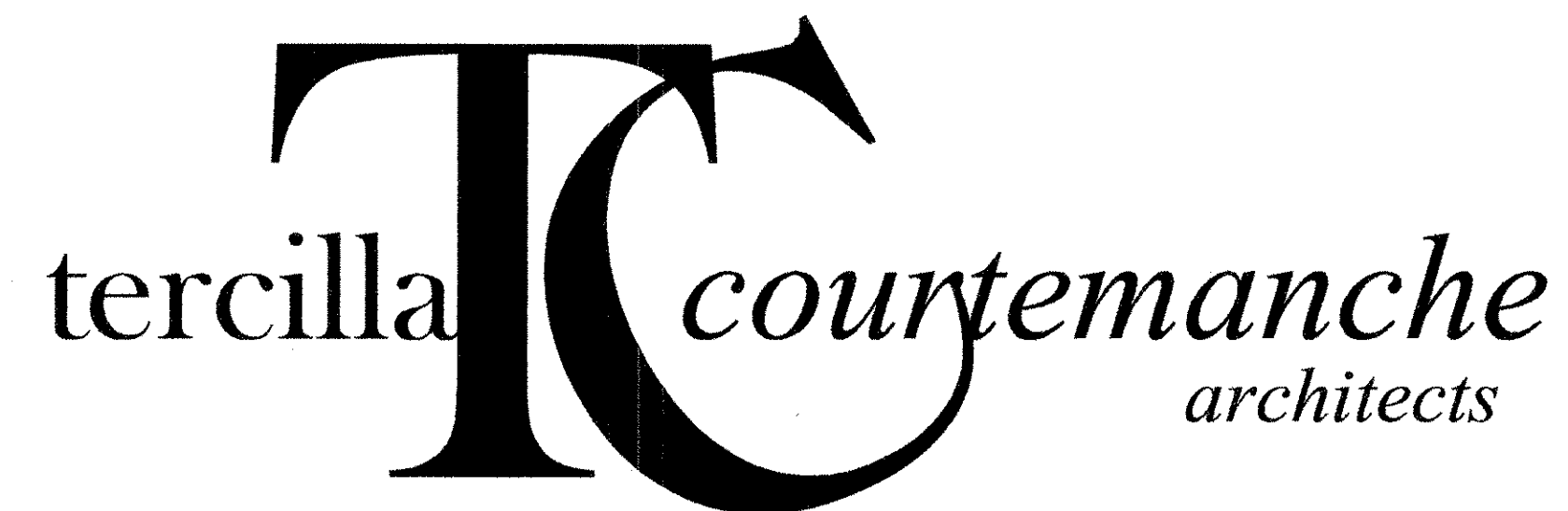


Tenant Improvement for:  
**Building A, Bay 19 & 20**  
**SOUTHERN PARK OF COMMERCE**  
Palm Beach County, Florida



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.

ARCHITECT:

**TERCILLA COURTEMANCHE**  
architects, inc.

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West Palm Beach, Florida 33411  
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MECHANICAL / ELECTRICAL / PLUMBING:

**CHANE, INC.**

2705 Park Street  
Lake Worth, Florida 33460  
Tel. 561-586-4003, Fax 561-586-5688

SHEET INDEX

ARCHITECTURAL

COVER SHEET

A1.1 FLOOR PLAN, MEZZANINE PLAN, CEILING PLANS & SCHEDULES  
A2.1 DETAILS & WALL TYPES

MECHANICAL / ELECTRICAL/ PLUMBING

M1.1 HVAC & PLUMBING PLANS, NOTES, SCHEDULES & DETAILS  
E1.1 ELECTRICAL PLANS & PANEL SCHEDULES  
E2.1 ELECTRICAL NOTES, SCHEDULES & DETAILS

FINISH SCHEDULE							
ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CLNG. HGT.	REMARKS
100	EXISTING RECEPTION	EXISTING	EXISTING	EXISTING	EXISTING		
101	EXISTING OFFICE	EXISTING	EXISTING	EXISTING	EXISTING		
102	EXISTING RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING		
103	EXISTING WAREHOUSE	EXISTING	EXISTING	EXISTING	EXISTING		
104	RESTROOM	CT	CT	PAINTED G.W.B.	G.W.B.	8'-0" A.F.F.	EPOXY PAINT
105	WAREHOUSE	CONCRETE	-	CONC.G.W.B.	EXPOSED	-	TAPE & MUD G.W.B. ONLY. DO NOT PAINT.
106	WAREHOUSE	CONCRETE	-	CONC.G.W.B.	EXPOSED	-	TAPE & MUD G.W.B. ONLY. DO NOT PAINT.
200	PRIVATE OFFICE	CARPET	4" VINYL	PAINTED G.W.B.	ZX* ACT	SEE CEILING PLAN	
201	STORAGE	CONCRETE	-	EXISTING	EXPOSED	-	

FINISH SCHEDULE NOTES:

- ALL FLOORING FINISHES TO BE SELECTED BY TENANT AND INSTALLED BY CONTRACTOR.
- CONFIRM ALL FINISH MATERIALS WITH TENANT PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WALLCOVERINGS, FLOORING, WALL BASE, CABINETS, ETC.
- PAINT TO BE APPLIED AS FOLLOWS: ONE (1) COAT OF PRIMER AND TWO (2) COATS OF FINISH PAINT.
- CONTRACTOR TO PROVIDE TRANSITION STRIPS AT THE CENTER OF DOOR OPENINGS WHERE DIFFERING FLOORING MATERIALS MEET.
- CONTRACTOR SHALL PROVIDE \$12 / YD. MATERIAL ALLOWANCE FOR CARPET.
- VCT TO BE ARMSTRONG STANDARD EXCELON W/ 4" BURKE MERCER VINYL BASE.
- CONTRACTOR TO PROVIDE A \$2.50 MATERIAL ALLOWANCE FOR CERAMIC TILE.

DOOR SCHEDULE						
OPENING NUMBER	DOOR		FRAME		REMARKS	
	SIZE	MATL.	TYPE	MATL.		
1	3'-0" x 7'-0"	WOOD	A	WD.	PASSAGE SET PROVIDE WEATHER STRIPPING @ ADA THRESHOLD	
2	3'-0" x 7'-0"	WOOD	A	WD.	PRIVACY SET PROVIDE WEATHER STRIPPING @ THRESHOLD	
EX	EXISTING	-	-	-	-	

DOOR HARDWARE SETS:

- DOOR HARDWARE TO BE LEVER ACTION SCHLAGE "AL" SERIES, JUPITER, 626 FINISH.
- CONTRACTOR TO VERIFY ALL DOOR HARDWARE REQUIREMENT W/ TENANT PRIOR TO INSTALLATION.

### 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.

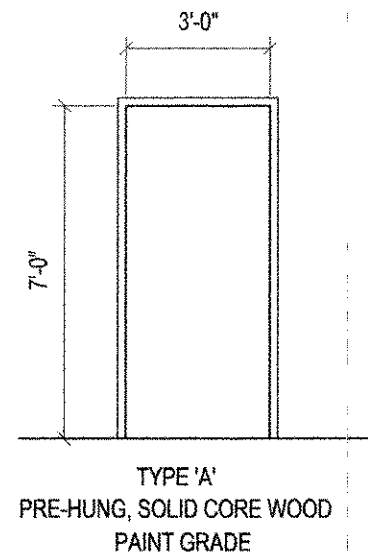
ANY WORK THAT MUST BE PERFORMED IN OTHER TENANT SPACES IN RELATION TO THIS CONSTRUCTION SHALL BE PERFORMED IN A MANNER SO AS NOT TO DISRUPT THE OWNER. ALL WALLS, SLABS, CEILINGS, ETC. DISTURBED IN OTHER SPACES SHALL BE RESTORED TO ORIGINAL CONDITION ONCE WORK IS COMPLETE.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH THE NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

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'.



DOOR ELEVATION

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

### BUILDING CODE INFORMATION

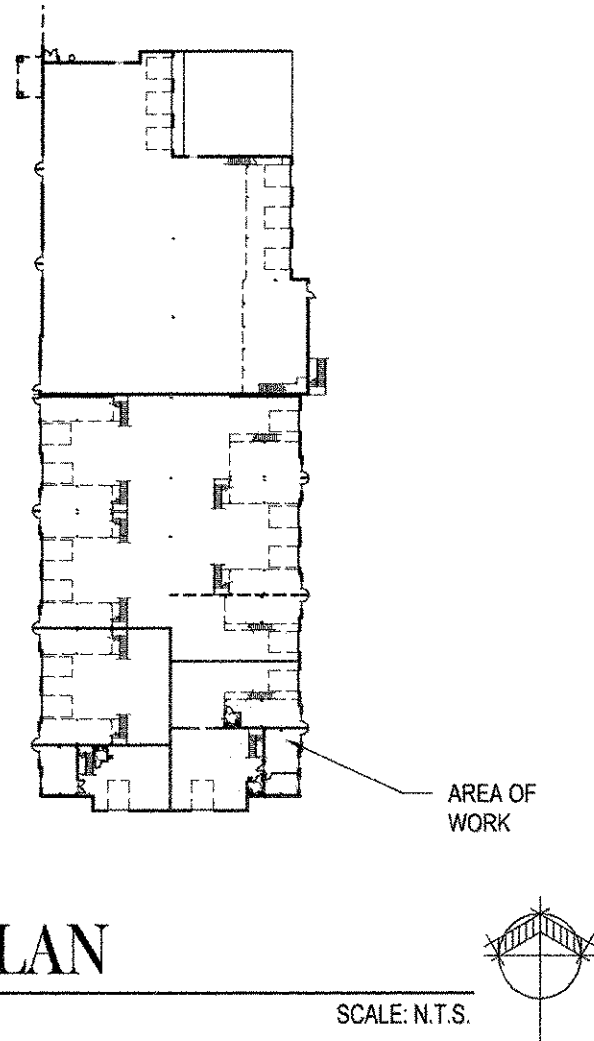
BASED ON FLORIDA BUILDING CODE 2007 w/ 2009 REVS.

BUILDING TYPE		TYPE II B CONSTRUCTION, SPRINKLERED
OCCUPANCY:		GROUP F-1, FACTORY INDUSTRIAL
AREA CALCULATIONS:		
GROUND FLOOR:	OFFICE	548 S.F.
	WAREHOUSE	3,569 S.F.
MEZZANINE AREA:	OFFICE	487 S.F.
	STORAGE	478 S.F.
TOTAL TENANT AREA =		5,090 S.F.
LIFE SAFETY SYSTEM:		
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	

### CEILING LEGEND

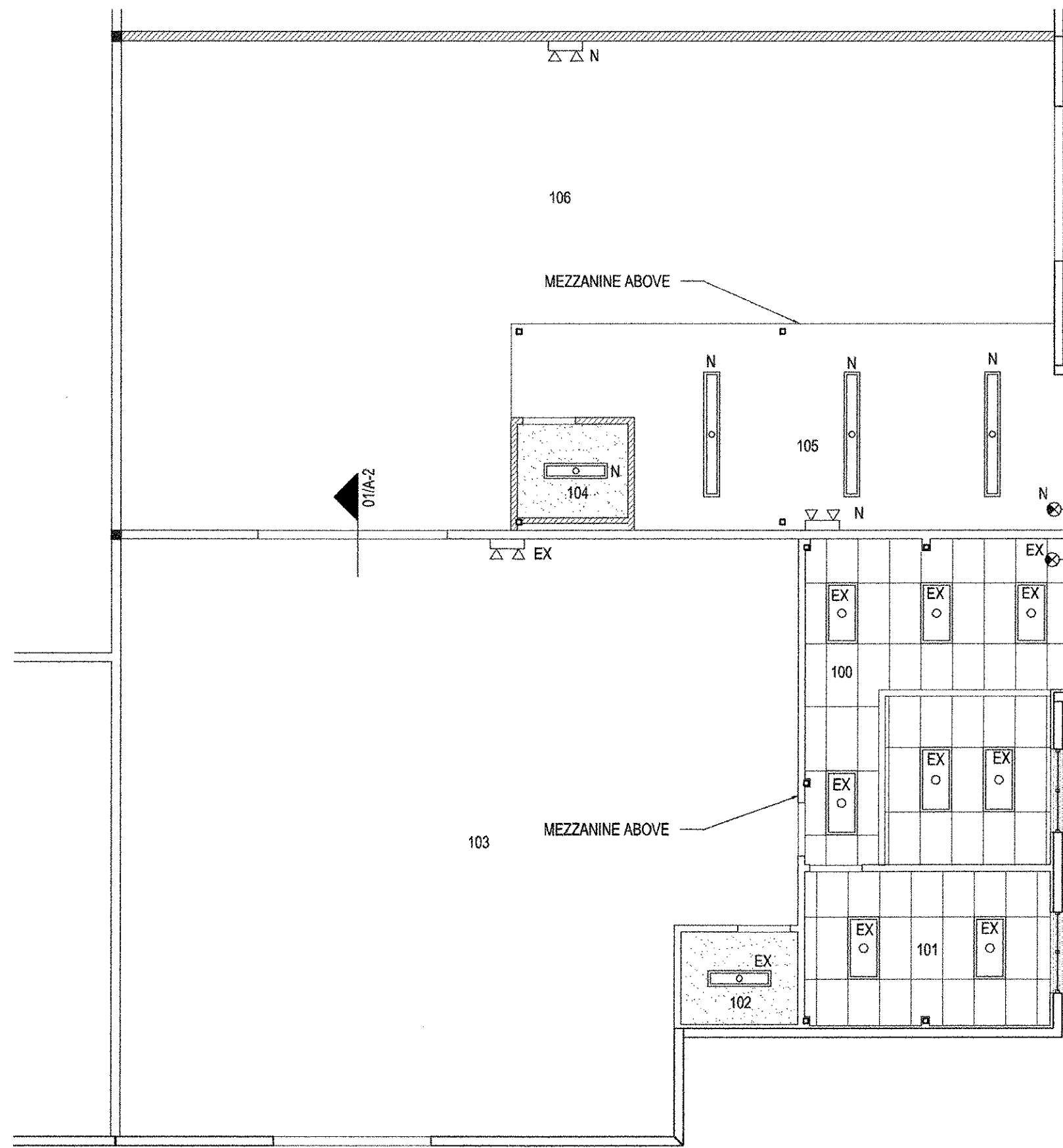
	2x4 ARMSTRONG FINE FISSURED SQUARE LAY-IN CEILING #1729 W/ 15/16" PRELUDE XL EXPOSED TEE GRID.
	GYPSUM BOARD CEILING/SOFFIT
	2x4 FLUORESCENT FIXTURE WITH PRISMATIC LENS
	1x8 FLUORESCENT FIXTURE
	1x4 FLUORESCENT FIXTURE
	EXIT SIGN
	EMERGENCY LIGHTS
	EXISTING FIXTURE
	NEW FIXTURE
	RELOCATED FIXTURE

