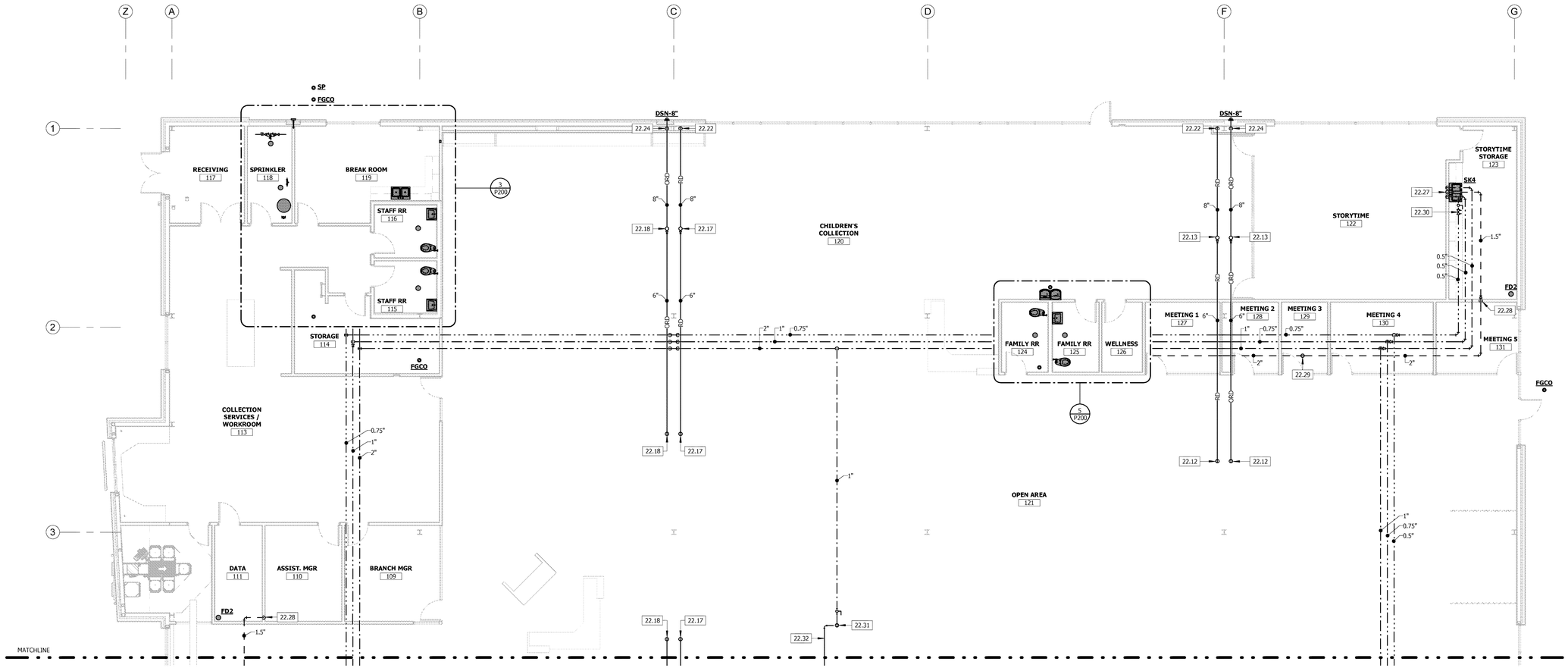
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## KEYNOTE LEGEND

| 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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| WP 10 | 12/23/2019 | AH |

Drawing No.
**P103**
**PLUMBING PLAN - AREA B**

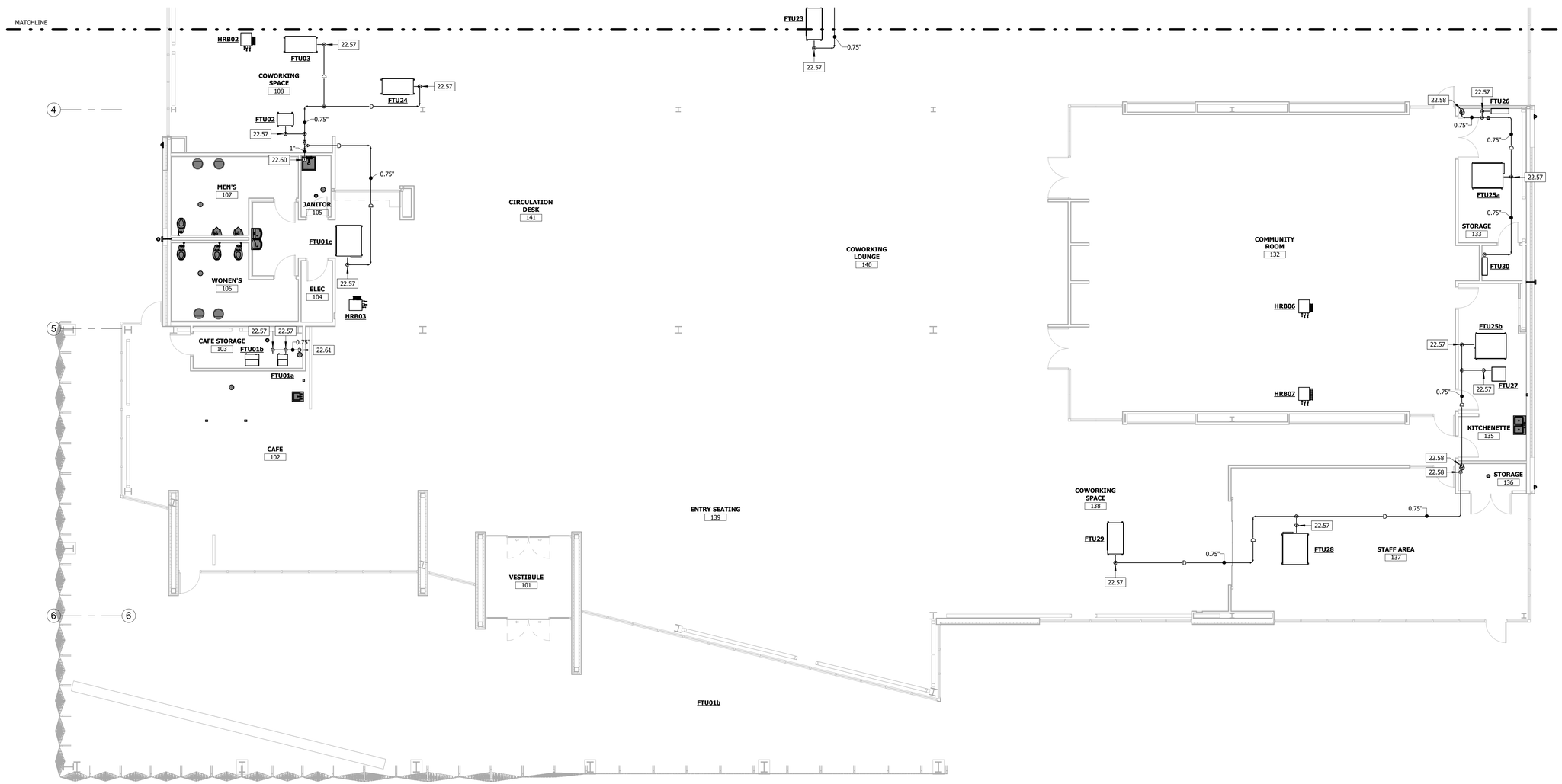
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## KEYNOTE LEGEND

| 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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|---|---|---|
| WP10 | 12/23/2019 | AH |

Drawing No.
**P104**
**CONDENSATE PIPING PLAN - AREA A**

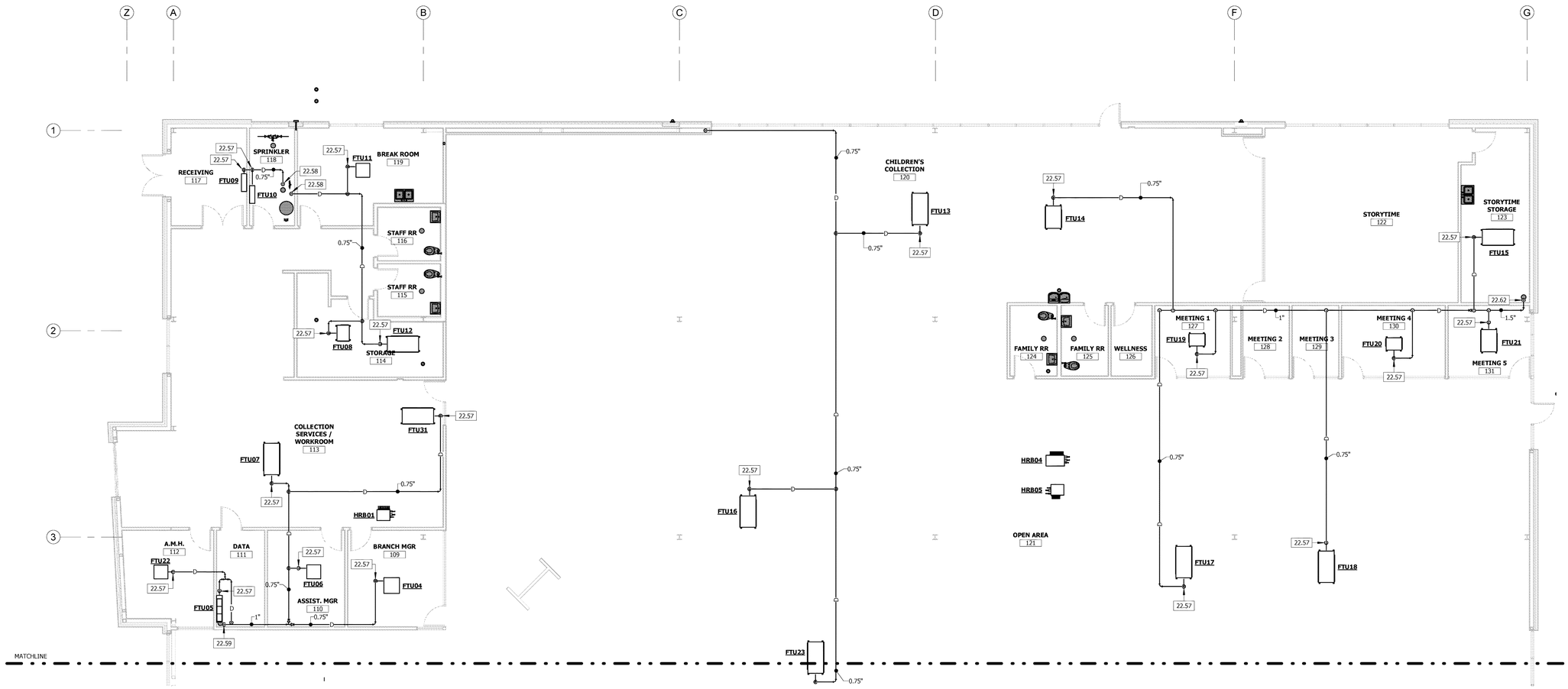

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## KEYNOTE LEGEND

| 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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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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|---|---|---|
| | | |

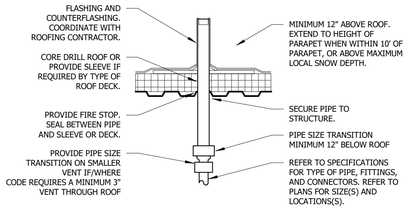
| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12/23/2019 | AH |

Drawing No.
**P105**
CONDENSATE PIPING PLAN - AREA B


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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020



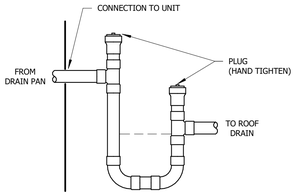

**NOTES:**

1. MAINTAIN 10 FOOT CLEARANCE FORM OUTSIDE AIR INTAKES.

2. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION AND/OR FLASHING REQUIREMENTS.

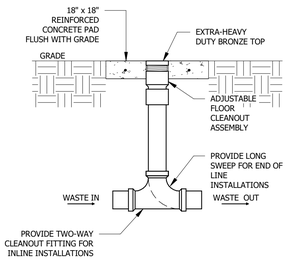
3. COORDINATE LOCATION OF VENT THROUGH ROOF LOCATION WITH ARCHITECT.

## 8 VENT THROUGH ROOF
NOT TO SCALE

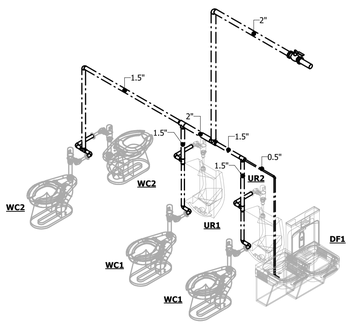



H = FAN INLET PRESSURE (IN. W.C.) + 1"

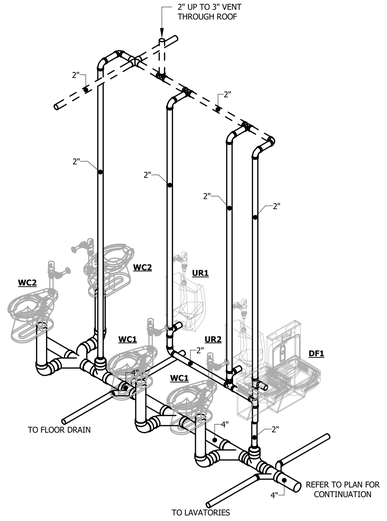
## 7 CONDENSATE DRAIN CONNECTION
NOT TO SCALE




