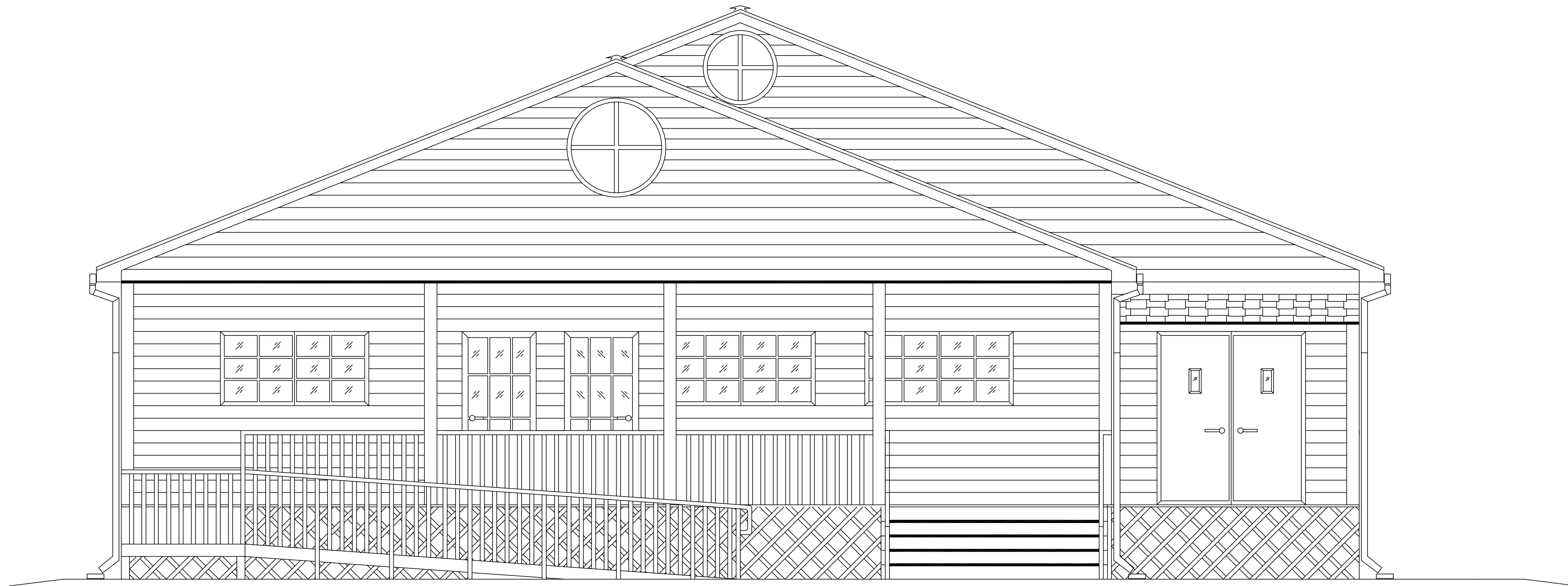
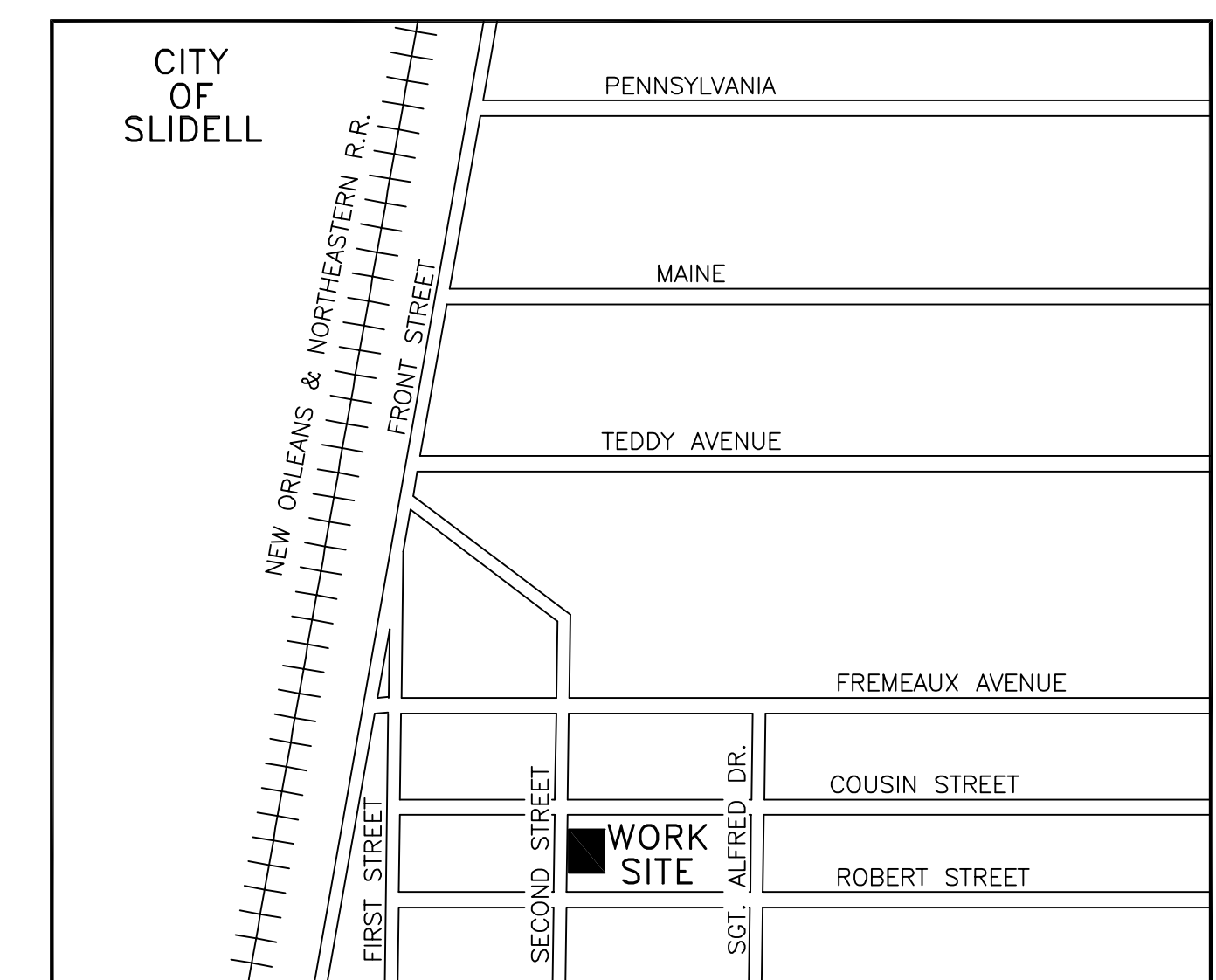


# COMMUNITY CHRISTIAN CONCERN



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E-2	REFLECTED CEILING PLAN
M-1	MECHANICAL PLAN
P-1	PLUMBING PLAN

2228 SECOND STREET  
SLIDELL, LOUISIANA

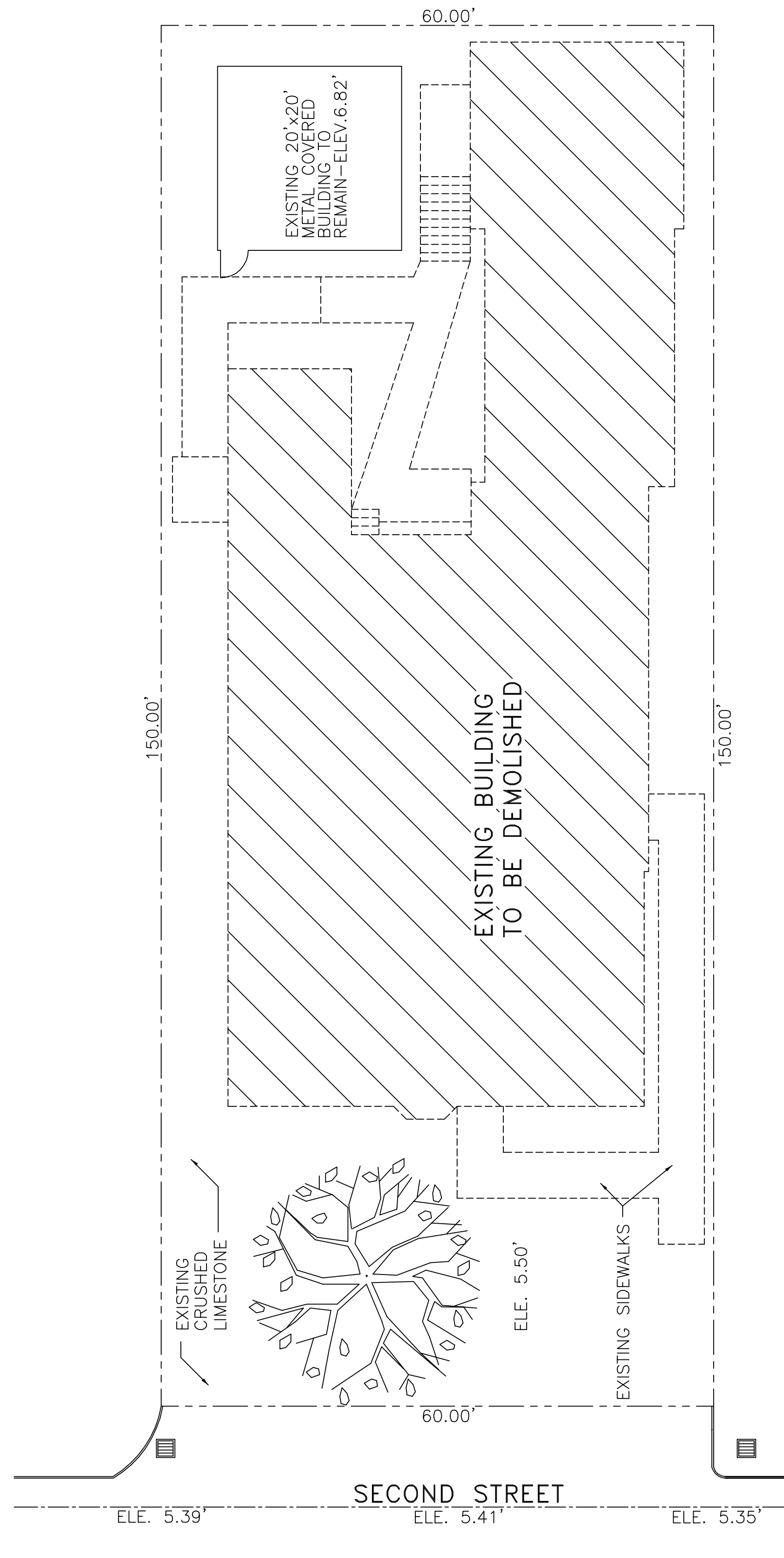


VICINITY MAP  
N.T.S.

*D*AMMON ENGINEERING. INC.  
ARCHITECTS — ENGINEERS

2000 OLD SPANISH TRAIL STE. 100  
WEB-DAMMONENGINEERING.COM

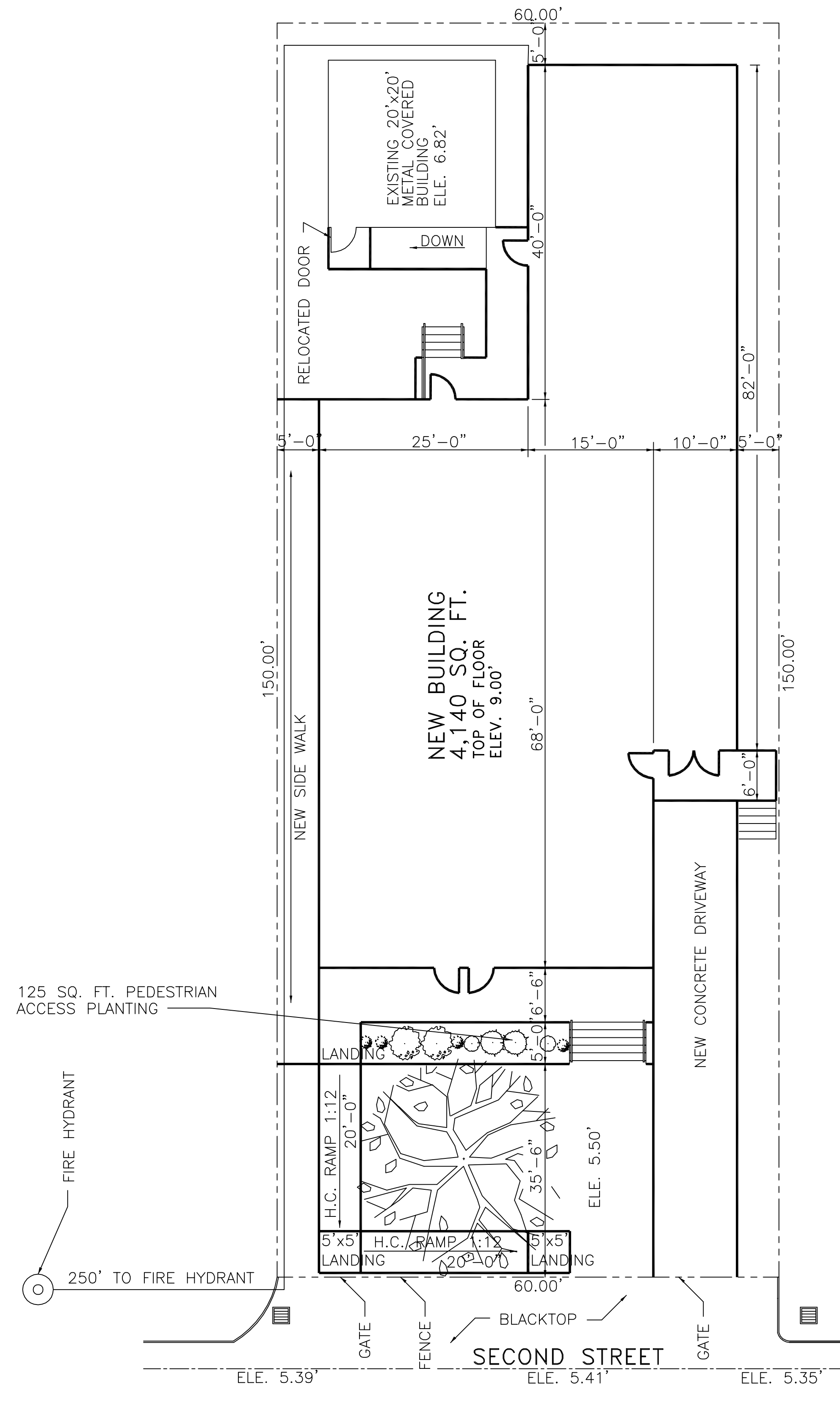
985-649-5832 SLIDELL, LA. 70458  
E-MAIL--DAMMON@MAILCITY.COM



**DEMOLITION PLAN**  
SCALE: 1"=10'

**DEMOLITION NOTES:**

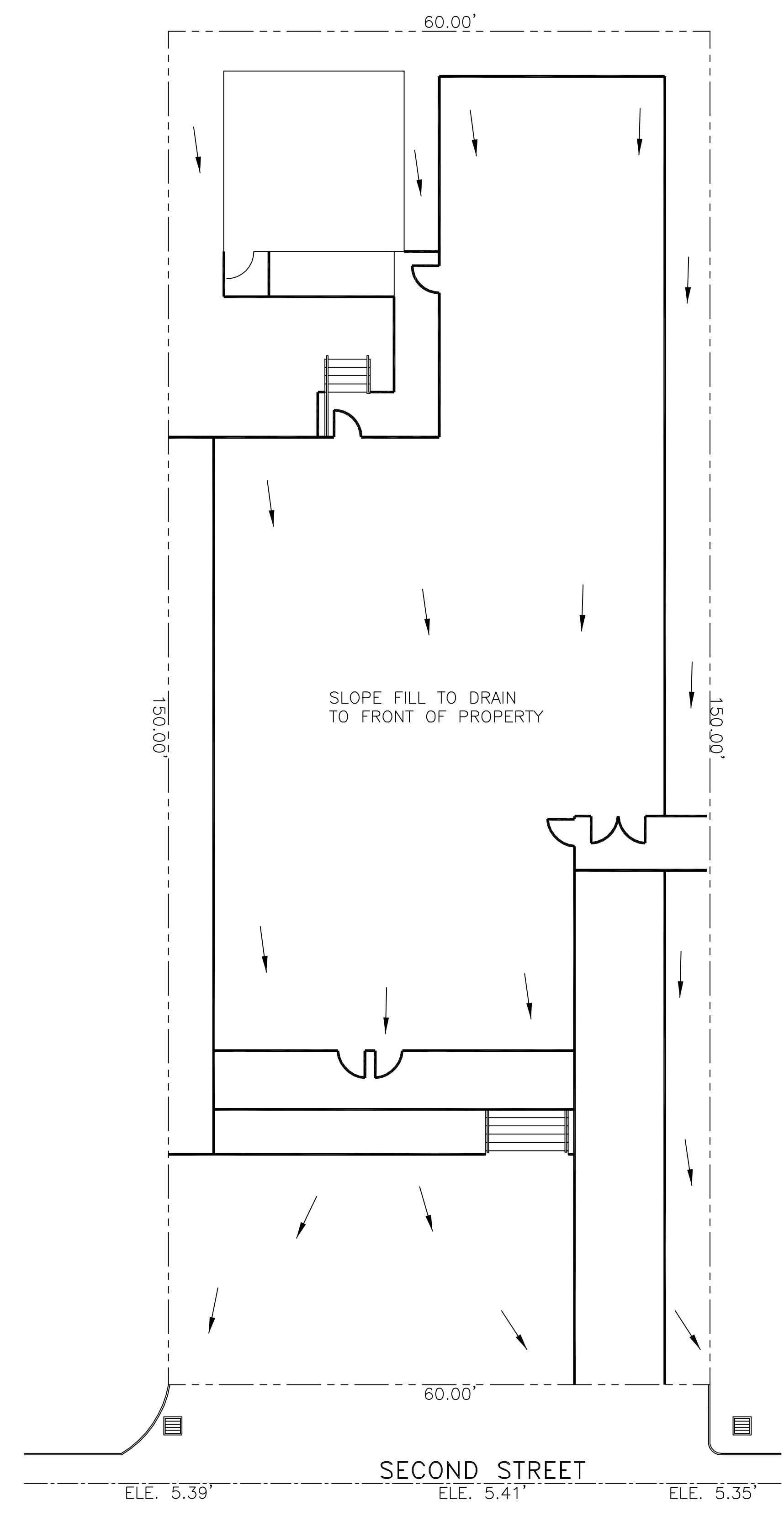
1. TAKE SPECIAL PRECAUTIONS TO PRESERVE THE EXISTING OAK TREE IN FRONT YARD.
2. TAPE OFF AREA TO PREVENT PARKING/STORING ON ROOTS.
3. AREA IN PARKING LOT ACROSS STREET MAY BE USED FOR STAGING.
4. REMOVE ALL EXISTING SIDEWALKS.



**SITE PLAN**  
SCALE: 1"=10'

**LEGEND**

- - - - - EXISTING
- PROPERTY LINE
- NEW
- ▣ EXISTING CATCH BASIN
- FIRE HYDRANT
- DIRECTION OF WATER FLOW



**DRAINAGE SITE PLAN**  
SCALE: 1"=10'

F.I.R.M. 220204 0010C  
ZONE AE B.F.E. 9'-0" DATED 4-21-99  
TOPOGRAPHICAL SURVEY OF LOT 6  
SQUARE 19-ROBERT ADDITION  
CITY OF SLIDELL  
ST. TAMMANY PARISH, LOUISIANA

SITE PLAN

CCC  
2228 SECOND STREET  
SLIDELL, LOUISIANA

COMMUNITY CHRISTIAN CONCERN

**DAMMON ENGINEERING, INC.**  
ARCHITECTS - ENGINEERS  
2000 OLD SPANISH TRAIL, STE 100 985-649-5832 SLIDELL, LA. 70458  
DAMMONENGINEERING.COM

SCALE: AS NOTED

FILE:

JOB NO. 1461

DATE: 7-14-03

SHEET

C - 1

OF

**4.6 PARKING AND PASSENGER LOADING ZONES.**

**4.6.1 MINIMUM NUMBER.** PARKING SPACES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.6.2 THROUGH 4.6.4. PASSENGER LOADING ZONES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.6.5 AND 4.6.6.

**4.6.2 LOCATION.** ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE BUILDING, ACCESSIBLE ENTRANCES WITH ADJACENT PARKING, ADJACENT PARKING SPACES SHALL BE DISPERSED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES.

**4.6.3\* PARKING SPACES.** PARKING SPACES FOR DISABLED PEOPLE SHALL BE AT LEAST 96" (2440 mm) WIDE AND SHALL HAVE AN ADJACENT ACCESS ASLE 60" (1525 mm) WIDE MINIMUM. PARKING ACCESS ASLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE AND SHALL COMPLY WITH 4.3. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS ASLE. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE CIRCULATION ROUTE. PARKING SPACES AND ACCESS ASLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

**EXCEPTION:** IF ACCESSIBLE PARKING SPACES FOR VANS DESIGNED FOR HANDICAPPED PERSONS ARE PROVIDED, EACH SHOULD HAVE AN ADJACENT ACCESS ASLE AT LEAST 96" (2440mm) WIDE COMPLYING WITH 4.5, GROUND AND FLOOR SURFACES.