NOTES:  
REFER TO ELECTRICAL PLANS FOR FIXTURE TYPES & SCHEDULE



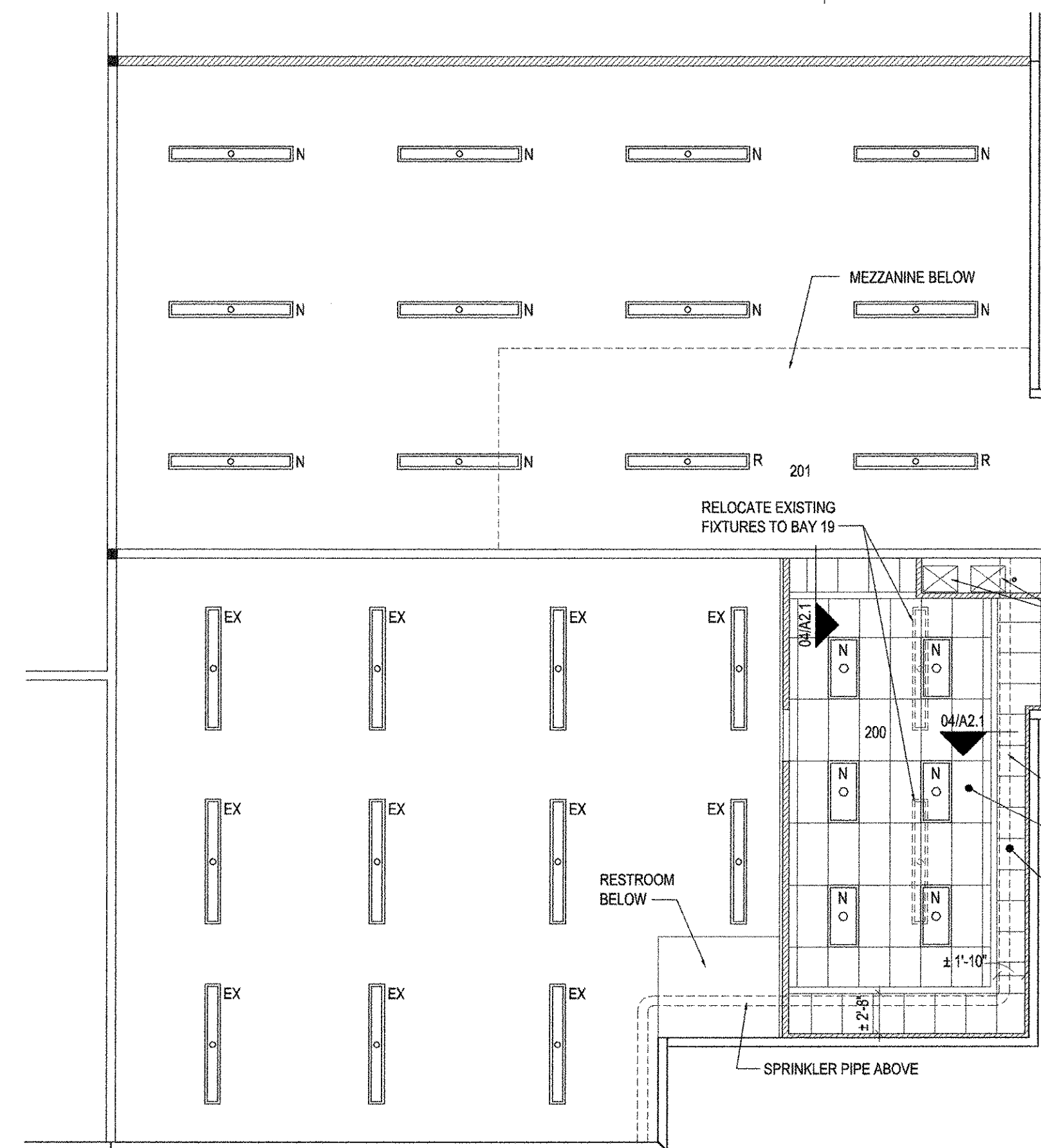
KEY PLAN

SCALE: N.T.S.



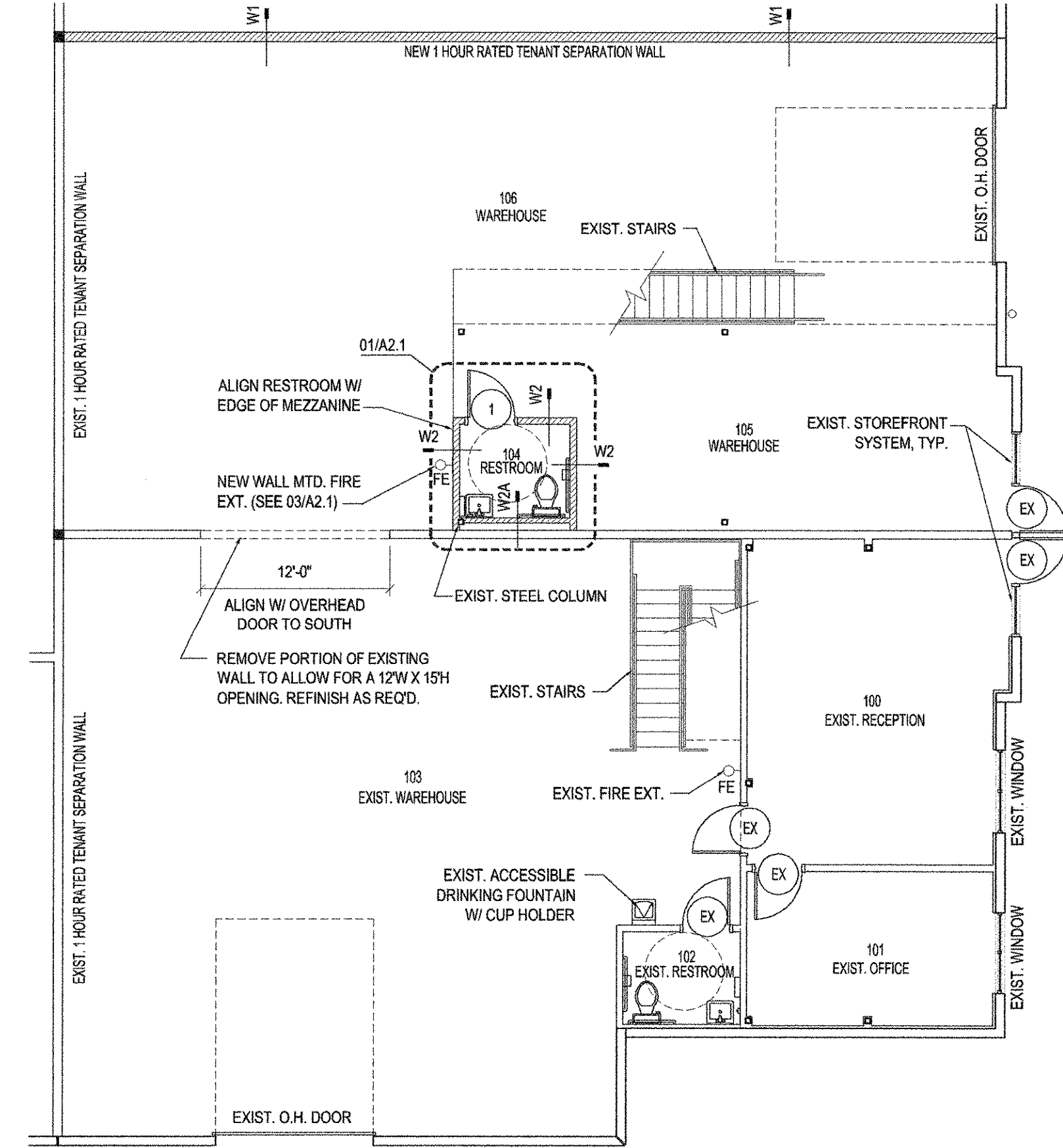
REFLECTED CEILING PLAN

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



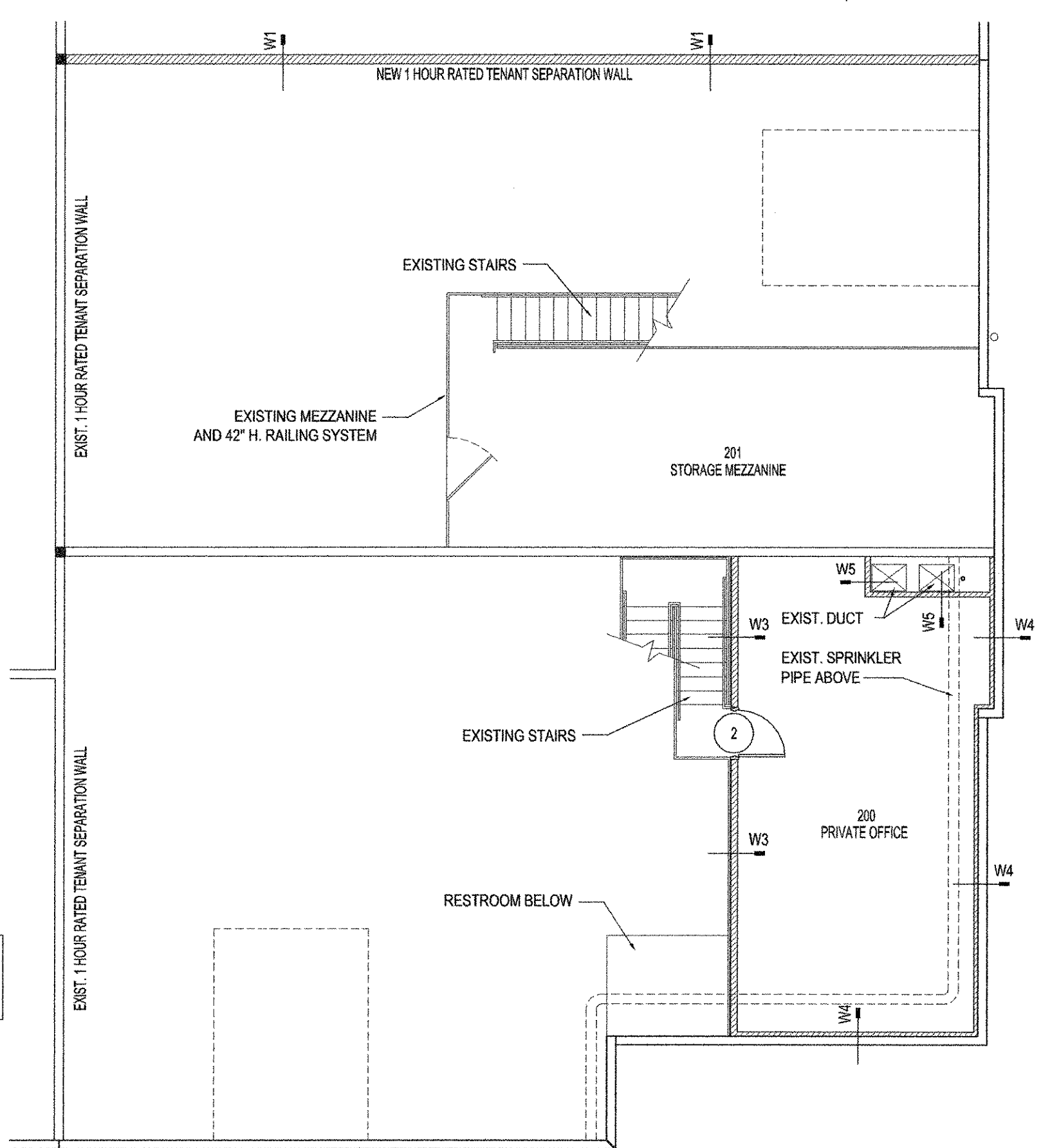
HIGH REFLECTED CEILING PLAN

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



FLOOR PLAN

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



MEZZANINE PLAN

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

WALL LEGEND	
	NEW WALL (SEE WALL TYPES)
	EXISTING WALL

tercilla  
**Courtemanche**  
architects

AA 0003414  
2047 vista parkway, suite 100  
west palm beach, florida 33411 ph: 561.478.4457 fx: 561.478.4102

Tenant Improvement for:  
**Building A, Bay 19 & 20**  
Southern Park of Commerce  
Palm Beach County, FL

commission 210027

date: 8-13-10

revision date

no.