## 6 FINISH GRADE CLEANOUT
NOT TO SCALE



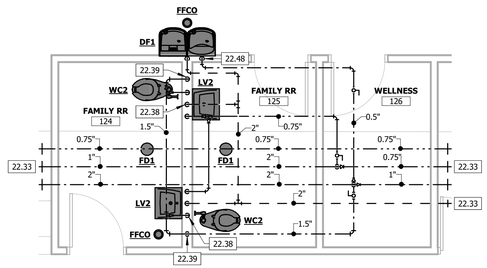

## 4 DOMESTIC WATER ISOMETRIC
NOT TO SCALE



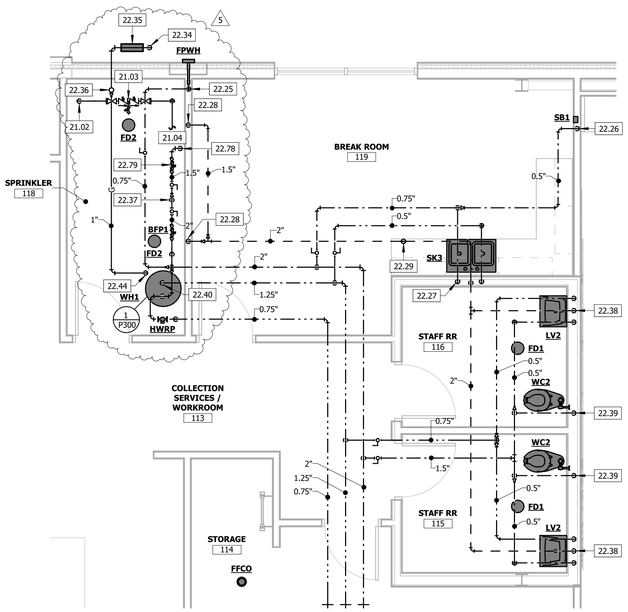

## 2 WASTE AND VENT ISOMETRIC
NOT TO SCALE

## KEYNOTE LEGEND

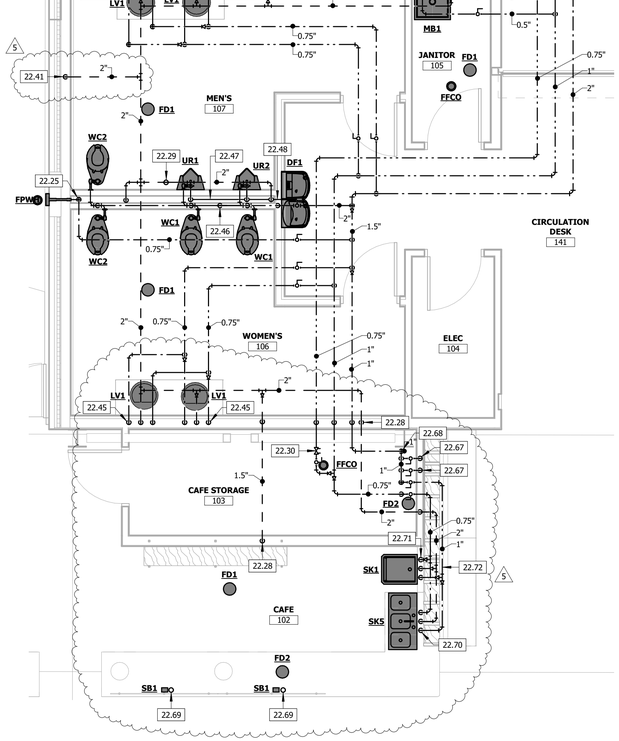
| KEY VALUE | KEYNOTE TEXT |
|---|---|
| 21.02 | FIRE SPRINKLER SERVICE DOWN. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER. |
| 21.03 | FIRE SPRINKLER MANIFOLD WITH PREACTION (DOUBLE INTERLOCKED) DELUGE VALVE AND ASSOCIATED TRIM. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER. |
| 21.04 | ROUTE FIRE SPRINKLER 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. |




## 5 ENLARGED PLUMBING PLAN - FAMILY RESTROOM
1/4" = 1'-0"




## 3 ENLARGED PLUMBING PLAN - STAFF AREA
1/4" = 1'-0"




## 1 ENLARGED PLUMBING PLAN - RESTROOM AND CAFE
1/4" = 1'-0"


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Missouri State Certificate of Authority #000607

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Engineer of Record
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| Revision No. | Description | Date |
|---|---|---|
| 5 | SI #03 | 03-26-2020 |

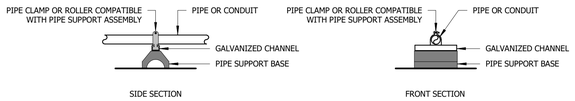
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| WP10 | 12/23/2019 | AH |

Drawing No.
**P200**
**PLUMBING DETAILS**


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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020




**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.

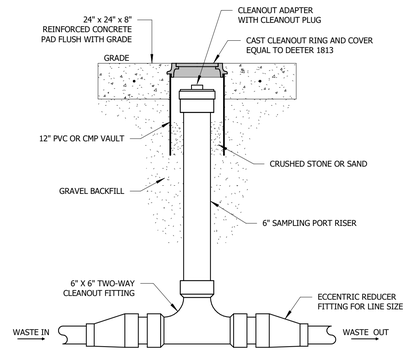
3. PROVIDE ALL NECESSARY PIPE SUPPORT ASSEMBLY ACCESSORIES FOR PROPER PIPE INSTALLATION SUCH AS SLOPING AND ELEVATING TO CLEAR OBSTRUCTIONS.

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



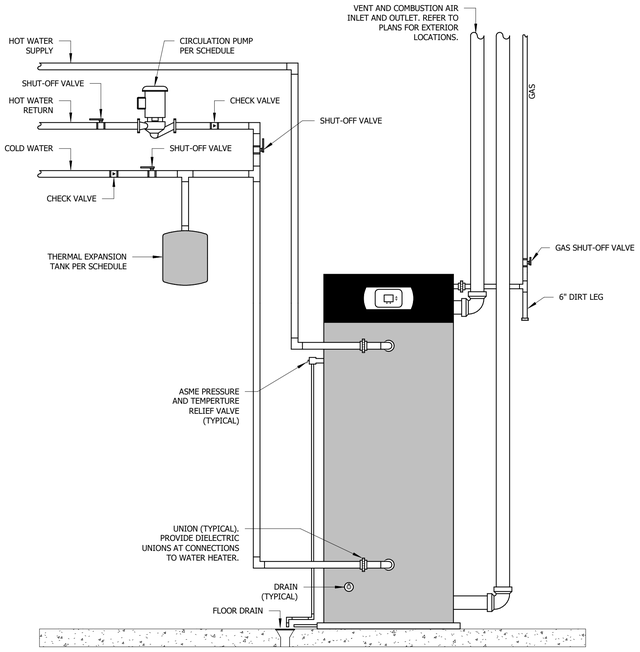

**NOTES:**

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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| 5 | SI #03 | 03-26-2020 |

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Drawing No.

# P300

PLUMBING SCHEDULES

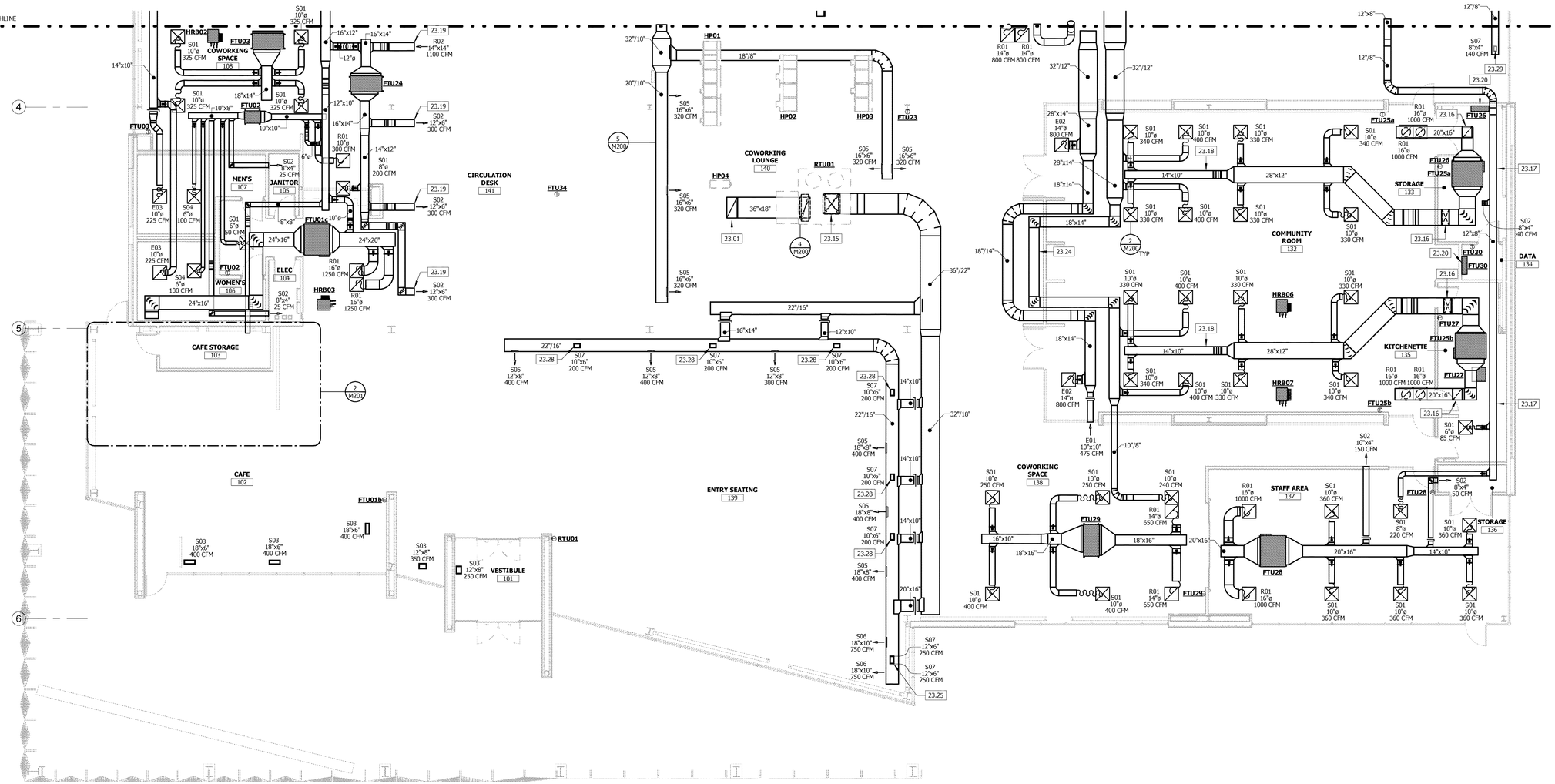
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## KEYNOTE LEGEND

| 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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Drawing No.
**M100**
MECHANICAL DUCTWORK PLAN - AREA A

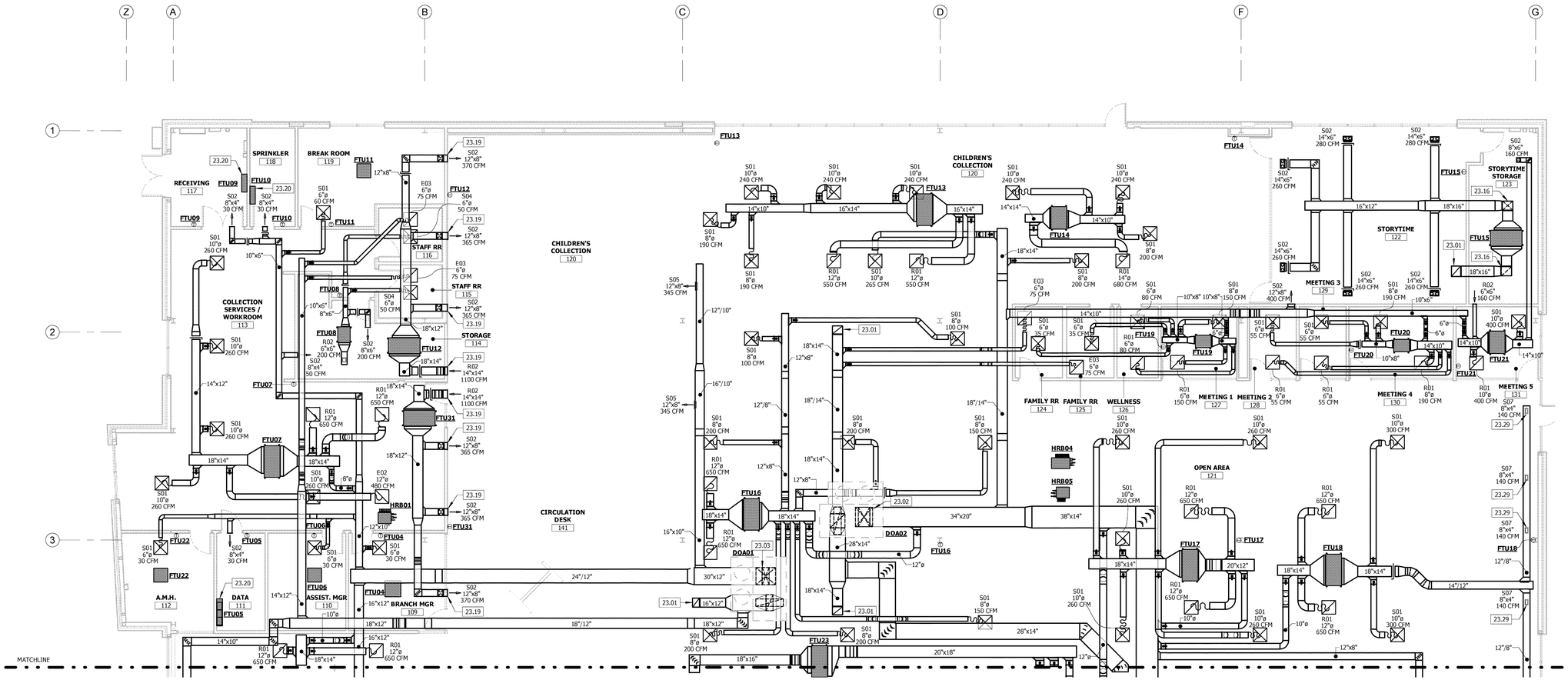
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## KEYNOTE LEGEND

| 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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Drawing No.
**M101**
**MECHANICAL DUCTWORK PLAN - AREA B**

