

GENERAL REQUIREMENTS	
1.	WORK PERFORMED SHALL COMPLY WITH THESE GENERAL NOTES UNLESS OTHERWISE NOTED ON PLANS.
2.	ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS.
8.	DIMENSIONS SHALL BE READ OR CALCULATED AND NEVER SCALED. ALL DIMENSIONS ARE TO THE ROUGH UNLESS NOTED OTHERWISE.
9.	DISCREPANCIES: THE CONTRACTOR SHALL COMPARE & COORDINATE ALL DRAWINGS; WHEN IN THE OPINION OF THE CONTRACTOR, A DISCREPANCY EXISTS HE SHALL PROMPTLY REPORT IT TO THE DESIGNER OR PROPER ADJUSTMENT BEFORE PROCEEDING.
10.	OMISSIONS: IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, THE CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED.
11.	ALL WORK IS TO BE PERFORMED IN A PROFESSIONAL MANNER AND IN ACCORDANCE WITH STANDARD PRACTICE AND SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.
12.	THE GENERAL AND SUB-CONTRACTORS SHALL CAREFULLY EXAMINE THE DRAWINGS INSPECT THE SITE AND ACQUAINT THEMSELVES WITH ALL GOVERNING ORDINANCES, LAWS, ETC. AND OTHERWISE FAMILIARIZE THEMSELVES WITH ALL MATTERS WHICH MAY AFFECT PERFORMANCE OF THE WORK.
13.	THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.
14.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING AND SHORING, AS REQUIRED, TO ENSURE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR PORTION THEREOF DURING CONSTRUCTION.
15.	ALL WALLS ARE DESIGNED AS Laterally Braced by the Floor and Roof Systems. Contractor shall ensure that walls are adequately braced during construction.
16.	NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND OWNER.

FIELD VERIFICATION
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS
APPLICABLE CODES

1.	ALL WORK AND MATERIAL SHALL COMPLY WITH REQUIREMENTS OF LATEST IRC ADAPTED BY THE DISTRICT OF COLUMBIA.
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EXISTING CONDITIONS

A. ALL EXISTING BEAMS, COLUMNS, LINTELS, ANGLES AND JOISTS TO REMAIN INTACT UNLESS SPECIFICALLY NOTED TO BE REMOVED BY MOST RECENT DEMOLITION DOCUMENTS OR OTHERWISE NOTED ON THESE DRAWINGS.

B. INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING IS BASED ON AVAILABLE DESIGN DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR TO CONTACT STRUCTURAL ENGINEER UPON DISCOVERY OF ANY DISCREPANCY BETWEEN CONTRACT DRAWINGS AND ACTUAL EXISTING CONDITIONS.

C. THE PORTIONS OF THE BUILDING THAT ARE SHOWN TO BE STRUCTURALLY MODIFIED HAVE BEEN DESIGNED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRACTICE. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR ANY DAMAGE THAT MAY ARISE FOR ANY PORTION OF THE BUILDING NOT REDESIGNED, ALTERED OR CONSTRUCTED UNDER THIS SET OF DESIGN DRAWINGS OR OF DEFICIENCIES IN THE CONDITION OF THE BUILDING PRIOR TO RENOVATION.

COORDINATION
COORDINATE ALL SLEEVES DUCT OPENINGS AND HOLES BETWEEN TRADES. ANY CONDUITS OR PIPES EMBEDDED IN CONCRETE MUST BE IN ACCORDANCE WITH ACI 318. NO SLEEVE SHALL BE PLACED WITHIN 6" OF ANY COLUMN WITHOUT THE APPROVAL OF THE ENGINEER. SLAB BARS TO BE SPACED TO CLEAR SLEEVES BY 1½" MINIMUM AND 1½" MINIMUM CLEAR BETWEEN BARS IS TO BE MAINTAINED. WHERE SLEEVES ARE CLOSELY SPACED IN A GROUP, THE GROUP SHALL BE TREATED AS AN OPENING AND REINFORCED ACCORDINGLY. SUBMIT DRAWINGS SHOWING ALL OPENING SIZES AND LOCATIONS FOR APPROVAL BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

EARTHWORK

1. THE SOIL BEARING PRESSURE FOR ALL FOOTINGS IS ASSUMED TO BE 1500 PSF. SHOULD UNSTABLE SOILS BE ENCOUNTERED, FOOTINGS SHALL BE EXCAVATED AND REPLACED WITH LEAN CONCRETE, $F_c=2000$ PSI.
2. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'6" BELOW EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
3. ALL FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL AND SHALL BE SELECTED ON THE BASIS OF LABORATORY COMPACTION TESTS, HAVING A LIQUID LIMIT LESS THAN 40, A PLASTICITY LESS THAN 15. FILL PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED TO 95% OF THE DRY DENSITY OBTAINED BY ASTM D1557, MODIFIED PROCTOR METHOD.

MASONRY

1. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD BEARING UNITS (ASTM C90) GRADE N-1 WITH A NET STRENGTH OF 2000 PSI AND F'M-1350 PSI.
2. ALL FACE BRICK MASONRY UNITS SHALL CONFORM TO ASTM C216 ND C652, GRADE MW OR SW, TYPE FBS, FBX, OR FBA. WITH MINIMUM COMPRESSIVE STRENGTH = 6000 PSI.
3. ALL JOINTS TO BE FILLED SOLID WITH MORTAR.
4. MASONRY MORTAR TO COMPLY WITH ASTM C270 TYPE S FOR HOLLOW CMU WALLS AND TYPE N FOR VENEER WALLS.
5. BRICK TIES SHALL BE ATTACHED TO ALL BRICK VENEER SPACED AT 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY (MAXIMUM). CORRUGATED TIES ARE PROHIBITED FOR WALLS WITH CAVITIES OVER 1". TIES SHALL EXTEND 3" INTO BRICK AND/OR CMU.
6. TIE MATERIAL SHALL CONFORM TO ASTM A366 AND ASTM A153, CLASS B2, HOT DIP GALVANIZED (1.5 OZ/SF.) STEEL WIRE SHALL CONFORM TO ASTM A82.
7. 9 GAGE (TRUSS-TYPE/LADDER TYPE) REINFORCEMENT SHALL BE PROVIDED IN ALL MASONRY WALLS AT A MAXIMUM OF 16" OC. (EVERY OTHER COURSE) UNLESS OTHERWISE NOTED. USE PREFABRICATED L'S AND T'S AT ALL CORNERS AND INTERSECTIONS. REINFORCEMENT SHALL BE LAPPED AT A MINIMUM OF 12".
8. GROUT FOR MASONRY SHALL BE 2500 PSI PEA GRAVEL CONCRETE WITH A SLUMP OF 9". HEIGHT OF POUR SHALL BE LIMITED TO 32" MAXIMUM. GROUT SHALL BE PLACED WITHIN 1½ HOURS AFTER WATER IS FIRST ADDED TO MIX. GROUTING SHALL BE DONE IN A CONTINUOUS POUR. IT SHALL BE CONSOLIDATED BY RODDING OR VIBRATING DURING PLACEMENT AND THEN RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ADSORBED. ALL REINFORCED MASONRY SHALL BE IN ACCORDANCE WITH ACI 67-23A. ALL BAR LAPS SHALL BE 2'-0", UNLESS NOTED OTHERWISE.
9. ALL MASONRY WORK SHALL BE IN CONFORMANCE WITH THE "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1-02/ASCE 6-02/TMS 602-02.

LUMBER

1. DIMENSIONED LUMBER SHALL BE HEM-FIR, DOUGLAS FIR, OR SPRUCE-PINE-FIR WITH MIN. $F_b = (1200PSI)$ MIN., $F_v = (70PSI)$ MIN., $E = (1,400,000PSI)$ AND A MAXIMUM MOISTURE CONTENT OF 19%, AS CERTIFIED BY AN NFPA APPROVED AGENCY.
2. ALL EXPOSED LUMBER SHALL BE PRESSURE TREATED.
3. MICRO-LAM LUMBER SHALL HAVE MIN. $F_b = (2600PSI)$ AND MIN. $F_v = (285PSI)$ WITH DRESSED SIZED DIMENSIONS NOT LESS THAN THOSE SHOWN IN PLAN.
4. PROVIDE 16 GA. JOIST HANGERS OR ANGLE CLIPS TO ALL JOIST CONNECTIONS WHERE THERE IS NO DIRECT BEARING SUPPORT WITH A CAPACITY OF 120% OF ALLOWABLE UNIFORM LOAD END REACTION FOR THE GIVEN SPAN.
5. NAIL ALL MULTIPLE 2X BEAMS COLUMNS TOGETHER WITH MINIMUM 10d NAILS @ 12" O.C. STAGGERED UNLESS NOTED OTHERWISE.
6. PROVIDE BLOCKING BETWEEN ALL JOISTS AT BEARING.
7. PROVIDE BRIDGING/BLOCKING AT THE CENTER OF SPAN OF JOISTS & STUDS OR INTERVALS NOT EXCEEDING 6 FEET.
8. SPACE MEMBERS AT 16" O.C. UNLESS NOTED OTHERWISE.
9. DO NOT CUT HOLES IN MEMBERS WITHOUT APPROVAL OF A/E

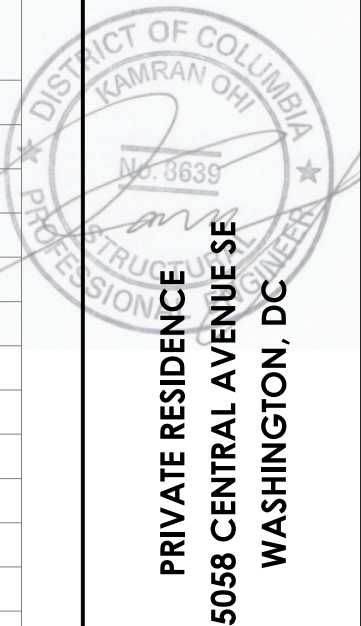
THERMAL & MOISTURE PROTECTION: DAMP PROOFING	
1.	IN AREAS WHERE A HIGH WATER TABLE OR OTHER SEVERE SOIL-WATER CONDITIONS ARE KNOWN TO EXIST, EXTERIOR FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE HABITABLE OR USABLE SPACES LOCATED BELOW GRADE SHALL BE WATERPROOFED WITH A MEMBRANE EXTENDING FROM THE TOP OF THE FOOTING TO FINISHED GRADE. THE MEMBRANE SHALL BE LAPPED AND SEALED WITH AN ADHESIVE COMPATIBLE WITH THE WATERPROOFING MEMBRANE.

PROJECT NARRATIVE
INTERIOR RENOVATION AND CONVERSION OF SINGLE-FAMILY SEMI-DETACHED DWELLING TO 2-UNIT FLAT. RENOVATIONS INCLUDE LOWERING OF BASEMENT CONCRETE SLAB, ADDING A NEW BASEMENT ENTRY AT REAR OF PROPERTY, AS WELL AS NEW MECHANICAL, ELECTRICAL AND PLUMBING.