**4.6.4\* SIGNAGE.** ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR THE DISABLED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY (SEE 4.30.5). SUCH SIGNS SHALL NOT BE OCCUPIED BY A VEHICLE PARKED IN THE SPACE.

**4.6.5 PASSENGER LOADING ZONES.** PASSENGER LOADING ZONES SHALL PROVIDE AN ACCESS ASLE AT LEAST 60" (1525mm) WIDE AND 20" (510 mm) LONG ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACE (SEE FIG. 10). IF THERE ARE CURBS BETWEEN THE ACCESS ASLE AND THE VEHICLE PULL-UP SPACE, THEN A CURB RAMP COMPLYING WITH 4.7 SHALL BE PROVIDED. VEHICLE STANDING SPACES AND ACCESS ASLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

**4.6.6 VERTICAL CLEARANCE.** PASSENGER LOADING ZONES SHALL PROVIDE AN ACCESS ASLE AT LEAST 60" (1525mm) WIDE AND 240" (6100mm) LONG ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACE (SEE FIG. 10). IF THERE ARE CURBS BETWEEN THE ACCESS ASLE AND THE VEHICLE PULL-UP SPACE, THEN A CURB RAMP COMPLYING WITH 4.7 SHALL BE PROVIDED. VEHICLE STANDING SPACES AND ACCESS ASLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.

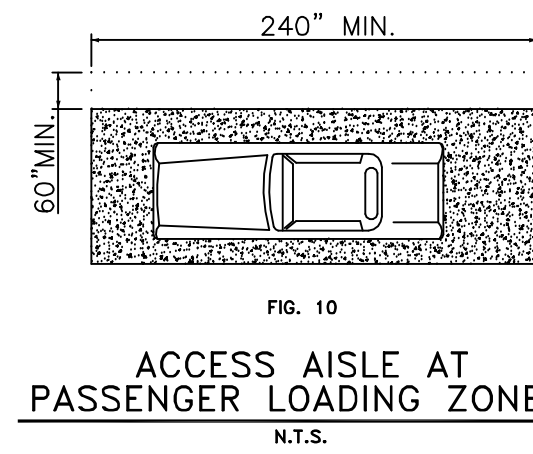


FIG. 10  
**ACCESS ASLE AT PASSENGER LOADING ZONES**  
N.T.S.

IF X IS LESS THAN 48", THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12.

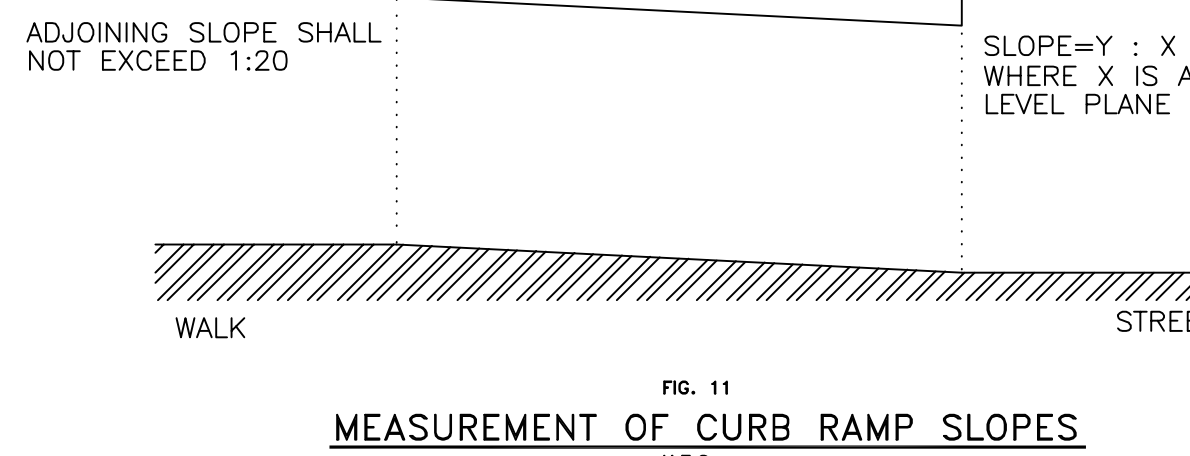
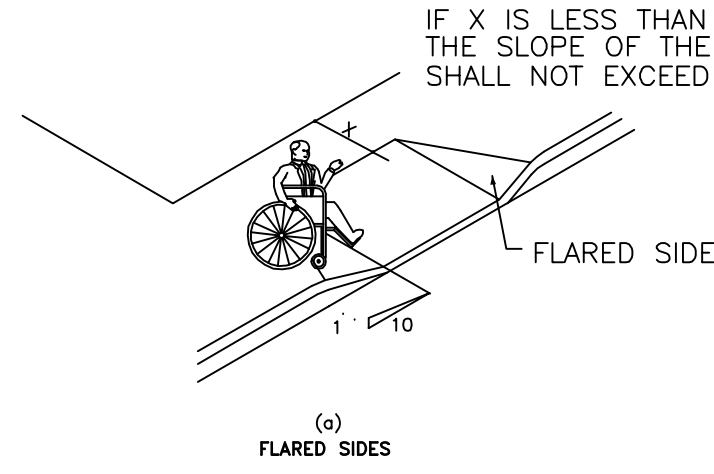


FIG. 11  
**MEASUREMENT OF CURB RAMP SLOPES**  
N.T.S.

FIG. 13  
**BUILT-UP CURB RAMP**  
N.T.S.

FIG. 12  
**SIDES OF CURB RAMP**  
N.T.S.

**4.7 CURB RAMPS.**

**4.7.1 LOCATION.** CURB RAMPS COMPLYING WITH 4.7 SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.

**4.7.2 SLOPE.** SLOPES OF CURB RAMPS SHALL COMPLY WITH 4.8.2. THE SLOPE SHALL BE MEASURED AS SHOWN IN FIG. 11. TRANSITIONS FROM RAMPS TO SIDEWALKS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING CUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20.

**4.7.3 WIDTH.** THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36", EXCLUSIVE OF FLARED SIDES.

**4.7.4 SURFACE.** SURFACES OF CURB RAMPS SHALL COMPLY WITH 4.5.

**4.7.5 SIDES OF CURB RAMPS.** IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, THEN IT SHALL HAVE FLARED SIDES. THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10 (SEE FIG. 12(c)). CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WALK NOT NORMALLY WALK ACROSS THE RAMP (SEE FIG. 12(c)).

**4.7.6 BUILT-UP CURB RAMPS.** BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES (SEE FIG. 13).

**4.7.7 WARNING TEXTURES.** (REMOVED AND RESERVED).

**4.7.8 OBSTRUCTIONS.** CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.

**4.7.9 LOCATION AT MARKED CROSSINGS.** CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.

**4.7.10 DIAGONAL CURB RAMPS.** IF DIAGONAL (OR CORNER TYPE) CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL-DEFINED EDGES, PEDESTRIAN FLOW SHALL BE INDICATED BY THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS. THE 48" (1220mm) CLEAR WIDTH SHALL BE MAINTAINED THROUGHOUT. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24" (610mm) LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

**4.7.11 ISLANDS.** ANY RAISED ISLANDS IN CROSSING SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. STAIR RAMP AREA AT LEAST 48" (1200mm) LONG IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS.

**4.7.12 UNCURBED INTERSECTIONS.** (REMOVED AND RESERVED).

**4.8 RAMPS.**

**4.8.1\* GENERAL.** ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP AND SHALL COMPLY WITH 4.8.

**4.8.2\* SLOPE & RISE.** THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30" (760mm). CURB RAMPS AND RAMPS TO BE CONSTRUCTED ON EXISTING SITES OR IN EXISTING BUILDINGS OR FACILITIES MAY HAVE SLOPES AND RISE AS SHOWN IN TABLE 2. IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS (SEE 4.1.6).

**4.8.3 CLEAR WIDTHS.** THE MINIMUM CLEAR WIDTH OF A RAMP SHALL BE 36" (915mm).

**4.8.4 LANDINGS.** RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RUN. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:

- (1) THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.
- (2) THE LANDING LENGTH SHALL BE A MINIMUM OF 60" (1525mm) CLEAR.
- (3) IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60" BY 60" (1525mm) BY (1525mm).
- (4) IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.13.6.

**4.8.5\* HANDRAILS.** IF A RAMP HAS A RISE GREATER THAN 6" (250mm) OR A HORIZONTAL PROJECTION GREATER THAN 72" (1830mm) THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS SHALL REQUIRE THE FOLLOWING FEATURES:

- (1) HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGGED RAMPS SHALL ALWAYS BE CONTINUOUS.
- (2) IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305mm) BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
- (3) THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1-1/2" (38mm).
- (4) GRIPPING SURFACES SHALL BE CONTINUOUS.
- (5) TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 30" & 34" (760 mm & 865mm) ABOVE RAMP SURFACES.
- (6) ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
- (7) HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

**4.8.6 CROSS SLOPE & SURFACES.** THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50. RAMP SURFACES SHALL COMPLY WITH 4.5.

**4.8.7 EDGE PROTECTION.** RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS, OR PROJECTING SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. CURBS SHALL BE A MINIMUM OF 2" (50mm) HIGH (SEE FIG. 17).

**4.8.8 OUTDOOR CONDITIONS.** OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

**4.9 STAIRS.**

**4.9.1 MINIMUM NUMBER.** STAIRS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.9.

**4.9.2 TREADS & RISERS.** ON ANY GIVEN FLIGHT OF STAIRS, ALL STEPS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS. STAIR TREADS SHALL BE NO LESS THAN 11" (280mm) WIDE, MEASURED FROM RISER TO RISER (SEE FIG. 16(a)). OPEN RISERS ARE NOT PERMITTED ON ACCESSIBLE ROUTES.

**4.9.3 NOSINGS.** THE UNDERSIDES OF NOSINGS SHALL NOT BE ABRUPT. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE NOSING SHALL BE AT LEAST 1/4" (6mm). RISERS SHALL BE SLOPED OR THE UNDERSIDE OF THE NOSING SHALL HAVE AN ANGLE NOT LESS THAN 60 DEGREES FROM THE HORIZONTAL. NOSINGS SHALL PROJECT NO MORE THAN 1-1/2" (38mm) (SEE FIG. 18).

**4.9.4 HANDRAILS.** STAIRWAYS SHALL HAVE HANDRAILS AT BOTH SIDES OF ALL STAIRS. HANDRAILS SHALL COMPLY WITH 4.26 AND SHALL HAVE THE FOLLOWING FEATURES:

- (1) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES OF STAIRS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGGED STAIRS SHALL ALWAYS BE CONTINUOUS (SEE FIG. 19(a) & (b)).
- (2) IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305mm) PLUS THE WIDTH OF ONE TREAD FROM THE BOTTOM RISER. AT THE TOP, THE EXTENSION SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE. AT THE BOTTOM, THE HANDRAIL SHALL CONTINUE TO MORE DISTANCE OF ONE TREAD FROM THE BOTTOM RISER. THE REMAINDER OF THE EXTENSION SHALL BE HORIZONTAL. (SEE FIG. 19(c) & (d)). HANDRAIL EXTENSIONS SHALL COMPLY WITH 4.4.
- (3) THE CLEAR SPACE BETWEEN HANDRAILS AND WALLS SHALL BE 1-1/2" (38mm).
- (4) GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEVEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.
- (5) TOP OF HANDRAIL GRIPPING SURFACE SHALL BE MOUNTED BETWEEN 30" & 34" (760mm) & 865mm) ABOVE STAIR NOSINGS.
- (6) ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
- (7) HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

**4.9.5 TACTILE WARNINGS AT STAIRS.** (REMOVED & RESERVED).

**4.9.6 OUTDOOR CONDITIONS.** OUTDOOR STAIRS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

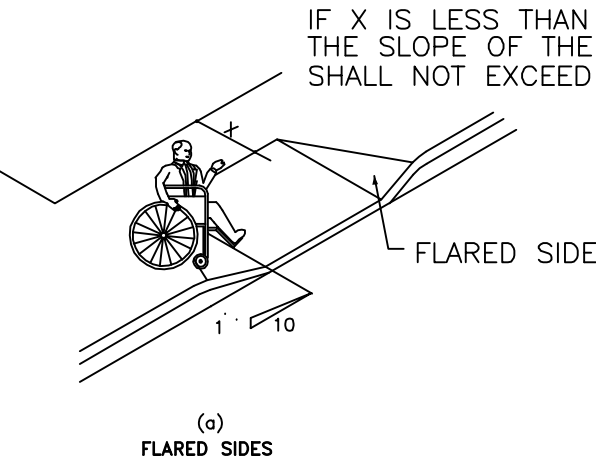


FIG. 12  
**SIDES OF CURB RAMPS**  
N.T.S.

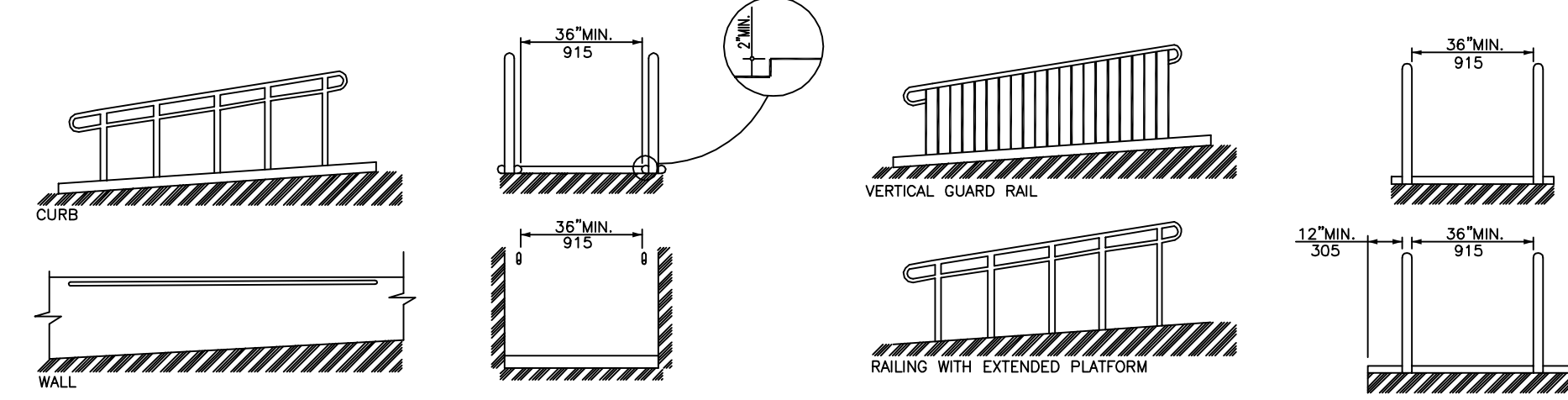


FIG. 17

FIG. 17  
**EXAMPLES OF EDGE PROTECTION AND HANDRAIL EXTENSIONS**  
N.T.S.

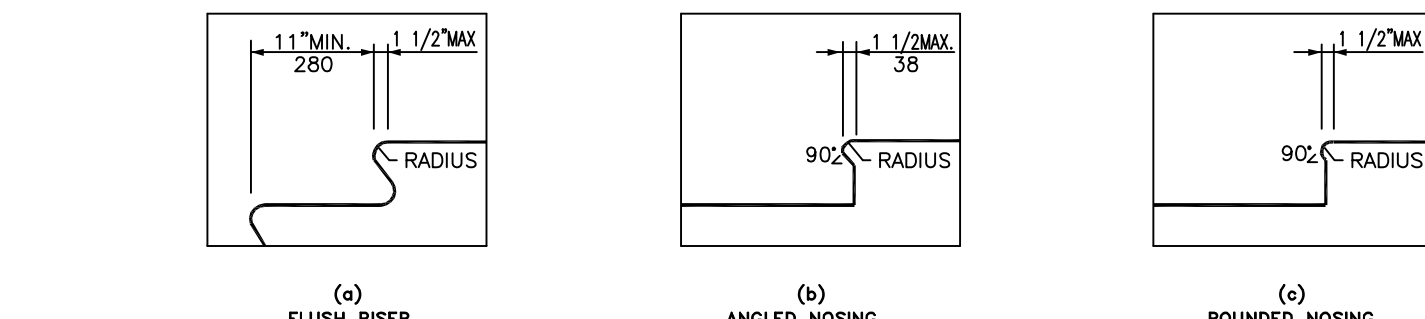
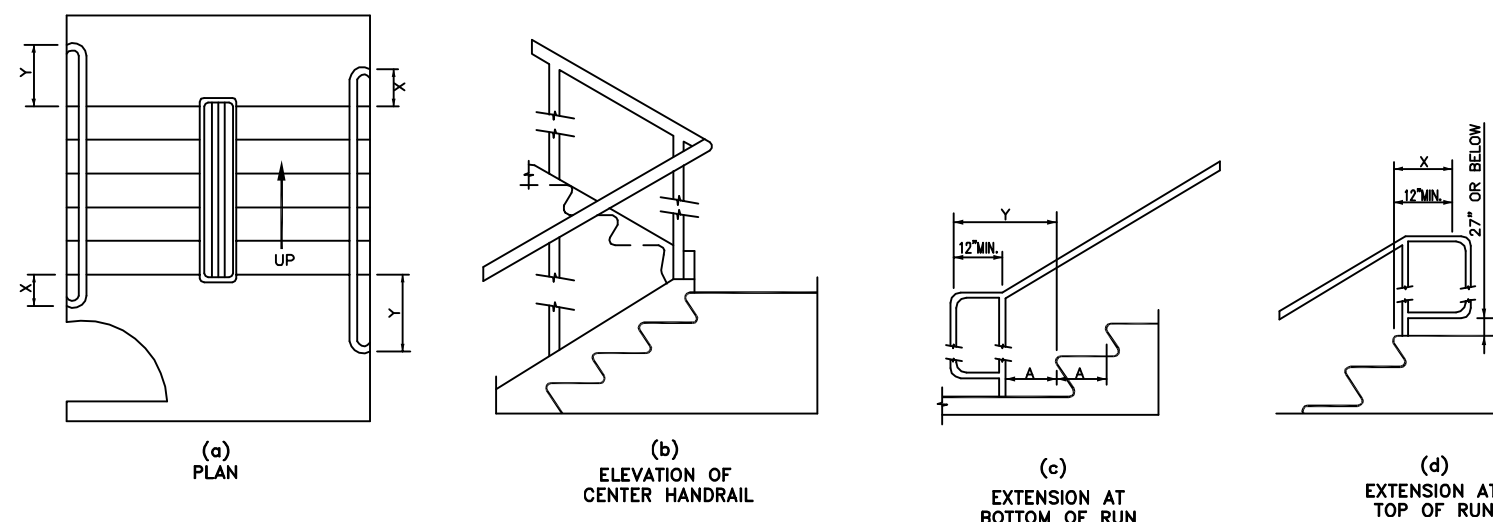


FIG. 18  
**USEABLE TREAD WIDTH AND EXAMPLES OF ACCEPTABLE NOSINGS**  
N.T.S.



NOTE:

X IS THE 12" MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER.  
Y IS THE MINIMUM HANDRAIL EXTENSION OF 12" PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER

FIG. 19  
**STAIR HANDRAILS**  
N.T.S.

**4.10 ELEVATORS.**

**4.10.1 GENERAL.** ACCESSIBLE ELEVATORS SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.10 AND WITH THE ASME A17.1-1996. SAFETY CODE FOR ELEVATORS AND ESCALATORS. FREIGHT ELEVATORS SHALL NOT BE CONSIDERED AS MEETING THE REQUIREMENTS OF THIS SECTION UNLESS THE ONLY ELEVATORS PROVIDED ARE USED AS COMBINATION PASSENGER AND FREIGHT ELEVATORS FOR THE PUBLIC AND EMPLOYEES.

**4.10.2 AUTOMATIC OPERATION.** ELEVATOR OPERATION SHALL BE AUTOMATIC. EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING THE CAR TO FLOOR LANDINGS WITHIN A TOLERANCE OF 1/2" (13mm) UNDER RATED LOADING ZERO TO LOADING CONDITIONS. THIS SELF-LEVELING FEATURE SHALL BE AUTOMATIC AND INDEPENDENT OF THE OPERATING DEVICE AND SHALL CORRECT THE OVERTRAVEL OR UNDERTRAVEL.

**4.10.3 HALL CALL BUTTONS.** CALL BUTTONS IN ELEVATOR LOBBIES AND HALLS SHALL BE CENTERED AT 42" (1065mm) ABOVE THE FLOOR. SUCH CALL BUTTONS SHALL HAVE VISUAL SIGNALS TO INDICATE WHICH CAR IS ANSWERING A CALL. AUDIBLE SIGNALS SHALL BE PROVIDED. CALL BUTTONS SHALL BE A MINIMUM OF 5/8" (16mm) IN THE SMALLEST DIMENSION. THE BOTTOM EDGE OF THE CALL BUTTON SHALL BE AT LEAST 2" (51mm) ABOVE THE FLOOR. CALL BUTTONS SHALL BE A MINIMUM OF 3/4" (19mm) IN THE SMALLEST DIMENSION. THE BOTTOM EDGE OF THE CALL BUTTON SHALL NOT PROJECT INTO THE ELEVATOR LOBBY MORE THAN 4" (100mm).