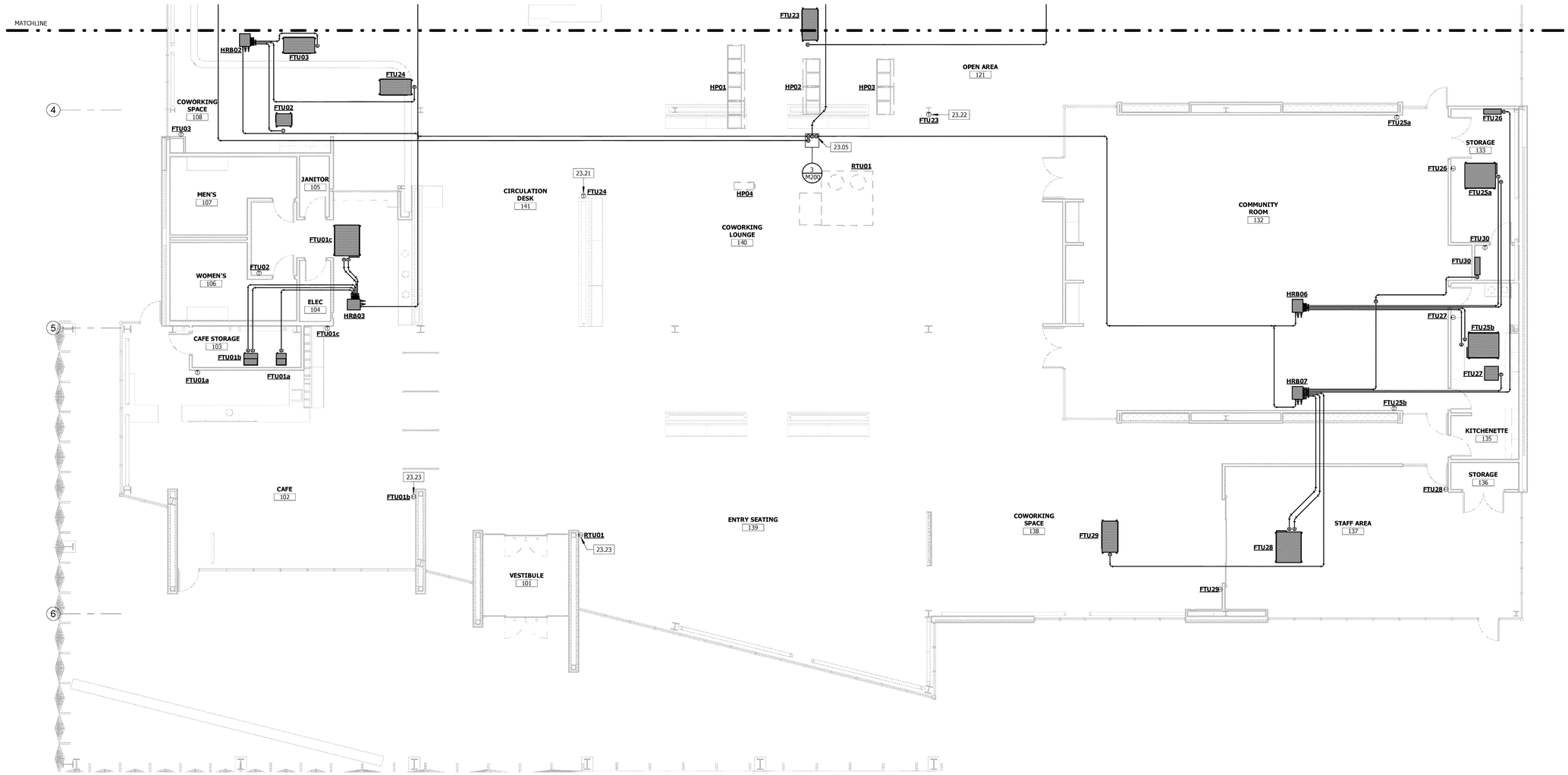
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## KEYNOTE LEGEND

| 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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**M102**
**MECHANICAL PIPING PLAN - AREA A**

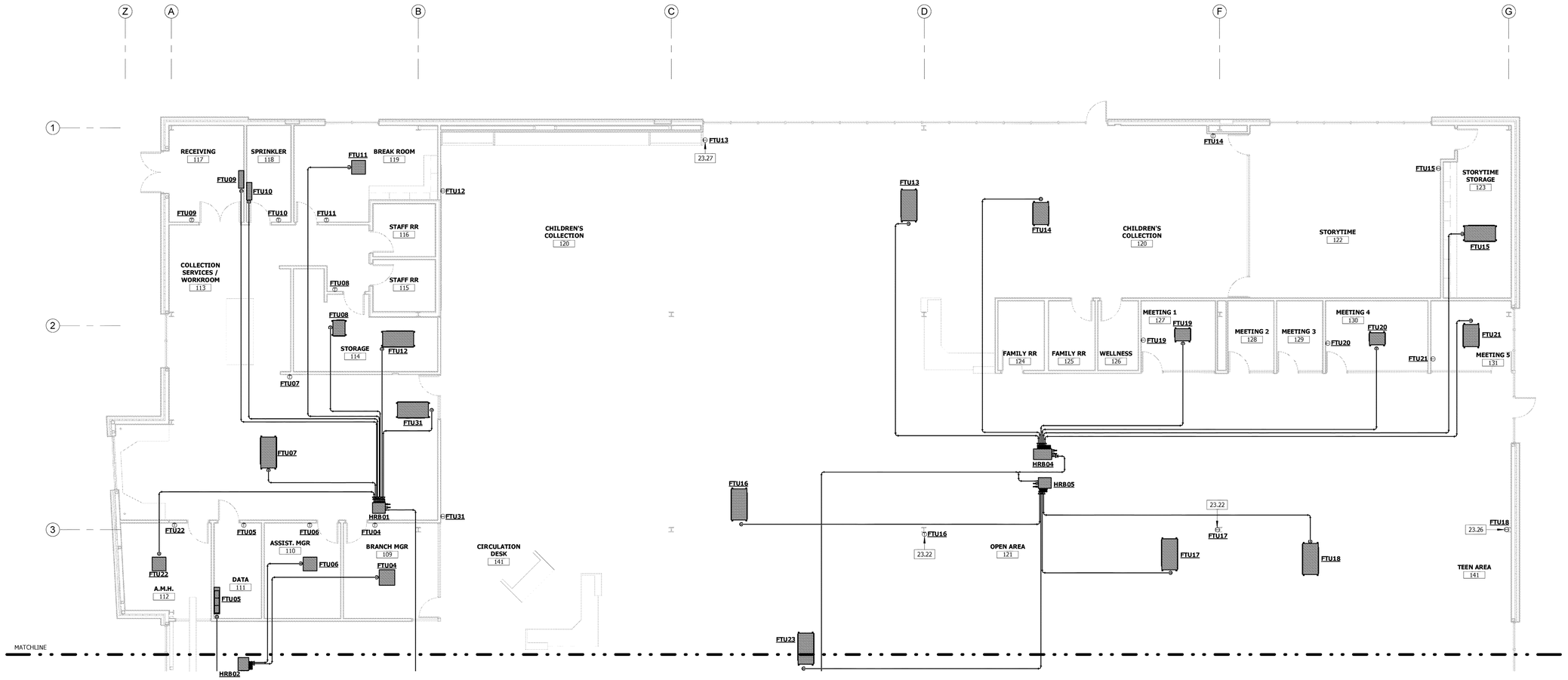
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## KEYNOTE LEGEND

| 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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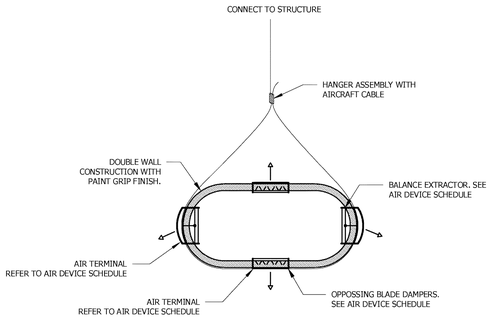
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MECHANICAL PIPING PLAN - AREA B

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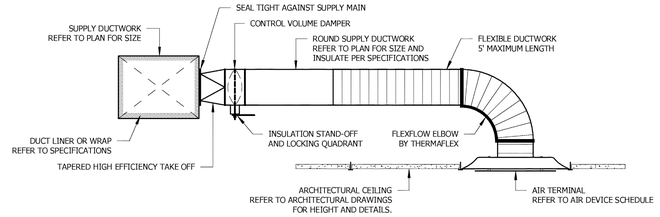
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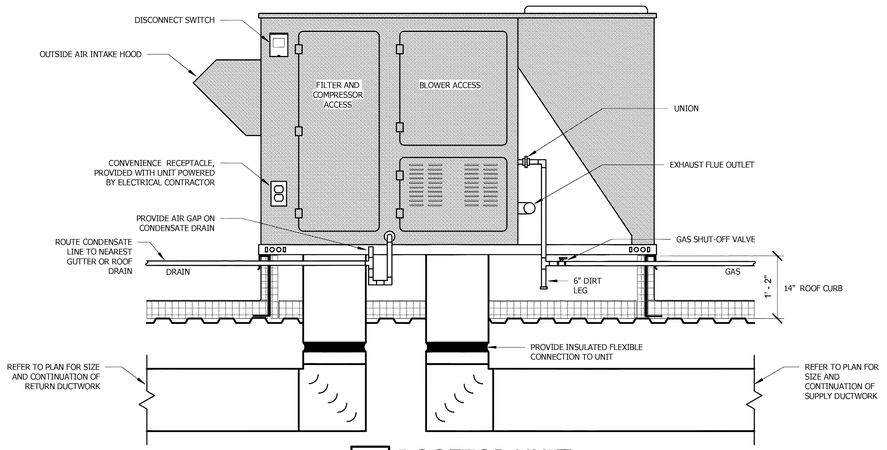

**NOTES:**

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.

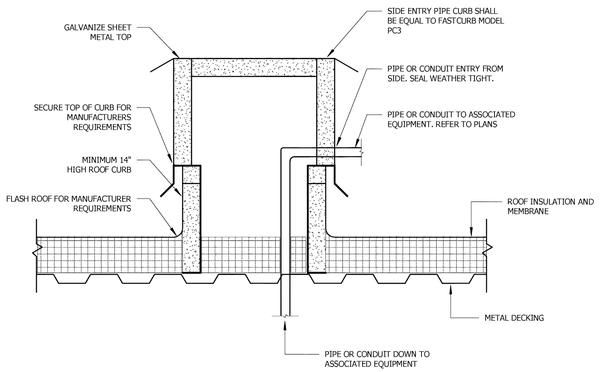
## 5 OVAL DUCT
NOT TO SCALE



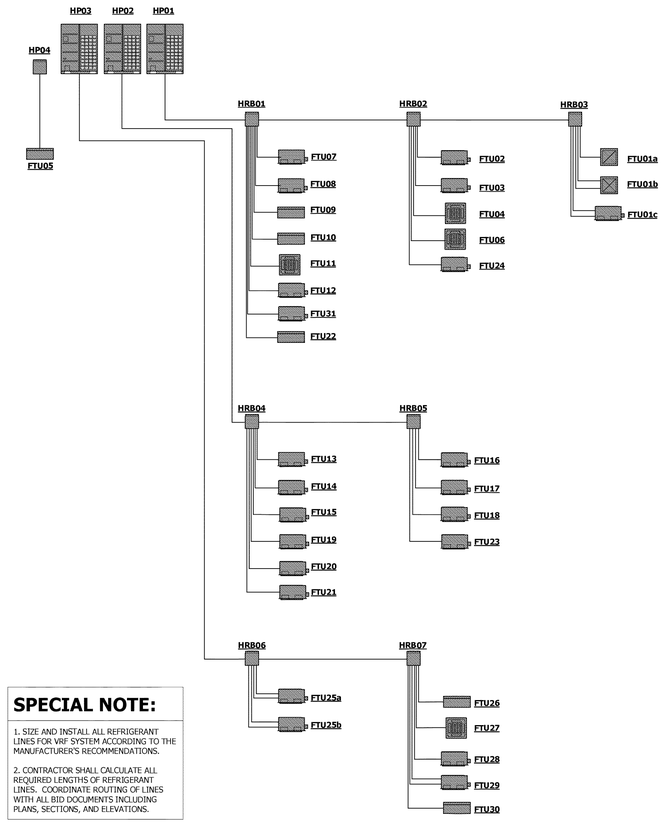

## 2 SUPPLY AIR DIFFUSER
NOT TO SCALE




## 4 ROOFTOP UNIT
NOT TO SCALE




## 3 PIPE CURB
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
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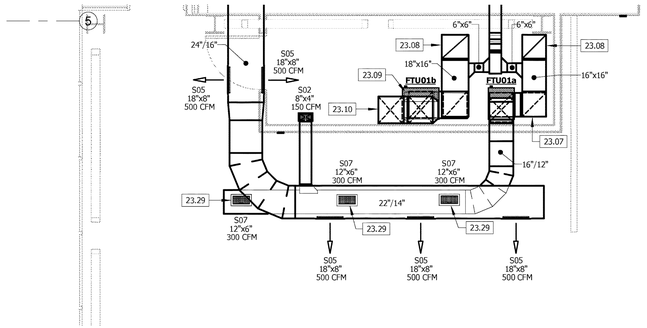
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Drawing No.
**M200**
**MECHANICAL DETAILS**

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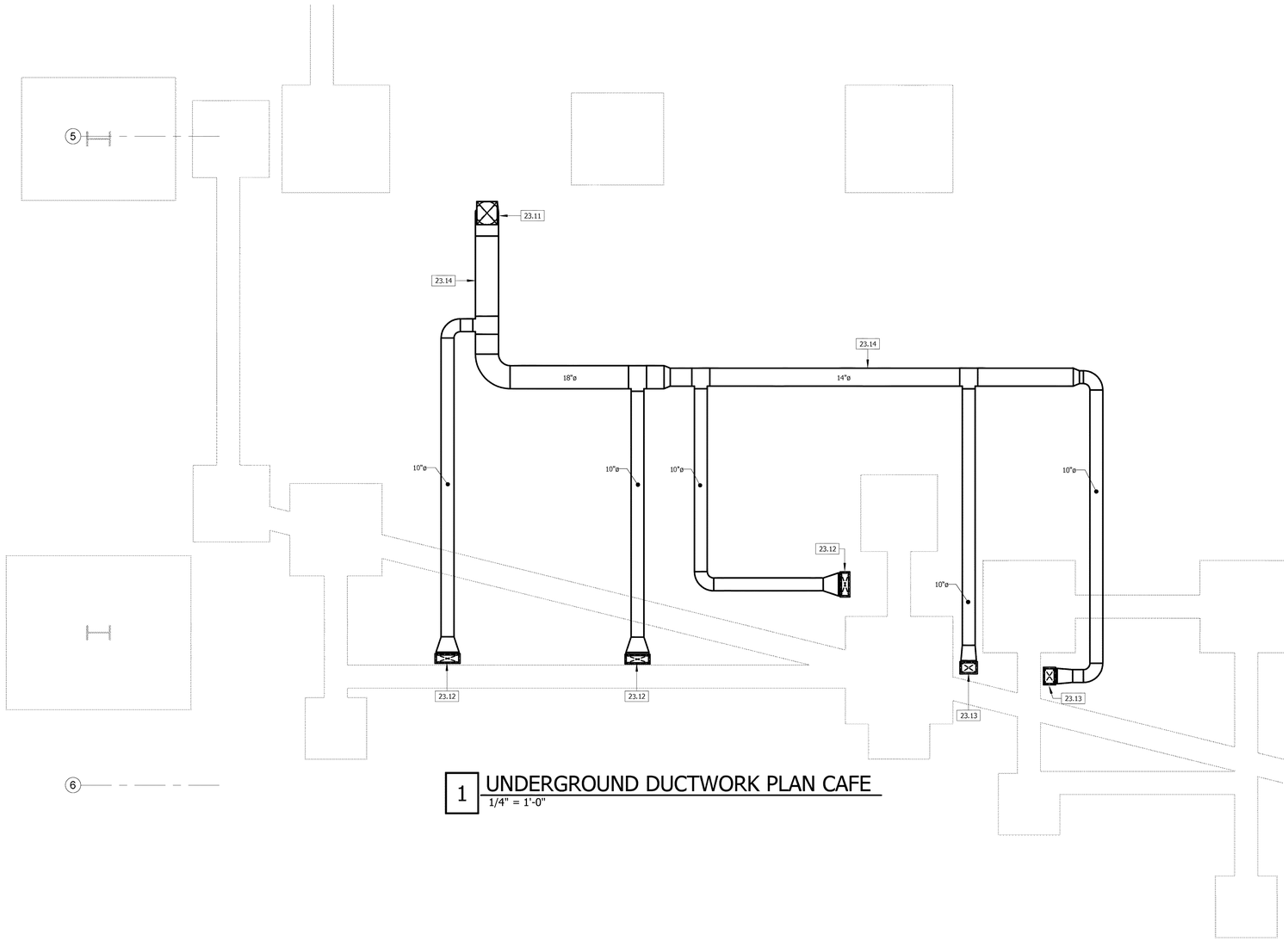
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11/05/2020




