3/5/2025 8:32:34 AM

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

2134 SECOND STREET ~ PLEASANTON, TEXAS

ATASCOSA COUNTY COMMISSIONER'S COURT

HONORABLE **WELDON CUDE**, COUNTY JUDGE
HONORABLE **MARK GILLESPIE**, PRECINCT 1 COMMISSIONER
HONORABLE **MARK BOWEN**, PRECINCT 2 COMMISSIONER
HONORABLE **GEORGE "BUTCH" PAWELEK**, PRECINCT 3 COMMISSIONER
HONORABLE **KENNARD "BUBBA" RILEY**, PRECINCT 4 COMMISSIONER

CONSTRUCTION DOCUMENTS
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ARCHITECT:
DRG ARCHITECTS
13300 OLD BLANCO ROAD #175
SAN ANTONIO, TEXAS 78216
MAIN: 210-349-7950
ATTN: **WAYNE GONDECK, AIA**
EMAIL: WAYNEG@DRGARCHITECTS.COM
CELL: 210-219-4612

PROGRAM ARCHITECT:
MWL ARCHITECTS AND PLANNERS
11798 N. LAKERIDGE PARKWAY
ASHLAND, VA 23005
MAIN:
ATTN: **KEVIN GILMOUR**
EMAIL: GILMOUR@MWLARCHITECTS.COM
CELL: 804-658-9673

CIVIL ENGINEER:
RAK ENGINEERING
515 E. OAKLAWN ROAD
PLEASANTON, TEXAS 78064
MAIN: 830-281-4060
ATTN: **WALT RAKOWITZ, PE**
EMAIL: INFO@RAK-ENG.COM
CELL:

STRUCTURAL ENGINEER:
INTELLIGENT ENGINEERING SERVICES
1045 CENTRAL PARKWAY NORTH, SUITE 200
SAN ANTONIO, TEXAS 78232
MAIN: 210-349-9098
ATTN: **JOE HUIZAR, PE**
EMAIL: JHUIZAR@IE-SERVICES.COM
CELL:

MEP ENGINEER:
JOHNSTON, LLC
2603 AUGUSTA, SUITE 1600
HOUSTON, TEXAS 77057
MAIN: 713-244-8300
ATTN: **RICK QUINTANILLA, PE**
EMAIL: RICK.QUINTANILLA@JOHNSTONLLC.COM
CELL: 713-965-7080

TECHNOLOGY:
MEDIA DESIGN GROUP
ADDRESS
MAIN: 817-295-9903
ATTN: **RICK ROBINSON**
EMAIL: RICK@MDG-AV.COM
CELL:

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250306

COVER

G0.00

DRG REFERENCE

95% CONSTRUCTION DOCUMENTS PACKAGE

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ABBREVIATIONS

A	
ACOUST.	ACOUSTICAL
ADA	AMERICAN WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
∠	ANGLE
APPX.	APPROXIMATE
ASB.	ASBESTOS
A/C	AIR CONDITIONER
B	
BD.	BOARD
BM.	BENCHMARK
BLK.	BLOCK
C	
CLG.	CEILING
CEM.	CEMENT
CTR.	CENTER
C. TO C.	CENTER TO CENTER
C.L. OR ℄	CENTER LINE
C.T.	CERAMIC TILE
[	CHANNEL
C.R.	COLD ROLLED
CONC.	CONCRETE
C.	COURSE
C.F.M.	CUBIC FEET/MINUTE
CONT.	CONTINUOUS
C.M.U.	CONCRETE MASONRY UNIT
C.J.	CONTROL JOINT
D	
DIA.	DIAMETER
DIM.	DIMENSION
DBL.	DOUBLE
DN.	DOWN
DS.	DOWN SPOUT
DR.	DOOR
D.F.	DRINKING FOUNTAIN
DMP.	DAMP PROOFING
DEC	DETENTION EQUIPMENT CONTRACTOR
E	
E	EAST
EL.	ELEVATION
EQ.	EQUAL
EXH.	EXHAUST
EXP.	EXPANSION
EXP. JT.	EXPANSION JOINT
EXT.	EXTERIOR
E.D.F.	ELECTRIC DRINKING FOUNTAIN
E.W.C.	ELECTRIC WATER COOLER
EXST. OR EX.	EXISTING
ELEC.	ELECTRICAL
E.F.I.S.	EXTERIOR FINISH INSULATING SYSTEM
F	
FIN.	FINISH
F.F.	FINISH FLOOR
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.	FIRE HOSE
F.H.C.	FIRE HOSE CABINET
F.D.	FLOOR DRAIN
FL. TO FL.	FLOOR TO FLOOR
F.L.	FLOW LINE
F.O.S.	FACE OF STUD
F.G.B.	FACE OF GRADE BEAM
F.S.	FLOOR SINK
G	
GA.	GAUGE
GALV.	GALVANIZED
G.S.T.	GLAZED STRUCTURAL TILE
GYP.	GYPSUM
G.I.	GALVANIZED IRON
H	
H.B.	HOSE BIB
HDW.	HARDWARE
HD.	HEAD
HGT. OR HT.	HEIGHT
H.P.	HIGH POINT
HR.	HOUR
H.R.	HANDCUFF RING
HDCP	HANDICAPPED

I,J,K,L	
I.D.	INSIDE DIAMETER
INT.	INTERIOR
JT.	JOINT
LAV.	LAVATORY
L.P.	LOW POINT
M	
MANF.	MANUFACTURER
MECH.	MECHANICAL
MEMB.	MEMBRANE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
M.P.	MID POINT
N	
N	NORTH
N.T.S.	NOT TO SCALE
NO. OR #	NUMBER
N.I.C.	NOT IN CONTRACT
O	
OPP.	OPPOSITE
OZ.	OUNCE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.A.	OVERALL
O.H.	OVER HEAD
P,Q	
PR.	PAIR
PLAS.	PLASTER
PL. LAM.	PLASTIC LAMINATE
℄	PLATE OR PROPERTY LINE
d	PENNY
LB. OR #	POUND
PLMG.	PLUMBING
R	
R. OR RAD.	RADIUS
RECP.	RECEPTACLE OR REINFORCE
RE: OR REF.	REFER TO
RES.	RESILIENT
REQD. OR RQD.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
S	
S	SOUTH
S.M.	SHEET METAL
STRUC.	STRUCTURE OR STRUCTURAL
ST. OR STL.	STEEL
SCHD.	SCHEDULE
SECT.	SECTION
SH.	SHOWER
SHT.	SHEET
SQ.	SQUARE
STD.	STANDARD
SHTHG.	SHEATHING
T	
T.B.	TACK BOARD
TEL.	TELEPHONE
T.V.	TELEVISION
T.C.	TOP OF CURB
T.W.	TOP OF WALL
THK.	THICK
T&G	TOUNGE AND GROOVE
TYP.	TYPICAL
T.O.S.	TOP OF STEEL
T.S.	TOP OF SLAB
T.O.D.	TOP OF DECK
T.D.	TRENCH DRAIN
U,V	
U.L.	UNDERWRITER'S LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W,X,Y,Z	
W	WEST
WT.	WEIGHT
WDW.	WINDOW
W/	WITH
W/O	WITHOUT
WD.	WOOD
W.W.M.	WELDED WIRE MESH
W.P.	WATER PROOFING
W.C.	WATER CLOSET

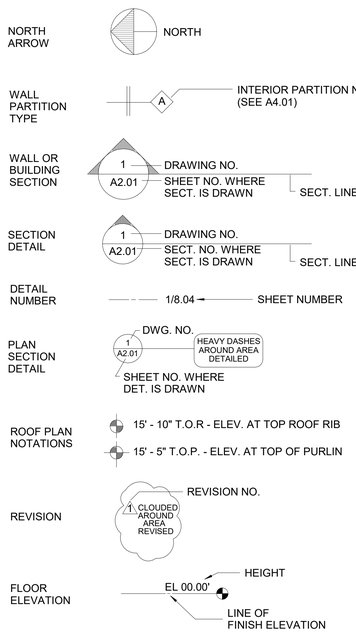
GENERAL NOTES

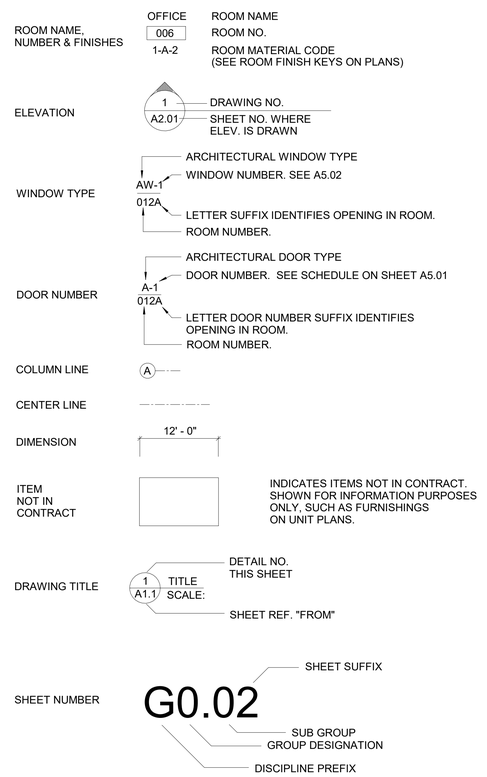
THESE NOTES REFER TO ARCHITECTURAL DRAWINGS ONLY

1. DRAWING NOTATION: MATERIALS IDENTIFICATIONS APPEAR AS ONE OF THE FOLLOWING:
   - A. MATERIAL KEYNOTE 'WHICH IS REFERENCED BACK TO THE SPECIFICATIONS BY DIVISION.
   - B. REFERENCE NOTES
   - C. FULL NOTES DIRECTLY ON THE DRAWING

   WHERE USED, KEYNOTES HAVE BEEN INCLUDED AS AN AID TO THE CONTRACTOR ESPECIALLY IN THE AREA OF COORDINATING THE DRAWINGS AND SPECIFICATIONS, THE KEY NOTE SYSTEM IS NOT INTENDED TO REPLACE THE RESPONSIBILITY OF THE CONTRACTOR IN HIS COORDINATION PROCESS.
2. THE CONTRACTORS SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS, BOTH EXISTING AND NEW, REPORTING ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION BEFORE BEGINNING ANY PHASE OF THE WORK AS EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK FITTING.
3. THIS PROJECT IS INTENDED TO COMPLY WITH THE FOLLOWING CODES:
   1. 2015 INTERNATIONAL BUILDING CODE (IBC), WITH LOCAL ORDINANCES
      2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), WITH LOCAL ORDINANCES
      2015 INTERNATIONAL FIRE CODE (IFC), WITH LOCAL ORDINANCES
      2015 INTERNATIONAL MECHANICAL CODE (IMC), WITH LOCAL ORDINANCES
      2015 INTERNATIONAL PLUMBING CODE (IPC), WITH LOCAL ORDINANCES
   2. 2014 NATIONAL ELECTRICAL CODE (NEC), WITH LOCAL ORDINANCES
   3. NATIONAL FIRE PROTECTION ASSOCIATION 101, LIFE SAFETY CODE, LATEST EDITION,
   4. TEXAS ACCESSIBILITY STANDARDS (TAS)

SYMBOL LEGEND





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C7.00	EROSION CONTROL PLAN
C7.10	EROSION CONTROL DETAILS

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PLEASANTON, TEXAS

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PROJECT NO: 202420

DATE: 20250306

GENERAL INFORMATION

G0.01

DRG REFERENCE

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DRAWN BY: Author

DESIGNED BY: Designer

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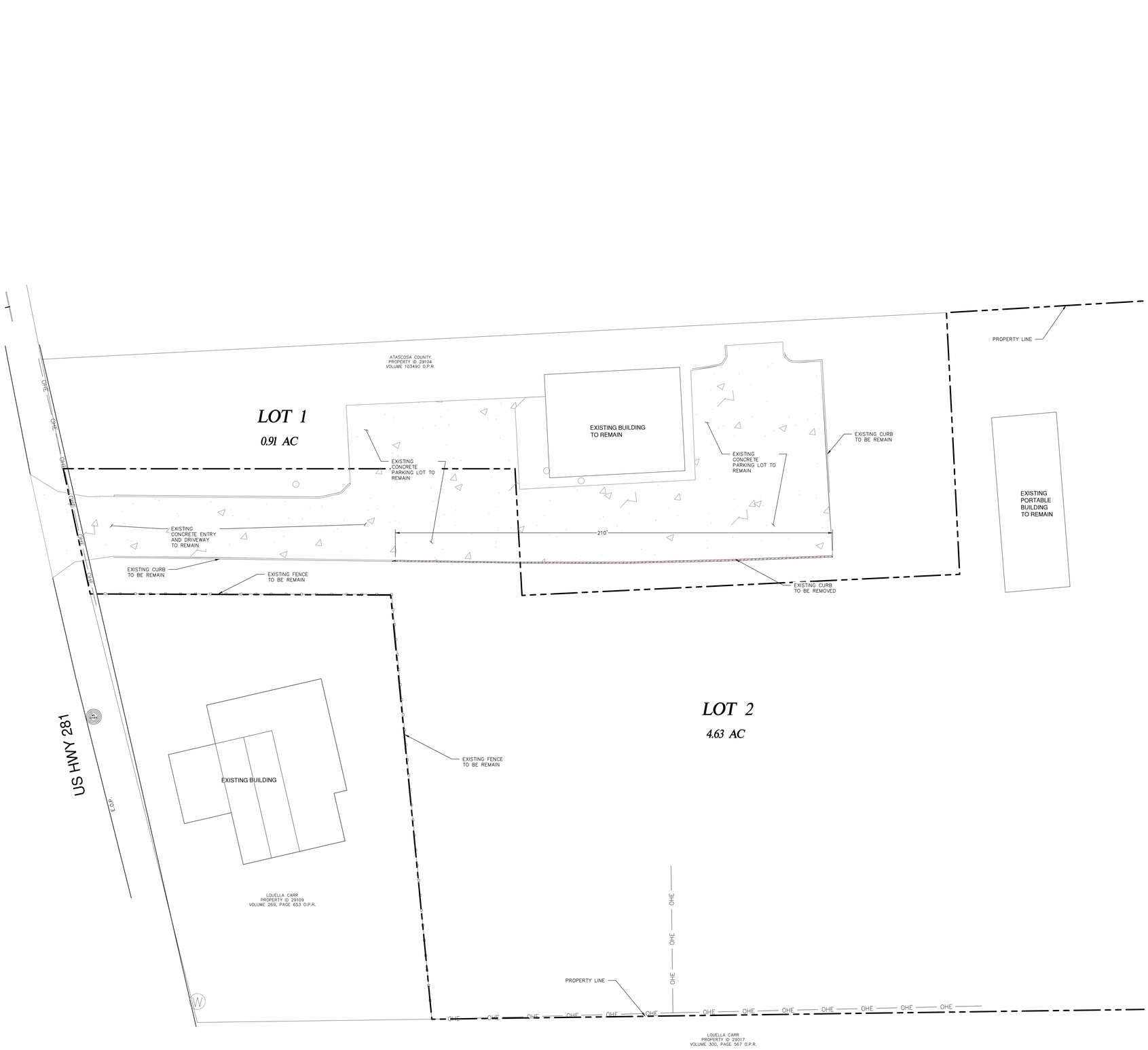

20 0 20 40

SCALE OF FEET
1" = 20'

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- OHE — OHE — EXISTING OVERHEAD ELECTRIC
- W — W — EXISTING WATER MAIN
- SS — SS — EXISTING SANITARY SEWER MAIN
- GAS — GAS — EXISTING GAS LINE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- EXISTING MANHOLE
- EXISTING SIGN
- PP — EXISTING POWER POLE
- W — EXISTING WATER METER

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ ENGINEERING
Texas Registered Engineering Firm F-9155
Texas Registered Surveying Firm 10081500
www.rakowitzengineering.com 830-281-6040

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PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250130

DEMOLITION PLAN

C1.00

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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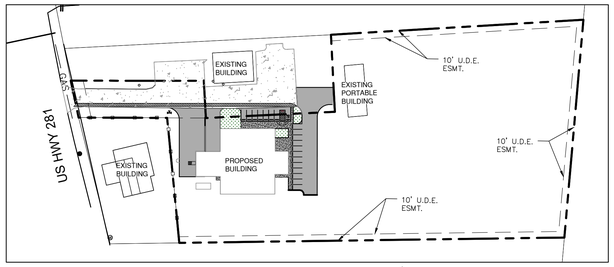
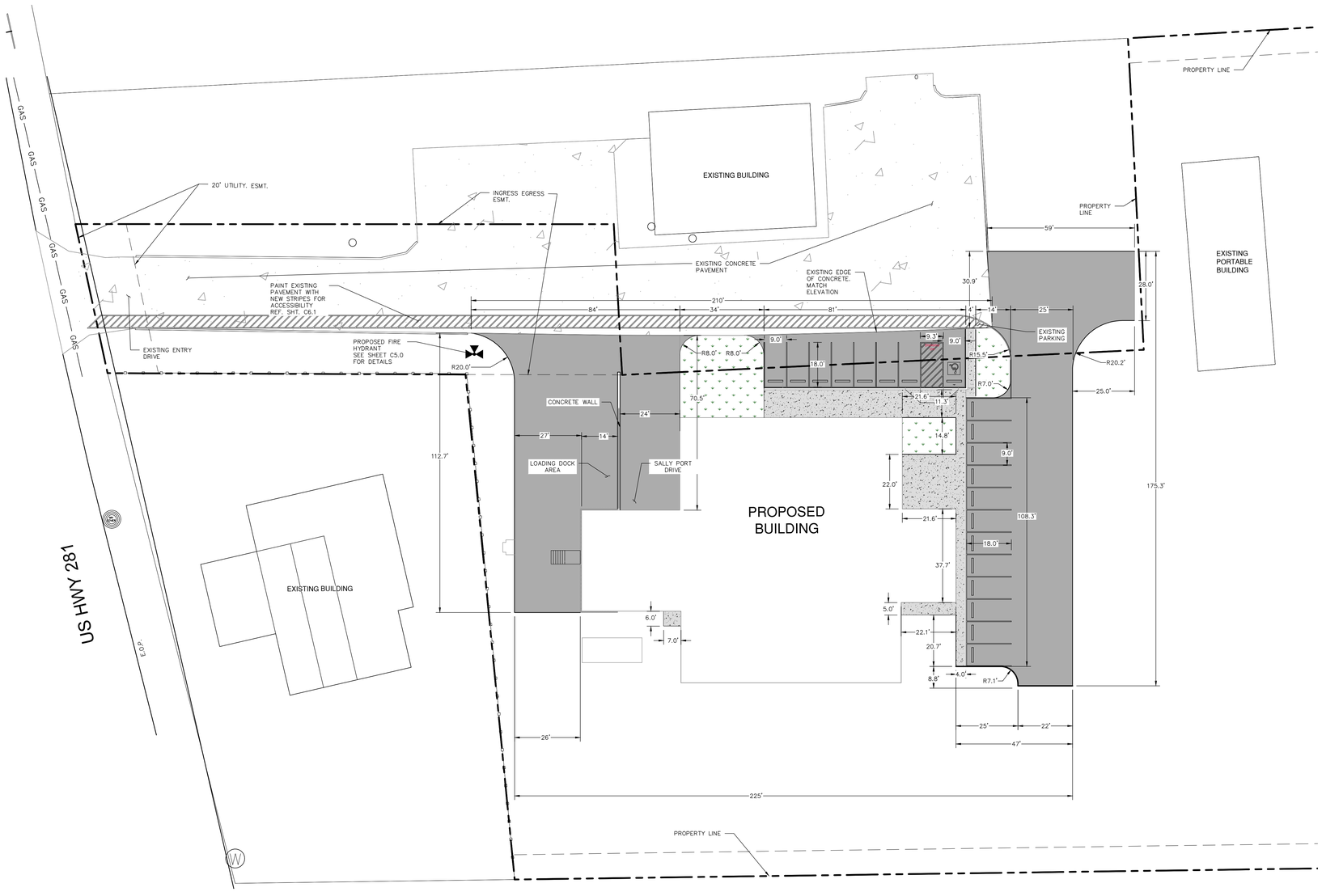
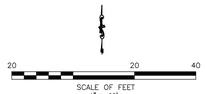


OVERALL PROPERTY MAP

100 0 100 200

SCALE OF FEET
1" = 100'





LEGEND

- PROPERTY LINE
- ROADWAY
- BACK OF CONCRETE CURB
- FACE OF CONCRETE CURB
- EXISTING FENCE
- EASEMENT
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED PARKING LINES
- PROPOSED FENCE

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- EXISTING CONCRETE PAVING
- PROPOSED 4" REINFORCED CONCRETE SIDEWALK
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT
- PROPOSED LANDSCAPING

GENERAL SITE DIMENSION NOTES:
1. *ALL DIMENSIONS MUST BE VERIFIED ON THE JOB AND THE ENGINEER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.*
2. *IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTION OF THE PROJECT.*
3. *ALL HORIZONTAL CONTROL SHALL BE ESTABLISHED PER THE CONSTRUCTION DRAWINGS.*
4. *ALL CURB RADII ARE 2' UNLESS SPECIFIED OTHERWISE.*
5. *CONTRACTOR TO COORDINATE PLACEMENT OF HANDICAP SIGNAGE WITH THE OWNER.*

SITE LIGHTING:
1. *REFER TO THE ARCHITECTURAL PLANS AND MEP PLANS FOR SITE LIGHT POLES AND DETAILS.*

PARKING SUMMARY:

PARKING SPACES PROVIDED	*19*
HANDICAPPED SPACES REQUIRED	*1*
HANDICAPPED SPACES PROVIDED	*1*

GENERAL NOTES:
1. *CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND CABLES AND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES.*
2. *LOCATION OF ALL EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.*
3. *CONTRACTOR TO COORDINATE PLACEMENT OF HANDICAP SIGNAGE WITH THE OWNER.*

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ ENGINEERING
Texas Registered Engineering Firm F-3155
Texas Registered Land Surveying Firm 10124500
Texas Registered Landscape Architect 2975
8351 DR. S. MENDOZA
EDCOUCH, TEXAS 78538
956.261.6400

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PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250228

Site Plan

C2.00

DRAWN BY: Author
DESIGNED BY: Designer

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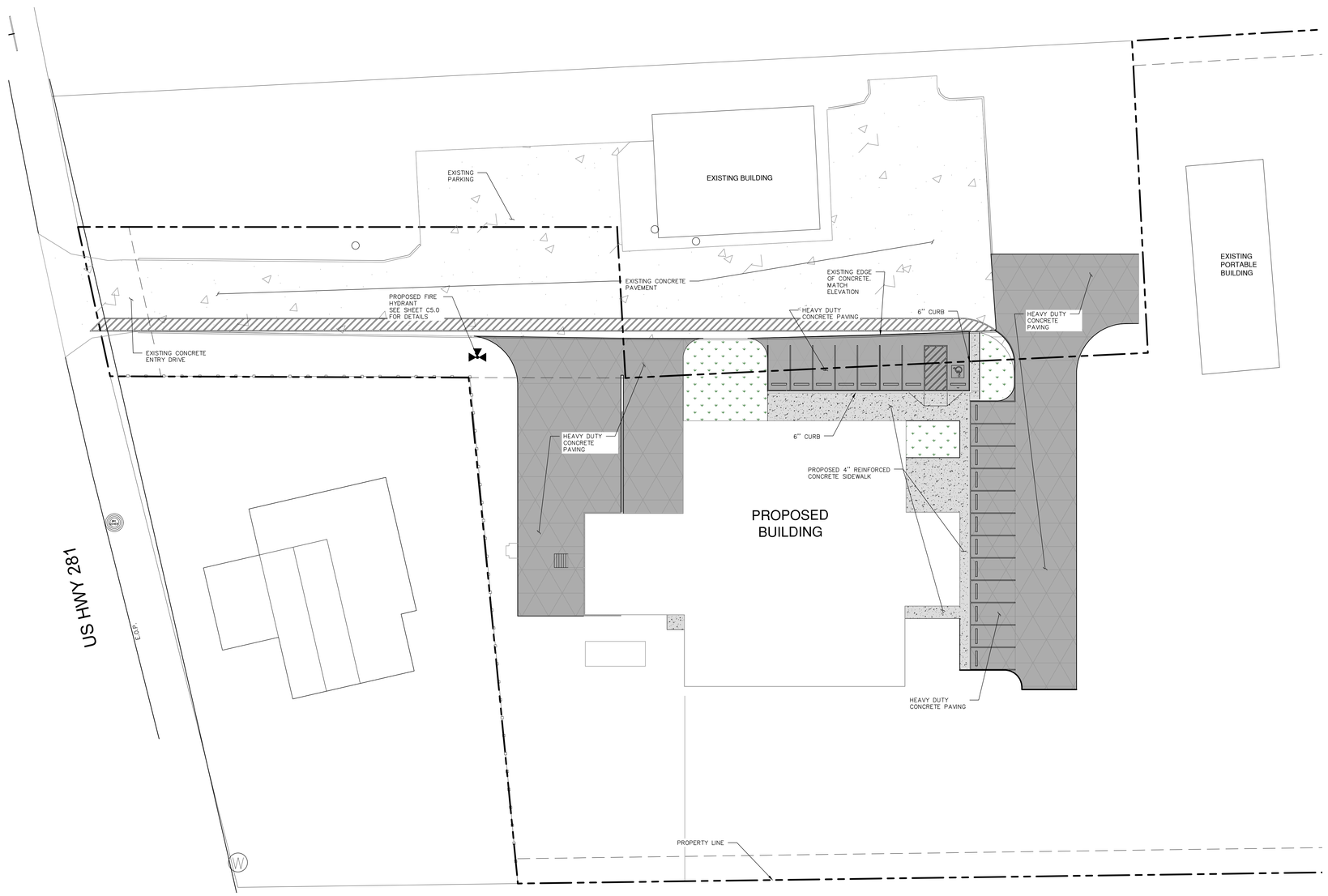

20 0 20 40
SCALE OF FEET
1" = 20'

LEGEND

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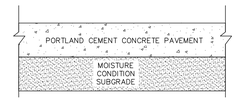
LEGEND

- ROADWAY
- BACK OF CONCRETE CURB
- FACE OF CONCRETE CURB
- EXISTING FENCE
- CPS EASEMENT
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED FENCE
- EXISTING CONCRETE PAVING
- PROPOSED 4" REINFORCED CONCRETE SIDEWALK (211 ± S.Y.)
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT (1090 ± S.Y.)

PAVEMENT NOTES:
1. PAVEMENT RECOMMENDATIONS ARE TAKEN FROM THE PROJECT GEOTECHNICAL REPORT , BURGE ENGINEERING AND ASSOCIATES PROJECT NO. 12-24-0625, PREPARED BY BURGE ENGINEERING AND ASSOCIATES TESTING LABORATORY ON NOVEMBER 27, 2024.
2. CONTRACTOR SHALL REFERENCE THE PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS & SPECIFICATIONS.
3. OTHER PAVEMENT SECTIONS MAY BE AVAILABLE. REFERENCE GEOTECHNICAL REPORT FOR THESE OPTIONS.
4. REFER TO STRUCTURAL PLAN FOR CONCRETE STOOPS.
5. REFER TO GEOTECHNICAL REPORT FOR CONCRETE PAVEMENT REINFORCEMENT SIZE & SPACING

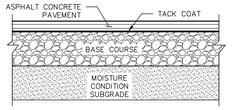


PAVEMENT MATERIAL	LIGHT DUTY CONCRETE
REINFORCED CONCRETE	6"
COMPACTED SUBGRADE	6"

CONCRETE PAVEMENT SECTIONS

REFERENCE GEOTECHNICAL REPORT PREPARED BY FROST GEOSCIENCES TESTING LABORATORY DATED JUNE 27TH, 2017, FOR PAVEMENT MATERIALS AND CONSTRUCTION REQUIREMENTS. CONTRACTOR SHALL MEET OR EXCEED ALL PAVING RECOMMENDATIONS.

GENERAL NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND CABLES AND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES.
2. LOCATION OF ALL EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. CONTRACTOR TO COORDINATE PLACEMENT OF HANDICAP SIGNAGE WITH THREE RIVERS HEALTH CENTER.



PAVEMENT MATERIAL	LIGHT DUTY ASPHALT
TXDOT ITEM 340, TYPE D HMAC	1 1/2"
TXDOT ITEM 247, TYPE A, GRADE 1, DR 2 FLEXIBLE BASE	7"
COMPACTED SUBGRADE	6"

FLEXIBLE PAVEMENT SECTIONS

REFERENCE GEOTECHNICAL REPORT PREPARED BY BURGE ENGINEERING AND ASSOCIATES TESTING LABORATORY DATED NOVEMBER 27TH, 2024, FOR PAVEMENT MATERIALS AND CONSTRUCTION REQUIREMENTS. CONTRACTOR SHALL MEET OR EXCEED ALL PAVING RECOMMENDATIONS.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ Engineering & Surveying
Texas Registered Engineering Firm F-3120
Texas Registered Surveying Firm LS-100202-00
(512) 297-0400

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PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250130

PAVING PLAN

C3.00

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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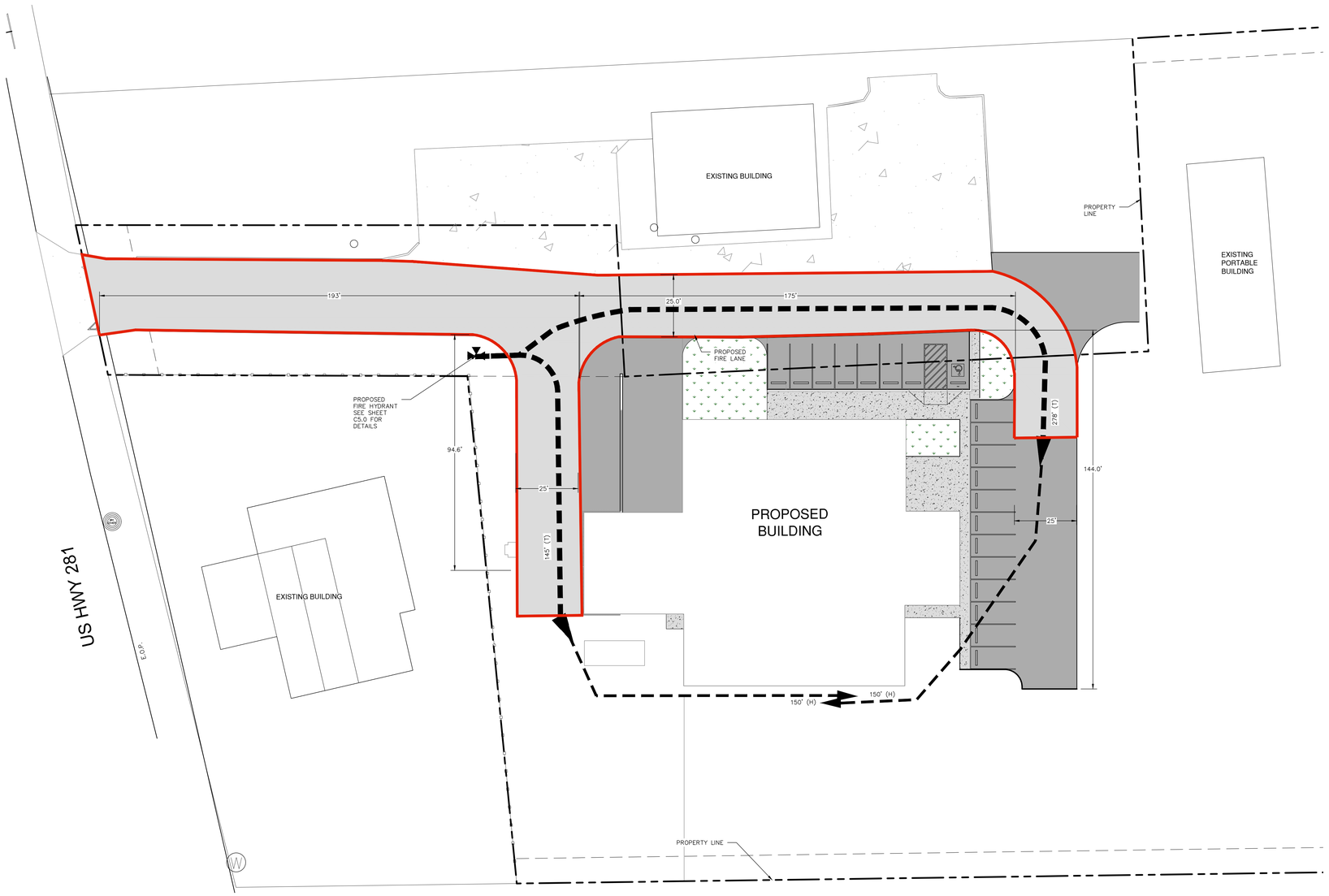

20 0 20 40

SCALE OF FEET
1" = 20'

LEGEND

- PROPERTY LINE
- ROADWAY
- BACK OF CONCRETE CURB
- FACE OF CONCRETE CURB
- EXISTING FENCE
- EASEMENT
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- X' (T) — TRUCK PULL HOSE LAY
- X' (H) — HAND PULL HOLSE LAY
- PROPOSED FIRE LANE
- PROPOSED FENCE

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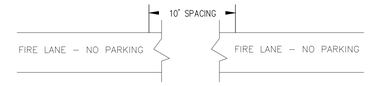
GENERAL NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND CABLES AND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES.
2. LOCATION OF ALL EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

FIRE PROTECTION NOTES:
1. FIRE LANES SHALL HAVE A MINIMUM 2-WAY TRAFFIC WIDTH OF 25 FT WITH A MINIMUM OUTSIDE TURNING RADIUS OF 50 FEET, UNLESS OTHERWISE NOTED.
2. FIRE LANES NEXT TO FIRE HYDRANTS OR DESIGNATED FOR AERIAL APPARATUS SHALL BE A MINIMUM OF 26 FEET.
3. FIRE LANES SHALL BE DESIGNATED IN ACCORDANCE WITH THE LATEST INTERNATIONAL FIRE CODE AND PER APPLICABLE LOCAL AMENDMENTS.



NOTES:
1. FIRE LANE MARKING 6" WIDE, RED PAINTED STRIPE WITH 4" HIGH WHITE LETTERS
2. IF FIRE LANE BOUNDARY IS ADJACENT TO CURB PAINT MARKINGS ON CURB, IF NOT, PAINT ON PAVEMENT SURFACE.
3. APPLY PAINT TO CLEAN, DRY SURFACES, ONLY WHEN THE AIR AND SURFACE TEMPERATURE IS BETWEEN 50°-95°.
4. ALLOW NEW PAVEMENT SURFACES TO CURE FOR A PERIOD OF NOT LESS THAN 30 DAYS BEFORE APPLICATION OF MARKING MATERIALS.
5. UTILIZE SUITABLE WARNING SIGNS AND TRAFFIC CONTROL AS NECESSARY TO ACCOMPLISH AND PROTECT WORK.

FIRE LANE MARKING DETAIL

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ Engineering & Surveying
Texas Registered Engineering Firm F-3100
Texas Registered Surveying Firm LS-100180-00
(210) 317-0400

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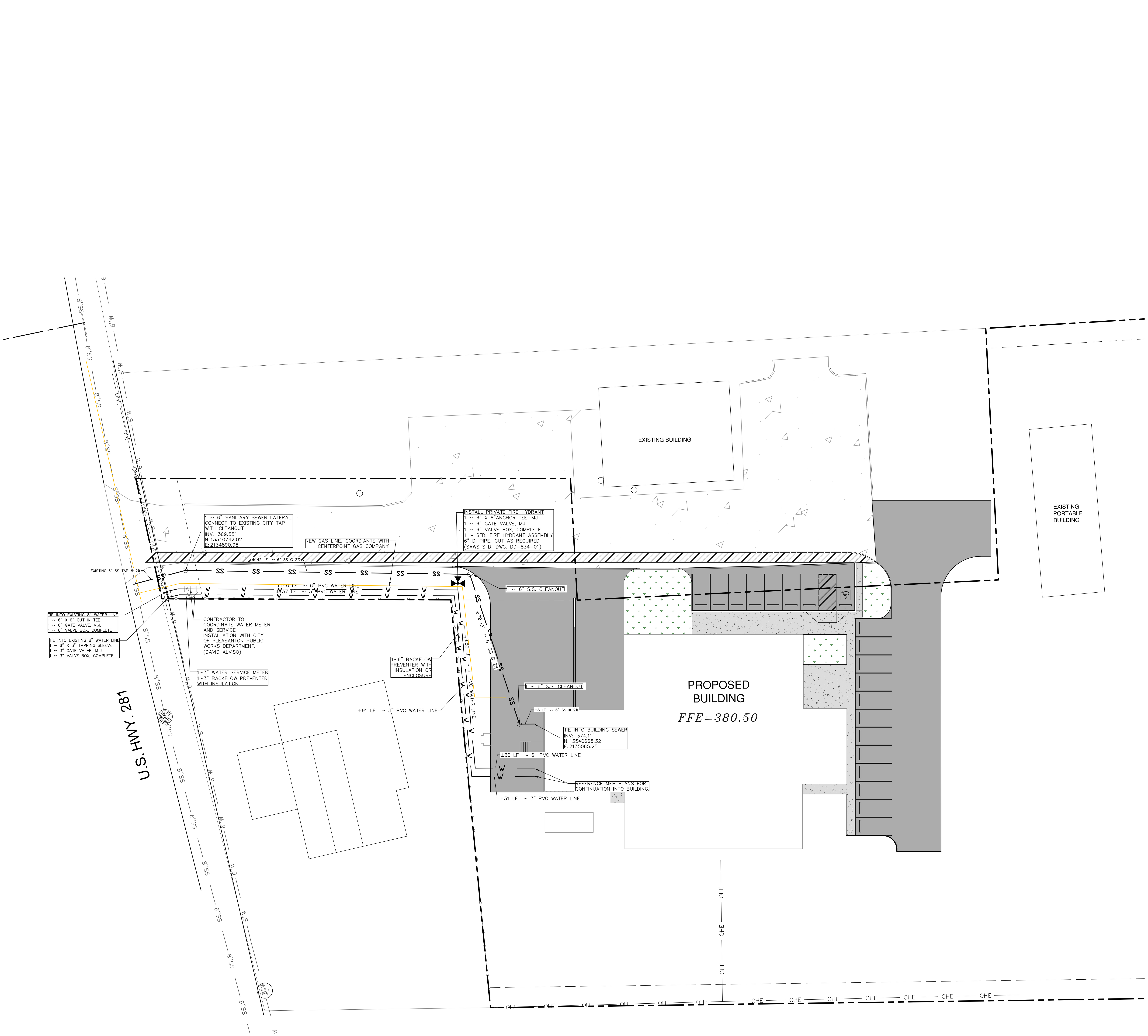
PROJECT NO: 202420
DATE: 20250130

FIRE PROTECTION PLAN

C4.00

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- OHE — OHE — EXISTING OVERHEAD ELECTRIC
- FM — FM — FORCE MAIN
- 8"W — EXISTING 8" WATER MAIN
- W — W — EXISTING WATER MAIN
- 8"SS — EXISTING 8" SEWER MAIN
- GAS — GAS — EXISTING GAS LINE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED WATER MAIN LINE
- PROPOSED SEWER MAIN LINE

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TRENCH SAFETY NOTE:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

UNDERGROUND UTILITIES
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION & ELEVATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM UTILITY COMPANY RECORDS AND WHERE POSSIBLE, FIELD MEASUREMENTS. THE PROVIDED INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES & SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST EXACT FIELD LOCATIONS OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY RELOCATION OR DAMAGE TO UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT.

OVERHEAD ELECTRIC
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT OVERHEAD ELECTRIC LINES MAY BE IN THE VICINITY OF SOME OR ALL OF THE WORK AREAS. THE CONTRACTOR SHOULD EXERCISE CAUTION IN THESE AREAS WITH CONSTRUCTION EQUIPMENT AND CONSTRUCTION PERSONNEL. THE CONTRACTOR IS RESPONSIBLE FOR ANY RELOCATION OR DAMAGE TO EXISTING ELECTRIC LINES, WHETHER SHOWN ON THESE PLANS OR NOT.

NOTE:
THE WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, THE CITY OF FLORESVILLE, AND RULES OF THE TEXAS INSURANCE COMMISSION.

GENERAL NOTES:
1. *CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND CABLES AND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES.*
2. *LOCATION OF ALL EXISTING UTILITIES IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.*
3. *CONTRACTOR TO COORDINATE CONNECTION OF WATER AND SEWER WITH CITY OF THREE RIVERS PUBLIC WORKS DEPARTMENT.*
4. *FOR BUILDING ENTRY POINTS, ENTRY ELEVATIONS, AND PEDESTRIAN DETAILS, SEE ARCHITECTURAL PLANS.*
5. *ALL WATER MAINS AND FIRE LINES ARE C-900 PVC IN SIZE SHOWN. ALL WATER SERVICES ARE COPPER, OR AS SHOWN ON SERVICE DETAIL.*
6. *ALL SANITARY MAINS AND SERVICES ARE SDR 26 PVC IN SIZE SHOWN. SANITARY SERVICES SHALL HAVE A MINIMUM SLOPE OF 0.5% AND CLEANOUTS SANITARY SERVICES SHALL HAVE A MINIMUM SLOPE OF 0.5% AND CLEANOUTS INSTALLED AT BUILDINGS, BENDS, PROPERTY LINES AND AT INTERVALS NOT TO EXCEED 100 LF ON STRAIGHT RUNS.*
7. *ALL WATER MAINS AND FIRE LINES ARE C-900 PVC IN SIZE SHOWN. ALL WATER SERVICES ARE COPPER, OR AS SHOWN ON SERVICE DETAIL, TO METER BOX. CHECK MEP PLANS FOR WATER SERVICE MATERIAL TO BUILDING.*

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ Engineering & Surveying
Texas Registered Engineering Firm F-9155
Texas Registered Surveying Firm 10181200
830-281-4060

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50% CD PACKAGE

PROJECT NO: 202420
DATE: 20250130

UTILITY PLAN

C5.00

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

GENERAL WATER NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL BE APPROVED BY THE CITY OF THREE RIVERS.
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY NOTIFY CITY OF THREE RIVERS CONSTRUCTION INSPECTION DIVISION AND ENGINEER WITH AT LEAST 3 WORKING DAYS (72 HOURS) NOTICE.
3. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS, AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION.
4. NO METER BOXES TO BE SET IN DRIVEWAYS. ANY METER BOXES SET IN DRIVEWAYS WILL BE RELOCATED AT CONTRACTOR'S AND/OR DEVELOPER'S EXPENSE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION FROM DAMAGE DONE TO EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, LANDSCAPING AND STRUCTURES.
6. NOT USED.

SUPPLEMENTARY

7. NO EXTRA-PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.
8. THE DEVELOPER DEDICATES THE WATER MAINS UPON COMPLETION BY THE DEVELOPER AND ACCEPTANCE BY THE CITY OF THREE RIVERS. THE CITY OF THREE RIVERS WILL OWN AND MAINTAIN SAID WATER MAINS WHICH ARE LOCATED WITHIN THIS PARTICULAR SUBDIVISION. (AS APPLICABLE)
9. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
10. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE CITY OF THREE RIVERS CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.

ADDITIONAL NOTES

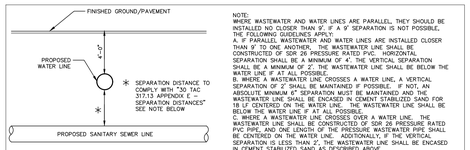
11. MACHINE CHLORINATION BY THE CONTRACTOR.
12. 6" THROUGH 12" PIPE SHALL BE C-900 CLASS 150 (DR18). PIPE GREATER THAN 12" SHALL BE C-905.
13. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR AND OBSERVED BY THE ENGINEER, CONTRACTOR WILL BE RESPONSIBLE FOR ALL BACTERIOLOGICAL TESTING.
14. THE WATER LINES WILL BE SET FROM THE LOT CORNERS BEFORE THIS CONTRACT BEGINS. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING, THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
15. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
16. THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
17. NOT USED.
18. WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
19. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
20. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE CITY OF THREE RIVERS RELEASES THE MAIN FOR TIE-IN AND USE.
21. UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
22. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS". (1988 OR ANY REVISIONS THERETO).
23. ALL TRENCH BACKFILL FOR THIS PROJECT SHALL BE ACCOMPLISHED IN ONE-FOOT LIFTS COMPACTED TO 95% MAXIMUM DRY DENSITY. NO WATER JETTING WILL BE ALLOWED. OBSERVATION OF TRENCH BACKFILL WILL BE SUPPLEMENTED BY MOISTURE-DENSITY TESTING CONDUCTED AT PERIODIC INTERVALS DURING THE COMPACTION PROCESS. THE CONTRACTOR WILL BE REQUIRED TO MAKE SUITABLE EXCAVATION TO ALLOW ACCESS FOR SUCH TESTING, AND WILL BE REQUIRED TO REMOVE AND REPLACE BACKFILL AS MANY TIMES AS NECESSARY TO ACHIEVE 95% COMPACTION.
24. ALL MAINS ARE ON-SITE.
25. WHERE WASTEWATER AND WATER LINES ARE PARALLEL, THEY SHOULD BE INSTALLED NO CLOSER THAN 9'. IF A 9' SEPARATION IS NOT POSSIBLE, THE FOLLOWING GUIDELINES APPLY:
A. IF PARALLEL WASTEWATER AND WATER LINES ARE INSTALLED CLOSER THAN 9' TO ONE ANOTHER, THE WASTEWATER LINE SHALL BE CONSTRUCTED OF SDR 26 PRESSURE RATED PVC. HORIZONTAL SEPARATION SHALL BE A MINIMUM OF 4'. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF 2'. THE WASTEWATER LINE SHALL BE BELOW THE WATER LINE IF AT ALL POSSIBLE.
B. WHERE A WASTEWATER LINE CROSSES A WATER LINE, A VERTICAL SEPARATION OF 2' SHALL BE MAINTAINED IF POSSIBLE. IF NOT, AN ABSOLUTE MINIMUM 6" SEPARATION MUST BE MAINTAINED AND THE WASTEWATER LINE SHALL BE ENCASED IN CEMENT STABILIZED SAND FOR 18 LF CENTERED ON THE WATER LINE. THE WASTEWATER LINE SHALL BE BELOW THE WATER LINE IF AT ALL POSSIBLE.
C. WHERE A WASTEWATER LINE CROSSES OVER A WATER LINE, THE WASTEWATER LINE SHALL BE CONSTRUCTED OF SDR 26 PRESSURE RATED PVC PIPE, AND ONE LENGTH OF THE PRESSURE WASTEWATER PIPE SHALL BE CENTERED ON THE WATER LINE. ADDITIONALLY, IF THE VERTICAL SEPARATION IS LESS THAN 2', THE WASTEWATER LINE SHALL BE ENCASED IN CEMENT STABILIZED SAND AS DESCRIBED ABOVE.

GENERAL SANITARY SEWER NOTES

1. NOT USED.
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY NOTIFY CITY OF THREE RIVERS CONSTRUCTION INSPECTION DIVISION AND ENGINEER WITH AT LEAST 3 WORKING DAYS NOTICE.
3. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES, TO INCLUDE SERVICE LATERALS, SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES 48 HOURS PRIOR TO EXCAVATION AND TO PROTECT THE SAME DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN SERVICE TO ALL EXISTING SANITARY SEWERS AT ALL TIMES DURING CONSTRUCTION.
5. ALL WORK IN TEXAS HIGHWAY DEPARTMENT, CITY OF FLORESVILLE AND WILSON COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMITS.
6. NOT USED.
7. ALL MANHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE RING IS AT LEAST FOUR (4) INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND EXCEPT WHEN LOCATED IN PAVED AREAS. IN PAVED AREAS, THE MANHOLE RING SHALL BE FLUSH WITH PAVEMENT.
8. NOT USED.
9. THE USE OF ASBESTOS CEMENT PIPE WILL BE PROHIBITED UNDER THIS CONTRACT. ALL DUCTILE IRON PIPE USED IN THIS SYSTEM SHALL BE CORROSION PROTECTED ON BOTH THE INTERIOR AND EXTERIOR SURFACES. ALL CORROSION PROTECTION SHALL BE APPLIED AND INSTALLED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUSLY PROTECTED SURFACE AFTER FINAL PIPE INSTALLATION.
10. ALL PVC SEWER PIPE WITH OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH, MINIMUM PIPE STIFFNESS OF 115 PSI.
11. SEWER PIPE CONNECTIONS TO PRE-CAST MANHOLES WILL BE COMPRESSION JOINTS AS APPROVED BY ENGINEER, MECHANICAL JOINT "BOOT TYPE" CONNECTIONS ALONE WILL NOT BE ALLOWED. "BOOT TYPE" JOINTS MAY BE USED IN CONJUNCTION WITH COMPRESSION JOINTS AS APPROVED BY ENGINEER. ANY CHANGES FROM THESE METHODS MUST BE APPROVED BY ENGINEER.
12. ALL RESIDENTIAL SEWER SERVICE LATERAL SHALL BE EXTENDED TO THE PROPERTY LINE AND CAPPED AND SEALED. (ITEM. NO. DD-854-01)
13. WHERE REQUIRED, CONCRETE ENCASEMENT SHALL BE PLACED FOR FULL WIDTH OF THE TRENCH TO A PLANE 6" ABOVE THE TOP OF THE PIPE, WITH PAY LIMITS AS SHOWN ON THE ITEM NO. DD-858-01.
14. A MINIMUM OF 3 FEET OF COVER IS TO BE MAINTAINED OVER THE SANITARY SEWER MAIN AND LATERALS AT SUBGRADE, OTHERWISE CONCRETE ENCASEMENT WILL BE REQUIRED.
15. NO BLASTING SHALL BE PERFORMED WITHIN 75 FEET OF EXISTING UTILITIES.
16. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION. THE CONTRACTOR SHALL NOT PERMANENTLY PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
17. NOT USED.
18. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT; IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEM, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
19.
A. THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRES EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION OF SEWER COLLECTION SYSTEMS. DEVELOPER OR AUTHORIZED REPRESENTATIVE SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL AS NOTED ON THE PROJECT'S PLAN AND PROFILE SHEETS.
B. AT A MINIMUM, THESE CONTROLS SHALL CONSIST OF ROCK BERMS AND/OR SILT FENCES CONSTRUCTED PARALLEL TO AND DOWN GRADIENT FROM THE TRENCHES. THE ROCK BERM OR SILT FENCES SHALL BE INSTALLED IN A MANNER SUCH THAT ANY RAINFALL RUNOFF SHALL BE FILTERED. HAY BALES SHALL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS.
C. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO CONSTRUCTION, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL BE REMOVED WHEN VEGETATION IS ESTABLISHED AND THE CONSTRUCTION AREA IS STABILIZED. ADDITIONAL PROTECTION MAY BE NECESSARY IF EXCESSIVE SOLIDS ARE BEING DISCHARGED FROM THE SITE.
20. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT THE FINAL ACCEPTANCE OF THE PROJECT BY THE CITY OF FLORESVILLE.
21. PLACEMENT OF SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION PLANS. ACTUAL LOCATIONS MAY VARY SLIGHTLY FROM THE PLANS, BUT WILL BE VERIFIED BY THE ENGINEER/INSPECTOR IN THE FIELD PRIOR TO SEWER LINE CONSTRUCTION. THE CONTRACTOR AND CITY INSPECTOR SHALL INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY SIGNIFICANT RAINFALL TO INSURE SIGNIFICANT DISTURBANCE TO THE STRUCTURES HAS NOT OCCURRED. SEDIMENT DEPOSITED AFTER A SIGNIFICANT RAINFALL SHALL BE REMOVED FROM THE SITE OR PLACED IN AN APPROVED DESIGNATED SOIL DISPOSAL AREA.
22. A DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER INITIAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. ITEM NO. 849
23. ALL MAINS MUST PASS AIR TESTING PER ITEM NO. 849 IN THE STANDARD SPECIFICATIONS PRIOR TO ACCEPTANCE BY THE CITY OF FLORESVILLE.
24. ALL MAINS MUST COMPLY WITH ITEM NO. 868 OF SEWER MAIN CLEANING.
25. WATER JETTING THE BACKFILL WITHIN A STREET WILL NOT BE PERMITTED. SANITARY SEWER TRENCHES SUBJECT TO TRAFFIC SHALL CONFORM TO THE CITY OF FLORESVILLE STANDARDS.
26. SANITARY SEWER MAIN CONNECTIONS MADE DIRECTLY TO EXISTING MANHOLES WILL REQUIRE SUCCESSFUL TESTING OF THE MANHOLES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF ITEM 849.
27. AFTER CONSTRUCTION, TESTING WILL BE DONE BY T.V. CAMERA BY THE CONTRACTOR AND OBSERVED BY INSPECTOR, AND WASTEWATER ENGINEERING PERSONNEL AS THE CAMERA IS RUN THROUGH THE LINES. ANY ABNORMALITIES, SUCH AS BROKEN PIPE OR MISALIGNED JOINTS, MUST BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
28. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO THE CITY OF FLORESVILLE CONSTRUCTION INSPECTION DIVISION.
29. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.
30. THE DEVELOPER DEDICATES THE SANITARY SEWER MAINS UPON COMPLETION BY THE DEVELOPER AND ACCEPTANCE BY THE CITY OF FLORESVILLE. THE CITY OF FLORESVILLE WILL OWN AND MAINTAIN SAID SANITARY SEWER MAINS WHICH ARE LOCATED WITHIN THIS PARTICULAR SUBDIVISION. (AS APPLICABLE).
31. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
32. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A GENERAL CONSTRUCTION PERMIT OR THE CONSENT OF THE CITY OF FLORESVILLE CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.

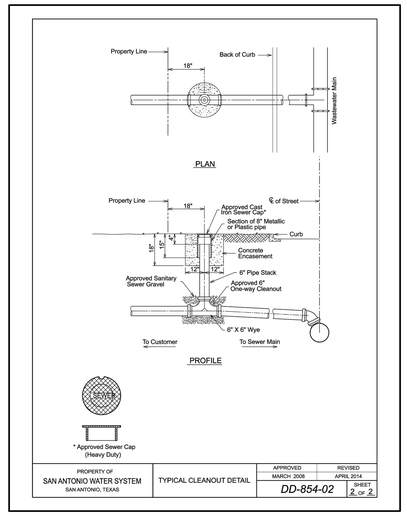
CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS

I. WHERE A SEWER MAIN CROSSES OVER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE (9) FEET, ALL PORTIONS OF THE SEWER MAIN WITHIN NINE (9) FEET OF THE WATER LINE SHALL BE CONSTRUCTED USING 150 PSI PRESSURE RATED DUCTILE IRON, CAST IRON OR PVC PIPE AND JOINED WITH EQUALLY PRESSURE RATED PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON MATERIAL. A SECTION OF 150 PSI PRESSURE RATED PIPE AT LEAST EIGHTEEN (18) FEET IN LENGTH MAY BE CENTERED ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO SEPARATE PAY ITEM.)
II. WHERE A SEMI-RIGID OR RIGID SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET BUT GREATER THAN TWO FEET, THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF THE SEWER WITHIN NINE FEET OF THE WATER MAIN.
III. WHERE A SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN TWO FEET, THE SEWER MAIN SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI WITHIN NINE FEET OF THE WATER MAIN, SHALL HAVE A SEGMENT OF SEWER PIPE CENTERED ON THE WATER MAIN, SHALL BE PLACED NO CLOSER THAN SIX INCHES BETWEEN OUTER DIAMETERS, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON MATERIAL. A SECTION OF 150 PSI PRESSURE RATED PIPE OF A LENGTH GREATER THAN EIGHTEEN (18) FEET MAY BE CENTERED ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO SEPARATE PAY ITEM)
IV. WHERE A SEWER MAIN PARALLELS A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET, THE SEWER MAIN SHALL BE BELOW THE WATER MAIN, SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI FOR BOTH PIPE AND JOINTS FOR A DISTANCE OF NINE FEET BEYOND THE POINT OF CONFLICT, SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE BETWEEN OUTER DIAMETERS OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON MATERIAL.
V. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED ANY CLOSER THAN NINE FEET TO WATER MAINS.

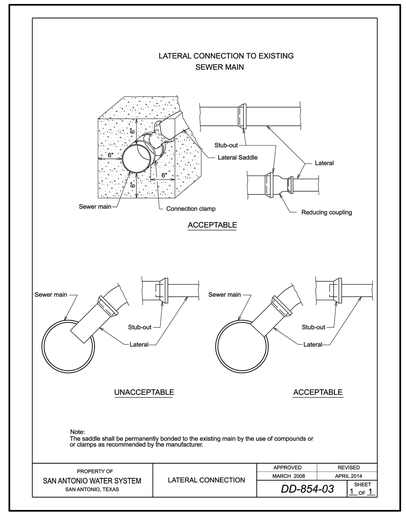


NOTE:
WHERE WASTEWATER AND WATER LINES ARE PARALLEL, THEY SHOULD BE INSTALLED NO CLOSER THAN 9'. IF A 9' SEPARATION IS NOT POSSIBLE, THE FOLLOWING GUIDELINES APPLY:
A. IF PARALLEL WASTEWATER AND WATER LINES ARE INSTALLED CLOSER THAN 9' TO ONE ANOTHER, THE WASTEWATER LINE SHALL BE CONSTRUCTED OF SDR 26 PRESSURE RATED PVC. HORIZONTAL SEPARATION SHALL BE A MINIMUM OF 4'. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF 2'. THE WASTEWATER LINE SHALL BE BELOW THE WATER LINE IF AT ALL POSSIBLE.
B. WHERE A WASTEWATER LINE CROSSES A WATER LINE, A VERTICAL SEPARATION OF 2' SHALL BE MAINTAINED IF POSSIBLE. IF NOT, AN ABSOLUTE MINIMUM 6" SEPARATION MUST BE MAINTAINED AND THE WASTEWATER LINE SHALL BE ENCASED IN CEMENT STABILIZED SAND FOR 18 LF CENTERED ON THE WATER LINE. THE WASTEWATER LINE SHALL BE BELOW THE WATER LINE IF AT ALL POSSIBLE.
C. WHERE A WASTEWATER LINE CROSSES OVER A WATER LINE, THE WASTEWATER LINE SHALL BE CONSTRUCTED OF SDR 26 PRESSURE RATED PVC PIPE, AND ONE LENGTH OF THE PRESSURE WASTEWATER PIPE SHALL BE CENTERED ON THE WATER LINE. ADDITIONALLY, IF THE VERTICAL SEPARATION IS LESS THAN 2', THE WASTEWATER LINE SHALL BE ENCASED IN CEMENT STABILIZED SAND AS DESCRIBED ABOVE.

TYPICAL WATER/SANITARY SEWER CROSSING DETAIL
NOT TO SCALE

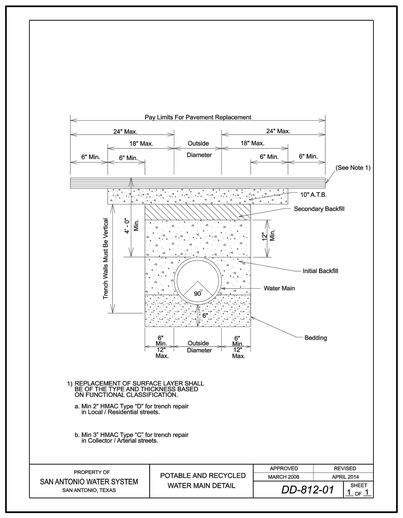


PROPERTY OF SAN ANTONIO WATER SYSTEM, SAN ANTONIO, TEXAS	TYPICAL CLEANOUT DETAIL	APPROVED MARCH 2008	REVISED APRIL 2014
		DD-854-02	SHEET 2 OF 2



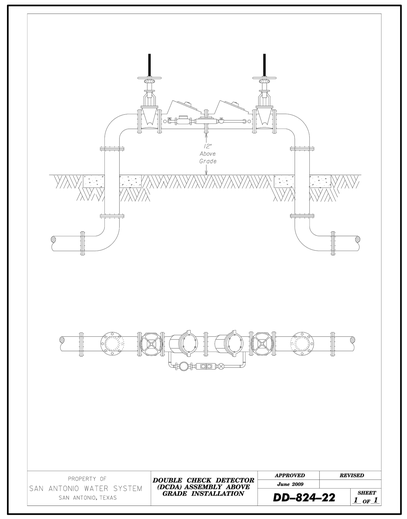
Note:
The saddle shall be permanently bonded to the existing main by the use of compounds or or clamps as recommended by the manufacturer.

PROPERTY OF SAN ANTONIO WATER SYSTEM, SAN ANTONIO, TEXAS	LATERAL CONNECTION	APPROVED MARCH 2008	REVISED APRIL 2014
		DD-854-03	SHEET 1 OF 1

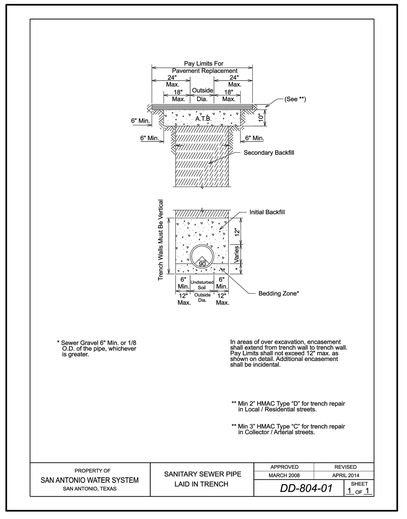


1) REPLACEMENT OF SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
a. Min 2" HMAC Type "D" for trench repair in Local / Residential streets.
b. Min 3" HMAC Type "C" for trench repair in Collector / Arterial streets.

PROPERTY OF SAN ANTONIO WATER SYSTEM, SAN ANTONIO, TEXAS	POTABLE AND RECYCLED WATER MAIN DETAIL	APPROVED MARCH 2008	REVISED APRIL 2014
		DD-812-01	SHEET 1 OF 1



PROPERTY OF SAN ANTONIO WATER SYSTEM, SAN ANTONIO, TEXAS	DOUBLE CHECK DETECTOR (DCDA) ASSEMBLY ABOVE GRADE INSTALLATION	APPROVED June 2008	REVISED
		DD-824-22	SHEET 1 of 1



* Sewer Gravel 6" Min. or 1/8 O.D. of the pipe, whichever is greater.

In areas of over excavation, encasement shall extend from trench wall to trench wall. Pay Limits shall not exceed 12" max. as shown on detail. Additional encasement shall be incidental.

** Min 2" HMAC Type "D" for trench repair in Local / Residential streets.

** Min 3" HMAC Type "C" for trench repair in Collector / Arterial streets.

PROPERTY OF SAN ANTONIO WATER SYSTEM, SAN ANTONIO, TEXAS	SANITARY SEWER PIPE LAID IN TRENCH	APPROVED MARCH 2008	REVISED APRIL 2014
		DD-804-01	SHEET 1 of 1

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ Engineering & Surveying
Texas Registered Engineering Firm F-3120
Texas Registered Surveying Firm LS-100080-00
(210) 317-0400

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ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250130

UTILITY DETAILS AND NOTES

C5.10

DRG REFERENCE

DRAWN BY:
DESIGNED BY:

11/19/2024 1:11:30 PM

GRADING NOTES:

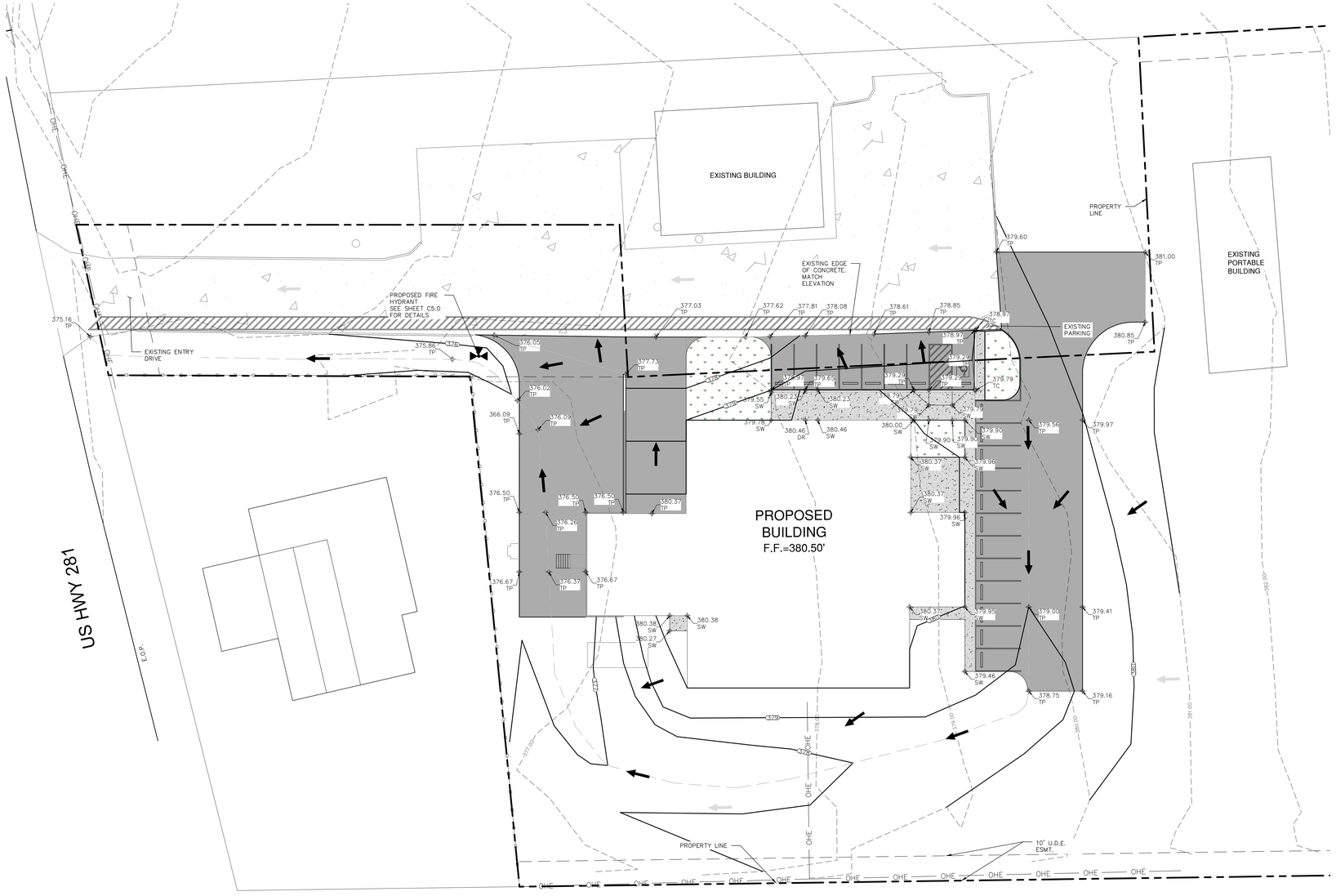
1. ALL MATERIALS AND PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOTE SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY, AND TXDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. SITE PREPARATION, GRADING, EXCAVATION, AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
4. ALL ELEVATIONS AND PROPOSED CONTOUR SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH IS TO BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS, AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECTS PLAN IF APPLICABLE. AT A MINIMUM, CONTRACTOR SHALL HYDROMULCH DISTURBED AREAS AND SOD DRAINAGE SWALES.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHED OFFSITE OR INTO EXISTING DRAINAGE SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH FOOT (0.10').
12. IN PROPOSED PAVING AREAS, IT IS INTENDED THAT THE MINIMUM GRADE IS 1%. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1% UNLESS SHOWN OTHERWISE.
13. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION OF ANY DAMAGE DONE TO EXISTING TREES, BUILDING, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS. (NO SEPARATE PAY ITEMS)
15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
16. UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO THE BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AT HIS OWN EXPENSE.
17. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM BUILDING FOUNDATIONS. THE CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
18. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT PROPER PERMIT.
20. CONTRACTOR IS CAUTIONED THAT ROCK BOULDERS MAY BE ENCOUNTERED AS EXPERIENCED ON OTHER PROJECTS IN THE AREA AND CONTRACTOR IS RESPONSIBLE FOR EXCAVATION/REMOVAL AT THEIR EXPENSE.

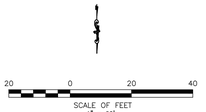
TRENCH SAFETY NOTE:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION & ELEVATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM UTILITY COMPANY RECORDS AND WHERE POSSIBLE, FIELD MEASUREMENTS. THE PROVIDED INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES & SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST EXACT FIELD LOCATIONS OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY RELOCATION OR DAMAGE TO UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT.





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LEGEND

- EXISTING ROADWAY
- EXISTING FENCE
- CONCRETE CURB
- PROPOSED FENCE
- 143 — EXISTING CONTOUR
- 145 — PROPOSED CONTOUR
- PROPOSED FLOW ARROW
- EXISTING FLOW ARROW
- × 144.86 — PROPOSED SPOT ELEVATION
- TP — PROPOSED TOP OF PAVEMENT
- ME — MATCH EXISTING
- SW — SIDEWALK
- DR — DOORWAY
- ST — STOOP
- PG — PROPOSED GRADE
- TC — TOP OF CURB

NOTE:
IN AREAS WHERE RAISED CURB IS CONSTRUCTED, TOP OF CURB (TC) ELEVATIONS ARE 6-INCHES HIGHER THAN TOP OF PAVEMENT (TP) ELEVATIONS.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ Engineering & Surveying
Texas Registered Engineering Firm F-3120
Texas Registered Surveying Firm 10018700
(210) 317-0400

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

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SITE DIMENSION PLAN

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PROJECT NO: 202420
DATE: 20241125

GRADING PLAN

C6.00

ORG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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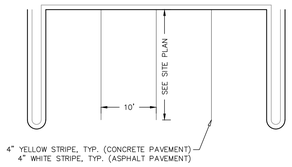
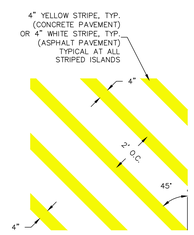
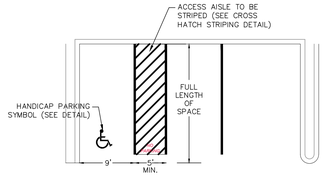


TYPICAL PARKING SPACES & PARKING STRIPES
NOT-TO-SCALE

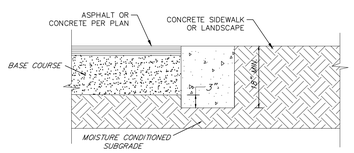


CROSS HATCH STRIPING DETAIL
NOT-TO-SCALE

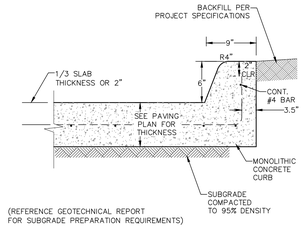


NOTE: THE WORDS "NO PARKING" MUST BE PAINTED ON ANY ACCESS AISLE ADJACENT TO ANY ACCESSIBLE PARKING SPACE. THE WORDS MUST BE PAINTED IN ALL CAPITAL LETTERS WITH A LETTER HEIGHT OF AT LEAST 12", AND A STROKE WIDTH OF AT LEAST TWO INCHES. THE WORDS SHALL BE CENTERED WITHIN EACH ACCESS AISLE ADJACENT TO THE PARKING SPACE.

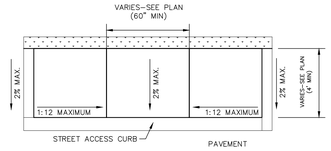
TYPICAL HANDICAP PARKING SPACE ACCESS AISLE
NOT-TO-SCALE



HEADER CURB DETAIL
NOT-TO-SCALE



MONOLITHIC CURB DETAIL
NOT-TO-SCALE
NOTE: REFERENCE GEOTECH REPORT FOR CONCRETE PAVEMENT SPECIFICATIONS.

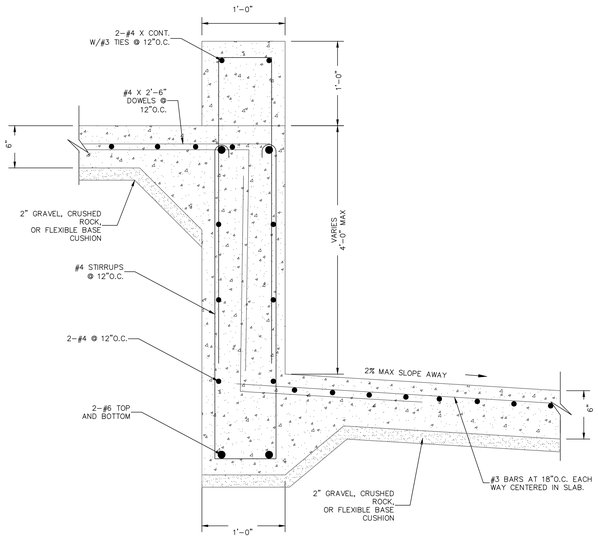


CROSS SLOPE ON LANDING MUST NOT EXCEED 1:50 SLOPE.

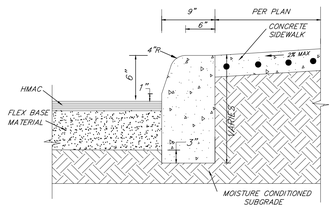
DOMES SHALL BE ARRANGED SO THAT WATER WILL NOT ACCUMULATE.

CURB RAMP NOTES:
1. RUNNING SLOPE SHALL NOT EXCEED 1:12 SLOPE AND CROSS SLOPE SHALL NOT EXCEED 2%. RAMP SURFACE SHOULD BE STABLE, FIRM AND SLIP RESISTANT. SCORE RAMP TREAD LINES AT 1/8" DEEP AND 2" APART FOR SPACING AND PAINT CONTRASTING COLOR. PROVIDE HEAVY TEXTURE BROOM FINISH.
2. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
3. WHEELCHAIR RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.
4. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6" X 6" – W2.9 X W2.9 WIRE MESH.

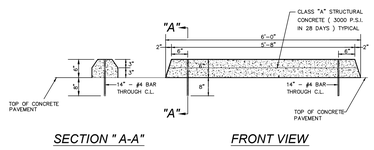
PERPENDICULAR CURB RAMP DETAIL
NOT-TO-SCALE



A *BEAM BETWEEN LOADING DOCK AND SALLY PORT DRIVE*
NOT-TO-SCALE



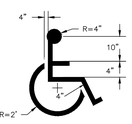
6" CONCRETE CURB
NOT-TO-SCALE



SECTION " A-A" *FRONT VIEW*

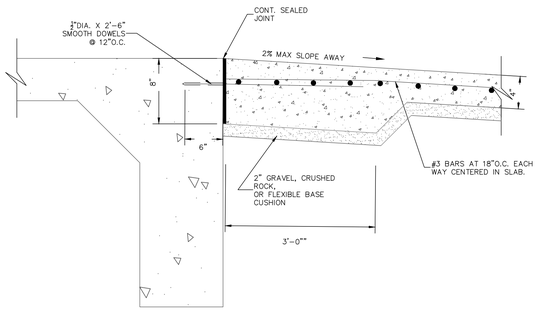
NOTE: REFERENCE OVERALL SITE PLAN FOR LOCATION OF WHEEL STOPS IN PARKING SPACES.

WHEELSTOP DETAIL
NOT-TO-SCALE

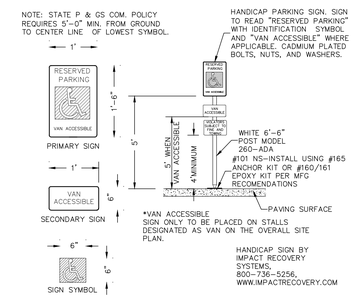


NOTE:
SYMBOL SHALL BE PAINTED IN CENTER OF PARKING STALL WITH 4" YELLOW STRIPE, TYP. (CONCRETE PAVEMENT) OR 4" WHITE STRIPE, TYP. (ASPHALT PAVEMENT)

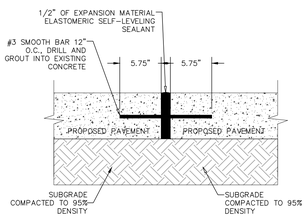
HANDICAP PARKING SYMBOL DETAIL
NOT-TO-SCALE



B *TYPICAL SIDEWALK TO BEAM AT DOOR DETAIL*
NOT-TO-SCALE



HANDICAP SIGN DETAIL
NOT-TO-SCALE



CONCRETE/CONCRETE JUNCTURE DETAIL
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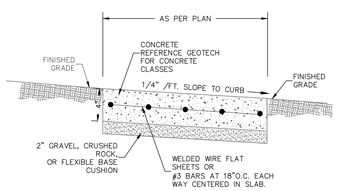

TYPICAL SIDEWALK DETAIL
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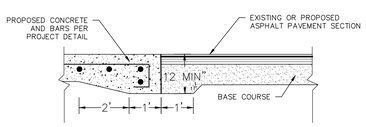

CONCRETE/ASPHALT JUNCTURE DETAIL
NOT-TO-SCALE

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ ENGINEERING, PLLC
Texas Registered Engineering Firm F-3155
Texas Registered Surveying Firm LSC-100
Texas Registered Architectural Firm BR-9400
830.281.6400

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ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250228

Civil Details

C6.10

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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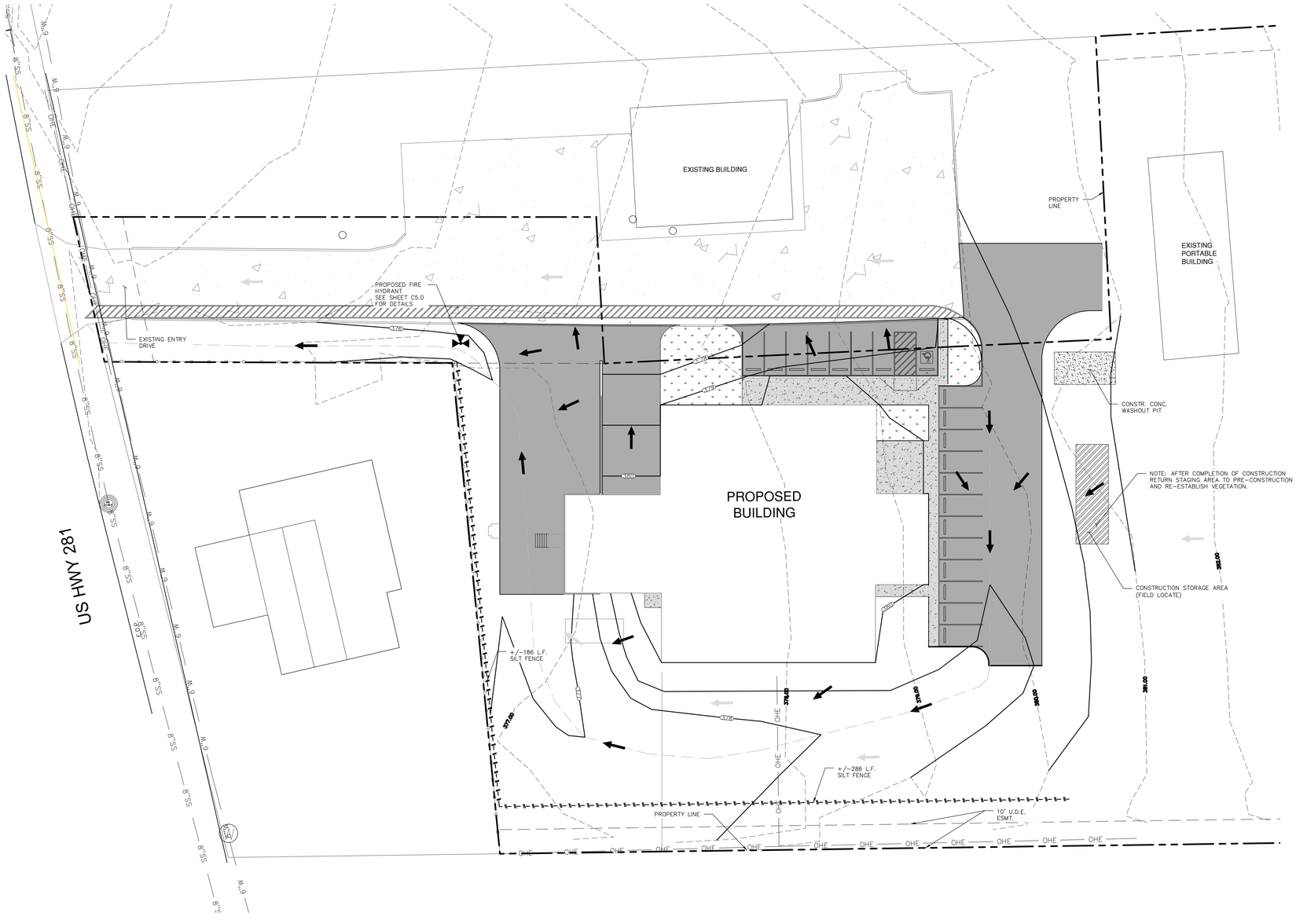

LEGEND

- RIGHT-OF-WAY LINE
- EXISTING FENCE
- EXISTING FLOW ARROW
- PROPOSED FLOW ARROW
- SILT FENCE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONSTRUCTION EQUIPMENT, VEHICLE & MATERIAL STORAGE
- CONCRETE WASH-OUT PIT
- PROPOSED FENCE

GENERAL NOTES:

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS, REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES FOR VISUAL CLARITY.
8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENTS, EMBANKMENT SLOPES, ETC WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.
10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGED ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
12. WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.
13. SHADED AREA DENOTED LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES.
14. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TXDOT RIGHT-OF-WAY WITH TXDOT.

NOTE:
CONTRACTOR SHALL BEGIN MEASURES TO ESTABLISH VEGETATION IMMEDIATELY AFTER CONSTRUCTION OF EARTHEN DRAIN SECTIONS, BAR DITCHES AND/OR ANY OTHER AREAS DISTURBED FROM CONSTRUCTION TO MITIGATE EROSION. CONTRACTOR SHALL USE HYDRO-MULCH SEEDING, SOD LINING, OR OTHER APPROVED METHODS.

NOTE: STATE LAW REQUIRES THE SUBMITTAL OF A NOTICE OF INTENT (NOI) TO TCEQ FOR FOR ALL CONSTRUCTION DISTURBANCES GREATER THAN 1 ACRE, AND ADDITIONAL MEASURES FOR PROJECT DISTURBANCES GREATER THAN 5 ACRES. THIS IS THE RESPONSIBILITY OF THE CONTRACTOR.

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ Engineering & Surveying
Texas Registered Engineering Firm F-3120
Texas Registered Surveying Firm 10194150
(210) 317-0400

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PROJECT NO: 202420
DATE: 20250130

EROSION CONTROL PLAN

C7.00

DRG REFERENCE

50% CD PACKAGE

DRAWN BY: Author
DESIGNED BY: Designer

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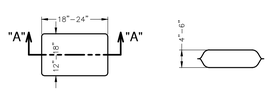


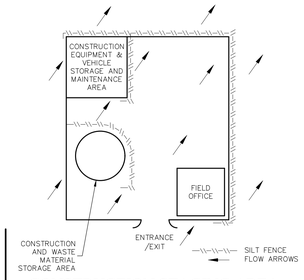
NOTES:
1. THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4 OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.

2. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER).

3. SAND SHALL NOT BE USED TO FILL THE FILTER BAGS.

GRAVEL FILTER BAG DETAIL

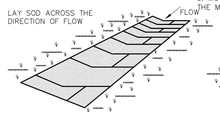
NOT–TO–SCALE

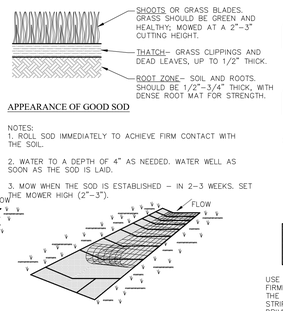


CONSTRUCTION STAGING AREA

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING – ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.



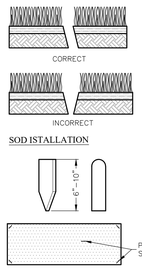


APPEARANCE OF GOOD SOD

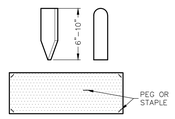
NOTES:
1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

3. MOW WHEN THE SOD IS ESTABLISHED – IN 2–3 WEEKS. SET THE MOWER HIGH (2"–3").



SOD ISTALLATION



USE PEGS OR STAPLES TO FASTEN SOD FIRMLY – AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3–4 FEET IF THE STRIPS ARE LONG. WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH WITH THE GROUND.

MATERIALS

1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE SHOOT GROWTH AND THATCH.

2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.

3. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.

4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

SITE PREPARATION

1. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

2. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

3. FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

1. SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).

2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

GENERAL INSTALLATION (VA. DEPT. OF CONSERVATION, 1992)

1. SOD SHOULD NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER. SOD ALSO SHOULD NOT BE LAID ON SOIL SURFACES THAT ARE FROZEN.

2. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND REDUCE ROOT BURNING AND DIEBACK.

3. THE FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS (SEE FIGURE ABOVE).

4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHOULD BE LAID WITH STAGGERED JOINTS AND SECURED BY STAPLING OR OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON CONTOUR).

5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL.

6. AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS THOROUGHLY WET.

7. UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4 INCHES.

8. THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY ROOTED, USUALLY 2–3 WEEKS. NOT MORE THAN ONE THIRD OF THE GRASS LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

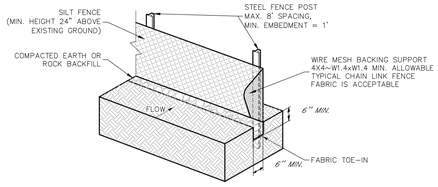
INSPECTION AND MAINTENANCE GUIDELINES

1. SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE.

2. DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS SOON AS PRACTICAL.

SOD INSTALLATION DETAIL

NOT–TO–SCALE



ISOMETRIC PLAN VIEW

SILT FENCE

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE. WHEN PROPERLY USED, SILT FENCES CAN BE HIGHLY EFFECTIVE AT CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER–BORN SEDIMENT FROM UNPROTECTED AREAS OF A LIMITED EXTENT. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION, CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.

SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY ANCHORED TO THE GROUND AT THE END OF THE DAY. SILT FENCES ON THE PERIMETER OF THE SITE OR AROUND DRAINAGE WAYS SHOULD NOT BE MOVED AT ANY TIME.

MATERIALS

1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN OR NON–WOVEN FABRIC. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD; MULLEN BURST STRENGTH EXCEEDING 190 LB/IN2, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.

2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y–BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT, AND BRINDELL HARDNESS EXCEEDING 140.

3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" x 4" WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 1–FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER. WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.

2. LAY OUT FENCING DOWN–SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS ¼ ACRE/100 FEET OF FENCE.

3. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN–SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3–FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

COMMON TROUBLE POINTS

1. FENCE NOT INSTALLED ALONG THE CONTOUR CAUSING WATER TO CONCENTRATE AND FLOW OVER THE FENCE.

2. FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER FENCE).

3. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND SIDES).

4. FENCE TREATING TOO LARGE AN AREA, OR EXCESSIVE CHANNEL FLOW (RUNOFF OVERTOPS OR COLLAPSES FENCE).

INSPECTION AND MAINTENANCE GUIDELINES

1. INSPECT ALL FENCING WEEKLY, AND AFTER RAINFALL.

2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

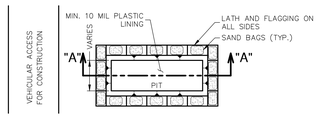
3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

4. REPLACE OR REPAIR SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.

5. WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL.

SILT FENCE DETAIL

NOT–TO–SCALE



SECTION "A-A"

GENERAL NOTES

1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.

2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.

3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.

4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES OR WATER BODIES.

5. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

MATERIALS

PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

MAINTENANCE

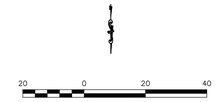
1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF.

2. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.

3. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

CONCRETE TRUCK WASHOUT PIT DETAIL

NOT–TO–SCALE



DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

RAKOWITZ Engineering & Surveying
Texas Registered Engineering Firm F-3120
Texas Registered Surveying Firm LS-100180
(210) 317-0400

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PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20241125

EROSION CONTROL DETAILS

C7.10

ORG REFERENCE

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13300 OLD BLANCO RD.
SUITE 175
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PROJECT NO: 202420
DATE: 20250306

SITE PLAN

A0.01

DRG REFERENCE

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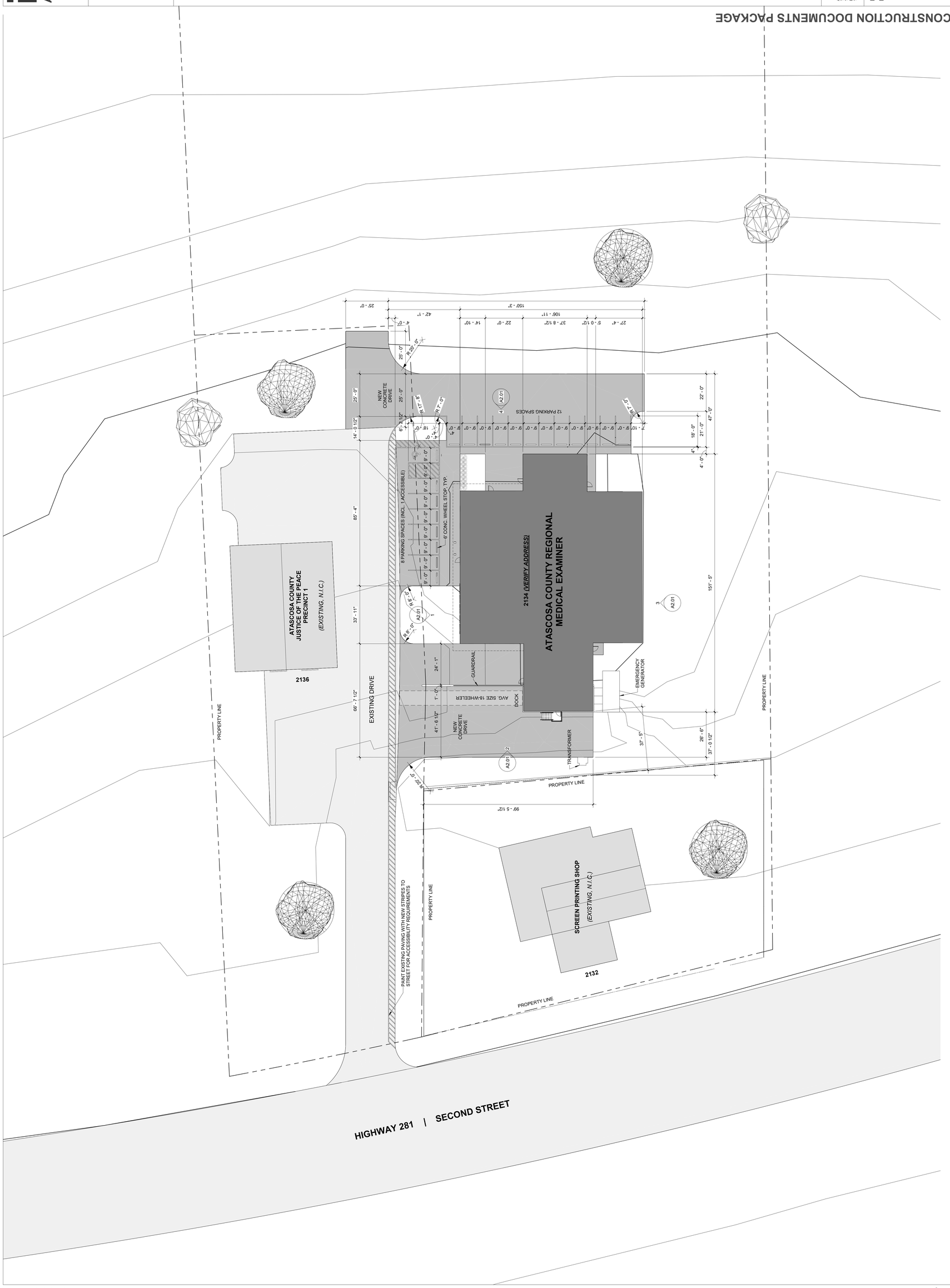

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DESIGNED BY: Designer

3/4/2025 10:25:39 AM

3/5/2025 7:17:37 AM

GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN FROM THE NOMINAL FINISH FACE OF EXTERIOR WALLS, FACE OF METAL STUDS, OR COLUMN GRID CENTERLINES, UNLESS NOTED OTHERWISE.
2. PROVIDE SOLID WOOD BLOCKING (MINIMUM 2" X 8") IN STUD WALLS TO ADEQUATELY SUPPORT ALL WALL MOUNTED ACCESSORIES OR EQUIPMENT. ALL BLOCKING TO MEET CODE, INCLUDING LOADING REQUIREMENTS OF EQUIPMENT SUPPORTED.
3. REFER TO ENLARGED SCALE PLANS FOR ADDITIONAL NOTES AND EQUIPMENT REFERENCES; SEE REFERENCE FLOOR PLANS.
4. RUN EXTERIOR WALL INSULATION SYSTEM FULL HEIGHT, FLOOR TO BOTTOM OF ROOF PANELS.
5. SEE BUILDING SECTIONS FOR MORE WALL SECTION REFERENCES
6. REFER TO LAB DRAWINGS FOR EQUIPMENT ON THE LAB SIDE OF THE STINK WALL

REFERENCE NOTES

01 PREMANUFACTURED GALVANIZED STEEL LOADING DOCK STAIR; BASIS OF DESIGN: LAPEYRE STAIR
02 OFFICE FURNITURE NOT IN CONTRACT
03 WASHER AND DRYER BY ALLOWANCE
04 24" x 96" x 34" TALL STAINLESS STEEL TABLE
05 ACCESSIBLE SHOWER COMPARTMENT WITH GRAB BARS AND FOLDING SEAT
06 BUILT-IN BENCH; SEE ENLARGED PLAN
07 BUILT-IN ACCESSIBLE BENCH; SEE ENLARGED PLAN
08 24" WIDE LOCKERS
09 MOP SINK; RE: PLUMBING
10 ACCESSIBLE HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER; RE: PLUMBING
11 FILE CABINETS
12 BULLET RESISTANT TRANSACTION WINDOW
13 P.LAM. COUNTERTOP WORK SURFACE WITH BASE CABINETS
14 P.LAM. COUNTERTOP, BASE CABINETS, AND UPPER CABINETS WITH SINK
15 REFRIGERATOR
16 PRINTER / SCANNER
17 ROOF ACCESS SHIP LADDER
18 LAB EQUIPMENT, MILLWORK, AND FURNISHINGS; RE: LAB DRAWINGS AND SPECS.
19 COOLER; RE: LAB DRAWINGS AND SPECS., MECHANICAL, ELECTRICAL
20 LODOX; RE: LAB DRAWINGS AND SPECS.
21 CONTROL STATION; RE: LAB DRAWINGS AND SPECS.
22 PASS-THROUGH DEVICE; RE: LAB DRAWINGS AND SPECS.
23 GUARD RAIL ON GRADE BEAM; RE: CIVIL (A/C6.10)
24 TOILET ACCESSORIES; SEE ENLARGED PLANS
25 FIRE EXTINGUISHER AND CABINET
26 PLANTS BY ALLOWANCE
27 PARKING; SEE SITE PLAN, CIVIL
28 6' x 20' PRE-ENGINEERED CANOPY ABOVE DOOR; RE: STRUCTURAL
29 5' x 5' PRE-ENGINEERED CANOPY ABOVE DOOR; RE: STRUCTURAL

ROOM FINISH KEY

OFFICE < ROOM NAME
131 < ROOM NUMBER
5 - A - 2 < ROOM FINISH CODE — (1ST NO.) - FLOOR / BASE; (2ND NO.) - WALLS; (3RD NO.) - CEILINGS

FLOOR / BASE
1. SEALED CONCRETE / RUBBER BASE (NO BASE AT PATIO)
2. LUXURY VINYL TILE (LVT) / 6" HIGH WOOD BASE, STAINED
3. EPOXY TERRAZZO / EPOXY TERRAZZO BASE
4. SEAMLESS WELDED VINYL / RUBBER BASE
5. SEAMLESS WELDED VINYL / SEAMLESS WELDED VINYL
6. CERAMIC TILE / CERAMIC TILE COVE BASE

WALLS
A. GYPSUM BOARD, PAINTED
B. GYPSUM BOARD, EPOXY PAINTED
C. EPOXY RESIN WALL SYSTEM
D. ALUMINUM STOREFRONT, CLEAR ANODIZED FINISH
E. CERAMIC TILE, FULL HEIGHT

CEILINGS
1. NO CEILING; NO PAINT
2. NO CEILING; PAINT DECK AND STRUCTURE BLACK
3. 24" x 24" ACOUSTICAL TILE, IN METAL SUSPENSION SYSTEM
4. GYPSUM BOARD, PAINTED, ON METAL SUSPENSION SYSTEM
5. GYPSUM BOARD, EPOXY PAINTED, ON METAL SUSPENSION SYSTEM

NORTH

1 A1.01 FLOOR PLAN
3/16" = 1'-0"

PLAN LEGEND

REFER TO ROOM FINISH KEY FOR ROOM TAG LEGEND

- METAL STUD PARTITION WITH 5/8" GYP.BD., REF. INTERIOR PARTITION TYPES
- EXTERIOR METAL STUD WALL WITH STONE VENEER WAINSCOT AND METAL PANEL VENEER ABOVE; 5/8" GYP.BD. INTERIOR FINISH
- 000 DOOR; REF. DOOR SCHEDULE
- A WINDOW; REF. WINDOW SCHEDULE
- A INTERIOR PARTITION TYPE MARK, REF. INTERIOR PARTITION TYPES, SHEET A4.01
- 01 REFERENCE NOTE / KEYED NOTE
- "STINK WALL"; 1-HOUR FIRE-RATED
- LEAD SHIELDED WALLS, DOOR, AND WINDOW
- SHEET METAL REINFORCED WALL (FOR SECURITY)
- METAL MESH REINFORCED WALL (FOR SECURITY)

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DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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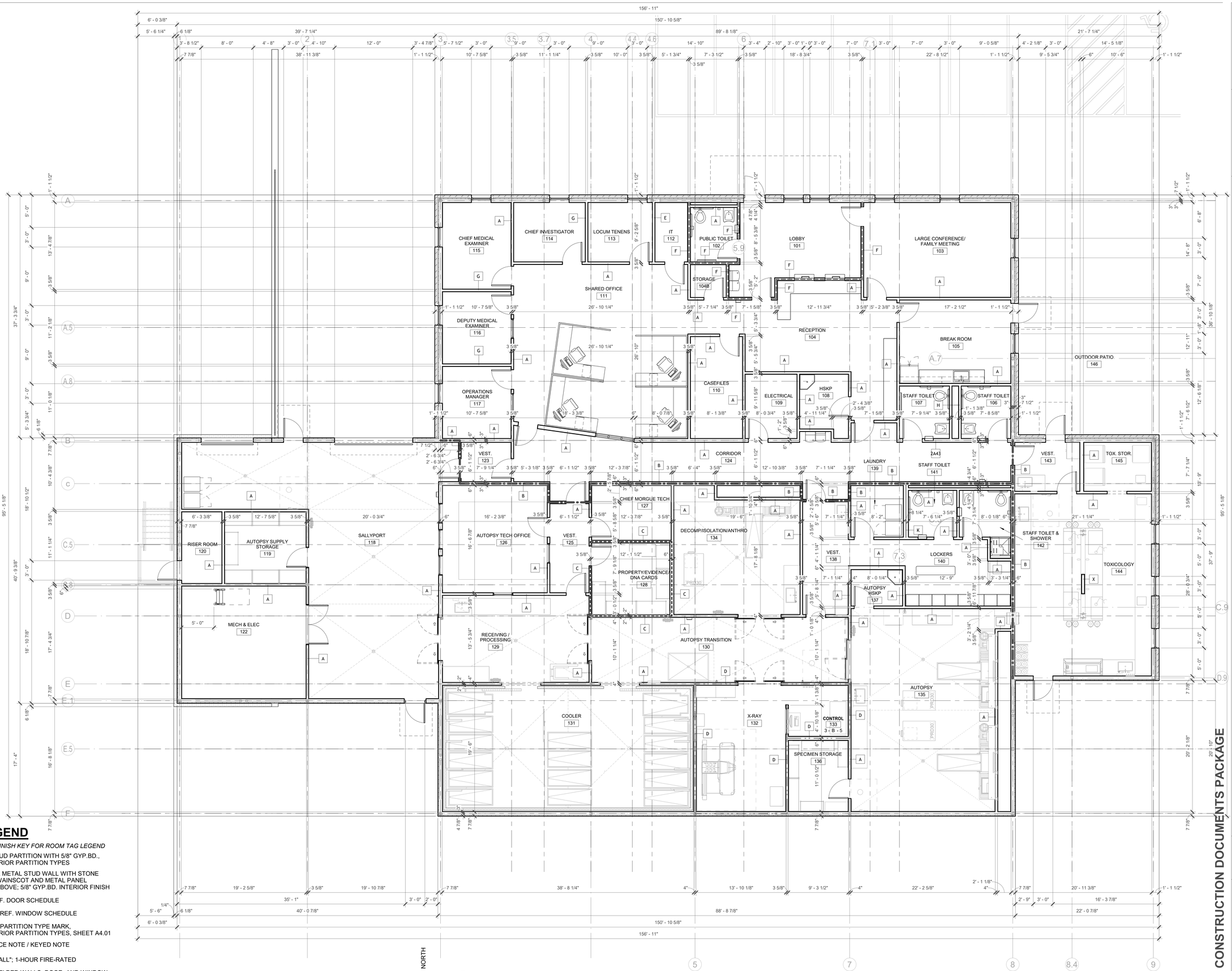
PROJECT NO: 202420
DATE: 20250306

FLOOR PLAN - REFERENCE

A1.01

DRG REFERENCE

3/5/2025 7:25:58 AM



PLAN LEGEND

REFER TO ROOM FINISH KEY FOR ROOM TAG LEGEND

- METAL STUD PARTITION WITH 5/8" GYP.BD., REF. INTERIOR PARTITION TYPES
- EXTERIOR METAL STUD WALL WITH STONE VENEER WAINSCOT AND METAL PANEL VENEER ABOVE; 5/8" GYP.BD. INTERIOR FINISH
- 000 — DOOR; REF. DOOR SCHEDULE
- A — WINDOW; REF. WINDOW SCHEDULE
- A — INTERIOR PARTITION TYPE MARK, REF. INTERIOR PARTITION TYPES, SHEET A4.01
- 01 — REFERENCE NOTE / KEYED NOTE
- "STINK WALL"; 1-HOUR FIRE-RATED
- LEAD SHIELDED WALLS, DOOR, AND WINDOW
- SHEET METAL REINFORCED WALL (FOR SECURITY)
- METAL MESH REINFORCED WALL (FOR SECURITY)

NORTH

1 / A1.02 FLOOR PLAN
3/16" = 1'-0"

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DESIGNED BY: Designer

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PROJECT NO: 202420
DATE: 20250306

FLOOR PLAN - DIMENSIONED

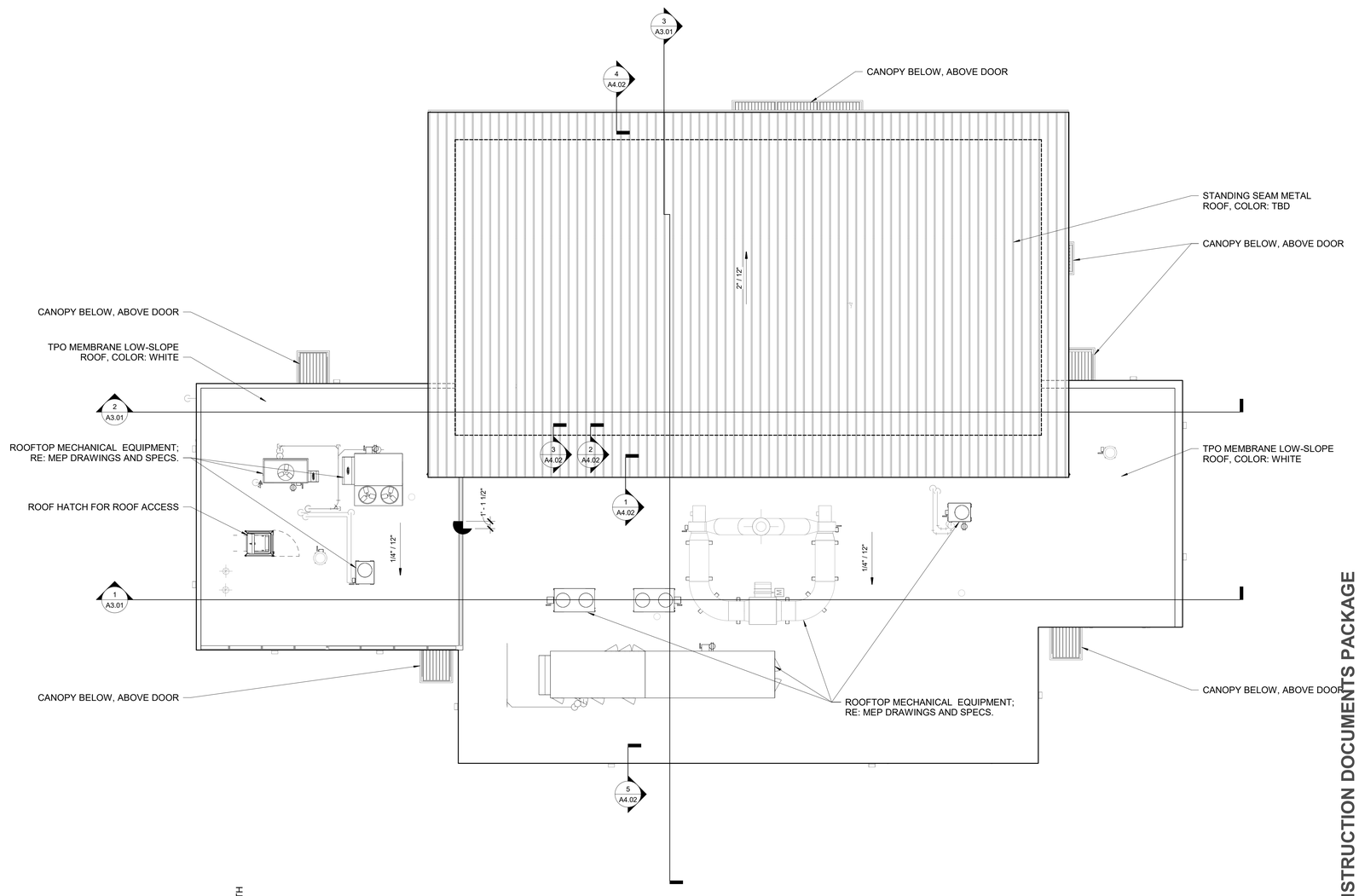
A1.02

DRG REFERENCE

3/5/2025 7:33:52 AM

GENERAL NOTES

1. REFER TO SPECIFICATION SECTION 13122 FOR ROOF CURBS. ROOF CURBS (TO MATCH ROOFING PROFILE) ARE TO BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR. THE MECHANICAL CONNECTIONS TO THE CURBS ARE TO BE BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR IS TO COORDINATE THE EXACT SIZE OF THE ROOF CURB SIZE WITH THE ROOFING CONTRACTOR.
2. ALL ROOF CURB LOCATIONS, SIZES AND QUANTITIES ARE TO BE COORDINATED WITH THE MECHANICAL PLANS.
3. ALL ROOF JACKS AND ANY OTHER PENETRATIONS THROUGH THE ROOF ARE TO BE FURNISHED AND INSTALLED BY THE METAL ROOFING CONTRACTOR. LOCATIONS FOR THE PENETRATIONS ARE TO BE COORDINATED WITH THE VARIOUS TRADES.
4. SEE MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL MECHANICAL AND ELECTRICAL EQUIPMENT.