**4.10.4 HALL LANTERNS.** A VISIBLE AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE TO INDICATE WHICH CAR IS ANSWERING A CALL. AUDIBLE SIGNALS SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION OR SHALL HAVE VERBAL ANNUNCIATORS THAT SAY "UP" OR "DOWN". VISIBLE SIGNALS SHALL HAVE THE FOLLOWING FEATURES:

- (1) HALL LANTERN FIXTURES SHALL BE MOUNTED SO THAT THEIR CENTERLINE IS AT LEAST 2 1/2" (64mm) IN THE SMALLEST DIMENSION.
- (2) VISUAL ELEMENTS SHALL BE AT LEAST 2-1/2" (64mm) IN THE SMALLEST DIMENSION.
- (3) SIGNALS SHALL BE VISIBLE FROM THE VICINITY OF THE HALL CALL BUTTON. IN-CAR LANTERNS LOCATED IN CARS, VISIBLE FROM THE VICINITY OF HALL CALL BUTTONS, AND CONFORMING TO THE ABOVE REQUIREMENTS, SHALL BE ACCEPTABLE.

**4.10.5 RAISED & BRAILLE CHARACTERS ON HOISTWAY ENTRANCES.** ALL ELEVATOR HOISTWAY ENTRANCES SHALL HAVE RAISED AND BRAILLE FLOOR DESIGNATIONS PROVIDED ON BOTH JAMBS. THE CENTERING OF THE CHARACTERS SHALL BE 60" (1525mm) ABOVE FINISH FLOOR. SUCH CHARACTERS SHALL BE 2" (50mm) HIGH AND SHALL COMPLY WITH 4.30.4. PERMANENTLY APPLIED PLATES ARE ACCEPTABLE IF THEY ARE PERMANENTLY FIXED TO THE JAMBS.

**4.10.6\* DOOR PROTECTIVE REOPENING DEVICE.** ELEVATOR DOORS SHALL OPEN AND CLOSE AUTOMATICALLY. THEY SHALL BE PROVIDED WITH A REOPENING DEVICE THAT WILL STOP AND REOPEN A CAR DOOR AND HOISTWAY DOOR AUTOMATICALLY IF THE DOOR BECOMES OBSTRUCTED BY AN OBJECT OR PERSON. THE DEVICE SHALL BE CAPABLE OF COMPLETING THESE OPERATIONS WITHOUT REQUIRING CONTACT FOR AN OBSTRUCTION PASSING THROUGH THE OPENING AT HEIGHTS OF 5" & 29" (125mm & 735mm) ABOVE FINISH FLOOR. DOOR REOPENING DEVICES SHALL REMAIN EFFECTIVE FOR AT LEAST 20 SECONDS. AFTER SUCH AN INTERVAL, DOORS MAY CLOSE IN ACCORDANCE WITH THE REQUIREMENTS OF ASME A17.1-1996.

**4.10.7\* DOOR & SIGNAL TINGING FOR HALL CALLS.** THE MINIMUM ACCEPTABLE TIME FROM NOTIFICATION THAT A CAR IS ANSWERING TO THE TIME THAT THE CAR STARTS TO CLOSE SHALL BE CALCULATED FROM THE FOLLOWING EQUATION:

$$T = D / (1.5 \cdot S) \text{ OR } T = D / (445 \text{ mm} / \text{s})$$

WHERE T IS TOTAL TIME IN SECONDS AND D IS DISTANCE (IN FEET OR MILLIMETERS) FROM A POINT IN THE LOBBY OR CORRIDOR 60" (1525mm) DIRECTLY IN FRONT OF THE FARTHEST CALL BUTTON TO THE CENTERLINE OF THE HOISTWAY DOOR. FOR CARS WITH IN-CAR LANTERN FIXTURES WHEN THE LANTERN IS VISIBLE FROM THE VICINITY OF HALL CALL BUTTONS, SUCH A VARIABLE SIGNAL IS SOUNDING. THE MINIMUM ACCEPTABLE NOTIFICATION TIME SHALL BE 5 SECONDS.

**4.10.8 DOOR DELAY FOR CAR CALLS.** THE MINIMUM TIME FOR ELEVATOR DOORS TO REMAIN FULLY OPEN IN RESPONSE TO A CAR CALL SHALL BE 3 SECONDS.

**4.10.9 FLOOR PLAN OF ELEVATOR CARS.** THE FLOOR AREA OF ELEVATOR CARS SHALL PROVIDE SPACE FOR WHEELCHAIR USERS TO ENTER THE CAR, MANUEVER WITHIN REACH OF CONTROLS, AND EXIT FROM THE CAR. ACCEPTABLE DOOR OPENING AND INSIDE DIMENSIONS SHALL BE AS SHOWN IN FIG. 22. THE CLEARANCE BETWEEN THE CAR PLATFORM SILL AND THE EDGE OF ANY HOISTWAY LANDING SHALL BE NO GREATER THAN 1-1/4" (32mm).

**4.10.11 ILLUMINATION LEVELS.** THE LEVEL OF ILLUMINATION AT THE CAR CONTROLS, PLATFORM, AND CAR THRESHOLD AND LANDING SILL SHALL BE AT LEAST 5 FOOT-CANDELES (53.8 LUX).

**4.10.12\* CAR CONTROLS.** ELEVATOR CONTROL PANELS SHALL HAVE THE FOLLOWING FEATURES:

- (1) BUTTONS. ALL CONTROL BUTTONS SHALL BE AT LEAST 3/4" (19mm) IN THEIR SMALLEST DIMENSION. THEY SHALL BE RAISED OR FLUSH.
- (2) TACTILE, BRAILLE AND VISUAL CONTROL INDICATORS. ALL CONTROL BUTTONS SHALL BE DESIGNATED BY BRAILLE AND BY RAISED STAMPEDED ALPHABET CHARACTERS FOR LETTERS, ARABIC CHARACTERS FOR NUMERALS, OR STANDARD SYMBOLS AS SHOWN IN FIG. 23(c) AND AS REQUIRED BY ASME A17.1-1996. RAISED STAMPEDED NUMERALS SHALL COMPLY WITH 4.30. THE CALL BUTTON FOR THE MAIN ENTRY FLOOR SHALL BE DESIGNATED BY A RAISED STAR AT THE LEFT OF THE FLOOR DESIGNATION (SEE FIG. 23(c)). ALL RAISED DESIGNATIONS FOR CONTROL BUTTONS SHALL BE PLACED IMMEDIATELY TO THE LEFT OF THE BUTTON TO WHICH THEY APPLY. APPLIED PLATES, PERMANENTLY ATTACHED, ARE AN ACCEPTABLE MEANS TO PROVIDE RAISED CONTROL DESIGNATIONS. FLOOR BUTTONS SHALL BE PROVIDED WITH VISUAL INDICATORS TO SHOW WHICH CALL IS REGISTERED. THE VISUAL INDICATORS SHALL BE EXTINGUISHED WHEN EACH CALL IS ANSWERED.
- (3) HEIGHT. ALL FLOOR BUTTONS SHALL BE NO HIGHER THAN 54" (1370mm) ABOVE THE FINISH FLOOR FOR SIDE APPROACH AND 48" (1220mm) FROM FRONT APPROACH. EMERGENCY CONTROLS, INCLUDING THE EMERGENCY ALARM AND EMERGENCY STOP, SHALL BE GROUNDED AT THE BOTTOM OF THE PANEL AND SHALL HAVE THEIR CENTERLINES NO LESS THAN 35" (890mm) ABOVE THE FINISH FLOOR (SEE FIG. 23(a) & (d)).
- (4) LOCATION. CONTROLS SHALL BE LOCATED ON A FRONT WALL IF CARS HAVE CENTER OPENING DOORS AND AT THE SIDE WALL OR AT THE FRONT WALL NEXT TO THE DOOR IF CARS HAVE SIDE OPENING DOORS (SEE FIG. 23(c) & (d)).

**4.10.13\* CAR POSITION INDICATORS.** IN ELEVATOR CARS, A VISUAL CAR POSITION INDICATOR SHALL BE PROVIDED ABOVE THE CAR CONTROL PANEL OR OVER THE DOOR TO SHOW THE POSITION OF THE ELEVATOR IN THE HOISTWAY AS THE CAR PASSES OR STOPS AT A FLOOR SERVED BY THE ELEVATOR. THE CORRESPONDING NUMERALS SHALL ILLUMINATE, AND AN AUDIBLE SIGNAL SHALL SOUND. NUMERALS SHALL BE A MINIMUM OF 1/2" (13mm) HIGH AND SHALL BE IDENTIFIED BY A RAISED SYMBOL AT THE LEFT OF THE FLOOR DESIGNATION (SEE FIG. 23(c)). THE FLOOR NUMBER AT WHICH THE CAR STOPS OR WHICH A CAR PASSES MAY BE SUBSTITUTED FOR AN AUTOMATIC VERBAL ANNOUNCEMENT OF THE AUDIBLE SIGNAL.

**4.10.14\* EMERGENCY COMMUNICATIONS.** IF PROVIDED, EMERGENCY TWO-WAY COMMUNICATION SYSTEMS BETWEEN THE ELEVATOR AND A POINT OUTSIDE THE HOISTWAY SHALL COMPLY WITH ASME A17.1-1996. THE HIGHEST OPERABLE PART OF A TWO-WAY COMMUNICATION SYSTEM SHALL BE A MAXIMUM OF 48" (1220mm) FROM THE FLOOR OF THE CAR. IT SHALL BE IDENTIFIED BY A RAISED SYMBOL AND LETTERING COMPLYING WITH 4.30 AND LOCATED ADJACENT TO THE DOOR. IF THE SYSTEM USES HANDSET THEN THE LENGTH OF THE CORD FROM THE PANEL TO THE HANDSET SHALL BE AT LEAST 20" (760mm). IF THE SYSTEM IS LOCATED IN A CLOSED COMPARTMENT THE COMPARTMENT DOOR HARDWARE SHALL CONFORM TO 4.27. CONTROLS AND OPERATING MECHANISMS OF THE EMERGENCY INTERCOMUNICATION SYSTEM SHALL NOT REQUIRE VOICE COMMUNICATION.

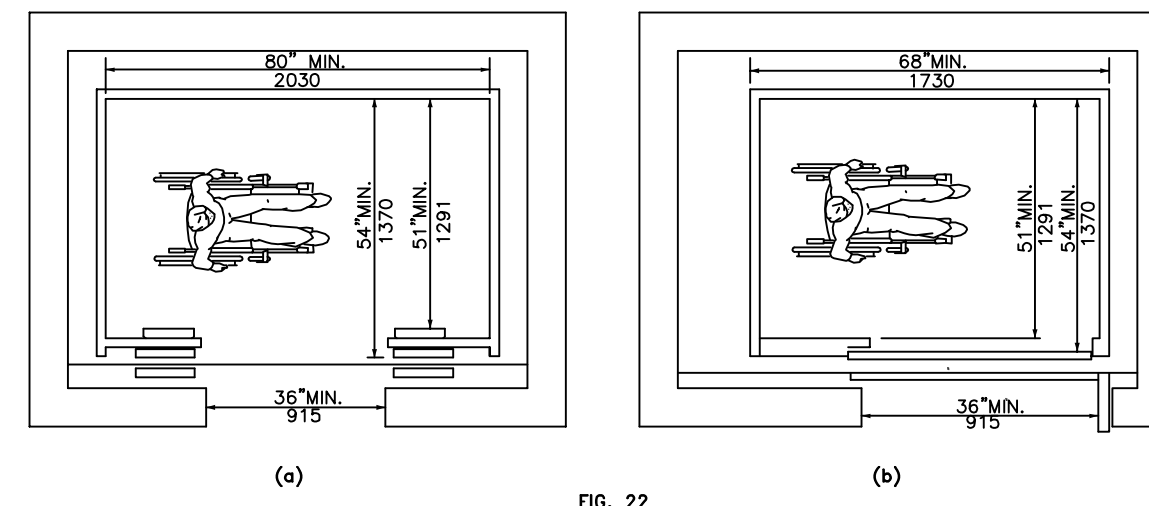


FIG. 22  
**MINIMUM DIMENSION OF ELEVATOR CARS**  
N.T.S.

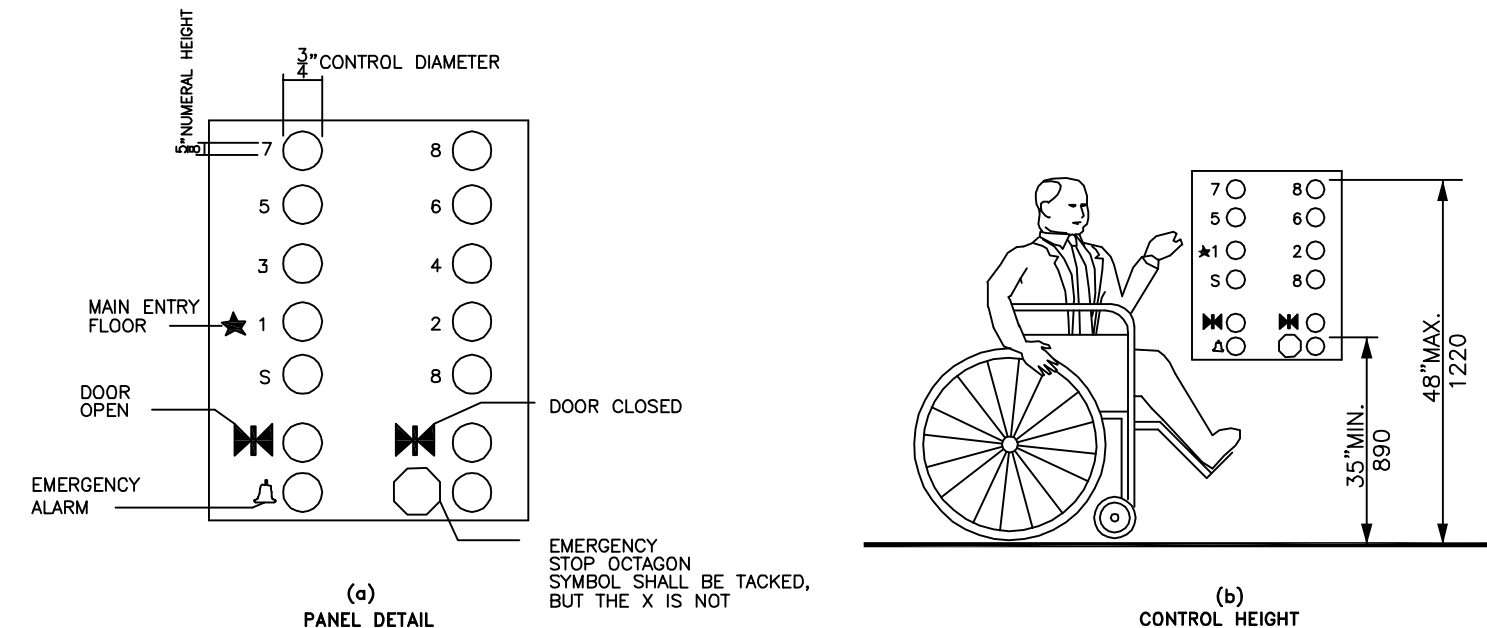
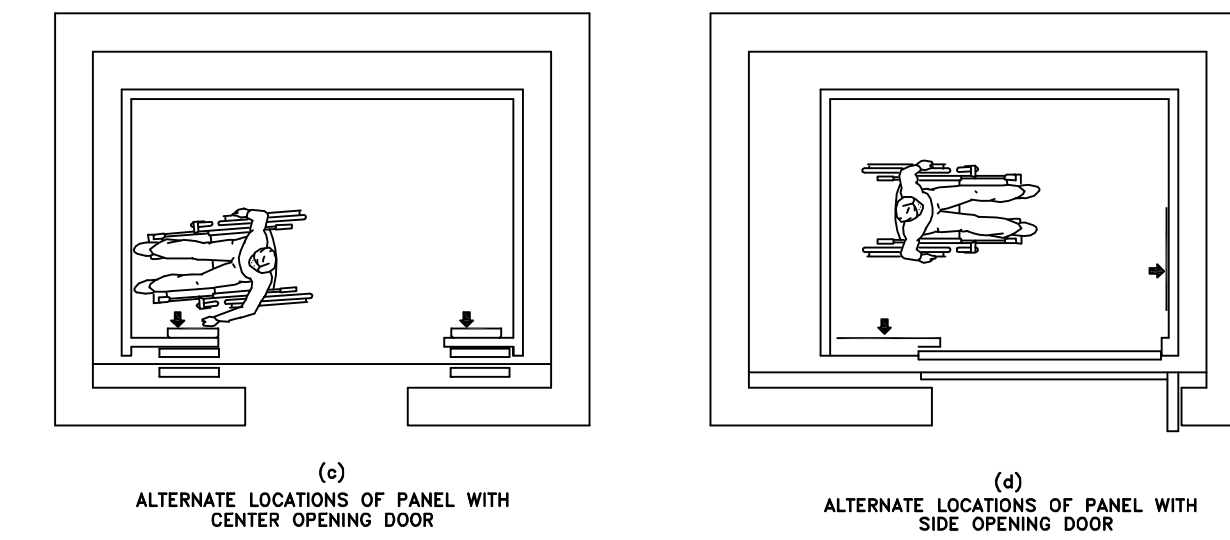


FIG. 23

FIG. 23  
**CAR CONTROLS**  
N.T.S.



**4.11 PLATFORM LIFTS (WHEELCHAIR LIFTS).**

**4.11.1 LOCATION.** PLATFORM LIFTS (WHEELCHAIR LIFTS) PERMITTED BY 4.1 SHALL COMPLY WITH THE REQUIREMENTS OF 4.11.

**4.11.2\* OTHER REQUIREMENTS.** IF PLATFORM LIFTS (WHEELCHAIR LIFTS) ARE USED, THEY SHALL COMPLY WITH 4.2.4, 4.5, 4.27, & ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX, 1996.

**4.11.3 ENTRANCE.** IF PLATFORM LIFTS ARE USED THEN THEY SHALL FACILITATE UNASSISTED ENTRY, OPERATION, AND EXIT FROM THE LIFT IN COMPLIANCE WITH 4.11.2.

**4.12 WINDOWS.**

**4.12.1\* GENERAL.** (RESERVED).

**4.12.2\* WINDOW HARDWARE.** (RESERVED).

**4.13 DOORS.**

**4.13.1\* GENERAL.** DOORS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH THE REQUIREMENTS OF 4.13.

**4.13.2 REVOLVING DOORS & TURNSTILES.** REVOLVING DOORS OR TURNSTILES SHALL NOT BE THE ONLY MEANS OF PASSAGE AT AN ACCESSIBLE ENTRANCE OR ALONG AN ACCESSIBLE ROUTE. AN ACCESSIBLE GATE OR DOOR SHALL BE PROVIDED ADJACENT TO THE TURNSTILE OR REVOLVING DOOR AND SHALL BE SO DESIGNED AS TO FACILITATE THE SAME USE PATTERN.

**4.13.3 GATES.** GATES, INCLUDING TICKET GATES, SHALL MEET ALL APPLICABLE SPECIFICATIONS OF 4.13.

**4.13.4 DOUBLE-LEAF DOORWAYS.** IF DOORWAYS HAVE TWO INDEPENDENTLY OPERATED DOOR LEAVES, THEN AT LEAST ONE LEAF SHALL MEET THE SPECIFICATIONS IN 4.13.3 & 4.13.6. THAT LEAF SHALL BE AN ACTIVE LEAF.

**4.13.5 CLEAR WIDTH.** DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" (815mm) WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP. OPENINGS MORE THAN 24" (610mm) IN DEPTH SHALL COMPLY WITH 4.1 & 4.3.3. EXCEPTION: DOORS NOT REQUIRING FULL USER PASSAGE, SUCH AS SHALLOW CLOSETS, MAY HAVE THE CLEAR OPENING REDUCED TO 20" (510mm) MINIMUM.

**4.13.6 MANEUVERING CLEARANCES AT DOORS.** THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.

**EXCEPTION:** ENTRY DOORS TO ACUTE CARE HOSPITAL BEDROOMS FOR IN-PATIENTS SHALL BE EXEMPTED FROM THE REQUIREMENT FOR SPACE AT THE LATCH SIDE OF THE DOOR IF THE DOOR IS AT LEAST 44" (1120mm) WIDE.

**4.13.7 TWO DOORS IN SERIES.** THE MINIMUM SPACE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SHALL BE 48" (1220mm) PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE. DOORS IN SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.

**4.13.8\* THRESHOLDS AT DOORWAYS.** THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4" (19mm) IN HEIGHT FOR EXTERIOR DOORS OR 1/2" (13mm) FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 (SEE 4.5.2).

**4.13.9 DOOR HARDWARE.** HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-O PERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" (1220mm) ABOVE FINISHED FLOOR.

**4.13.10\* DOOR CLOSERS.** IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIODIC OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" (75mm) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

**4.13.11\* DOOR OPENING FORCE.** THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:

- (1) FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
- (2) OTHER DOORS.
  - (a) EXTERIOR HINGED DOORS: (RESERVED).
  - (b) INTERIOR HINGED DOORS: 5 LBF (22.2N)
  - (c) SLIDING OR FOLDING DOORS: 5 LBF (22.2N)

THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

**4.13.12\* AUTOMATIC DOORS AND POWER-ASSISTED DOORS.** IF AN AUTOMATIC DOOR IS USED, THEN IT SHALL COMPLY WITH ANSI/ASHRA 115.6-10-1985. SLOWLY OPENING, LOW-POWERED, AUTOMATIC DOORS SHALL COMPLY WITH ANSI 115.6-10-1985. AUTOMATIC DOORS SHALL NOT OPEN TO BACK CHECK FASTER THAN 3 SECONDS AND SHALL REQUIRE NO MORE THAN 15 LBF (66.8N) TO STOP DOOR MOVEMENT. IF A POWER-ASSISTED DOOR IS USED, ITS DOOR-OPENING FORCE SHALL COMPLY WITH 4.13.11 AND ITS CLOSING SHALL CONFORM TO THE REQUIREMENTS IN ANSI 115.6-10-1985.