APPLICABLE BUILDING CODES	
THIS PROJECT CONFORMS TO ALL APPLICABLE BUILDING CODES & ZONING REGULATIONS FOR THE DISTRICT OF COLUMBIA. ALL CODES SUBJECT TO THE DISTRICT OF COLUMBIA CONSTRUCTION CODES 2012 SUPPLEMENT AMENDMENTS AND ALL REVISIONS	
BUILDING IBC 2012:	INTERNATIONAL BUILDING CODE - 2012, DCMR 13A
MECHANICAL IMC 2012:	INTERNATIONAL MECHANICAL CODE - 2012, DCMR 13E
PLUMBING IPC 2012:	INTERNATIONAL PLUMBING CODE - 2012 DCMR 13F
ELECTRICAL: 2011 NEC/NFPA 70 - NATIONAL ELECTRICAL CODE, DCMR13C	
FIRE IFC 2012:	INTERNATIONAL FIRE CODE - 2012, DCMR 13H
ENERGY IECC 2012:	INTERNATIONAL ENERGY CONSERVATION CODE - 2012 DCMR13I
FUEL IFGC 2012:	INTERNATIONAL FUEL GAS CODE - 2012, DCMR 13D
EXISTING BLDG IEBC 2012:	INTERNATIONAL EXISTING BLDG CODE - 2012, DCMR 13J
PROPERTY IPMC 2012:	INTERNATIONAL PROPERTY MAINTANCE CODE - 2012, DCMR 13G
AMENDMENTS:	DCMR13 BUILDING CODE REGULATIONS, 2012
ZONING:	DCMR TITLE 11 - ZONING REGULATIONS

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT:	
CLIMATE ZONE: 4-EXCEPT MARINE	
FENESTRATION U-FACTOR	0.35
SKYLIGHT U-FACTOR	0.60
GLAZED FENESTRATION - SHGC	0.55
CEILING R-VALUE	49
WOOD FRAME WALL	20
MASS WALL R-VALUE	8/13
FLOOR R-VALUE	19
BASEMENT WALL R-VALUE	10/13
SLAB R-VALUE & DEPTH	10, 2FT
CRAWL SPACE R-VALUE	10/13

<div><div></div><div>1. REDI-EXIT® GALVANIZED (90G) CORRUGATED STEEL WINDOW WELL OR STAKWEL® WINDOW WELLS</div><div></div></div> <div><div></div><div>2. EACH LADDER RUNG IS 12" FROM RUNG TO RUNG, 16" WIDE, AND PROJECTS 4" INTO THE WELL</div><div></div></div>	
1	WINDOW WELL W/LADDER SCALE: NTS



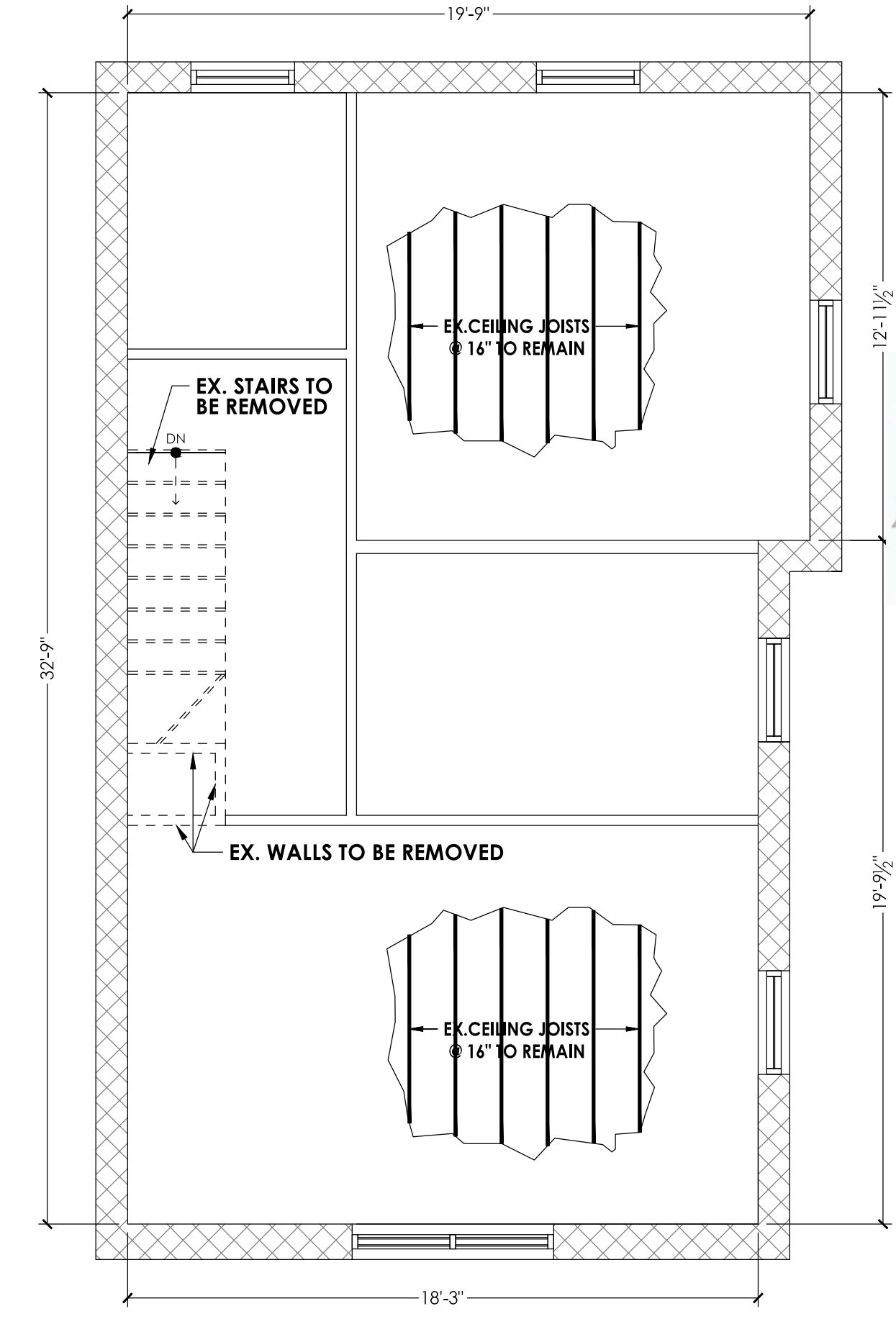
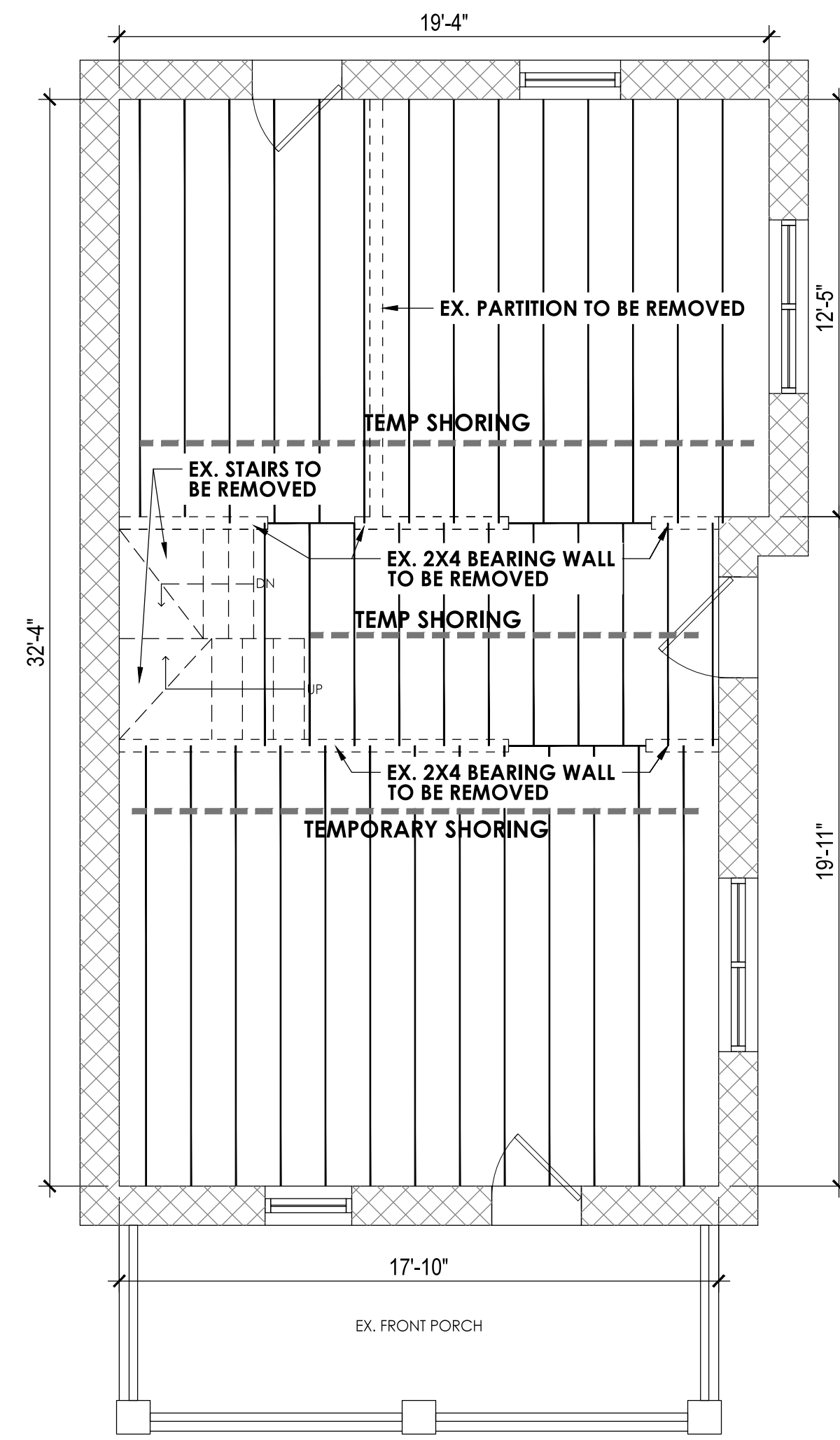
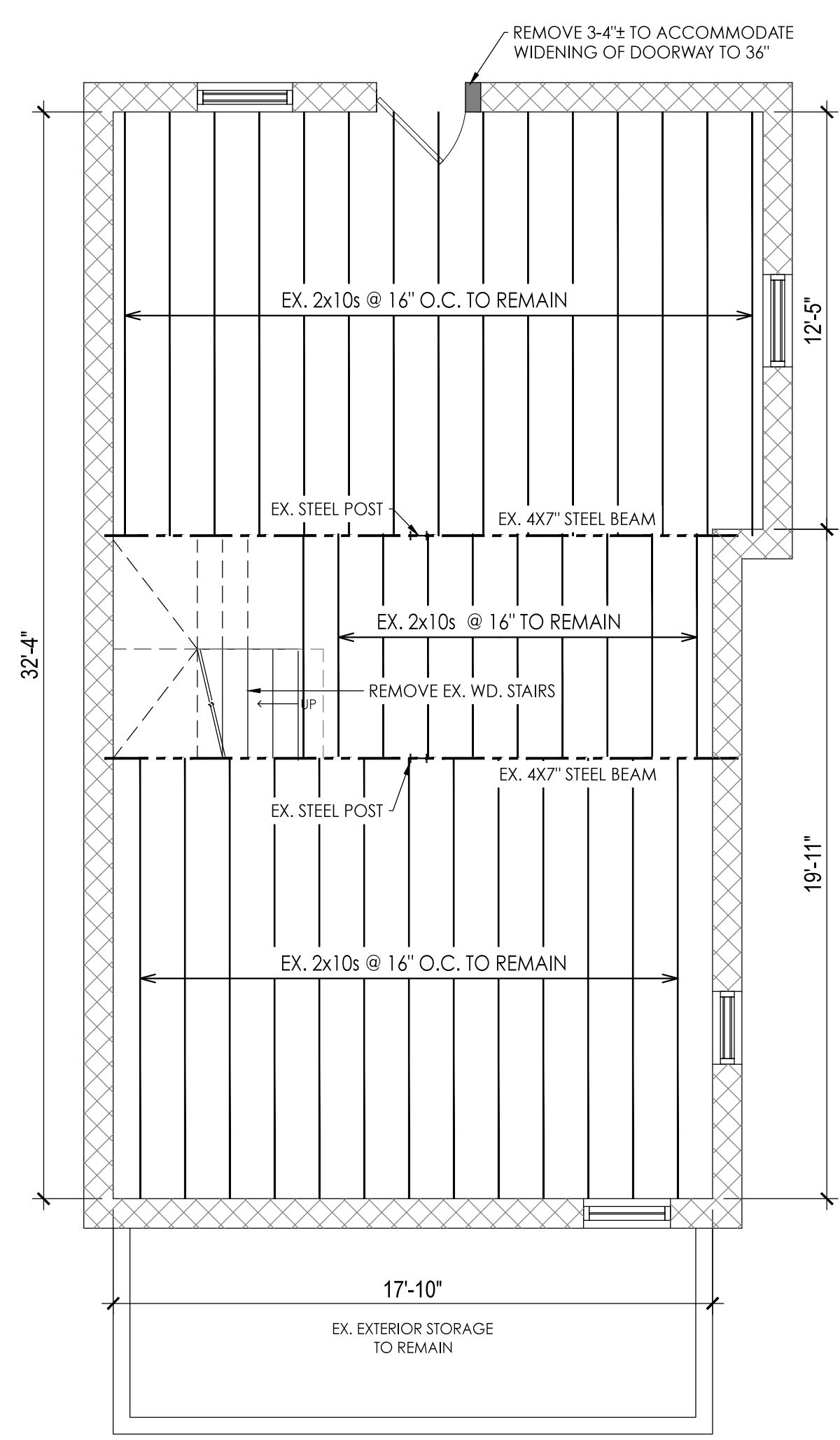


**STRUCTURAL
CERTIFICATION:**
Structural plans
certified as provided
in Section 106.1.4.1 of
D.C. Construction
Codes.

CONCLUSIONS

ECT No. _____
December 4, 2016
E: AS SHOWN

PROPOSED DOOR PLANS



1 BASEMENT DEMO PLAN
SCALE: 1/4" = 1'-0"

2 1ST FLOOR DEMO PLAN
SCALE: 1/4" = 1'-0"

3 2ND FLOOR PLAN DEMO PLAN
SCALE: 1/4" = 1'-0"

PROJECT DESCRIPTION

INTERIOR RENOVATION OF EXISTING 2-STORY+CELLAR SEMI-DETACHED ROWHOUSE AND CONVERSION TO 2-UNIT FLAT. RENOVATION INCLUDES LOWERING OF BASEMENT SLAB TO 5-INCHES AS WELL AS A NEW BASEMENT ENTRY AT THE REAR OF THE PROPERTY.