NORTH

1 A1.03 ROOF PLAN
1/8" = 1'-0"

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PROJECT NO: 202420
DATE: 20250306

ROOF PLAN

A1.03

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

3/5/2025 8:43:29 AM

LEGEND

- 2 x 2 LAY-IN ACOUSTIC CEILING TILE
- GYPSUM BOARD CEILING
- NO CEILING
- NO CEILING

NORTH

1 / A1.10 REFLECTED CEILING PLAN
3/16" = 1'-0"

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DESIGNED BY: Designer

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
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PROJECT NO: 202420
DATE: 20250306

REFLECTED CEILING PLAN

A1.10

DRG REFERENCE

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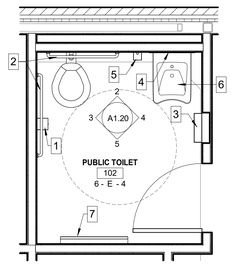
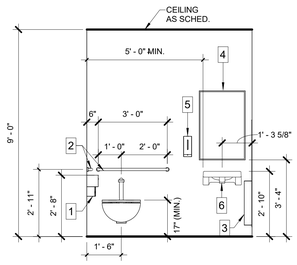
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

REFERENCE NOTES

1. SURFACE MOUNTED TOILET TISSUE DISPENSER
2. GRAB BAR - TWO BAR WHEELCHAIR TOILET COMPARTMENT 42" SIDE & 36" REAR - MOUNT TOP AT 2'-11" A.F.F.
3. PAPER TOWEL DISPENSER
4. 24"W x 36"H STAINLESS STEEL FRAME MIRROR (MOUNT 3'-4" A.F.F. TO BOTTOM OF REFLECTIVE EDGE)
5. SOAP DISPENSER
6. LAVATORY
7. WALL-MOUNTED BABY-CHANGING STATION



1 A1.20 ENLARGED PLAN
3/8" = 1'-0"



2 A1.20 RESTROOM ELEVATION
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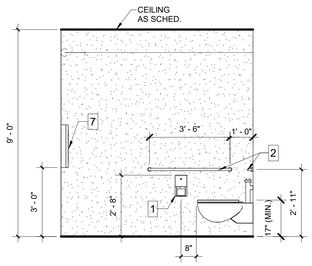

3 A1.20 RESTROOM ELEVATION
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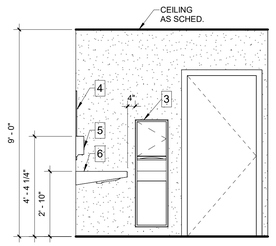

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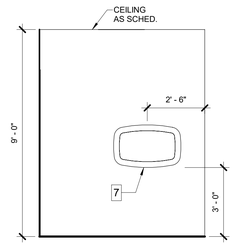

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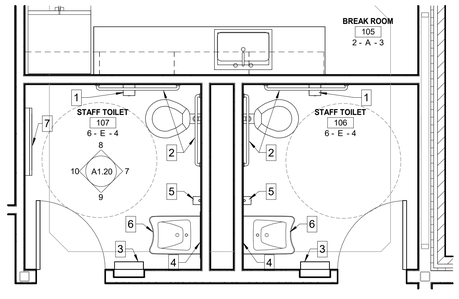

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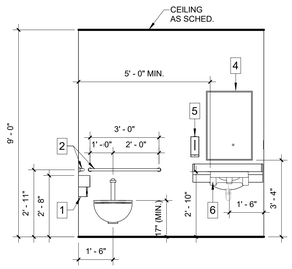
3/8" = 1'-0"



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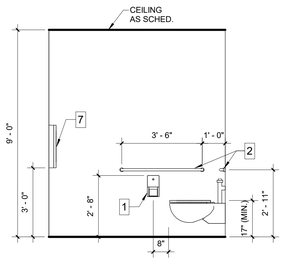

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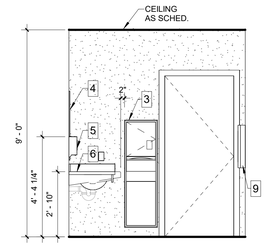

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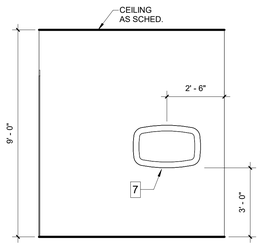

10 A1.20 RESTROOM ELEVATION
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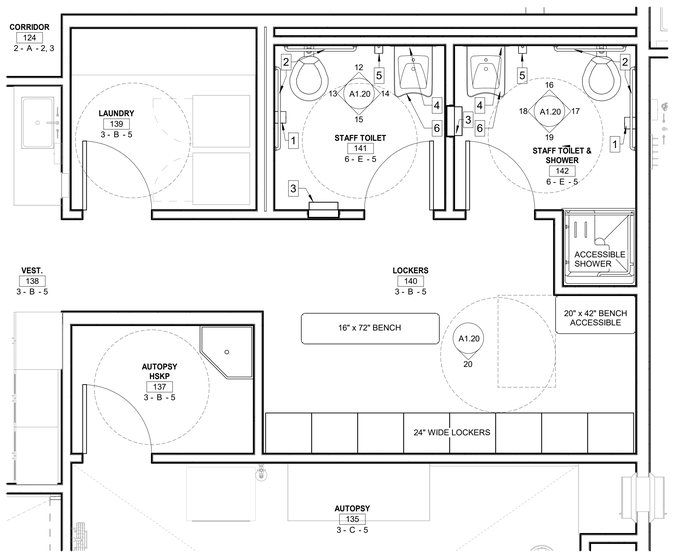

11 A1.20 ENLARGED PLAN
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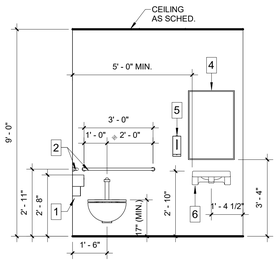

12 A1.20 RESTROOM ELEVATION
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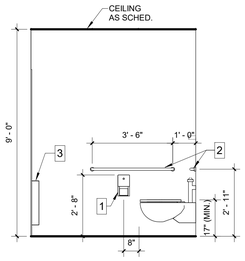

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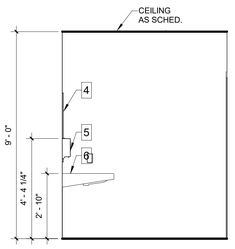

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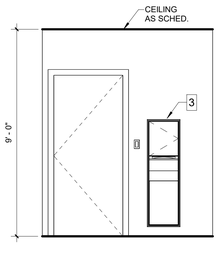

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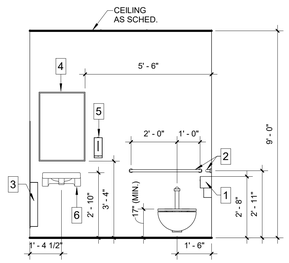

16 A1.20 RESTROOM ELEVATION
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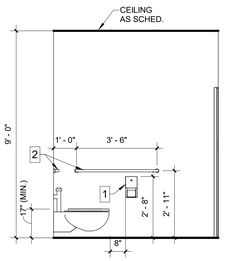

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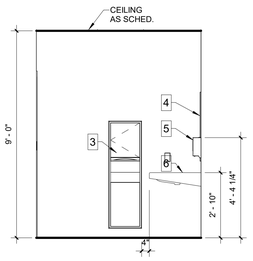

18 A1.20 RESTROOM ELEVATION
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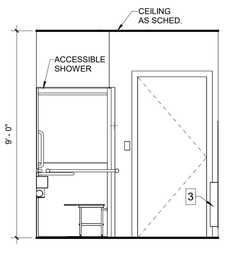

19 A1.20 RESTROOM ELEVATION
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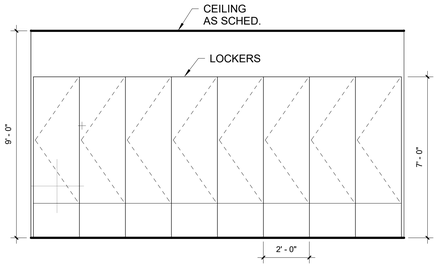

20 A1.20 LOCKERS ELEVATION
3/8" = 1'-0"

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PROJECT NO: 202420
DATE: 20250306

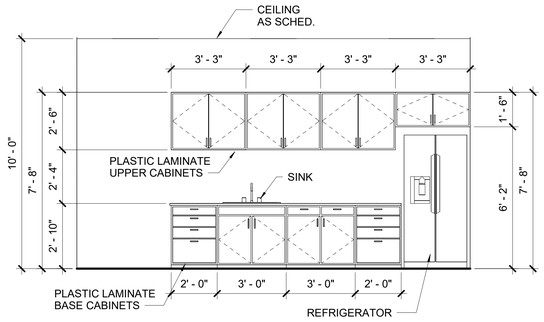
ENLARGED PLANS, INTERIOR ELEVATIONS

A1.20

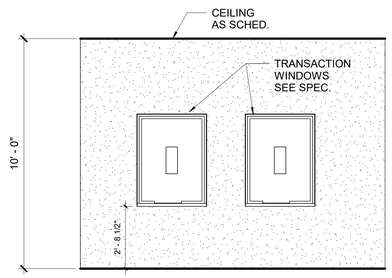
DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

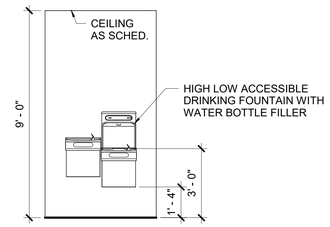
3/5/2025 7:41:49 AM



1 A1.21 BREAKROOM CABINET ELEVATION
3/8" = 1'-0"



2 A1.21 LOBBY ELEVATION
3/8" = 1'-0"



3 A1.21 WATER FOUNTAIN CORRIDOR & LOBBY
3/8" = 1'-0"

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PROJECT NO: 202420
DATE: 20250306

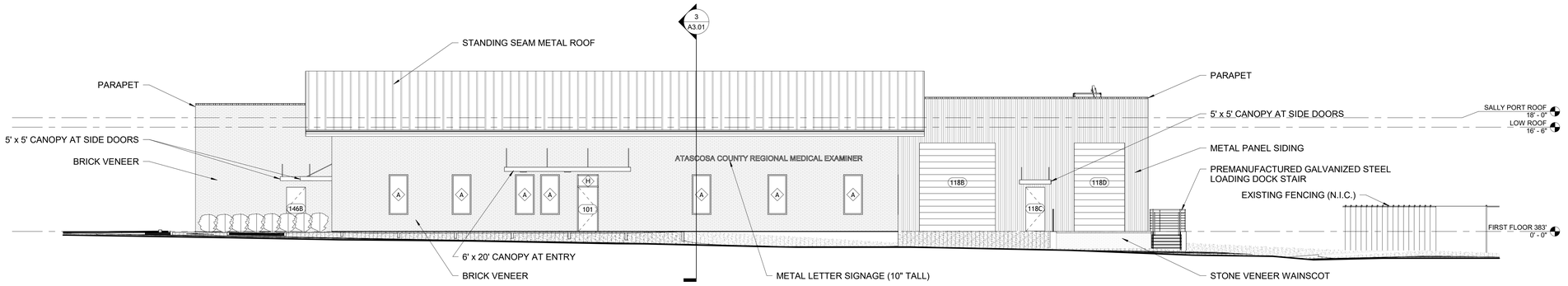
ENLARGED PLANS, INTERIOR ELEVATIONS

A1.21

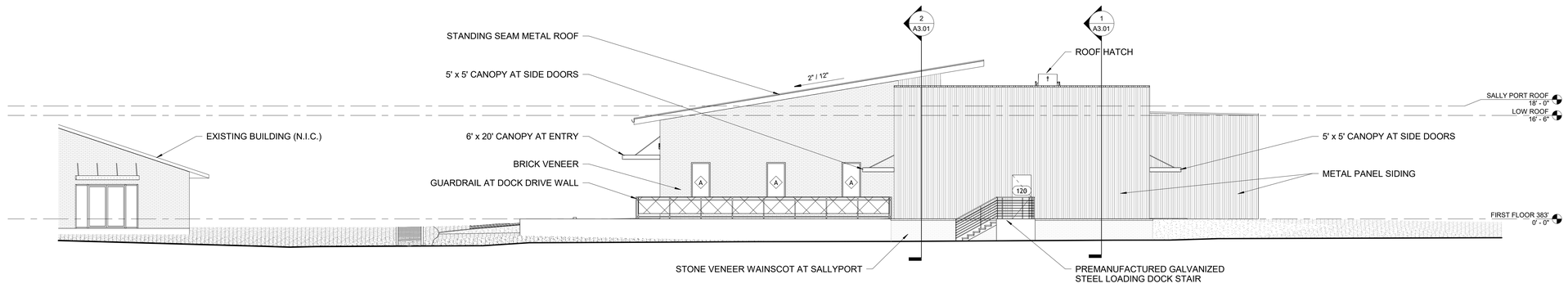
DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

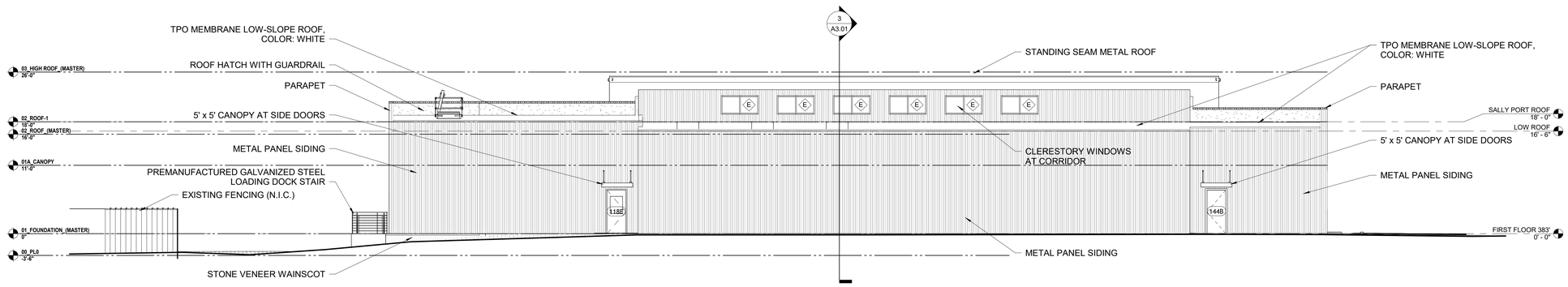
3/5/2025 7:15:51 AM



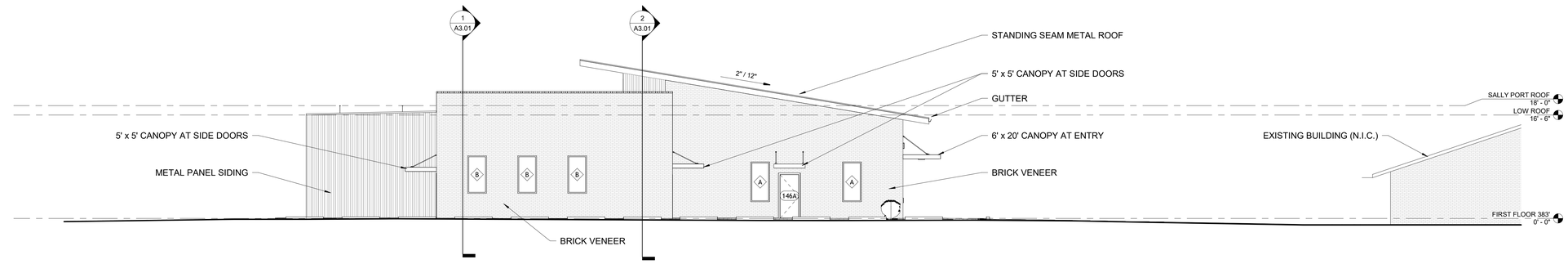
1 A2.01 FRONT (NORTH) ELEVATION
1/8" = 1'-0"



2 A2.01 SALLYPORT (WEST) ELEVATION
1/8" = 1'-0"



3 A2.01 REAR (SOUTH) ELEVATION
1/8" = 1'-0"



4 A2.01 TOXICOLOGY (EAST) ELEVATION
1/8" = 1'-0"

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DESIGNED BY: Designer

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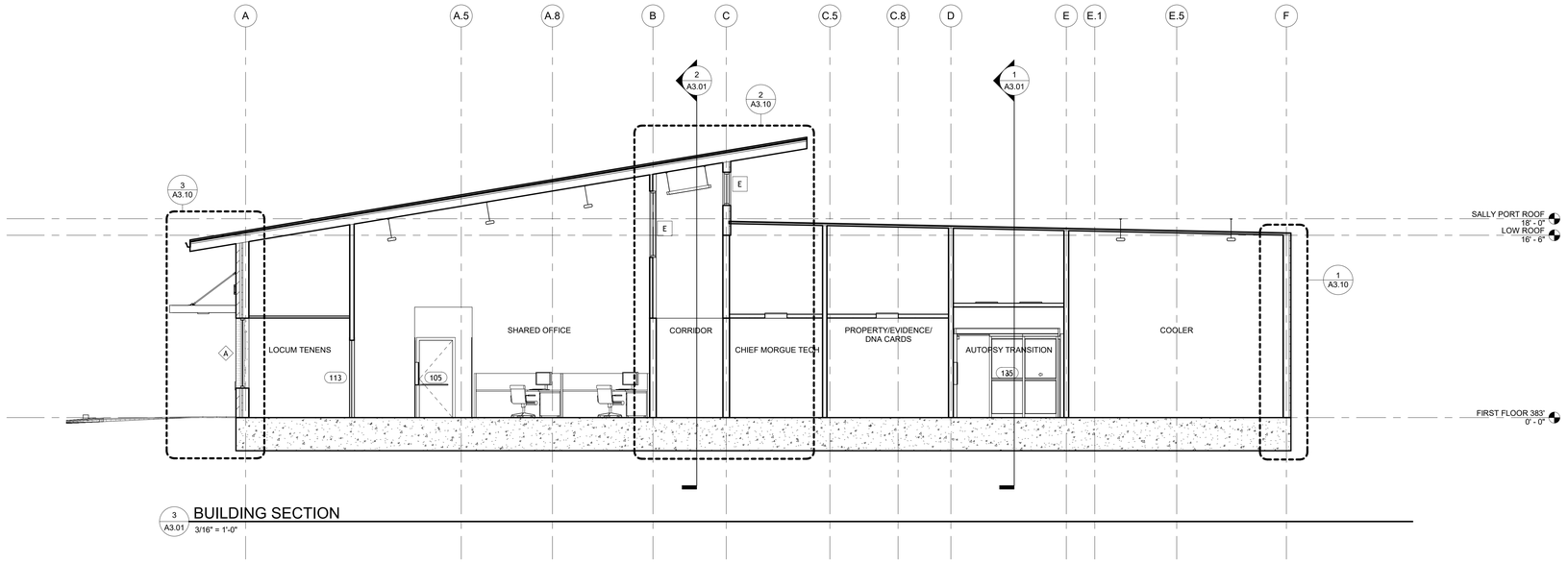
PROJECT NO: 202420
DATE: 20250306

EXTERIOR ELEVATIONS

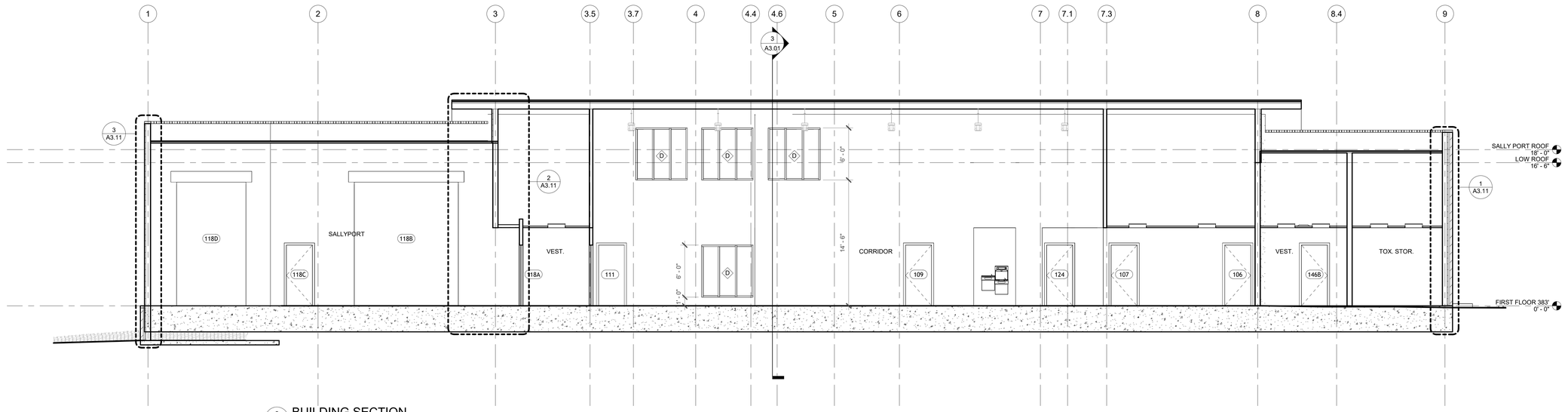
A2.01

DRG REFERENCE

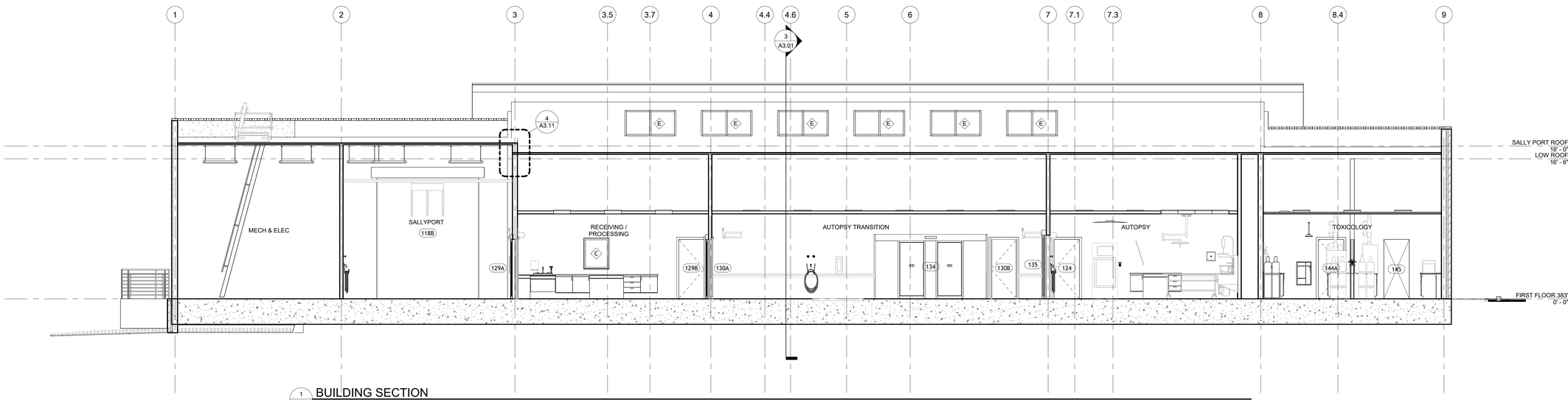
3/5/2025 7:44:38 AM



3 A3.01 BUILDING SECTION
3/16" = 1'-0"



2 A3.01 BUILDING SECTION
3/16" = 1'-0"



1 A3.01 BUILDING SECTION
3/16" = 1'-0"

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DESIGNED BY: Designer

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SUITE 175
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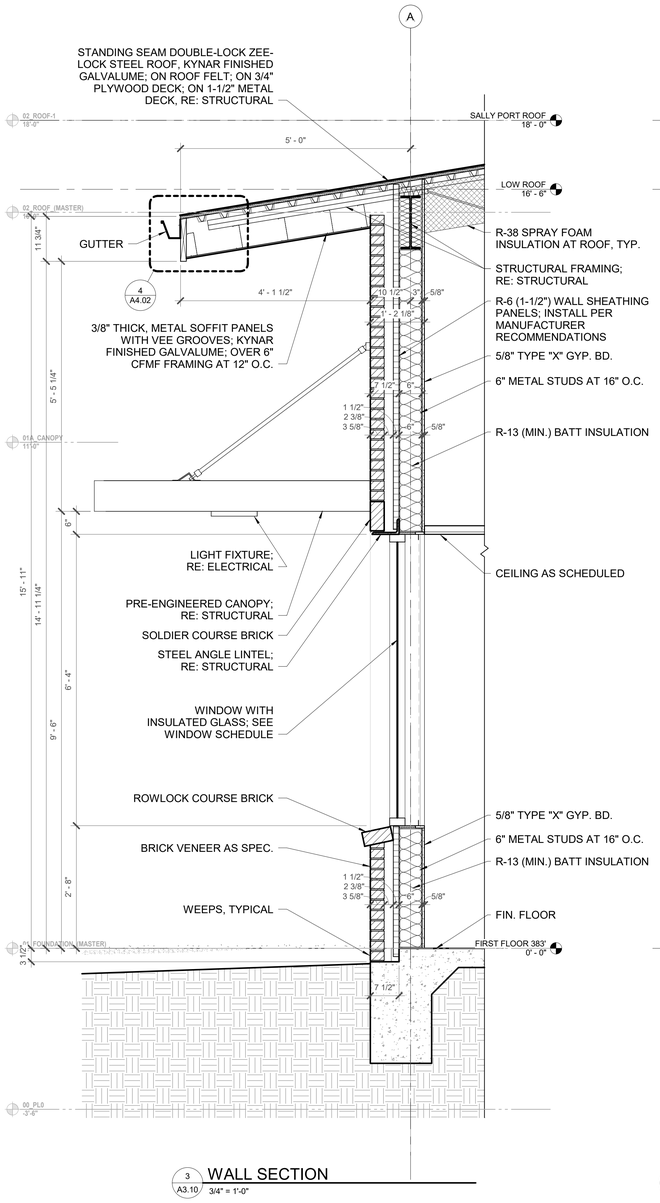
PROJECT NO: 202420
DATE: 20250306

BUILDING SECTIONS

A3.01

DRG REFERENCE

3/5/2025 9:53:54 AM



3 A3.10 WALL SECTION 3/4" = 1'-0"

2 A3.10 WALL SECTION 3/4" = 1'-0"

1 A3.10 WALL SECTION 3/4" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

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SUITE 175
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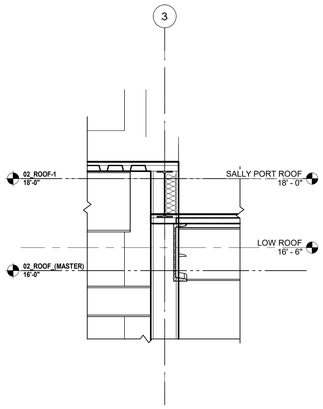
PROJECT NO: 202420
DATE: 20250306

WALL SECTIONS

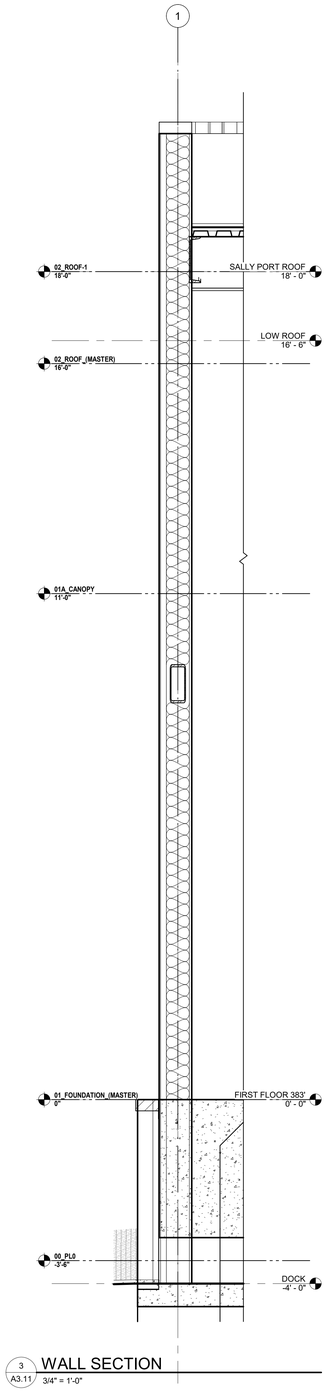
A3.10

DRG REFERENCE

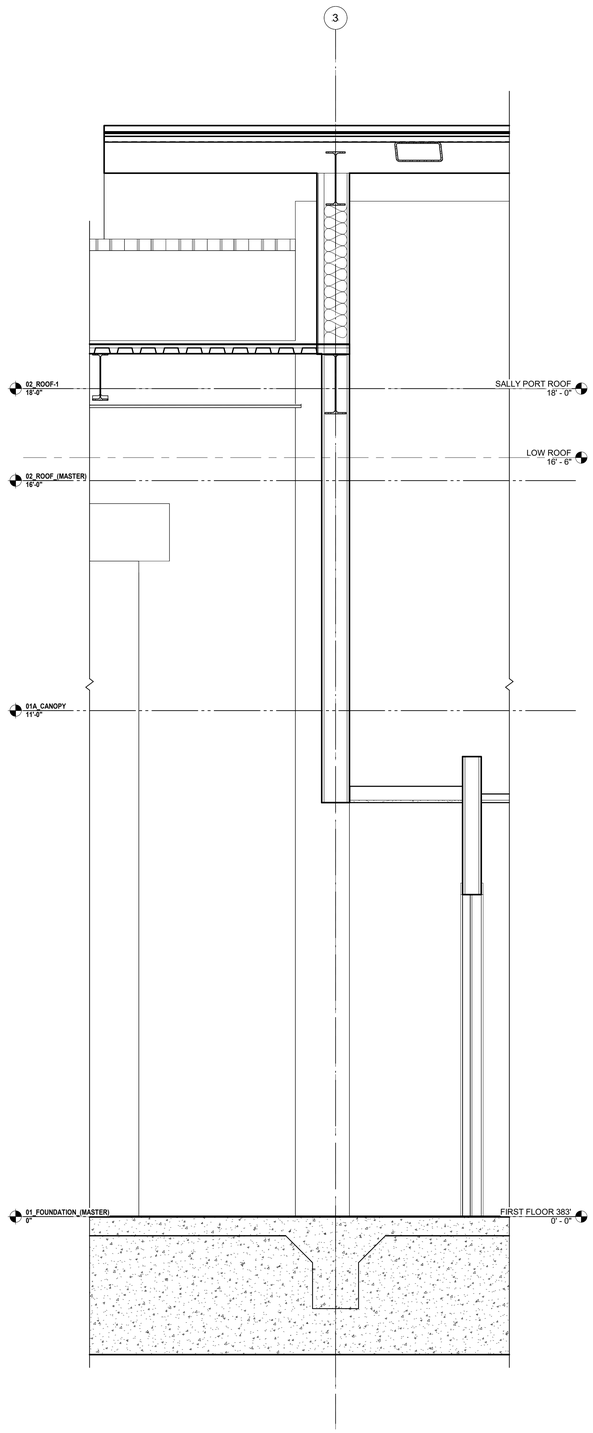
3/5/2025 9:55:38 AM



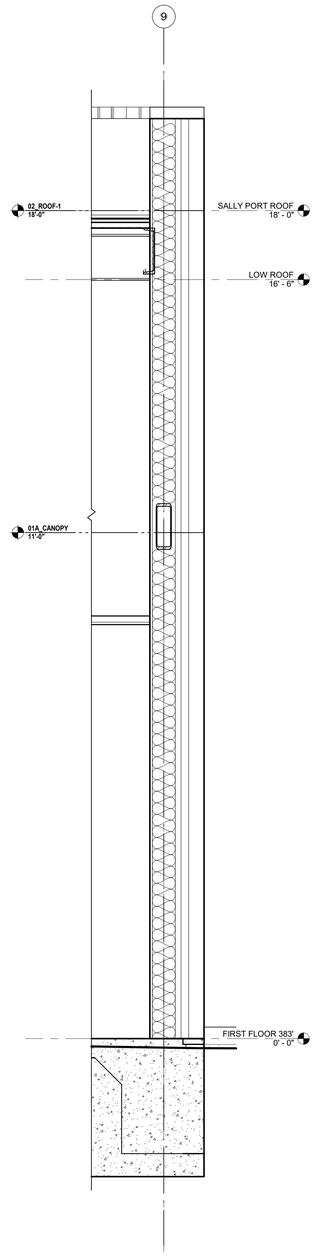
4 A3.11 WALL SECTION
3/4" = 1'-0"



3 A3.11 WALL SECTION
3/4" = 1'-0"



2 A3.11 WALL SECTION
3/4" = 1'-0"



1 A3.11 WALL SECTION
3/4" = 1'-0"

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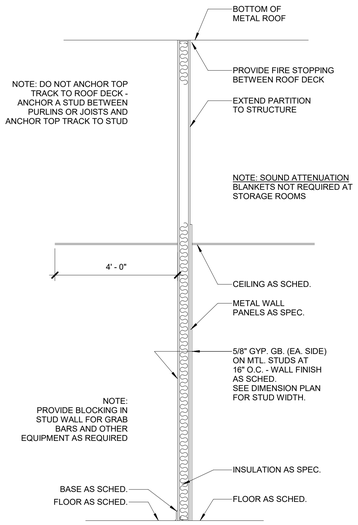
PROJECT NO: 202420
DATE: 20250306

WALL SECTIONS

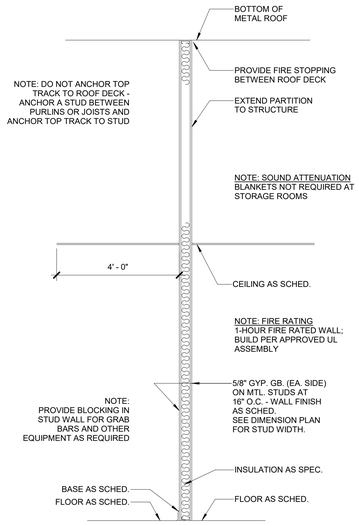
A3.11

DRG REFERENCE

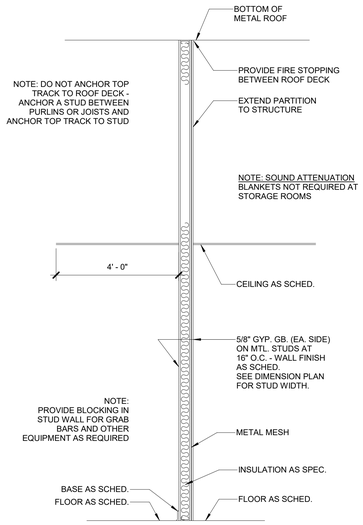
DRAWN BY: Author
DESIGNED BY: Designer



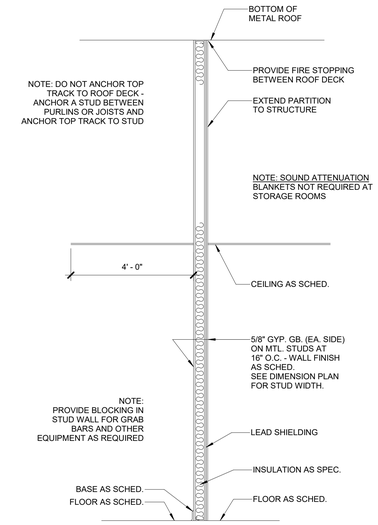
'A'



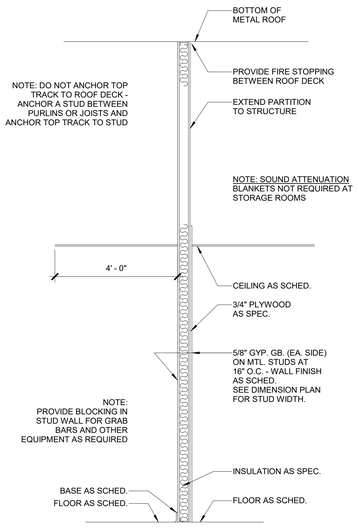
'B'
STINK WALL



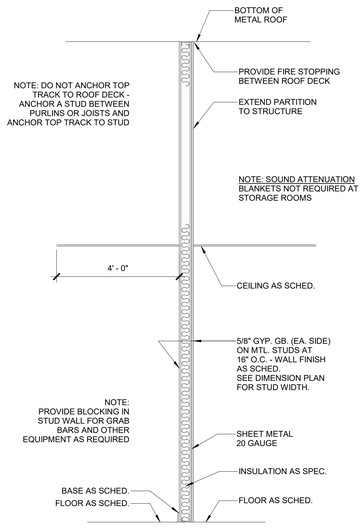
'C'



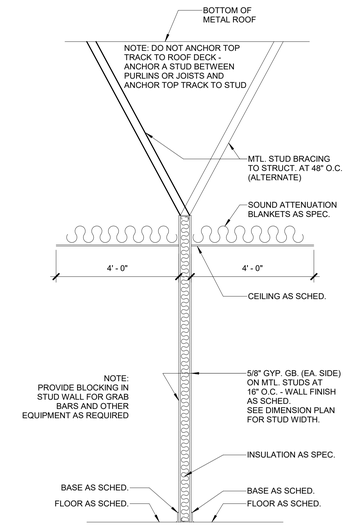
'D'



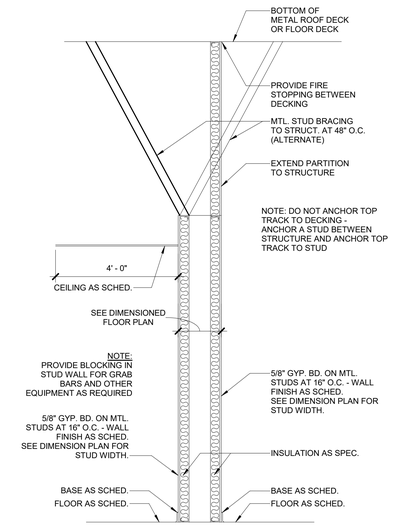
'E'



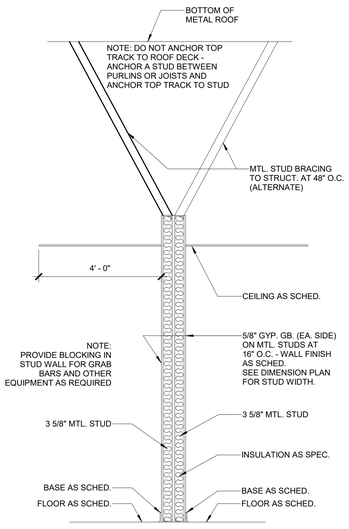
'F'



'G'



'H'



'K'

1 A4.01 PARTITION TYPES
1/2" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

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PROJECT NO: 202420
DATE: 20250306

PARTITION TYPES

A4.01

DRG REFERENCE

3/5/2025 9:52:01 AM

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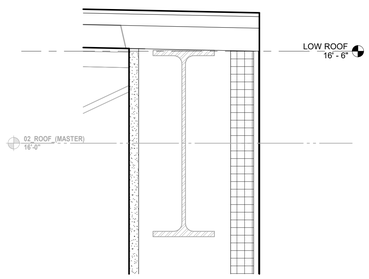
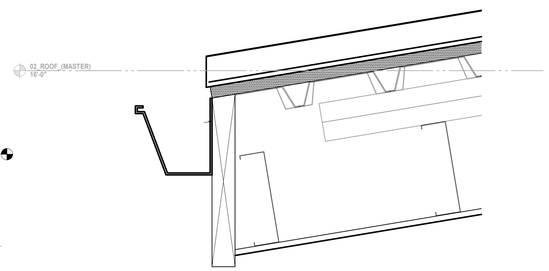
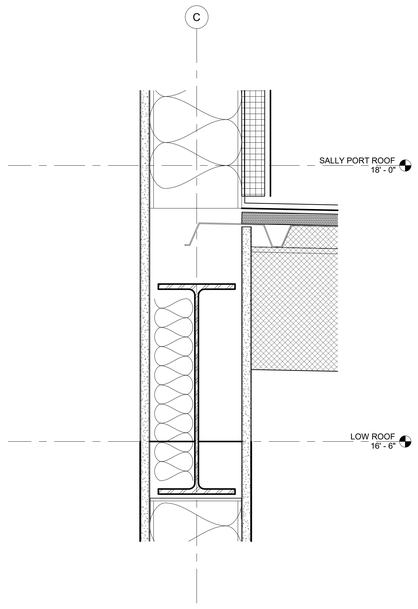


5 A4.02 ROOF DETAIL
3" = 1'-0"



4 A4.02 ROOF DETAIL
3" = 1'-0"



3 A4.02 ROOF DETAIL
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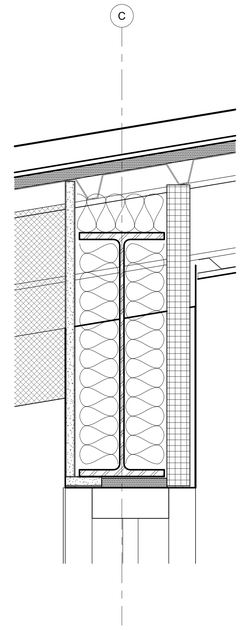
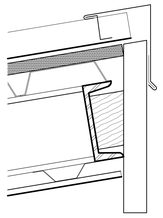


2 A4.02 ROOF DETAIL
3" = 1'-0"



1 A4.02 ROOF DETAIL
3" = 1'-0"

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PROJECT NO: 202420
DATE: 20250306

ROOF AND SECTION DETAILS

A4.02

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

GENERAL NOTES

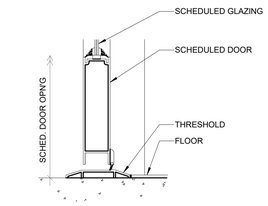
1. SEE REFERENCE FLOOR PLAN A1.02 FOR DOOR QUANTITY. THIS SCHEDULE DEFINES DOOR TYPES, NOT INDIVIDUAL DOORS. EACH DOOR SHOWN IS SEPARATELY INDENTIFIED BY AN OPENING NUMBER UNDER THE DOOR TYPE AS SHOWN ON THE PLAN.
2. ALL EXTERIOR DOORS HAVE WEATHER-STRIPPING, SWEEPS AND THRESHOLDS.
3. ALL SWINGING DOORS ARE 1 3/4" THICK UNLESS NOTED OTHERWISE.

HARDWARE SCHEDULE

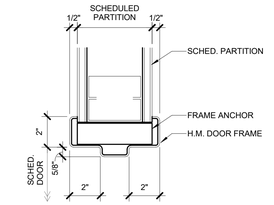
SET NO. 1: 1 1/2 PR BUTTS OFFICE LOCK SET, CLOSER, PANIC DEVICE, THRESHOLD, WEATHER-STRIPPING.
SET NO. 2: 1 1/2 PR BUTTS, PRIVACY LOCK SET, SWEEP, KICK PLATES, WALL STOP.
SET NO. 3: 1 1/2 PR BUTTS, STOREROOM LOCK SET, CLOSER, SWEEP, WALL STOP.
SET NO. 4: 1/2 PR BUTTS, OFFICE LOCK SET, THRESHOLD, WEATHER-STRIPPING, WALL STOP
SET NO. 5: 1 1/2 PR BUTTS, CLASSROOM LOCK SET, CLOSER, PANIC DEVICE, THRESHOLD, WEATHER-STRIPPING, WALL STOP.
SET NO. 6: 3 PR GATE HINGES, STRONG ARM, LATCH, DROP ROD.
SET NO. 7: 1 1/2 PR BUTTS, STOREROOM LOCK SET, WALL STOP.

DOOR SCHEDULE

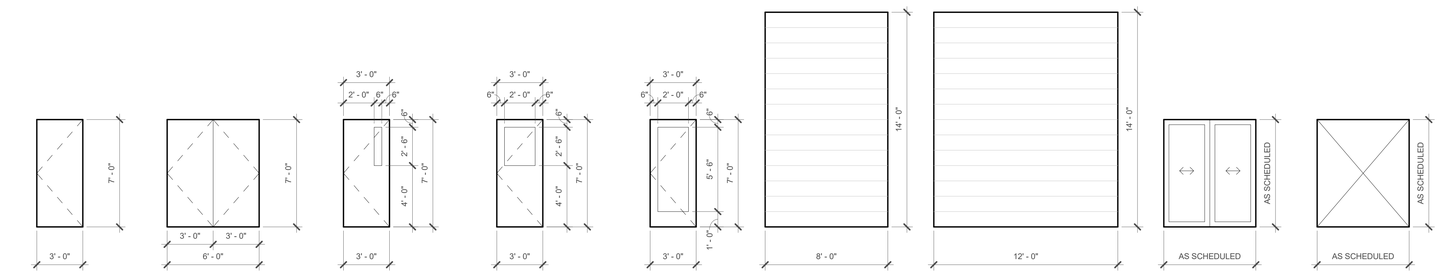
Mark	Door Elevation Type	Width	Height	Door Material	Frame Material	Fire Rating	Head	Jamb	Sill Detail	Hardware Set	Comments
101	E	3' - 0"	7' - 0"	ALUMINUM	ALUMINUM						
102	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
103A	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
103B	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
104	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
104B	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
105	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
106	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						PRIVACY LOCK WITH INDICATOR
107	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						PRIVACY LOCK WITH INDICATOR
108	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
109	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
110	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
111	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
112	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
113	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
114	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
115	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
116	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
117	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
118A	D	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL	20 MINUTE					
118B	G	12' - 0"	14' - 0"	HOLLOW METAL	HOLLOW METAL						
118C	A	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						
118D	F	8' - 0"	14' - 0"	HOLLOW METAL	HOLLOW METAL						
118E	C	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						
119	C	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						
120	A	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						
122	B	6' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						
123	D	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
124	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
125	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL	20 MINUTE					
126	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
127	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
128	C	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
129A	H	6' - 0"	7' - 7"	STAINLESS STEEL	STAINLESS STEEL						ASSA ABLOY BESAM UNISLIDE 96 - SIDELITE - ADA - BIPARTING SLIDING DOOR
129B	C	3' - 0"	7' - 0"	STAINLESS STEEL	STAINLESS STEEL						
130A	H	6' - 0"	7' - 7"	STAINLESS STEEL	STAINLESS STEEL						ASSA ABLOY BESAM UNISLIDE 96 - SIDELITE - ADA - BIPARTING SLIDING DOOR; TRANSLUCENT GLASS
130B	C	3' - 0"	7' - 0"	STAINLESS STEEL	STAINLESS STEEL						
131A	K	6' - 0"	8' - 0"	--	STAINLESS STEEL						CASED OPENING; RE: LAB, COLD ROOM SPECS
131B	K	6' - 0"	8' - 0"	--	STAINLESS STEEL						CASED OPENING; RE: LAB, COLD ROOM SPECS
132	H	6' - 0"	7' - 7"	STAINLESS STEEL	STAINLESS STEEL						ASSA ABLOY BESAM UNISLIDE 96 - SIDELITE - ADA - BIPARTING SLIDING DOOR; LEAD SHIELDED
134	H	6' - 0"	7' - 7"	STAINLESS STEEL	STAINLESS STEEL						ASSA ABLOY BESAM UNISLIDE 96 - SIDELITE - ADA - BIPARTING SLIDING DOOR
135	H	6' - 0"	7' - 6"	STAINLESS STEEL	STAINLESS STEEL						ASSA ABLOY SL500 MIDDLE SLIDE PANEL TELESCOPING DOOR
136	D	3' - 0"	7' - 0"	STAINLESS STEEL	STAINLESS STEEL						
137	A	3' - 0"	7' - 0"	STAINLESS STEEL	STAINLESS STEEL						
138	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL	20 MINUTE					
139	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
141	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						PRIVACY LOCK WITH INDICATOR
142	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						PRIVACY LOCK WITH INDICATOR
143	D	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL	20 MINUTE					
144A	A	3' - 0"	7' - 0"	P.LAM. WOOD	HOLLOW METAL						
144B	A	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						
145	K	3' - 0"	7' - 0"	--	HOLLOW METAL						CASED OPENING
146A	A	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						
146B	A	3' - 0"	7' - 0"	HOLLOW METAL	HOLLOW METAL						



3 A5.01 SILL ALUMINUM DOOR
3" = 1'-0"



2 A5.01 HEAD / JAMB DOOR DETAIL
3" = 1'-0"



1 A5.01 DOOR ELEVATIONS
1/4" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 20250306

DOOR SCHEDULE, ELEVATIONS, DETAILS

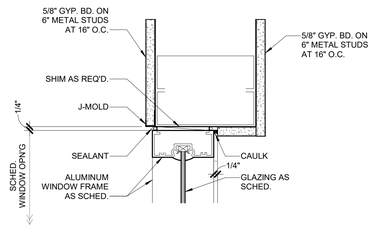
A5.01

DRG REFERENCE

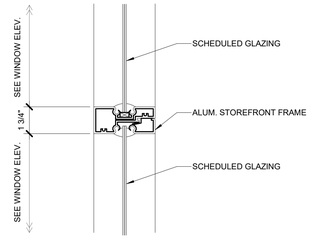
3/5/2025 7:24:36 AM

WINDOW SCHEDULE

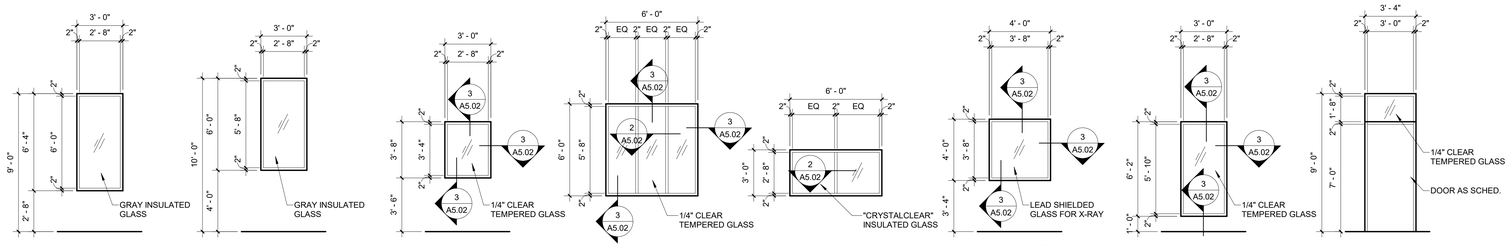
WINDOW TYPE	WIDTH	HEIGHT	FRAME MATERIAL	GLAZING MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	COMMENTS
A	3' - 0"	6' - 4"	ALUMINUM	INSULATED GLASS				
B	3' - 0"	6' - 0"	ALUMINUM	INSULATED GLASS				
C	3' - 0"	3' - 8"	ALUMINUM	TEMPERED GLASS	3 / A5.02	3 / A5.02	3 / A5.02	
D	6' - 0"	6' - 0"	ALUMINUM	TEMPERED GLASS	3 / A5.02	3 / A5.02	3 / A5.02	
E	6' - 0"	3' - 0"	ALUMINUM	INSULATED GLASS				
F	4' - 0"	4' - 0"	LEAD - LINED STEEL	LEAD SHIELDED GLASS	3 / A5.02	3 / A5.02	3 / A5.02	
G	3' - 0"	6' - 2"	ALUMINUM	TEMPERED GLASS	3 / A5.02	3 / A5.02	3 / A5.02	
H	3' - 4"	9' - 0"	ALUMINUM	TEMPERED GLASS	3 / A5.02	3 / A5.02		WITH DOOR 101; SEE DOOR SCHED.



3 A5.02 HEAD / JAMB / SILL DETAIL
3" = 1'-0"



2 A5.02 ALUMINUM STOREFRONT MULLION
3" = 1'-0"



1 A5.02 WINDOW ELEVATIONS
1/4" = 1'-0"

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 20250306

WINDOW SCHEDULE, ELEVATIONS, DETAILS

A5.02

DRG REFERENCE

2/26/2025 11:18:15 AM

LAB SINK SCHEDULE "LS-x"

MARK	TYPE	MATERIAL	SIZE (INTERIOR) LENGTH	WIDTH	DEPTH	HOT & COLD WATER	FOOT PEDAL	IR	SPRAYER	NOTES
LS-1	SINGLE BOWL	EPOXY RESIN	25"	15"	4 7/8"	X		X		
LS-1SS	SINGLE BOWL	STAINLESS STEEL	25"	15"	4 7/8"	X		X		
LS-2	SINGLE BOWL	EPOXY RESIN	25"	15"	10"	X		X		
LS-2SS	SINGLE BOWL	STAINLESS STEEL	25"	15"	10"	X		X		

GENERAL LAB SINK NOTES:
1. REFER TO LAB SINK PLAN DETAIL 5 / L5.00
2. REFER TO LAB PLANS FOR LOCATIONS OF WATER POLISHERS (WPx) AND PROVIDE 1/2" DIA. HOLE & TEMP CAP ADJACENT AS SHOWN ON LAB SINK PLAN. 5 / L5.00
3. REFER TO LAB PLANS FOR LOCATIONS OF DECK MOUNTED DRENCH HOSE EYEWASHES (EW).

FUME HOOD SCHEDULE "FHx-y"

TYPE MARK	LENGTH	OPERATION TYPE	LINER MATERIAL	WORKSURFACE MATERIAL	WORKSURFACE DEPTH	SASH CONFIGURATION	CUP SINK CUP SINK	CUP SINK LOCATION	ELECTRICAL SERVICES (BOTH POSTS)	PLUMBING SERVICES LEFT POST	PLUMBING SERVICES RIGHT POST	DISTILLATION RACK	NOTES
FH6-1-ADA	6' - 0"	VARIABLE	FRP	EPOXY RESIN	2'-0"	Vertical	Yes	Right Front	DUPLEX POWER, OUTLET, GFI	NONE	CW	No	

GENERAL FUME HOOD NOTES:
1. AT FUME HOODS NOT SCHEDULED TO RECEIVE BASE CABINETS, SUPPORT HOOD WITH MANUFACTURER'S STANDARD 2" X 2" TUBULAR STEEL TABLE.
2. FUME HOOD MANUFACTURER SHALL ADVISE WHAT SPECIAL STRUCTURE IS REQUIRED, CONCEALED IN WALLS, FOR SEISMIC ANCHORAGE OF FUME HOODS, PER PREVAILING CODES.
3. ADA FUME HOODS SHALL BE ADA COMPLIANT IN APRON DEPTH AND MOUNTING HEIGHT.
4. ALL FUME HOODS SHALL HAVE A PERFORATED SCREEN AT THE BACK BAFFLE AREA. REFER TO THE FUME HOOD SPECIFICATION 115313.
5. REFER TO FUME HOOD SCHEDULE FOR ALL FUME HOOD TYPES & THEIR SERVICES. REFER TO LAB PLANS FOR LOCATIONS OF FUME HOOD TYPES.

LAB MOBILE TABLE SCHEDULE "MTxxyy"

MARK	SIZE DEPTH	SIZE LENGTH	TOP	NOTES
MT3060	2' - 6"	5' - 0"	STAINLESS STEEL	NON MARINE EDGE, ALL STAINLESS STEEL CONSTRUCTION
MT3660	3' - 0"	5' - 0"	STAINLESS STEEL	NON MARINE EDGE, ALL STAINLESS STEEL CONSTRUCTION

GENERAL LAB MOBILE TABLE NOTES:
1. PAPER ROLL DISPENSER WHERE SHOWN ON FLOOR PLANS - PRDx.
2. REFER TO MOBILE TABLE ELEVATION DETAIL 8 / L5.00
3. REFER TO LAB FLOOR PLANS FOR SUSPENDED CABINETS BELOW MOBILE TABLES.

LAB COUNTERTOP SCHEDULE

/XXX/ MARK	MATERIAL	NOTES
ER	EPOXY RESIN	ALL LAB COUNTERTOPS UNLESS NOTED OTHERWISE
SS	STAINLESS STEEL	WHERE NOTED ON LAB PLANS
SSME	STAINLESS STEEL-WITH MARINE EDGE	WHERE NOTED ON LAB PLANS

LAB ACCESSORIES

(XXX)	EQUIPMENT ITEM	SPEC. SECTION	OFOI	OFCI	CFCI	MOUNTING	COMMENTS
CG	CORNER GUARD	115300			X	WALL	
CH1	COAT HOOK	115300			X	WALL	
CH2	COAT HOOKS	115300			X	WALL	24" LONG, +60" AFF TO HOOKS
CPC	CONTROL PANEL FOR COOLER/FREEZER	132126			X	WALL	+48" AFF TO BOTTOM OF PANEL
CS	CORD SLOT	123553			X	COUNTER	2 1/2" x 6"
ED1	EPOXY DRYING RACK	123553			X	WALL	18" X 36"", +48" AFF TO BOTTOM OF RACK
FP	FILLER PANEL	123553			X	FLOOR	MATCH ADJACENT CASEWORK MATERIAL
GD	GLOVE DISPENSER	115300			X	WALL	+48" AFF TO CENTER
LAR	LEAD APRON RACK	115300			X	WALL	
PTD	PAPER TOWEL DISPENSER	115300			X	WALL	+48" AFF TO PAPER TOWEL DISPENSER SLOT
SC	SPILL CART	115300			X	FLOOR	
SSC	SAFETY SUPPLY CABINET	115300			X	WALL	+48" AFF TO CABINET HANDLE
WG	WALL GUARD	115300			X	WALL	

GENERAL LAB EQUIPMENT & LAB FIXTURES

(XX)	EQUIPMENT ITEM	SPEC. SECTION	OFOI	OFCI	CFCI	MOUNTING	COMMENTS
DC1	EVIDENCE DRYING CABINET	115300			X	FLOOR	
EW	DRENCH HOSE EYEWASH	123553			X	COUNTER	
EWS	EMERGENCY SHOWER/EYEWASH	123553			X	WALL/CEILING	
F1A	LAB FREEZER	115300			X	FLOOR	
GR1	GAS CYLINDER RACK	115300			X	FLOOR/WALL	
GR2	WALL MOUNTED GAS CYLINDER STRAP	115300			X	WALL	
GW	LAB GLASSWARE WASHER	115300			X	FLOOR	
HG	HYDROGEN GENERATOR	DIV. 22			X	COUNTER	
IES	INSECT ELIMINATION SYSTEM	115300			X	WALL	+96" AFF TO BOTTOM, ELEC. PROVIDED BY DIV. 26
NG5	NITROGEN GENERATOR	DIV. 22			X	FLOOR	
PT	PASS-THRU CABINET	115300			X	WALL	
R1A	LAB REFRIGERATOR	115300			X	FLOOR	
TE1	ARTICULATING TASK EXHAUST	115300			X	CEILING	

AUTOPSY SECTION

(XX)	EQUIPMENT ITEM	SPEC. SECTION	OFOI	OFCI	CFCI	MOUNTING
ME1	BACKDRAFT AUTOPSY STATION	115360			X	WALL
ME2	AUTOPSY CARRIER	115360			X	FLOOR
ME2A	STAINLESS STEEL AUTOPSY TRAY	115360			X	CARRIER
ME3	BARIATRIC AUTOPSY CARRIER WITH STAINLESS STEEL TRAY	115360			X	FLOOR
ME4	5 TIER RACKING SYSTEM	115360			X	FLOOR
ME5	RECESSED FLOOR SCALE	115360			X	FLOOR
ME6	LODOX	N.I.C.	X			FLOOR
ME6A	LODOX CONTROL STATION	N.I.C.	X			FLOOR
ME6B	LODOX GENERATOR	N.I.C.	X			FLOOR
ME8	PORTABLE X-RAY	N.I.C.	X			FLOOR
ME9	OVERHEAD CADAVER LIFT	115360			X	CEILING
ME10	HYDRAULIC CADAVER LIFT	115360			X	FLOOR
ME11	COOLER	132126			X	FLOOR
ME12	SURGICAL LIGHT	115360			X	CEILING

TOXICOLOGY SECTION

(XX)	EQUIPMENT ITEM	SPEC. SECTION	OFOI	OFCI	CFCI	MOUNTING
TX1	GC/MS	N.I.C.	X			COUNTER
TX2	GC/FID	N.I.C.	X			COUNTER
TX3	GC WITH HEADSPACE	N.I.C.	X			COUNTER
TX4	LC/MS - TRIPLE QUAD	N.I.C.	X			COUNTER
TX5	EVAPORATOR	N.I.C.	X			COUNTER
TX6	HOMOGENIZER	N.I.C.	X			COUNTER

LAB ABBREVIATIONS

ACDx	ACID STORAGE CABINET - EXHAUSTED (x DENOTES CABINET WIDTH)
AFF or A.F.F.	ABOVE FINISHED FLOOR
AR5	ARGON FITTING (99.999% PURITY)
BSCx-y	MOBILE TABLE CABINET (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE)
Bx-y	BASE FIXED FLOOR MOUNTED CABINETRY (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE)
Bx-ySS	SAME AS Bx-y, EXCEPT ALL STAINLESS STEEL CONSTRUCTION
CA	COMPRESSED AIR FITTING
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	STAINLESS STEEL CORNER GUARD
CS	CUP SINK
CSCx	FLAMMABLE CHEMICAL STORAGE CABINET (x DENOTES CABINET WIDTH)
CW	COLD WATER
DBx-y	BASE FIXED FLOOR MOUNTED DRAWER UNIT CABINETRY (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE)
DBx-ySS	SAME AS DBx-y, EXCEPT ALL STAINLESS STEEL CONSTRUCTION
EL-x	EVIDENCE LOCKER (x DENOTES CABINET TYPE)
ER	EPOXY RESIN
FHx-y	FUME HOOD (x DENOTES HOOD WIDTH; y DENOTES HOOD TYPE, REFER TO FUME HOOD SCHEDULE)
FRP	FIBERGLASS REINFORCED POLYESTER
H5	HYDROGEN FITTING (99.999% PURITY)
HCW	HOT & COLD WATER
HE5	HELIUM FITTING (99.999% PURITY)
HW	HOT WATER
IR	INFRARED
KS-SS	SAME AS KS, BUT ALL STAINLESS STEEL CONSTRUCTION
KSDx	KNEE SPACE WITH DRAWER AND STANDARD APRON, (x DENOTES WIDTH)
KSDx-SS	SAME AS KSDx, BUT ALL STAINLESS STEEL CONSTRUCTION
KSx	KNEE SPACE (x DENOTES WIDTH)
L	LOCKING CABINET
LA5	LAB AIR FITTING (99.999% PURITY)
LN	LIQUID NITROGEN
LSx	LAB SINK (x DENOTES SINK TYPE, REFER TO LAB SINK SCHEDULE)
MCx-y	MOBILE CABINETS (x DENOTES WIDTH; y DENOTES TYPE)
MTCxy	MOBILE TABLE CABINET (x DENOTES WIDTH; y DENOTES TYPE)
MTxy	MOBILE TABLE (x DENOTES WIDTH; y DENOTES LENGTH)
MTxy-SS	SAME AS MTxy, BUT ALL STAINLESS STEEL CONSTRUCTION
N	NITROGEN FITTING (95% PURITY)
N5	NITROGEN FITTING (99.999% PURITY)
NIC or N.I.C.	NOT IN CONTRACT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OHCA	OVERHEAD CORD REEL (COMPRESSED AIR), BY DIV. 22
OHCR1	OVERHEAD CORD REEL (POWER-RECESSED), BY DIV. 26
OHCR2	OVERHEAD CORD REEL (POWER-EXPOSED), BY DIV. 26
OHCW	OVERHEAD CORD REEL (COLD WATER), BY DIV. 22
PRDx	PAPER ROLL DISPENSER (x DENOTES WIDTH)
SB-x	SINK BASE FIXED FLOOR MOUNTED CABINETRY (x DENOTES CABINET WIDTH)
SB-xSS	SAME AS SB-x EXCEPT ALL STAINLESS STEEL CONSTRUCTION
SBx-ADA	SINK BASE FIXED FLOOR MOUNTED CABINETRY (x DENOTES CABINET WIDTH) - ADA COMPLIANT
SCTx-y	SUSPENDED CABINET (x DENOTES WIDTH; y DENOTES TYPE)
SCTx-ySS	SUSPENDED CABINET, STAINLESS STEEL (x DENOTES WIDTH; y DENOTES TYPE)
SCx-y	SUSPENDED CABINET (x DENOTES WIDTH; y DENOTES TYPE)
SCx-ySS	SUSPENDED CABINET, STAINLESS STEEL (x DENOTES WIDTH; y DENOTES TYPE)
SHxxyy	STAINLESS STEEL WIRE SHELVING (x DENOTES DEPTH; y DENOTES LENGTH)
SP5	SPARE GAS FITTING (99.999% PURITY)
ST.STL or SS	STAINLESS STEEL
TCx-y	TALL CABINET (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE)
TCx-ySS	SAME AS TCx-y, EXCEPT ALL STAINLESS STEEL CONSTRUCTION
TSx-y	TALL SHELF (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE)
TSx-ySS	SAME AS TSx-y, EXCEPT ALL STAINLESS STEEL CONSTRUCTION
TYPE I	ASTM TYPE I PURIFIED WATER, 18 MEGAOHM
TYPE II	ASTM TYPE II PURIFIED WATER, 1 MEGAOHM
TYPE III	ASTM TYPE III PURIFIED WATER LOCATION, 4 MEGAOHM
UHP	ULTRA HIGH PURITY
UNO or U.N.O.	UNLESS NOTED OTHERWISE
VAC	VACUUM
WCx-y	WALL CABINET (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE)
WCx-ySS	SAME AS WCx-y, EXCEPT ALL STAINLESS STEEL CONSTRUCTION
WG	STAINLESS STEEL WALL GUARD
WSTx-Y	WORKSTATION (x DENOTES WIDTH; y DENOTES DEPTH)
WSx-y	WALL SHELF (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE)
WSx-YSS	SAME AS WSx-y, EXCEPT ALL STAINLESS STEEL CONSTRUCTION

LAB SYMBOL LEGEND

ROOM NAME
101 ROOM NAME AND NUMBER
(?) KEYNOTE
(XX) EQUIPMENT NUMBER
(XXX) LABORATORY ACCESSORY EQUIPMENT NUMBER
XX SPECIAL COUNTERTOP HEIGHT (IF DIFFERENT THAN 36")
ULTRA HIGH PURITY GAS FITTING (SINGLE HEAD)
COUNTERTOP ELEVATION CHANGE
FD FLOOR DRAIN BY DIV.22
FFD FLUSHING FLOOR DRAIN BY DIV.22
HD 1/2 GRATE AND 1/2 OPEN DRAIN BY DIV.22
(L) ALL DOORS AND DRAWERS TO BE LOCKING
(M) MONITOR TO BUILDING MONITORING SYSTEM
WG STAINLESS STEEL WALL GUARD
CG STAINLESS STEEL CORNER GUARD
/XXX/ COUNTERTOP TYPE

McClaren, Wilson & Lawrie, Inc.
ARCHITECTS AND PLANNERS
11798 NORTH LAKERIDGE PARKWAY
ASHLAND , VA 23005
P 804.228.7473

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 2/28/25

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LAB SCHEDULES & ABBREVIATIONS

L1.00

DRG REFERENCE

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DESIGNED BY: ARCHITECT

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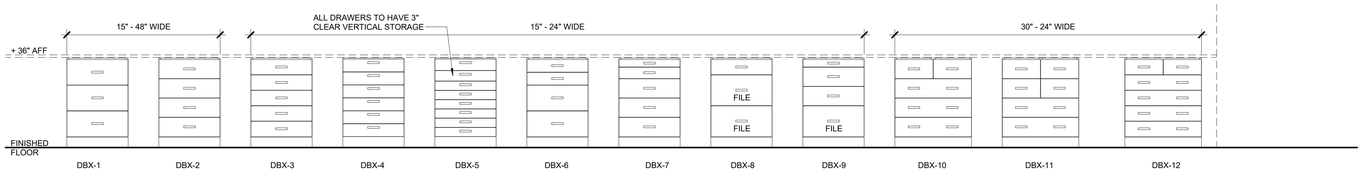
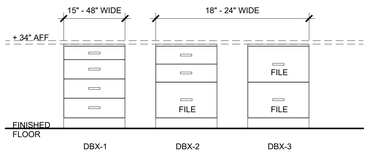
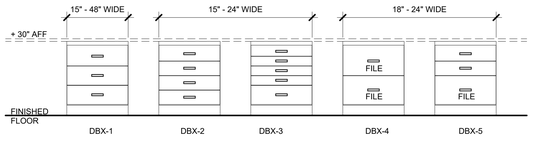
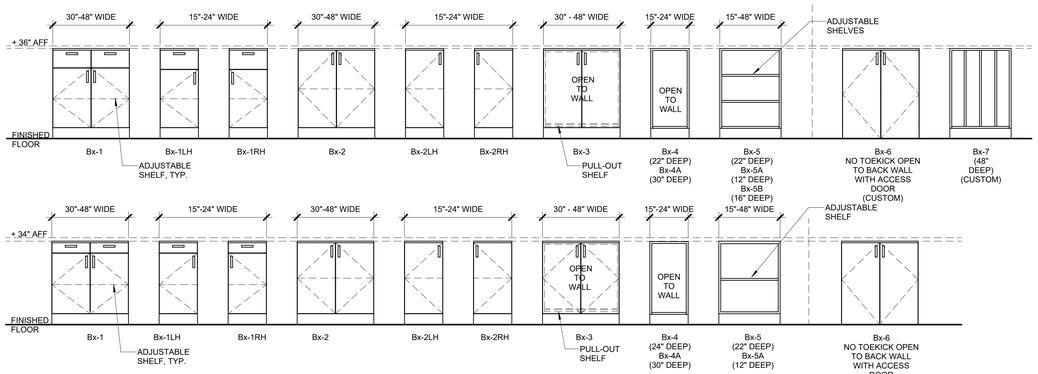






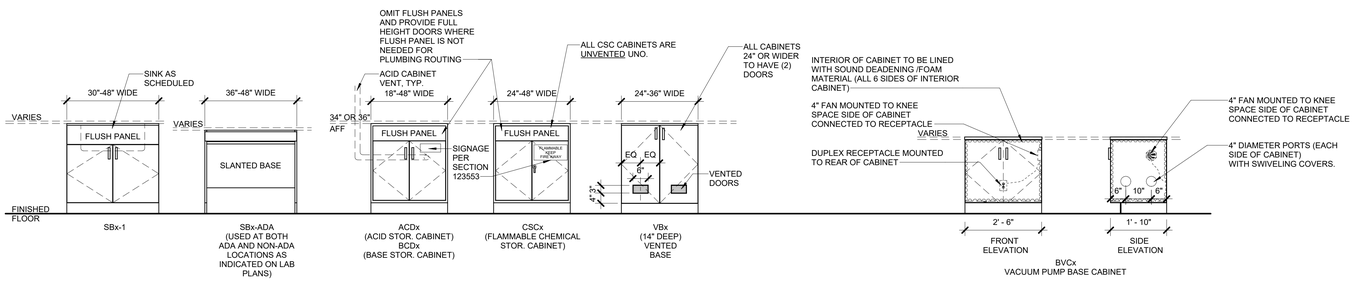
DRAWER BASE CABINETS

1/2" = 1'-0"



BASE CABINETS

1/2" = 1'-0"

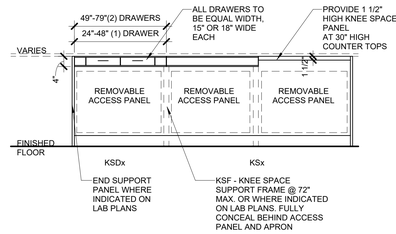


SPECIALTY BASE CABINETS

1/2" = 1'-0"

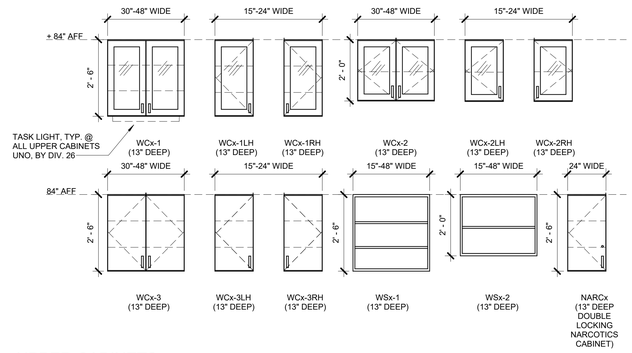
LAB CASEWORK GENERAL NOTES

1. CABINETS & COUNTERTOPS
   - A. ALL SINKS SHALL BE CENTERED IN THEIR CABINETS UNLESS OTHERWISE SHOWN ON DRAWINGS.
   - B. PROVIDE REMOVABLE BACK ACCESS PANELS AT ALL CABINETS AND KNEE SPACES TO PROVIDE ACCESSIBILITY TO UTILITY CHASES BEHIND CABINETS.
   - C. CASEWORK MANUFACTURER AND INSTALLER SHALL PREPARE ALL LAB CASEWORK FOR SPECIAL APPLICATIONS, SUCH AS PRE DRILLING FOR INSTALLATION OF HANDS FREE DEVICES, CUTS IN BACKSPLASH AND COUNTERTOPS FOR EXHAUST GRILLES, TUBING FROM DUCT PENETRATIONS, TASK EXHAUST UNITS, PURIFIED WATER COMPONENTS, WIRING, ETC.
   - D. ALL LABORATORY COUNTERTOPS AND BACKSPLASHES SHALL BE EPOXY RESIN, EXCEPT WHERE INDICATED OTHERWISE. COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD LINE OF COLORS. ALL BACKSPLASHES SHALL MATCH COUNTERTOPS IN MATERIAL AND COLOR. BACKSPLASHES SHALL EXTEND UP TO THE UNDERSIDE OF THE COMPARTMENT RACEWAY.
   - E. ALL COUNTERTOP HEIGHTS SHALL BE 36" AFF UNLESS NOTED OTHERWISE.
   - F. ALL REAGENT SHELVES SHALL MATCH ADJACENT COUNTERTOPS.
   - G. PROVIDE REMOVABLE CLOSURE PANELS AT ENDS OF UTILITY CHASES AT KNEE SPACES, PENINSULAS, ISLANDS, ETC. UNLESS NOTED OTHERWISE.
   - H. ALL SINGLE FIXED COUNTERTOPS AT FIXED CASEWORK ARE 30" DEEP UNLESS NOTED OTHERWISE.
   - I. PROVIDE HANGING FILE HARDWARE AT ALL FILE CABINETS LABELED "FILE".
   - J. PROVIDE LOCKING HARDWARE AT ALL DRAWERS AND DOORS WHERE INDICATED ON LAB PLANS WITH (L)
   - K. PROVIDE SEISMIC LIPS ON ALL OPEN SHELVING, BOOKSHELVES, ETC.
   - L. ALL KNEE SPACES AND WORK U'S SHALL BE CONSTRUCTED WITHOUT VERTICAL LEGS TO ENSURE FULL USE OF THE KNEE SPACES. CONSTRUCT THIS CASEWORK WITH SPANNING APRON PANELS WHICH EITHER SPAN FROM CABINET TO CABINET, CABINETRY TO WALL OR WALL TO WALL. PROVIDE BRACE UNDER COUNTER AS REQUIRED TO SUPPORT COUNTERTOP SYSTEMS. IN NO CASE WILL THE BRACE SUPPORT BE PERMITTED WITHIN 14" OF THE LEADING EDGE OF THE COUNTERTOP.
   - M. CABINET DOOR WIDTHS: SINGLE WIDTH DOORS LESS THEN 48" IN HEIGHT, SHALL NOT EXCEED 24". ALL 24" WIDTH DOORS SHALL BE 1" THICK CONSTRUCTION.
2. COORDINATION
   - A. ALL DIMENSIONS ARE NOMINAL. SPECIFIC DIMENSIONS MAY VARY AMONG DIFFERENT CASEWORK MANUFACTURERS.
   - B. ALL DIMENSIONS ARE TYPICAL UNLESS OTHERWISE NOTED ON DRAWINGS.
   - C. VERIFY ALL DIMENSIONS IN FIELD BEFORE CASEWORK SHOP DRAWING PROCESS BEGINS.
3. FLOOR TO CABINET TRANSITIONS, UNLESS NOTED OTHERWISE. REFER TO ARCHITECTRUAL FINISH SCHEDULE.
   - A. PROVIDE SCHEDULED BASE AT TOE SPACES AT ALL FIXED CASEWORK.
   - B. CONTRACTOR SHALL PROVIDE SUITABLE PROTECTION OF ALL FINISHED FLOORING WORK.
   - C. PROVIDE BLOCKING AS REQUIRED FOR SUPPORT OF BASE, WHERE GAP BETWEEN FLOOR AND CABINET IS MORE THAN 3/4".
4. CABINET TO WALL TRANSITIONS
   - A. PROVIDE CONTINUOUS BLOCKING AT ALL WALL LOCATIONS WHERE THERE IS LAB CASEWORK AND ANY AND ALL WALL MOUNTED ACCESSORIES, INCLUDING WALL MOUNTED EQUIPMENT BY OTHERS.
   - B. PROVIDE SURFACE MOUNTED PAPER TOWEL DISPENSERS AT ALL LAB SINKS. LOCATE ALL EPOXY DRYING RACKS TO AVOID CONFLICT WITH DECK MOUNTED EYEWASH UNITS.
5. SIGNAGE
   - A. PROVIDE AND INSTALL ALL NECESSARY AND REQUIRED SIGNAGE TO IDENTIFY AND LOCATE EMERGENCY EYEWASH AND SHOWER UNITS AS REQUIRED BY THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
   - B. FLAMMABLES STORAGE AND ACID STORAGE CABINETS: PROVIDE LABEL IN ACCORDANCE WITH SPECIFICATIONS "FLAMMABLE KEEP AWAY" AND "ACID STORAGE".



KNEE SPACES

1/2" = 1'-0"



UPPER CABINETS

1/2" = 1'-0"

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ARCHITECTS AND PLANNERS
11798 NORTH LAKERIDGE PARKWAY
ASHLAND , VA 23005
P 804.228.7473

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 2/28/25

LAB CASEWORK ELEVATIONS

L1.01

DRG REFERENCE

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DESIGNED BY: ARCHITECT

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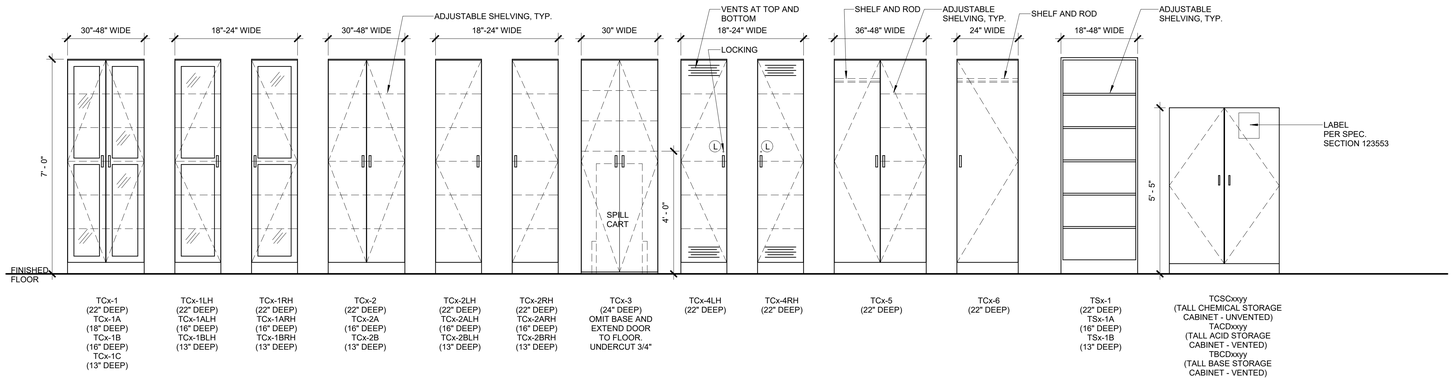
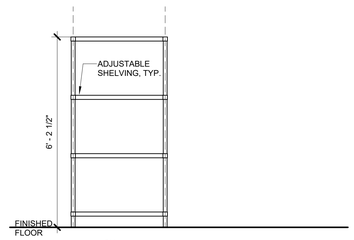
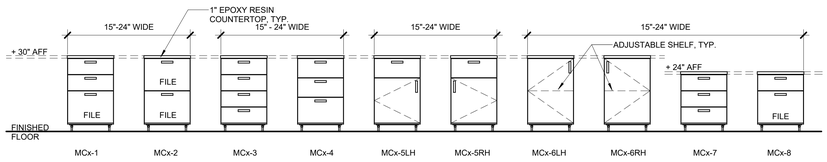


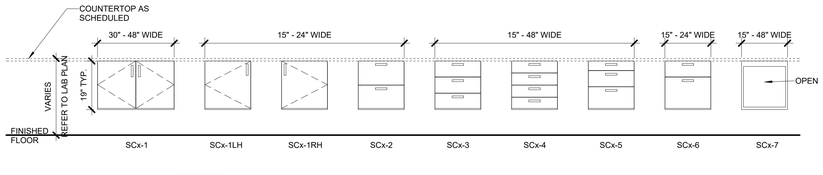
TALL CABINETS

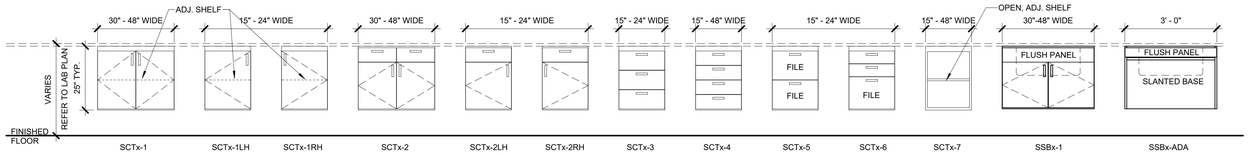


STAINLESS STEEL WIRE SHELVING

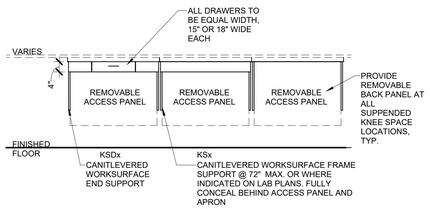


MOBILE CABINETS

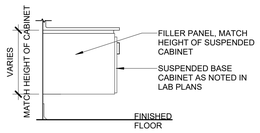




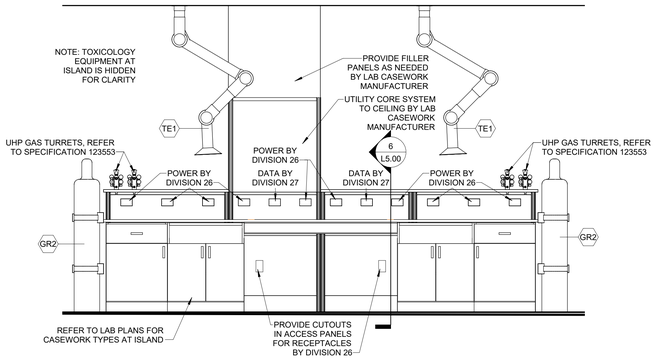
SUSPENDED CABINETS



SUSPENDED KNEE SPACES

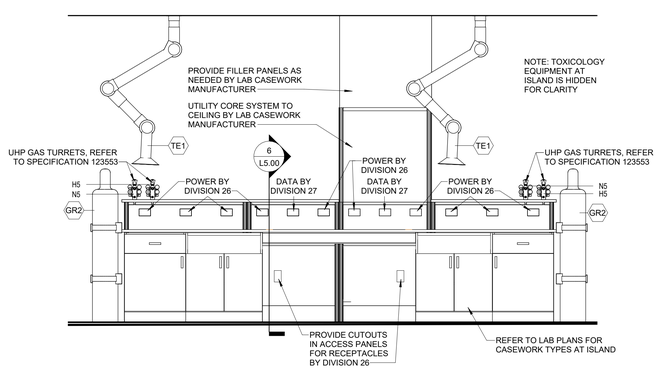


END ELEVATION AT SUSPENDED CABINETS



2 L1.02 TOXICOLOGY ISLAND ELEVATION B

1/2" = 1'-0"



1 L1.02 TOXICOLOGY ISLAND ELEVATION A

1/2" = 1'-0"

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ARCHITECTS AND PLANNERS
11798 NORTH LAKERIDGE PARKWAY
ASHLAND , VA 23005
P 804.228.7473

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
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PROJECT NO: 202420
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LAB CASEWORK ELEVATIONS

L1.02

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P 804.228.7473

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
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1 L2.00 OVERALL LAB PLAN
1/8" = 1'-0"

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LAB OVERALL PLAN

L2.00

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P 804.228.7473

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
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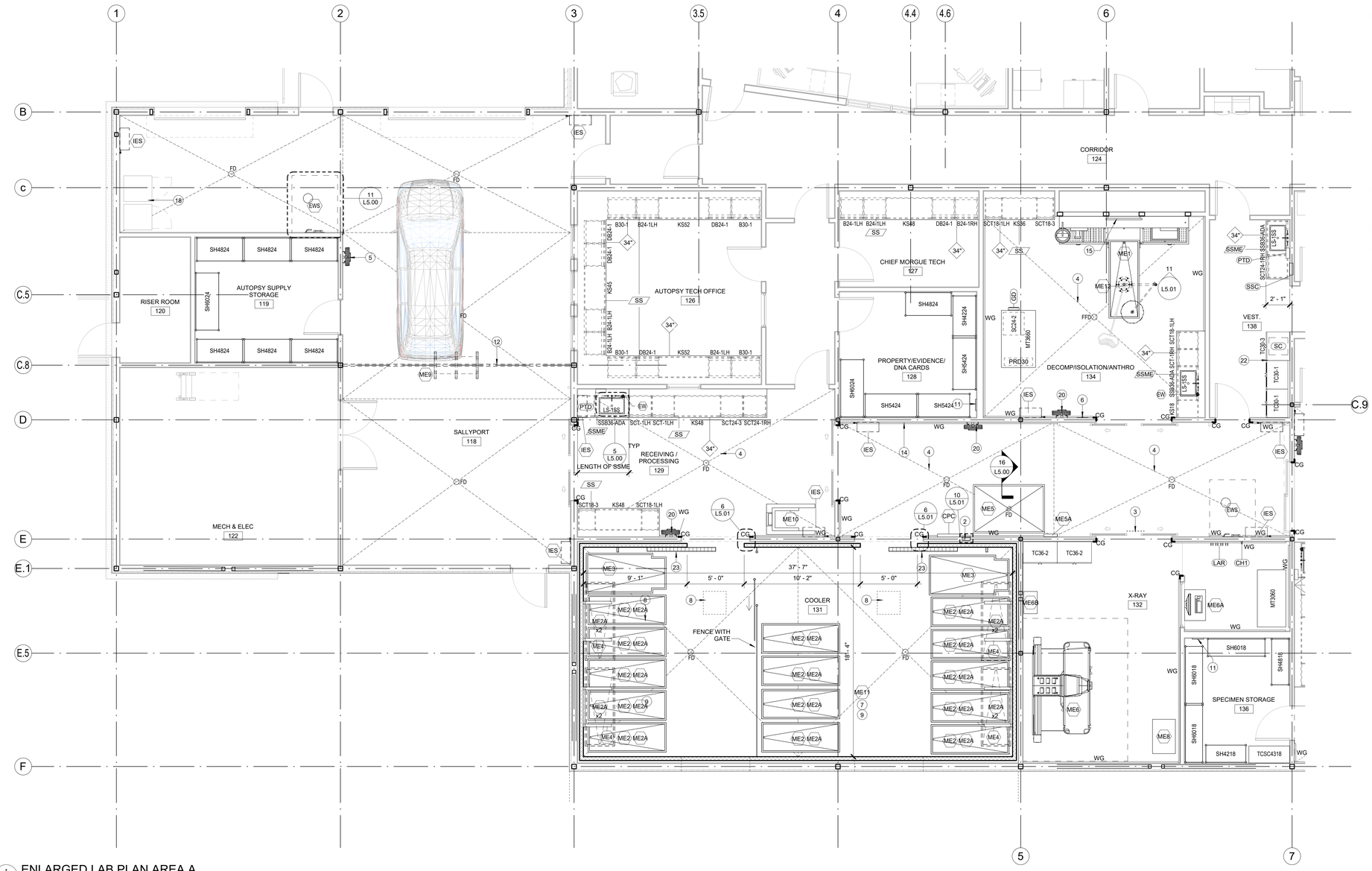
KEYNOTES

1 CW WYE HOSE BIB AT +48" AFF WITH 15' OF HOSE, BY DIVISION 22
2 RECESSED DRAIN BOX FOR COOLER CONDENSATE AT +18" AFF, CHAMFER END OF PIPE AND PROVIDE AIR GAP BETWEEN CONDENSATE PIPE AND DRAIN, BY DIVISION 22
3 X-RAY IN USE LIGHT, BY DIVISION 26
4 SLOPE TO DRAIN 1" PER 12'-0". REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES.
5 HW AND CW MIXING STATION WITH 50' OF HOSE, MOUNT AT +60" AFF TO CONTROLS, BY DIVISION 22
6 FLUSHING FLOOR DRAIN CONTROL, MOUNT BUTTON AT +48" AFF, BY DIVISION 22
7 COLD ROOM EVAPORATORS, HUNG BELOW CEILING, REFER TO SPECIFICATION SECTION 132126
8 COOLER DEHUMIDIFIER MOUNTED ABOVE COOLER CEILING, REFER TO SPECIFICATION SECTION 132126
9 COOLER MANUFACTURER TO PROVIDE STAINLESS STEEL CORNER GUARDS AND WALL GUARDS AT PERIMETER OF ROOM WITHIN THE COOLERS.
11 LOW ELEVATION EXHAUST AT +12" AFF, BY DIVISION 23
12 OVERHEAD CADAVER LIFT TRACK, REFER TO STRUCTURAL DRAWINGS
13 MOP SINK, BY DIVISION 22
14 PHOTO GRAY WALL, REFER TO ARCHITECTURAL DRAWINGS
15 WALL MOUNTED 43" FLAT PANEL MONITOR, MOUNT BOTTOM AT +64" AFF, OFCI
18 WASHER AND DRYER. REFER TO ARCHITECTURAL DRAWINGS
20 HW AND CW MIXING STATION WITH 25' OF HOSE, MOUNT AT 60" AFF TO CONTROLS, BY DIVISION 22
22 ALIGN FRONT OF CABINETS AND PROVIDE TOP & SIDE FILLER PANELS
23 PROVIDE 3X3 STEEL ANGLE, GALVANIZED, PAINTED SAFETY YELLOW, WHEEL STOP BOLTED TO FLOOR TO PREVENT AUTOPSY CARRIERS FROM ACCIDENTALLY ROLLING INTO THE SLIDE PATH OF ANY SLIDING DOOR
24 1" DIAMETER HOLE IN EPOXY COUNTER FOR INLET PORT FOR GAS GENERATOR
26 VENTED ACID CABINET, MECHANICAL VENTILATION BY DIVISION 23
27 ACID NEUTRALIZATION AT SINK, BY DIVISION 22



1 L2.01 ENLARGED LAB PLAN AREA A
1/4" = 1'-0"

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ENLARGED LAB PLAN AREA A

L2.01

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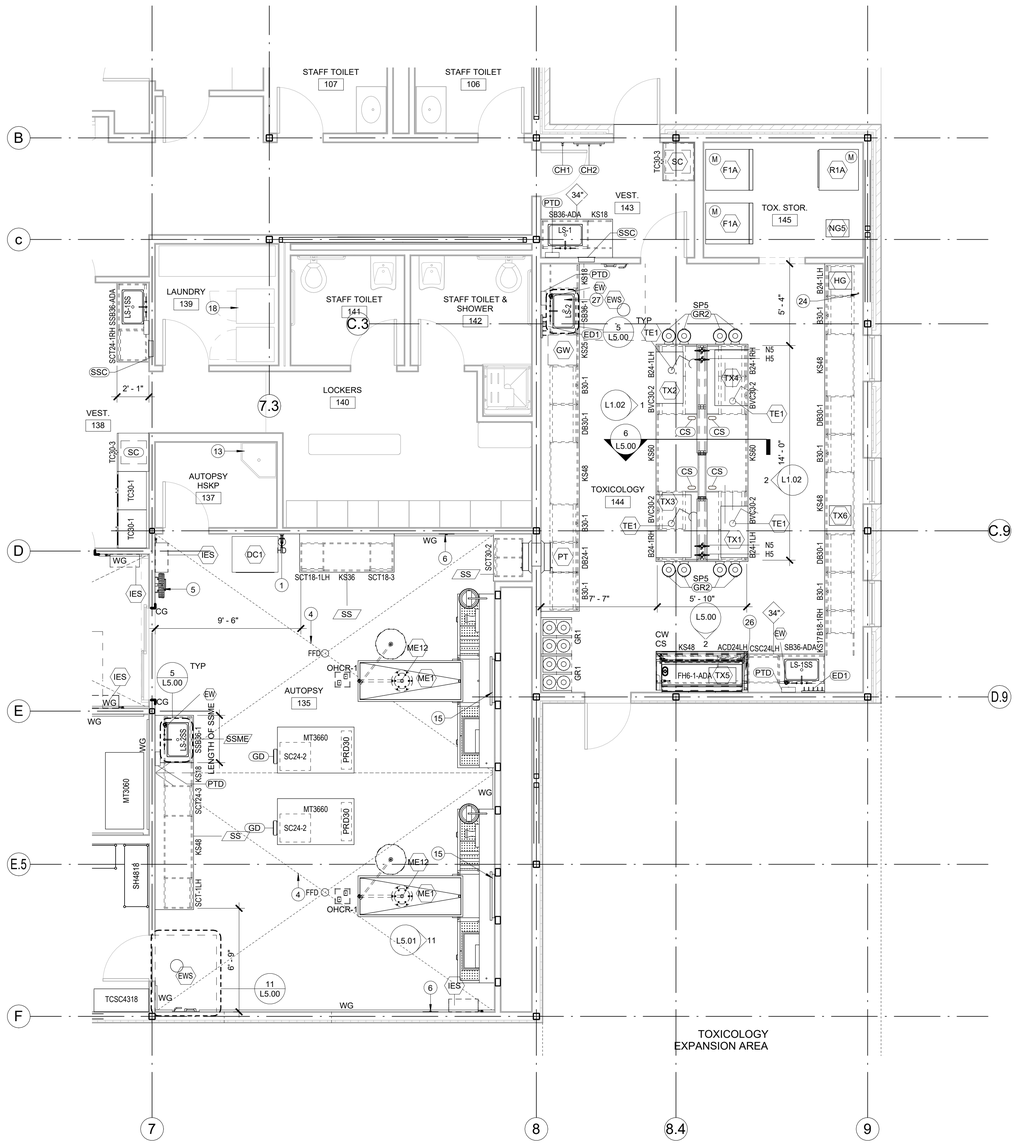

1 L2.02 ENLARGED LAB PLAN AREA B
1/4" = 1'-0"

KEYNOTES

1 CW WYE HOSE BIB AT +48" AFF WITH 15' OF HOSE, BY DIVISION 22
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P 804.228.7473

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13300 OLD BLANCO RD.
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ENLARGED LAB PLAN AREA B

L2.02

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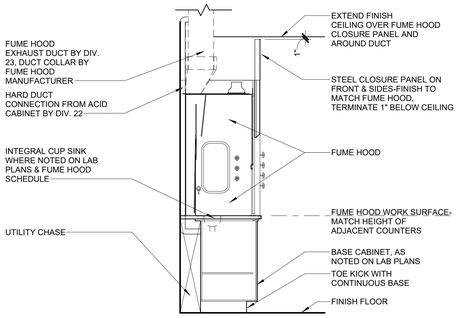
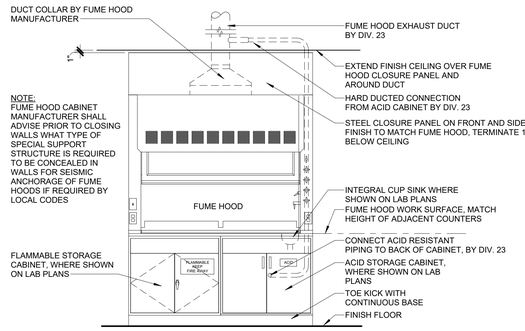
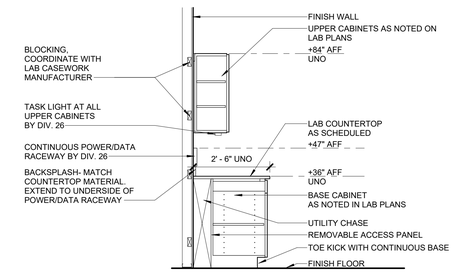


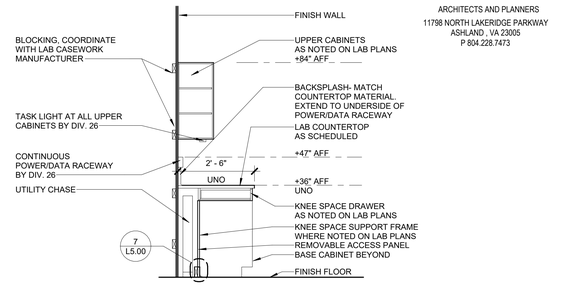
1 L5.00 FUME HOOD SECTION
1/2" = 1'-0"



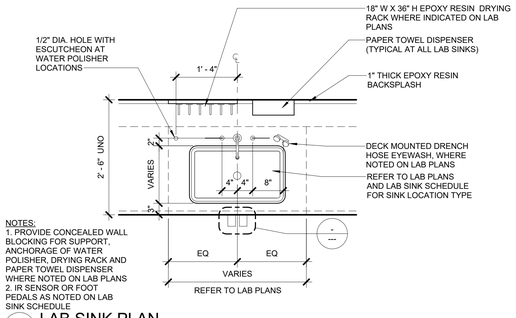
2 L5.00 FUME HOOD ELEVATION
1/2" = 1'-0"



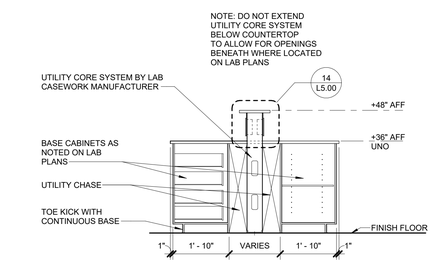
3 L5.00 BASE CABINET SECTION
1/2" = 1'-0"



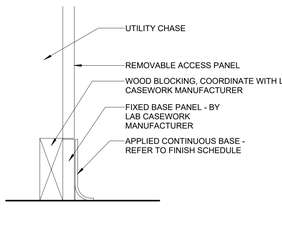
4 L5.00 KNEE SPACE SECTION
1/2" = 1'-0"



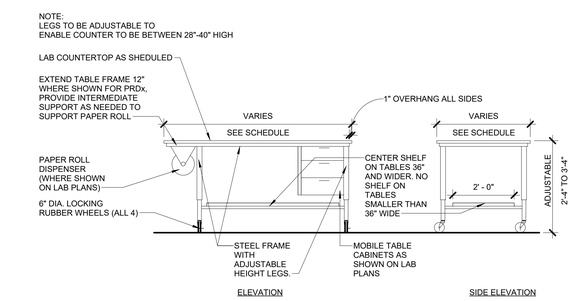
5 L5.00 LAB SINK PLAN
3/4" = 1'-0"



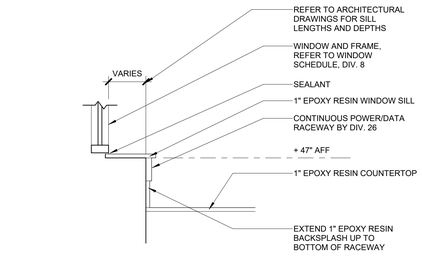
6 L5.00 BASE CABINET ISLAND SECTION W/ UTILITY CORE SYSTEM
1/2" = 1'-0"



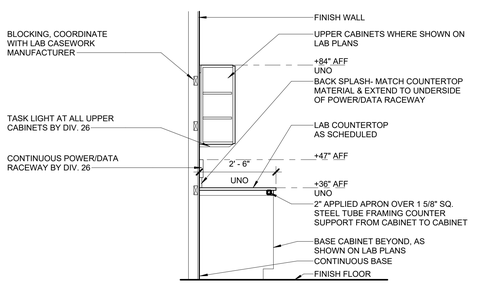
7 L5.00 FIXED BASE PANEL DETAIL AT UTILITY CHASE
3" = 1'-0"



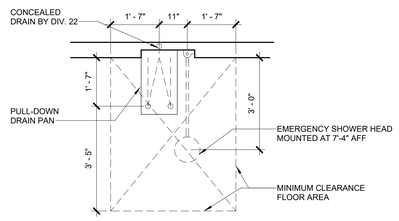
8 L5.00 MOBILE TABLE ELEVATION
1/2" = 1'-0"



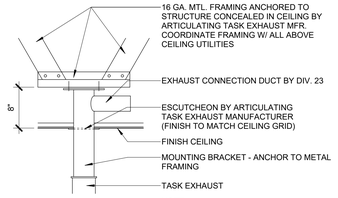
9 L5.00 WINDOW SILL SECTION
3/4" = 1'-0"



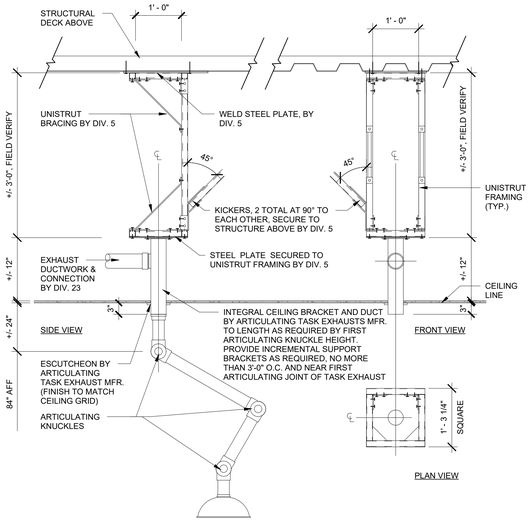
10 L5.00 SHALLOW APRON KNEE SPACE SECTION
1/2" = 1'-0"



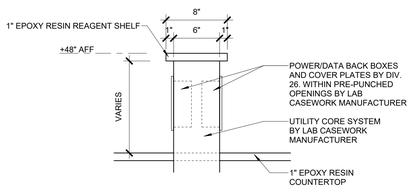
11 L5.00 PULL DOWN EMERGENCY EYEWASH/SHOWER
1/2" = 1'-0"



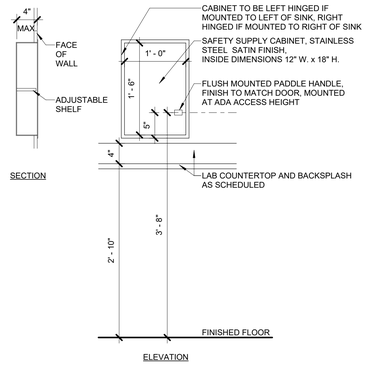
12 L5.00 TASK EXHAUST CEILING MOUNTING DETAIL
1" = 1'-0"



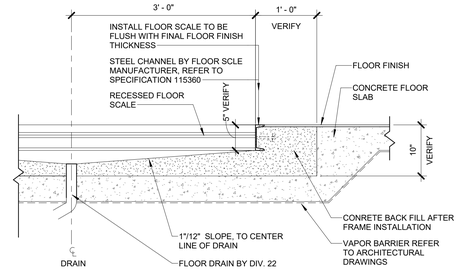
13 L5.00 ARTICULATING TASK EXHAUST MOUNTING DETAIL
3/4" = 1'-0"



14 L5.00 REAGENT SHELF SECTION
1 1/2" = 1'-0"



15 L5.00 SAFETY SUPPLY CABINET
1" = 1'-0"



16 L5.00 RECESSED SCALE DETAIL
1" = 1'-0"

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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ARCHITECTS AND PLANNERS
11798 NORTH LAKERIDGE PARKWAY
ASHLAND , VA 23005
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LAB DETAILS

L5.00

DRG REFERENCE

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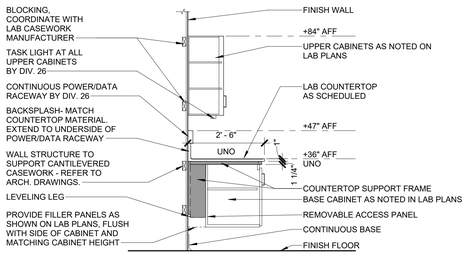
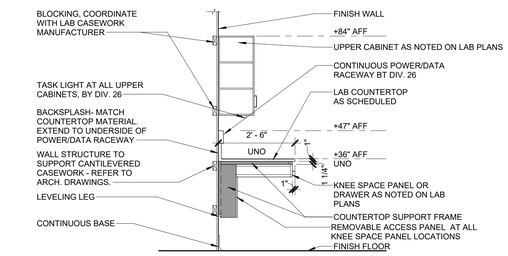
DESIGNED BY: ARCHITECT

2/26/2025 11:18:27 AM



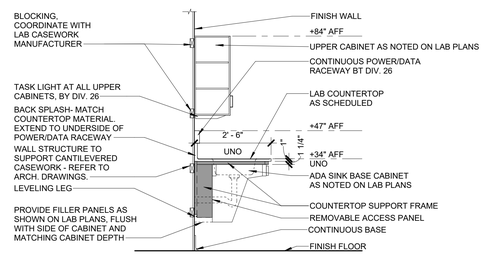
1 L5.01 STAINLESS STEEL SUSPENDED BASE CABINET SECTION

1/2" = 1'-0"



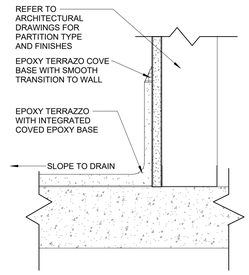
2 L5.01 STAINLESS STEEL SUSPENDED KNEE SPACE SECTION

1/2" = 1'-0"



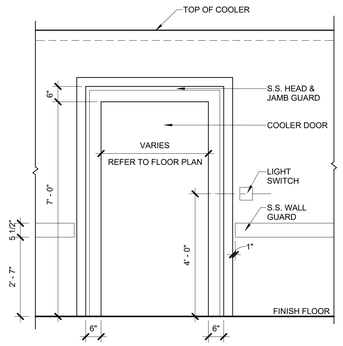
3 L5.01 STAINLESS STEEL SUSPENDED ADA SINK BASE SECTION

1/2" = 1'-0"



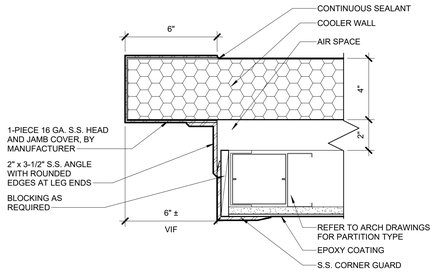
4 L5.01 EPOXY TERRAZO COVE BASE DETAIL

3" = 1'-0"



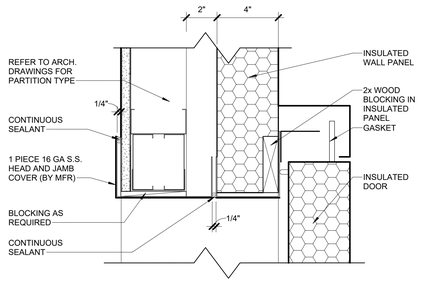
5 L5.01 COOLER OUTSIDE DOOR ELEVATION

1/2" = 1'-0"



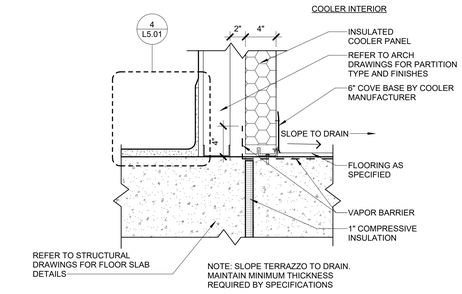
6 L5.01 COOLER DOOR JAMB DETAIL

3" = 1'-0"



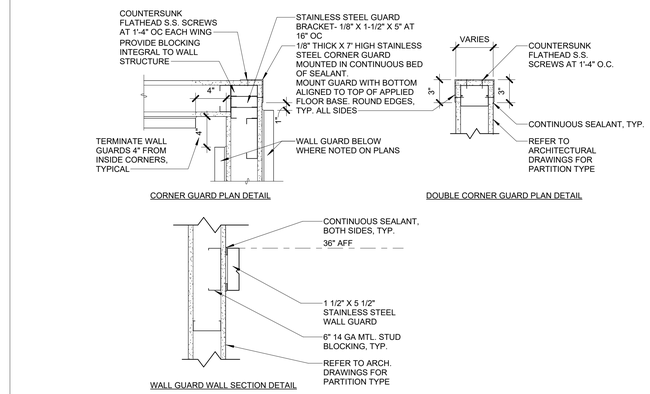
7 L5.01 COOLER DOOR HEAD DETAIL

3" = 1'-0"



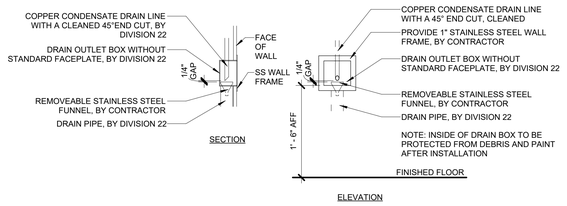
8 L5.01 SLAB ON GRADE COOLER FLOOR TO WALL DETAIL

1 1/2" = 1'-0"



9 L5.01 TYPICAL STAINLESS STEEL CORNER AND WALL GUARD DETAILS

1 1/2" = 1'-0"

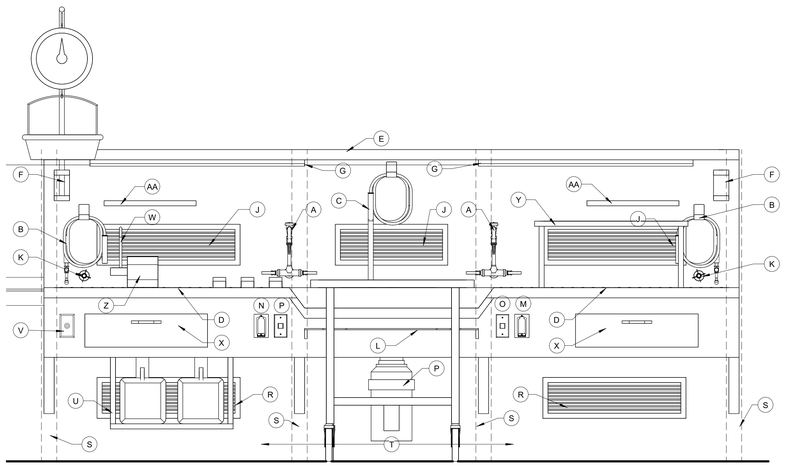


10 L5.01 CONDENSATE DRAIN BOX

1" = 1'-0"

BACKDRAFT AUTOPSY STATION ELEVATION KEY NOTES

A. GOOSENECK FAUCET ASSEMBLY WITH WRIST BLADE HANDLES
B. SPRAY HOSE ASSEMBLY-INCLUDE HOOK FOR HOSE
C. HYDRO ASPIRATOR
D. REMOVABLE FULL PERFORATED GRID PLATE
E. STAINLESS STEEL SHELF - 11" DEEP X WIDTH OF AUTOPSY STATION
F. SCALE POLE BRACKET (INCLUDE ONE POLE PER STATION) - ANALOG SCALE
G. UNIDER SHELF TASK LIGHT
H. DISSECTION TABLE BASE
J. EXHAUST VENTS BY AUTOPSY STATION MANUFACTURER - COORDINATE DUCTWORK WITH DIV. 23
K. END RINSE CONTROL VALVE
L. CART LATCH MECHANISM AUTO CENTERING TRAY SUPPORT
M. GFI OUTLET W/ WEATHERPROOF COVER
N. AUTOPSY CARRIER
O. DISPOSAL SWITCH
P. 2 HP DISPOSAL
Q. STAINLESS STEEL BODY TRAY
R. BACKDRAFT WALL GRILLE BY AUTOPSY TABLE MANUFACTURER - DIV. 23 TO INSTALL AND CONNECT TO EXHAUST
S. AUTOPSY STATION STRUCTURAL SUPPORT STEEL CONCEALED IN WALL BY DIV. 5- REFER TO STRUCTURAL DRAWINGS
T. WALL BASE, REFER TO ARCHITECTURAL DRAWINGS
U. FORMALIN DISPENSER SHELF
V. FORMALIN DISPENSER PUMP CONTROL
W. FORMALIN DISPENSER
X. INSTRUMENT DRAWER
Y. RAISED DISSECTION PLATFORM
Z. HEADREST
AA. SMALL SPECIMEN SCALE SHELF



11 L5.01 TYPICAL BACKDRAFT AUTOPSY STATION ELEVATION

1" = 1'-0"

DRAWN BY: K. GILMOUR
DESIGNED BY: ARCHITECT

McClaren, Wilson & Lawrie, Inc.
ARCHITECTS AND PLANNERS
11798 NORTH LAKERIDGE PARKWAY
ASHLAND , VA 23005
P 804.228.7473

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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95% CONSTRUCTION DOCUMENTS PACKAGE

PROJECT NO: 202420
DATE: 2/28/25

LAB DETAILS & AUTOPSY STATION ELEVATIONS

L5.01

DRG REFERENCE

2/28/2025 2:23:40 PM

S T R U C T U R A L N O T E S

1000 COORDINATION

A. The Contractor shall compare the Architectural, Structural, Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.

B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the Structural Drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the Structural Drawings, but required as noted above, shall be submitted to the Engineer for review.

C. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.

E. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.

F. The details designated as "Typical Details" apply generally to the Structural Drawings in all areas where conditions are similar to those described in the details.

G. All structural elements of the project have been designed by the Engineer to resist the required Code vertical and lateral forces that could occur in the Final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.

H. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Work in accordance with the Structural Contract Documents.

I. Where conflict exists among the various parts of the Structural Contract Documents, Structural Drawings, General Notes, and Specifications, the strictest requirements, as indicated by the Engineer, shall govern.

J. Periodic site observation by field representatives of Intelligent Engineering Services, LLP (IES) is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

1010 SUBSTITUTIONS

A. All requests for substitutions of materials or details shown in the Structural Contract Documents shall be submitted for approval during the bidding period.

B. Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings or duration to be deducted from the contract and/or schedule impact. Submittals not satisfying the above criteria will not be reviewed.

1020 CODES

A. The General Building Code used as the basis for the structural design is as follows:

City of Pleasanton Building Code (2015 International Building Code with City of Pleasanton Amendments)

1030 IBC 2015 DESIGN LOADS

A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:

Ceiling and Mechanical at roof	10 psf
Roofing and rigid insulation	8 psf

1. Live Loads

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
Partitions at areas with Live Load less than 80 psf	15	N/A
Corridors		
First Floor	100	N/A
Medical Facilites		
Laboratory rooms	60	1000
Morgues	125	N/A
Mechanical rooms, typical	150	Equip. Wt.
Office Buildings		
Lobbies and First floor corridors	100	2000
Offices	50	2000
Restrooms	60	2000

1. Roof Live Loads

ROOF USE	ROOF LIVE LOAD UNIFORM	ROOF LIVE LOAD CONCENTRATED
Ordinary Flat and Pitched	20 psf	N/A

B. Snow Loads

Ground snow load, P_g	5 psf
Snow exposure factor, C_e	1.0
Importance factor, I_s	1.0
Thermal factor, C_t	1.0

C. Wind Loads

1. Wind lateral load on structural frame is based on ASCE 7 using the following:

Ultimate Design Wind Speed (V_{ult})	110 mph
Nominal Design Wind Speed (V_{asd})	85 mph
Exposure Category	C
Internal Pressure Coefficient, GCpi	+/-0.18
Risk Category	II

- Ultimate Level Components and Cladding Wind Pressures: See sheet S-### for wind pressures.

D. Seismic Loads

1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:

Seismic Importance Factor, I_e	1.0
Risk Category	II
Mapped Spectral Response Accelerations	
S_s (g)	
S_1 (g)	0.056
Site Class	D.02
Design Spectral Response Accelerations	
S_{DS} (g)	
S_{D1} (g)	0.06
Seismic Design Category	0.032
Basic Seismic-force-resisting system	N/A
Design Base Shear, V	N/A
Seismic Response Coefficient(s), Cs	N/A
Response Modification Factor(s), R	N/A
Analysis Procedure Used	ASCE 7 Section 11.7

1030 IBC 2015 DESIGN LOADS (CONT)

E. Mechanical Equipment Loads

1. Loading for mechanical rooms are based on the weights of equipment and concrete pads as indicated on the Structural Drawings. The Contractor shall submit actual weights of equipment to be used in the project to the Structural Engineer for verification of loads used in the design at least three weeks prior to fabrication and construction of the supporting structure. Any revisions in equipment type, size, or quantity shall be reported to the Architect immediately for verification of the structural design.

F. Load Combinations

1. Strength Design
   a. 1.4(D+F)
   b. 1.2(D+F) + 1.6(L+H) + 0.5(L_r or S or R)
   c. 1.2(D+F) + 1.6(L_r or S or R) + 1.6H + (f₁L or 0.5W)
   d. 1.2(D+F) + 1.0W + f₁L + 1.6H + 0.5(L_r or S or R)
   e. 1.2(D+F) + 1.0E + f₁L + 1.6H + S
   f. 0.9D + 1.0W + 1.6H
   g. 0.9(D+f₁F) + 1.0E + 1.6H

   f₁ = 1.0 for places of public assembly live loads in excess of 100 pounds per square foot and 0.5 for other live loads.

2. Allowable Stress Design:
   a. D + F
   b. D + H + F + L
   c. D + H + F + (L_r or S or R)
   d. D + H + F + 0.75L + 0.75(L_r or S or R)
   e. D + H + F + (0.6W or 0.7E)
   f. D + H + F +0.75(0.6W) + 0.75L + 0.75(L_r or S or R)
   g. D + H + F +0.75(0.7E) + 0.75L + 0.75S
   h. 0.6D + 0.6W + H
   i. 0.6(D+F) + 0.7E + H

Future Expansion: Provision has not been made in the structural design for any future expansion.

1100 SUBMITTALS

A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.

B. Contractor shall review shop drawings for compliance with the Structural Drawings and shall certify that they have done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the Contractor and the date. Submittals which do not reflect the Contractor's approval, signature and date will be returned without review.

C. Contractor shall be responsible for delays caused by rejection of inadequate shop drawings.

D. where review and return of shop drawings is required or requested, the Engineer will review each submittal and, where possible, return within two weeks of receipt.

E. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the Contractor from compliance with requirements of the plans and specifications. Engineer's review is for general conformance with the requirements of the Structural Drawings. Contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating the work with that of all other contractors.

F. Refer to individual sections for specific submittal requirements.

2315 BUILDING PAD PREPARATION:

A. Structural fill material shall have a plasticity index between [XX] and [XX], and a liquid limit less than [XX]. Gradation of material shall be as follows:

1. Retained on 2 1/2" screen	0%
2. Retained on 1 1/2" screen	0% - 25%
3. Retained on 3/4" screen	25% - 55%
4. Retained on 1/4" screen	45% - 75%
5. Retained on No. 40 screen	60% - 90%

B. Prior to placing fill material, remove all organic and other deleterious material from the existing subgrade for a distance of 3' 0" beyond building line, to a depth of [XX] feet below final subgrade elevation. Remove additional material as required to place a minimum of [XX] feet of structural fill beneath the building slab. All exposed surfaces shall then be scarified to a depth of [XX], watered as required and re-compacted to a minimum of [XX] percent of the maximum dry density as defined by ASTM D 698 (Standard Proctor Test) at a moisture content within [XX] percent of the optimum moisture content.

C. Prior to placing select Fill material, the building pad shall be filled using layer-compacted, moisture-conditioned on-site clay soils to within XX feet of finished subgrade elevation. The moisture-conditioned soils shall be placed in 6 to 8 inch loose lifts at a minimum moisture content of 3 percentage points above optimum. Each lift shall be compacted between 93 and 100 percent of its maximum dry density as defined in ASTM D 698. Refer to geotechnical report for additional recommendations regarding moisture-conditioning stockpiled soils prior to placing on the building pad.

D. Structural Fill shall be placed in [XX] inch loose lifts to Final subgrade elevation, watered as required and compacted to a minimum of [XX] percent of the maximum dry density as defined in ASTM D 698 at a moisture content within [XX] percent of the optimum moisture content.

E. Compaction and moisture content of subgrade and each lift of structural Fill shall be inspected and approved by a qualified engineering technician, supervised by a Geotechnical Engineer.

F. Structural Fill shall not be placed beyond the limits of the exterior building structure.

G. Provide a vapor retarder that conforms to ASTM E1745, Class A or better with a maximum water vapor permeance of 0.03 [0.01] perms per ASTM E154. Vapor retarder shall be no less than 10 [15] mils thick.

H. Building pad preparation information is based on a geotechnical report provided by [XX] dated [XX].

2465 DRILLED PIERS

A. Pier design is based on the following design criteria:

1. Allowable end bearing	XX
2. Side friction	XX
3. Uplift Side Friction	XX
4. Side Friction (uplift resistance)	XX
5. Minimum penetration into bearing stratum	XX

B. Pier design is in accordance with the recommendations in the following geotechnical report:

1. Geotechnical engineer	XX
2. Date of report	XX
3. Report number	XX

C. Bearing stratum shown on the pier details is [XX].

D. Piers not specifically located on the plan shall be located on centerline of column above. Where no column occurs, locate on centerline of wall or beam.

E. Provide dowels from piers into concrete above using same bar size and number as shown for pilaster above. Where no pilaster occurs, use dowels of same size and number as pier reinforcing steel. Extend dowels 30 bar diameters into pier and beam, wall, pilaster or column, unless noted otherwise on the Structural Drawings.

F. Elevation of top of piers, unless noted otherwise on the Structural Drawings, is at the bottom of the deepest intersecting beam or wall supported by the pier.

G. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 spacers at a maximum spacing of 8 ft. along the length of the cage and 1'-0" from the bottom.

H. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be placed by the end of the workday.

I. See plans for pier sizes, reinforcing and depth.

J. The contractor shall verify depths of piers before pier steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.

2465 DRILLED PIERS (CONT)

K. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in piers.

L. Top of pier shall be of the specified diameter. Form top of pier if required to maintain the specified diameter. Any concrete extending beyond the specified diameter shall be removed.

M. Temporary steel casing may be required during pier drilling operations. Prior to the placement of concrete, any seepage water shall be removed from the pier holes. Special construction procedures in accordance with ACI 336.1 and ACI 336.3R and specifications shall be followed during extraction of the casing and during concrete placement.

N. Contractor shall include in bid documents, unit-costs for casing if required and unit-cost for greater and lesser depth of drilling for each pier size.

O. All piers shall be inspected by a representative of [XX] in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report.

P. The contractor shall make and maintain accurate records of the drilled pier depths, bearing stratum, depth of penetration into bearing stratum, diameter and location (including off center eccentricities), and shall submit this information to the Engineer.

3000 CAST-IN-PLACE CONCRETE

A. Structural Concrete Code: Building Code Requirements for Structural Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.

B. Classes of Concrete

1. All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

2. Concrete Mix Schedule:

Conc Class	Strength psi	Agg Type	Max Agg Size	Slump Inches	Max w/c	Notes
A	3000	NWT	3/4"	3-5	---	For foundation

   a. "NWT" refers to normal concrete having an dry unit weight of approximately 145 pcf (ASTM C33 AGGREGATE)
   b. Where the w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.
   c. Where the w/c ratio is shown, it shall be adhered to regardless of the strength requirements.
   d. Strength" is required compressive cylinder strength at an age of 28 days.
   e. "Maximum aggregate size" is defined as first sieve with greater than 15 cumulative percent retained.

C. Fly ash shall not be used in architecturally exposed concrete.

D. Provide 4 1/2 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.

E. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

F. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, and the following:

1. Conduits and pipes running within a slab, beam, or wall shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam and shall be located within the middle third of that thickness.

2. Conduits, pipes, and sleeves passing horizontally through a beam shall not be larger in outside dimension than 1/3 the overall depth of the beam and shall be located within the middle third of that depth.

3. Conduits, pipes, and sleeves passing vertically through a beam shall utilize a sleeve not larger in outside dimension than 1/3 the overall width of the beam or 6 inches (whichever is less). The sleeve shall be made of hot dip galvanized schedule 40 steel.

4. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.

G. Concrete placements shall not exceed 10,000 square feet or 100 linear feet on each side without prior approval by the Engineer for each placement.

H. Void Forms: Shall be the product of a reputable manufacturer regularly engaged in commercial production of void forms.

1. Void form composition shall be of corrugated paper material with a moisture resistant exterior and an interior fabrication of a uniform cellular configuration, composed of components constructed of double-faced wax-impregnated (partially or fully), corrugated fiberboard that is laminated with moisture resistant adhesive.

2. Design and maintain void forms to support all vertical and lateral loads that might be applied during construction until such loads can be supported by the concrete structure.

3. Form material shall be designed to lose its strength under prolonged contact with the moisture which normally accumulates beneath slabs and beams on grade.

I. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck.

J. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2.3. Each proposed mix design shall be accompanied by a record of past performance or by three laboratory trial mixtures with confirmation tests

3200 CONCRETE REINFORCING

A. Concrete reinforcement for the project shall conform to the following:

1. All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.

2. Deformed Bar Anchors. ASTM A1064 minimum yield strength 70,000 psi as noted on the Structural Drawings. Reinforcing bars shall not be substituted for deformed bar anchors.

3. Welded wire reinforcement. Welded smooth wire reinforcement, ASTM A1064, yield strength 65,000 psi where noted on the Structural Drawings. Welded wire reinforcement to be provided in flat sheets.

B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.

C. Welded Wire Reinforcement shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2".

D. Reinforcement in Topping Slabs shall be welded smooth wire reinforcement minimum 6 x 6 W2.9 x W2.9 in all topping slabs unless specified otherwise on the Structural Drawings.

E. Reinforcement in housekeeping Pads shall be welded smooth wire reinforcement 6 x 6 W2.9 x W2.9 minimum in all housekeeping pads supporting mechanical equipment whether shown on the Structural Drawings or not unless heavier reinforcement is called for on the Structural Drawings.

F. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:

1. Class A lap beam top reinforcing bars at mid span.

2. Class A lap beam bottom reinforcing bars at the supports.

3. Provide Class B lap at other location pending Engineer's approval.

4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.

5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.

6. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.

G. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.

3200 CONCRETE REINFORCING (CONT)

H. Heat shall not be used in the fabrication or installation of reinforcement.

I. Reinforcing steel clear cover shall be as follows:

1. Beams	1-1/2" interior, 2" exterior exposure
2. Drilled Piers	3"
3. Earth-formed Grade Beams	1-1/2" top, 3" sides, 3" bottom
4. Formed Grade Beams	1-1/2" top, 2" sides, 3" bottom
5. One way slabs	3/4"
6. Slab-on-grade	3/4" top
7. Wide pan joists(beams)	1 1/2" interior, 2" exterior exposure

"Exterior Exposure refers to concrete exposed to earth or weather

J. Submittal: Submit shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Details and Detailing of Concrete Reinforcement". Do not reproduce the Structural Drawings for use as shop drawings.

3050 POST-INSTALLED ANCHORS AND DOWELS

A. Expansion Anchors shall be one of the following:

1. Concrete:

   a. Kwik Bolt TZ2, Hilti Inc.
   b. Strong Bolt, Simpson Strong-Tie
   c. Power-Stud+ SD1, DeWalt (Powers)

B. Screw Anchors shall be one of the following:

1. Concrete:

   a. Kwik HUS-EZ, Hilti Inc.
   b. Titen HD, Simpson Strong-Tie
   c. Screw-Bolt+, DeWalt (Powers)

C. Adhesive Anchors shall be one of the following:

1. Concrete:

   a. HIT-RE 500-V3, Hilti Inc.
   b. HIT-HY 200, Hilti Inc.
   c. Pure 220+, DeWalt (Powers)
   d. AC200+, DeWalt (Powers)
   e. SET 3G, Simpson Strong-Tie.

D. Adhesive Doweling

1. Adhesive doweling system shall be one of the following products:

   a. HIT RE 500-V3, Hilti Inc.
   b. Pure 220+, DeWalt (Powers)
   c. AC200+, DeWalt (Powers)
   d. SET 3G, Simpson Strong-Tie.

E. Install dowels in strict accordance with the adhesive manufacturer's instructions.

F. Clean out holes with compressed air after drilling per manufacturer's printed installation instructions or use manufacturer's alternate hole cleaning procedures.

G. Unless noted otherwise on the structural drawings, embedment depth shall be as required to develop full yield strength of the embedded dowels.

H. Prior to drilling holes for dowels, locate existing reinforcing steel with a Pachometer (R-Meter) or by drilling 1/4 inch diameter pilot holes. Relocate bolt holes as required to avoid existing reinforcement.

I. Anchors and dowels of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current ICC ES report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.

J. The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor locations can be adjusted by a maximum of 1 1/2 inch from detailed locations to avoid conflicts, unless noted otherwise. Submit an as-built of anchor locations to engineer.

K. Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.

L. Holes for anchors and dowels shall be drilled in a continuous operation using the bit type and size recommended by the anchor manufacturer. Diamond cored holes shall not be used unless noted otherwise on the structural drawings. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. All debris shall be blown out of the holes with compressed air after drilling.

M. All abandoned holes shall be filled with non-shrink grout.

N. Holes in connection plates shall be no more than 1/16 inch larger than the anchor diameter. If larger holes are required for erection purposes, Contractor shall notify Engineer such that a plate washer size can be provided.

O. Installation of anchors and dowels shall be continuously inspected by the testing agency to ensure that holes are of specified size, and that bolts are properly installed including application of minimum installation torques.

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ENGINEERING COMMUNITIES FROM THE GROUND UP
1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232
210.349.8088 ie-services.com
IES JOB NO. 1243412 TBPE FIRM F-432

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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JOSEPH H. HUIZAR
TEXAS REGISTRATION No: 87226
DATE: 02/28/25

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PROJECT NO: Project Number
DATE: February 28, 2025

STRUCTURAL NOTES

S0.01

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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S T R U C T U R A L N O T E S

5100 STRUCTURAL STEEL

A. Structural Steel Code: Specification for Structural Steel Buildings, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.

B. Material

1. All hot rolled steel members shall be new and conform to ASTM specification A6.
2. ASTM Specification and Grade. Clearly mark the grade on each member
3. Unless Noted otherwise on the Structural Drawings, structural steel members shall be:
   a. W-shapes shall conform to ASTM A992.
   b. Channels shall conform to ASTM A36.
   c. Angles shall conform to ASTM A36.
   d. Steel pipe shall conform to ASTM A53, Type E, Grade B.
   e. Round hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 46 ksi.
   f. Square or rectangular hollow structural shape members shall conform to ASTM A500 Grade C, Fy = 50 ksi.
   g. Structural steel plate shall conform to ASTM A36.
   h. Headed stud shear connectors shall conform to ASTM A108.
   i. Deformed bar anchors shall conform to ASTM A1064.
   j. Any other steel shall conform to ASTM A36.

C. Fabrication

1. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice(s) not shown and detailed on shop drawings will be rejected.
2. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise on the Structural Drawings.
3. Shop painting: Paint structural steel with one coat of manufacturer's standard red oxide primer applied at a rate to provide a uniform dry film thickness of 2.5 mils.

D. Erection

1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the Structural Drawings shall conform to the AISC Code of Standard Practice.
2. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.

E. Hot dip galvanize after fabrication all structural steel items and connections permanently exposed to the weather, whether specified on the Structural Drawings or not. Such items include, but are not limited to:

1. Shelf angles and/or loose lintels
2. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
3. Railing exposed to weather.
4. Examine the Architectural and Structural Drawings for other items required to be hot dip galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.

F. Submittal: Provide drawings showing details for fabrication and shop assembly of members, erection plans and details. Include details of connections, camber, and profiles and sizes and spacing. Shop and erection drawings shall not be made using reproductions of the Structural Drawings.

5110 STRUCTURAL STEEL CONNECTIONS

A. Welded Connections

1. All welding shall conform to ANSI/AWS D1.1, latest edition.
2. Fillet welds with no size specified shall be 3/16 inch or minimum size required by AISC, whichever is larger.

B. Bolted connections

1. Unless noted otherwise on the Structural Drawings, bolts shall be 3/4 inch diameter and conform to ASTM F3125 Grade A325. Bolts shall be designed using values for bearing type bolts with thread allowed in the shear plane.
2. Bolts shall be tightened to "snug tight" as defined by AISC, unless noted otherwise on the Structural Drawings.

C. Structural steel connections not specifically detailed on the Structural Drawings shall be designed and detailed by the Contractor under the direct supervision of a Professional Engineer licensed in the State of Texas. Sealed calculations for all connections designed by the Contractor shall be submitted for the Architect's files.

D. Beam connections shall be designed and detailed as follows, unless noted otherwise on the Structural Drawings:

1. Connections shall be AISC type 2 simple framing connections. Shear tab connections shall not be used unless specifically detailed on the Structural Drawings, or connections are designed and detailed by the fabricator's Professional Engineer licensed in the State of Texas and sealed calculations are submitted.

E. In general, shop connections shall be bolted or welded and field connections shall be bolted.

F. Where indicated, connections shall be designed for the forces specifically provided. The shear force is indicated on the Structural Drawings as "_K_". Tension is indicated as "T =_.Compression is indicated as "C =_". Horizontal shear is indicated as "H =_".

G. If not indicated on the Structural Drawings, connections shall be designed for 55 percent of the total load capacity for the beam span shown in the beam tables in the AISC Manual, fifteenth edition.

H. Short slotted holes shall be permitted provided washers are installed in accordance with AISC requirements. Washers shall be hardened where grade A325 bolts are utilized.

I. Wind brace connections shall be designed and detailed as follows, unless noted otherwise on the Structural Drawings:

1. Connections shall be welded.
2. Connections shall be designed and detailed by the fabricator's Professional Engineer licensed in the State of Texas for the forces shown on the Structural Drawings.
3. If forces are not indicated on the Structural Drawings, connections shall be designed to develop the full tensile capacity of the members.

J. Moment Connections

1. Where indicated, moment connections shall be designed for the scheduled moment envelope. The moment is indicated on the Structural Drawings as "(M =)".
2. If not indicated on the Structural Drawings, moment connections shall be welded to develop the full capacity of the member.
3. All welds denoted as moment connection or complete joint penetration (CJP) weld shall be ultrasonically or x-ray certified by an independent testing agency.

K. All beam shears, reactions, member forces, moments, etc. shown on the Structural Drawings are unfactored loads conforming to the requirements of AISC Allowable Strength Design (ASD).

L. All beam shears, reactions, member forces, moments, etc. shown on the Structural Drawings are factored loads conforming to the requirements of AISC Load and Resistance Factor Design (LRFD).

5110 STRUCTURAL STEEL CONNECTIONS (CONT)

M. Roof edge angles shall be continuous and shall be spliced only at supports. Splices shall be butt welded to develop full capacity of the member.

N. Base Plates

1. Column base plates shall be set to the elevation indicated on the Structural Drawings and leveled using shims or by double nuts on anchor bolts. Base plates shall then be grouted with a non-shrink, high strength nonmetallic grout. Tighten anchor bolts after supported members have been positioned and plumbed.
2. Hole sizes in base plates shall be oversized per AISC section J3.2. Hole sizes may be increased to the recommended maximum size listed for anchor rods in base plate table 14-2 of the 14th edition of the AISC Steel Construction Manual provided that plate washers, as required by this table, are utilized
3. Anchor rods shall be:
   a. Typical: ASTM F1554 Gr. 36.

O. For connections not specifically addressed by these notes or the Structural Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

5210 OPEN WEB JOISTS

A. Open web steel joists and joist girders shall conform to the Standard Specifications of the Steel Joist Institute (SJI). Chords of joists and joist girders shall be angles or tees.

B. Provide bridging in accordance with SJI Specifications and OSHA Standard 29 CFR-1926.757(C). Bridging shall be continuous through structural steel members, and shall be anchored to spandrel members or walls. Provide additional bridging where required for uplift.

C. See Design Loads section of the Structural Notes, roof framing plan(s), for joist design wind pressures.

D. Joist manufacturer shall design chords of joists and joist girders to support a nominal concentrically-applied load of 100 pounds between all panel points without requiring additional reinforcing. This additional load has been accounted for in the overall design loads and is not additive to those specified.

E. All hangers or attachments to joists shall be placed concentric with the top and bottom chord(s). Hangers with reactions in excess of 100 pounds must be located at the panel points of the joist, or the chord(s) shall be reinforced in accordance with the "Typical Details."

F. Provide flat bearing for all joists and joist girders. Bear joists on supports in accordance with SJI Specifications.

G. Joists shall be connected to their supports in accordance with SJI Specifications and as indicated by the joist manufacturer.

H. Shop painting: Joists shall receive a shop-coat of the joist manufacturer's standard rust inhibitive primer conforming to the Steel Structures Painting Council Specification, SSPC No. 15, or better.

I. Submittals: Submit shop drawings including setting plans and shop tickets indicating standard designations, bridging, camber, material strengths, spacing, joist seat extensions and connection details. Submit calculations for all joists and joist girders for which standard load tables are not applicable. Calculations shall be signed and sealed by a Professional Engineer licensed in the State of Texas. Calculations will be retained for the Architects file and shall not be approved or returned.

5311 METAL DECKS

A. Metal Roof Deck

1. Metal Roof Deck Schedule:

Location	Gauge	SDI Deck Type	Deck Depth (in)	Sheet Width (in)	Min I_p (in^4)	Min S_p (in^3)	Min S_n (in^3)
Typ UNO	22	WR	1.5	36	0.169	0.186	0.194
Typ UNO	20	WR	1.5	36	0.212	0.234	0.245

S_p = positive section in modulus in^3
S_n = negative section in modulus in^3
I_x = moment of inertia

2. Roof deck shall be galvanized as indicated on the Structural Drawings.
3. Sheet steel for galvanized roof deck and accessories shall conform to ASTM A653, Structural Steel, with a minimum yield strength of 33 ksi and a maximum yield strength of 80 ksi. Galvanizing shall conform to ASTM A653 with a minimum coating of G90 as defined in A653.
4. Roof deck shall be continuous over four or more supports.
5. Place deck panels on structural supports and adjust to final position with ends lapped 2 inches over structural supports. Provide minimum end bearing of 2 inches.
6. Roof deck connections shall be as follows:

Location	Support Connx Pattern	Support Fastener	Sidelap Fastener/ No. per Span, Typical
Building			
Zone 1	36/4	5/8" PVA	#10 Tek/3
Zone 2	36/7	5/8" PVA	#10 Tek/5
Zone 3	36/7	5/8" PVA	#10 Tek/5
Clerestory			
Interior Field	36/4	5/8" PVA	#10 Tek/3
Perimeter Band	36/7	5/8" PVA	#10 Tek/5
Corner Zones	36/7	5/8" PVA	#10 Tek/5

   a. See the Design Wind Load plans on sheet SXXX for locations and magnitudes of Zone 1, Zone 2, and Zone 3 roof wind loads.
   b. PVA = Puddle Weld
7. Power driven fasteners shall be selected by the Contractor for the combinations of deck gauge and support member thickness. Submit proposed fasteners with complete manufacturer's information, including diaphragm shear values for the Engineer to review.
   a. Power driven fasteners shall not be used where the deck support member thickness is less than 1/8 inch (10 gauge) unless permitted by applicable fastener test report, to be submitted for review by the Engineer.
8. Puddle welds not otherwise sized shall be 5/8" minimum diameter and shall be made through weld washers for decking lighter than 22 gauge. Weld washers shall be a minimum thickness of 0.030 inches and have a nominal 3/8 inch diameter hole. Weld washers shall not be used between supports along the sidelaps.
9. Accessories shall be attached to supporting structure or deck using mechanical fasteners or welds at a spacing not to exceed 12 inches on center.
10. Mechanical, electrical and plumbing systems shall not be supported by the metal roof deck.

B. Submittal: Submit deck layout plans and details indicating deck type, fastening methods and layout, support locations, projections, openings and reinforcement, and any other pertinent details and accessories.

100000 DESIGN BY CONTRACTOR

A. In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a Professional Engineer licensed in the State of Texas.

1. Steel Connections
2. Steel Joists
3. Metal Ladders
4. Guardrail and Handrail Systems
5. Cold Formed Metal Framing
6. Pre-Fabricated Awnings and Canopies
7. Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.

B. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

STRUCTURAL ABBREVIATIONS

A/C -	AIR CONDITIONER
AB -	ANCHOR BOLT
ABV -	ABOVE
ACI -	AMERICAN CONCRETE INSTITUTE
ADDL -	ADDITIONAL
ADH -	ADHESIVE
ADJ -	ADJACENT
AEC -	ARCHITECTURALLY EXPOSED CONCRETE
AESS -	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF -	ABOVE FINISHED FLOOR
AGGR -	AGGREGATE
AHU -	AIR HANDLING UNIT
AISC -	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT -	ALTERNATE
APPROX -	APPROXIMATE
ARCH -	ARCHITECT (OR) ARCHITECTURAL
B TO B -	BACK TO BACK
BD -	BOARD
B.O. -	BOTTOM OF
BF -	BACK FACE
BFF -	BELOW FINISH FLOOR
BIL -	BOTTOM INSIDE LAYER
BL -	BUILDING LINE
BLDG -	BUILDING
BLKG -	BLOCKING
BM -	BEAM
BOL -	BOTTOM OUTSIDE LAYER
BOS -	BOTTOM OF STEEL
BOTT -	BOTTOM
BP -	BASE PLATE
BRDG -	BRIDGING
BRG -	BEARING
BRKT -	BRACKET
BRL -	BRICKLEDGE
BSMT -	BASEMENT
BTWN -	BETWEEN
C -	CAMBER (OR) COMPRESSION
CANT -	CANTILEVER
CFS -	COLD FORMED STEEL
CG -	CENTER OF GRAVITY
CGS -	CENTER OF GRAVITY OF STRAND
CIP -	CAST-IN-PLACE
CJ -	CONTROL JOINT
CJP -	COMPLETE JOINT PENETRATION
CL -	CENTER LINE
CLG -	CEILING
CLR -	CLEAR (OR) CLEARANCE
CMU -	CONCRETE MASONRY UNIT
COL -	COLUMN
C OR COMP -	COMPRESSION
CONC -	CONCRETE
CONN(S) -	CONNECTION(S)
CONST -	CONSTRUCTION
CONST JT -	CONSTRUCTION JOINT
CONT -	CONTINOUS
CONTR -	CONTRACTOR
COORD -	COORDINATE
CVR -	COVER
DBA -	DEFORMED BAR ANCHORS
DBL -	DOUBLE
DE -	DECK EDGE
DEV -	DEVELOPMENT
DFL -	DOUGLAS FIR LARCH
DIA -	DIAMETER
DIAG -	DIAGONAL
DIM(S) -	DIMENSION(S)
DKG -	DECKING
DL -	DEAD LOAD
DN -	DOWN
DS -	DOWNSPOUT
DTL -	DETAIL
DWG(S) -	DRAWING(S)
DWL(S) -	DOWELS
EA -	EACH
EF -	EACH FACE (OR) EXHAUST FAN
EJ -	EXPANSION JOINT
EL -	ELEVATION
ELEC -	ELECTRICAL
ELEV -	ELEVATOR
EMBED -	EMBEDMENT
ENGR -	ENGINEER
EOR -	ENGINEER OF RECORD
EQ -	EQUAL (OR) EQUIVALENT
EQUIP -	EQUIPMENT
EW -	EACH WAY
EXIST -	EXISTING
EXP -	EXPANSION
EXT -	EXTERIOR
EXTN -	EXTENSION
F TO F -	FACE TO FACE
FABR -	FABRICATOR
FD -	FLOOR DRAIN
FDN -	FOUNDATION
FFE -	FINISHED FLOOR ELEVATION
FIN -	FINISH (OR) FINISHED
FIN FL -	FINISHED FLOOR
FL -	FLOOR
FLG -	FLANGE
FP -	FIREPROOF(ING)
FRMG -	FRAMING
FS -	FAR SIDE
FT -	FOOT (OR) FEET
FTG -	FOOTING
FV -	FIELD VERIFY
GA -	GAGE (OR) GAUGE
GALV -	GALVANIZED
GC -	GENERAL CONTRATOR
GLULAM -	GLUE LAMINATED TIMBER
GR -	GRADE
GR BM -	GRADE BEAM
HB -	HORIZONTAL BRACE
HCA -	HEADED CONCRETE ANCHOR
HDG -	HOT DIPPED GALVANIZED
HDR -	HEADER
HI -	HIGH
HK -	HOOK
HL -	HOLE
HORIZ -	HORIZONTAL
HP -	HIGH POINT
HS -	HEADED STUD
HSS -	HOLLOW STRUCTURAL SECTION
HT -	HEIGHT
ID -	INSIDE DIAMETER
IF -	INSIDE FACE
IN -	INCH
INFO -	INFORMATION
INT -	INTERIOR
INTERM -	INTERMEDIATE
JG -	JOIST GIRDER
JST(S)	JOIST(S)
JT -	JOINT
K -	KIPS (1000 LBS)
KLF -	KIP PER LINEAR FOOT
KSF -	KIP PER SQUARE FOOT
KSI -	KIP PER SQUARE INCH
L -	LENGTH
LBS -	POUNDS
LL -	LIVE LOAD
LLH -	LONG LEG HORIZONTAL
LLV -	LONG LEG VERTICAL
LO -	LOW
LOC -	LOCATION
LONG -	LONGITUDINAL
LP -	LOW POINT
LSH -	LONG SIDE HORIZONTAL
LSL -	LONG SLOTTED HOLES
LSV -	LONG SIDE VERTICAL
LVL -	LAMINATED VENEER LUMBER
LW -	LIGHTWEIGHT
LWC -	LIGHTWEIGHT CONCRETE
M -	MOMENT
MAS -	MASONRY
MATL -	MATERIAL
MAX -	MAXIMUM
MC -	MOMENT CONNECTION(S)
MECH -	MECHANICAL
MEP -	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ -	MEZZANINE
MFR -	MANUFACTURER
MID -	MIDDLE
MIN -	MINIMUM
MISC -	MISCELLANEOUS
MTL -	METAL
NF -	NEAR FACE
NIC -	NOT IN CONTRACT
NOM -	NOMINAL
NS -	NON-SHRINK
NTS -	NOT TO SCALE
OC -	ON CENTER
OCEW -	ON CENTER EACH WAY
OD -	OUTSIDE DIAMETER (OR) OVERFLOW DRAIN
OF -	OUTSIDE FACE
OH -	OPPOSITE HAND
OPNG(S) -	OPENING(S)
OPP -	OPPOSITE
P -	PAN
P/C -	PRECAST CONCRETE
P/E -	PRE-ENGINEERED
PAT -	POWDER ACTUATED FASTENER
PAR. -	PARALLEL
PCF -	POUNDS PER CUBIC FOOT
PEMB -	PRE-ENGINEERED METAL BUILDING
PERP -	PERPENDICULAR
PI -	PLASTICITY INDEX
PJ -	PANEL JOINT
PJP -	PARTIAL JOINT PENETRATION
PL -	PLATE
PLF -	POUNDS PER LINEAR FOOT
PLYWD -	PLYWOOD
PREFAB -	PREFABRICATED
PRELIM -	PRELIMINARY
PROJ -	PROJECTION
PSF -	POUNDS PER SQUARE FOOT
PSI -	POUNDS PER SQUARE INCH
PSL -	PARALLEL STRAND LUMBER
PT -	POINT (OR) PRESSURE TREATED
P-T -	POST-TENSION(ED)
QTY -	QUANTITY
R -	RADIUS (OR) REACTION (OR) REMAINDER
RD -	ROOF DRAIN
REINF -	REINFORCE(ING/ED)(MENT)
REQ -	REQUIREMENT)
REQD -	REQUIRED
RET -	RETAINING
RET SYS -	RETENTION SYSTEM
RF -	ROOF
RIS -	RISER
RM -	ROOM
RO -	ROUGH OPENING
RTU -	ROOF TOP UNIT
SCHED -	SCHEDULE(D)
SECT -	SECTION
SF -	SQUARE FOOT
SHT -	SHEET
SHTG -	SHEATHING
SIM -	SIMILAR
SJI -	STEEL JOIST INSTITUTE
SL -	SLOPE
SOG -	SLAB ON GRADE
SP -	SOUTHERN PINE
SPA -	SPACE
SPECD -	SPECIFIED
SPEC(S) -	SPECIFICATION(S)
SQ -	SQUARE
SS -	STAINLESS STEEL
SSL -	SHORT SLOTTED HOLE
STAGG -	STAGGERED
STD -	STANDARD
STIFF -	STIFFENER
STIRR -	STIRRUPS
STL -	STEEL
STRUCT -	STRUCTURE (OR) STRUCTURAL
SUBCONTR -	SUBCONTRACTOR
SW -	SHEARWALL (OR) SIDEWALK
T -	TENSION
T.O. -	TOP OF
T&B -	TOP AND BOTTOM
T&G -	TONGUE AND GROOVE
TEMP -	TEMPERATURE
THK -	THICK
THRD -	THREAD(ED)
TIL -	TOP INSIDE LAYER
TOB -	TOP OF BEAM
TOC -	TOP OF CONCRETE
TOF -	TOP OF FOOTING
TOJ -	TOP OF JOIST
TOL -	TOP OUTSIDE LAYER
TOP -	TOP OF PIER
TOPC -	TOP OF PIER (PILE) CAP
TOS -	TOP OF STEEL
TOW -	TOP OF WALL
TR -	TREAD
TRANSV -	TRANSVERSE
TYP -	TYPICAL
UNO -	UNLESS NOTED OTHERWISE
V -	SHEAR
VB -	VERTICAL BRACE
VERT -	VERTICAL
W -	WIDTH
W/ -	WITH
W/O -	WITHOUT
WD -	WOOD
WDW -	WINDOW
WL -	WIND LOAD
WP -	WORK POINT
WPFG -	WATERPROOFING
WS -	WATERSTOP
WT -	WEIGHT
WWM -	WELDED WIRE MESH
X-STR -	EXTRA STRONG
XX-STR -	DOUBLE EXTRA STRONG

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232
210.349.8098 IN-SHP.COM
IES JOB NO: 1243412 TBPE FIRM F-432

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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JOSEPH H. HUIZAR
TEXAS REGISTRATION No: 87226
DATE: 02/28/25

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PROJECT NO: Project Number
DATE: February 28, 2025

STRUCTURAL NOTES AND ABBREVIATIONS

S0.02

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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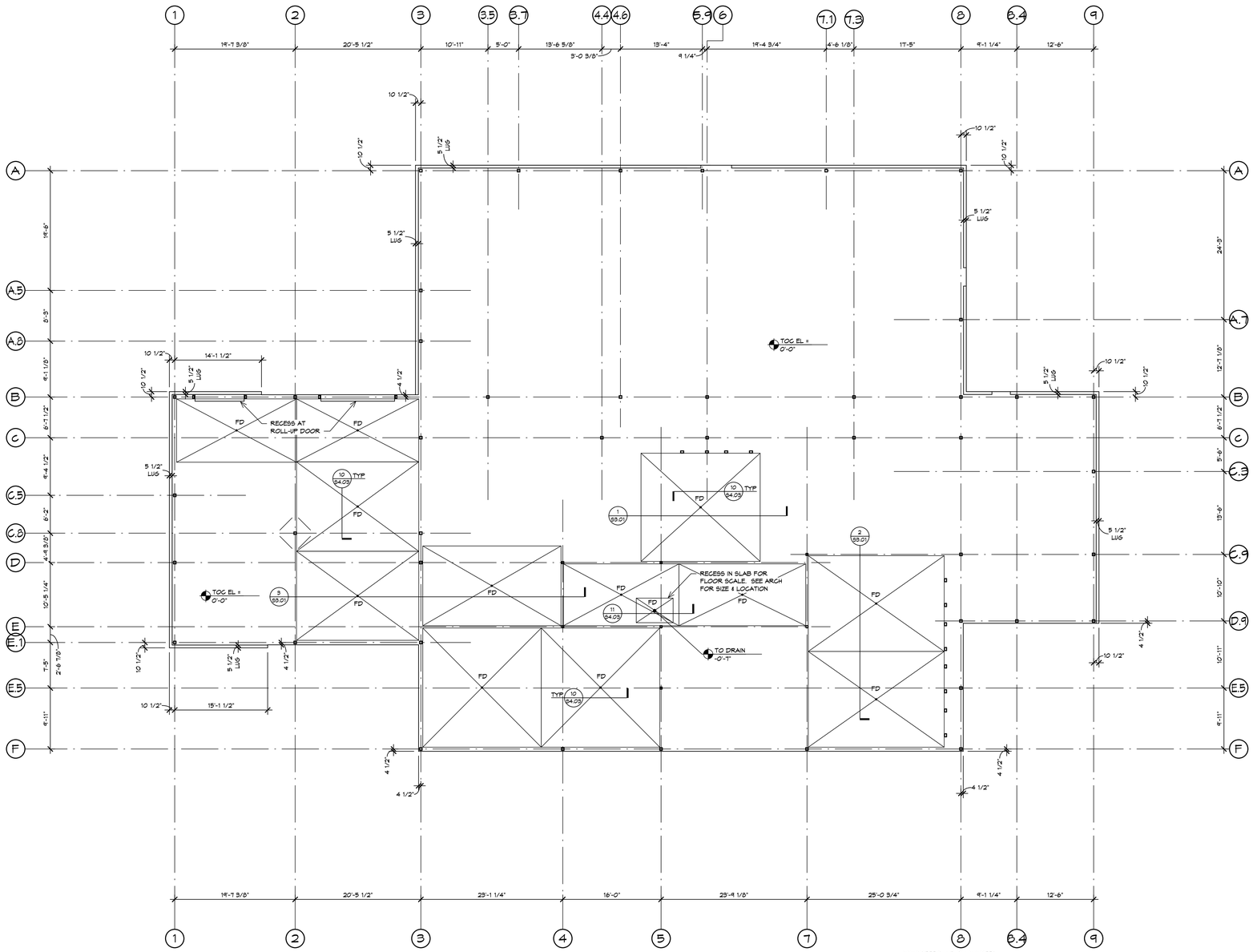

north

1 SLAB PLAN
SCALE: 1/8" = 1'-0"

CONCRETE SLAB PLAN NOTES:

1. FINISH FLOOR ELEVATION = 0'-0", UNLESS NOTED OTHERWISE. ACTUAL ELEVATION 380.50" = 0'-0".
2. TOP OF CONCRETE ELEVATION (TOC EL.) = FINISH FLOOR UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. FD = FLOOR DRAIN. TOP OF ALL FLOOR DRAINS IS 1" BELOW THE TOC ELEVATION, UNLESS NOTED OTEHRWISE.
6. TYPICAL CONCRETE SLAB THICKNESS IS 5" (OVERALL), UNLESS NOTED OTHERWISE.
7. SEE S2.01 FOR ADDITIONAL INFORMATION FOR THE CONCRETE FOUNDATION.

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1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232
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IES JOB NO: 1243412 TBPE FIRM F-432

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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TEXAS REGISTRATION No: 87236
DATE: 02/28/25

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PROJECT NO: Project Number
DATE: February 28, 2025

SLAB PLAN

S2.00

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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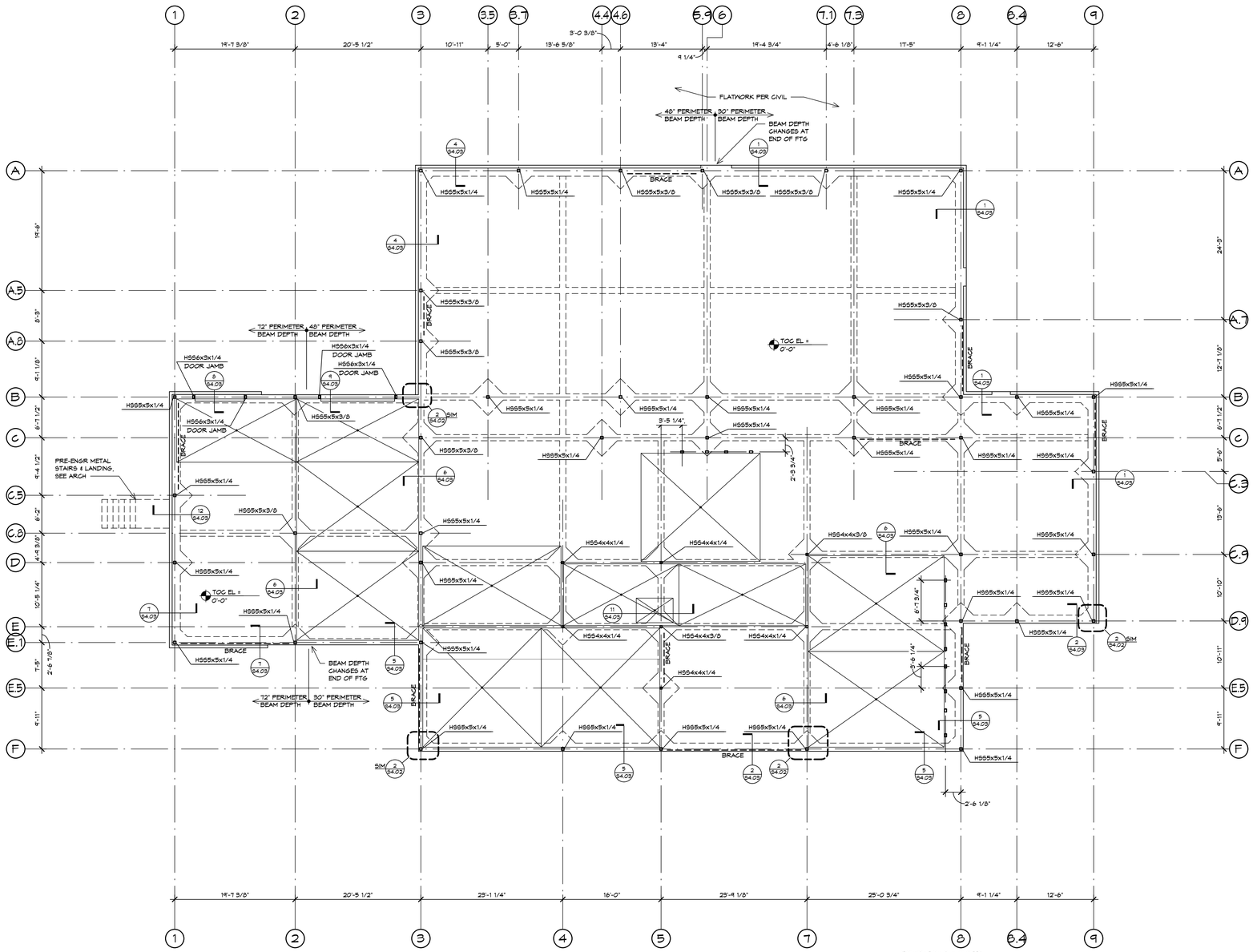

north

1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FINISH FLOOR ELEVATION = 0'-0", UNLESS NOTED OTHERWISE. ACTUAL ELEVATION 380.50' = 0'-0".
2. TOP OF CONCRETE ELEVATION (TOC EL.) = FINISH FLOOR UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. TYPICAL CONCRETE SLAB THICKNESS IS 5" (OVERALL), UNLESS NOTED OTHERWISE.
4. SEE S2.00 FOR ADDITIONAL DIMENSIONS AND ADDITIONAL INFORMATION ON THE CONCRETE SLAB.
5. SEE SCHEDULE ON 1/S4.02 FOR WIDEN BEAM/FOOTING SIZE AND DETAILS.
6. COLUMN BASE PLATE DESIGNATION BP-XX, SEE FOR DETAILS.

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FOUNDATION PLAN

S2.01

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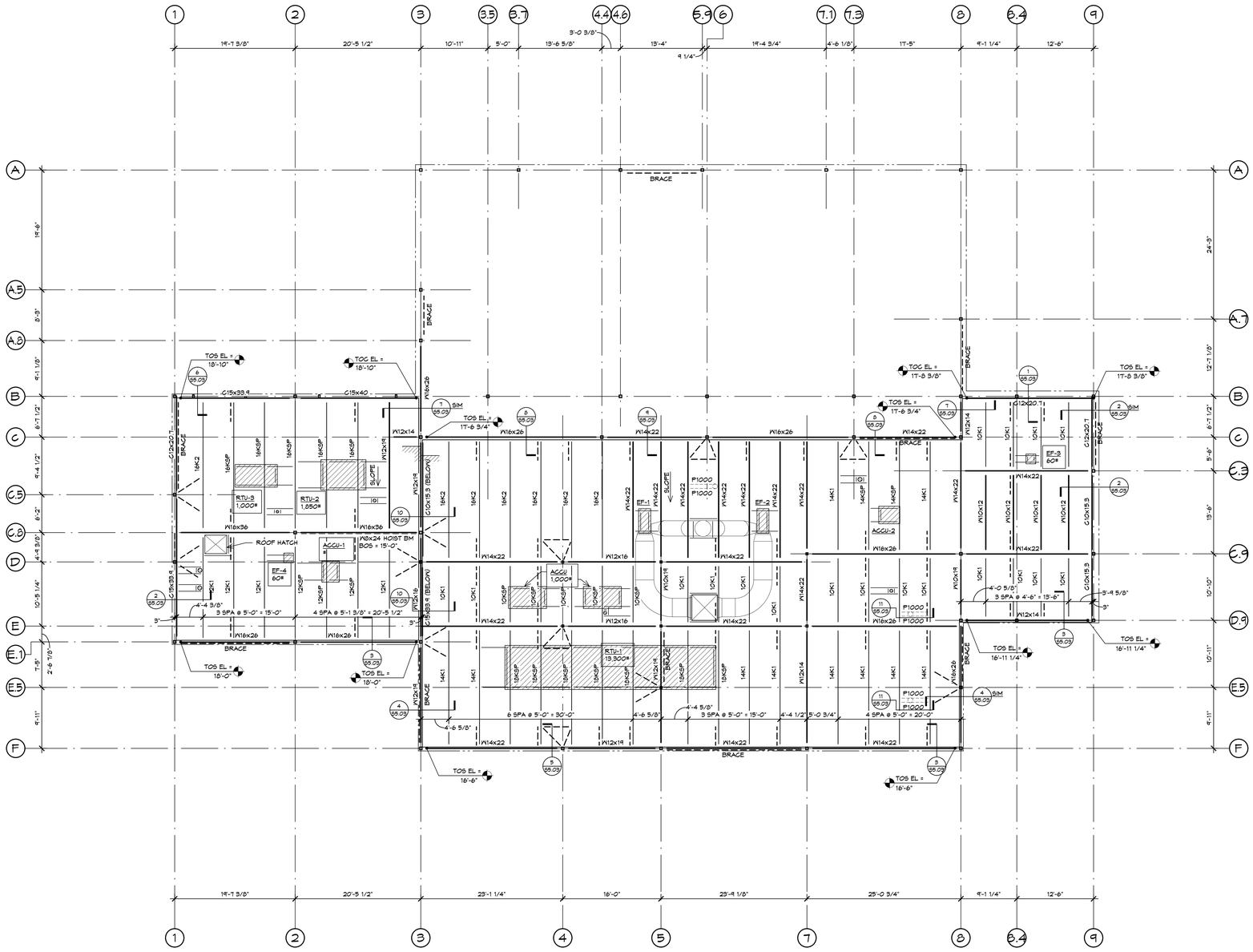

1 MAIN ROOF FRAMING PLAN

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

north

PLAN NOTES:

1. TOP OF STEEL ELEVATION (TOS EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
2. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE ELEVATIONS NOTED ON THE PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
3. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
4. SEE STRUCTURAL NOTES FOR STEEL ROOF DECK.

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DESIGNED BY: Designer

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
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MAIN ROOF FRAMING PLAN

S2.02

DRG REFERENCE

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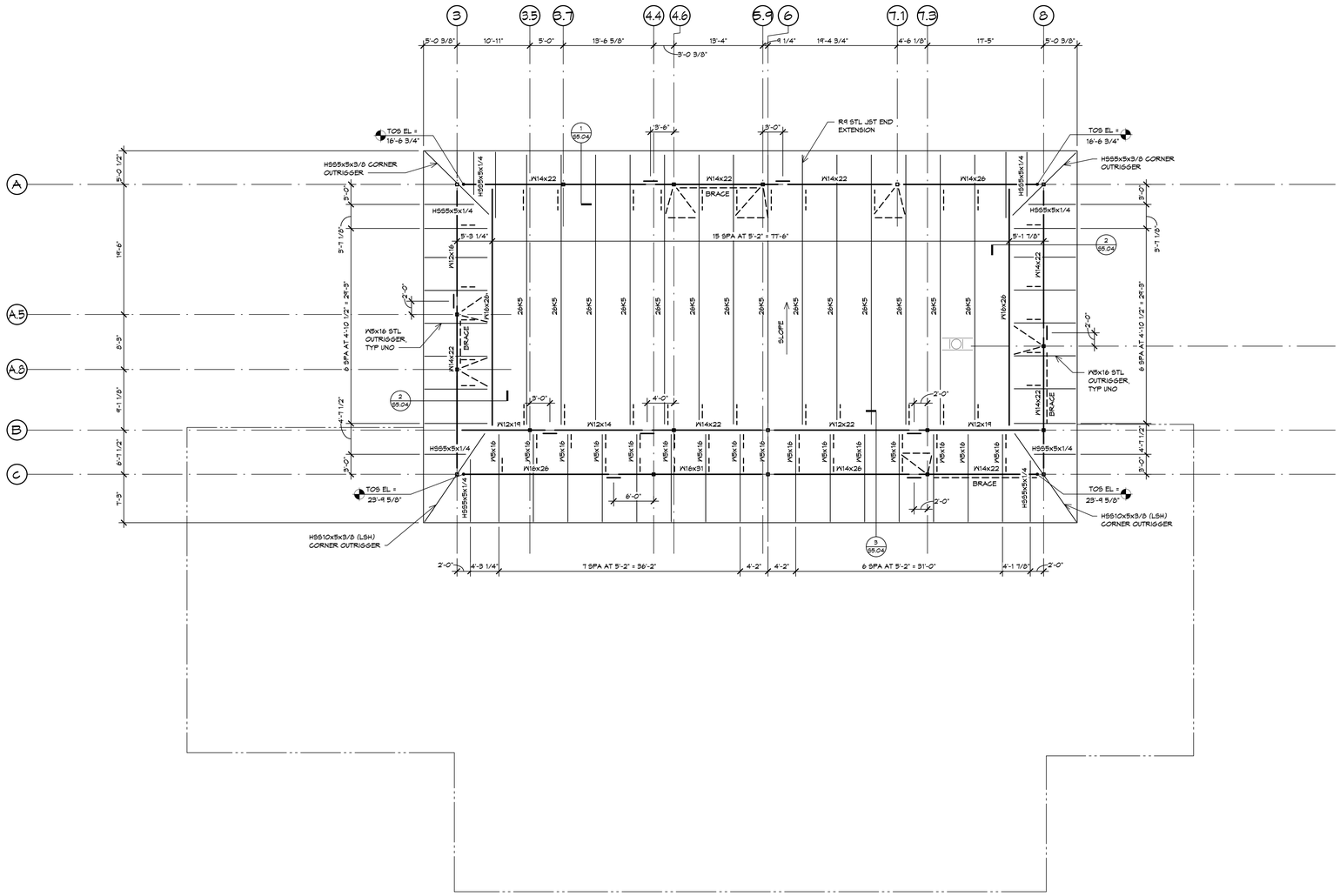

north

1 HIGH ROOF FRAMING PLAN

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

PLAN NOTES:

1. TOP OF STEEL ELEVATION (TOS EL) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
2. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE ELEVATIONS NOTED ON THE PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
3. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
4. SEE STRUCTURAL NOTES FOR STEEL ROOF DECK.

DRAWN BY: Author
DESIGNED BY: Designer

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ENGINEERING COMMUNITIES FROM THE GROUND UP
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HIGH ROOF FRAMING PLAN

S2.03

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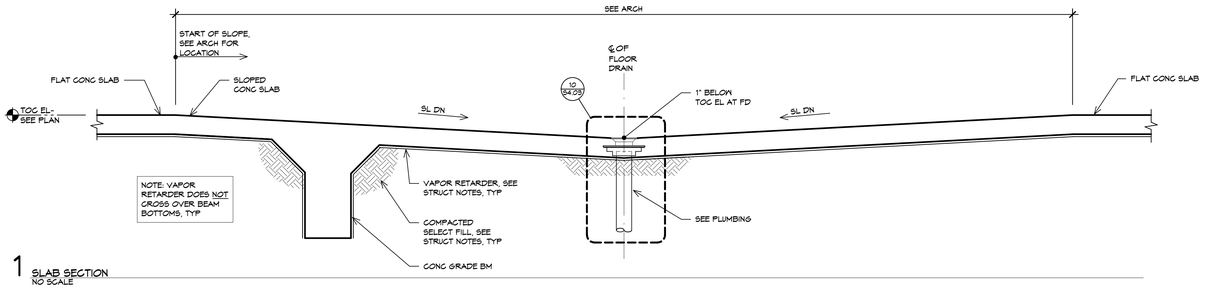
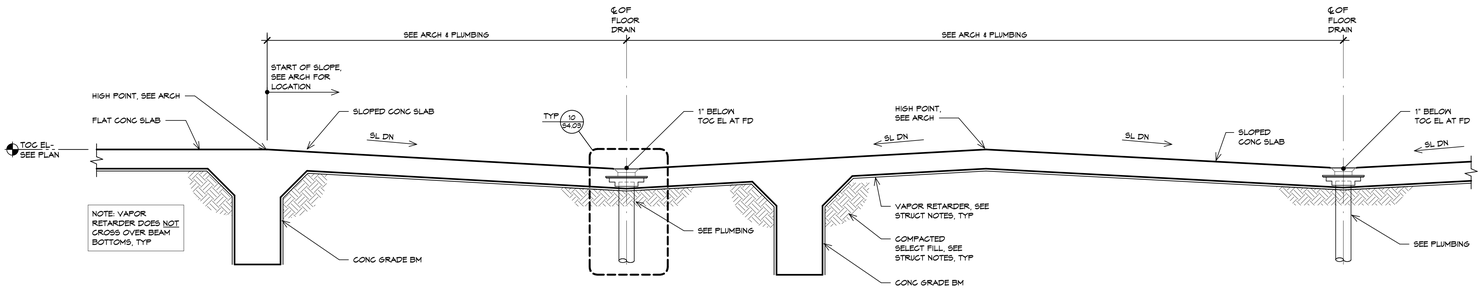
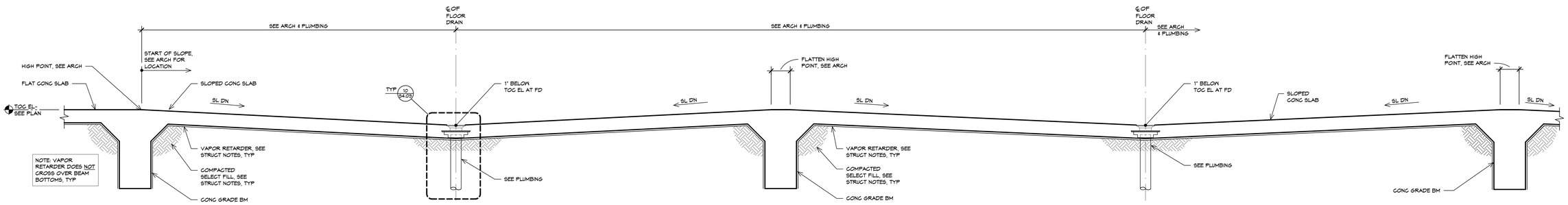


1 SLAB SECTION
NO SCALE



2 SLAB SECTION
NO SCALE



3 SLAB SECTION
NO SCALE

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DESIGNED BY: Designer

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210.349.8098 ies-services.com
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13300 OLD BLANCO RD.
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SAN ANTONIO, TEXAS 78216
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SLAB SECTIONS

S3.01

DRG REFERENCE

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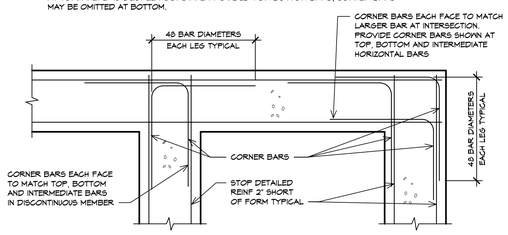
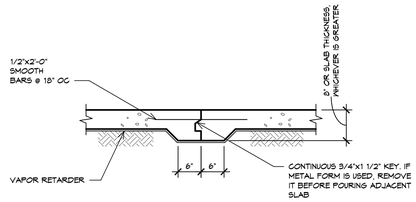
NOTES:

1. MATCH SIZE, LOCATION AND NUMBER OF HORIZONTAL BEAM AND WALL BARS, EXCEPT THAT WHERE THERE ARE MORE THAN 2 TOP OR BOTTOM BARS, ONLY THE INSIDE AND OUTSIDE BARS MUST BE MATCHED.
2. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR TOP BARS CORNER BARS MAY BE OMITTED AT TOP. WHERE NO DEGREE HOOKS ARE PROVIDED FOR BOTTOM BARS, CORNER BARS MAY BE OMITTED AT BOTTOM.

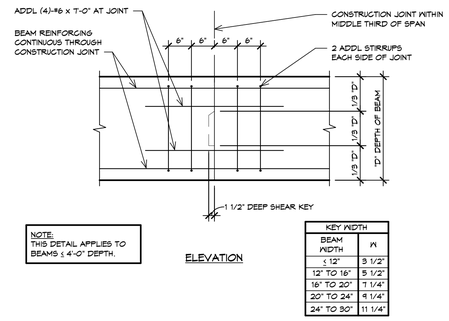


PLAN

1 TYPICAL CORNER BARS AT GRADE BEAM INTERSECTION DETAIL
NO SCALE



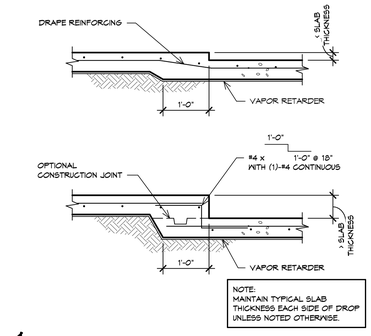
2 TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL
NO SCALE



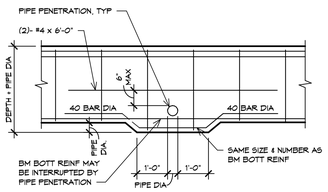
ELEVATION

KEY WIDTH	
BEAM WIDTH	W
< 12"	3 1/2"
12" TO 16"	5 1/2"
16" TO 20"	7 1/4"
20" TO 24"	9 1/4"
24" TO 30"	11 1/4"

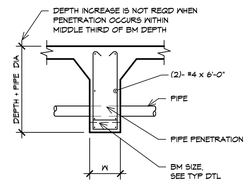
3 TYPICAL CONCRETE BEAM CONSTRUCTION JOINT DETAIL
NO SCALE



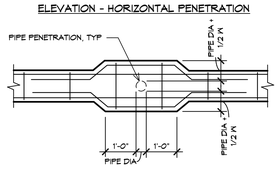
4 TYPICAL DROP IN SLAB-ON-GRADE DETAIL
NO SCALE



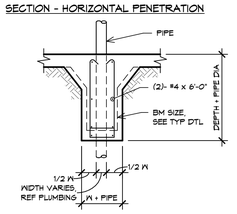
ELEVATION - HORIZONTAL PENETRATION



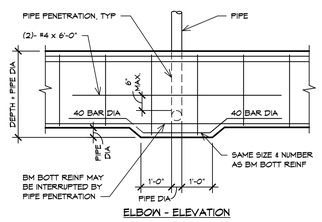
SECTION - HORIZONTAL PENETRATION



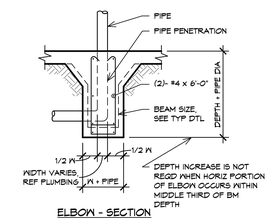
PLAN VIEW
VERTICAL PENETRATION



SECTION - VERTICAL PENETRATION



ELBOW - ELEVATION

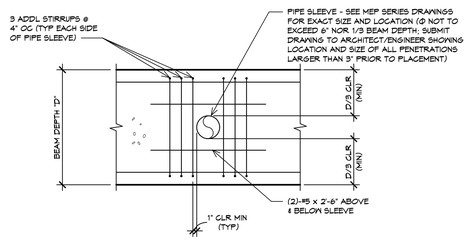


ELBOW - SECTION

NOTES:

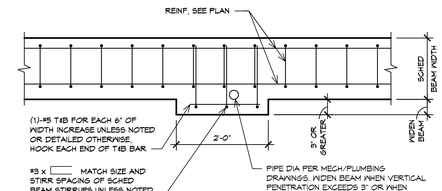
1. THIS DETAIL APPLIES TO HORIZ PENETRATIONS THAT OCCUR OUTSIDE OF THE MIDDLE THIRD OF THE BM DEPTH AND TO ALL VERT PENETRATIONS AND ALL ELBOWS. FOR HORIZ BM PENETRATIONS THAT OCCUR IN THE MIDDLE THIRD OF THE BM DEPTH, SEE DETAIL#S4.01
2. PERIMETER BM PENETRATION SHALL BE SLEEVED.
3. FOR PIPE SLEEVES LARGER THAN 4" O.D., ADJACENT PIPE PENETRATIONS SHALL HAVE A MINIMUM CLR OF THE LARGER PIPE SLEEVE DIA BTWN THEM.

5 TYPICAL GRADE BEAM PENETRATION
NO SCALE



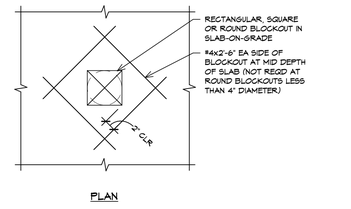
ELEVATION

6 TYPICAL HORIZONTAL GRADE BEAM PENETRATION DETAIL
NO SCALE



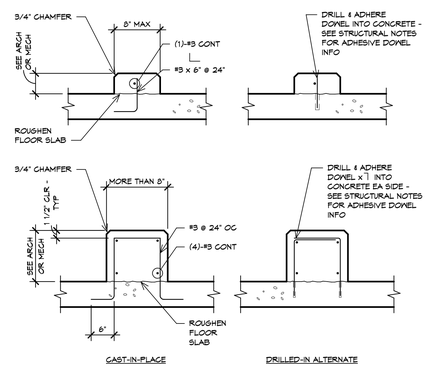
PLAN

7 TYPICAL GRADE BEAM VERTICAL PENETRATION
SCALE: 3/4" = 1'-0"



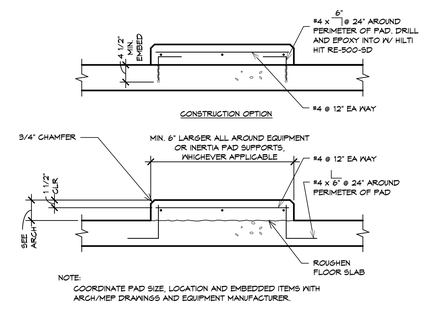
PLAN

8 TYPICAL ADDITIONAL REINFORCING AT BLOCKOUT IN SLAB-ON-GRADE < 3'-0" DETAIL
NO SCALE

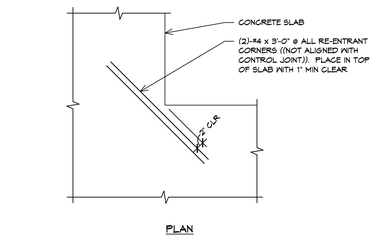


CAST-IN-PLACE DRILLED-IN ALTERNATE

10 TYPICAL CONCRETE CURB DETAILS
NO SCALE



11 TYPICAL MECHANICAL EQUIPMENT PAD DETAIL
SCALE: 3/4" = 1'-0"



PLAN

9 TYPICAL SLAB RE-ENTRANT CORNER REINFORCING DETAIL
NO SCALE

Ld TENSION DEVELOPMENT LENGTH (GRADE 60 BARS - NORMAL WEIGHT CONCRETE)						
BAR SIZE	f'c = 3000 psi		f'c = 4000 psi		f'c = 5000 psi	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	1'-10"	1'-5"	1'-7"	1'-3"	1'-5"	1'-1"
#4	2'-5"	1'-10"	2'-1"	1'-7"	1'-11"	1'-5"
#5	3'-0"	2'-4"	2'-7"	2'-0"	2'-4"	1'-10"
#6	3'-7"	2'-9"	3'-1"	2'-5"	2'-10"	2'-2"
#7	5'-3"	4'-0"	4'-6"	3'-6"	4'-1"	3'-2"
#8	6'-0"	4'-7"	5'-2"	4'-0"	4'-8"	3'-7"
#9	6'-9"	5'-2"	5'-10"	4'-6"	5'-3"	4'-0"
#10	7'-7"	5'-10"	6'-7"	5'-1"	5'-11"	4'-6"
#11	8'-5"	6'-6"	7'-3"	5'-7"	6'-6"	5'-0"

BASIC TENSION LAP SPLICES-CLASS B (GRADE 60 BARS - NORMAL WEIGHT CONCRETE)						
BAR SIZE	f'c = 3000 psi		f'c = 4000 psi		f'c = 5000 psi	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	2'-4"	1'-10"	2'-1"	1'-7"	1'-10"	1'-5"
#4	3'-2"	2'-5"	2'-8"	2'-1"	2'-5"	1'-11"
#5	3'-11"	3'-0"	3'-5"	2'-7"	3'-0"	2'-4"
#6	4'-8"	3'-7"	4'-1"	3'-1"	3'-8"	2'-10"
#7	6'-4"	5'-3"	5'-11"	4'-6"	5'-3"	4'-1"
#8	7'-4"	6'-0"	6'-4"	5'-2"	6'-0"	4'-8"
#9	8'-4"	6'-4"	7'-7"	5'-10"	6'-4"	5'-3"
#10	9'-10"	7'-7"	8'-6"	6'-7"	7'-8"	5'-11"
#11	10'-11"	8'-5"	9'-6"	7'-3"	8'-6"	6'-6"

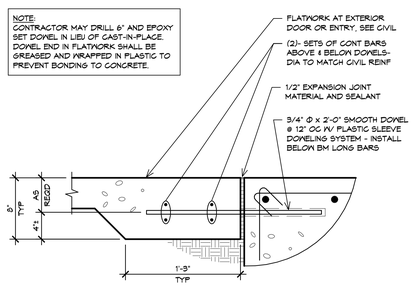
Ldh HOOK DEVELOPMENT LENGTH (GRADE 60 BARS - NORMAL WEIGHT CONCRETE)			
BAR SIZE	f'c = 3000 psi	f'c = 4000 psi	f'c = 5000 psi
#3	0'-9"	0'-8"	0'-7"
#4	0'-11"	0'-10"	0'-9"
#5	1'-2"	1'-0"	0'-11"
#6	1'-5"	1'-3"	1'-1"
#7	1'-8"	1'-5"	1'-3"
#8	1'-10"	1'-7"	1'-5"
#9	2'-1"	1'-10"	1'-8"
#10	2'-4"	2'-1"	1'-10"
#11	2'-7"	2'-3"	2'-0"

NOTES:

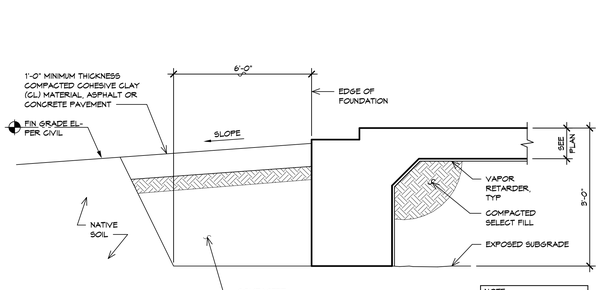
1. BAR SPACING NOT LESS THAN 2 BAR DIAMETERS, CLEAR COVER NOT LESS THAN 1 BAR DIAMETER.
2. FOR CONCRETE STRENGTHS (f'c) NOT SPECIFICALLY LISTED IN SCHEDULES ABOVE, USE CLOSEST LOWER CONCRETE STRENGTH VALUE.
3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR OR SPLICE.

12 TYPICAL REINFORCEMENT DEVELOPMENT LENGTHS & LAP SPLICES SCHEDULES (GRADE 60 REINFORCEMENT)
NO SCALE

NOTE: CONTRACTOR MAY DRILL 6" AND EPOXY SET DOWEL IN LIEU OF CAST-IN-PLACE. DOWEL END IN FLATWORK SHALL BE GREASED AND WRAPPED IN PLASTIC TO PREVENT BONDING TO CONCRETE.



13 TYPICAL FLATWORK AT EXTERIOR DOORS AND ENTRIES DETAIL
NO SCALE



14 TYPICAL EXTERIOR BEAM SECTION FOR BUILDING PAD
SCALE: 3/4" = 1'-0"

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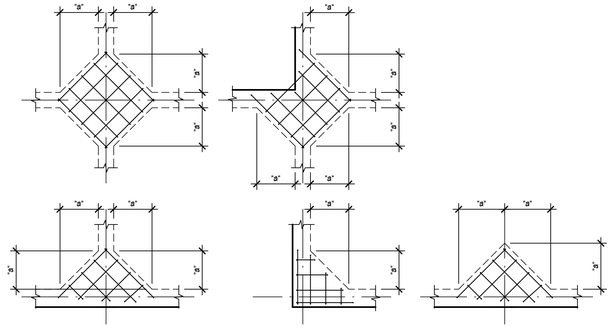
PROJECT NO: Project Number
DATE: February 28, 2025

TYPICAL FOUNDATION DETAILS

S4.01

DRG REFERENCE

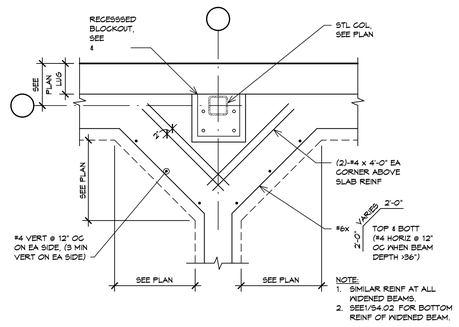
DRAWN BY: Author
DESIGNED BY: Designer



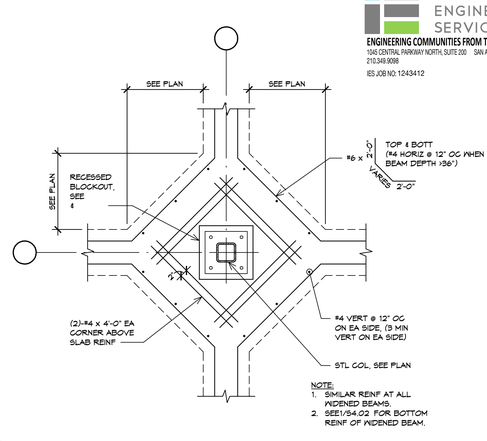
1 TYPICAL BOTTOM OF WIDEN BEAM REINFORCEMENT LAYOUT
NO SCALE

WIDEN BEAM / FOOTING SCHEDULE				
MARK	"a"	DEPTH	REINFORCING	REMARKS
F3	3'-0"	2'-6"	#3 AT 9" OC EW	NOTE 2
F4	4'-0"	2'-6"	#3 AT 9" OC EW	NOTE 2
F5	5'-0"	2'-6"	#3 AT 9" OC EW	NOTE 2
F6	6'-0"	2'-6"	#3 AT 9" OC EW	NOTE 2

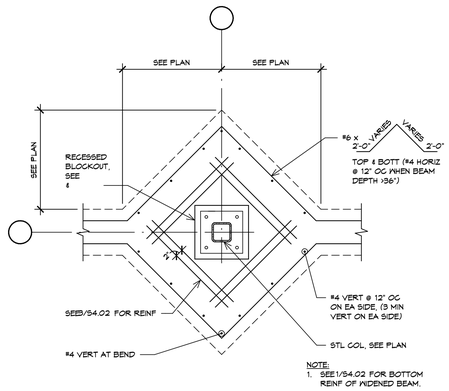
NOTE:
1. SEE 2/S4.02, 3/S4.02, AND 4/S4.02 FOR VERTICAL & OTHER ADDITIONAL REINFORCEMENT WITHIN CONCRETE WIDEN BEAM/ FOOTINGS.
2. WIDEN BEAM/FOOTING DEPTHS SHALL MATCH THE DEPTH OF THE DEEPEST INTERSECTION GRADE BEAM.



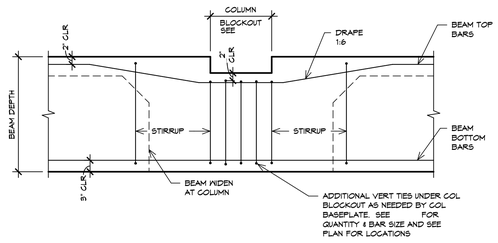
2 TYPICAL PERIMETER WIDENED BEAM PLAN
NO SCALE



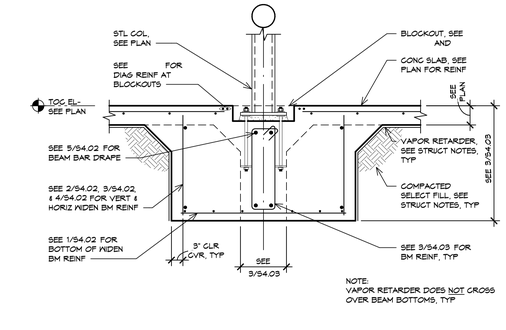
3 TYPICAL INTERIOR WIDENED BEAM PLAN
NO SCALE



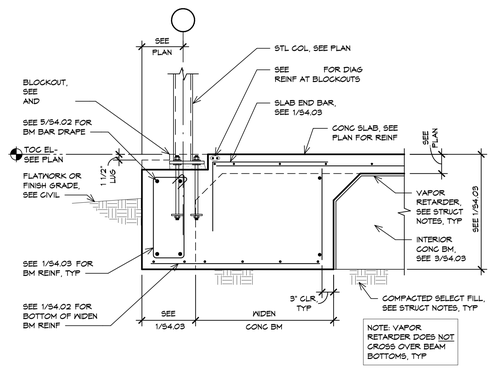
4 TYPICAL INTERIOR WIDENED BEAM PLAN WITH ONE INTERSECTING GRADE BEAM
SCALE: 3/4" = 1'-0"



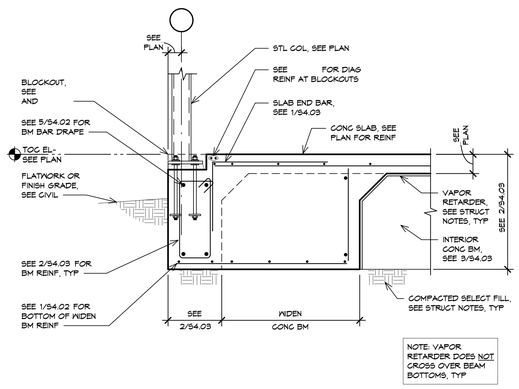
5 TYPICAL BEAM REINFORCEMENT ELEVATION AT COLUMN BLOCKOUT
NO SCALE



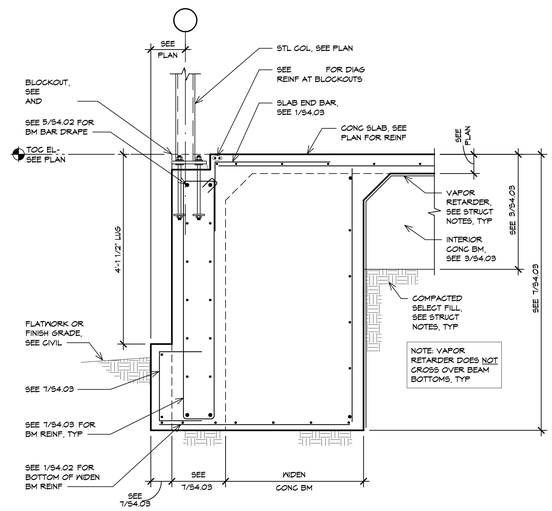
6 TYPICAL INTERIOR CONCRETE WIDEN BEAM AT COLUMN
SCALE: 3/4" = 1'-0"



7 PERIMETER CONCRETE WIDEN BEAM AT COLUMN WITH BRICK LUG
SCALE: 3/4" = 1'-0"



8 PERIMETER CONCRETE WIDEN BEAM AT COLUMN WITH NO LUG
SCALE: 3/4" = 1'-0"



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

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232
210.349.8066 IN-INFO@IES.COM
IES JOB NO: 1243412 TBPE FIRM F-432

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

INTERIM REVIEW DOCUMENTS
NOT INTENDED FOR BIDDING, PERMIT OR CONSTRUCTION PURPOSES
JOSEPH H. HUIZAR
TEXAS REGISTRATION No: 87226
DATE: 02/28/25

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER OFFICE

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PROJECT NO: Project Number
DATE: February 28, 2025

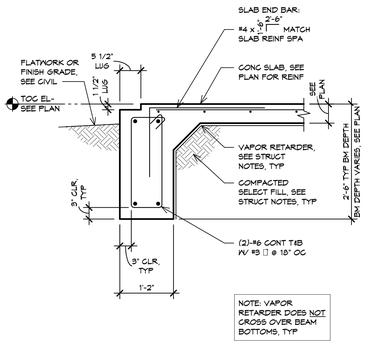
FOUNDATION DETAILS AND SECTIONS

S4.02

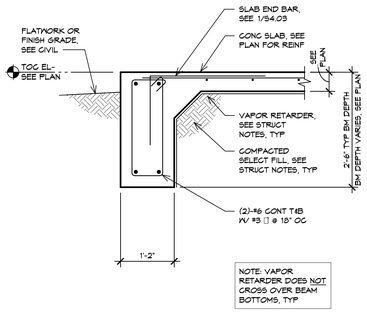
DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

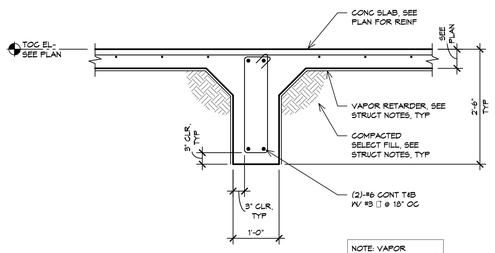
2/28/2025 2:23:53 PM



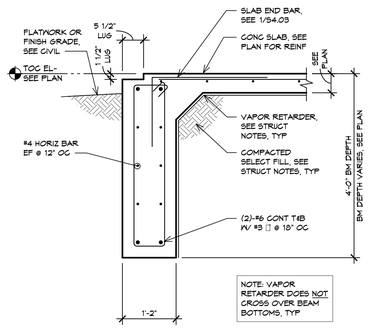
1 PERIMETER CONCRETE BEAM WITH BRICK LUG
SCALE: 3/4" = 1'-0"



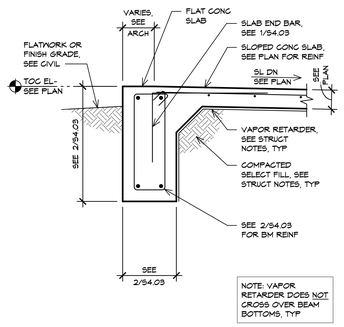
2 PERIMETER CONCRETE BEAM WITH NO LUG
SCALE: 3/4" = 1'-0"



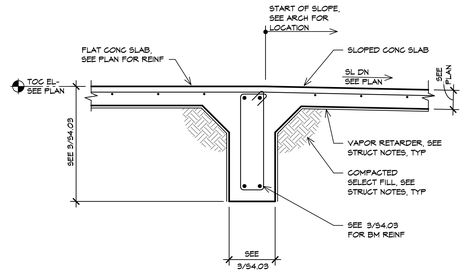
3 TYPICAL INTERIOR CONCRETE BEAM
SCALE: 3/4" = 1'-0"



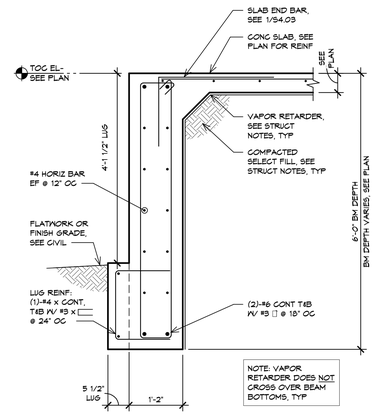
4 SECTION
SCALE: 3/4" = 1'-0"



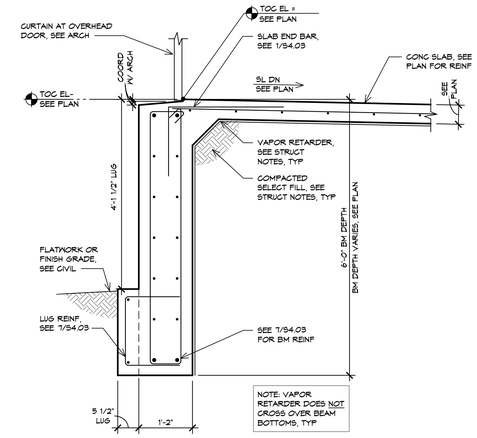
5 SECTION
SCALE: 3/4" = 1'-0"



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



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



8 SECTION
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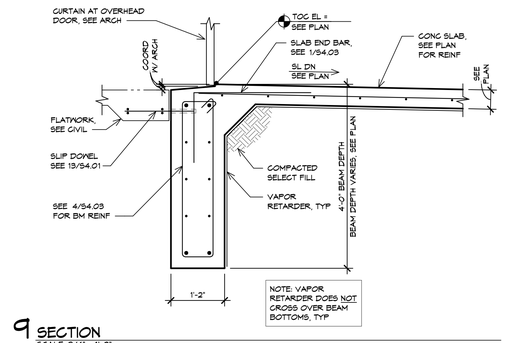
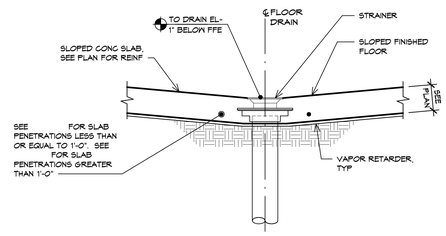
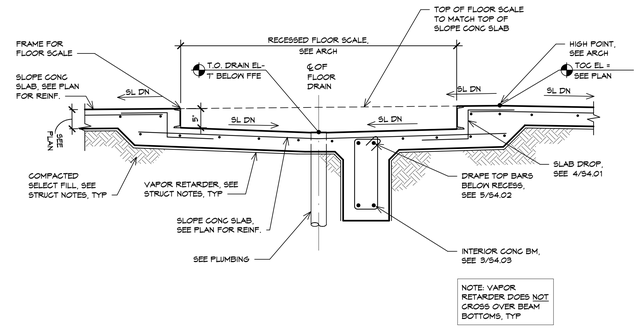


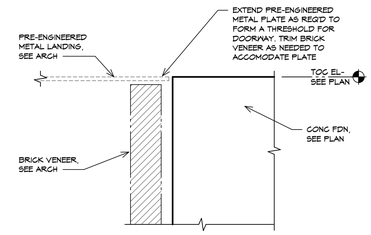
9 SECTION
SCALE: 3/4" = 1'-0"



10 TYPICAL FLOOR DRAIN DETAIL
NO SCALE



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



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

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232
210.349.8066 IN-WHY.COM
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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
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TEL: (210) 349-7950
FAX: (210) 366-0847

INTERIM REVIEW DOCUMENTS
NOT INTENDED FOR BIDDING, PERMIT OR CONSTRUCTION PURPOSES
JOSEPH H. HUIZAR
TEXAS REGISTRATION No: 87226
DATE: 02/28/25

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER OFFICE

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PROJECT NO: Project Number
DATE: February 28, 2025

FOUNDATION DETAILS AND SECTIONS

S4.03

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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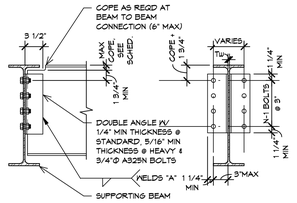


WELDS "A" (3 SIDES)
STANDARD CONN - 5/16"
HEAVY CONN - 1/4"

MIN WEB THICKNESS "Tw"
STANDARD CONN - 0.286"
HEAVY CONN - 0.381"

WELDED/BOLTED CONNECTION - TOP FLANGE COPED

BEAM SIZE	MAX COPE DEPTH	STANDARD NO. OF ROWS OF BOLTS (N)	STANDARD LRFD - MAX BEAM REACTION (KIPS)	HEAVY NO. OF ROWS OF BOLTS (N)	HEAVY LRFD - MAX BEAM REACTION (KIPS)
W8	1"	2	14	-	N.A.
W10	1 1/2"	2	23	-	N.A.
W12	1 1/2"	2	36	3	36
W14	1 1/2"	3	54	-	N.A.
W16	2"	3	76	4	80
W18	2 1/2"	3	76	4	101
W21	3 1/2"	4	101	5	125
W24	3 1/2"	5	125	6	149
W27	5"	5	125	6	149
W30	5"	6	149	7	174
W33	5"	7	174	8	198
W36	5"	8	198	9	222
W40	5"	9	222	10	246
W44	5"	10	246	11	271

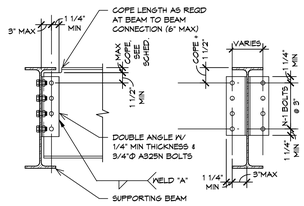
NOTES:

A. CONTRACTOR SHALL PROVIDE SIGNED & SEALED CALCULATIONS FOR ANY CONNECTION THAT CAN NOT BE SELECTED FROM THE PROVIDED TABLES IN STRUCTURAL DRAWINGS. CONNECTION ANGLES AND WELDS SHALL NOT BE LESS THAN THAT SHOWN.

B. RIGHT ANGLE CONNECTIONS SHALL BE DOUBLE ANGLE AS SCHEDULED. SKEWED CONNECTIONS SHALL BE BENT DOUBLE ANGLES OR BENT PLATES, SEE SB-4.

C. NOTED REACTIONS ARE FOR ULTIMATE DESIGN STRENGTH LOADS (LRFD).

D. SEE STRUCTURAL NOTES SECTION "STRUCTURAL STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.



WELD "A" (3 SIDES)
STANDARD CONN - 5/16"
HEAVY CONN - 1/4"

ALL BOLTED CONNECTION - TOP FLANGE COPED

BEAM SIZE	MAX COPE DEPTH	STANDARD NO. OF ROWS OF BOLTS (N)	STANDARD LRFD - MAX BEAM REACTION (KIPS)	HEAVY NO. OF ROWS OF BOLTS (N)	HEAVY LRFD - MAX BEAM REACTION (KIPS)
W8	1"	2	14	-	N.A.
W10	1 1/2"	2	23	-	N.A.
W12	1 1/2"	2	26	3	36
W14	1 1/2"	3	44	-	N.A.
W16	2"	3	48	4	63
W18	2 1/2"	3	57	4	76
W21	3 1/2"	4	88	5	110
W24	3 1/2"	5	124	6	149
W27	5"	5	125	6	149
W30	5"	6	149	7	174
W33	5"	7	174	8	198
W36	5"	8	198	9	222
W40	5"	9	222	10	246
W44	5"	10	246	11	271

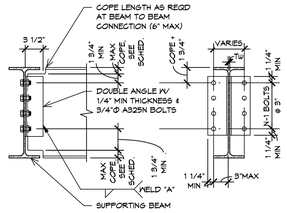
NOTES:

A. CONTRACTOR SHALL PROVIDE SIGNED & SEALED CALCULATIONS FOR ANY CONNECTION THAT CAN NOT BE SELECTED FROM THE PROVIDED TABLES IN STRUCTURAL DRAWINGS. CONNECTION ANGLES AND WELDS SHALL NOT BE LESS THAN THAT SHOWN. PROVIDE SHORT-SLOTTED HOLES IN SUPPORTED BEAM.

B. RIGHT ANGLE CONNECTIONS SHALL BE DOUBLE ANGLE AS SCHEDULED. SKEWED CONNECTIONS SHALL BE BENT DOUBLE ANGLES OR BENT PLATES, SEE SB-4.

C. NOTED REACTIONS ARE FOR ULTIMATE DESIGN STRENGTH LOADS (LRFD).

D. SEE STRUCTURAL NOTES SECTION "STRUCTURAL STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.

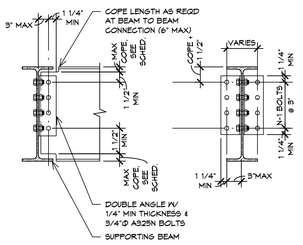


WELDS "A" (3 SIDES)
STANDARD CONN - 5/16"
HEAVY CONN - 1/4"

MIN WEB THICKNESS "Tw"
STANDARD CONN - 0.286"
HEAVY CONN - 0.381"

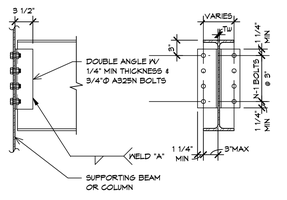
WELDED/BOLTED CONNECTION - BOTH FLANGES COPED

BEAM SIZE	MAX COPE DEPTH	STANDARD NO. OF ROWS OF BOLTS (N)	STANDARD LRFD - MAX BEAM REACTION (KIPS)	HEAVY NO. OF ROWS OF BOLTS (N)	HEAVY LRFD - MAX BEAM REACTION (KIPS)
W8	1"	2	8	-	N.A.
W10	1 1/2"	2	12	-	N.A.
W12	1 1/2"	2	22	3	22
W14	1 1/2"	3	36	-	N.A.
W16	1 1/2"	3	55	4	55
W18	1 1/2"	3	76	4	88
W21	2"	4	101	5	125
W24	2"	5	125	6	149
W27	2"	5	125	7	174
W30	2"	6	149	8	198
W33	2 1/2"	7	174	9	222
W36	2 1/2"	8	198	10	246
W40	3"	9	222	11	271
W44	3"	10	246	12	285



ALL BOLTED CONNECTION - BOTH FLANGES COPED

BEAM SIZE	MAX COPE DEPTH	STANDARD NO. OF ROWS OF BOLTS (N)	STANDARD LRFD - MAX BEAM REACTION (KIPS)	HEAVY NO. OF ROWS OF BOLTS (N)	HEAVY LRFD - MAX BEAM REACTION (KIPS)
W8	1"	2	8	-	N.A.
W10	1 1/2"	2	12	-	N.A.
W12	1 1/2"	2	22	3	22
W14	1 1/2"	3	36	-	N.A.
W16	1 1/2"	3	48	4	55
W18	1 1/2"	3	57	4	76
W21	2"	4	88	5	110
W24	2"	5	124	6	149
W27	2"	5	125	7	174
W30	2"	6	149	8	198
W33	2 1/2"	7	174	9	222
W36	2 1/2"	8	198	10	246
W40	3"	9	222	11	271
W44	3"	10	246	12	285

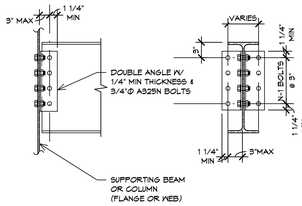


WELDS "A" (3 SIDES)
STANDARD CONN - 5/16"
HEAVY CONN - 1/4"

MIN WEB THICKNESS "Tw"
STANDARD CONN - 0.286"
HEAVY CONN - 0.381"

WELDED/BOLTED CONNECTION - UNCOPED

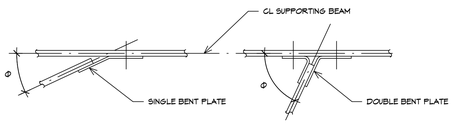
BEAM SIZE	STANDARD NO. OF ROWS OF BOLTS (N)	STANDARD LRFD - MAX BEAM REACTION (KIPS)	HEAVY NO. OF ROWS OF BOLTS (N)	HEAVY LRFD - MAX BEAM REACTION (KIPS)
W8	2	34	-	N.A.
W10	2	44	-	N.A.
W12	2	44	3	67
W14	3	76	-	N.A.
W16	3	76	4	101
W18	3	76	5	125
W21	4	101	6	149
W24	5	125	7	174
W27	5	125	7	174
W30	6	149	8	198
W33	7	174	9	222
W36	8	198	10	246
W40	9	222	11	271
W44	10	246	12	285



ALL BOLTED CONNECTION - UNCOPED

BEAM SIZE	STANDARD NO. OF ROWS OF BOLTS (N)	STANDARD LRFD - MAX BEAM REACTION (KIPS)	HEAVY NO. OF ROWS OF BOLTS (N)	HEAVY LRFD - MAX BEAM REACTION (KIPS)
W8	2	26	-	N.A.
W10	2	29	-	N.A.
W12	2	30	3	48
W14	3	55	-	N.A.
W16	3	60	4	82
W18	3	72	5	117
W21	4	101	6	149
W24	5	125	7	174
W27	5	125	7	174
W30	6	149	8	198
W33	7	174	9	222
W36	8	198	10	246
W40	9	222	11	271
W44	10	246	12	285

1 TYPICAL STEEL BEAM TO COLUMN AND BEAM TO BEAM CONNECTION DETAILS
NO SCALE



Ø ≤ 60°

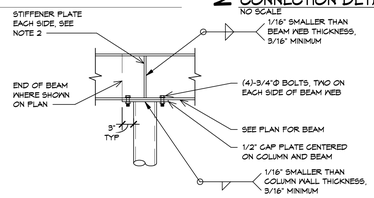
1. DESIGN CONNECTION FOR SINGLE SHEAR AND ECCENTRICITY.

60° ≤ Ø

1. WHERE "Ø" > 85° USE BENT DOUBLE ANGLES IN LIEU OF BENT PLATES.

5 TYPICAL SKEWED SIMPLE FRAMING CONNECTIONS DETAIL
NO SCALE

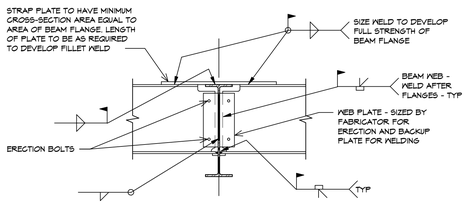
2 TYPICAL STEEL BEAM TO COLUMN AND BEAM TO BEAM CONNECTION DETAILS
NO SCALE



NOTES:

1. SEE ROOF PLAN FOR ROOF SLOPE. SLOPE CAP PLATES ACCORDINGLY.
2. STIFFENER PLATES SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM WEB THICKNESS, WHICHEVER IS GREATER (3/8" MINIMUM).
3. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION, SEE SCP-5A.

6 TYPICAL CAP PLATE - BOLTED CONNECTION DETAIL
NO SCALE



7 TYPICAL MOMENT CONNECTION DETAIL
NO SCALE

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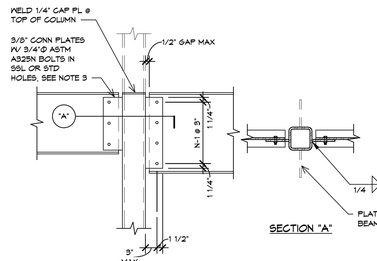
210.349.8098 IN-SHP.COM
IES JOB NO: 1243412 TBPE FIRM F-432



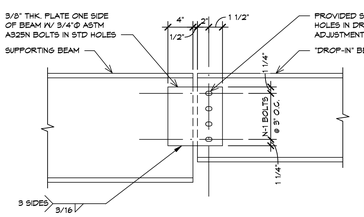
SECTION "A"

BEAM SIZE	PLATE LENGTH (L)	# OF BOLTS (N)	MAX FACTORED BEAM REACTIONS (KIPS)
W8	5 1/2"	2	14
W10	5 1/2"	2	14
W12	8 1/2"	3	32
W14	8 1/2"	3	32
W16	11 1/2"	4	51
W18	14 1/2"	5	71
W21	17 1/2"	6	90
W24	17 1/2"	6	90
W27	20 1/2"	7	109
W30	23 1/2"	8	128
W33	26 1/2"	9	146
W36	29 1/2"	10	164
W40	32 1/2"	11	181
W44	35 1/2"	12	198

NOTES:

1. CONNECTIONS SHALL DESIGNED FOR THE REACTIONS SHOWN ON PLANS BY THE CONTRACTOR'S LICENSED ENGINEER OR SELECTED FROM THE ABOVE TABLE. IF SHEAR REACTION SHOWN ON PLANS IS LESS THAN THE TABULATED MAXIMUM FACTORED BEAM REACTION AND NO OTHER REACTIONS ARE INDICATED, TABLE ABOVE ONLY APPLIES IF ALL OF THE FOLLOWING ARE MET:
   A. COLUMN WALL THICKNESS IS 1/4" OR GREATER.
   B. BEAM IS PERPENDICULAR TO COLUMN.
   C. BEAM FLANGES ARE UNCOPED.
   D. CONNECTION PLATE IS GRADE 36.
2. NOTED REACTIONS ARE FOR ULTIMATE DESIGN STRENGTH LOADS (LRFD).
3. PROVIDE SHORT SLOTTED HOLES IN CONNECTION PLATE WHEN N ≥ 5 AND ELSEWHERE AT CONTRACTOR OPTION.
4. BOLTS ARE 3/4" DIAMETER ASTM A325N, TYPICAL.
5. SEE "STRUCTURAL STEEL CONNECTIONS" IN THE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

3 TYPICAL BEAM WEB TO PIPE COLUMN CONNECTION
NO SCALE



SMALLER BEAM SIZE	NO. OF ROWS OF BOLTS (N)	LRFD - MAX BEAM REACTION (KIPS)
W8	2	17
W10	2	17
W12	3	34
W14	3	34
W16	4	56
W18	4	56
W21	5	66
W24	5	66

NOTES:

1. CONTRACTOR SHALL PROVIDE SIGNED & SEALED CALCULATIONS FOR ANY CONNECTION THAT CAN NOT BE SELECTED FROM THE PROVIDED TABLES IN STRUCTURAL DRAWINGS.
2. NOTED REACTIONS ARE FOR ULTIMATE DESIGN STRENGTH LOADS (LRFD).
3. SEE STRUCTURAL NOTES SECTION "STRUCTURAL STEEL CONNECTIONS" FOR ADDITIONAL INFORMATION.

4 TYPICAL WELDED/ BOLTED SINGLE PLATE BEAM SPLICE DETAIL
NO SCALE

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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TEXAS REGISTRATION No: 87226
DATE: 02/28/25

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PROJECT NO: Project Number
DATE: February 28, 2025

TYPICAL STEEL DETAILS

S5.01

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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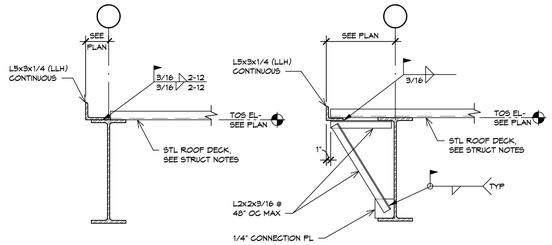
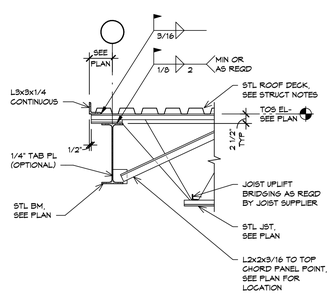


SECTION "A"

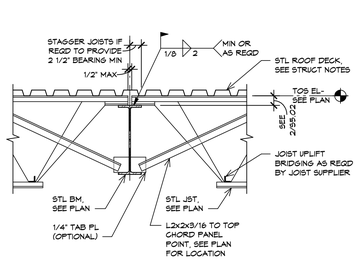
SECTION "B"

NOTES:
1. REFER TO FOR ATTACHMENT OF LIGHT GAUGE METAL STUDS TO ROOF EDGE ANGLE.
2. USE SECTION "B" WHEN MIN OVERLAP OF ANGLE ON BEAM OF 1" CANNOT BE MAINTAINED.

