1. INTERIOR BATHROOM DUCTS SHALL BE MINIMUM 24 GAUGE GALVANIZED METAL.
2. INTERIOR BATHROOM & KITCHEN DUCTS SHALL BE FITTED WITH BSA APPROVED
   EXHAUST FANS. SUCH FANS SHALL BE CAPABLE OF EXHAUSTING A MINIMUM OF
   CFM FOR KITCHEN, 4 CHANGES PER HOUR.
3. ALL PROPOSED WORK TO COMPLY WITH APPLICABLE REQUIREMENT FOR
   MECHANICAL ENG. DRAWINGS AND CONSTRUCTION DOCUMENTS. BUDGET
   PRICE TO INCLUDE ALL MACHINES AND ACC FANS. SPECIFICATIONS TO
   INCLUDE ALL MEDICALLY RELATED BUILDING CODES THAT APPLY.
4. CONSTRUCTION (NO.1) FW 1400 AND STANDARD (NO. 7) FW 1100 AS NOTED.
   SHELL WALL PARTITIONS TO HAVE 4" BRICK BETWEEN. HAVING A MINIMUM
   BEARING CAPACITY OF TWO TON PER SQUARE FOOT. CONCRETE WALLS
   SHALL NOT EXCEED 20. PLAIN CONCRETE WALLS SHALL BE FIRE PROOFED
   WITH BAG AND IT SHALL CONTAIN ENTRAINED AIR. SEC. 501(c) - ACI 318-71.
5. COMPRESSIVE STRENGTH OF CONCRETE IS TO BE 2000 PSI AT 28 DAYS.
6. CONCRETE IS TO BE PROVIDED ON THE BASIS OF A PREQUALIFIED OR
   PREMIXED CONCRETE THE CONTRACTOR'S WON'T BE ACCEPTED.
7. SHEAR IN FOOTING NOT TO EXCEED 70% OF 2 F'C WHICHEVER IS LOWER AS
   PER RULES PROMULGATED BY THE COMMISSIONER 27-9812(a)
8. CONCRETE POURED AGAINST EARTH. THE PLACED CONCRETE IS TO REACH
   SHEAR STRENGTH UNLESS PROPER BRACING IS INSTALLED IN A MANNER APPROVED BY
   THE BUILDING OFFICIAL. L.W. DENOTES LONG WAY
   T & B DENOTES TOP AND BOTTOM
   C. EXHAUST FANS, SUCH AS GENERAL OR TOILET (OPERATING
   REQUIRED TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
   A. CLEAR FLOOR SPACE OF A MINIMUM OF 30 INCHES BY 48 INCHES IS
   REQUIRED. EACH WORKER TO HAVE AT LEAST 30 INCHES OF CLEAR SPACE
   ABOVE AND AROUND THEM.
   B. ACCESSIBLE ROUTES TO BE PROVIDED BETWEEN FACILITIES ON THE ENTRANCE LEVEL,
   WITH CLEARances AROUND THE UNIT AND ENTRANCE TO THE FACILITIES
   REQUIRED TO BE PROVIDED. DOORS TO MEET CLEARANCE REQUIREMENTS FOR HANDBASED
   ON HANDBASESTANDARD. WHEELCHAIR ACCESSIBILITY TO BE PROVIDED.
   C. EXHAUST FANS, SUCH AS GENERAL OR TOILET (OPERATING
   REQUIREMENTS FOR NON-FIREPROOF CONCRETE (A) NO BEARERS OR
   QUALITY CONTROL OF THE FEET TO BE ADHERES TO THE CODE.
   B. ALL REINFORCED CONCRETE WALLS TO HAVE REAL TIME TEMPERATURE MONITORING
   FOR FREEZING CONCRETE. THE FITTED BAG IS TO BE USED IN ONE-
   TIME QUANTITIES.
   ALL PLANS SHOWN TO BE USED FOR ONE-
   TIME QUANTITIES.
   A. ALL PLANS SHOWN TO BE USED FOR ONE-
   TIME QUANTITIES.
   B. ALL PLANS SHOWN TO BE USED FOR ONE-
   TIME QUANTITIES.
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   Y. ALL PLANS SHOWN TO BE USED FOR ONE-
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   AY. ALL PLANS SHOWN TO BE USED FOR ONE-
   TIME QUANTITIES.
TABLE 4. PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE - RESIDENTIAL BUILDINGS (REVISED 03/02/21)