**4.14 ENTRANCES.**

**4.14.1 MINIMUM NUMBER.** ENTRANCES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL BE PART OF AN ACCESSIBLE ROUTE COMPLYING WITH 4.3. SUCH ENTRANCES SHALL BE CONNECTED BY AN ACCESSIBLE ROUTE TO PUBLIC TRANSPORTATION STOPS, TO ACCESSIBLE PARKING AND PASSENGER LOADING ZONES, AND TO PUBLIC STREETS OR SIDEWAYS IF AVAILABLE (SEE 4.3.2.(3)). THEY SHALL ALSO BE CONNECTED BY AN ACCESSIBLE ROUTE TO ALL ACCESSIBLE SPACES OR ELEMENTS WITHIN THE BUILDING OR FACILITY.

**4.14.2 SERVICE ENTRANCES.** A SERVICE ENTRANCE SHALL NOT BE THE SOLE ACCESSIBLE ENTRANCE UNLESS IT IS THE

## 4.16 WATER CLOSETS.

- 4.16.1 GENERAL.** ACCESSIBLE WATER CLOSETS SHALL COMPLY WITH 4.16.
- 4.16.2 CLEAR FLOOR SPACE.** CLEAR FLOOR SPACE FOR WATER CLOSETS NOT IN STALLS SHALL COMPLY WITH 4.16. CLEAR FLOOR SPACE MAY BE ARRANGED TO ALLOW EITHER A LEFT-HANDED OR RIGHT-HANDED APPROACH.
- 4.16.3\* HEIGHT.** THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" (430mm TO 485mm), MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION (SEE FIG. 31).
- 4.16.4\* GRAB BARS.** GRAB BARS FOR WATER CLOSETS NOT LOCATED IN STALL SHALL COMPLY WITH 4.26 AND FIG. 31. THE GRAB BAR BEHIND THE WATER CLOSET SHALL BE 36" (915mm) MINIMUM.
- 4.16.5\* FLUSH CONTROLS.** FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH 4.27.4. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44" (1120mm) ABOVE THE FLOOR.

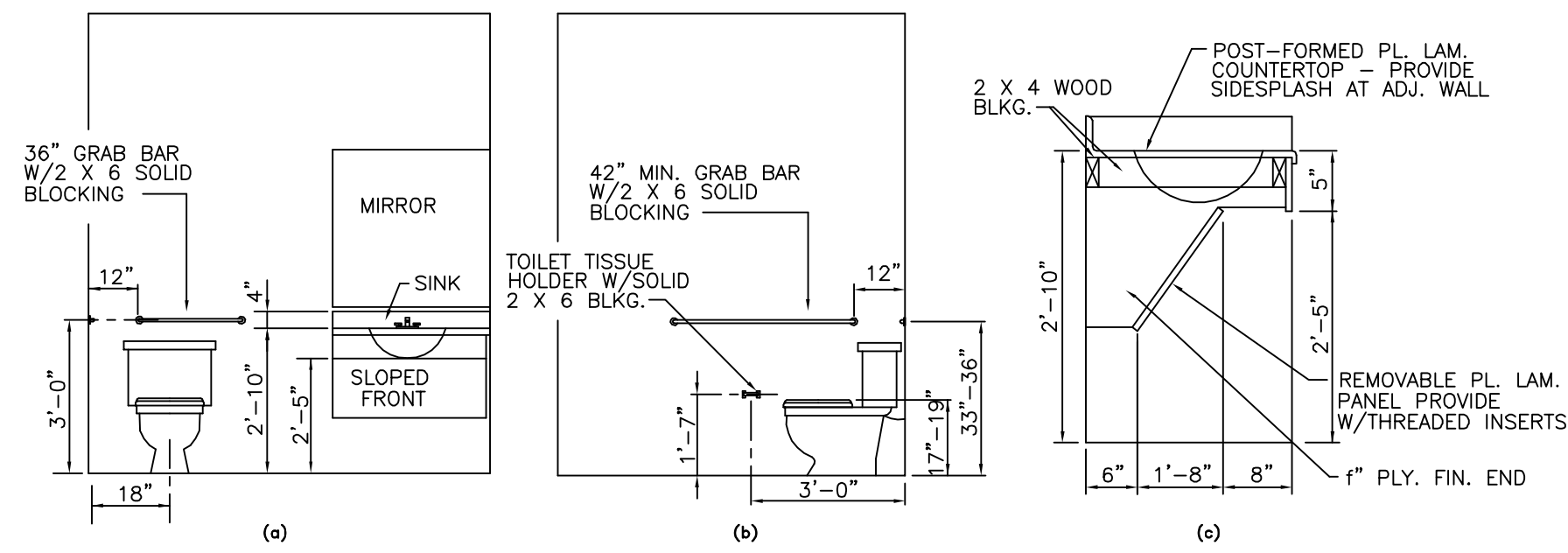


FIG. 31  
LAVATORY & WATER CLOSET CLEARANCES  
N.T.S.

## 4.17 TOILET STALLS.

- 4.17.1 LOCATION.** ACCESSIBLE TOILET STALLS SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL MEET THE REQUIREMENTS OF 4.17.
- 4.17.2 WATER CLOSETS.** WATER CLOSETS IN ACCESSIBLE STALLS SHALL COMPLY WITH 4.16.

**4.17.3\* SIZE AND ARRANGEMENT.** THE SIZE AND ARRANGEMENT OF THE STANDARD TOILET STALL SHALL COMPLY WITH 4.17. STANDARD TOILET STALLS WITH A MINIMUM DEPTH OF 56" (1420mm) SHALL HAVE WALL-MOUNTED WATER CLOSETS. IF THE DEPTH OF A STANDARD TOILET STALL IS INCREASED AT LEAST 3" (76mm), THEN A FLOOR-MOUNTED WATER CLOSET MAY BE USED. IF ARRANGEMENTS SHOWN FOR STANDARD TOILET STALLS MAY BE REVERSED TO ALLOW EITHER A LEFT-OR RIGHT-HAND APPROACH. ADDITIONAL STALL SHALL BE PROVIDED IN CONFORMANCE WITH 4.22.4.

**EXCEPTION:** IN INSTANCES OF ALTERATION WORK WHERE PROVISION OF A STANDARD STALL IS TECHNICALLY INFEASIBLE OR WHERE PLUMBING CODE REQUIREMENTS PREVENT COMBINING EXISTING STALLS TO PROVIDE SPACE, EITHER ALTERNATE STALL MAY BE PROVIDED IN LIEU OF THE STANDARD STALL.

**4.17.4 TOE CLEARANCES.** IN STANDARD STALLS, THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF AT LEAST 9" (230mm) ABOVE THE FLOOR. IF THE DEPTH OF THE STALL IS GREATER THAN 60" (1525mm), THEN THE TOE CLEARANCE IS NOT REQUIRED.

**4.17.5\* DOORS.** TOILET STALL DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 4.13. IF TOILET STALL APPROACH IS FROM THE LATCH SIDE OF THE STALL DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTION MAY BE REDUCED TO A MINIMUM OF 42" (1065mm).

**4.17.6 GRAB BARS.** GRAB BARS MAY BE MOUNTED WITH ANY DESIRED METHOD AS LONG AS THEY HAVE A GRIPPING SURFACE AT THE LOCATIONS SHOWN IN FIG. 31 AND DO NOT OBSTRUCT THE REQUIRED CLEAR FLOOR AREA. GRAB BARS SHALL COMPLY WITH 4.26.

## 4.18 URINALS.

- 4.18.1 GENERAL.** ACCESSIBLE URINALS SHALL COMPLY WITH 4.18.
- 4.18.2 HEIGHT.** URINALS SHALL BE STALL-TYPE OR WALL-HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" (430mm) ABOVE THE FINISH FLOOR.
- 4.18.3 CLEAR FLOOR SPACE.** A CLEAR FLOOR SPACE 30" BY 48" (760mm BY 1220mm) SHALL BE PROVIDED IN FRONT OF URINALS TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.2.4. URINAL SHIELDS THAT DO NOT EXTEND BEYOND THE FRONT EDGE OF THE URINAL RIM MAY BE PROVIDED WITH 29" (735mm) CLEARANCE BETWEEN THEM.

**4.18.4 FLUSH CONTROLS.** FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC, AND SHALL COMPLY WITH 4.27.4, AND SHALL BE MOUNTED NO MORE THAN 44" (1120mm) ABOVE THE FINISH FLOOR.

## 4.19 LAVATORIES & MIRRORS.

- 4.19.1 GENERAL.** THE REQUIREMENTS OF 4.19 SHALL APPLY TO LAVATORY FIXTURES, VANITIES, AND BUILT-IN LAVATORIES.
- 4.19.2 HEIGHT & CLEARANCES.** LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" (865mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" (735mm) ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON (SEE FIG. 31).

**4.19.3 CLEAR FLOOR SPACE.** A CLEAR FLOOR SPACE 30" BY 48" (760mm BY 1220mm) COMPLYING WITH 4.2.4 SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAXIMUM OF 19" (485mm) UNDERNEATH THE LAVATORY.

**4.19.4 EXPOSED PIPES & SURFACES.** HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

**4.19.5 FAUCETS.** FAUCETS SHALL COMPLY WITH 4.27.4. LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF-CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.

**4.19.6\* MIRRORS.** MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40" (1015mm) ABOVE THE FINISH FLOOR (SEE FIG. 31).

## 4.20 BATHTUBS.

- 4.20.1 GENERAL.** ACCESSIBLE BATHTUBS SHALL COMPLY WITH 4.20.
- 4.20.2 FLOOR SPACE.** CLEAR FLOOR SPACE IN FRONT OF BATHTUBS SHALL COMPLY WITH 4.20.
- 4.20.3 SEAT.** AN IN-TUB SEAT OR A SEAT AT THE HEAD END OF THE TUB SHALL BE PROVIDED AS SHOWN IN FIG. 34. THE STRUCTURAL STRENGTH OF SEATS AND THEIR ATTACHMENTS SHALL COMPLY WITH 4.26.3. SEATS SHALL BE MOUNTED SECURELY AND SHALL NOT SLIP DURING USE.
- 4.20.4 GRAB BARS.** GRAB BARS COMPLYING WITH 4.26 SHALL BE PROVIDED AS SHOWN IN FIG. 34.
- 4.20.5 CONTROLS.** FAUCETS AND OTHER CONTROLS COMPLYING WITH 4.27.4 SHALL BE LOCATED AS SHOWN IN FIG. 34.

**4.20.6 SHOWER UNIT.** A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" (1525mm) LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED.

**4.20.7 BATHTUB ENCLOSURES.** IF PROVIDED, ENCLOSURES FOR BATHTUBS SHALL NOT OBSTRUCT CONTROLS OR TRANSFER FROM WHEELCHAIRS ONTO BATHTUB SEATS OR INTO TUBS. ENCLOSURES FOR BATHTUBS SHALL NOT HAVE TRACKS MOUNTED ON THEIR RIMS.

## 4.21 SHOWER STALLS.

- 4.21.1\* GENERAL.** ACCESSIBLE SHOWER STALLS SHALL COMPLY WITH 4.21.
- 4.21.2 SIZE & CLEARANCE.** EXCEPT AS SPECIFIED IN 9.1.2, SHOWER STALL SIZE AND CLEAR FLOOR SPACE SHALL COMPLY WITH FIG. 34(a) OR (b). THE SHOWER STALL IN FIG. 34(a) SHALL BE 36" BY 36" (915mm BY 915mm). THE SHOWER STALL IN FIG. 34(b) WILL FIT INTO THE SPACE REQUIRED FOR A BATHTUB.
- 4.21.3 SEAT.** A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36" BY 36" (915mm BY 915mm). THE SEAT SHALL BE MOUNTED 17" TO 19" (430mm TO 485mm) FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. IN A 36" BY 36" SHOWER STALL, THE SEAT SHALL BE ON THE WALL OPPOSITE THE CONTROLS. WHERE A FIXED SEAT IS PROVIDED IN A 30" BY 60" MINIMUM SHOWER STALL, IT SHALL BE A FOLDING TYPE AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS. THE STRUCTURAL STRENGTH OF SEATS AND THEIR ATTACHMENTS SHALL COMPLY WITH 4.26.3.

**4.21.4 GRAB BARS.** GRAB BARS COMPLYING WITH 4.26 SHALL BE PROVIDED AS SHOWN IN FIG. 34.

**4.21.5 CONTROLS.** FAUCETS AND OTHER CONTROLS COMPLYING WITH 4.27.4 SHALL BE LOCATED AS SHOWN IN FIG. 34. IN SHOWER STALLS 36" BY 36" (915mm BY 915mm) ALL CONTROLS, FAUCETS, AND THE SHOWER UNIT SHALL BE MOUNTED ON THE SIDE WALL OPPOSITE THE SEAT.

**4.21.6 SHOWER UNIT.** A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" (1525mm) LONG THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND-HELD SHOWER SHALL BE PROVIDED.

**EXCEPTION:** IN UNMONTAINED FACILITIES WHERE VANDALISM IS A CONSIDERATION, A FIXED SHOWER HEAD MOUNTED AT 48" (1220mm) ABOVE THE SHOWER FLOOR MAY BE USED IN LIEU OF A HAND-HELD SHOWER HEAD.

**4.21.7 CURBS.** IF PROVIDED, CURBS IN SHOWER STALLS 36" BY 36" (915mm BY 915mm) SHALL BE NO HIGHER THAN 1/2" (13mm). SHOWER STALLS THAT ARE 30" BY 60" (760mm BY 1525mm) SHALL NOT HAVE CURBS.

**4.21.8 SHOWER ENCLOSURES.** IF PROVIDED, ENCLOSURES FOR SHOWER STALLS SHALL NOT OBSTRUCT CONTROLS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

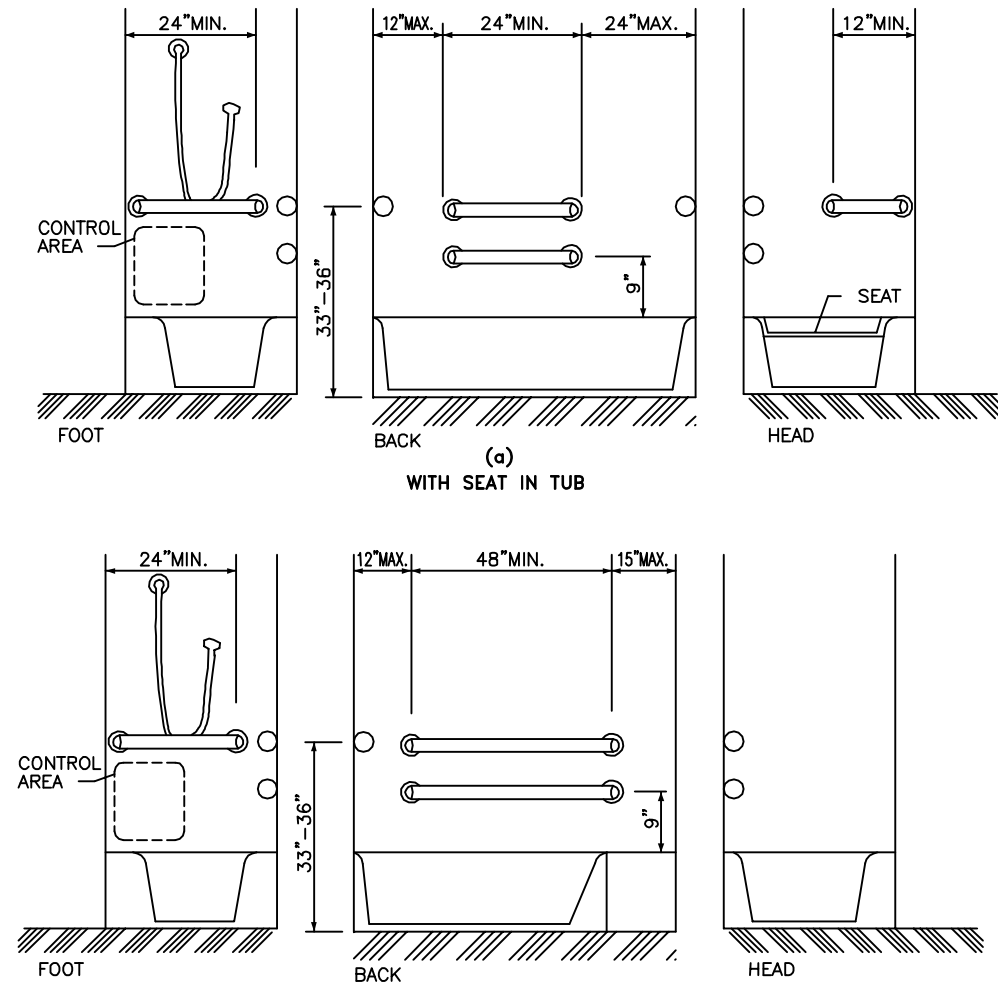


FIG. 34  
GRAB BARS AT BATHTUBS  
N.T.S.

## 4.22 TOILET ROOMS.

- 4.22.1 MINIMUM NUMBER.** TOILET FACILITIES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.22. ACCESSIBLE TOILET ROOMS SHALL BE ON AN ACCESSIBLE ROUTE.
- 4.22.2 DOORS.** ALL DOORS TO ACCESSIBLE TOILET ROOMS SHALL COMPLY WITH 4.13. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED FOR ANY FIXTURE.
- 4.22.3 CLEAR FLOOR SPACE.** THE ACCESSIBLE FIXTURES AND CONTROLS REQUIRED IN 4.22.4, 4.22.5, 4.22.6, AND 4.22.7 SHALL BE ON AN ACCESSIBLE ROUTE. AN UNOBSTRUCTED TURNING SPACE COMPLYING WITH 4.2.3 SHALL BE PROVIDED WITHIN AN ACCESSIBLE TOILET ROOM. THE CLEAR FLOOR SPACE AT FIXTURES AND CONTROLS, THE ACCESSIBLE ROUTE, AND THE TURNING SPACE MAY OVERLAP.
- EXCEPTION:** IN TOILET ROOMS WITH ONLY ONE WATER CLOSET AND ONE LAVATORY, A CLEAR FLOOR SPACE OF 30" BY 60" (915mm BY 1525mm) MAY BE USED IN LIEU OF THE UNOBSTRUCTED TURNING SPACE.
- 4.22.4 WATER CLOSETS.** IF TOILET STALLS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.17. ITS WATER CLOSET SHALL COMPLY WITH 4.16. IF WATER CLOSETS ARE NOT IN STALLS, THEN AT LEAST ONE SHALL COMPLY WITH 4.16.
- 4.22.5 URINALS.** IF URINALS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.18.

**4.22.6 LAVATORIES AND MIRRORS.** IF LAVATORIES AND MIRRORS ARE PROVIDED, THEN AT LEAST ONE OF EACH SHALL COMPLY WITH 4.19.

**4.22.7 CONTROLS AND DISPENSERS.** IF CONTROLS, DISPENSERS, RECEPTACLES, OR OTHER EQUIPMENT IS PROVIDED, THEN AT LEAST ONE OF EACH SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.27.

## 4.23 BATHROOM, BATHING FACILITIES, AND SHOWER ROOMS.

**4.23.1 MINIMUM NUMBER.** BATHROOMS, BATHING FACILITIES, OR SHOWER ROOMS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.23 AND SHALL BE ON AN ACCESSIBLE ROUTE. FOR ADAPTABLE BATHROOMS IN ACCESSIBLE DWELLING UNITS, SEE 4.34.5.

**4.23.2 DOORS.** DOORS TO ACCESSIBLE BATHROOMS SHALL COMPLY WITH 4.13. DOORS SHALL NOT SWING INTO THE FLOOR SPACE REQUIRED FOR ANY FIXTURE.

**4.23.3 CLEAR FLOOR SPACE.** THE ACCESSIBLE FIXTURES AND CONTROLS REQUIRED IN 4.23.4, 4.23.5, 4.23.6, 4.23.7, 4.23.8, AND 4.23.9 SHALL BE ON AN ACCESSIBLE ROUTE. AN UNOBSTRUCTED TURNING SPACE COMPLYING WITH 4.2.3 SHALL BE PROVIDED WITHIN AN ACCESSIBLE BATHROOM. THE CLEAR FLOOR SPACES AT FIXTURES AND CONTROLS, THE ACCESSIBLE ROUTE AND THE TURNING SPACE MAY OVERLAP.

**EXCEPTION:** IN BATHROOMS WITH ONLY ONE WATER CLOSET, ONE LAVATORY, AND ONE BATHTUB OR SHOWER A CLEAR FLOOR SPACE OF 30" BY 60" (760mm BY 1525mm) MAY BE USED IN LIEU OF THE UNOBSTRUCTED TURNING SPACE.

**4.23.4 WATER CLOSETS.** IF TOILET STALLS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.17. ITS WATER CLOSET SHALL COMPLY WITH 4.16. IF WATER CLOSETS ARE NOT IN STALLS, THEN AT LEAST ONE SHALL COMPLY WITH 4.16.

