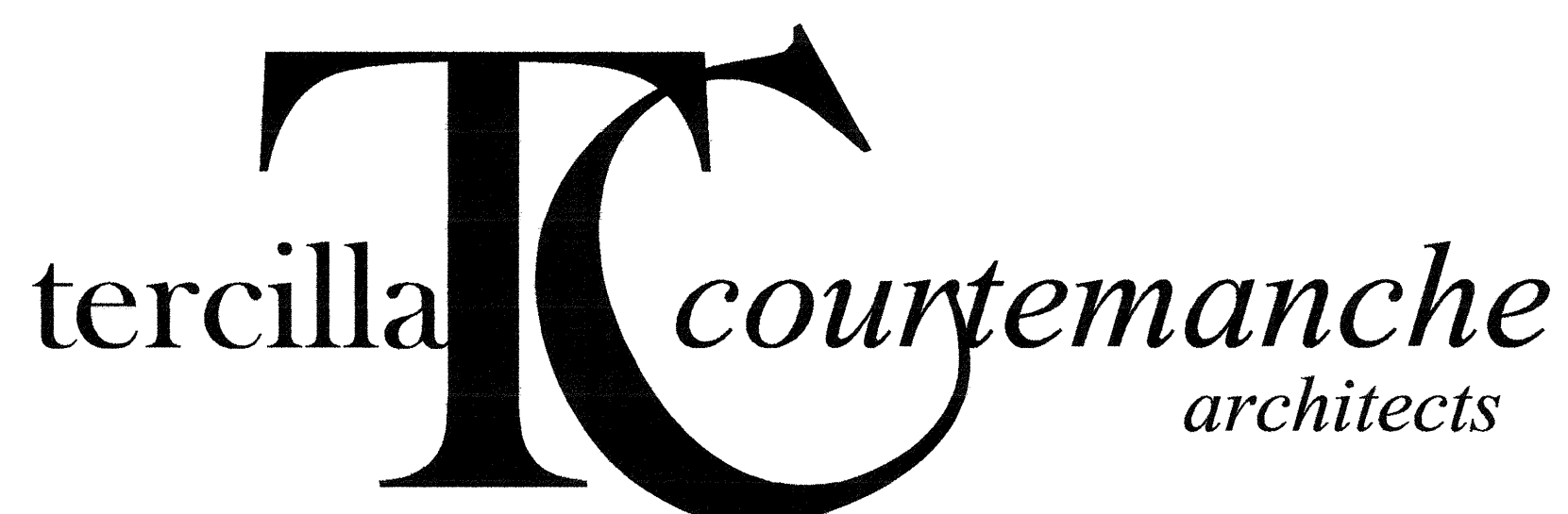


Tenant Improvement for:  
**Building B, Bay 6**  
**SOUTHERN PARK OF COMMERCE**  
Palm Beach County, Florida



AA 0003414

TO THE BEST OF MY KNOWLEDGE,  
THESE DRAWINGS ARE COMPLETE AND  
COMPLY WITH THE FLORIDA BUILDING CODE, THE FLORIDA  
FIRE PREVENTION CODE AND ALL OTHER APPLICABLE  
CODES AND REGULATIONS.

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SHEET INDEX

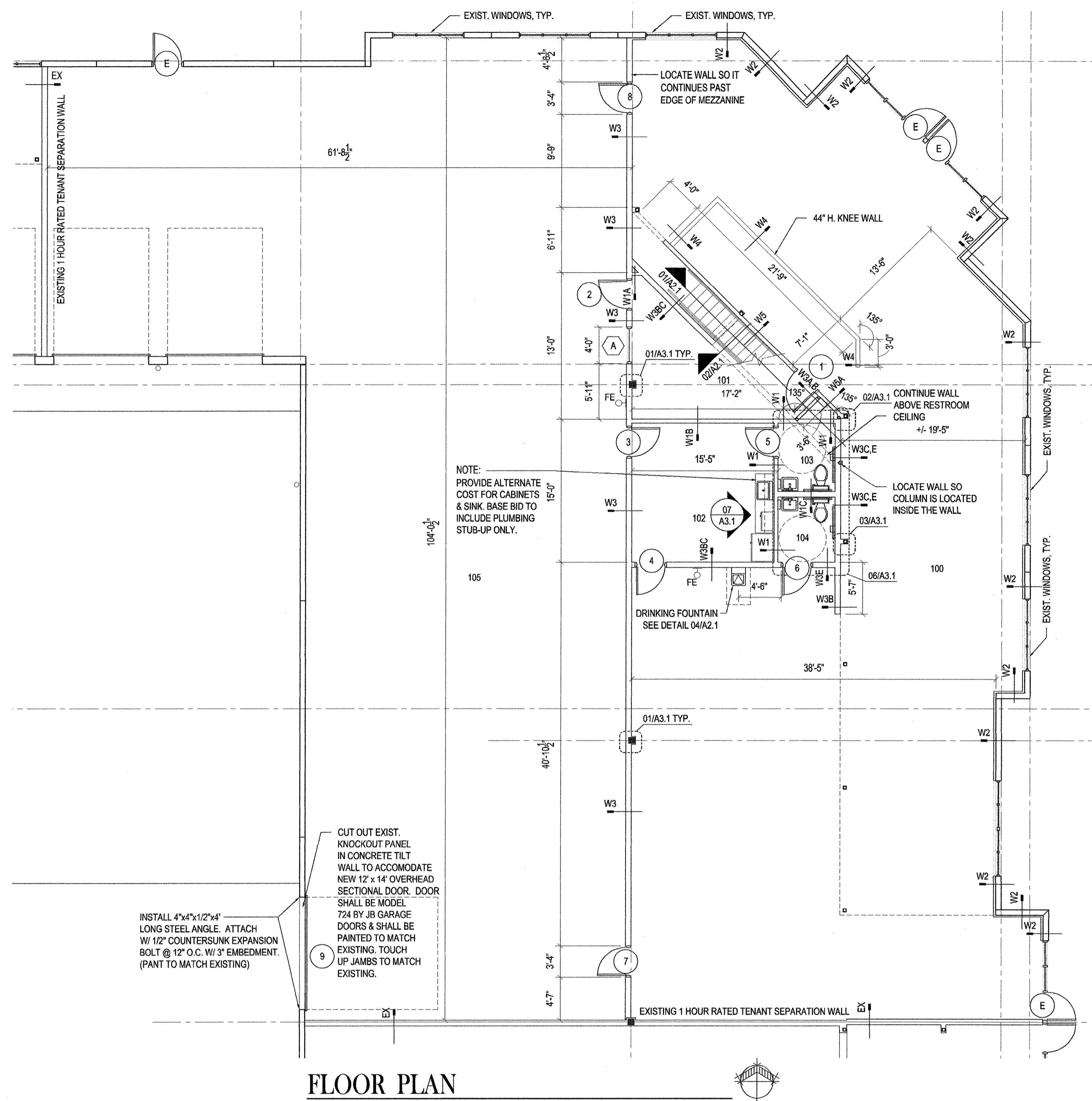
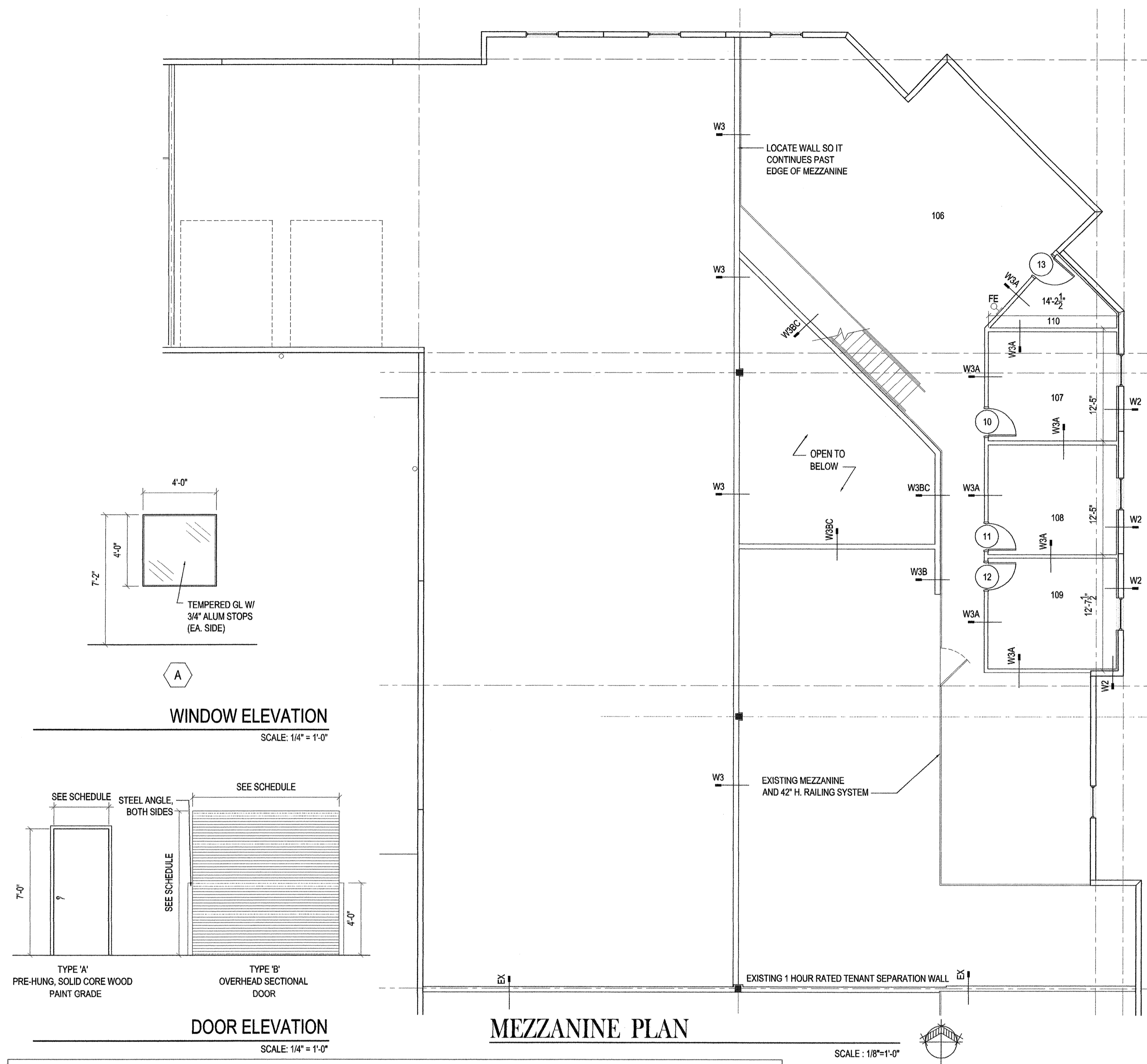
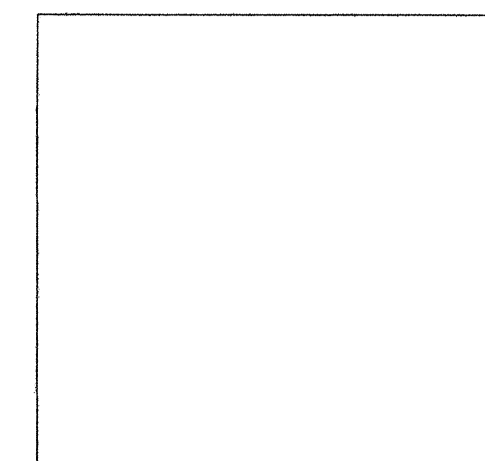
ARCHITECTURAL

COVER SHEET

- A1.1 FLOOR PLAN, MEZZANINE PLAN & SCHEDULES
- A2.1 LOWER & UPPER REFLECTED CEILING PLANS & SCHEDULES
- A3.1 DETAILS & WALL TYPES

MECHANICAL / ELECTRICAL / PLUMBING

- M1.1 HVAC PLANS
- M1.2 PLUMBING PLANS & DETAILS
- M2.1 MECHANICAL NOTES, SCHEDULES & DETAILS
- E1.1 LIGHTING PLANS, SCHEDULES & DETAILS
- E1.2 POWER PLANS, NOTES, SCHEDULES & DETAILS



**FINISH SCHEDULE**

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CLNG. HGT.	REMARKS
100	CONDITIONED WAREHOUSE	-	4" VINYL	G.W.B./PAINTED	EXPOSED	-	PAINT METAL DECK & STRUCTURAL STEEL BLACK
101	OFFICE	-	4" VINYL	G.W.B./PAINTED	ACT	9'-0" A.F.F.	
102	KITCHENETTE	-	4" VINYL	G.W.B./PAINTED	2X4 ACT	9'-0" A.F.F.	
103	RESTROOM	-	4" VINYL	G.W.B./PAINTED	G.W.B.	9'-0" A.F.F.	
104	RESTROOM	-	4" VINYL	G.W.B./PAINTED	G.W.B.	9'-0" A.F.F.	
105	WAREHOUSE	-	4" VINYL	CONC.	-	-	TAPE & MUD GWB ONLY
106	MEZZANINE	-	-	CONC.	EXPOSED	-	PAINT METAL DECK & STRUCTURAL STEEL BLACK PROVIDE BASE AT GWB PARTITIONS, TAPE & MUD GWB ONLY
107	OFFICE	-	4" VINYL	G.W.B./PAINTED	ACT	8'-0" A.F.F.	
108	OFFICE	-	4" VINYL	G.W.B./PAINTED	ACT	8'-0" A.F.F.	
109	OFFICE	-	4" VINYL	G.W.B./PAINTED	ACT	8'-0" A.F.F.	
110	PHONE RM/STORAGE	-	-	G.W.B./PAINTED	ACT	8'-0" A.F.F.	

**FINISH SCHEDULE NOTES:**  
 1. ALL FLOORING FINISHES TO BE SELECTED BY TENANT AND INSTALLED BY CONTRACTOR.  
 2. CONFIRM ALL FINISH MATERIALS WITH TENANT PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WALLCOVERINGS, FLOORING, WALL BASE, CABINETS, ETC.  
 3. PAINT TO BE APPLIED AS FOLLOWS: ONE (1) COAT OF PRIMER AND TWO (2) COATS OF FINISH PAINT  
 4. CONTRACTOR TO PROVIDE TRANSITION STRIPS AT THE CENTER OF DOOR OPENINGS WHERE DIFFERING FLOORING MATERIALS MEET.  
 5. CONTRACTOR SHALL PROVIDE 3/16" V.D. MATERIAL ALL AROUND FOR CARPET.  
 6. VCT TO BE ARMSTRONG STANDARD EXCELRON W/ 4" BURKE MERCER VINYL BASE.

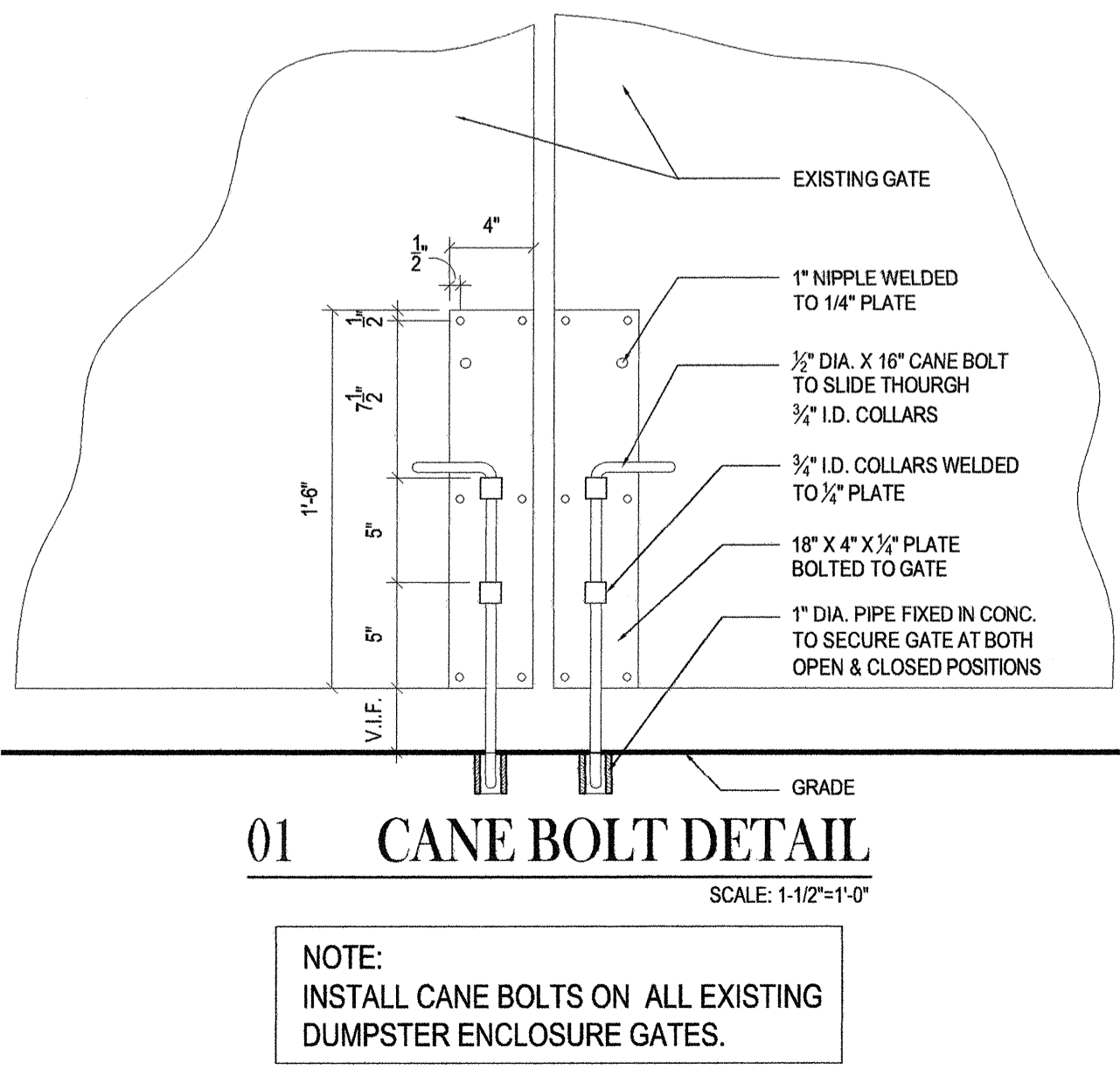
**DOOR SCHEDULE**

OPENING NUMBER	DOOR	FRAME	REMARKS
1	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	
2	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	PROVIDE WEATHER STRIPPING AND THRESHOLD
3	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	PROVIDE WEATHER STRIPPING AND THRESHOLD
4	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	
5	3'-0" x 6'-8"	WOOD A WD. PRIVACY SET	
6	3'-0" x 6'-8"	WOOD A WD. PRIVACY SET	
7	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	PROVIDE WEATHER STRIPPING AND THRESHOLD
8	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	PROVIDE WEATHER STRIPPING AND THRESHOLD
9	12'-0" x 14'-0"	STL B STL. MATCH EXISTING	
10	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	
11	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	
12	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	
13	3'-0" x 6'-8"	WOOD A WD. PASSAGE SET	
E	EXISTING	-	

**DOOR HARDWARE SETS:**  
 1. CONTRACTOR TO VERIFY ALL DOOR HARDWARE REQUIREMENTS W/ TENANT PRIOR TO INSTALLATION.  
 2. ALL INTERIOR WOOD DOORS, FRAMES & HARDWARE SHALL BE SUPPLIED AND INSTALLED BY TENANT.  
 CONTRACTOR TO COORDINATE SCHEDULING WITH TENANT.