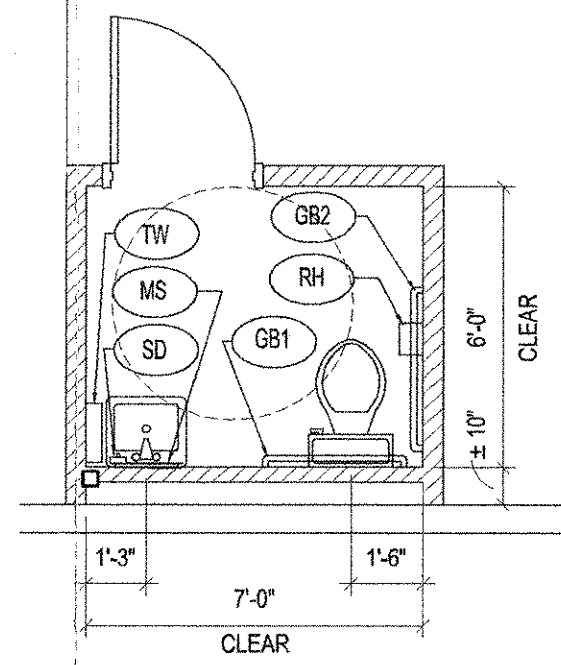
drawing

**A1.1**

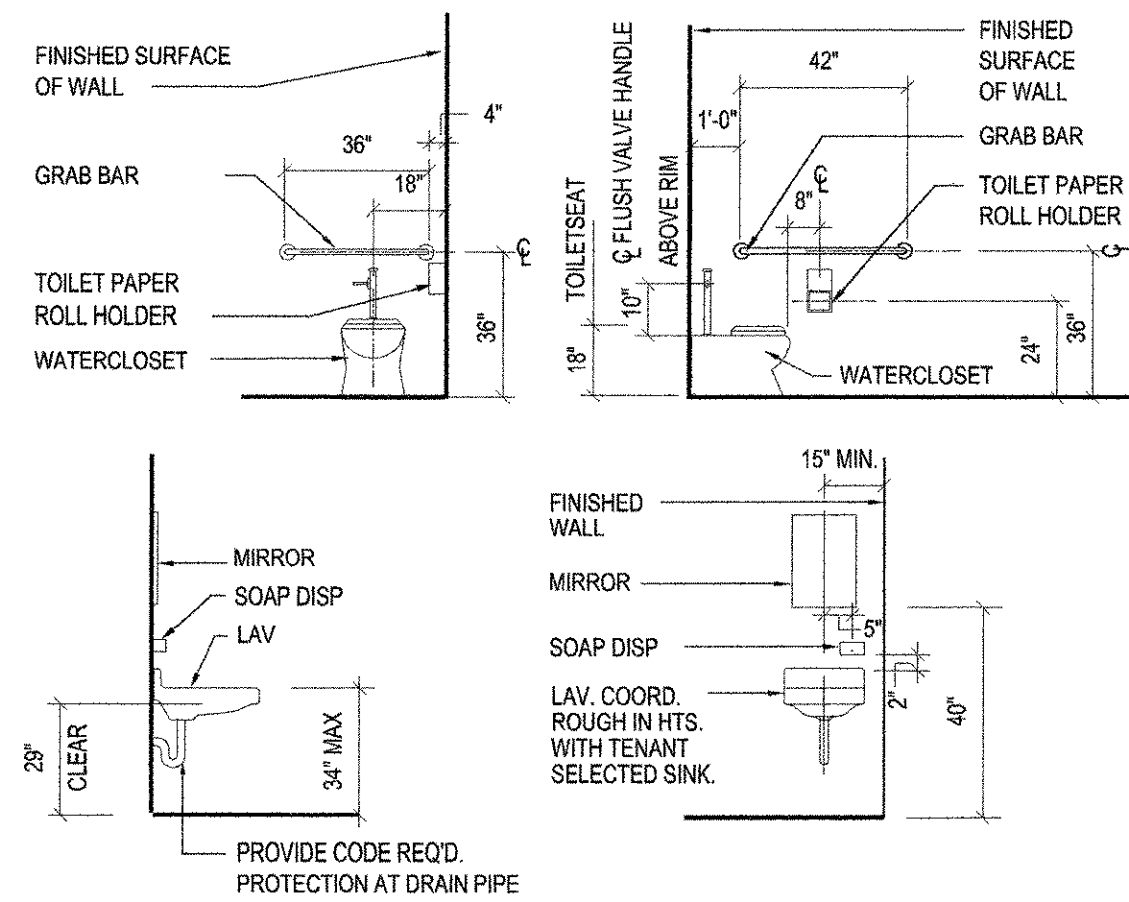
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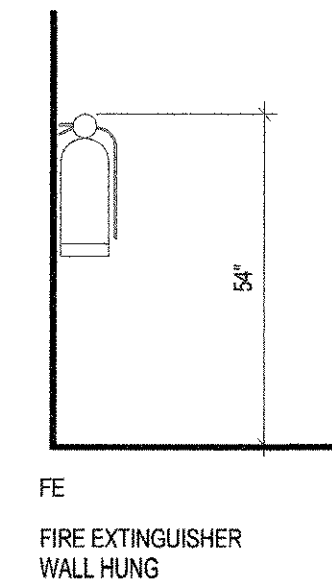
RESTROOM ACCESSORIES	
GB1	36" STAINLESS STEEL GRAB BAR (BOBRICK B-6806x36 OR EQUAL)
GB2	42" STAINLESS STEEL GRAB BAR (BOBRICK B-6806x42 OR EQUAL)
MS	18"x20" FRAMED MIRROR (BOBRICK B-165 1830 OR EQUAL)
TW	SURFACE MOUNTED PAPER TOWEL DISPENSER (BOBRICK B-262 OR EQUAL)
SD	SURFACE MOUNTED SOAP DISPENSER (BOBRICK B-2111 OR EQUAL)
RH	TOILET TISSUE DISPENSER (BOBRICK B-76857 OR EQUAL)



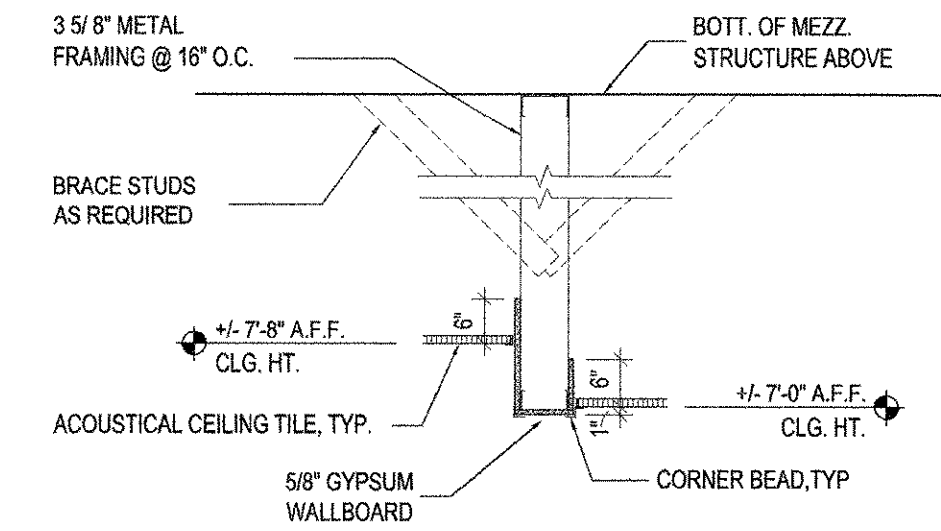
01 ENLARGED RESTROOMS  
SCALE: 1/4"=1'-0"