**4.23.5 URINALS.** IF URINALS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY WITH 4.18.

**4.23.6 LAVATORIES AND MIRRORS.** IF LAVATORIES AND MIRRORS ARE PROVIDED, THEN AT LEAST ONE OF EACH SHALL COMPLY WITH 4.19.

**4.23.7 CONTROLS AND DISPENSERS.** IF CONTROLS, DISPENSERS, RECEPTACLES, OR OTHER EQUIPMENT IS PROVIDED, THEN AT LEAST ONE OF EACH SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 4.27.

**4.23.8 BATHING AND SHOWER FACILITIES.** IF TUBS, OR SHOWERS ARE PROVIDED, THEN AT LEAST ONE ACCESSIBLE TUB THAT COMPLIES WITH 4.20 OR AT LEAST ONE ACCESSIBLE SHOWER THAT COMPLIES WITH 4.21 SHALL BE PROVIDED.

**4.23.9\* MEDICINE CABINETS.** IF MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE SHALL BE LOCATED WITH A USEABLE SHELF NO HIGHER THAN 44" (1120mm) ABOVE THE FLOOR SPACE. THE FLOOR SPACE SHALL COMPLY WITH 4.2.4.

## 4.24 SINKS.

- 4.24.1 GENERAL.** SINKS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.24.
- 4.24.2 HEIGHT.** SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34" (865mm) FROM THE FINISHED FLOOR (SEE FIG. 31).
- 4.24.3 KNEE CLEARANCE.** KNEE CLEARANCE THAT IS AT LEAST 27" (685mm) HIGH, 30" (760mm) WIDE, AND 19" (485mm) DEEP SHALL BE PROVIDED UNDERNEATH SINKS.
- 4.24.4 DEPTH.** EACH SINK SHALL BE A MAXIMUM OF 6-1/2" (165mm) DEEP.

**4.25.5 CLEAR FLOOR SPACE.** A CLEAR FLOOR SPACE AT LEAST 30" BY 48" (760mm BY 1220mm) COMPLYING WITH 4.2.4 SHALL BE PROVIDED IN FRONT OF A SINK TO ALLOW FORWARD APPROACH. THE CLEAR FLOOR SPACE SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAXIMUM OF 19" (485mm) UNDERNEATH THE SINK.

**4.25.6 EXPOSED PIPES AND SURFACES.** HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.

**4.25.7 FAUCETS.** FAUCETS SHALL COMPLY WITH 4.27.4. LEVER-OPERATED, PUSH-TYPE, TOUCH-TYPE, OR ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE DESIGNS.

## 4.25 STORAGE.

**4.25.1 GENERAL.** FIXED STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS, AND DRAWERS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.25.

**4.25.2 CLEAR FLOOR SPACE.** A CLEAR FLOOR SPACE AT LEAST 30" BY 48" (760mm BY 1220mm) COMPLYING WITH 4.2.4 THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT ACCESSIBLE STORAGE FACILITIES.

**4.25.3 HEIGHT.** ACCESSIBLE STORAGE SPACES SHALL BE WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN 4.2.5 AND 4.2.6. CLOTHES RODS SHALL BE A MAXIMUM OF 54" (1370mm) FROM THE FLOOR.

**4.25.4 HARDWARE.** HARDWARE FOR ACCESSIBLE STORAGE FACILITIES SHALL COMPLY WITH 4.27.4 TOUCH LATCHES AND U-SHAPED PULLS ARE ACCEPTABLE.

## 4.26 HANDRAILS, GRAB BARS, AND TUB AND SHOWER SEATS.

**4.26.1 GENERAL.** ALL HANDRAILS, GRAB BARS, AND TUB AND SHOWER SEATS REQUIRED TO BE ACCESSIBLE BY 4.1, 4.8, OR 4.9 SHALL COMPLY WITH 4.26.

**4.26.2\* SIZE AND SPACING OF GRAB BARS AND HANDRAILS.** THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1 1/4" TO 1 1/2" (32mm TO 38mm) OR THE SHARP SLIP PROOFING AN EQUAL OR GREATER SURFACE. IF HANDRAILS OR GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2" (38mm). HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" (75mm) DEEP AND EXTENDS AT LEAST 18" (455mm) ABOVE THE TOP OF THE RAIL.

**4.26.3 STRUCTURAL STRENGTH.** THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:

- (1) BENDING STRESS IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250LBF. (1112N) SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
- (2) SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250LBF. (1112N) SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOLERATED FOR THE COMBINED SHEAR STRESS WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
- (3) SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250LBF. (1112N) SHALL BE NO LESS THAN THE ALLOWABLE TENSILE LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
- (4) TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250LBF. (1112N) PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250LBF. (1112N) SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL AND THE SUPPORTING STRUCTURE.
- (5) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

**4.26.4 ELIMINATING HAZARDS.** A HANDRAIL OR GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8" (32mm).

## 4.27 CONTROLS AND OPERATING MECHANISMS.

**4.27.1 GENERAL.** CONTROLS AND OPERATING MECHANISMS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.27.

**4.27.2 CLEAR FLOOR SPACE.** CLEAR FLOOR SPACE COMPLYING WITH 4.2.4 THAT ALLOWS A FORWARD OR A PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OPERABLE EQUIPMENT.

**4.27.3\* HEIGHT.** THE HIGHEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED ABOVE. AN ANTI-CLIMB DEVICE OR TWISTING OF THE WRIST INDICATES OTHERWISE ELECTRICAL AND COMMUNICATIONS SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" (380mm) ABOVE THE FLOOR.

**4.27.4 OPERATION.** CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF (22.2N).

## 4.28 ALARMS.

**4.28.1 GENERAL.** ALARM SYSTEMS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.28.

**4.28.2 AUDIBLE ALARMS.** IF PROVIDED, AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A SOUND THAT EXCEEDS THE TURNING EQUIVALENT SOUND LEVEL IN THE ROOM OR SPACE BY AT LEAST 19 DECIBELS OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 30 SECONDS BY 5 DECIBELS WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 DECIBELS.

**4.28.3 VISUAL ALARMS.** IF PROVIDED, ELECTRICALLY POWERED INTERNALLY ILLUMINATED EMERGENCY EXIT SIGNS SHALL FLASH AS A VISUAL EMERGENCY ALARM IN CONJUNCTION WITH AUDIBLE EMERGENCY ALARMS. THE FLASHING FREQUENCY OF VISUAL ALARM DEVICES SHALL BE LESS THAN 2 HZ. IF SUCH ALARMS USE ELECTRICITY FROM THE BUILDING AS A POWER SOURCE THEN THEY SHALL BE INSTALLED ON THE SAME SYSTEM AS THE AUDIBLE EMERGENCY ALARMS.

**EXCEPTIONS:**  
(1) VISUAL ALARM DEVICES THAT ARE MOUNTED ADJACENT TO EMERGENCY EXIT SIGNS MAY BE USED IN LIEU OF FLASHING EXIT SIGNS.  
(2) SPECIALIZED SYSTEMS UTILIZING ADVANCED TECHNOLOGY MAY BE SUBSTITUTED FOR THE VISUAL SYSTEMS SPECIFIED ABOVE IF EQUIPMENT PROTECTION IF AFFORDED HANDICAPPED USERS OF THE BUILDING OR FACILITY.

**4.28.4 AUXILIARY ALARMS.** ACCESSIBLE SLEEPING ACCOMMODATIONS SHALL HAVE A VISUAL ALARM CONNECTED TO THE BUILDING EMERGENCY ALARM SYSTEM OR SHALL HAVE A STANDARD 110-VOLT ELECTRICAL RECEPTACLE INTO WHICH SUCH AN ALARM COULD BE CONNECTED. INSTRUCTIONS FOR USE OF THE AUXILIARY ALARM OR CONNECTION SHALL BE PROVIDED.

## 4.29 TACTILE WARNINGS.

- 4.29.1 GENERAL.** TACTILE WARNINGS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.29.
- 4.29.2\* TACTILE WARNINGS ON WALKING SURFACES.** (RESERVED)
- 4.29.3\* TACTILE WARNINGS ON DOORS TO HAZARDOUS AREAS.** (RESERVED)
- 4.29.4 TACTILE WARNINGS AT STAIRS.** (RESERVED)
- 4.29.5\* TACTILE WARNINGS AT HAZARDOUS VEHICULAR AREAS.** (RESERVED)
- 4.29.6\* TACTILE WARNINGS AT REFLECTING POOLS.** (RESERVED)

**4.29.7 STANDARDIZATION.** TEXTURED SURFACES FOR TACTILE DOOR WARNINGS SHALL BE STANDARD WITHIN A BUILDING, FACILITY, SITE, OR PORTION OF BUILDINGS.

## 4.30 SIGNAGE.

- 4.30.1 GENERAL.** SIGNAGE REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.30.
- 4.30.2 CHARACTER PROPORTION.** LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 AND 1:1 AND A STROKE WIDTH TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
- 4.30.3\* COLOR CONTRAST.** CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND—EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- 4.30.4\* RAISED OR INDENTED CHARACTERS OR SYMBOLS.** LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED OR INDENTED AT A MINIMUM AND SHALL BE SPACED AS FOLLOWS:  
CHARACTERS OR SYMBOLS SHALL BE AT LEAST 5/8" (16mm) HIGH, BUT NO HIGHER THAN 2" (50mm) HIGH.  
LETTERS, NUMBERS, SYMBOLS, ENCLAVES, AND FIXED SEATS SHALL NOT IMPEDER APPROACHES TO TELEPHONES BY PEOPLE WHO USE WHEELCHAIRS.

**4.30.5 SYMBOLS OF ACCESSIBILITY.** ACCESSIBLE FACILITIES REQUIRED TO BE IDENTIFIED BY 4.1 SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SYMBOL SHALL BE DISPLAYED AS SHOWN IN FIG. 43.

**4.30.6 MOUNTING LOCATION AND HEIGHT.** INTERIOR SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AT A HEIGHT OF BETWEEN 54" AND 68" (1370mm AND 1675mm) ABOVE THE FINISHED FLOOR.

## 4.31 TELEPHONES.

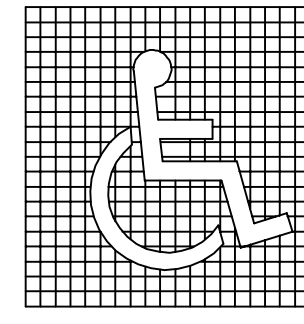
**4.31.1 GENERAL.** PUBLIC TELEPHONES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.31.

**4.31.2 CLEAR FLOOR OR GROUND SPACE.** A CLEAR FLOOR OR GROUND SPACE AT LEAST 30" BY 48" (760mm BY 1220mm) THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT TELEPHONES. THE CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 4.2.4. SEATING, ENCLOSURES, AND FIXED SEATS SHALL NOT IMPEDER APPROACHES TO TELEPHONES BY PEOPLE WHO USE WHEELCHAIRS.

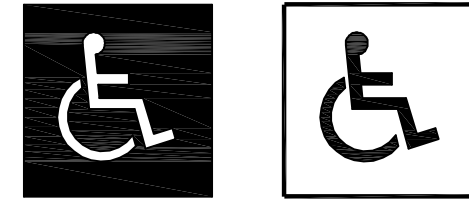
**4.31.3\* MOUNTING HEIGHT.** THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE WITHIN THE REACH RANGES SPECIFIED IN 4.2.5 OR 4.2.6.

**4.31.4 PROTRUDING OBJECTS.** TELEPHONES SHALL COMPLY WITH 4.4.

**4.31.5\* EQUIPMENT FOR HEARING IMPAIRED PEOPLE.** TELEPHONES SHALL BE EQUIPPED WITH A RECEIVER THAT GENERATES A MAGNETIC FIELD IN THE AREA OF THE RECEIVER CAP. VOLUME CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH 4.1.2.



(a)  
PROPORTIONS



(b)  
DISPLAY CONDITIONS

FIG. 43

## INTERNATIONAL SYMBOL OF ACCESSIBILITY

N.T.S.

- 4.31.6 CONTROLS.** TELEPHONES SHALL HAVE PUSHBUTTON CONTROLS WHERE SERVICE FOR SUCH EQUIPMENT IS AVAILABLE.
- 4.31.7 TELEPHONE BOOKS.** TELEPHONE BOOKS, IF PROVIDED, SHALL BE LOCATED IN A POSITION THAT COMPLIES WITH THE REACH RANGES SPECIFIED IN 4.2.5 AND 4.2.6.

**4.31.8 CORD LENGTH.** THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE AT LEAST 29".

## 4.32 SEATING, TABLES, AND WORK SURFACES.

**4.32.1 MINIMUM NUMBER.** FIXED OR BUILT IN SEATING, TABLES, OR WORK SURFACES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.32.

**4.32.2 SEATING.** IF SEATING SPACES FOR PEOPLE IN WHEELCHAIRS ARE PROVIDED AT TABLES, COUNTERS, OR WORK SURFACES, CLEAR FLOOR SPACE COMPLYING WITH 4.2.4 SHALL BE PROVIDED. SUCH CLEAR FLOOR SPACE SHALL NOT OVERLAP KNEE SPACE BY MORE THAN 19" (485mm).

**4.32.3 KNEE CLEARANCES.** IF SEATING FOR PEOPLE IN WHEELCHAIRS IS PROVIDED AT TABLES, COUNTERS, AND WORK SURFACES, KNEE SPACES AT LEAST 27" (685mm) HIGH 30" (760mm) WIDE AND 19" (485mm) DEEP SHALL BE PROVIDED.

**4.32.4\* HEIGHT OF WORK SURFACES.** THE TOPS OF TABLES AND WORK SURFACES SHALL BE FROM 28" TO 34" (710mm TO 865mm) FROM THE FLOOR OR GROUND.

## 4.33 ASSEMBLY AREAS.

**4.33.1 MINIMUM NUMBER.** ASSEMBLY AND ASSOCIATED AREAS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.33.

**4.33.2\* SIZE OF WHEELCHAIR LOCATIONS.** EACH WHEELCHAIR LOCATION SHALL PROVIDE MINIMUM CLEAR GROUND OR FLOOR SPACES AS SHOWN IN FIG. 46.

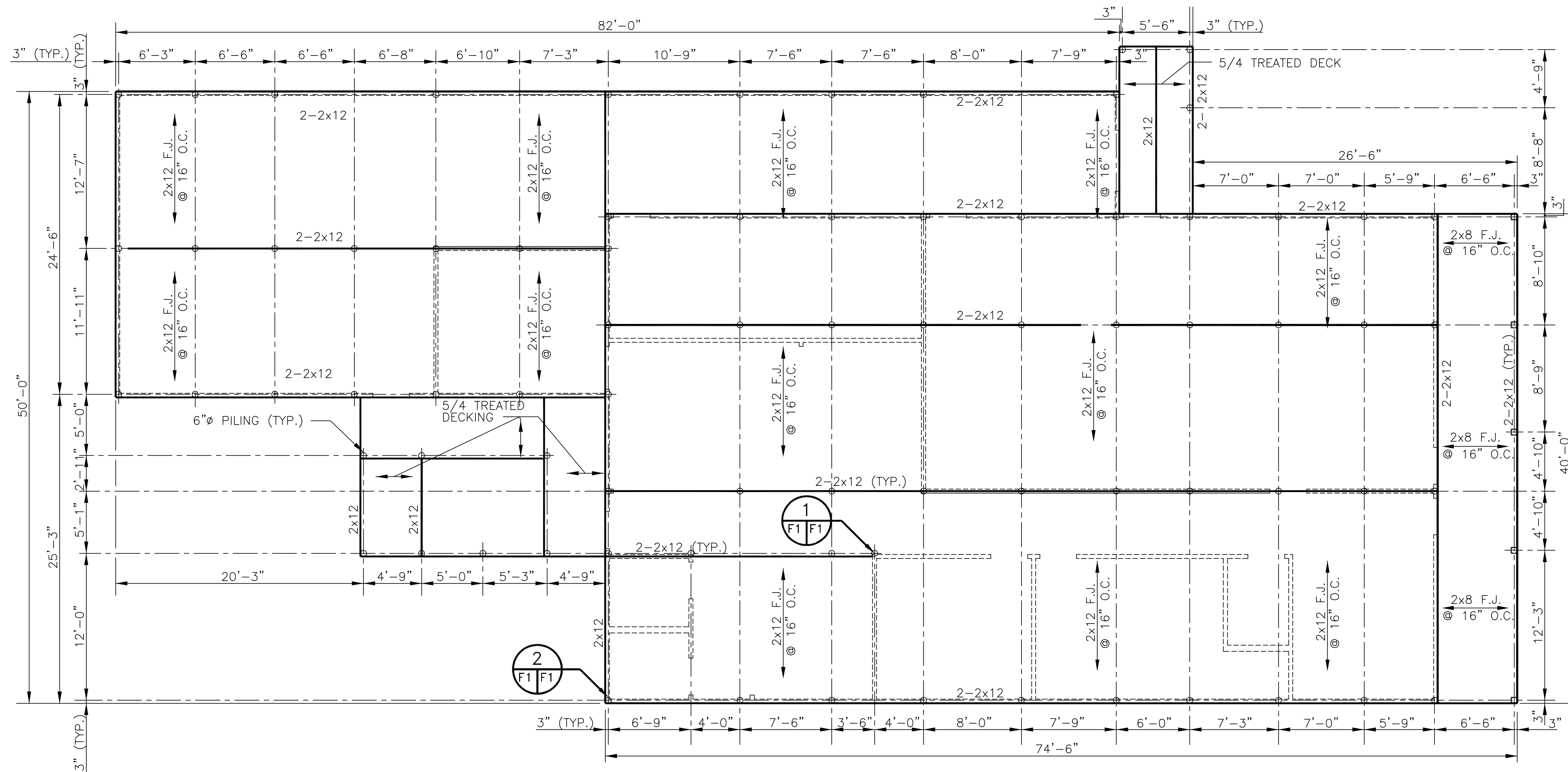
**4.33.3\* PLACEMENT OF WHEELCHAIR LOCATIONS.** WHEELCHAIR AREAS SHALL BE AN INTEGRAL PART OF ANY FIXED SEATING PLAN AND SHALL BE DISPERSED THROUGHOUT THE SEATING AREA. THEY SHALL ADJOIN AN ACCESSIBLE ROUTE THAT ALSO SERVES AS A MEANS OF EGRESS IN CASE OF EMERGENCY AND SHALL BE LOCATED TO PROVIDE LINES OF SIGHT COMPARABLE TO THOSE FOR ALL VIEWING AREAS.

**EXCEPTION:** ACCESSIBLE VIEWING POSITIONS MAY BE CLUSTERED FOR BLEACHERS, BALCONIES, AND OTHER AREAS HAVING SIGHT LINES THAT REQUIRE SLOPES OF GREATER THAN 3 PERCENT. EQUIVALENT ACCESSIBLE VIEWING POSITIONS MAY BE LOCATED ON LEVELS HAVING ACCESSIBLE EGRESS.

**4.33.4 SURFACES.** THE GROUND OR FLOOR AT WHEELCHAIR LOCATIONS SHALL BE LEVEL AND COMPLY WITH 4.5.

**4.33.5 ACCESS TO PERFORMING AREAS.** AN ACCESSIBLE ROUTE SHALL CONNECT WHEELCHAIR SEATING LOCATIONS WITH PERFORMING AREAS, INCLUDING STAGES, ARENA FLOORS, DRESSING ROOMS, LOCKER ROOMS, AND OTHER SPACES USED BY PERFORMERS.

**4.33.6\* PLACEMENT OF LISTENING SYSTEMS.** IF THE LISTENING SYSTEM PROVIDED SERVES INDIVIDUAL FIXED SEATS THEN SUCH SEATS SHALL BE LOCATED WITHIN A 50' (15M) VIEWING DISTANCE STAGE OR PLAYING AREA AND SHALL HAVE A COMPLETE VIEW OF THE STAGE OR PLAYING AREA.



**NOTE:**

PILE SPACING IS BASED ON 5 TON CAPACITY PER PILE, USING CLASS 5 PILES DRIVEN 10' BELOW SURFACE. SHOULD PILE LOAD TEST NOT SUPPORT THE 5 TON CAPACITY, CONTACT DAMMON ENGINEERING. TOTAL OF 82 PILES.