## 2 ENLARGED CAFE HVAC PLAN

1/4" = 1'-0"




## 1 UNDERGROUND DUCTWORK PLAN CAFE

1/4" = 1'-0"

## 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. |


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NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019

JACOB A NELSON, PE MO PE-2009018758


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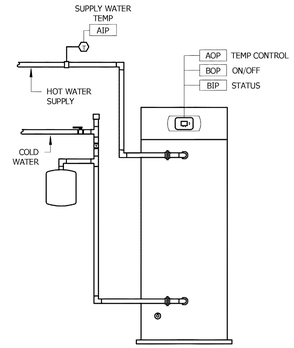
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Drawing No.
**M201**
**ENLARGED MECHANICAL PLANS**

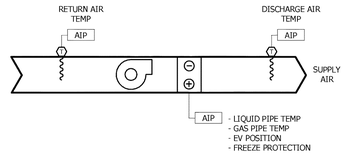
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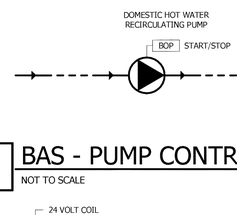



## 5 BAS - GAS WATER HEATER
NOT TO SCALE

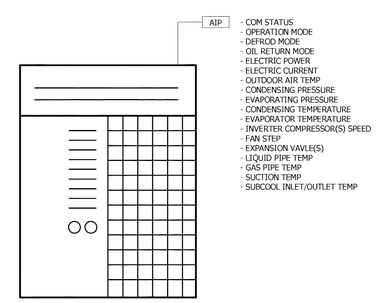



INTEGRATE POINTS TO BAS SYSTEM THROUGH DAIKIN ITM BACNET SERVER LICENSE. COORDINATE WITH VRF MANUFACTURER

## 8 BAS - VRF FAN COIL UNIT
NOT TO SCALE

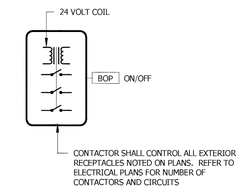



## 4 BAS - PUMP CONTROL
NOT TO SCALE

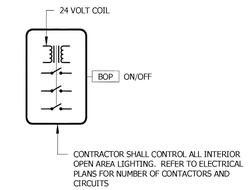



INTEGRATE POINTS TO BAS SYSTEM THROUGH DAIKIN ITM BACNET SERVER LICENSE. COORDINATE WITH VRF MANUFACTURER

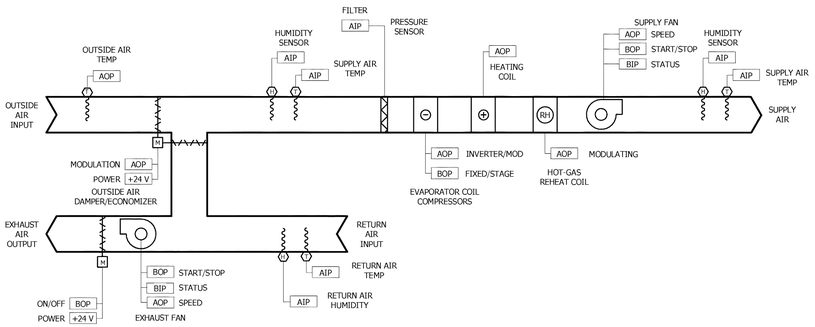
## 7 BAS - VRF HEAT PUMP
NOT TO SCALE



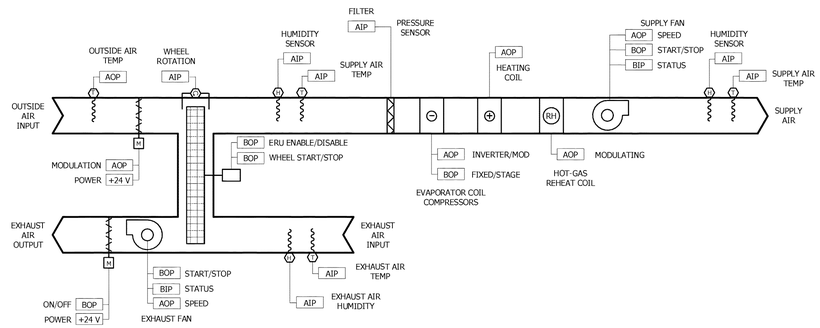

## 3 BAS - EXTERIOR RECEPTACLES
NOT TO SCALE



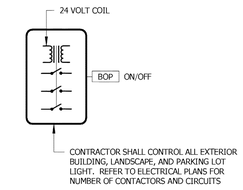

## 2 BAS - INTERIOR LIGHTING
NOT TO SCALE




## 9 BAS - ROOFTOP UNIT
NOT TO SCALE




## 6 BAS - DEDICATED OUTSIDE AIR UNIT
NOT TO SCALE




## 1 BAS - EXTERIOR LIGHTING
NOT TO SCALE


SAPP DESIGN ARCHITECTS
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Drawing No.

**M202**

**MECHANICAL CONTROL DRAWINGS**


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LEE'S SUMMIT, MISSOURI

11/05/2020

## 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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PROFESSIONAL ENGINEER
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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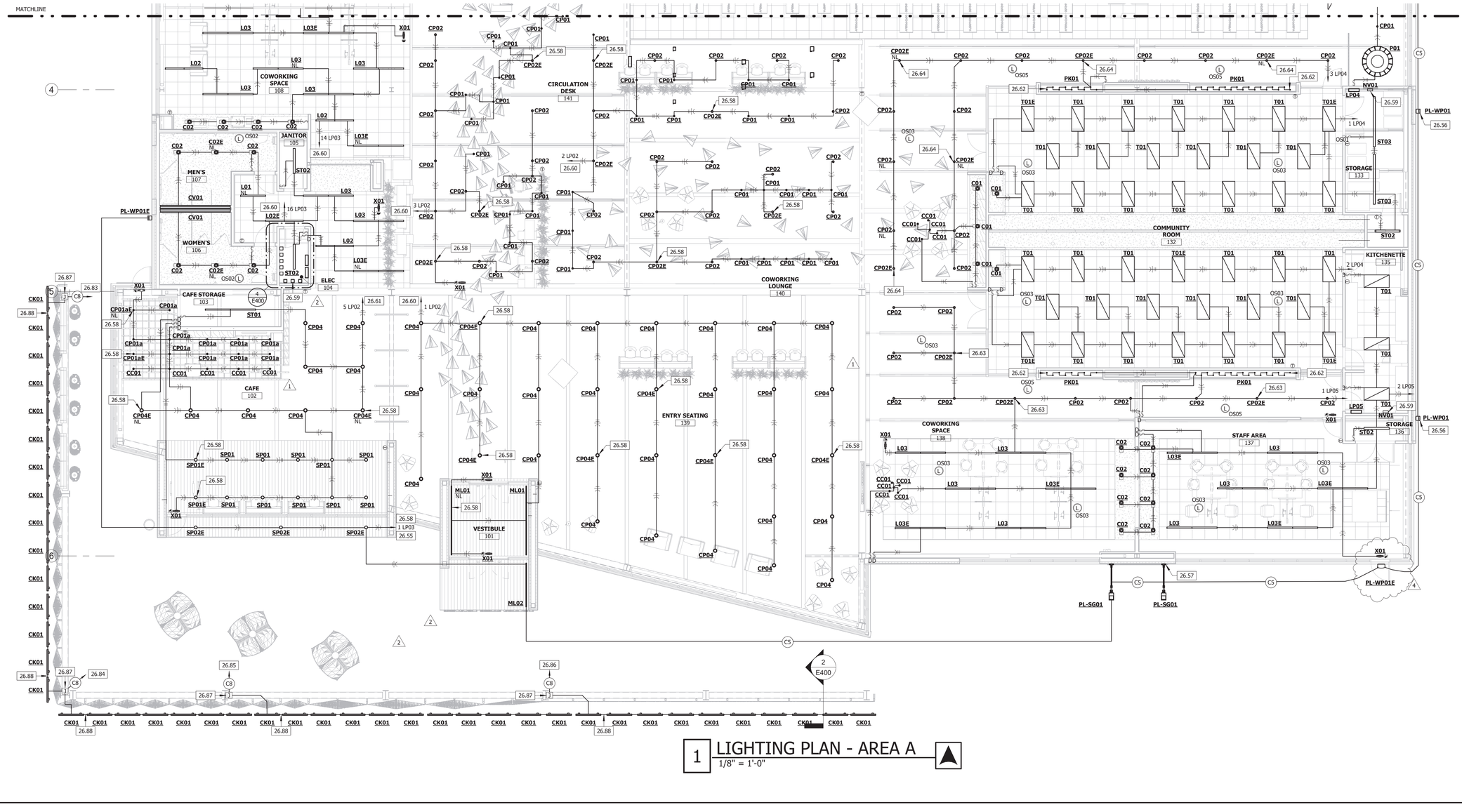
11/05/2020

## 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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| 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

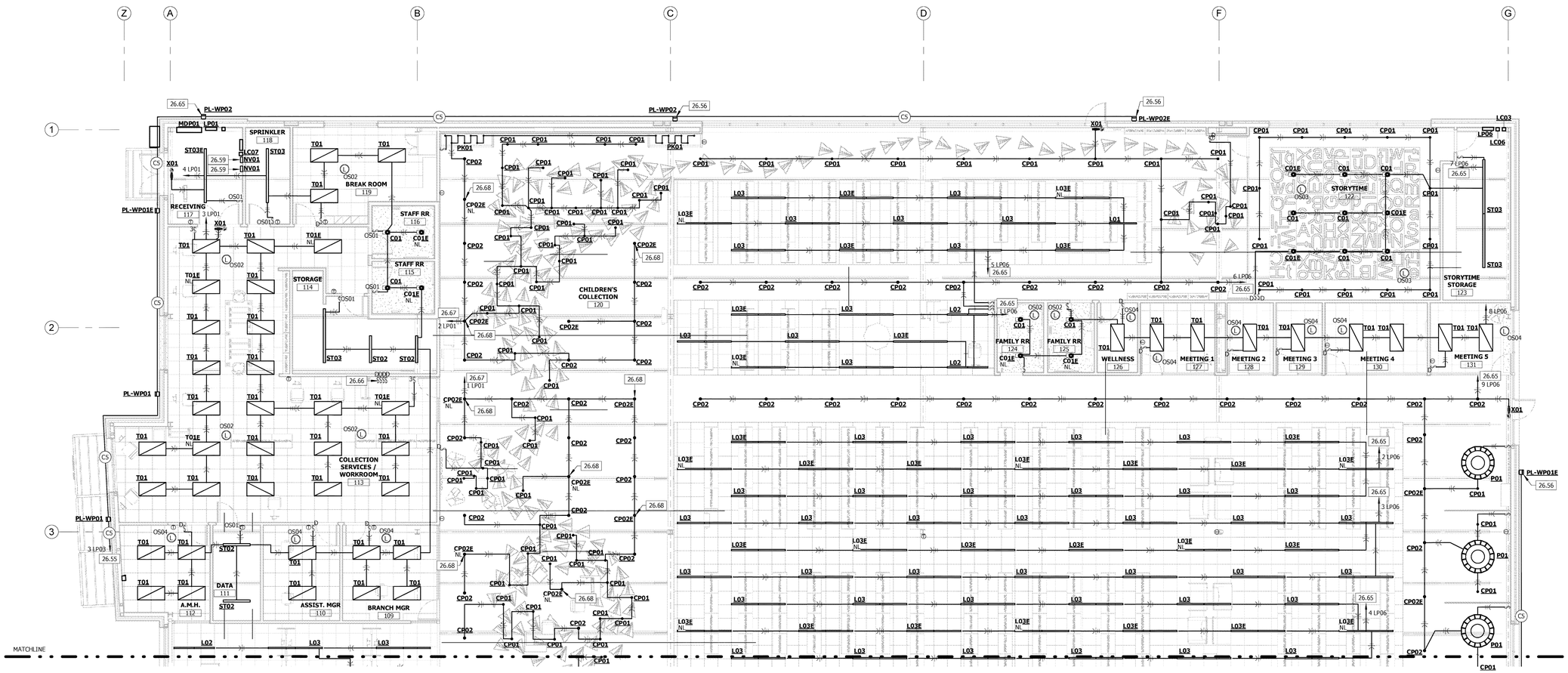
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## KEYNOTE LEGEND

| 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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Drawing No.
**E101**
**LIGHTING PLAN - AREA B**