**BUILDING CODE INFORMATION**  
 BASED ON FLORIDA BUILDING CODE 2007

BUILDING TYPE	TYPE I-B CONSTRUCTION SPRINKLERED
OCCUPANCY: GROUP F-1, FACTORY INDUSTRIAL	
AREA CALCULATIONS:	
OFFICE:	147 SF
BREAKROOM:	284 SF
A/C W.H.:	3,897 SF
NON A/C W.H.:	4,485 SF
FIRST FLOOR TOTAL:	8,583 SF
MEZZANINE:	
OFFICE:	537 SF
STORAGE:	1,825 SF
MEZZANINE TOTAL:	2,362 SF
TOTAL TENANT AREA:	10,625 SF
Emergency Lighting and Exit Signs	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Fire Alarm and Smoke Detection Systems	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Panic Hardware	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
EXIT REQUIREMENTS:	
Dead end limit-maximum condition	50 Feet
Travel distance to exit-maximum condition	250 Feet

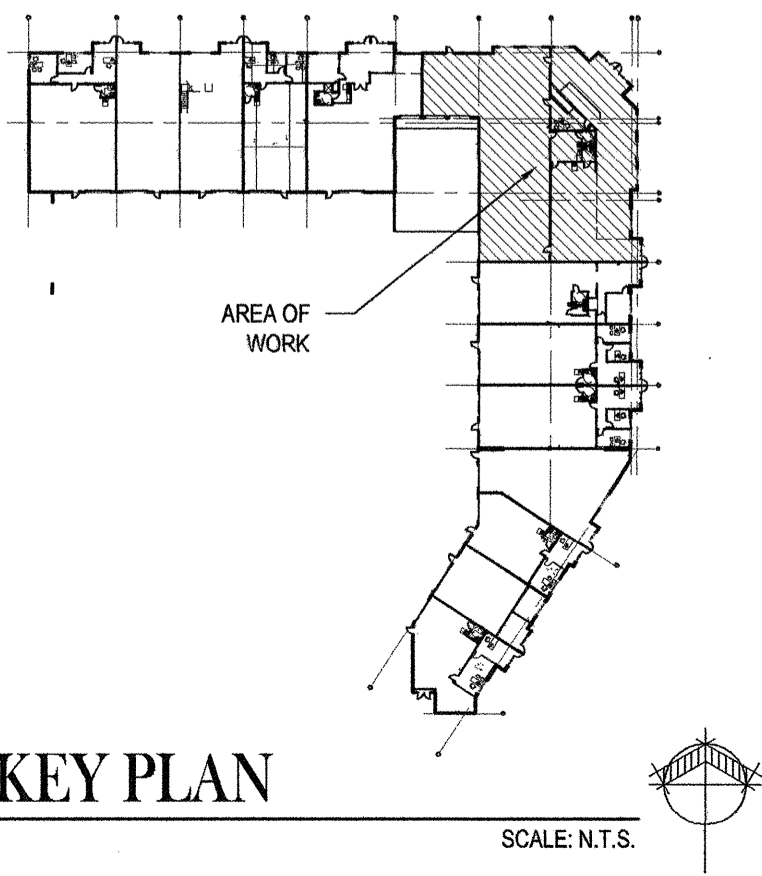


**NOTE:**  
 INSTALL CANE BOLTS ON ALL EXISTING DUMPSTER ENCLOSURE GATES.

**GENERAL NOTES**

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL AND APPLICABLE CODES  
 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND REGULATIONS OF THE BUILDING STANDARDS AND LOCAL JURISDICTIONS.  
 ALL FINISH MATERIALS, HARDWARE, ETC. SHALL MATCH THE BUILDING STANDARDS UNLESS NOTED OTHERWISE. IF THE CONTRACTOR HAS DIFFICULTY MATCHING BUILDING STANDARDS HE/SHE SHALL OBTAIN THE ARCHITECT'S APPROVAL PRIOR TO SUBSTITUTING ANY ITEMS.  
 PROPER CARE AND PROTECTION SHALL BE PROVIDED FOR ALL AREAS ADJACENT TO CONSTRUCTION AND ANY DAMAGE THAT MAY OCCUR TO THESE AREAS AS A RESULT OF THIS CONSTRUCTION SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR TO THE ORIGINAL CONDITION  
 ANY WORK THAT MUST BE PERFORMED IN OTHER TENANT SPACES IN RELATION TO THIS CONSTRUCTION SHALL BE PERFORMED IN A MANNER SO AS NOT TO DISRUPT THE OWNER, ALL WALLS, SLABS, CEILING, ETC. DISTURBED IN OTHER SPACES SHALL BE RESTORED TO ORIGINAL CONDITION ONCE WORK IS COMPLETE.  
 EXISTING FIRE RATINGS SHALL BE MAINTAINED AT SLAB PENETRATIONS RATED WALLS, RATED CEILING ASSEMBLIES AND FIRE COMPARTMENT ZONES  
 REVIEW FINAL LOCATIONS AND QUANTITIES OF FIRE EXTINGUISHERS WITH FIRE MARSHAL PRIOR TO CONSTRUCTION.  
 FIRE EXTINGUISHERS SHALL BE PLACED AT INTERVALS NOT EXCEEDING A TRAVEL DISTANCE OF 75'.  
 ALL ROOF PENETRATIONS & RELATED ROOF WORK SHALL BE BY LATTIE ROOFING & SHEET METAL COMPANY.  
 FIRE SPRINKLER RELOCATION TO BE INCLUDED IN BID.

**NOTE:**  
 GC SHALL VERIFY THAT ROOF EQUIPMENT SELECTION DOES NOT EXCEED PARAPET HEIGHT. NOTIFY ARCHITECT PRIOR TO UNIT PURCHASE OF ANY CONDITION WHERE THIS CANNOT BE MET.



**KEY PLAN**

SCALE: N.T.S.





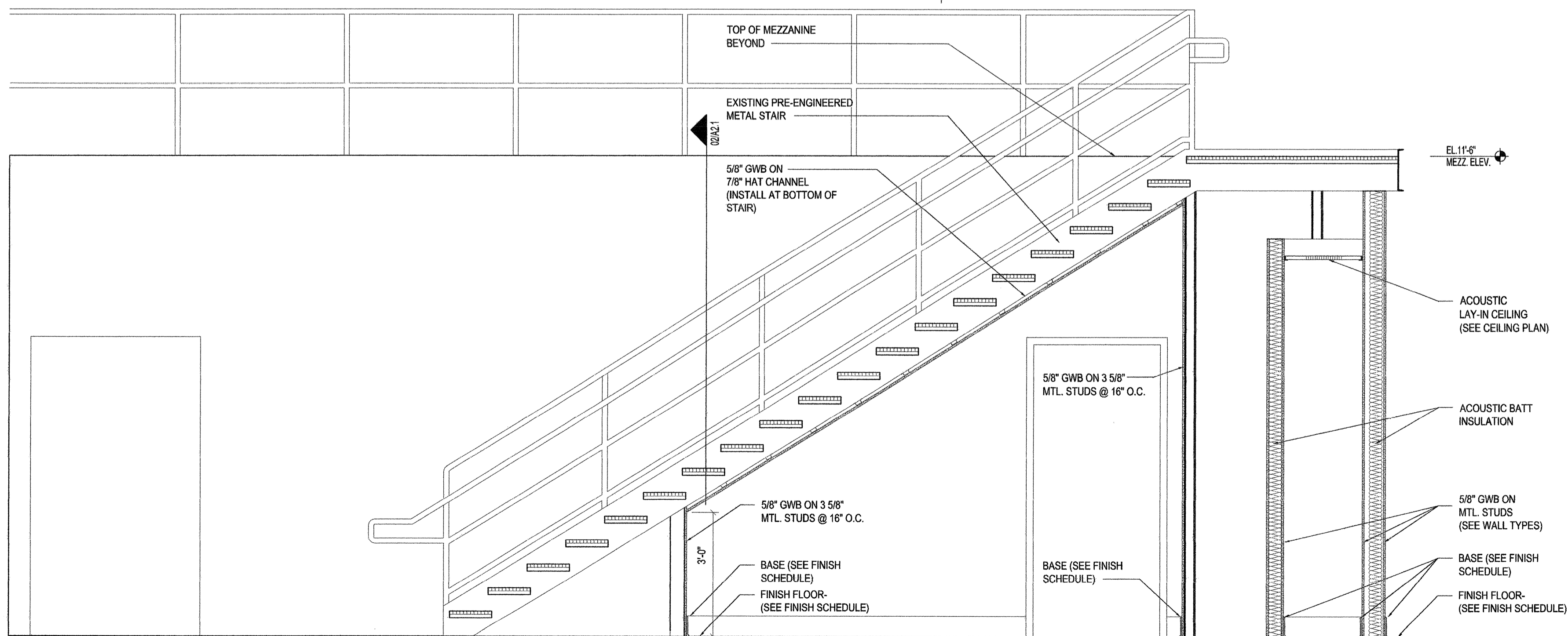
UPPER REFLECTED CEILING PLAN

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



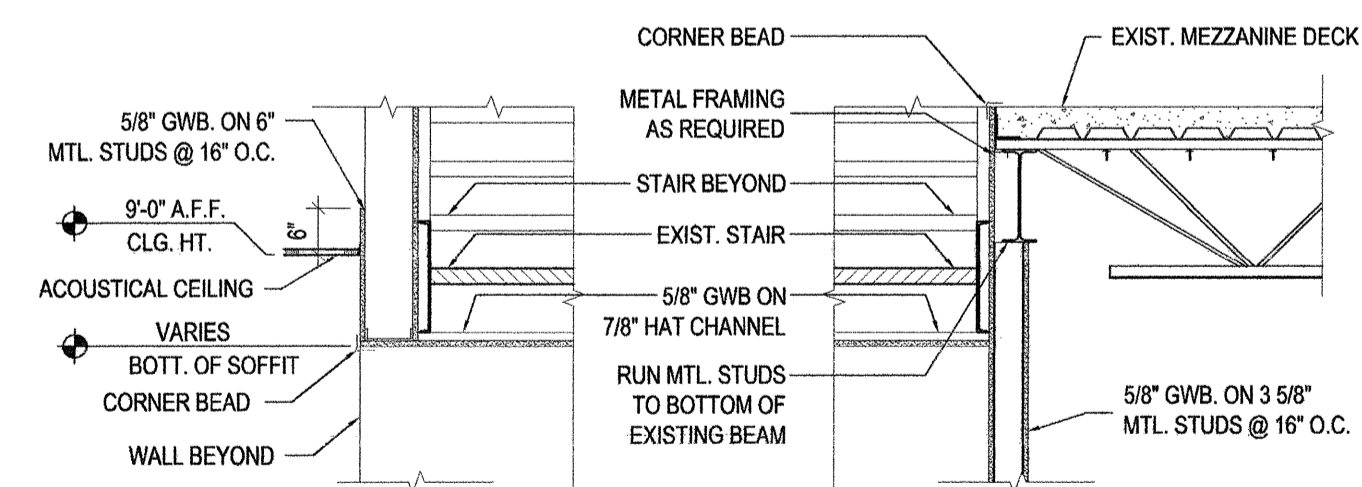
LOWER REFLECTED CEILING PLAN

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



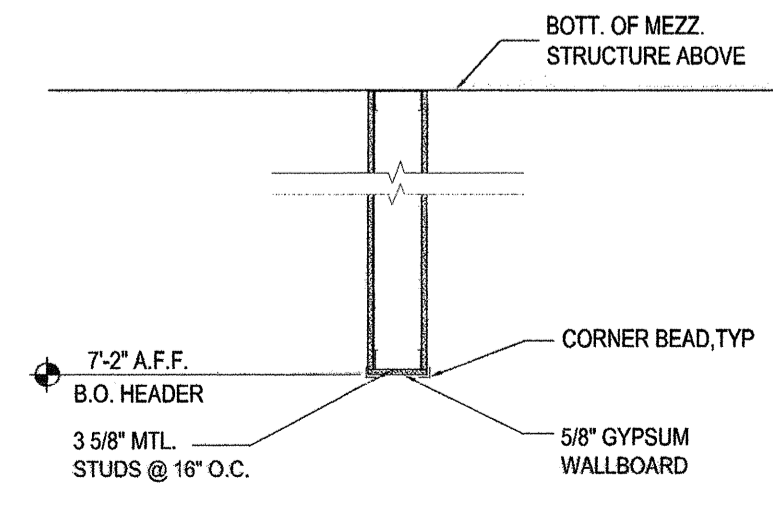
01 STAIR SECTION

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



02 STAIR SECTION

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



03 SOFFIT DETAIL

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

CEILING LEGEND	
	2x4 ARMSTRONG FINE FISSURED SQUARE LAY-IN CEILING #1729 W/ 1516 PRELUDE XL EXPOSED TEE GRID.
	GYPSUM BOARD CEILING/SOFFIT
	2x4 FLUORESCENT FIXTURE
	8' FLUORESCENT FIXTURE
	EXIT SIGN
	EMERGENCY FIXTURE
NOTES: REFER TO ELECTRICAL PLANS FOR FIXTURE TYPES & SCHEDULE	

commission 29012

date: 6-3-09

revision date

no.

drawing A2.1

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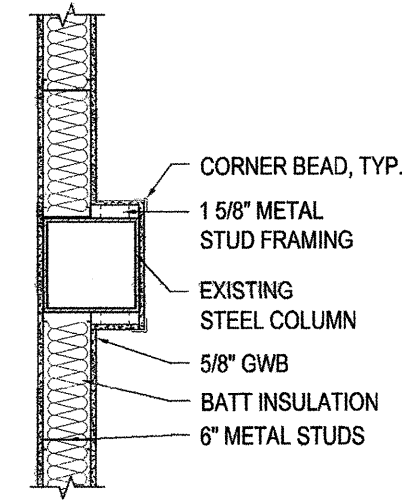
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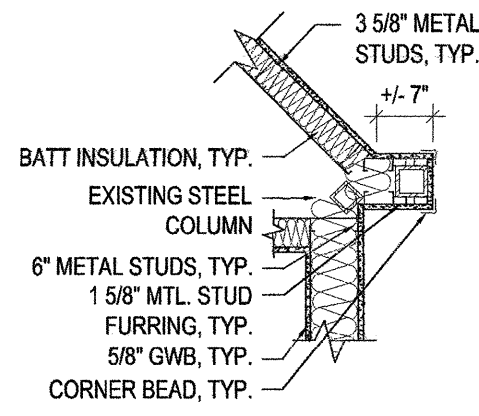
**tercilla**  
*Courtemanche*  
architects

AA 0003414  
2047 vista parkway, suite 100  
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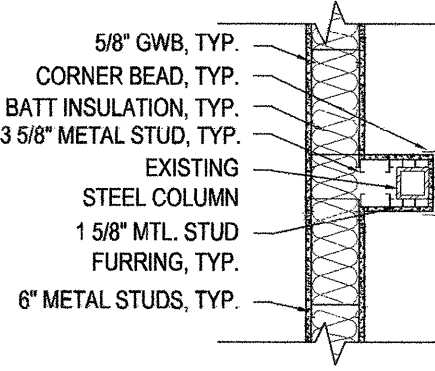
Tenant Improvement for:  
**Building B, Bay 6**  
Southern Park of Commerce  
Palm Beach County, FL



01 COLUMN DETAIL  
SCALE: 1/2"=1'-0"

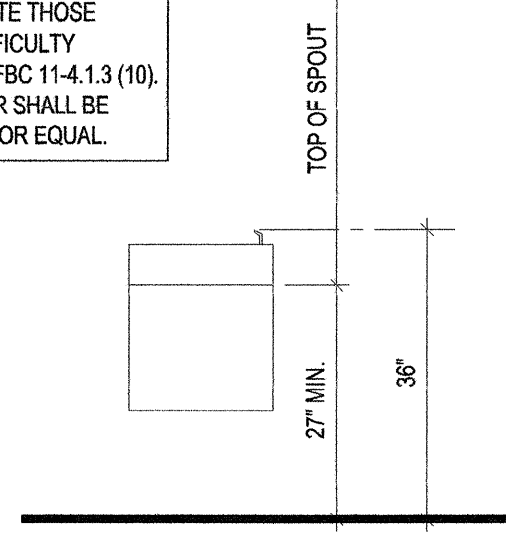


02 COLUMN DETAIL  
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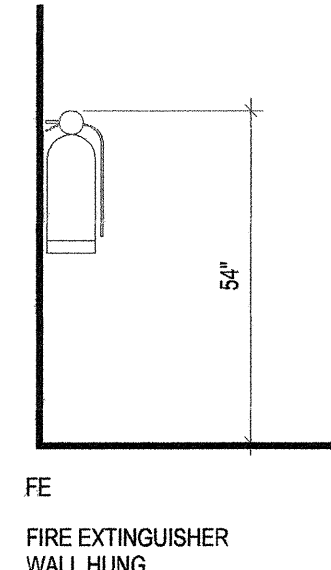


03 COLUMN DETAIL  
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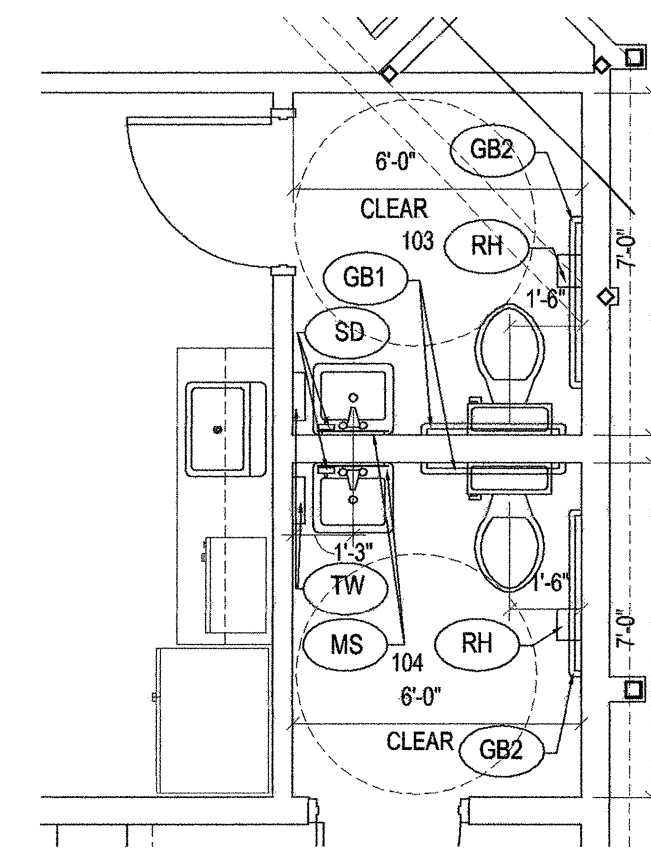
NOTE:  
ACCESSIBLE DRINKING  
FOUNTAIN SHALL BE  
MOUNTED PER FBC 11-4.15.  
PROVIDE CUP DISPENSER  
TO ACCOMMODATE THOSE  
WHO HAVE DIFFICULTY  
BENDING, PER FBC 11-4.1.3 (10).  
CUP DISPENSER SHALL BE  
BOBRICK B-235 OR EQUAL.