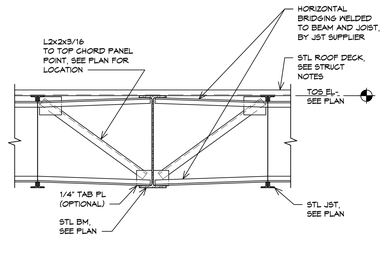
1 TYPICAL EXTERIOR BEAM PARALLEL TO JOISTS DETAIL
NO SCALE



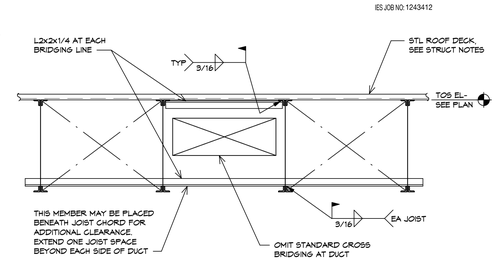
2 TYPICAL KCS OR K SERIES STEEL JOIST BEARING ON PERIMETER BEAM DETAIL
NO SCALE



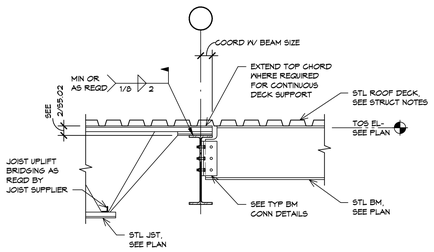
3 TYPICAL KCS OR K SERIES STEEL JOIST BEARING ON INTERIOR BEAM DETAIL
NO SCALE



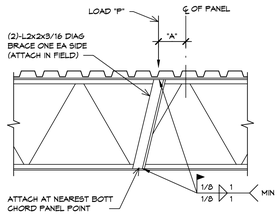
4 TYPICAL KCS OR K SERIES STEEL JOIST PARALLEL TO INTERIOR BEAM DETAIL
NO SCALE



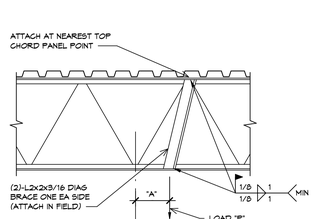
5 TYPICAL DUCT OPENING AT CROSS BRIDGING DETAIL
NO SCALE



6 TYPICAL EXTENDED TOP CHORD FOR DECK SUPPORT DETAIL
NO SCALE



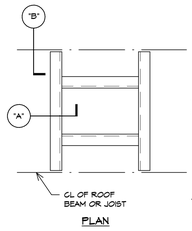
LOAD ON TOP CHORD



LOAD ON BOTTOM CHORD

NOTES:
1. THESE DETAILS APPLY WHEREVER A CONCENTRATED LOAD GREATER THAN 100 POUNDS OCCURS BETWEEN PANEL POINTS OF TRUSS OR JOIST CHORDS.
2. DIAGONAL BRACE IS NOT REQUIRED FOR "A" LESS THAN THREE INCHES.
3. PROVIDE DIAGONAL BRACE AT LOCATION OF CONCENTRATED LOADS SUCH AS PARTITIONS, HEAVY PIPES, MECHANICAL UNITS, HEAVY LIGHTS, SPORTS EQUIPMENT AND ANY OTHER CONCENTRATED LOADS.
4. P = CONCENTRATED LOAD.
5. FOR POINT LOADS 200 POUNDS MAX, LOADS GREATER THAN 200 POUNDS WILL BE NOTED ON PLANS.

7 TYPICAL JOIST CHORD REINFORCEMENT DETAIL
NO SCALE

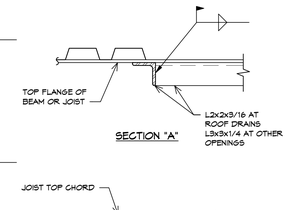


PLAN

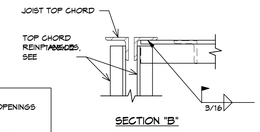
NOTE:
INSTALL FRAMES AT ALL ROOF OPENINGS INCLUDING ROOF DRAINS

ROOF OPENINGS AS SPECIFIED MISC FRAMING DIMENSIONS TO BE COORDINATED BY GC

8 TYPICAL ROOF OPENING DETAIL
NO SCALE



SECTION "A"



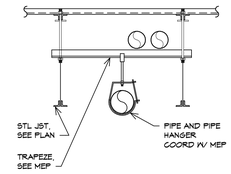
SECTION "B"

NOTES AT STEEL FRAMING:

1. THE PROVIDED HANGING PIPE LOAD SCHEDULE TABULATES THE WEIGHT OF SCHEDULE 40 STEEL AND PVC PIPES INCLUDING THE WEIGHT OF WATER PER LINEAR FOOT. THE CONTRACTOR SHALL ARRANGE PIPES AND HANGERS SUCH THAT INDIVIDUAL HANGER LOADS ARE LESS THAN 400#. HANGER LOADS OF 400# MUST BE SPACED AT 8 FEET OR GREATER. LESSER PIPE HANGING LOADS MAY BE SPACED CLOSER THAN 8 FEET ON CENTER, BUT TOTAL HANGING LOAD IN LOCALIZED AREA SHALL NOT EXCEED 8 POUNDS PER SQUARE FOOT.
2. WHEN THE PIPES RUN PERPENDICULAR TO THE JOISTS, SUPPORT THE PIPES WITH A HANGER TO EVERY BEAM OR JOISTS CROSSED IN ACCORDANCE WITH THE REQUIREMENTS OF NOTE 1. WHEN MULTIPLE PIPES ARE SUPPORTED USE TRAPEZE HANGERS WITH A MINIMUM OF TWO HANGERS.
3. WHEN THE PIPES RUN PARALLEL TO THE JOISTS HANG THE PIPES WITH TRAPEZE HANGERS SUPPORTED FROM A MINIMUM OF TWO JOISTS. TRAPEZE HANGERS SHALL BE SPACED SUCH THAT LOAD ON EACH HANGER MEETS THE REQUIREMENTS OF NOTE 1.
4. ATTACH ALL HANGERS TO THE CHORDS OF OPEN WEB STEEL JOISTS AT A PANEL POINT OR REINFORCE STEEL JOIST AS NOTED IN DETAIL SJ-32.

ELECTRICAL CONDUIT AND CABLE TRAYS:

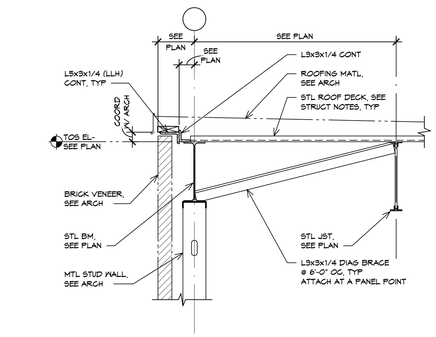
1. ELECTRICAL CONDUIT AND CABLE TRAYS SHALL BE PLACED PER NOTES ABOVE. VERTICAL LOAD AT HANGERS SHALL NOT EXCEED 400#.



HANGING PIPE LOAD SCHEDULE
(SCHEDULE 40 WITH WEIGHT OF WATER INCLUDED)

NOMINAL PIPE DIAMETER	POUNDS PER LINEAR FOOT					
	STEEL			PVC		
	1 PIPE	2 PIPES	3 PIPES	1 PIPE	2 PIPES	3 PIPES
1"	2.1	4.1	6.2	0.7	1.4	2.1
1 1/2"	3.6	7.2	10.8	1.4	2.8	4.2
2"	5.1	10.2	15.4	2.1	4.3	6.4
2 1/2"	7.9	15.8	23.6	3.2	6.3	9.5
3"	10.8	21.6	32.4	4.6	9.3	13.9
3 1/2"	13.4	26.8	40.2	6.0	12.0	18.0
4"	16.3	32.7	49.0	7.6	15.1	22.7
5"	23.3	46.6	69.8	11.4	22.9	34.3
6"	31.5	63.1	94.6	16.1	32.2	48.3
8"	50.3	100.5	150.8	27.1	54.2	81.3
10"	74.5	149.1	223.6	41.8	83.7	125.5
12"	98.6	197.2	295.8	58.6	117.3	175.9

9 MEP HANGER SUPPORT UNDER 400# HANGING LOAD
NO SCALE



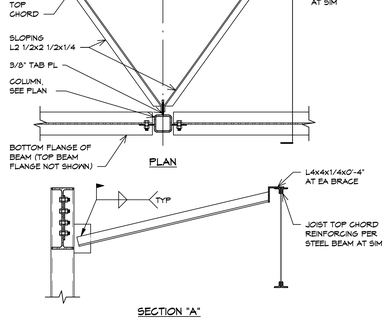
10 SECTION
NO SCALE

MASONRY LOOSE LINTEL SCHEDULE

OPENING	LINTEL SIZE	DETAIL
LESS THAN 2'-0"	L3 1/2x2 1/2x1/4 (LLH)	
2'-0" TO LESS THAN 6'-0"	L3 1/2x3 1/2x5/16	
6'-0" TO LESS THAN 8'-8"	L4x3 1/2x5/16 (LLV)	
6'-8" TO LESS THAN 8'-0"	L5x3 1/2x5/16 (LLV)	
8'-0" TO LESS THAN 10'-8"	L6x3 1/2x1/2 (LLV)	

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN, BUT NOT LESS THAN 8".
3. WHERE MINIMUM BEARING CANNOT BE ACHIEVED, PROVIDE ADEQUATE CONNECTION TO ADJACENT STURCTURAL MEMBER OR PROVIDE SEPARATE VERTICAL SUPPORT. SUBMIT SUCH DETAILS FOR ENGINEER'S APPROVAL.
4. ALL LINTELS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. FOR MASONRY OPENING LARGER THAN 10'-8", REFER TO ENGINEER.
6. BRICK HEIGHTS OVER OPENINGS GREATER THAN ONE HALF THE LINTEL SPAN SHALL BE SHORED UNTIL MORTAR HAS SET AND CURED.

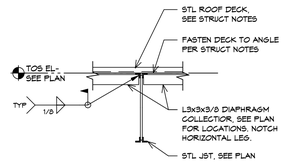
11 MASONRY LOOSE LINTEL SCHEDULE
NO SCALE



PLAN

SECTION "A"

12 TYPICAL COLUMN BRACE DETAIL - JOISTS PARALLEL TO BEAM
NO SCALE



13 TYPICAL DIAPHRAGM COLLECTOR
NO SCALE

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TEXAS REGISTRATION No: 87226
DATE: 02/28/25

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PROJECT NO: Project Number
DATE: February 28, 2025

TYPICAL STEEL DETAILS

S5.02

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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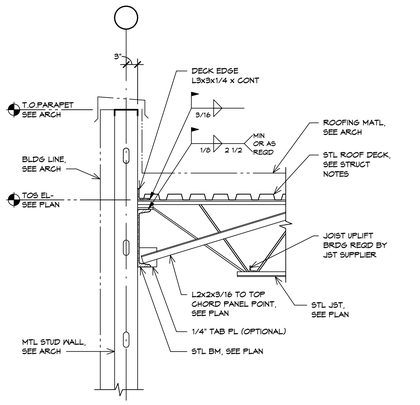
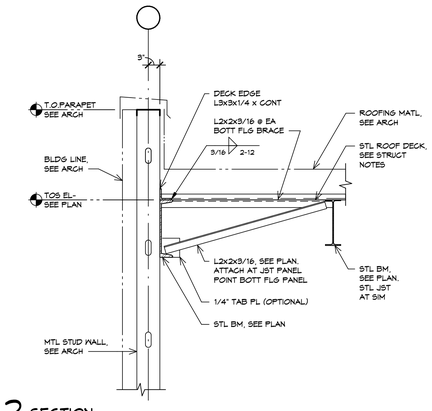


1 SECTION
SCALE: 3/4" = 1'-0"



2 SECTION
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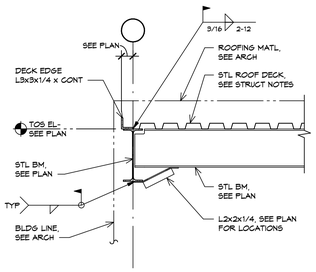

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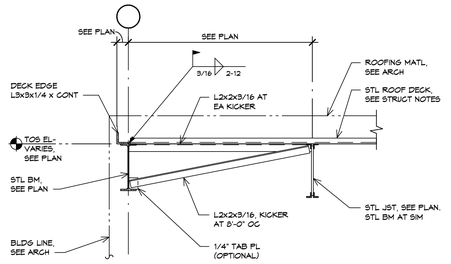

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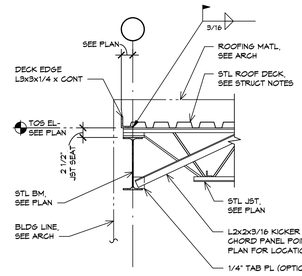


5 SECTION
SCALE: 3/4" = 1'-0"

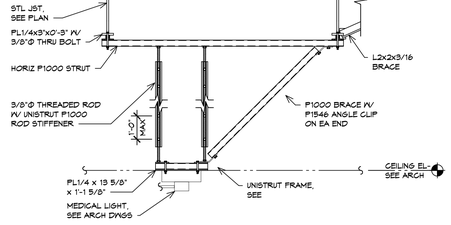
6 SECTION
SCALE: 3/4" = 1'-0"

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

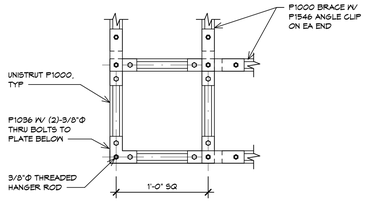
8 SECTION
SCALE: 3/4" = 1'-0"

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

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



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



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

DRAWN BY: Author
DESIGNED BY: Designer

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13300 OLD BLANCO RD.
SUITE 175
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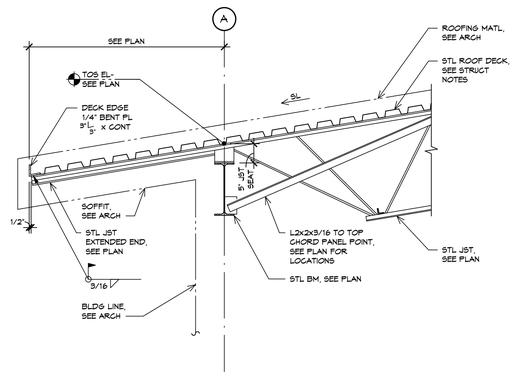
PROJECT NO: Project Number
DATE: February 28, 2025

SECTIONS AND DETAILS

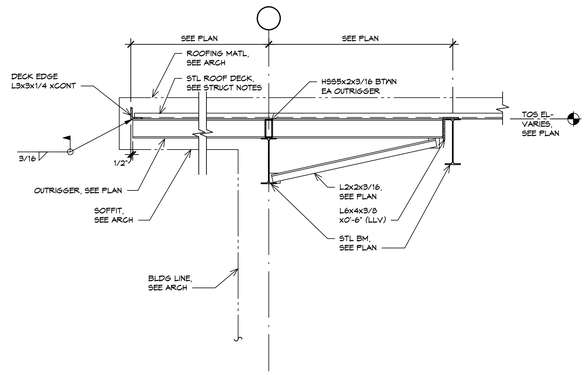
S5.03

DRG REFERENCE

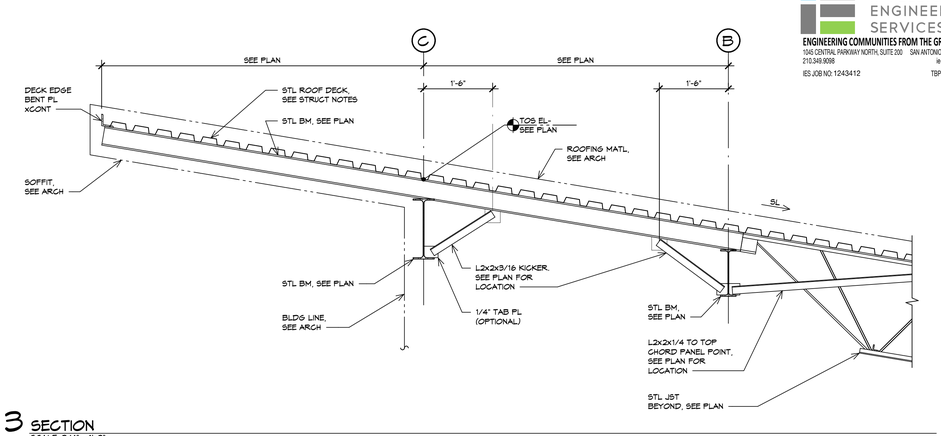
2/28/2025 2:23:59 PM



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



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



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

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
1045 CENTRAL PARKWAY NORTH, SUITE 200 SAN ANTONIO, TEXAS 78232
210.349.8056 ies-services.com
IES JOB NO: 1243412 TBPE FIRM F-432

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

INTERIM REVIEW DOCUMENTS
NOT INTENDED FOR BIDDING, PERMIT OR CONSTRUCTION PURPOSES
JOSEPH H. HUIZAR
TEXAS REGISTRATION No: 87226
DATE: 02/28/25

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER OFFICE

Enter address here

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PROJECT NO: Project Number
DATE: February 28, 2025

SECTIONS AND DETAILS

S5.04

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 11:06:46 AM

MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AS WELL AS PERFORM ALL THE LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AND AS SPECIFIED AND REQUIRED BY CODE.
2. THE DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL AGREEMENT ONLY.
3. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCTWORK AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
4. WHEN ALL TRADE WORK (HVAC, PLUMBING, AND FIRE PROTECTION) IS SUBCONTRACTED, IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS SUBCONTRACTORS AND THEIR ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE WORK OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
5. SIZE AND LOCATION OF EQUIPMENT SHOWN ON PLANS ARE APPROXIMATE. REFER TO MANUFACTURER'S LITERATURE FOR EXACT DIMENSIONS AND FIELD COORDINATE EXACT LOCATION.
6. ALL EQUIPMENT AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES/REGULATIONS.
7. VIBRATION ISOLATION FOR ALL EQUIPMENT SHALL BE PROVIDED TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE AS SPECIFIED.
8. PROVIDE VIBRATION ISOLATION FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50'-0" OF ISOLATED EQUIPMENT (EXCEPT AT BASE BELOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT THE EQUIPMENT ROOMS.
9. CONTRACTORS SHALL MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS AND SUSPENDED EQUIPMENT IN MECHANICAL ROOMS.
10. ALL TESTS SHALL BE COMPLETED BEFORE ANY EQUIPMENT, DUCT OR PIPING INSULATION IS APPLIED.
11. CONTRACTOR SHALL LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UPSTREAM OR DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER.
12. ANY TESTING, ADJUSTING AND BALANCING AGENCY CONSIDERED FOR THE PROJECT SHALL BE A MEMBER OF THE ASSOCIATED BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THEIR STANDARDS AND THE PROJECT SPECIFICATIONS.
13. WHERE TWO OR MORE ITEMS OF THE SAME TYPE ARE REQUIRED, THE PRODUCTS OF ONE MANUFACTURER SHALL BE USED.
14. ALL CONTROL WIRING AND CONDUITS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND THE DIVISION 26 SERIES OF THE CONTRACT SPECIFICATIONS.
15. CONTRACTOR SHALL COORDINATE OPENINGS THROUGH STRUCTURAL ELEMENTS WITH STRUCTURAL ENGINEER PRIOR TO EXECUTION. MODIFY LOCATION OF DUCTWORK AND PIPING AS REQUIRED TO ACCOMMODATE LOCATION OF OPENINGS.
16. UNLESS OTHERWISE INDICATED ON ARCHITECTURAL OR MECHANICAL DRAWINGS, CONTRACTOR SHALL PROVIDE A MINIMUM 12X12 INCHES ACCESS PANEL OR DOOR THROUGH WALLS AND CEILINGS FOR ANY EQUIPMENT, WHICH REQUIRES ACCESS SUCH AS DAMPERS, VALVES, SMOKE DETECTORS, ETC. SEE SPECIFICATINS FOR ADDITIONAL REQUIREMENTS.
17. ALL DUCTWORK, PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM THE SURROUNDING STRUCTURAL ELEMENTS AND COORDINATED THROUGH THE GENERAL CONTRACTOR. ANY ATTACHMENT TO STEEL BAR JOISTS, TRUSSES OR JOIST GIRDERS SHALL BE AT PANEL POINTS. CONTRACTOR SHALL PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. ANY WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
18. ALL LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES.
19. COOLING COIL CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET WITH A "P" TRAP AND PIPED TO THE NEAREST DRAIN. COORDINATE WITH PLUMBING.

MECHANICAL PIPING NOTES

1. ANY ELEVATION SHOWN IN THE SCOPE DOCUMENTS ARE TO THE BOTTOM OF PRESSURE PIPING AND THE INVERT OF ANY GRAVITY PIPING SYSTEM.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-0" COVERAGE OVER ALL UNDERGROUND PIPING UNLESS OTHERWISE NOTED.
3. PROVIDE AN AUTOMATIC AIR VENT AT THE HIGH POINT OF EVERY HYDRONIC PIPING SYSTEM.
4. ALL PIPING SHALL GRADE TO A LOW POINT AND AT SAID LOW POINT A DRAIN VALVE WITH HOSE CONNECTION SHALL BE INSTALLED. THE SAME CONDITION SHALL HOLD TRUE FOR ALL RISERS.
5. ALL OVERHEAD PIPING INSTALLATIONS SHALL BE HELD TIGHT TO STRUCTURE OR SLAB WITH THE REQUIRED SPACE PROVIDED FOR INSULATION INSTALLATION.
6. CONTRACTOR SHALL INSTALL ALL PIPING SYSTEMS SO THAT ANY VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES ARE ACCESSIBLE.
7. CONTRACTOR SHALL INSTALL ALL VALVES SO THAT SAID VALVE OR VALVES CAN REMAIN IN SERVICE WHEN ITS ASSOCIATED EQUIPMENT OR PIPING IS REMOVED. ALL VALVES SHALL BE ADJUSTED FOR EASY AND SMOOTH OPERATION.
8. ALL BALANCING, BUTTERFLY, AND SERVICE VALVES SHALL BE PROVIDED WITH MEMORY STOPS/ SETTING INDICATORS TO FACILITATE MAINTENANCE.
9. ALL VALVES MOUNTED 7'-0" OR MORE ABOVE THE FINISHED FLOOR SHALL BE PROVIDED WITH A CHAIN WHEEL OPERATOR. CHAIN SHALL EXTEND TO WITHIN 6'-8" ABOVE FLOOR LEVEL.
10. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE SUPPLIED AND INSTALLED FULL SIZE OF PIPE BEFORE ANY REDUCTION IN SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
11. FLANGED CONNECTIONS OR UNIONS SHALL BE SUPPLIED AND INSTALLED AT THE CONNECTION TO EACH PIECE OF EQUIPMENT, IN ANY BYPASS LINE, AND IN LONG PIPING RUNS 75 FEET OR MORE, TO ALLOW SYSTEM DISASSEMBLY FOR ANY FUTURE ALTERATIONS AND/OR REPAIRS.
12. ALL PIPING SHALL BE COORDINATED WITH ALL TRADES. ANY OFFSET REQUIRED AROUND OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.
13. CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS, CHILLERS, HEAT EXCHANGERS AND OTHER EQUIPMENT THAT REQUIRES VIBRATION ISOLATION EXCEPT WATER COILS.
14. LINE SIZE STRAINERS SHALL BE PROVIDED UPSTREAM OF EACH AUTOMATIC VALVE. ALSO PROVIDE SHUTOFF VALVES ON EACH SIDE OF STRAINER.

MECHANICAL SYMBOL LEGEND

DUCTWORK

SYMBOL	DESCRIPTION
	NEW DUCT
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	FLEXIBLE DUCT
	FLEXIBLE DUCT CONNECTION
	90° ELBOW W/ TURNING VANES (TYP. FOR ALL UNLESS OTHERWISE NOTED)
	45° MITERED ELBOW W/ TURNING VANES (TYP. FOR ALL UNLESS OTHERWISE NOTED)
	90° LONG RADIUS ELBOW
	45° LONG RADIUS ELBOW
	DUCT TEE
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
	RECTANGULAR TO ROUND TRANSITION
	RECTANGULAR BRANCH TAP (SMACNA 45)
	CONICAL BRANCH TAP (W/ VOLUME DAMPER)
	DUCT CAP
	SUPPLY / MAKEUP DUCT (UP / DOWN)
	RETURN DUCT (UP / DOWN)
	EXHAUST DUCT (UP / DOWN)
	SUPPLY / MAKEUP ROUND DUCT (UP / DOWN)
	RETURN ROUND DUCT (UP / DOWN)
	EXHAUST ROUND DUCT (UP / DOWN)
18/14 SA	RECTANGULAR DUCT SIZE (WIDTH x HEIGHT) AND SYSTEM
18Ø SA	ROUND DUCT SIZE (DIAMETER) AND SYSTEM
18x14 RA	FLAT OVAL DUCT SIZE (WIDTH x HEIGHT) AND SYSTEM
	IN-LINE 90 DEGREE DROP (RISE) IN DUCT (HIDDEN LINE INDICATES HIDDEN ELBOW)
UP	INCLINED RISE IN DUCT
DN	INCLINED DROP IN DUCT
	DUCT WITH INTERNAL LINER
	SIDEWALL REGISTER TAP
24/18	TRANSFER BOOT (WIDTH x HEIGHT)
	MANUAL DAMPER
M	MOTORIZED DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
H	DUCT MOUNTED HUMIDIFIER
	DUCT PENETRATION THROUGH WALL

MECHANICAL EQUIPMENT

SYMBOL	DESCRIPTION
	NEW EQUIPMENT (SIZE, SHAPE WILL VARY)
	EQUIPMENT TO REMAIN (SIZE, SHAPE WILL VARY)
	EQUIPMENT TO BE REMOVED (SIZE, SHAPE WILL VARY)
AHU-1	EQUIPMENT TAG
	SUPPLY CEILING DIFFUSER
	RETURN CEILING GRILLE / REGISTER
	EXHAUST CEILING GRILLE / REGISTER
	DIFFUSER FLOW ARROWS (IF NO ARROWS ARE SHOWN, DIFFUSER IS 4-WAY THROW)
	SIDEWALL SUPPLY GRILLE / REGISTER
	SIDEWALL RETURN GRILLE / REGISTER
	LOUVER W/ SCREEN (IN WALL)
	SLOT OR LINEAR DIFFUSER
	RETURN AIR SLOT DEVICE
A 400	AIR DEVICE TAG - DEVICE TYPE / AIRFLOW (CFM)
VFD	VARIABLE FREQUENCY DRIVE
CP	CONTROLLER OR CONTROL PANEL
	CEILING ACCESS DOOR/PANEL

CONTROL INSTRUMENTS

SYMBOL	DESCRIPTION
T	TEMPERATURE SENSOR/THERMOSTAT
H	HUMIDITY SENSOR/HUMIDISTAT
SD	SMOKE DETECTOR
A	AIR FLOW MONITORING STATION
DP	DIFFERENTIAL PRESSURE SENSOR
SD	STATIC PRESSURE SENSOR
CO_2	CO_2 SENSOR

MISCELLANEOUS

SYMBOL	DESCRIPTION
	POINT OF CONNECTION (NEW TO EXISTING)
	POINT OF DISCONNECTION
	TYPICAL LEADERS
	AIR FLOW INDICATOR

SHEET SYMBOLS

SYMBOL	DESCRIPTION
M10	KEYED NOTE
1	REVISION

VIEW TITLE

1 TITLE 1/8" = 1'-0" — VIEW NUMBER / VIEW TITLE / VIEW SCALE

SECTION REFERENCE

1 M1.01 — VIEW NUMBER / SHEET NUMBER

SHEET REFERENCE

1 M1.01 — VIEW NUMBER / SHEET NUMBER

ELEVATION REFERENCE

1 M6.01 — VIEW NUMBER / SHEET NUMBER

PIPING

SYMBOL	DESCRIPTION
6" NAME	NEW SINGLE LINE PIPING WITH SIZE AND SERVICE INDICATED (SEE PIPING SYSTEM ABBREVIATIONS)
6" NAME	NEW DOUBLE LINE PIPING WITH SIZE AND SERVICE INDICATED (SEE PIPING SYSTEM ABBREVIATIONS)
6" NAME	EXISTING PIPING TO REMAIN
6" NAME	EXISTING PIPING TO BE REMOVED
6" NAME	PIPING SERVICE HIDDEN OR UNDERGROUND
	SINGLE LINE PIPE ELBOW
	DOUBLE LINE PIPE ELBOW FLANGED AND THREADED/WELDED
	SINGLE LINE PIPE TEE
	DOUBLE LINE PIPE TEE FLANGED AND THREADED/WELDED
	SINGLE LINE PIPE CROSS
	DOUBLE LINE PIPE CROSS FLANGED AND THREADED/WELDED
	SINGLE LINE PIPE REDUCER
	DOUBLE LINE CONCENTRIC REDUCER FLANGED AND THREADED/WELDED
	DOUBLE LINE ECCENTRIC REDUCER FLANGED AND THREADED/WELDED
	SINGLE LINE PIPE CAP
	DOUBLE LINE PIPE CAP
	SINGLE LINE BLIND FLANGE
	DOUBLE LINE BLIND FLANGE
	SINGLE LINE PIPE UP OR COMING TOWARD YOU IN SECTION
	DOUBLE LINE PIPE UP OR COMING TOWARD YOU IN SECTION
	SINGLE LINE PIPE DOWN OR TURNING AWAY FROM YOU IN SECTION
	DOUBLE LINE PIPE DOWN OR TURNING AWAY FROM YOU IN SECTION
	SINGLE LINE TEE OUTLET UP OR COMING TOWARD YOU IN SECTION
	DOUBLE LINE TEE OUTLET UP OR COMING TOWARD YOU IN SECTION
	SINGLE LINE TEE OUTLET DOWN OR TURNING AWAY FROM YOU IN SECTION
	DOUBLE LINE TEE OUTLET DOWN OR TURNING AWAY FROM YOU IN SECTION
	SINGLE LINE FLEXIBLE CONNECTION
	DOUBLE LINE FLEXIBLE CONNECTION
	PIPE PENETRATION THROUGH WALL
1/8" / 1'-0"	PIPING PITCH (IN/FT)
	PIPING FLOW DIRECTION)
	SINGLE LINE SHUT-OFF VALVE
	DOUBLE LINE SHUT-OFF VALVE FLANGED AND THREADED/WELDED
	SINGLE LINE CHECK VALVE
	DOUBLE LINE CHECK VALVE FLANGED AND THREADED/WELDED
	SINGLE LINE STRAINER
	DOUBLE LINE STRAINER FLANGED AND THREADED/WELDED
	SINGLE LINE CONTROL VALVE
	DOUBLE LINE CONTROL VALVE FLANGED AND THREADED/WELDED
M	SINGLE LINE FLOWMETER
	DOUBLE LINE FLOWMETER FLANGED AND THREADED/WELDED

NOTE: NOT ALL SYMBOLS TABULATED ABOVE ARE NECESSARILY USED ON THE DRAWINGS.

MECHANICAL ABBREVIATIONS

ABBR.	DEFINITION	ABBR.	DEFINITION
AC	AIR CURTAIN	HX	HEAT EXCHANGER
ACC	AIR COOLED CONDENSER	HZ	HERTZ
ACCH	AIR COOLED CHILLER	I/O	INPUT/OUTPUT
ACCU	AIR COOLED CONDENSING UNIT	IAQ	INDOOR AIR QUALITY
ACU	AIR CONDITIONING UNIT	IBT	INVERTED BUCKET TRAP
AD	ACCESS DOOR	ICF	IN-LINE CENTRIFUGAL FAN
ADS	AIR DIRT SEPARATOR	ID	INSIDE DIAMETER
AFF	ABOVE FINISHED FLOOR	IEER	INTEGRATED ENERGY EFFICIENCY RATIO
AFMS	AIR FLOW MEASURING STATION	IN	INCHES
AFW	AIR FOIL WHEEL (FAN)	IN WC	INCH WATER COLUMN
AHU	AIR HANDLING UNIT	IN WG	INCH WATER GAUGE
AP	ACCESS PANEL	IPLV	INTEGRATED PART LOAD VALUE
AS	AIR SEPARATOR	IRH	INFRARED HEATER
B	BOILER	IS	INSECT SCREEN
BAS	BUILDING AUTOMATION SYSTEM	LAT	LEAVING AIR TEMPERATURE
BCU	BLOWER COIL UNIT	LBS/HR	POUNDS PER HOUR
BFP	BACKFLOW PREVENTER	LPR	LOW PRESSURE RETURN
BHP	BRAKE HORSEPOWER		(STEAM CONDENSATE)
BIW	BACKWARD INCLINED WHEEL (FAN)	LPRC	LOW PRESSURE STEAM RETURN
BOD	BOTTOM OF DUCT		(CLEAN)
BOP	BOTTOM OF PIPE	LPS	LOW PRESSURE STEAM
BOS	BOTTOM OF STEEL	LPSC	LOW PRESSURE STEAM (CLEAN)
BSC	BIOLOGICAL SAFETY CABINET	LVG	LEAVING
BTU	BRITISH THERMAL UNIT	LVR	LOUVER
BTUH	BRITISH THERMAL UNIT PER HOUR	LWT	LEAVING WATER TEMPERATURE
CAV	CONSTANT AIR VOLUME	M	FLOW METER
CC	COOLING COIL	MA	MIXED AIR
CCD	COOLING COIL CONDENSATE DRAIN	MAU	MAKE-UP AIR UNIT
CF	COOLER FILTER	MAV	MANUAL AIR VENT
CFH	CUBIC FEET PER HOUR	MAX	MAXIMUM
CFM	CUBIC FEET PER MINUTE	MBH	1,000 BTUH (BRITISH THERMAL UNITS
CH	CHILLER		PER HOUR)
CHP	CHILLED WATER PUMP	MCA	MINIMUM BRANCH CIRCUIT AMPACITY
CHR	CHILLED WATER RETURN	MERV	MINIMUM EFFICIENCY REPORTING VALUE
CHS	CHILLED WATER SUPPLY	MHP	MOTOR HORSEPOWER
CHW	CHILLED WATER	MIN	MINIMUM
CHWP	CHILLED WATER PUMP	MPR	MEDIUM PRESSURE RETURN
CM	CARBON MONOXIDE		(STEAM CONDENSATE)
CO2	CARBON DIOXIDE	MPS	MEDIUM PRESSURE STEAM
CP	CONDENSATE PUMP	MZ	MULTI-ZONE
CS	CONDENSATE STORAGE TANK	N.C.	NORMALLY OPEN
CT	COOLING TOWER	N.O.	NORMALLY CLOSED
CU	CONDENSING UNIT	N/A	NOT APPLICABLE
CUH	CABINET UNIT HEATER	NA	NOT APPLICABLE
CV	CONSTANT VOLUME	NC	NOISE CRITERIA
CV	CONTROL VALVE	NC	NORMALLY CLOSED
CW	COLD WATER (POTABLE)	NO	NORMALLY OPEN
CWCC	CHILLED WATER COOLING COIL	NPLV	NON-STANDARD PART LOAD VALUE
CWP	CONDENSER WATER PUMP	NPSH	NET POSITIVE SUCTION HEAD
CWR	CONDENSER WATER RETURN	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
	(TO COOLING TOWER)	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
CWS	CONDENSER WATER SUPPLY	NTS	NOT TO SCALE
	(FROM COOLING TOWER)	OA	OUTSIDE AIR
DB	DRY-BULB TEMPERATURE	OAI	OUTSIDE AIR INTAKE
DB	DECIBELS	OD	OUTSIDE DIAMETER
DEF	DRYER EXHAUST FAN	P	PUMP
DCW	DOMESTIC COLD WATER	PC	PUMPED CONDENSATE
DDC	DIRECT DIGITAL CONTROLS	PCF	POUNDS PER CUBIC FOOT (FEET)
DEG	DEGREE	PD	PRESSURE DROP
DIA	DIAMETER	PEF	PROPELLER (TYPE) EXHAUST FAN
DP	DEW POINT TEMPERATURE	PF	PRE-FILTER
DV	DRYER VENT	PHC	PREHEAT COIL
DX	DIRECT EXPANSION	PPM	PARTS PER MILLION
DXCC	DIRECT EXPANSION COOLING COIL	PRV	PRESSURE REGULATING VALVE
EA	EXHAUST AIR	PSI	POUNDS PER SQUARE INCH
EAH	EXHAUST AIR HOOD	PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH- GAGE
EDH	ELECTRIC DUCT HEATER	PTAC	PACKAGED TERMINAL AIR CONDITIONER
EER	ENERGY EFFICIENCY RATIO	RA	RETURN AIR
EF	EXHAUST FAN	RAF	RELIEF AIR FAN
EH	EXHAUST HOOD	REA	RELIEF AIR
EJ	EXPANSION JOINT	RH	RELATIVE HUMIDITY
EMD	END OF MAIN DRIP (STEAM)	RHC	REHEAT COIL
ENT	ENTERING	RHG	REFRIGERANT HOT GAS
ERC	ELECTRIC REHEAT COIL	RPM	REVOLUTIONS PER MINUTE
ESP	EXTERNAL STATIC PRESSURE	RTU	ROOFTOP UNIT
ET	EXPANSION TANK	RV	RELIEF VALVE
EUH	ELECTRIC UNIT HEATER	SA	SUPPLY AIR
EWT	ENTERING WATER TEMPERATURE	SAD	SOUND ATTENUATING DEVICE
F	FAHRENHEIT	SAT	SUPPLY AIR TEMPERATURE
F&T	FLOAT AND THERMOSTATIC	SCFM	STANDARD CUBIC FEET PER MINUTE
FCU	FAN COIL UNIT	SCR	SILICON CONTROLLED RECTIFIER
FCW	FORWARD CURVED WHEEL (FAN)	SD	SMOKE DETECTOR
FD	FLOOR DRAIN	SD	SMOKE DAMPER
FD	FIRE DAMPER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FF	FINAL FILTER	SEN	SENSIBLE HEAT
FPM	FEET PER MINUTE	SF	SUPPLY FAN
FPS	FEET PER SECOND	SHC	STEAM HEATING COIL
FPTU	FAN-POWERED TERMINAL UNIT	SP	STATIC PRESSURE
FS	FLOW SWITCH	SPRV	STEAM PRESSURE REDUCING VALVE
FSD	COMBINATION FIRE-SMOKE DAMPER	SQ FT	SQUARE FOOT (FEET)
FSTAT	FREEZESTAT	ST	STEAM TRAP
FT	FEET	SUH	STEAM UNIT HEATER
FT WC	FEET OF WATER COLUMN	SV	STEAM PRESSURE REDUCING VALVE
FV	FACE VELOCITY	T&PCV	TEMPERATURE AND PRESSURE
GA	GAUGE		CONTROL VALVE
GAL	GALLONS	TAB	TESTING, ADJUSTING, BALANCE
GH	GRAVITY HOOD	TD	TEMPERATURE DIFFERENCE
GPM	GALLONS PER MINUTE	TDH	TOTAL DYNAMIC HEAD
GPR	GAS PRESSURE REGULATOR	TOD	TOP OF DUCT
H	HUMIDIFIER	TOS	TOP OF STEEL
HC	HEATING COIL	TSP	TOTAL STATIC PRESSURE
HD	HOOD	TSTAT	THERMOSTAT
HOA	HAND/OFF/AUTOMATIC	TU	TERMINAL UNIT
HP	HEAT PUMP	TYP	TYPICAL
HP	HORSEPOWER	UC	UNDERCUT
HRW	HEAT RECOVERY WHEEL	UN	UNIT HEATER
HSTAT	HUMIDISTAT	VAV	VARIABLE AIR VOLUME
HVLS	HIGH-VOLUME LOW-SPEED FAN	VFD	VARIABLE FREQUENCY DRIVE
HVU	HEATING AND VENTILATING UNIT	VI	VIBRATION ISOLATOR
HW	HOT WATER	W	WATTS
HWC	HOT WATER COIL	WB	WET-BULB (TEMPERATURE)
HWP	HEATING HOT WATER PUMP	WCCH	WATER COOLED CHILLER
HWR	HEATING HOT WATER RETURN	WCCU	WATER COOLED CONDENSING UNIT
HWS	HEATING HOT WATER SUPPLY	WG	WATER GAGE
HWUH	HOT WATER UNIT HEATER		

PIPING SYSTEM ABBREVIATIONS

BBD	BOILER BLOW DOWN	HPWS	HEAT PUMP WATER SUPPLY
BFW	BOILER FEED WATER	HWR	HOT WATER RETURN (HEATING)
CHR	CHILLED WATER RETURN	HWS	HOT WATER SUPPLY (HEATING)
CHS	CHILLED WATER SUPPLY	LPC	LOW PRESSURE STEAM CONDENSATE
CLPS	CLEAN LOW PRESSURE STEAM	LPS	LOW PRESSURE STEAM
CMPS	CLEAN MEDIUM PRESSURE STEAM	MPC	MEDIUM PRESSURE STEAM
CTWR	COOLING TOWER WATER RETURN		CONDENSATE
CTWS	COOLING TOWER WATER SUPPLY	MPS	MEDIUM PRESSURE STEAM
CWR	CONDENSER WATER RETURN	NPW	NON-POTABLE WATER
CWS	CONDENSER WATER SUPPLY	PC	PUMPED CONDENSATE
D	DRAIN LINE	RD	REFRIGERANT DISCHARGE (HOT GAS)
GR	GLYCOL RETURN	RHG	REFRIGERANT HOT GAS
GS	GLYCOL SUPPLY	RL	REFRIGERANT LIQUID
H/C R	DUAL TEMPERATURE RETURN	RLR	REFRIGERANT LIQUID OVERFEED
H/C S	DUAL TEMPERATURE SUPPLY		RETURN
HPC	HIGH PRESSURE STEAM CONDENSATE	RS	REFRIGERANT SUCTION
HPS	HIGH PRESSURE STEAM	S(PSI)	STEAM WITH PRESSURE INDICATED
HPWR	HEAT PUMP WATER RETURN		

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M0.00	MECHANICAL LEGEND INDEX AND NOTES
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M0.02	MECHANICAL SCHEDULES
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M2.02	MECHANICAL DUCTWORK ROOF PLAN
M2.03	MECHANICAL AIRFLOW DIAGRAM - PRESSURE OFFSETS
M3.01	MECHANICAL PIPING PLAN
M3.02	MECHANICAL PIPING ROOF PLAN
M4.01	ENLARGED MECHANICAL DUCTWORK PLAN
M4.02	ENLARGED MECHANICAL DUCTWORK PLAN
M5.01	MECHANICAL DETAILS
M5.02	MECHANICAL DETAILS
M6.01	ROOFTOP UNIT'S INSTALLATION SCHEMATIC
M7.01	MECHANICAL CONTROLS LEGEND INDEX AND NOTES
M7.02	NETWORK ARCHITECTURE
M7.04	MECHANICAL CONTROLS
M7.05	MECHANICAL CONTROLS
M7.06	MECHANICAL CONTROLS
M7.07	MECHANICAL CONTROLS
M7.08	MECHANICAL CONTROLS
M8.01	MECHANICAL SECTIONS
M8.02	MECHANICAL SECTIONS
M8.03	MECHANICAL SECTIONS

HVAC / SHEET METAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING THEIR WORKING KNOWLEDGE OF THEIR SPECIFIC DISCIPLINES TO AUGMENT THE SCOPE DOCUMENT.
2. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
3. CERTAIN ITEMS SUCH AS RISERS AND DROPS IN DUCTWORK, ACCESS DOORS AND VOLUME DAMPERS ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
4. ALL DUCTWORK DIMENSIONS AS SHOWN ON THE DRAWINGS ARE INTERNAL. CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
5. PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
6. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
7. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ARCHITECT OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
8. LOCATE ALL MECHANICAL EQUIPMENT (VARIABLE VOLUME, CONSTANT VOLUME AND FAN POWERED BOXES, FAN COIL UNITS, UNIT VENTILATORS AND COILS) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING.
9. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, RELIEF, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FAN AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
10. UNLESS OTHERWISE INDICATED, ALL DUCTWORK SHALL BE INSTALLED OVERHEAD TIGHT TO THE UNDERSIDE OF THE STRUCTURE WITH SPACE FOR INSULATION IF REQUIRED.
11. RUNS OF LOW PRESSURE FLEXIBLE DUCT SHALL NOT EXCEED 6'-0" IN LENGTH. RUNS OF MEDIUM PRESSURE FLEXIBLE DUCT SHALL NOT EXCEED 3'-0" IN LENGTH.
12. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
13. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK, WHICH REQUIRE SERVICE AND/ OR INSPECTION.
14. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENT.
15. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS. GROUNDING STRAPS SHALL BE BOLTED OR SOLDERED TO BOTH THE EQUIPMENT AND THE DUCT.
16. SMOKE DETECTORS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
17. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN THE CONTRACT SPECIFICATIONS AND ON THE ARCHITECTURAL DRAWINGS.

IECC-2015

IECC - 2015
C408.3 LIGHTING SYSTEM FUNCTIONAL TESTING. CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH THIS SECTION.

C408.3.1 FUNCTIONAL TESTING.
PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE.

C408.3.1.1 OCCUPANT SENSOR CONTROLS.
WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
1. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
3. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
3.1. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
3.2. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
3.3. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
3.4. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
3.5. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

C408.3.1.2 TIME-SWITCH CONTROLS.
WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

1. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
2. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
3. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
4. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
5. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
6. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
6.1. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
6.2. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
7. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
7.1. NONEXEMPT LIGHTING TURNS OFF.
7.2. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.
8. ADDITIONAL TESTING AS SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL.

C408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS.
WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:
1. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SETPOINTS AND THRESHOLD LIGHT LEVELS.
2. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
3. THE LOCATIONS OF CALIBRATION ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

C408.3.2 DOCUMENTATION REQUIREMENTS.
THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF SECTION C405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

95% CONSTRUCTION DOCUMENTS PACKAGE

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL LEGEND INDEX AND NOTES

M0.00

DRG REFERENCE

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

2/28/2025 11:06:50 AM

DX ROOFTOP 100% OUTDOOR AIR UNIT SCHEDULE (1 OF 2)

MARK	SERVICE	TYPE	PRE-FILTER	FINAL-FILTER	SUPPLY FAN						COOLING COIL							
					CFM	EXT. SP (in. WG)	MOTOR (HP)	BHP / W/ 1FAILED	(FAN QUANTITY) ROWS X COLUMNS	DRIVE TYPE	COOLING CFM	MAX FACE VEL. (FPM)	EAT (°F DB/ °F WB)	LAT (°F DB/ °F WB)	TOTAL MBH	SENS (MBH)	ROWS/FINS	MAX AIR S.P. LOSS IN. W.G.
RTU-1	AUTOPSY AND TOXICOLOGY AREA	DX AIR COOLED	MERV 8	MERV 13	12,045	3.78	6.5	4.17 / 5.82	2 / 2	DIRECT	12,045	500	76.7 / 76.3	47.9 / 47.9	1,491	384	6/10	0.6
													99.3 / 73.5	43.9 / 43.3	992	679		

DX ROOFTOP 100% OUTDOOR AIR UNIT SCHEDULE (2 OF 2)

MARK	HOT GAS RE-HEAT COIL				CONDENSER				COMPRESSOR			STARTER		ELECTRICAL DATA					EER	REFRIGERANT	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
	CFM	EAT (°F DB/WB)	LAT (°F DB/WB)	ROWS/FPI	TYPE	NO. FANS	V/PH/HZ	MOTOR HP	TYPE	NO./RLA	V/PH/HZ	TYPE	LOCATION	DISCONNECT	FLA	MCA	MOCP (A)	SCCR						
RTU-1	12,045	47.9/47.9	73.7/58.6	2/10	PROPELLER	8	460/3/60	2.0	SCROLL	8 / 2 SETS (2@40.5,2@41.2)	460/3/60	1 VFD	IN UNIT COMPARTMENT	YES	244	254	350	10,000	10.6	R-454B	15,000	NORTEK (VENMAR)	ZQ799-0101	1,2,3,4,5,6,7,8,9

NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES DUCTWORK, AIR DEVICES AND DIRTY FILTERS ONLY AND DOES NOT INCLUDE COIL AND CASING LOSSES.
2. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT SWITCH. PROVIDE A GFI CONVENIENCE DUPLEX OUTLET CONNECTED TO THE LINE SIDE OF THE DISCONNECT.
3. PROVIDE UNIT WITH ROOF CURB TO SUIT ROOFING SYSTEM. REFER TO SPECIFICATIONS.
4. WEIGHT DOES NOT INCLUDE ROOF CURB. COORDINATE WEIGHT AND LOCATION WITH STRUCTURE.
5. AIRFOIL SUPPLY PLENUM FANS WITH GRAVITY NON-MOTORIZED BACKDRAFT DAMPER.
6. INFINITE COMPRESSOR CAPACITY STEPS.
7. REFRIGERANT SHALL BE R454B.
8. COOLING COIL MUST SATISFY BOTH CONDITIONS INDICATED ON THE SCHEDULE.
9. PROVIDE WITH HAIL GUARDS FOR THE CONDENSER SECTION.

DX ROOFTOP UNIT SCHEDULE

MARK	LOCATION	SERVICE	TYPE	FAN DATA						FILTER DATA		COOLING COIL				HEATING COIL				ELECTRICAL DATA	HOT GAS RE-HEAT COIL				ELECTRICAL DATA		EER	REFRIGERANT	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
				TOTAL CFM	OUTSIDE AIR CFM	ESP (in. W.G.)	MOTOR (HP)	BHP	(FAN QUANTITY) ROWS X COLUMNS	PRE-FILTER	FINAL FILTER	TOTAL (MBH)	SENSIBLE (MBH)	EAT (°F DB/ °F WB)	LAT (°F DB/ °F WB)	HEATING MBH	EAT (°F DB/ °F WB)	LAT (°F DB/ °F WB)	FUEL	VOLT/PH/HZ	CFM	EAT (°F DB/ °F WB)	LAT (°F DB/ °F WB)	HEATING MBH	MCA	MOCP (A)						
RTU-2	ROOF	OFFICE	PACKAGED ROOFTOP	4180	845	2	7.5	6.48	1	MERV 8	MERV 13	165	122	88.78 / 65.4	57.2 / 54.4	-	-	-	-	460/3/60	-	-	-	-	36	50	12.05	R-454B	2,200	AAON	RA-013-3-3-0-GAAC-V0-21-000-A	1,2,3,4,5,6,7,8,9
RTU-3	ROOF	SALLYPORT	PACKAGED ROOFTOP	1,145	1,145	1	1.0	0.89	1	MERV 8	MERV 13	38	38	99.3 / 73.5	58.8 / 57.3	27	29.9 / 52.2	92.9 / 58.9	GAS	460/3/60	1,145	58.8 / 57.3	75.0 / 63.2	21	19.3	25	10.5	R-454B	1,100	AAON	RQ-005-3-01-GABD-00-A1-000-A	1,2,3,4,5,6,7,8,9

NOTES:
1. GAS HEAT EXCHANGER SHALL BE STAINLESS STEEL.
2. FAN MOTORS SHALL BE PREMIUM EFFICIENCY AND INVERTER DUTY.
3. EXTERNAL STATIC PRESSURE INCLUDES DUCTWORK, AIR DEVICES AND DIRTY FILTERS ONLY AND DOES NOT INCLUDE COIL AND CASING LOSSES.
4. PROVIDE SMOKE DETECTORS AT RTU RETURN FOR ALL UNITS WITH AIRFLOWS GREATER THAN 2,000 CFM PER IMC.
5. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT SWITCH. PROVIDE A GFI CONVEANCE DUPLEX OUTLET CONNECTED TO THE LINE SIDE OF THE DISCONNECT.
6. PROVIDE UNIT WITH NEW ROOF CURB TO SUIT ROOFING SYSTEM.
7. PROVIDE UNIT WITH DRY BULB AIR ECONOMIZER AND RELIEF AIR FAN FOR UNITS WITH COOLING CAPACITY > 54,000 BTUH.
8. PROVIDE INSULATED RETURN AND SUPPLY AIR PLUNUM TO SUIT ROOFING SYSTEM. SEE SHEET M6.01 - ROOFTOP INSTALLATION SCHEMATIC DETAILS 2 & 3.
9. PROVIDE WITH HAIL GUARD FOR THE CONDENSER SECTION.

EXHAUST FAN SCHEDULE

MARK	LOCATION	SERVICE	TYPE	AIR FLOW (CFM)	ESP (IN. W.G.)	MAX. FAN RPM	DRIVE TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	VOLT/PH/HZ	MOTOR SIZE (HP)	BHP	SPEED CONTROL	INTERLOCK	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
EF-1	ROOF	AUTOPSY	UTILITY SET	12,380	2.5	1800	DIRECT	AIRFOIL	II	4,CW, BAU	460/3/60	20	18.9	VARIABLE	YES (EF-2)	1500	GREENHECK	USF-27	1,2,3,4,6,7
EF-2	ROOF	AUTOPSY	UTILITY SET	12,380	2.5	1800	DIRECT	AIRFOIL	II	4, CCW, BAU	460/3/60	20	18.9	VARIABLE	YES (EF-1)	1500	GREENHECK	USF-27	1,2,3,4,6,7
EF-3	ROOF	OFFICE TOILETS	DOWNBLAST	210	0.5	1800	DIRECT	BACKWARD INCLINED	-	-	115/1/60	1/4	0.07	CONSTANT	NO	100	GREENHECK	G-097-VG	1,3,5,8
EF-4	ROOF	SALLYPORT	DOWNBLAST	750	0.5	1800	DIRECT	BACKWARD INCLINED	-	-	115/1/60	1/4	0.13	CONSTANT	NO	100	GREENHECK	G-099-VG	1,3,5,8

NOTES:
1. PROVIDE DISCONNECT SWITCHES.
2. MOTOR SHALL BE OUTSIDE THE AIRSTREAM FOR EXHAUST FANS 1 & 2.
3. PROVIDE WITH MOTORIZED DAMPERS FOR ALL FANS.
4. PROVIDE VIBRATION ISOLATORS. SEE SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE WITH ROOF CURB TO SUIT ROOFING SYSTEM.
6. PROVIDE COATING ON PARTS AND HOUSING EXPOSED TO AIR STREAM PER SPECIFICATIONS.
7. EF-3 & 4 SHALL BE PROVIDED WITH SPEED CONTROLLER FOR BALANCING. UPON BALANCING PERMENTLY MARK SPEED CONTROLLER.

(SERIES) FAN POWERED BOX SCHEDULE

MARK	SYSTEM AIR HANDLING	LOCATION	AREA SERVED	UNIT SIZE	INLET (IN.)	AIR FLOW		CONTROL TYPE	FAN DATA			ELECTRIC HEATING				MANUFACTURER	MODEL	NOTES
						MAX. CFM	MIN. CFM		FAN HP	EXT. S.P. (W.G.)	VOLT/PH/HZ	HEATING CFM	RETURN AIR TEMPERATURE (F)	LEAVING AIR TEMPERATURE (F)	VOLT/PH/HZ			
FPTU-01	RTU-2	PLENUM	SHARED OFFICE 112, STORAGE 111	20	8	630	200	DDC	1/3	1.1	277/1/60	630	69	90	277/1/60	PRICE	FDC	1,2,3
FPTU-02	RTU-2	PLENUM	LARGE CONFERENCE/FAMILY MEETING 103	20	8	720	220	DDC	1/3	1.1	277/1/60	720	69	90	277/1/60	PRICE	FDC	1,2,3
FPTU-03	RTU-2	PLENUM	BREAK RM 105	10	5	420	130	DDC	1/3	1.1	277/1/60	420	69	90	277/1/60	PRICE	FDC	1,2,3
FPTU-04	RTU-2	PLENUM	OPERATIONS MANAGER 117, DEPUTY MEDICAL EXAMINER 11	10	5	400	120	DDC	1/3	1.1	277/1/60	400	69	90	277/1/60	PRICE	FDC	1,2,3
FPTU-05	RTU-2	PLENUM	LOCUM TENENS 114, CHIEF INVESTIGATOR 113, PUBLIC TOILET 102, LOBBY 101	10	6	520	160	DDC	1/3	1.1	277/1/60	520	69	90	277/1/60	PRICE	FDC	1,2,3
FPTU-06	RTU-2	PLENUM	RECEPTION 104, HSKP 108, ELECTRICAL 109, CASEFILES 110, STAFF TOILET 107, STAFF TOILET 106	10	5	480	150	DDC	1/3	1.1	277/1/60	480	69	90	277/1/60	PRICE	FDC	1,2,3
FPTU-07	RTU-2	PLENUM	CORRIDOR 124	20	10	750	225	DDC	1/3	1.1	277/1/60	750	69	90	277/1/60	PRICE	FDC	1,2,3
FPTU-08	RTU-2	PLENUM	CHIEF MEDICAL EXAMINER 115	10	4	260	80	DDC	1/3	1.1	277/1/60	260	69	90	277/1/60	PRICE	FDC	1,2,3

NOTES:
1. ALL UNITS SHALL BE PRESSURE INDEPENDENT.
2. PROVIDE ECM MOTOR, DISCONNECT SWITCH AND SCR (MULTI STAGE) ELECTRIC HEAT
3. REFER TO PLANS FOR ACCESS CONNECTION SIDE.

DX DUCTLESS SPLIT FAN COIL

MARK	SERVICE	FAN DATA			COOLING COIL				REFRIGERANT	ELECTRICAL DATA		EER (SEER)	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
		TOTAL CFM	OUTSIDE AIR CFM	VOLT/PH/HZ	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	EAT (°F DB/ °F WB)	LAT (°F DB/ °F WB)		MCA	MOCP (A)					
MS-01	IT ROOM	750	6	208/1/60	11.7	11.4	68.4 / 54.1	53.8 / 47.6	R32	14.6	20	12 (20)	19	DAIKIN	FTXV12AVJU9	1
MS-02	M&E ROOM	1000	21	208/1/60	23.9	23.2	80.4 / 59.8	58.4 / 50.8	R32	21.6	25	12 (21)	27	DAIKIN	FTXV24AVJU9	1

NOTES:
1. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT SWITCH.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	LOCATION	SERVICE	TOTAL (MBH)	EER (SEER)	VOLT/PH/60	MCA	MOCP (A)	REFRIGERANT	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
ACCU-1	ROOF	M&E ROOM	24.6	12 (21)	208/1/60	21.6	25	R32	127	DAIKIN	RXT24AVJU9	1
ACCU-2	ROOF	IT ROOM	14.6	12 (20)	208/1/60	14.6	20	R32	72	DAIKIN	RXT12AVJU9	1

NOTES:
1. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT SWITCH.

AIR DEVICE SCHEDULE KEY

TYPE	TYPE DESCRIPTION	MANUFACTURER	MODEL	MODULE SIZE	MATERIAL	FINISH	DESCRIPTION	COMMENTS
A	SUPPLY DIFFUSER	TITUS	OMNI-AA	24X24	ALUMINUM	BAKED ENAMEL	SQUARE PLAQUE LAY-IN HIGH CAPACITY CEILING DIFFUSER. 24X24 FACE UNLESS OTHERWISE SPECIFIED. NECK DIAMETER SPECIFIED IN SCHEDULE NOTES. PROVIDE AIR PATTERN CONTROLLER.	1,2,3
A1	SUPPLY DIFFUSER	TITUS	STR-PQ-FR-R6	12X12	PLASTIC	WHITE	SQUARE PLAQUE LAY-IN HIGH CAPACITY CEILING DIFFUSER. 12X12 FACE UNLESS OTHERWISE SPECIFIED. NECK DIAMETER SPECIFIED IN SCHEDULE NOTES. PROVIDE AIR PATTERN CONTROLLER.	2,3
B	CEILING RETURN / EXHAUST GRILLE	STRATUS	PAR-AA	24x24	ALUMINUM	BAKED ENAMEL	24X24 PERFORATED FACE GRILLE. PLENUM RETURN GRILLE WITH 22X22 NECK UNLESS NOTED OTHERWISE IN PLANS. DUCTED EXHAUST GRILLE WITH NECK DIAMETER SPECIFIED IN SCHEDULE NOTES AND RUN-OUT DUCT SIZE AS SPECIFIED ON PLANS.	2,3
B1	CEILING RETURN / EXHAUST GRILLE	STRATUS	GRILLE WITH COLLAR	12X12	PLASTIC	WHITE	1/2"x3/8" EGGCRATE CORE GRILLE. PLENUM RETURN GRILLE WITH 12x12 NECK UNLESS NOTED OTHERWISE IN PLANS. DUCTED EXHAUST GRILLE WITH NECK DIAMETER SPECIFIED IN SCHEDULE NOTES AND RUN-OUT DUCT SIZE AS SPECIFIED ON PLANS.	2,3
C	SIDEWALL SUPPLY DIFFUSER	TITUS	271FL	PER PLANS	ALUMINUM	BAKED ENAMEL	ALUMINUM AEROBLADE SUPPLY GRILLE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION.	2,3
D	SIDEWALL RETURN / EXHAUST GRILLE	TITUS	56FL	PER PLANS	ALUMINUM	BAKED ENAMEL	AEROBLADE SIDE WALL RETURN / EXHAUST GRILLE, ALUMINUM CONTRUCTION, 0 DEGREE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION.	2,3
E	SUPPLY DIFFUSER	STRATUS	STR-PQ-FR-R6	24X24	PLASTIC	WHITE	SQUARE PANEL FACE LAY-IN HIGH CAPACITY CEILING FIFFUSER. 24X24 FACE UNLESS NOTED OTHERWISE SPECIFIED. NECK DIAMETER SPECIFIED IN SCHEDULE NOTES. PROVIDE AIR PATTERN CONTROLLER.	2,3
F	CEILING RETURN / EXHAUST GRILLE	STRATUS	FILTER GRILLE WITH COLLAR	24X24	PLASTIC	WHITE	1/2"x3/8" EGGCRATE CORE GRILLE. PLENUM RETURN GRILLE WITH 22x22 NECK UNLESS NOTED OTHERWISE IN PLANS. DUCTED EXHAUST GRILLE WITH NECK DIAMETER SPECIFIED IN SCHEDULE NOTES AND RUN-OUT DUCT SIZE AS SPECIFIED ON PLANS.	2,3
G	ROUND SUPPLY DIFFUSER	TITUS	TMR-AA	10"	ALUMINUM	BAKED ENAMEL	10" DIA INLET ROUND DIFFUSER WITH 3 CONES.	2,3
H	SUPPLY LAMINAR DIFFUSER	TITUS	TRITEC	24x48	STAINLESS STEELS	BAKED ENAMEL	10" DIA. INLET LAMINAR FLOW DIFFUSER. PROVIDE WITH PLENUM BOX WITH SIZE TO SUIT DIFFUSER.	2,3
J	SUPPLY LAMINAR DIFFUSER	TITUS	RAIDATEC-SS	24X24	STAINLESS STEELS	BAKED ENAMEL	10" DIA. INLET LAMINAR FLOW DIFFUSER. PROVIDE WITH PLENUM BOX WITH SIZE TO SUIT DIFFUSER.	2,3

KEY:

TYPE "A" "A1" UNLESS OTHERWISE INDICATED.

TYPE "B" "B1" UNLESS OTHERWISE INDICATED.

"TYPE A" "A1" DUCT SIZE SCHEDULE

6"	0-180 CFM
8"	180-310 CFM
10"	310-430 CFM
12"	430-560 CFM
14"	560-740 CFM

"TYPE E" DUCT SIZE SCHEDULE

6"	0-200 CFM
8"	200-310 CFM
10"	310-430 CFM
12"	430-520 CFM
14"	520-630 CFM

"TYPE F" DUCT SIZE SCHEDULE

6"	0-100 CFM
8"	100-220 CFM
10"	220-330 CFM
12"	330-500 CFM
14"	500-600 CFM

AIR DEVICE SCHEDULE NOTES:
1. PROVIDE SQUARE TO ROUND TRANSITION FOR TYPE A CEILING DIFFUSERS FOR DUCT SIZE AND CFM INDICATED (SEE INLET DUCT SIZE CHART, THIS SCHEDULE).
2. PROVIDE FINISH AS SPECIFIED ON ARCHITECTURAL DRAWINGS.
3. PROVIDE VOLUME DAMPER AT BRANCH DUCT TAP ABOVE ACCESSIBLE CEILINGS.

DIFFUSER MOUNTING:
A. STEPPED-DOWN (S-D): DIFFUSER HOUSING BELOW CEILING WITH PERIMETER FLANGE AND GASKET TO SEAL AGAINST CEILING CONSTRUCTION.
B. FLUSH (FL): DIFFUSER HOUSING ABOVE CEILING SURGACE WITH FLUSH PERIMETER FLANGE AND GASKET TO SEAL AGAINST CEILING.
C. LAY-IN (L-1): DIFFUSER HOUSING SIZED TO FIT BETWEEN CEILING EXPOSED SUSPENSION TEE BARS AND REST ON TOP SURFACE OF TEE BAR.
D. SNAP-IN (S-I): DIFFUSER HOUSING SIZED TO FIT BETWEEN CEILING CONCEALED SUSPENSION RUNNERS, AND SNAP INTO RUNNERS.

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL SCHEDULES

M0.01

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AIR CURTAIN SCHEDULE

UNIT	LOCATION	NOZZLE WIDTH IN.	MAX VEL. AT NOZZLE (FPM)	AVG. OUTLET VELOCITY FPM	AIR VOLUME CFM	ELECTRICAL DATA				MANUFACTURER	MODEL	WEIGHT (LBS)	NOTES
						NUMBER OF CIRCUITS	BREAKER RATING PER CIRCUIT	AMPS PER CIRCUIT	V/PH/HZ				
AC-1	RECEIVING / PROCCESSING	72	5,166	1,730	3,025	1	15	8.6	208/1/60	BERNER	WD12-C-2072A	178	1

NOTES:
1. RECEIVING / PROCESSING DOORS - (OPENING SIZE IS 72" W X 84" H) .

LABORATORY SUPPLY AIR VALVE SCHEDULE

Mark	ROOM SERVED	CFM	VALVE SIZE	SERVICE	HEATING DATA			V/PH/HZ	MANUFACTURER	MODEL	VALVE OPERATOR	NOTES
					LAT (°F DB)	MAX FACE VEL. (FPM)	KW					
LSV-01	AUTOPSY 403	2350	14	SA	85	700	18	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-02	SPECIMEN STORAGE	340	6	SA	85	700	30	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-03	DECOMP/ISOLATION/ANTHRO 396	1480	12	SA	85	700	16	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-04	X-RAY 405	1130	10	SA	85	700	30	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-05	LOCKER/SHOWER/LAUNDRY	980	10	SA	85	700	11	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-06	AUTOPSY TECH OFFICE	440	8	SA	85	700	15	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-07	PROPERTY/EVIDENCE/DNA CARDS 397	400	8	SA	85	700	5	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-08	AUTOPSY TRANSITION 391	1900	12	SA	85	700	20	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-09	TOXICOLOGY 144	1770	12	SA	85	700	20	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-10	RECEIVING PROCESSING 389	975	10	SA	85	700	15	480/3/60	SIEMENS	LGS	0575R	1,2
LSV-11	MAIN COOLER 131	100	4	SA	-	-	-	-	SIEMENS	LGS	0575R	1,2
LSV-12	CHIEF MORGUE TECH	155	4	SA	85	700	15	480/3/60	SIEMENS	LGS	0575R	1,2

NOTES:
1. CONTROL ENCLOSURE SHALL BE LOCATED OUT SIDE OF THE AIR STREAM WITH TWO PIECE GALVINIZED STEEL.
2. INSTALLATION REQUIREMENTS IN RIGID DUCT OF THE SAME DIAMETER 1X DUCT DIAMETERS UPSTREAM FROM THE SENSOR, OR TAPER ANGLE LEES THAN 30 DEGREES.

LABORATORY EXHAUST AIR VALVE SCHEDULE

MARK	ASSOCIATED FAN	ROOM SERVED	VALVE SIZE	MAX CFM	MIN CFM	SERVICE	MIN. OPERATING PRESSURE DROP (IN. WG)	MANUFACTURER	MODEL	VALVE OPERATOR	NOTES
LEV-01	EF-1 & 2	AUTOPSY 403	14	2360	2360	EA	0.3	SIEMENS	LGE	G815R	1
LEV-02	EF-1 & 2	SPECIMEN STORAGE	6	440	440	EA	0.3	SIEMENS	LGE	G815R	1
LEV-03	EF-1 & 2	DECOMP/ISOLATION/ANTHRO 396	11	1650	1650	EA	0.3	SIEMENS	LGE	G815R	1
LEV-04	EF-1 & 2	X-RAY 405	10	1300	1300	EA	0.3	SIEMENS	LGE	G815R	1
LEV-05				270	270				LGS		
LEV-06	EF-1 & 2	PROPERTY/EVIDENCE/DNA CARDS 397P	7	505	505	EA	0.3	SIEMENS	LGE	G815R	1
LEV-07	EF-1 & 2	LOCKER/SHOWER/LAUNDRY	7	580	580	EA	0.3	SIEMENS	LGE	G815R	1
LEV-08	EF-1 & 2	AUTOPSY TECH OFFICE	7	320	320	EA	0.3	SIEMENS	LGE	G815R	1
LEV-09	EF-1 & 2	AUTOPSY TRANSITION 391	10	1440	1440	EA	0.3	SIEMENS	LGE	G815R	1
LEV-10	EF-1 & 2	RECEIVING PROCESSING 389	8	670	670	EA	0.3	SIEMENS	LGE	G815R	1
LEV-10									LGE		
LEV-11	EF-1 & 2	TOXICOLOGY FUME HOOD 144	8	825	575	EA	0.3	SIEMENS	LGE	G815R	1
LEV-12	EF-1 & 2	TOXICOLOGY 144	10	1610	1610	EA	0.3	SIEMENS	LGE	G815R	1
LEV-13	EF-1 & 2	TOXICOLOGY 144 SNORKEL'S	7	400	400	EA	0.3	SIEMENS	LGE	G815R	1
LEV-14	EF-1 & 2	CHIEF MORGUE TECH	7	400	155	EA	0.3	SIEMENS	LGE	G815R	1

NOTES:
1. FLOW MEASUREMENT +/- 3% OF ACTUAL FLOW @ LISTED RANGES (SENSOR ONLY) PER AMCA 611.

GAS DETECTION AND ALARM

MARK	MANUFACTURER	MODEL	DESCRIPTION
CMD-1	MACURCO	CM-6	GRAY HOUSING-CARBON MONOXIDE CO FIXED GAS DETECTOR & CONTROLLER
CMD-2	MACURCO	BRS-485	MULTI-PROTOCOL RS-485 ADAPTER FOR USE W/ MACURCO 6-SERIES DETECTORS WITH BMS (MODBUS, BACNET, METASYS, SIEMENS FLN)
CMD-3	MACURCO	HS-B (horn/strobe Blue)	MACURCO HORN STROBE COMBO (BLUE) - W/ORKS WITH MACURCO CONTROL PANELS AND 6-SERIES DETECTORS
CMD-4	MACURCO	PS-24-H	PS-24-H-AC/DC ENCLOSED CONVERTER-1 OUTPUT 24V 85- 264 VAC INPUT, 1.3 AMP

CARBON FILTER SCHEDULE

NAME	SERVICE	CFM	FILTER HOUSING			PRE-FILTER		CARBON FINAL FILTER					COMMENTS
			DIMENSIONS (W x H)	MANUFACTURER	MODEL	RATING	FILTER SIZE WXHXD	FILTER SIZE WXHXD	INITIAL RESISTANCE (in. W.G.)	WEIGHT (LBS)	MANUFACTURER	MODEL	
CF-1	MAIN BODY COOLER	300	46.75" x 27.25"	CAMFIL	GLIDEPACK MULTITRACK	MERV 13	12"X24"X2"	12"X24"X12"	0.05	13	RENSA FILTRATION	ADSORBAL V-BANK HONEYCOMB	1,2,3

NOTES:
1. PROVIDE WITH FACTORY PROVIDED FLANGES.
2. DOUBLE-WALLED INSULATION ON ENTIRE HOUSING.
3. FILTER HOUSING IS 16 GA. GALVANIZED CONSTRUCTION, FULLY FACTORY INSULATED 1" THICK, SIDE ACCESS ON BOTH ENDS.

ELECTRIC UNIT HEATER SCHEDULE

MARK	SERVICE	AIR VOLUME CFM	MOTOR (HP)	VOLT/PH/HZ	INPUT (KW)	OUTPUT (MBH)	MANUFACTURER	MODEL	NOTES
EUH-1	WATER RM	380	1/40	208/1/60	3	10,200	MODINE	HER 30	1

NOTES:
1. FACTORY WIRED MOTOR CONNECTIONS WITH COPPER CONDUCTOR WIRES ENCLOSED IN STEEL CONDUIT.

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

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PROJECT NO: 24-0035-00
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MECHANICAL SCHEDULES

M0.02

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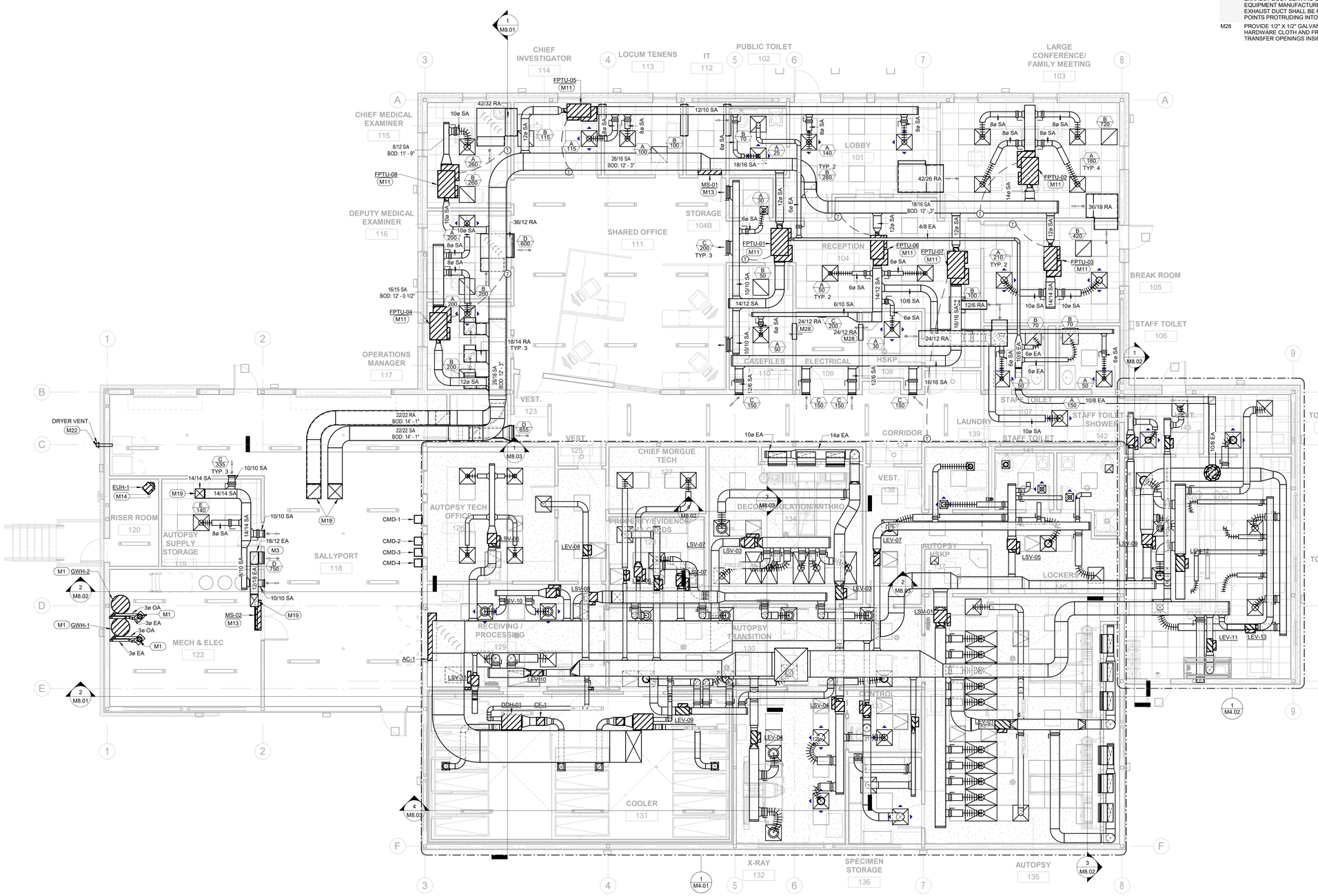
MECHANICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

M1	PROVIDE VERTICAL CONCENTRIC VENT KIT FROM THE GAS FIRED WATER HEATER MANUFACTURER. EXTEND 3" DIAMETER COMBUSTION AIR INTAKE AND 3" DIAMETER FLUE GAS VENT UP TO THE VERTICAL CONCENTRIC VENT THROUGH ROOFING SYSTEM. INSTALL PER PUBLISHED MANUFACTURER'S RECOMMENDATIONS AND TO SUIT ROOFING SYSTEM. SEE SHEET M5.02 - MECHANICAL DETAILS DETAIL 3.
M3	PROVIDE ROOF CURB TO SUIT ROOFING SYSTEM. PROVIDE MOTORIZED DAMPER AT ROOF PENETRATION AND EXTEND EXHAUST DUCT DOWN IN FURRING TO FINISHED FLOOR AND PENETRATE SALLY PORT WALL 12" ABOVE FINISHED FLOOR.
M11	PROVIDE SUPPORT STEEL AND SUSPEND FAN POWERED TERMINAL UNIT FROM STRUCTURE ABOVE WITH VIBRATION ISOLATION PER SPECIFICATIONS. MAINTAIN SERVICE CLEARANCE AND ELECTRICAL DISCONNECT CLEARANCE.
M13	PROVIDE SUPPORT STEEL AND HANG MINI-SPLIT INDOOR UNIT ON WALL ABOVE THE DOOR FRAME WITH HEIGHT TO SUIT CONDENSATE DRAIN.
M14	PROVIDE SUPPORT STEEL AND SUSPEND ELECTRIC UNIT HEATER WITH BOTTOM OF HEATER AT 9'-0".
M19	SEE SHEET M2.02 FOR CONTINUATION.
M22	PROVIDE A WALL DRYER CAP WITH BACKDRAFT DAMPER AT EXTERIOR WALL PENETRATION AND EXTEND 4" TO RECESSED DRYER VENT BOX AND STUB OUT 4" FLEX DRYER VENT DUCT TO DRYER. THE INSTALLATION OF THE DRYER EXHAUST DUCT SERVING CLOTHES DRYER SHALL COMPLY WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE DRYER EXHAUST DUCT SHALL BE FASTEN IN A MANNER THAT HAS NO OBJECT OR POINTS PROTRUDING INTO THE AIR STREAM.
M28	PROVIDE 1/2" X 1/2" GALVANIZED HARDWARE CLOTH AND FRAMES. SECURE HARDWARE CLOTH AND FRAMES WITH STAINLESS STEEL FASTENERS TO THE TRANSFER OPENINGS INSIDE THE ROOM WITH NO CEILING.



1 MECHANICAL DUCTWORK PLAN - FIRST FLOOR - OVERALL
3/16" = 1'-0"

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
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PROJECT NO: 24-0035-00
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MECHANICAL DUCTWORK PLAN

M2.01

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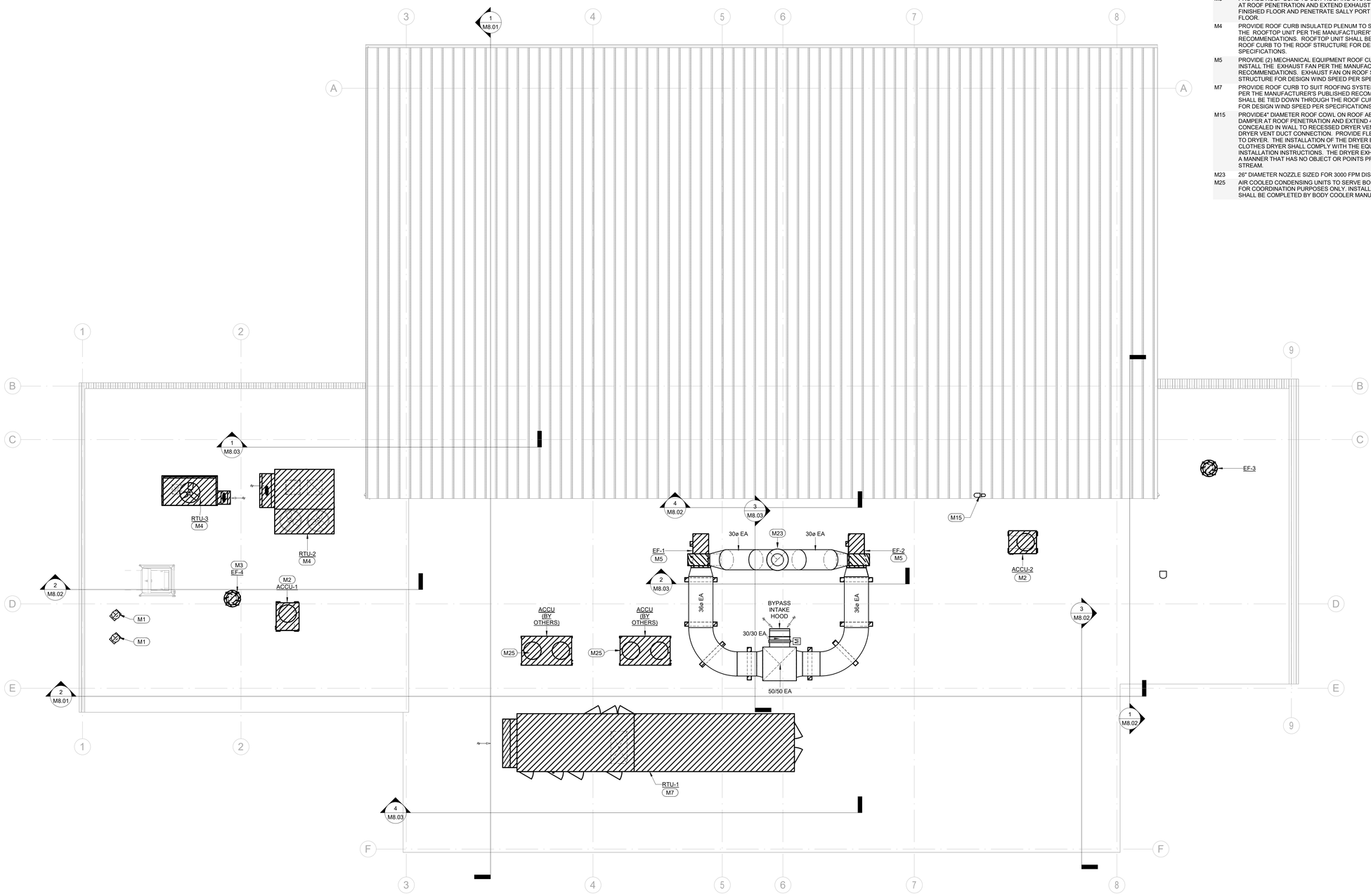
MECHANICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

M1	PROVIDE VERTICAL CONCENTRIC VENT KIT FROM THE GAS FIRED WATER HEATER MANUFACTURER. EXTEND 3" DIAMETER COMBUSTION AIR INTAKE AND 3" DIAMETER FLUE GAS VENT UP TO THE VERTICAL CONCENTRIC VENT THROUGH ROOFING SYSTEM. INSTALL PER PUBLISHED MANUFACTURER'S RECOMMENDATIONS AND TO SUIT ROOFING SYSTEM. SEE SHEET M5.02 - MECHANICAL DETAILS DETAIL 3.
M2	PROVIDE (2) MECHANICAL EQUIPMENT ROOF CURBS TO SUIT ROOFING SYSTEM. INSTALL THE CONDENSING UNIT PER THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. CONDENSING UNIT SHALL BE TIED DOWN TO ROOF STRUCTURE FOR DESIGN WIND SPEED PER SPECIFICATIONS.
M3	PROVIDE ROOF CURB TO SUIT ROOFING SYSTEM. PROVIDE MOTORIZED DAMPER AT ROOF PENETRATION AND EXTEND EXHAUST DUCT DOWN IN FURRING TO FINISHED FLOOR AND PENETRATE SALLY PORT WALL 12" ABOVE FINISHED FLOOR.
M4	PROVIDE ROOF CURB INSULATED PLENUM TO SUIT ROOFING SYSTEM. INSTALL THE ROOFTOP UNIT PER THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. ROOFTOP UNIT SHALL BE TIED DOWN THROUGH THE ROOF CURB TO THE ROOF STRUCTURE FOR DESIGN WIND SPEED PER SPECIFICATIONS.
M5	PROVIDE (2) MECHANICAL EQUIPMENT ROOF CURBS TO SUIT ROOFING SYSTEM. INSTALL THE EXHAUST FAN PER THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. EXHAUST FAN ON ROOF SHALL BE TIED DOWN TO ROOF STRUCTURE FOR DESIGN WIND SPEED PER SPECIFICATIONS.
M7	PROVIDE ROOF CURB TO SUIT ROOFING SYSTEM. INSTALL THE ROOFTOP UNIT PER THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. ROOFTOP UNIT SHALL BE TIED DOWN THROUGH THE ROOF CURB TO THE ROOF STRUCTURE FOR DESIGN WIND SPEED PER SPECIFICATIONS.
M15	PROVIDE4" DIAMETER ROOF COWL ON ROOF ABOVE AND PROVIDE BACKDRAFT DAMPER AT ROOF PENETRATION AND EXTEND 4" DIAMETER VENT DOWN CONCEALED IN WALL TO RECESSED DRYER VENT BOX AND STUB OUT 4" FLEX DRYER VENT DUCT CONNECTION. PROVIDE FLEX METAL DUCT AND CONNECT TO DRYER. THE INSTALLATION OF THE DRYER EXHAUST DUCT SERVING CLOTHES DRYER SHALL COMPLY WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE DRYER EXHAUST DUCT SHALL BE FASTEN IN A MANNER THAT HAS NO OBJECT OR POINTS PROTRUDING INTO THE AIR STREAM.
M23	26" DIAMETER NOZZLE SIZED FOR 3000 FPM DISCHARGE VELOCITY.
M25	AIR COOLED CONDENSING UNITS TO SERVE BODY COOLER ROOM ARE SHOWN FOR COORDINATION PURPOSES ONLY. INSTALLATION AND PROCUREMENT SHALL BE COMPLETED BY BODY COOLER MANUFACTURER/CONTRACTOR.



1 MECHANICAL DUCTWORK PLAN - ROOF - OVERALL
3/16" = 1'-0"

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

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MECHANICAL DUCTWORK ROOF PLAN

M2.02

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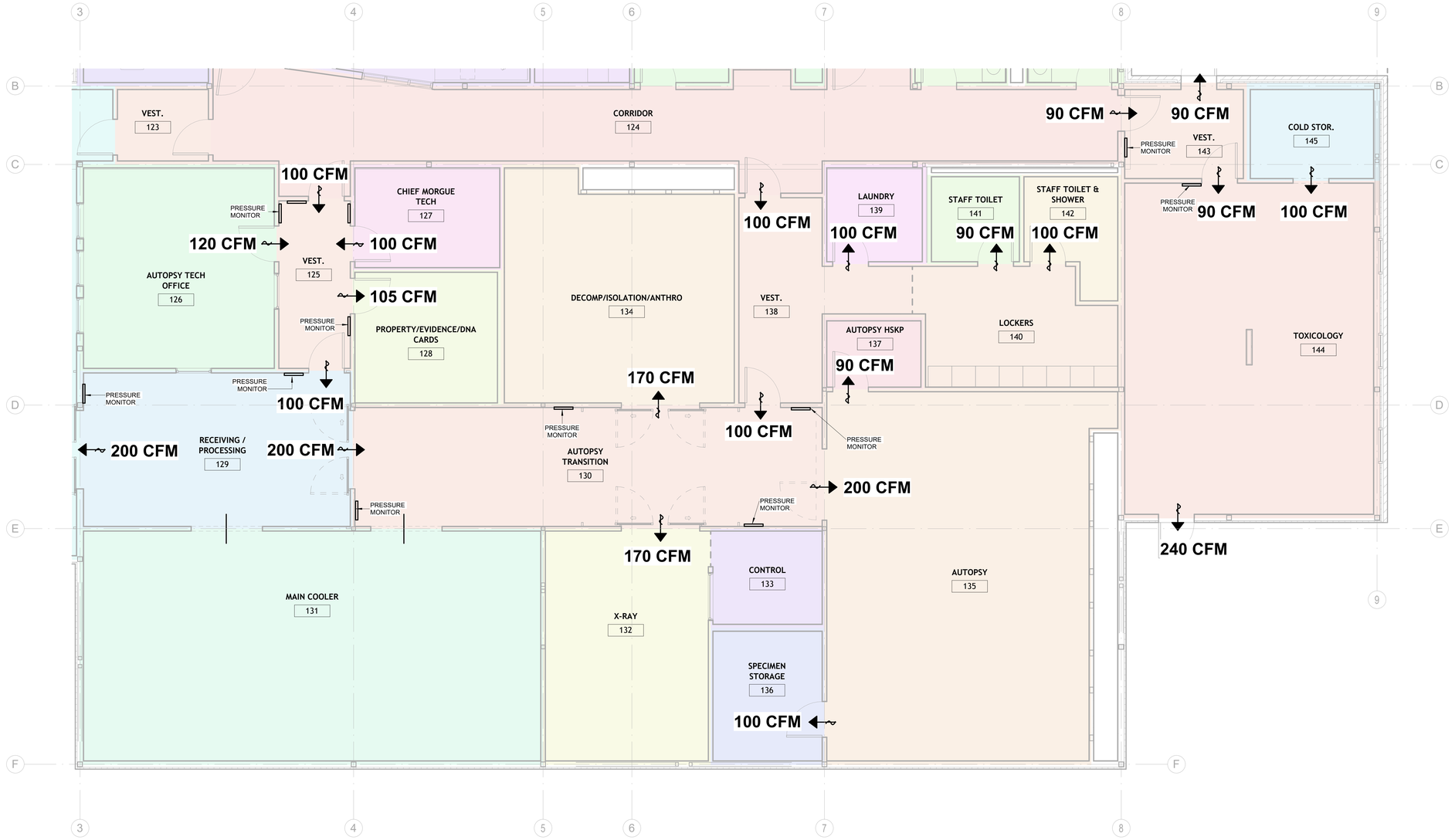

ROOM AIR BALANCE SCHEDULE

ROOM NUMBER	ROOM NAME	ROOM AREA (SF)	SUPPLY AIR			EXHAUST AIR					
			TYPE	CFM MAXIMUM - SA	CFM MIN - SA	TYPE	CFM MAX - EA	CFM MIN - EA	OFFSET (CFM)	MAX. ACH.	MIN. ACH.
135	AUTOPSY	697	SA	-	2350	GE	-	2360	10	-	20
137	AUTOPSY HSKP	44	SA	-	70	GE	-	160	- 90		10
126	AUTOPSY TECH OFFICE	272	SA	-	440	GE	-	320	120	-	10
130	AUTOPSY TRANSITION	396	SA								20
127	CHIEF MORGUE TECH	103	SA	-	155	GE	-	55	100	-	10
145	COLD STOR	79	SA	-	100	GE	-	0	100	-	8
134	DECOMP/ISOLATION/ANTHRO	355	SA	-	1480	GE	-	1650	- 170	-	25
139	LAUNDRY	67	SA	-	100	GE	-	200	- 100	-	10
140	LOCKERS	158	SA								10
128	PROPERTY/EVIDENCE/DNA CARDS	132	SA	-	400	GE	-	505	- 105		20
129	RECEIVING/PROCESSING	292	SA	-	970	GE	-	670	300	-	20
136	SPECIMEN STORAGE	102	SA	-	340	GE	-	440	- 100	-	20
141	STAFF TOILET	53	SA	-	80	GE	-	180	-100	-	10
142	STAFF TOILET & SHOWER	67	SA	-	100	GE	-	200	-100	-	10
144	TOXICOLOGY	587	SA								8
125	VEST.	85	SA								10
138	VEST.	152	SA								10
143	VEST.	75	SA								8
132	X-RAY	340	SA	-	1130	GE	-	1300	- 170	-	20

1 MECHANICAL AIRFLOW DIAGRAM - PRESSURE OFFSETS
1/4" = 1'-0"

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DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
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MECHANICAL AIRFLOW DIAGRAM - PRESSURE OFFSETS

M2.03

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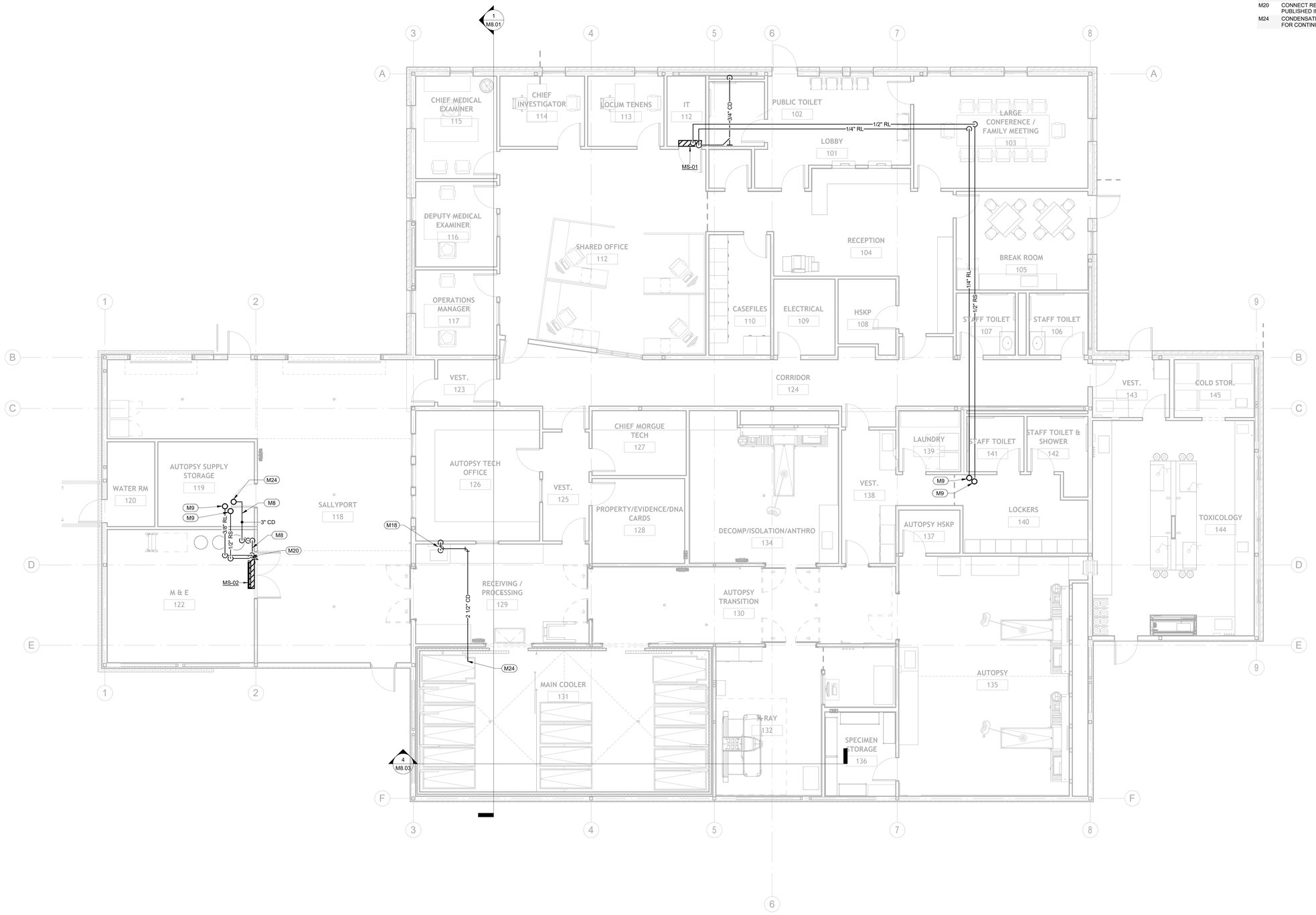
MECHANICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

M8	ROUTE CONDENSATE DRAIN PIPING AS HIGH AS POSSIBLE AND TURN DOWN AND TERMINATE WITH AIR GAP ABOVE FLOOR SINK IN M&E 122 . PROVIDE CLEANOUT AT TURNS GREATER THAN 45 DEGREES.
M9	ROUTE REFRIGERANT PIPING UP THROUGH A ROOF CURB. SEE ROOF PIPE CURB DETAIL 2 ON SHEET M5.02.
M18	ROUTE CONDENSATE DRAIN PIPING AS HIGH AS POSSIBLE AND TURN DOWN IN CONCEALED IN WALL AND TERMINATE WITH AIR GAP ABOVE FLOOR SINK BELOW SINK IN RECEIVING / PROCESSING 129 . PROVIDE CLEANOUT AT TURNS GREATER THAN 45 DEGREES.
M20	CONNECT REFRIGERANT PIPING FROM OUTDOOR UNIT TO INDOOR UNIT PER PUBLISHED INSTALLATION RECOMMENDATIONS.
M24	CONDENSATE DRAIN PIPING DOWN THROUGH ROOF ABOVE. SEE SHEET M3.02 FOR CONTINUATION.



1 MECHANICAL PIPING PLAN - FIRST FLOOR - OVERALL
3/16" = 1'-0"

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DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
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MECHANICAL PIPING PLAN

M3.01

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Date: 03-08-2025
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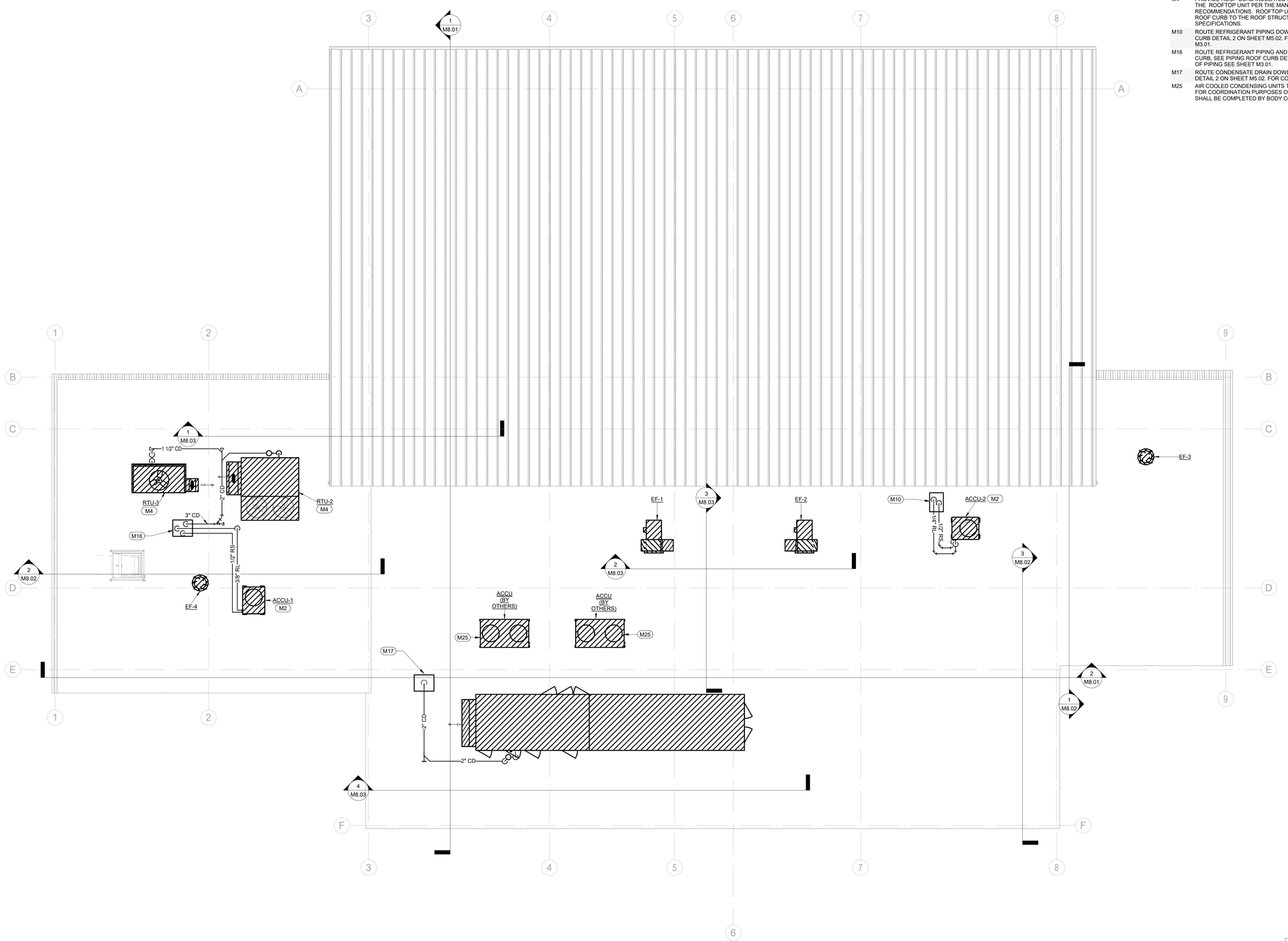
TBPE FIRM REGISTRATION NO. F-421

2/28/2025 11:07:05 AM



1 MECHANICAL PIPING PLAN - ROOF - OVERALL
3/16" = 1'-0"

MECHANICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

M2	PROVIDE (2) MECHANICAL EQUIPMENT ROOF CURBS TO SUIT ROOFING SYSTEM. INSTALL THE CONDENSING UNIT PER THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. CONDENSING UNIT SHALL BE TIED DOWN TO ROOF STRUCTURE FOR DESIGN WIND SPEED PER SPECIFICATIONS.
M4	PROVIDE ROOF CURB INSULATED PLENUM TO SUIT ROOFING SYSTEM. INSTALL THE ROOFTOP UNIT PER THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. ROOFTOP UNIT SHALL BE TIED DOWN THROUGH THE ROOF CURB TO THE ROOF STRUCTURE FOR DESIGN WIND SPEED PER SPECIFICATIONS.
M10	ROUTE REFRIGERANT PIPING DOWN THROUGH ROOF CURB, SEE PIPING ROOF CURB DETAIL 2 ON SHEET M5.02. FOR CONTINUATION OF PIPING SEE SHEET M3.01.
M16	ROUTE REFRIGERANT PIPING AND CONDENSATE DRAIN DOWN THROUGH ROOF CURB, SEE PIPING ROOF CURB DETAIL 2 ON SHEET M5.02. FOR CONTINUATION OF PIPING SEE SHEET M3.01.
M17	ROUTE CONDENSATE DRAIN DOWN THROUGH ROOF SEE PIPING ROOF CURB DETAIL 2 ON SHEET M5.02. FOR CONTINUATION OF PIPING SEE SHEET M3.01.
M25	AIR COOLED CONDENSING UNITS TO SERVE BODY COOLER ROOM ARE SHOWN FOR COORDINATION PURPOSES ONLY. INSTALLATION AND PROCUREMENT SHALL BE COMPLETED BY BODY COOLER MANUFACTURER/CONTRACTOR.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL PIPING ROOF PLAN

M3.02

DRG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

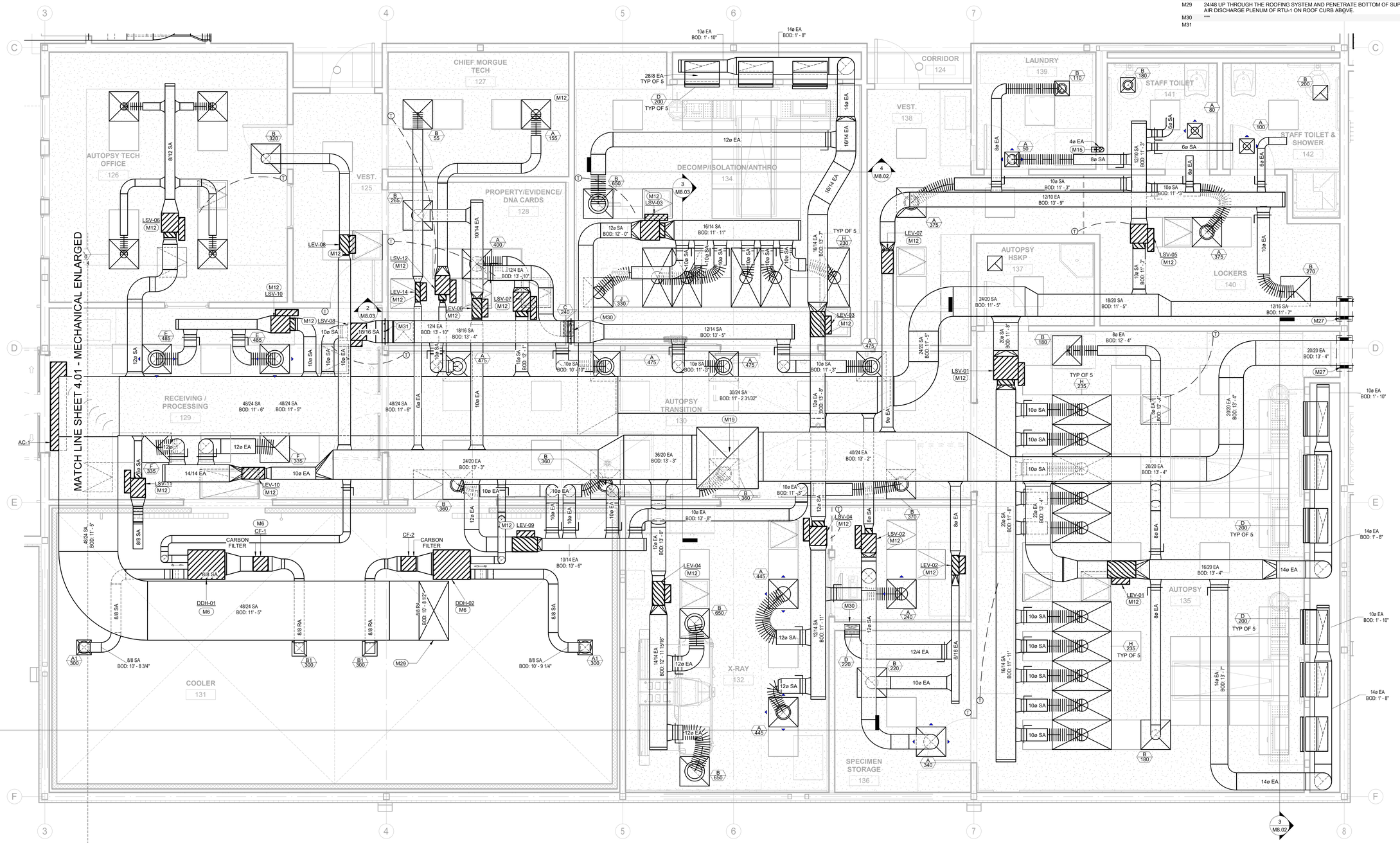
DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

2/28/2025 11:07:10 AM

MECHANICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

M6	PROVIDE SUPPORT STEEL AND SUSPEND UNIT ON SPRING ISOLATOR'S ABOVE THE ROOF OF THE MAIN COOLER. COVER ENTIRE UNIT WITH ARMOR FLEX INSULATION AND PROVIDE A INSULATION FLAP OVER CONTROLS TO PREVENT CONDENSATION FROM FORMING ON THE OUTSIDE OF THE UNIT.
M12	PROVIDE SUPPORT STEEL AND SUSPEND LABORATORY AIR VALVE FROM THE STRUCTURE ABOVE MAINTAIN SERVICE CLEARANCE TO AIR VALVE AND ELECTRICAL DISCONNECT ON THE (LSV) SUPPLY AIR VALVES WITH ELECTRIC RE-HEAT COILS.
M15	PROVIDE4" DIAMETER ROOF COWL ON ROOF ABOVE AND PROVIDE BACKDRAFT DAMPER AT ROOF PENETRATION AND EXTEND 4" DIAMETER VENT DOWN CONCEALED IN WALL TO RECESSED DRYER VENT BOX AND STUB OUT 4" FLEX DRYER VENT DUCT CONNECTION. PROVIDE FLEX METAL DUCT AND CONNECT TO DRYER. THE INSTALLATION OF THE DRYER EXHAUST DUCT SERVING CLOTHES DRYER SHALL COMPLY WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE DRYER EXHAUST DUCT SHALL BE FASTEN IN A MANNER THAT HAS NO OBJECT OR POINTS PROTRUDING INTO THE AIR STREAM.
M19	SEE SHEET M2.02 FOR CONTINUATION.
M27	THE DUCT IS PASSING THROUGH A STINK WALL. SEE STINK WALL PENETRATION SEALING DETAIL NUMBER 10 ON SHEET M5.01.
M29	24/48 UP THROUGH THE ROOFING SYSTEM AND PENETRATE BOTTOM OF SUPPLY AIR DISCHARGE PLENUM OF RTU-1 ON ROOF CURB ABOVE.
M30	***
M31	



1 ENLARGED MECHANICAL DUCTWORK PLAN - FIRST FLOOR - AUTOPSY
3/8" = 1'-0"

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

INTERIM REVIEW
Not for regulatory approval, permitting or construction
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License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC, TBPE FIRM REGISTRATION NO. F-421

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SAN ANTONIO, TEXAS 78216
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FAX: (210) 366-0847

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PROJECT NO: 24-0035-00
DATE: 20250308

ENLARGED MECHANICAL DUCTWORK PLAN

M4.01

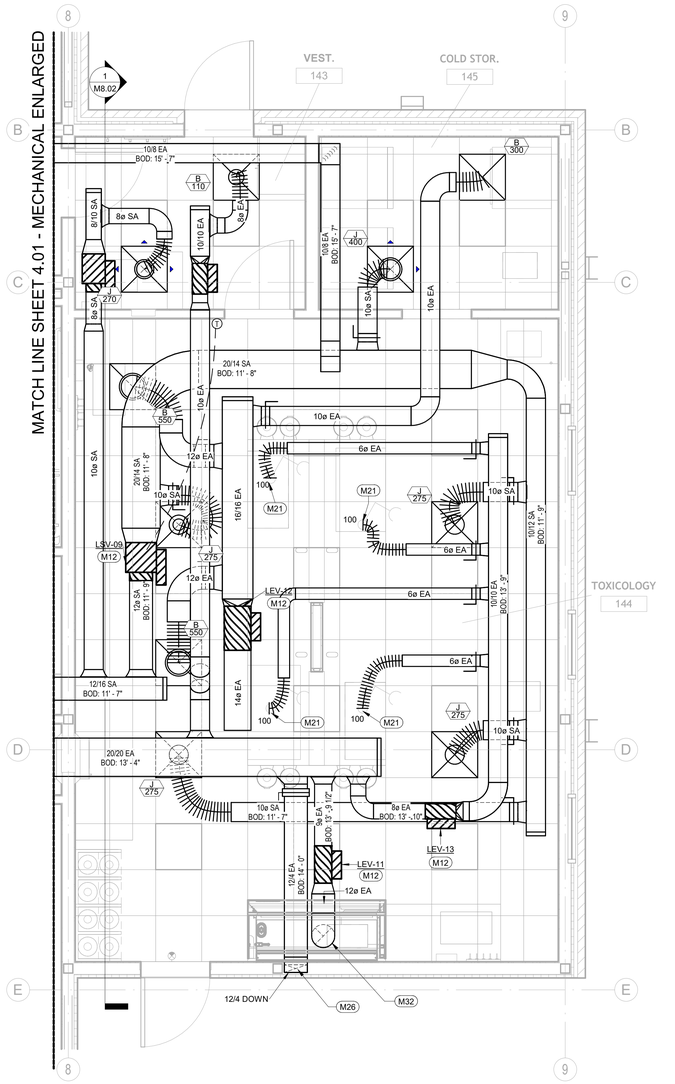
DRG REFERENCE

2/28/2025 11:07:11 AM

MECHANICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

M12	PROVIDE SUPPORT STEEL AND SUSPEND LABORATORY AIR VALVE FROM THE STRUCTURE ABOVE. MAINTAIN SERVICE CLEARANCE TO AIR VALVE AND ELECTRICAL DISCONNECT ON THE (LSV) SUPPLY AIR VALVES WITH ELECTRIC RE-HEAT COILS.
M21	EXTEND FLEX CONNECTION TO SNORKEL CONNECTION AND CONNECT.
M26	EXTEND THE 12X4 EXHAUST AIR DUCT CONCEALED IN WALL TO JUST BELOW THE 1 1/2" CABINET CONNECTION. CONNECT THE CABINET EXHAUST TO THE DUCT IN WALL AND BALANCE THE BRANCH DUCT SERVING THE CABINET TO 25 CFM.
M32	



1 ENLARGED MECHANICAL DUCTWORK PLAN - FIRST FLOOR - TOXICOLOGY
3/8" = 1'-0"

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
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PROJECT NO: 24-0035-00
DATE: 20250308

ENLARGED MECHANICAL DUCTWORK PLAN

M4.02

DRG REFERENCE

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License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
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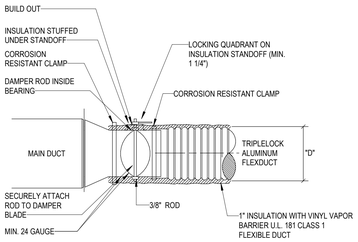
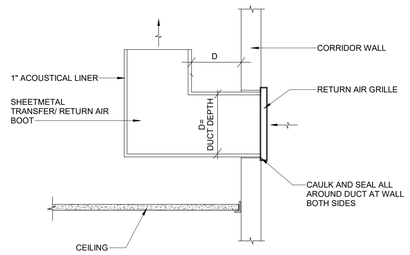
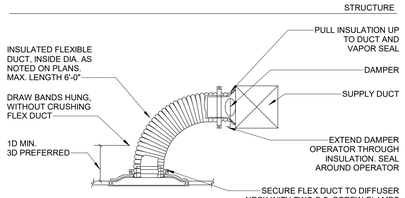


NOTES: ALL FLEXIBLE DUCT OFFSETS & BENDS SHALL MAINTAIN C RADIUS OF 1.5("D") MIN. 3'-0" MAX. 6'-0"

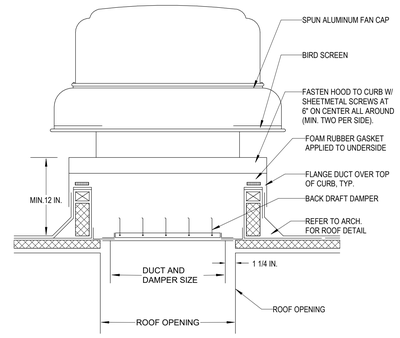


NOTE:
COAT ALL INTERIOR SURFACES AND EDGES OF FIBERGLASS INSULATION WITH FOSTER 40-20 ANTI-MICROBIOLOGICAL SEALANT AND A FINAL COAT OF FOSTER 40-10.