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



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

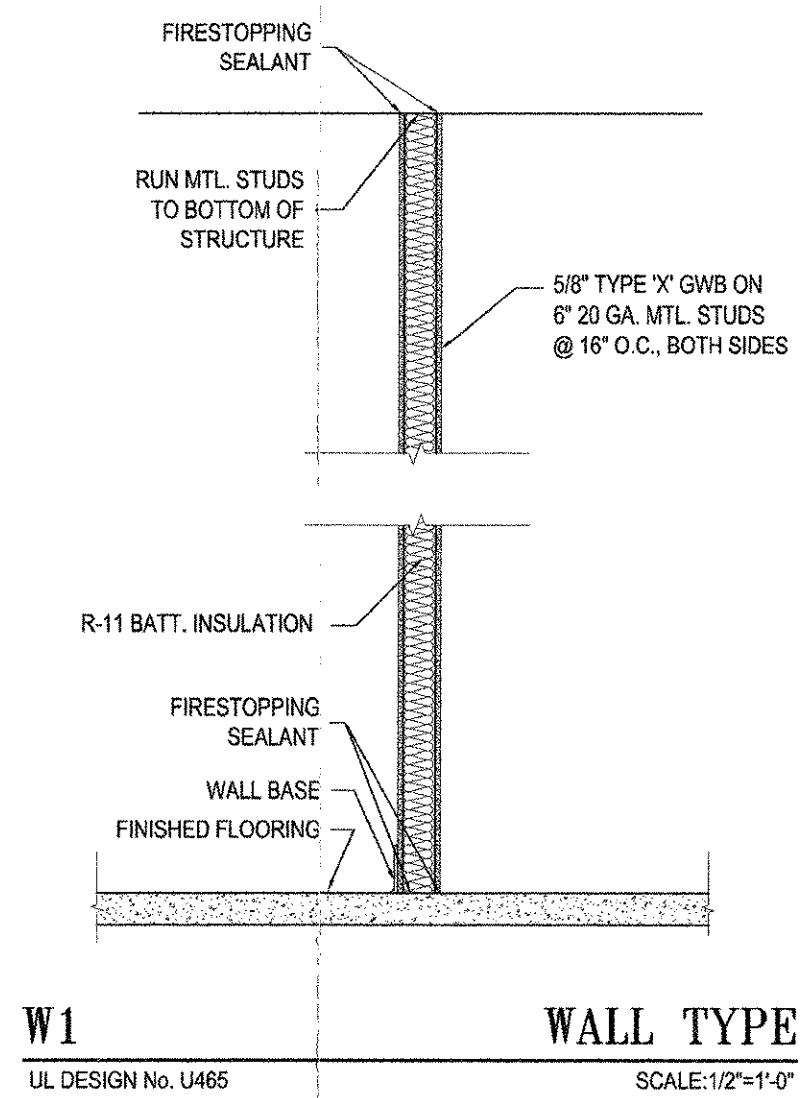


04 CEILING DETAIL  
SCALE: 1/2"=1'-0"

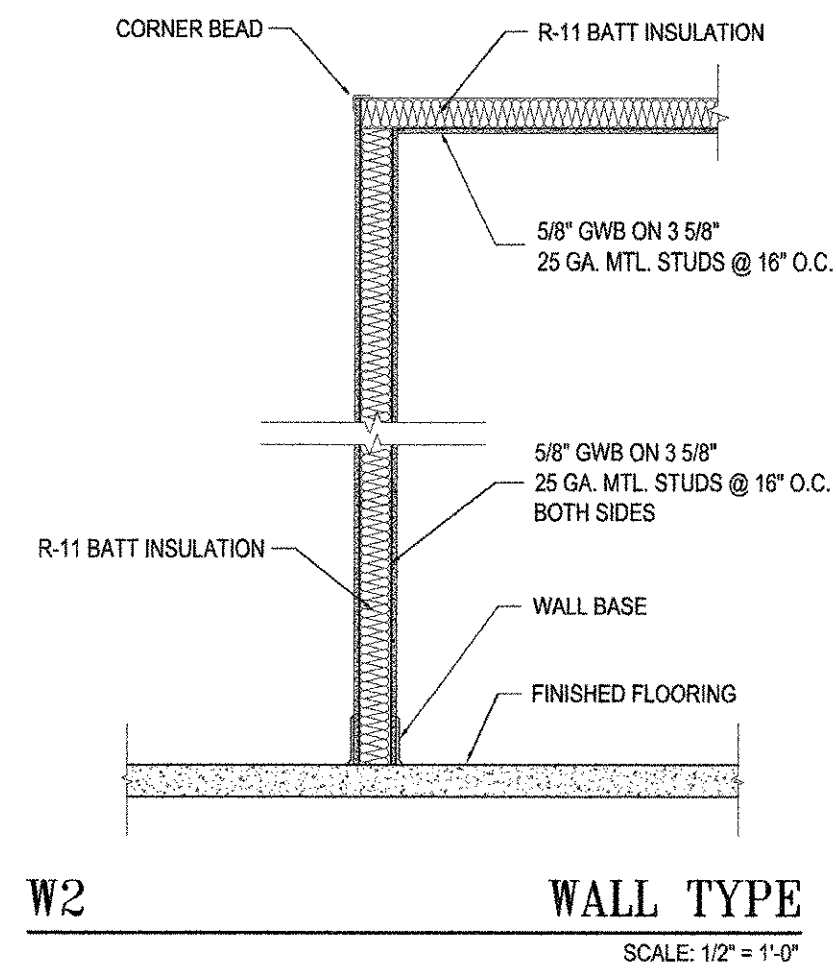
**WALL TYPE NOTES:**

- 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

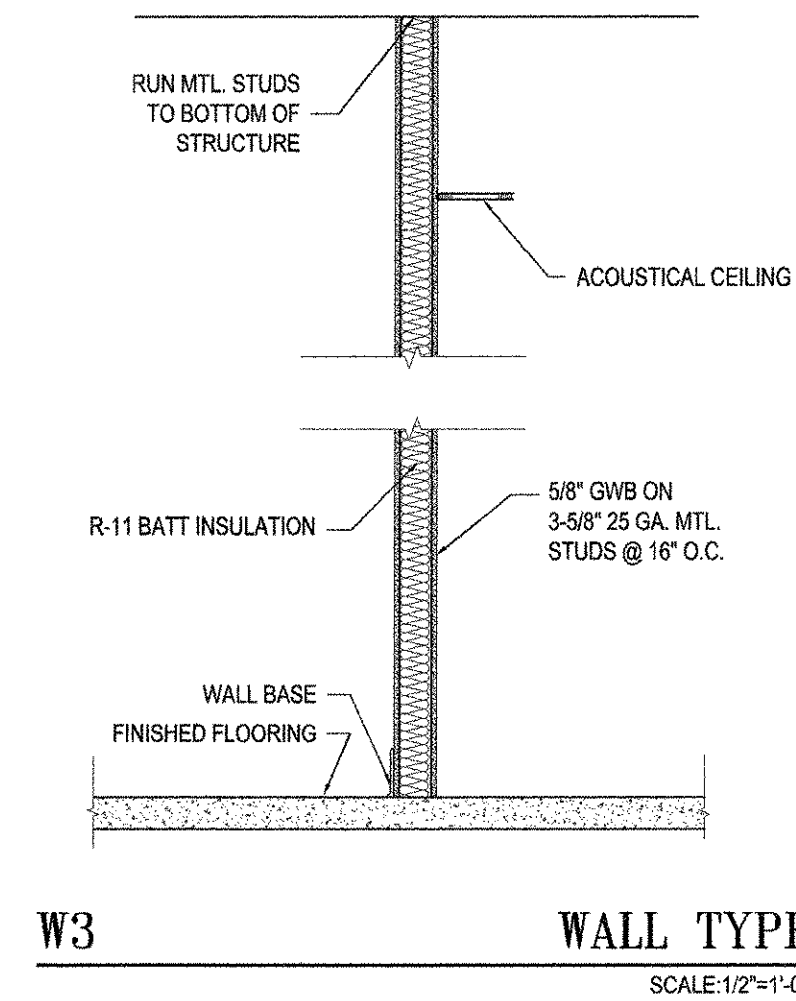
ALTERNATE PENETRATION PROTECTION SYSTEMS MUST BE TEST CERTIFIED AND SUBMITTED FOR REVIEW.



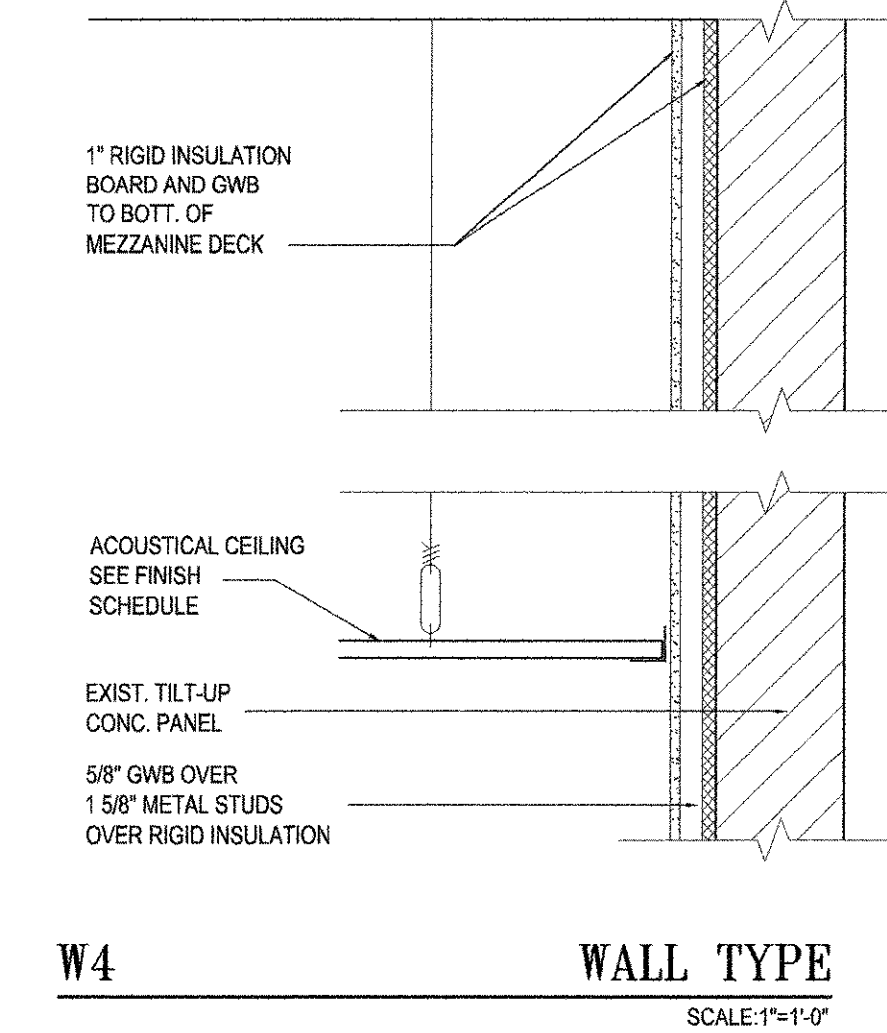
W1 WALL TYPE  
UL DESIGN No. U465 SCALE: 1/2"=1'-0"



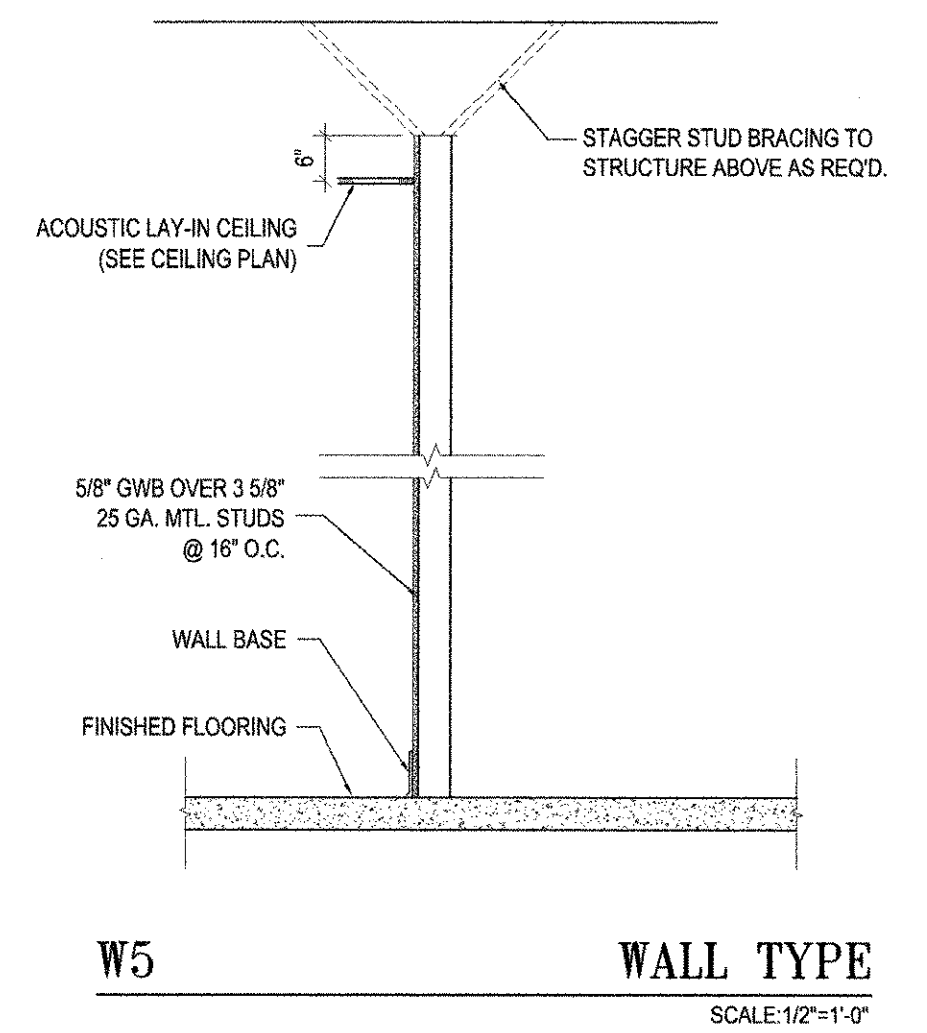
W2 WALL TYPE  
SCALE: 1/2"=1'-0"



W3 WALL TYPE  
SCALE: 1/2"=1'-0"



W4 WALL TYPE  
SCALE: 1/2"=1'-0"



W5 WALL TYPE  
SCALE: 1/2"=1'-0"

Tenant Improvement for:  
**Building A, Bay 19 & 20**  
Southern Park of Commerce  
Palm Beach County, FL

commission	210027
date:	8-13-10
revision	date
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copyright	2010

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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. PVC IF CODE PERMITS.
10. 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 "C" CELLULAR FOAM INSULATION, K=0.26 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.

**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.
- M.V.D. MANUAL VOLUME DAMPER
- WALL MOUNTED THERMOSTAT.
- D.M.S.D. DUCT MOUNTED SMOKE DETECTOR.