LAND DISTURBANCE

DISTURBED AREA: 700 SF

CONSTRUCTION ENTRANCE: SCE

VOLUME OF EXCAVATION: 20 CUBIC YARDS

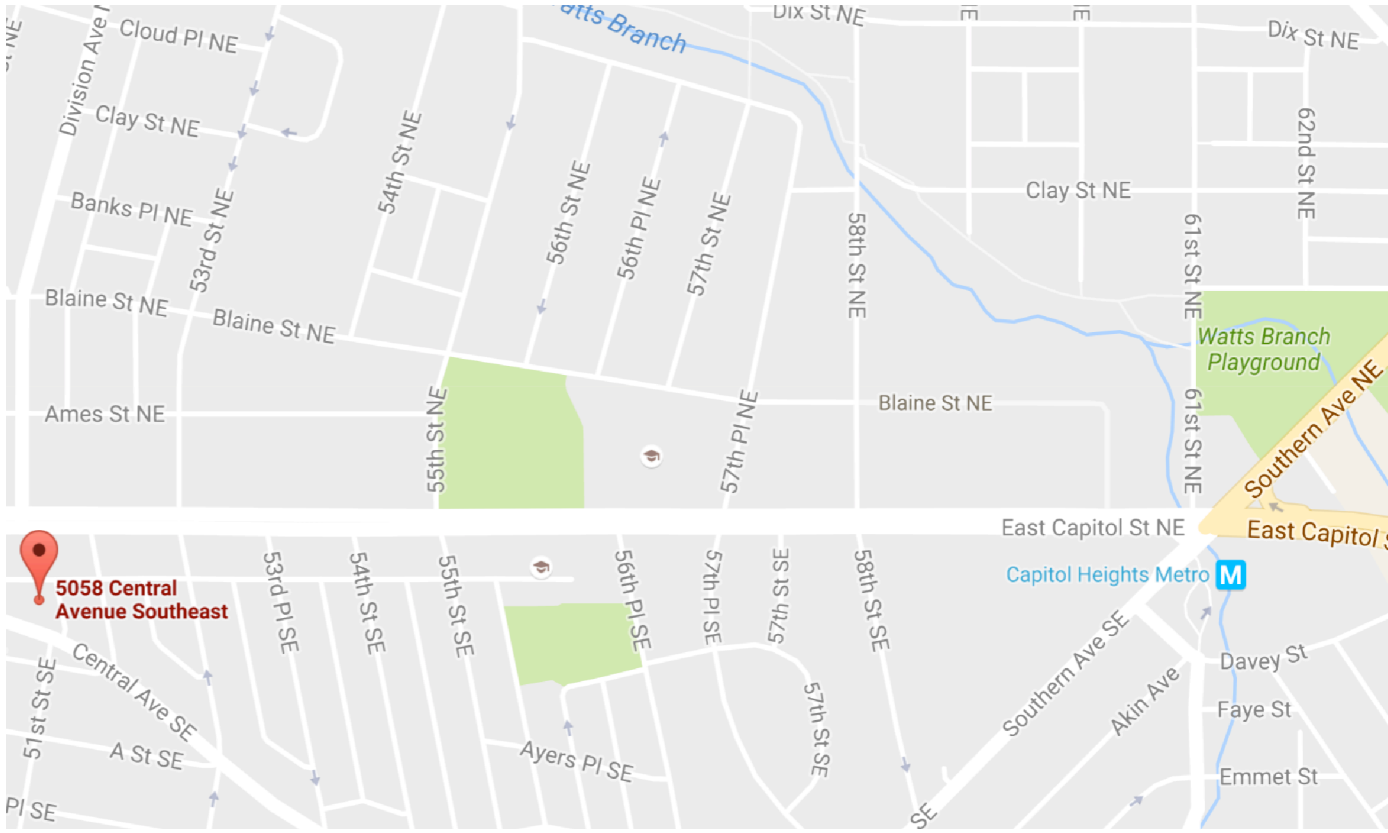
LIMIT-OF-DISTURBANCE: LOD

SILT FENCE: SF

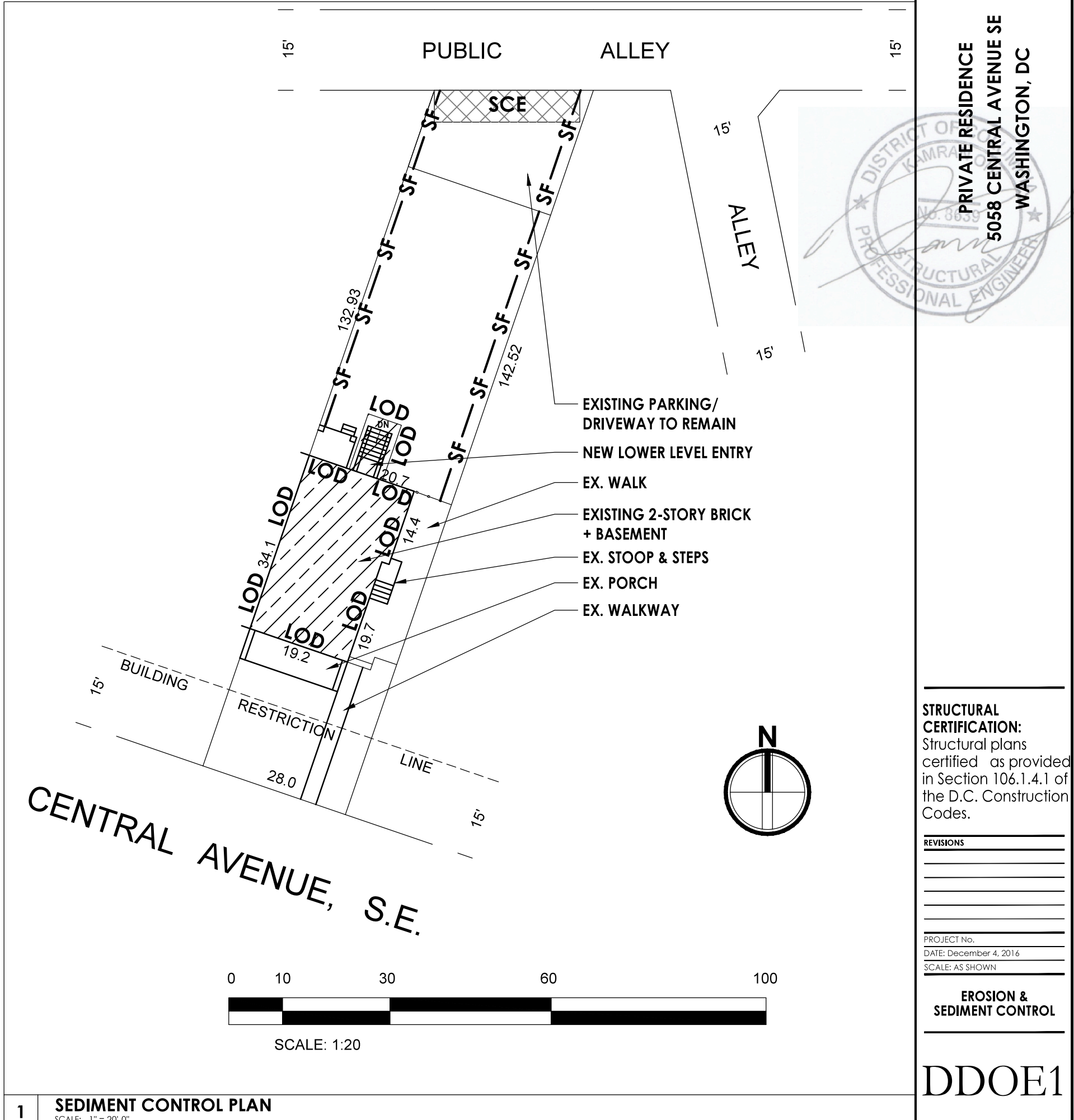
NOTES / CONSTRUCTION SEQUENCE

- CONTRACTOR TO COORDINATE A PRE-CONSTRUCTION MEETING WITH SEDIMENT CONTROL INSPECTOR OF DISTRICT DEPARTMENT OF THE ENVIRONMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION/LAND DISTURBANCE. MEETING TO BE SCHEDULED BY CALLING: 202.535.2240
- INSTALL SILT FENCE AND SECURE STABILIZED CONSTRUCTION ENTRANCE AS SHOWN.
- REMOVE EXISTING VEGETATION AND PROVIDE TREE PROTECTION, AS NEEDED.
- CONTRACTOR TO COMPLY WITH DC SEDIMENT CONTROL REQUIREMENTS.
- AFTER CONSTRUCTION COMPLETION AND APPROVAL OF SEDIMENT CONTROL OFFICER FROM DISTRICT DEPARTMENT OF THE ENVIRONMENT, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE MAY BE REMOVED.