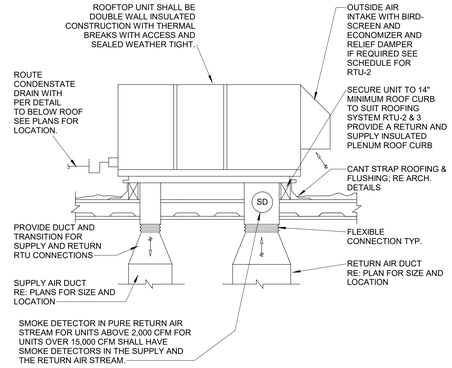
NOTES:

1. SEAL ALL JOINTS PER SPECIFICATIONS.
2. FLEX DUCT SAG LIMITED TO 1/2" PER FOOT.
3. MAX 30º OFFSET ALLOWED IN FLEX DUCT ROUTING.



NOTES:

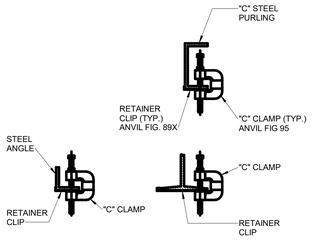
1. PROVIDE TRANSITION AS REQUIRED AT FAN



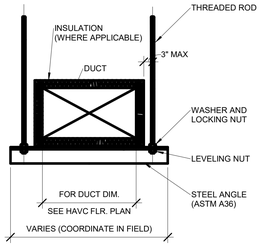
NOTE:

1. LIFT AND INSTALL RTU PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. REFER TO SPECIFICATIONS AND SCHEDULE FOR ACCESSORY REQUIREMENTS.
3. PROVIDE OPERATING AND SERVICE CLEARANCES PER MANUFACTURER RECOMMENDATIONS.
4. SET THE UNIT ONTO THE CURB, CHECK FOR LEVELNESS.

5 CONICAL SPIN-IN WITH BUILDOUT
NTS

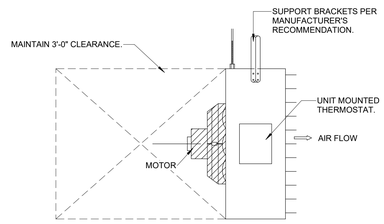


4 TRANSFER BOOT WITH SIDEWALL GRILLE
NTS

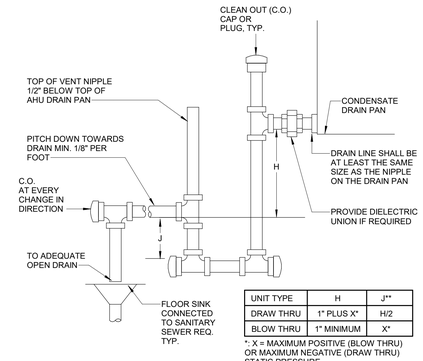


RECTANGULAR DUCT HANGERS MINIMUM SIZE				
MAXIMUM HALF OF DUCT PERIMETER	SPACING = 10 FEET		SPACING = 5 FEET	
	ANGLE	ROD	ANGLE	ROD
P/2=72"	2"X2"1/4"	3/8"	2"X2"1/4"	3/8"
P/2=96"	21/2"X2 1/2" 3/16"	3/8"	21/2"X2 1/2" 3/16"	3/8"
P/2=120"	2 1/2"X2 1/2"X1/4"	1/2"	2 1/2"X2 1/2"X1/4"	1/2"
P/2=168"	2 1/2"X2 1/2"X1/2"	1/2"	2 1/2"X2 1/2"X1/2"	1/2"
P/2=192"	N/A	N-A	N/A	N-A

3 LAY - IN CEILING DIFFUSER
NTS



2 DOWNBLAST EXHAUST FAN
NTS



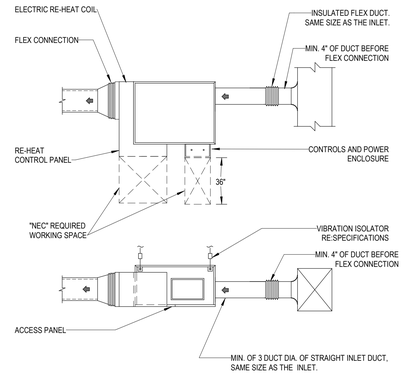
UNIT TYPE	H	J**
DRAW THRU	1" PLUS X*	H/2
BLOW THRU	1" MINIMUM	X*

*: X = MAXIMUM POSITIVE (BLOW THRU) OR MAXIMUM NEGATIVE (DRAW THRU) STATIC PRESSURE.
**: J NEEDS TO BE MINIMUM 1"

NOTES:

1. CONNECT CONDENSATE DRAIN AS DETAILED HERE (OR PER MANUFACTURER'S IOM IF A MORE CONSERVATIVE DESIGN).
2. PITCH THE DRAIN LINE AT LEAST 1/4 INCH PER FOOT OF HORIZONTAL RUN.

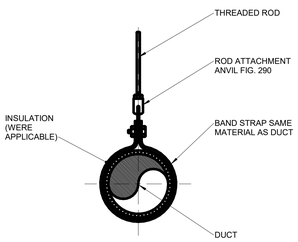
1 ROOF TOP UNIT
NTS



NOTE:

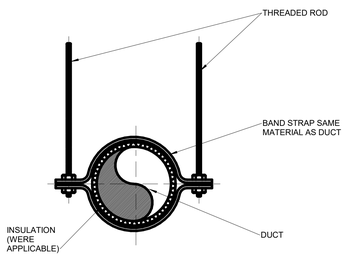
1. ALL CLEATS JOINTS SHOULD BE SEALED WITH AN APPROVED DUCT SEALER.
2. HOLES THAT ARE DRILLED IN THE DUCT FOR TESTING OR BALANCING PURPOSE ARE TO BE SEALED.

9 RECTANGULAR DUCT SUPPORT DETAIL
1/4" = 1'-0"



NOTE:
MAX DUCT DIAMETER 36"

TYPE B1

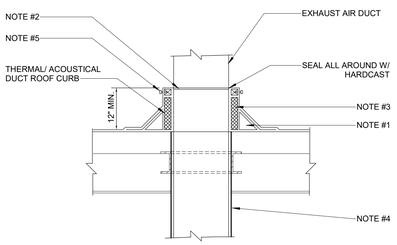


NOTE:
MAX DUCT DIAMETER 96"

TYPE B2

ROUND DUCT HANGERS MINIMUM SIZE		
DUCT DIAMETER	SPACING = 10 FEET	
	BAND (WXT)	ROD
4"-12"	2"X2"1/4"	3/8"
14"-30	2" X3/16"	3/8"
32"-36"	2 1/2"X1/4"	3/8"
38"-48"	2 1/2"X1/4"	3/8" (2)
50"-72"	4"X3/8"	3/8" (2)
74"-96"	6"X1/2"	3/8" (2)

8 ELECTRIC UNIT HEATER
NTS

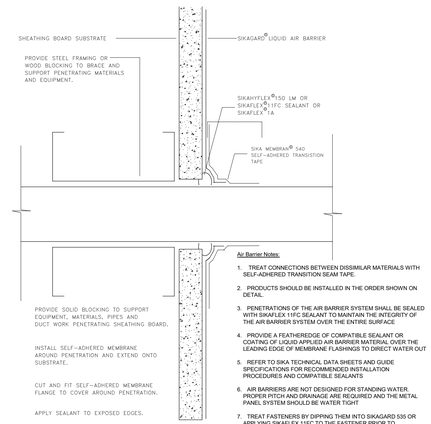


NOTES:

1. SECURE DUCT ROOF CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH ROOF CONSTRUCTION. SECURE DUCT ROOF CURB TO ROOF USING FASTENERS AT 12" O.C. BEFORE APPLYING ROOFING FELT & ROOF INSULATION.
2. EXPOSED EDGES OF INSULATION TO BE SEALED VAPOR TIGHT WITH SEALANT.
3. FILL ANNULAR SPACE WITH INSULATION AS REQUIRED. REFER TO SPECIFICATION FOR TYPE.
4. DUCT INSULATION SHALL EXTEND A MINIMUM OF 10'-0" INTO BUILDING FROM ROOF PENETRATION. INSTALL LINEAR WITH FOIL FACING TOWARD AIR STREAM.
5. SECURE DUCT TO ROOF CURB WITH SHEET METAL SCREWS AT 12" O.C. ALL AROUND (MINIMUM OF (2) 3/4" LONG PER SIDE).

7 CONDENSATE DRAIN TRAP
NTS

6 SERIES - FAN POWERED TERMINAL UNIT
NTS



Air Barrier Notes:

1. TREAT CONNECTIONS BETWEEN DISSIMILAR MATERIALS WITH SELF-ADHERED TRANSITION SEAM TAPE.
2. PRODUCTS SHOULD BE INSTALLED IN THE ORDER SHOWN ON DETAIL.
3. PENETRATIONS OF THE AIR BARRIER SYSTEM SHALL BE SEALED WITH SIKAFLEX 11FC SEALANT TO MAINTAIN THE INTEGRITY OF THE AIR BARRIER SYSTEM OVER THE ENTIRE SURFACE
4. PROVIDE A FEATHEREDGE OF COMPATIBLE SEALANT OR COATING OF LIQUID APPLIED AIR BARRIER MATERIAL OVER THE LEADING EDGE OF MEMBRANE FLASHINGS TO DIRECT WATER OUT
5. REFER TO SIKA TECHNICAL DATA SHEETS AND GUIDE SPECIFICATIONS FOR RECOMMENDED INSTALLATION PROCEDURES AND COMPATIBLE SEALANTS
6. AIR BARRIERS ARE NOT DESIGNED FOR STANDING WATER. PROPER PITCH AND DRAINAGE ARE REQUIRED AND THE METAL PANEL SYSTEM SHOULD BE WATER TIGHT
7. TREAT FASTENERS BY DIPPING THEM INTO SIKAGARD 535 OR APPLYING SIKAFLEX 11FC TO THE FASTENER PRIOR TO
8. SIKA MEMBRAN 540 PLUS MAY BE USED IN LIEU OF SIKA MEMBRAN 540 ESPECIALLY WHEN THE SUBSTRATE IS CMU OR CONCRETE. TEST ON SITE TO VERIFY ADEQUATE ADHESION INSTALLATION
9. SIKA DETAIL IS NOT INTENDED TO SHOW EXACT CONSTRUCTION DETAILING, BUT IS SIMPLY SHOWN HERE AS A REPRESENTATIVE TYPE DETAIL TO HIGHLIGHT THE AIR BARRIER AND TRANSITIONS

12 ROUND DUCT SUPPORT DETAIL
1/4" = 1'-0"

11 DUCT ROOF PENETRATION
NTS

10 STINK WALL PENETRATION SEALING DETAIL
NTS

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL DETAILS

M5.01

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DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

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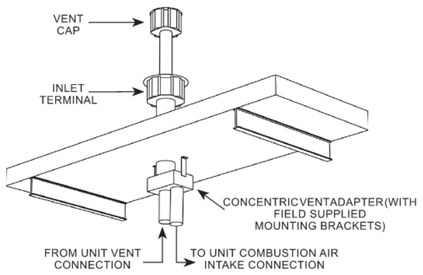
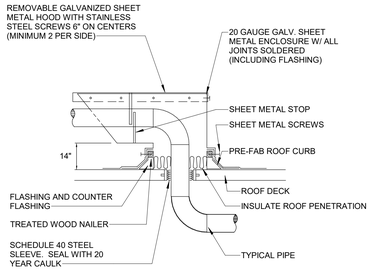


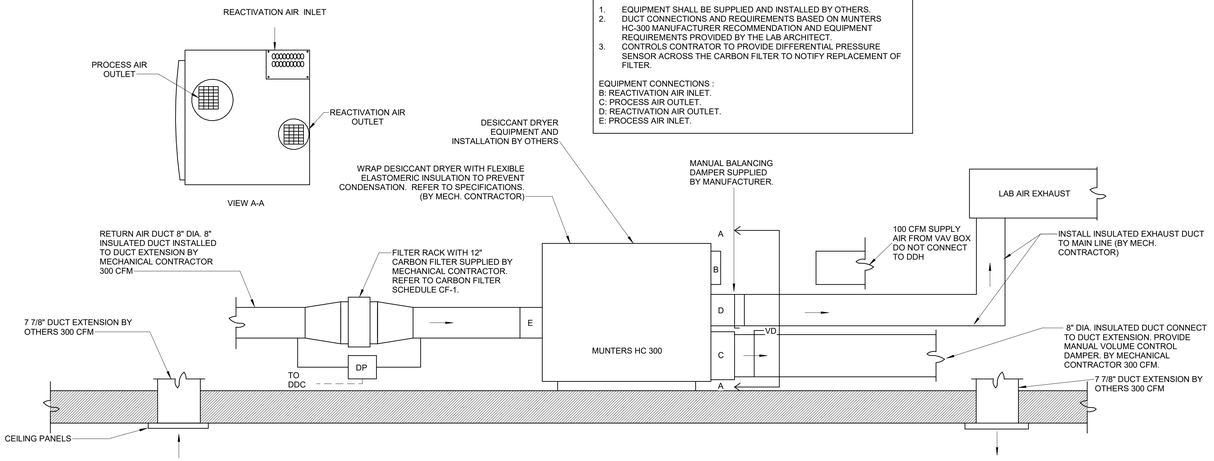
DETAIL FOR GAS WATER HEATERS ONLY

3 VERTICAL CONCENCTRIC VENT KIT
NTS

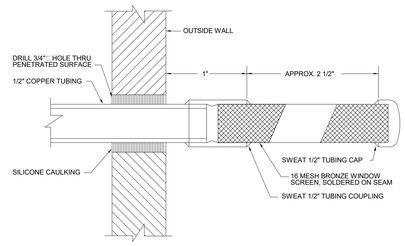


NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.

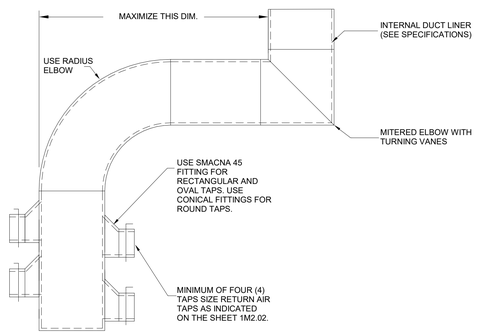
2 ROOF PIPE CURB
NTS



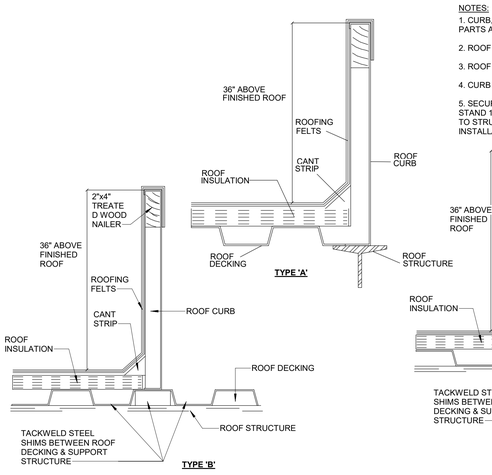
1 BODY COOLER DESICCANT DRYER CONNECTION
NTS



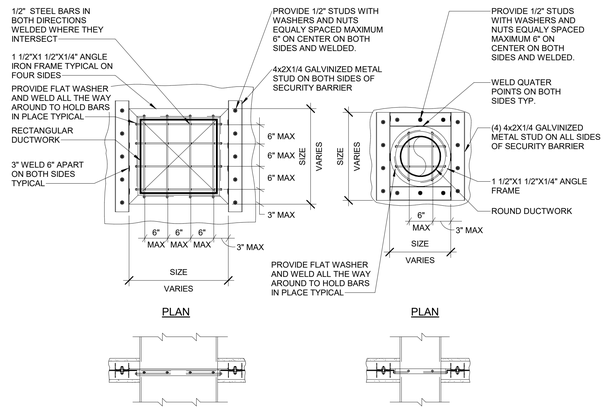
6 OUTSIDE AIR PRESSURE SENSOR
NTS



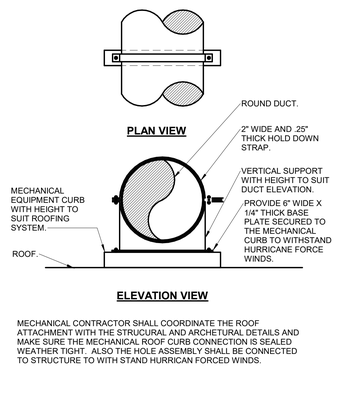
5 RETURN AIR PLENUM DETAIL
NTS



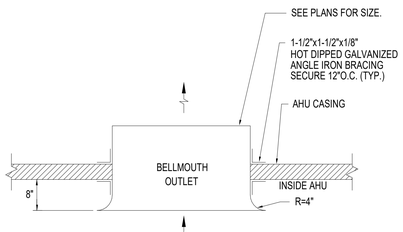
4 ACOUSTICAL ROOF CURB
NTS



9 DUCTWORK SECURITY BAR DETAIL
3/4" = 1'-0"



8 DUCT SUPPORT SADDEL DETAIL
1/4" = 1'-0"



7 AHU BELL MOUTH DUCT CONNECTION DETAIL
NTS

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DESIGNED BY: JOHNSTON

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Lic. No.: T56118, MSD Date: 03-08-2025
JOHNSTON LLC
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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

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MECHANICAL DETAILS

M5.02

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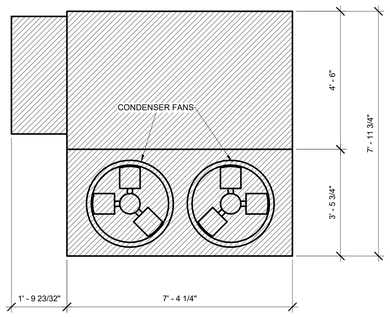
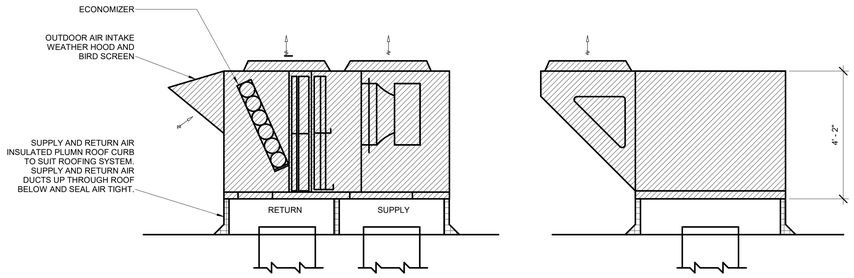
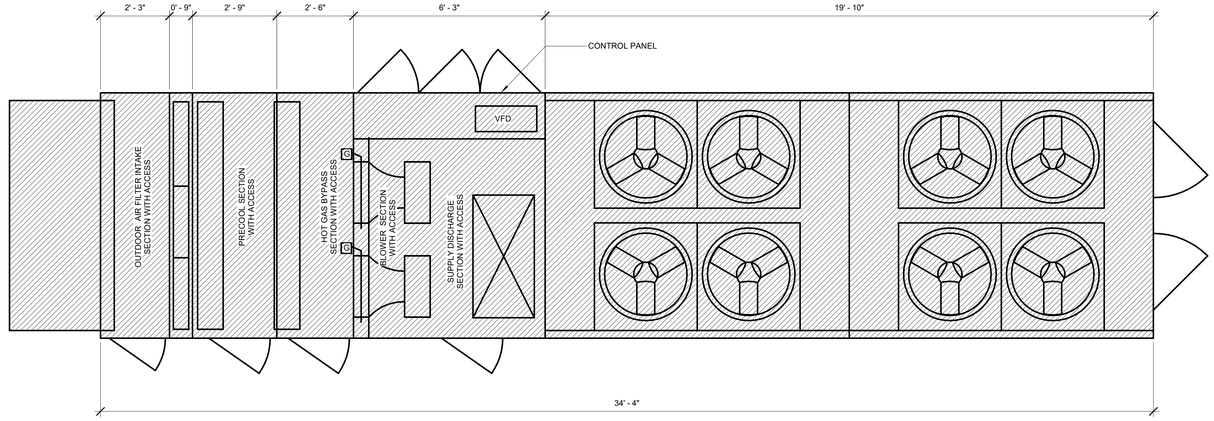


PLAN VIEW

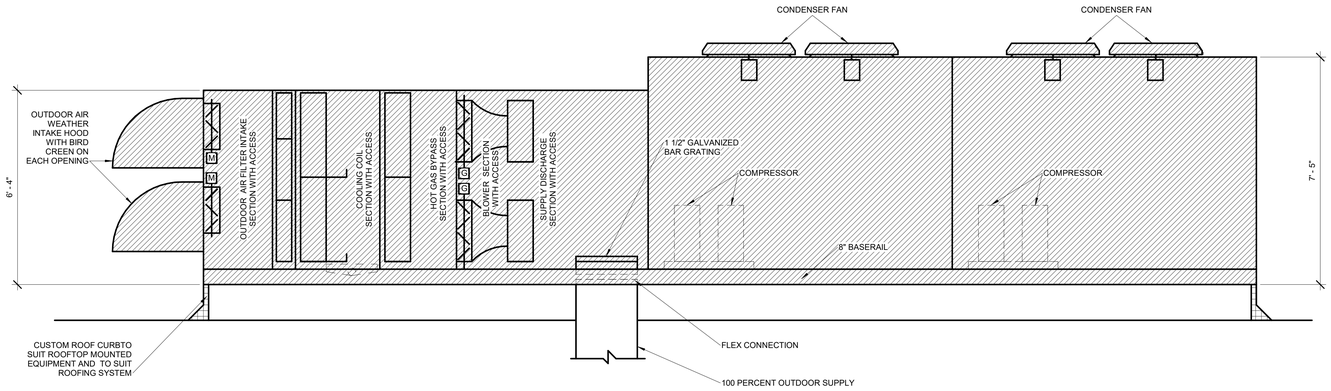


ELEVATION VIEW **END VIEW**

2 RTU-2 INSTALLTATION SCHEMATIC
NTS

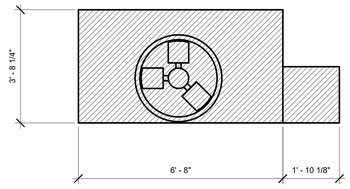


PLAN VIEW

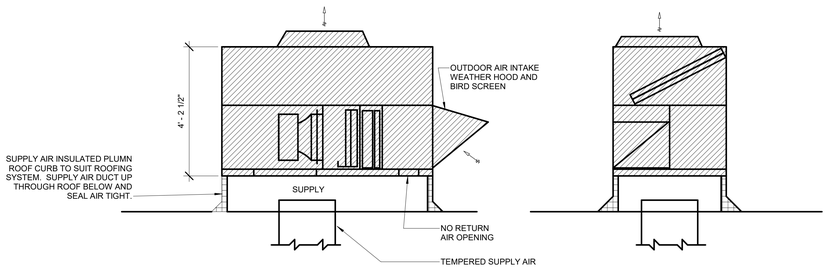


ELEVATION VIEW

1 RTU-1 DOAU INSTALLATION SCHEMATIC
NTS



PLAN VIEW



ELEVATION VIEW **END VIEW**

3 RTU-3 INSTALLTATION SCHEMATIC
NTS

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DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
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ROOFTOP UNIT'S INSTALLATION SCHEMATIC

M6.01

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MECHANICAL CONTROLS ABBREVIATIONS

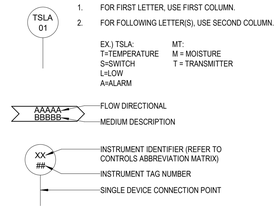
GENERAL ABBREVIATIONS		EQUIPMENT ABBREVIATIONS		CONTROLS ABBREVIATIONS	
ABBR.	DEFINITION	ABBR.	DEFINITION	ABBR.	DEFINITION
ADJ	ADJUSTABLE	ACU	AIR CONDITIONING UNIT	ACPS	ADDRESSABLE CHARGER POWER SUPPLY
AF	AIR FILTER	AHU	AIR HANDLING UNIT	AI	ANALOG INPUT
AFM	AIR FLOW METER	ACC	AIR COOLED CONDENSER	ALM	ALARM
BTU	BRITISH THERMAL UNIT	AT	AIR TERMINAL	AO	ANALOG OUTPUT
BTUH	BRITISH THERMAL UNITS PER HOUR	ASC	AIR SYSTEM CONTROLLER	ATC	AUTO MATIC TEMP CONTROLLER
CAV	CONSTANT AIR VOLUME	ATS	AUTOMATIC TRANSFER SWITCH	BAS	BUILDING AUTOMATION SYSTEM
CFM	CUBIC FEET PER MINUTE	BC	BUILDING CONTROLLER	CAS	CLEAN AIR SUPPLY
CHW	CHILLED WATER	BLC	BUILDING LEVEL CONTROLLER	CP	CONTROL PANEL
COND	CONDENSATE/CONDENSER	CC	COOLING COIL	CV	CHECK VALVE
CPD	CONDENSATE PRESSURE DISCHARGE	CD	CONTROL DAMPER	DI	DIGITAL INPUT
CW	CONDENSER WATER	CHK	CHECK VALVE	DO	DIGITAL OUTPUT
DAT	DISCHARGE AIR TEMPERATURE	CHL	CHILLER	ERW	ENERGY RECOVERY WATER
DB	DRY BULB	CMP	COMPRESSOR	FM	FACTORY MOUNTED
DDC	DIRECT DIGITAL CONTROL	CRAC	COMPUTER ROOM AC UNIT	FP	FIRE ALARM PANEL
DP	DIFFERENTIAL PRESSURE	CTP	CONTROL PANEL	HF	HEPA FILTER
DX	DIRECT EXPANSION	CTR	CONTROL	HHW	HEATING HOT WATER
EA	EXHAUST AIR	CVT	CONVERTOR	IPS	INCHES PER SECOND
EAT	ENTERING AIR TEMPERATURE	DOAS	DEDICATED OUTDOOR AIR SYSTEM	MS	MOTOR STARTER
ESP	EXTERNAL STATIC PRESSURE	EAF	EXHAUST AIR FAN	MV	MODULATING VALVE
ETR	EXISTING TO REMAIN	EAT	EXHAUST AIR TERMINAL	NAC	NOTIFICATION ALARM CIRCUIT
EWT	ENTERING WATER TEMPERATURE	EAV	EXHAUST AIR VALVE	NRML	NORMAL
EXH	EXHAUST	FCU	FAN COIL UNIT	OL	OVERLOAD CONTACT
FA	FIELD ADJUSTABLE	F	FILTER	P	PUMP
FE	FUME HOOD EXHAUST	FFU	FAN FILTER UNIT	RT	ROUTER
FIP	FAIL IN PLACE	HC	HEATING COIL	SDP	SOFTWARE DATA POINT
FLA	FULL LOAD AMPS	HGRC	HOT GAS REHEAT COIL	SLC	SINGLE LINE CIRCUIT
FPS	FEET PER SECOND	HRC	HEAT RECOVERY COIL	SQL	STRUCTURED QUERY LANGUAGE
GE	GENERAL EXHAUST	HUM	HUMIDIFIER	TAB	TEST, ADJUST & BALANCE
GPM	GALLONS PER MINUTE	HX	HEAT EXCHANGER	TX	TRANSFORMER
IP	INTERNET PROTOCOL	MAF	MAKE-UP AIR FAN	UD	USER DEFINED
LAT	LEAVING AIR TEMPERATURE	MD	MANUAL DAMPER	VFD	VARIABLE FREQUENCY DRIVE
LCP	LAST COMMANDED POSITION	MS	MOTOR STARTER	VLAN	VIRTUAL LOCAL AREA NETWORK
LWT	LEAVING WATER TEMPERATURE	PDU	POWER DISTRIBUTION UNIT		
MBH	THOUSANDS OF BTU PER HOUR	PC	PLANT CONTROLLER		
MSI	MASTER SYSTEMS INTEGRATOR	PCI	PHOENIX CONTROLS INTEGRATOR		
NA	NOT APPLICABLE	PHC	PREHEAT COIL		
NC	NORMALLY CLOSED	PMP	PUMP		
NO	NORMALLY OPEN	RAF	RETURN AIR FAN		
NTS	NOT TO SCALE	RAT	RETURN AIR TERMINAL		
OA	OUTSIDE AIR	RAV	RETURN AIR VALVE		
OM	OPERATING MODE	RHC	REHEAT COIL		
OS	OPTIMIZATION SUPERVISOR	SAF	SUPPLY AIR FAN		
PCF	POUNDS PER CUBIC FOOT	SAT	SUPPLY AIR TERMINAL		
PD	PRESSURE DROP	SAV	SUPPLY AIR VALVE		
PE	PROTECTIVE ENVIRONMENT	TEM	TEMPERATURE INDICATOR		
PH	PHASE	UPS	UNINTERRUPTIBLE POWER SUPPLY		
PSI	POUNDS PER SQUARE INCH	VAL	VALVE		
PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VFD	VARIABLE FREQUENCY DRIVE		
PSID	POUNDS PER SQUARE INCH DIFFERENTIAL	VRC	VIBRATION RECORDING CONTROLLER		
PSIG	POUNDS PER SQUARE INCH GAUGE	ZC	ZONE CONTROLLER		
RA	RETURN AIR				
RLF	RELIEF AIR				
RPM	REVOLUTIONS PER MINUTE				
SA	SUPPLY AIR				
SCH	SCHEDULE				
SP	STATIC PRESSURE				
TA	TRANSFER AIR				
TC	TEMPERATURE CONTROL				
TSP	TOTAL STATIC PRESSURE				
V	VOLTS				
VAV	VARIABLE AIR VOLUME				
WB	WET BULB				
WC	WATER COLUMN				
WG	WATER GAUGE				
X	EXISTING				

CONTROLS DEVICE LEGEND

CONTROLS ABBREVIATION MATRIX

LETTER	FIRST POSITION	LETTER	FOLLOWING POSITIONS
A [AA]	ADVANCED [APPLICATION]	A	ALARM/AUTO
B		B	
C	CTRL/COMMAND/CARBON	C	CONTROL/COMMAND/CONTROLLER
D	DISCONNECT	D	DIFFERENTIAL/DETECTOR
E	VOLTAGE	E	ELEMENT
F	FLOW	F	
G	GAGING	G	GLASS
H[HU]	HAND [HUMIDIFIER]	H	HIGH
I	CURRENT	I	INDICATOR/INTENSITY
J	POWER	J	
K	TIME	K	
L	LEVEL	L	LOW
M	MOISTURE	M	MIDDLE
N		N	
O [OCC]	OXYGEN [OCCUPANCY]	O [02]	MONOXIDE/OFF [DIOXIDE]
P	PRESSURE (OR VAC.)	P	POINT
Q	QUANTITY	Q	
R		R	RECORDER
S	SPEED/SMOKE	S[SP]	SENSOR/SWITCH/SPECIFIC[SETPOINT]
T	TEMPERATURE	T	TRANSMITTER
U[UV]	UNIT[ULTRAVIOLET]	U	
V	VIBRATION	V	VALVE/DAMPER
W	WEIGHT/FORCE	W	WELL/WARNING
X	USER-DEFINED	X	
Y	EVENT OR STATE	Y	RELAY/CONVERTER
Z	POSITION	Z	DRIVE/ACTUATE

CONTROLS DEVICE TAGGING



MECHANICAL CONTROLS SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
MECHANICAL EQUIPMENT		PROCESS LINES	
	HUMIDIFIER		PROCESS FLOW (ANY MEDIUM)
			SIGNAL CONNECTION PATHWAY
			PNEUMATIC PATHWAY
	FAN/PUMP	VALVES	
	FAN FILTER UNIT		2-WAY VALVE
			3-WAY VALVE
	VENTURI VALVE		ISOLATION VALVE
			FLOAT VALVE
EHC	ELECTRIC HEATING COIL	ACTUATOR POSITION	
XXX	OTHER DUCT DEVICE (GEX, HEX, SAV, AFM, UV, ETC.)	M NO	NORMALLY OPEN
		M NC	NORMALLY CLOSED
XX	COIL (CC, EC, HC, PHC, HGRC, OR RHC)	M FIP	FAIL IN PLACE (LAST COMMANDED POSITION)
	PARALLEL BLADE DAMPER	M FO	FAILED OPEN
	OPPOSED BLADE DAMPER	M FC	FAILED CLOSED
XXX XXX	MISCELLANEOUS DEVICE	CONTROL DEVICES	
		XX ##	DISCRETE INSTRUMENTS (I.E.: SENSORS, CONTROLLERS, RECORDERS ETC.)
	FILTER	CONTROLS SHEET SYMBOLS	
		1	KEYED NOTE

MECHANICAL CONTROLS DEFINITIONS

TERM	DEFINITION
ENABLE	ALLOW AN OPERATION TO START.
ACTIVATE	REQUIRE AN OPERATION TO START.
DEACTIVATE	REQUIRE AN OPERATION TO STOP.
100%	MAXIMUM COMMAND OR FULL OPEN.
0%	MINIMUM COMMAND OR FULL CLOSED.
DISABLE	PREVENT AN OPERATION FROM STARTING.
PROVE	COMMAND EQUALS STATUS.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
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MECHANICAL CONTROLS LEGEND INDEX AND NOTES

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Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

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DESIGNED BY: JOHNSTON

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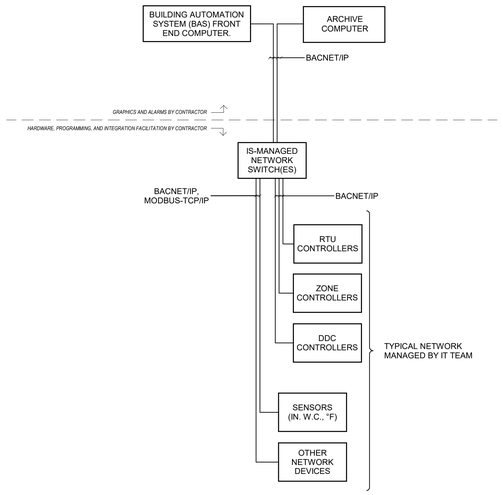

1 NETWORK ARCHITECTURE
NTS

PROGRAM REQUIREMENTS:

1. UNLESS INDICATED OTHERWISE, ALL SETPOINTS, TIME INTERVALS, AND LIMITS SHALL BE FIELD ADJUSTABLE EITHER AT THE LOCAL SENSOR OR VIA WORKSTATION VARIABLES.
2. CONTROLS CONTRACTOR SHALL VERIFY SETPOINTS, TIME INTERVALS, AND LIMITS BASED ON ACTUAL FIELD CONDITIONS. ALL SETPOINTS, TIME INTERVALS, AND LIMITS SHALL BE OPTIMIZED TO ACHIEVE STABLE SYSTEM OPERATION, PREVENT DAMAGE TO EQUIPMENT, MINIMIZE MAINTENANCE REQUIREMENTS, AND ELIMINATE NUISANCE ALARMS (SUCH AS PREMATURE FILTER LOADING, FALSE TRIPPING OF FREEZESTAT AND OTHER SIMILAR CONDITIONS).
3. UNLESS OTHERWISE INDICATED, CONTROL LOOPS SHALL BE ENABLED AND DISABLED BASED ON THE STATUS OF THE SYSTEM BEING CONTROLLED TO PREVENT WIND-UP.
4. THE TERM "PROVEN" (I.E. "PROVEN ON" / "PROVEN OFF") SHALL MEAN THAT THE EQUIPMENT'S DISCRETE INPUT STATUS POINT MATCHES THE STATE SET BY THE EQUIPMENT'S DISCRETE OUTPUT COMMAND POINT.
5. VALUES FOR ALL POINTS, INCLUDING REAL (HARDWARE) POINTS USED IN CONTROL SEQUENCES SHALL BE CAPABLE OF BEING OVERRIDDEN BY THE USER (E.G., FOR TESTING AND COMMISSIONING). IF HARDWARE DESIGN PREVENTS THIS FOR HARDWARE POINTS, THEY SHALL BE EQUATED TO A SOFTWARE POINT AND THE SOFTWARE POINT SHALL BE USED IN ALL SEQUENCES. EXCEPTION: NOT REQUIRED FOR ASC HARDWARE POINTS.
6. WHERE ZONE DATA (SUCH AS DAMPER OR VALVE COMMAND, CONTROL LOOP SIGNAL, ETC.) IS USED FOR RESET OF THE RTU SYSTEM SERVING THE ZONE, THE ZONE TAG (NAME) SHALL BE RECORDED FOR THE ZONE THAT IS FURTHEST FROM ITS TEMPERATURE SETPOINT. THIS DATA SHALL BE AVAILABLE FOR REPORTS SO THAT THE ZONES THAT ARE UNDERSIZED OR OTHERWISE DRIVING THE SYSTEM CAN BE IDENTIFIED FOR REMEDIATION IF REQUIRED.
7. CONTROLLING DISTRIBUTION (AIR OR WATER) PRESSURE TRANSMITTERS ARE TO BE DOCUMENTED ON BAS GRAPHICS.
8. ALL ANALOG CONTROL VALUES (CONTROL VALVES, CONTROL DAMPERS, VFDS, ECMS, ETC.), SHALL DISPLAY THEIR PHYSICAL RANGE, I.E. 0-10V.

VARIABLE FREQUENCY DRIVE (VFD) HAND-OFF-AUTO (H-O-A) SWITCH OPERATIONS:

EACH VARIABLE FREQUENCY DRIVE (VFD) SHALL BE INTEGRATED TO BUILDING AUTOMATION SYSTEM (BAS) VIA COMMUNICATION INTERFACE TO ALLOW ALL INFORMATION AVAILABLE FROM VFD PANEL TO BE VIEWED AND ALL SETTINGS AND ADJUSTMENTS TO BE MADE THROUGH BAS. COORDINATE COMMUNICATION INTERFACE REQUIREMENTS WITH VFD MANUFACTURER. INITIALLY, BAS SHALL BE PROGRAMMED TO POLL VFD FOR THE FOLLOWING INFORMATION:

- VFD FAULT
- MOTOR SPEED FEEDBACK
- MOTOR AMPS
- MOTOR POWER DEMAND (KW)
- MOTOR POWER CONSUMPTION (KWH)
- HAND-OFF-AUTO (H-O-A) SWITCH POSITION

1. UNLESS OTHERWISE NOTED, THE VFD SHALL BE PROGRAMMED TO ACCELERATE/DECELERATE FULL SCALE OVER 60 SECOND
2. ALL SAFETY DEVICES SUCH AS, FREEZESTAT, HIGH STATIC PRESSURE SAFETY SWITCHES, LOW STATIC SAFETY SWITCHES, SMOKE DETECTORS, ETC. SHALL BE HARDWIRED IN SERIES WITH SAFETY CIRCUITS ON VFDS AND SHALL STOP WHEN SAFETY DEVICE IS TRIPPED. SAFETY CIRCUIT SHALL BE FUNCTIONAL ON DRIVES WITH OR WITHOUT BYPASS CONTACTORS AND SHALL BE FUNCTIONAL IN BOTH VFD AND BYPASS MODES.
3. FOR FANS WITH ACTUATED ISOLATION DAMPERS:
   - FIRST THE BAS SHALL ENERGIZE THE FAN VFD.
   - SECOND, THE VFD SHALL COMMAND THE FAN ISOLATION DAMPER OPEN VIA HARDWIRE CONTROL (VFD CONFIGURED BY THE MECHANICAL CONTRACTOR).
   - THIRD, ONCE THE DAMPER IS PROVEN NOT CLOSED BY THE CLOSED POSITION END SWITCH, THE VFD RUN PERMISSIVE SHALL ALLOW THE VFD TO RAMP FAN PAST MINIMUM SPEED.
   - WHENEVER A FAN INLET ISOLATION DAMPER DOES NOT PROVE OPEN VIA OPEN POSITION END SWITCH OR THE FAN STATUS DOES NOT PROVE ON WITHIN 60 SECONDS OF OPEN COMMAND, THE DAMPER SHALL CLOSE, THE FAN SHALL FAIL, AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS. THE FAILED FAN SHALL BE LOCKED OUT AND REMAIN LOCKED OUT UNTIL MANUALLY RESET THROUGH THE BAS.
   - WHEN ANY EXHAUST FAN IS PROVEN OPERATIONAL AS DETECTED BY THE VFD STATUS INPUT BYPASS DAMPERS SHALL BE RELEASED TO CONTROL.
4. FOR AIR SYSTEMS, UPON INDICATION OF FAN H-O-A SWITCH IN HAND POSITION, RESPECTIVE OUTLET SMOKE/ISOLATION DAMPER(S) SHALL OPEN AND PROVE OPEN BEFORE STARTING.
   - WHEN H-O-A SWITCH IS IN ANY POSITION OTHER THAN AUTO, AN ALARM SHALL BE ANNUNCIATED AT THE BAS.
   - ALL SAFETY DEVICES SHALL BE FUNCTIONAL IN AUTO AND HAND MODES OF OPERATION.
5. ON A FAILURE OF THE VFD AS DEFINED BY AN OUTPUT FROM THE VFD, AN ALARM SHALL BE GENERATED AT THE BAS.

FIRE ALARM / FIRE PROTECTION EQUIPMENT:

1. DUCT MOUNTED SMOKE DETECTORS WILL BE FURNISHED, INSTALLED, AND WIRED BY ELECTRICAL CONTRACTOR.
2. SMOKE DAMPERS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
3. REFER TO AIR HANDLING UNIT CONTROL SEQUENCES FOR RESPONSES TO SMOKE DETECTED IN THE UNIT DISCHARGE DUCT.

TRENDING:

DURING BUILDING COMMISSIONING, COORDINATE WITH COMMISSIONING AGENT AND PROVIDE MORE SPECIFIC TRENDING REQUIREMENTS TO SUPPORT SYSTEM PERFORMANCE VERIFICATION, DEMONSTRATION OF PROPER SYSTEM OPERATION AND TROUBLESHOOTING AS REQUIRED PER COMMISSIONING SPECIFICATIONS. TRENDING OBJECTS SETUP AT THE FIELD LEVEL CONTROLLERS SHALL BE COORDINATED SUCH THAT THE MEMORY (DURATION OF STORED DATA) AND PROCESSING (INTERVAL AND CHANGE OF VALUE) POWER REQUIRED DOES NOT IMPEDE ON THE LONG-TERM OPERATION OF THE DEVICE. LONG TERM TRENDING STORAGE SHALL BE COORDINATED WITH THE MASTER SYSTEMS INTEGRATOR (MSI) AT OPTIMIZATION SUPERVISORY AND GRAPHICS SUPERVISORY LAYER.

SHEET NOTES

1. BAS CONTRACTOR SHALL PROVIDE ANY ADDITIONAL POWER FOR CONTROL SYSTEM, IF REQUIRED WITHOUT ADDITIONAL CHARGE TO OWNER.
2. NOT ALL DEVICES AND/ OR CONTROLLERS ARE SHOWN.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
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PROJECT NO: 24-0035-00
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NETWORK ARCHITECTURE

M7.02

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License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

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OFFICE/ SALLY PORT EXHAUST FAN POINTS LIST

DEVICE	ID	Description	LOCAL CONTROLLER AI	AO	DI	DO	VP	REMARKS
INT	01	EXHAUST FAN MANUFACTURER'S CONTROLLER - BACNET INTEGRATION					R	
CY	01	EXHAUST FAN - START/STOP				X		ALARM CONTROL POINT WHEN MISMATCH FROM COMMAND FOR 150 SECONDS
IS	01	EXHAUST FAN - STATUS			X			ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
PDT	01	EXHAUST FAN DUCT STATIC PRESSURE	X					
PDT	02	EXHAUST FAN STATUS DIFFERENTIAL PRESSURE	X					ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
ZS	01	EXHAUST FAN ISOLATION DAMPER ENDSWITCH POSITION			X	X		
FCV	01	EXHAUST FAN ISOLATION DAMPER ENDSWITCH COMMAND				X		

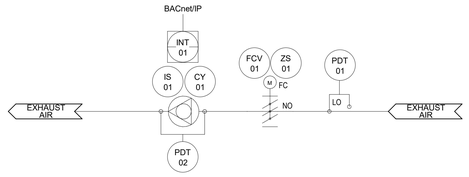
TOILET EXHAUST FAN - CONTROL SEQUENCE

TYPICAL TOILET EXHAUST FAN OPERATION

1. FANS WILL BE INTERLOCKED WITH THE ASSOCIATED ROOF TOP UNIT SO THAT THE EXHAUST FAN WILL TURN ON WHEN THE ASSOCIATED RTU IS TURNED ON AND THE EXHAUST FAN WILL TURN OFF WHEN THE ASSOCIATED RTU IS TURNED OFF. THE INTERLOCKS ARE AS FOLLOWS:
   A. EF-3: RTU-2
   B. EF-4: RTU-2
2. FANS MAY BE STARTED AND STOPPED THROUGH THE BAS.
3. A DUCT STATIC PRESSURE SENSOR SHALL BE INSTALLED TO MODULATE THE FAN SPEED AND FOR TESTING AND BALANCING PURPOSES.

ALARM AND MONITOR

1. THE BAS USES THE CURRENT SWITCH AND DIFFERENTIAL PRESSURE SWITCH (ACROSS THE FAN) TO CONFIRM THE EXHAUST FAN STATUS AND GENERATES AN ALARM IF STATUS DIFFERS FROM THE START/STOP COMMAND.
2. THE BAS SHALL MONITOR THE EXHAUST FAN STATUS AND THE ASSOCIATED RTU STATUS. IF THERE IS A MISMATCH, AN ALARM WILL BE GENERATED AT THE BAS.



1 TOILET EXHAUST CONTROL DIAGRAM
NTS

LAB EXHAUST FANS POINTS LIST

DEVICE	ID	Description	LOCAL CONTROLLER AI	AO	DI	DO	VP	REMARKS
PDT	01	DUCT STATIC PRESSURE 1	X					
INT	01	EF-1 [VFD] - BACNET INTEGRATION					R	
YY	01	EF-1 [VFD] - GENERAL ALARM			X			
SC	01	EF-1 [VFD] - SPEED COMMAND		X				
CY	01	EF-1 [VFD] - START/STOP				X		ALARM CONTROL POINT WHEN MISMATCH FROM COMMAND FOR 150 SECONDS
IS	01	EF-1 [VFD] - STATUS			X			ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
FCV	01	EF-1 ISOLATION DAMPER ENDSWITCH: CLOSED			X			
ZS	01	EF-1 ISOLATION DAMPER ENDSWITCH: OPEN			X			
LSP	01	EF-1 LOW STATIC PRESSURE SWITCH			X			
VS	01	EF-1 VIBRATION SWITCH			X			
PDT	02	DUCT STATIC PRESSURE 2	X					
INT	02	EF-2 [VFD] - BACNET INTEGRATION					R	
YY	02	EF-2 [VFD] - GENERAL ALARM			X			
SC	02	EF-2 [VFD] - SPEED COMMAND		X				
CY	02	EF-2 [VFD] - START/STOP				X		ALARM CONTROL POINT WHEN MISMATCH FROM COMMAND FOR 150 SECONDS
IS	02	EF-2 [VFD] - STATUS			X			ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
FCV	02	EF-2 ISOLATION DAMPER ENDSWITCH: CLOSED			X			
ZS	02	EF-2 ISOLATION DAMPER ENDSWITCH: OPEN			X			
LSP	02	EF-2 LOW STATIC PRESSURE SWITCH			X			
VS	02	EF-2 VIBRATION SWITCH			X			
FCV	03	BYPASS AIR ISOLATION DAMPER ENDSWITCH: COMMAND			X			
ZS	03	BYPASS AIR ISOLATION DAMPER ENDSWITCH: POSITION	X					
PDT	03	EF-1 STATUS STATIC PRESSURE	X					ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
PDT	04	EF- STATUS STATIC PRESSURE	X					ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND

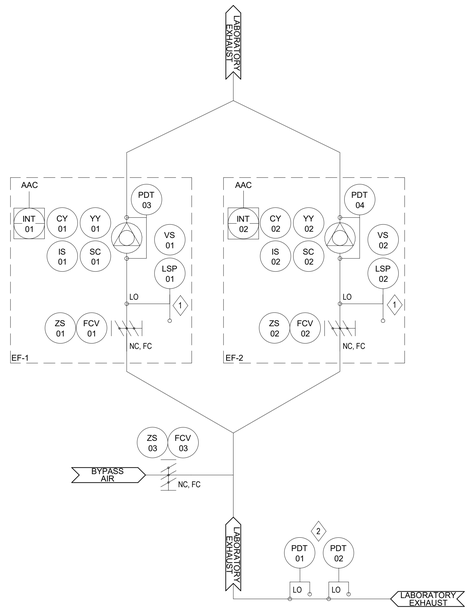
LAB EXHAUST FAN - CONTROL SEQUENCE

GENERAL:

A. THE EXHAUST SYSTEM IS MEANT TO OPERATE CONTINOUSLY. THE FANS SHALL OPERATE IN A LEAD/LAG MODE AND SHALL BE BASED ON RUN TIME. ONLY ONE FAN SHALL OPERATE AT A TIME AND THE SYSTEM SHALL BE SETUP SO THAT A CHANGE OVER DOES NOT OCCUR DURING AN OCCUPIED MODE.
B. THE BAS SHALL START AND STOP ALL FANS. SYSTEM CONSIST OF TWO 100% REDUNDANT EXHAUST FAN.
C. THE EXHAUST SYSTEM SHALL BE ACTIVATED, DEACTIVATED, MONITORED AND CONTROLLED THROUGH AN APPLICATION SPECIFIC CONTROLLER.

NORMAL OPERATION:

A. WHEN THE SYSTEM IS STARTED, THE CONTROLLER SHALL OPEN THE ISOLATION DAMPER AND START THE FAN ONCE THE DAMPER HAS PROVED OPEN VIA AN END SWITCH. IF THE FAN FAILS TO START, AS INDICATED BY THE DIFFERENTIAL PRESSURE SWITCH ACROSS THE FAN, THE FAILED FAN ISOLATION DAMPER SHALL CLOSE, AND AN ALARM SHALL BE GENERATED AND SENT TO THE HVAC CONTROL SYSTEM AND START SIGNAL SHALL BE SENT TO THE STANDBY FAN.
B. ON WEEKLY BASIS (ADJUSTABLE) THE BAS SHALL OPEN THE STANDBY FAN DAMPER AND START THE STANDBY FAN. THE LEAD FAN DAMPER SHALL CLOSE AND THE LEAD FAN SHALL BE DE-ENERGIZED. THE BAS SHALL CHANGE FANS ON A WEEKLY BASIS TO EQUALIZE RUN TIME FOR EACH FAN.
C. BYPASS DAMPER. THE BYPASS DAMPER SHALL MODULATE TO MAINTAIN CONSTANT EXHAUST AIR DISCHARGE VELOCITY. BYPASS DAMPER SHALL BE CONTROLLED BY CONTROLS CONTRACTOR VIA PRESSURE SENSOR INSTALLED IN DUCTWORK UPSTREAM EXHAUST FAN(S). PRESSURE SENSOR(S) SHALL BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR.
D. UPON RECEIVING A STOP SIGNAL, THE FAN SHALL BE DEACTIVATED AND THE ASSOCIATED ISOLATION DAMPER SHALL BE CLOSED.
E. UPON A LOSS OF CONTROL POWER TO THE CONTROL SYSTEM, THE UNIT SHALL CONTINUE TO OPERATE AND ALL CONTROL POINTS SHALL REMAIN IN THEIR CURRENT POSITIONS.



2 LAB EXHUAST WITH REDUNDANT FAN CONTROL DIAGRAM
NTS

INSTALLATION NOTES

1. POINT SUMMARY STATES POINTS REQUIRED AND DOES NOT EXCLUDE POINTS LISTED/SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
2. BAS POINT NAMES AND GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
3. A COPY OF THE FINAL AS-BUILT CONTROL TERMINATION DRAWING, AND RELATED RISER DIAGRAM LAYOUT SHALL RESIDE INSIDE OF ALL BUILDING CONTROLLERS PANEL ENCLOSURES.
4. AIRFLOW STATIONS INSTALLED BY CONTRACTOR SHALL COMPLY WITH MANUFACTURER STRAIGHT DUCT DIAMETERS UPSTREAM TO PROVIDE PROPER FLOW SENSING.
5. PROVIDE MATCHED PAIR TEMPERATURE SENSORS AS REQUIRED BY DIV 25 SPECS.
6. ALL PHYSICAL POINTS FOR THE SYSTEM AND ASSOCIATED EQUIPMENT SHALL BE WIRED TO A SINGLE BAS CONTROLLER.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL CONTROLS

M7.03

DRG REFERENCE

95% CONSTRUCTION DOCUMENTS PACKAGE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

2/28/2025 11:07:15 AM

SERIES FAN POWERED BOX POINTS LIST

DEVICE	ID	DESCRIPTION	LOCAL CONTROLLER					INTEGRATION	
			AI	AO	DI	DO	VP	TYPE	TREND
TT	01	ZONE TEMPERATURE TRANSMITTER	X					NUMERIC	I15
TS	01	ZONE TEMPERATURE SENSOR	X					NUMERIC	I15
MT	01	ZONE HUMIDITY	X					NUMERIC	I15
OCC	01	ZONE OCCUPANCY SENSOR			X			NUMERIC	COV
FT	01	PRIMARY AIRFLOW	X					NUMERIC	I5
FCV	01	PRIMARY AIR DAMPER COMMAND		X				NUMERIC	I5
TT	02	SUPPLY AIR TEMPERATURE TRANSMITTER	X					NUMERIC	I5
TS	02	SUPPLY AIR TEMPERATURE SENSOR	X					NUMERIC	I5
CY	01	SUPPLY FAN START/STOP COMMAND				X		BOOLEAN	COV
IS	01	SUPPLY FAN STATUS			X			BOOLEAN	COV
CY	02	ELECTRIC PREHEAT COMMAND		X				NUMERIC	I5
IS	02	ELECTRIC PREHEAT STATUS	X					NUMERIC	I5
		COMFORT / OVERRIDE PUSH BUTTON			X		R/W	BOOLEAN	COV

NOTES:
1. GRAPICS POINTS ARE INTENDED TO BE ON LOCAL COMPUTER OR TOUCH SCREEN AND MAIN COMPUTER IF DESIRED
2. CONTRACTOR TO PROVIDE OWNER A LIST OF POINTS AVALIABLE IN THE EXHAUST FAN FOR MAPPING INTO THE CONTROL SYSTEM. THE OWNER WILL DECIDE WHICH ONES WILL BE MAPPED.
3. TREND - I1 WOULD BE A TREND EVERY MINUTE. I5 WOULD BE A TREAND EVERY 5 MINUTES. COV IS CHANGE OF VALUE TREND. OWNER WILL PROVIDE TREND TIMES FOR ANALOG POINTS

SERIES FAN POWERED TERMINAL UNIT (CONSTANT VOLUME) SEQUENCE OF OPERATION

SEQUENCE OF OPERATION:

A. THE UNIT SHALL BE CONTROLLED BY A FACTORY MOUNTED TERMINAL EQUIPMENT CONTROLLER (TEC).
B. A SPACE TEMPERATURE SENSOR THROUGH THE DDC SYSTEM SHALL MODULATE THE NORMALLY CLOSED VAV DAMPER ACTUATOR TO MAINTAIN THE DESIRED SPACE TEMPERATURE, INDEPENDENT OF DUCT STATIC PRESSURE.
C. PRIOR TO STARTING THE CENTRAL AIR HANDLING UNIT, THE TERMINAL BOX DAMPERS SHALL BE OPENED, AND THE FAN SHALL BE STARTED.
D. THE FAN WILL OPERATE CONTINUOUSLY. WITH THE SPACE TEMPERATURE ABOVE SETPOINT, THE PRIMARY AIR DAMPER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT. UPON A DECREASE IN THE NEED OF COOLING THE PRIMARY AIR DAMPER SHALL MODULATE FROM ITS MAXIMUM POSITION TO ITS MINIMUM POSITION AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT. UPON A FURTHER DECREASE IN THE NEED FOR COOLING THE REHEAT COIL CONTROL VALVE SHALL BE PROPORTIONALLY MODULATED OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT. UPON AN INCREASE IN THE NEED FOR COOLING, THE TEC SHALL PROPORTIONALLY MODULATE THE REHEAT COIL CONTROL VALVE CLOSE. THROUGHOUT THE SEQUENCE THE FAN SHALL REMAIN ENERGIZED TO PROVIDE CONSTANT FLOW IN INDUCED PLENUM AIR.
E. AN OCCUPANCY SENSOR RELAY SHALL PROVIDE SIGNAL TO THE DDC SYSTEM INDICATING THE STATUS OF THE AREA SERVED BY THE TERMINAL UNIT. WHEN ALL THE SPACES SERVED BY THE TERMINAL UNIT ARE IN UNOCCUPIED MODE, THE SPACE TEMPERATURE SETPOINT SHALL BE SET TO UNOCCUPIED SETPOINTS AS INDICATED ON UNOCCUPIED SETTING.
F. WHEN ANY OF THE SPACES SERVED BY THE TERMINAL UNIT SHIFT FROM UNOCCUPIED TO OCCUPIED MODE, THE SPACE TEMPERATURE SETPOINT SHALL BE RESET TO OCCUPIED SETTING.
G. THE OCCUPIED MODE TEMPERATURE SETPOINT SHALL BE 75°F (ADJUSTABLE) FOR COOLING, AND 70°F (ADJUSTABLE) FOR HEATING.
H. UPON A LOSS OF CONTROL POWER TO THE CONTROL SYSTEM, THE UNIT SHALL CONTINUE TO OPERATE AND ALL CONTROL POINTS SHALL REMAIN IN THEIR CURRENT POSITIONS.
I. RESET STATIC PRESSURE SETPOINT BASED ON ZONES REQUIRING THE MOST PRESSURE, PER IECC 2018.

UNOCCUPIED MODE:

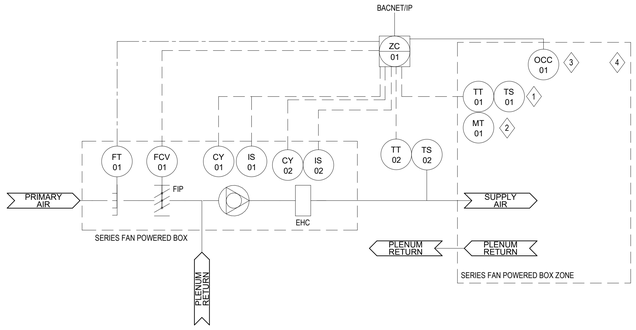
A. WHEN THE SPACE SERVED BY THE TERMINAL UNIT IS IN UNOCCUPIED STATE (AS INDICATED BY OCCUPANCY SENOR OR BAS SCHEDULE) THE TERMINAL UNIT SETPOINTS SHALL BE SET TO UNOCCUPIED SETTINGS.
B. FOR ROOMS THAT ARE SERVED BY TWO TERMINAL UNITS, ONLY ONE TERMINAL UNIT SHALL BE ENERGIZED IN UNOCCUPIED MODE. THE DE-ENERGIZED TERMINAL PRIMARY AIR DAMPER SHALL BE COMMANDED CLOSED AND THE HEATING HOT WATER VALVE SHALL BE LOCKED IN THE CLOSED POSITION. THE DDC SHALL ALTERNATE BETWEEN THE TWO TERMINAL UNITS TO EQUALIZE RUN TIME.
C. UPON ROOM TEMPERATURE DROPPING BELOW 60°F (ADJUSTABLE) THE TERMINAL UNIT HEATING CONTROL VALVE SHALL BE ALLOWED TO MODULATE TO MAINTAIN UNOCCUPIED TEMPERATURE SETTINGS.

UNOCCUPIED SETTING:

A. TERMINAL UNIT PRIMARY AIR DAMPER SHALL BE COMMANDED CLOSED.
B. THE UNOCCUPIED MODE TEMPERATURE SETPOINT FOR COOLING SHALL BE 78°F (ADJUSTABLE) AND FOR HEATING SHALL BE 68° F. (ADJUSTABLE).

THE FOLLOWING SHALL BE INCLUDED AND SHOWN IN THE GRAPHIC PACKAGE:

1. SUPPLY AIR FAN STATUS.
2. FAN AIR START/STOP COMMAND.
3. DISCHARGE AIR TEMPERATURE.
4. HEATING COIL VALVE.
5. SPACE TEMPERATURE.
6. PRIMARY AIR DAMPER ACTUATOR.
7. PRIMARY AIR FLOW (CFM).
8. SPACE RELATIVE HUMIDITY (WHERE RH SENSOR IS PROVIDED).
9. OCCUPANCY STATUS



1 SERIES FAN POWERED BOX CONTROL DIAGRAM
NTS

MONITORING OF BODY COOLER:

- THE BAS SHALL MONITOR AN OUT OF TEMPERATURE RANGE ALARM THROUGH A DRY CONTACT (ADJ. HIGH/LOW LIMIT) WHICH SHALL CLOSE WHEN THE LIMIT IS EXCEEDED. THE DRY CONTACT(S) SHALL BE PROVIDED BY THE SPACE TEMPERATURE SENSOR.

MONITORING OF TOXICOLOGY LAB FREEZERS AND COOLER:

- THE BAS SHALL MONITOR AN OUT OF TEMPERATURE RANGE ALARM THROUGH A DRY CONTACT (ADJ. HIGH/LOW LIMIT) WHICH SHALL CLOSE WHEN THE LIMIT IS EXCEEDED. THE DRY CONTACT(S) SHALL BE PROVIDED BY THE LAB FREEZER CONTROLLER.

MONITORING OF THE DESICCANT DRYERS:

- THE BAS SHALL MONITOR A DRY ALARM CONTACT PROVIDED BY THE DESICCANT DRYER CONTROLLER.

FILTER DIFFERENTIAL PRESSURE SENSORS:

- DIFFERENTIAL PRESSURE SENSOR SHALL BE PROVIDED ACROSS THE FILTER SECTION AND SHALL SEND AN ALARM SIGNAL TO THE DDC SYSTEM AT A PRESSURE DROP EQUAL TO MANUFACTURER'S SUGGESTED MAXIMUM PRESSURE DROP. INITIAL SETPOINT TO BE 0.5" W.G.

2 LAB EQUIPMENT MONITORING AND ALARM POINTS
NTS

SEQUENCE OF OPERATION:

FCU-8, FCU-9, FCU-10, FCU-11, CU-7 AND CU-8 SHALL BE INTEGRATED WITH AND CONTROLLED BY THE BAS THROUGH THE INTELLIGENT TOUCH MANAGER WITH BACNET/IP GATEWAY.

OCCUPANCY MODE:

FCU-8, FCU-9, FCU-10, FCU-11 HAVE 3 MODES: UNOCCUPIED, OCCUPIED AND STANDBY. INDIVIDUAL TEMPERATURE SETPOIINTS CAN BE ENTERED FOR UNOCCUPIED AND OCCUPIED MODES.

OPERATION MODE:

FCU-8, FCU-9, FCU-10, FCU-11, CU-7 AND CU-8 CAN BE SET TO 4 MODES: HEAT, COOL, FAN AND DRY.

1. HEATING AND COOLING MODE:
   - FCU-8, FCU-9, FCU-10, FCU-11, CU-7 AND CU-8 SHALL OPERATE THROUGH THE MANUFACTURER'S STANDARD CONTROL SYSTEM TO ACHIEVE THE DESIRED SETPOINT TEMPERATURE VIA THE INTELLIGENT TOUCH MANAGER.
2. DRY MODE:
   - CU-8, FCU-9, FCU-10 AND FCU-11 SHALL BE PROVIDED WITH A "DRY MODE" SWITCH TO ENABLE THE UNIT TO BE MANUALLY PLACED IN A DE-HUMIDIFICATION MODE OF OPERATION.
3. FAN MODE:
   - ONLY THE BLOWER FANS OF FCU-8, FCU-9, FCU-10 AND FCU-11 ARE ON WITH NO DRYING, HEATING OR COOLING ACTIVE.

ALARMS:

THE FOLLOWING SHALL INITIATE AN ALARM TO THE MAIN CONTROL MONITORING SYSTEM:
1. THE INDOOR FAN COIL UNIT IS NOT OPERATING NORMALLY.
2. THE OUTDOOR CONDENSING UNIT IS NOT OPERATING NORMALLY.

3 MINI-SPLIT SYSTEM SEQUENCE OF OPERATION (MS-1 & MS-2)
NTS

INSTALLATION NOTES

1. POINT SUMMARY STATES POINTS REQUIRED AND DOES NOT EXCLUDE POINTS LISTED/SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
2. BAS POINT NAMES AND GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
3. A COPY OF THE FINAL AS-BUILT CONTROL TERMINATION DRAWING, AND RELATED RISER DIAGRAM LAYOUT SHALL RESIDE INSIDE OF ALL BUILDING CONTROLLERS PANEL ENCLOSURES.
4. UNIT INSTALLED BY MECHANICAL CONTRACTOR WITH 3 TO 5 STRAIGHT DUCT DIAMETERS UPSTREAM OF PRIMARY AIR DAMPER TO PROVIDE PROPER FLOW SENSING.
5. LOCATE UNIT AS SHOWN ON FLOOR PLANS/CONTRACT DOCUMENTS

KEYED NOTES

1. REFERENCE FLOOR PLANS FOR SENSOR LOCATION.
2. REFERENCE MECHANICAL SCHEDULES FOR HUMIDITY SENSOR APPLICATION.
3. REFERENCE MECHANICAL SCHEDULES FOR OCCUPANCY SENSOR APPLICATION. COORDINATE HVAC ZONE AND LIGHTING CONTROL ZONES WITH ELECTRICAL CONTRACTOR. HVAC INPUT SHOULD BE DRY CONTACT FROM DIVISION 26 PROVIDED OCCUPANCY SENSOR.
4. REFERENCE MECHANICAL SCHEDULES FOR COMFORT BUTTON APPLICATION.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL CONTROLS

M7.04

DRG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

2/28/2025 11:07:16 AM

ROOF TOP UNIT POINTS LIST (RTU-2)

DEVICE	ID	DESCRIPTION	LOCAL CONTROLLER					INTEGRATION	
			AI	AO	DI	DO	VP	TYPE	TREND
	CY	01 SUPPLY FAN (ECM) - START/STOP				X		BOOLEAN	COV
	TS	01 SUPPLY FAN (ECM) - STATUS			X			BOOLEAN	COV
	SC	01 SUPPLY FAN (ECM) - SPEED COMMAND		X				NUMERIC	I5
	YY	01 SUPPLY FAN (ECM) - GENERAL ALARM			X			BOOLEAN	COV
	VT	01 SUPPLY FAN (ECM)- VIBRATION TRANSMITTER			X			BOOLEAN	COV
HSP	02	SUPPLY FAN HIGH STATIC PRESSURE SWITCH			X			BOOLEAN	COV
HSP	01	SUPPLY FAN HIGH STATIC PRESSURE SWITCH			X			BOOLEAN	COV
LSP	01	SUPPLY FAN LOW STATIC PRESSURE SWITCH			X			BOOLEAN	COV
PDS	03	MANIFOLD SUPPLY AIR DUCT STATIC PRESSURE SENSOR	X					NUMERIC	I5
PDT	03	MANIFOLD SUPPLY AIR DUCT STATIC PRESSURE TRANSMITTER	X					NUMERIC	I5
	SD	01 SUPPLY AIR SMOKE DETECTOR			X			BOOLEAN	COV
PDS	01	35% PRE FILTER DIFFERENTIAL PRESSURE SENSOR	X					NUMERIC	I15
PDT	01	35% PRE FILTER DIFFERENTIAL PRESSURE TRANSMITTER	X					NUMERIC	I15
PDS	02	85% PREFILTER DIFFERENTIAL PRESSURE SENSOR	X					NUMERIC	I15
PDT	02	85% PREFILTER DIFFERENTIAL PRESSURE TRANSMITTER	X					NUMERIC	I15
TT	01	MIXED AIR TEMPERATURE TRANSMITTER	X					NUMERIC	I15
TS	01	MIXED AIR TEMPERATURE SENSOR	X					NUMERIC	I15
TT	02	COIL LEAVING AIR TEMPERATURE TRANSMITTER	X					NUMERIC	I15
TS	02	COIL LEAVING AIR TEMPERATURE SENSOR	X					NUMERIC	I15
TT	03	SUPPLY AIR TEMPERATURE TRANSMITTER	X					NUMERIC	I5
TS	03	SUPPLY AIR TEMPERATURE SENSOR	X					NUMERIC	I15
TS	04	RETURN AIR TEMPERATURE SENSOR	X					NUMERIC	I15
TT	05	OUTSIDE AIR TEMPERATURE TRANSMITTER	X					NUMERIC	I5
TS	05	OUTSIDE AIR TEMPERATURE SENSOR	X					NUMERIC	I15
TT	04	RETURN AIR TEMPERATURE TRANSMITTER	X					NUMERIC	I5
	SD	02 RETURN AIR SMOKE DETECTOR			X			BOOLEAN	COV
FCV	03	SUPPLY AIR ISOLATION DAMPER COMMAND				X		BOOLEAN	COV
	ZS	03 SUPPLY AIR ISOLATION DAMPER FEEDBACK			X			BOOLEAN	COV
FCV	01	OUTDOOR AIR DAMPER COMMAND				X		BOOLEAN	COV
FS	01	OUTDOOR AIR FLOW				X		BOOLEAN	COV
FS	02	RETURN AIR FLOW				X		BOOLEAN	COV
	ZS	01 OUTDOOR AIR DAMPER FEEDBACK			X			BOOLEAN	COV
FCV	02	RETURN AIR DAMPER COMMAND				X		BOOLEAN	COV
	ZS	02 RETURN AIR DAMPER FEEDBACK			X			BOOLEAN	COV
	IS	02 RELIEF FAN (ECM) - STATUS			X			BOOLEAN	COV
	SC	02 RELIEF FAN (ECM) - SPEED COMMAND		X				NUMERIC	I5
	CY	02 RELIEF FAN (ECM) - START/STOP				X		BOOLEAN	COV
	YY	02 RELIEF FAN (ECM) - GENERAL ALARM			X			BOOLEAN	COV
	ZS	04 RELIEF AIR ISOLATION DAMPER FEEDBACK			X			BOOLEAN	COV
FCV	04	RELIEF AIR ISOLATION DAMPER COMMAND				X		BOOLEAN	COV

NOTES:
1. GRAPICS POINTS ARE INTENDED TO BE ON LOCAL COMPUTER OR TOUCH SCREEN AND MAIN COMPUTER IF DESIRED
2. CONTRACTOR TO PROVIDE OWNER A LIST OF POINTS AVALIABLE IN THE EXHAUST FAN FOR MAPPING INTO THE CONTROL SYSTEM. THE OWNER WILL DECIDE WHICH ONES WILL BE MAPPED.
3. TREND - I1 WOULD BE A TREND EVERY MINUTE, I5 WOULD BE A TREND EVERY 5 MINUTES, I15 WOULD BE A TREND EVERY 15 MINUTES. COV IS CHANGE OF VALUE TREND. OWNER WILL PROVIDE TREND TIMES FOR ANALOG POINTS

AIR HANDLING UNITS SERVING OFFICE SPACES (RTU-2):

GENERAL:

1. AIR SYSTEM CONTROLLER SHALL HAVE EQUIPMENT AND SYSTEM LEVEL COMMISSIONING OVERRIDES TO INCLUDE BUT NOT LIMITED TO: ALL ADJUSTABLE SETPOINTS (BOTH LOCALLY HARD-CODED AND EFFECTIVE) AS WELL AS THE AIR SYSTEM'S ZONE: DAMPER COMMANDS, FAN SPEED COMMANDS, SETPOINTS, ETC.
2. TAB CONTRACTOR TO SET MINIMUM OUTSIDE AIRFLOWS AT VARIOUS RTU OPERATING MODES TO PREVENT INFILTRATION OF UNCONDITIONED OUTSIDE AIR.
3. THE BAS SHALL COMMAND THE ROOF TOP UNITS TO RUN ACCORDING TO A USER DEFINED OCCUPIED/UNOCCUPIED TIME SCHEDULE.

OPTIMAL START, STOP AND PRE-COOL MODE:

- OPTIMAL START: THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.
- OPTIMAL STOP: THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT. OUTSIDE AIR DAMPER SHALL REMAIN ENABLED TO PROVIDE MINIMUM VENTILATION.
- PRE-COOL MODE: DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OCCUPIED BYPASS:

THE BAS SHALL MONITOR THE STATUS OF THE ON AND CANCEL BUTTONS OF THE SPACE TEMPERATURE SENSORS. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

SUPPLY FAN SPEED CONTROL & DUCT STATIC PRESSURE SETPOINT RESET:

THE FAN SHALL RUN CONTINUOUSLY. THE SUPPLY SHALL BE CONTROLLED BY A STATIC PRESSURE SENSOR LOCATED 2/3 TO 3/4 OF THE WAY DOWN THE SUPPLY DUCTWORK. A PRESSURE TRANSMITTER SHALL SEND A SIGNAL TO THE ROOFTOP UNIT CONTROLLER WHICH SHALL MODULATE THE ELECTRICALLY COMMUTATED MOTOR (ECM) TO MAINTAIN AN ADJUSTABLE SYSTEM STATIC PRESSURE SETPOINT. WHEN THE ROOFTOP UNIT IS STARTED THE SUPPLY FAN ECM SHALL GRADUALLY INCREASE SPEED TO MAINTAIN THE SYSTEM STATIC PRESSURE. THE FAN SHALL BE ENABLED TO RUN AFTER THE FAN'S ASSOCIATED ISOLATION DAMPER IS PROVEN OPEN AND EXHAUST FANS ARE/IS OPERATING. MANUAL RESET HIGH-PRESSURE DUCT SENSOR SHALL SHUT DOWN THE UNIT IF THERE IS AN UNSAFE HIGH DISCHARGE STATIC PRESSURE. PROVIDE A CURRENT SENSOR FOR SUPPLY FAN. IN THE POWER FEED, TO BE MONITORED BY THE BAS INDICATING FAN STATUS. WHENEVER FAN FAILS TO OPERATE A SIGNAL (ALARM) SHALL BE SENT TO THE BAS. FANS SHALL BE ENABLED BY THE BAS TO SATISFY THE STATIC PRESSURE SETPOINT AS MEASURED BY THE STATIC PRESSURE SENSOR. THE BAS SHALL MONITOR ALL TERMINAL UNIT DAMPER POSITIONS AND RESET THE STATIC PRESSURE SETPOINT FOR THE ZONE REQUIRING THE MOST PRESSURE. IF MULTIPLE TERMINAL UNIT DAMPERS ARE OPEN FOR THE GIVEN STATIC PRESSURE SETPOINT THE STATIC PRESSURE WILL BE LOWERED (INCREMENTS OF 0.05 IN. W.C.) EVERY 15 MINUTES UNTIL ONLY ONE TERMINAL UNIT'S DAMPER IS FULLY OPEN. THE STATIC PRESSURE SHALL BE RESET TO THE DEFAULT SETPOINT EVERY WEEK.

SUPPLY AIR TEMPERATURE: COOLING

DURING A CALL FOR COOLING, THE DISCHARGE AIR TEMPERATURE SENSOR (TS-04) SHALL SEND A SIGNAL TO THE AIR HANDLER ASC TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F (ADJUSTABLE). MULTIPLE COMPRESSORS OF COOLING CAN BE CONFIGURED SUBJECT TO MINIMUM RUN TIMES, MINIMUM OFF TIMES, STAGING UP AND STAGING DOWN DELAYS. COOLING IS ENABLED WHEN THE OUTDOOR AIR TEMPERATURE RISES ABOVE THE COOLING SETPOINT. COOLING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE FALLS ONE DEADBAND BELOW THE COOLING SETPOINT. THE SETPOINT AND DEADBAND ARE USER ADJUSTABLE. ONCE IN THE COOLING MODE THE UNIT WILL MAINTAIN THE SUPPLY AIR TEMPERATURE AT THE SUPPLY AIR COOLING SETPOINT BY MODULATING A DIGITAL COMPRESSOR (1.5-5.0 VDC OPERATION). A COIL SUCTION PRESSURE SENSOR IS REQUIRED. IF ADDITIONAL COOLING IS REQUIRED, FIXED COMPRESSOR STAGES CAN BE STAGED ON WHILE THE COMPRESSOR CONTINUES TO MODULATE. TO STAGE UP THE EXTRA COMPRESSORS, THE SUPPLY TEMPERATURE NEEDS TO BE ABOVE THE STAGE UP SETPOINT AND THE COMPRESSOR NEEDS TO BE AT 100% FOR A PERIOD OF TIME EQUAL TO THE STAGE UP DELAY TO STAGE DOWN THE EXTRA COMPRESSORS, THE SUPPLY TEMPERATURE NEEDS TO BE BELOW THE STAGE DOWN SETPOINT AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 0% FOR A PERIOD OF TIME EQUAL TO THE STAGING DOWN DELAY. IN A CONFIGURATION THAT HAS TWO FIXED COMPRESSORS THE FIRST FIXED COMPRESSOR HAS THE SAME CAPACITY AS THE DIGITAL COMPRESSOR AND THE SECOND HAS DOUBLE THE CAPACITY OF THE DIGITAL COMPRESSOR. IN A CONFIGURATION WITH OTHER THAN 2 FIXED STAGES, THE COMPRESSOR CAPACITIES ARE EQUAL TO THE DIGITAL COMPRESSOR AND NORMAL STAGING WILL OCCUR. MECHANICAL COOLING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SETPOINT BY 1°F.

SUPPLY AIR TEMPERATURE RESET

THE RTU'S DISCHARGE AIR TEMPERATURE (DAT) IS CONTINUOUSLY MONITORED BY THE BAS VIA THE DISCHARGE AIR TEMPERATURE SENSOR (TS-03). THIS TEMPERATURE SHALL BE RESET BASED ON THE BUILDING LOADS AS FOLLOWS:
- WHEN AVERAGE SPACE TEMPERATURE IS ABOVE THE DAT SETPOINT (INDICATING LESS COOLING DEMAND), INCREASE THE DAT SETPOINT BY 25% OF THE DIFFERENCE BETWEEN THE AVERAGE SPACE TEMPERATURE AND THE DAT.
- WHEN AVERAGE SPACE TEMPERATURE IS BELOW THE DAT SETPOINT (INDICATING MORE COOLING DEMAND), DECREASE THE DAT SETPOINT BY 25% OF THE DIFFERENCE BETWEEN THE AVERAGE SPACE TEMPERATURE AND THE DAT.

TO AVOID EXCESSIVE OSCILLATION OF THE DAT SETPOINT, IMPLEMENT A DEADBAND OF ±2°F AROUND THE DAT SETPOINT. A MINIMUM TIME DELAY 10 MINUTES BETWEEN EACH ADJUSTMENT OF THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE IMPLEMENTED. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS OR PROVIDES INVALID DATA, REVERT TO A FAILSAFE DISCHARGE AIR TEMPERATURE SETPOINT (DEFAULT SETPOINT) AND GENERATE AN ALARM TO NOTIFY THE BUILDING OPERATOR.

DEHUMIDIFICATION:

DEHUMIDIFICATION IS ENABLED BASED ON AN OUTDOOR AIR DEWPOINT SETPOINT. THIS REQUIRES AN OUTDOOR HUMIDITY AND OUTDOOR TEMPERATURE SENSOR. ONCE IN DEHUMIDIFICATION, THE UNIT WILL MAINTAIN THE EVAPORATOR COIL SUCTION TEMPERATURE AT THE COIL SUCTION TEMPERATURE SETPOINT BY MODULATING DIGITAL COMPRESSOR (1.5-5.0 VDC OPERATION). A COIL SUCTION PRESSURE SENSOR IS REQUIRED AND IF ADDITIONAL DEHUMIDIFICATION IS REQUIRED, FIXED COMPRESSOR STAGES SHALL BE STAGED ON WHILE THE DIGITAL COMPRESSOR CONTINUES TO MODULATE. TO STAGE UP THE EXTRA COMPRESSORS, THE COIL TEMPERATURE NEEDS TO BE ABOVE THE STAGE UP SETPOINT AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 100% FOR A PERIOD OF TIME EQUAL TO THE STAGE UP DELAY TO STAGE DOWN THE EXTRA COMPRESSORS, THE COIL TEMPERATURE NEEDS TO BE BELOW THE STAGE DOWN SETPOINT AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 0% FOR A PERIOD OF TIME EQUAL TO THE STAGING DOWN DELAY. THE COMPRESSOR CAPACITIES ARE EQUAL TO THE DIGITAL COMPRESSOR AND NORMAL STAGING WILL OCCUR. DEHUMIDIFICATION CAN BE SELECTED AS A PRIORITY MODE, OTHERWISE IT IS ONLY AVAILABLE WHEN HEATING AND COOLING DEMANDS ARE SATISFIED.

OUTDOOR AIRFLOW CONTROL:

1. THE AIR SYSTEM CONTROLLER SHALL MODULATE THE OUTSIDE AIR DAMPER BASED ON THE RETURN AIR, ALWAYS ALLOWING FOR THE MINIMUM SCHEDULED OUTDOOR AIRFLOW TO BE MAINTAINED.
2. IF A ZONE SERVED BY THE AIR HANDLING UNIT IS UNOCCUPIED DURING THE UNIT'S OCCUPIED OPERATION, THE MINIMUM OUTSIDE AIR WILL BE REDUCED BY (MINIMUM CFM TO ZONE) DIVIDED BY 2. IF THE ZONE BECOMES OCCUPIED AGAIN, THE MINIMUM OUTSIDE AIR WILL BE INCREASED BY (MINIMUM CFM TO ZONE) DIVIDED BY 2. THE OUTSIDE AIR AIRFLOW MONITORING STATION WILL BE INTERLOCKED WITH THE OUTSIDE AIR DAMPER TO ENSURE THE UPDATED MINIMUM OUTSIDE AIR CFM TO THE ROOF TOP UNIT IS SATISFIED (E.G.: DAMPER POSITION WILL DECREASE IF REQUIRED OUTSIDE AIR CFM IS REDUCED).
3. THE AIR SYSTEM CONTROLLER SHALL BE CONFIGURED BY THE BALANCING CONTRACTOR TO SET MAXIMUM AND MINIMUM AIRFLOW VALUES PER THE DESIGN SCHEDULED VALUES.

ECONOMIZER CONTROL:

1. THE BAS SHALL MODULATE ALL VALVES CLOSED.
2. THE BAS SHALL SET THE OUTDOOR AIR DAMPER TO 100% OPEN.
3. THE BAS SHALL MODULATE THE RELIEF AIR DAMPER OPEN.
4. THE RELIEF AND RETURN AIR DAMPERS SHALL BE INTERLOCKED, SUCH THAT BAS SHALL MODULATE THE RETURN DAMPER INVERSELY TO THE RELIEF DAMPER TO MAINTAIN THE MIXED AIR TEMPERATURE ECONOMIZER EFFECTIVE SETPOINT.
5. THE BAS SHALL CONTINUE TO CALCULATE THE OUTDOOR AIRFLOW DCV EFFECTIVE SETPOINT AND SHALL SET A LIMIT TO ENSURE VENTILATION DOES NOT GO BELOW EFFECTIVE SETPOINT.

EQUIPMENT FAILURES & SHUTDOWN SAFETIES:

THE CONTROLS CONTRACTOR WILL WIRE ALL SAFETY RELAYS SUCH THAT WHEN TRIGGERED, AN IN SERIES—NORMALLY CLOSED—HARDWIRED SUPPLY FAN(S) START/STOP COMMAND WILL OPEN, PREVENTING THE START SIGNAL TO THE FAN(S). THE AIR SYSTEM CONTROLLER SHALL THEN INITIATE THE AIR SYSTEM SHUTDOWN SEQUENCE FOR THE FOLLOWING SAFETIES:
- SUPPLY FAN HIGH STATIC PRESSURE SWITCH: IF FOR ANY REASON THE SUPPLY AIR PRESSURE EXCEEDS THE SUPPLY AIR PRESSURE HIGH LIMIT, THE SUPPLY FAN SHALL SHUT DOWN. THE UNIT SHALL BE ALLOWED TO RESTART THREE TIMES AFTER A 15 MINUTE OFF PERIOD. IF THE OVERPRESSURIZATION CONDITION OCCURS ON THE FOURTH RESTART, THE UNIT SHALL SHUT DOWN AND A MANUAL RESET DIAGNOSTIC IS DISPLAYED AT THE REMOTE PANEL AND/OR THE BAS SYSTEM.
- SUPPLY FAN LOW STATIC PRESSURE SWITCH.
- SUPPLY FAN DOOR SAFETY SWITCH.
- SMOKE DETECTOR SHUTDOWN: THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.
- CONDENSATE OVERFLOW SHUTDOWN: THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE PAN CONDENSATE OVERFLOW SWITCH. THE SWITCH SHALL BE INTERLOCKED TO THE UNIT COOLING CONTROLLER FOR IMMEDIATE SHUTDOWN OF COOLING. SEND AN ALARAM TO BAS.
- IF ECONOMIZER IS RUNNING WHEN THE ECONOMIZER IS DISABLED OR NOT RUNNING WHEN THE ECONOMIZER IS ENABLE, AN ALARM SHALL BE SENT TO THE BAS.
- IF A TEMPERATURE SENSOR FAILS TO READ, AN ALARM SHALL BEN SENT TO THE BAS.
- IF THE ECONOMIZER RELIEF DAMPER IS NOT MODULATING WHEN THE ECONOMIZER IS ENABLED, AN ALARM SHALL BE SENT TO THE BAS.

INSTALLATION NOTES

1. POINT SUMMARY STATES POINTS REQUIRED AND DOES NOT EXCLUDE POINTS LISTED/SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
2. BAS POINT NAMES AND GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
3. PROVIDE A FINAL COPY OF AS-BUILT CONTROL TERMINATION DRAWING, AND RELATED RISER DIAGRAM LAYOUT INSIDE OF ALL BUILDING CONTROLLERS PANEL ENCLOSURES.
4. PROVIDE MATCHED PAIR TEMPERATURE SENSORS AS REQUIRED BY DIV 25 SPECS.
5. ALL PHYSICAL POINTS FOR EACH RESPECTIVE SYSTEM AND ASSOCIATED EQUIPMENT SHALL BE WIRED TO A SINGLE BAS CONTROLLER.

GENERAL:

1. AHU-2 SHALL BE A DRAW-THROUGH VAV TYPE, CONSISTING OF A SUPPLY FAN ARRAY WITH VARIABLE FREQUENCY DRIVES (2 SUPPLY FANS AND 2 VARIABLE FREQUENCY DRIVES TOTAL), MERV 8 AND MERV 13 FILTERS, A COOLING COIL, AND A HEATING COIL.
2. THE UNIT RECEIVES OUTSIDE AIR AND ECONOMIZER AIR THROUGH AIR INTAKE LOUVER. DURING ECONOMIZER MODE AIR IS RELIEVED THROUGH EF-10.
3. THE UNIT SHALL BE STARTED AND STOPPED THROUGH THE DDC. WHEN UNIT IS ENERGIZED, THE RETURN AIR DAMPER SHALL BE FULLY OPEN TO FAN STARTING, THE ELECTRONICALLY ACTUATED CHILLED WATER VALVE AND OUTSIDE AIR, RETURN AIR AND RELIEF AIR DAMPERS SHALL BE ALLOWED TO MODULATE. EXHAUST AIR FANS INTERLOCKED WITH THE AIR HANDLING UNIT SHALL BE ACTIVATED. WHEN THE UNIT IS STOPPED, THE CHILLED WATER VALVE, AND THE OUTSIDE AIR, RETURN AIR, SUPPLY AIR AND RELIEF DAMPERS WILL CLOSE.
4. UPON START SIGNAL, ENERGIZE ALL FAN POWERED AIR TERMINALS PER FAN POWERED UNIT SEQUENCE OF OPERATION.
5. OUTSIDE AIR AND RELIEF AIR FLOW WILL BE MONITORED VIA AIR FLOW MONITORING STATIONS.

SUPPLY AIR FAN:

1. A DUCT STATIC PRESSURE SENSOR(S) SHALL BE LOCATED APPROXIMATELY 2/3 OF THE WAY DOWN THE LONGEST SUPPLY DUCT RUN (ADJUSTABLE, TAB CONTRACTOR TO DETERMINE THE LOCATION). THE DDC SHALL SELECT THE LOWEST OF THE PRESSURE SIGNALS TO MODULATE THE SUPPLY FAN VFD TO MAINTAIN DUCT STATIC PRESSURE SETPOINT (1.0" W.G INITIAL, ADJUSTABLE). FINAL STATIC PRESSURE SETTING SHALL BE FIELD DETERMINED DURING TESTING AND BALANCING. THE SPEED OF THE FAN SHALL NOT BE ADJUSTED BY MORE THAN 20% IN ANY ONE-MINUTE PERIOD.

CHILLED WATER COIL:

1. DUCT AVERAGE TEMPERATURE SENSOR LOCATED DOWNSTREAM OF THE COOLING COIL SHALL THROUGH THE DDC MODULATE THE NORMALLY OPEN CHILLED WATER VALVE TO MAINTAIN THE AHU DISCHARGE TEMPERATURE SETPOINT OF 53.7° F.

HEATED WATER COIL:

1. DUCT AVERAGE TEMPERATURE SENSOR LOCATED DOWNSTREAM OF THE HEATING COIL SHALL THROUGH THE DDC MODULATE THE NORMALLY OPEN HOT WATER VALVE TO MAINTAIN THE AHU DISCHARGE TEMPERATURE SETPOINT OF 41.3° F.

FILTERS:

1. EACH FILTER BANK (MERV 8 AND 13 CONSIDERED TWO BANKS) WILL HAVE A DIFFERENTIAL PRESSURE SWITCH TO INDICATE HIGH DIFFERENTIAL PRESSURE ACROSS THE FILTERS. THE SWITCH SHALL BE AN ALARM INPUT TO THE DDC SYSTEM. INITIAL SETPOINT TO BE 0.5" W.G. FOR MERV 8 AND 0.72" W.G. MERV 13.

DAMPERS (NON-ECONOMIZER MODE):

1. THE DDC SHALL SET THE OUTSIDE AIR DAMPER TO THE POSITION THAT SATISFIES THE OUTSIDE AIR FLOW RATE. THE MINIMUM OUTSIDE AIR SHALL BE 1500 CFM (ADJUSTABLE).
2. THE DDC SYSTEM SHALL MODULATE THE RELIEF AIR DAMPER TO MAINTAIN BUILDING DIFFERENTIAL PRESSURE (VIA DP SENSOR SHALL BE INSTALLED IN THE MAIN LOBBY) SETPOINT OF 0.025" W.G (ADJUSTABLE).
3. THE RELIEF AIR FAN SHALL BE OFF WITH RELIEF AIR DAMPER IN THE CLOSED POSITION.

ECONOMIZER MODE:

1. THE DDC SHALL MODULATE ALL VALVES CLOSED.
2. THE DDC SHALL SET THE OUTDOOR AIR DAMPER TO 100% OPEN.
3. THE DDC SHALL MODULATE THE RELIEF AIR DAMPER OPEN.
4. THE RELIEF AND RETURN AIR DAMPERS SHALL BE INTERLOCKED, SUCH THAT DDC SHALL MODULATE THE RETURN DAMPER INVERSELY TO THE RELIEF DAMPER TO MAINTAIN THE MIXED AIR TEMPERATURE ECONOMIZER EFFECTIVE SETPOINT.
5. THE DDC SHALL CONTINUE TO CALCULATE THE OUTDOOR AIRFLOW DCV EFFECTIVE SETPOINT AND SHALL SET A LIMIT TO ENSURE VENTILATION DOES NOT GO BELOW EFFECTIVE SETPOINT.

SAFETIES:

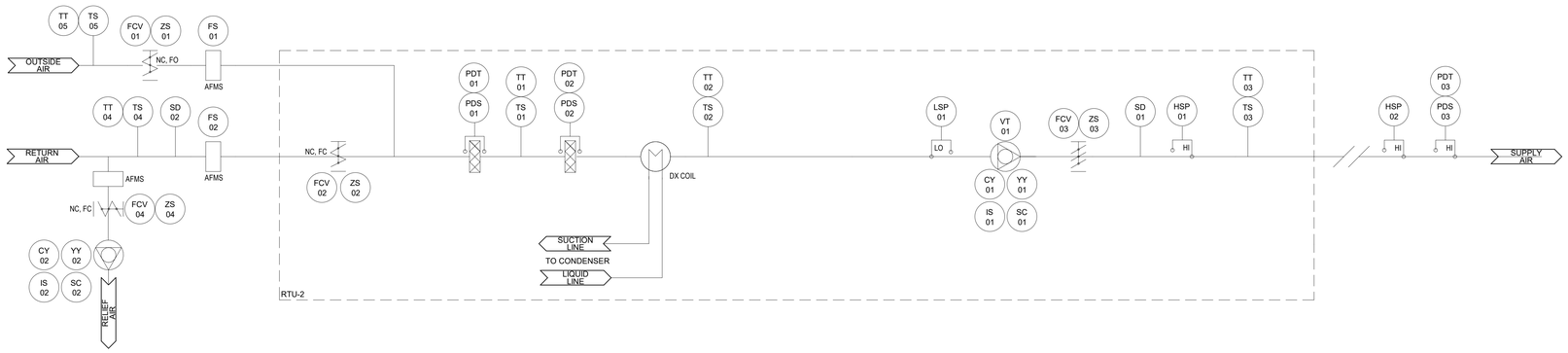
1. A SMOKE DETECTOR LOCATED IN THE AIR HANDLING UNIT RETURN SHALL THROUGH THE FIRE ALARM SYSTEM, DE-ENERGIZE THE SUPPLY FAN WHENEVER PRODUCTS OF COMBUSTION ARE SENSED. THIS SHALL BE A HARD WIRED INTERLOCK.
2. UPON A DROP IN INLET AIR TEMPERATURE BELOW THE FREEZESTAT SETPOINT (35 F ADJUSTABLE), THE CHILLED WATER VALVE SHALL BE FULLY OPEN, THE SUPPLY FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE, AND ALARM SIGNAL SHALL BE SENT DIRECTLY TO THE DDC SYSTEM. THE FREEZE STAT SHALL BE MANUAL RESET.
3. A HIGH STATIC PRESSURE CUTOUT SWITCH LOCATED IN THE SUPPLY FAN DISCHARGE SHALL BE HARD-WIRED TO DE-ENERGIZE THE SUPPLY FAN WHENEVER STATIC PRESSURE EXCEEDS 4.5" W.G (FIELD ADJUSTABLE), AND AN ALARM SHALL BE SENT TO THE DDC SYSTEM.
4. A LOW STATIC PRESSURE CUTOUT SWITCH LOCATED IN THE SUPPLY FAN INTAKE SHALL BE HARD-WIRED TO DE-ENERGIZE THE SUPPLY FAN WHENEVER STATIC PRESSURE EXCEEDS NEGATIVE 2" W.G (FIELD ADJUSTABLE), AND AN ALARM SHALL BE SENT TO THE DDC SYSTEM.
5. ON POWER INTERRUPTION OR FAN SHUTDOWN, THE OUTSIDE AIR DAMPER, AND CHILLED WATER VALVE SHALL CLOSE.
6. AN ALARM SHALL BE SENT TO DDC SYSTEM IF THE MAXIMUM PRESSURE OF THE FILTERS ARE REACHED.
7. A SOFTWARE INTERLOCK SHALL BE PROGRAMMED BETWEEN AHU-1 SUPPLY AIR FAN AND EF-10. WHILE ON ECONOMIZER MODE IF EITHER OF THE FANS FAILS, THE CORRESPONDING PAIR SHALL BE SHUT DOWN AND AN ALARM SEND THROUGH THE DDC SYSTEM.
8. MANUAL OVERRIDE TO TURN THE UNIT ON IF UNOCCUPIED.
9. UPON A LOSS OF CONTROL POWER TO THE CONTROL SYSTEM, THE UNIT SHALL CONTINUE TO OPERATE AND ALL CONTROL POINTS SHALL REMAIN IN THEIR CURRENT POSITIONS.

OCCUPANCY SENSOR IN CONFERENCE ROOMS:

1. A CARBON DIOXIDE SENSOR SHALL BE LOCATED IN EACH CONFERENCE ROOM AND TIED INTO THE DDC SYSTEM FOR DEMAND CONTROL VENTILATION.

THE FOLLOWING SHALL BE INCLUDED AND SHOWN IN THE GRAPHIC PACKAGE:

SUPPLY AIR TEMPERATURE.
SUPPLY AIR COOLING TEMPERATURE SETPOINT.
SUPPLY AIR HEATING TEMPERATURE SETPOINT.
OUTDOOR AIR TEMPERATURE.
OUTDOOR AIR DEWPOINT TEMPERATURE.
FILTERS DIFFERENTIAL PRESSURE.
CHILLED WATER VALVE.
CHILLED WATER VALVE POSITION.
HOT WATER VALVE.
HOT WATER VALVE POSITION.
OUTDOOR AIR DAMPER.
OUTDOOR AIR DAMPER POSITION.
FREEZESTAT STATUS.
SUPPLY AIR SMOKE DETECTOR.SUPPLY FAN START/STOP.
SUPPLY DUCT STATIC PRESSURE.
SUPPLY FAN VFD SPEED.
SUPPLY AIR SMOKE ALARM.
HIGH SUPPLY AIR TEMPERATURE ALARM.
LOW SUPPLY AIR TEMPERATURE ALARM.
SUPPLY FAN FAILURE ALARM.
SUPPLY FAN IN HAND ALARM.
SUPPLY FAN VFD FAULT ALARM.
FILTER CHANGE REQUIRED ALARM.
HIGH STATIC PRESSURE ALARM.
LOW STATIC PRESSURE ALARM.
ENTERING AIR TEMPERATURE.
COOLING COIL DISCHARGE TEMPERATURE.
HEATING COIL DISCHARGE TEMPERATURE.
ECONOMIZER AIR FLOW MONITORING STATION.
SUPPLY FAN STATUS.
OUTISDE AIR FLOW MONITORING STATION.



1 ROOF TOP UNIT CONTROL DIAGRAM (RTU-2)
NTS

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

95% CONSTRUCTION DOCUMENTS PACKAGE

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL CONTROLS

M7.05

DRG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

2/28/2025 11:07:17 AM

100 % OUTDOOR AIR UNIT RTU-1 NORTEK VENMAR

DEVICE	ID	DESCRIPTION	LOCAL CONTROLLER					INTEGRATION	
			AI	AO	DI	DO	VP	TYPE	TREND
VFD	01	SUPPLY FAN [VFD]						SUBPOINTS	
CY	02	SUPPLY FAN [VFD] - START/STOP				X		BOOLEAN	COV
IS	02	SUPPLY FAN [VFD] - STATUS			X			BOOLEAN	COV
SC	01	SUPPLY FAN [VFD] - SPEED COMMAND		X				NUMERIC	1%
YY	01	SUPPLY FAN [VFD] - GENERAL ALARM			X			BOOLEAN	COV
VT	01	SUPPLY FAN [VFD] - VIBRATION TRANSMITTER			X			BOOLEAN	COV
INT	01	SUPPLY FAN [VFD] - BACNET INTEGRATION					X	SUBPOINTS	
HSP	02	SUPPLY FAN HIGH STATIC PRESSURE SWITCH			X			BOOLEAN	COV
HSP	01	SUPPLY FAN HIGH STATIC PRESSURE SWITCH			X			BOOLEAN	COV
LSP	01	SUPPLY FAN LOW STATIC PRESSURE SWITCH			X			BOOLEAN	COV
PDS	03	MANIFOLD SUPPLY AIR DUCT STATIC PRESSURE SENSOR	X					NUMERIC	1%
PDT	03	MANIFOLD SUPPLY AIR DUCT STATIC PRESSURE TRANSMITTER	X					NUMERIC	1%
SD	01	SUPPLY AIR SMOKE DETECTOR			X			BOOLEAN	COV
PDS	01	35% PRE FILTER DIFFERENTIAL PRESSURE SENSOR	X					NUMERIC	11%
PDT	01	35% PRE FILTER DIFFERENTIAL PRESSURE TRANSMITTER	X					NUMERIC	11%
PDS	02	85% PREFILTER DIFFERENTIAL PRESSURE SENSOR	X					NUMERIC	11%
PDT	02	85% PREFILTER DIFFERENTIAL PRESSURE TRANSMITTER	X					NUMERIC	11%
FCV	02	REFRIGERANT VALVE COMMAND		X				NUMERIC	1%
FCV	03	HOT GAS VALVE COMMAND		X				NUMERIC	1%
ZS	02	REFRIGERANT VALVE FEEDBACK	X					NUMERIC	1%
ZS	03	HOT GAS VALVE FEEDBACK	X					NUMERIC	1%
LTD	01	LOW TEMPERATURE SWITCH			X			BOOLEAN	COV
TS	01	OUTDOOR AIR TEMPERATURE SENSOR	X					NUMERIC	11%
TS	02	COOLING COIL LEAVING AIR TEMPERATURE SENSOR	X					NUMERIC	11%
TS	04	SUPPLY AIR TEMPERATURE SENSOR	X					NUMERIC	11%
TT	01	OUTDOOR AIR TEMPERATURE TRANSMITTER	X					NUMERIC	11%
TT	02	COOLING COIL LEAVING AIR TEMPERATURE TRANSMITTER	X					NUMERIC	11%
TT	04	SUPPLY AIR TEMPERATURE TRANSMITTER	X					NUMERIC	1%
FCV	04	SUPPLY AIR ISOLATION DAMPER COMMAND				X		BOOLEAN	COV
ZS	04	SUPPLY AIR ISOLATION DAMPER FEEDBACK			X			BOOLEAN	COV
FCV	01	OUTDOOR AIR DAMPER COMMAND				X		BOOLEAN	COV
FS	01	OUTDOOR AIR DAMPER COMMAND				X		BOOLEAN	COV
ZS	01	OUTDOOR AIR DAMPER FEEDBACK			X			BOOLEAN	COV

ROOFTOP UNIT (RTU-1) – CONTROL SEQUENCE

GENERAL:

THE CONTROL SYSTEM SHALL BE A FULL DIRECT DIGITAL CONTROL (DDC) CONTROLS SYSTEM CONSISTING OF NETWORK COMMUNICATION WIRING, BUILDING AUTOMATION SYSTEM (BAS), AND APPLICATION SPECIFIC CONTROLLERS (ASC).
THE SYSTEM SHALL BE MONITORED BY THE BAS. OCCUPIED TIME FRAME SHALL BE 24 HOURS A DAY, 7 DAYS A WEEK, 365 DAYS A YEAR.