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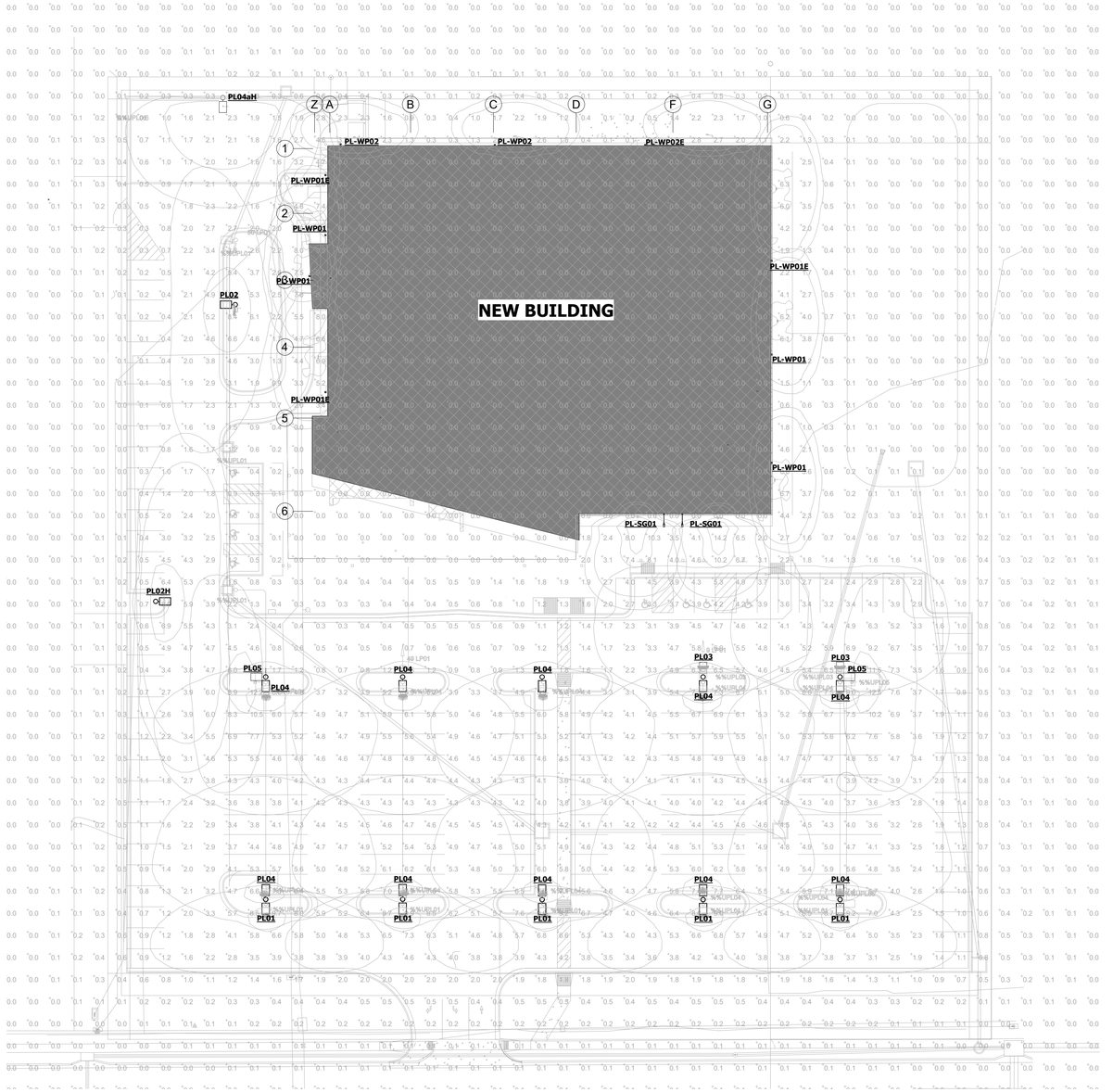
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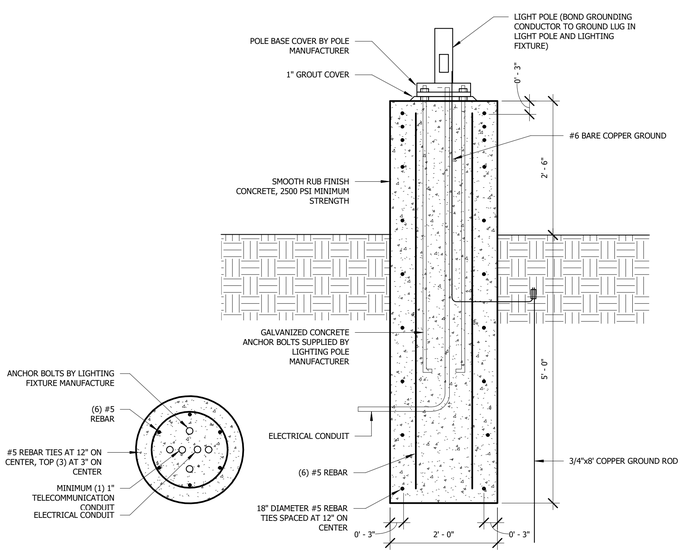
# PARKING LOT LIGHTING FIXTURE SCHEDULE

**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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Drawing No.
**E102**
**SITE PHOTOMETRIC PLAN**

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## TELECOM CONDUITS

| KEY VALUE | SIZE AND QUANTITY |
|---|---|

## CONDUIT AND CONDUCTORS

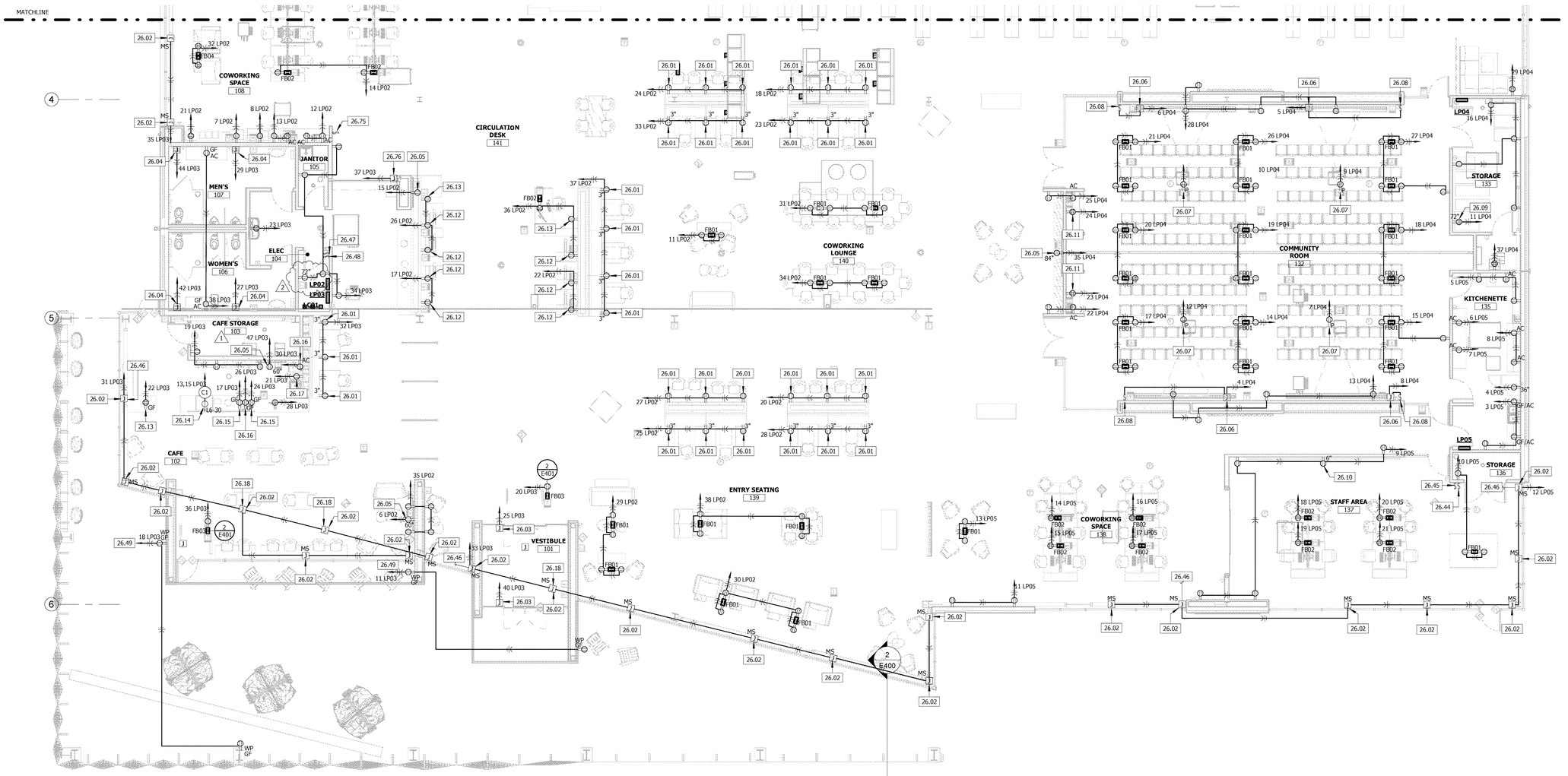
| KEY VALUE | SIZE AND QUANTITY |
|---|---|
| C1 | (2) #10 AND (1) #10 IN 0.75" CONDUIT. |

## 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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NUMBER PE-2009018758
PROFESSIONAL ENGINEER
12/23/2019
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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

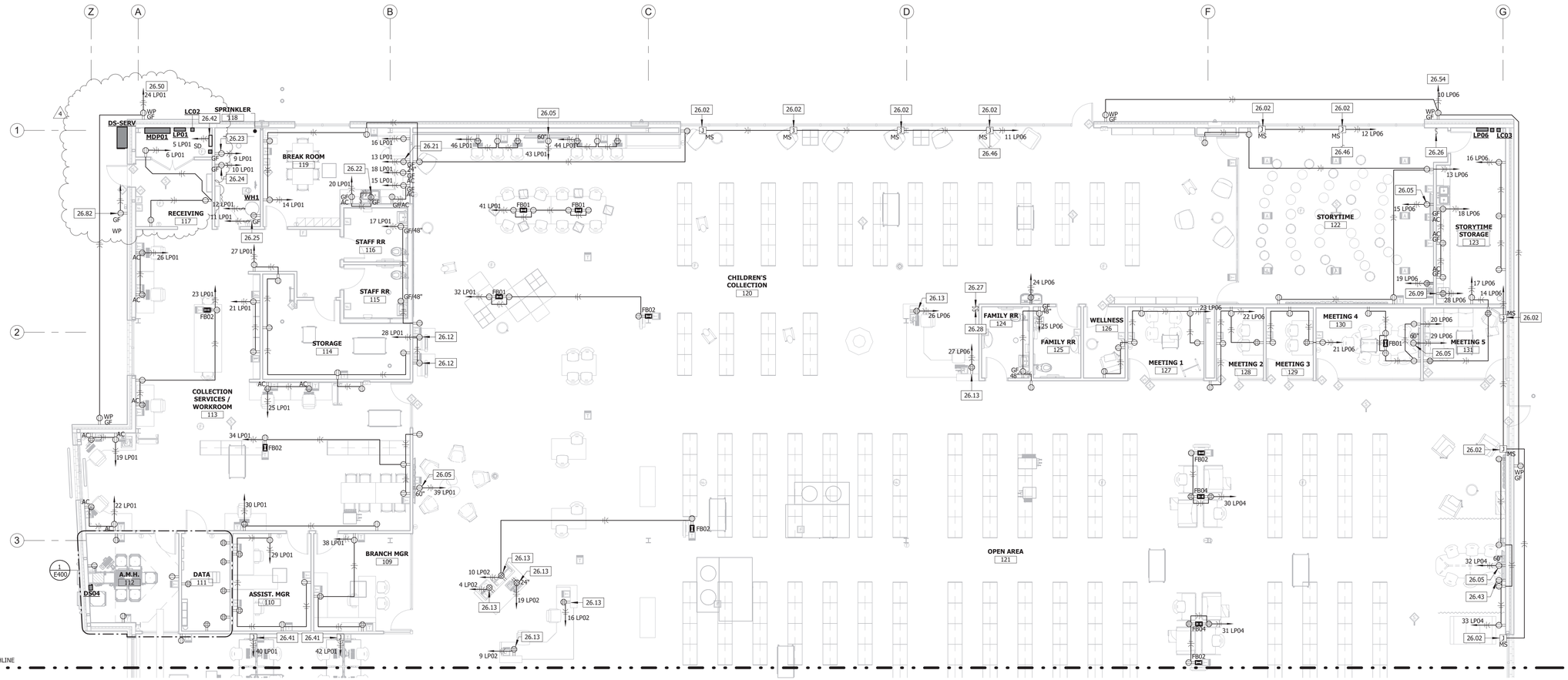
| KEY VALUE | SIZE AND QUANTITY |
|---|---|

## 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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|---|---|---|
| 4 | SI #02 | 03-13-2020 |

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| WP10 | 12/23/2019 | RA |

Drawing No.
**E201**
**POWER PLAN - AREA B**


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## TELECOM CONDUITS

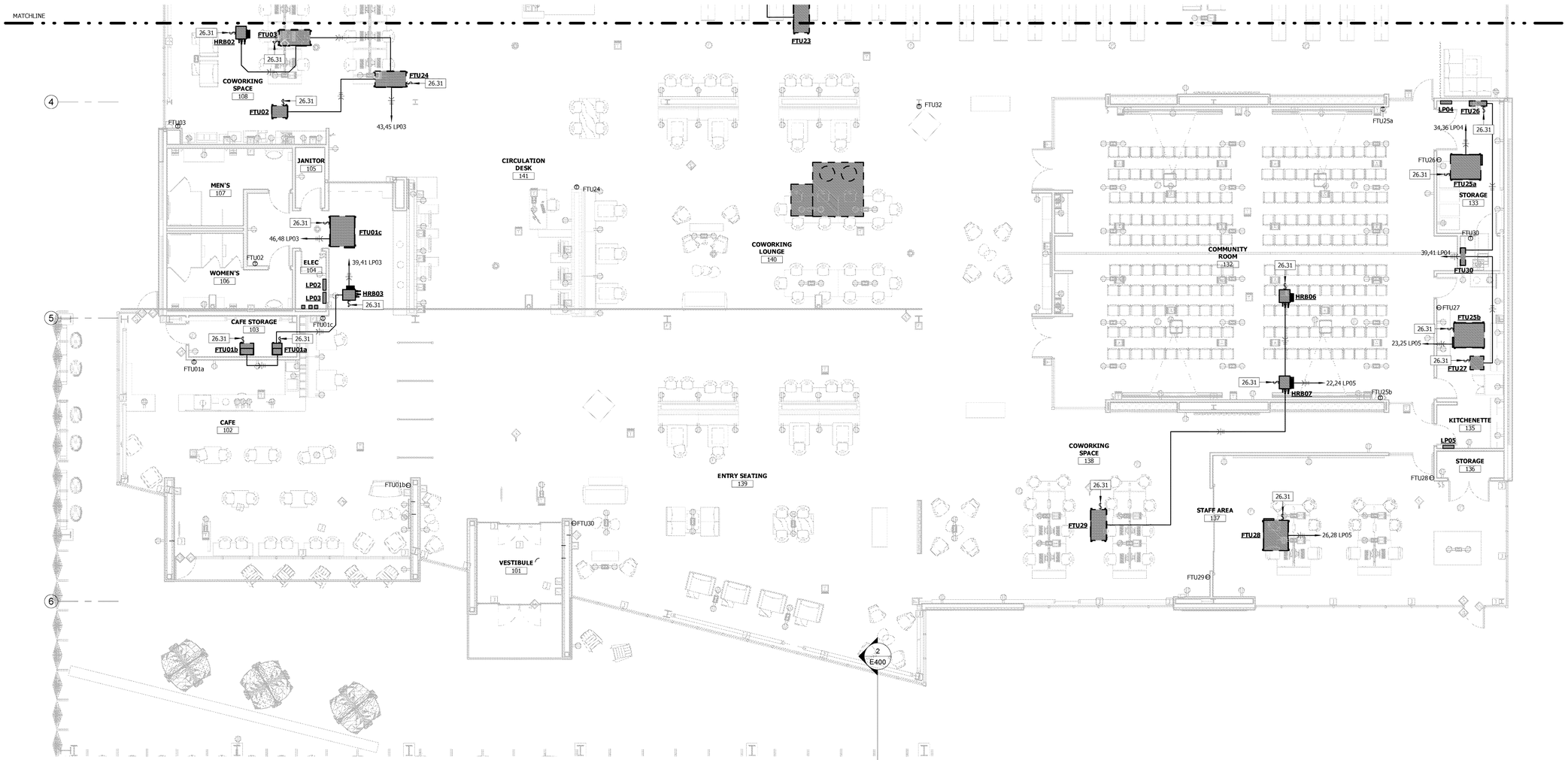
| KEY VALUE | SIZE AND QUANTITY |
|---|---|

## 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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Drawing No.
**E202**
HVAC POWER PLAN - AREA A


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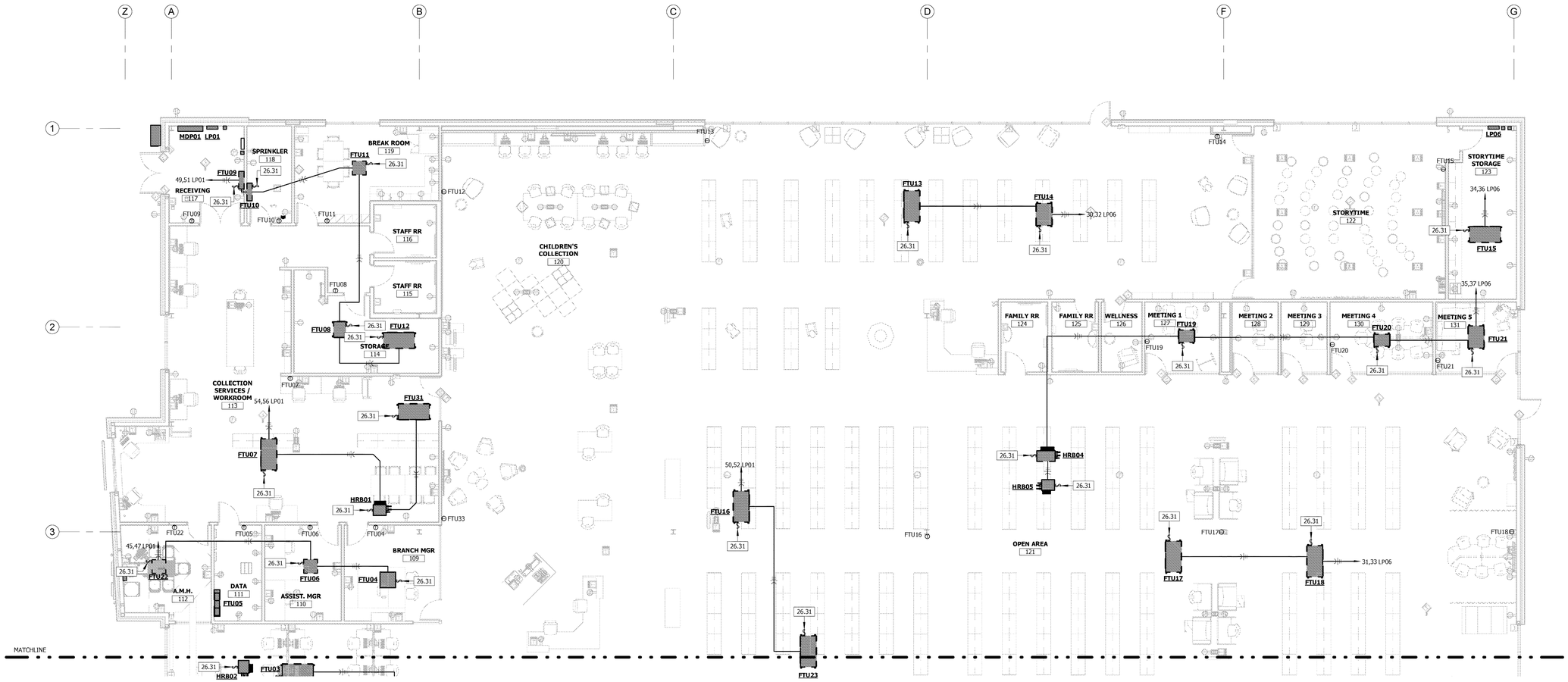
| KEY VALUE | SIZE AND QUANTITY |
|---|---|

## 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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| WP 10 | 12/23/2019 | Author |

Drawing No.
**E203**
**HVAC POWER PLAN - AREA B**


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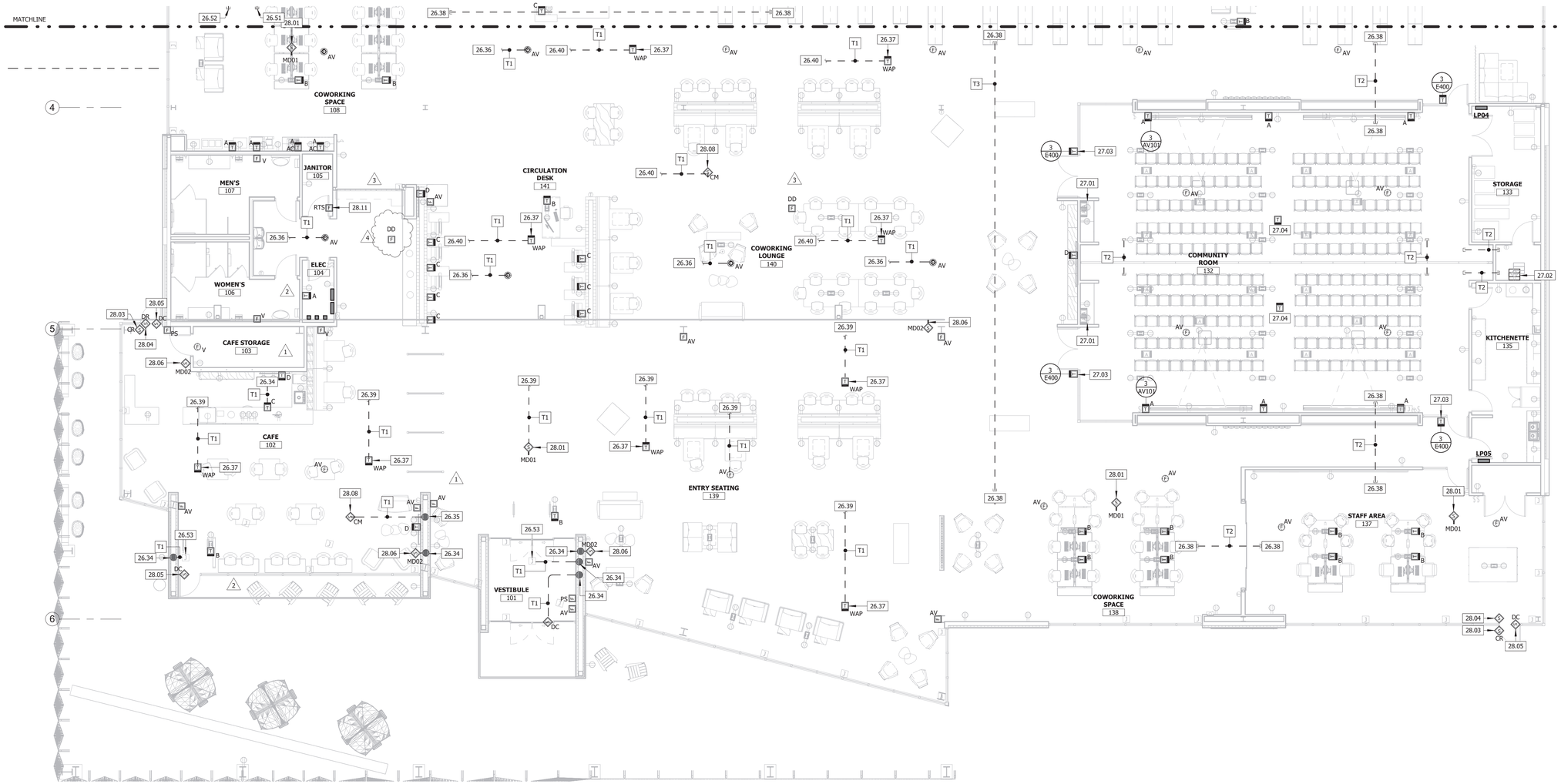
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## TELECOM CONDUITS

| 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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|---|---|---|
| 1 | Addendum #01 | 01-13-2020 |
| 2 | Addendum #02 | 01-20-2020 |
| 3 | SI #01 | 02-17-2020 |
| 4 | SI #02 | 03-13-2020 |

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| WP10 | 12/23/2019 | RA |

Drawing No.
# E300
SPECIALTY SYSTEMS PLAN - AREA A


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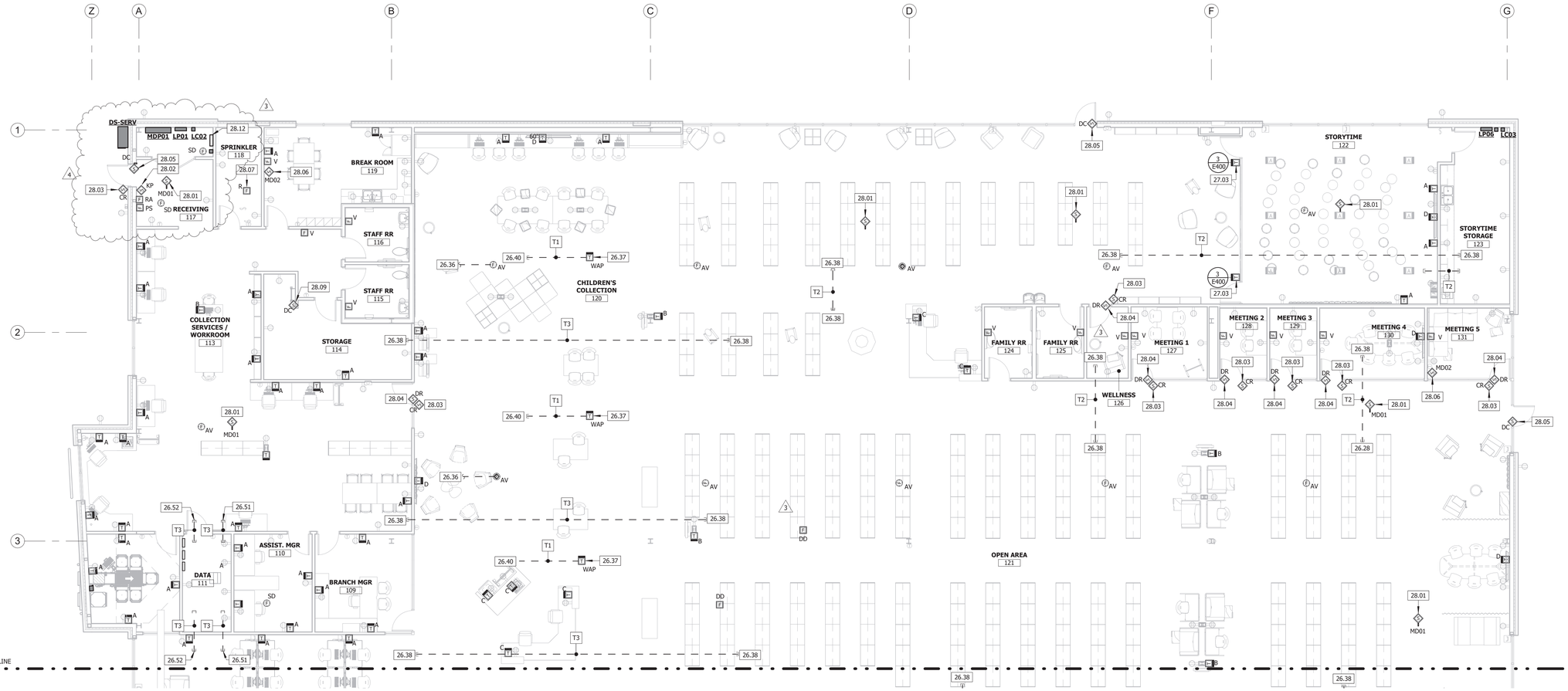
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## TELECOM CONDUITS

| 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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|---|---|---|
| 3 | SI #01 | 02-17-2020 |
| 4 | SI #02 | 03-13-2020 |

| Project No. | Date | Drawn |
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| WP10 | 12/23/2019 | RA |

Drawing No.
**E301**
SPECIALTY SYSTEMS PLAN - AREA B

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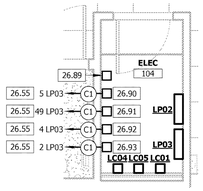
| KEY VALUE | SIZE AND QUANTITY |
|---|---|
| T3 | (3) 2" CONDUIT(S) WITH PULL STRING. |

## 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. |

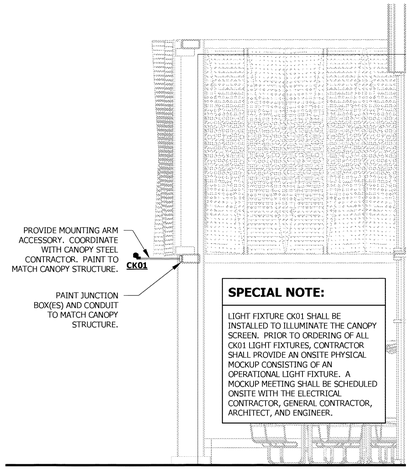



**SPECIAL NOTE:**

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"




**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"

## 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.

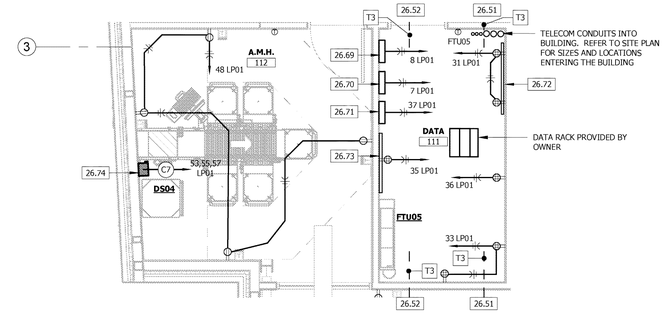
2. ROOM SCHEDULER MOUNT SHALL BE VIDAMOUNT FIXED VESA SLIM WALL MOUNT WITH PERMANENT ADHESIVE KIT FOR GLASS MOUNTING APPLICATIONS.