VICINITY MAP



PORTABLE SEDIMENT TANK DETAIL	SUMP PIT DETAIL	STRAW BALE DIKE DETAIL	STANDARDS AND SPECIFICATIONS FOR DUST CONTROL	STANDARD SYMBOLS												
<p>CONSTRUCTION NOTES</p> <ol style="list-style-type: none">CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET AND THE APPROVAL IS FROM THE APPROVING AGENCY.ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.TANK STORAGE VOLUME REQUIRED = 14 CUBIC FEET OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. MULTIPLE TANKS MAY BE USED.	<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none">PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER.THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE, THEN WEAPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE CLASS E. THE PERFORATIONS SHALL BE 1/2" X 4" SLOTS OR 1" DIAMETER HOLES.A BASE OF FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR #3 STONE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL.THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE TOP OF THE RISER. CREST ELEVATION (BASED ON WATERING ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.	<p>BEDDING DETAIL</p> <p>ANCHORING DETAIL</p>	<ol style="list-style-type: none">THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE SO AS TO MINIMIZE THE EMISSION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.THE CONTRACTOR MUST PROVIDE CLEAN WATER FREE FROM OIL, GREASE, AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:<ol style="list-style-type: none">APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR/PUMP WITH DISCHARGE PRESSURE GAUGE.ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER.DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 kPa). MINIMUM KEEP AREAS DAMP WITHOUT CREATING RUSSANCE CONDITIONS SUCH AS PONDING.FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:<ol style="list-style-type: none">APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE WETTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING RUSSANCE CONDITIONS SUCH AS PONDING.APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND THE SITE BOUNDARIES.	<p>STANDARD SYMBOLS</p>												
SILT FENCE	SILT FENCE DETAIL	SCS CONSTRUCTION SPECIFICATION	STABILIZED CONSTRUCTION ENTRANCE DETAIL	DETAIL 1 - EARTH DIKE												
<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none">FENCE POST SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POST SHALL BE 1 1/2" SQUARE (MINIMUM) OUT, OR 3 1/4" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POST WILL BE STANDARD 1" OR 1 1/2" SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:<table><tr><td>TENSILE STRENGTH</td><td>50 LBS/IN (MIN)</td><td>TEST: WEIGHT 509</td></tr><tr><td>TENSILE ELONGATION</td><td>20% MIN</td><td>TEST: WEIGHT 509</td></tr><tr><td>FLOW RATE</td><td>0.3 GAL/(FPM)(MIN)</td><td>TEST: WEIGHT 322</td></tr><tr><td>FILTERING EFFICIENCY</td><td>75% (MIN)</td><td>TEST: WEIGHT 322</td></tr></table>WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHES 50% OF THE FABRIC HEIGHT.	TENSILE STRENGTH	50 LBS/IN (MIN)	TEST: WEIGHT 509	TENSILE ELONGATION	20% MIN	TEST: WEIGHT 509	FLOW RATE	0.3 GAL/(FPM)(MIN)	TEST: WEIGHT 322	FILTERING EFFICIENCY	75% (MIN)	TEST: WEIGHT 322	<p>PERSPECTIVE VIEW</p> <p>CROSS SECTION</p>	<ol style="list-style-type: none">LENGTH - MIN. OF 50' RAMP X 30' RAMP FOR SINGLE RESIDENCE LOT.WIDTH - 10" MINIMUM SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE.STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 4" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PREVENTED FROM ENTERING THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTAIN BERM WITH 5:1 SLOPES AND MIN. OF 6" OF STONE OVER THE PIPE. PIPE MUST BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE SIDE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RAINFALL TO BE CONVEYED. A 6" MIN. WILL BE REQUIRED.MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH PREVENTS SEDIMENT FROM ENTERING THE ENTRANCE. WHEN THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY MATERIAL USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS-OF-WAY MUST BE REMOVED IMMEDIATELY.WARNING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO EXITING THE STABILIZED CONSTRUCTION ENTRANCE. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.	<p>CROSS SECTION</p> <p>PLAN VIEW</p>	<p>CROSS SECTION</p> <p>PLAN VIEW</p>
TENSILE STRENGTH	50 LBS/IN (MIN)	TEST: WEIGHT 509														
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FILTERING EFFICIENCY	75% (MIN)	TEST: WEIGHT 322														
CURB INLET PROTECTION	CURB INLET PROTECTION NOTES	DETAIL 23B - AT GRADE INLET PROTECTION	VEHICLE WASH DETAIL	BRICKBAT GROUND COVER												
<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none">ATTACH A CONTINUOUS PIECE OF WIRE MESH 30" MIN. WIDTH BY TIEING LENGTH PLUS 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THE 2"x4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBASE OR ALTERNATE WEIGHT.PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2"x4" WEIR.SECURELY NAIL THE 2"x4" WEIR TO A 6" LONG VERTICAL POST LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAX. 4" APART).PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MIN. 2" LONG) OF 2"x4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THE 2"x4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBASE OR ALTERNATE WEIGHT.THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MIN. 1" (0.31 m) BEYOND BOTH ENDS OF THE THROAT OPENING.FORM THE 1/2"x1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4"x1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.ASSUME THAT STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIRT TO DIRECT FLOW TO THE INLET.	<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none">ATTACH A CONTINUOUS PIECE OF WIRE MESH 30" MIN. WIDTH BY TIEING LENGTH PLUS 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THE 2"x4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBASE OR ALTERNATE WEIGHT.PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2"x4" WEIR.SECURELY NAIL THE 2"x4" WEIR TO A 6" LONG VERTICAL POST LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAX. 4" APART).PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MIN. 2" LONG) OF 2"x4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THE 2"x4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBASE OR ALTERNATE WEIGHT.THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MIN. 1" (0.31 m) BEYOND BOTH ENDS OF THE THROAT OPENING.FORM THE 1/2"x1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4"x1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.ASSUME THAT STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIRT TO DIRECT FLOW TO THE INLET.	<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none">LEFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS THEN SET GRATE BACK IN PLACE.PLACE 3/4" TO 1 1/2" STONE, 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION.	<p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none">LEFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS THEN SET GRATE BACK IN PLACE.PLACE 3/4" TO 1 1/2" STONE, 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION.	<p>STANDARDS AND SPECIFICATIONS</p> <p>DEFINITION: TEMPORARY GROUND COVER CONSISTING OF BROKEN BRICK (1/2" PIECE OR SMALLER) PLACED OVER DISTURBED EARTH.</p> <p>PURPOSE: PREVENTS PROVIDE A TEMPORARY GROUND COVER OVER EXISTING URBAN EARTH TO PREVENT THE TRANSPORTATION OF SEDIMENT FROM THE SITE.</p> <p>DESIGN CRITERIA: THE BROKEN BRICK SHALL BE PLACED TO A DEPTH OF 3 INCHES TO 4 INCHES COVERING THE DISTURBED EARTH ON THE SITE, THEN COMPACTED AND LEVELLED.</p>												



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STRUCTURAL CERTIFICATION:
Structural plans certified as provided in Section 106.1.4.1 of the D.C. Construction Codes.

REVISIONS

PROJECT No.	
DATE: December 4, 2016	
SCALE: AS SHOWN	

EROSION & SEDIMENT CONTROL

DDOE1

ELECTRICAL NOTES:

1. ALL EQUIPMENT SHALL BE INSTALLED ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS.
2. CIRCUIT NUMBER SHOWN ARE FOR IDENTIFICATION ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO BALANCE ALL PHASES IN THE PANELBOARD (BALANCE LOAD).
3. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL MOTORS AND OTHER EQUIPMENT BEFORE ROUGH–IN. COORDINATE WITH ARCH/MECH/PLUM DWGS.
4. WHERE WIRE SIZES ARE INDICATED ON THE PLANS FOR INDIVIDUAL CIRCUITS, THE INDICATED WIRE SIZE SHALL APPLY TO THE COMPLETE CIRCUIT UNLESS OTHERWISE NOTED.
5. NOT USED.
6. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF BUILDING EQUIPMENT BEFORE ROUGH–IN.
7. CONDUIT AND/OR CABLE RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITION WILL DETERMINE ACTUAL RUNS.
8. MODULAR METERING EQUIPMENT WHEN USED IN CONJUNCTION WITH STANDARD 10K CIRCUIT BREAKER IN BUILDING LOAD CENTERS, SHALL BE SERIES RATED FOR MINIMUM 22K RMS SYMMETRICAL AMPERES.
9. ALL JUNCTION BOXES SHALL BE OF CODE GAUGE AND OF THE SIZE, REQUIRED TO ACCOMMODATE CONSTRUCTION SHOWN.
10. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION BEFORE ROUGH–IN.
11. THE CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER THE EXACT LOCATION OF CONNECTION BOX TO MECHANICAL EQUIPMENT BEFORE ROUGH–IN. COORDINATE WITH ARCH/MECH/PLUM DWGS.
12. THE CONTRACTOR SHALL EXTEND WIRING FROM THE JUNCTION BOX, RECEPTACLE ETC., AND MAKE FINAL CONNECTION TO ALL BUILDING ELECTRICAL CONNECTION.
13. ALL WORKMANSHIP, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF CONSTRUCTION BY THE OWNER.
14. LOAD CENTER SHALL BE THE CIRCUIT BREAKER TYPE AS MANUFACTURED BY SQUARE D CO., CUTTLER HAMMER OR EQUAL.
15. THE CONTRACTOR SHALL VISIT EXISTING SITE AND DETERMINE WHICH MATERIAL EFFECT HIS BID.
16. THE CONTRACTOR SHALL RESTORE ALL SYSTEMS AND AREAS DISTURBED BY HIS WORK TO THE SATISFACTION OF THE OWNER AND DEVELOPER.
17. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND CERTIFICATIONS OF INSPECTIONS INCLUDING THE COST OF SAME IN HIS CONTRACT.
18. ALL NEW MATERIALS FURNISHED FOR THIS PROJECT SHALL BE LISTED BY THE UNDERWRITER’S LAVATORIES, INC.
19. ALL PHOTOCELLS SHALL BE WEATHERPROOFED, SURFACED MOUNTED WITH CORROSION PROOF PLATE AND SHALL BE MANUFACTURED BY TORK OR SIMILAR.
20. THE CONTRACTOR MUSH ASSURE EQUIPMENT GROUNDING SYSTEM CONTINUITY.

TYPICAL UNIT PANEL SCHEDULE 150A

AMP	SERIAL	ROOM	SERIAL	ROOM	AMP
20	1	KITCHEN	2	KITCHEN	20
20	3	GARBAGE DISP	4	GENERAL LIGHTS	20
20	5	WASHER/DRYER	6	OUTLET	20
20	7	BATHROOM	8	AC UNIT 1	40
30	9	WATER HEATER	10	BEDROOM OUTLET & LIGHTS	20
20	11	SPARE	12	SPARE	20

TYPICAL UNIT PANEL SCHEDULE 200A

AMP	SERIAL	ROOM	SERIAL	ROOM	AMP
20	1	KITCHEN	2	KITCHEN	20
20	3	GARBAGE DISP	4	KITCHEN	20
20	5	WASHER/DRYER	6	GENERAL LIGHTS	20
20	7	BATHROOM	8	GENERAL LIGHTS	20
20	9	BATHROOM	10	GENERAL LIGHTS	20
30	11	WATER HEATER	12	GENERAL LIGHTS	20
20	13	OUTLET	14	OUTLET	20
20	15	OUTLET	16	AC UNIT 1	40
20	17	SPARE	18	SPARE	20
20	19	SPARE	20	SPARE	20

- NOTES:
1. PLEASE REFER TO EXISTING PANEL SCHEDULE PRIOR TO MODIFICTION.
2. NEED TO COORDINATE W/MECH EQUIPMENT FOR HVAC SYSTEMS.

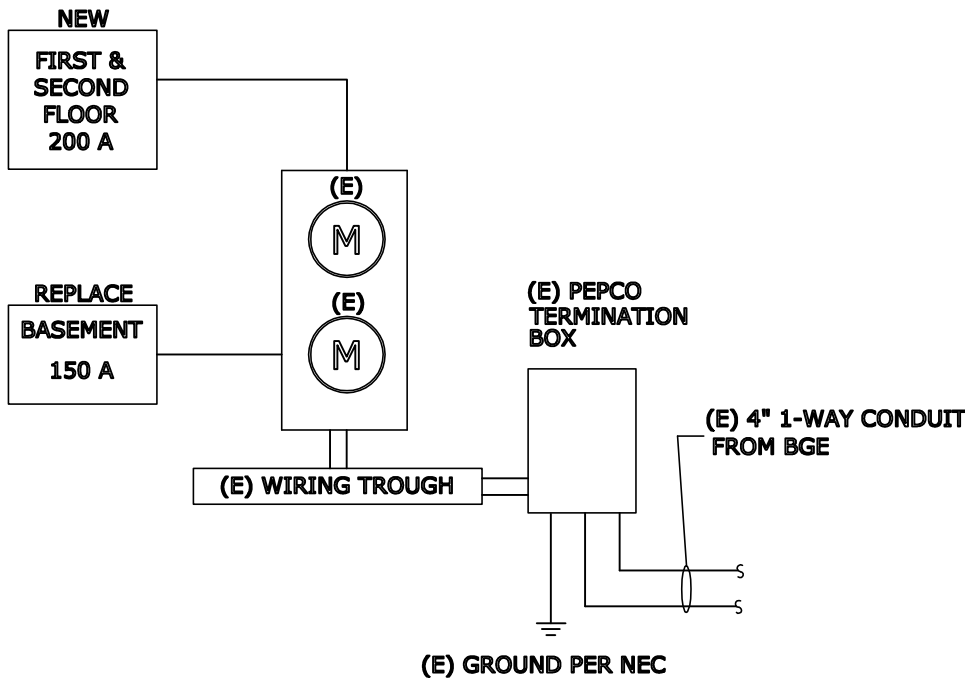
21. THERMOSTAT WIRING SHALL BE AS PER DIAGRAM BY UNIT MANUFACTURER, SEE MECHANICAL PLANS FOR EXACT LOCATION.
22. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND OTHER RULES AND REGULATIONS OF THE LOCAL ELECTRICAL AND BUILDING CODES.
23. ALL WIRING SHALL BE "BX" WITH COPPER GROUND.
24. OUTLETS MOUNTED ON COMMON WALL SHALL NOT BE MOUNTED BACK TO BACK. THEY SHALL BE STAGGERED TO PREVENT SOUND TRANSMISSION.
25. UNIT SHALL BE PREWIRED WITH A MINIMUM OF 2 PAIR OF 24 AWG TELEPHONE CABLES USING MODULAR JACKS, TERMINATING IN STANDARD NETWORK INTERFACE AS REQUIRED BY C & P TELEPHONE COMPANY.
26. THE CONTRACTOR SHALL COORDINATED DOOR ENTRY SYSTEM REQUIREMENTS WITH OWNER PRIOR TO ROUGH–IN AND PROVIDE ALL NECESSARY COMPONENTS TO ENSURE THAT A COMPLETED OPERATING SYSTEM IS PROVIDED.
27. BRANCH CIRCUIT CONNECTIONS SHALL BE MINIMUM NO. 12 AWG. HOMERUNS SHALL BE NO. 10 AWG = TW INSULATION +/- LARGER = FEEDERS = THWN INSULATION.
28. AFCI FOR ALL 15 AND 20 AMP BRANCH CIRCUITS PROVIDING POWER TO OUTLETS IN RESIDENTIAL FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS OR AREAS.