FAN CONTROL:

THE FAN SHALL RUN CONTINUOUSLY. THE SUPPLY SHALL BE CONTROLLED BY A STATIC PRESSURE SENSOR LOCATED 2/3 TO 3/4 OF THE WAY DOWN THE SUPPLY DUCTWORK. A PRESSURE TRANSMITTER SHALL SEND A SIGNAL TO THE ROOFTOP UNIT ASC WHICH SHALL MODULATE THE VARIABLE FREQUENCY DRIVE (VFD) TO MAINTAIN AN ADJUSTABLE SYSTEM STATIC PRESSURE SETPOINT. WHEN THE ROOFTOP UNIT IS STARTED THE SUPPLY FAN VFD SHALL GRADUALLY INCREASE SPEED TO MAINTAIN THE SYSTEM STATIC PRESSURE. THE FAN SHALL BE ENABLED TO RUN AFTER OUTSIDE AIR DAMPER AND THE FAN'S ASSOCIATED ISOLATION DAMPER IS PROVEN OPEN AND EXHAUST FANS ARE/IS OPERATING. MANUAL RESET HIGH-PRESSURE DUCT SENSOR SHALL SHUT DOWN THE UNIT IF THERE IS AN UNSAFE HIGH DISCHARGE STATIC PRESSURE. PROVIDE A CURRENT SENSOR FOR SUPPLY FAN, IN THE POWER FEED, TO BE MONITORED BY THE BAS INDICATING FAN STATUS. WHENEVER FAN FAILS TO OPERATE A SIGNAL (ALARM) SHALL BE SENT TO THE BAS. FANS SHALL BE ENABLED BY THE BAS TO SATISFY THE STATIC PRESSURE SETPOINT AS MEASURED BY THE STATIC PRESSURE SENSOR.

THE SUPPLY AIR FAN SHALL BE INTERLOCKED TO START AND STOP SIMULTANEOUSLY WITH THE EXHAUST FANS TO MAINTAIN SPACE PRESSURIZATION BY SUPPLY AND EXHAUST VOLUMETRIC OFFSETT SO THAT SPACES ARE NOT OVER OR UNDER PRESSURIZED. IN ORDER TO ENSURE EQUAL WEAR ON EACH FAN, THE LEAD FAN SHALL AUTOMATICALLY ALTERNATE MONTHLY ON THE FIRST SUNDAY AT MIDNIGHT AND THE STANDBY FAN SHALL BECOME THE LEAD FAN.

ROOFTOP UNIT SHUT DOWN:

THE AIR HANDLER SHALL SHUT DOWN WHEN DISABLED BY THE BAS, WHEN AN UNSAFE ALARM CONDITION EXISTS (SEE SAFETIES AND ALARMS), OR WHEN THE EMERGENCY PUSHBUTTON IS MANUALLY ACTIVATED. SUPPLY FANS SHALL GRADUALLY DECREASE FANS SPEED VIA THE VFD. NO OUTDOOR AIR DAMPER OR ISOLATION DAMPER SHALL CLOSED UNTIL FAN SPEED IS AT ZERO.

WHEN THE SYSTEM, AIR HANDLER, OR UNIT IS REFERRED TO AS BEING SHUT DOWN OR STOPPED, HEREIN; THEN THE FOLLOWING CONDITIONS ARE TO BE SATISFIED:
1. THE ROOFTOP UNIT SUPPLY FAN IS OFF.
2. THE OUTSIDE AIR DAMPER IS CLOSED.
3. FAN ISOLATION DAMPER IS CLOSED.
4. **THE GAS FURNACE IS OFF AND GAS VALVE IS CLOSED IF APPLICABLE.**
5. THE COMPRESSORS OFF AND THE AIR COOLED CONDENSER IS OFF.

SUPPLY AIR TEMPERATURE RESET

THE RTU'S DISCHARGE AIR TEMPERATURE (DAT) IS CONTINUOUSLY MONITORED BY THE BAS VIA THE DISCHARGE AIR TEMPERATURE SENSOR (TS-03). THIS TEMPERATURE SHALL BE RESET BASED ON THE BUILDING LOADS AS FOLLOWS:
- WHEN AVERAGE SPACE TEMPERATURE IS ABOVE THE DAT SETPOINT (INDICATING LESS COOLING DEMAND), INCREASE THE DISCHARGE AIR TEMPERATURE SETPOINT BY 5°F.
- WHEN AVERAGE SPACE TEMPERATURE IS BELOW THE DAT SETPOINT (INDICATING GREATER COOLING DEMAND), DECREASE THE DISCHARGE AIR TEMPERATURE SETPOINT BY 5°F.

TO AVOID EXCESSIVE OSCILLATION OF THE DAT SETPOINT, IMPLEMENT A DEADBAND OF ±2°F AROUND THE DAT SETPOINT. A MINIMUM TIME DELAY 15 MINUTES BETWEEN EACH ADJUSTMENT OF THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE IMPLEMENTED. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS OR PROVIDES INVALID DATA, REVERT TO A FAILSAFE DISCHARGE AIR TEMPERATURE SETPOINT (DEFAULT SETPOINT) AND GENERATE AN ALARM TO NOTIFY THE BUILDING OPERATOR.

COOLING MODE:

DURING A CALL FOR COOLING, THE DISCHARGE AIR TEMPERATURE SENSOR (TS-04) SHALL SEND A SIGNAL TO THE AIR HANDLER ASC TO MAINTAIN A DISCHARGE AIR TEMPERATURE SETPOINT OF 48°F (ADJUSTABLE). MULTIPLE COMPRESSORS OF COOLING CAN BE CONFIGURED SUBJECT TO MINIMUM RUN TIMES, MINIMUM OFF TIMES, STAGING UP AND STAGING DOWN DELAYS. COOLING IS ENABLED WHEN THE OUTDOOR AIR TEMPERATURE RISES ABOVE THE COOLING SETPOINT. COOLING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE FALLS ONE DEADBAND BELOW THE COOLING SETPOINT. THE SETPOINT AND DEADBAND ARE USER ADJUSTABLE. ONCE IN THE COOLING MODE THE UNIT WILL MAINTAIN THE SUPPLY AIR TEMPERATURE AT THE SUPPLY AIR COOLING SETPOINT BY MODULATING A DIGITAL COMPRESSOR (1.5 5.0 VDC OPERATION). A COIL SUCTION PRESSURE SENSOR IS REQUIRED.
IF ADDITIONAL COOLING IS REQUIRED, FIXED COMPRESSOR STAGES CAN BE STAGED ON WHILE THE COMPRESSOR CONTINUES TO MODULATE. TO STAGE UP THE EXTRA COMPRESSORS, THE SUPPLY TEMPERATURE NEEDS TO BE ABOVE THE STAGE UP SETPOINT AND THE COMPRESSOR NEEDS TO BE AT 100% FOR A PERIOD OF TIME EQUAL TO THE STAGE UP DELAY TO STAGE DOWN THE EXTRA COMPRESSORS, THE SUPPLY TEMPERATURE NEEDS TO BE BELOW THE STAGE DOWN SETPOINT AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 0% FOR A PERIOD OF TIME EQUAL TO THE STAGING DOWN DELAY. IN A CONFIGURATION THAT HAS TWO FIXED COMPRESSORS THE FIRST FIXED COMPRESSOR HAS THE SAME CAPACITY AS THE DIGITAL COMPRESSOR AND THE SECOND HAS DOUBLE THE CAPACITY OF THE DIGITAL COMPRESSOR. IN A CONFIGURATION WITH OTHER THAN 2 FIXED STAGES, THE COMPRESSOR CAPACITIES ARE EQUAL TO THE DIGITAL COMPRESSOR AND NORMAL STAGING WILL OCCUR. MECHANICAL COOLING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SETPOINT BY 1°F.

DEHUMIDIFICATION MODE:

DEHUMIDIFICATION IS ENABLED BASED ON AN OUTDOOR AIR DEWPOINT SETPOINT. THIS REQUIRES AN OUTDOOR HUMIDITY AND OUTDOOR TEMPERATURE SENSOR. ONCE IN DEHUMIDIFICATION, THE UNIT WILL MAINTAIN THE EVAPORATOR COIL SUCTION TEMPERATURE AT THE COIL SUCTION TEMPERATURE SETPOINT BY MODULATING DIGITAL COMPRESSOR (1.5 5.0 VDC OPERATION). A COIL SUCTION PRESSURE SENSOR IS REQUIRED AND IF ADDITIONAL DEHUMIDIFICATION IS REQUIRED, FIXED COMPRESSOR STAGES SHALL BE STAGED ON WHILE THE DIGITAL COMPRESSOR CONTINUES TO MODULATE. TO STAGE UP THE EXTRA COMPRESSORS, THE COIL TEMPERATURE NEEDS TO BE ABOVE THE STAGE UP SETPOINT AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 100% FOR A PERIOD OF TIME EQUAL TO THE STAGE UP DELAY TO STAGE DOWN THE EXTRA COMPRESSORS, THE COIL TEMPERATURE NEEDS TO BE BELOW THE STAGE DOWN SETPOINT AND THE DIGITAL COMPRESSOR NEEDS TO BE AT 0% FOR A PERIOD OF TIME EQUAL TO THE STAGING DOWN DELAY. THE COMPRESSOR CAPACITIES ARE EQUAL TO THE DIGITAL COMPRESSOR AND NORMAL STAGING WILL OCCUR. DEHUMIDIFICATION CAN BE SELECTED AS A PRIORITY MODE, OTHERWISE IT IS ONLY AVAILABLE WHEN HEATING AND COOLING DEMANDS ARE SATISFIED. REHEAT OPTIONS ARE MODULATING OR FIXED HOT GAS REHEAT AND, IN CERTAIN CONDITIONS, UNIT HEAT CAN BE USED AS A REHEAT SOURCE WHEN THE HOT GAS REHEAT IS NOT SUFFICIENT.

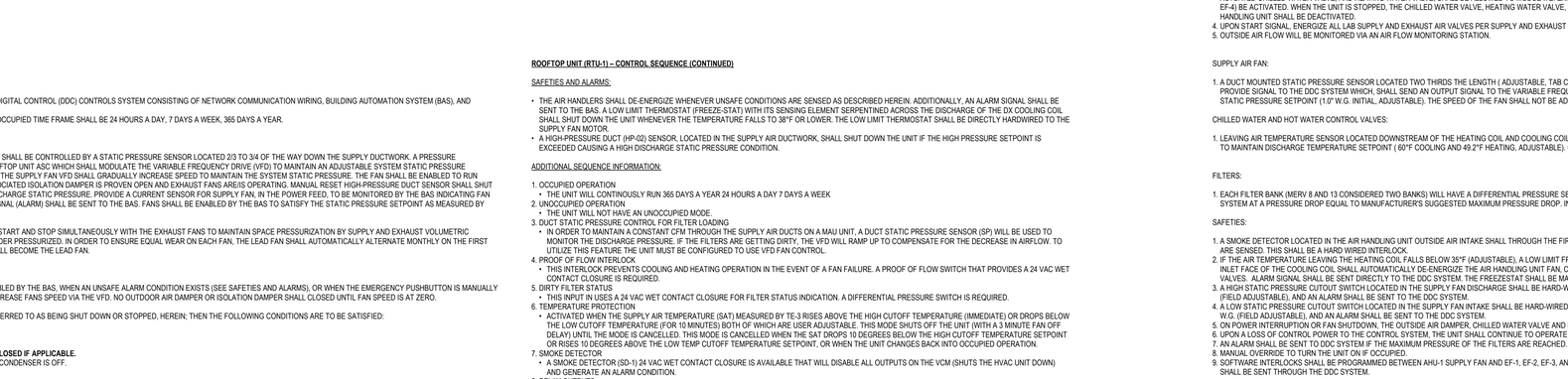
ROOFTOP UNIT (RTU-1) – CONTROL SEQUENCE (CONTINUED)

SAFETIES AND ALARMS:

- THE AIR HANDLERS SHALL DE-ENERGIZE WHENEVER UNSAFE CONDITIONS ARE SENSED AS DESCRIBED HEREIN, ADDITIONALLY, AN ALARM SIGNAL SHALL BE SENT TO THE BAS. A LOW LIMIT THERMOSTAT (FREEZE-STAT) WITH ITS SENSING ELEMENT SERPENTINED ACROSS THE DISCHARGE OF THE DX COOLING COIL SHALL SHUT DOWN THE UNIT WHENEVER THE TEMPERATURE FALLS TO 38°F OR LOWER. THE LOW LIMIT THERMOSTAT SHALL BE DIRECTLY HARDWIRED TO THE SUPPLY FAN MOTOR.
- A HIGH-PRESSURE DUCT (HP-02) SENSOR, LOCATED IN THE SUPPLY AIR DUCTWORK, SHALL SHUT DOWN THE UNIT IF THE HIGH PRESSURE SETPOINT IS EXCEEDED CAUSING A HIGH DISCHARGE STATIC PRESSURE CONDITION.

ADDITIONAL SEQUENCE INFORMATION:

1. OCCUPIED OPERATION
   - THE UNIT WILL CONTINUOUSLY RUN 365 DAYS A YEAR 24 HOURS A DAY 7 DAYS A WEEK
2. UNOCCUPIED OPERATION
   - THE UNIT WILL NOT HAVE AN UNOCCUPIED MODE.
3. DUCT STATIC PRESSURE CONTROL FOR FILTER LOADING
   - IN ORDER TO MAINTAIN A CONSTANT CFM THROUGH THE SUPPLY AIR DUCTS ON A MAU UNIT, A DUCT STATIC PRESSURE SENSOR (SP) WILL BE USED TO MONITOR THE DISCHARGE PRESSURE. IF THE FILTERS ARE GETTING DIRTY, THE VFD WILL RAMP UP TO COMPENSATE FOR THE DECREASE IN AIRFLOW. TO CONTACT CLOSURE IS REQUIRED.
4. PROOF OF FLOW INTERLOCK
   - THIS INTERLOCK PREVENTS COOLING AND HEATING OPERATION IN THE EVENT OF A FAN FAILURE. A PROOF OF FLOW SWITCH THAT PROVIDES A 24 VAC WET CONTACT CLOSURE IS REQUIRED.
5. DIRTY FILTER STATUS
   - THIS INPUT IN USES A 24 VAC WET CONTACT CLOSURE FOR FILTER STATUS INDICATION. A DIFFERENTIAL PRESSURE SWITCH IS REQUIRED.
6. TEMPERATURE PROTECTION
   - ACTIVATED WHEN THE SUPPLY AIR TEMPERATURE (SAT) MEASURED BY TE-3 RISES ABOVE THE HIGH CUTOFF TEMPERATURE (IMMEDIATE) OR DROPS BELOW THE LOW CUTOFF TEMPERATURE (FOR 10 MINUTES) BOTH OF WHICH ARE USER ADJUSTABLE. THIS MODE SHUTS OFF THE UNIT (WITH A 3 MINUTE FAN OFF DELAY) UNTIL THE MODE IS CANCELLED. THIS MODE IS CANCELLED WHEN THE SAT DROPS 10 DEGREES BELOW THE HIGH CUTOFF TEMPERATURE SETPOINT OR RISES 10 DEGREES ABOVE THE LOW TEMP CUTOFF TEMPERATURE SETPOINT, OR WHEN THE UNIT CHANGES BACK INTO OCCUPIED OPERATION.
7. SMOKE DETECTOR
   - A SMOKE DETECTOR (SD-1) 24 VAC WET CONTACT CLOSURE IS AVAILABLE THAT WILL DISABLE ALL OUTPUTS ON THE VCM (SHUTS THE HVAC UNIT DOWN) AND GENERATE AN ALARM CONDITION.
8. RELAY OUTPUTS
   - THE FOLLOWING ARE RELAY OUTPUTS OF THE VCM CONTROLLER:
   - COOLING STAGES
   - HEATING STAGES
   - OCCUPIED INDICATOR
   - **ON/OFF HOT GAS REHEAT**
   - ALARM INDICATOR
   - **PREHEAT**
   - OVERRIDE INDICATOR
   - ON/OFF EXHAUST FAN
9. SYSTEM BROADCASTS
   - AN OUTDOOR AIR TEMPERATURE SENSOR READING AND AN OUTDOOR AIR HUMIDITY SENSOR READING CAN BE BROADCAST FROM ONE VCM CONTROLLER TO ALL OTHER CONTROLLERS ON THE SYSTEM.
10. SCHEDULING
    - SCHEDULING WILL BE CONFIGURED BY THE BAS SYSTEM.
11. ALARM DETECTION AND REPORTING
    - ALARMS WILL BE REPORT TO THE BAS SYSTEM. THE APPLICATION SPECIFIC CONTROLLER (ASC) SHALL CONTINUOUSLY PERFORMS SELF DIAGNOSTICS DURING NORMAL OPERATIONS TO DETERMINE IF ANY OPERATING FAILURES HAVE OCCURRED. DIAGNOSTIC LEDS ON THE ACS CONTROLLER WILL GENERATE VISUAL AND AUDIABLE ALARMS FOR CERTAIN ALARM CONDITIONS.
12. TREND LOGGING
    - CONTINUOUSLY MAINTAINS AN INTERNAL TREND LOG IN MEMORY ON THE CONTROLLER WHICH RECORDS A FIXED SET OF VALUES AT A USER-DEFINED INTERVAL. A MINIMUM OF 120 LOG POSITIONS SHALL BE AVAILABLE ON THE CONTROLLER. VALUES SHALL BE RETRIEVED USING THE GRAPHICAL FRONT-END SOFTWARE PROGRAM. TREND VALUES SHALL BE CONTINUOUSLY SAVED TO THE BAS COMPUTER HARD DRIVE AND THE ARCIVE COMPUTER TO KEEP FROM LOSING DATA.



1 100 % OUTDOOR AIR UNIT CONTROL DRAWING (RTU-1)
NTS

INSTALLATION NOTES

1. POINT SUMMARY STATES POINTS REQUIRED AND DOES NOT EXCLUDE POINTS LISTED/SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
2. BAS POINT NAMES AND GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
3. A COPY OF THE FINAL AS-BUILT CONTROL TERMINATION DRAWING, AND RELATED RISER DIAGRAM LAYOUT SHALL RESIDE INSIDE OF ALL BUILDING CONTROLLERS PANEL ENCLOSURES.
4. AIRFLOW STATIONS INSTALLED BY CONTRACTOR SHALL COMPLY WITH MANUFACTURER STRAIGHT DUCT DIAMETERS UPSTREAM TO PROVIDE PROPER FLOW SENSING.
5. PROVIDE MATCHED PAIR TEMPERATURE SENSORS AS REQUIRED BY DIV 25 SPECS.
6. ALL PHYSICAL POINTS FOR THE SYSTEM AND ASSOCIATED EQUIPMENT SHALL BE WIRED TO A SINGLE BAS CONTROLLER.

GENERAL:

1. AHU-1 SHALL BE A DRAW-THROUGH VAV TYPE, CONSISTING OF A SUPPLY FAN ARRAY WITH VARIABLE FREQUENCY DRIVES (6 FANS AND VARIABLE FREQUENCY DRIVES TOTAL), MERV 8 AND MERV 13 FILTERS, HEATING COIL,COOLING COIL, OUTSIDE AIR DAMPER, AND RELATED CONTROL SYSTEM.
2. THE UNIT IS 100% OUTSIDE AIR, AND RECEIVES OUTSIDE AIR THROUGH INTAKE AIR LOUVER.
3. THE UNIT SHALL BE STARTED AND STOPPED THROUGH THE DDC. WHEN UNIT IS ENERGIZED, THE OUTSIDE AIR DAMPER SHALL BE FULLY OPEN PRIOR TO FAN STARTING, THE ELECTRONICALLY ACTUATED CHILLED WATER VALVE, AND HEATING WATER VALVE, SHALL BE ALLOWED TO MODULATE. EXHAUST AIR FANS INTERLOCKED WITH THE AIR HANDLING UNIT SHALL (EF-1, EF-2, EF-3, AND EF-4) BE ACTIVATED. WHEN THE UNIT IS STOPPED, THE CHILLED WATER VALVE, HEATING WATER VALVE, AND OUTSIDE AIR DAMPER SHALL CLOSE. EXHAUST AIR FANS INTERLOCKED WITH THE AIR HANDLING UNIT SHALL BE DEACTIVATED.
4. UPON START SIGNAL ENERGIZE ALL LAB SUPPLY AND EXHAUST AIR VALVES PER SUPPLY AND EXHAUST VAV UNIT SEQUENCE OF OPERATION.
5. OUTSIDE AIR FLOW WILL BE MONITORED VIA AN AIR FLOW MONITORING STATION.

SUPPLY AIR FAN:

1. A DUCT MOUNTED STATIC PRESSURE SENSOR LOCATED TWO THIRDS THE LENGTH (ADJUSTABLE, TAB CONTRACTOR TO DETERMINE THE LOCATION) OF THE SUPPLY DUCT FROM THE FAN SHALL PROVIDE SIGNAL TO THE DDC SYSTEM WHICH, SHALL SEND AN OUTPUT SIGNAL TO THE VARIABLE FREQUENCY DRIVE (VFD) TO MODULATE THE FAN MOTOR SPEED AS REQUIRED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT (1.0" W.G. INITIAL, ADJUSTABLE). THE SPEED OF THE FAN SHALL NOT BE ADJUSTED BY MORE THAN 20% IN ANY ONE-MINUTE PERIOD.

CHILLED WATER AND HOT WATER CONTROL VALVES:

1. LEAVING AIR TEMPERATURE SENSOR LOCATED DOWNSTREAM OF THE HEATING COIL AND COOLING COIL SHALL THROUGH THE DDC MODULATE THE CHILLED WATER VALVE AND HOT WATER VALVE TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT (60°F COOLING AND 49.2°F HEATING, ADJUSTABLE). CHILLED WATER VALVE AND HOT WATER VALVE SHALL NOT BE OPEN AT THE SAME TIME.

FILTERS:

1. EACH FILTER BANK (MERV 8 AND 13 CONSIDERED TWO BANKS) WILL HAVE A DIFFERENTIAL PRESSURE SENSOR LOCATED ACROSS THE FILTER SECTION SHALL SEND AN ALARM SIGNAL TO THE DDC SYSTEM AT A PRESSURE DROP EQUAL TO MANUFACTURER'S SUGGESTED MAXIMUM PRESSURE DROP. INITIAL SETPOINT TO BE 1.0" W.G. FOR MERV 8 AND 1.5" W.G. MERV 13.

SAFETIES:

1. A SMOKE DETECTOR LOCATED IN THE AIR HANDLING UNIT OUTSIDE AIR INTAKE SHALL THROUGH THE FIRE ALARM SYSTEM, DE-ENERGIZE THE SUPPLY FAN WHENEVER PRODUCTS OF COMBUSTION ARE SENSED. THIS SHALL BE A HARD WIRED INTERLOCK.
2. IF THE AIR TEMPERATURE LEAVING THE HEATING COIL FALLS BELOW 35°F (ADJUSTABLE), A LOW LIMIT FREEZE PROTECTION SWITCH (FREEZESTAT) WITH THE ELEMENTS MOUNTED ACROSS THE INLET FACE OF THE COOLING COIL SHALL AUTOMATICALLY DE-ENERGIZE THE AIR HANDLING UNIT FAN, CLOSE THE OUTSIDE AIR INTAKE DAMPER, FULLY OPEN THE CHILLED WATER AND HOT WATER VALVES. ALARM SIGNAL SHALL BE SENT DIRECTLY TO THE DDC SYSTEM. THE FREEZESTAT SHALL BE MANUAL RESET.
3. A HIGH STATIC PRESSURE CUTOUT SWITCH LOCATED IN THE SUPPLY FAN DISCHARGE SHALL BE HARD-WIRED TO DE-ENERGIZE THE SUPPLY FAN WHENEVER STATIC PRESSURE EXCEEDS 4.5" W.G. (FIELD ADJUSTABLE), AND AN ALARM SHALL BE SENT TO THE DDC SYSTEM.
4. A LOW STATIC PRESSURE CUTOUT SWITCH LOCATED IN THE SUPPLY FAN INTAKE SHALL BE HARD-WIRED TO DE-ENERGIZE THE SUPPLY FAN WHENEVER STATIC PRESSURE EXCEEDS NEGATIVE 2" W.G. (FIELD ADJUSTABLE), AND AN ALARM SHALL BE SENT TO THE DDC SYSTEM.
5. ON POWER INTERRUPTION OR FAN SHUTDOWN, THE OUTSIDE AIR DAMPER, CHILLED WATER VALVE AND HOT WATER VALVE SHALL CLOSE.
6. UPON A LOSS OF CONTROL POWER TO THE CONTROL SYSTEM, THE UNIT SHALL CONTINUE TO OPERATE AND ALL CONTROL POINTS SHALL REMAIN IN THEIR CURRENT POSITIONS.
7. AN ALARM SHALL BE SENT TO DDC SYSTEM IF THE MAXIMUM PRESSURE OF THE FILTERS ARE REACHED.
8. MANUAL OVERRIDE TO TURN THE UNIT ON IF OCCUPIED.
9. SOFTWARE INTERLOCKS SHALL BE PROGRAMMED BETWEEN AHU-1 SUPPLY FAN AND EF-1, EF-2, EF-3, AND EF-4. IF EITHER OF THE FANS FAILS, ALL THE FANS SHALL BE SHUT DOWN AND AN ALARM SHALL BE SENT THROUGH THE DDC SYSTEM.

THE FOLLOWING SHALL BE INCLUDED IN THE GRAPHICS PACKAGE:

SUPPLY AIR TEMPERATURE.
SUPPLY AIR COOLING TEMPERATURE SETPOINT.
SUPPLY AIR HEATING TEMPERATURE SETPOINT.
OUTDOOR AIR TEMPERATURE.
OUTDOOR AIR DEWPOINT TEMPERATURE.
FILTERS DIFFERENTIAL PRESSURE.
CHILLED WATER VALVE.
CHILLED WATER VALVE POSITION.
HOT WATER VALVE.
HOT WATER VALVE POSITION.
OUTDOOR AIR DAMPER.
OUTDOOR AIR DAMPER POSITION.
FREEZESTAT STATUS.
SUPPLY FAN STATUS.
SUPPLY FAN START/STOP.
SUPPLY DUCT STATIC PRESSURE.
SUPPLY FAN VFD SPEED.
HIGH SUPPLY AIR TEMPERATURE ALARM.
LOW SUPPLY AIR TEMPERATURE ALARM.
SUPPLY FAN FAILURE ALARM.
SUPPLY FAN IN HAND ALARM.
SUPPLY FAN VFD FAULT ALARM.
FILTER CHANGE REQUIRED ALARM.
LOW STATIC PRESSURE ALARM.
HIGH STATIC PRESSURE ALARM.
ENTERING AIR TEMPERATURE.
COOLING COIL DISCHARGE TEMPERATURE.
HEATING COIL DISCHARGE TEMPERATURE.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL CONTROLS

M7.06

DRG REFERENCE

95% CONSTRUCTION DOCUMENTS PACKAGE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

2/28/2025 11:07:19 AM

OFFICE/ SALLY PORT EXHAUST FAN POINTS LIST

DEVICE	ID	Description	LOCAL CONTROLLER					INTEGRATION			REMARKS
			AI	AO	DI	DO	VP	TYPE	ALM	TRND	
INT	01	WEF_##_001 [VFD] - BACNET INTEGRATION					R	SUBPOINTS			REFER TO GENERAL CONTROL SEQUENCE FOR INTEGRATION SUBPOINTS TO BE MAPPED
CY	01	WEF_##_001 [VFD] - START/STOP				X		BOOLEAN	MM	COV	ALARM CONTROL POINT WHEN MISMATCH FROM COMMAND FOR 150 SECONDS
IS	01	WEF_##_001 [VFD] - STATUS			X			BOOLEAN	A3	COV	ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
PDT	01	WEF_##_001 DUCT STATIC PRESSURE	X					NUMERIC	A3	IS	ALARM CONTROL POINT WHEN MISMATCH FROM COMMAND FOR 150 SECONDS
PDT	02	WEF_##_001 STATUS STATIC PRESSURE	X					NUMERIC	A3	COV	ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
ZS	01	WEF_##_001 ISOLATION DAMPER ENDSWITCH POSITION			X	X		BOOLEAN		COV	
FCV	01	WEF_##_001 ISOLATION DAMPER ENDSWITCH COMMAND				X		BOOLEAN	A3	COV	

TOILET EXHAUST FAN - CONTROL SEQUENCE

(CONTRACTOR SHALL CONFIRM FINAL SEQUENCE WITH OWNER)

TYPICAL TOILET AND GENERAL EXHAUST FAN OPERATION
1. FANS MAY RUN CONTINUOUSLY.
2. FANS MAY BE STARTED AND STOPPED THROUGH THE BAS.
3. THE DDC SYSTEM USES A CURRENT SWITCH TO MONITOR THE EXHAUST FAN STATUS.

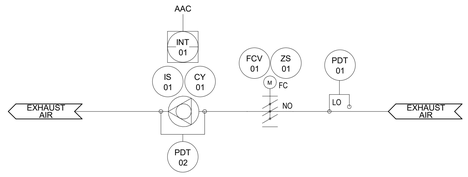
THE BAS USES THE CURRENT SENSOR AND DIFFERENTIAL PRESSURE SWITCH (ACROSS THE FAN) TO CONFIRM THE FAN IS RUNNING AND GENERATES AN ALARM IF STATUS IS OFF.

THE SPACE SERVED BY THE POWER ROOF VENT EXHAUST FAN IS CONTROLLED IN OCCUPIED AND UNOCCUPIED MODES AS FOLLOWS:

OCCUPIED
THE DDC SYSTEM OPENS THE VENT AND TURNS ON THE EXHAUST FAN.

UNOCCUPIED
THE EXHAUST FAN IS OFF.

A DUCT STATIC PRESSURE SENSOR SHALL BE INSTALLED TO MODULATE THE VFD SPEED AND FOR TESTING AND BALANCING PURPOSES.



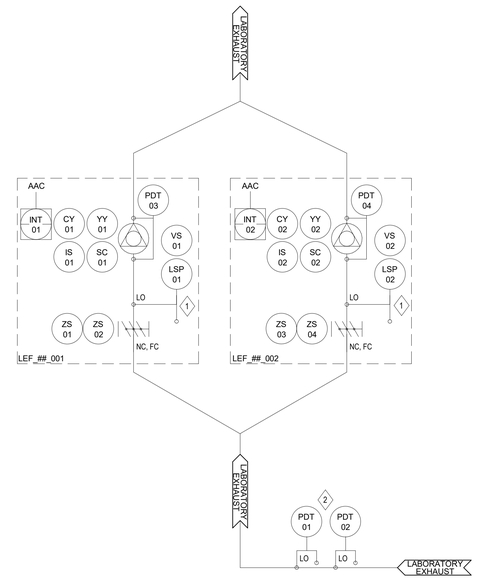
1 TOILET EXHAUST CONTROL DIAGRAM
NTS

LAB EXHAUST FANS POINTS LIST

DEVICE	ID	Description	LOCAL CONTROLLER					INTEGRATION			REMARKS
			AI	AO	DI	DO	VP	TYPE	ALM	TRND	
PDT	01	DUCT STATIC PRESSURE 1	X					NUMERIC	A2	IS	
INT	01	LEF_##_001 [VFD] - BACNET INTEGRATION					R	SUBPOINTS			REFER TO GENERAL CONTROL SEQUENCE FOR INTEGRATION SUBPOINTS TO BE MAPPED
YY	01	LEF_##_001 [VFD] - GENERAL ALARM			X			BOOLEAN	A3	COV	
SC	01	LEF_##_001 [VFD] - SPEED COMMAND		X				NUMERIC		IS	
CY	01	LEF_##_001 [VFD] - START/STOP				X		BOOLEAN	MM	COV	ALARM CONTROL POINT WHEN MISMATCH FROM COMMAND FOR 150 SECONDS
IS	01	LEF_##_001 [VFD] - STATUS			X			BOOLEAN	A3	COV	ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
ZS	01	LEF_##_001 ISOLATION DAMPER ENDSWITCH: OPEN			X			BOOLEAN	A3	COV	
LSP	01	LEF_##_001 LOW STATIC PRESSURE SWITCH			X			BOOLEAN	A3	COV	
VS	01	LEF_##_001 VIBRATION SWITCH			X			BOOLEAN	A3	COV	
PDT	02	DUCT STATIC PRESSURE 2	X					NUMERIC	A2	IS	
ZS	02	LEF_##_001 ISOLATION DAMPER ENDSWITCH: CLOSED			X			BOOLEAN		COV	
INT	02	LEF_##_002 [VFD] - BACNET INTEGRATION					R	SUBPOINTS			REFER TO GENERAL CONTROL SEQUENCE FOR INTEGRATION SUBPOINTS TO BE MAPPED
YY	02	LEF_##_002 [VFD] - GENERAL ALARM			X			BOOLEAN	A3	COV	
SC	02	LEF_##_002 [VFD] - SPEED COMMAND		X				NUMERIC		IS	
CY	02	LEF_##_002 [VFD] - START/STOP				X		BOOLEAN	MM	COV	ALARM CONTROL POINT WHEN MISMATCH FROM COMMAND FOR 150 SECONDS
IS	02	LEF_##_002 [VFD] - STATUS			X			BOOLEAN	A3	COV	ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
LSP	02	LEF_##_002 LOW STATIC PRESSURE SWITCH			X			BOOLEAN	A3	COV	
VS	02	LEF_##_002 VIBRATION SWITCH			X			BOOLEAN	A3	COV	
PDT	03	LEF_##_001 STATUS STATIC PRESSURE	X					NUMERIC	A3	COV	ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
ZS	03	LEF_##_002 ISOLATION DAMPER ENDSWITCH: OPEN			X			BOOLEAN	A3	COV	
PDT	04	LEF_##_001 STATUS STATIC PRESSURE	X					NUMERIC	A3	COV	ALARM EXTENSION SHALL REFERENCE START/STOP COMMAND
ZS	04	LEF_##_002 ISOLATION DAMPER ENDSWITCH: CLOSED			X			BOOLEAN		COV	

LAB EXHAUST FAN - CONTROL SEQUENCE

A. THE EXHAUST SYSTEM IS MEANT TO OPERATE CONTINOUSLY. THE FANS SHALL OPERATE IN A LEAD/LAG MODE AND SHALL BE BASED ON RUN TIME. ONLY ONE FAN SHALL OPERATE AT A TIME AND THE SYSTEM SHALL BE SETUP SO THAT A CHANGE OVER DOES NOT OCCUR DURING AN OCCUPIED MODE.
B. THE DDC SYSTEM SHALL START AND STOP ALL FANS. SYSTEM CONSIST OF TWO 100% REDUNDANT EXHAUST FAN.
C. THE EXHAUST SYSTEM SHALL BE ACTIVATED, DEACTIVATED, MONITORED AND CONTROLLED THROUGH LOCAL DDC CONTROL PANEL OR APPLICATION SPECIFIC CONTROLLER.
D. WHEN THE SYSTEM IS STARTED, THE DDC SHALL OPEN THE ISOLATION DAMPER AND START THE FAN ONCE THE DAMPER HAS PROVED OPEN VIA AN END SWITCH. IF THE FAN FAILS TO START, AS INDICATED BY THE DIFFERENTIAL PRESSURE SWITCH ACROSS THE FAN, THE FAILED FAN ISOLATION DAMPER SHALL CLOSE, AND AN ALARM SHALL BE GENERATED AND SENT TO THE HVAC CONTROL SYSTEM AND START SIGNAL SHALL BE SENT TO THE STANDBY FAN.
E. ON WEEKLY BASIS (ADJUSTABLE) THE DDC SYSTEM SHALL OPEN THE STANDBY FAN DAMPER AND START THE STANDBY FAN. THE LEAD FAN DAMPER SHALL CLOSE AND THE LEAD FAN SHALL BE DE-ENERGIZED. THE DDC SYSTEM SHALL CHANGE FANS ON A WEEKLY BASIS TO EQUALIZE RUN TIME FOR EACH FAN.
F. FAN SEQUENCE SHALL INCLUDE OCCUPIED AND UNOCCUPIED MODE, OCCUPIED MODE WHERE FAN SPEED SHALL BE MODULATED TO MAINTAIN MAXIMUM SCHEDULED AIRFLOW RATE. UNOCCUPIED MODE WHERE FAN SPEED SHALL BE MODULATE TO MAINTAIN MINIMUM SCHEDULED AIRFLOW RATE.
G. EXHAUST FANS WITH BYPASS DAMPER (EF-1A & 1B, EF-2A & 2B, EF-3A& 3B, EF-4A & 4B). WHEN EXHAUST FAN IS IN UNOCCUPIED MODE, THE BYPASS DAMPER SHALL MODULATE TO MAINTAIN CONSTANT EXHAUST AIR DISCHARGE VELOCITY. BYPASS DAMPER SHALL BE CONTROLLED BY CONTROLS CONTRACTOR VIA PRESSURE SENSOR INSTALLED IN DUCTWORK UPSTREAM EXHAUST FAN(S). PRESSURE SENSOR(S) SHALL BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR.
H. UPON RECEIVING A STOP SIGNAL, THE FAN SHALL BE DEACTIVATED AND THE ASSOCIATED ISOLATION DAMPER SHALL BE CLOSED.
I. UPON A LOSS OF CONTROL POWER TO THE CONTROL SYSTEM, THE UNIT SHALL CONTINUE TO OPERATE AND ALL CONTROL POINTS SHALL REMAIN IN THEIR CURRENT POSITIONS.



2 LAB EXHAUST (NEW) WITH REDUNDANT FAN CONTROL DIAGRAM
NTS

INSTALLATION NOTES

1. POINT SUMMARY STATES POINTS REQUIRED AND DOES NOT EXCLUDE POINTS LISTED/SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
2. BAS POINT NAMES AND GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
3. A COPY OF THE FINAL AS-BUILT CONTROL TERMINATION DRAWING, AND RELATED RISER DIAGRAM LAYOUT SHALL RESIDE INSIDE OF ALL BUILDING CONTROLLERS PANEL ENCLOSURES.
4. AIRFLOW STATIONS INSTALLED BY CONTRACTOR SHALL COMPLY WITH MANUFACTURER STRAIGHT DUCT DIAMETERS UPSTREAM TO PROVIDE PROPER FLOW SENSING.
5. PROVIDE MATCHED PAIR TEMPERATURE SENSORS AS REQUIRED BY DIV 25 SPECS.
6. ALL PHYSICAL POINTS FOR THE SYSTEM AND ASSOCIATED EQUIPMENT SHALL BE WIRED TO A SINGLE BAS CONTROLLER.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL CONTROLS

M7.07

DRG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: JOHNSTON
DESIGNED BY: JOHNSTON

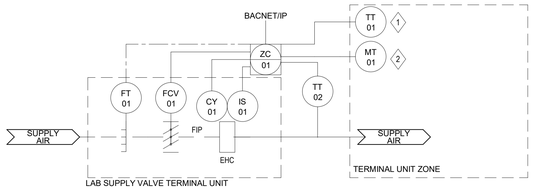
2/28/2025 11:07:20 AM

LAB SUPPLY VALVE POINTS LIST

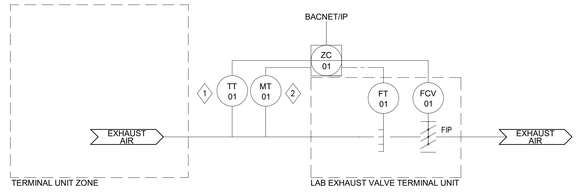
DEVICE	ID	DESCRIPTION	LOCAL CONTROLLER					INTEGRATION			REMARKS
			AI	AO	DI	DO	VP	TYPE	ALM	TREND	
TT	01	ZONE TEMPERATURE	X					NUMERIC	A6	15	ALARM ONLY WHERE REQUIRED BY MDACC
FT	01	SUPPLY AIRFLOW	X					NUMERIC		15	
FCV	01	SUPPLY AIR DAMPER COMMAND		X				NUMERIC		15	
CY	01	SUPPLY AIR DAMPER COMMAND		X				NUMERIC		15	
IS	01	SUPPLY AIR DAMPER COMMAND		X				NUMERIC		15	
TT	02	SUPPLY AIR TEMPERATURE	X					NUMERIC		15	

LAB EXHAUST VALVE POINTS LIST

DEVICE	ID	DESCRIPTION	LOCAL CONTROLLER					INTEGRATION			REMARKS
			AI	AO	DI	DO	VP	TYPE	ALM	TREND	
TT	01	ZONE TEMPERATURE	X					NUMERIC	A6	15	ALARM ONLY WHERE REQUIRED BY MDACC
FT	01	SUPPLY AIRFLOW	X					NUMERIC		15	
FCV	01	SUPPLY AIR DAMPER COMMAND		X				NUMERIC		15	
CY	01	SUPPLY AIR DAMPER COMMAND		X				NUMERIC		15	
IS	01	SUPPLY AIR DAMPER COMMAND		X				NUMERIC		15	
TT	02	SUPPLY AIR TEMPERATURE	X					NUMERIC		15	



1 LAB SUPPLY VALVE CONTROL DIAGRAM
12" = 1'-0"



2 LAB EXHAUST VALVE CONTROL DIAGRAM
12" = 1'-0"

LAB SUPPLY VALVE TERMINAL UNIT SEQUENCE OF OPERATION

GENERAL REQUIREMENTS:

A. THE UNIT SHALL BE CONTROLLED, MONITORED BY A FACTORY MOUNTED TERMINAL EQUIPMENT CONTROLLER. (TEC)
B. TERMINAL UNIT CONTROLLERS SHALL MONITOR THE STATUS OF THE ASSOCIATED AIR HANDLING UNIT TO DETERMINE ITS OPERATING MODE.
C. THE TERMINAL UNIT CONTROLLER SHALL MONITOR AND REPORT OVER THE NETWORK THE FOLLOWING ITEMS AS A MINIMUM: SPACE TEMPERATURE, SPACE TEMPERATURE SETPOINT, SUPPLY AIR TEMPERATURE, CONTROL DAMPER STATUS, AND REHEAT COIL CONTROL VALVE POSITION.
D. SPACE TEMPERATURE SHALL BE INDIVIDUALLY ADJUSTABLE AT THE SPACE TEMPERATURE SENSOR UNLESS NOTED OTHERWISE. THE THERMOSTAT SHALL INDICATE CURRENT ROOM SPACE TEMPERATURE.
E. THE SPACE TEMPERATURE SETPOINT SHALL BE ADJUSTABLE OVER THE HVAC CONTROL NETWORK AND THE CONTROLLER SHALL BE CAPABLE OF OVERRIDING THE THERMOSTAT SETPOINT.
F. SPACE TEMPERATURE SENSOR SHALL HAVE A 3°F ADJUSTABLE SETPOINT AT THE SPACE TEMPERATURE SENSOR.
G. UPON A LOSS OF CONTROL POWER TO THE CONTROL SYSTEM, THE UNIT SHALL CONTINUE TO OPERATE AND ALL CONTROL POINTS SHALL REMAIN IN THEIR CURRENT POSITIONS.
H. RESET STATIC PRESSURE SETPOINT BASED ON ZONES REQUIRING THE MOST PRESSURE, PER IECC 2018.

1. OCCUPIED MODE OPERATION:

A. CONSTANT VOLUME TERMINAL UNITS: THE TEC SHALL MODULATE THE TERMINAL UNIT CONTROL DAMPER TO MAINTAIN THE SCHEDULED MAXIMUM AIR FLOW. UPON A DECREASE IN THE NEED FOR COOLING THE TEC SHALL PROPORTIONALLY MODULATE THE REHEAT COIL CONTROL VALVE OPEN TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. UPON AN INCREASE IN THE NEED FOR COOLING, THE TEC SHALL PROPORTIONALLY MODULATE THE REHEAT COIL CONTROL VALVE CLOSE.
B. THE SPACE TEMPERATURE SETPOINT SHALL BE 68° F (ADJUSTABLE) FOR COOLING, AND 68° F (ADJUSTABLE) FOR HEATING.

3. OFF MODE:

A. WHEN THE ASSOCIATED AHU IS IN STOP MODE, THE VAV CONTROL DAMPER SHALL BE IN ITS FULLY OPEN POSITION.

THE FOLLOWING SHALL BE INCLUDED AND SHOWN IN THE GRAPHIC PACKAGE:
1 - DISCHARGE AIR TEMPERATURE.
2 - HEATING COIL VALVE.
3 - SPACE TEMPERATURE.
4 - PIMARY AIR DAMPER ACTUATOR.
5 - PIMARY AIR FLOW (CFM).
6 - HIGH SPACE TEMPERATURE ALARM.

FACTORY MOUNTED DDC CONTROLLER
SPACE TEMPERATURE AND HUMIDITY SENSORS LOCATED IN EXHAUST DUCT
TO OTHER TERMINAL UNIT CONTROLLERS AND TO DISPLAY MONITORS (SEE MECHANICAL SHEET 1M2.04 AND 1M2.06 FOR LOCATIONS)

LAB EXHAUST VALVE TERMINAL UNIT SEQUENCE OF OPERATION

GENERAL REQUIREMENTS:

A. THE UNIT SHALL BE CONTROLLED, MONITORED BY A FACTORY MOUNTED TERMINAL EQUIPMENT CONTROLLER. (TEC)
B. TERMINAL UNIT CONTROLLERS SHALL MONITOR THE STATUS OF THE ASSOCIATED EXHAUST FAN TO DETERMINE ITS OPERATING MODE.
C. THE TERMINAL UNIT CONTROLLER SHALL MONITOR AND REPORT OVER THE NETWORK THE FOLLOWING ITEMS AS A MINIMUM: CONTROL DAMPER STATUS.
D. UPON A LOSS OF CONTROL POWER TO THE CONTROL SYSTEM, THE UNIT SHALL CONTINUE TO OPERATE AND ALL CONTROL POINTS SHALL REMAIN IN THEIR CURRENT POSITIONS.

2. OFF MODE:

A. WHEN THE ASSOCIATED EXHAUST FAN IS IN STOP MODE, THE VAV CONTROL DAMPER SHALL BE IN ITS FULLY OPEN POSITION.

3. OCCUPIED AND UNOCCUPIED MODES OPERATION:

A. OCCUPIED AND UNOCCUPIED OPERATION MODES AE AS INDICATED IN EXAMINER LAB ZONE CONTROLS.

SPACE TEMPERATURE AND HUMIDITY SENSOR (SEE LAB SUPPLY VAV TERMINAL UNIT CONTROL SCHEMATIC)
THE FOLLOWING SHALL BE INCLUDED AND SHOWN IN THE GRAPHIC PACKAGE:
1 - PRIMARY AIR DAMPER ACTUATOR.
2 - PRIMARY AIR FLOW (CFM).
FACTORY MOUNTED DDC CONTROLLER
TO OTHER TERMINAL UNIT CONTROLLERS
TO SUPPLY VAV TERMINAL UNIT CONTROLLER

INSTALLATION NOTES

1. POINT SUMMARY STATES POINTS REQUIRED AND DOES NOT EXCLUDE POINTS LISTED/SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
2. BAS POINT NAMES AND GRAPHICS SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
3. A COPY OF THE FINAL AS-BUILT CONTROL TERMINATION DRAWING, AND RELATED RISER DIAGRAM LAYOUT SHALL RESIDE INSIDE OF ALL BUILDING CONTROLLERS PANEL ENCLOSURES.
4. AIRFLOW STATIONS INSTALLED BY CONTRACTOR SHALL COMPLY WITH MANUFACTURER STRAIGHT DUCT DIAMETERS UPSTREAM TO PROVIDE PROPER FLOW SENSING.
5. PROVIDE MATCHED PAIR TEMPERATURE SENSORS AS REQUIRED BY DIV 25 SPECS.
6. ALL PHYSICAL POINTS FOR THE SYSTEM AND ASSOCIATED EQUIPMENT SHALL BE WIRED TO A SINGLE BAS CONTROLLER.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
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PROJECT NO: 24-0035-00
DATE: 20250308

MECHANICAL CONTROLS

M7.08

DRG REFERENCE

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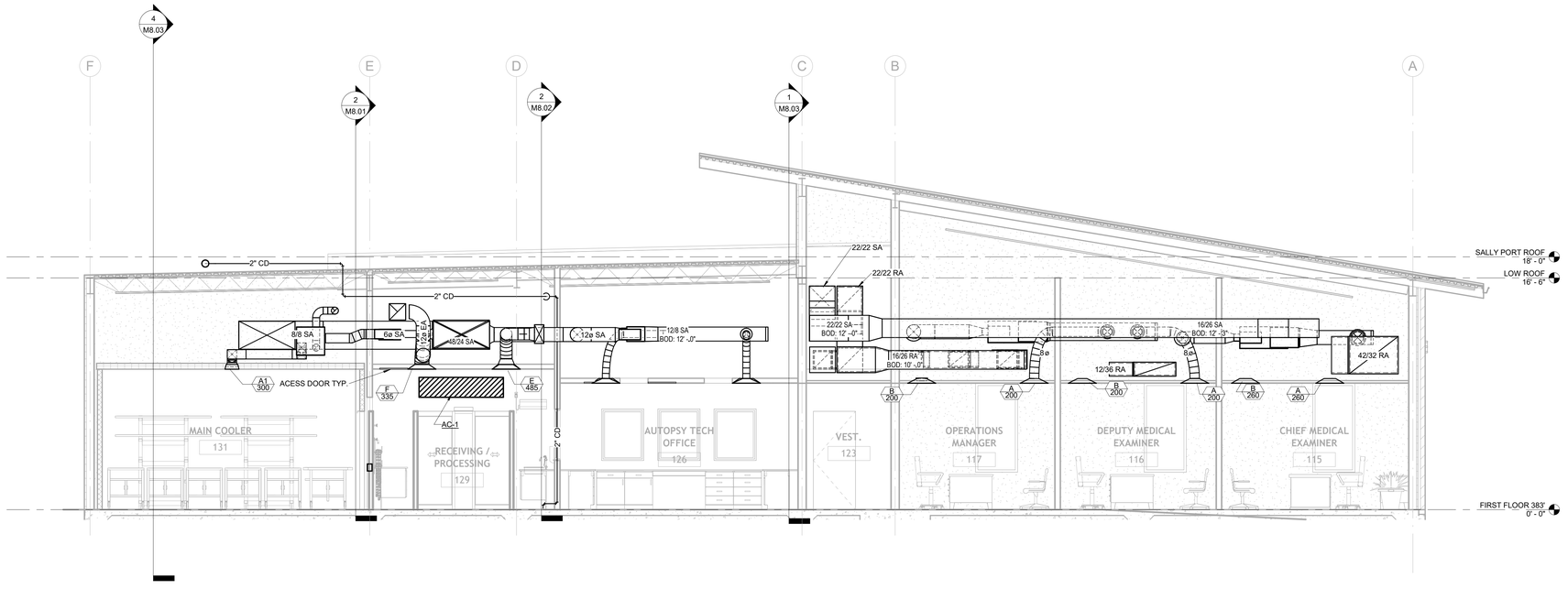
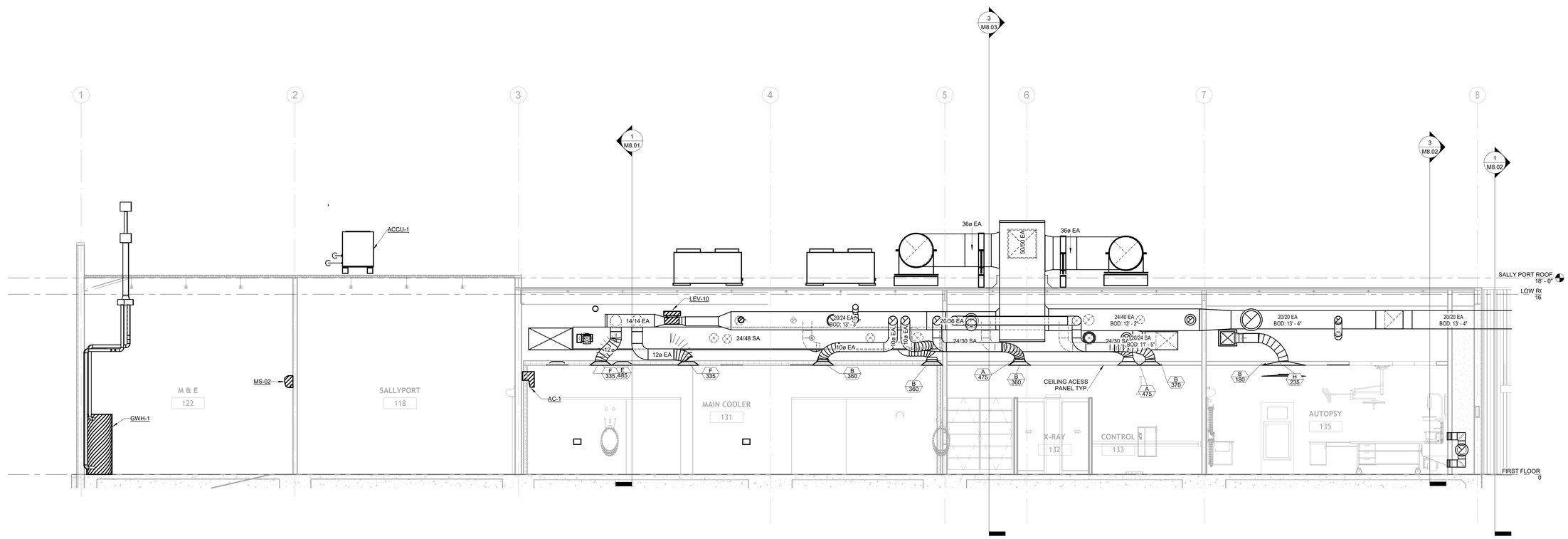


1 OFFICE SECTION - A
1/4" = 1'-0"



2 AUTOPSY SECTION - A
1/4" = 1'-0"

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PROJECT NO: 24-0035-00
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MECHANICAL SECTIONS

M8.01

DRG REFERENCE

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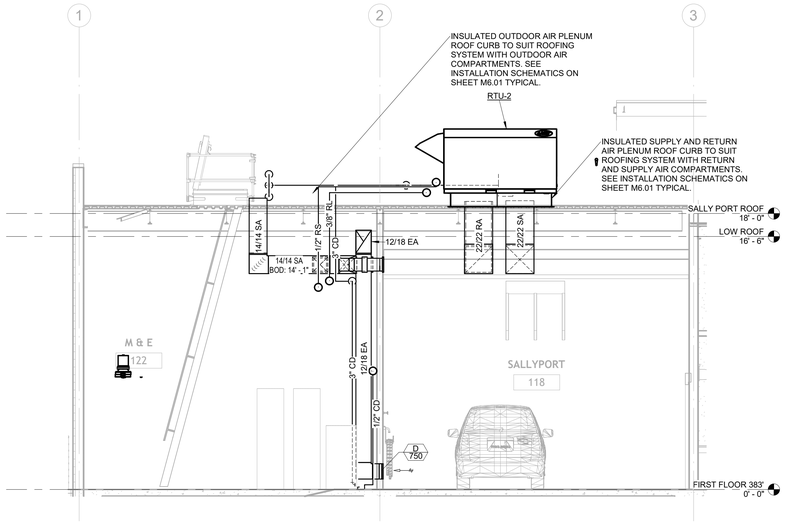
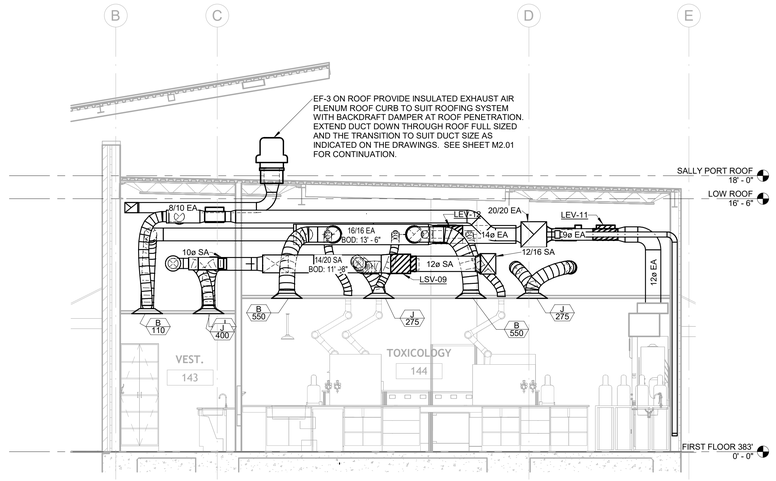
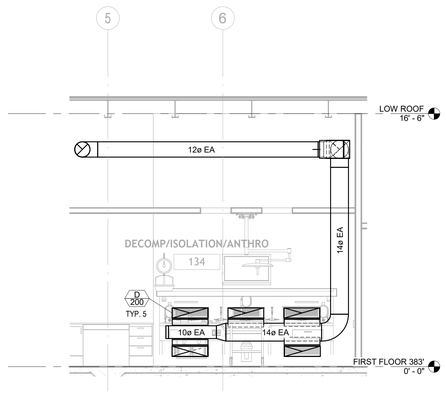


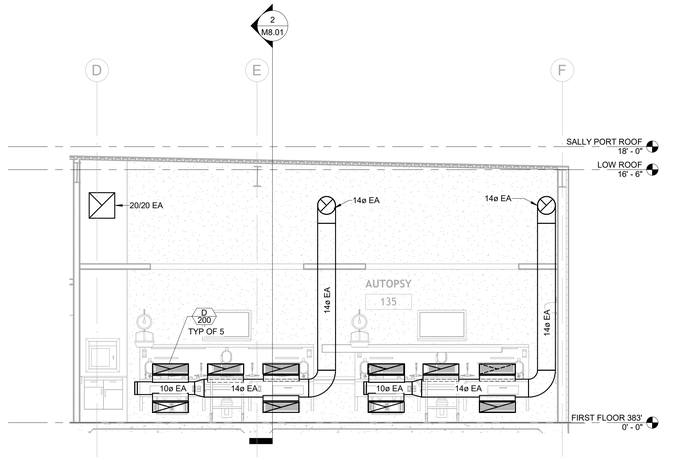
2 SALLYPORT - SECTION A
1/4" = 1'-0"



1 TOXICOLOGY SECTION - A
1/4" = 1'-0"



4 DECOMP SECTION - A
1/4" = 1'-0"



3 AUTOPSY SECTION - B
1/4" = 1'-0"

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DESIGNED BY: JOHNSTON

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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MECHANICAL SECTIONS

M8.02

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License No.: 56118 State of Texas
Date: 03-08-2025
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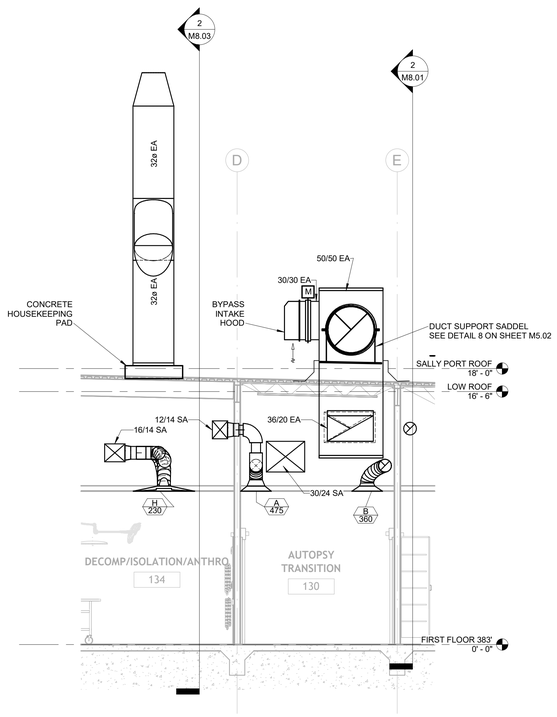
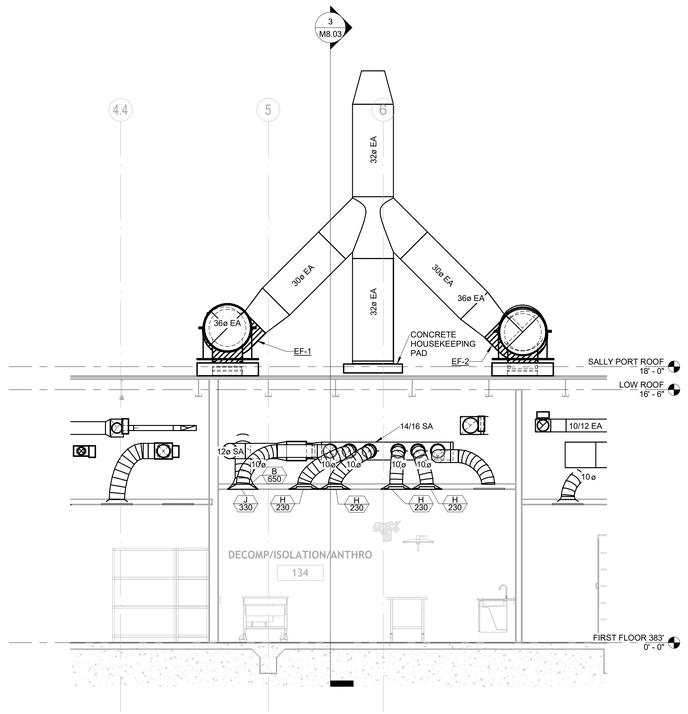
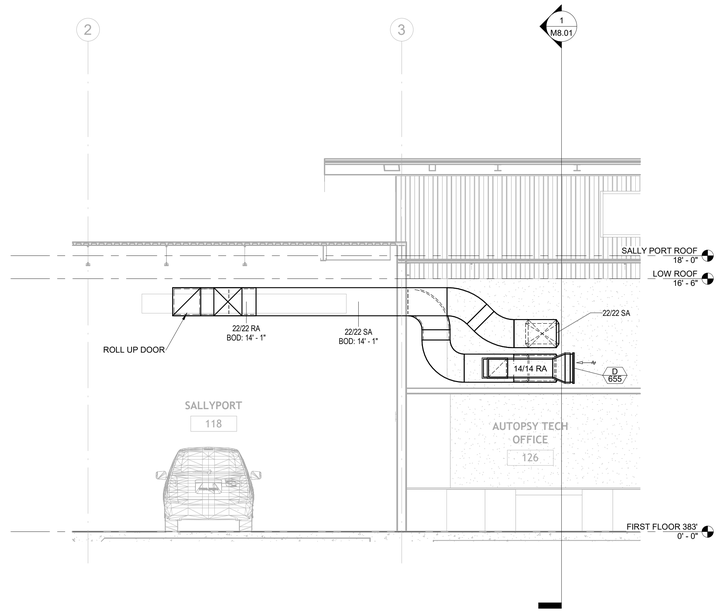


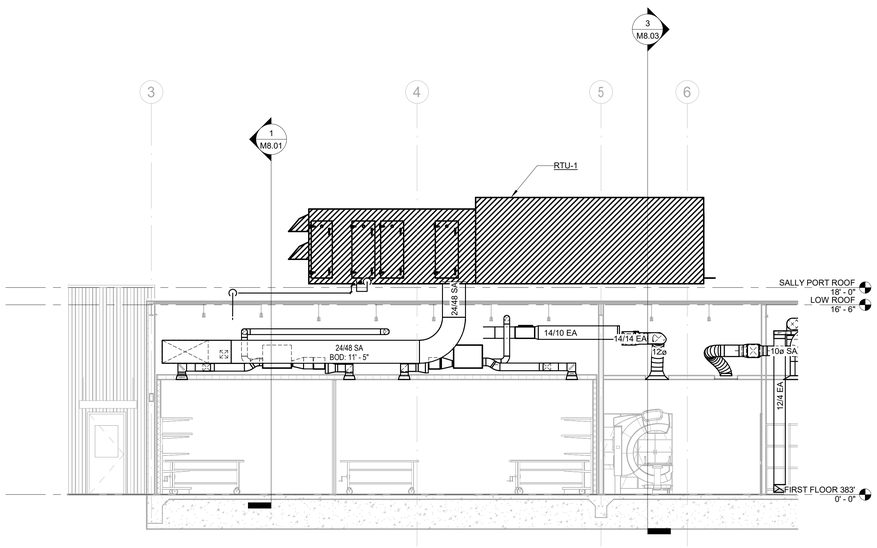
3 AUTOPSY SECTION - C
1/4" = 1'-0"



2 AUTPSY SECTION - D
1/4" = 1'-0"



1 SALLYPORT SECTION - B
1/4" = 1'-0"



4 AUTOPSY SECTION - E
3/16" = 1'-0"

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DESIGNED BY: JOHNSTON

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SUITE 175
SAN ANTONIO, TEXAS 78216
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MECHANICAL SECTIONS

M8.03

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Date: 03-08-2025
JOHNSTON LLC,
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ELECTRICAL GENERAL NOTES

1. DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT BE DRAWN TO SCALE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
2. ALL WORK SHALL BE INSTALLED PER THE APPLICABLE BUILDING CODES THAT ARE CURRENTLY IN EFFECT.
3. ALL CIRCUITS SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED IN ACCORDANCE WITH NEC SECTION 250 OR LARGER IF NOTED.
4. ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS, AND FLOORS DUE TO THE INSTALLATION OF ELECTRICAL SYSTEMS SHALL BE SEALED TO MAINTAIN THE FIRE RATING OF THE WALL.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES AND EXACT LOCATION OF ALL CEILING MOUNTED DEVICES. VERIFY CEILING TYPES WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES TO ENSURE COMPATIBLE FIXTURE TRIMS AND MOUNTING HARDWARE.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS OF THE FOLLOWING ELECTRICAL DEVICES. IF NOT SHOWN ON ARCHITECTURAL DRAWINGS OR INSTRUCTED BY THE ARCHITECT, DEVICES SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS TO CENTER OF BOX:
   - WALL SWITCHES 48" AFF
   - WALL CONVINIENCE RECEPTACLES 18" AFF
   - WALL GFCI RECEPTACLES NEAR SINKS 48" AFF
   - WALL TELEPHONE/DATA OUTLETS 18" AFF
   - MANUAL FIRE ALARM STATIONS 48" AFF
   - AFF = ABOBE FINISHED FLOOR
7. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR EQUIPMENT LOCATIONS, COORDINATE CONNECTION REQUIREMENT FOR EQUIPMENT WITH DIVISION 22/23 AND MANUFACTURER.
9. BRANCH CIRCUITING IS A DIAGRAMMATIC REPRESENTATION OF CIRCUIT LOADING AND CONTROL ONLY. IT IS NOT A METHOD OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS.
10. PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMMODATE CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
11. ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED FOR HIS WORK, AND SHALL PAY ALL FEES IN CONNECTION WITH SUCH PERMITS, LICENSES AND INSPECTIONS.
12. WORK SHALL COMPLY WITH THE MOST RECENT VERSION OF ALL APPLICABLE LAWS, RULES, REGULATIONS, GOVERNING CODES, AND ORDINANCES OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES.
13. DRAWINGS ARE DIAGRAMMATIC; VERIFY DIMENSIONS AND CONDITIONS AT JOB SITE AND FROM ARCHITECTURAL PLANS.
14. IN ADDITION TO ALL WIRING, RACEWAYS AND DEVICES SHOWN HEREIN, ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, RACEWAYS, DEVICES, PULLBOXES, DUCTS, SWITCHES, CIRCUITS BREAKERS AND OTHER ELECTRICAL ITEMS NOT SUPPLIED BY EQUIPMENT VENDORS. REFER TO ELECTRICAL DRAWING AND VENDOR DRAWINGS.
15. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND FUNCTIONAL SYSTEMS BY COORDINATING WORK BETWEEN TRADES. LOW VOLTAGE WIRING AND RELATED CONDUIT MAY BE REQUIRED FOR DIVISION 23 EQUIPMENT. REFER TO DIVISION 26 SPECIFICATIONS.
16. REFER TO LOW VOLTAGE DRAWINGS FOR LOCATIONS OF CABLE TRAY, SLEEVES, HANDHOLES AND ADDITIONAL CONDUITS REQUIRED TO BE FURNISHED BY ELECTRICAL CONTRACTOR.
17. ELECTRICAL CONTRACTOR TO FIELD VERIFY SPACE REQUIREMENTS FOR DISCONNECT SWITCHES, PUMP CONTROL PANELS, VARIABLE FREQUENCY DRIVES (VFD) AND CONDUIT ROUTING PRIOR TO INSTALLATION.
18. REFER TO PANEL SCHEDULES, ONE-LINE DIAGRAMS AND RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES.
19. POWER TO FIRE/SMOKE DAMPERS TO BE BY DIVISION 26. REFER TO PANEL SCHEDULES FOR CIRCUITS PROVIDED FOR DAMPERS.
20. FIRE ALARM DEVICE LAYOUT IS SHOWN FOR COORDINATION ONLY. SUCCESSFUL FIRE ALARM VENDOR SHALL PROVIDE CODE COMPLIANT DEVICE LAYOUT AS A PART OF SUBMITTAL.
21. COORDINATE ROUTING OF CONDUITS INTO MILLWORK ISLANDS WITH MILLWORK PROVIDED.
22. IF VFD'S ARE NOT PROVIDED WITH INTEGRAL DISCONNECTING MEANS PROVIDE DISCONNECT SWITCH AS REQUIRED. DISCONNECT SWITCH SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRES TO SIGNAL SWITCH OPENING.
23. THIS PROJECT INCLUDES AUDIO/VISUAL EQUIPMENT SUPPLIED BY AN A/V EQUIPMENT SUPPLIER. ALL EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION OF THESE SYSTEMS ARE NOT SHOWN ON THESE DRAWINGS. ELECTRICAL CONTRACTOR SHALL OBTAIN THE AUDIO/VISUAL EQUIPMENT INSTALLATION DRAWINGS AND INCLUDE IN HIS SCOPE OF WORK THE EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION OF THESE SYSTEMS.
24. FURNISH AND INSTALL 1" EMPTY CONDUIT WITH PULL CORD, ROUTE UP WALL TO ABOVE CEILING AND BACK TO LOCAL AREA IT/DATA ROOM, FOR ALL NEW TEL/ DATA OUTLETS, UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS FOR LOCATION OF IT/DATA ROOM(S).

FIRE ALARM GENERAL NOTES

1. THE FIRE ALARM PANEL SHALL BE LOCATED IN A CONSTANTLY ATTENDED LOCATION. WHEN THE MAIN FIRE ALARM CONTROL PANEL IS LOCATED IN AN UN-OCCUPIED AREA A REMOTE ANNUNCIATOR PANEL SHALL BE PROVIDED.
2. MANUAL PULL STATIONS SHALL BE LOCATED WITHIN 5' OF EGRESS DOORS, WHERE REQUIRED BY THE IBC/IFC CODES AND PER NFPA-72.
3. PROVIDE POWER SUPPLIES FOR NAC CIRCUITS WHEN REQUIRED. LOCATE THE POWER SUPPLY IN COMMON ELECTRICAL ROOMS FOR ACCESS TO MAINTENANCE AND SERVICE PERSONNEL. INSTALL U.L. LISTED SURGE PROTECTION ON THE DEDICATED 120VAC CIRCUIT FOR EACH POWER SUPPLY PANEL.
4. ALL STROBES TO BE 15 CANDELA UNLESS OTHERWISE NOTED.
5. FURNISH AND INSTALL DUCT MOUNTED SMOKE DETECTION ON HVAC UNITS OVER 2000 CFM. REFER TO THE MECHANICAL PLANS AND SCHEDULE FOR EXACT LOCATIONS AND QUANTITIES.
6. ALL CONDUIT STUBS SHALL BE PROVIDED WITH INSULATED THROAT CONNECTORS TO PROTECT FIRE ALARM CABLES. COORDINATE ALL ROUGH-IN REQUIREMENTS WITH THE MANUFACTURER'S INSTALLATION SHEETS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR THE INSTALLATION OF ALL CONDUIT WITH PULL STRINGS, FITTINGS, ALL STANDARD ELECTRICAL BOXES WITH GROMMETS, PENETRATIONS, FIREPROOFING, MOUNTING OF BACK BOXES, AND CONDUIT FOR FIRE ALARM POWER SUPPLIES, AND CONNECTION TO ALL NON-LOW VOLTAGE DEVICES.
8. ALL CONDUIT SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A CONDUIT RACEWAY IN EACH MECHANICAL, ELECTRICAL, TELEPHONE AND ANY OTHER AREA WHERE THE FIRE ALARM WIRING MIGHT BE SUBJECT TO DAMAGE.
9. ALL PLENUM WIRING IS TO BE INSTALLED PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE. INSTALL WIRING TIGHT UP AGAINST THE STRUCTURE FOR PROTECTION. CABLE SHALL BE BUNDLED WITH CABLE TIES AND SECURED TO THE STRUCTURE AT A MAXIMUM OF 8' ON CENTER. CABLE SHALL NOT LIE ON CEILING GRID OR CEILING TILE.
10. ONLY POWER-LIMITED FIRE ALARM CABLES SHALL BE ALLOWED IN RACEWAYS DESIGNATED FOR FIRE ALARM SYSTEM.
11. THE FIRE ALARM SYSTEM DESIGN SHALL MEET ALL APPLICABLE CODES AND STANDARDS AS ADOPTED BY THE STATE AND LOCAL AHJ AND THEIR AMENDMENTS.
12. FIRE ALARM DRAWINGS SHOULD BE SUBMITTED DIECTLY TO FIRE MARSHAL'S OFFICE AT https://weblink.bryantx.gov/Forms/FMOFireProtSys

NOTE TO FIRE ALARM CONTRACTOR

BIDDING FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FIXED COST TO PROVIDE A WORKING, NFPA AND APPROVED FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM SHALL INCLUDE ANY ADDITIONAL DEVICE REQUIRED THAT ARE NOT SHOWN ON THE CONSTRUCTION DOCUMENTS. MODIFICATIONS OF THE EXISTING F.A.C.P., AND OR INSTALLATION OF NEW PANEL, BOOSTER PANEL ETC. IT IS RECOMMENDED THAT THE FIRE ALARM CONTRACTOR VISIT THE JOB SITE PRIOR TO SUBMITTING A BID IN ORDER TO VERIFY THE CONDITION OF THE EXISTING SYSTEM. NO ADDITIONAL COST WILL BE ACCEPTED AFTER SUBMISSION OF BID.

ELECTRICAL ABBREVIATIONS

ABBR.	DEFINITION	ABBR.	DEFINITION
A	AMPERE	KV	KILOVOLT
AAP	AREA ALARM PANEL	KVA	KILOVOLT-AMPERE
AF	AMPERE FUSE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LS	LIFE SAFETY
AHU	AIR HANDLING UNIT	LTG	LIGHTING
KAIC	AMPS INTERRUPTING CAPACITY x1000	MAX	MAXIMUM
AT	AMPERE TRIP	MCB	MAIN CIRCUIT BREAKER
ANN	ANNUNCIATOR	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MCM	CIRCULAR MILS, THOUSANDS
AWG	AMERICAN WIRE GAUGE	MGAP	MEDICAL GAS ALARM PANEL
C	CONDUIT	MLO	MAIN LUGS ONLY
CAB	CABINET	MTD	MOUNTED
CB	CIRCUIT BREAKER	MTG	MOUNTING
CKT	CIRCUIT	MVT	MEDIUM VOLTAGE TRANSFORMER
CLG	CEILING	MW	MICROWAVE
CL	CENTER LINE	NEC	NATIONAL ELECTRICAL CODE
CM	COFFEE MAKER	NTS	NOT TO SCALE
CR	CRITICAL	PNL	PANEL
CT	CURRENT TRANSFORMER	PH	PHASE
CU	COPPER	P	POLE
DEMO	DEMOLISH	PA	PUBLIC ADDRESS
DISC	DISCONNECT	PC	PERSONAL COMPUTER
DN	DOWN	REF	REFRIGERATOR
DWG	DRAWING	SPD	SURGE PROTECTIVE DEVICE
EA	EACH	SPEC	SPECIFICATION
EDF	ELECTRIC DRINKING FOUNTAIN	SUSP	SUSPENDED
EF	EXHAUST FAN	SWBD	SWITCHBOARD
EX	EXISTING	TEL	TELEPHONE
FA	FIRE ALARM	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	UC	UNDER COUNTER
FCU	FAN COIL UNIT	UH	UNIT HEATER
FLA	FULL LOAD AMPS	UON	UNLESS OTHERWISE NOTED
FRZ	FREEZER	V	VOLT
GF	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLTAMPERE
GND	GROUND	W	WATT
HP	HORSE POWER	WP	WEATHER-PROOF
IG	ISOLATED GROUND	XFMR	TRANSFORMER
JB	JUNCTION BOX		
(S.C.)	SHARED CIRCUIT		
PL	PILOT LIGHT SWITCH		

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
POWER	
	LIGHTING OR POWER CIRCUIT. ARROW INDICATES HOME RUN, LONGER TICK INDICATES NEUTRAL WIRE, SHORTER STRAIGHT TICK INDICATES PHASE WIRE, SLANTED SHORTER TICK INDICATES SWITCH LEG, DOT INDICATES GROUNDING CONDUCTOR, DASHED WIRING INDICATES WIRING IN OR BELOW SLAB OR GRADE, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT. "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT: PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR OR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF NINE THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED PER THE NEC.
	PARTIAL LIGHTING / POWER CIRCUIT.
	DUPLEX CONVENIENCE RECEPTACLE, 20A, 120 VOLT, UNLESS OTHERWISE NOTED."GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER, "IG" INDICATES ISOLATED GROUND.
	CRITICAL DUPLEX CONVENIENCE RECEPTACLE, 20A, 120 VOLT, UNLESS OTHERWISE NOTED. "GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER, "IG" INDICATES ISOLATED GROUND.
	QUADRAPLEX CONVENIENCE RECEPTACLE, 2- 20 A, 120 VOLT, UNLESS OTHERWISE NOTED.
	SPECIAL PURPOSE POWER RECEPTACLE, NEMA RATING AS INDICATED.
	FLOOR RECEPTACLE, 20A, 120 VOLT, UNLESS OTHERWISE NOTED.
	POKE THRU FLOOR RECEPTACLE, 20A, 120 VOLT, UNLESS OTHERWISE NOTED.
J	JUNCTION BOX.
RW	ELECTRICAL RACEWAY WITH INTEGRATED RECEPTACLE(S).
60A/60/3 N4X	DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED. "NF" INDICATES NON-FUSIBLE, PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS CONNECTED TO BUSWAY. NEMA 1 INDOOR, UNLESS OTHERWISE NOTED.
CB	ENCLOSED CIRCUIT BREAKER. NEMA 1 INDOOR, UNLESS OTHERWISE NOTED.
T	TRANSFORMER.
	PANELBOARD.
	DISTRIBUTION PANEL.
GB	GROUNDING BUS.
VFD	VARIABLE FREQUENCY DRIVE SUPPLIED BY DIVISION 23.
SPD	SURGE PROTECTION DEVICE.
C	INDICATES ELECTRICAL DEVICE ON CRITICAL BRANCH.
LS	INDICATES ELECTRICAL DEVICE ON LIFE SAFETY BRANCH.
EQ	INDICATES ELECTRICAL DEVICE ON EQUIPMENT BRANCH.
FIRE ALARM	
F	FIRE ALARM MANUAL PULL STATION, SURFACE MOUNTED 48"AFF.
15cd	COMBINATION AUDIO (SPEAKER) AND VISUAL FIRE ALARM, CEILING MOUNTED. CANDELA AS INDICATED.
15cd	VISUAL FIRE ALARM STROBE LIGHT, CEILING MOUNTED. CANDELA AS INDICATED.
15cd	COMBINATION AUDIO (SPEAKER) AND VISUAL FIRE ALARM, WALL MOUNTED AT 80"AFF. CANDELA AS INDICATED.
15cd	VISUAL FIRE ALARM STROBE LIGHT, WALL MOUNTED AT 80"AFF. CANDELA AS INDICATED.
	MAGNETIC DOOR HOLDER.
S	FIRE ALARM SMOKE DETECTOR.
H	HEAT DETECTOR.
HO	SECURITY SYSTEM HOLD OPEN BY OTHERS. WIRE AND CONNECT TO FIRE ALARM SYSTEM SO THAT DOORS UNLOCK UPON ACTIVATION.
DD S	DUCT SMOKE DETECTOR - SUPPLY DUCT.
DD R	DUCT SMOKE DETECTOR - RETURN DUCT.
R	FIRE ALARM RELAY.
FACP	FIRE ALARM CONTROL PANEL.
FARP	FIRE ALARM RELAY PANEL.
FAAP	FIRE ALARM ANNUNCIATOR PANEL.
FS	FIRE SPRINKLER FLOW SWITCH.
TS	FIRE SPRINKLER TAMPER SWITCH.
SCP	SMOKE CONTROL OVERRIDE PANEL.
RTU	REMOTE TERMINAL UNIT.

SYMBOL	DESCRIPTION
LIGHTING	
LCP	LIGHTING CONTROL PANEL.
LC	LIGHTING CONTACTOR.
	EMERGENCY EXIT LIGHT FIXTURE, LETTER INDICATES LIGHT FIXTURE TYPE, ARROW OR ARROWS INDICATE EXIT PATHWAYS PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS.
	LIGHT FIXTURE, LETTER INDICATES LIGHT FIXTURE TYPE. (REFER TO FIXTURE SCHEDULE FOR TYPE).
	WALL MOUNT FIXTURE.
	EMERGENCY LIGHT FIXTURE. LETTER INDICATES LIGHT FIXTURE TYPE. (REFER TO FIXTURE SCHEDULE FOR TYPE).
	EMERGENCY WALL MOUNT FIXTURE.
	LIFE SAFETY LIGHT FIXTURE, LETTER INDICATES LIGHT FIXTURE TYPE. (REFER TO FIXTURE SCHEDULE FOR TYPE).
	LIFE SAFETY WALL MOUNT FIXTURE.
SWITCHES	
$	SINGLE POLE SWITCH.
$3	THREE WAY SWITCH.
$4	FOUR WAY SWITCH.
$D	DIMMER SWITCH.
$M	MOTOR RATED SWITCH.
$WP	WEATHERPROOF SWITCH.
OS V	WALL OCCUPANCY/ VACANCY SENSOR SWITCH.
OS	WALL OCCUPANCY SENSOR SWITCH.
OS V	WALL OCCUPANCY SENSOR WITH DIMMING SWITCH.
OS	CEILING MOUNTED OCCUPANCY SENSOR.
OS D	CEILING MOUNTED OCCUPANCY SENSOR WITH DAYLIGHT HARVESTING.
$K	KEY OPERATED SWITCH.
$PB	PUSH BUTTON SWITCH.
$PL	PILOT LIGHT SWITCH.
P	NEW POWER PACK FOR CEILING OCCUPANCY SENSOR MOUNTED ABOVE ACCESSIBLE CEILING ON JUNCTION BOX. WIRE AND CONNECT TO CEILING OCCUPANCY SENSOR.
PC	NEW 277V EXTERIOR RATED PHOTOCELL.
EPO	EMERGENCY POWER OFF.
LOW VOLTAGE	
	WALL TELEPHONE OUTLET MOUNTED 18" AFF, UNLESS OTHERWISE NOTED.
	WALL DATA OUTLET MOUNTED 18" AFF, UNLESS OTHERWISE NOTED.
	COMBINATION TELEPHONE/DATA OUTLET MOUNTED 18" AFF, UNLESS OTHERWISE NOTED.
	TELEPHONE AND/OR NETWORK BACKBOARD, 4' x 8' x 3/4" THICK FIRE RATED PLYWOOD PAINTED GRAY.
CR	CARD READER BACK BOX MOUNTED AT 48" AFF. INSTALL 3/4" EMPTY CONDUIT WITH PULL CORD TO ABOVE CEILING SPACE.
SIC	SECURITY INTERCOM STATION CALL BUTTON/SPEAKER.
S	SECURITY INTERCOM PAGING SPEAKER SURFACE MOUNTED.
S	SECURITY INTERCOM 2-WAY TALK BACK SPEAKER SURFACE MOUNTED.

NOTE: NOT ALL SYMBOLS TABULATED ABOVE ARE NECESSARILY USED ON THE DRAWINGS.

NEW LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL	WATT/LAMP	MOUNTING	VOLTAGE	COMMENTS
A1	FLUXWERX	RA1 22 B 40 90 F2 M	LED/28 VA	RECESSED	UNV	
A1F	FLUXWERX	RA1 22 B 40 90 F2 M / DGA22	LED/28 VA	RECESSED	UNV	
A2	FLUXWERX	RA1 22 B 40 90 F2 M	LED/35 VA	RECESSED	UNV	
AW6	LITHONIA	CPXIP 2X2 6000LM 90 50K ASWM MVOLT / DGA22	LED/55 VA	RECESSED	UNV	
B1	LITHONIA	CPX 2X2 4000LM 90CRI 40K SWL MIN10 ZT MVOLT	LED/37 VA	RECESSED	UNV	
B1F	LITHONIA	CPX 2X2 4000LM 90CRI 40K SWL MIN10 ZT MVOLT / DGA22	LED/37 VA	RECESSED	UNV	
B2	LITHONIA	CPX 2X2 6000LM 90CRI 40K SWL MIN10 ZT MVOLT	LED/55 VA	RECESSED	UNV	
B2F	LITHONIA	CPX 2X2 6000LM 90CRI 40K SWL MIN10 ZT MVOLT / DGA22	LED/55 VA	RECESSED	UNV	
C	GOTHAM	EVO6 40/15 AR WD LSS MVOLT GZ10 TRW	LED/30 VA	RECESSED	UNV	
G	PRUDENTIAL	BPRO4 LIN FLSH LED5-90 HO 4 TMW BTW SC UNV CA48 XX DM01	LED/42 VA	SUSPENDED	UNV	
M4	LITHONIA	CSS L48 4000LM MVOLT 40K 90CRI HC36	LED/35 VA	SUSPENDED	UNV	
M4-9	LITHONIA	CLX L48 9000LM SEF RDL MVOLT 40K 90CRI	LED/63 VA	SUSPENDED	UNV	
SP	LITHONIA	CNY LED ALO SWW2 UVOLT PE PIR DDB M2	LED/75 VA	SURFACE	UNV	
WP	LITHONIA	WDGE1 LED P2 35K 80CRI VF MVOLT	LED/50 VA	SURFACE	UNV	
X1	LITHONIA	EDG/EDGR-X-R-277	LED/5 VA	SURFACE	UNV	BACK MOUNT SINGLE FACE
X2	LITHONIA	EDG/EDGR-X-R-277-CH20A	LED/5 VA	SURFACE	UNV	END MOUNT DOUBLE FACE

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E0.00	ELECTRICAL LEGEND INDEX AND NOTES
E1.01	ELECTRICAL SITE PLAN
E2.01	ELECTRICAL LIGHTING PLAN
E3.01	ELECTRICAL POWER PLAN
E3.02	ELECTRICAL POWER ROOF PLAN
E4.01	ELECTRICAL EQUIPMENT PLAN
E5.01	ELECTRICAL ENLARGED PLANS
E5.02	ELECTRICAL ENLARGED PLANS TOXICOLOGY
E6.01	ELECTRICAL ONE-LINE DIAGRAMS
E7.01	ELECTRICAL PANEL SCHEDULES
E7.02	ELECTRICAL PANEL SCHEDULES
E8.01	ELECTRICAL DETAILS
E8.02	ELECTRICAL DETAILS

IECC-2015

IECC - 2015
C408.3 LIGHTING SYSTEM FUNCTIONAL TESTING. CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH THIS SECTION.

C408.3.1 FUNCTIONAL TESTING.
PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE.

C408.3.1.1 OCCUPANT SENSOR CONTROLS.
WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
1. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
3. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
3.1. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
3.2. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
3.3. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
3.4. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
3.5. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

C408.3.1.2 TIME-SWITCH CONTROLS.
WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

1. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
2. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
3. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
4. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
5. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
6. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
6.1. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
6.2. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
7. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
7.1. NONEXEMPT LIGHTING TURNS OFF.
7.2. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.
8. ADDITIONAL TESTING AS SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL.

C408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS.
WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:
1. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SETPOINTS AND THRESHOLD LIGHT LEVELS.
2. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
3. THE LOCATIONS OF CALIBRATION ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

C408.3.2 DOCUMENTATION REQUIREMENTS.
THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF SECTION C405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL LEGEND INDEX AND NOTES

E0.00

DRG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: Thomas M. Divine III, P.E.
License No.: 66402 State of Texas
Date: 02/28/2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 11:27:54 AM

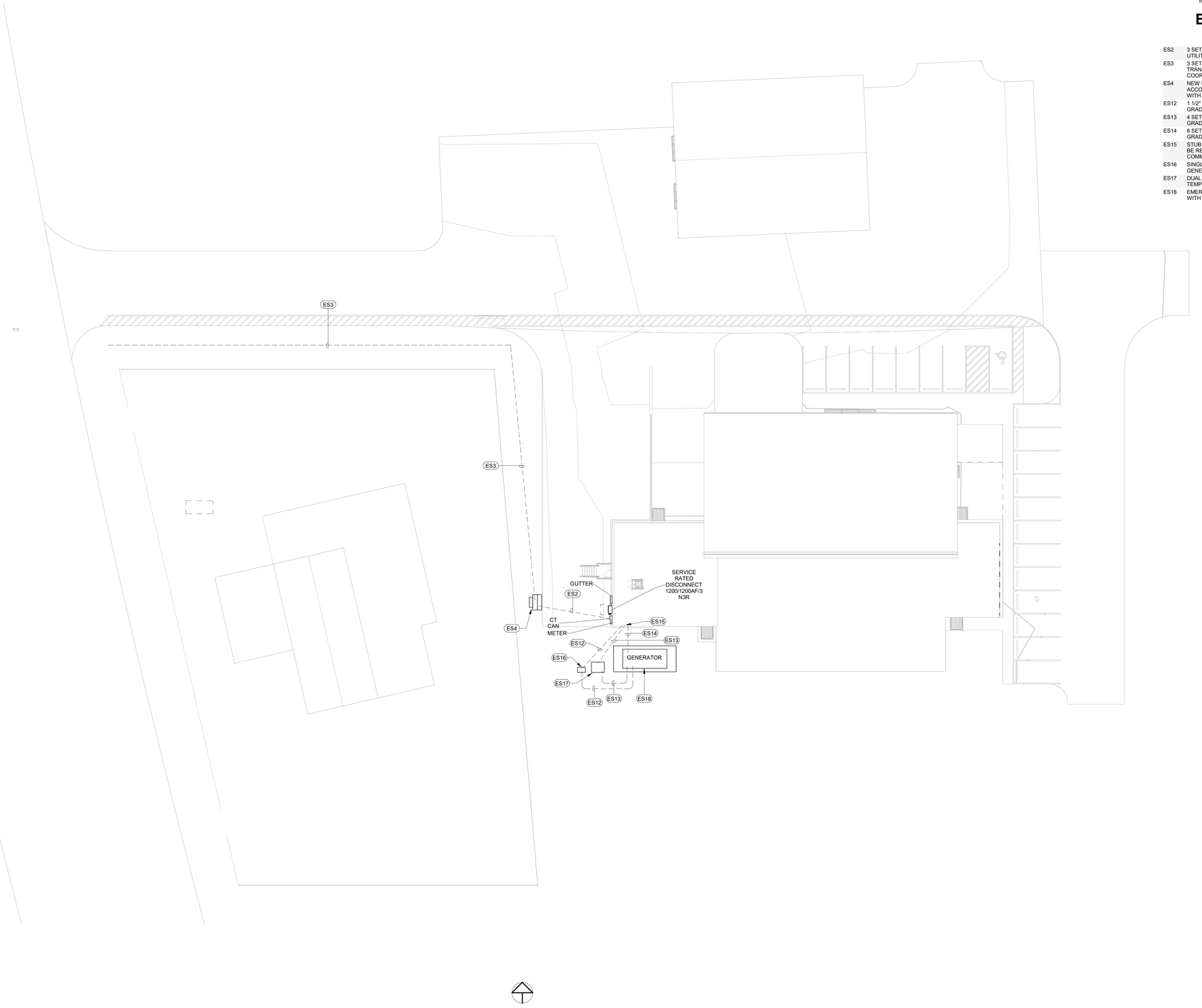
SHEET NOTES

1. INSTALL ELECTRICAL SERVICE ARRANGEMENTS IN ACCORDANCE WITH ELECTRIC UTILITY SERVICE STANDARDS. COORDINATE INSTALLATION WITH ELECTRIC UTILITY.

ELECTRICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

ES2	3 SETS 4" SCHEDULE 40 PVC COORDINATE REQUIREMENTS WITH ELECTRIC UTILITY.
ES3	3 SETS 2" SCHEDULE 40 PVC IN CONDUIT FROM NEW UTILITY POLE TO UTILITY TRANSFORMER. STUB INTO TRANSFORMER PRIMARY COMPARTMENT. COORDINATE REQUIREMENTS WITH ELECTRIC UTILITY.
ES4	NEW UTILITY PAD MOUNT TRANSFORMER. PROVIDE CONCRETE PAD IN ACCORDANCE WITH UTILITY REQUIREMENTS. COORDINATE REQUIREMENTS WITH ELECTRIC UTILITY.
ES12	1 1/2" SCHEDULE 40 PVC CONDUIT BURIED IN EARTH AT 30" BELOW FINISHED GRADE TO TOP OF CONDUIT.
ES13	4 SETS 4" SCHEDULE 40 PVC CONDUIT BURIED IN EARTH AT 30" BELOW FINISHED GRADE TO TOP OF CONDUIT.
ES14	6 SETS 1" SCHEDULE 40 PVC CONDUIT BURIED IN EARTH AT 30" BELOW FINISHED GRADE TO TOP OF CONDUIT.
ES15	STUB UP CONDUITS INSIDE BUILDING ADJACENT TO WALL. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FOUNDATION ELEMENTS PRIOR TO COMMENCING ANY WORK.
ES16	SINGLE FUNCTION GENERATOR DOCKING STATION, WITH TEMPORARY GENERATOR PORT, RATED 100A. TRYSTAR OR EQUIVALENT.
ES17	DUAL FUNCTION GENERATOR DOCKING STATION, WITH LOAD BANK PORT AND TEMPORARY GENERATOR PORT, RATED 1200A. TRYSTAR OR EQUIVALENT.
ES18	EMERGENCY ENGINE GENERATOR, 750 KW / 938 KVA, 480Y/277V, 3PH, 4W, DIESEL WITH SUB-BASE TANK, WITH WEATHERPROOF HOUSING



1 ELECTRICAL SITE PLAN
1/16" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL SITE PLAN

E1.01

DRG REFERENCE

INTERIM REVIEW
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Engineer: Thomas M. Divine III, P.E.
License No.: 66402 State of Texas
Date: 02/28/2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

2/28/2025 11:27:56 AM

SHEET NOTES

1. CONTRACTOR SHALL VERIFY LIGHTING FIXTURE QUANTITY AND FIXTURE TYPE WITH ARCHITECTURAL RCP DRAWINGS.
2. ALL LIGHT FIXTURES SHALL BE CONTROLLED BY DIGITAL SWITCHES, DIGITAL OCCUPANCY SENSORS AND RELAY PANEL UNLESS OTHERWISE NOTED. LIGHTING CONTROL DEVICES ARE POWERED BY A POWER PACK OR LIGHTING BRIDGE.
3. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE.
4. PROVIDE CONDUIT SEALS AT EXTERIOR FIXTURES TO PREVENT INTRUSION OF OUTSIDE AIR.

ELECTRICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

EL3 INTERIOR COOLER LIGHTS FIXTURE AND ELECTRICAL CONNECTIONS BY OTHERS.
EL5 LIGHT FIXTURE SHALL BE MOUNTED ABOVE MAIN COOLER. LIGHT FIXTURE PLACEMENT SHALL BE COORDINATE WITH ALL MECHANICAL EQUIPMENT AND DUCTWORK.

1 ELECTRICAL LIGHTING PLAN - FIRST FLOOR - OVERALL
3/16" = 1'-0"

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
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TBPE FIRM REGISTRATION #: F-421

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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL LIGHTING PLAN

E2.01

DRG REFERENCE

INTERIM REVIEW
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Engineer: Thomas M. Divine III, P.E.
License No.: 66402 State of Texas
Date: 02/28/2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 11:28:03 AM

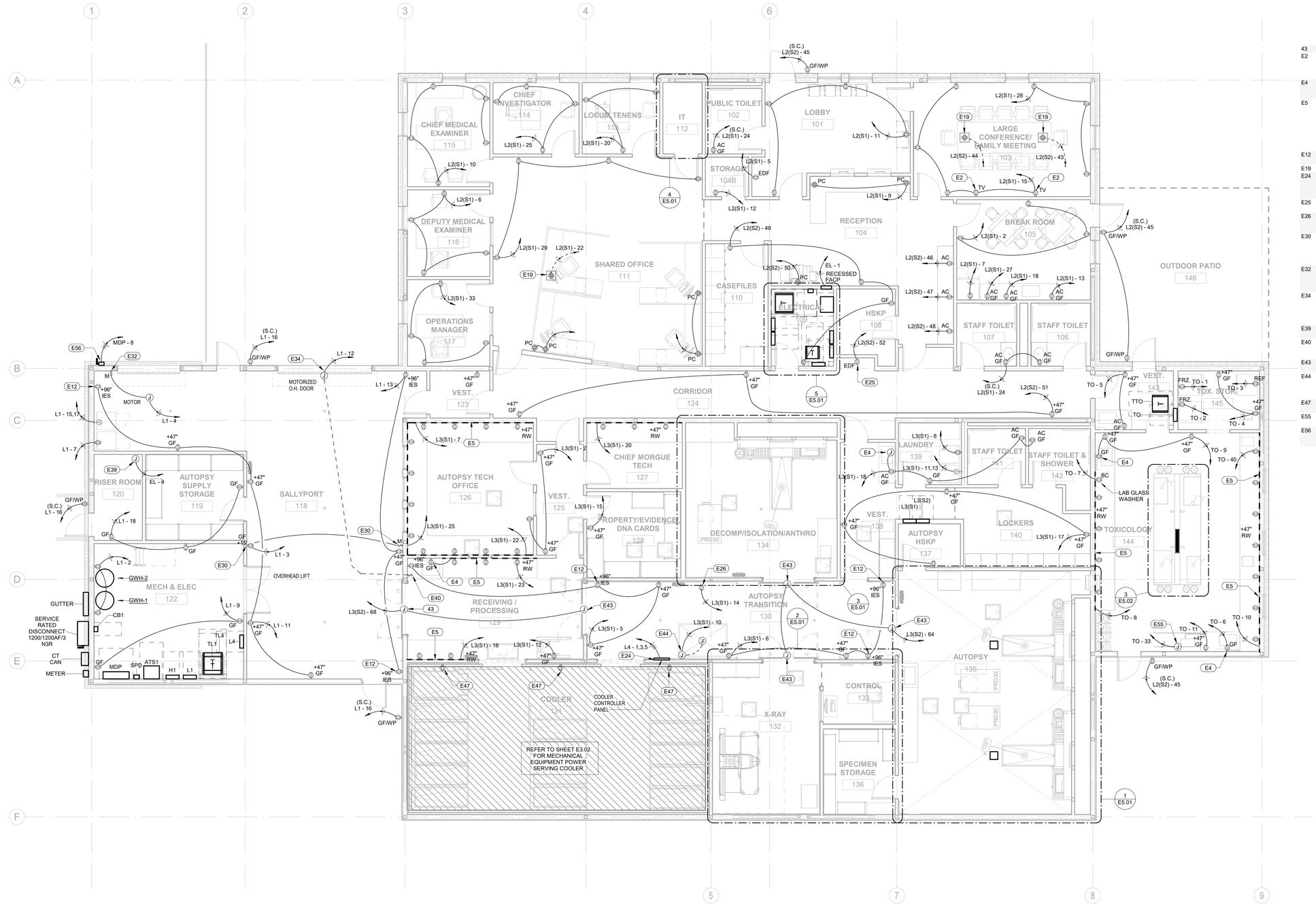
SHEET NOTES

1. CONTRACTOR SHALL REFERENCE TECHNOLOGY, SECURITY AND A/V DRAWINGS FOR ALL ELECTRICAL BACK BOXES AND CONDUIT REQUIREMENTS.
2. FOR ALL MEP EQUIPMENT CONNECTIONS WITHIN THE AUTOPSY SPACES, COORDINATE EXACT CONNECTION REQUIREMENTS WITH AUTOPSY EQUIPMENT SCHEDULE AND SPECIFICATION BOOK PROVIDED BY ARCHITECT.
3. ALL UNDERGROUND CONDUITS BENEATH THE BUILDING FOOTPRINT MUST BE SUSPENDED TO THE SLAB WITH THE USE OF SUPER-VOID SYSTEMS. REFER TO DETAILS 1 AND 4 - 1E9.03 FOR MORE INFORMATION.
4. PROVIDE CONDUIT SEALS AT EXTERIOR DEVICE CONNECTIONS TO PREVENT INTRUSION OF OUTSIDE AIR.

ELECTRICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

43	
E2	CONTRACTOR SHALL PROVIDE POWER TO IN-WALL BOX FOR TELEVISION MONITOR. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION REQUIREMENTS AND MOUNTING HEIGHTS WITH LOW VOLTAGE CONSULTANT DRAWINGS PRIOR TO ROUGH-IN.
E4	CONTRACTOR SHALL PROVIDE POWER FOR PLUG-IN FAUCET INFRARED SENSOR FOR AUTOMATIC CONTROLS. COORDINATE J-BOX 18" A.F.F. CONFIRM LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
E5	CONTRACTOR SHALL PROVIDE ALUMINUM RACEWAY ABOVE COUNTERTOP. RECEPTACLES SHOWN INDICATE THE QUANTITY OF ELECTRICAL DEVICE PER RACEWAY. CONTRACTOR SHALL COORDINATE ADDITIONAL LOW VOLTAGE DEVICES REQUIRED PER RACEWAY. RACEWAY RECEPTACLES AND DEVICES SHALL BE GRAY COLOR. CONTRACTOR SHALL ROUTE POWER IN THE BOTTOM CHANNEL AND DATA IN THE TOP CHANNEL OF THE RACEWAY. CONTRACTOR SHALL VERIFY LOCATION AND HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
E12	CONTRACTOR SHALL PROVIDE POWER TO INSECT ELIMINATOR (IES) MOUNTED +96" A.F.F. CONTRACTOR EXACT LOCATION WITH LAB PLANS PRIOR TO ROUGH-IN.
E19	CONTRACTOR SHALL PROVIDE FLOOR BOX IN CENTER OF CONFERENCE ROOM
E24	CONTRACTOR SHALL PROVIDE POWER TO BODY COOLER. CONTRACTOR SHALL PROVIDE A SINGLE POINT OF CONNECTION TO COOLER CONTROLLER. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION AND POWER REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
E25	CONTRACTOR SHALL PROVIDE POWER TO BOTTLE FILLER STATION. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH MANUFACTURE PRIOR TO ROUGH-IN.
E26	PROVIDE RECEPTACLE IN CENTER OF CEILING TILE FOR CEILING MOUNTED A/V CAMERA. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECT CONTRACTOR PRIOR TO ROUGH-IN.
E30	CONTRACTOR SHALL PROVIDE POWER FOR OVERHEAD LIFT. CONTRACTOR SHALL COORDINATE HEIGHT AND LOCATION OF RECEPTACLE PRIOR TO ROUGH-IN. CONTRACTOR SHALL PROVIDE A SWITCH FOR EMERGENCY SHUT OFF. COORDINATE LOCATION OF SWITCH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
E32	CONTRACTOR SHALL PROVIDE POWER TO MOTORIZED OVERHEAD DOOR. CONTRACTOR SHALL COORDINATE CONTROL SWITCH LOCATION WITH ARCHITECT PRIOR TO INSTALL. CONTRACTOR SHALL COORDINATE CIRCUIT AND BREAKER SIZE WITH EQUIPMENT THAT IS ULTIMATELY SUPPLIED.
E34	CONTRACTOR SHALL PROVIDE POWER TO MOTORIZED OVERHEAD DOOR. CONTRACTOR SHALL INSTALL OPERATING SWITCH IN AUTOPSY TECH ROOM. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT / OWNER PRIOR TO INSTALL. CONTRACTOR SHALL COORDINATE CIRCUIT AND BREAKER SIZE WITH EQUIPMENT THAT IS ULTIMATELY SUPPLIED.
E39	J-BOX FOR FIRE RISER. COORDINATE ALL REQUIREMENTS WITH FIRE SPRINKLER CONSULTANT AND LOCAL AHJ.
E40	APPROXIMATE LOCATION OF OVERHEAD DOOR REMOTE CONTROL SWITCHES. CONTRACTOR SHALL ROUTE 2#12, 1#12G IN 3/4"C TO OVERHEAD DOORS LOCATED IN SALLYPORT.
E43	J-BOX FOR ELECTRIC DOOR. COORDINATE ELECTRICAL CONNECTIONS WITH DOOR EQUIPMENT AND DOOR HARDWARE.
E44	J-BOX FOR SCALE. PROVIDE BOX AT SCALE INDICATOR AND PROVIDE AN ADDITIONAL 3/4" CONDUIT WITH PULLSTRING FROM SCALE INDICATOR TO SCALE PIT. COORDINATE ALL REQUIRED ELECTRICAL CONNECTIONS AND LOCATIONS WITH EQUIPMENT PRIOR TO COMMENCING ANY ROUGH-INS.
E47	RECEPTACLES SHALL BE MOUNTED ABOVE COOLER FOR MAINTENANCE. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS.
E55	J-BOX FOR FUME HOOD. CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIRED ELECTRICAL CONNECTIONS.
E56	DISCONNECT FOR TRAILER COOLER PAINT TO MATCH EXTERIOR FINISH . COORDINATE EXACT LOCATION PRIOR TO COMMENCING ANY WORK.



1 ELECTRICAL POWER PLAN - FIRST FLOOR - OVERALL
3/16" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

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Engineer: Thomas M. Divine III, P.E.
License No.: 66402 State of Texas
Date: 02/28/2025
JOHNSTON LLC, TBPE FIRM REGISTRATION NO. F-421

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

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PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL POWER PLAN

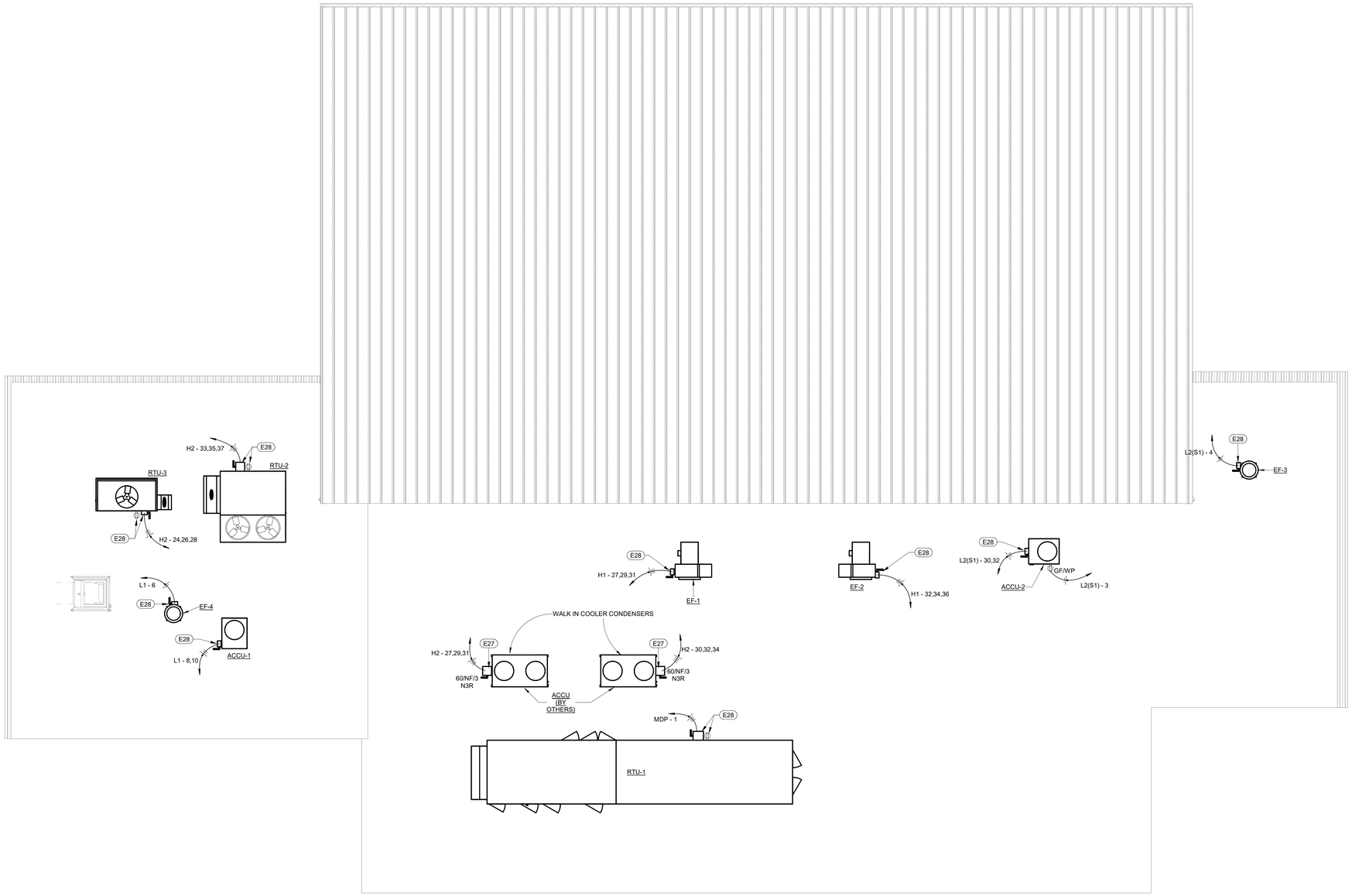
E3.01

DRG REFERENCE

2/28/2025 11:28:04 AM

SHEET NOTES

1. CONTRACTOR SHALL REFERENCE TECHNOLOGY, SECURITY AND A/V DRAWINGS FOR ALL ELECTRICAL BACK BOXES AND CONDUIT REQUIREMENTS.
2. FOR ALL MEP EQUIPMENT CONNECTIONS WITHIN THE AUTOPSY SPACES, COORDINATE EXACT CONNECTION REQUIREMENTS WITH AUTOPSY EQUIPMENT SCHEDULE AND SPECIFICATION BOOK PROVIDED BY ARCHITECT.
3. PROVIDE CONDUIT SEALS AT EXTERIOR DEVICE CONNECTIONS TO PREVENT INTRUSION OF OUTSIDE AIR.



1 ELECTRICAL POWER PLAN - ROOF - OVERALL
3/16" = 1'-0"

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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2603 Augusta Drive, Suite 1600
Houston, TX 77057
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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL POWER ROOF PLAN

E3.02

DRG REFERENCE

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DRAWN BY: Author
DESIGNED BY: Designer

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ELECTRICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

E28	ELECTRICAL DISCONNECT SHALL BE PROVIDED BY DIVISION 23. ELECTRICAL CONTRACTOR SHALL ALL REQUIRED ELECTRICAL CONNECTIONS WITH MECHANICAL EQUIPMENT.

1 ELECTRICAL EQUIPMENT PLAN - FIRST FLOOR - OVERALL

3/16" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL EQUIPMENT PLAN

E4.01

DRG REFERENCE

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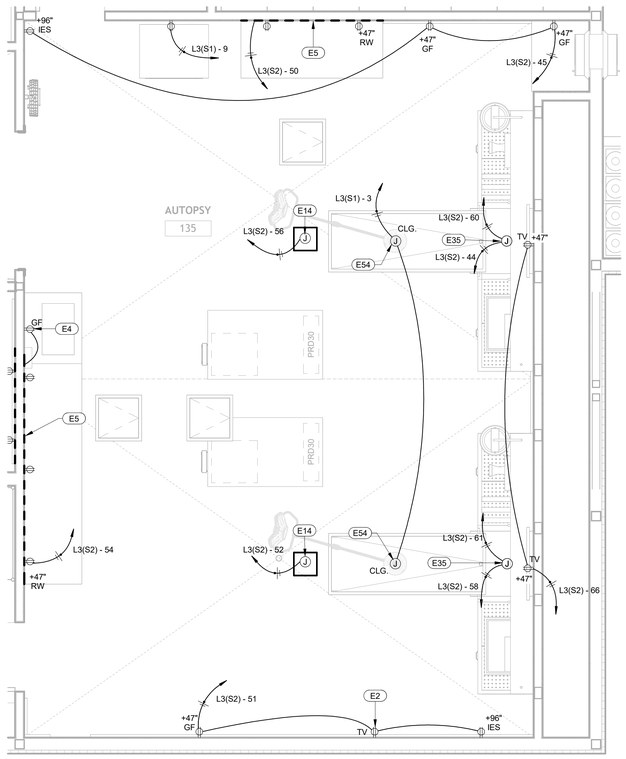
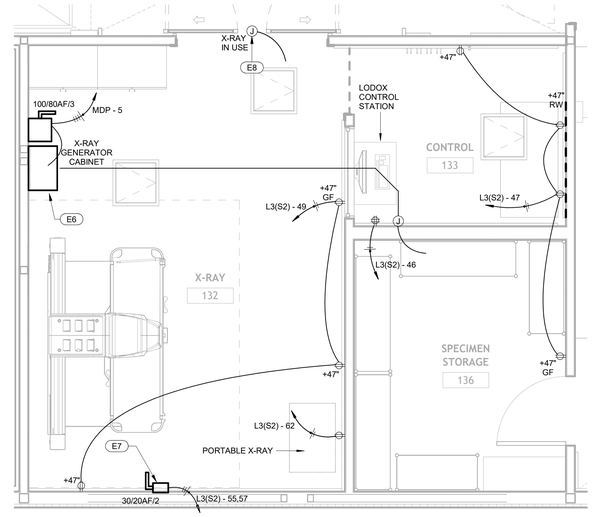
ELECTRICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

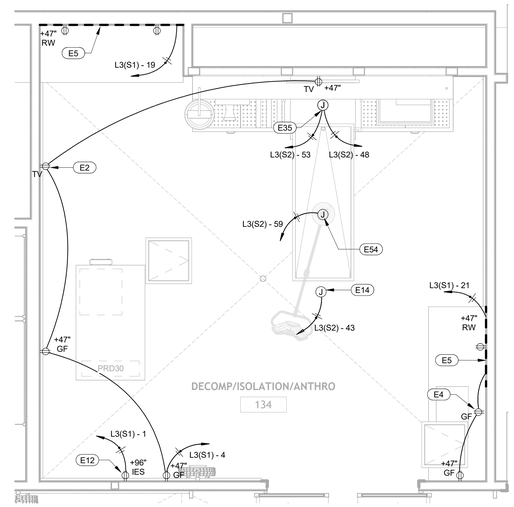
E2	CONTRACTOR SHALL PROVIDE POWER TO IN-WALL BOX FOR TELEVISION MONITOR. CONTRACTOR SHALL COORDINATE EXACT INSTALLATION REQUIREMENTS AND MOUNTING HEIGHTS WITH LOW VOLTAGE CONSULTANT DRAWINGS PRIOR TO ROUGH-IN.
E4	CONTRACTOR SHALL PROVIDE POWER FOR PLUG-IN FAUCET INFRARED SENSOR FOR AUTOMATIC CONTROLS. COORDINATE J-BOX 18" A.F.F. CONFIRM LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
E5	CONTRACTOR SHALL PROVIDE ALUMINUM RACEWAY ABOVE COUNTERTOP. RECEPTACLES SHOWN INDICATE THE QUANTITY OF ELECTRICAL DEVICE PER RACEWAY. CONTRACTOR SHALL COORDINATE ADDITIONAL LOW VOLTAGE DEVICES REQUIRED PER RACEWAY. RACEWAY RECEPTACLES AND DEVICES SHALL BE GRAY COLOR. CONTRACTOR SHALL ROUTE POWER IN THE BOTTOM CHANNEL AND DATA IN THE TOP CHANNEL OF THE RACEWAY. CONTRACTOR SHALL VERIFY LOCATION AND HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
E6	CONTRACTOR SHALL PROVIDE POWER TO LODOX X-RAY GENERATOR RACK CABINET, PROVIDED BY MANUFACTURER. CONTRACTOR SHALL COORDINATE ADDITIONAL INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. CONTRACTOR SHALL INSTALL PER MANUFACTURER REQUIREMENTS.
E7	CONTRACTOR SHALL PROVIDE POWER TO SCANNER STAND POWER. CONTRACTOR SHALL COORDINATE ADDITIONAL INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. CONTRACTOR SHALL INSTALL PER MANUFACTURER REQUIREMENTS.
E8	CONTRACTOR SHALL PROVIDE A JUNCTION BOX FOR X-RAY IN-USE WARNING LIGHT. SHALL INTERLOCK WITH DOORS SERVING THE X-RAY ROOM AND SHALL LOCK DOORS WHEN IN USE. CONTRACTOR SHALL COORDINATE ROUGH-IN AND WIRING REQUIREMENTS WITH X-RAY MANUFACTURER PRIOR TO INSTALLATION.
E12	CONTRACTOR SHALL PROVIDE POWER TO INSECT ELIMINATOR (IES) MOUNTED +96" A.F.F. CONTRACTOR EXACT LOCATION WITH LAB PLANS PRIOR TO ROUGH-IN.
E14	CORD REEL. CONTRACTOR TO PROVIDE AND CONNECT HOSPITAL SYSTEMS, INC. MODEL 298059 DOUBLE ELECTRICAL REEL.
E35	CONTRACTOR SHALL PROVIDE POWER TO WALL MOUNT AUTOPSY STATION. CONDUITS SHALL ROUTE INTO A 4"X4" ELECTRICAL LIQUID TIGHT JUNCTION BOX, PER MANUFACTURER REQUIREMENTS. CONTRACTOR SHALL USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR POWER CONNECTION. CONTRACTOR SHALL ROUTE TWO (2) DEDICATED CIRCUITS, ONE FOR ELECTRICAL STATION AND ONE FOR ELECTRICAL DISPOSAL. DISPOSAL CONTROLS SHALL BE BY MANUFACTURER. CONTRACTOR SHALL COORDINATE ALL POWER REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN.
E54	J-BOX FOR SURGICAL LIGHT. CONTRACT TO COORDINATE WITH EQUIPMENT REQUIRED ELECTRICAL CONNECTIONS.



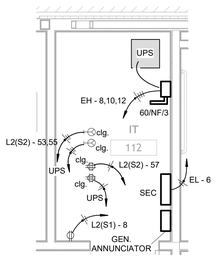
1 ELECTRICAL POWER PLAN - ENLARGEMENT - AUTOPSY 135
3/8" = 1'-0"



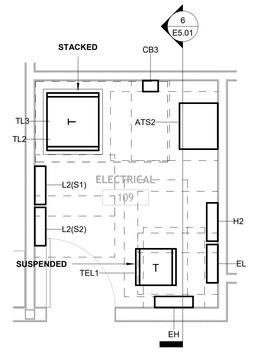
2 ELECTRICAL POWER PLAN - ENLARGEMENT - X-RAY 132
3/8" = 1'-0"



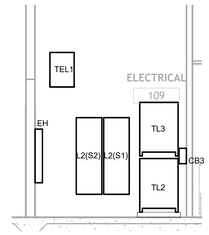
3 ELECTRICAL POWER PLAN - ENLARGEMENT - DECOMP. 134
3/8" = 1'-0"



4 ELECTRICAL POWER PLAN - ENLARGEMENT - IT 112
3/8" = 1'-0"



5 ELECTRICAL POWER PLAN - ENLARGEMENT - ELECTRICAL ROOM 109
3/8" = 1'-0"



6 ELECTRICAL ROOM #109
1/4" = 1'-0"

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DESIGNED BY: Designer

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL ENLARGED PLANS

E5.01

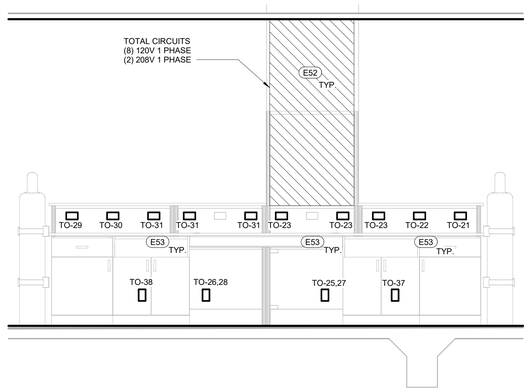
DRG REFERENCE

2/28/2025 11:28:12 AM

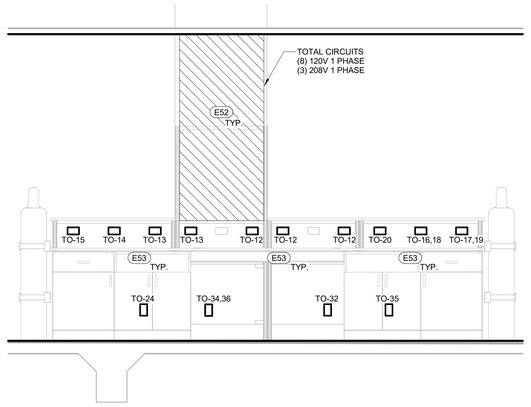
ELECTRICAL KEY NOTES

(KEY NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

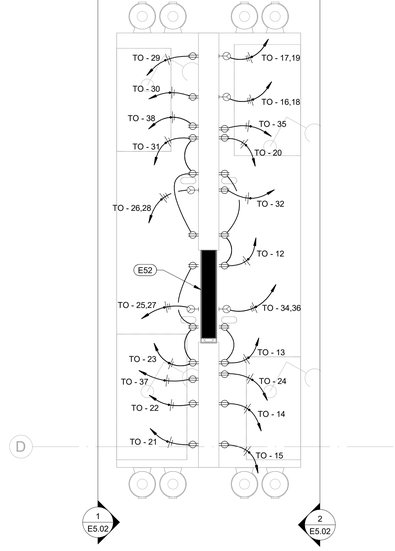
E52	ALL ELECTRICAL BRANCH CIRCUITS FOR EQUIPMENT/DEVICES LOCATED IN TOXICOLOGY ISLAND SHALL BE ROUTED THRU UTILITY SERVICE CHASE. ALL REQUIRED BOXES, COVERS, MC CABLING SHALL BE COORDINATE WITH LAB PLAN AND EQUIPMENT PRIOR TO COMMENCING ANY ROUGH-INS.
E53	ALL BRANCH CIRCUITS IN TOXICOLOGY ISLAND SHALL BE MC CABLING.



1 ELECTRICAL POWER SECTION - TOXICOLOGY (TX2 & TX3)
1/2" = 1'-0"



2 ELECTRICAL POWER SECTION - TOXICOLOGY (TX1 & TX4)
1/2" = 1'-0"



3 ELECTRICAL POWER PLAN - ENLARGEMENT - TOXICOLOGY TABLE
1/2" = 1'-0"

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DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL ENLARGED PLANS TOXICOLOGY

E5.02

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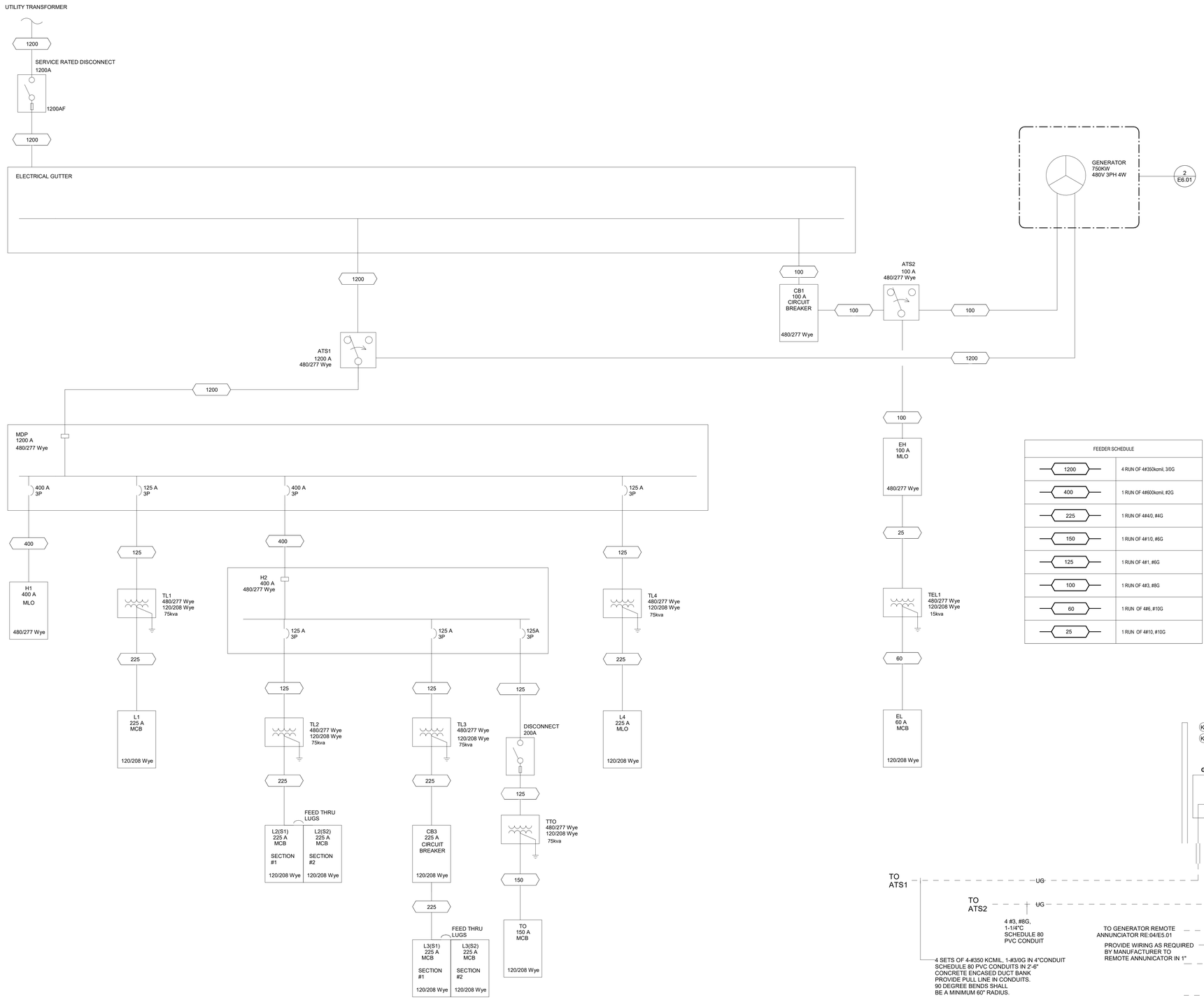
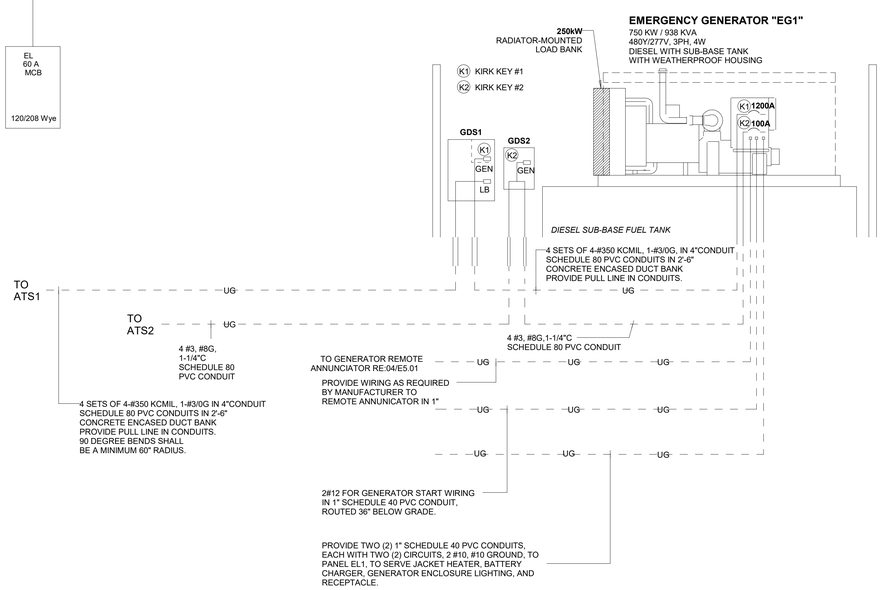


1 ELECTRICAL ONE-LINE
NTS

FEEDER SCHEDULE	
1200	4 RUN OF 4#350kcmil, 3/0G
400	1 RUN OF 4#600kcmil, #2G
225	1 RUN OF 4#4/0, #4G
150	1 RUN OF 4#1/0, #6G
125	1 RUN OF 4#1, #6G
100	1 RUN OF 4#3, #8G
60	1 RUN OF 4#6, #10G
25	1 RUN OF 4#10, #10G

GENERATOR YARD



2 GENERATOR ONE-LINE DETAIL
NTS

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SUITE 175
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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL ONE-LINE DIAGRAMS

E6.01

DRG REFERENCE

2/28/2025 11:28:14 AM

LOAD ANALYSIS: MAIN DISTRIBUTION

SERVICE SIZE: 1200 A 480/277 Wye 3PH4W

Load Classification	Connected Load	Demand Factor	NEC Load
HVAC	620821 VA	100.00%	620821 VA
Other	2250 VA	100.00%	2250 VA
Receptacle	72900 VA	56.86%	41450 VA
Heating	3000 VA	100.00%	3000 VA
Equipment	5700 VA	100.00%	5700 VA
X-Ray	65000 VA	100.00%	65000 VA
Power	70530 VA	100.00%	70530 VA
Lighting	11334 VA	125.00%	14168 VA
Total Load	**851518 VA**		**822898 VA**
		Service Amps:	**1200 A**
		Connected Amps:	**1024 A**
		NEC Amps:	**990 A**
		Spare Amps:	**210 A**

Notes:

DISTRIBUTION PANEL: MDP (NEW)

1200 A MLO
480/277 Wye 3PH 4W

ENCLOSURE: NEMA 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 35,000

CKT	Circuit Description	CB	P	Conduit and Conductor Size	Connected Load	Note
1	RTU-1 (ROOF)	350	3	4#400, 1#3G	202764	
2	H1	400	3	4#600, 1#3G	213863	
3	TL1	125	3	4#1, 1#6G	14209	
4	H2	400	3	4#600, 1#3G	237182	
5	X-RAY 132	80	3	3#2/0, 1#1/0G	60000	
6	CB1	400	3	4#3, 1#8G	40701	
7	TL4	125	3	4#1, 1#6G	64800	
8	REF. TRAILER.	30	3	4#10, 1#10G	19000	
9	FUTURE M & E 122	400	3	4#600, 1#3G	0	
10	Space	--	3	--	--	
11	Space	--	3	--	--	
12	SPD	30	2	--	0	1

Load Summary: Conn Load = 851518 VA NEC Load = 822898 VA NEC Amps = 990 A

Note... 1.) INTEGRAL SURGE PROTECTIVE DEVICE PROVIDE #10 CONDUCTOR TO DEVICE.

PANELBOARD: H1 (NEW)

400 A MLO
480/277 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 18,000

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	LIGHTING	12	1	20	1	1032	1667					2	20	3	12	LSV-07	
	LSV-05	12	3	20	3			3667	1667			4	--	--	--	--	--
--	--	--	--	--	5					3667	1667	6	--	--	--	--	--
--	--	--	--	--	7	3667	5000					8	20	3	12	LSV-06	
	LSV-10	12	3	20	9			5000	5000			10	--	--	--	--	--
--	--	--	--	--	11					5000	5000	12	--	--	--	--	--
--	--	--	--	--	13	5000	5333					14	20	3	12	LSV-04	
	LSV-01	10	3	30	15			6000	5333			16	--	--	--	--	--
--	--	--	--	--	17					6000	5333	18	--	--	--	--	--
--	--	--	--	--	19	6000	6000					20	30	3	10	LSV-02	
	LSV-08	10	3	35	21			6667	6000			22	--	--	--	--	--
--	--	--	--	--	23					6667	6000	24	--	--	--	--	--
--	--	--	--	--	25	6667	6667					26	35	3	10	LSV-09	
	EF-1 (ROOF)	10	3	35	27			7479	6667			28	--	--	--	--	--
--	--	--	--	--	29					7479	6667	30	--	--	--	--	--
--	--	--	--	--	31	7479	7479					32	35	3	10	EF-2 (ROOF)	
	LSV-03	8	3	50	33			10000	7479			34	--	--	--	--	--
--	--	--	--	--	35					10000	7479	36	--	--	--	--	--
--	--	--	--	--	37	10000	--					38	--	1	--	Space	
	Space	--	1	--	39			--	--			40	--	1	--	Space	
	Space	--	1	--	41					--	--	42	--	1	--	Space	
						71947 VA		70958 VA		70958 VA							

Load Summary: Conn Load = 213863 VA NEC Load = 214110 VA NEC Amps = 258 A

Note...

PANELBOARD: L1 (NEW)

225 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 10,000

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	Spare	--	1	20	1	0	360					2	20	1	12	Receptacle M & E 122	
	Receptacle SALLYPORT 118	12	1	20	3			180	200			4	20	1	12	Power SALLYPORT 118	
	HWCP M & E 122	12	1	20	5					200	696	6	20	1	12	EF-4 (ROOF)	
	WASHER SALLYPORT 118	12	1	20	7	1500	2246					8	25	2	10	ACCU-1 (ROOF)	
	Receptacle M & E 410	12	1	20	9			360	2246			10	--	--	--	--	--
	Receptacle	12	1	20	11					900	1200	12	20	1	12	Power SALLYPORT 118	
	Receptacle	12	1	20	13	540	0					14	20	1	--	Spare	
	DRYER SALLYPORT 118	10	2	35	15			1250	540			16	20	1	12	Receptacle	
--	--	--	--	--	17					1250	540	18	20	1	12	Receptacle Room 409, 386, 388	
	Space	--	1	--	19	--	--					20	--	1	--	Space	
	Space	--	1	--	21			--	--			22	--	1	--	Space	
	Space	--	1	--	23					--	--	24	--	1	--	Space	
	Space	--	1	--	25	--	--					26	--	1	--	Space	
	Space	--	1	--	27			--	--			28	--	1	--	Space	
	Space	--	1	--	29					--	--	30	--	1	--	Space	
	Space	--	1	--	31	--	--					32	--	1	--	Space	
	Space	--	1	--	33			--	--			34	--	1	--	Space	
	Spare	--	1	20	35					0	0	36	20	1	--	Spare	
	Spare	--	1	20	37	0	0					38	20	1	--	Spare	
	Spare	--	1	20	39			0	0			40	20	1	--	Spare	
	Spare	--	1	20	41					0	0	42	20	1	--	Spare	
						4646 VA		4776 VA		4786 VA							

Load Summary: Conn Load = 14209 VA NEC Load = 14209 VA NEC Amps = 39 A

Note...

PANELBOARD: L2(S1) (NEW)

225 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 10,000

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
					1		540					2	20	1	12	Receptacle BREAK RM 411	
	Receptacle (ROOF)	12	1	20	3			180	696			4	20	1	12	EF-3 (ROOF)	
1	E.D.F. LOBBY 101	12	1	20	5					500	720	6	20	1	12	Receptacle DEPUTY MEDICAL...	
	Receptacle BREAK ROOM 105	12	1	20	7	1200	180					8	20	1	12	Receptacle IT 112	
	Receptacle RECEPTION 427	12	1	20	9			800	900			10	20	1	12	Receptacle CHIEF MEDICAL...	
	Receptacle LOBBY 426	12	1	20	11					720	180	12	20	1	12	Receptacle STORAGE 104B	
	Receptacle BREAK ROOM 105	12	1	20	13	180	876					14	20	2	12	MS-01 IT 112	
	Receptacle LARGE...	12	1	20	15			1140	876			16	--	--	--	--	--
	EUH-1 WATER RM 120	12	2	20	17					1500	1200	18	20	1	12	Receptacle BREAK ROOM 105	
--	--	--	--	--	19	1500	540					20	20	1	12	Receptacle CHIEF...	
	MS-02 M & E 122	10	2	25	21			1296	180			22	20	1	12	Receptacle SHARED OFFICE 428	
--	--	--	--	--	23					1296	540	24	20	1	12	Receptacle TOILET 102,106,107	
	Receptacle LOCUM TENENS 413	12	1	20	25	720						26					
	Receptacle BREAK ROOM 105	12	1	20	27			180	540			28	20	1	12	Receptacle LARGE...	
	Receptacle SHARED OFFICE 428	12	1	20	29					720	1518	30	20	2	12	ACCU-2 (ROOF)	
					31		1518					32	--	--	--	--	--
	Receptacle OPERATIONS...	12	1	20	33			720				34					
	Spare	--	1	20	35					0	0	36	20	1	--	Spare	
	Spare	--	1	20	37	0	0					38	20	1	--	Spare	
	Spare	--	1	20	39			0	0			40	20	1	--	Spare	
	Spare	--	1	20	41					0	0	42	20	1	--	Spare	
						10734 VA		9848 VA		11254 VA							

Load Summary: Conn Load = 31837 VA NEC Load = 26457 VA NEC Amps = 73 A

Note... 1.) PROVIDE WITH GFCI BREAKER.

PANELBOARD: L2(S2) (NEW)

225 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 10,000

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	Receptacle LARGE...	12	1	20	43	180	180					44	20	1	12	Receptacle LARGE...	
	Receptacle	12	1	20	45			720	180			46	20	1	12	Receptacle RECEPTION 427	
	Receptacle RECEPTION 427	12	1	20	47					180	180	48	20	1	12	Receptacle RECEPTION 427	
	Receptacle Room 428, 427, 422	12	1	20	49	720	400					50	20	1	12	Receptacle RECEPTION 104	
	Receptacle	12	1	20	51			540	500			52	20	1	12	E.D.F. CORRIDOR 124	1
	Receptacle IT 112	12	2	20	53					2000	--	54	--	1	--	Space	
--	--	--	--	--	55	2000	--					56	--	1	--	Space	
	Receptacle IT 112	12	1	20	57			400	--			58	--	1	--	Space	
	Space	--	1	--	59					--	--	60	--	1	--	Space	
	Space	--	1	--	61	--	--					62	--	1	--	Space	
	Space	--	1	--	63			--	--			64	--	1	--	Space	
	Space	--	1	--	65					--	--	66	--	1	--	Space	
	Space	--	1	--	67	--	--					68	--	1	--	Space	
	Space	--	1	--	69			--	--			70	--	1	--	Space	
	Space	--	1	--	71					--	--	72	--	1	--	Space	
	Space	--	1	--	73	--	--					74	--	1	--	Space	
	Spare	--	1	20	75			0	0			76	20	1	--	Spare	
	Spare	--	1	20	77					0	0	78	20	1	--	Spare	
	Spare	--	1	20	79	0	0					80	20	1	--	Spare	
	Spare	--	1	20	81			0	0			82	20	1	--	Spare	
	Spare	--	1	20	83					0	0	84	20	1	--	Spare	
						3480 VA		2340 VA		2360 VA							

Load Summary: Conn Load = 8180 VA NEC Load = 8180 VA NEC Amps = 23 A

Note... 1.) PROVIDE WITH GFCI BREAKER.

PANELBOARD: L4 (NEW)

225 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 10,000

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	COOLER CONTROLLER	3/0	3	200	1	21600	0					2	20	3	--	Spare	
--	--	--	--	--	3			21600	0			4	--	--	--	--	--
--	--	--	--	--	5					21600	0	6	--	--	--	--	--
	Space	--	1	--	7	--	--					8	--	1	--	Space	
	Space	--	1	--	9			--	--			10	--	1	--	Space	
	Space	--	1	--	11					--	--	12	--	1	--	Space	
	Space	--	1	--	13	--	--					14	--	1	--	Space	
	Space	--	1	--	15			--	--			16	--	1	--	Space	
	Space	--	1	--	17					--	--	18	--	1	--	Space	
	Space	--	1	--	19	--	--					20	--	1	--	Space	
	Space	--	1	--	21			--	--			22	--	1	--	Space	
	Space	--	1	--	23					--	--	24	--	1	--	Space	
	Space	--	1	--	25	--	--					26	--	1	--	Space	
	Space	--	1	--	27			--	--			28	--	1	--	Space	
	Space	--	1	--	29					--	--	30	--	1	--	Space	
	Space	--	1	20	31	0	0					32	20	1	--	Spare	
	Spare	--	1	20	33			0	0			34	20	1	--	Spare	
	Spare	--	1	20	35					0	0	36	20	1	--	Spare	
	Spare	--	1	20	37	0	0					38	20	1	--	Spare	
	Spare	--	1	20	39			0	0			40	20	1	--	Spare	
	Spare	--	1	20	41					0	0	42	20	1	--	Spare	
						21600 VA		21600 VA		21600 VA							

Load Summary: Conn Load = 64800 VA NEC Load = 64800 VA NEC Amps = 180 A

Note...

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INTERIM REVIEW
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Engineer: Thomas M. Divine III, P.E.
License No.: 66402 State of Texas
Date: 02/28/2025

JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL PANEL SCHEDULES

E7.01

DRG REFERENCE

2/28/2025 11:28:17 AM

PANELBOARD: EH (NEW)

100 A MLO
480/277 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 10,000

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	Lighting OPERATIONS MANAG...	12	1	20	1	994	1000					2	125	3	12	TEL1	
	Lighting	12	1	20	3			1550	1000			4	--	--	--	--	--
	Lighting CORRIDOR 124	12	1	20	5					2913	1000	6	--	--	--	--	--
	GEN. HEATER	12	2	20	7	1125	10000					8	60	3	6	UPS IT 112	
--	--	--	--	--	9			1125	10000			10	--	--	--	--	--
	Space	--	1	--	11					--	10000	12	--	--	--	--	--
	Space	--	1	--	13	--	--					14	--	1	--	Space	
	Space	--	1	--	15			--	--			16	--	1	--	Space	
	Space	--	1	--	17					--	--	18	--	1	--	Space	
	Space	--	1	--	19	--	--					20	--	1	--	Space	
	Space	--	1	--	21			--	--			22	--	1	--	Space	
	Space	--	1	--	23					--	--	24	--	1	--	Space	
	Space	--	1	--	25	--	--					26	--	1	--	Space	
	Space	--	1	--	27			--	--			28	--	1	--	Space	
	Space	--	1	--	29					--	--	30	--	1	--	Space	
	Spare	--	1	20	31	0	--					32	--	1	--	Space	
	Spare	--	1	20	33			0	--			34	--	1	--	Space	
	Spare	--	1	20	35					0	0	36	20	1	--	Spare	
	Spare	--	1	20	37	0	0					38	20	1	--	Spare	
1	SPD	--	2	30	39			0	0			40	20	1	--	Spare	
--	--	--	--	--	41					0	0	42	20	1	--	Spare	
						13119 VA		13675 VA		13908 VA							

Load Summary: Conn Load = 39701 VA NEC Load = 41064 VA NEC Amps = 49 A

Note... 1.) INTEGRAL SURGE PROTECTIVE DEVICE PROVIDE #10 CONDUCTOR TO DEVICE.

PANELBOARD: EL (NEW)

60 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING:

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	FACP	12	1	20	1	500	0					2	20	1	--	Spare	
	GEN. LIGHTING	12	1	20	3			500	500			4	20	1	12	FIRE RISER WATER RM 120	
	GEN. BATT CHARGER	12	1	20	5					500	500	6	20	1	12	SEC. PANEL	
	GEN. RECEPTACLE	12	1	20	7	500						8					
	Space	--	1	--	9			--				10					
	Space	--	1	--	11					--	--	12	--	1	--	Space	
	Space	--	1	--	13	--	--					14	--	1	--	Space	
	Space	--	1	--	15			--	--			16	--	1	--	Space	
	Space	--	1	--	17					--	--	18	--	1	--	Space	
	Space	--	1	--	19	--	--					20	--	1	--	Space	
	Space	--	1	--	21			--	--			22	--	1	--	Space	
	Space	--	1	--	23					--	--	24	--	1	--	Space	
	Space	--	1	--	25	--	--					26	--	1	--	Space	
	Space	--	1	--	27			--	--			28	--	1	--	Space	
	Space	--	1	--	29					--	--	30	--	1	--	Space	
	Spare	--	1	20	31	0	0					32	20	1	--	Spare	
	Spare	--	1	20	33			0	0			34	20	1	--	Spare	
	Spare	--	1	20	35					0	0	36	20	1	--	Spare	
	Spare	--	1	20	37	0	0					38	20	1	--	Spare	
	Spare	--	1	20	39			0	0			40	20	1	--	Spare	
	Spare	--	1	20	41					0	0	42	20	1	--	Spare	
						1000 VA		1000 VA		1000 VA							

Load Summary: Conn Load = 2000 VA NEC Load = 2000 VA NEC Amps = 6 A

Note...

PANELBOARD: H2 (NEW)

400 A MLO
480/277 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: SURFACE
LUGS: THRU FEED
AIC RATING: 18,000

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	LIGHTING	12	1	20	1	0	0					2	20	1	12	LIGHTING OPERATIONS...	
	LIGHTING TOXICOLOGY 144	12	1	20	3			775	1962			4	20	1	12	LIGHTING...	
	FPTU-04	12	1	20	5					3300	2100	6	20	1	12	FPTU-08	
	FPTU-05	12	1	20	7	4300	5200					8	25	1	10	FPTU-01	
	FPTU-06	12	1	20	9			4000	6200			10	30	1	10	FPTU-07	
	FPTU-03	12	1	20	11					3500	10734	12	125	3	1	TL2	
	FPTU-02	10	1	30	13	5900	9848					14	--	--	--	--	--
	LIGHTING AUTOPSY 135	12	1	20	15			2145	11254			16	--	--	--	--	--
	Space	--	1	--	17					--	16390	18	125	3	1	TL3	
	Space	--	1	--	19	--	14674					20	--	--	--	--	--
	TTO	1	3	125	21			11285	12894			22	--	--	--	--	--
--	--	--	--	--	23					12525	5346	24	25	3	10	RTU-3 (ROOF)	
--	--	--	--	--	25	7370	5346					26	--	--	--	--	--
	COOLER CONDENSER	8	3	40	27			7479	5346			28	--	--	--	--	--
--	--	--	--	--	29					7479	7479	30	40	3	8	COOLER CONDENSER	
--	--	--	--	--	31	7479	7479					32	--	--	--	--	--
	RTU-2 (ROOF)	8	3	50	33			9972	7479			34	--	--	--	--	--
--	--	--	--	--	35					9972	--	36	--	1	--	Space	
--	--	--	--	--	37	9972	--					38	--	1	--	Space	
	Space	--	1	--	39			--	--			40	--	1	--	Space	
	Space	--	1	--	41					--	--	42	--	1	--	Space	
						77569 VA		80788 VA		78826 VA							

Load Summary: Conn Load = 237182 VA NEC Load = 210662 VA NEC Amps = 253 A

Note...

PANELBOARD: L3(S1) (NEW)

225 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: RECESSED
LUGS: THRU FEED
AIC RATING:

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	Receptacle...	12	1	20	1	180	540					2	20	1	12	Receptacle VEST. 407	
	Power AUTOPSY 135	12	1	20	3			500	960			4	20	1	12	Receptacle...	
	Receptacle AUTOPSY...	12	1	20	5					720	720	6	20	1	12	Receptacle AUTOPSY...	
	Receptacle AUTOPSY TECH...	12	1	20	7	720	1500					8	20	1	12	WASHER LAUNDRY 139	
	DRY CABINET AUTOPSY 135	12	1	20	9			1200	1200			10	20	1	12	Power AUTOPSY TRANSITION...	
	DRYER LAUNDRY 139	10	2	35	11					1250	180	12	20	1	12	Receptacle RECEIVING /...	
--	--	--	--	--	13	1250	180					14	20	1	12	Receptacle AUTOPSY...	
	Receptacle...	12	1	20	15			180	360			16	20	1	12	Receptacle RECEIVING /...	
	Receptacle Room 406, 429	12	1	20	17					720	900	18	20	1	12	Receptacle Room 399, 398, 406	
	Receptacle...	12	1	20	19	360	540					20	20	1	12	Receptacle CHIEF MORGUE...	
	Receptacle...	12	1	20	21			660	720			22	20	1	12	Receptacle AUTOPSY TECH...	
	Receptacle RECEIVING /...	12	1	20	23					720	--	24	--	1	--	Space	
	Receptacle AUTOPSY TECH...	12	1	20	25	720	--					26	--	1	--	Space	
	Space	--	1	--	27			--	--			28	--	1	--	Space	
	Space	--	1	--	29					--	--	30	--	1	--	Space	
	Space	--	1	--	31	--	--					32	--	1	--	Space	
	Space	--	1	--	33			--	--			34	--	1	--	Space	
	Spare	--	1	20	35					0	0	36	20	1	--	Spare	
	Spare	--	1	20	37	0	0					38	20	1	--	Spare	
	Spare	--	1	20	39			0	0			40	20	1	--	Spare	
	Spare	--	1	20	41					0	0	42	20	1	--	Spare	
						16390 VA		14674 VA		12894 VA							

Load Summary: Conn Load = 43959 VA NEC Load = 38739 VA NEC Amps = 108 A

Note...

PANELBOARD: L3(S2) (NEW)

225 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: RECESSED
LUGS: THRU FEED
AIC RATING:

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	CORD REEL...	12	1	20	43	1200	1500					44	20	1	12	POWER AUTOPSY 403	
	Receptacle AUTOPSY 135	12	1	20	45			540	400			46	20	1	12	Receptacle CONTROL 133	
	Receptacle CONTROL 133	12	1	20	47					720	1500	48	20	1	12	Power...	
	Receptacle X-RAY 132	12	1	20	49	540	360					50	20	1	12	Receptacle AUTOPSY 135	
	Receptacle AUTOPSY 135	12	1	20	51			660	1200			52	20	1	12	Power AUTOPSY 135	
	Power...	12	1	20	53					1500	720	54	20	1	12	Receptacle AUTOPSY 135	
	SCANNER X-RAY 132	6	2	20	55	2500	1200					56	20	1	12	POWER AUTOPSY 135	
--	--	--	--	--	57			2500	1500			58	20	1	12	POWER AUTOPSY 403	
	POWER...	12	1	20	59					250	1500	60	20	1	12	POWER AUTOPSY 403	
	POWER AUTOPSY 403	12	1	20	61	1500	800					62	20	1	12	Receptacle X-RAY 132	
	AC-1 RECEIVING / PROCESSIN...	12	2	20	63			894	1200			64	20	1	12	DOORS	
--	--	--	--	--	65					894	600	66	20	1		Receptacle AUTOPSY 135	
	Space	--	1	--	67	--	800					68	20	1	12	Power	
	Space	--	1	--	69			--	--			70	--	1	--	Space	
	Space	--	1	--	71					--	--	72	--	1	--	Space	
	Space	--	1	--	73	--	--					74	--	1	--	Space	
	Space	--	1	--	75			--	--			76	--	1	--	Space	
	Spare	--	1	20	77					0	0	78	20	1	--	Spare	
	Spare	--	1	20	79	0	0					80	20	1	--	Spare	
	Spare	--	1	20	81			0	0			82	20	1	--	Spare	
	Spare	--	1	20	83					0	0	84	20	1	--	Spare	
						10400 VA		8894 VA		7684 VA							

Load Summary: Conn Load = 26979 VA NEC Load = 26979 VA NEC Amps = 75 A

Note...

PANELBOARD: TO (NEW)

150 A MCB
120/208 Wye 3PH 4W

ENCLOSURE: 1
MOUNTING: RECESSED
LUGS: THRU FEED
AIC RATING:

Note	Circuit Description	Wire	P	CB	CKT	A		B		C		CKT	CB	P	Wire	Circuit Description	Note
	Receptacle STOR. 431	12	1	20	1	800	800					2	20	1	12	Receptacle STOR. 431	
	Receptacle STOR. 431	12	1	20	3			1200	360			4	20	1	12	Receptacle STOR. 431	
	Receptacle VEST. 143	12	1	20	5					360	180	6	20	1	12	Power TOXICOLOGY 144	
	DW TOXICOLOGY 144	12	1	20	7	1920	540					8	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	9			540	720			10	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	11					180	540	12	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	13	360	180					14	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	15			180	1425			16	20	2	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	2	20	17					1425	1425	18	--	--	--	--	--
--	--	--	--	--	19	1425	180					20	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	21			180	180			22	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	23					540	180	24	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	2	20	25	2000	2000					26	20	2	12	Receptacle TOXICOLOGY 144	
--	--	--	--	--	27			2000	2000			28	--	--	--	--	--
	Receptacle TOXICOLOGY 144	12	1	20	29					180	180	30	20	1	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	31	540	180					32	20	1	12	Receptacle TOXICOLOGY 144	
	FUME HOOD TOXICOLOGY 144	12	1	20	33			1200	2000			34	20	2	12	Receptacle TOXICOLOGY 144	
	Receptacle TOXICOLOGY 144	12	1	20	35					180	2000	36	--	--	--	--	--
	Receptacle TOXICOLOGY 144	12	1	20	37	180	180					38	20	1	12	Receptacle TOXICOLOGY 144	
	Spare	--	1	20	39			0	540			40	20	1	12	Receptacle TOXICOLOGY 144	
	Spare	--	1	20	41					0	0	42	20	1	--	Spare	
						11285 VA		12525 VA		7370 VA							

Load Summary: Conn Load = 31180 VA NEC Load = 24040 VA NEC Amps = 67 A

Note...

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
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ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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License No.: 66402 State of Texas
Date: 02/28/2025
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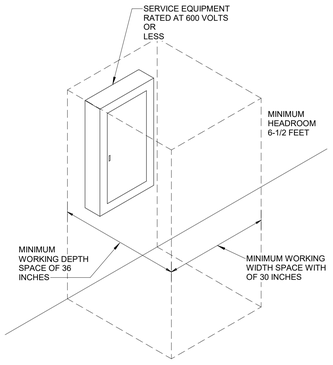
PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL PANEL SCHEDULES

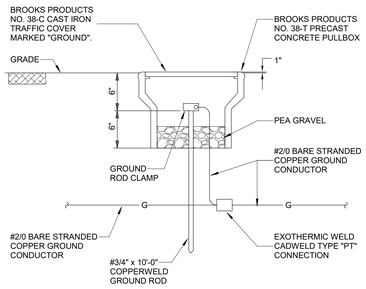
E7.02

DRG REFERENCE

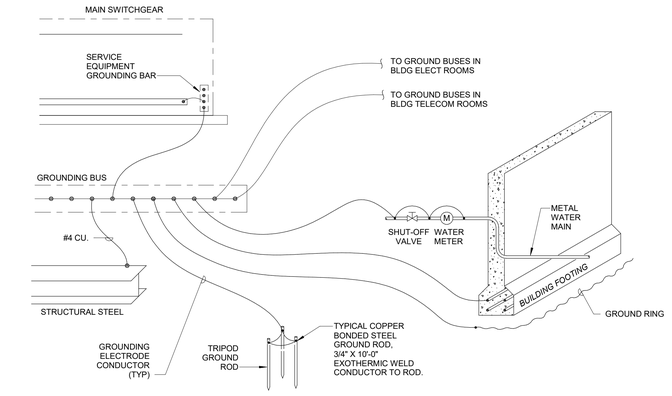
DRAWN BY: Author
DESIGNED BY: Designer



7 PANELBOARD CLEARANCE DETAIL
NTS

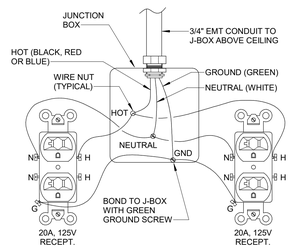


6 GROUND TESTING WELL
NTS

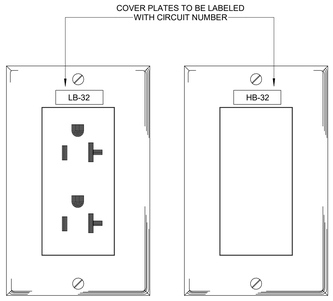


NOTE:
REFER TO NEC 250 AND SPECIFICATIONS.
ALL SYSTEMS MAY NOT BE PRESENT.

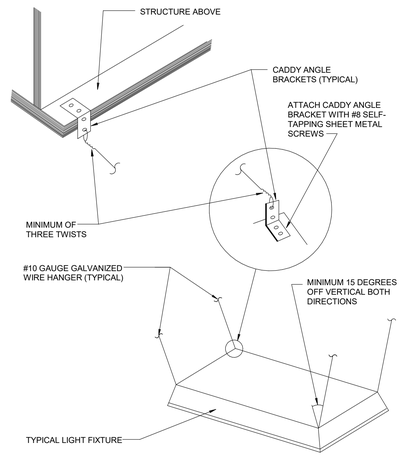
5 GROUNDING ELECTRODE DETAIL
NTS



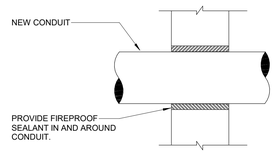
4 WIRING DEVICE DETAIL
NTS



3 LABELED RECEPTACLE/SWITCH DEVICE PLATE
NTS



2 2' x 4' LIGHT FIXTURE DETAIL
NTS



1 CONDUIT THRU RATED WALL PENETRATION DETAIL
NTS

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

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PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL DETAILS

E8.01

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

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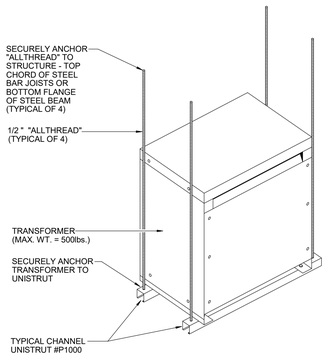
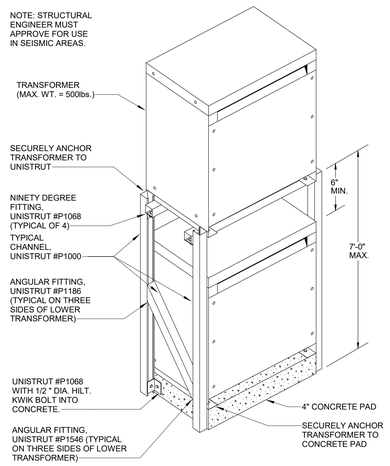
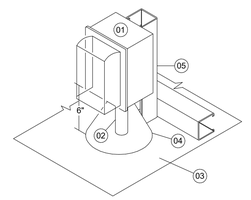


4 SUSUPENDED TRANSFORMER
1/8" = 1'-0"



3 STACKED TRANSFORMERS
1/8" = 1'-0"



DETAIL NOTES

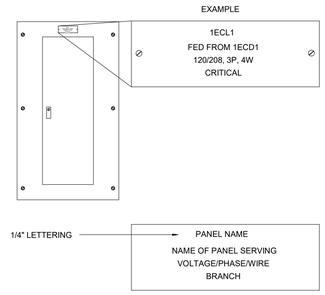
(01) RECEPTACLE IN NEMA 3R ENCLOSURE. ENCLOSURE SHALL REMAIN WEATHERPROOF WHEN RECEPTACLE IS IN USE.
(02) 3/4" RIGID STEEL CONDUIT
(03) ROOF
(04) FLASHING
(05) 1-5/8" GALVANIZED UNISTRUT SUPPORT, 6" ABOVE FINISHED ROOF TO BOTTOM OF RECEPTACLE.

GENERAL NOTES

RECEPTACLE MAY BE MOUNTED TO ROOFTOP

1. EQUIPMENT OR ROOFTOP EQUIPMENT SUPPORTS IN LIEU OF SUPPORT SHOWN IF NEC AND INTERNATIONAL MECHANICAL CODE REQUIREMENTS ARE MAINTAINED AND SUCH MOUNTING IS ACCEPTABLE TO ROOFTOP EQUIPMENT MANUFACTURER.

2 ROOF MOUNTED RECEPTACLE DETAIL
NTS



NOTE:
REFER TO THE SPECIFICATIONS FOR COLORS FOR EACH ELECTRICAL SYSTEM.

1 PANELBOARD IDENTIFICATION
NTS

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
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PROJECT NO: 24-0035-00
DATE: 20250308

ELECTRICAL DETAILS

E8.02

DRG REFERENCE

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Engineer: Thomas M. Divine III, P.E.
License No.: 66402 State of Texas
Date: 02/28/2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 10:54:43 AM

PLUMBING GENERAL NOTES

1. CODE REQUIREMENTS: ALL WORK PERFORMED SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, ORDINANCES, REGULATIONS, ETC, AS WELL AS ALL CODES AND REQUIREMENTS. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER INSTALLATION OF THIS WORK UNDER THE ABOVE REGULATIONS AND SHALL PERFORM AT HIS OWN EXPENSE ALL WORK NECESSARY TO MEET SUCH REQUIREMENTS WHETHER OR NOT SUCH WORK IS SHOWN ON THE DRAWINGS.
2. PERMITS AND FEES: THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF WORK AND PAY ALL CHARGES INCIDENTAL THERETO.
3. TESTS: CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL TESTS NECESSARY TO PREVENT CONCEALMENT OF DEFECTIVE OR IMPROPER WORK. UPON COMPLETION OF WORK, TEST INSTALLATION THOROUGHLY AND RENDER IT FREE FROM LEAKS OR IMPROPER CONNECTIONS.
4. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION ON WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
5. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
6. ALL SYSTEMS SHALL BE COMPLETE AND WORKING AT COMPLETION OF CONSTRUCTION.
7. GUARANTEE ALL WORK AND MATERIALS FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER AND ARCHITECT.
8. SUBMIT SHOP DRAWINGS OF PROPOSED NEW DEVICES, EQUIPMENT, FIXTURES AND PROPOSED PIPING ARRANGEMENT PRIOR TO INSTALLATION.
9. FURNISH OWNER WITH COMPLETE OPERATING MANUALS AND INSTRUCTIONS FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
10. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.
11. INSULATE FITTINGS AND VALVES TO THICKNESS OF ADJOINING PIPE INSULATION WITH HYDRAULIC INSULATING CEMENT, GLASS FABRIC AND FINISHING CEMENT. ALL MATERIALS SHALL BE PLENUM RATED. PROVIDE GALVANIZED SHEET METAL INSULATION SHIELDS AT EACH HANGER (SUPPORT) LOCATION.
12. INSULATE P-TRAP, DRAIN LINE AND DRAIN BODY OF FLOOR DRAINS, FLOOR SINKS AND FUNNEL DRAINS RECEIVING CONDENSATE FROM ICE MAKERS AND MECHANICAL EQUIPMENT WITH 1" THICK FIBERGLASS WITH A VAPOR BARRIER JACKET AND VAPOR BARRIER HYDRAULIC INSULATING CEMENT, FOR A DISTANCE OF 20'. INSTALL AS SPECIFIED FOR HOT WATER INSULATION.
13. INSULATE P-TRAP, DRAIN LINE AND DRAIN BODY OF FLOOR DRAINS, FLOOR SINKS AND FUNNEL DRAINS RECEIVING HOT WATER DISCHARGE WITH 1" THICK FIBERGLASS WITH A VAPOR BARRIER JACKET AND VAPOR BARRIER HYDRAULIC INSULATING CEMENT, FOR A DISTANCE OF 20'. INSTALL AS SPECIFIED FOR HOT WATER INSULATION.
14. ALL INSULATION SHALL HAVE A WATER BARRIER AT LEAST EVERY 15', AND AT EVERY VERTICAL 90 DEGREE TURN.
15. CONTRACTOR SHALL COORDINATE PROPOSED PIPING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR EQUIPMENT. COORDINATE ALL WORK CLOSELY WITH OTHER TRADES AND CONTRACTORS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND ITEMS TO COORDINATE.
16. DO NOT SCALE FROM THE ENGINEERED DRAWINGS. REFER TO THE DIMENSIONED DRAWINGS OF THE ARCHITECT FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC.
17. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
18. CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL EQUIPMENT AND PIPE HANGERS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
19. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BID, CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR REVIEW OF GENERAL NOTES, SPECIFICATIONS AND ALL OTHER PLANS (INCLUDING AREAS OF PROJECT CONSIDERED "FUTURE PHASE SCOPE") FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
20. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION TO COMPLY WITH, AND BE INSTALLED IN ACCORDANCE WITH ALL LEGALLY CONSTITUTED AUTHORITIES AND CODES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE OWNER.
21. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
22. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF PLUMBING FIXTURES. DISCREPANCIES IN LOCATION OF FIXTURES SHALL BE COORDINATED PRIOR TO ROUTING AND INSTALLATION OF PIPING OR FIXTURES.
23. NO PLASTIC PIPE (I.E. PVC, CPVC, PEX, ETC.) SHALL BE INSTALLED IN THE CEILING RETURN AIR PLENUM.
24. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
25. CONTRACTOR SHALL COORDINATE ALL PLUMBING PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, VOID FORMS, FOOTINGS, COLUMNS PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS PLACED.
26. INSTALL "HEAVY-DUTY" NO HUB COUPLINGS ON ALL SANITARY PIPING. REFER TO PIPING MATERIALS SCHEDULE, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
27. COORDINATE FLOOR DRAIN LOCATIONS AND FLOOR SLOPE REQUIREMENTS WITH THE ARCHITECT. RIM OF FLOOR DRAINS AND FLOOR SINKS SHALL BE LOCATED FLUSH WITH FINISHED FLOOR LEVEL. SLOPE FLOOR TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS.
28. CONTRACTOR TO REVIEW ARCHITECT'S PLANS AND ELEVATIONS FOR CEILING HEIGHTS AND FEATURES, SUCH AS CLOUD CEILINGS, SOFFITS, COVES, ETC.
29. CONTRACTOR SHALL COMPLETELY REVIEW PLANS AND SPECIFICATIONS PRIOR TO BID. IN INSTANCES WHERE PLANS AND SPECIFICATIONS CONFLICT, CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER OF DISCREPANCY AND REQUEST A CLARIFICATION PRIOR TO BID. IF CONFLICT WITH PLANS AND SPECIFICATIONS IS DISCOVERED, PROVIDE PRICING FOR THE HIGHER OF THE TWO INSTANCES. SUBMISSION OF LESSER OF TWO OPTIONS WILL NOT BE ACCEPTED AFTER BID CLARIFICATION.
30. REFER TO OWNER'S PLUMBING DESIGN AND CONSTRUCTION STANDARDS FOR ADDITIONAL REQUIREMENTS.
31. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP GUARD. REFER TO SPECIFICATIONS AND DRAWINGS FOR DEVICE TO BE USED.
32. OWNER'S REPRESENTATIVES SHALL OPERATE ALL EXISTING VALVES, SWITCHES, BREAKERS, DISCONNECTS, ETC. AS REQUIRED TO PERFORM OUTAGES, AND SHUTDOWNS. OWNER'S REPRESENTATIVES AND AFFECTED EMPLOYEES SHALL PERFORM ALL REQUIRED L.O.T.O. PER O.S.H.A. REQUIREMENTS. CONTRACTOR(S) SHALL L.O.T.O. OVER OWNER'S L.O.T.O. OWNER'S REPRESENTATIVES SHALL DRAIN DOWN EXISTING SYSTEMS, RELEASE ANY STORED ENERGY, AND BE RESPONSIBLE TO PROPERLY CONTAIN AND DISPOSE OF ANY EXISTING HAZARDOUS MATERIALS. L.O.T.O. SHALL BE REMOVED AFTER TESTING AND COMPLETION OF WORK.
33. ALL PROPOSED CORE DRILL LOCATIONS THROUGH FLOOR SLAB SHALL BE COORDINATED WITH AND APPROVED BY THE OWNERS REPRESENTATIVE, STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO CORING.
34. ALL PENETRATIONS IN CONCRETE FLOOR SLAB AND CEILING CREATED FOR NEW EQUIPMENT THAT WILL NOT BE USED SHALL BE FILLED AND PATCHED WITH MATERIAL TO MATCH THE SURROUNDING SLAB RATING. ANY VARIANCES FROM THIS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER AND ARCHITECT.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—SAN—	SANITARY PIPING BELOW GRADE		SHUT-OFF VALVE
SAN	SANITARY PIPING ABOVE GRADE		CHECK VALVE
	VENT PIPING		PRESSURE REDUCING VALVE
ST	STORM DRAINAGE PIPING		BALANCING VALVE ASSEMBLY
—ST—	STORM DRAINAGE PIPING BELOW GRADE		COCK VALVE
	COLD WATER PIPING		VALVE IN VERTICAL
	HOT WATER PIPING		CURB VALVE
	HOT WATER RETURN PIPING		MIXING VALVE
G	GAS PIPING	G	PIPE DROP, RISE OR DOWN
—AV—	ACID VENT PIPING		PIPE CONNECTION, TOP
AW	ACID WASTE PIPING		PIPE CONNECTION, BOTTOM
CA	COMPRESSED AIR PIPING (INSTRUMENT GRADE)		PIPE UP
GRW	GRAY WATER PIPING		"P" TRAP
EPD	EJECTOR PUMP DISCHARGE PIPING		CLEANOUT
FAI	FRESH AIR INLET		CLEANOUT DECK PLATE
GW	GREASE WASTE PIPING		CAPPED OUTLET
IW	INDIRECT WASTE PIPING		DIELECTRIC UNION
SPD	SUMP PUMP DISCHARGE PIPING		VENT THROUGH ROOF
OD	OVERFLOW DRAINAGE PIPING		FLOOR DRAIN, AREA DRAIN
TF	TANK FILL PIPING		FLOOR SINK
TW	TEPID WATER PIPING		ROOF DRAIN, OVERFLOW DRAIN
NP	NON-POTABLE WATER PIPING		YARD HYDRANT
VAC	VACUUM PIPING		HOSE BIBB
O2	OXYGEN PIPING		WALL HYDRANT
N2	NITROGEN PIPING	VB	VACUUM BREAKER ASSEMBLY
CO2	CARBON DIOXIDE PIPING		THERMOMETER
TP	TRAP PRIMER PIPING		PRESSURE GAUGE W/VALVE
	ELECTRIC HEAT TRACING	BFP	BACKFLOW PREVENTER
	EXISTING PIPING TO BE REMOVED		FLOOR, AREA DRAIN (RISER)
	EXISTING PIPING TO BE ABANDONED		ROOF DRAIN (RISER)
	POINT OF DISCONNECTION FOR EXISTING WORK		WATER HAMMER (SHOCK) ARRESTOR
	POINT OF CONNECTION NEW PIPE TO EXISTING		FRESH AIR INLET (FAI)
P #	RISER DESIGNATION	M	METER
		F	WATER FILTER
ST #	LEADER DESIGNATION		PUMP
			DIRECTION OF FLOW
* #	EQUIPMENT DESIGNATION		PIPE BREAK
			MOTOR OPERATED VALVE
			SOLENOID VALVE
	FLEXIBLE CONNECTION		DIAPHRAGM VALVE
	EXPANSION LOOP		BALANCING VALVE
	CONCENTRIC REDUCER		ANGLE VALVE
	STRAINER Y-TYPE		OS & Y VALVE
	BASKET STRAINER		OS & Y VALVE IN VERTICAL
	STANDPIPE (RISER)		GAS PRESSURE REGULATOR
			AUTOMATIC AIR VENT VALVE
	WATERTIGHT PIPE SLEEVE, BEAM PENETRATION		T & P RELIEF VALVE
GD	GUTTER DRAIN (RISER)		BACKWATER VALVE
	FUNNEL DRAIN (RISER)	TP	TRAP PRIMER
FS	FLOOR SINK (RISER)		HOUSE TRAP
MS	MOP SINK (RISER)		AQUASTAT
SH	SHOWER DRAIN (RISER)	EJ	EXPANSION JOINT

NOTE: NOT ALL SYMBOLS TABULATED ABOVE ARE NECESSARILY USED ON THE DRAWINGS.

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME
P0.00	PLUMBING LEGEND INDEX AND NOTES
P0.01	PLUMBING SCHEDULES
P1.01	PLUMBING SITE PLAN
PU2.01	PLUMBING UNDERFLOOR PLAN
P2.01	PLUMBING FLOOR PLAN
P2.02	PLUMBING ROOF PLAN
P5.01	PLUMBING DETAILS
P5.02	PLUMBING DETAILS
P6.01	PLUMBING RISERS

PLUMBING ABBREVIATIONS

ABBR.	DEFINITION	ABBR.	DEFINITION
AD	AREA DRAIN	HB	HOSE BIBB
AFF	ABOVE FINISH FLOOR	HW	DOMESTIC HOT WATER
ARCH	ARCHITECTURAL	HWR	DOMESTIC HOT WATER RETURN
BFP	BACKFLOW PREVENTER	I.E.	INVERT ELEVATION
BLDG	BUILDING	IW	INDIRECT WASTE
CA	COMPRESSED AIR	LG	LOW PRESSURE GAS
CLG	CEILING	MAX	MAXIMUM
CO	CLEANOUT	MECH	MECHANICAL
CONN	CONNECTION	MG	MEDIUM PRESSURE GAS
CONT	CONTINUATION	MH	MANHOLE
CW	DOMESTIC COLD WATER	MIN	MINIMUM
DCV	DOUBLE CHECK VALVE	NC	NORMALLY CLOSED
DET	DETAIL	NO	NORMALLY OPEN
DFU	DRAINAGE FIXTURE UNIT	NTS	NOT TO SCALE
DIA	DIAMETER	OD	OVERFLOW DRAIN
DIM	DIMENSION	PRV	PRESSURE REDUCING VALVE
DN	DOWN	RD	ROOF DRAIN
DR	DRAIN	RPZ	REDUCED PRESSURE ZONE
DWG	DRAWING	SAN	SANITARY WASTE
EA	EACH	SF	SQUARE FEET
EJ	EXPANSION JOINT	STR	STORM DRAINAGE
EL	ELEVATION	TD	TRENCH DRAIN
EQ	EQUAL	TP	TRAP PRIMER
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
EWH	ELECTRIC WATER HEATER	V	VENT
EXIST	EXISTING	VTR	VENT THROUGH ROOF
FCO	FLOOR CLEANOUT	W	WASTE
FD	FLOOR DRAIN	W/	WITH
FS	FLOOR SINK	WC	WATER CLOSET
FL	FLOOR	WCO	WALL CLEANOUT
G	GAS PIPING	W/O	WITHOUT
GAL	GALLON	WH	WALL HYDRANT
GD	GUTTER DRAIN	WHA	WATER HAMMER ARRESTOR
GH	GROUND HYDRANT	YCO	YARD CLEANOUT
GPM	GALLON PER MINUTE	YH	YARD HYDRANT

AUTOMATIC SPRINKLER NOTES

1. EXTEND AUTOMATIC WET-PIPE FIRE SPRINKLER PROTECTION SYSTEM THROUGHOUT BUILDING EXCEPT: *PROPERTY/EVIDENCE/DNA CARDS 128, X-RAY 132, AND TOXICOLOGY 144.*
2. EXTEND PREACTION FIRE SPRINKLER PROTECTION SYSTEM THROUGHOUT THE FOLLOWING ROOMS: *PROPERTY/EVIDENCE/DNA CARDS 128, X-RAY 132, AND TOXICOLOGY 144.*
3. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH OWNER'S INSURANCE REQUIREMENTS, NFPA 13, 2013 ED., 2015 IFC WITH CITY OF PLEASANTON AMENDMENTS, AND ALL AUTHORITIES HAVING JURISDICTION.
4. SYSTEM(S) SHALL BE HYDRAULICALLY CALCULATED UTILIZING DESIGN DENSITIES AND REMOTE AREA AS RECOMMENDED BY NFPA 13, 2013 ED., AND ALL AUTHORITIES HAVING JURISDICTION.
5. ALL MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND/OR FM APPROVED.
6. SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PREPARED BY A LICENSED SPRINKLER CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT AND ALL AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL.
7. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE HEADS.
8. UNLESS DIRECTED OTHERWISE BY ARCHITECT, SPRINKLER HEAD TYPE SHALL BE PROVIDED AS OUTLINED BELOW:
   - A. PUBLIC AREAS WITH LAY-IN CEILING TILES - FULLY RECESSED CONCEALED TYPE WITH WHITE CAP FINISH.
   - B. STAFF AREAS WITH LAY-IN CEILING TILES THAT INCLUDE LOUNGES, BREAKROOMS, OFFICES, CUBICLES - FULLY RECESSED CONCEALED TYPE WITH WHITE CAP FINISH.
   - C. AREAS WITH GYPBOARD CEILINGS - FULLY RECESSED CONCEALED TYPE WITH WHITE CAP FINISH.
   - D. EXPOSED AREAS THAT INCLUDE MECHANICAL ROOMS, CANOPIES, ETC. - STANDARD UPRIGHT HEADS.
   - E. REFER TO ARCHITECTURAL DRAWINGS FOR SPRINKLER HEAD LOCATIONS IN HIGH PROFILE AREAS.
   - F. COORDINATE FINISH OF HEADS AND COVERS WITH ARCHITECT.
9. DO NOT USE EXTENDED COVERAGE SPRINKLER HEADS.
10. LOCATE SPRINKLER HEADS IN CENTER OF CEILING TILES UNLESS DIRECTED OTHERWISE BY ARCHITECT.
11. A RELIABLE WATER SUPPLY OF 30 MINUTES MINIMUM SHALL BE PROVIDED PER CODE.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WATER FLOW TEST

PROJECT NAME:	ATASCOSA COUTNY REGIONAL MEDICAL EXAMINER
ADDRESS:	2136 SECOND ST. (HWY 281)
CITY, STATE:	PLEASANTON, TX
DATE:	2/12/2025
TEST HYDRANT STATIC PRESSURE:	78 PSI
TEST HYDRANT RESIDUAL PRESSURE:	26 PSI
FLOW HYDRANT:	770 GPM

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

PLUMBING LEGEND INDEX AND NOTES

P0.00

ORG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 10:54:46 AM

PLUMBING EQUIPMENT SCHEDULE

DESIGNATION	Equipment Type	LOCATION	MANUFACTURER	MODEL	NOTES
WSS	WATER SOFTENING SYSTEM	M&E MECHANICAL ROOM 122	WATER CONTROL CORPORATION	LF-180-TWIN	
HG	HYDROGEN GENERATOR	TOXICOLOGY 144	PEAK SCIENTIFIC		
NG	NITROGEN GENERATOR	COLD STORAGE 145	PEAK SCIENTIFIC		

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE TYPE	CW	HW	WASTE	VENT	MANUFACTURER & MODEL	DESCRIPTION
ANT	ACID NEUTRALIZATION TANK	--	--	2"	2"	STRIEM LB-2 LAB RAT	STRIEM LAB RAT NEUTRALIZATION TANK INTENDED FOR INSTALLATION UNDER LAB STATIONS. 2 GALLON TANK COMPLETE WITH 3 INTEGRAL 2" FPT CONNECTIONS, INCLUDE LIMESTONE AGENT.
CCD-1	CENTER DRAIN OUTLET BOX	--	--	2"	2"	GUY GRAY 81957	CENTER DRAIN LESS VALVES G90 HOT DIPPED GALVANIZED STEEL 20 GAUGE BOX WITH 20 GAUGE FACEPLATE. PLUMBING CONTRACTOR TO FIELD FABRICATE A 2 1/2" CENTER CUT HOLE IN TOP OF DRAIN BOX FOR CONDENSATE DRAIN.
EDF-1	DRINKING FOUNTAIN/FILL STATION	3/8"	--	2"	2"	HALSEY TAYLOR HTHB-HAC8BLSS-WF	HYDROBOOST BOTTLE FILLING STATION, BI-LEVEL ADA COOLER, FILTERED 8 GPH PLATINUM VINYL CHILLING CAPACITY OF 8.0 GPH, MECHANICALLY ACTIVATED, SANITARY SENSOR ACTIVATED, VISUAL FILTER MONITOR, FILTERED, LAMINAR FLOW, ANTIMICROBIAL, ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. USE ELKAY MLP200 IN-WALL CARRIER.
EW	DRENCH HOSE EYE-WASH	3/8"	--	--	--	REFER TO MWL LAB SHEETS	DUAL PURPOSE EYE-WASH/DRENCH HOSE FOR DECK MOUNTING APPLICATIONS. SPRAY-HEAD ASSEMBLY SHALL INCLUDE TWO SPRAY HEADS MOUNTED SIDE-BY-SIDE WITH "FLIP-TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER. COMPLETE WITH BACKFLOW PREVENTER AND STAINLESS STEEL LEVER HANDLE WITH LOCKING CLIP FOR HANDS-FREE OPERATION. INCLUDE TMV AP3600 THERMOSTATIC MIXING VALVE FOR BLENDING OF HOT AND COLD WATER.
EWS	EMERGENCY SHOWER / EYE-WASH	3/8"	3/8"	2"	2"	REFER TO MWL LAB SHEETS	RECESSED, BARRIER-FREE EYE/FACE WASH AND SHOWER SAFETY STATION WITH CEILING MOUNTED EXPOSED SHOWER HEAD AND DRAIN PAN. PROVIDE EWS ASSEMBLY WITH AP3800 THERMOSTATIC MIXING VALVE.
HB-1	HOSE BIBB	3/4"	--	--	--	ZURN Z1341XL-PB	EXPOSED, LEAD FREE, ANTI-SIPHON, MODERATE CLIMATE WALL HYDRANT FOR LIGHT COMMERCIAL APPLICATIONS. PROVIDE Z1399-VB EXTERNAL VACUUM BREAKER WITH 3/4" MALE HOSE CONNECTION, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS, VANDAL RESISTANT OPERATING STEM, SECURED WHEEL-TYPE HANDLE. HYDRANT TO BE FINISHED WITH ROUGH BRONZE EXTERIOR.
L-1	LAVATORY - DROP IN	3/4"	3/4"	2"	2"	AMERICAN STANDARD 0643.008, AMERICAN STANDARD 6500.174	DROP IN LAVATORY, VITREOUS CHINA, SELF RIMMING WITH CUTOUT TEMPLATE SUPPLIED, FRONT OVERFLOW. FAUCET ON 8" CENTER. FAUCET: TWO-HANDLE 8" WIDESPREAD LAVATORY FAUCET WITH CONVENTIONAL SPOUT. 0.35 GPM PRESSURE COMPENSATING, VANDAL-RESISTANT MULTI-LAMINAR SPRAY FLOW.
L-2	LAVATORY - ROUND DROP IN	3/4"	3/4"	2"	2"	AMERICAN STANDARD 0475.028, AMERICAN STANDARD 5500.175	DROP IN LAVATORY, VITREOUS CHINA, SELF RIMMING WITH CUTOUT TEMPLATE SUPPLIED, FRONT OVERFLOW. FAUCET ON 4" CENTERS, ADA COMPLIANT. FAUCET: AMERICAN STANDARD MONTERREY 0.5GPM TWO-HANDLE CENTERSET LAVATORY FAUCET WITH CONVENTIONAL DOWNSPOUT. 0.5 GPM PRESSURE COMPENSATING VANDAL-RESISTANT MAULTI-LAMINAR SPRAY. ADA COMPLIANT.
L-3	LAVATORY - ROUND DROP IN	3/4"	3/4"	2"	2"	AMERICAN STANDARD 0475.047, AMERICAN STANDARD 7028.105	DROP IN LAVATORY, VITREOUS CHINA, SELF RIMMING WITH CUTOUT TEMPLATE SUPPLIED, FRONT OVERFLOW, CENTER HOLE ONLY, ADA COMPLIANT. FAUCET: AMERICAN STANDARD PARADIGM SELECTRONIC INTEGRATED PROXIMITY LAVATORY FAUCET, 0.5 GPM PRESSURE COMPENSATING, VANDAL-RESISTANT MULTI-LAMINAR SPRAY. ADA COMPLIANT. PROVIDE FAUCET WITH PK00.HAC POWER KIT WITH FAUCET. COORDINATE ALL ELECTRICAL CONNECTIONS/REQUIREMENTS WITH ELECTRICAL DRAWINGS AND MANUFACTURERS DIRECTIONS.
MS-1	MOP SINK	3/4"	3/4"	3"	2"	TERRAZZO-WARE TCR-28,T&S BRASS AND BRONZE WORKS, INC B-0665-BSTR	28X28X12 INCH HIGH WHITE MARBLE TEPRRAZZO PRECAST IN CEMENT.FLOOR MOUNTED, FRONT CORNER ROUND. FRONT SHOULDER DROPPED 6" AND CAPPED WITH STAINLESS STEEL FOR PROTECTION. OPTIONAL STAINLESS STEEL DOME STRAINER. TRIM: ASME A112.18.1 EXPOSED WALL TYPE SUPPLY WITH CROSS HANDLES, SPOUT WALL BRACE, VACUUM BREAKER, HOSE END SPOUT, STRAINERS, ECCENTRIC ADJUSTABLE INLETS
RH-1	ROOF HYDRANT	3/4"	--	--	--	WOODFORD SRH-MS	WOODFORD FREEZELESS SANITARY ROOF HYDRANT, MODEL SRH-MS, NO DRAIN REQUIRED. BACKFLOW PROTECTED, ASSE 1057 AND WEATHER PROTECTED FOR USE IN ANY WEATHER CONDITION.
RVB-1	RECESSED VALVE BOX WITH DRAIN	3/4"	--	2"	2"	GUY GRAY SSDB1	STAINLESS STEEL DRAIN OUTLET BOX WITH 2" DRAIN OPENING AND KIT, ONE 3/4" DCW VALVE, 304 STAINLESS STEEL 20 GAUGE. FOR ICE MAKER.
RVB-2	RECESSED VALVE BOX WITH DRAIN - WASHER	3/4"	3/4"	2"	2"	GUY GRAY DLWB1	DUAL CONTROL SINGLE LEVER WASHING MACHINE OUTLET BOX. VALVE SHALL BE GUY GRAY DUAL CONTROL SINGLE LEVER VALVE WITH SWEAT CONNECTION.
RVB-3	RECESSED VALVE BOX	3/4"	--	--	--	GUY GRAY BIM875	STAINLESS STEEL PERFORMED ROUGH-IN BOX WITH BRASS VALVES WITH WHEEL HANDLE SLIP IN FINISHING COVER.
SH-1	SHOWER	1/2"	1/2"	2"	2"	LEONARD 76-3A	7600 SHOWERMASTER, 1/2" INLET AND OUTLET WITH CONCEALED PIPING. COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE, BUILT IN SHUTOFF FOR SINGLE HANDLE OPERATION. 501P HAND SHOWER WITH GLIDE RAIL, AND NON-POSITIVE PUSH BUTTON SHUT-OFF, DOUBLE CHECK VALVE ASSEMBLY, ELBOW AND FLANGE. D2L-DIVERTER VALVE, FOR SWITCHING FROM SHOWER HEAD TO HAND SHOWER.
SK-1	SINK	1/2"	1/2"	2"	2"	ELKAY ECTRUAD241755,ELKAY LKD2443C	ELKAY CROSSTOWN 18 GAUGE STAINLESS STEEL 25-1/2"X18-1/2"X5-1/2" SINGLE BOWL, UNDERMOUNT, ADA SINK, 304 STAINLESS STEEL, 18 GAUGE, SINGLE REAER-CENTER DRAIN HOLE. FAUCET: ELKAY 8" CENTERSET EXPOSED DECK MOUNT FAUCET WITH ARC SPOUT AND 2-5/8" LEVER HANDLES WITH SIDE SPRAY CHROME. FAUCET FLOW RATE OF 1.5 GPM, MADE OF BRASS. REQUIRES 4 FAUCET HOLES
TG-1	TRAP GUARD	--	--	3"	--	SURE SEAL SS3009V	INLINE FLOOR DRAIN TRAP SEALER. HDPE (HIGH DENSITY POLYETHYLENE) HOUSING WITH PROPRIETARY HEAVY DUTY SILICONE DIAPHRAGM AND SOFT EPDM RUBBER SEALING GASKET.
TG-2	TRAP GUARD	--	--	4"	--	SURE SEAL SS4009V	INLINE FLOOR DRAIN TRAP SEALER. HDPE (HIGH DENSITY POLYETHYLENE) HOUSING WITH PROPRIETARY HEAVY DUTY SILICONE DIAPHRAGM AND SOFT EPDM RUBBER SEALING GASKET.
TMV-1	THERMOSTATIC MIXING VALVE	--	--	--	--	POWERS ES15022 HYDROGUARD XP SERIES	CHROME PLATED CAST BRASS BODY, STAINLESS STEEL OR COPPER ALLOY BELLOWS, CERTIFIED TO ASSE STANDARD 1071, COMPLETE WITH COLD-WATER BYPASS. 12.3 GPM AT 60 PSI PRESSURE DROP, MOUNT VALVE IN PIPING UNDER LAVATORY. LEAD FREE. LAWLER, POWERS, SYMMONS, OR APPROVED EQUAL.
U-1	URINAL - WALL MOUNTED	3/4"	--	3"	2"	AMERICAN STANDARD 6590.001. SLOAN 111-1.28	WALL MOUNTED, WHITE VITREOUS CHINA, 0.125 GPF TO 1.0 GPM FLUSH CAPACITY, FLUSHING RIM, SIPHON JET FLUSH ACTION, 3/4" INLET TOP SPUD. MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS. ADA/ANSI A117.1 & ASME A112.19.2. MANUAL URINAL FLUSHOMETER. 0.5 GPF, DUAL-FILTERED FIXED BYPASS DIAPHRAGM, POLISHED CHROME FINISH, SINGLE FLUSH, ELECTRICAL OVERRIDE, BATTERY, SLOAN EXPOSED SENSOR WATER CLOSET FLUSHOMETER. USE ZURN Z1222 CARRIER.
WC-1	WATER CLOSET - FLOOR MOUNTED REAR-DISCHARGE	1-1/2"	--	4"	2"	AMERICAN STANDARD 3312.001, SLOAN 111-1.28	FLOOR MOUNTED ELONGATED MANUAL FLUSHOMETER VALVE TOILET, WHITE VITREOUS CHINA, HIGH EFFICIENCY, LOW CONSUMPTION. OPERATES IN THE RANGE OF 1.28 GPF. DIRECT-FED SIPHON JET ACTION, 1-1/2" INLET TOP SPUD. MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS. SLOAN ROYAL MODEL FLUSHOMETER 111-1.28, ASME A112, 18, 1: EXPOSED WATER CLOSET FLUSHOMETER, FOR FLOOR MOUNTED OR WALL HUNG TOP SPUD BOWL, HIGH EFFICIENCY 1.28 GPF QUIET, EXPOSED. DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER FOR LEFT OR RIGHT HAND SUPPLY.
WC-2	WATER CLOSET - FLOOR MOUNTED REAR-DISCHARGE ADA	1-1/2"	--	4"	2"	AMERICAN STANDARD 3312.001, SLOAN 111-1.28	FLOOR MOUNTED ELONGATED MANUAL FLUSHOMETER VALVE, ADA COMPLIANT TOILET, WHITE VITREOUS CHINA, HIGH EFFICIENCY, LOW CONSUMPTION. OPERATES IN THE RANGE OF 1.28 GPF. DIRECT-FED SIPHON JET ACTION, 1-1/2" INLET TOP SPUD, MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS. SLOAN ROYAL MODEL FLUSHOMETER 111-1.28, ASME A112, 18, 1: EXPOSED WATER CLOSET FLUSHOMETER, FOR FLOOR MOUNTED OR WALL HUNG TOP SPUD BOWL, HIGH EFFICIENCY 1.28 GPF QUIET, EXPOSED. DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER FOR LEFT OR RIGHT HAND SUPPLY.
WH-1	WALL HYDRANT	3/4"	--	--	--	ZURN Z1320-EZ	ENCASED ECOLOTROL "ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT FOR FLUSHING INSTALLATION. INTEGRAL BACKFLOW PREVENTER, COPPER CASING, ALL BRONZE INTERIOR PARTS WITH 1/2 TURN CERAMIC DISC CARTRIDGE. STAINLESS STEEL BOX AND HINGED COVER WITH OPERATING KEY LOCK.
WS-1	WASHING STATION	3/4"	3/4"	--	--	STRAHMAN M-200TS, M-70 SERIES HOSE ASSEMBLY	THERMOSTATICALLY CONTROLLED HOT AND COLD WATER MIXING UNIT. RUGGED BRONZE AND STAINLESS STEEL CONSTRUCTION AND SUPERB QUALITY FOR SUPERIOR THERMOSTATIC CONTROL. THE UNIT'S ACCURATE THERMOSTAT OR PRESSURE FLUCTUATIONS OR TEMPERATURE. SINGLE LEVEL ON/OFF OPERATION. ADJUSTABLE TEMPERATURE LIMIT STOP FOR MAXIMUM SAFETY. MAXIMUM WATER TEMPERATURE: 120F. MAXIMUM WORKING PRESSURE: 125PSI. ANTI-SCALDING WITH LOSS OF COLD WATER UNIT SHUT OFF HOT AUTOMATICALLY. WITH M-70 SERIES PREMIUM HOSE ASSEMBLY AND NOZZLE. PROVIDE HOT AND COLD WATER CONNECTIONS WITH STRAVAL OKV-3/4" INLINE SPRING VACUUM BREAKER CHECK VALVES (OR APPROVED EQUAL).

NOTES:
1. ROUGH-IN SUPPLY WASTE AND VENT PIPE SIZES INDICATED ARE MINIMUM SIZES SHOWN FOR ROUGH-IN ONLY.
2. COORDINATE WITH PLUMBING FIXTURE MANUFACTURER'S INSTALLATION DRAWING FOR PROPER INSTALLATION OF ALL FIXTURES.
3. ALL PLUMBING FIXTURES SHALL BE COMPLETELY ROUGHED-IN BY THE PLUMBING CONTRACTOR AND SHALL MEET APPLICABLE CODES AND REQUIRMENTS OF AUTHORITIES HAVING JURISDICTION.
4. ALL FIXTURES TO BE COMMERCIAL GRADE UNLESS OTHERWISE NOTED.
5. PROVIDE A WATER HAMMER ARRESTOR IN PIPING TO ALL FIXTURES AND/OR FIXTURE BANKS.
6. PROVIDE SCHEDULED TMV-1 FOR MWL SCHEDULED FIXTURES, EMERGENCY SHOWER / EYEWASH (EWS), AND DRENCH HOSE EYEWASH (EW).

DRAIN SCHEDULE

DESIGNATION	MANUFACTURER	MODEL	FIXTURE TYPE	DESCRIPTION
4" OD-1	JAY R SMITH	1080-04	OVERFLOW DRAIN	DUCO CAST IRON BODY, FLASHING CLAMP AND GRAVEL STOP WITH POLYETHELENE DOME, PVC STANDPIPE OR CAST IRON WATER
4" RD-1	JAY R SMITH	1010-04	ROOF DRAIN	CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH DOME.
6" OD-1	JAY R SMITH	1080-06	OVERFLOW DRAIN	DUCO CAST IRON BODY, FLASHING CLAMP AND GRAVEL STOP WITH POLYETHELENE DOME, PVC STANDPIPE OR CAST IRON WATER
6" RD-1	JAY R SMITH	1010-06	ROOF DRAIN	CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH DOME.
FD-1	JAY R SMITH	2005-A06NB-P	FLOOR DRAIN	ASME A112.21.1, LACQUERED CAST IRON, TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR AND ROUND TOP. ADJUSTABLE NICKLE BRONZE STRAINER.
FD-2	JAY R SMITH	2108Y	FLOOR DRAIN (TRAFFIC RATED)	DUCO CAST IRON BODY, COLLAR AND NON-TILTING SLITTED ADA GRATE, LOAD RATING: HEAVY-DUTY BETWEEN 5000-7499 LBS PER ASME A112.6.3 FLOOR DRAIN STANDARD. NO-HUB OUTLET
FFD-1	JAY R SMITH, SLOAN	2500C, 150-1.6-WB-1-A	LABORATORY FLUSHING FLOOR DRAIN	FLUSHING TYPE LABORATORY AND INSTITUTIONAL DRAIN WITH HINGED PERFORATED GRATE. DUCCO CAST IRON BODY AND FLANGED WITH ACID RESISTANT COATED INTERIOR AND NICKEL BRONZE TOP WITH VANDAL PROOF SCREWS. ACCESSORIES: WALL BOX - CONCEALED WATER CLOSET FLUSHOMETER 1" IPS OUTLET, FOR BOWLS AND FLUSHING RIM FLOOR DRAINS.
FS-1	JAY R SMITH	3410Y-12	FLOOR SINK	SANICEPTOR ACID RESISTANT COATED FLOOR SINK. CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, AND LOOSE SET ACID RESISTANT COATED CAST IRON GRATE. ALUMINUM DOME BOTTOM STRAINER. GRATE OPTION: A.R.C. ½ GRATE.
ODS	ZURN	ZF199	PERFORATED DOWNSPOUT NOZZLE	ALUMINUM BODY, DOWNSPOUT GASKET FOR CAST IRON INLET WITH POWDER-COATED FACE OF WALL FLANGE, OUTLET NOZZLE AND PERFORATED HINGED FLAPPER. FOR 4" AND 8" STORM OVERFLOW DRAIN PIPE(S).

WATER HEATER SCHEDULE

ITEM TYPE	ITEM NO.	EQUIPMENT DESCRIPTION	DIAMETER [IN]	STORAGE [GAL]	RECOVERY [GPH]	OPERATING TEMP. [°F]	GAS INPUT [BTU/h] [1000 BTU/h = 1 CFH]	FLUE DIA [IN]	LOCATION	MANUFACTURER	MODEL NO.	NOTES
GWH	1	GAS WATER HEATER	27-3/4"	100	198	140	150000	0"	M&E 410	A.O. SMITH	BTH-150(A)	1, 2
GWH	2	GAS WATER HEATER	27-3/4"	100	198	140	150000	0"	M&E 410	A.O. SMITH	BTH-150(A)	1, 2

NOTES:
1. PROVIDE WITH MANUFACTURER'S CONCENTRIC VENT KIT.
2. PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZER KIT A2123601.

PIPE INSULATION SCHEDULE

SYSTEM	PIPE SIZES	INSULATION THICKNESS (IN.)	MATERIAL
DOMESTIC COLD WATER PIPING (IN EXTERIOR WALLS AND ATTIC)	1" AND SMALLER	1" THICK	MINERAL FIBER, PREFORMED, TYPE 1
DOMESTIC COLD WATER PIPING (IN EXTERIOR WALLS AND ATTIC)	1-1/4" AND LARGER	1" THICK	MINERAL FIBER, PREFORMED, TYPE 1
DOMESTIC HOT WATER AND HOT WATER RETURN PIPING	1-1/4" AND SMALLER	1" THICK	MINERAL FIBER, PREFORMED, TYPE 1
DOMESTIC HOT WATER AND HOT WATER RETURN PIPING	1-1/2" AND LARGER	1-1/2" THICK	MINERAL FIBER, PREFORMED, TYPE 1
FLOOR DRAINS, TRAPS, AND SANITARY WASTE PIPING WITHIN 20 FT. OF DRAIN RECEIVING CONDENSATE BELOW 60 DEG. F	ALL	1" THICK	MINERAL FIBER, PREFORMED, TYPE 1
ROOF DRAIN / OVERFLOW DRAIN BODIES	ALL	1" THICK	MINERAL FIBER, PREFORMED, TYPE 1
STORM AND OVERFLOW PIPING (VERTICAL PIPING FROM DRAIN ELBOW, HORIZONTAL PIPE AND FIRST ELBOW DOWN)	ALL	1" THICK	MINERAL FIBER, PREFORMED, TYPE 1

PLUMBING PUMP SCHEDULE

DESIGNATION TYPE	DESIGNATION NO.	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NO.	CAPACITY (GPM)	PUMP HEAD (FT WC)	LOCATION	NOTES
HWCP	1	HOT WATER RECIRCULATION PUMP	GRUNDFOS	MAGNA3 32-60 F N	100 GPM	9	M&E ROOM 122	1, 2

NOTES:
1. PUMP TO HAVE FLOW LIMITING FEATURES TO ELIMINATE NEED OF AQUASTAT, TIMER, AND BALANCING VALVE.
2. PUMP TO HAVE INTEGRAL TEMPERATURE SENSOR TO CONTROL BY CONSTANT TEMPERATURE.

WATER HAMMER ARRESTOR SCHEDULE

SYMBOL	FIXTURE UNIT	SIZE NPT
WHA-A	1-11	1/2"
WHA-B	12-32	3/4"
WHA-C	33-60	1"
WHA-D	61-113	1-1/4"
WHA-E	114-154	1-1/2"
WHA-F	155-330	2"

NOTES:
1. ALL ARRESTORS SHALL BE ACCESSIBLE OR HAVE ACCESS PANELS.
2. WATER HAMMER ARRESTORS SHALL BE PROVIDED AT EVERY DOMESTIC HOT AND COLD WATER DROP TO EVERY FIXTURE.
3. MATCH TOTAL FIXTURE UNITS OF BRANCH LINES TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

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INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.EconstrInc-AD.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

PLUMBING SCHEDULES

P0.01

DRG REFERENCE

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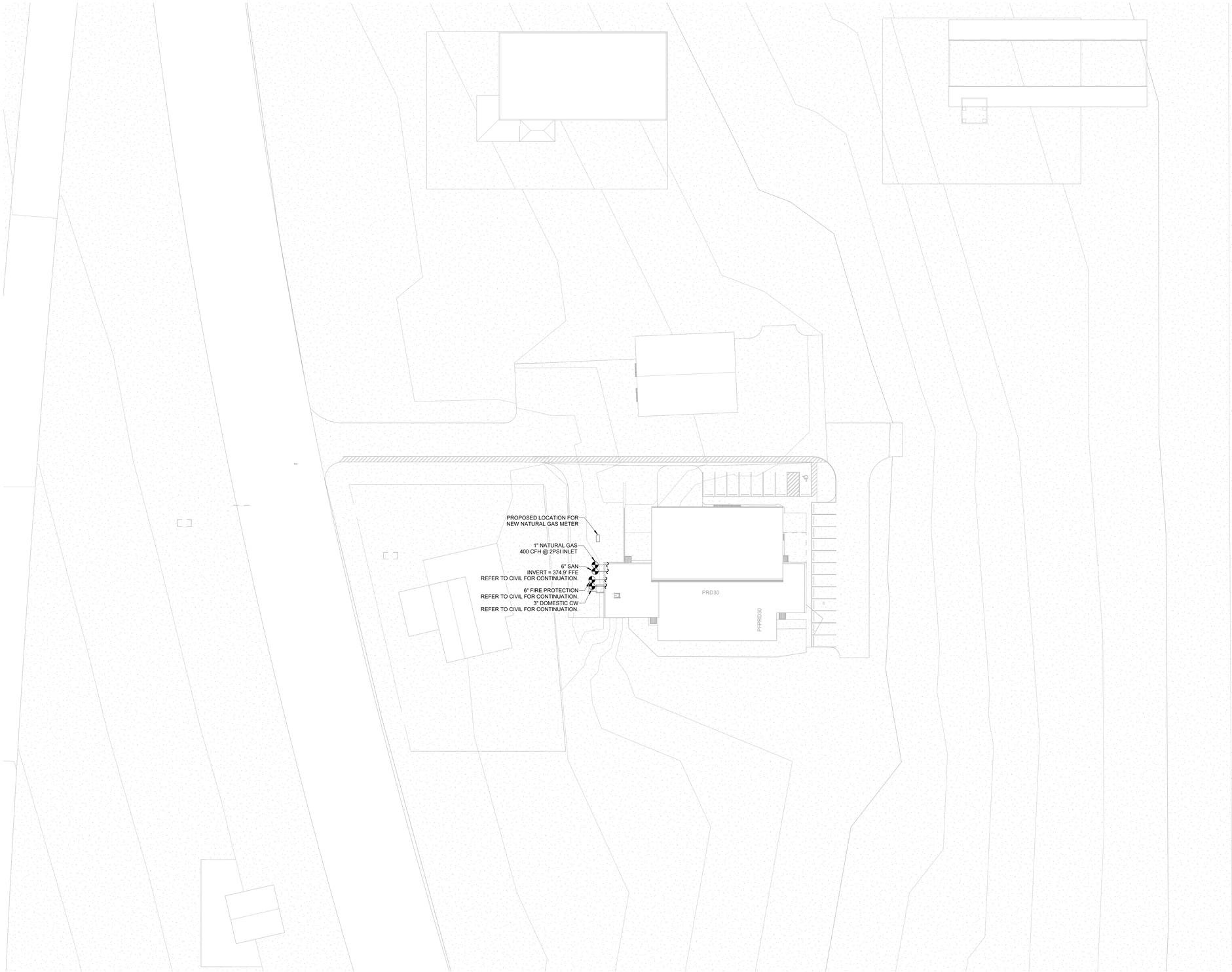

1 PLUMBING SITE PLAN
1" = 30'-0"

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

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PROJECT NO: 24-0035-00
DATE: 20250308

PLUMBING SITE PLAN

P1.01

DRG REFERENCE

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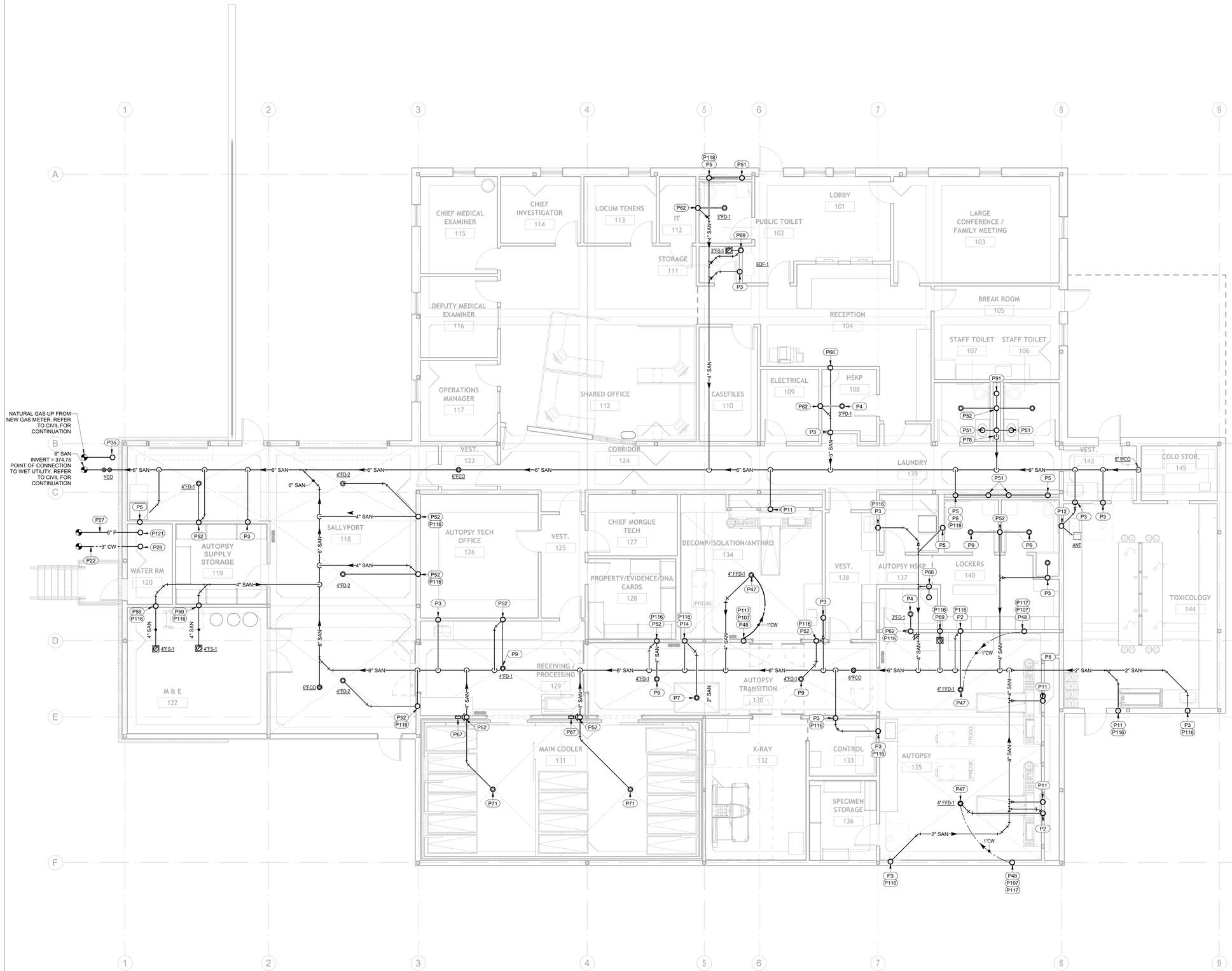

PLUMBING KEYED NOTES

(KEYED NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

- P2 2" VENT UP AND 4" SANITARY WASTE DOWN FROM FLUSHING FLOOR DRAIN.
- P3 2" VENT UP AND 2" SANITARY WASTE DOWN FROM FIXTURE.
- P4 2" VENT UP AND 3" SANITARY WASTE DOWN FROM FIXTURE.
- P5 2" VENT UP AND 4" SANITARY WASTE DOWN FROM FIXTURE.
- P6 ROUTE SANITARY WASTE FROM FIXTURE ABOVE SLAB WITHIN THE WALL. CONNECT TO WATER CLOSET SANITARY LINE BEFORE PENETRATION.
- P7 2" SAN WASTE DOWN FROM FLOOR DRAIN ABOVE.
- P9 4" SAN WASTE DOWN FROM FLOOR DRAIN ABOVE.
- P11 2" VENT UP AND 2" SAN DOWN FROM AUTOPSY FIXTURE. COORDINATE EXACT LOCATION OF STUB UP WITH AUTOPSY TABLE MANUFACTURER'S DRAWINGS PRIOR TO ROUGH-IN.
- P12 2" VENT UP AND 2" SAN DOWN FROM ACID NEUTRALIZATION TANK BELOW SINK. ACID NEUTRALIZATION TANK SERVE BOTH SINK AND DISH-WASHER IN CABINET, RE: DETAIL 12/P5.01 FOR MORE INFORMATION.
- P14 2" VENT UP AND 2" SAN WASTE DOWN FROM IN-FLOOR SCALE PIT ABOVE. COORDINATE DEPTH WITH MANUFACTURER PRIOR TO CONSTRUCTION.
- P22 3" WATER LINE FROM CITY. RE: CIVIL FOR CONTINUATION. RE: DETAIL 10/P5.02 FOR MORE INFORMATION.
- P27 6" FIRE MAIN LINE. RE: CIVIL FOR CONTINUATION. RE: DETAIL 13/P5.01 FOR MORE INFORMATION.
- P28 3" DOMESTIC WATER SERVICE UP TO OVERHEAD SPACE, RE: DETAIL 10/P5.02 FOR MORE INFORMATION.
- P35 1" GAS LINE TO SERVE 400 CFH BUILDING DEMAND AT 2PSI BUILDING PRESSURE, RE: 2/P6.01 FOR NATURAL GAS RISER.
- P47 4" SAN WASTE DOWN FROM FLUSHING FLOOR DRAIN. 1" CW LINE FROM WALL BOX FLUSH VALVE TO DRAIN.
- P48 1" CW DOWN TO WALL BOX FOR FLUSHING FLOOR DRAIN.
- P51 2" VENT UP AND 2" SANITARY WASTE DOWN FROM LAVATORY. 3/4" CW AND 3/4" HW SERVICE TO TMV-1 FOR LAVATORY FAUCET.
- P52 2" VENT UP AND 4" SANITARY WASTE DOWN FROM FLOOR DRAIN(S). SUPPLY DRAIN(S) WITH TRAP GUARD TG-2.
- P59 2" VENT UP AND 4" SANITARY WASTE DOWN FROM FLOOR SINK. SUPPLY DRAIN WITH TRAP GUARD TG-2.
- P62 2" VENT UP AND 3" SANITARY WASTE DOWN FROM FLOOR DRAIN. SUPPLY DRAIN WITH TRAP GUARD TG-1.
- P66 2" VENT UP AND 3" SANITARY WASTE DOWN FROM MOP SINK. 3/4" CW WITH TMV-1 AND 3/4" HW DOWN TO FAUCET.
- P67 2" VENT UP AND 2" WASTE DOWN FROM DRAIN BOX.
- P69 2" VENT UP AND 3" SAN DOWN FROM FLOOR SINK.
- P71 COORDINATE DEPTH OF DRAIN WITH COOLER PANEL MANUFACTURER.
- P78 2" VENT AND 4" SANITARY DOWN FROM BATHGROUP.
- P91 2" VENT UP AND 4" SAN WASTE DOWN FROM BACK-TO-BACK SANITARY FIXTURES.
- P107 ROUTE WATER LINES THROUGH SLAB TO CLEAR STRUCTURAL FOOTING BELOW. ROUTE 1" CW SERVICE BELOW BOTTOM OF SLAB. COORDINATE WATER LINE IN SLAB ELEVATIONS WITH STRUCTURAL PRIOR TO CONSTRUCTION.
- P116 3" SLEEVE REQUIRED IN STRUCTURAL FOUNDATION FOR SANITARY/VENT PIPING SERVING FIXTURE ABOVE. REFER TO STRUCTURAL PLANS FOR PENETRATION DETAILS.
- P117 2" SLEEVE REQUIRED IN STRUCTURAL FOUNDATION FOR CW PIPING SERVING FLUSHING FLOOR DRAIN ABOVE. REFER TO STRUCTURAL PLANS FOR PENETRATION DETAILS.
- P118 5" SLEEVE REQUIRED IN STRUCTURAL FOUNDATION FOR SANITARY/VENT PIPING SERVING FIXTURE ABOVE. REFER TO STRUCTURAL PLANS FOR PENETRATION DETAILS.
- P121 6" FIRE RISERS ROUTED TO OVERHEAD SPACE, RE: DETAIL 13/P5.01 FOR MORE INFORMATION. REFER TO FIRE SPRINKLER CONTRACTOR DRAWINGS FOR MORE INFORMATION.

1 PLUMBING UNDERFLOOR PLAN - FIRST FLOOR - OVERALL
3/16" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
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SUITE 175
SAN ANTONIO, TEXAS 78216
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PROJECT NO: 24-0035-00
DATE: 20250308

PLUMBING UNDERFLOOR PLAN

PU2.01

DRG REFERENCE

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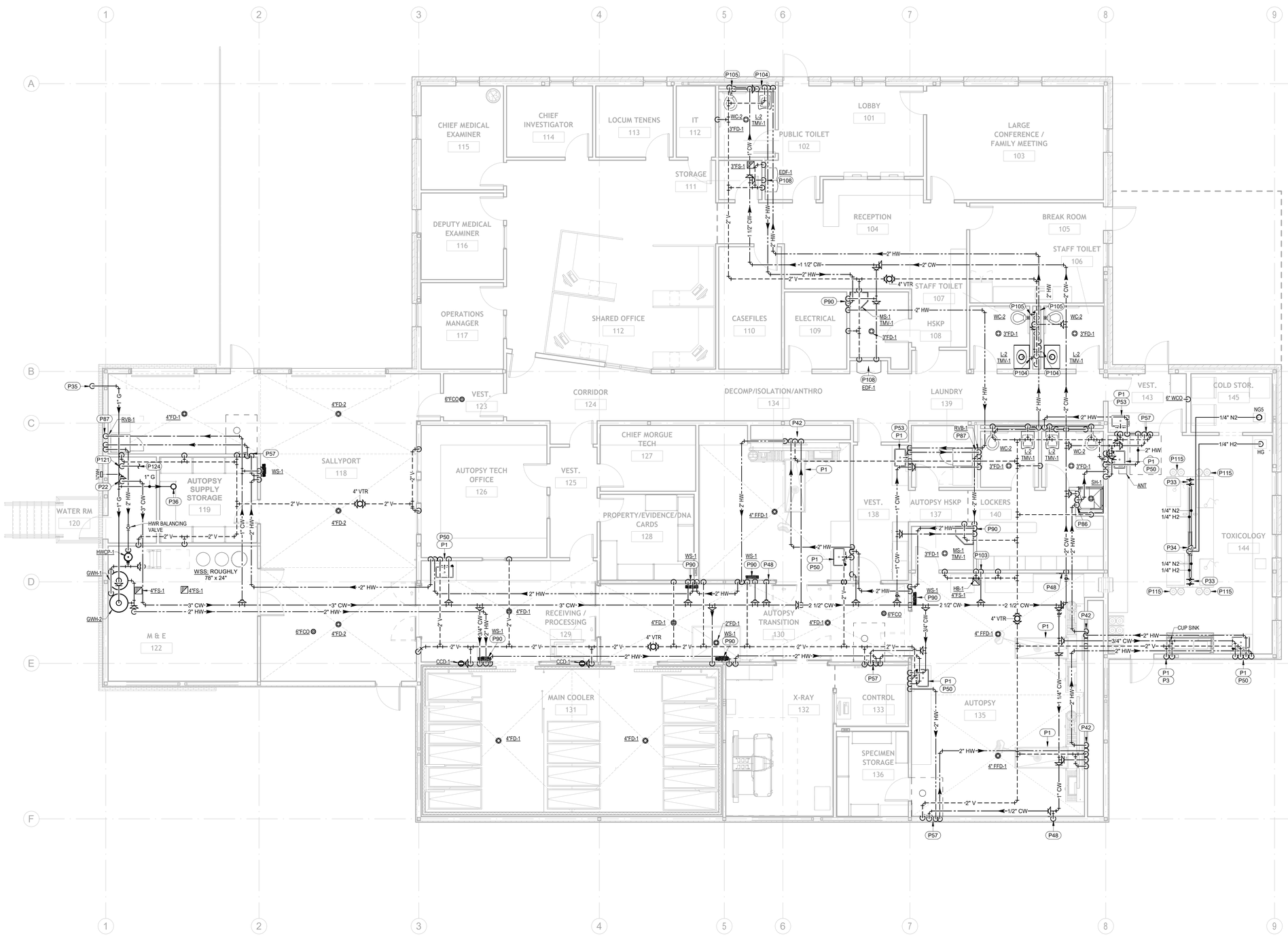

PLUMBING KEYED NOTES

(KEYED NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

P1	AUTOPSY FIXTURE SPECIFIED BY MWL ARCHITECTS. COORDINATE EXACT CONNECTION REQUIREMENTS AND LOCATIONS WITH AUTOPSY EQUIPMENT SCHEDULE AND SPECIFICATION BOOK PROVIDED BY ARCHITECT.
P3	2" VENT UP AND 2" SANITARY WASTE DOWN FROM FIXTURE.
P22	3" WATER LINE FROM CITY. RE: CIVIL FOR CONTINUATION. RE: DETAIL 10/P5.02 FOR MORE INFORMATION.
P33	LAB GAS VALVE OUTLETS, TO BE CONNECTED PER MANUFACTURERS SPECIFICATIONS. REFER TO MWL LAB SHEETS FOR TABLE INFORMATION.
P34	1/4"N2 AND 1/4"H2 LAB GASSES DOWN THROUGH CHASE TO ISLAND TABLE IN TOXICOLOGY. REFER TO MWL DETAILS FOR MORE INFORMATION ON GAS CONNECTIONS AND WALL CLEARANCES.
P35	1" GAS LINE TO SERVE 400 CFH BUILDING DEMAND AT 2PSI BUILDING PRESSURE, RE: 2/P6.01 FOR NATURAL GAS RISER.
P36	1" GAS SERVICE FROM LEVEL 1 OVERHEAD UP TO RTU-3 ON ROOF (100 CFH).
P42	1/2"CW AND 1/2"HW SUPPLY TO AUTOPSY TABLE ME1. 2" VENT FROM TABLE DRAIN UP. REFER TO MWL DETAILS FOR EQUIPMENT INFORMATION.
P48	1" CW DOWN TO WALL BOX FOR FLUSHING FLOOR DRAIN.
P50	2" VENT UP AND 2" SANITARY WASTE DOWN FROM SINK. 3/4" CW AND 3/4" HW SERVICE TO BOTH TMV-1 FOR FAUCET AND AP3800 TMV FOR EW. REFER TO MWL LAB SHEETS FOR MORE INFORMATION ON EW.
P53	2" VENT UP AND 2" SANITARY WASTE DOWN FROM SINK. 3/4" CW AND 3/4" HW SERVICE TO TMV-1 FOR FAUCET.
P57	1/2" CW AND HW DOWN TO EWS. REFER TO MWL LAB SHEETS FOR MORE INFORMATION.
P86	3/4" DCW AND 3/4" DHW DOWN TO SHOWER, SH-1. PROVIDE FLOOR DRAIN, FD-1 WITH TRAP GUARD, TG-1 FOR SHOWER DRAINAGE.
P87	3/4" CW, 3/4" HW DOWN AND 2" WASTE FROM RVB-1 SERVING COMMERCIAL WASHER/DRYER.
P90	3/4" CW AND 3/4" HW DOWN TO WASH STATION, WS-1.
P103	3/4" CW SERVICE TO HOSE-BIBB (HB-1).
P104	3/4" CW AND 3/4" HW DOWN TO SERVE LAVATORY.
P105	1" CW DOWN TO SERVE WATER CLOSET.
P108	3/4" CW DOWN AND 2" VENT UP SERVING EDF-1.
P115	LAB GAS TANKS DIRECTLY CONNECTED TO EQUIPMENT BY MANUFACTURER.
P121	6" FIRE RISERS ROUTED TO OVERHEAD SPACE, RE: DETAIL 13/P5.01 FOR MORE INFORMATION. REFER TO FIRE SPRINKLER CONTRACTOR DRAWINGS FOR MORE INFORMATION.
P124	X-RAY ROOM TO BE PROTECTED BY DEDICATED DRY PIPE FIRE PROTECTION SYSTEM WITH TEMPERATURE AND SMOKE SENSORS. FIRE PROTECTION CONTRACTOR TO SIZE, SPECIFY, FURNISH AND INSTALL DRY PIPE FIRE PROTECTION SYSTEM AND ANCILLARY ITEMS. COORDINATE ALL ELECTRICAL DEMAND WITH ELECTRICAL CONTRACTOR PRIOR TO BID.

1 PLUMBING PLAN - FIRST FLOOR - OVERALL
3/16" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

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SUITE 175
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PLUMBING FLOOR PLAN

P2.01

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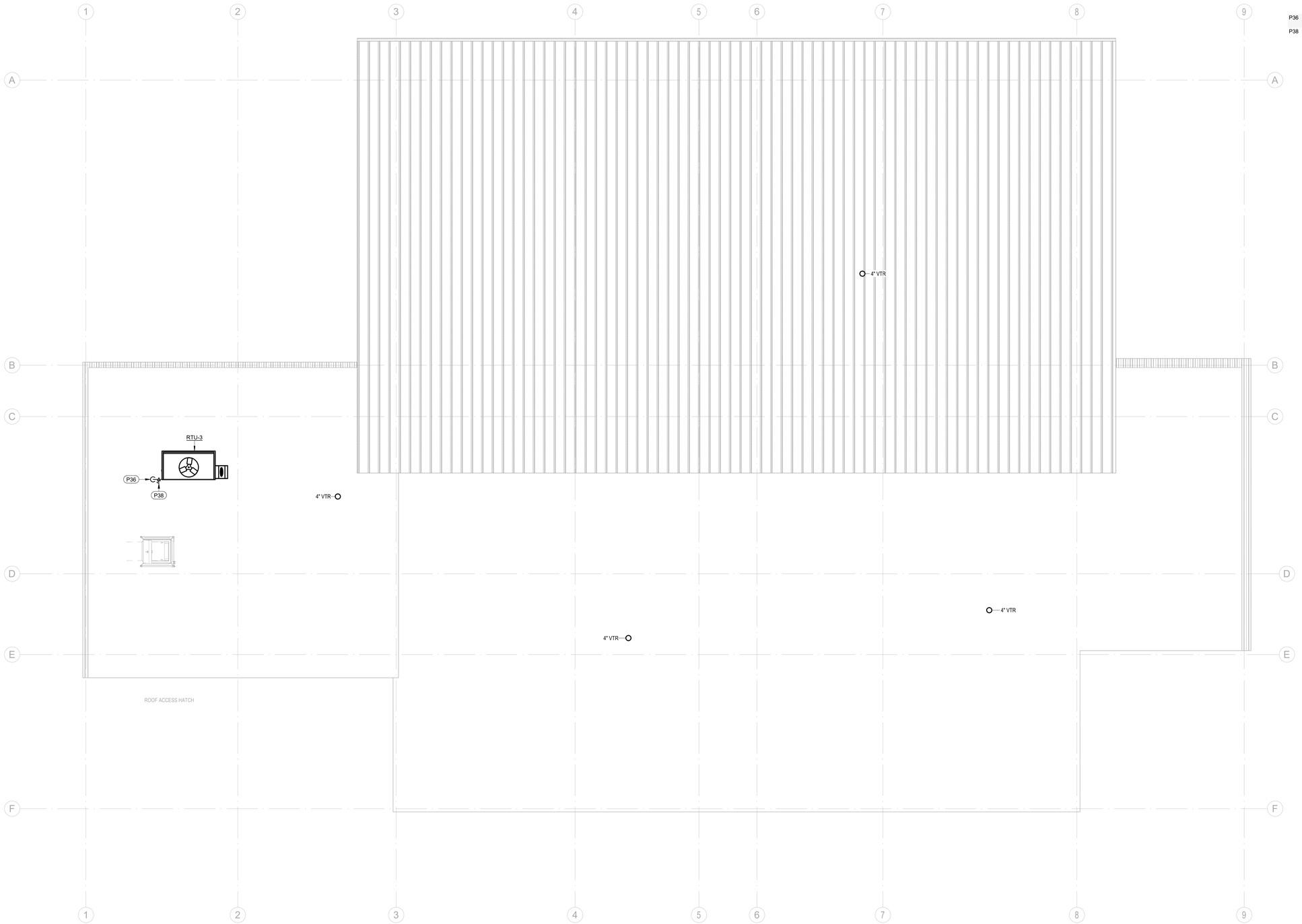

1 PLUMBING PLAN - ROOF - OVERALL
3/16" = 1'-0"

PLUMBING KEYED NOTES

(KEYED NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

P36 1" GAS SERVICE FROM LEVEL 1 OVERHEAD UP TO RTU-3 ON ROOF (100 CFH).

P38 MANUFACTURER PROVIDED GAS PRESSURE REGULATOR TO REDUCE SERVICE PRESSURE. REGULATOR TO BE SET AT MANUFACTURERS SPECIFIED OPERATING PRESSURE FOR EQUIPMENT.

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PLUMBING ROOF PLAN

P2.02

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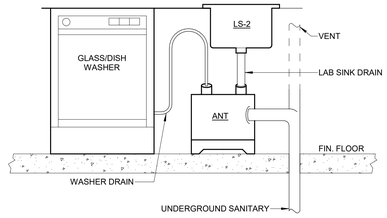
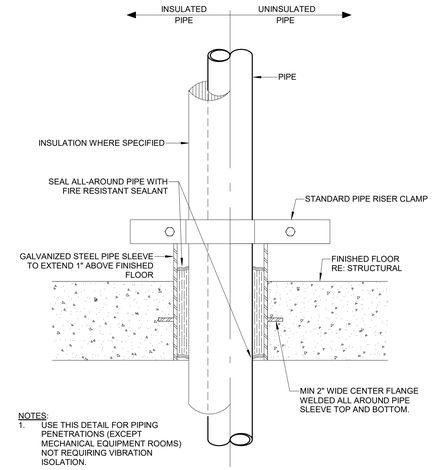
DESIGNED BY: Designer

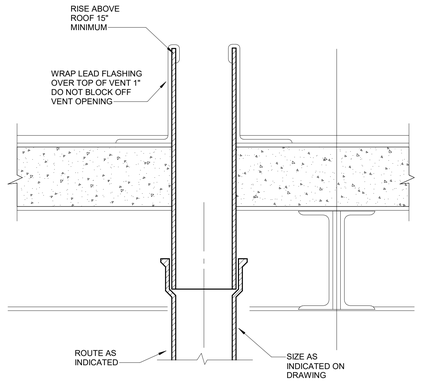


12 ACID NEUTRALIZATION KIT
NTS

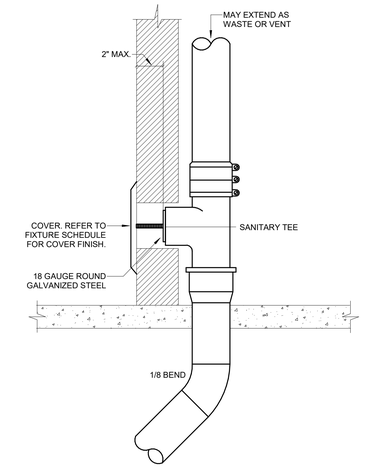


NOTES:
1. USE THIS DETAIL FOR PIPING PENETRATIONS (EXCEPT MECHANICAL EQUIPMENT ROOMS) NOT REQUIRING VIBRATION ISOLATION.

9 PIPE SLEEVE THRU FLOOR DETAIL
NTS



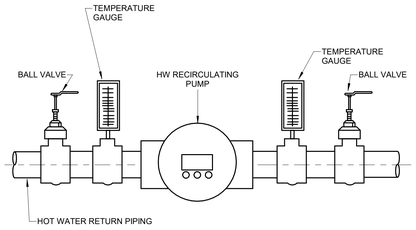
6 VENT PENETRATION THROUGH ROOF DETAIL
NTS



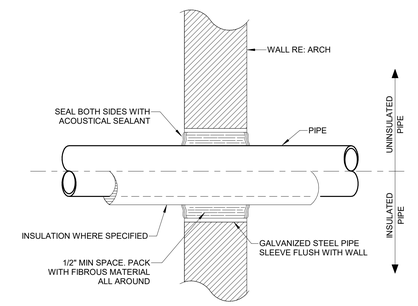
3 WALL CLEANOUT (WCO)
NTS

NOTE:

1. THE MAGNA RECIRC PUMP SHALL BE INSTALLED WITH FLOW IN THE DIRECTION OF THE ARROW ON THE PLANS. THE WATER TEMPERATURE SHALL BE 120 DEGREES FAHRENHEIT AND MAINTAIN A DELTA T OF +/-10 DEGREES FAHRENHEIT. FLOW VELOCITY MUST BE BETWEEN 6-7 FPS.
2. SEE FLOOR PLAN FOR LOCATION AND SIZE.

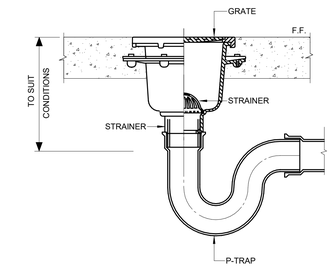


11 DHWR RECIRCULATING PUMP DETAIL
NTS



NOTE:
WHERE PIPING IS EXPOSED TO VIEW PROVIDE WITH ESCUTCHEON.

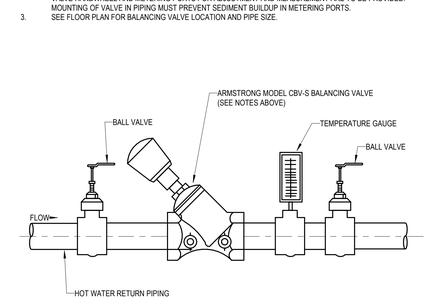
8 PIPE PENETRATION THRU NON-FIRE RATED WALL DETAIL
NTS



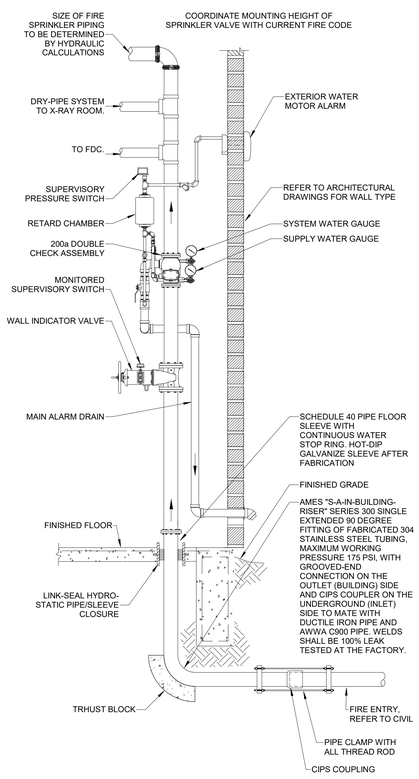
5 FLOOR SINK
NTS

NOTE:

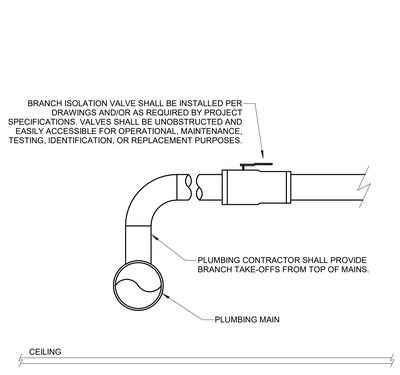
1. EACH VALVE SHALL BE FURNISHED WITH A PRE-FORMED REMOVABLE PVC INSULATION JACKET.
2. THE VALVE SHALL BE INSTALLED WITH FLOW IN THE DIRECTION OF THE ARROW ON THE VALVE BODY AND INSTALLED AT LEAST FIVE PIPE DIAMETERS DOWNSTREAM FROM ANY FITTING AND AT LEAST TEN PIPE DIAMETERS DOWNSTREAM FROM ANY PUMP. TWO PIPE DIAMETERS DOWNSTEAM FROM THE BALANCING VALVE SHOULD BE FREE OF ANY FITTINGS. WHEN INSTALLED, EASY AND UNOBSTRUCTED ACCESS TO THE VALVE HANDWHEEL AND METERING PORTS FOR ADJUSTMENT AND MEASUREMENT ARE TO BE PROVIDED. MOUNTING OF VALVE IN PIPING MUST PREVENT SEDIMENT BUILDUP IN METERING PORTS.
3. SEE FLOOR PLAN FOR BALANCING VALVE LOCATION AND PIPE SIZE.



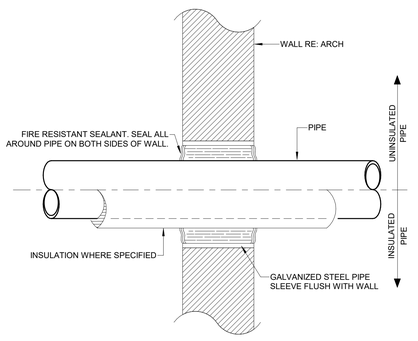
2 HOT WATER RETURN BALANCING VALVE DETAIL
NTS



13 FIRE SERVICE ENTRY
NTS

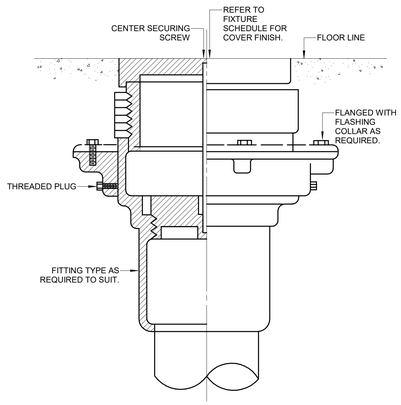


10 BRANCH TAKE-OFF
NTS

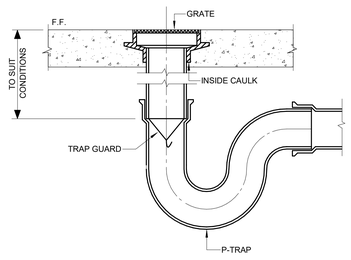


NOTES:
1. WHERE PIPING IS EXPOSED TO VIEW PROVIDE WITH ESCUTCHEON.
2. SEAL PENETRATION BETWEEN PIPE AND SLEEVE.

7 PIPE PENETRATION THRU FIRE RATED WALL DETAIL
NTS



4 FLOOR CLEANOUT
NTS



1 FLOOR DRAIN
NTS

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PROJECT NO: 24-0035-00
DATE: 20250308

PLUMBING DETAILS

P5.01

DRG REFERENCE

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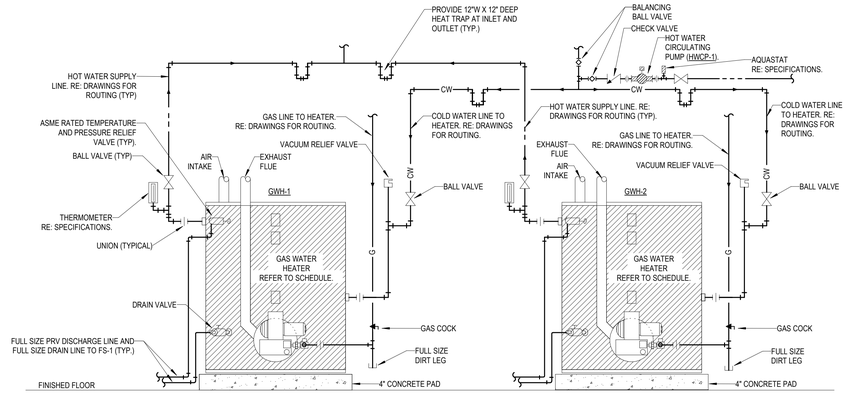
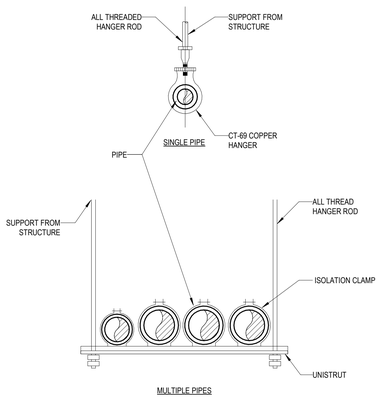
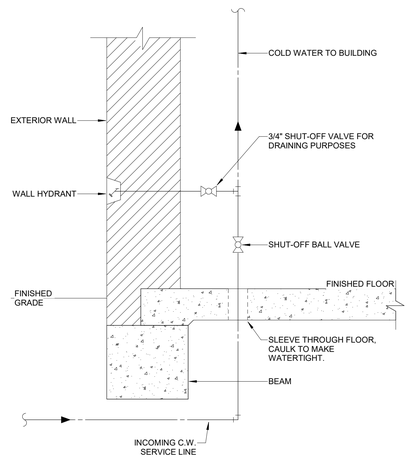


NOTES:
1. ALL PIPING SHALL BE SECURED TO MAKE RIGID.
2. ALL LINES TO BE FULL SIZE TO POINT OF CONNECTION AT HEATER.
3. REFER TO FIXTURE SCHEDULE FOR SIZE OF WATER HEATER. FOR ELECTRICAL CONNECTION. RE: ELECTRICAL DWGS.

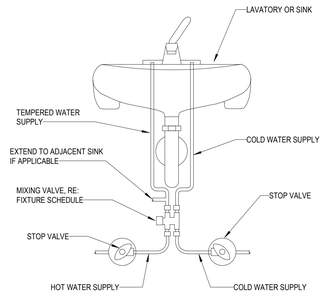
2 NATURAL GAS WATER HEATER 2 IN TANDEM W CIRC PUMP
NTS



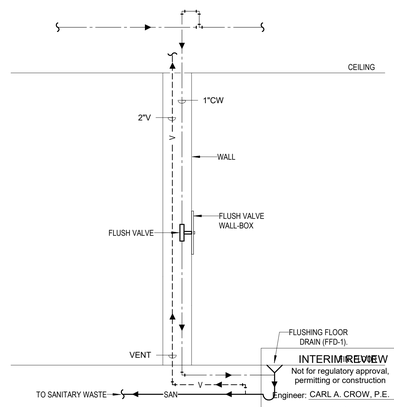
13 PIPE HANGER
NTS



3 DOMESTIC WATER LINE ENTRY - BELOW SLAB
1/8" = 1'-0"



7 MIXING VALVE DETAIL
NTS



1 FLUSHING FLOOR DRAIN
NTS

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DESIGNED BY: Designer

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TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 24-0035-00
DATE: 20250308

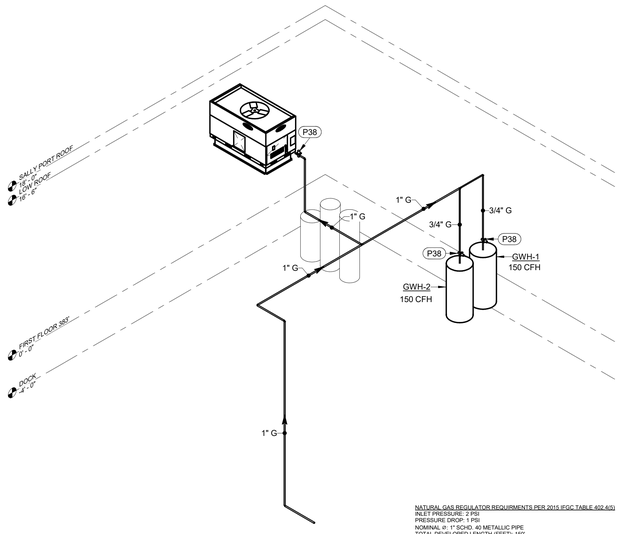
PLUMBING DETAILS

P5.02

DRG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

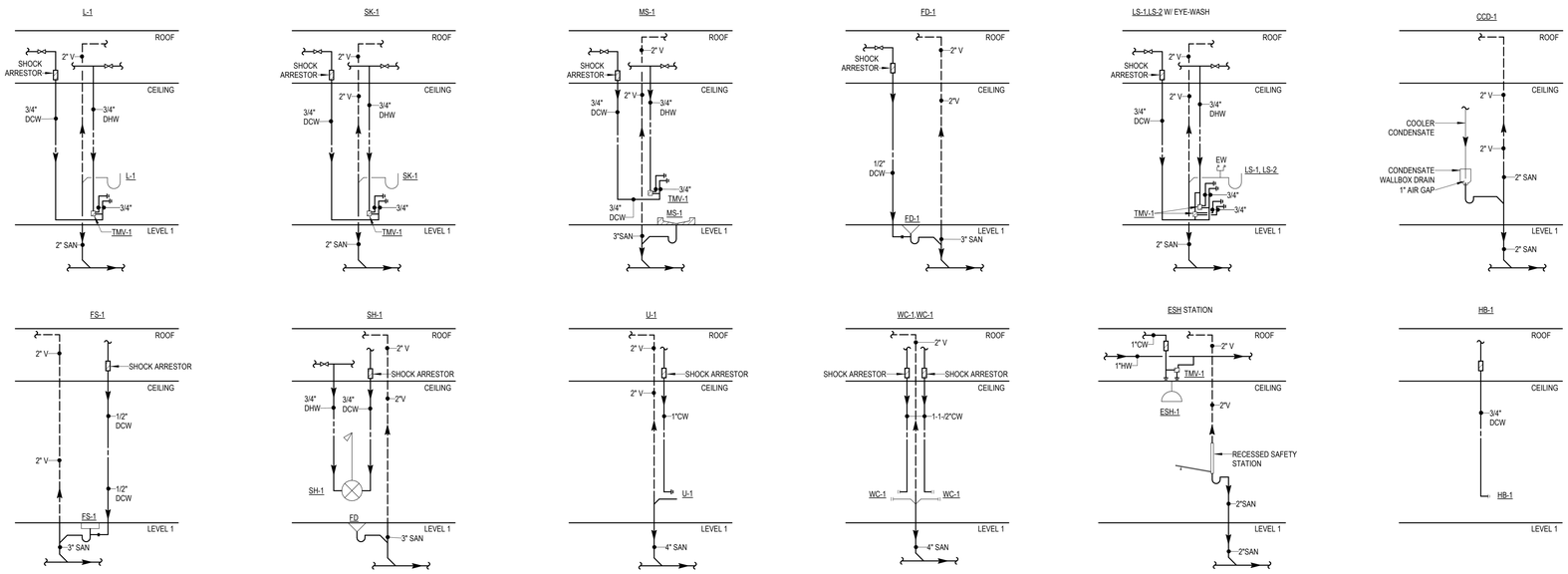
2/28/2025 10:54:59 AM



NATURAL GAS REGULATOR REQUIRMENTS PER 2015 IFGC TABLE 402.4(5)
INLET PRESSURE: 2 PSI
PRESSURE DROP: 1 PSI
NOMINAL Ø: 1" SCHD. 40 METALLIC PIPE
TOTAL DEVELOPED LENGTH (FEET): 150'
EQUIPMENT SERVED:
- GAS WATER HEATER (GWH-1): 150 CFH
- GAS WATER HEATER (GWH-2): 150 CFH
- ROOF TOP UNIT (RTU-3): 100 CFH

TOTAL CAPACITY IN CUBIC-FEET OF GAS PER HOUR: 400 CFH, (400,000 BTUH)

2 P -NAT GAS RISER



1 PLUMBING FIXTURE RISERS - TYPICAL
NTS

PLUMBING KEYED NOTES

(KEYED NOTES SHOWN FOR THIS SPECIFIC SHEET ONLY)

P38 MANUFACTURER PROVIDED GAS PRESSURE REGULATOR TO REDUCE SERVICE PRESSURE. REGULATOR TO BE SET AT MANUFACTURERS SPECIFIED OPERATING PRESSURE FOR EQUIPMENT.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

JOHNSTON
2603 Augusta Drive, Suite 1600
Houston, TX 77057
713.244.8300
www.johnstonllc.com
TBPE FIRM REGISTRATION #: F-421

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

95% CONSTRUCTION DOCUMENTS PACKAGE

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PROJECT NO: 24-0035-00
DATE: 20250308

PLUMBING RISERS

P6.01

DRG REFERENCE

INTERIM REVIEW
Not for regulatory approval, permitting or construction
Engineer: CARL A. CROW, P.E.
License No.: 56118 State of Texas
Date: 03-08-2025
JOHNSTON LLC,
TBPE FIRM REGISTRATION NO. F-421

DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 9:59:08 AM

CABLE PLANT SYMBOLS

	SINGLE (1) VOICE OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, CENTERED +18" AFF, UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, CENTERED +18" AFF, UNLESS OTHERWISE NOTED
W	WALL PHONE VOICE OUTLET, ONE (1) CATEGORY 6, 4 PAIR, UTP, COLOR AS SPECIFIED, CENTERED +48" AFF, UNLESS OTHERWISE NOTED. TERMINATE WITH STAINLESS STEEL, 2-POST FACEPLATES.
P	SINGLE (1) PUBLIC TELEPHONE VOICE OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, CENTERED +48" AFF, UNLESS OTHERWISE NOTED
F	SINGLE (1) DEDICATED FACSIMILE VOICE OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, CENTERED +18" AFF, UNLESS OTHERWISE NOTED
N	VOICE OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, CENTERED +18" AFF, UNLESS OTHERWISE NOTED. CABLE TERMINATION ONLY, NO EQUIPMENT/INSTRUMENT INSTALLED.
TV	DATA OUTLET FOR TV/VIDEO DISPLAY, (X) NUMBER OF CABLE TERMINATIONS, CATEGORY 6, 4-PAIR UTP, COLOR AS SPECIFIED, CENTERED AT HEIGHT INDICATED. COORDINATE INSTALLATION WITH DISPLAY BACKBOX, ELECTRICAL AND AV DRAWINGS AND SPECIFICATIONS.
V.V.	PATHWAY ONLY. INMATE TELEPHONE OUTLET, DOUBLE-GANG BOX WITH 1" EMT CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE OR NEAREST TELECOM ROOM. PATHWAYS PROVIDED BY ELECTRICAL CONTRACTOR. INMATE PHONE SYSTEM, CABLING, AND TERMINATIONS PROVIDED BY 3RD PARTY VENDOR.
KIOSK	PATHWAY ONLY. INMATE TELEPHONE OUTLET, SINGLE-GANG BOX WITH 1" EMT CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE OR NEAREST TELECOM ROOM. PATHWAYS PROVIDED BY ELECTRICAL CONTRACTOR. INMATE PHONE SYSTEM, CABLING, AND TERMINATIONS PROVIDED BY 3RD PARTY VENDOR.
IPS	ATTORNEY/INMATE VISITATION INTERCOM WITH HANDSET. SINGLE, CATEGORY 6 UTP CABLE, COLOR AS SPECIFIED, TERMINATIONS TO BE DETERMINED. SYSTEM PROVIDED BY OTHERS.
ASP	ANTI-STRANGULATION INMATE PHONE, HANDS-FREE, WITHOUT DIAL-OUT CAPABILITY.
	SINGLE (1) VOICE OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) VOICE OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) VOICE OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
	CATEGORY 6 UTP CABLE, COLOR AS SPECIFIED, DATA ONLY RJ45 JACKS. TERMINATE AT MDF/IDF ON CATEGORY 6, RJ45 PATCH PANELS.
X	VOICE/DATA OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CATEGORY 6, 4-PAIR UTP, COLOR AS SPECIFIED, CENTERED +18" AFF UNLESS OTHERWISE NOTED. TERMINATE AT TELECOM ROOMS ON CATEGORY 6 JACKS IN RJ45 PATCH PANELS.
WAP	WIRELESS ACCESS POINT DATA OUTLET, CATEGORY 6A UTP CABLE, COLOR AS SPECIFIED. TERMINATE AT TELECOM ROOMS ON CATEGORY 6A JACKS IN RJ45 PATCH PANELS; AT CEILINGS WITH ANSI-TIA568.2-D COMPLIANT PLUGS. LEAVE 15' CABLE SLACK AT CEILINGS.
	SINGLE (1) DATA OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN MULTI-FUNCTIONAL FLOOR BOXES, WIREMOLD/LEGRAND RFB SERIES RECOMMENDED. TERMINATE AT TELECOM ROOMS ON CATEGORY 6 JACKS IN RJ45 PATCH PANELS. MODULAR JACK COLORS: JACK 1=WHITE, JACK 2=BLUE, WAP=BLUE.
X	DATA OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CATEGORY 6, 4-PAIR UTP, COLOR AS SPECIFIED, MOUNTED IN MULTI-FUNCTIONAL FLOOR BOXES, WIREMOLD/LEGRAND RFB SERIES RECOMMENDED. TERMINATE AT TELECOM ROOMS ON CATEGORY 6 JACKS IN RJ45 PATCH PANELS.
	SINGLE (1) DATA OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
X	DATA OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) DATA OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
X	DATA OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) DATA OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
X	DATA OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
	COMBINATION SINGLE (1) VOICE/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, CENTERED +18" AFF UNLESS OTHERWISE NOTED.
X Y	STANDARD 4-PORT OUTLET, CATEGORY 6 UTP CABLE WITH RJ45 JACKS, COLOR AS SPECIFIED. TERMINATE AT MDF/IDF ON CATEGORY 6, RJ45 PATCH PANELS.
2 2	STANDARD 4-PORT OUTLET, CATEGORY 6 UTP CABLE WITH RJ45 JACKS, COLOR AS SPECIFIED. TERMINATE AT MDF/IDF ON CATEGORY 6, RJ45 PATCH PANELS.
	COMBINATION SINGLE (1) VOICE/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VOICE/DATA OUTLET, (X) NUMBER OF VOICE CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED,
	COMBINATION SINGLE (1) VOICE/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VOICE/DATA OUTLET, (X) NUMBER OF VOICE CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
	COMBINATION SINGLE (1) VOICE/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VOICE/DATA OUTLET, (X) NUMBER OF VOICE CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
	COMBINATION SINGLE (1) VOICE/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VOICE/DATA OUTLET, (X) NUMBER OF VOICE CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
	SINGLE (1) DATA OUTLET FOR VoIP, CABLE TYPE AND COLOR AS SPECIFIED, CENTERED +18" AFF UNLESS OTHERWISE NOTED.
X	DATA OUTLET FOR VoIP, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED.
	SINGLE (1) DATA OUTLET FOR VoIP, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX UNLESS OTHERWISE NOTED.

CABLE PLANT SYMBOLS

X	DATA OUTLET FOR VoIP, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX UNLESS OTHERWISE NOTED.
	SINGLE (1) VoIP OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
X	VoIP OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) VoIP OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
X	VoIP OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) VoIP OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
X	VoIP OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
	COMBINATION SINGLE (1) VoIP/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, CENTERED +18" AFF UNLESS OTHERWISE NOTED.
X Y	COMBINATION VoIP/DATA OUTLET, (X) NUMBER OF VoIP CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED.
	COMBINATION SINGLE (1) VoIP/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VoIP/DATA OUTLET, (X) NUMBER OF VoIP CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED.
	COMBINATION SINGLE (1) VoIP/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VoIP/DATA OUTLET, (X) NUMBER OF VoIP CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
	COMBINATION SINGLE (1) VoIP/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VoIP/DATA OUTLET, (X) NUMBER OF VoIP CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
	COMBINATION SINGLE (1) VoIP/SINGLE (1) DATA OUTLET, CABLE TYPES AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
X Y	COMBINATION VoIP/DATA OUTLET, (X) NUMBER OF VoIP CABLE TERMINATIONS, (Y) NUMBER OF DATA CABLE TERMINATIONS, CABLE TYPES AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
	SINGLE (1) FIBER OUTLET, CABLE TYPE AND COLOR AS SPECIFIED.
X	FIBER OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED.
	SINGLE (1) FIBER OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED.
X	FIBER OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN POKE-THRU/FLOOR BOX AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) FIBER OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN 4FFATC FURNITURE POKE-THRU AS SPECIFIED UNLESS OTHERWISE NOTED.
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	SINGLE (1) FIBER OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
X	FIBER OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, MOUNTED IN ABOVE-FLOOR RECEPTACLE AS SPECIFIED UNLESS OTHERWISE NOTED.
	SINGLE (1) FIBER OUTLET, CABLE TYPE AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
X	FIBER OUTLET, (X) NUMBER OF CABLE TERMINATIONS, CABLE TYPE AND COLOR AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
	POWER/COMMUNICATIONS POLE, AS SPECIFIED.
	ROUGH-IN FOR WALL-MOUNTED RECEPTACLE, NO CABLE INSTALLED.
	ROUGH-IN FOR CONDUIT TO POKE-THRU/FLOOR BOX, NO CABLE INSTALLED.
	ROUGH-IN FOR 4FFATC FURNITURE POKE-THRU, NO CABLE INSTALLED.
	ROUGH-IN FOR ABOVE-FLOOR RECEPTACLE, NO CABLE INSTALLED.
	SINGLE (1) DATA OUTLET, CABLE TYPE AS SPECIFIED, CEILING-MOUNTED UNLESS OTHERWISE NOTED.
	CONDUIT FOR GROUND WIRE
	CONDUIT, SIZE AND TYPE AS INDICATED
	FIBER OPTIC CABLE, STRAND COUNT & TYPE (SM/MM) AS INDICATED
XXX	UNSHIELDED TWISTED PAIR (UTP) COPPER CABLE, SIZE & TYPE AS INDICATED
XXX	SHIELDED TWISTED PAIR (STP) COPPER CABLE, SIZE & TYPE AS INDICATED
	COAXIAL COPPER CABLE, SIZE & TYPE AS INDICATED
MH	MANHOLE, SIZE & TYPE AS INDICATED
HH	HANDHOLE, SIZE & TYPE AS INDICATED
PB	PULLBOX, SIZE & TYPE AS INDICATED
TV	COAXIAL COPPER CABLE, MINIMUM RG-6U, IF LONGER THAN 150', USE RG-11, SHEATH RATED FOR ENVIRONMENT INSTALLED.

GENERAL NOTES

1. COORDINATE FINAL LOCATIONS OF TELECOMMUNICATIONS DEVICES WITH ARCHITECT.
2. COORDINATE TELECOMMUNICATIONS CONDUIT TYPE, PATH AND PLACEMENT WITH MEP SPECIFICATIONS AND MEP ENGINEER.
3. ALL TELECOM CABLE SHALL BE INSTALLED IN CABLETRAYS, CONDUIT, OR J-HOOKS ABOVE CEILING LEVEL AND CONCEALED. DO NOT INSTALL EXPOSED CABLE.
4. COMPLY WITH THE NFPA, NEC, EIA/TIA, FCC, UL, AND IEEE STANDARDS & LOCAL ORDINANCES FOR THE INSTALLATION OF CABLE AND TELECOMMUNICATIONS EQUIPMENT.
5. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS AND THE NFPA AND NEC CODES PRIOR TO PURCHASE AND INSTALLATION OF CABLE AND EQUIPMENT.
6. ALL FURNISHED CABLE AND EQUIPMENT SHALL BE PROVIDED WITH ALL ACCESSORIES AND ANCILLARY HARDWARE REQUIRED FOR A COMPLETE AND FUNCTIONAL TELECOMMUNICATIONS PLANT.
7. IT CONTRACTOR IS RESPONSIBLE FOR PULLING AND TERMINATING ALL CAT.6 CABLING, J-HOOKS WHERE REQUIRED. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, JUNCTION BOXES, RACEWAYS AND ALL HIGH VOLTAGE WORK FOR IT APPLICATIONS AS NOTED ON THE T-SERIES DRAWINGS AND ELECTRICAL DRAWINGS.

ABBREVIATIONS & ACRONYMS

AFF	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED SURFACE
AER	AERIAL
AWG	AMERICAN WIRE GAUGE
CAT#	CATEGORY #
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLT	CLOSET
CO	CENTRAL OFFICE
COE	CNETRAL OFFICE EQUIPMENT
dB	DECIBEL
DEMARC	DEMARCATION POINT
EQUIP	EQUIPMENT
EMT	ELECTRIC METALLIC TUBE
FOC	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HH	HANDHOLE
IRC	INTERMEDIATE RIGID CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
LAN	LOCAL AREA NETWORK
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MM	MULTIMODE
NEC	NATIONAL ELECTRIC CODE
O.C.	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OSP	OUTSIDE CABLE PLANT
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
PBX	PRIVATE BRANCH EXCHANGE
PB	PULLBOX
PIC	PLASTIC INSULATED CONDUCTOR
POTS	PLAIN OLD TELEPHONE SERVICE
PR	PAIR
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PVC	PLOYVINYL CHLORIDE
RFI	RADIO FREQUENCY INTERFERENCE
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TDR	TIME DOMAIN REFLECTOMETER
TELCO	TELEPHONE COMPANY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
VoIP	VOICE OVER IP
UPS	UNSHIELDED TWISTED PAIR
UTP	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR

PROJECT NOTES

1. PROVIDE ALL EQUIPMENT AND MATERIALS AS REQUIRED AND INTENDED BY SPECIFICATIONS AND DRAWINGS. DRAWINGS ARE INTENDED TO BE USED ONLY AS A GUIDE AND DO NOT NECESSARILY REPRESENT A COMPLETE LIST OF PARTS. PROVIDE A COMPLETE AND FUNCTIONAL TELECOMMUNICATIONS CABLE PLANT.
2. COORDINATE CABLE PLANT REQUIREMENTS FOR TELECOMMUNICATIONS, AUDIO-VISUAL AND ELECTRICAL SYSTEMS. COORDINATION SHALL BE DONE BY EXAMINATION OF DRAWINGS AND SPECIFICATIONS FROM EACH DISCIPLINE AS WELL AS BY HOLDING COORDINATION MEETINGS WITH THE ARCHITECT, THE CONTRACTORS AND THE CONSULTANTS FOR TELECOM, ELECTRICAL AND AUDIO-VISUAL. COORDINATION MEETINGS SHALL BE HELD NOT MORE THAN 45 DAYS AFTER CONTRACT AWARDS.
3. TELECOM EQUIPMENT ROOM
   - A. FURNISH & INSTALL THE EQUIPMENT ROOMS WITH 3/4 INCH "AC" RATED VOID FREE FIRE TREATED PLYWOOD WITH TWO APPLICATIONS OF WHITE FIRE RETARDANT COATING. THE "C" FACE OF THE PLYWOOD SHALL BE PLACED AGAINST WALL. THE WALL LINING SHALL BE CONTINUOUSLY PLACED ON ALL THE TELECOM ROOM'S INTERIOR WALLS. THE WALL LINING SHALL BE PLACED CONTINUOUSLY FROM 0'-6" (SIX INCHES) TO 8'-6" (EIGHT FEET - SIX INCHES) A.F.F.
   - B. FURNISH AND INSTALL GROUND BUS BARS IN THE TELECOMMUNICATIONS EQUIPMENT ROOMS. PLACEMENT OF GROUND BUS BAR SHALL BE COORDINATED WITH ENGINEER BEFORE INSTALLATION. BOND & GROUND EQUIPMENT AND RACKS PER MANUFACTURERS, CODES, AND STANDARDS REQUIREMENTS. GROUND WIRE SHALL BE 6 AWG OR GREATER AND INSTALLED IN A CONCEALED AND NON OBSTRUCTIVE PATH FROM THE GROUNDING BUS BAR TO EQUIPMENT AND RACKS.
   - C. TELECOM ROOM SHALL BE PROVIDED WITH A GROUND WIRE IN CONDUIT TO MAIN ELECTRICAL GROUND REFERENCE. LOCATION AND SIZE OF GROUND WIRE SHALL BE PLACED AS INDICATED IN DRAWINGS AND INSTALLATION BE COORDINATED WITH MEP AND ELECTRICAL CONTRACTOR.
   - D. TELECOM CABLE LADDER SHALL BE 12" WIDE WITH CROSS MEMBERS WELDED AT 9" INTERVALS AND PROVIDED AS INDICATED IN TELECOM DRAWINGS.
   - E. COORDINATE INSTALLATION, MOUNTING, PLACEMENT & INTERFACING OF CABLETRAY AND CABLE LADDER IN THE TELECOM ROOMS.
   - F. PROVIDE FIRESTOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF ALL PENETRATED WALLS, FLOORS, AND CEILING STRUCTURES. FIRESTOP ALL TELECOMMUNICATIONS CABLE PATHWAY PENETRATIONS INCLUDING ALL HORIZONTAL AND VERTICAL SHAFTS PER REQUIREMENTS OF NFPA, NEC, LOCAL AND STATE CODES.
   - G. TELECOM CABLE SHALL BE CONCEALED AND INSTALLED IN CONDUIT IN ANY EXPOSED & OPEN AREAS WHERE CABLETRAY OR LADDER RACK HAS NOT BEEN SPECIFIED.
   - H. INSTALL CABLE PATHWAY FROM CORRIDORS TO CABLE RUNWAYS IN TELECOM EQUIPMENT ROOMS.
4. GENERAL AREAS
   - A. COORDINATE MOUNTING HEIGHT AND PLACEMENT LOCATIONS OF TELECOMMUNICATIONS OUTLETS INSTALLED IN SPECIALTY AREAS WITH ARCHITECT AND ENGINEER.
   - B. COORDINATE EXACT PLACEMENT LOCATIONS OF OUTLETS INSTALLED IN OPEN OFFICE SPACES AND MOVEABLE FURNITURE WITH ARCHITECT AND ENGINEER.
   - C. VOICE AND DATA COMMUNICATIONS OUTLETS SHALL BE INSTALLED TO MATCH ELECTRICAL OUTLET ELEVATIONS AND ORIENTATIONS, UNLESS OTHERWISE SPECIFIED.
   - D. CONFIRM ALL TELECOMMUNICATIONS DEVICES WITH ARCHITECT BEFORE ROUGH-IN. THE ARCHITECT RESERVES THE RIGHT TO LOCATE OUTLETS ANYWHERE WITHIN EACH AREA OR ROOM.
   - E. PROVIDE 1 INCH CONDUIT TO ACCESSIBLE CEILING AND STANDARD DOUBLE BACKBOXES (4 X 4) WITH SINGLE GANG MUD RING AT EACH TELECOM OUTLET. CONDUITS SHALL BE PROVIDED WITH BUSHINGS. CONDUITS SHALL BE FURNISHED WITH NYLON PULLSTRINGS. CONTRACTOR SHALL COORDINATE AND REFER TO DIVISION 16 FOR CONDUIT FURNISHING AND INSTALLATION SPECIFICATIONS.
   - F. CONTRACTOR SHALL BE RESPONSIBLE IN OVERSEEING THAT THE ELECTRICAL AND TELECOMMUNICATIONS CONTRACTOR COORDINATE THE PLACEMENT, INSTALLATION, & LOCATION OF "J" HOOKS FOR TELECOM CABLE THROUGHOUT THE FACILITY.
   - G. COORDINATE TELECOM PATHWAY REQUIREMENTS, PENETRATIONS, AND EQUIPMENT ROOM'S SLOT SIZING, PLACEMENT & LOCATIONS WITH STRUCTURAL DOCUMENTS.
5. OUTSIDE CABLE PLANT
   - A. CONTRACTOR SHALL COORDINATE OUTSIDE TELECOMMMUNICATIONS MANHOLE & CONDUITS REQUIREMENTS WITH SPECIFICATIONS & DRAWINGS.
   - B. MANHOLES SHALL BE TRAFFIC BEARING AND PROVIDED WITH MANHOLE LADDERS AND STEPS, CABLE RACK SUPPORTS, BRACKETS, AND REQUIRED ANCILLERY TO SUPPORT A COMPLETE & FUNCTIONAL SYSTEM.
   - C. MANHOLES SHALL BE FURNISHED WITH NECKS, RINGS & COVERS.
   - D. MANHOLES SHALL BE FURNISHED WITH SUMP-HOLES FOR DRAINAGE PROVISION.
   - E. INSTALL PULL ROPES AND IRONS IN ALL CONDUITS FROM THE MANHOLES TO EQUIPMENT ROOMS. ALL CONDUITS SHALL BE CAPPED AND SEALED WITH PVC CAPS.
   - F. UNDERGROUND CONDUIT MUST BE RATED AS TYPE "C" OR EQUIVALENT SCHEDULE 40 OR BETTER. CONDUITS SHALL BE SCHEDULE 80 UNDER ROADWAYS AND MUST MEET THE REQUIREMENTS OF NEMA TC6.
   - G. MANHOLES SHALL BE PROVIDED WITH KNOCKOUTS AND PIPE OPENINGS TO SUPPORT THE CONDUIT PLANT AS SPECIFIED.
   - H. INSTALL MANHOLES IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND PRACTICES.
6. HORIZONTAL DISTRIBUTION CABLE COLOR CODES
   - A. DATA: WHITE AND BLUE CATEGORY 6 CABLE AND CORRESPONDING JACKS/PATCH CABLES BOTH ENDS
     - 2-PORT: 1 WHITE / 1 BLUE
     - 3-PORT: 1 WHITE / 2 BLUE
     - 4-PORT: 2 WHITE / 2 BLUE
   - B. IT WIRELESS ACCESS POINTS: GREEN CATEGORY 6A CABLE AND CORRESPONDING JACKS/PATCH CABLES. TERMINATE WITH MODULAR PLUG AT CEILING LOCATION.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

ATASCOSA COUNTY REGIONAL MEDICAL EXAMINER

PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250228

IT LEGEND AND NOTES

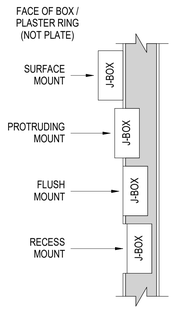
T0.01

DRG REFERENCE

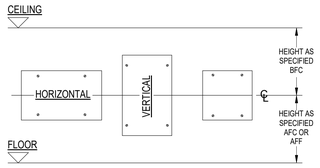
DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 10:05:33 AM

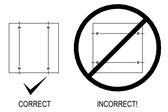
JUNCTION BOX MOUNTING INFORMATION



MOUNTING STYLES



JUNCTION BOX DIMENSIONS & ORIENTATIONS



SCREW HOLE ORIENTATION

MINIMUM CONDUIT AND TRENCHING SEPARATION TABLE

THIS TABLE DEFINES THE DIFFERENT LEVELS AND TYPES OF LOW VOLTAGE VS. HIGH VOLTAGE SIGNALS THAT COMPRISE THE COMPLETE SOUND, COMMUNICATIONS AND VIDEO SYSTEMS. ALL WIRING CLASSIFIED WITHIN A SPECIFIC GROUP CAN BE COMBINED WITHIN THE SAME CONDUIT. WIRING CLASSIFIED IN DIFFERENT GROUPS MUST BE RUN IN SEPARATE CONDUITS. LISTED BELOW ARE THE SEPARATION REQUIREMENTS FOR CONDUIT/CABLING:

GROUP A - MICROPHONE CABLING
GROUP B - AUDIO AND LOW VOLTAGE CONTROL LINE LEVEL WIRING
GROUP C - LOUDSPEAKER WIRING
GROUP D - CAT.6/DATA, VIDEO AND FIBER OPTIC CABLING.

MINIMUM CONDUIT SEPARATION TABLE	GROUP A	GROUP B	GROUP C	GROUP D
GROUP A	ADJACENT	6"	12"	12"
GROUP B	-	ADJACENT	12"	6"
GROUP C	-	-	ADJACENT	6"
GROUP D	-	-	-	ADJACENT
DIMMER-CONTROLLED LIGHTING CKTs	48"	36"	24"	24"
SCR-CONTROLLED DEVICES	48"	36"	24"	36"
120V / 220V / 440V BRANCH OR FEEDER CKTs	48"	36"	24"	36"
POWER DISTRIBUTION OR I/G TRANSFORMERS	144"	144"	144"	144"
ALL OTHERS (PLUMBING, HEAT, ETC.)	12"	12"	12"	12"

INFRASTRUCTURE WALL BOX DESCRIPTIONS

TYPE 1 BOX = TWO GANG BOX EQUAL TO STEEL CITY 52171 SERIES WITH 52-C SERIES SINGLE GANG PLASTER RING

TYPE 2 BOX = TWO GANG BOX EQUAL TO STEEL CITY 52171 SERIES WITH 52-C SERIES DOUBLE GANG PLASTER RING

TYPE 3 BOX = THREE GANG BOX EQUAL TO STEEL CITY H3BD WITH 3GC PLASTER RING

TYPE 4 BOX = FOUR GANG BOX EQUAL TO STEEL CITY H4BD WITH 4GC PLASTER RING

TYPE 5 BOX = TWO GANG BOX EQUAL TO HUBBLE #HB985 WITH HUBBELL #HBL989 HIGH VOLTAGE/LOW VOLTAGE SEPARATOR

TYPE 6 BOX = NEMA1, 6"x6"x3.5", COVER BY AV CONTRACTOR

TYPE 8 BOX = NEMA1, 8"x8"x3.5", COVER BY AV CONTRACTOR

TYPE 10 BOX = NEMA1, 10"x10"x3.5", COVER BY AV CONTRACTOR

TYPE 12 BOX = NEMA1, 12"x12"x3.5", COVER BY AV CONTRACTOR

GENERAL CONTRACTOR / DIVISION 26 / DIVISION 27 RESPONSIBILITIES

1. SUPPLY OF ACCESSORIES AND MINOR EQUIPMENT ITEMS FOR A COMPLETE, WORKING SYSTEM.
2. DIVISION 27 41 00 IS RESPONSIBLE FOR MOUNTING ALL LOUDSPEAKERS AND RIGGING TO THE RED IRON WHERE APPLICABLE.
3. DIVISION 27 41 00 WILL INSTALL AND TERMINATE ALL LOW VOLTAGE CABLING AND CONNECTORS WITH LABELING AND MUST CONFORM TO THE SPECIFICATIONS. NO SPLICES ARE ALLOWED.
4. DIVISION 27 41 00 IS TO PROVIDE DIVISION 26 FLOOR BOXES AND SPEAKER BACKCANS FOR INSTALLATION EARLY IN THE PROJECT SO TO NOT DELAY THE PROJECT.
5. INSTALLATION OF ALL LOUDSPEAKER CABLING AND LOUDSPEAKER CABLING FOR 12Vdc AND 24Vdc POWER.
6. G.C. TO PROVIDE ALL STRUCTURAL RED IRON FOR RIGGING OF THE FOLLOWING ACCORDING TO THE PROJECT STRUCTURAL ENGINEERS REQUIREMENTS AND/OR OSHA REQUIREMENTS: LED WALL (EITHER FLOWN FROM RED IRON ABOVE OR MOUNTED TO A WALL), THEATRICAL LIGHTING TRUSS OR PIPE GRID, LOUDSPEAKERS (SINGLE ENCLOSURES, CLUSTERS AND/OR LINE ARRAYS). ALSO TO PROVIDE SUFFICIENT SUPPORT ACCORDING TO THE PROJECT STRUCTURAL ENGINEER TO SAFELY MOUNT WALL MOUNTED TV/VIDEO DISPLAYS AND VIDEO PRODUCTION CAMERAS.
7. G.C. IS RESPONSIBLE FOR PROVIDING ALL MILLWORK, CONTROL DESKS, SOUND BOOTH, VIDEO AND AUDIO SUITE MILL WORK WITH METAL SUPPORT FRAMEWORK ACCORDING TO AV REQUIREMENTS AND SPECIFICATIONS.
8. G.C. IS RESPONSIBLE FOR INSTALLING ALL ACOUSTICAL MATERIALS AND PANELS AS REQUIRED BY THE ARCHITECT, ACOUSTICAL CONSULTANT AND/OR AV CONTRACTOR.

DIVISION 26 RESPONSIBILITIES

1. PROVIDE, INSTALL AND TERMINATION OF ALL HIGH VOLTAGE CABLING AND CIRCUITS.
2. PROVIDE AND INSTALL ALL CONDUIT FOR POWER, EMPTY CONDUIT (WITH PULL STRING, NO EXCEPTION), JUNCTION BOXES, RACEWAYS AND CABLE TRAYS.
3. INSTALLATION OF DEVICES PROVIDED BY DIVISION 27 TO DIVISION 26 WHICH INCLUDES FLOOR POCKET BACK BOXES, WALL MOUNTED EQUIPMENT RACKS, CEILING OR WALL MOUNTED LOUDSPEAKERS WHERE CONDUIT IS REQUIRED.
4. PROVISION OF ALL ELECTRICAL INSULATED/ISOLATED GROUND EDISON OUTLETS WITHIN FLOOR BOXES.
5. PROVIDE IDENTIFIER OF ALL JUNCTION BOXES AND CONDUIT AS PER DRAWINGS.
6. PROVIDE APPROPRIATE GROUNDING FROM THE ROOF RED IRON TO THE BUILDING GROUND (FOR TILT WALL CEMENT CONSTRUCTION) AS REQUIRED BY THE NATIONAL ELECTRIC CODE.

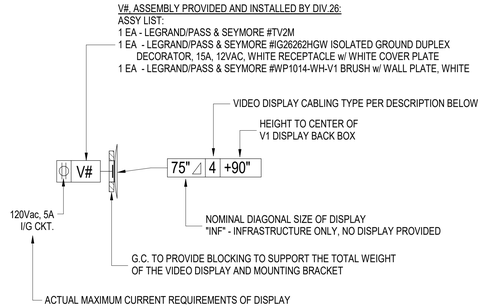
SUPPLEMENTAL INSTRUCTIONS

1. THE EXACT LOCATION OF ALL AUDIO/VIDEO DEVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
2. THE AUDIO/VIDEO SYSTEM EQUIPMENT RACK LOCATION WILL REQUIRE SPACE TO ACCOMMODATE RACKS AS INDICATED IN DRAWINGS. THESE RACKS WILL BE PLACED SIDE BY SIDE. A MINIMUM OF 36" (THIRTY SIX INCHES) OF CLEARANCE IS REQUIRED BOTH IN FRONT OF AND IN BACK OF THE EQUIPMENT RACKS. ACCESS MUST BE PROVIDED TO THE REAR OF THE EQUIPMENT RACKS.
3. ALL ELECTRICAL CIRCUITS FOR AUDIO AND VIDEO SHALL BE SUPPLIED FROM THE SAME ELECTRICAL PANEL. THIS PANEL SHALL DERIVE ITS POWER FROM AN INSULATED/ISOLATED TRANSFORMER. THE AUDIO ELECTRICAL POWER PANEL SHALL NOT FURNISH POWER TO ANY OTHER EQUIPMENT. EACH CIRCUIT SHOULD HAVE GROUND AND NEUTRAL CONDUCTORS EQUAL IN SIZE TO THE CURRENT CARRYING CONDUCTOR.
4. THE EXACT LOCATION OF ALL AUDIO/VIDEO DEVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
5. THE DIVISION 27 41 00 EQUIPMENT RACK LOCATION WILL REQUIRE SPACE TO ACCOMMODATE RACKS AS INDICATED IN DRAWINGS. THESE RACKS WILL BE PLACED SIDE BY SIDE. A MINIMUM OF 36" (THIRTY SIX INCHES) OF CLEARANCE IS REQUIRED BOTH IN FRONT OF AND IN BACK OF THE EQUIPMENT RACKS.

DIVISION 26 AND GENERAL LEGEND NOTES

1. ALL CONDUIT SHALL BE STEEL (EMT OR RIGID). ALUMINUM, FIBERGLASS, OR PVC CONDUIT IS NOT ACCEPTABLE.
2. INTERMEDIATE PULL BOXES SHALL BE 12"X12"X4", MINIMUM IF ANY CONDUIT ENTRY IS 1 1/4" OR LARGER.
3. INTERMEDIATE PULL BOXES SHALL BE 4-11/16" SQUARE X 3 1/2" DEEP IF ALL CONDUIT ENTRIES ARE 1" OR LESS.
4. ALL SCREW COVER JUNCTION BOXES (GANG BOXES ARE NOT ACCEPTABLE) SHALL MOUNT WITH SCREW HOLES AT SIDES.
5. ALL 120 VOLT WIRE, DEVICES, AND CONNECTIONS BY DIV 26.
6. ALL LOW VOLTAGE SOUND, VIDEO & LIGHTING SYSTEM WIRE, DEVICES, AND CONNECTIONS BY DIV. 27.
7. ALL GANG-BOXES SHALL BE 3 1/2" DEEP, MINIMUM, SINGLE PIECE CONSTRUCTION. MODULAR BOXES ARE NOT ACCEPTABLE.
8. FLOOR POCKETS "FP'S HAVE CONNECTOR PLATES PROVIDED BY A/V CONTRACTOR; INSTALLED BY DIV 26. ** DIV 26 TO PROVIDE ELECTRICAL I/G TYPE DUPLEX OUTLETS FOR ALL F.P.'S. ELECTRICAL COVER PLATES FOR FLOOR BOXES PROVIDED BY DIV 27.
9. ALL BOXES AND CONDUIT IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED OR RECESSED. BOXES AND CONDUIT ON EXISTING WALLS AND CEILINGS MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
10. SUPPORT ALL LOUDSPEAKER ENCLOSURES FROM STRUCTURE RATHER THAN FROM CEILING.
11. ALL WIRING SHALL BE IN CONDUIT OR PLENUM RATED. ALL DEVICES CONNECTED WITH MINIMUM 1"C UNLESS SPECIFIED OTHERWISE.
12. STANDARD RECEPTACLE HEIGHT: TO BE ALIGNED WITH ELECTRICAL DEVICES. CONFIRM AT JOBSITE.
13. STANDARD SWITCH HEIGHT: TO BE ALIGNED WITH ELECTRICAL DEVICES. CONFIRM AT JOBSITE.
14. REFER TO ARCHITECTURAL ELEVATIONS AND CEILING PLANS FOR EXACT PLACEMENT. FINISHES DETERMINED BY ARCHITECT.
15. FLOOR PLANS ARE FINAL AUTHORITY OF DEVICE QUANTITIES WHICH ARE SUBJECT TO REVISION PROVIDING PROPER NOTICE.
16. WHERE NO BACK BOX IS REQUIRED, REFERENCE THE MANUFACTURER'S INSTALLATION DETAIL.

VIDEO DISPLAY LEGEND



VIDEO DISPLAY CABLING TYPES

NOTE: ALL LOCATIONS HAVE I/G, 120Vac PWR WITH LEGRAND/PASS & SEYMORE V1 ASSEMBLY PROVIDED & INSTALLED BY DIV 26. BLOCKING BY G.C.

TYPE 1: (2) RJ45 NETWORK, (1) RG6 COAX W/ MALE F-CONNECTOR, (2) HDMI CABLES FROM WP1/WP2 TO HDMI-1/HDMI-2 DISPLAY INPUTS

TYPE 2: (2) RJ45 NETWORK, (1) RG6 COAX W/ MALE F-CONNECTOR, (1) HDM1 CABLE

TYPE 3: (2) RJ45 NETWORK, (1) RG6 COAX W/MALE F-CONNECTOR

TYPE 4: (2) RJ45 NETWORK, (1) RG6 COAX W/ MALE F-CONNECTOR, RS232 CABLING/CONNECTOR, (1) HDMI CABLE

TYPE 5: (2) RJ45 NETWORK

TYPE 6: (1) RJ45 NETWORK, (1) RG6 COAX W/ MALE F-CONNECTOR, RS232 OR IR CABLE

TYPE 7: (1) RJ45 NETWORK, (1) RS232 OR IR CABLE, (1) HDMI CABLE

TYPE 8: (1) HDMI CABLE FROM WPX BOX ONLY

TYPE 9: NO CABLING, INFRASTRUCTURE ONLY

DEVICE SYMBOL LEGEND

DEVICE SYMBOL	DESCRIPTION / FUNCTION	BACK BOX MOUNTING: DEPTH: RECESS	DEPTH: FLUSH	DEPTH: PROTRUDING	SURFACE: SURFACE	SURFACE: WALL/RAIL	SURFACE: FLUSH	SURFACE: CEILING	HEIGHT: OUTLET	HEIGHT: SWITCH	HEIGHT: ABOVE CEILING	HEIGHT: SPECIFIED MOUNTING LOCATION	ORIENTATION: BOX FACING ORIENTATION	MINIMUM BOX SIZE (LxWxD)	BACK-BOX PROVIDED BY	BACK-BOX INSTALLED BY	GENERAL NOTES AND REFERENCES
JB X	JUNCTION BOX, "X" AT CORNER DENOTES BOX TYPE																
WP# X	WALL PLATE, TYPE "#", WITH FLUSH-MOUNTED J-BOX (DEEP), "X" AT CORNER DENOTES BOX TYPE		X			X											
WP# X	WALL PLATE, TYPE "#", MOUNTED BELOW COUNTER, WITH FLUSH-MOUNTED J-BOX (DEEP), "X" AT CORNER DENOTES BOX TYPE		X			X											
S 1	SLAVE (PASSIVE) CEILING SPEAKER, FLUSH-MOUNTED		X					X									
S xxW	70V CEILING SPEAKER, FLUSH-MOUNTED, TAPPED AT XX WATTS AS INDICATED		X					X									
X	POWERED LOUDSPEAKER WITH 12VDC POWER SUPPLY SUPPORTING "X" NUMBER SLAVE CEILING LOUDSPEAKERS WITH BAFFLES AND SUPPORT RING.																AMK #PSA OR QSA SERIES OR DS (DANTE)
S	PENDANT-MOUNTED LOUDSPEAKER							X				PER PLANS (AFF OR BFC)					
SX	SURFACE-MOUNTED LOUDSPEAKER, TYPE "X"				X							PER PLANS (AFF OR BFC)					
S WP	SURFACE-MOUNTED WEATHERPROOF LOUDSPEAKER				X							PER PLANS (AFF OR BFC)					
A# X	ANTENNA, TYPE "#", FOR WIRELESS MICROPHONE OR WIRELESS TRANSMITTER, "X" AT CORNER DENOTES BOX TYPE																
H# X	ASSISTIVE LISTENING ANTENNA OR IR (INFRARED) TRANSMITTER, TYPE "#", "X" AT CORNER DENOTES BOX TYPE																
M# X	MICROPHONE, TYPE "#", DEEP J-BOX, FLUSH- MOUNTED IN CEILING, "X" AT CORNER DENOTES BOX TYPE		X					X									
X FP#	FLOOR POCKET FOR SPEAKER, DATA, VIDEO AND MICROPHONE CABLING TERMINATIONS. DOUBLE LINE INDICATES DIRECTION OF CABLE EXIT FROM BOX. "X" AT CORNER DENOTES TYPE.		X														ALL BY ACE BACKSTAGE TYPE 1: #132SLBK w/ INTERIOR BRACKET - INCLUDE WET BACKBOX #BRK 1028BBXW TYPE 2: #122SLBK w/ #PWR ISOLATED PANEL - INCLUDE WET BACKBOX #ISO1028BBXW TYPE 3: #123SLBK - INCLUDE WET BACKBOX #BRK 103BBXW
IG V#	VIDEO DISPLAY WALL BOX ASSEMBLY, TYPE "#".	X															
IG VP#	CEILING-MOUNTED VIDEO PROJECTOR JUNCTION BOX, TYPE "#", FOR VIDEO/DATA/CONTROL WITH HIGH VOLTAGE SEPARATOR.																
DMX X	DMX PLATE, FLUSH-MOUNTED, "X" AT CORNER DENOTES BOX TYPE.						X										
DMX X	DMX PLATE, SURFACE-MOUNTED, "X" AT CORNER DENOTES BOX TYPE.							X									
DMX X	WIRELESS DMX RECEIVER, "X" AT CORNER DENOTES BOX TYPE.																
TP# X	TABLE POCKET FOR A/V, VOICE AND DATA CONNECTIONS. DOUBLE LINE INDICATES DIRECTION OF CABLE EXIT FROM BOX, "X" AT CORNER DENOTES BOX TYPE, PROVIDED BY DIV. 27, INSTALLED BY GC, 120Vac BY DIV. 26.																ALTINEX #TNP SERIES
OS	OCCUPANCY SENSOR BY AV CONTRACTOR AS PART OF THE ROOM CONTROL SYSTEM BY AV CONTRACTOR.		X					X						SINGLE GANG DEEP			
WP# X / WP# X	DENOTES JUNCTION BOX MOUNTED WITHIN 3.5" OF ANOTHER JUNCTION BOX, "X" AT CORNER DENOTES BOX TYPE.					X		X									
XXLBS	RIGGING POINT, "XX" MAX LOAD NOTED PER POINT											X					
	CONDUIT STUBBED OUT 6" ABOVE FINISHED CEILING																
WMS	WALL MOUNTED SPEAKER, MOUNTED 12" BFC FROM U-BRACKET. USE SPEAKER AS SPECIFIED FROM THE ROOM MATRIX DRAWING.				X							X		SINGLE GANG DEEP			
S NM	CEILING MOUNTED NOISE MASKING EMITTERS	X						X									
MA	CEILING MOUNTED PoE MICROPHONE ARRAY																

27 41 00 ABBREVIATIONS

A = ANTENNA FOR WIRELESS MICROPHONE OR TRANSMITTER
AFC= ABOVE FINISHED CEILING IN INCHES
AFF = ABOVE FINISHED FLOOR IN INCHES
AFS = ABOVE FINISHED SURFACE IN INCHES
ALS = ASSISTIVE LISTENING SYSTEM
AR = AUXILIARY RACK
AUX= AUXILIARY
AV = PROJECT SOUND / VIDEO (SUB)CONTRACTOR.
AV/ER = AUDIO/VIDEO EQUIPMENT RACK
BCS= BELOW COUNTER-TOP SURFACE IN INCHES
BFF = BELOW FINISHED FLOOR IN INCHES
BFC= BELOW FINISHED CEILING IN INCHES
BOH = BACK OF HOUSE
CL = CENTER LINE
D = DATA/DMX512 J-BOX
DMX = CONTROL DATA LINE FOR LIGHTING
DR = DIMMER RACK
EC = PROJECT ELECTRICAL (SUB)CONTRACTOR.
FF = FRONT FILL LOUDSPEAKERS
FOH= FRONT OF HOUSE
FP = FLOOR POCKET/FLOOR BOX
GB = GUTTER BOX - 6"x6"x N (LENGTH AS SPECIFIED)
H = HEARING ASSISTANCE TRANSMITTER (RF OR IR)
HLC= HOUSE LIGHTING CONTROL
I/G = INSULATED/ISOLATED GROUND AS PER NEC
MX = MICROPHONE JUNCTION BOX
NIC = NOT IN CONTRACT (FUTURE OR BY OTHERS)
OFE= OWNER FURNISHED EQUIPMENT
P/O = PART OF ....
PJX = POWER JUNCTION BOX
PSQ= POWER SEQUENCER
SX = SPEAKER JUNCTION BOX
SSH= PROJECT STANDARD SWITCH HEIGHT
SOH = PROJECT STANDARD OUTLET HEIGHT
TR = LIGHTING TRUSS
TV = VIDEO J-BOX
U = UTILITY ELECT. CKT (NOT PART OF I/G SYSTEM)
WP = WALL PLATE

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 20250228

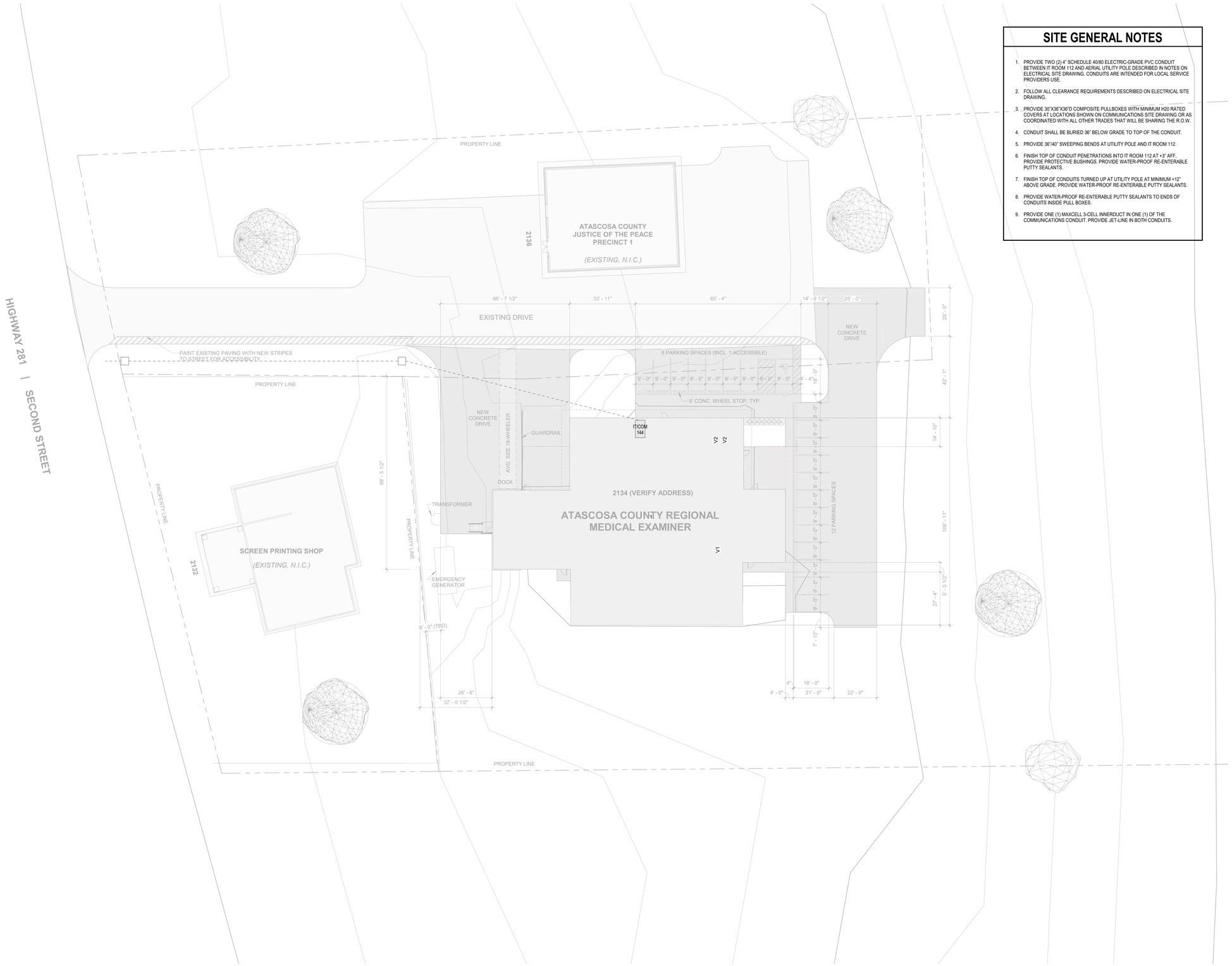
AUDIOVISUAL LEGEND AND NOTES

T0.02

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

2/28/2025 9:59:12 AM



SITE GENERAL NOTES

1. PROVIDE TWO (2) 4" SCHEDULE 40/80 ELECTRIC-GRADE PVC CONDUIT BETWEEN IT ROOM 112 AND AERIAL UTILITY POLE DESCRIBED IN NOTES ON ELECTRICAL SITE DRAWING. CONDUITS ARE INTENDED FOR LOCAL SERVICE PROVIDERS USE.
2. FOLLOW ALL CLEARANCE REQUIREMENTS DESCRIBED ON ELECTRICAL SITE DRAWING.
3. PROVIDE 30"X36"X36"D COMPOSITE PULLBOXES WITH MINIMUM H20 RATED COVERS AT LOCATIONS SHOWN ON COMMUNICATIONS SITE DRAWING OR AS COORDINATED WITH ALL OTHER TRADES THAT WILL BE SHARING THE R.O.W.
4. CONDUIT SHALL BE BURIED 36" BELOW GRADE TO TOP OF THE CONDUIT.
5. PROVIDE 36"/40" SWEEPING BENDS AT UTILITY POLE AND IT ROOM 112.
6. FINISH TOP OF CONDUIT PENETRATIONS INTO IT ROOM 112 AT +3" AFF. PROVIDE PROTECTIVE BUSHINGS. PROVIDE WATER-PROOF RE-ENTERABLE PUTTY SEALANTS.
7. FINISH TOP OF CONDUITS TURNED UP AT UTILITY POLE AT MINIMUM +12" ABOVE GRADE. PROVIDE WATER-PROOF RE-ENTERABLE PUTTY SEALANTS.
8. PROVIDE WATER-PROOF RE-ENTERABLE PUTTY SEALANTS TO ENDS OF CONDUITS INSIDE PULL BOXES.
9. PROVIDE ONE (1) MAXCELL 3-CELL INNERDUCT IN ONE (1) OF THE COMMUNICATIONS CONDUIT. PROVIDE JET-LINE IN BOTH CONDUITS.

1 **SITE PLAN - IT**
1" = 20'-0"

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 20250228

SITE PLAN - IT

T1.00

DRG REFERENCE

2/28/2025 9:59:14 AM

IT GENERAL NOTES

1. CHOOSE A TURNKEY STRUCTURED CABLING SYSTEM THAT RELYS ON AN EXTENDED WARRANTY OF AT LEAST 15 YEARS DURATION AND CONSISTS OF PRODUCT THAT IS COMMON TO THE COMMUNICATIONS INDUSTRY AND READILY AVAILABLE FOR FUTURE ADDS, MOVES, OR CHANGES.
2. CONTRACTOR SHALL PROVIDE PRODUCT DATA AND SHOP DRAWING SUBMITTALS FOR REVIEW/APPROVAL BY THE COMMUNICATIONS DESIGN CONSULTANT PRIOR TO PURCHASE ACCORDING TO SUBMITTAL PROCEDURE PROVIDED BY THE ARCHITECTURAL SPECIFICATIONS.
3. PROVIDE TWO (2) NETWORK CABLES FOR EACH WORKSTATION OUTLET UNLESS NOTED OTHERWISE.
4. PROVIDE ONE (1) NETWORK CABLE FOR EACH WIRELESS ACCESS POINT.
5. PROVIDE ONE (1) NETWORK CABLE FOR EACH TV MONITOR IN THE LABS.
6. WORKSTATION CABLES SHALL BE PLENUM-RATED, 4-PAIR, UNSHIELDED, TWISTED PAIR, CATEGORY 6 RATED CABLES. NETWORK CABLES SHALL BE BLUE.
7. WIRELESS ACCESS POINT CABLES SHALL BE PLENUM-RATED, 4-PAIR, TWISTED PAIR, CAEGORY 6A RATED CABLES. WIRELESS CABLES SHALL BE BLUE.
8. ROUTE ALL CABLING THROUGH CEILINGS, SUSPEND WITH J-HOOK ASSEMBLIES ABOVE ALL OTHER TRADES WHERE FEASIBLE. PENETRATIONS THROUGH RATED WALLS SHALL BE MADE WITH MANUFACTURED FIRE-STOP SLEEVES. PENETRATIONS THROUGH "STINK WALL" SHALL BE COORDINATED WITH THE ARCHITECT.
9. ROUTE THE CABLES DOWN WALLS USING QUAD-SIZED BACKBOXES WITH SINGLE-GANG MUD-RINGS AND MINIMUM 1" CONDUITS STUBBED INTO ACCESSIBLE CEILINGS. BACKBOXES, MUD-RINGS, AND 1" CONDUIT PROVIDED BY DIVISION 26.
10. ROUTE CABLES DOWN WALLS AND INTO HORIZONTAL WIRE MANAGERS WHERE APPLICABLE ON THESE DRAWINGS.
11. TERMINATE WORKSTATION CABLES IN DUAL OR QUAD FACEPLATES WHERE APPLICABLE. COORDINATE FACEPLATE COLOR AND STYLE WITH ELECTRICAL OUTLETS.
12. TERMINATE WIRELESS ACCESS POINTS AT CEILINGS USING A MODULAR PLUG (MPTL). LEAVE 15' OF SLACK AT CEILING LOCATION.
13. TERMINATE WORKSTATION, TV MONITOR, AND WIRELESS ACCESS POINT CABLES ON MODULAR PATCH PANELS WITH SNAP-IN STYLE RJ-45 JACKS. JACKS SHALL BE CATEGORY 6 RATED FOR WORKSTATIONS AND CATEGORY 6A FOR WIRELESS ACCESS POINTS.
14. REFER TO ENLARGED IT ROOM PLAN AND ELEVATION KEYNOTES FOR ADDITIONAL INFORMATION.

KEYNOTES

1. DATA OUTLETS FED INTO FURNITURE FROM WALL.
2. DATA OUTLETS MOUNTED HORIZONTALLY IN RACEWAY CHANNEL. RE: ELECTRICAL DRAWINGS.
3. PROVIDE (1) DATA FOR TV/DISPLAY.
4. PROVIDE (4) DATA OUTLET FACEPLATE. COORDINATE EXACT LOCATION AND MOUNTING WITH EQUIPMENT. RE: ELECTRICAL DRAWINGS.

1 **FLOOR PLAN - IT**
3/16" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

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DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PLEASANTON, TEXAS

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PROJECT NO: 202420
DATE: 20250228

FLOOR PLAN - IT

T2.01

DRG REFERENCE

2/28/2025 9:59:15 AM

1 **FLOOR PLAN - AV**
3/16" = 1'-0"

DRAWN BY: Author
DESIGNED BY: Designer

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13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 20250228

FLOOR PLAN - AV

T2.02

DRG REFERENCE

2/28/2025 9:59:16 AM

DRG ARCHITECTS
1604 NACOGDOCHES RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7259
FAX: (210) 366-0847

1 AV
2 PROVIDE (1) 1-1/4"C TO MDF LADDER TRAY AND (1) 2"C TO SOUNDBOOTH.
3 SUB BURIED IN CONCRETE PANELS UNDER STAGE.

LEGEND

- (S1) CEILING-MOUNTED LOUDSPEAKER, DESONO #DX-IC8-W, 350W @ 8 OHMS, 65-20KHZ
- (S2) CEILING-MOUNTED LOUDSPEAKER, DESONO #DX-IC10, 350W @ 8 OHMS, 65-20KHZ
- (SB) CEILING-MOUNTED SUBWOOFER LOUDSPEAKER, DESONO #DX-1C10-W, 40-200HZ, 200W @ 8 OHMS
- (CM) CEILING MICROPHONE

1 REFLECTED CEILING PLAN - AV
3/16" = 1'-0"

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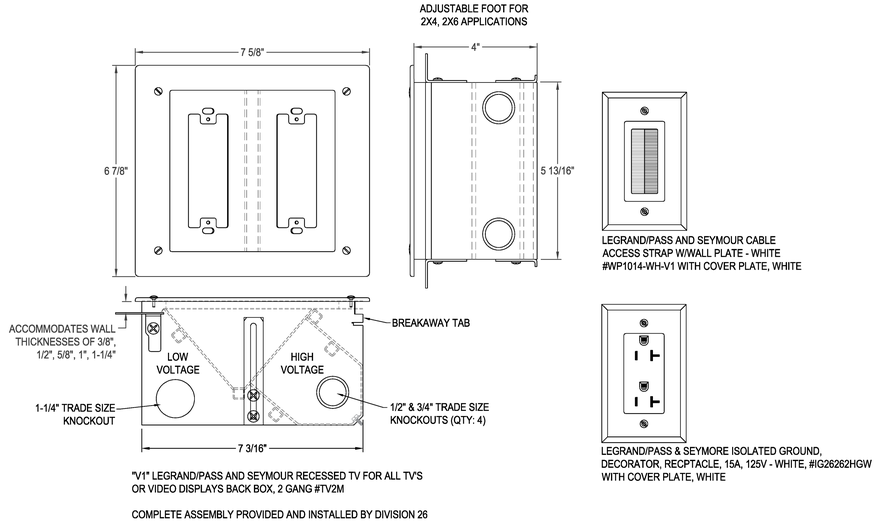
PROJECT NO: 202420
DATE: 20250228

REFLECTED CEILING PLAN - AV

T2.12

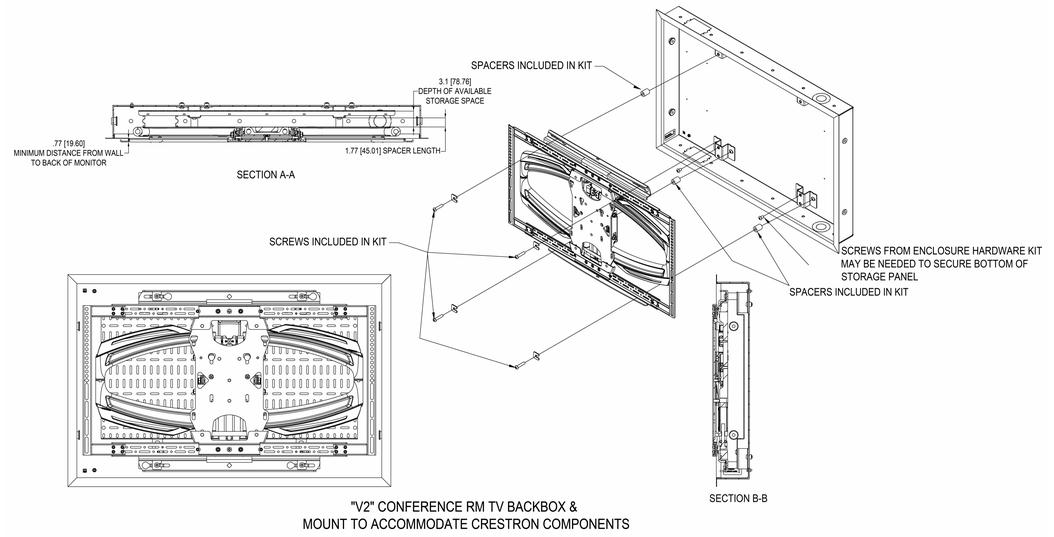
DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer



V1 DETAIL: PROVIDED AND
INSTALLED BY DIVISION 26

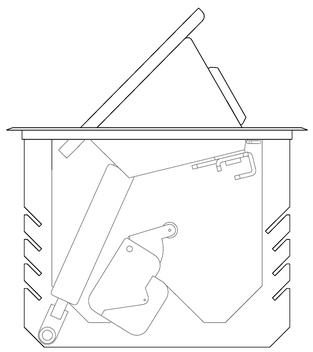
1 "V1" BACKBOX DETAIL
N.T.S.

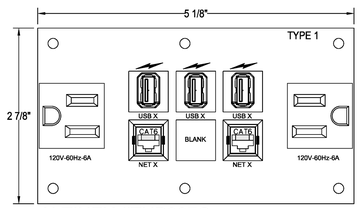


"V2" CONFERENCE RM TV BACKBOX &
MOUNT TO ACCOMMODATE CRESTRON COMPONENTS

2 "V2" CONFERENCE ROOM TV BACK BOX DETAIL
N.T.S.

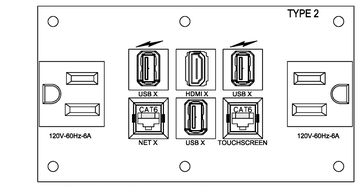
"X" IS ENGRAVED BY DIV. 27 AS
TO IDENTIFY DEVICE BY NUMBER





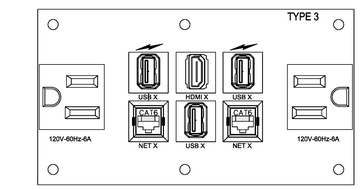
2 EA - CAT6 - #CM11352
3EA - USB CHARGER - #CM11370 (W/PWR.)
1EA - BLANK - #CM11301

ALTINEX #TNP327C



2 EA - CAT6 - #CM11352
2EA - USB CHARGER - #CM11370 (W/PWR.)
1EA - USB PORT #CM11370 (NO CHARGE)
1EA - HDMI - #CM11346

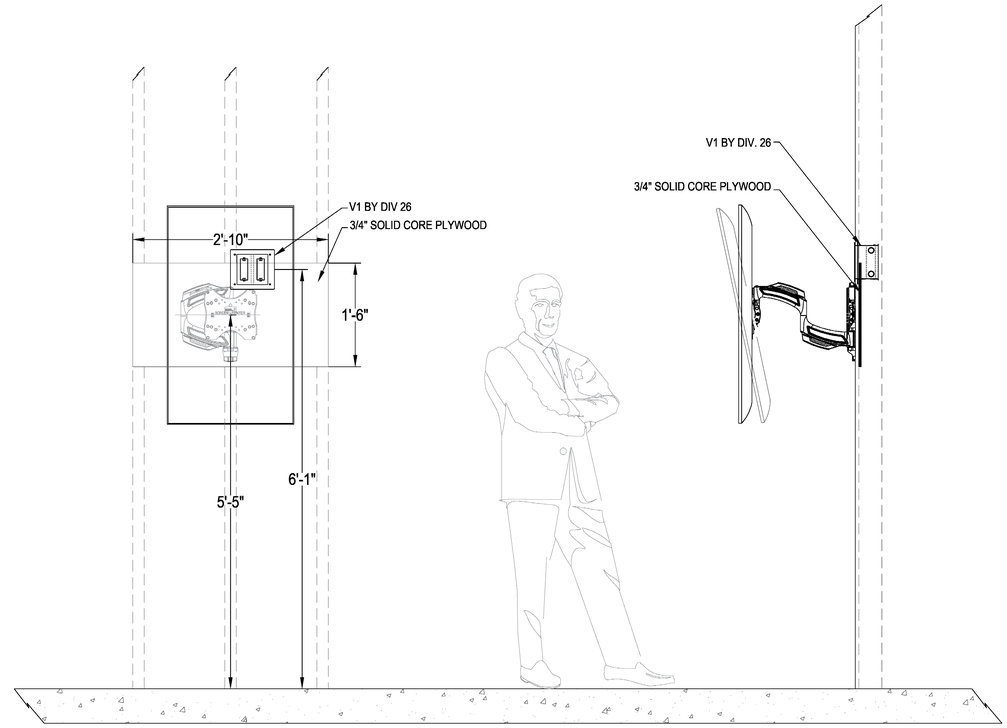
ALTINEX #TNP327C



2 EA - CAT6 - #CM11352
2EA - USB CHARGER - #CM11370 (W/PWR.)
1EA - USB PORT #CM11370 (NO CHARGE)
1EA - HDMI - #CM11346

ALTINEX #TNP327C

3 TABLE POCKET DETAILS
N.T.S.



ROOMS #134 & #135 - SAMSUNG #QM43N
W/CHIEF MOUNT #TS218SU
INSTALLATION DETAIL

4 DECOMP AND AUTOPSY DISPLAY MOUNT DETAIL
N.T.S.

DRAWN BY: Author
DESIGNED BY: Designer

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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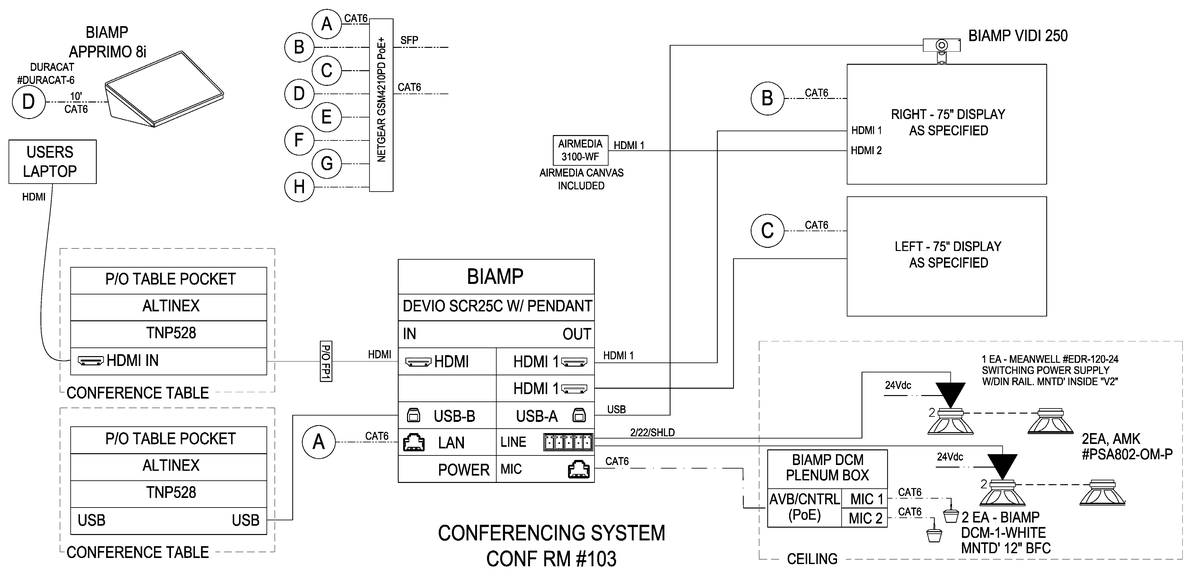
PROJECT NO: 202420
DATE: 20250228

AUDIOVISUAL DETAILS

T5.01

DRG REFERENCE



CONFERENCING SYSTEM
CONF RM #103

1 CONFERENCE ROOM AV SCHEMATIC

12" = 1'-0"

Rm No.	Room Name	Qty	Ident	Make	Model	Description
103	Large Conference / Family Meeting	2	Video Display	Samsung	LH75QMNEBGC/UE	75" LED, UHD Video Display, 500 NIT, 3,840x2,160 resolution, 6000:1 contract ratio, 8mSec response time.
		1	Power Supply	Meanwell	EDR-123-24	24Vdc, 5 Amp, regulated power supply DIN rail mounted. Include DIN rail for mounting inside "v2" for self powered ceiling loudspeakers
		2	Ceiling Loudspeakers	AMK	PSA802-JFM-P	8" coaxial loudspeaker, self power with 1 slave, include tile bridge - white
		1	PoE+ Switch	Netgear	GSM4210PD	8x1G PoE+ 110W 1x1G and 1x5FP Managed Switch, surface mounted
		1	Heavy Duty CAT6	Duracat	Duracat-6	6' heavy duty CAT6 cable for touchscreen display
		As Rqrd'	CAT6	Liberty	24-4P-P-L6ANS	Plenum rated CAT6 bulk cable, provide crimp type RJ45 with boot, print wire markers - Blue
		2	Table Pocket	Altinex	TNP327C - w/Type 1 custom plate	Reference drawings for details
		1	Table Pocket	Altinex	TNP327C - w/Type 2 custom plate	Reference drawings for details
		1	Table Pocket	Altinex	TNP327C - w/Type 3 custom plate	Reference drawings for details
		2	Floor Pocket	Ace Backstage	132CLBK	Floor pocket with carpet lid, black
		4	Elect Duplex Cover Plate	Ace Backstage	DB	Duplex Cover plate
		4	Duplex outlet	By Div 26		By Div.26
		2	Custom	Ace Backstage	Custom Connector Plate	Ref drawings for details
		1	Touch Screen	Biamp	Appro 8i	7" Programmable touchscreen for room control
		2	Cable	Extron	26-663-03	3' HDMI cable from table pocket to laptop
		2	Cable	Extron	26-663-03	3' USB cable from table pocket to laptop
		1	Processor	Biamp	Devio SCR25C	Processor with pendant mounted microphone, white
		1	Wireless Video	Crestron	AM-3100-WF	Secure wireless video receiver with WiFi, network connectivity. Allow for collaboration of multiple persons. AirMedia Canvas must be included.
		1	Conferencing Camera	Biamp	Vidi 250	Video conferencing camera, 4K, wide angle, 120 deg viewing angle, Auto Framing to identify participants, automatically zooms and focus to keep persons in view working in coordination with the Biamp microphone arrays.
		1	Microphone	Biamp	DCM-1-White	Pendant mounted microphone array, programmable, white
		1	Laptop	By Owner		OFOI
		2	V2 backbox assy	Chief	TAB1	Large Video display Backbox
		2	Display mounts	Chief	TS525TU	Large Thinstall™ Dual Swing Arm Wall Display Mount - 25 Inch Extension.
		2	Display mounts	Chief	TAS00	TAS00 Accessory for Flex Integrator Kits
		1	Display mounts	Chief	TA200	Thinstall™ Video Conferencing Camera Shelf - 8 Inch
134, 135	Autopsy / Decomp/Isolation Rms	2	V1 Backboxes	By Div 26		By Div 26
		2	Autopsy Video	Samsung	LH43QMNEBGC/UE	43" UHD LED video display, 3,840 x 2,160 Resolution, 500 NITS, 4,000:1 Contrast Ratio, 2 HDMI inputs, network, Bluetooth, RS232 control, WiFi interface.
		2	Video Mount	Chief	TS218SU	Medium Swing Arm Wall Display Mount, 18" extension, 12 degree tilt capable.
		2	HDMI	Custom	WP1	Custom punched, engraved and Neutrik HDMI jack mount, stainless steel, mounted horizontally in wireway. Ref E-series drawings for raceway details.
		2	Cable	Extron	26-726-25	25' HDMI cable, HD pro series for in-wall cable runs

2 AUDIOVISUAL EQUIPMENT ROOM MATRIX

N.T.S.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7950
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 20250228

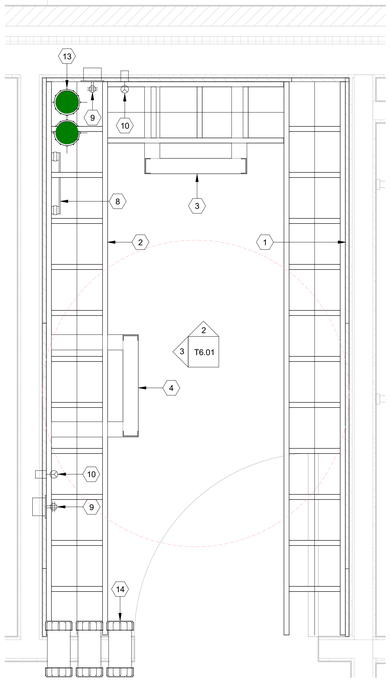
AUDIOVISUAL DETAILS

T5.02

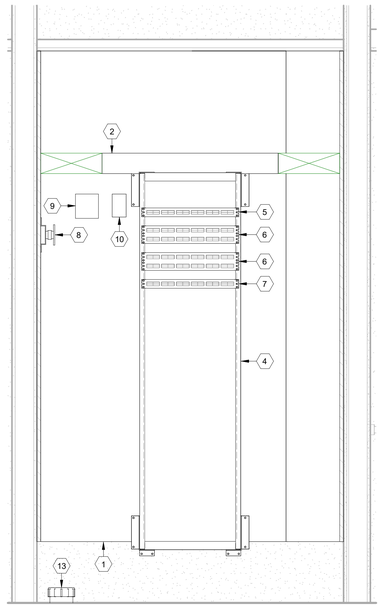
DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer

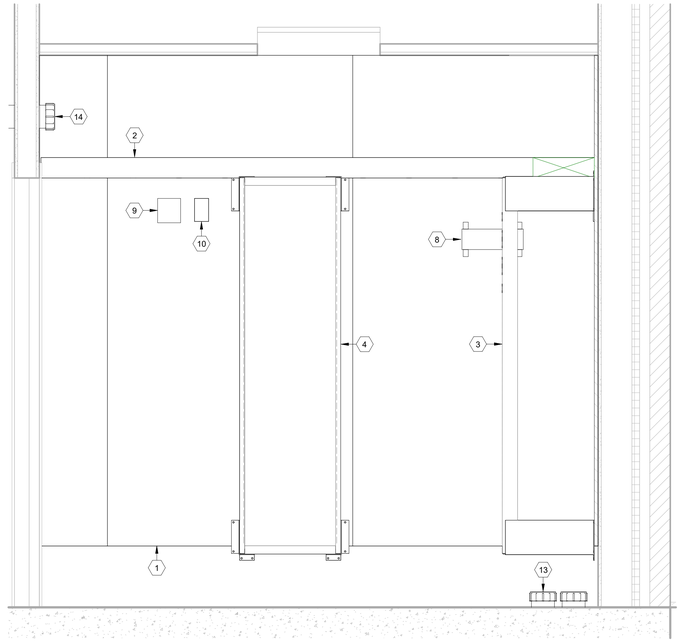
2/28/2025 9:59:18 AM



1 ENLARGED PLAN - IT 112
1" = 1'-0"



2 NORTH ELEVATION - IT 112
1" = 1'-0"



3 WEST ELEVATION - IT 112
1" = 1'-0"

KEYNOTES

1. FIRE-RATED PLYWOOD BACKBOARD, 4'X8'X3/4". APPLY TO WALLS WITH LONG DIMENSION VERTICAL STARTING AT +24" A.F.F. PAINT WITH FIRE-RETARDANT COATING TO MATCH EXISTING WALLS. A/C GRADE OR BETTER WITH BEST FINISH TO INSIDE OF IT ROOM. LEAVE RATING STAMPS UN-PAINTED.
2. OVERHEAD TELCO RUNWAY, 12" WIDE WITH BLACK POWDER-COAT FINISH. MOUNT AT 7'-0" A.F.F. TO BOTTOM OF CROSS-RUNGS. ATTACH TO PLYWOOD BACKBOARDS, RACKS, AND WALLS WITH MANUFACTURER-APPROVED ANCHORS, BRACKETS, AND BRACES.
3. 19" WIDE X 4RU" TALL HEAVY-DUTY, WALL-MOUNTED RELAY RACK, BLACK. MOUNT TOP OF RACK @ 7'-0" FOR IT.
4. 19" WIDE X 4RU" TALL HEAVY-DUTY, WALL-MOUNTED RELAY RACK, BLACK. MOUNT TOP OF RACK @ 7'-0" FOR AV.
5. 24-PORT, MODULAR HORIZONTAL CABLE PATCH PANELS DEDICATED FOR WIRELESS ACCESS POINTS. LEAVE SPACE BETWEEN PANELS FOR OFOI SWITCHES. CONFIRM THAT 2RU SPACING IS ADEQUATE WITH OWNER. PROVIDE NUMBER OF PANELS NEEDED TO TERMINATE ALL WIRELESS ACCESS POINT CABLING PLUS 10% GROWTH. PROVIDE ONE (1) RJ45-RJ45 PATCH CABLE FOR EACH TERMINATED PATCH PANEL PORT. PATCH CABLES TO BE CATEGORY 6A, 1.5 METER LENGTH. PROVIDE PORT ASSIGNMENT RECORDS AS PART OF AS-BUILT DOCUMENTATION.
6. 48-PORT, MODULAR HORIZONTAL CABLE PATCH PANELS FOR IT NETWORK CABLING. LEAVE SPACE BETWEEN PANELS FOR OFOI SWITCHES. CONFIRM THAT 2RU SPACING IS ADEQUATE WITH OWNER. PROVIDE THE NUMBER OF PANELS NEEDED TO TERMINATE ALL NETWORK CABLING PLUS 10% GROWTH. PROVIDE ONE (1) RJ45-RJ45 PATCH CABLE FOR EACH TERMINATED PATCH PANEL PORT. PATCH CABLES TO BE CATEGORY 6, 1.5 METER LENGTH. PROVIDE PORT ASSIGNMENT RECORDS AS PART OF AS-BUILT DOCUMENTATION.
7. 24-PORT, MODULAR HORIZONTAL CABLE PATCH PANELS FOR TV NETWORK CABLING. LEAVE SPACE BETWEEN PANELS FOR CFCI SWITCHES. CONFIRM THAT 2RU SPACING IS ADEQUATE WITH OWNER. PROVIDE THE NUMBER OF PANELS NEEDED TO TERMINATE ALL NETWORK CABLING PLUS 10% GROWTH. PROVIDE ONE (1) RJ45-RJ45 PATCH CABLE FOR EACH TERMINATED PATCH PANEL PORT. PATCH CABLES TO BE CATEGORY 6, 1.5 METER LENGTH. PROVIDE PORT ASSIGNMENT RECORDS AS PART OF AS-BUILT DOCUMENTATION.
8. BUSBAR FOR DEDICATED TELECOMMUNICATIONS USE: SIZED, PROVIDED, & INSTALLED BY DIVISION 26. PRIMARY (20"X4"X1/4" COPPER) BUSBAR TO BE INSTALLED IN SEC/ IT ROOM 200. DIVISION 26 TO CONNECT PRIMARY TELECOMMUNICATIONS BUSBAR TO MAIN ELECTRICAL GROUND. DIVISION 27 TO PROVIDE AND INSTALL MINIMUM #6 AWG BONDING CONDUCTORS FROM ALL METAL COMPONENTS INSTALLED IN IT ROOM. REFER TO ANSI/TIA 607 TYPICAL BONDING & GROUNDING METHODS, EXAMPLE INCLUDED IN SPECIFICATIONS.
9. 120V/20A, 2 CKT QUAD OUTLET BY DIVISION 26 MOUNTED AT +80" AFF TO LEFT OF RELAY RACKS ON WALL.
10. 120 OR 208V/30A TWIST LOCK OUTLET BY DIVISION 26 MOUNTED AT +80" AFF TO LEFT OF RELAY RACK ON WALL FOR OFOI UPS. COORDINATE POWER REQUIREMENTS WITH OWNER.
11. 120V/20A, 2 CKT QUAD OUTLET BY DIVISION 26 MOUNTED ON WALL AT +15" A.F.F FOR WALL-MOUNTED EQUIPMENT.
12. 110V/15A DUPLEX CONVENIENCE OUTLET BY DIVISION 26.
13. TWO (2) 4" SCHEDULE 40, PVC SERVICE ENTRANCE CONDUIT. EXTEND +3" A.F.F. PROVIDE THREADED BUSHINGS. REFER TO SITE DRAWINGS FOR CONTINUATION.
14. THREE (3) 4" FIRE-RATED SLEEVES INTO CEILING SPACE BEYOND. SIZE AND QUANTITY BASED ON 40% FILL RATIO FOR ALL LOW-VOLTAGE CABLING ENTERING IT ROOMS.

DRG ARCHITECTS
13300 OLD BLANCO RD.
SUITE 175
SAN ANTONIO, TEXAS 78216
TEL: (210) 349-7550
FAX: (210) 366-0847

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PROJECT NO: 202420
DATE: 20250228

TELECOM EQUIPMENT ROOM DETAILS

T6.01

DRG REFERENCE

DRAWN BY: Author
DESIGNED BY: Designer