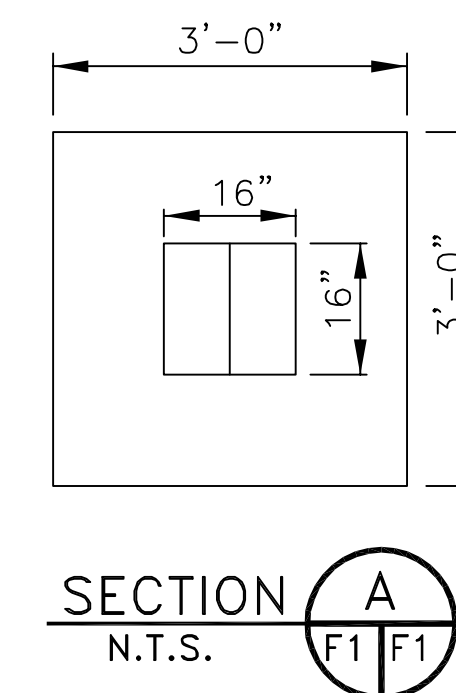
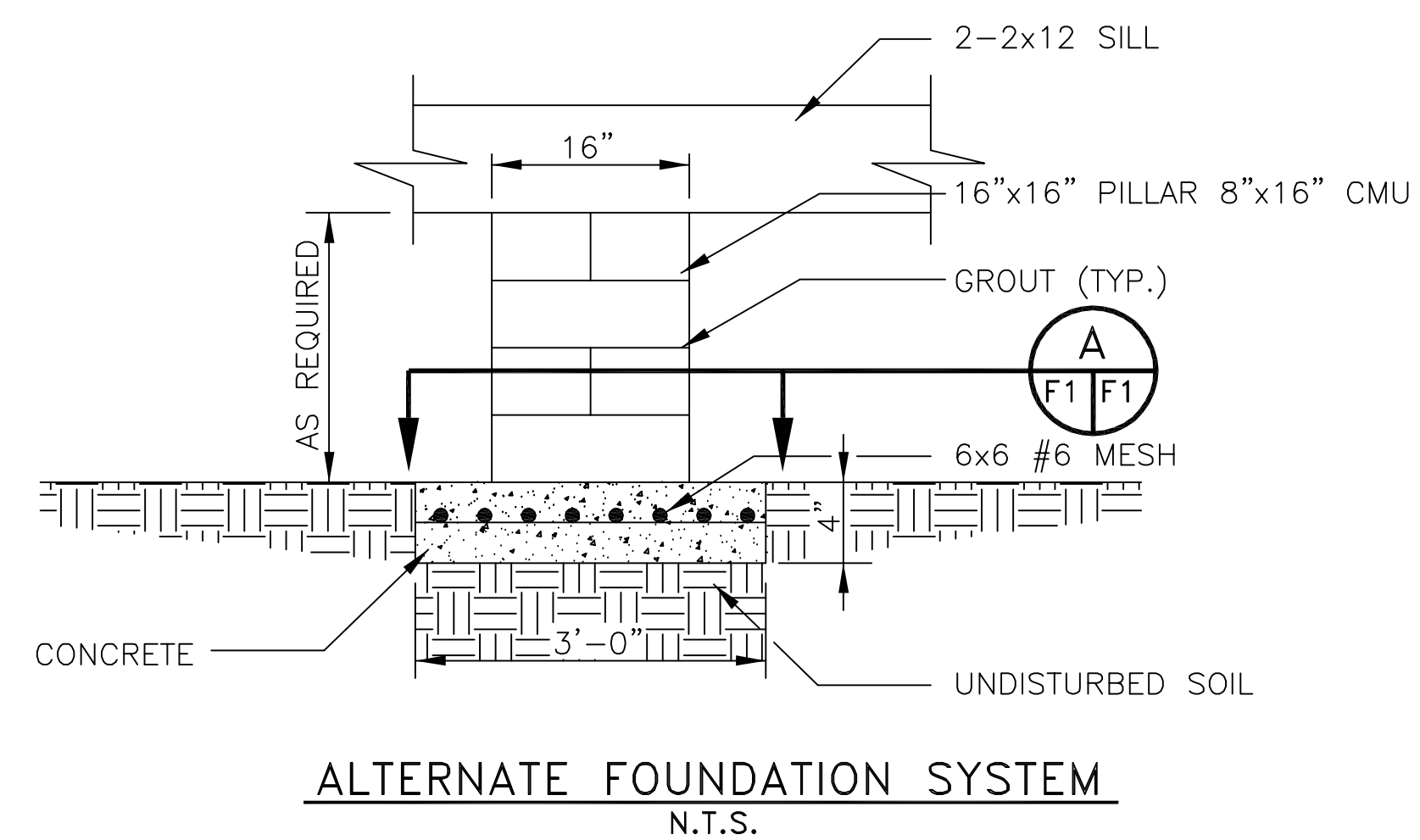
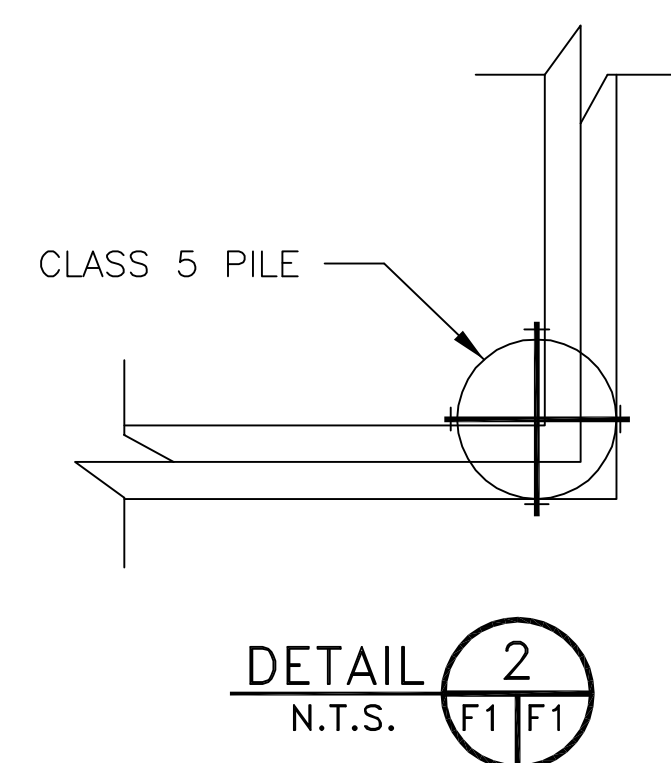
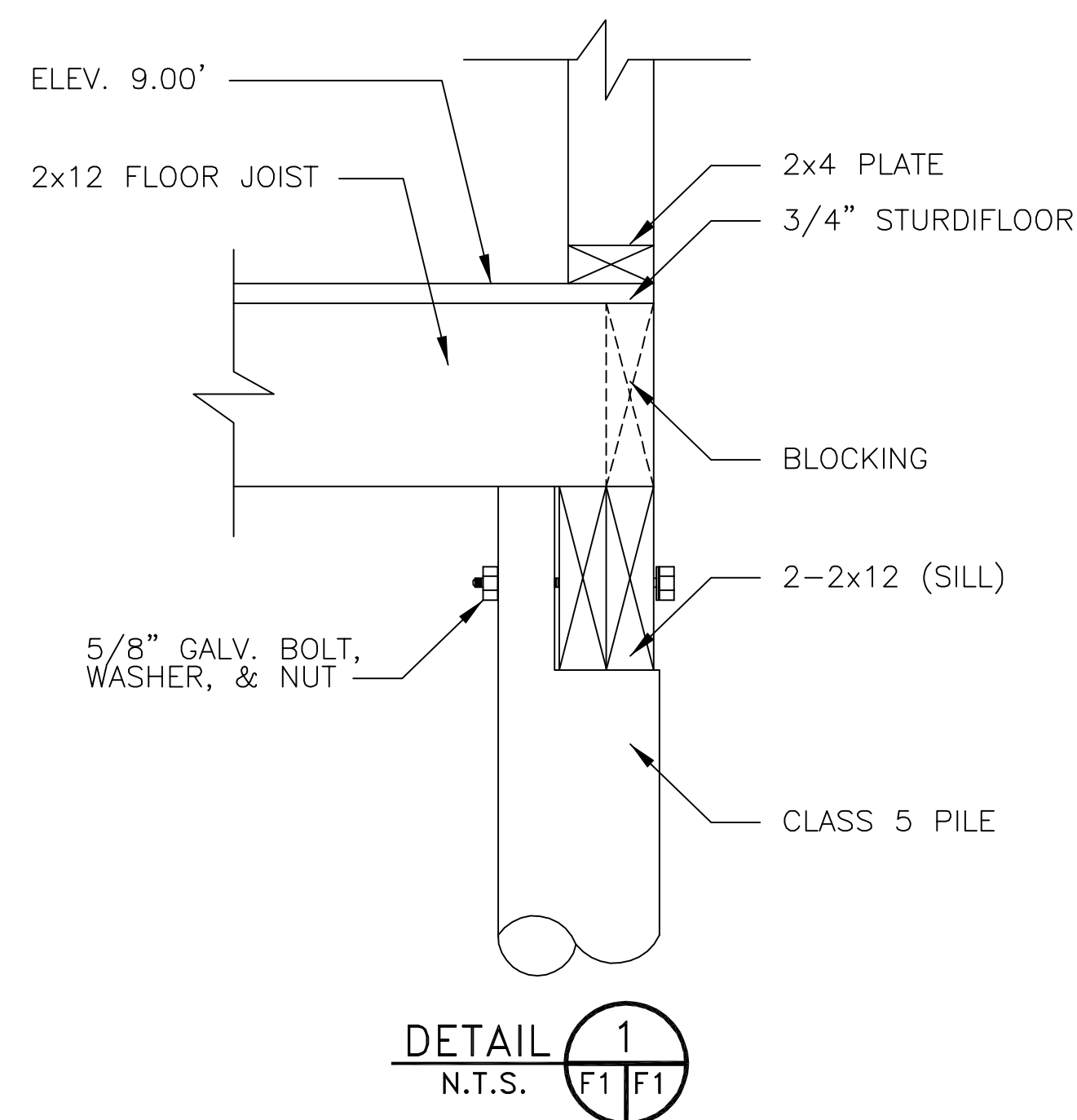
**PILING & FLOOR FRAMING PLAN**  
**ELEV. 9.00'**  
 SCALE: 3/16"=1'-0"

**NOTES:**

1. ALL FRAMING LUMBER EXPOSED TO ELEMENTS SHALL BE TREATED.
2. DOUBLE UP F.J. UNDER WALLS THAT RUN PARALLEL TO JOIST.

**LEGEND**

- - PILING
- - LAYOUT OF WALLS
- - BEAMS

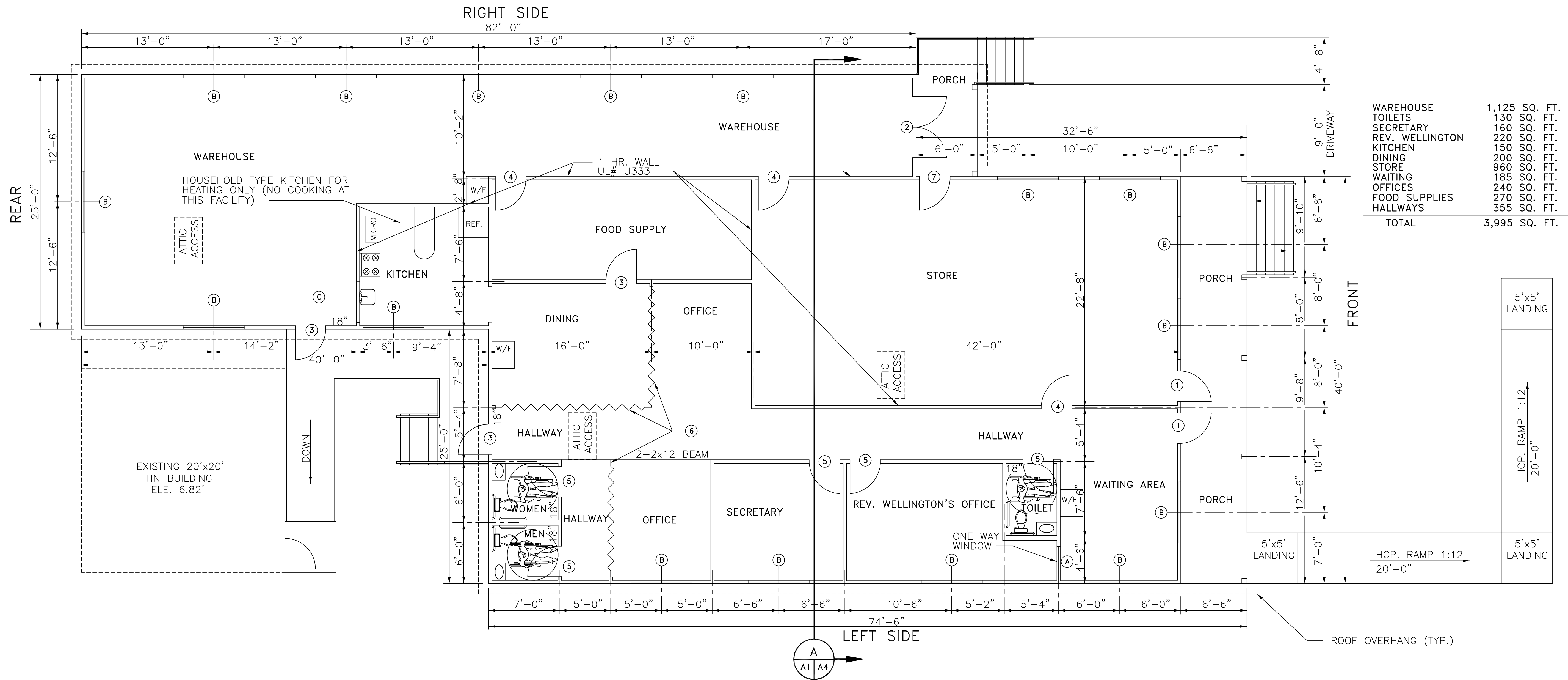


DOOR & HARDWARE SCHEDULE																								
DOOR	TYPE	FRAME		HINGE		LOCK		ACCESSORIES			REMARKS													
		SOLID WOOD	HOLLOW METAL	ALUM./GLASS	STOREFRONT	STEEL	WOOD	DBL. SWING	BUTT	BURGLERPRF.		PASSAGE	PRIVACY	DEADBOLT	KEYED HANDLE	PUSH PULL	PANIC	THRESHOLD	WEATHERSTRIP	DOOR STOP	ALARM	VIEW GLASS	CLOSER	
1	3/0x6/8x1-3/4																							
2	2-3/0x6/8x1-3/4																							
3	3/0x6/8x1-3/4																							
4	3/0x6/8x1-3/4																							
5	3/0x6/8x1-3/4																							1HR. RATED
6	9 FT. HIGH	VINYL COVERED ACCORDION DOOR WITH CEILING TRACK. (MEDIUM GRADE)																						
7	3/0x6/8x1-3/4																							

WINDOW SCHEDULE																								
WINDOW	TYPE	FRAME		GLASS		LITES		ACCESSORIES			REMARKS													
		FIXED	VERTICAL SLIDE	STEEL	ALUMINUM	WOOD	TINTED	PLAIN	INSULATED	2/2		4/4	6/6	8/8	12/12	SCREEN	SHUTTER	NONE	ALARM					
A	3/0x3/0																							
B	6/0x3/0																							
C	3/0x3/0																							1 HR. RATED

FINISH SCHEDULE																
ROOM	FLOOR			BASE		WALLS		CEILING		CLG HT	REMARKS					
	CARPET	VINYL TILE	CONCRETE	CERAMIC TILE	VINYL	WOOD	CERAMIC	BRD. BATTON PLYWOOD	GYP BOARD			CMU	4" WNSCT. CERAM.	BENDED PLYWOOD	GYP BOARD	ACOUSTIC TILE (2x2)
REV. WELLINGTON															9'-0"	
OFFICE															9'-0"	
SECRETARY															9'-0"	
TOILET															9'-0"	
KITCHEN															9'-0"	
DINING															9'-0"	
STORE															9'-0"	
WAREHOUSE															10'-0"	
WAITING AREA															9'-0"	
FOOD SUPPLY															9'-0"	
MEN															9'-0"	
WOMEN															9'-0"	

**NOTE:**  
SEE SHEET A-5 FOR GENERAL NOTES.



WAREHOUSE	1,125 SQ. FT.
TOILETS	130 SQ. FT.
SECRETARY	160 SQ. FT.
REV. WELLINGTON	220 SQ. FT.
KITCHEN	150 SQ. FT.
DINING	200 SQ. FT.
STORE	960 SQ. FT.
WAITING	185 SQ. FT.
OFFICES	240 SQ. FT.
FOOD SUPPLIES	270 SQ. FT.
HALLWAYS	355 SQ. FT.
<b>TOTAL</b>	<b>3,995 SQ. FT.</b>

**FLOOR PLAN**  
SCALE: 3/16"=1'-0"

NOTE: CEILING JOIST SHALL BE FACTORY BUILT ROOF TRUSSES TO SPAN DISTANCES SHOWN.

FLOOR PLAN

CCC  
2228 SECOND STREET  
SLIDELL, LOUISIANA

COMMUNITY CHRISTIAN CONCERN

**DAMMON ENGINEERING, INC.**  
ARCHITECTS - ENGINEERS  
2000 OLD SPANISH TRAIL, STE 100 985-649-5832  
SLIDELL, LA. 70458  
DAMMONENGINEERING.COM

SCALE: AS NOTED

FILE:

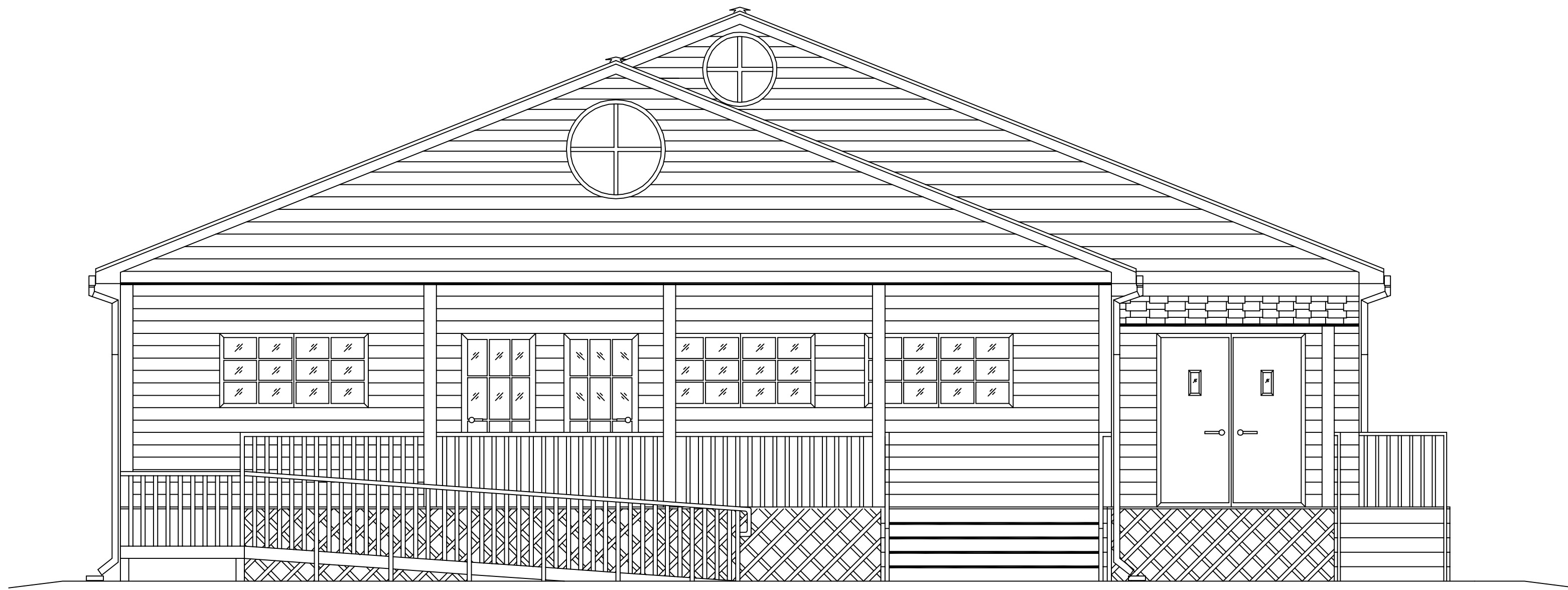
JOB NO. 1461

DATE: 7-14-03

SHEET

A-1

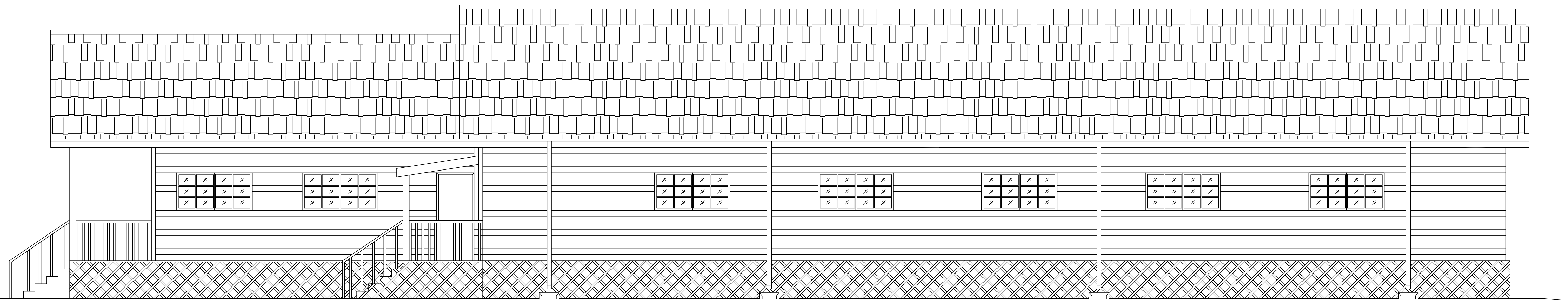
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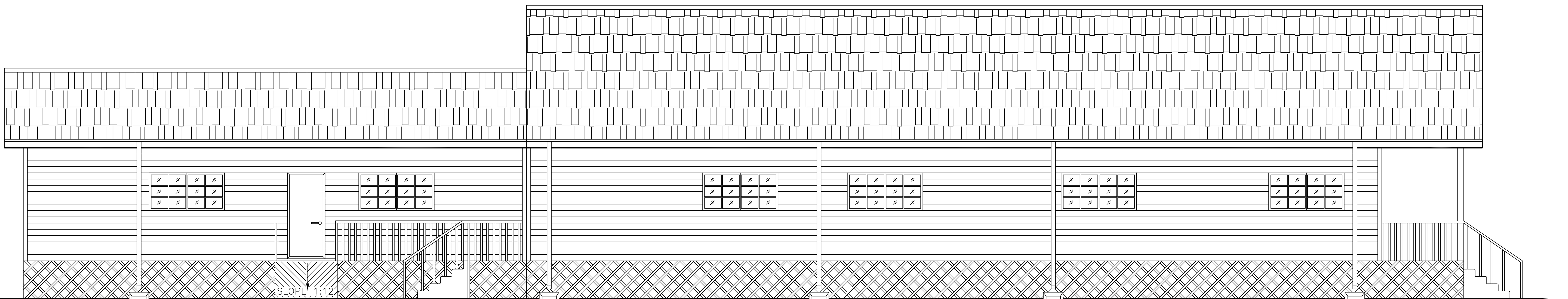
FRONT ELEVATION  
SCALE: 1/4"=1'-0"