ELECTRICAL SYMBOLS

Φ	DUPLEX OUTLET 18" A.F.F.	\textcircled{R}	HIGH–EFFICIENCY FLUORESCENT LIGHT RECESSED LIGHT
$\Phi 42$	DUPLEX OUTLET 42" A.F.F.	$\text{H}\text{---}\text{O}$	HIGH–EFFICIENCY FLUORESCENT LIGHT WALL MOUNTED
Φ	DUPLEX OUTLET 18" A.F.F. HALF SWITCHED	\textcircled{T}	THERMOSTAT
$\Phi 220$	220 VOLT DUPLEX OUTLET	\bullet GD	GARBAGE DISPOSAL
ΦWP	WATERPROOF RECEPTACLE	$\textcircled{\text{SD}}$	SMOKE DETECTOR
ΦGFI	GROUND FAULT INTERRUPTER	EP	ELECTRIC PANEL
$\Phi 42 \text{GFI}$	GROUND FAULT INTERRUPTER 42" A.F.F.	EM	ELECTRIC METER
\$	WALL SWITCH	---	UNDER CABINET LIGHT
\$3	3–WAY WALL SWITCH	$\text{---}\text{O}\text{---}$	LIGHT FIXTURE CEILING MOUNTED
\bullet	EXHAUST FAN	P	LIGHT FIXTURE PAENDANT LIGHT
$\textcircled{\text{CD}}$	CARBON MONOXIDE DETECTOR	X	CEILING FAN PREWIRE

Normal Residential usage

3/0 Gauge	200 Amps Service entrance
1/0 Gauge	150 Amps Service entrance and feeder wire
3 Gauge	100 Amps Service entrance and feeder wire
6 Gauge	55 Amps Feeder and large appliance wire
8 Gauge	40 Amps Feeder and large appliance wire
10 Gauge	30 Amps Dryers, appliances, and air conditioning
12 Gauge	20 Amps Appliance, laundry and bathroom circuits
14 Gauge	15 Amps General lighting and receptacle circuits



- THE NATIONAL ELECTRICAL CODE SPECIFIES THAT THE PROPER METHOD OF GROUNDING THE ELECTRICAL SERVICE OF A BUILDING OR STRUCTURE SHALL BE IN ACCORDANCE WITH SECTION 250-24(A). SECTION 250-24(A) DIRECTS THAT ALTERNATING CURRENT SYSTEMS WHICH ARE REQUIRED TO BE GROUNDED BY SECTION 250-20(B), HAVE A GROUNDING ELECTRODE CONDUCTOR BONDED FROM THE SERVICE GROUNDED (NEUTRAL) CONDUCTOR TO AN ACCEPTABLE GROUNDING ELECTRODE AS LISTED BELOW:
1. METAL WATER PIPE IN CONTACT WITH THE EARTH FOR 10 FEET OR MORE. INTERIOR METAL WATER PIPE BEYOND 5 FEET FROM THE WATER ENTRANCE SHALL NOT BE USED AS A PART OF THE GROUNDING ELECTRODE SYSTEM OR AS A CONDUCTOR TO INTERCONNECT THOSE ELECTRODES.
2. BARE #4 CONDUCTOR AT LEAST 20 FEET IN LENGTH AND NEAR THE BOTTOM OF THE CONCRETE FOUNDATION (WITHIN 2 INCHES), OR ½-INCH REINFORCING STEEL OR RODS AT LEAST 20 FEET IN LENGTH (ONE CONTINUOUS LENGTH OR SPLICED TOGETHER)
3. BARE #2 CONDUCTOR ENCIRCLING BUILDING AT LEAST 2½ FEET IN THE GROUND (SPLICED TOGETHER AT EACH END).

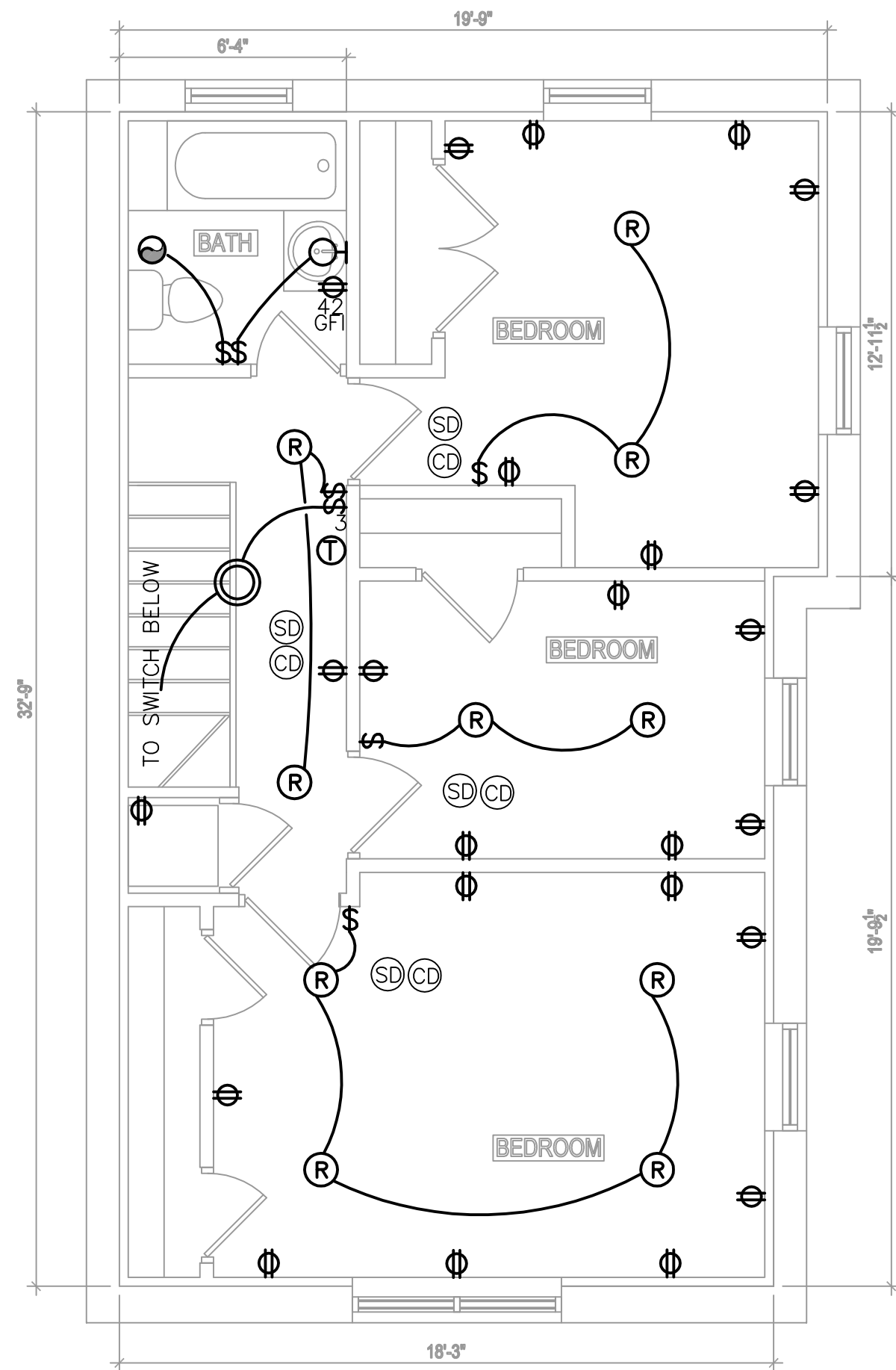
TYPICAL POWER RISER DIAGRAM
(ONLY REPLACE PANELS)

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WASHINGTON DC

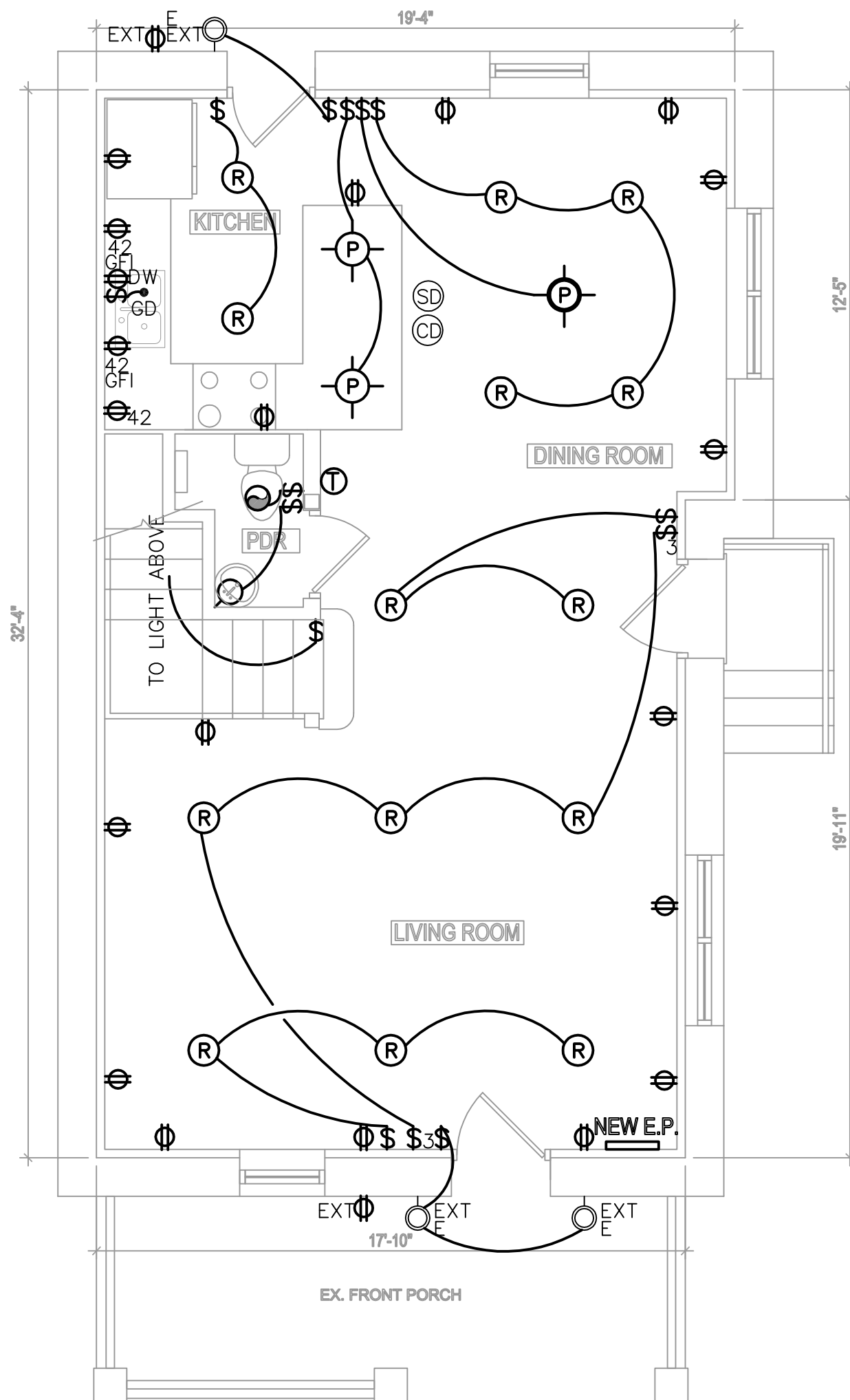
REVISIONS
PROJECT No.
DATE
SCALE: AS SHOWN
ELEC FLOOR
PLANS

E002

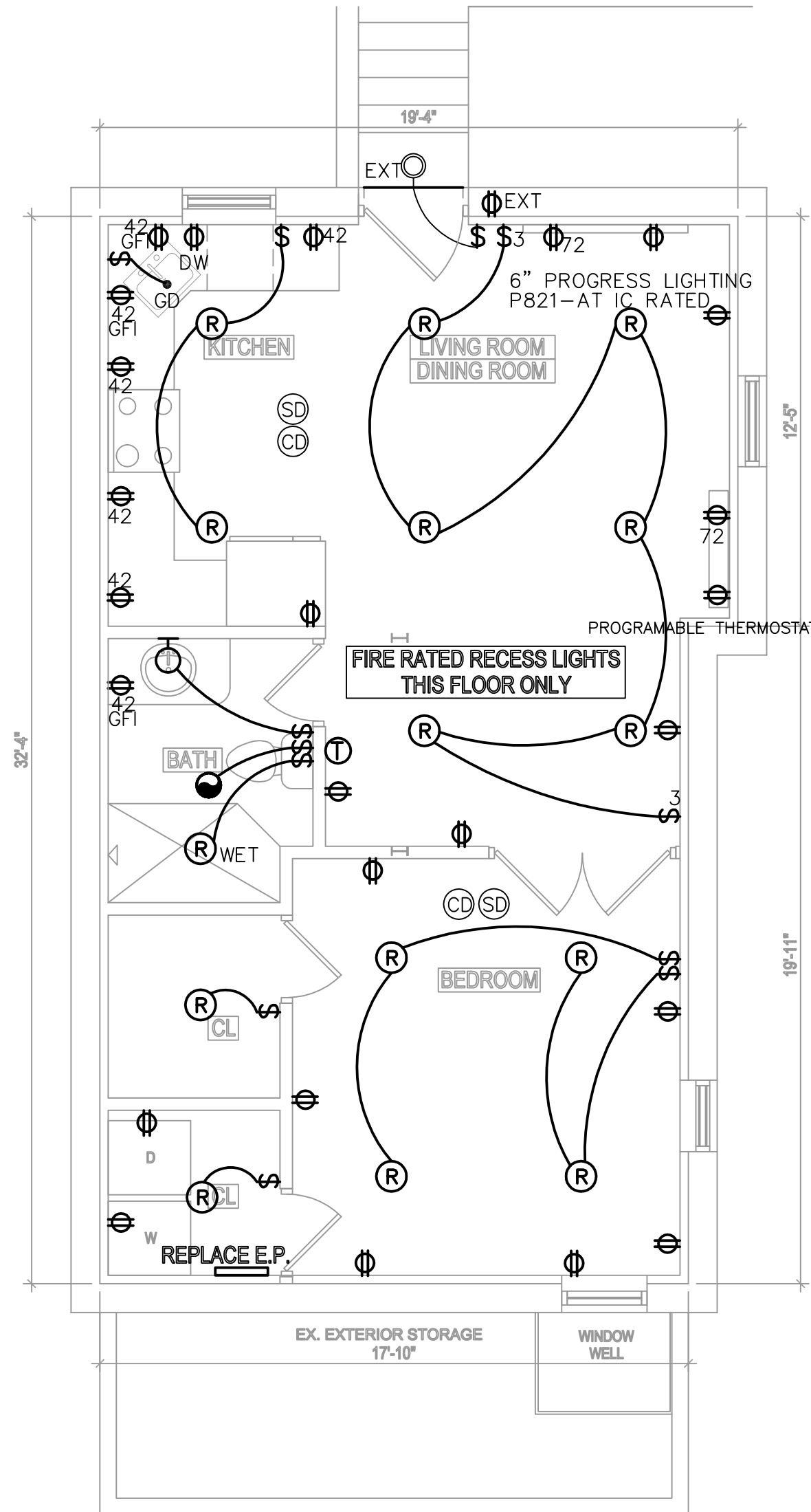
AFCI FOR ALL 15 AND 20 AMP BRANCH
CIRCUITS PROVIDING POWER TO OUTLETS IN
RESIDENTIAL FAMILY ROOMS, DINING ROOMS,
LIVING ROOMS, PARLORS, LIBRARIES, DENS,
BEDROOMS, SUNROOMS, RECREATION ROOMS,
CLOSETS, HALLWAYS, AND SIMILAR ROOMS OR
AREAS.



3 ELEC 2ND FL PLAN
SCALE: 1/4"=1'-0"



2 ELEC 1ST FL PLAN
SCALE: 1/4"=1'-0"



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

MECHANICAL SPECIFICATIONS

GENERAL

1. ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE CODES, RULES AND REGULATIONS.
2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
3. MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
4. ALL MATERIAL AND EQUIPMENT INDICATED ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR NEW AND THE BEST PRODUCTS OF REPUTABLE MANUFACTURERS AND SHALL BE IN NEW CONDITION AT ACCEPTANCE OF WORK.
5. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, LABOR AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. CONTRACTOR SHALL PAY FOR ANY REPAIRS OR REPLACEMENTS CAUSED BY DEFECTIVE WORKMANSHIP OR FAULTY MATERIALS AS CONSTRUED HEREIN WITHIN THE PERIOD COVERED BY THE GUARANTEE.
6. CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION TO DETERMINE FULLY THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION.
7. CONTRACTOR SHALL VERIFY SITE EFORE PURCHASING NEW MATERIALS AND EQUIPMENT OR FABRICATING NEW DUCTWORK.
8. LOCATION OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY THE DRAWINGS. DETERMINE EXACT LOCATIONS ON THE JOB SITE, SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.
9. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPES, DUCTS, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT BEFORE PROCEEDING. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.
10. INSTALL EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
11. INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER, USING ONLY WORKMEN THOROUGHLY QUALIFIED IN THE TRADE OF DUTIES THEY ARE TO PERFORM. ROUGH WORK WILL BE REJECTED.
12. CUTTING AND PATCHING SHALL BE DONE BY THE APPROPRIATE TRADE UNLESS OTHERWISE REQUIRED BY TRADE CUSTOM OR SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. CONTRACTOR SHALL FURNISH SKETCHES SHOWING THE LOCATIONS AND SIZES OF ALL OPENINGS, CHASES, ETC. REQUIRED. CONTRACTOR IS LIABLE FOR CUTTING OR PATCHING MADE NECESSARY BY HIS FAILURE TO MAKE PROPER ARRANGEMENTS IN THIS RESPECT.
13. DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT[ENGINEER AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER AS DIRECTED BY HER OR HIM.
14. MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATIONS OF DUCTWORK, CONTRACTOR SHALL CLEAN ENTIRE SYSTEM OF RUBBISH, PLASTER, DIRT AND AY OTHER DEBRIS.
15. TEST ALL SYSTEMS. SYSTEMS SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO ENGINEER.
16. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. CONTRACTOR ORIGINATED MODIFICATIONS TO THE MECHANICAL EQUIPMENT ELECTRICAL INSTALLATION, DUE TO DEVIATIONS FROM THE MECHANICAL EQUIPMENTS "BASIS OF DESIGN" OR "PROTOTYPE" ELECTRICAL DATA, SHALL BE AT A COST TO THE MECHANICAL CONTRACTOR.

MECHANICAL ABBREVIATIONS

ABV	ABOVE	FT	FEET
AC	AIR CONDITIONER	GD	GRAVITY DAMPER
AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
AHU	AIR HANDLING UNIT	H	HUMIDIFIER
APD	AIR PRESSURE DROP	HP	HORSEPOWER
ARCH	ARCHITECTURAL	IN	INCHES
BJ	BETWEEN JOISTS	KW	KILOWATTS
BTUH	BRITISH THERMAL UNITS PER HOUR	LAT	LEAVING AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	LF	LINEAR FEET
CLG	CEILING	MCA	MINIMUM CIRCUIT AMPS
CONC	CONCRETE	MBH	THOUSAND BTU PER HOUR
COND	CONDENSATE	OB	OPPOSED BLADE DAMPER
CONT	CONTINUATION	PH	PHASE
CP	CONDENSATE PUMP	RA	RETURN AIR
CU	CONDENSING UNIT	RBWJ	RUN BETWEEN JOISTS
DB	DRY BULB	RLA	RATED LOAD AMPS
DIA	DIAMETER	SA	SUPPLY AIR
DN	DOWN	SF	SUPPLY FAN
DWG	DRAWING	SL	SOUND LINING
EA	EACH	SP	STATIC PRESSURE
EAT	ENTERING AIR TEMPERATURE	SQ	SQUARE
EF	EXHAUST FAN	TYP	TYPICAL
ESP	EXTERNAL STATIC PRESSURE	V	VOLTS
EXH	EXHAUST	VTR	VENT THRU ROOF
F	DEGREES FAHRENHEIT	W/	WITH
FL	FLOOR	WB	WET BULB
FLA	FULL LOAD AMPS	WG	WATER GAUGE
FPM	FEET PER MINUTE	FSR	FLOOR SUPPLY REGESTER
FR	FLOOR REGISTER	CSR	CEILING SUPPLY
		WG	WALL

PIPING

1. CONDENSATE PIPING: TYPE "M" COPPER TUBING WITH SWEAT TYPE FITTINGS. SLOPE ALL CONDENSATE PIPING TOWARDS DRAINS AT 1/8 PER FOOT.

VIBRATION ISOLATORS

1. PROVIDE DOUBLE DEFLECTION NEOPRENE ISOLATION HANGERS FOR SUSPENDED FANS AND EQUIPMENT LESS THAN 100 LBS.
2. QUANTITY AND LOCATION OF ISOLATORS SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. AFTER INSTALLATION AND START-UP, CONTRACTOR SHALL THOROUGHLY CHECK EACH ITEM OF EQUIPMENT FOR VIBRATION TRANSMISSION TO THE STRUCTURE OR EXCESSIVE NOISE, AND IF EITHER OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE FAULTY SITUATION IMMEDIATELY.

INSULATION

1. ALL DUCT AND PIPE INSULATION AND COVERINGS SHALL HAVE A FIRE AND SMOKE HAZARD RATING AS TESTED UNDER PROCEDURE ASTM-E-84, NFPA 255 AND UL 723 NOT EXCEEDING A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50. PIPING CARRYING FLUIDS >105 DEGREE OR FLUIDS < 55 DEGREE SHALL BE INSULATED TO R3 OR ABOVE.
2. AIR CONDITIONING DUCTS: INSULATE ALL NEW SUPPLY AIR & RETURN AIR AND DUCTS WITH A 1-1/2" THICK, 3 / 4 LB. DENSITY FIBERGLASS, FLEXIBLE BLANKET INSULATION AND EXESTING UNINSULATED, FACED WITH A FIRE RESISTIVE VAPOR BARRIER JACKET WITH A 2" TAB ON ONE EDGE. INSULATION SHALL BE WRAPPED ON I ON DUCTS WITH FACING OVERLAPPING ALL JOINTS AT LEAST 2" AND HELD IN PLACE WITH 1/2"OUTWARD CLINCHING STAPLES ON 4" CENTERS. STAPLES AND SEAMS ARE TO BE SEALED WITH A BRUSH COAT OF VAPOR BARRIER MASTIC.
3. REFRIGERANT SUCTION, CONDENSATE DRAIN PIPING: INSULATE WITH 1/2" THICK ARMAFLEX FIRE RATED INSULATION OR APPROVED ON EQUAL, WITH ALL JOINTS SEALED WITH ARMAFLEX ADHESIVE #520. WHERE POSSIBLE, INSULATION SHALL BE SLIPPED OVER THE TUBING AS FULL CYLINDER. INSULATION OF PIPING SHALL BE VAPOR TIGHT AND CONTINUOUS THROUGH HANGERS, WALLS, ETC. PROVIDE GALVANIZED SHEET METAL SADDLES AT HANGERS.
4. REFRIGERANT LIQUID , HOT GAS PIPING AND CONDENSATE DRAIN WITHIN THE BUILDING: INSULATE WITH 1/2" THICK ARMAFLEX FIRE RATED INSULATION OR APPROVED EQUAL.

DUCTWORK

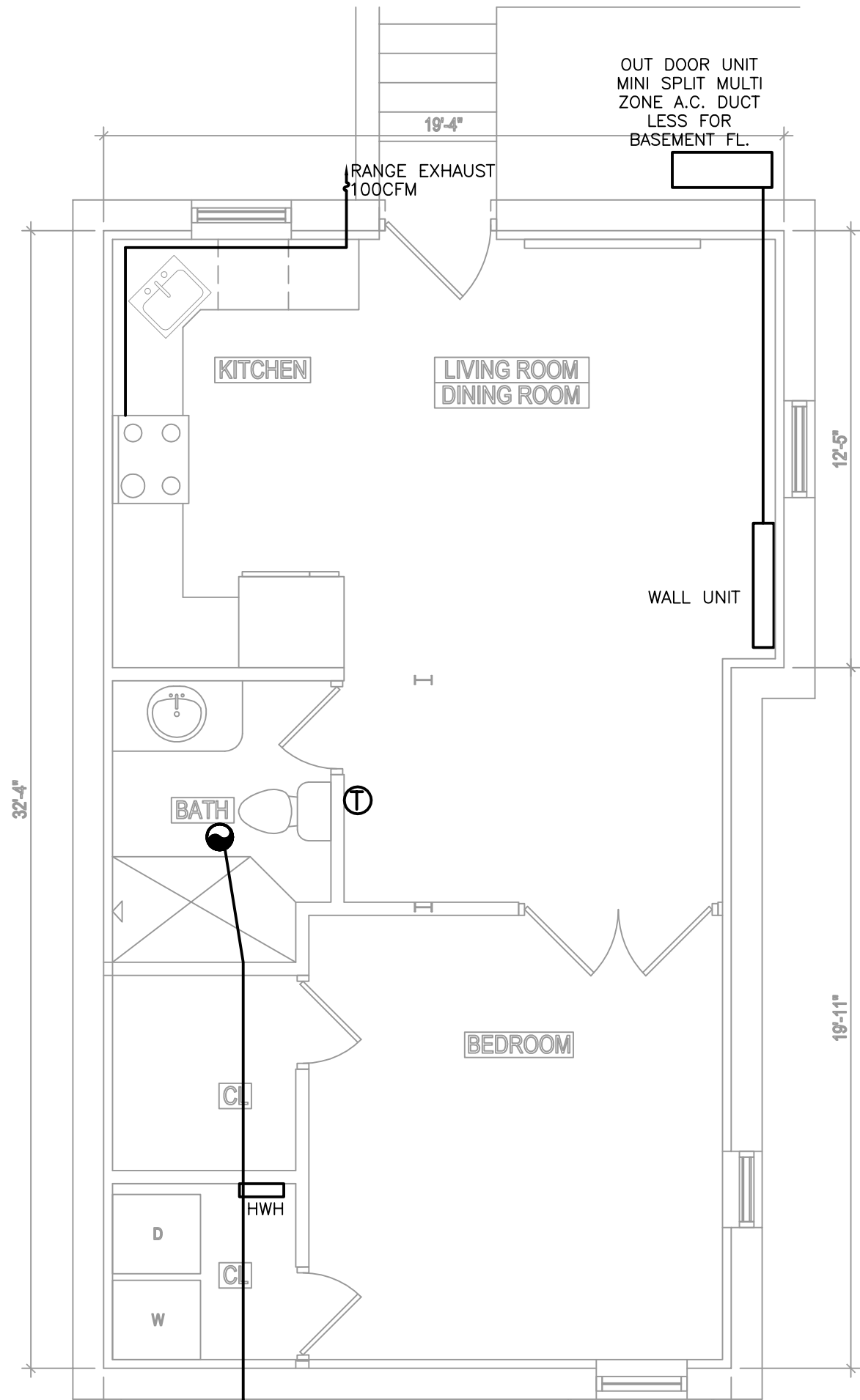
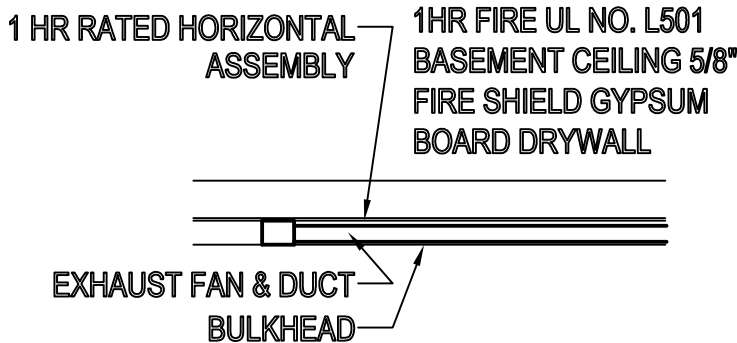
1. GENERAL: CONSTRUCT ALL DUCTWORK AND ACCESSORIES IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS FOR 2" PRESSURE CLASS AND SEAL CLASS B.
2. METAL DUCTWORK: FABRICATE ALL DUCTWORK, HOUSING, DAMPERS, AND ALL OTHER DUCT RELATED ACCESSORIES FROM GALVANIZED STEEL SHEETS UNLESS OTHERWISE NOTED.
3. INSTALL ALL DUCTWORK BELOW CEILING AND HOLD TIGHT TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE INDICATED.
4. CHANGES TO DUCT DUE TO FIELD CONDITIONS SHALL BE MADE ONLY IF THE DUCT SIZE FREE AREA IS MAINTAINED AND SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
5. FLEXIBLE CONNECTORS: PROVIDE FLEXIBLE CONNECTORS AT THE INLET AND OUTLET CONNECTION FOR EACH FAN AND AIR HANDLING UNIT. EACH FLEXIBLE CONNECTOR SHALL ALLOW 1" OF FREE MOVEMENT AND SHALL BE COMPLETELY AIR TIGHT. PROVIDE NEOPRENE COATED GLASS FABRIC MATERIAL, MINIMUM 30 OZ. PER SQUARE YARD. CONTRACTOR SHALL BRACE DUCTWORK (AS REQUIRED) AT ALL FLEXIBLE CONNECTORS TO ENSURE THAT DUCTWORK IS KEPT IN ALIGNMENT.
6. LEAKAGE
 - A. ALL DUCT JOINTS SHALL BE SEALED WITH HARDCAST 601.
 - B. LEAKAGE TESTING FOR ALL DUCTWORK SHALL BE BY PHYSICAL SENSATION AND SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
 - C. PERFORM ALL TESTING AFTER THE SEALS HAVE CURED COMPLETELY AND BEFORE COVERING WITH INSULATION OR CONCEALING IN MASONRY.

MECHANICAL SYMBOLS

⊠	SUPPLY AIR DEVICE	⊕	THERMOSTAT
⊞	RETURN AIR DEVICE	∅	ROUND
⊞	FLEXIBLE CONNECTION	(E)	EXISTING
⊞	ELBOW WITH TURNING VANES		
→	FLOW OF AIR		

NOTES:

1. THE ANNULAR SPACE AT DUCT WHEN THEY PENETRATING A NON-FIRE-RESISTANCE RATED HORIZONTAL ASSEMBLY OR A SMOKE BARRIER SHALL BE FILLED TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION WITH A FILL, VOID OR CAVITY MATERIAL THAT IS TESTED AND CLASSIFIED FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.
2. FIRE DAMPER SHALL BE USED IF DUCT PENETRATING A FIRE-RESISTANCE-RATED HORIZONTAL ASSEMBLY OR SMOKE BARRIERS.

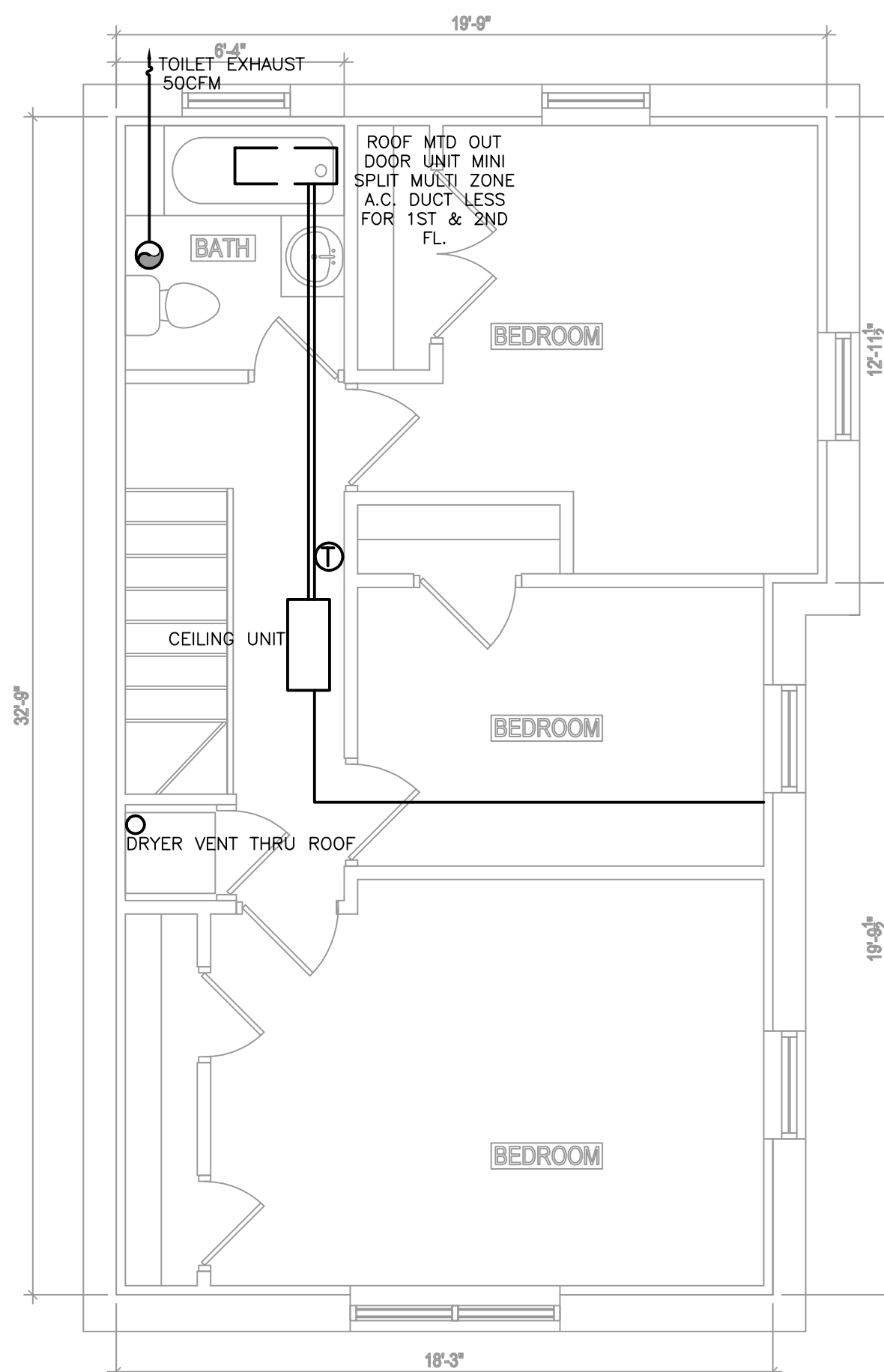


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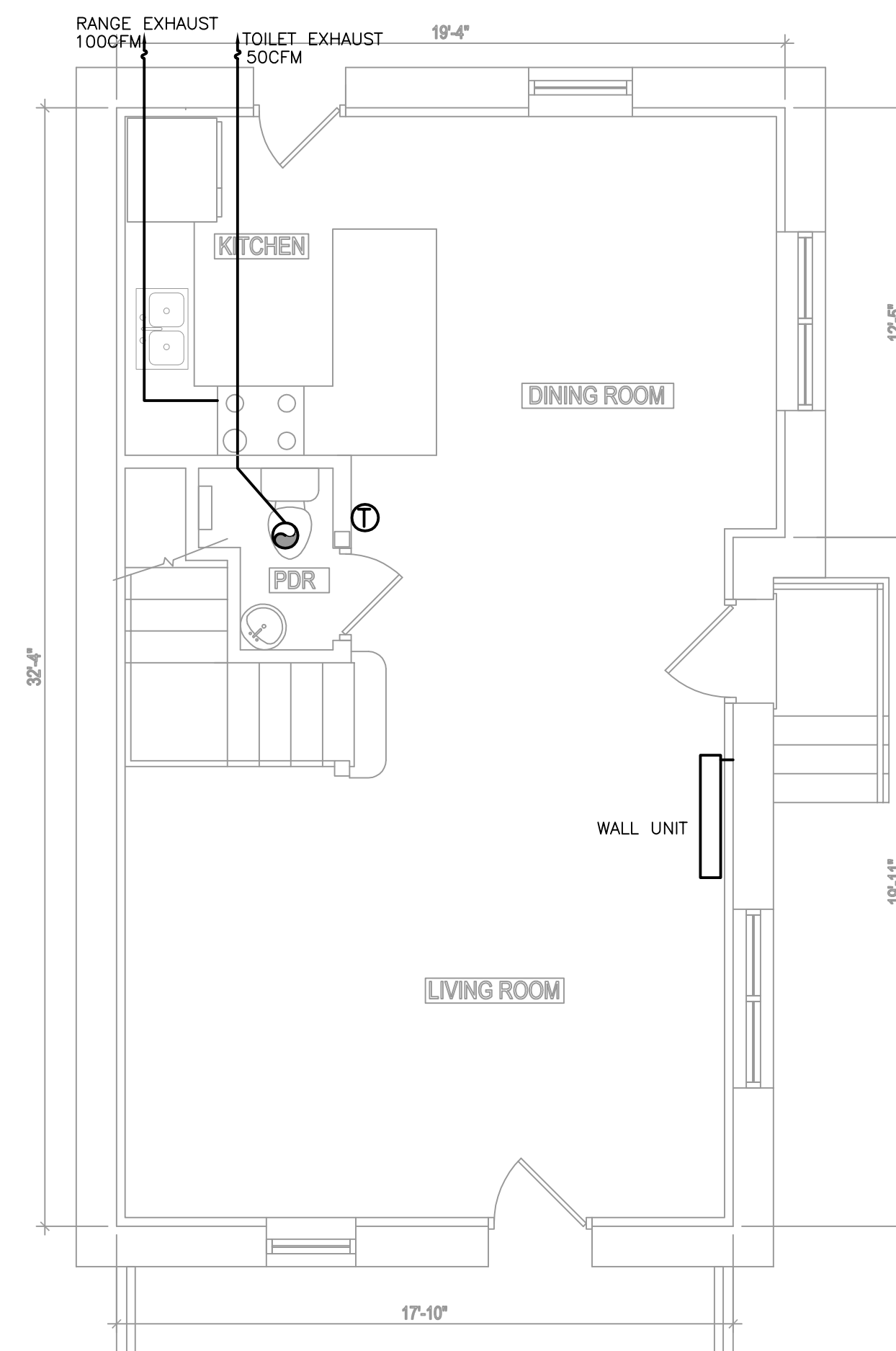
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**MECH FLOOR
PLANS**