**AIR DISTRIBUTION SCHEDULE-BASED ON TITUS**

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

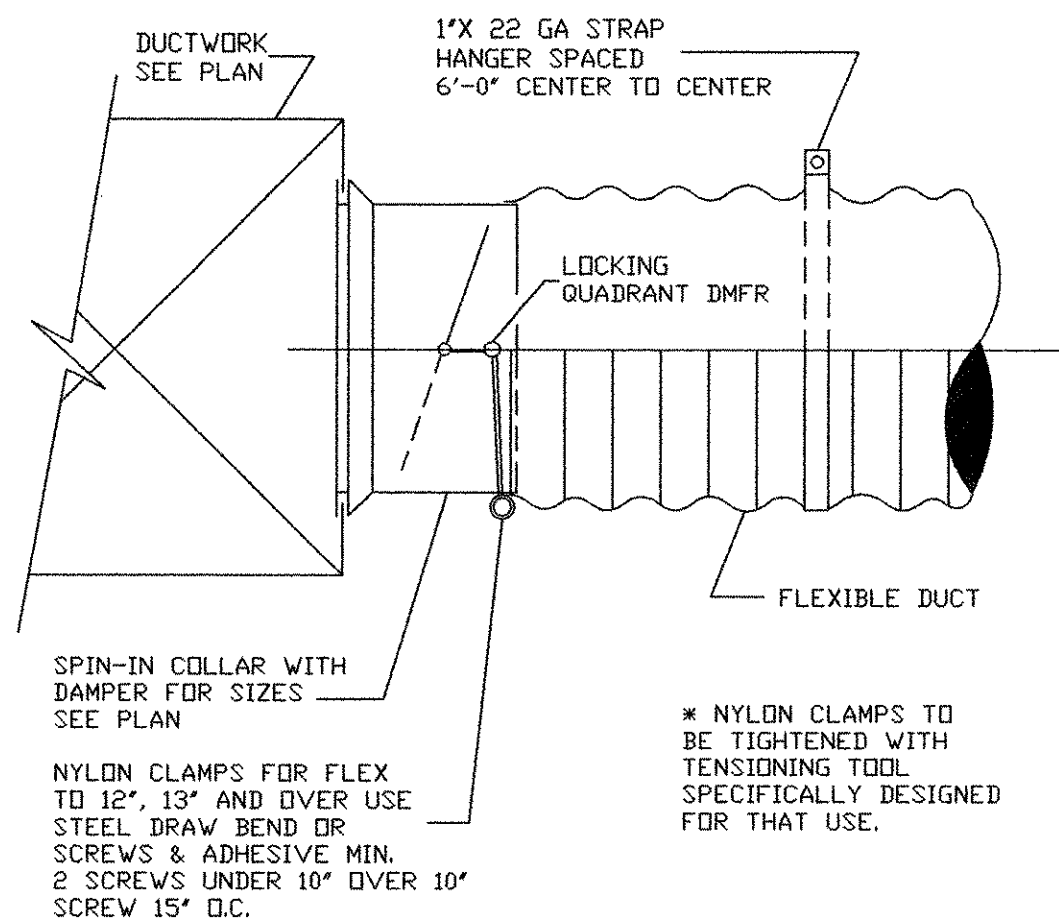
- NOTES:  
 1. USE BORDER TYPE 1 FOR SURFACE MOUNT.  
 2. USE BORDER TYPE 3 FOR LAY-IN CEILING.

**GENERAL MECHANICAL NOTE**

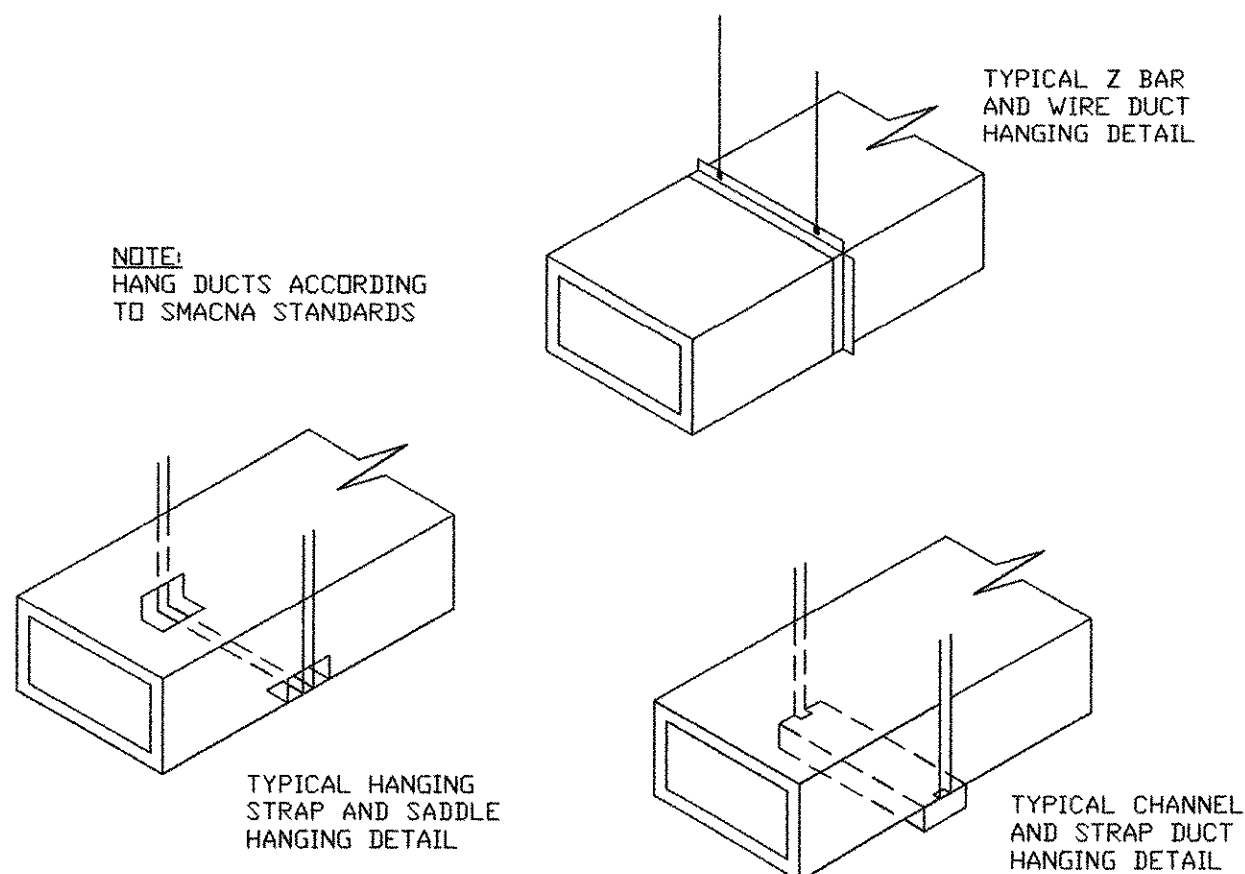
1. VISIT THE SITE BEFORE SUBMITTING A BID. DETERMINE THE CHARACTERISTICS OF EXISTING FACILITIES WHICH WILL AFFECT PERFORMANCE OF THE WORK, BUT WHICH ARE NOT SHOWN ON THE DRAWINGS OR THE SPECIFICATIONS.
2. SHOP DRAWINGS OR FULLY DESCRIPTIVE CATALOG DATA SHALL BE SUBMITTED BY THE CONTRACTOR FOR ALL KINDS 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 (1E1 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**

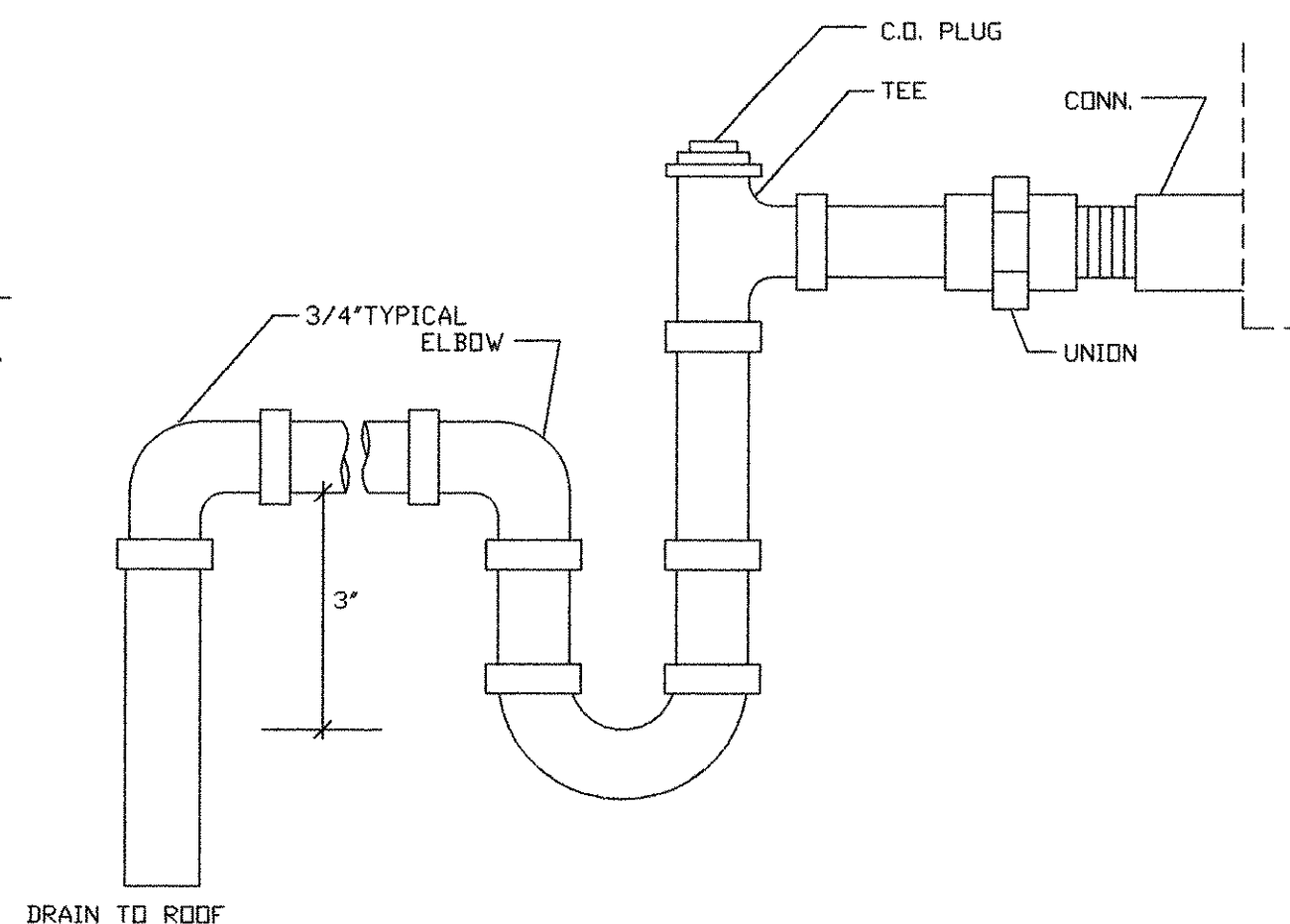
1. VISIT THE SITE PRIOR TO SUBMITTING A BID. DETERMINE THE CHARACTERISTICS OF EXISTING FACILITIES WHICH WILL AFFECT PERFORMANCE OF THE WORK, BUT WHICH ARE NOT SHOWN ON THE DRAWINGS.
2. PROVIDE ALL LABOR PERMITS, MATERIAL, TOOLS, SUPPLIES, EQUIPMENT TO INSTALL A COMPLETE AND OPERATING AIR CONDITIONING 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 (T) FROM AT EACH EVAPORATOR COIL. INCLUDE ALL VOLTAGE AND AMPERAGE FOR EACH MOTOR. THE REPORT SHALL BE DONE BY AN INDEPENDENT TAB 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 #D-BD2 WITH 1 1/2 HOUR RATINGS & DAMPERS FOR ROUND DUCT SHALL BE EQUAL TO RUSKIN #D-IBD2-OR 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.



**DUCT TAKE-OFF DETAIL NTS**



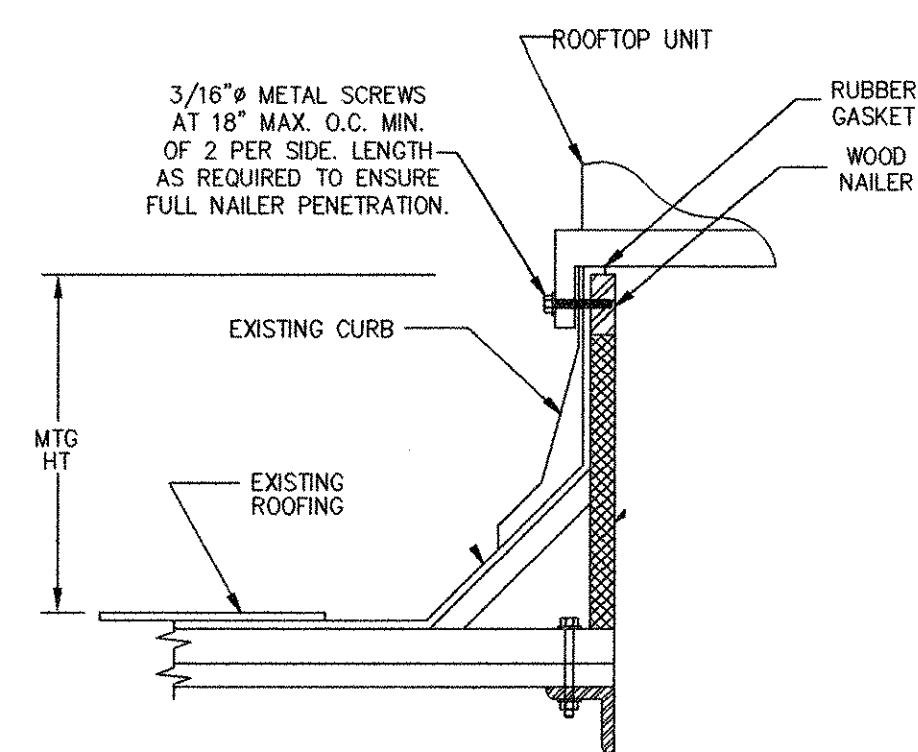
**METHODS OF HANGING DUCTS nts**



**CONDENSATE PIPING DETAIL NTS**

**PLUMBING FIXTURE SCHEDULE**

MARK	FIXTURE	DESCRIPTION	TRIM	REMARKS
1	H. C. W. C.	A/S 2216. 170 CADET 1. 6GPF	OPEN FRONT SEAT ELONGATED BOWL.	HANDICAP 17" HIGH
2	LAVATORY	A/S 0124. 024 COMRADE	A/S 5402. 172H FAUCET W/WRIST HANDLES AND 0.5 GPM FLOW RESTRICTOR	WALL MTD



**SUPPORT CURB DETAIL - NTS**

**RELOCATED ROOFTOP SCHEDULE**

TYPE	2.5 TON
TRANE MODEL NO.	4TCC3030A3
TOTAL COOLING	28000
SENSIBLE	21000
CFM	1000
ELEC. HEAT-KW	7.50
CDMP-FLA	18.1
DD FAN FLA	1.1
TD FAN FLA	2.0
FUSE	45
SEER	13.0
WEIGHT	445
ELECTRICAL	208-1 PH

1. PROVIDE ROOF CURB ADAPTER TO ALLOW NEW RTU/F REQUIRED TO MOUNT ON EXISTING BAY CURB/ROOF.
2. MECHANICAL CONTRACTOR SHALL PROVIDE FILTER RACK IN UNIT.
3. THE SPECIFIED UNIT SHALL BE OWNER PROVIDED.