<table>
<thead>
<tr>
<th>Inspection Test</th>
<th>Inspector</th>
<th>Inspector's Signature</th>
<th>Signature of Building Owner</th>
<th>Date of Inspection</th>
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<tr>
<td>I-1</td>
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</table>

**ECC CHAPTER 1: COMPLIANCE WITH HIGH-EFFICIENCY REQUIREMENTS**
- **I-1** Protection of Insulation and Equipment: Protection of exposed foundation insulation shall be demonstrated to comply with the U-factors identified in the construction documents. Protection of exposed foundation insulation shall be demonstrated to comply with the U-factors identified in the construction documents.
- **I-2** Protection of Exposed Foundation Insulation: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-3** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-4** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-5** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.

**ECC CHAPTER 2: CONSTRUCTION DOCUMENTS**
- **I-6** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-7** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-8** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.

**ECC CHAPTER 3: CONSTRUCTION**
- **I-9** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-10** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-11** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.

**ECC CHAPTER 4: MECHANICAL SYSTEMS**
- **I-12** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-13** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-14** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.

**ECC CHAPTER 5: HUMIDITY AND TEMPERATURE**
- **I-15** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-16** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-17** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.

**ECC CHAPTER 6: ELECTRICAL**
- **I-18** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-19** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-20** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.

**ECC CHAPTER 7: WATER SYSTEMS**
- **I-21** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-22** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-23** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.

**ECC CHAPTER 8: PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE - RESIDENTIAL BUILDINGS (REVISED 03/02/21)**
- **I-24** Insulation and Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-25** Building Envelope: Insulation shall be visually inspected for location, completeness and accuracy.
- **I-26** Equipment: Insulation shall be visually inspected for location, completeness and accuracy.
TYPICAL MOMENT COLUMN DETAIL

SCALE: N.T.S.

NEW TWO FAMILY HOUSE

ADDRESS: 35-01 149 ST, QUEENS, NY 11354

EXCAVATION NOTES:

1. PRIOR TO FULL EXCAVATION AND FOUNDATION WORK, OR CONSTRUCTION WORK OF ANY KIND, CONTRACTOR SHALL PROTECT ADJOINING PROPERTY, INCLUDING ANY CONSTRUCTION TO BE PERFORMED BY CONTRACTOR'S EMPLOYEES OR SUBCONTRACTORS, FROM DAMAGE CAUSED BY THE EXCAVATION WORK.

2. TO PREVENT EXCESSIVE SHEAR CUTTING, CERTAIN DEPTH OF TOP SOIL MAY BE REMOVED AND TRANSPORT TO A TEMPORARY SAFE AREA, A 45 DEGREE SLOPE RATIO SHALL BE MAINTAINED. SHEAR CUTTING DETECTED SHALL BE RESTORED TO PRIOR CONDITION.

3. CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING/SHORING/BRACING(SOE), IF IT IS DETERMINED SHEAR CUTTING BE GREATER THAN 5'-0" DEEP.

4. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION METHODS TO ASSURE STRUCTURAL STABILITY OF TEMPORARY CONSTRUCTION FENCE (EQ)DURING ALL STAGE OF CONSTRUCTION.

5. PRIOR TO FULL EXCAVATION AND FOUNDATION WORK, OR CONSTRUCTION WORK OF ANY KIND, CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT (i.e. USING 8" CONCRETE BLOCK FOOTING OR ANY OTHER SUPPORT METHODS) TO MAINTAIN THE EXISTING NEIGHBORS' PROPERTY, AND SHALL BE RESPONSIBLE TO REPAIR, REPLACE OR RESTORE TO PRIOR CONDITION.
PROPOSED FIRST FLOOR STRUCTURAL PLAN

PROPOSED SECOND FLOOR STRUCTURAL PLAN

PROPOSED THIRD FLOOR STRUCTURAL PLAN

ADDRESS: 35-01 149 ST, QUEENS, NY 11354

SCALE: 1/4" = 1'-0"
ADDRESS: 35-01 149 ST, QUEENS, NY 11354

WINDOW SCHEDULE

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<tr>
<th>SIZE</th>
<th>TYPE</th>
<th>MIN. EAVE</th>
<th>MIN. SCREEN</th>
<th>MIN. GLASS</th>
<th>MAX. SCREEN</th>
<th>MAX. GLASS</th>
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<td>CASEMENT</td>
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<td>DBL. HUNG</td>
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PARTITION SCHEDULE

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<td>WOOD</td>
<td>PLYWOOD</td>
<td>WALL WITH PLYWOOD FACE ON INSIDE AND BACK</td>
</tr>
<tr>
<td>2</td>
<td>5'-0&quot; X 5'-0&quot;</td>
<td>WOOD</td>
<td>PLYWOOD</td>
<td>WALL WITH PLYWOOD FACE ON INSIDE AND BACK</td>
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<tr>
<td>3</td>
<td>2'-4&quot; X 5'-0&quot;</td>
<td>WOOD</td>
<td>PLYWOOD</td>
<td>WALL WITH PLYWOOD FACE ON INSIDE AND BACK</td>
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<tr>
<td>4</td>
<td>4'-0&quot; X 5'-0&quot;</td>
<td>WOOD</td>
<td>PLYWOOD</td>
<td>WALL WITH PLYWOOD FACE ON INSIDE AND BACK</td>
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FINISH SCHEDULE

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<th>BASE/CEIL.</th>
<th>FLOOR/CEIL.</th>
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<td>GYP. BD</td>
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</table>

REV: A
SCALE: N.T.S.
PLUMBING NOTE:
1. W.C. W.C. LAV. MIN 6" PLAN
2. INSULATE ALL HOT WATER LINES WITH 1" THICK 4 LBS. DENSITY IRON BELL AND SPIGOT PIPING. SOIL, WASTE, STORM AND VENT FIBERGLASS WITH WHITE FIRE RETARDANT JACKETS, FITTINGS TO PIPING ABOVE GROUND SHALL BE HUB LESS CAST IRON WITH IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER TO INTERVALS PER UPC CODE.
3. PROVIDE CLEAN-CUT AT THE BASE OF ALL SOIL, VENT, AND LEADER RIM OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM RIM ELEVATIONS ARE CONSIDERED SET AT FLOOR. PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENT CONCERNING THIS PROJECT AND INCLUDE A NOTIFICATION OF EQUIPMENT AND DRIP POCKETS. THE CONTRACTOR SHOULD INSTALL SPECIAL PIPING TO DRAIN THE UNDERSIDE OF THE FINISH CEILING.
4. PROVIDE 3'-6" CLEARANCE IN FRONT OF BOILER FOR MAINTENANCE. PROVIDE FLOOR DRAIN IN BOILER ROOM.
5. ALL WATER SUPPLIED TO PLUMBING FIXTURES SHALL BE OVER THE ALLOWABLE FLOW CALCULATION.
6. ALL FRESH AIR INTAKES.
7. INSTALLATION OF GAS PIPING AS PER P115.5.
8. GAS SERVICE PIPING CONNECTION AS PER P115.2.
9. GAS PIPING SHALL BE SCREWED BLACK IRON WITH IRON FITTING. INSTALLATION OF PIPE, TRAP, AND VALVE AS PER MANUFACTURER SPECIFICATIONS.
10. ALL PLUMBING AND GAS INSTALLATION TO BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND GOVERNMENT CODES AND REGULATIONS.
11. NO STORAGE PERMITTED WITHIN BOILER ROOM.
12. PROVIDE SHUT-OFF VALVES AT ALL FIXTURES PROVIDED BY THE CONTRACTOR.
13. PROVIDE ALL REQUIRED RISER/DROPS TO INSTALL WATER PIPING WHERE BRANCH WATER SUPPLIES ARE TRAPPED, PROVIDE DRAIN BY CIRCULATING PUMP WHEN NECESSARY.
14. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES.
15. ALL VENTS ARE TO BE CONSTRUCTED SHOULDER HANGING AND SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
16. PROVIDE FLUSHING, NY 12354 TEL: 718-383-8009 SERIAL # : 1510A013998 U.L. # : 1738 NO. OF BRANCHES TO WHICH THE NEW WASTE LINE IS REJECTED AND WILL BE REMOVED AND REINSTALLED TO PER THE MANUFACTURER SPECIFICATIONS.
17. ALL BOILERS AND HOT HEATERS DUCTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
18. PROVIDE 3'-6" CLEARANCE IN FRONT OF BOILER FOR MAINTENANCE.
19. PROVIDE A LAYER OF 5/8 GYP. BD TYPE X. BOILER ROOM CEILING:
20. PROVIDE FLOOR DRAIN IN BOILER ROOM.
21. PROVIDE 3'-6" CLEARANCE AT THE BASE OF ALL SOIL, VENT, AND LEADER RIM OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM RIM ELEVATIONS ARE CONSIDERED SET AT FLOOR. PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENT CONCERNING THIS PROJECT AND INCLUDE A NOTIFICATION OF EQUIPMENT AND DRIP POCKETS. THE CONTRACTOR SHOULD INSTALL SPECIAL PIPING TO DRAIN THE UNDERSIDE OF THE FINISH CEILING.
22. PROVIDE 3'-6" CLEARANCE AT THE BASE OF ALL SOIL, VENT, AND LEADER RIM OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM RIM ELEVATIONS ARE CONSIDERED SET AT FLOOR. PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENT CONCERNING THIS PROJECT AND INCLUDE A NOTIFICATION OF EQUIPMENT AND DRIP POCKETS. THE CONTRACTOR SHOULD INSTALL SPECIAL PIPING TO DRAIN THE UNDERSIDE OF THE FINISH CEILING.
23. PROVIDE SHUT-OFF VALVES AT ALL FIXTURES PROVIDED BY THE CONTRACTOR.
24. PROVIDE ALL REQUIRED RISER/DROPS TO INSTALL WATER PIPING WHERE BRANCH WATER SUPPLIES ARE TRAPPED, PROVIDE DRAIN BY CIRCULATING PUMP WHEN NECESSARY.
25. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES.
26. PROVIDE 3'-6'' CLEARANCE AT THE BASE OF ALL SOIL, VENT, AND LEADER RIM OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM RIM ELEVATIONS ARE CONSIDERED SET AT FLOOR. PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENT CONCERNING THIS PROJECT AND INCLUDE A NOTIFICATION OF EQUIPMENT AND DRIP POCKETS. THE CONTRACTOR SHOULD INSTALL SPECIAL PIPING TO DRAIN THE UNDERSIDE OF THE FINISH CEILING.
27. PROVIDE 3'-6'' CLEARANCE AT THE BASE OF ALL SOIL, VENT, AND LEADER RIM OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM RIM ELEVATIONS ARE CONSIDERED SET AT FLOOR. PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENT CONCERNING THIS PROJECT AND INCLUDE A NOTIFICATION OF EQUIPMENT AND DRIP POCKETS. THE CONTRACTOR SHOULD INSTALL SPECIAL PIPING TO DRAIN THE UNDERSIDE OF THE FINISH CEILING.
28. PROVIDE 3'-6" CLEARANCE AT THE BASE OF ALL SOIL, VENT, AND LEADER RIM OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM RIM ELEVATIONS ARE CONSIDERED SET AT FLOOR. PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENT CONCERNING THIS PROJECT AND INCLUDE A NOTIFICATION OF EQUIPMENT AND DRIP POCKETS. THE CONTRACTOR SHOULD INSTALL SPECIAL PIPING TO DRAIN THE UNDERSIDE OF THE FINISH CEILING.
29. PROVIDE 3'-6'' CLEARANCE AT THE BASE OF ALL SOIL, VENT, AND LEADER RIM OR SHALL BE PROVIDED WITH APPROVED TYPE VACUUM RIM ELEVATIONS ARE CONSIDERED SET AT FLOOR. PLUMBING CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENT CONCERNING THIS PROJECT AND INCLUDE A NOTIFICATION OF EQUIPMENT AND DRIP POCKETS. THE CONTRACTOR SHOULD INSTALL SPECIAL PIPING TO DRAIN THE UNDERSIDE OF THE FINISH CEILING.
GENERAL NOTES

1. All work shall conform to the requirements of the New York City Building Codes.
2. Contractor to check and verify all conditions and dimensions at the site before commencing the work. The engineer shall be notified of any unusual conditions.
3. Contractor is to furnish necessary compensation and ensure all permits before the start of work.
4. Contractor shall not scale drawings to obtain dimensions. If there is a discrepancy on scale of dimensions, designated engineer or applicant of records shall not be responsible.
5. Applicant of record may not be retained for field supervision or inspection.
6. The contractor is to retain a licensed professional engineer as part of the contract. On behalf of the owner to perform all required special inspections listed in drawings.
7. Contractor shall take all necessary precautions to ensure the safety and proper protection of neighbor properties, affected by excavation and foundation work.
8. Five days prior notice shall be sent to adjacent property owners by registered mail and return receipt is required.
9. All materials, assemblies, and equipment shall be used in accordance with 2008 NYC Building Code requirements.
10. The contractor shall be responsible for any damage of adjacent properties, including noise, vibration, and dust protection.

CONSTRUCTION PROCEDURE FOR SHEETING/SHORING/BRACING

1. Excavate pilot cut (min. 8" deep) to verify the adjacent building/foundation conditions.
2. Drive soldier beam to the required depth, including 3'-0" embedment.
3. Install wood lagging while excavating to subgrade and erect struts as work in progress.
4. Set forms and pour concrete for foundation wall footing in accordance with 2008 NYC Building Code requirements.
5. Provide shoring details in accordance with mechanical tampers, if used.
6. Steel soldier piles shall be incorporated into new concrete foundation system.

ADDITIONAL PROTECTION NOTES

1. All wood lagging shall be full size sawn lumber.
2. All wood lagging shall have an allowable bending stress, Fb = 1250 psi. min.
3. All lagging shall be woven or overlapped into place. No pile driving or permitted.
4. Steel soldier piles shall have a yield stress, FY = 50 ksi or higher.
5. Shoring to be performed per details shown on the drawings.
6. Contractor to notify designated special inspector as hours prior to commencing shoring operations.
7. Shoring/bracing systems may not be required with sheercut excavation less than 6'-0".
8. Adjacent buildings shall be supported at the existing adjacent foundation and footing depth during excavation or work progressing from top to bottom, and shall be supported by the contractor immediately to prevent any damage and ensure adequate protection of adjacent buildings.

SHORING SECTION-1

- Soldier piles to be incorporated into new concrete foundation system.

SHORING SECTION-2

- Soldier piles to be incorporated into new concrete foundation system.

SHORING DETAILS

- Structural steel: ASTM - A572 Fy = 50 ksi
- Welding electrodes: E70 series
- All levels are in BR.

NOTES:

- See detail 'C'
- See also S001 "Shoring Plan View"