04 DRINKING FOUNTAIN DETAIL  
SCALE: 1 1/2"=1'-0"

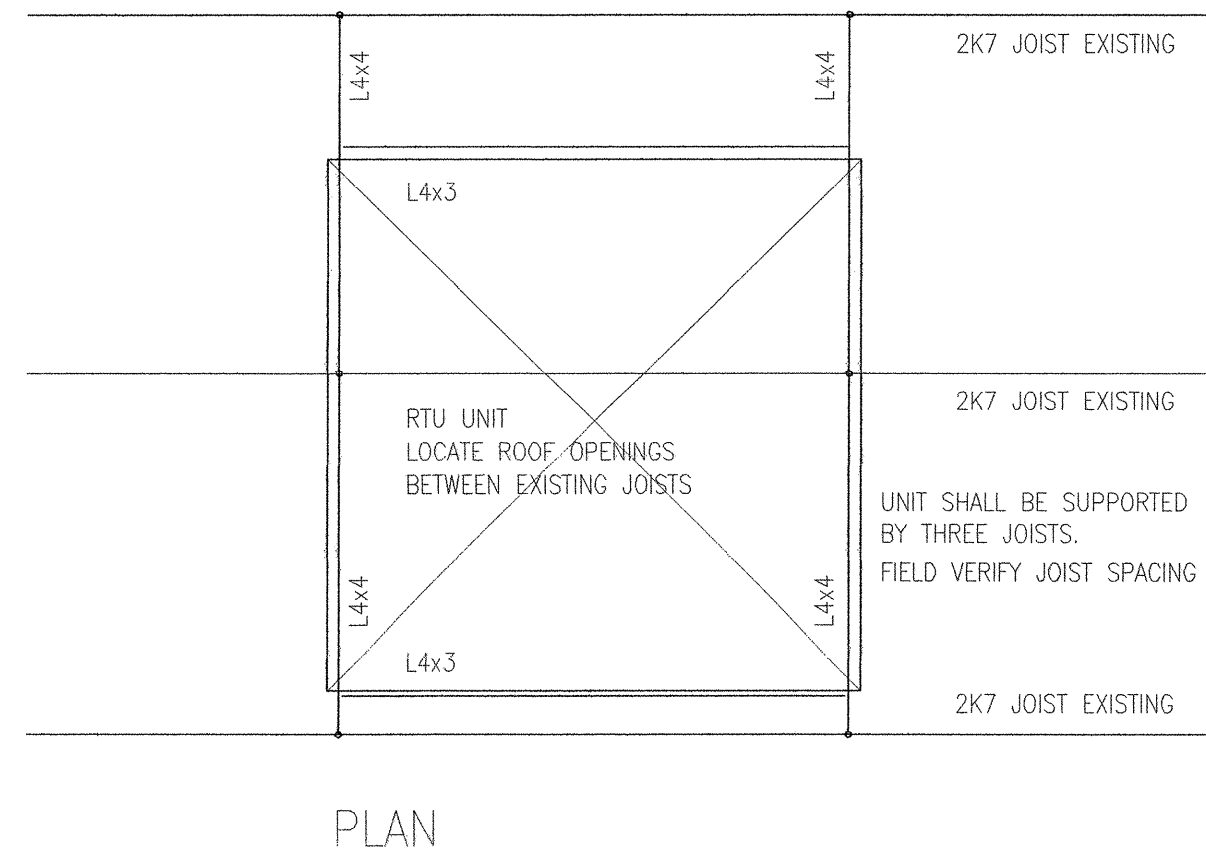


05 FIRE EXTINGUISHER DETAIL  
SCALE: 1 1/2"=1'-0"

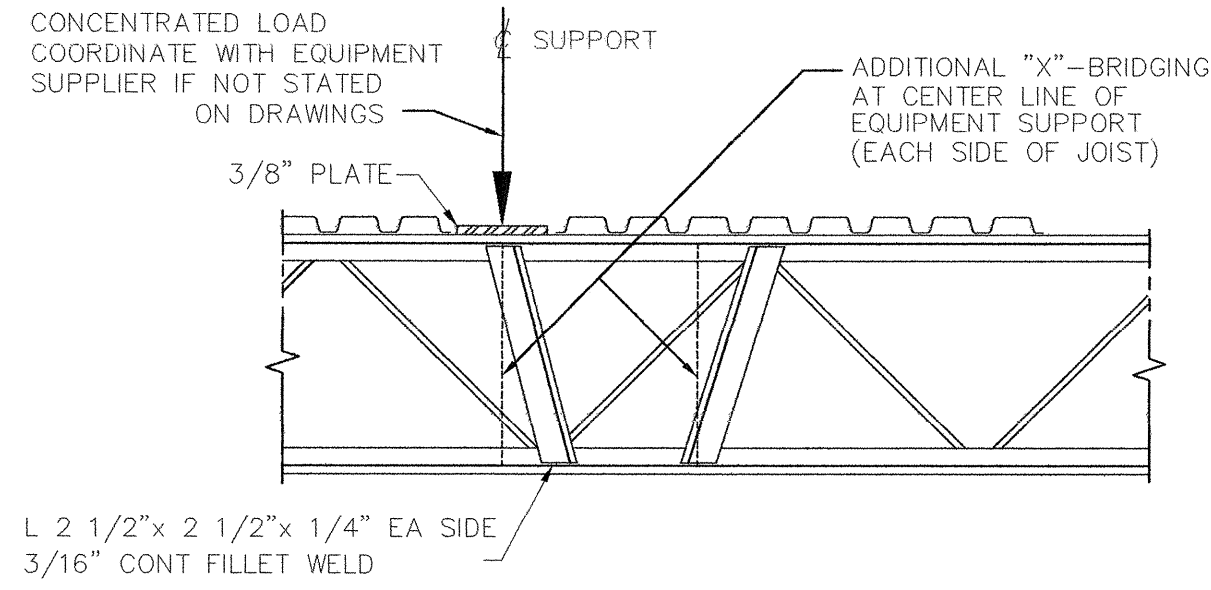


06 ENLARGED RESTROOM  
SCALE: 1/4"=1'-0"

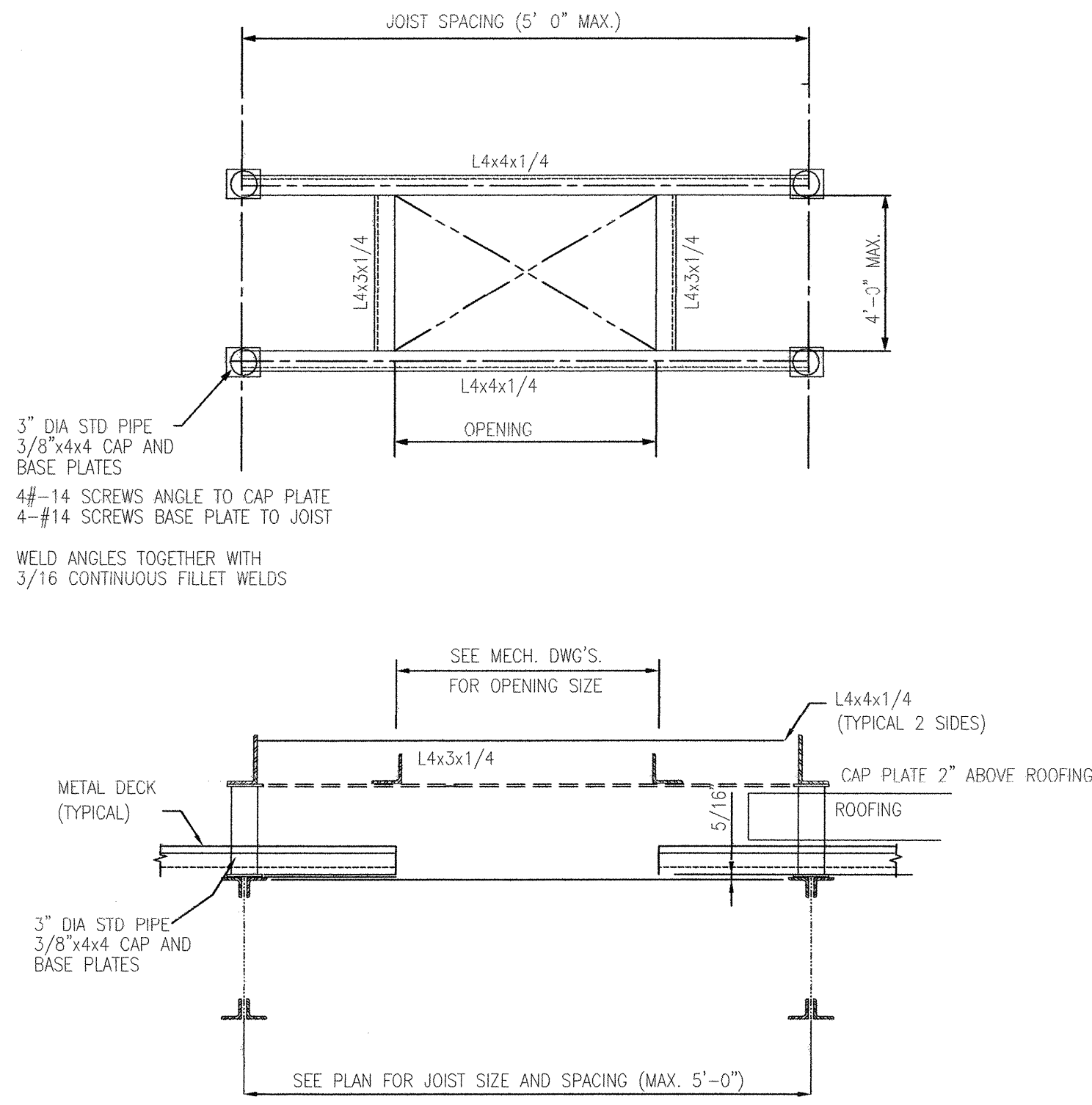
RESTROOM ACCESSORIES	
GB1	36" STAINLESS STEEL GRAB BAR (BOBRICK B-6806x36 OR EQUAL)
GB2	42" STAINLESS STEEL GRAB BAR (BOBRICK B-6806x42 OR EQUAL)
MS	18"x30" FRAMED MIRROR (BOBRICK B-165 1830 OR EQUAL)
TW	SURFACE MOUNTED PAPER TOWEL DISPENSER (BOBRICK B-262 OR EQUAL)
SD	SURFACE MOUNTED SOAP DISPENSER (BOBRICK B-2111 OR EQUAL)
RH	TOILET TISSUE DISPENSER (BOBRICK B-76857 OR EQUAL)



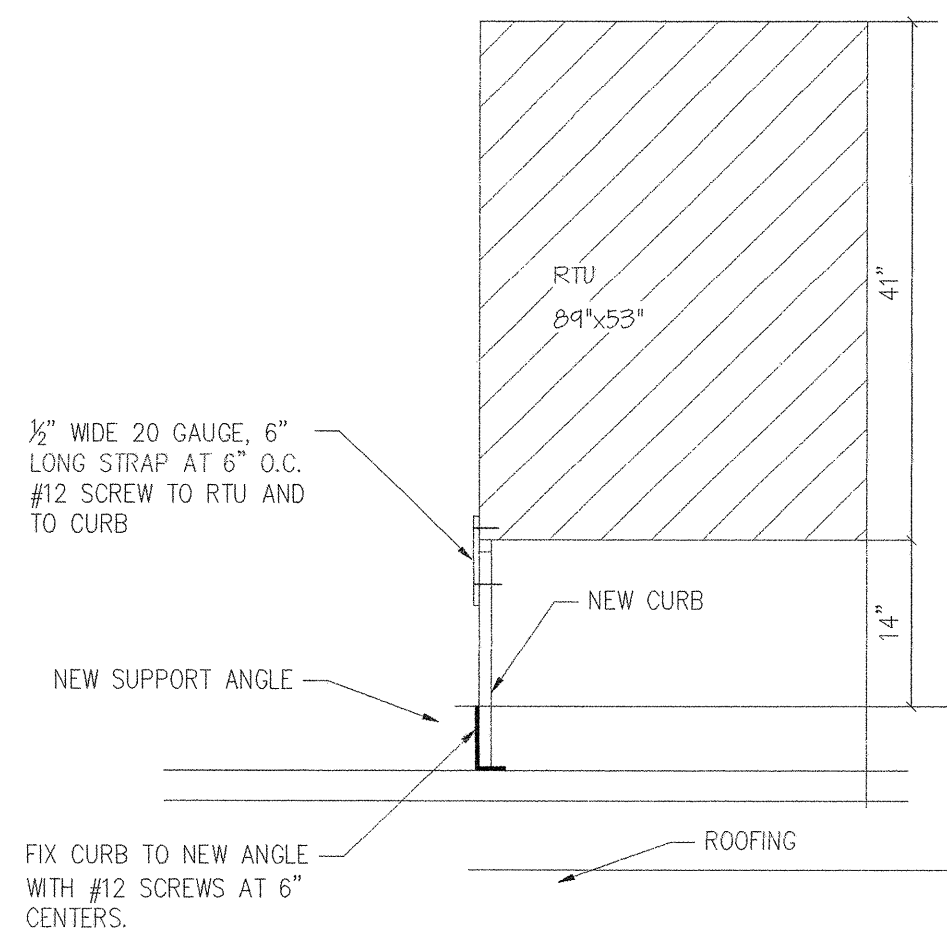
07 PLAN  
SCALE: 1/2"=1'-0"



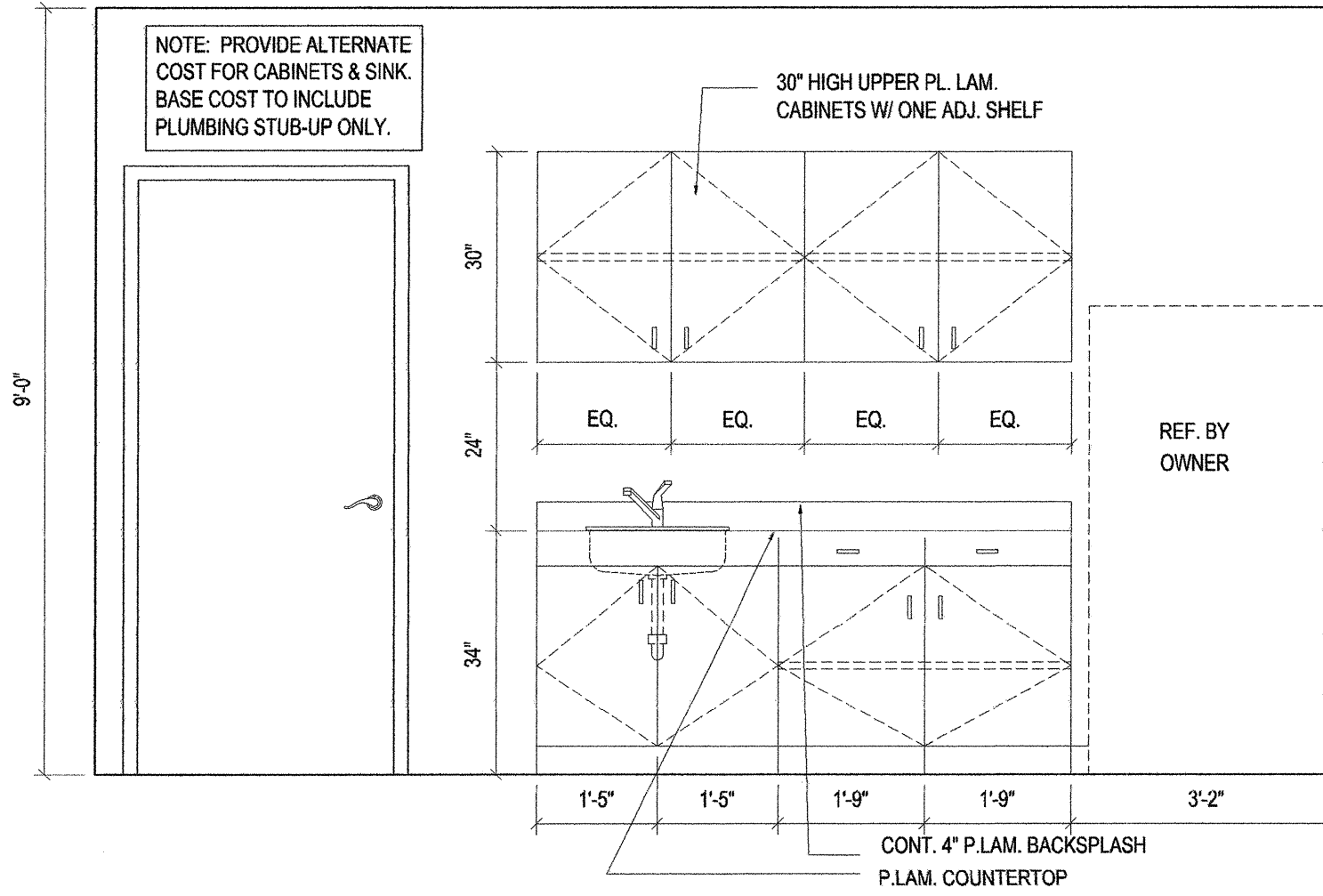
08 JOIST REINFORCING AT CONCENTRATED LOAD AND/OR AT HANGING FAN CORE UNITS  
SCALE: 1/2"=1'-0"