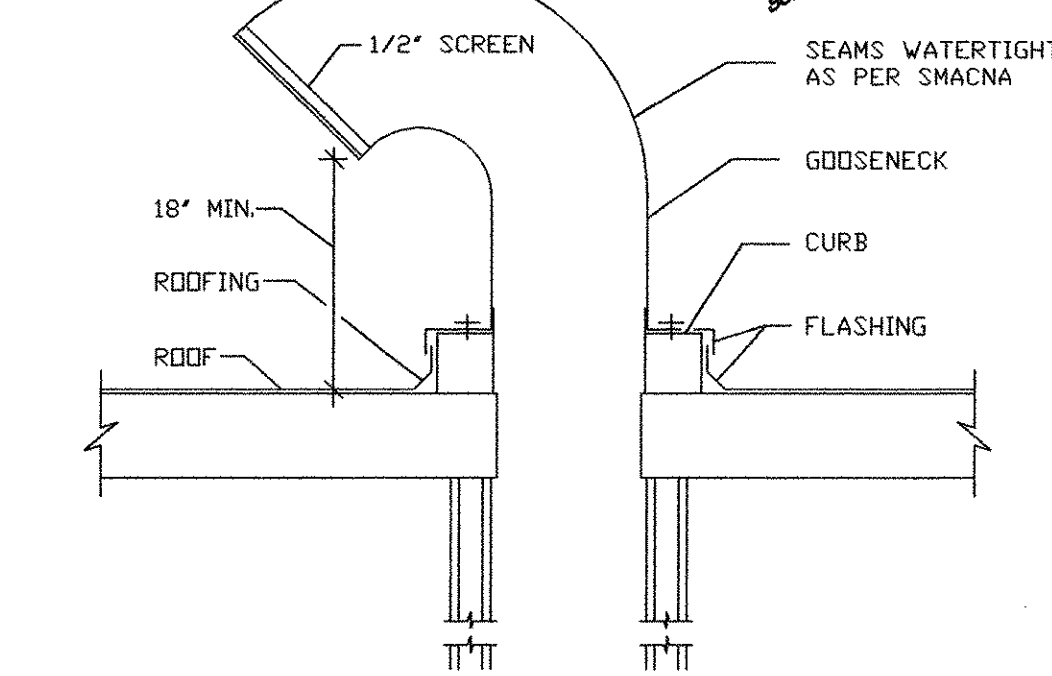
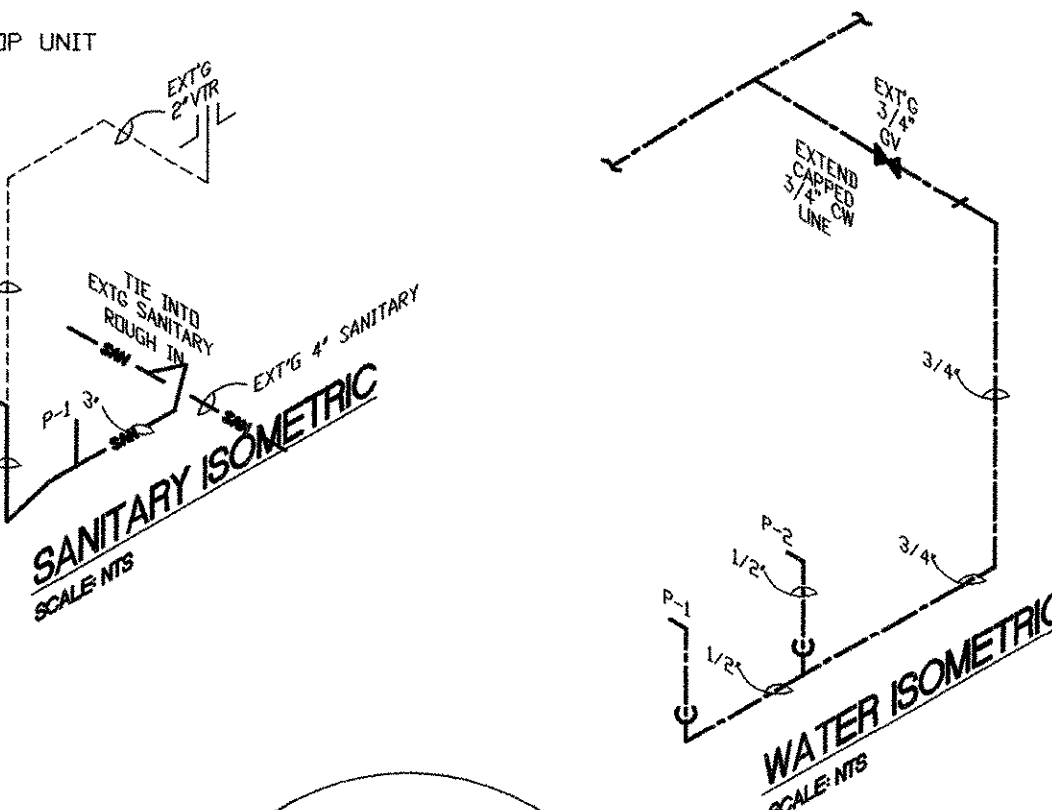
**OUTSIDE AIR CALCULATION**

(PER ASHRAE CODE 62.1, TABLE 6-1)  
 OFFICES (5 PPL / 1000 SF) X 569 SF X 17 CFM/PPL = 48.4 CFM  
 TOTAL : 96.8 CFM  
 SUPPLIED: 100 CFM

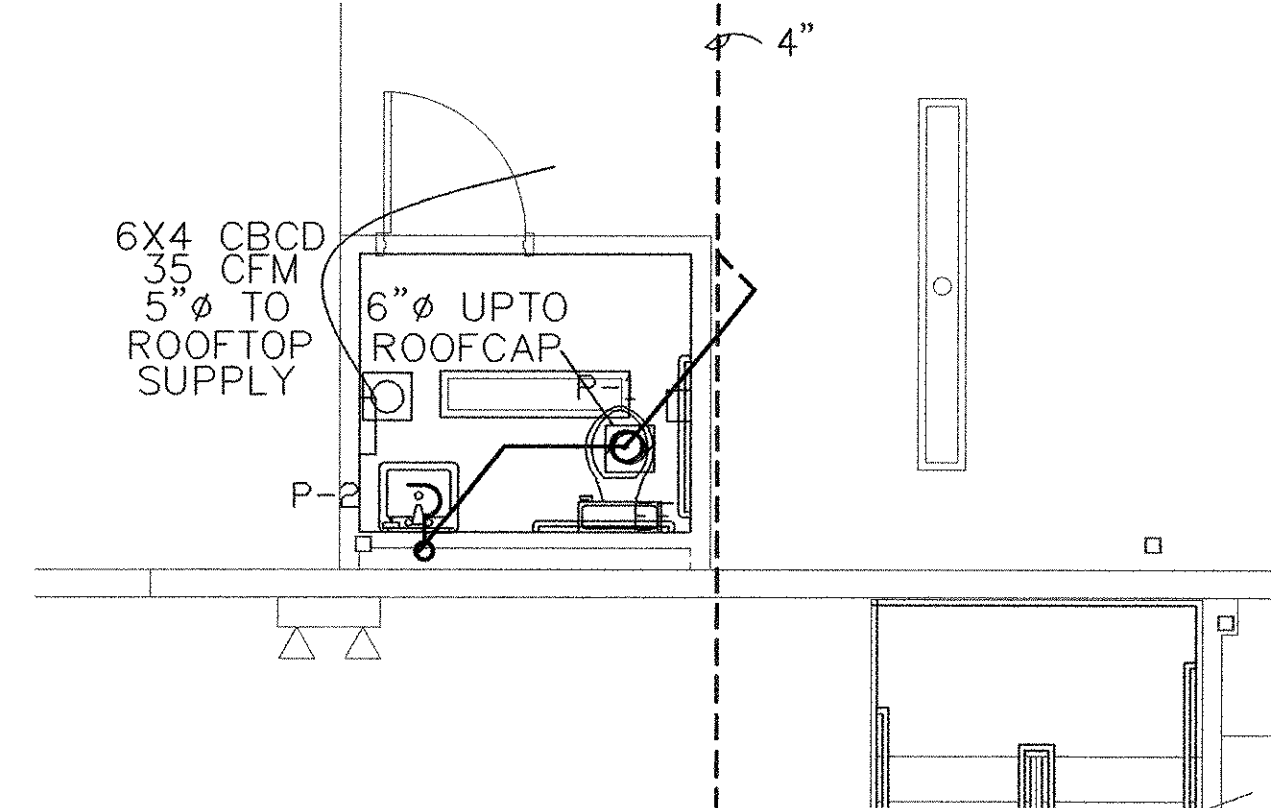
**FAN SCHEDULE**

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

- NOTES:  
 1. FOR MARK "EF", ACCEPTABLE ALTERNATE MANUFACTURERS SHALL BE PENN. CARNES.  
 2. FOR MARK "CF", PROVIDE WITH SW2 WALL CONTROL.