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




## 1 ENLARGED AMH AND DATA ROOM

1/4" = 1'-0"


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|---|---|---|
| 2 | Addendum #02 | 01-20-2020 |

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| WP10 | 12/23/2019 | RA |

Drawing No.

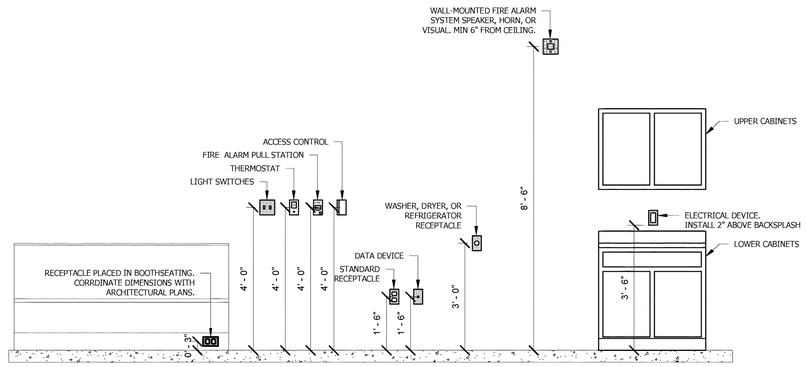
**E400**

**ELECTRICAL DETAILS**

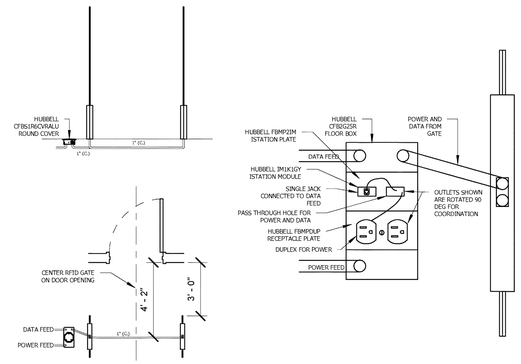
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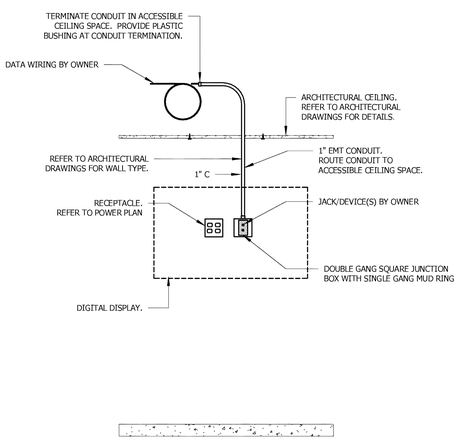
11/05/2020




3 TYPICAL ELECTRICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE




2 RFID GATE FLOOR BOX
NOT TO SCALE

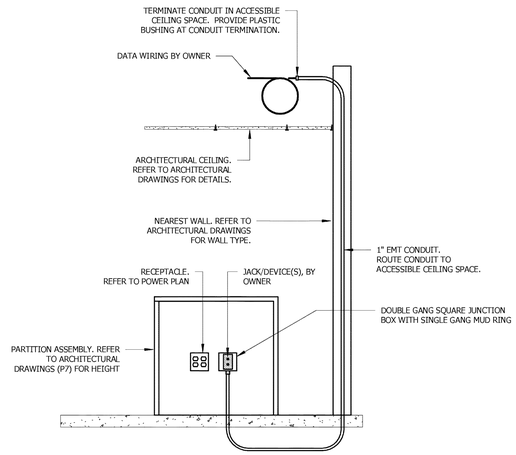



**NOTES:**

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

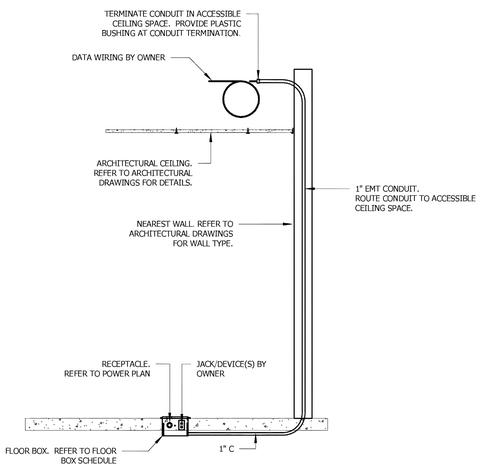



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6 TELECOM "C" OUTLET
NOT TO SCALE

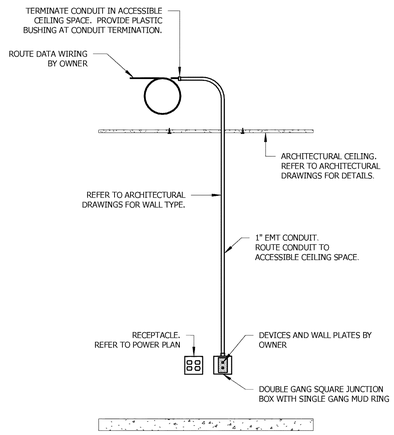



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4 TELECOM "B" OUTLET
NOT TO SCALE




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1 TELECOM "A" OUTLET
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PROFESSIONAL ENGINEER
12/23/2019
JACOB A NELSON, PE MO PE-2009018758


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Drawing No.
**E401**
**ELECTRICAL DETAILS**


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11/05/2020

**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**

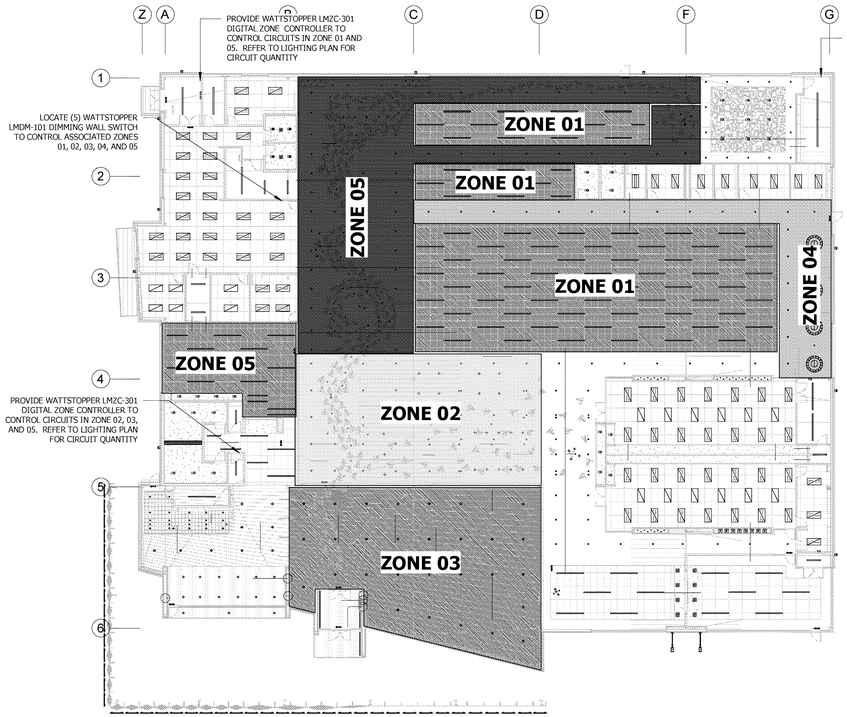
PROVIDE ALL REQUIRED CABLING BETWEEN SWITCHES, CIRCUITS, AND CONTROLLERS. CABLING SHALL BE CATEGORY 5E/6 CABLE AND PLENUM RATED.
MANUFACTURER'S REP VERIFY CONTROL LENGTHS AND PROVIDE POWER EXTENDERS AS REQUIRED.

**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.

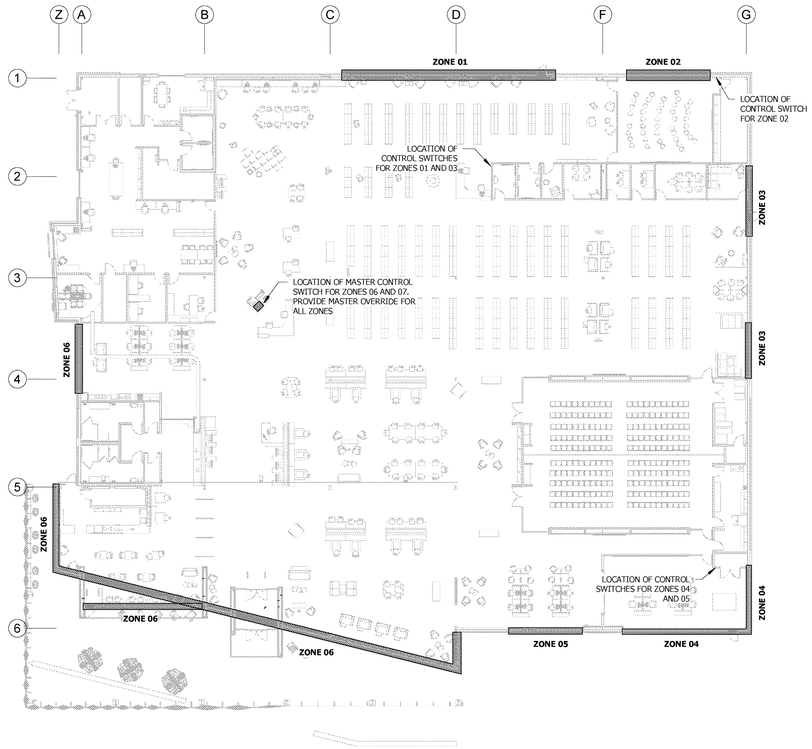
WIRE LIGHTING CIRCUITS THROUGH WATTSTOPPER LMRC-21X 1-10-VOLT DIMMIN ROOM CONTROLLERS.



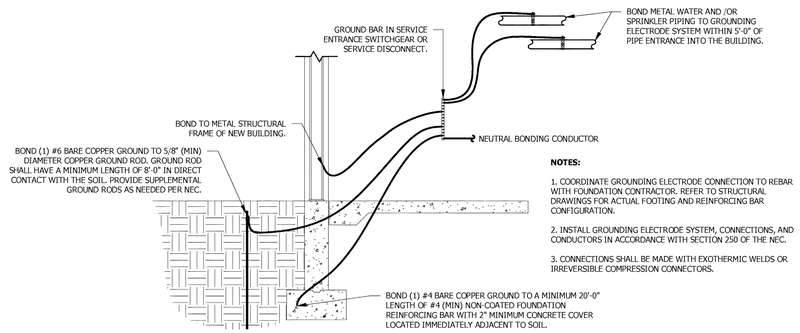

## 4 LIGHTING CONTROL DETAIL
NOT TO SCALE

**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



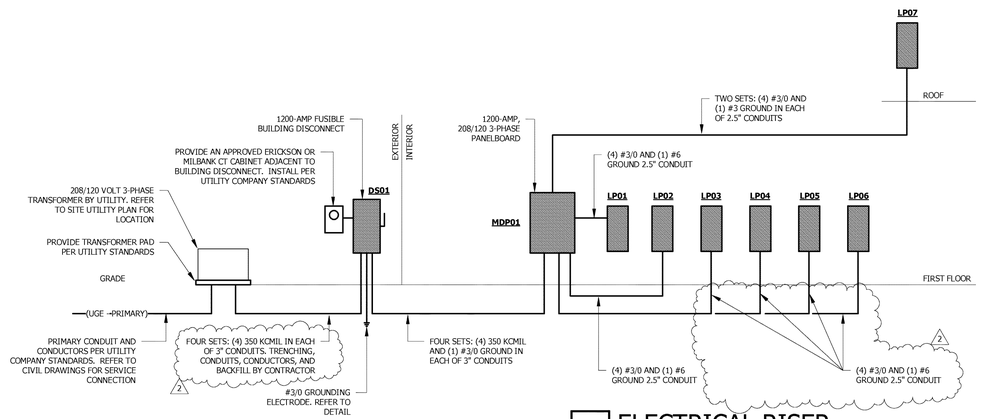

**NOTES:**

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




## 1 ELECTRICAL RISER
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

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| 1 | Addendum #01 | 01-13-2020 |
| 2 | Addendum #02 | 01-20-2020 |

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Drawing No.
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**ELECTRICAL DETAILS**

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11/05/2020

# 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 | | | 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. |
| 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 |
| CC01 | CDS LIGHTING | GATES-P-BLANK-USV | DIM | BY ARCH | UNV | LED | 3500 | 12 | 3,11 | 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 |
| 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 |
| MV01 | EOTA | 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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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
11/05/2020

## 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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Missouri State Certificate of Authority #000607

helix.
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Kansas City, MO 64108 816.300.0300

Company Name
Missouri State Certificate of Authority #


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PROFESSIONAL ENGINEER
12/23/2019

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True Engineering Group LLC
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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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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