M002




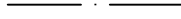








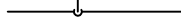


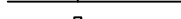





2	MECH 2ND FL PLAN SCALE: 1/4" = 1'-0"
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1	MECH 1ST FL PLAN SCALE: 1/4" = 1'-0"
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SYMBOLS AND ABBREVIATION

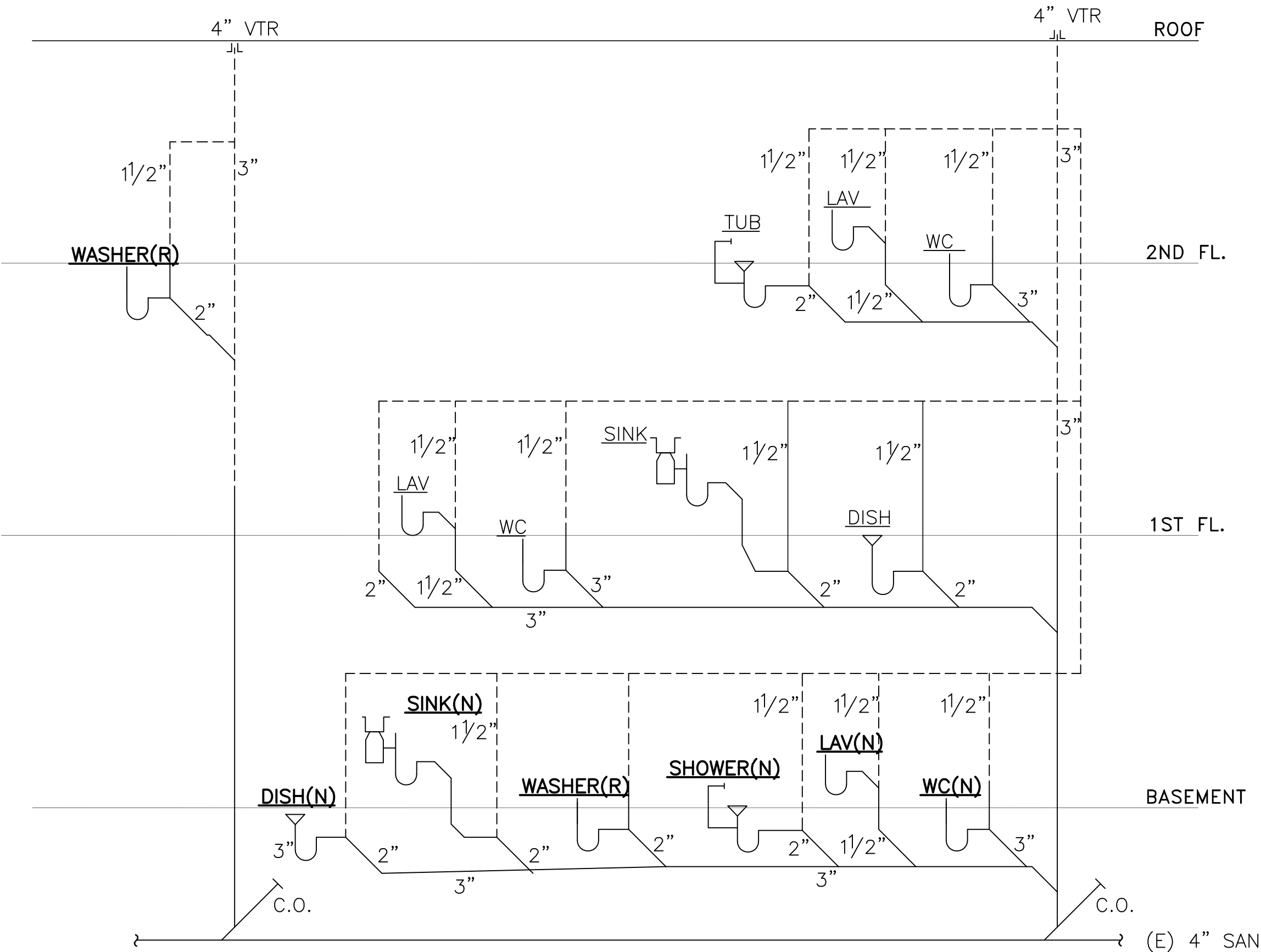
	SAN	SANITARY OR WASTE PIPE	A.F.F	ABOVE FINISH FLOOR
	V	VENT	VTR	VENT THRU ROOF
	CW	COLD WATER	FLR	FLOOR
	HW	HOT WATER	CLG	CEILING
	HWR	HOT WATER RETURN	AP	ACCESS PANEL
		RISER DOWN	DN	DOWN
		RISER UP(ELBOW)	DWG	DRAWING
		UNION	FFE	FINISH FLOOR ELEVATION
		RISER OR DROP	SFU	SANITARY FIXTURE UNIT
		BRANCH-TOP CONNECTION	PRV	PRESSURE RELIEF VALVE
		BRANCH-BOTTOM CONNECTION	DISP	SANITARY FIXTURE UNIT
	SA	SHOCK ABSORBER	PRV	PRESSURE RELIEF VALVE
	VB	VACUUM BREAKER	E	EXISTING
		BALL VALVE	N	NEW
		GATE VALVE	SP	SUMP PUMP
		CHECK VALVE	R	RELOCATED
	HB/WH	HOSE BIBB/WALL HYDRANT		
	CO	CLEANOUT		
		POINT OF CONNECTION BETWEEN EXISTING AND NEW WORK.		

PLUMBING GENERAL NOTES

1. ALL WATER PIPING SHOWN ARE BELOW FLOOR, UNLESS OTHERWISE NOTED.
2. ALL SANITARY AND STORM PIPING 4" AND LARGER BE SLOPED AT 1/8" PER FOOT. AND 3" SMALLER SHALL BE 1/4" PER FOOT.
3. ALL VENT PIPING SHALL BE PITCHED FOR DRAINAGE.
4. ALL EQUIPMENT PHYSICAL DIMENSIONS SHOWN ON PLUMBING DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL EQUIPMENT DIMENSIONS IN ACCORDANCE WITH MANUFACTURE'S SHOP DRAWINGS AND COORDINATION WITH OTHER TRADES.
5. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF PLUMBING WORK.
6. THE CONTRACTOR SHALL PROVIDE AND COORDINATE ALL PLUMBING CONNECTIONS BETWEEN DEVICES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
7. ALL PIPING SHALL BE SUPPORTED IN SUCH MANNER AS ELIMINATE SWAY AND VIBRATION
8. CONTRACTOR SHALL COORDINATE SANITARY AND STORM DRAIN LOCATIONS ON THE PLUMBING DRAWINGS WITH CIVIL DRAWINGS.
9. CONTRACTOR SHALL COORDINATE ROOF AND OTHER DRAIN LOCATIONS ON THE ARCH. DRAWINGS WITH CIVIL DRAWINGS.
10. THE CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE EXACT LOCATION. AND PIPE SIZES OF EXISTING SANITARY WASTE COLD WATER AND HOT WATER PIPING.

PLUMBING FIXTURE CONNECTION SCHEDULEE

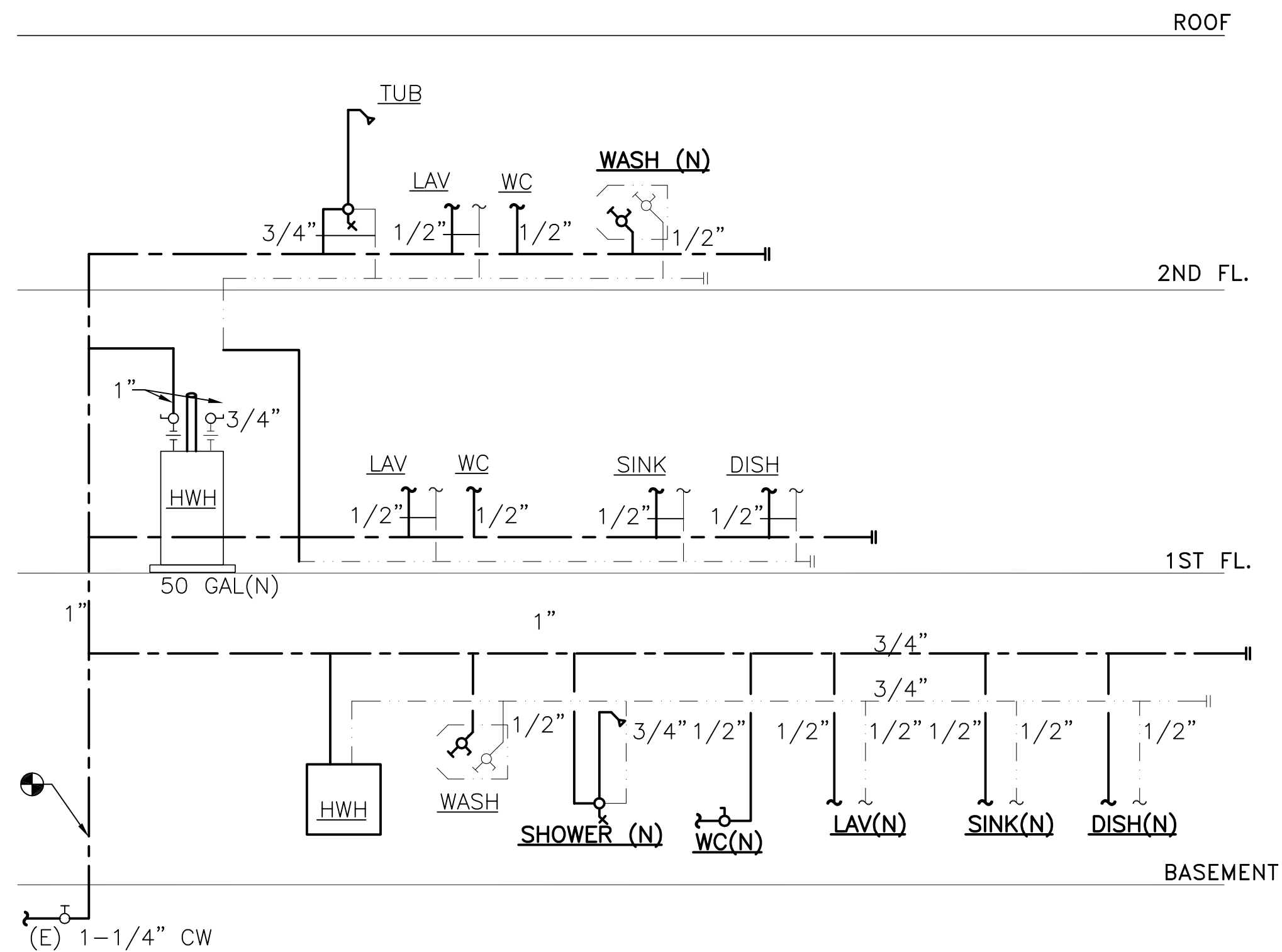
ITEM	DESCRIPTION	WASTE	VENT	WATER		REMARKS
				CW	HW	
P1	LAVATORY (N)	1 1/2"	1 1/2"	1/2"	1/2"	
P2	WATER CLOSET (N)	3"	2"	1/2"	---	
P3	SHOWER (N)	2"	1 1/2"	3/4"	3/4"	MIXING VALVE W/ SHOWER HEAD
P4	WASHER BOX (R)	2"	1 1/2"	1/2"	1/2"	HOSE AND VALVE
P5	KITCHEN SINK (N)	1 1/2"	1 1/2"	1/2"	1/2"	
P6	DISH WASHER (N)	2"	1 1/2"	1/2"	1/2"	WASTE SPILL INTO WASHER BOX
P7	KITCHEN SINK	1 1/2"	1 1/2"	1/2"	1/2"	
P8	DISH WASHER	2"	1 1/2"	1/2"	1/2"	
P9	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
P10	WATER CLOSET	3"	2"	1/2"	---	
P11	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
P12	WATER CLOSET	3"	2"	1/2"	---	
P13	BATH TUB	2"	1 1/2"	3/4"	3/4"	



SANITARY RISER DIAGRAM

NOT TO SCALE

PRIVATE RESIDENCE
5058 CENTRAL AVE SE
WASHINGTON DC



DOMESTIC WATER PIPING DIAGRAM
NOT TO SCALE

REVISIONS

PROJECT No.

DATE

SCALE: AS SHOWN

PLUMBING
DIAGRAM

P002