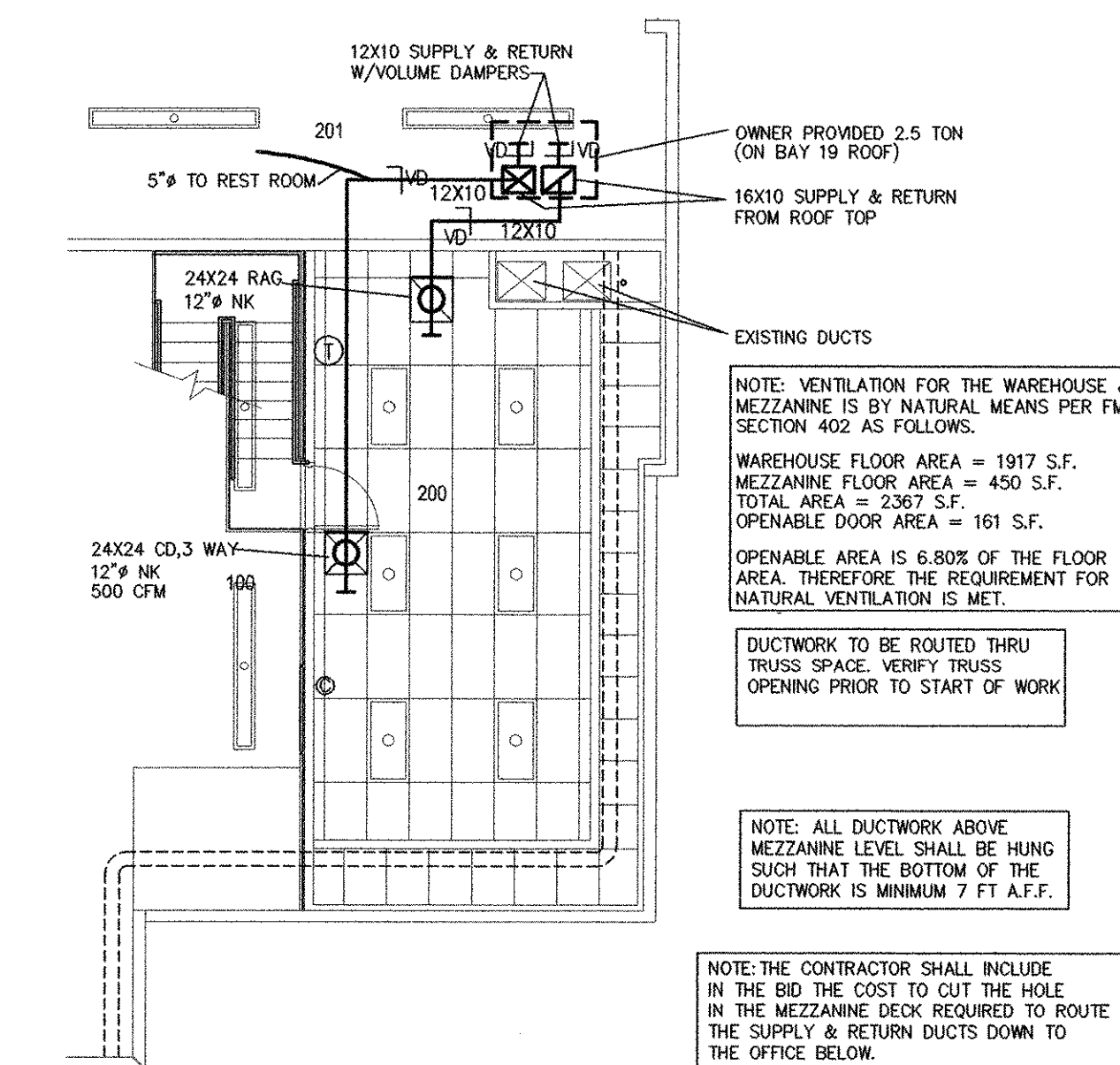


**GOOSENECK DETAIL - NTS**



**BAY 19 REST ROOM SAN & EXH PLAN**

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



**BAY 20 MEZZ OFFICE HVAC PLAN**

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

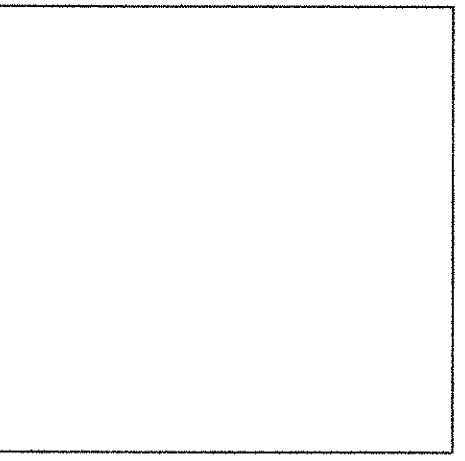
Tenant Improvement for:  
**Building A, Bay 19 & 20**  
 Southern Park of Commerce  
 Palm Beach County, FL

commission	210027
date:	8-13-10
revision	date
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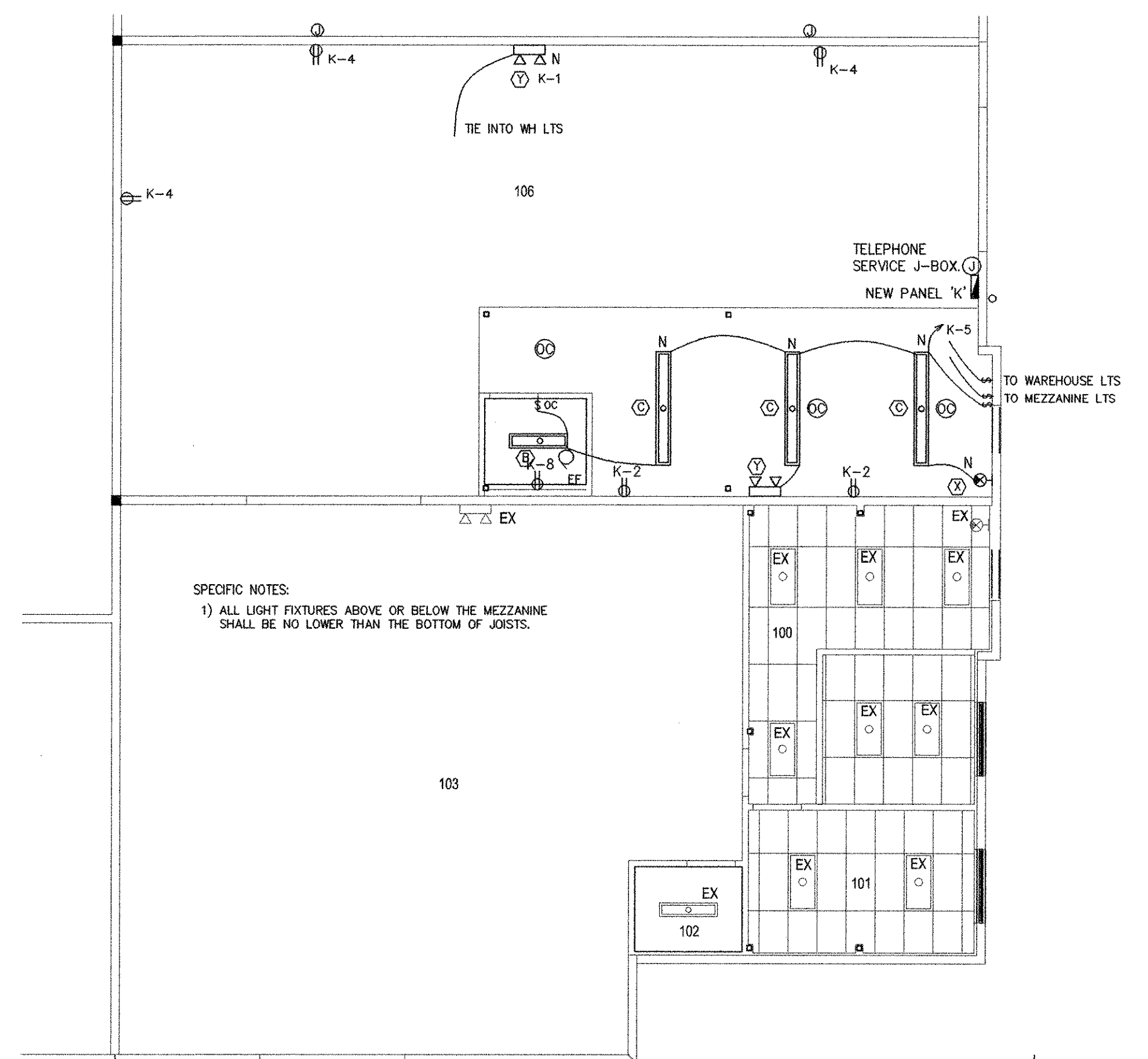
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Tenant Improvement for:  
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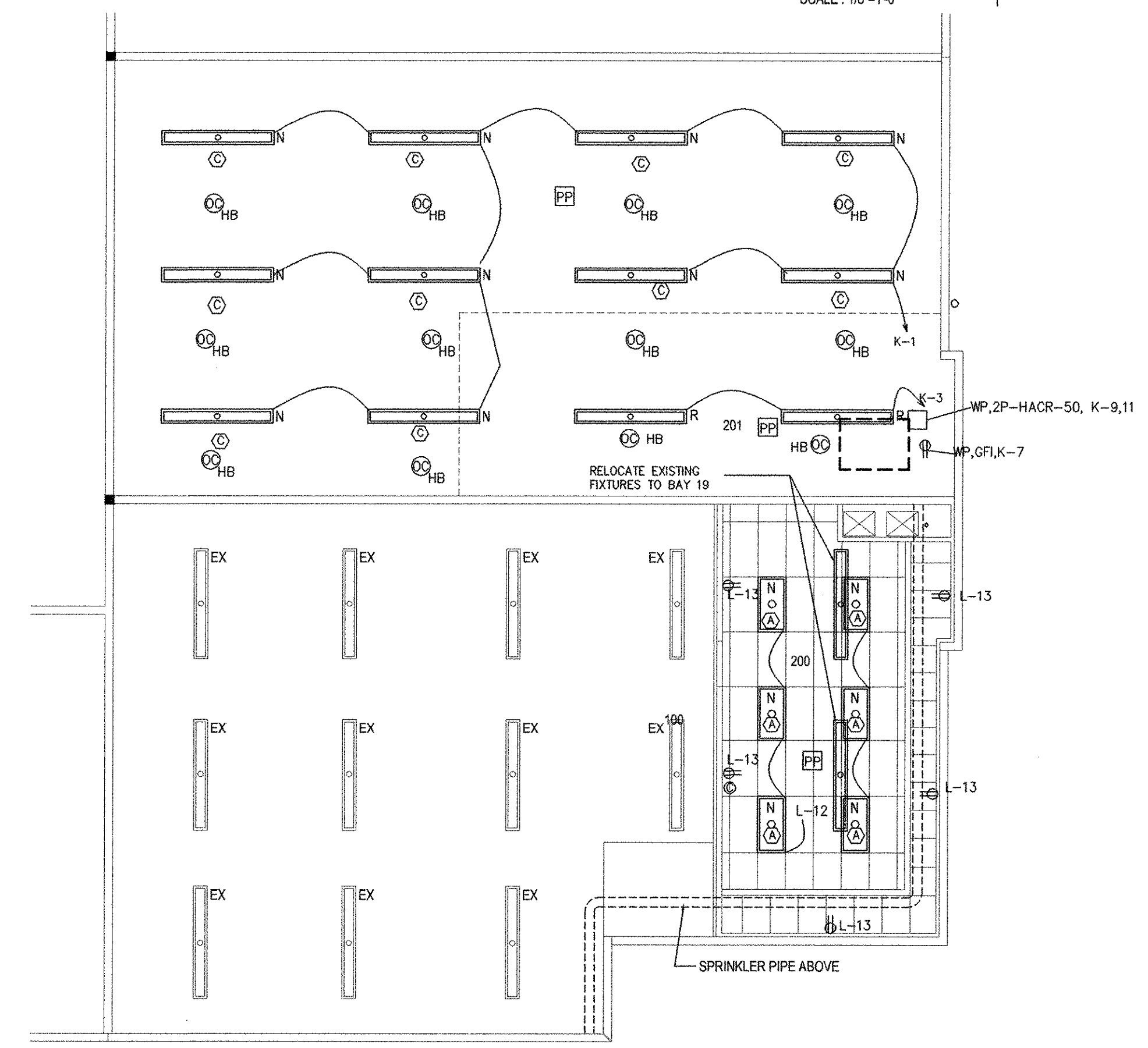
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**LIGHTING & POWER PLAN LOWER LEVEL**



**LIGHTING & POWER PLAN UPPER LEVEL**

NEW PANEL 'K' BAY 19													
120/208 VOLTS 3 PHASE 4 WIRE 200 AMP BUS 42 BRANCH POLES X FULL NEUTRAL			SURFACE MOUNTING 200 AMP MAIN LUGS SHORT CIRCUIT I <sup>2</sup> 22,000 AMP-SYM-RMS										
COND. & WIRE	AMPS			LOAD			BKR			LOAD			COND. & WIRE
	A	B	C	F	A	T	F	A	T	F	A	T	
1/2" #12	11			LIGHTING WAREHOUSE	1	20	1	2	1	20	RECEPTACLES OFFICE	6	1/2" #12
1/2" #10	3			MEZZANINE							WAREHOUSE	5	
1/2" #12	6			ENTRY UNDER MEZZ							MEZZANINE	6	
1/2" #10	3			ROOF RECEPTACLE	1	20	7	19			GFI TOILET	3	1/2" #10
3/4" #8	40			ROOFTOP A/C	2	50	9	10			EWC	5	1/2" #12
				BAY 20 MEZZ OFFICE	1	1	11	12			DUCT SMOKE DETECTOR	3	
				SPACE			13	14			SPACE		
							15	16					
							17	18					
							19	20					
							21	22					
							23	24					
							25	26					
							27	28					
							29	30					
							31	32					
							33	34					
							35	36					
							37	38					
							39	40					
							41	42					
TOTAL AMPS			BUS A= 33			BUS B= 53			BUS C= 55			CONNECTED KVA=	

EXISTING PANEL 'L' BAY 20															
120/208 VOLTS 3 PHASE 4 WIRE 200 AMP BUS 42 BRANCH POLES X FULL NEUTRAL			SURFACE MOUNTING 200 AMP MAIN LUGS SHORT CIRCUIT I <sup>2</sup> 22,000 AMP-SYM-RMS												
COND. & WIRE	AMPS			LOAD			BKR			LOAD			COND. & WIRE		
	A	B	C	F	A	T	F	A	T	F	A	T			
EXISTING	9			RECEPTACLES	EXTG	1	20	1	2	1	20	OFFICE LIGHTING	EXTG	9	EXISTING
				WAREHOUSE								WAREHOUSE LIGHTING		6	
				RECEPTACLE EWC								ROOFTOP UNIT		39	
				RESTROOM										39	
				ROOF MEZZANINE								MEZZANINE OFFICE LTD		6	1/2" #12
1/2" #12	9			RECEPTACLES MEZZ OFFICE	1	20	13	14			SPACE				
				SPACE			15	16							
							17	18							
							19	20							
							21	22							
							23	24							
							25	26							
							27	28							
							29	30							
							31	32							
							33	34							
							35	36							
							37	38							
							39	40							
							41	42							
TOTAL AMPS			BUS A=72			BUS B=56			BUS C=25			CONNECTED KVA=			