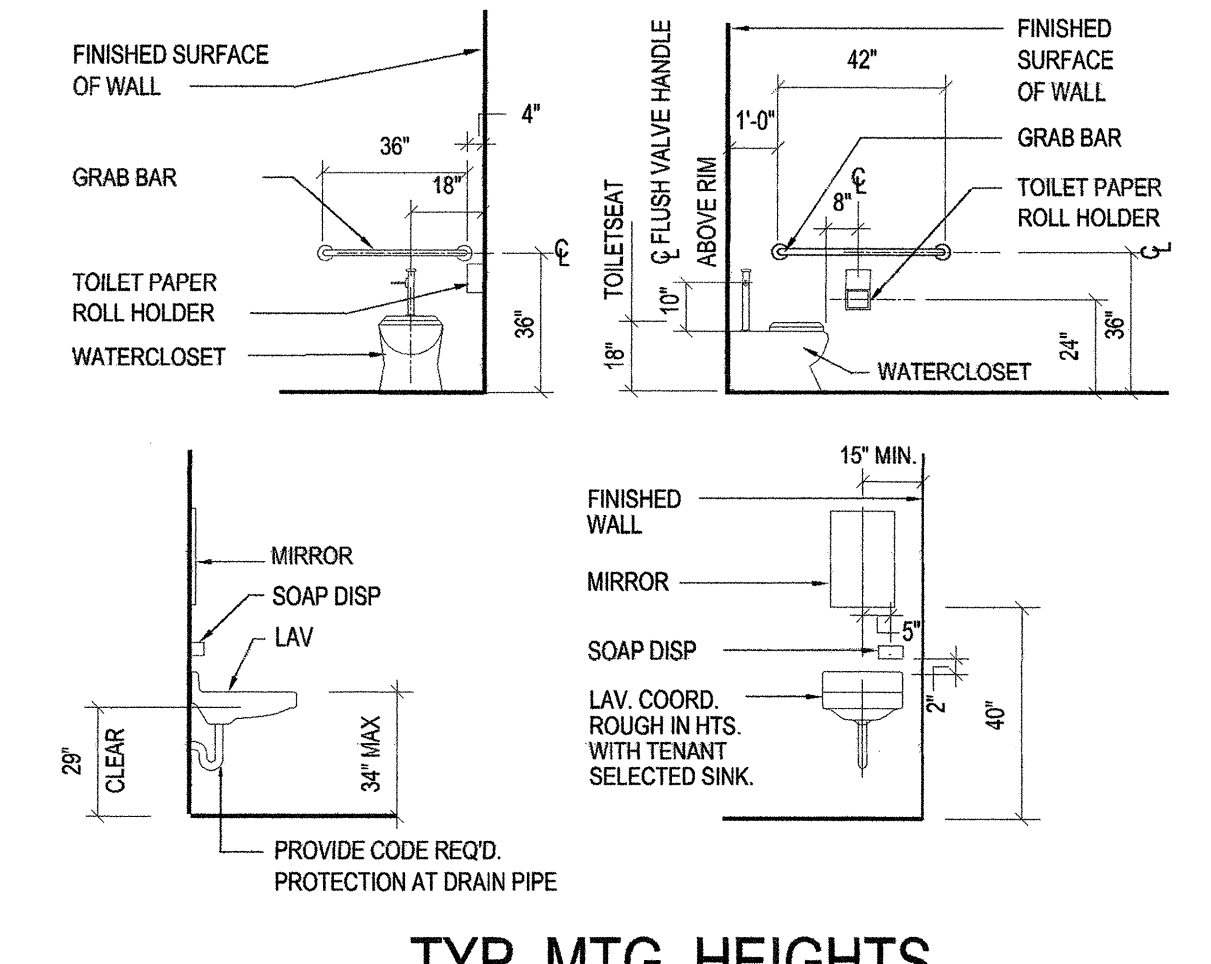
09 TYPICAL RTU DETAILS  
SCALE: 3/4"=1'-0"



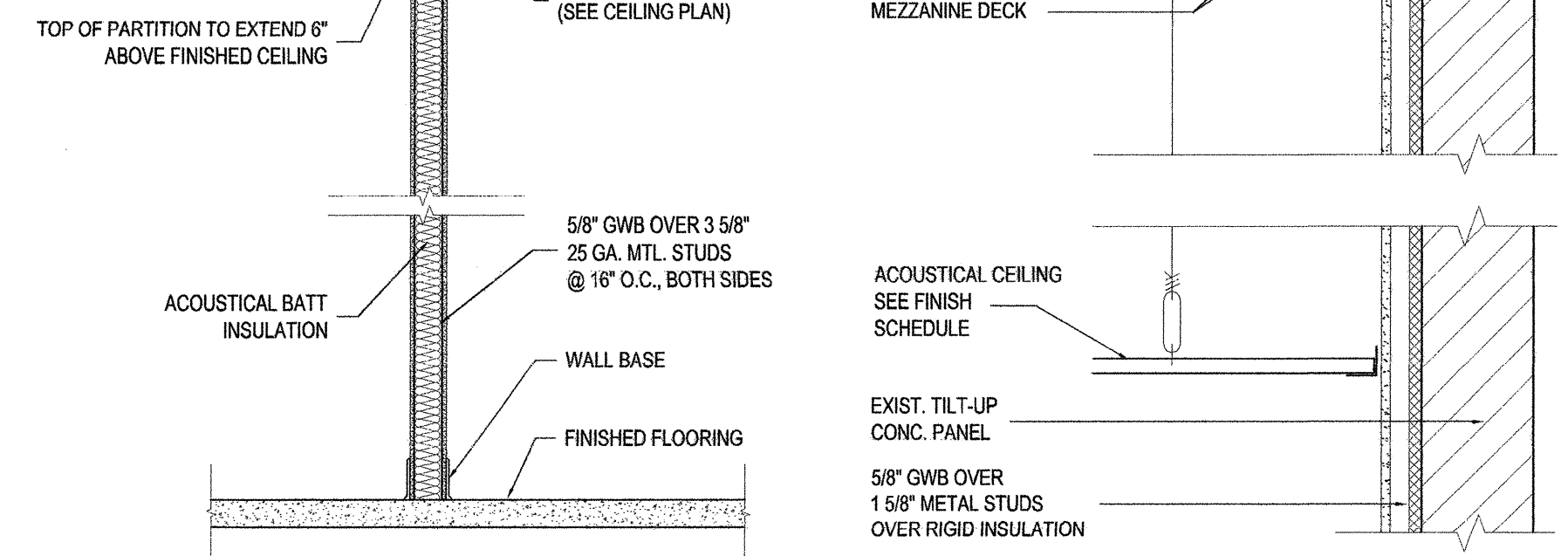
10 ROOF TOP UNIT DETAIL  
SCALE: 1/2"=1'-0"



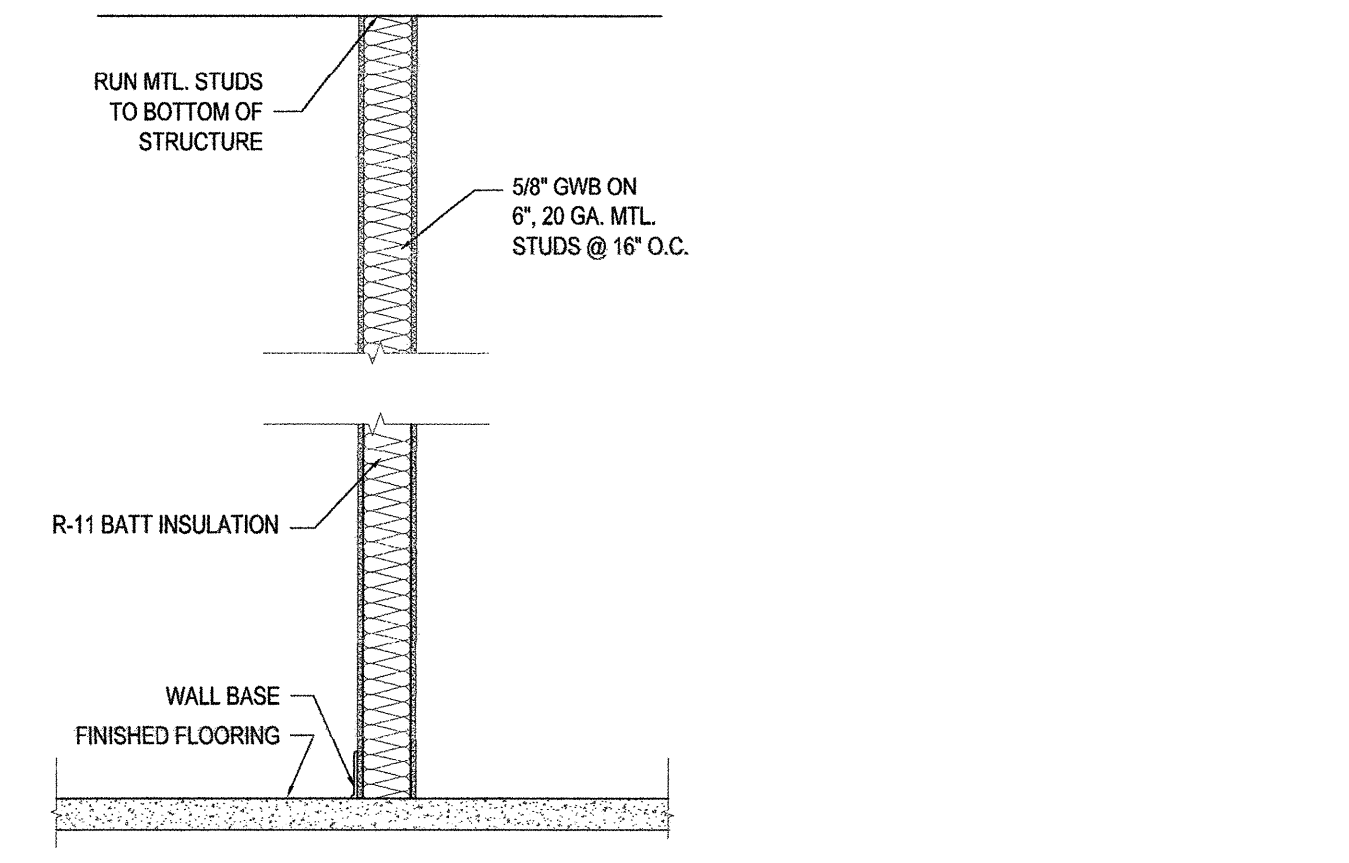
11 KITCHEN ELEVATION  
SCALE: 1/4"=1'-0"



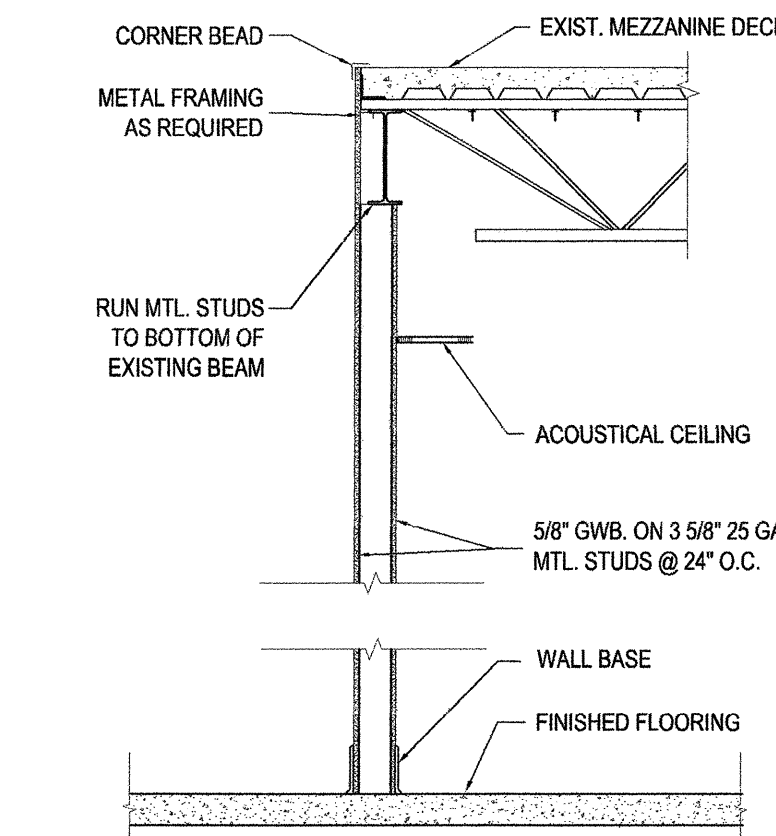
12 TYP. MTG. HEIGHTS  
SCALE: N.T.S.



13 WALL TYPE  
SCALE: 1/2"=1'-0"



14 WALL TYPE  
SCALE: 1/2"=1'-0"



15 WALL TYPE  
SCALE: 1/2"=1'-0"

WALL TYPE NOTES:  
-FOR ALL FIRE RATED WALLS PROVIDE STENCILING ABOVE CEILING STATING "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS".  
-REFER TO FLOOR PLAN FOR LOCATIONS OF RATED WALL ASSEMBLIES; CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NOTED RATINGS.  
-WALL BOARD AND SURFACE FINISH MATERIAL SHALL EXTEND A MINIMUM OF 6" ABOVE NEAREST ADJACENT CEILING, UNLESS NOTED OTHERWISE.  
-PROVIDE SOUND BATT INSULATION AT ALL RESTROOM PARTITIONS, TYPICAL.  
-PROVIDE 1/2" PLYWOOD BACKING AT ALL PARTITIONS TO RECEIVE WALL MOUNTED EQUIPMENT. VERIFY LOCATIONS WITH TENANT.  
-ALL PENETRATIONS OF RATED STEEL STUD PARTITION WALLS AND WALL EXTENSIONS, FLOOR AND ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH ONE OF THE FOLLOWING UL SYSTEMS:  
SYSTEM NO. C-AJ-2218 SYSTEM NO. W-L-1176  
SYSTEM NO. C-AJ-1014 SYSTEM NO. W-L-2154  
SYSTEM NO. W-L-1054 SYSTEM NO. W-L-2148  
ALTERNATE PENETRATION PROTECTION SYSTEMS MUST BE TEST CERTIFIED AND SUBMITTED FOR REVIEW.

Tenant Improvement for:  
**Building B, Bay 6**  
Southern Park of Commerce  
Palm Beach County, FL

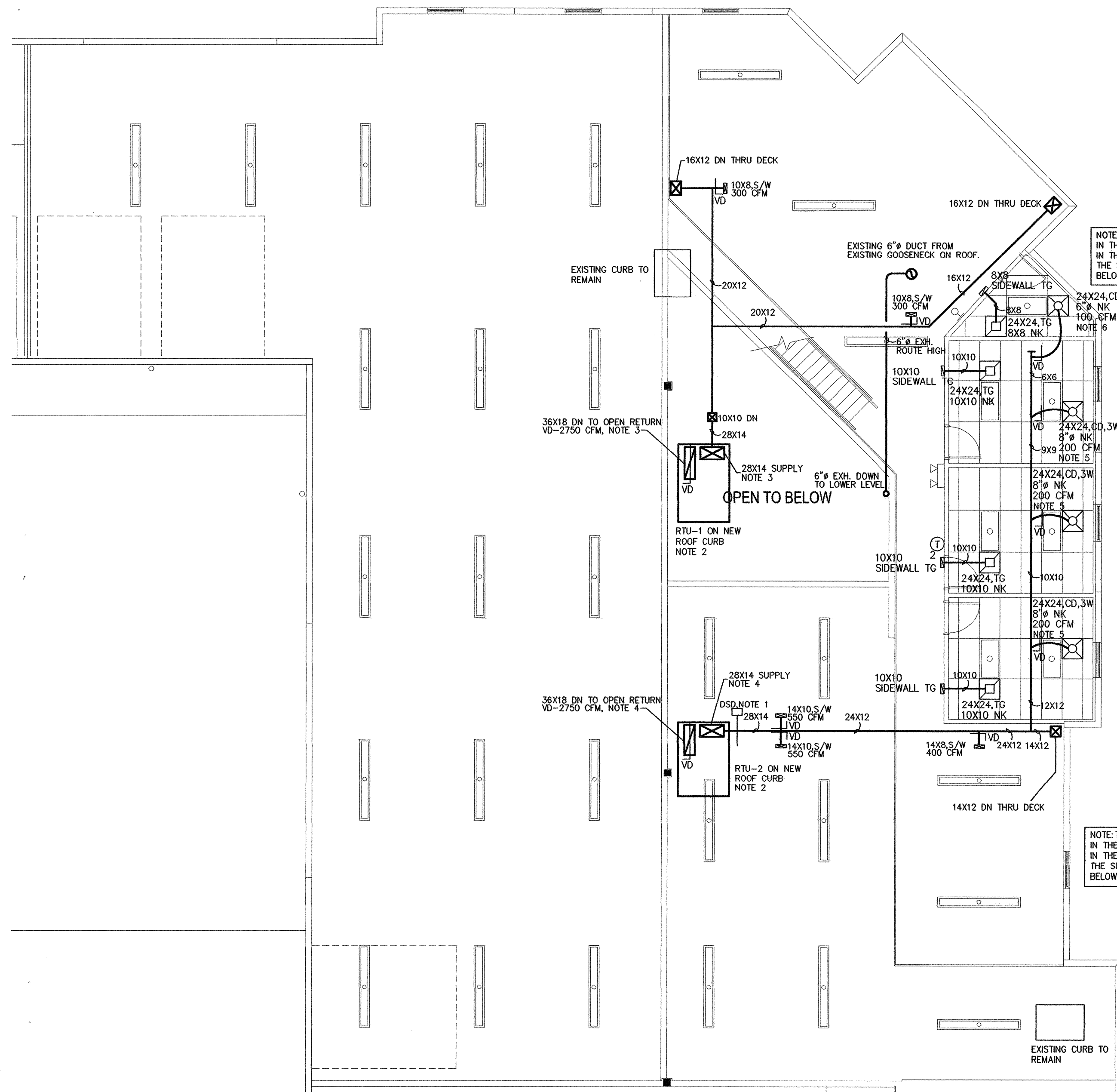
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revision	date
no.	▲
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drawing	A3.1
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**andrew morgan services**  
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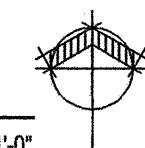
**tercilla** *Courtemanche* architects  
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west palm beach, florida 33411 ph: 561.478.4457 fx: 561.478.4102