11/05/2020

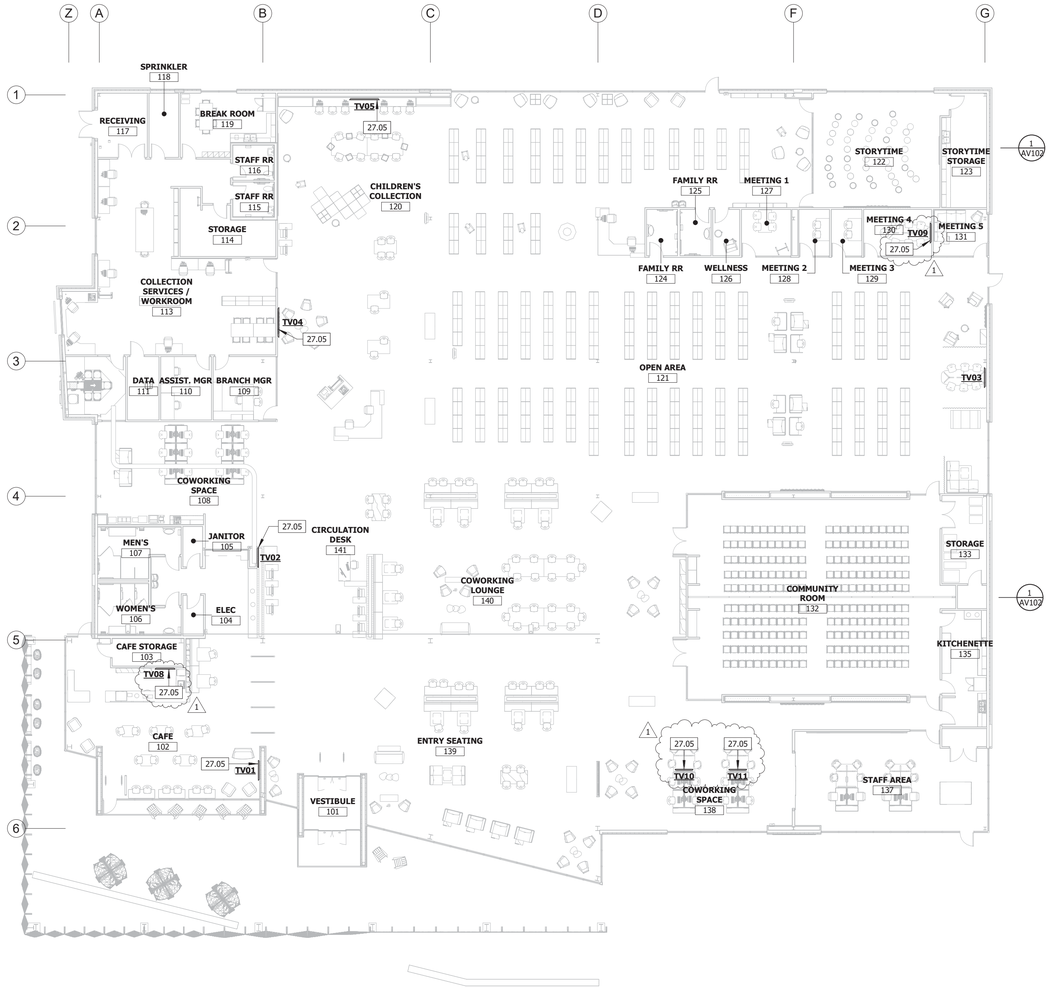
## KEYNOTE LEGEND

| KEY VALUE | KEYNOTE TEXT |
|---|---|
| 27.05 | DIGITAL DISPLAY TV. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT. REFER TO DIGITIAL 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 | 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 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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| 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

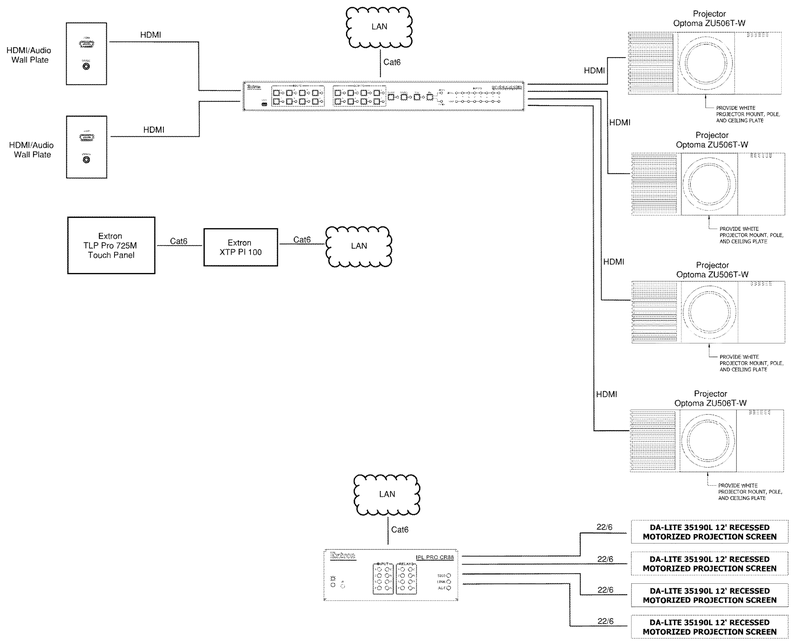

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
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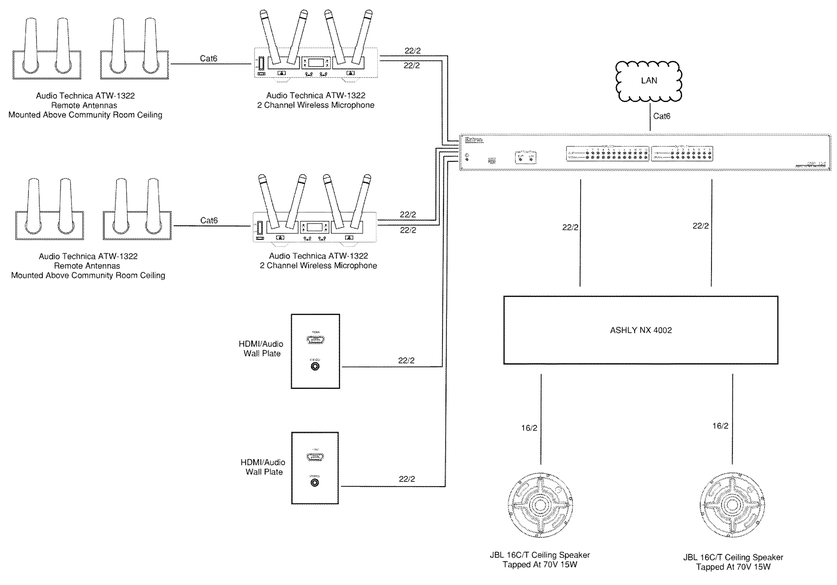
11/05/2020

## KEYNOTE LEGEND

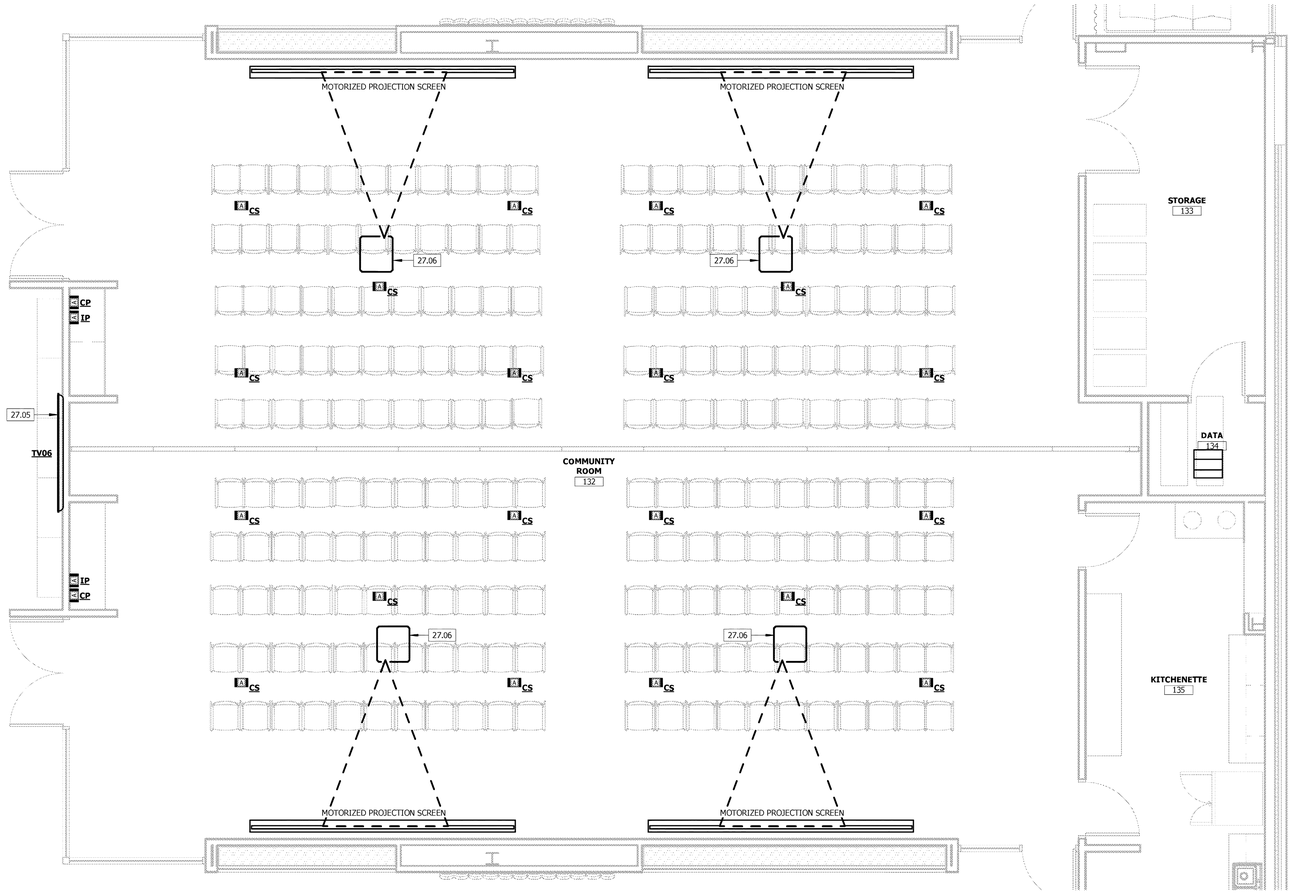
| KEY VALUE | KEYNOTE TEXT |
|---|---|
| 27.05 | DIGITAL DISPLAY TV. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT. REFER TO DIGITIAL DISPLAY SCHEDULE. |
| 27.06 | CEILING PROJECTOR. REFER TO ASSOICATED A/V RISER. |




## 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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| Project No. | Date | Drawn |
|---|---|---|
| WP10 | 12/23/2019 | AH |

Drawing No.

**AV101**
**AUDIO/VIDEO PLAN - COMMUNITY ROOM**

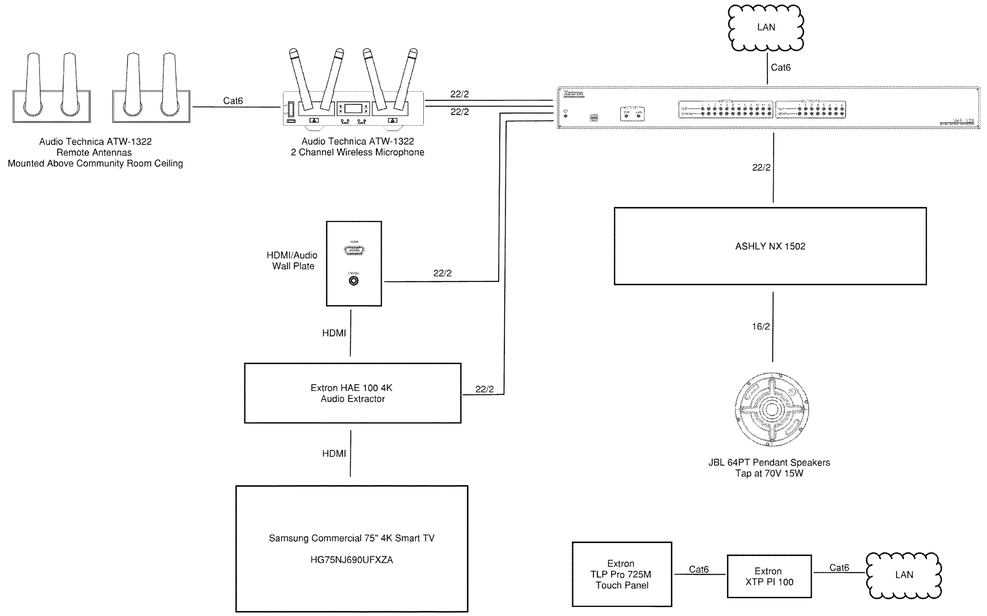

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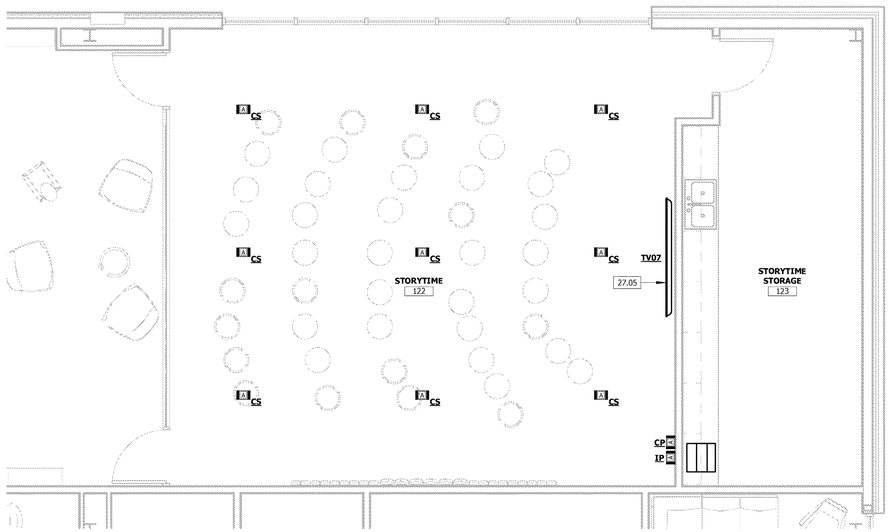
11/05/2020

## 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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Drawing No.
# AV102
AUDIO/VIDEO PLAN - STORY TIME

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