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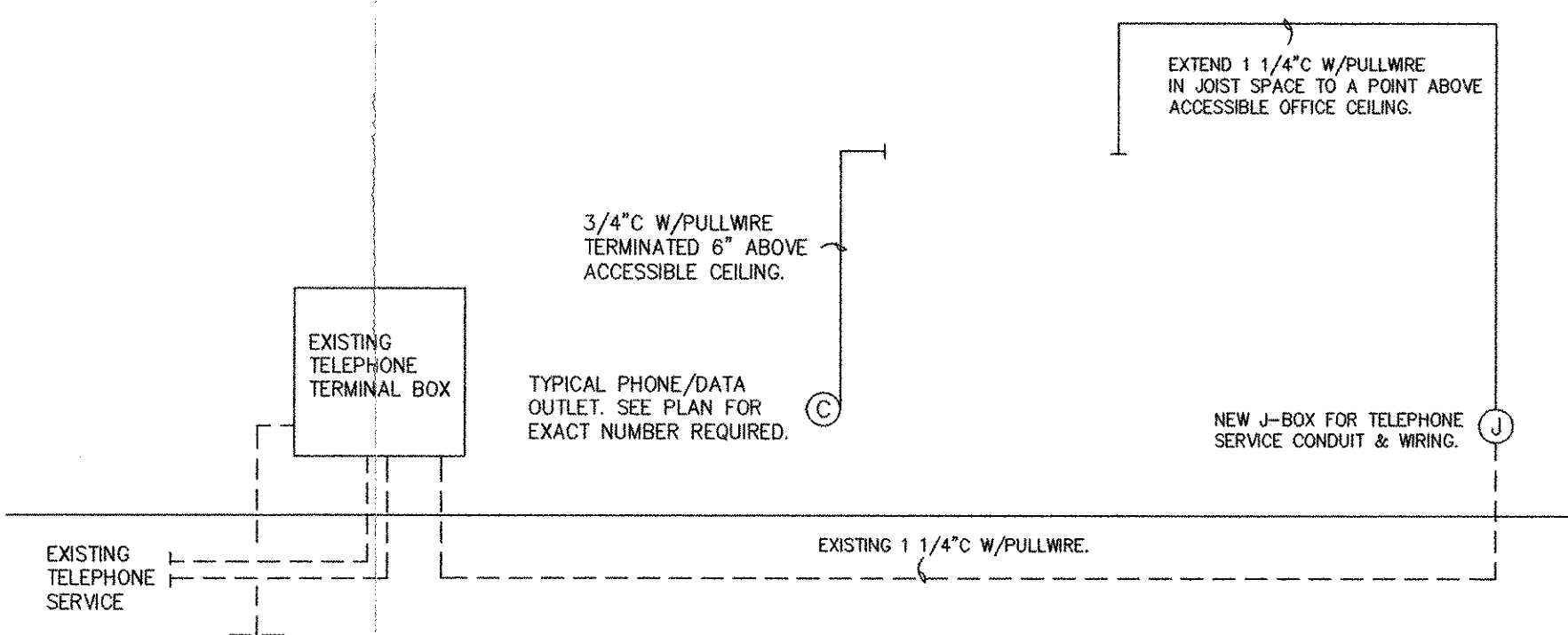
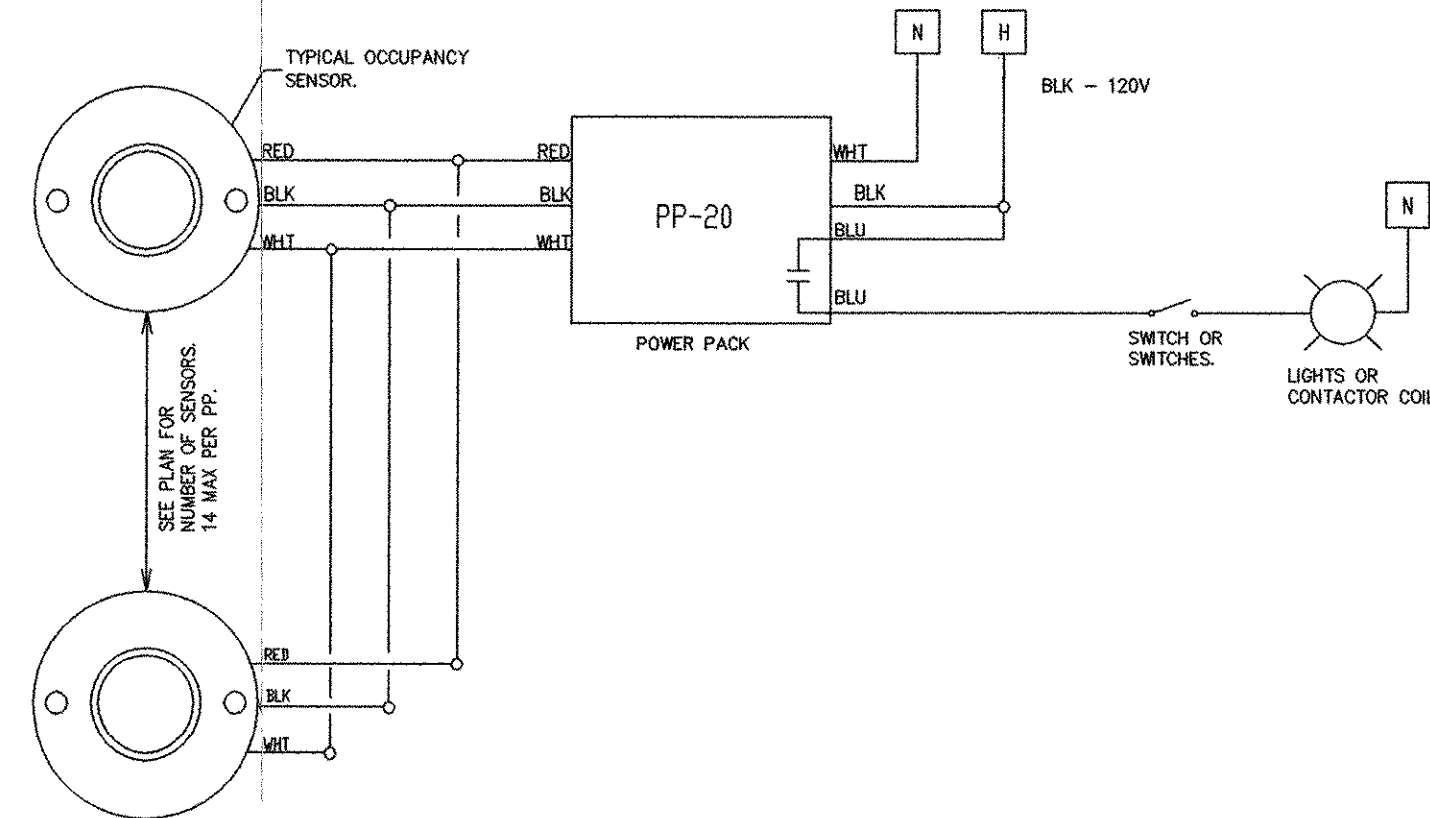


**ELECTRICAL NOTES:**

- 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
- 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 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
- 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 TYPEWRITTEN DIRECTORIES.
- 17.ALL ELECTRICAL AND TELEPHONE/DATE 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 CONCENTRIC HOLES.AIC 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 FPL 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.

- 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%.

**LOW VOLTAGE SENSOR(S) WIRING DIAGRAM NTS**



**TELEPHONE RISER DIAGRAM NTS**

**OCCUPANCY SENSOR DEVICE SCHEDULE**

- MANUFACTURED BY SENSOR SWITCH.
- \$oc WALL SWITCH W/OCCUPANCY SENSOR & BUILT IN POWER PACK SENSOR SWITCH #WSD-PDT-WHITE
  - OB HIGH BAY OCCUPANCY SENSOR TO CONTROL THE POWER PACK. SENSOR SWITCH #CM-6-PDT (WHITE).
  - PP 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.
  - OC LOW CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL THE POWER PACK. SENSOR SWITCH #CM-9-PDT(WHITE).

**LIGHTING FIXTURE SCHEDULE**

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	REMARKS
A	DAYBRITE	2T08332-01-120-1/3-EB	(3)F32 T8	2X4 RECESSED TROFFER, PRISMATIC ACRYLIC LENS, GRID CEILING MOUNT.
B	DAYBRITE	1T232-01-120-1/2-EB	(2)F32 T8	1X4 RECESSED TROFFER, PRISMATIC ACRYLIC LENS, FLANGE CEILING MOUNT.
C	DAYBRITE	TCAN/CS-4-32WT8-1/4	(4)32W T8	W/STEM MOUNTING HANGING ATACHMENTS. VERIFY FIXTURE MATCHES EXISTING.
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.

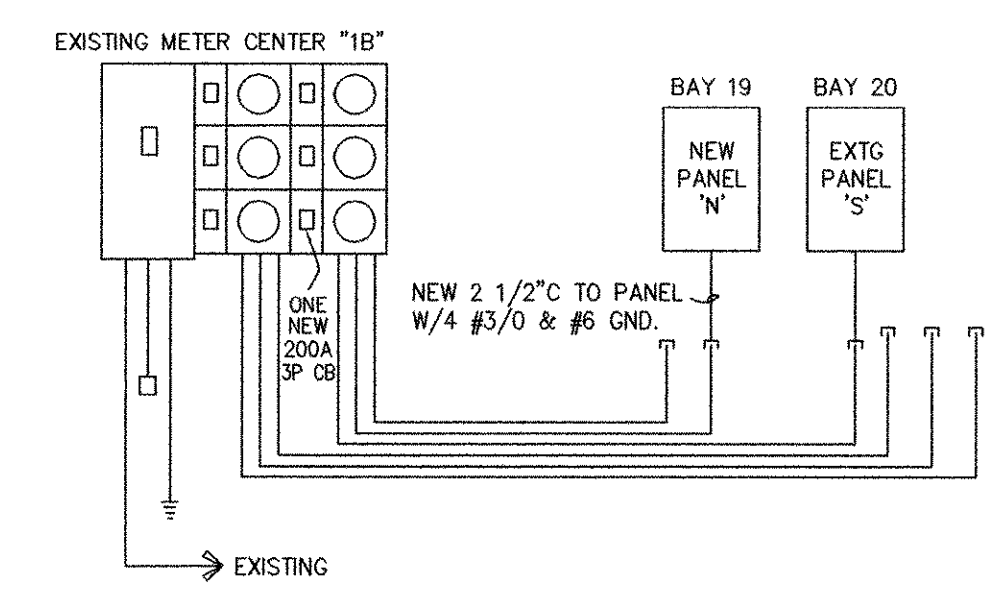
**LIGHTING POWER CALCULATION**

SPACE	AREA (SQFT)	LPD (W/SQFT)	ALLOWABLE (W)	DESIGN (W)
OFFICES-MEZZ BAY 20	495	1.1	544.5	576
MEZZ-STORAGE BAY 19	465	0.9	418.5	256
TOILET BAY 19	51	0.9	45.9	64
WAREHOUSE BAY 19	1865	1.4	2611.0	1280
<b>TOTAL</b>	<b>2876</b>		<b>3619.9</b>	<b>2176</b>

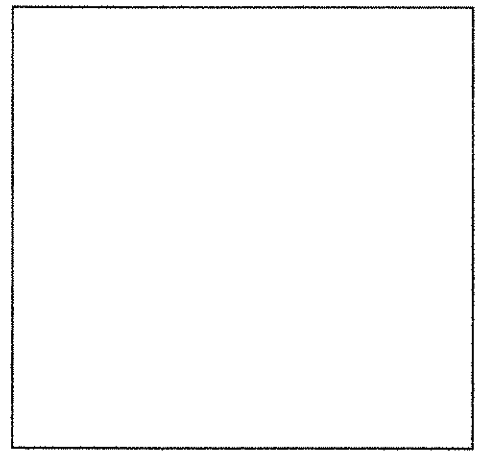
THE DESIGN WATTAGE OF 2176 W IS LESS THAN THE ALLOWABLE WATTAGE OF 3619.9 W. LIGHTING POWER CALCULATION AS PER FBC 13-415.B.1 (SPACE BY SPACE METHOD)

**ELECTRICAL LEGEND:**

- RECESSED FLUORESCENT.
- 8 FT STEM-MOUNTED FLUORESCENT.
- EXIT LIGHT.
- EMERGENCY LIGHT.
- LIGHT FIXTURE TYPE DESIGNATION.
- DUPLEX RECEPTACLE.
- QUAD-PLEX RECEPTACLE.
- JUNCTION BOX. 4" SQUARE UNLESS NOTED.
- 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.
- NEW FIXTURE
- EXISTING FIXTURE
- RELOCATED FIXTURE



**ELECTRICAL RISER DIAGRAM NTS**



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