UPPER HVAC PLAN

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

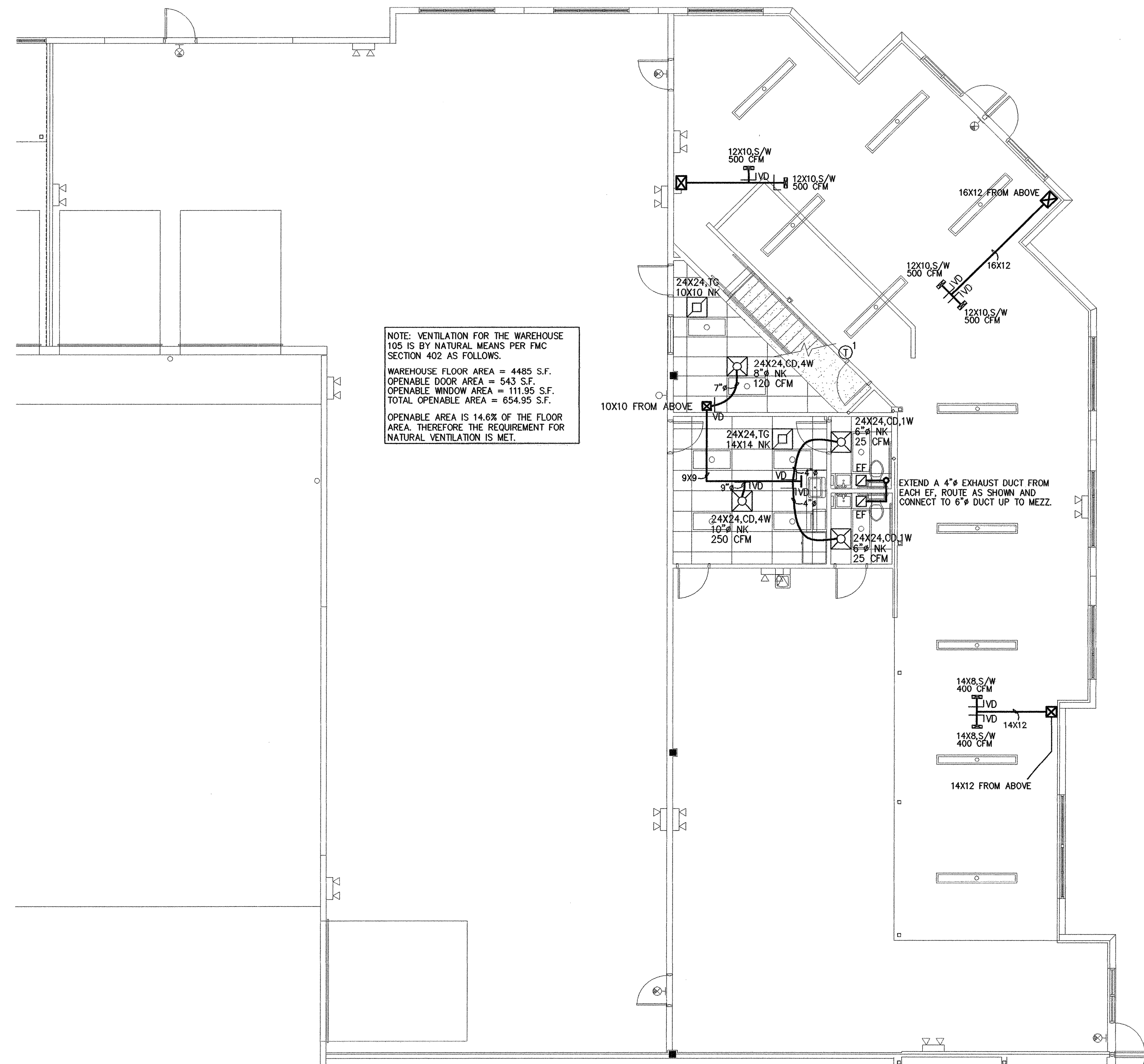


NOTE: THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST TO CUT THE HOLE IN THE MEZZANINE DECK REQUIRED TO ROUTE THE SUPPLY DUCTS DOWN TO THE AREA BELOW.

MECHANICAL NOTES:

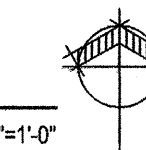
- 1) THE NOTED DUCT SMOKE DETECTOR SHALL SHUT DOWN THE SUPPLY FAN UPON ACTIVATION VIA A FAN SHUT-DOWN RELAY. THE DETECTOR SHALL OPERATE ON 120 VOLTS. THE DETECTOR SHALL BE SUPPLIED & WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR. THE SYSTEM SHALL INCORPORATE THE SUPERVISORY REQUIREMENT OF FMC 606.4.1, EXCEPTION 2. PROVIDE A TEST/RESET STATION ABOVE THE THERMOSTAT.
- 2) ADD A ROOF CAP SHEET UNDERNEATH EACH CONDENSATE PIPE SUPPORT.
- 3) EXTEND SUPPLY AND RETURN DUCTS OUT THE BOTTOM OF RTU AND THROUGH THE ROOF. FIELD VERIFY DUCT SIZES PRIOR TO BEGINNING WORK. THE 28X14 SUPPLY DUCT WILL HAVE A 10X10 DUCT THAT FEEDS DOWN TO THE OFFICE AND BREAK ROOM BELOW. EXTEND THE RETURN DUCT DOWN TO AN OPEN RETURN HIGH IN WAREHOUSE AND INSTALL A MANUAL VOLUME DAMPER IN THE DUCT.
- 4) EXTEND SUPPLY AND RETURN DUCTS OUT THE BOTTOM OF RTU AND THROUGH THE ROOF. FIELD VERIFY EXACT DUCT SIZES PRIOR TO BEGINNING WORK. EXTEND THE RETURN DUCT DOWN TO AN OPEN RETURN HIGH IN WAREHOUSE AND INSTALL A MANUAL VOLUME DAMPER IN THE DUCT.
- 5) EXTEND AN 8" FLEX DUCT DOWN INTO EACH OFFICE DROP CEILING AND CONNECT TO NEW 24X24 PERFORATED CEILING DIFFUSER. INSTALL A MANUAL VOLUME DAMPER IN EACH FLEX DUCT.
- 6) EXTEND A 6" FLEX DUCT DOWN INTO PHONE ROOM DROP CEILING AND CONNECT TO NEW 24X24 PERFORATED CEILING DIFFUSER. INSTALL A MANUAL VOLUME DAMPER IN THE FLEX DUCT.

NOTE: THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST TO CUT THE HOLE IN THE MEZZANINE DECK REQUIRED TO ROUTE THE SUPPLY DUCTS DOWN TO THE AREA BELOW.



LOWER HVAC PLAN

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



NOTE: VENTILATION FOR THE WAREHOUSE 105 IS BY NATURAL MEANS PER FMC SECTION 402 AS FOLLOWS:  
 WAREHOUSE FLOOR AREA = 4485 S.F.  
 OPENABLE DOOR AREA = 543 S.F.  
 OPENABLE WINDOW AREA = 111.95 S.F.  
 TOTAL OPENABLE AREA = 654.95 S.F.  
 OPENABLE AREA IS 14.6% OF THE FLOOR AREA. THEREFORE THE REQUIREMENT FOR NATURAL VENTILATION IS MET.

Tenant Improvement for:  
**Building B, Bay 6**  
 Southern Park of Commerce  
 Palm Beach County, FL

**tercilla courtemanche**  
 architects

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revision	date
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 ARNOLD I. CHANE, PE #10024  
 DAVID R. JONES, PE #41042  
 HOWARD L. CHANE, PE #22467

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**PLUMBING NOTES**

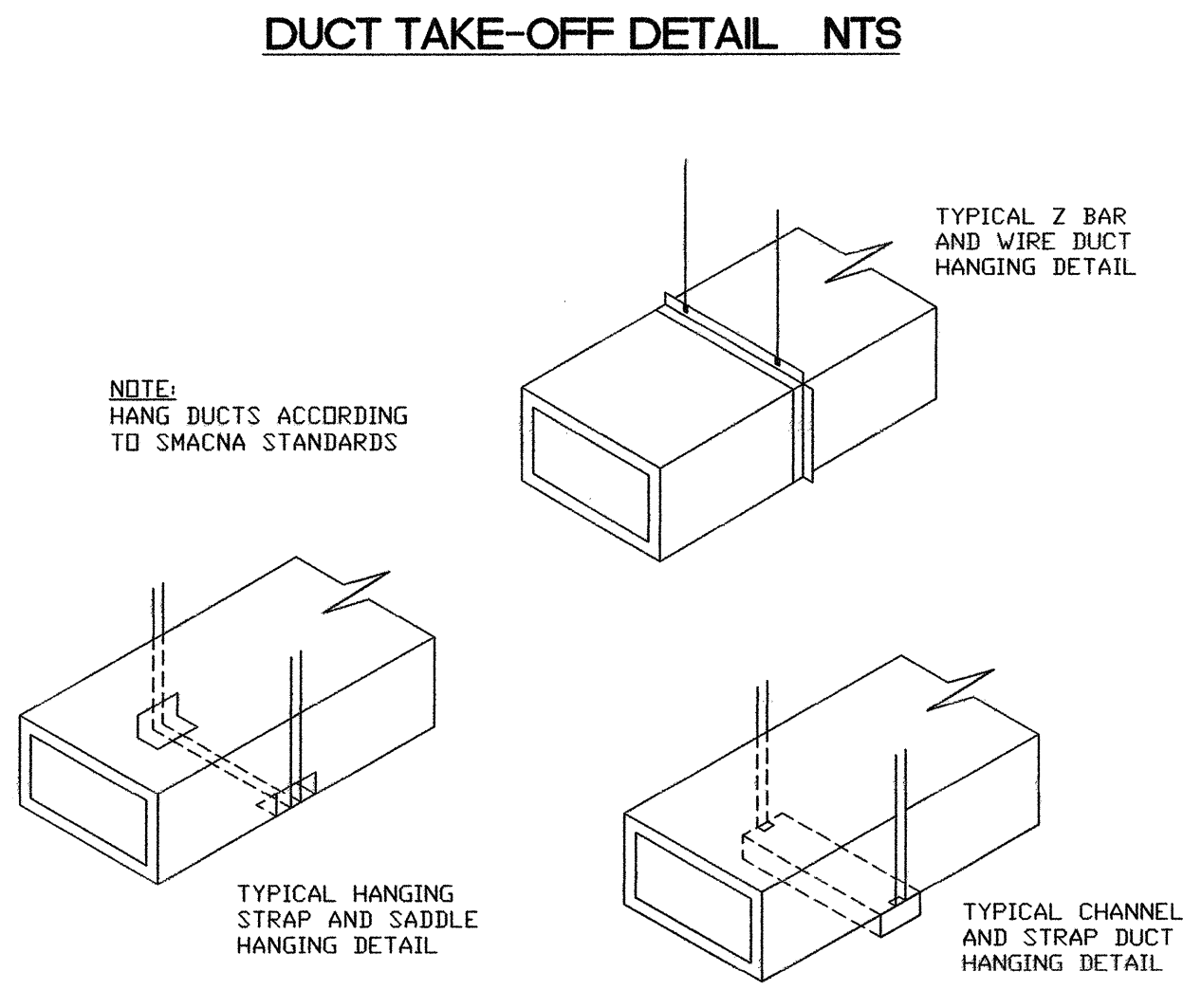
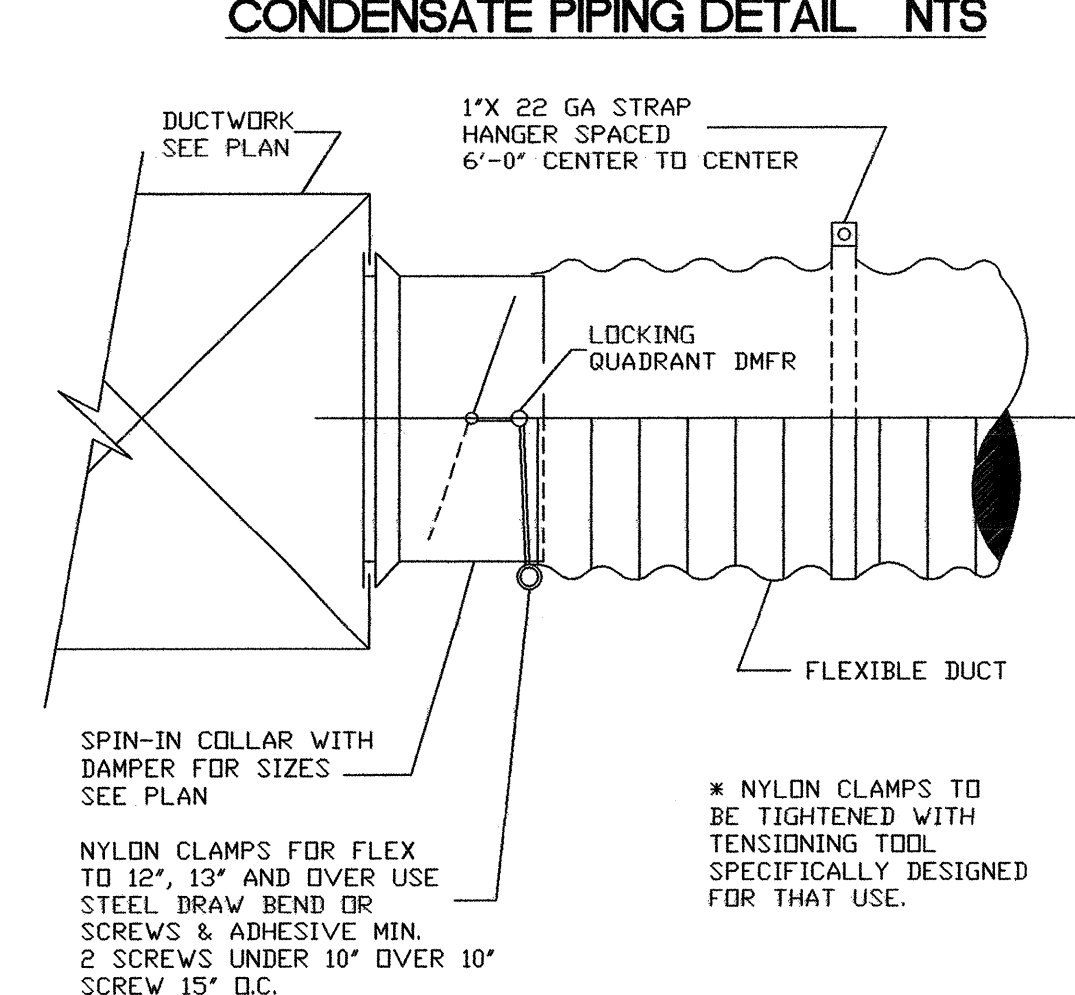
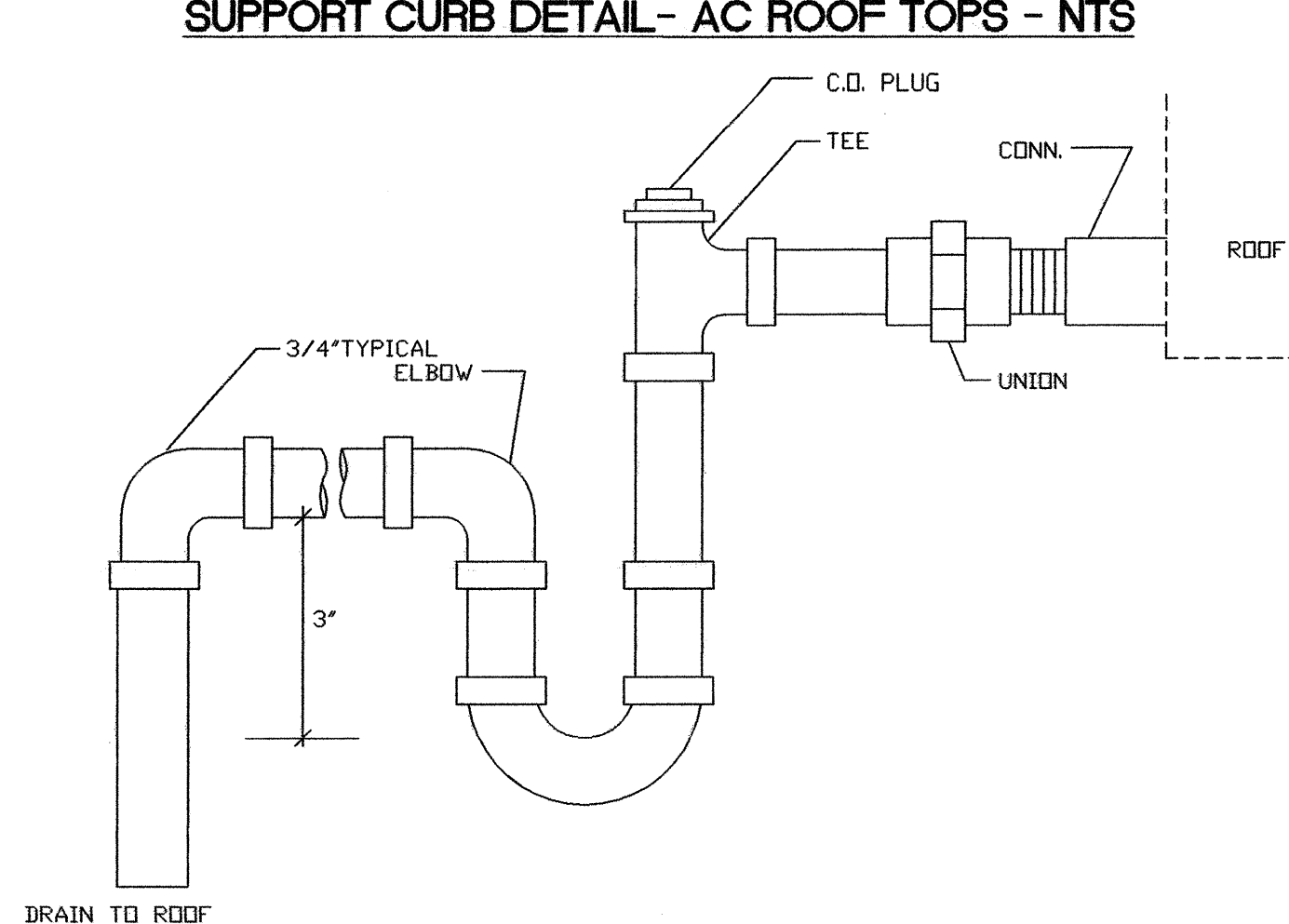
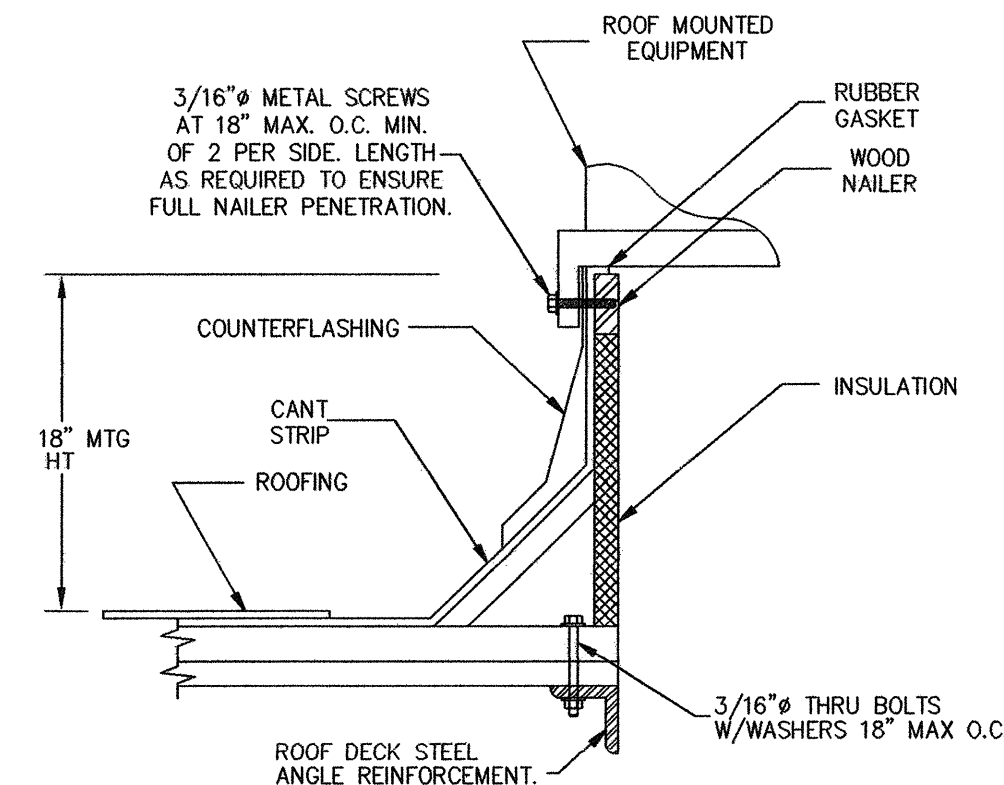
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
3. ALL MATERIALS SHALL BE NEW.
4. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
5. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
6. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING AND EQUIPMENT.
7. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
8. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
9. DOMESTIC WATER PIPE SHALL BE TYPE "L" COPPER WITH NO LEAD SOLDER.
10. SOIL, WASTE, VENT, & STORM PIPING SHALL BE CAST IRON OR SCH 40 PVC IF CODE PERMITS.
11. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
12. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
13. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES.
14. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
15. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
16. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL WALL CLEAN OUT.
17. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
18. ALL CONDENSATE DRAIN PIPING SHALL BE SCH 40 PVC WITH 1/2" THICK TYPE "G" CELLULAR FOAM INSULATION, K=0.28 MINIMUM.
19. TEST DOMESTIC WATER TO HYDROSTATIC PRESSURE OF 100 PSI AND REMAIN LEAK FREE FOR 24 HOURS. PROVIDE ALL NECESSARY TEST EQUIPMENT. PERFORM TEST IN PRESENCE OF OWNER'S REPRESENTATIVE. ENTER TEST RESULTS IN GENERAL CONTRACTOR JOB LOG. STERILIZE WATER PIPING WITH SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF CHLORINE AND ALLOW TO REMAIN IN SYSTEM FOR A PERIOD OF EIGHT (8) HOURS. FLUSH SYSTEM AFTER STERILIZATION. ALL COST FOR STERILIZATION AND EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR.
20. PROVIDE 1" (R=4.0 MIN.) INSULATION FOR ALL HOT WATER LINES.
21. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
22. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUTOFF.
23. THE DESIGN & INSTALLATION OF THE PLUMBING SYSTEM & ALL APPURTENANCES SHALL COMPLY STRICTLY WITH THE APPLICABLE PROVISIONS OF THE FLORIDA BUILDING PLUMBING CODE & THE LOCAL AMENDMENTS TO THE FLORIDA BUILDING PLUMBING CODE.

**GENERAL MECHANICAL NOTE**

1. VISIT THE SITE BEFORE SUBMITTING A BID. DETERMINE THE CHARACTERISTICS OF EXISTING FACILITIES WHICH WILL AFFECT PERFORMANCE OF THE WORK, BUT WHICH ARE NOT SHOWN ON THE DRAWINGS OR THE SPECIFICATIONS.
2. SHOP DRAWINGS OR FULLY DESCRIPTIVE CATALOG DATA SHALL BE SUBMITTED BY THE CONTRACTOR FOR ALL KINDS OF MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A SUFFICIENT NUMBER OF COPIES OF ALL SUCH SHOP DRAWINGS OR CATALOG DATA TO PROVIDE HIM WITH AS MANY REVIEWED COPIES AS HE MAY NEED, PLUS TWO (2) COPIES FOR RETENTION BY THE ARCHITECTS AND ENGINEERS.
3. ALL CUTTING, PATCHING, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING, AND WALL OPENINGS SHALL BE BY THE GENERAL CONTRACTOR.
4. ALL OPENINGS IN BUILDING STRUCTURE, FOR DUCTWORK, PIPING, ETC. TO BE 1/2" LARGER (ON ALL SIDES) THAN THE OUTSIDE DIMENSIONS. FILL VOIDS WITH FIRE RETARDANT SILICONE FOAM (I.E. CHASE-FOAM CTC PR-855 BY CHASE TECHNOLOGY CORP.).
5. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.

**GENERAL HVAC NOTES**

1. VISIT THE SITE PRIOR TO SUBMITTING A BID. DETERMINE THE CHARACTERISTICS OF EXISTING FACILITIES WHICH WILL AFFECT PERFORMANCE OF THE WORK, BUT WHICH ARE NOT SHOWN ON THE DRAWINGS.
2. PROVIDE ALL LABOR PERMITS, MATERIAL, TOOLS, SUPPLIES, EQUIPMENT TO INSTALL A COMPLETE AND OPERATING AIR CONDITIONING SYSTEM. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.
3. PAY ALL COSTS OF PERMIT INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
4. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
5. ALL CONDITIONED AIR DUCTWORK SHALL BE FIBREGLASS, R=6.0 MIN. EXHAUST & OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED STEEL. ALL BENDS GREATER THAN 45 DEGREES SHALL HAVE TURNING VANES. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND ADJUST FOR FIELD CONDITIONS PRIOR TO CONSTRUCTING ANY DUCTWORK. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. INSTALL ALL DUCTWORK PER APPROPRIATE SMACNA STANDARD.
6. THE CONTRACTOR SHALL FURNISH A WRITTEN WARRANTY THAT SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECT. ANY BREAK-DOWN OCCURRING IN THE FIRST YEAR SHALL BE REPAIRED AT NO COST TO THE OWNER. A/C COMPRESSORS SHALL HAVE A 5 YEAR GUARANTEE.
7. PROVIDE & INSTALL ALL CONTACTORS, RELAYS, AND CONTROLS.
8. HVAC CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT FOR ALL MECHANICAL SYSTEMS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS AND THE LEAVING AND ENTERING AIR TEMPERATURE (F) FROM AT EACH EVAPORATOR COIL. INCLUDE ALL VOLTAGE AND AMPERAGE FOR EACH MOTOR. THE REPORT SHALL BE DONE BY AN INDEPENDENT T&B CONTRACTOR LICENSED BY THE STATE OF FLORIDA AND SUBMITTED TO THE ARCHITECT.
9. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE TITUS OR METALAIR.
10. ALL BRANCH TAKE OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEES MUST BE FURNISHED W/ TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE OFFS.
11. PROVIDE NEW FILTERS FOR ALL RTU'S BEFORE STARTING THEM. REPLACE FILTERS PRIOR TO FINAL ACCEPTANCE BY OWNER.
12. FIRE DAMPERS SHALL BE STYLE B WITH THE BLADES OUT OF THE AIRSTREAM. DAMPERS FOR RECTANGULAR DUCTS SHALL BE EQUAL TO RUSKIN #0-IB02 WITH 1 1/2 HOUR RATING & DAMPERS FOR ROUND DUCT SHALL BE EQUAL TO RUSKIN #0-IB02-CR WITH 1 1/2 HOUR RATING.
13. ALL PENETRATIONS OF FIRE RESISTIVE ASSEMBLIES INCLUDING FLOOR ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED THROUGH STOP ASSEMBLY AND INSPECTED FOR COMPLIANCE PRIOR TO CLOSE IN. THE CONTRACTOR MUST VISIT THE SITE & REVIEW THE ARCHITECTURAL PLANS PRIOR TO BID TO LOCATE ALL NEW FIRE WALLS & ANY EXISTING MECHANICAL DUCTWORK, PIPING, ETC. THAT WILL REQUIRE NEW FIRE DAMPERS OR THROUGH STOPS. ALL COSTS SHALL BE INCLUDED IN THE BID.
14. THE DESIGN & INSTALLATION OF THE MECHANICAL SYSTEMS & ALL APPURTENANCES SHALL COMPLY STRICTLY WITH THE APPLICABLE PROVISIONS OF THE FLORIDA BUILDING MECHANICAL CODE & THE LOCAL AMENDMENTS TO THE FLORIDA BUILDING MECHANICAL CODE.
15. PROVIDE A 10 FOOT MINIMUM CLEARANCE FROM ALL VENTS THROUGH ROOF (VTR) AND EXHAUST FANS TO OUTSIDE AIR INTAKES.
16. ALL STORAGE ROOMS, TOILETS, ETC. WILL HAVE UNDERCUT DOORS TO PROVIDE VENTILATION REQUIRED WHEN DOOR OR TRANSFER GRILLES ARE NOT SHOWN.
17. A/C CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS WORK FOR SIZE, LOCATION, CLEARANCE, ACCESS AND ELECTRICAL CHARACTERISTICS WITH ALL OTHER TRADES AND TO PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR REVIEW BEFORE INSTALLATION OF DUCTWORK OR EQUIPMENT. SHOP DRAWINGS WILL INCLUDE BEAM OR STRUCTURE ELEVATION & REQUIRED EQUIPMENT ACCESS AREAS.
18. COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH LIGHTS AND ARCHITECTURAL ELEMENTS.
19. COORDINATE LOCATION OF AHU'S, THERMOSTATS, FANS AND DUCTWORK WITH BUILDING STRUCTURE AND OTHER TRADES SO THAT NO INTERFERENCES OCCUR.
20. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL AND STRUCTURAL PLANS. DUCT BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
21. FAN DRIVES SHALL BE ADJUSTED TO DELIVER THE SPECIFIED CFM AGAINST THE ACTUAL STATIC PRESSURE OF THE INSTALLATION.
22. ALL OUTSIDE EQUIPMENT SHALL BE SECURED TO WITHSTAND 140 M.P.H. WINDS.
23. ALL UNITS SHALL BE PROVIDED W/ HONEYWELL ELECTRONIC PROGRAMMABLE THERMOSTATS.



**ROOFTOP AIR CONDITIONING SCHEDULE**

MODEL NUMBERS BASED ON CARRIER.

SYSTEM	SYSTEM 1, 2
	7, 5 TON
MODEL	50TC12A08
CFM	3000
ID FAN HP/FLA	2.9/7.9
HEAT KW #208V/240V	12.0/16.0
ID FAN FLA	11.5
COMP FLA	25.0
OUTSIDE AIR (NOTE 3)	250
VOLTS-PH	208/3
FUSE	60
REFRIGERANT	R-410
TOTAL BTUH (NET)	88000
TOT. SENS. (NET)	63800
SEER	11.2
IPLV	N.A.
WEIGHT(LBS)(NET/SHIPPING)	730/780
DIMENSIONS (HxLxW)	41"X88"X60"

- NOTES:
1. ACCEPTABLE ALTERNATE MANUFACTURER SHALL BE TRANE. PRIOR TO ORDERING ANY EQUIPMENT THE CONTRACTOR SHALL VERIFY THAT THE HEIGHT OF THE UNIT PLUS THE CURB IS EQUAL TO OR LOWER THAN THE PARAPET WALL.
  2. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL VERIFY WHETHER THERE IS AN EXISTING ROOF CURB. IF NO CURB EXISTS, PROVIDE THE APPROPRIATE MANUFACTURER ROOF CURB TO MATCH THE SCHEDULED UNIT. IF THERE IS AN EXISTING CURB, VERIFY THAT THE EXISTING CURB WILL FIT TO THE NEW ROOFTOP UNIT. UTILIZE AN APPROPRIATE MANUFACTURER ROOF CURB ADAPTOR IF NECESSARY. INCLUDE ALL COSTS IN BID.
  3. SEE OUTDOOR AIR CALCULATIONS.
  4. PROVIDE SINGLE-POINT POWER KIT FOR ALL UNITS.

**FAN SCHEDULE**

MARK	EF
MANUFACTURER	GREENHECK
MODEL	SP-B70
TYPE	CEILING
SERVICE	TOILET
CFM/S.F.	57/0.25
H.P.	FRACTIONAL
RPM	675
VOLTAGE/PH.	120/1

- NOTES:
1. FOR MARK "EF", ACCEPTABLE ALTERNATE MANUFACTURERS SHALL BE PENN, CARNES.

**AIR DISTRIBUTION SCHEDULE-BASED ON TITUS**

MODEL	MATERIAL	DEVICE	REMARKS
PAS-AA	ALUMINUM	24X24 PERFORATED SUPPLY GRILLE	----- NOTE 2
PAR-AA	ALUMINUM	24X24 PERFORATED RETURN GRILLE	W/OBD NOTE 2
300-PS-AA	ALUMINUM	DOUBLE DEFLECTION, ADJUSTABLE BLADE SIDEWALL DIFFUSER	W/OBD NOTE 1
4FL-AA	ALUMINUM	FIXED BLADE SIDEWALL RETURN GRILLE	W/OBD NOTE 1

- NOTES:
1. USE BORDER TYPE 1 FOR SURFACE MOUNT.
  2. USE BORDER TYPE 3 FOR LAY-IN CEILING.

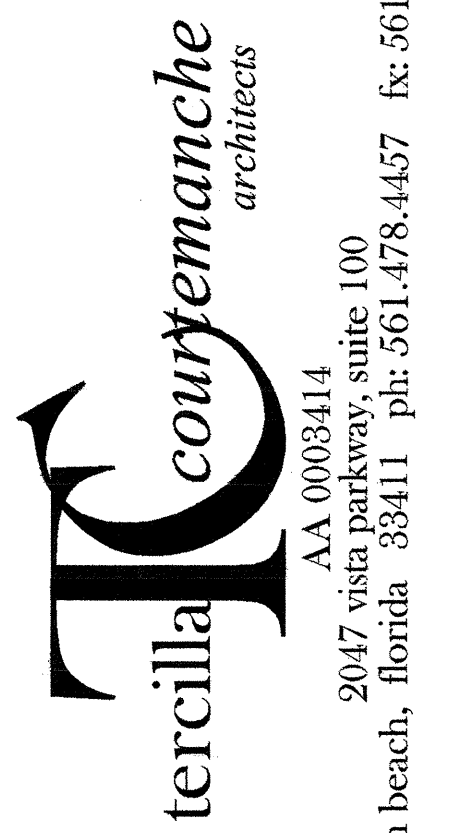
**OUTSIDE AIR CALCULATION**

(PER ASHRAE CODE 62.1, TABLE 6-1)

BREAK ROOM	(25 PPL / 1000 SF) X 233 SF X 10 CFM/PPL = 58.25 CFM
OFFICES	(4 PPL X 5 CFM/PPL) X (0.06 CFM/SF X 734.75 SF) = 64.085 CFM
COND. MEZZANINE DECK	(0.06 CFM/SF X 1580 SF) = 94.8 CFM
COND. STORAGE UNDER DECK	(0.06 CFM/SF X 2224 SF) = 133.44 CFM
COND. STORAGE	(0.06 CFM/SF X 1347 SF) = 80.82 CFM
TOTAL:	431.395 CFM
SUPPLIED:	500 CFM --> 250 CFM/RTU

**MECHANICAL LEGEND**

- 24X24 PERFORATED CEILING DIFFUSER.
- 24X24 PERFORATED RETURN/TRANSFER GRILLE.
- SIDEWALL SUPPLY AIR REGISTER (SAR).
- SIDEWALL RETURN GRILLE (SAG).
- EXHAUST FAN
- CURVED BLADE CEILING DIFFUSER (CBCD)
- RIGID DUCTWORK
- FLEXIBLE DUCTWORK.
- MANUAL VOLUME DAMPER
- WALL MOUNTED THERMOSTAT.
- DUCT MOUNTED SMOKE DETECTOR.