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



RIGHT SIDE ELEVATION  
SCALE: 1/4"=1'-0"



LEFT SIDE ELEVATION  
SCALE: 1/4"=1'-0"

ELEVATIONS

CCC  
2228 SECOND STREET  
SLIDELL, LOUISIANA

COMMUNITY CHRISTIAN CONCERN

**D**AMMON ENGINEERING, INC.  
ARCHITECTS - ENGINEERS  
2000 OLD SPANISH TRAIL, STE 100 985-649-5832 SLIDELL, LA. 70458  
DAMMONENGINEERING.COM

SCALE: AS NOTED

FILE:

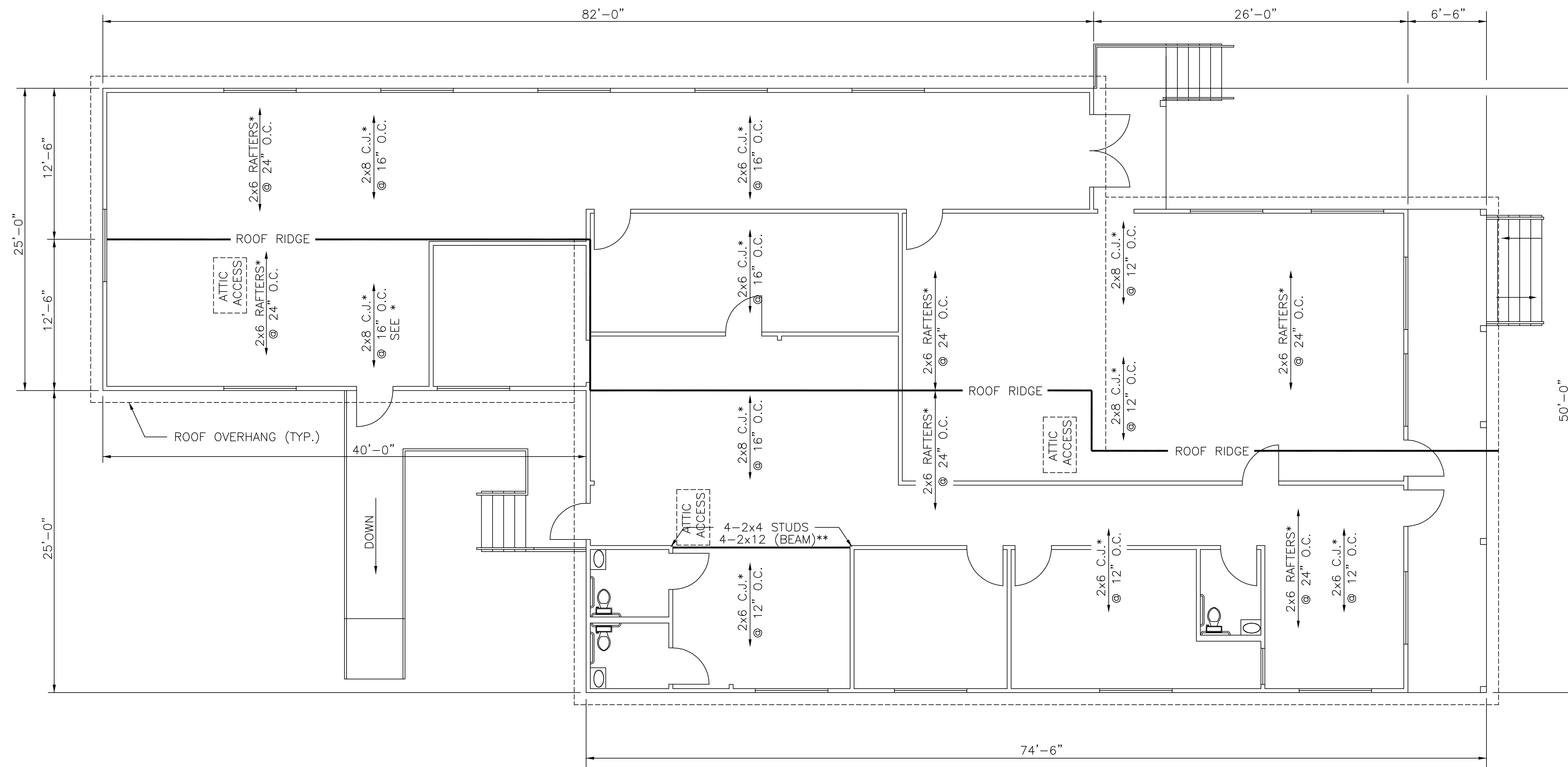
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DATE: 7-14-03

SHEET

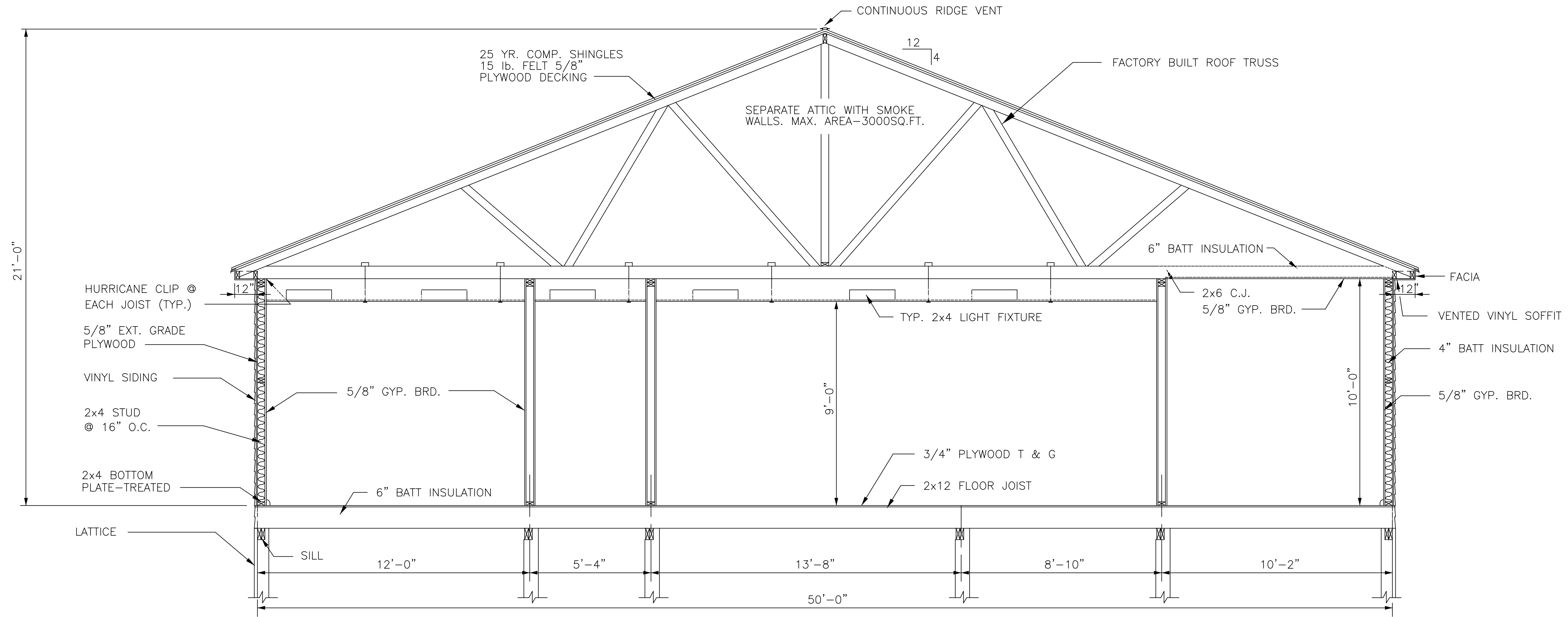
A-2

OF



\* RAFTERS AND CEILING JOIST SHALL BE FACTORY SIZED & ASSEMBLED TRUSSES.

**ROOF & CEILING FRAMING PLAN**  
SCALE: 3/16"=1'-0"



SECTION A  
SCALE: 3/8"=1'-0" A1/A4

**GENERAL NOTES**

1. HANDICAP TOILETS SHALL CONFORM TO THE FOLLOWING.
  - A. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON, AND SHALL HAVE CLEARANCE BELOW FOR HANDICAP KNEE AND TOE. RIM OF LAVATORY SHALL BE NOT MORE THAN 34" HIGH.
  - B. HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR COVERED.
  - C. FAUCETS SHALL BE HANDLE ACTIVATED.
  - D. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NOT MORE THAN 40" FROM THE FLOOR.
  - E. HANDRAILS & GRAB BARS SHALL COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT.
    1. GRAB BARS AT TOILET - REAR 36", 33"-36" ABOVE FLOOR SIDE 42" 33"-36" ABOVE FLOOR.
  - F. WATER CLOSETS SHALL BE LOCATED WITH CENTER LINE 18" FROM SIDE WALL WITH BARS.
2. INSULATION AND INSULATION ASSEMBLES SHALL MEET THE REQUIREMENTS OF SECTION 708 STANDARD BUILDING CODE, 1994 EDITION.
  - A. CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0-75 AND A SMOKE DEVELOPED OF 0-450 EXCEPT THAT IN COMBUSTIBLE (WOOD FRAME) CONSTRUCTION.
  - B. FACING SHALL COMPLY WITH SBC 708.2
3. PROVIDE 5'X5' LANDINGS OUTSIDE EXTERIOR DOORS LEVEL WITH THE FLOOR. THRESHOLDS SHALL BE NOT MORE THAN 1/2" IN HEIGHT AND SHALL BE BEVELED IF MORE THAN 1/4". ALL GROUND AND FLOOR SURFACES SHALL BE NON SLIP.
4. DIMENSIONS ARE TO CENTER LINE OR FACE OF STUDS & TO CENTER LINES OF COLUMNS OR FACE OF BUILDING.
5. CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND BUILDING LOCATION PRIOR TO CONSTRUCTION, & VERIFY ALL DEMINSIONS.
6. MATERIALS SHALL BE NEW AND U.L. LISTED.
7. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
8. CONTRACTOR TO GUARANTEE WORK FOR ONE YEAR.
9. CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
10. EXTERIOR CAULKING SHALL BE THIOKAL CAULK.
11. PAINT GRADE TO BE BENJAMIN MOORE OR EQUAL. ALL WORK TO RECEIVE 3 COATS. COLOR SELECTION BY OWNER.
12. PROVIDE CLEAN-UP ON A REGULAR BASIS. NO TRASH STORED IN BUILDING.
13. ALL BATT INSULATION SHALL HAVE A CLASS "B" (25-75) FLAME SPREAD IN COMPLIANCE WITH APPLICABLE CODE.
14. USE 6" STUDS AT ALL PLUMBING WALLS.
15. PROVIDE GAL. METAL PAN WITH DRAIN AT WATER HEATER LOCATION.
16. BUILDING SHALL BE PROPERLY BRACED FOR WIND LOADS.
17. LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY (INTERIOR SIDE). SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN IN THE DIRECTION OF EGRESS. ALL DOORS SHALL HAVE LEVER TYPE HANDLES.
18. INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPMENT RATING OF 0-450.
19. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL LOCAL STATE AND NATIONAL CODES THAT COVER THE SECTION OF WORK BEING PERFORMED.
20. PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. SEE APPENDIX "E" OF NFPA 10 FOR DISTRIBUTION OF EXTINGUISHERS.
21. ALL FIRE WALLS SHALL EXTEND TIGHT TO ROOF SHEATING & SEALED WITH APPROVED FIRE CAULK.
22. ALL ELECTRICAL, MECHANICAL & PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED.
23. SEE H-1 & H-2 FOR ALL HANDICAPPED REQUIREMENTS.

SECTION  
CCC  
2228 SECOND STREET  
SLIDELL, LOUISIANA

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DAMMONENGINEERING.COM

SCALE: AS NOTED

FILE:

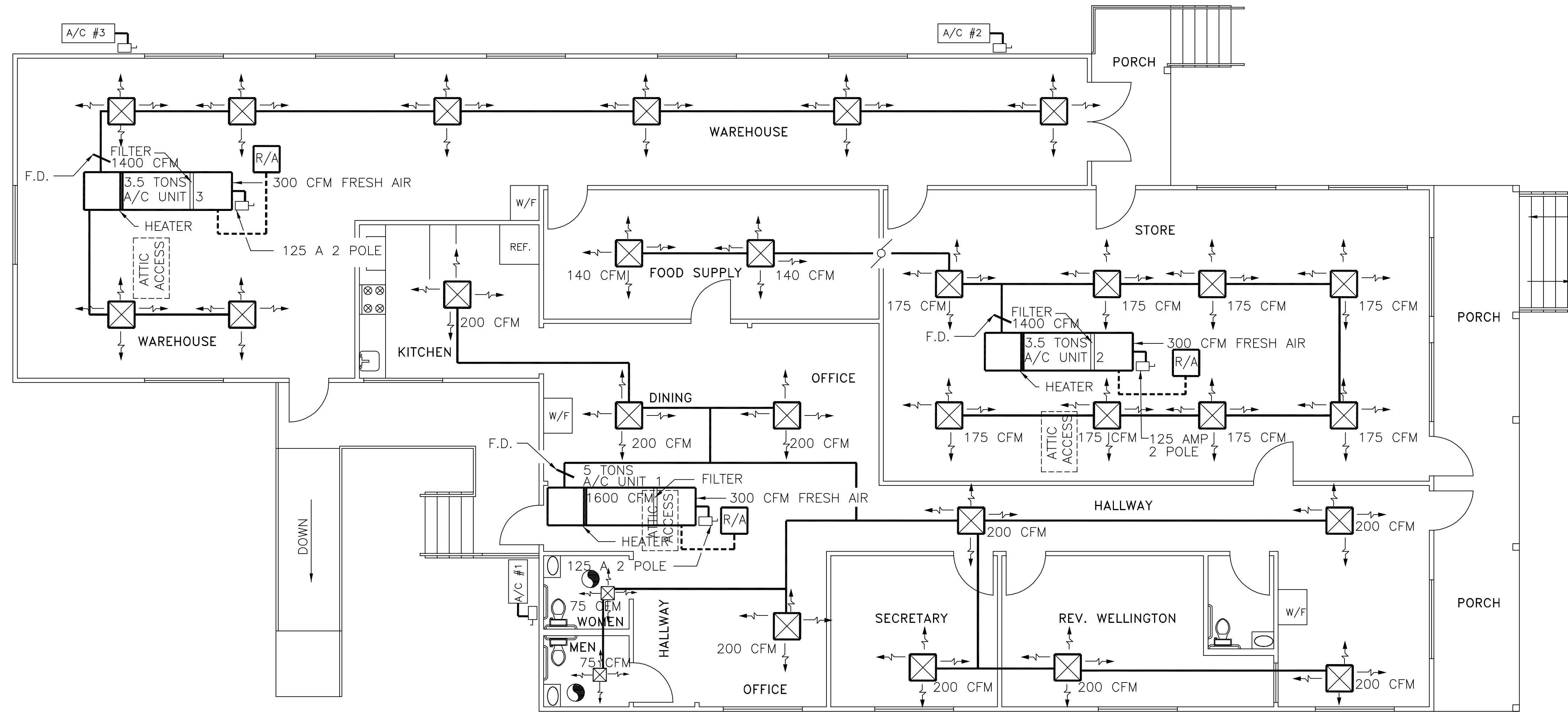
JOB NO. 1461

DATE: 7-14-03

SHEET

A-4

OF



A/C UNIT SCHEDULE								
NO.	TOTAL BTU	CFM	O.A.	HEAT (KW)	ELECTRICAL			COMMENTS
					VOLTAGE	MCA	CKT BRKR	
1	60000	2000	300	15	208V,1 $\phi$	-	-	CARRIER
2	42000	1400	300	15	208V,1 $\phi$	-	-	
3	42000	1400	300	15	208V,1 $\phi$	-	-	

EXHAUST FAN SCHEDULE				
LOC	CFM	VOLTAGE	TYPE	MANF.
TOILETS	200	120	VENT/LIGHT	BROAN

MECHANICAL PLAN  
SCALE: 3/16"=1'-0"

LEGEND

- SUPPLY AIR
- RETURN AIR
- SUPPLY AIR
- RETURN AIR
- BATHROOM EXHAUST
- FIRE DAMPER

HVAC NOTES

- CONCEALED DUCTWORK TO BE UL-181, CLASS I, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 600 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
- EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACNA STANDARDS. LINE WITH NEOPRENE COATED 1.0", 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
- ROUND FLEXIBLE DUCT TO BE UL-181, CLASS I, AIR DUCT MATERIALS.
- DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
- IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS, TO AUTOMATICALLY STOP THE FAN.
- PROVIDE U.L. LISTED 125 F FIRESHOT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN FAN IN THE EVENT OF FIRE.
- PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
- CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
- ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.

- ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
- EXHAUST FAN EQUAL TO BROAN MODEL NO. 100 CF. OR EQUAL. FAN SHALL BE CONTROLLED BY SWITCH ON WALL AT LIGHT SWITCH. PROVIDE BACK DRAFT DAMPER.
- PROVIDE AND INSTALL WATER PROOF GRILLE VENT ON ROOF FOR TOILET EXHAUST.
- ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
- LOCATION OF OUTDOOR UNITS SHALL BE AS SHOWN ON PLAN. MECHANICAL CONTRACTOR SHALL PROVIDE A 4" CONCRETE REINFORCED PAD FOR EACH CONDENSING UNIT.
- REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH ROOF TOP DUCT SUPPLIED WITH A CONTROL DAMPER.
- INSTALL FIRE DAMPER WHERE S.A. & R.A. DUCTS PENETRATE 1 HR. CEILING.