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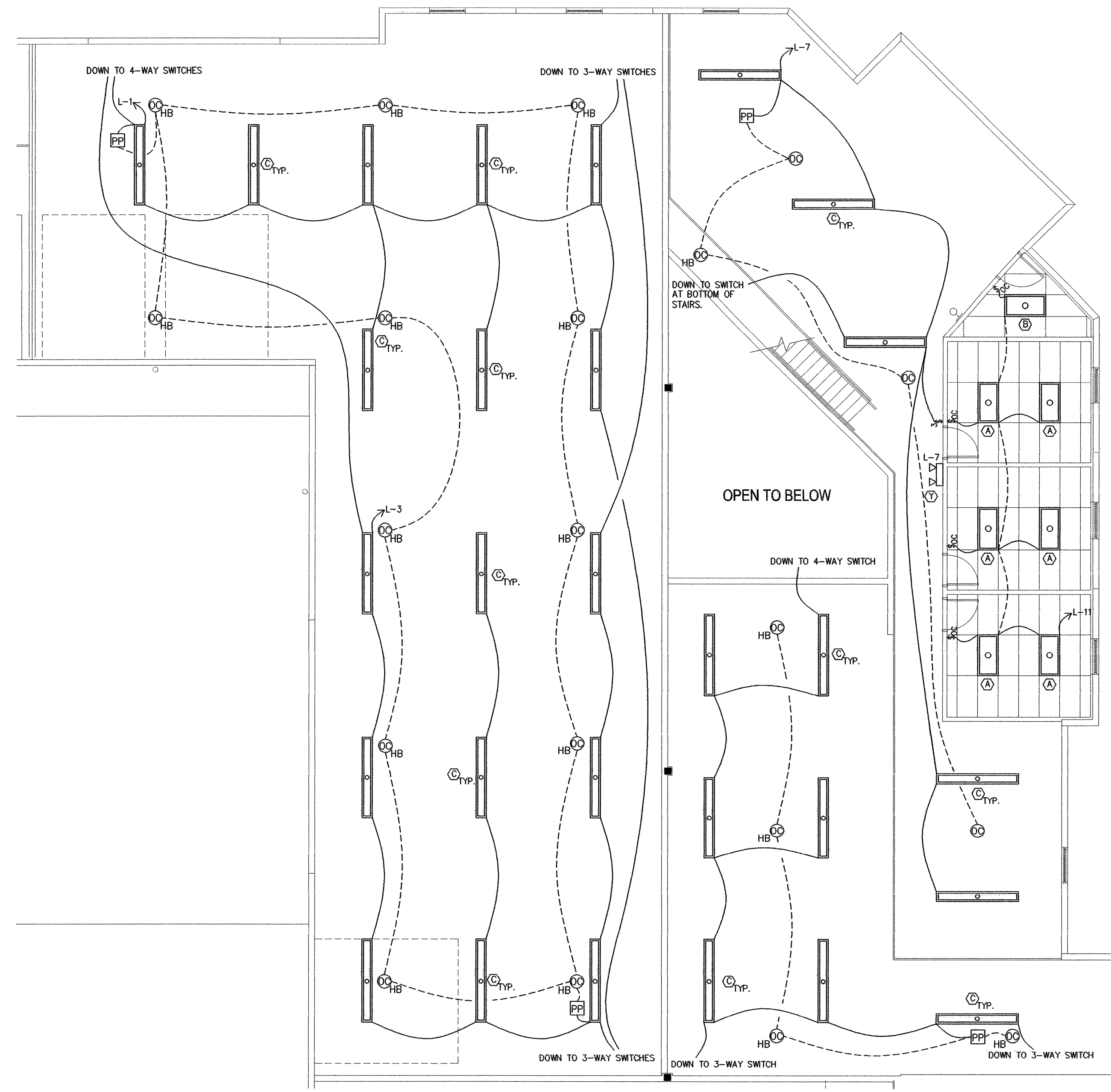
Tenant Improvement for:  
**Building B, Bay 6**  
Southern Park of Commerce  
Palm Beach County, FL

commission	29012
date:	6-3-09
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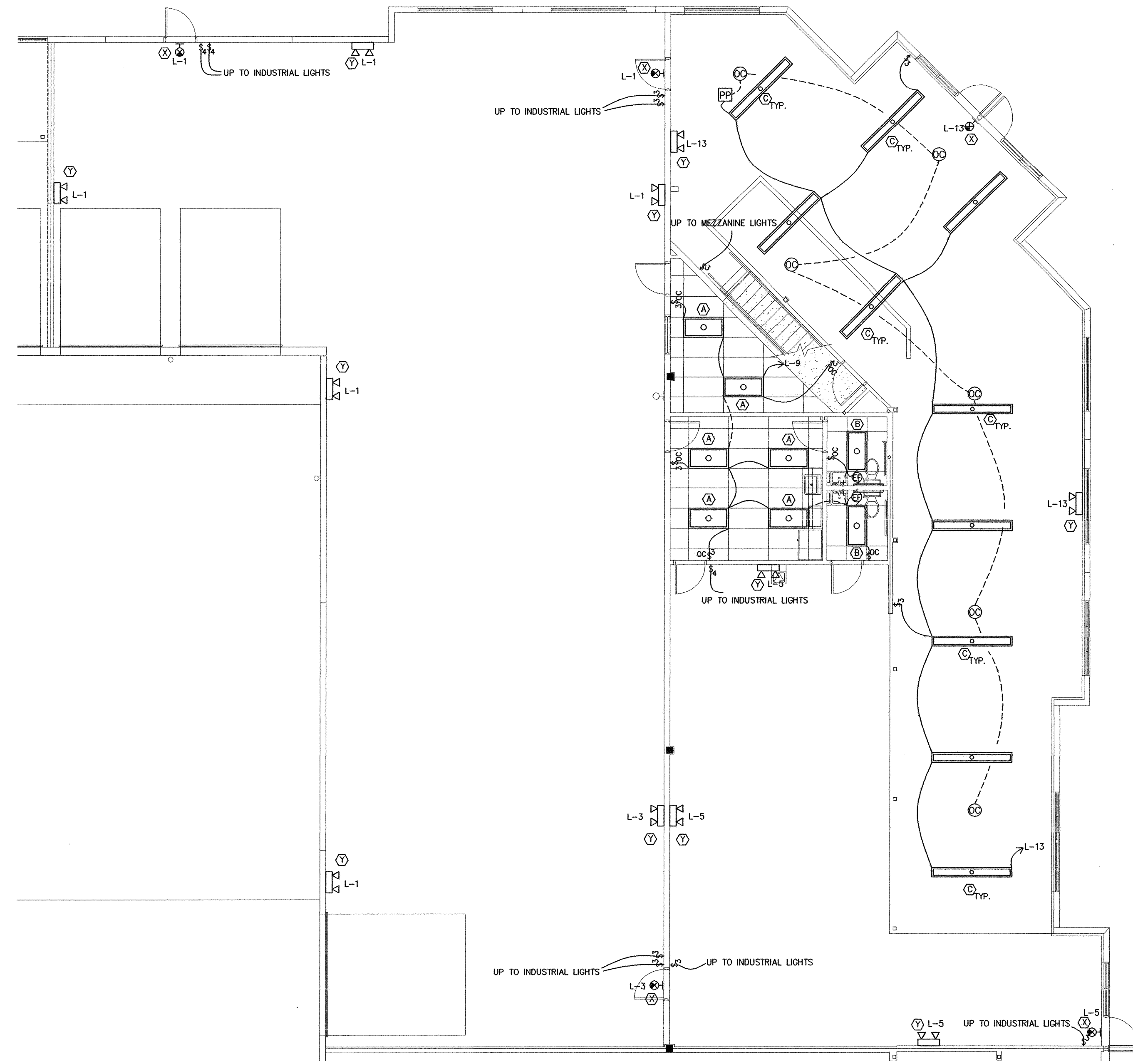
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UPPER LIGHTING PLAN

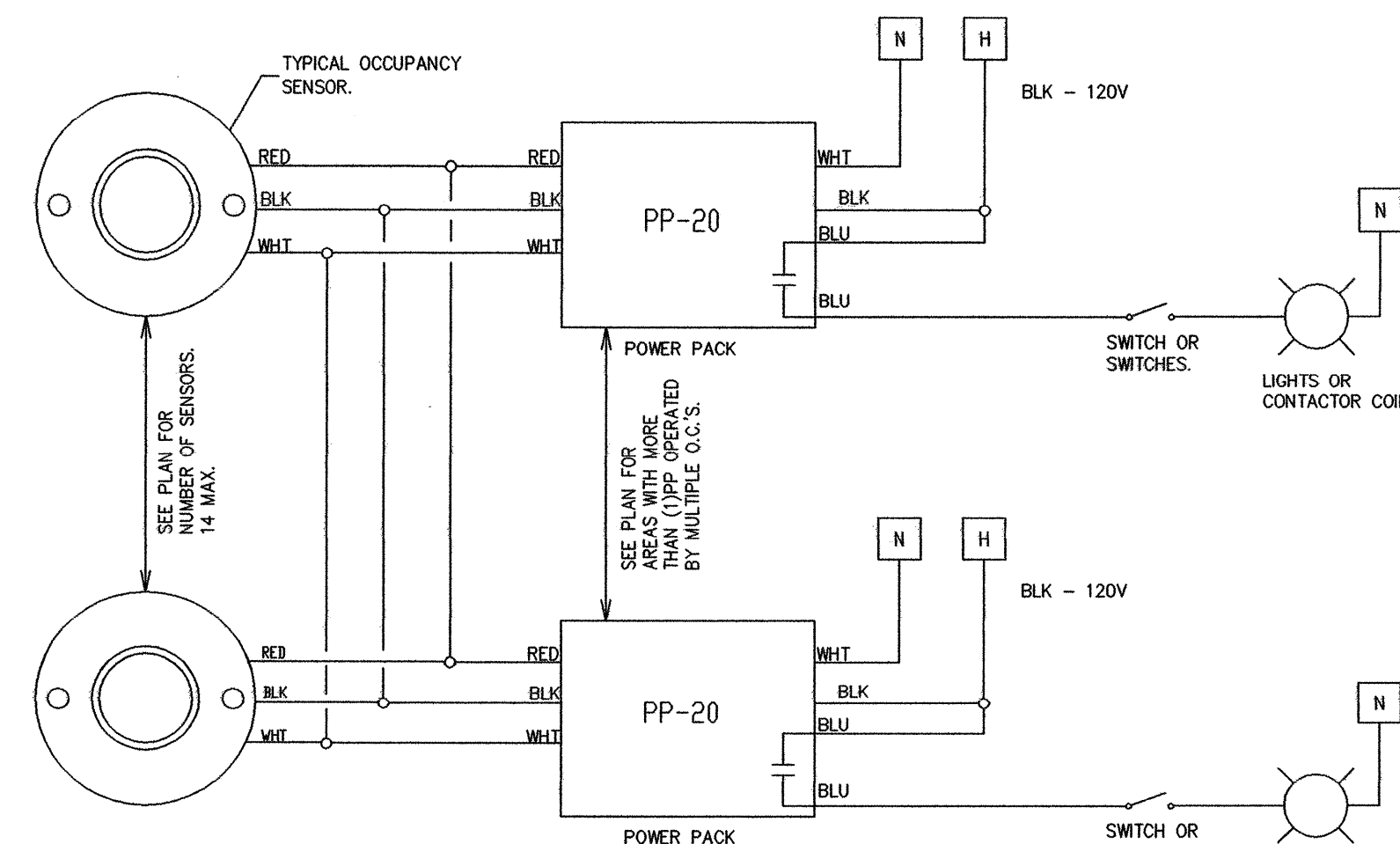
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LOWER LIGHTING PLAN

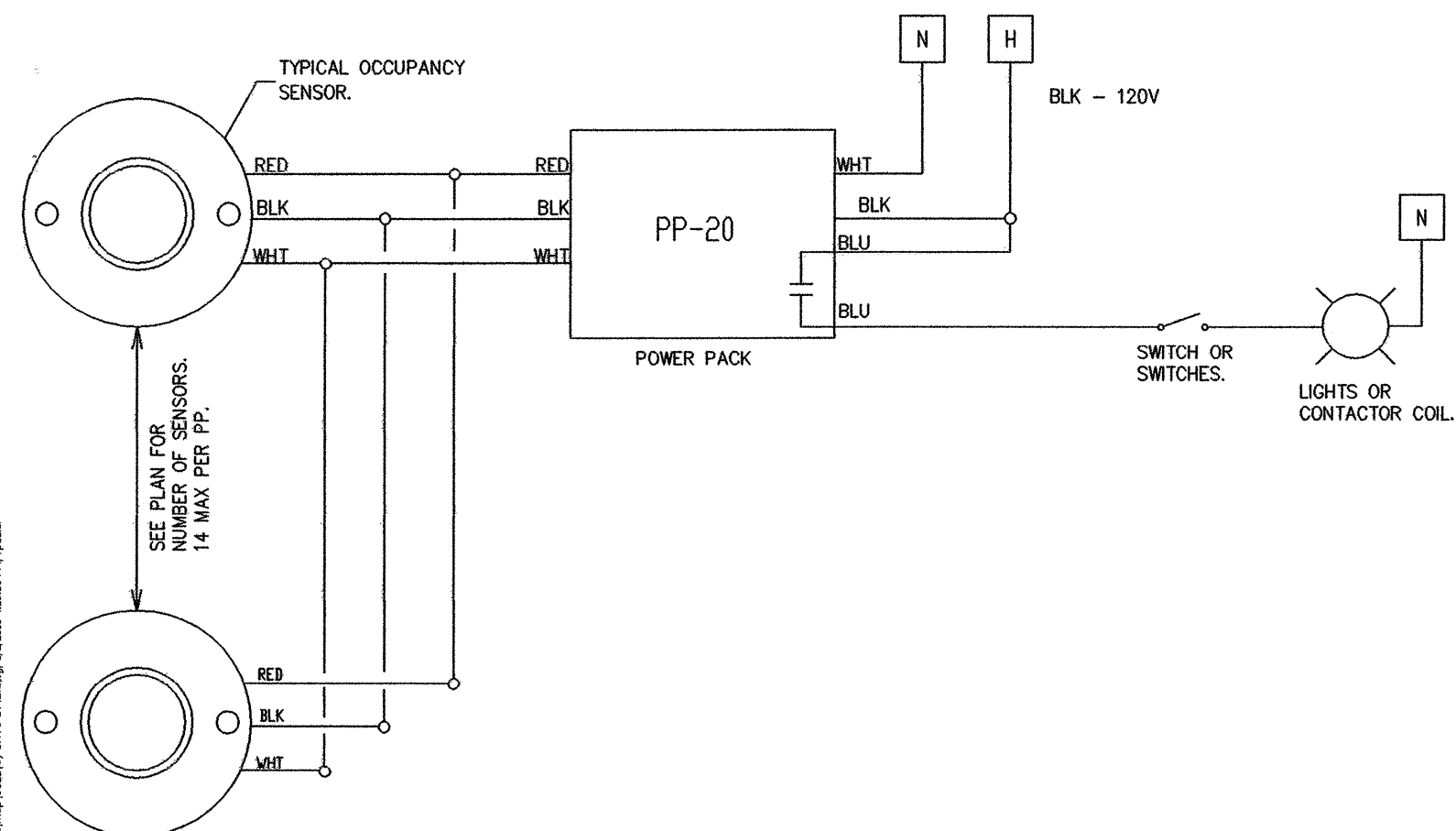
SCALE: 1/8"=1'-0"

MULTIPLE POWER PACKS WITH MULTIPLE OCCUPANCY SENSORS



LOW VOLTAGE SENSOR(S) WIRING DIAGRAM NTS

SINGLE POWER PACK WITH OCCUPANCY SENSORS



LOW VOLTAGE SENSOR(S) WIRING DIAGRAM NTS

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	REMARKS
A	DAYBRITE	2T68332-01-120-1/3-EB	(3)F32 T8	2X4 RECESSED TROFFER, PRISMATIC ACRYLIC LENS, GRID CEILING MOUNT.
B	DAYBRITE	2T68232-01-120-1/2-EB	(2)F32 T8	2X4 RECESSED TROFFER, PRISMATIC ACRYLIC LENS, GRID CEILING MOUNT.
C	DAYBRITE	1FD232-PP-120-1/4-EB	(4)F32 T8	8 FT INDUSTRIAL FLUORESCENT.
D	NOT USED			
X	CHLORIDE	E-R-B-1-120/6	INCLUDED	LED SINGLE FACE EXIT WITH BATTERY.
Y	CHLORIDE	GM1	INCLUDED	WALL MOUNTED EMERGENCY LIGHT WITH BATTERY.

LIGHTING POWER CALCULATION

SPACE	AREA (SQFT)	LPD (W/SQFT)	ALLOWABLE (W)	DESIGN (W)
UNCOND. WAREHOUSE	4485	0.9	4036.5	2176
OFFICES	776	1.1	853.6	768
COND. STORAGE	4078	0.9	3670.2	2176
TOILETS	98	0.9	88.2	128
BREAK ROOM	233	0.9	209.7	384
PHONE ROOM	76	1.5	114	64
MEZZANINE	1504	0.9	1353.6	640
TOTAL	11250		10325.8	6336

THE DESIGN WATTAGE OF 6336 W IS LESS THAN THE ALLOWABLE WATTAGE OF 10325.8 W.  
LIGHTING POWER CALCULATION AS PER FBC 13-415.B.1 (SPACE BY SPACE METHOD)

OCCUPANCY SENSOR DEVICE SCHEDULE

no.	MANUFACTURED BY SENSOR SWITCH.
△	WALL SWITCH W/OCCUPANCY SENSOR & BUILT IN POWER PACK SENSOR SWITCH #WSD-PDT-WHITE
⊙ <sub>HB</sub>	HIGH BAY OCCUPANCY SENSOR TO CONTROL THE POWER PACK. SENSOR SWITCH #CM-6-PDT (WHITE).
⊙ <sub>PP</sub>	20 AMP POWER PACK THAT IS CONTROLLED BY THE OCCUPANCY SENSOR(S). LOCATE ABOVE ACCESSIBLE CEILING. WIRE AHEAD OF ANY LOCAL SWITCHING. 14 SENSORS MAX. PER PP. SENSOR SWITCH #PP-20.
⊙ <sub>OC</sub>	LOW CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL THE POWER PACK. SENSOR SWITCH #CM-9-PDT(WHITE).

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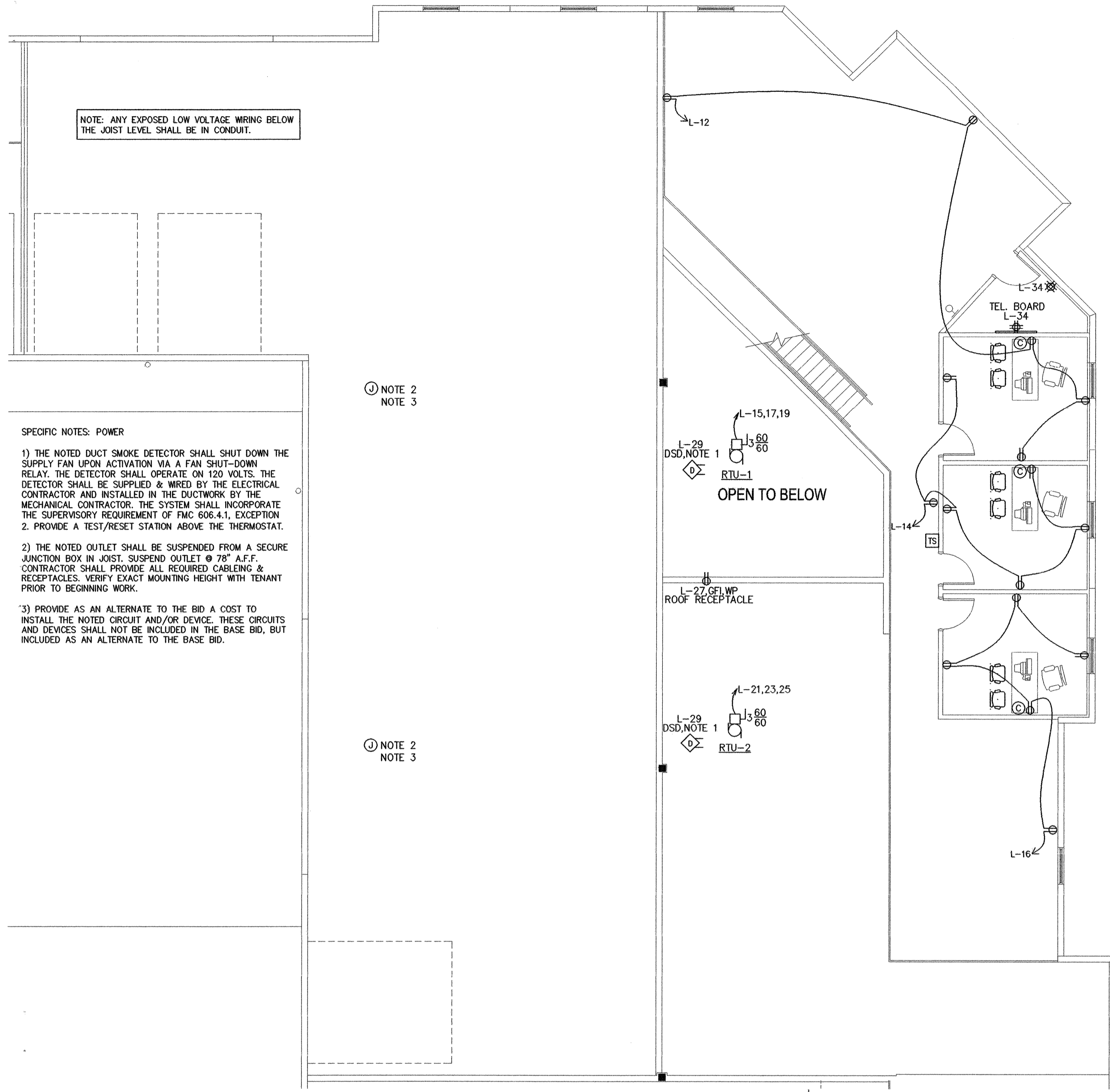
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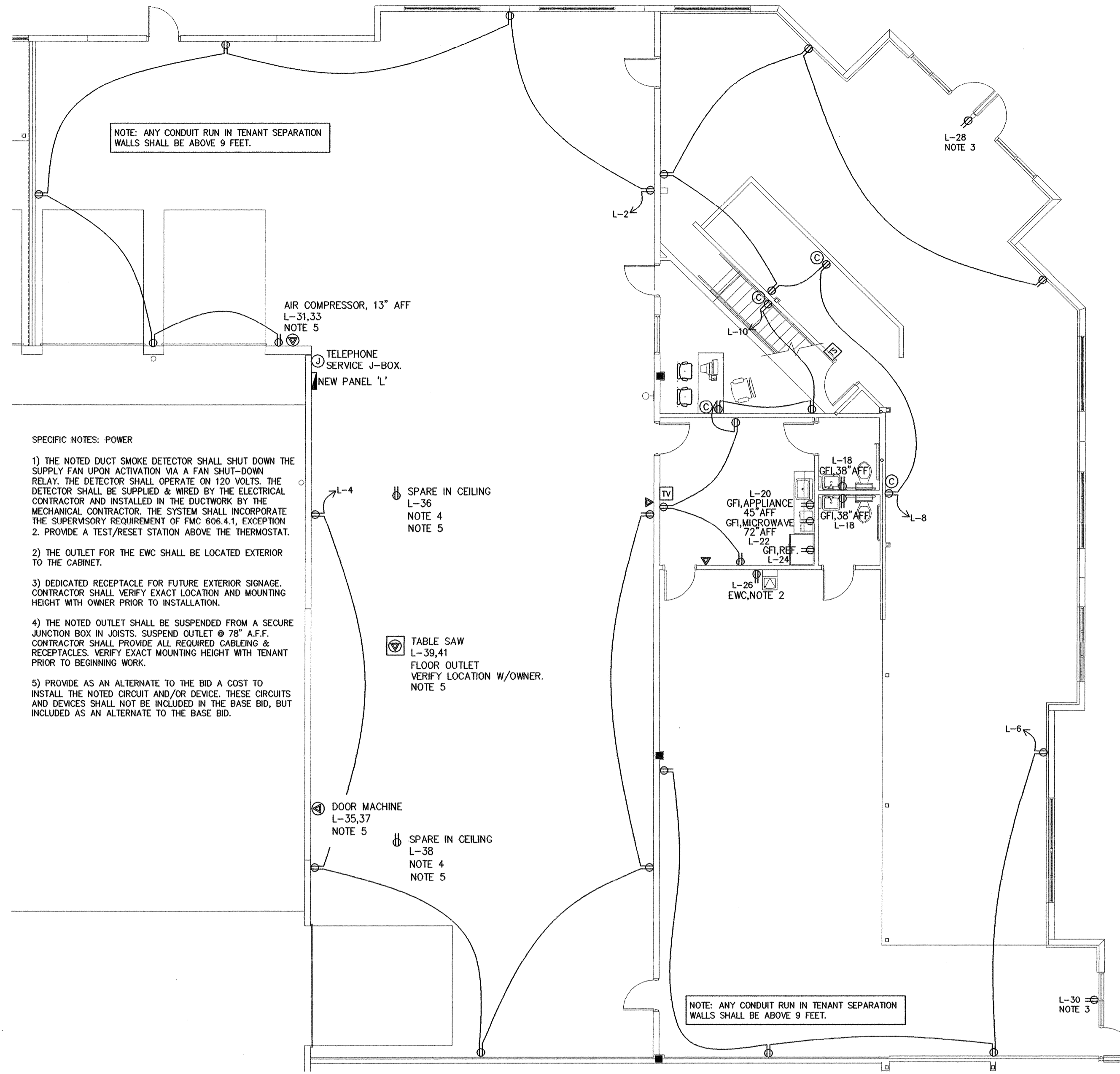
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UPPER POWER PLAN

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



LOWER POWER PLAN

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

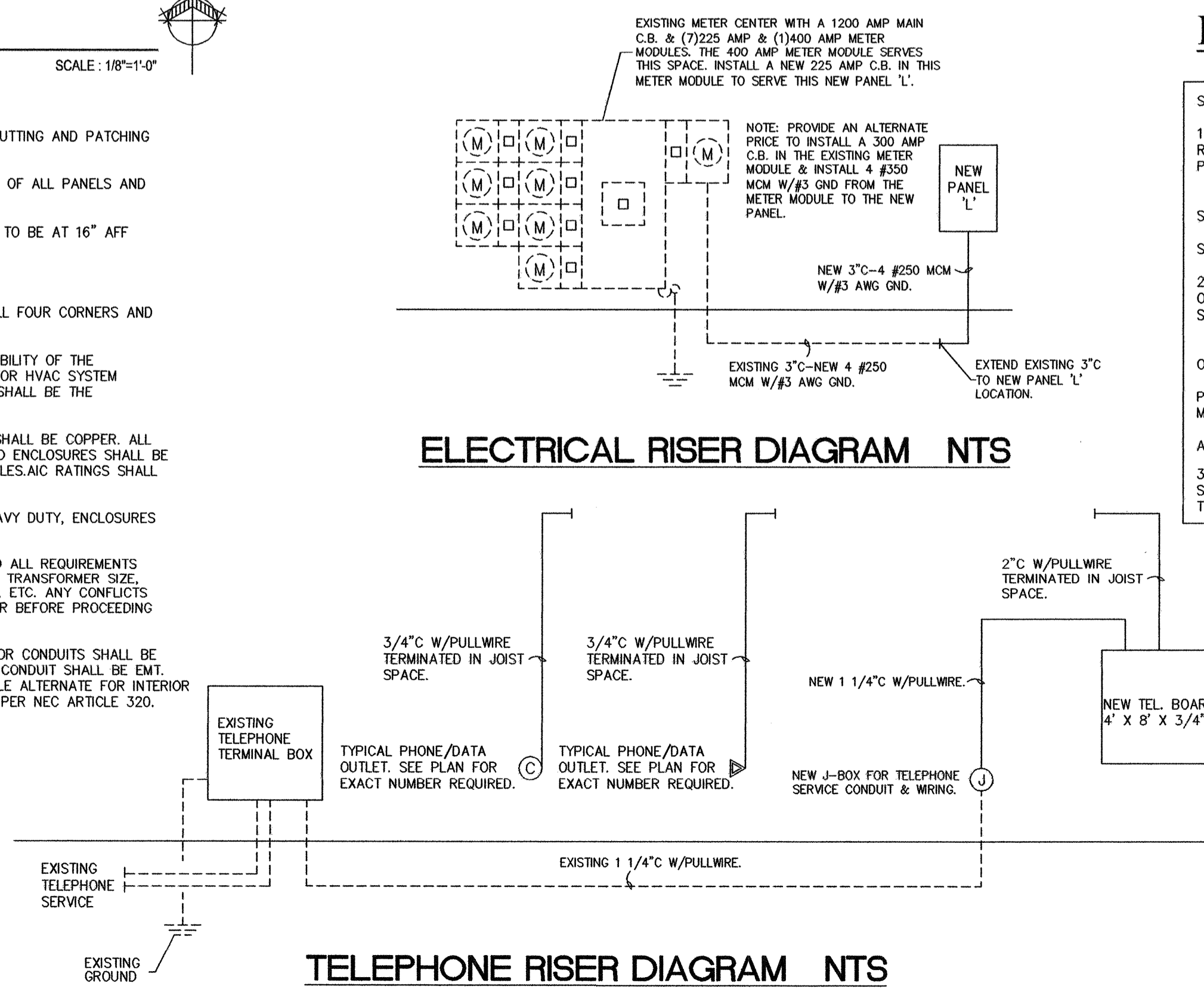
ELECTRICAL LEGEND:

- RECESSED FLUORESCENT.
- 8 FT STEM-MOUNTED FLUORESCENT.
- EXIT LIGHT.
- EMERGENCY LIGHT.
- LIGHT FIXTURE TYPE DESIGNATION.
- DUPLEX RECEPTACLE.
- QUAD-POLE RECEPTACLE.
- JUNCTION BOX, 4" SQUARE UNLESS NOTED.
- TELEPHONE & DATA OUTLET.
- TELEVISION OUTLET.
- TELEPHONE OUTLET.
- WEATHERPROOF.
- GROUND FAULT INTERRUPTER.
- TOGGLE TYPE WALL SWITCH (3 = 3 WAY)
- TWO POLE RECEPTACLE.
- OCCUPANCY SENSOR (SEE DEVICE SCHEDULE).
- POWER PACK (SEE DEVICE SCHEDULE).
- EXHAUST FAN.
- DISCONNECT.
- DUCT SMOKE DETECTOR.
- TEST/RESET STATION.

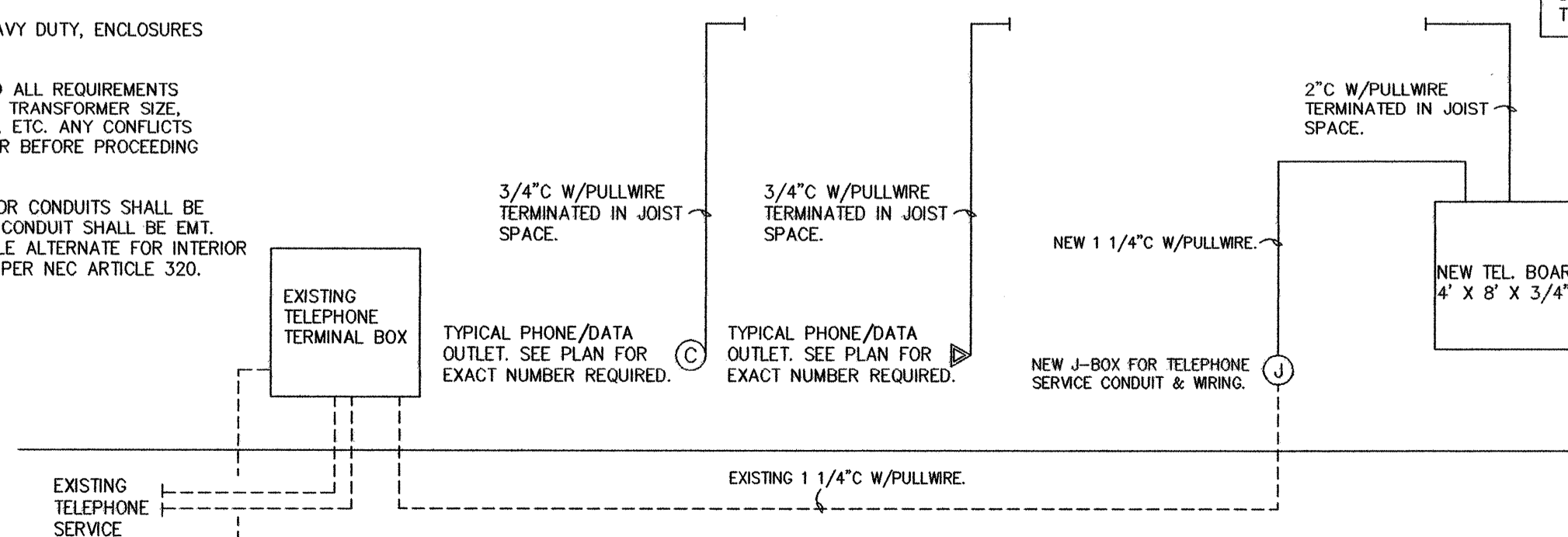
ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND TELEPHONE INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND THE FLORIDA BUILDING CODE.
4. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNERS REPRESENTATIVE.
5. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER WITH THIN INSULATION.
6. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
7. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
8. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.
9. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE PROJECT.
10. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
11. THE ELECTRICAL INSTALLATION SHALL MEET ALL REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
12. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
13. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS OR FUSED SWITCHES AS INDICATED.
14. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES FOR ALL OUTLETS AS INDICATED.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
16. ELECTRICAL CONTRACTOR SHALL LABEL EXTERIOR OF ALL PANELS AND PROVIDE COMPLETE TYPED DIRECTIONS.
17. ALL ELECTRICAL AND TELEPHONE/DATA OUTLETS TO BE AT 16" AFF UNLESS NOTED OTHERWISE, VERTICALLY MOUNTED.
18. ALL LIGHT SWITCHES TO BE AT 42" AFF.
19. LAY IN LIGHT FIXTURES TO BE SUPPORTED AT ALL FOUR CORNERS AND SECURED TO STRUCTURE ABOVE.
20. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
21. PANELBOARDS: ALL CURRENT CARRYING BUSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANELBOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONDUIT HOLES. AC RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
22. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, ENCLOSURES AS REQUIRED BY EXPOSURE.
23. CONTRACTOR SHALL CONFIRM WITH EPL ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
24. ALL SERVICE CONDUIT AND ALL EXPOSED EXTERIOR CONDUITS SHALL BE RIGID METAL. INTERIOR LIGHTING AND RECEPTACLE CONDUIT SHALL BE EMT. TYPE AC ARMORED CABLE SHALL BE AN ACCEPTABLE ALTERNATE FOR INTERIOR LIGHTING & RECEPTACLE CIRCUITS WHERE ALLOWED PER NEC ARTICLE 320.

ELECTRICAL RISER DIAGRAM NTS



TELEPHONE RISER DIAGRAM NTS



SPECIFIC ELECTRICAL NOTES:

1. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING THE FOLLOWING:
  - A. A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL SYSTEM.
  - B. FLOOR PLANS INDICATING THE LOCATION & THE AREA SERVED FOR ALL DISTRIBUTION.
2. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER W/AN OPERATING MANUAL & A MAINTENANCE MANUAL. THE MANUALS SHALL INCLUDE THE FOLLOWING:
  - A. SUBMITTAL DATA STATING EQUIPMENT RATINGS & SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
  - B. OPERATION MANUALS & MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
  - C. NAMES & ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
3. PER CHAPTER 13, SECTION 413.1.ABC.1 THE VOLTAGE DROP FOR THE SERVICE CONDUCTORS DOES NOT EXCEED 2% & THE VOLTAGE DROP FOR THE BRANCH CIRCUIT CONDUCTORS DOES NOT EXCEED 3%.

LOAD CENTER SCHEDULE 'L'

120/208 VOLTS 3 PHASE 4 WIRE 225 AMP BUS 42 BRANCH POLES X FULL NEUTRAL		22,000 AMP-SYM-RMS																	
SURFACE MOUNTING		225 AMP MAIN LUGS						SHORT CIRCUIT 1=						22,000					
COND. & WIRE	AMPS	A	B	C	LOAD	P	A	T	B	K	F	A	LOAD	A	B	C	COND. & WIRE		
1/2" #12	9				LIGHTING (UNCOND. W/H 105)	1	20	1					RECEPTACLES (W/H 105)	9			1/2" #12		
	10				(UNCOND. W/H 105)				3	4			(W/H 105)				8		
1/2" #10	8				(HIGH-BAY STORAGE 100)				5	6			(STORAGE 100)				6		
	7				(MEZZANINE 106)				7	8			(STORAGE 100)				9		
	7				(101-104)				9	10			(101,102)				9		
	6				(107-110)				11	12			(106,107)				11		
1" #6	11				(STORAGE 100 UNDERDECK)				13	14			(106,108)				8		
	41				RTU-1	3	60	15	15	16			(106,109)				8		
	41								17	18			(GFI, TOILETS 103,104)				3		
	41								19	20			APPLIANCE				6		
	41				RTU-2	3	60	21	22	22			MICROWAVE				8		
	41								23	24			REFRIGERATOR				6		
	41								25	26			EWC				5		
1/2" #12	3				ROOF RECEPTACLE	1	20	27	28	28			FUTURE EXTERIOR SIGNAGE				5		
	15				DUCT SMOKE DETECTORS	1	20	29	30	30			FUTURE EXTERIOR SIGNAGE				5		
1/2" #10	15				AIR COMPRESSOR	2	30	31	32	32			SPACE			X			
	15								33	34			TEL. BOARD				5		
	20				DOOR MACHINE	2	30	35	36	36			DEDICATED DUPLEX-CLG				12		
	20				TABLE SAW	2	30	39	40	40			SPACE						
	20								37	38			DEDICATED DUPLEX-CLG				12		
	20								39	40			SPACE						
	20								41	42			SPACE						
TOTAL AMPS		BUS A= 191			BUS B= 180			BUS C= 182			CONNECTED KVVA=								

NOTE: PROVIDE AN ALTERNATE PRICE TO PROVIDE A 400 AMP, 42 SPACE PANEL IN LIEU OF THE 225 AMP PANEL IN THE BASE BLD.

commission 29012

date: 6-3-09

revision date

no.

drawing **E1.2**

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**Building B, Bay 6**  
Southern Park of Commerce  
Palm Beach County, FL