SCALE: AS NOTED

FILE:

JOB NO. 1461

DATE: 7-14-03

SHEET

M-1

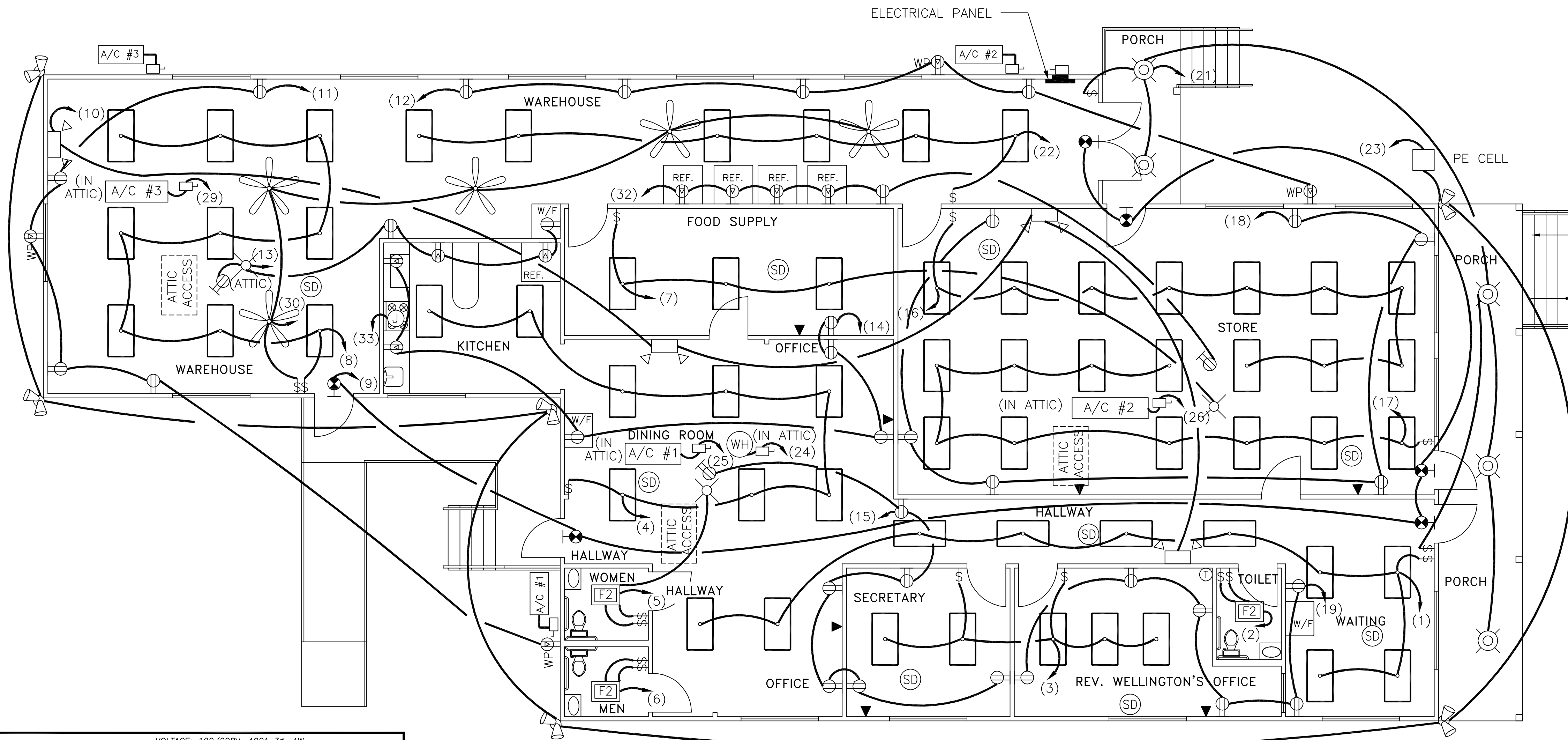
OF

COMMUNITY CHRISTIAN CONCERN

**DAMMON ENGINEERING, INC.**  
ARCHITECTS - ENGINEERS  
2000 OLD SPANISH TRAIL, SUITE 100 985-649-5832 SLIDELL, LA. 70458  
DAMMONENGINEERING.COM

MECHANICAL PLAN

CCC  
2228 SECOND STREET  
SLIDELL, LOUISIANA



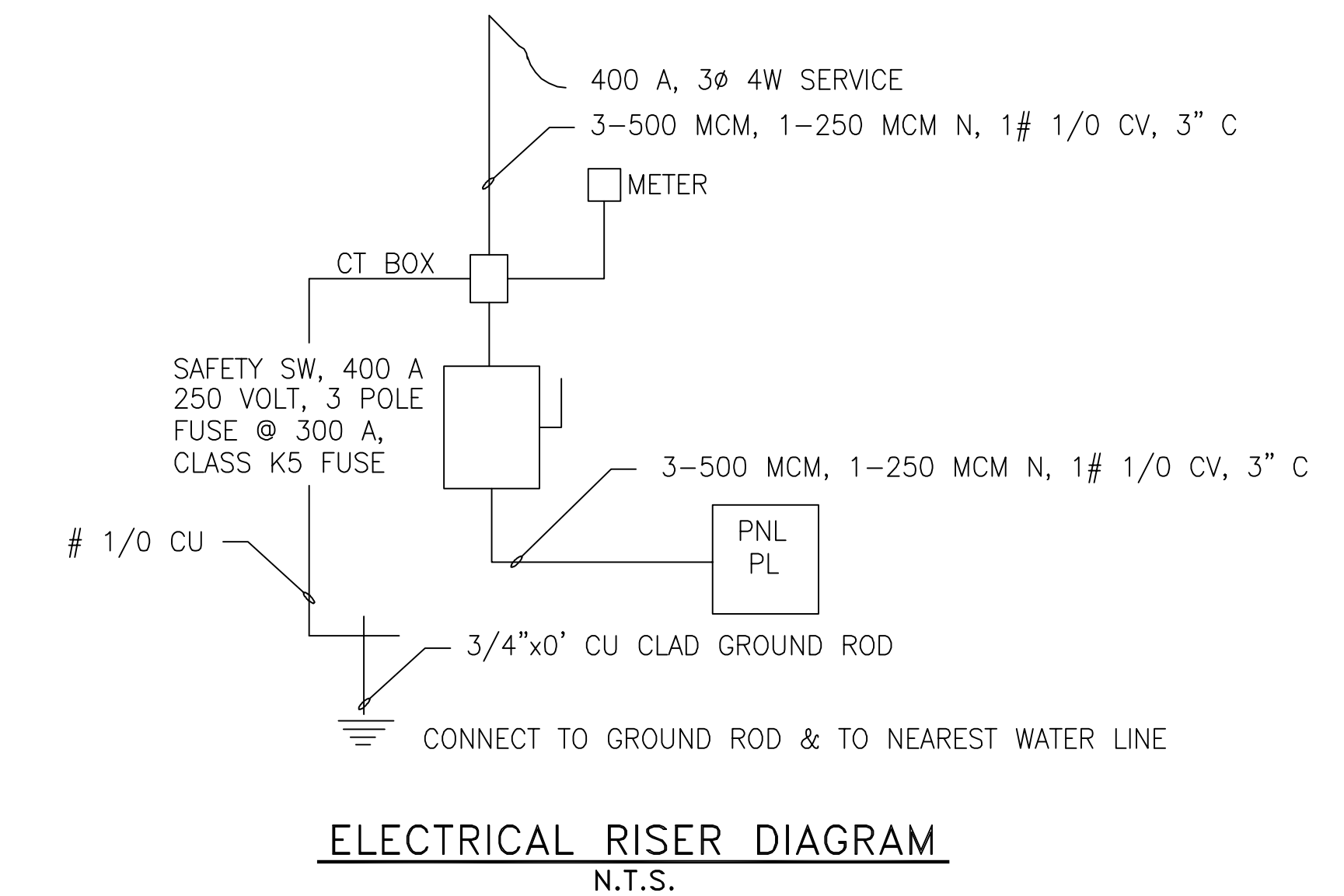
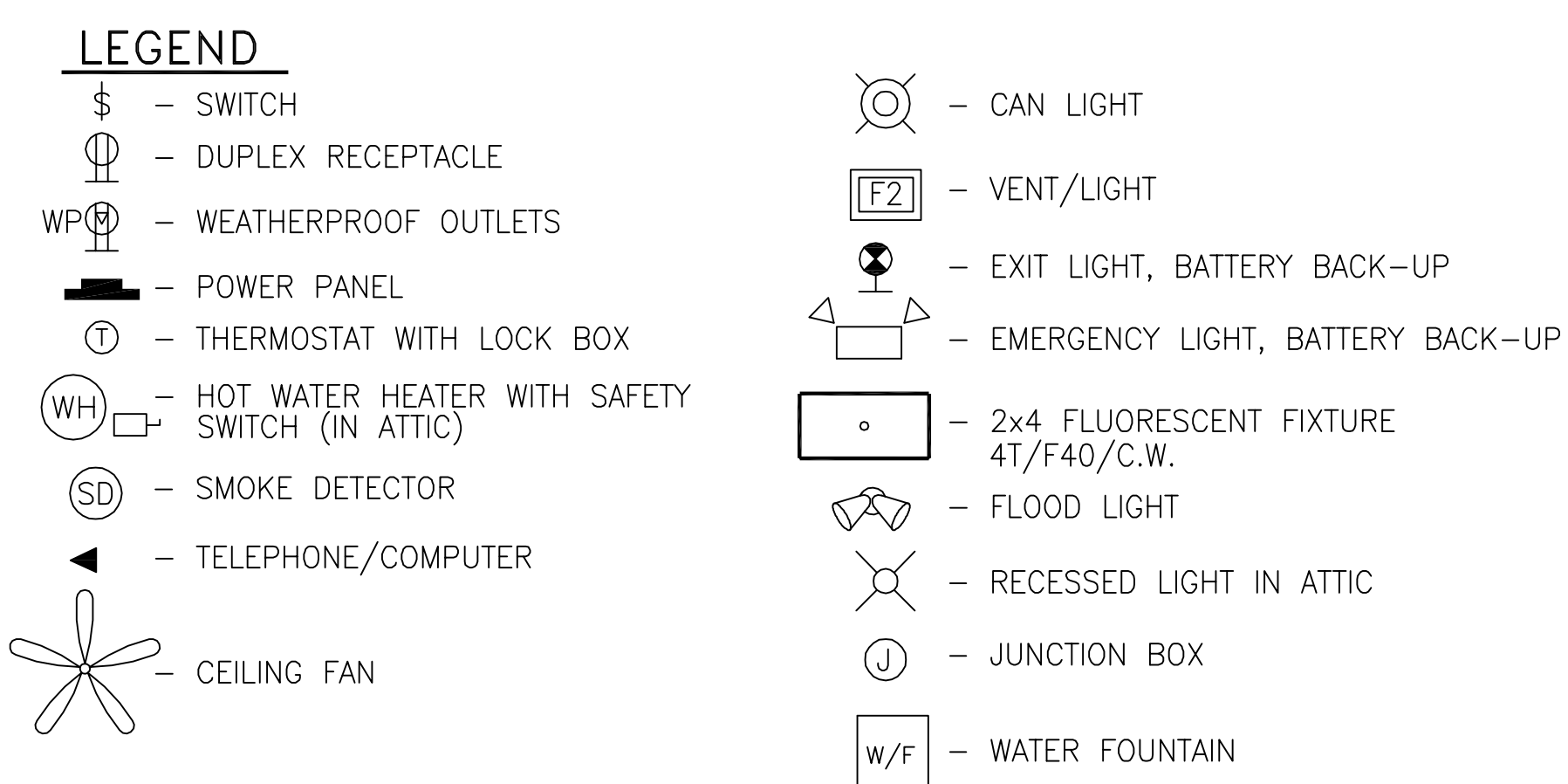
PANEL: PL-1  
LOCATION: REV. OFFICE  
FEEDER SOURCE:

VOLTAGE: 120/208V, 400A 3Ø, 4W  
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GRND BAR  
400A, MLO  
SQUARE D TYPE QO LOAD CENTER

CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER AMP POLE	LOAD (VA)	PHASE			LOAD (VA)	BREAKER AMP POLE	LOAD DESCRIPTION LOCATION	CKT. NO.
				A	B	C				
1	WAITING & HALLWAY LIGHTS	20 1 -					1 20	TOILET VENT/LIGHT	2	
3	REV. & SECRETARY LIGHTS	20 1 -					1 20	DINING & KITCHEN LIGHTS	4	
5	WOMENS TOILET VENT/LIGHT	20 1 -					1 20	MENS TOILET VENT/LIGHT	6	
7	FOOD SUPPLY LIGHTS	20 1 -					1 20	WAREHOUSE LIGHTS	8	
9	EXIT LIGHTS	20 1 -					1 20	EMERGENCY LIGHTS	10	
11	WAREHOUSE OUTLETS	20 1 -					1 20	WAREHOUSE OUTLETS	12	
13	WAREHOUSE & KITCHEN OUTLETS ATTIC LIGHT & OUTLET	20 1 -					1 20	DINING & KITCHEN OUTLETS	14	
15	SECRETARY & OFFICE OUTLETS	20 1 -					1 20	STORE LIGHTS	16	
17	STORE LIGHTS	20 1 -					1 20	STORE OUTLETS	18	
19	WAITING & REV. OUTLETS	20 1 -					1 20	SMOKE DETECTORS	20	
21	PORCH LIGHTS	20 1 -					1 20	WAREHOUSE LIGHTS	22	
23	FLOOD LIGHTS	20 1 -					1 20	HOT WATER HEATER	24	
25	A/C UNIT # 1	40 2 -					2 40	A/C UNIT # 2	26	
27	A/C UNIT # 3	40 1 -					1 20	CEILING FANS IN WAREHOUSE	30	
29	A/C UNIT # 3	40 1 -					1 20	WAREHOUSE OUTLETS	32	
31	COOKTOP	40 1 -					1 20	SPARE	34	
33	SPACE	20 1 -					1 20	SPARE	36	
35	SPACE	20 1 -					1 20	SPACE	38	
37	SPACE	- - -					- - -	SPACE	40	
39	SPACE	- - -					- - -	SPACE	42	
41	SPACE	- - -					- - -	SPACE	42	

TOTAL CONNECTED LOAD (VA)      GROUND BUS  
 A-B      B-B      C-B      GROUND WIRE (G)

**ELECTRICAL PLAN**  
SCALE: 3/16"=1'-0"



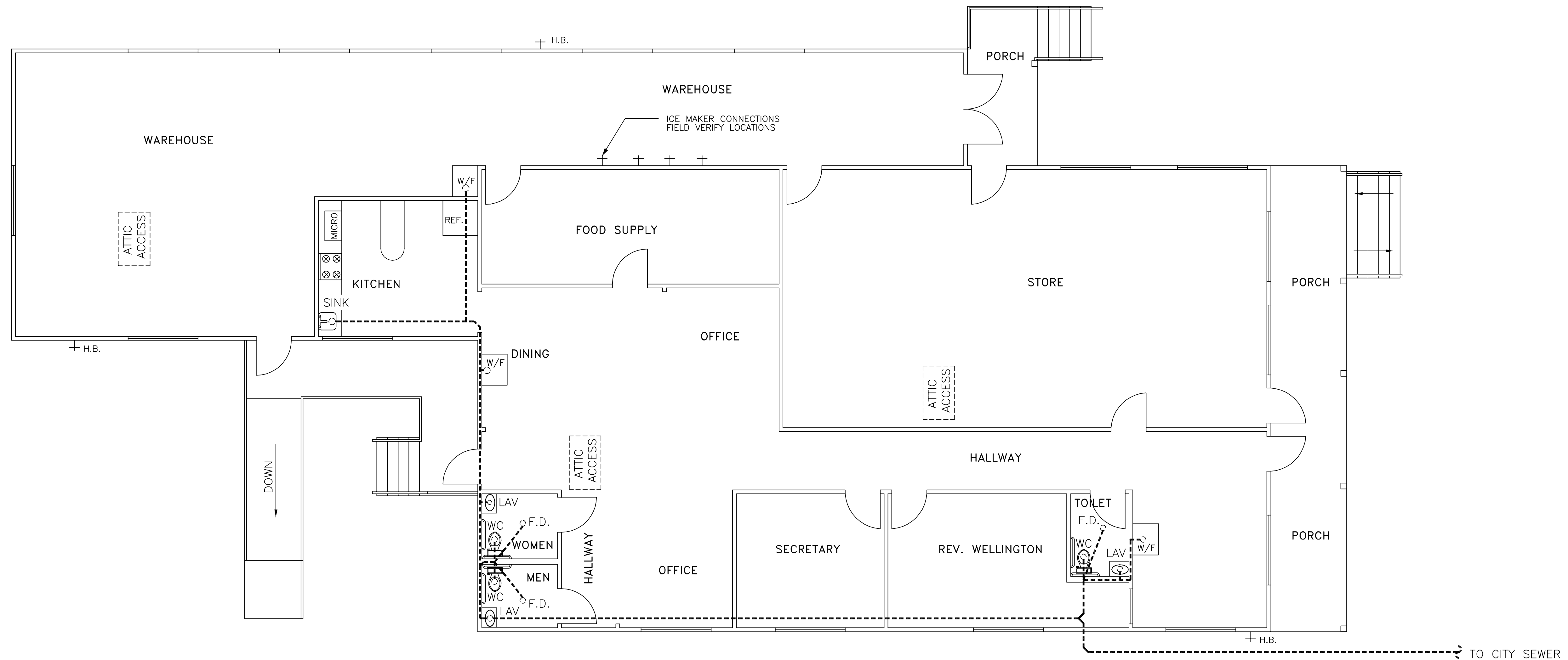
**GENERAL NOTES**

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE, AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
- ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD, UNLESS NOTED OTHERWISE.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
- WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT. AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
- PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
- ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
- MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE IN CONTROL RM BLDG. FOR LIGHTS & RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES.
- CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
- INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WEATHERPROOF.
- BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPA 250-23, 250-71, & 250-72.
- GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
- FUSES SHALL BE IIT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
- PROVIDE SERVICES OF A FIRE/SMOKE DETECTION & ALARM COMPANY TO DESIGN & INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL.

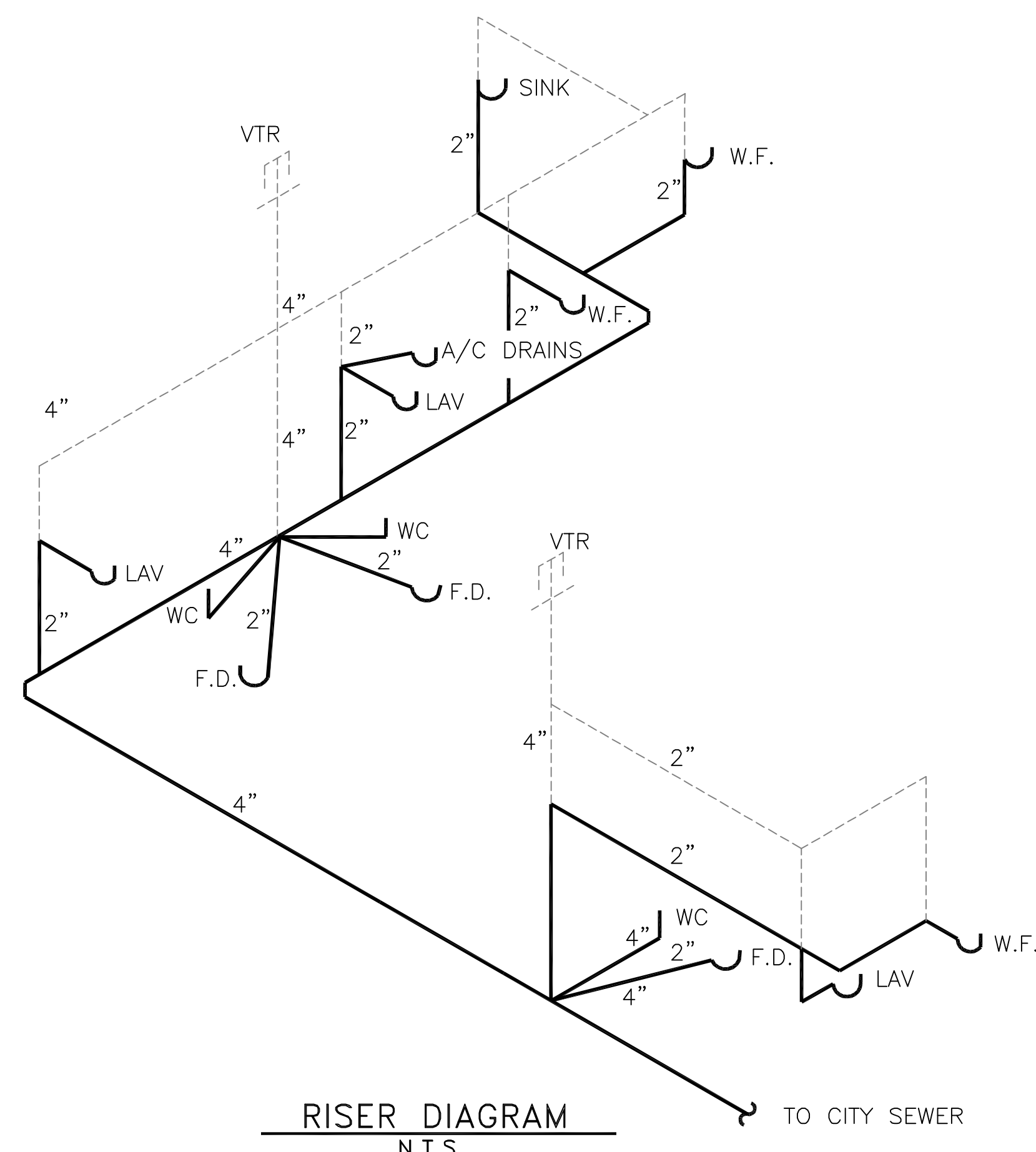
**ELECTRICAL PLAN**  
CCC  
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SCALE: AS NOTED  
FILE:  
JOB NO. 1461  
DATE: 7-14-03  
SHEET  
**E-1**  
OF



**PLUMBING PLAN**  
SCALE: 3/16"=1'-0"



**RISER DIAGRAM**  
N.T.S.

MARK	DESCRIPTION	TYPE	ROUGH-IN-SIZES				NOTES
			WASTE	VENT	CW	H.W.	
WC	H.C. WATER CLOSET	VALVE	4"	4"	1"	-	3
LAV	H.C. LAVATORY	WALL HUNG	2"	2"	1/2"	1/2"	1, 2, 3
F.D.	FLOOR DRAIN	-	2"	2"	-	-	4
SINK	SINK	WALL HUNG	2"	2"	1/2"	1/2"	-
W.F.	WATER FOUNTAIN	WALL HUNG	2"	2"	1/2"	-	-

- NOTES:**
1. INSULATE PIPING FOR HANDICAP FIXTURE.
  2. PROVIDE CHAIR CARRIER FOR WALL HUNG FIXTURE.
  3. H.C. - HANDICAP FIXTURE
  4. INSTALL CONTINUOUS DRIP ON ALL FLOOR DRAINS.

- LEGEND**
- - - - - SANITARY SEWER
  - RISER DIAGRAM SEWER
  - - - - - PIPE VENT

**PLUMBING NOTES:**

1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME. CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
2. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL CITY, PARISH, STATE AND NATIONAL GOVERNING CODES.
3. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
4. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEWERAGE AND DRAINAGE PIPES.
5. SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES 4-INCH AND LARGER SHALL BE 1/8" PER FOOT.
6. TEST ALL PIPING AT REQUIRED PRESSURE.
7. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL SYSTEM, MECHANICAL SYSTEM AND ELECTRICAL TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
8. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
9. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS FIELD VERIFIED.
10. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K, SOFT ANNEALED. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
11. DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATERTUBE, TYPE L. HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SOLDERED TYPING USING ASTM B32, ALLOY GRADE 95A 95-5) SOLDER.
12. SOIL, WASTE, VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET. USE PVC SCHEDULE 40 OR ABS DWV PIPES AND FITTINGS WHERE PERMITTED BY CODE.
13. ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION AND JACKET.
14. ALL ELECTRICAL, MECHANICAL & PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED.