

**team dtc**

## **Automatic Grease Recovery Unit Upgrades at Kitchens**

**ON-CALL ENGINEERING  
SERVICES FOR:**

**TOWN OF TRUMBULL  
BOARD OF EDUCATION  
6254 MAIN STREET  
TRUMBULL, CT**

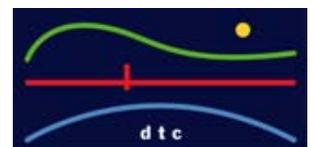


**FACILITIES TO BE UPGRADED:**

**BOOTH HILL SCHOOL  
DANIELS FARM SCHOOL  
JANE RYAN SCHOOL  
HILLCREST MIDDLE SCHOOL  
MADISON MIDDLE SCHOOL  
MIDDLEBROOK SCHOOL  
TASHUA SCHOOL**

**MONDAY, JUNE 13, 2011**

DTC Project No. 10 176 100



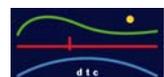
**Diversified Technology Consultants**  
Hamden, CT      Andover, MA



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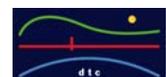
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**SCHOOLS DIRECTORY, DESCRIPTION & SPECIFICATION**

<b>Automatic Grease Recovery Unit (AGRU) Schedule</b>				
<b>SCHOOL/PROJECT</b>	<b>MANUFACTURE</b>	<b>MODEL</b>	<b>DESCRIPTION</b>	<b>NOTES</b>
<b>BOOTH HILL SCHOOL</b> 545 Booth Hill Rd. Trumbull 06611-4003 (203) 452-4377	Thermaco, Inc.	W-350-IS	Point source automatic grease removal system.	
<b>DANIELS FARM SCHOOL</b> 710 Daniels Farm Rd. Trumbull 06611-5539 (203) 452-4388	Thermaco, Inc.	W-350-IS	Point source automatic grease removal system.	
<b>JANE RYAN SCHOOL</b> 190 Park Lane Trumbull 06611-2399 (203) 452-4400	Thermaco, Inc.	W-350-IS	Point source automatic grease removal system.	
<b>HILLCREST MIDDLE SCHOOL</b> 530 Daniels Farm Rd. Trumbull 06611-5547 (203) 452-4466	Thermaco, Inc.	(2) W-350-IS	Point source automatic grease removal system.	Note: 2 units are required for this project.
<b>MADISON MIDDLE SCHOOL</b> 4630 Madison Ave. Trumbull 06611-1732 (203) 452-4499	Thermaco, Inc.	W-350-IS	Point source automatic grease removal system.	
<b>MIDDLEBROOK SCHOOL</b> 220 Middlebrooks Ave Trumbull 06611-3015 (203) 452-4411	Thermaco, Inc.	W-350-IS	Point source automatic grease removal system.	
<b>TASHUA SCHOOL</b> 401 Stonehouse Rd. Trumbull 06611-1651 (203) 452-4433	Thermaco, Inc.	W-350-IS	Point source automatic grease removal system.	
<p>Specification: Fully automatic self cleaning cycle. Removes collected grease &amp; oils from tank automatically. With 24-hour timer and grease collector. Stainless Steel exterior.</p> <p>Materials: Exterior: 304 Stainless Steel, Bright Finish, Interior: Rotationally Molded Polyethylene                      Electrical: 115 VAC, 60 Hz, 520 Watts (4.5 Amps)                      Maximum Inlet Flow Rate: 35 GPM                      Number of Skimming Wheels: 1                      Skimming Rate: 20 Pounds Per Hour                      Grease Retention Capacity: 70+ Pounds                      Internal Solids Strainer Capacity: 1.85 Gallons</p>				





## **SEPARATOR DESCRIPTION & SPECIFICATION**

### **Separator Specifications:**

Furnish and install Automatic Grease Recovery Units with bright finish type 304 stainless steel exterior, rotationally molded polyethylene interior automatic self-cleaning grease and oil recovery separator(s) for floor mounted installation, rated at 35 gallons per minute peak flow, 70 pounds of grease capacity and including as an integral part of the unit, 1 rotating gear hydrophobic wheel assembly for automatic grease/oil removal, an integral flow control device, self-regulating enclosed electric immersion heater, a vessel vent, an integral gas trap, an integral programmable 24-hour multi-event time control, a field reversible motor location, a field reversible grease/oil sump outlet, quick release stainless steel lid clamps, a gasketed and fully removable 304 stainless steel lid, a lift-out strainer basket access, an internal stainless steel strainer basket for collection of coarse solids, and a separate grease and oils collection container. Electric assembly shall be tested to comply with pertinent sections of the Standards for Safety ANSI/UL 73 and/or ANSI/UL 1004. Electric motor equipped with overload protection. Two (2) no-hub connectors for plumbing connection provided.

### **Installation Requirements:**

Unit may need to be semi-recessed in floor. Coordinate with kitchen equipment to make determination and install as required.

Allow a minimum of 14" clearance from top of tank for removal of unit lid.

Read instruction manual included with system before doing anything.

Install unit allowing for the minimum clearances shown on manufactures specification sheet.

Make sure the height above the Internal Strainer Access Cover is enough to remove the strainer.

Make piping connections with rubber "No Hub" connectors (provided).

Keep outlet piping as straight as possible. Use only "sweep" connections.

Install vent on outlet piping.

Fill the tank with water before energizing the power to the motor and heater.

Set Programmable Time Controller for proper operating times.

Do not install "P" trap on outlet connection of tank. (Note: the unit already has an internal gas trap).

Do not reduce pipe size on outlet piping.

### **FIELD QUALITY CONTROL:**

Perform tests and inspections and prepare test reports.

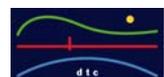
Manufacturer's Field Service: Engage a factory-authorized service representative to inspect field-assembled FOG disposal systems and grease removal devices and their installation, including piping and electrical connections, and to assist in testing.

### **Tests and Inspections:**

Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.

### **Demonstration:**

Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain FOG disposal systems and grease removal devices.





## **GENERAL PROVISIONS**

### **Scope:**

This work shall consist of the furnishings of all labor, materials and services required complete, ready for correct operation for all work called for by the accompanying drawings and specifications. All work shall be performed in accordance with the code, state and local code.

The data indicated in these drawings and specifications are as exact as could be secured. But their absolute accuracy is not guaranteed. Do not scale drawings. Exact locations, distances, levels and other conditions will be governed by the building. Use the drawings and specifications for guidance and secure the engineer's approval of changes in locations. Circuits, where shown on drawings, are so indicated primarily for the purpose of indicating the general circuit plan and do not necessarily indicate the exact location of routing of the raceways unless specifically indicated. Circuits shall be run in suit conditions considering structural features, other trades, construction methods and good installation practice.

Before submitting a bid, the contractor shall visit the site and become thoroughly familiar with all existing conditions under which the work and work of other trades will be installed. This contract includes all necessary offsets, transitions, modifications and relocation required to install all new equipment in new or existing spaces. Contractor shall include any modifications required in existing electrical equipment for installation of new electrical equipment and new equipment of other trades. (Lighting fixtures, devices, conduit wiring, etc.) All new and existing equipment and systems shall be fully operational under this contract before the project is considered complete. The contractor shall be held responsible for any assumptions that are made, any omissions or errors made as a result of failure to visit the site and become thoroughly familiar with the existing conditions and the contract documents of all trades.

Intent of drawings: Drawings are diagrammatic and indicate a general arrangement of work. Basic design concepts indicated are minimal and must be followed or bettered. Do not scale drawings. Field verifies existing conditions for space conditions.

All work shall be performed in accordance with the following approved codes:

Work is not shown in finite detail, but is intended to include items necessary for completion and proper operation.

Large scale drawings take precedence over small scale drawings.

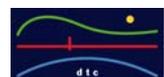
### **Codes, Regulations and Standards:**

2003 International Building Code and referenced publications  
State Building Code – 2005 Connecticut Supplement and 2009 Amendment  
2003 International Plumbing Code and referenced publications  
Pipe Hangers and Supports: MSS SP-58.  
NFPA - NATIONAL FIRE PROTECTION CODE  
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE  
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS  
OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION  
U.L. - UNDERWRITERS LABORATORIES  
NFPA 70 - NATIONAL ELECTRICAL CODE  
EPA - ENVIRONMENTAL PROTECTION AGENCY  
IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS  
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

### **Permits, Fees and Inspections:**

The contractor shall give all necessary notices, obtain all permits, pay for all government, state sales taxes and applicable fees. The contractor shall file all drawings, complete all documents and obtain all necessary approvals from the proper authority or agency having jurisdiction. Obtain all required certificates of inspection covering work. The contractor shall see that all required inspections and tests are made and shall cooperate to make these tests as thorough and as readily made as possible.

### **Materials and Workmanship:**





All materials and apparatus required for the work, except as otherwise specified, shall be new and of first-class quality. It shall be furnished, delivered, erected, connected, finished in every detail and so selected and arranged as to fit properly into the building spaces. Where no specific kind or quality material is given, a first-class standard article as accepted by the engineer shall be furnished.

All equipment and materials shall be specification grade and bear the underwriter's label. No substitute or alternate equipment, material, etc. will be considered for this project.

All work shall be of a quality consistent with good trade practice and shall be installed in a neat, workmanlike manner. The engineer/owner reserves the right to reject any work which, in his opinion, has been installed in a substandard, dangerous or in a unserviceable manner. The contractor shall replace rejected work in a satisfactory manner at no extra cost to the owner.

**Guarantees:**

All workmanship and materials shall be fully guaranteed for a period of one year after acceptance of the entire installation covered by this contract. Should any defects occur during the guaranteed period, the contractor shall repair and/or replace all defective equipment, material and/or work at no extra charge to the Owner.

Supply two copies of a warranty countersigned and guaranteed by contractor, stating that imperfect system operation and all defects in labor and materials of work will be repaired without cost to owner for a period of one year from date of substantial completion, and stating that all equipment has been fully serviced and left in proper operating condition. Also guarantee that servicing will be provided without cost during guarantee period.

**Coordination:**

All work shall be carried out in conjunction with other trades and full cooperation shall be given in order that all work may proceed with a minimum of delay and interference.

**Equipment Protection:**

Properly and completely protect against all damage, all apparatus, equipment, etc., included in this contract. The contractor will be held responsible for any damage to furnished apparatus, equipment, etc., until final acceptance.

**Property Protection:**

The contractor shall take whatever means necessary and/or required to protect owner's property within the working areas from dust, debris and other matter generated by the work. No work shall commence in areas where protection is required until approval has been given to the contractor by the owner.

**Manufacturer's Instruction:**

Install all equipment in accordance with manufacturer's instructions or requirements for proper operation and maintenance.

**Cutting, Patching, Repairing and Painting:**

This contractor shall perform all cutting, patching, repairing and painting for all of their items and equipment called for under this contract.

**Fire Stops and Seals:**

Penetrations through fire-rated walls, ceiling or floors in which cables or conduits pass shall be filled solidly by U.L. approved fire-stop materials, classified for an hour rating equal to the fire rating of the wall, ceiling or floor. Provide to 3m brand fire barrier cp25wb caulk or approved equivalent.

Sealing bushings shall be used on conduit and cable ends to effectively prevent the intrusion of water, a damp or corrosive atmosphere, draft or dust.

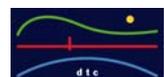
**Access Panels:**

The contractor shall furnish and install access panels and doors as required for access to inaccessible pullboxes, junction boxes and other specialties.

The contractor shall coordinate the locations of access panels and doors with the general contractor and other trades. Final locations shall be subject to the approval of the owner.

**Coordination of Work:**

Carefully check space requirements with other trades to insure that all materials can be installed in the spaces allotted thereto, including finished suspended ceilings.





Transmit to other trades all information required for work to be provided under their respective sections in ample time for installation.

Wherever work interconnects with work of other trades, coordinate with other trades to insure that all trades have the information necessary so they may properly install all the necessary connections and equipment. Identify all work items (valves, drains, etc.) in an approved manner in order that the ceiling subcontractor will know where to install access doors and panels. Consult with other trades regarding equipment so, wherever possible, motors and controls are of the same manufacture.

Furnish and set all sleeves for passage of pipes and conduits through structural masonry in concrete walls and floors, and elsewhere as will be required for the proper protection of each pipe passing through building surfaces. Provide required supports and hangers for piping, fixtures and equipment, so loading will not exceed allowable loadings of structure.

Provide all items and work called for in this division of the specifications in accordance with the contract documents. This includes all incidentals, equipment, appliances, services, hoisting, scaffolding, supports, tools, supervision, labor consumable items, fees, licenses, etc., necessary to provide complete systems. Perform start up and check out on each item and system to provide fully operable systems.

Comply with all applicable governmental regulations. Comply with all Federal, State, City and other applicable codes and ordinances subject to plumbing design. If any conflict arises between these specifications, codes and ordinances, immediately notify the architect. Do not deviate from the specifications nor install any work which may be in conflict with codes and ordinances until the conflict is resolved and the solution approved by the architect.

Conform the plumbing work to the requirements herein. Provide offsets, fittings, drains, and accessories as may be required to meet such conditions.

**Submittals:**

**Product Data:** Submit manufacturer's technical product data, including rated capacities of selected model clearly indicated, and furnished specialties and accessories; and installation instructions.

**Shop Drawings:** Submit manufacturer's assembly type shop drawings indicating dimensions, roughing-in requirements, required clearances, and methods of assembly of components and anchorages.

**Maintenance Data:** Submit maintenance data and parts lists for each item and accessory; including "trouble-shooting" maintenance guide. Include this data, product data, and shop drawings in maintenance manual.

**Accessibility:**

Place valves, unions, drains, and items requiring maintenance, adjustment, or repair in accessible locations.

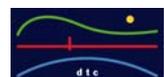
To facilitate electrical connections equip electrical items with NEMA enclosures having adequate knockouts, connectors, terminal blocks and/or contacts.

**Operating Instructions:**

Instruct owner's operating personnel on proper care, maintenance and operating procedures.

**Testing:**

**General:** Test plumbing and electrical systems to satisfaction of building official. Do not close in, conceal, or cover up any work until it has been tested, inspected, and approved.





## **PLUMBING SPECIFICATIONS**

### **Plumbing Materials:**

Sanitary waste and drainage piping above grade: standard weight, bell and spigot, type 1 schedule 40 PVC pipe with neoprene joints; ASTM D-2665.

Sanitary waste and drainage piping below grade, in mechanical room or in tunnel: standard weight cast iron, CISPI 301, hubless, service weight. Each length of pipe shall bear the insignia of the Cast Iron Soil Pipe Institute (CISPI).  
Fittings: cast iron (Type CI) ASTM A74-66. Joints: Neoprene gaskets and four (4) band 24 gauge, Type 304 stainless steel clamp and shield assemblies.

Sanitary vent: Piping – type 1 schedule 40 PVC with socket weld joints; ASTM D-2665.

Air admittance valve: AAV – Studor #20310, mini-vent.

### **Pipe Hanger Components:**

Components: Designed with minimum safety factor of 5; of all metal construction; assembled with corrosion resistant square head machine bolts and square or hex head nuts, steel washers, in such manner as to prevent self-disengagement. Pipe Attachments: Capable of vertical adjustment under load, shaped to OD of piping, sized to allow continuous insulation.

Surface Finish – Generally: Corrosion resistant paint coating.

Surface Finish – Uninsulated copper and brass piping, copper-plated or plastic coated.

Surface Finish – Chrome plated piping: chrome plated.

### **Installation – General:**

Mechanical Coupling: Use manufacturer's materials and methods. Pipe Hanger and support installation Refer to MSS-SP-58; Standard for pipe hangers and supports.

Support, anchor, and guide piping systems to withstand static and dynamic load conditions, to allow for expansion and contraction; to prevent vibration and swaying; to maintain alignment and minimize vertical deflection.

Do not support piping from other piping. Do not use wire, tape, metal bands, or other make-shift devices as means of support or attachment.

### **Escutcheons:**

Painted surfaces: Prime coated sheet steel. Acoustical surfaces: Factory painted to match surface sheet steel.

Prefinished surfaces: Chrome-plated cast brass.

### **Pipe Sleeves, Seals and Adaptors:**

Interior partitions: #20 gauge galvanized steel, lock seam, joint.

### **Fire/Smoke Stopping:**

Fill void space between piping and pipe sleeves with an approved fire/smoke seal.

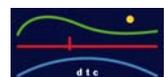
### **Renovation Work:**

All equipment and piping, etc. to be removed, shall be disposed of, turned over to the owner, or salvaged as directed by the owner. They shall not be removed from the premises without the owner's approval.

All piping to be removed shall be properly plugged or capped, so that upon completion of all work, all abandoned piping shall be concealed in finished area.

No dead ends shall be left on any piping upon completion of work. All existing exposed, unnecessary piping related to work being removed shall be completely removed.

Reroute or remove all existing piping where necessary to avoid new equipment, structural, or masonry work as required by the proposed alteration work. Existing exposed, piping not to be revised, and not specifically noted to be abandoned shall be removed.





All systems shall be left in perfect working order upon completion of all new work.  
No removed existing piping, etc. shall be reused.

## **ELECTRICAL SPECIFICATIONS**

### **Description:**

All materials and equipment provided under this section shall be new, first grade, best of their respective kinds and in no way shall they be less than the quality and intent set fourth under this section. They shall meet the requirements of all standards set up to govern the manufacturer of electrical materials and comply with all applicable codes and standards.

### **Wire:**

Conductors shall be U.L. listed, 600 volts, 90 deg. C., single conductor type THWN/THHN. 98% conductivity, annealed uncoated copper with pvc insulation covered with nylon sheath jacket. Tested in accordance with the requirements of Underwriters Laboratories Standard 83. Wire shall be identified by surface marking indicating manufacturer's identification conductor size and metal, voltage rating, U.L. symbol and type designation. Conductors shall be stranded. Minimum size shall be #12 AWG unless otherwise indicated. Manufactured by Rome Cable, Triangle Wire & Cable, General Cable or Essex Wire & Cable.

### **Metal Clad Cable (MC):**

Metal clad cable shall be interlocking galvanized steel armor construction. Color coded thermoplastic/nylon insulation THHN, 90 degree c., 600 volts, copper conductors and internal insulated equipment copper ground conductor. Marker tape and cable tape over minimum size #12 AWG unless otherwise indicated. Manufactured by American Flexible Conduit, Triangle Wire and Cable, General Cable or Standard Cable.

### **Fittings:**

Insulation bushings shall be high impact thermoplastic phenolic with 150 deg. C. UI temperature rating.

Insulated grounding bushings shall be malleable iron zinc plated with molded on phenolic insulation and lay-in grounding lug.

Conduit locknuts shall be heavy nut stock steel-zinc plated.

Conduit straps shall be snap-type, double ribbed steel-zinc plated.

Metal clad cable conduit connectors shall be malleable iron-zinc plated, male hub threads with locknut.

Conduit fittings shall be manufactured by O/Z Gedney, Crouse-Hinds Or Appleton.

### **Cable Ties:**

Cable ties shall be fabricated of one-piece hallar with no metal parts. Manufactured by Burndy, T&B, Panduit or Blackburn.

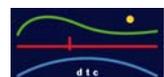
### **Outlet Boxes:**

Outlet boxes shall be galvanized steel, flush or surface mounted and of proper type and size as required for the particular application. Size and type dictated by the number of devices (2 gang minimum with single gang plaster ring for single device locations), number of conductors and wiring method utilized. Boxes shall be adequate size for the installation of conductors without excessive bending or crimping of the conductors and damaging of conductor insulation. Manufactured by Steel City or Raco.

Outlet boxes shall be secured firmly in place to the building structure and set true and square. Provide suitable means to support outlet box to take the weight of the lighting fixture or device. Outlet boxed or box extension rings shall be set flush to the finished wall or ceiling. Boxes must be attached that they will not 'rock', 'shift' or 'move in and out' when devices are used. In no case shall boxes be installed back-to-back in a common wall dividing two spaces.

### **Circuit Breakers:**

Branch circuit breakers shall be quick-make, quick-break, bolt-in thermalmagnetic type with visible current rating and trip position. Manufactured by general electric, Siemens, Square 'D' or Cutler Hammer. Match AIC rating of existing panelboard.





**Junction Boxes:**

Junction boxes shall be of proper type and sizes as required. Code gauge, galvanized steel with knockouts and flanges to receive the covers. Covers shall be flat, of the same material as the box and fastened to the box with machine screws. Manufactured by Hoffman, Square 'D', or Lee Products.

**Wiring Devices:**

All devices shall be commercial specification grade, U.L. listed, self-grounding, ground lug, side/back wired. Color shall be selected by architect or owner unless otherwise indicated. Manufactured by Hubbell, Leviton, or Pass & Seymour.

Receptacles that have a power feed thru (feed in - feed out) arrangement shall be pigtailed. Feed thru feature on duplex receptacles use is not acceptable.

RECEPTACLES: 20A	125V	Hubbell (or equal)
DUPLEX RECEPTACLE		HBL5362
DUPLEX RECEPTACLE - GFCI		GFST20

Wall plates for receptacles shall be smooth thermoplastic or nylon in finished areas. Color to match devices. Manufactured by Leviton or Muleberry.

Wall plates for receptacles shall have panelboard and circuit designation engraved at top of plate.

**Installation:**

All work, materials and manner of installing same shall be in strict accordance with the latest requirements of the national electric code.

All conduit and wiring shall be installed concealed unless otherwise noted.

**Raceways:**

Raceways, enclosures and boxes shall be mechanically joined to form a continuous electrical path. The contractor shall provide approved type pull boxes as required.

**Wiring:**

Provide wiring to all outlets, equipment, apparatus and other specialties under this division that which furnished or provided under other divisions or by the owner.

The term 'wiring' shall be considered to be comprised of the conduit, conductors, connections, etc.

All wiring on drawings is sized for type THWN/THHN copper conductors.

Minimum size wire shall be #12 unless otherwise indicated. All wiring shall be color coded.

Exercise caution in pulling conductors into raceways so as not to damage the insulation. Cable pulling lubricant shall be used to assist in pulling.

Conductor within panelboards, junction boxes, troughs and other equipment where concentrations of conductors are enclosed, shall be neatly arranged and tied with cable ties.

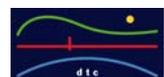
Branch circuit wiring for receptacles and devices above ceiling or in drywall construction space, may be installed in a metal sheathed 'mc' type cable where approved by the NEC and the authority having jurisdiction. Cable shall be supported from structure 4" O.C. with approved cable supports. Provide appropriate grommets for horizontal runs in metal stud partitions. Provide anti-short bushings (red head) under armor jacket at terminations.

Wiring in outlet boxes, junction boxes, cabinet panelboards or equipment shall have a minimum of eight (8") inches length leads for connecting wiring devices to make up circuit splices.

Install copper green insulated grounding conductor in all conduits and raceways.

**Splicing:**

Splicing shall be done with insulated or non-insulated connectors of appropriate types and current-carrying capacity. Non-insulated connectors shall be wrapped with insulating tape to the thickness of the insulation of the conductors being spliced. Electrical tape shall be 3m or super 88 scotch vinyl flame-retardant, cold and weather resistant.





Splices for conductors, sizes #10 AWG or smaller shall be made with U.L. listed spring-type connectors or appropriate current carrying capacity.

**Conductor Identification:**

Conductors #8 AWG and smaller shall have a color-coded insulation.

Branch circuit conductors shall be identified for phase rotation.  
208/120V/3PH

PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

All branch circuit conductors shall be tagged at both ends with wire markers in all panels, motor controls, junction boxes, outlet boxes and device boxes.

**Identification:**

All panels shall have typewritten circuit directories identifying all branch circuits. Provide additional copy of complete updated panel directory to facility engineering.

Update panel directory with added loads.

Use plastic-coated wire markers of the self-adhesive. Wrap around type with permanent factory-printed number, letters and symbols.

Wire markers shall be securely attached at both ends, identifying panel and circuit breaker numbers.

All conductors shall be permanently tagged at time of installation. Labels shall be equal to T&B, Panduit or Ideal.

**Grounding:**

All electrical work shall be grounded and bonded in full conformance with the latest approved edition of the national electrical code and local requirements.

All electrical devices shall be made to form a continuous conducting, ground path of low impedance for ground fault circuits and operation of the circuit protective devices within each circuit.

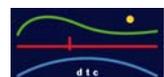
Provide grounding conductor in all raceways.

Ground connections with the grounding conductors shall be made at each outlet box by means of a positively secured grounding clamp, screw or clip.

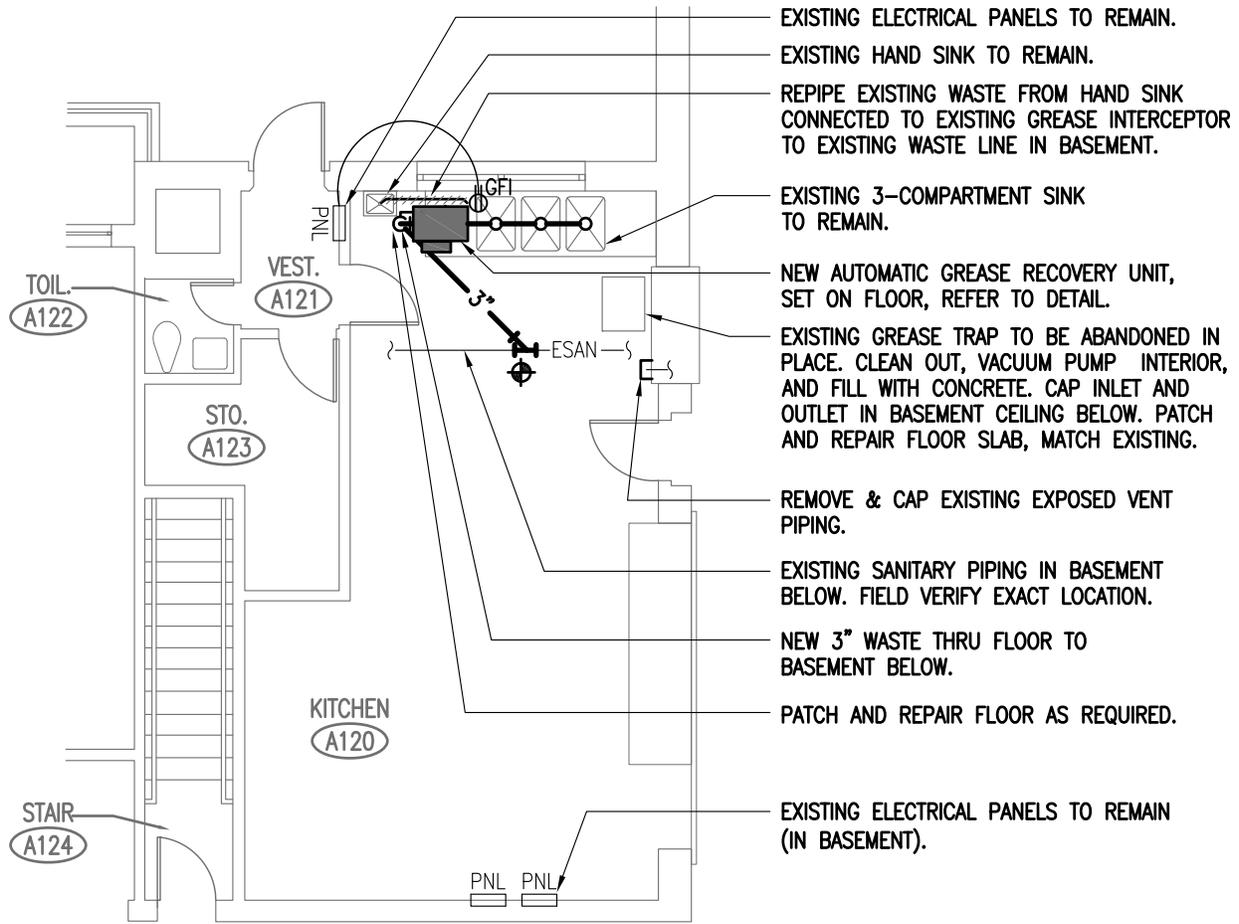
Bonding shall be provided to assure electrical continuity and the capacity to safely conduct any fault current likely to be imposed.

All devices (receptacles, etc.), shall be grounded to conduit system with six (6") inch solid copper #12 AWG insulated wire (green) connected to ground screw in device and fastened to backbox with 10-32x3/8" slotted hexagon head washer face ground with green dye finish.

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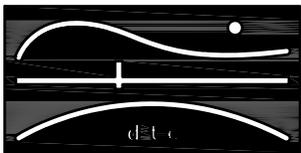
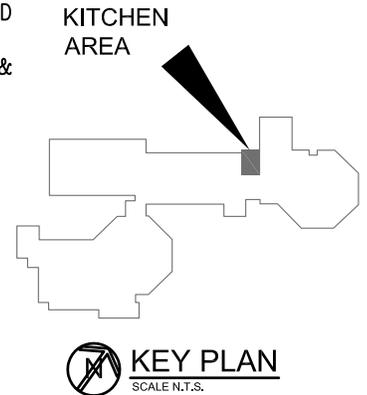
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- EXISTING ELECTRICAL PANELS TO REMAIN.
- EXISTING HAND SINK TO REMAIN.
- REPIPE EXISTING WASTE FROM HAND SINK CONNECTED TO EXISTING GREASE INTERCEPTOR TO EXISTING WASTE LINE IN BASEMENT.
- EXISTING 3-COMPARTMENT SINK TO REMAIN.
- NEW AUTOMATIC GREASE RECOVERY UNIT, SET ON FLOOR, REFER TO DETAIL.
- EXISTING GREASE TRAP TO BE ABANDONED IN PLACE. CLEAN OUT, VACUUM PUMP INTERIOR, AND FILL WITH CONCRETE. CAP INLET AND OUTLET IN BASEMENT CEILING BELOW. PATCH AND REPAIR FLOOR SLAB, MATCH EXISTING.
- REMOVE & CAP EXISTING EXPOSED VENT PIPING.
- EXISTING SANITARY PIPING IN BASEMENT BELOW. FIELD VERIFY EXACT LOCATION.
- NEW 3" WASTE THRU FLOOR TO BASEMENT BELOW.
- PATCH AND REPAIR FLOOR AS REQUIRED.
- EXISTING ELECTRICAL PANELS TO REMAIN (IN BASEMENT).

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL TRADES BEFORE COMMENCING WORK.
2. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS NECESSARY TO INSTALL PLUMBING SYSTEM, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE.
3. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY & ALL DISCREPANCIES.
4. IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY PIPE, FITTING, RISE/DROP OR DETAIL. SYSTEM & COMPONENTS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
5. CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS WITH FACILITIES AND SERVICES TO MEET REQUIREMENTS INDICATED AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
6. CONTRACTOR IS RESPONSIBLE TO PROPERLY PROTECT OWNER'S PROPERTY AND EQUIPMENT FROM INJURY, AND DAMAGE TO SAME SHALL BE REPLACED BY CONTRACTOR.
7. EQUIPMENT & PIPING TO BE INSTALLED IN ACCORDANCE WITH SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELBOWS, TEES, DROPS, AND MISCELLANEOUS PIPING DUE TO ELEVATION CHANGES, OBSTRUCTIONS, COORDINATION WITH OTHER TRADES, ETC. TO INSTALL A COMPLETE, FUNCTIONING, PLUMBING SYSTEM.



DIVERSIFIED TECHNOLOGY CONSULTANTS  
2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
Ph: 203 239 4200 Fax: 203 234 7376  
www.teamdlc.com

**Automatic Grease Recovery Code Upgrades for:**

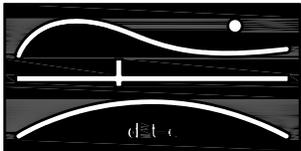
**BOOTH HILL SCHOOL**

**FOG - Fats, Oil & Grease Removal**

545 Booth Hill Road  
Trumbull, Connecticut

ISSUE: 06-13-11  
JOB: 10-176  
DRAWN: JES  
SCALE: 1/8"=1'-0"

**SKP-1**



DIVERSIFIED TECHNOLOGY CONSULTANTS  
 2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
 Ph: 203 239 4200 Fax: 203 234 7376  
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Automatic Grease Recovery Code Upgrades for:

# BOOTH HILL SCHOOL

FOG - Fats, Oil & Grease Removal

545 Booth Hill Road  
 Trumbull, Connecticut

ISSUE: 06-13-11  
 JOB: 10-176  
 DRAWN: JES  
 SCALE: 1/8"=1'-0"

SKP-2

CLEARANCE REQUIRED FOR STRAINER REMOVAL.

NEW DUPLEX OUTLET BY ELECTRICAL CONTRACTOR. WIRE BACK TO PANEL.

REMOVE & DISPOSE OF EXISTING WASTE PIPING. REPIPE EXISTING WASTE FROM HAND SINK.

NEW WIRING TO EXISTING ELECTRICAL PANEL. BRANCH CIRCUIT WIRING SHALL BE 2#12AWG, #12G MC CABLE. NEW 20A-1P CIRCUIT BREAKER IN NEAREST EXISTING PANEL WITH SPARE CAPACITY.

EXISTING 3-COMPARTMENT SINK TO REMAIN.

EXISTING SHUTOFF VALVE TO REMAIN - TYPICAL.

CONNECT NEW 2" WASTE TO EXISTING AT THIS POINT - TYPICAL.

**NOTE:**

1. PAINT ALL EXPOSED PIPING WITH CHROME PLATED SPRAY PAINT.

GREASE/OILS COLLECTION CONTAINER.

NEW AUTOMATIC GREASE RECOVERY UNIT.

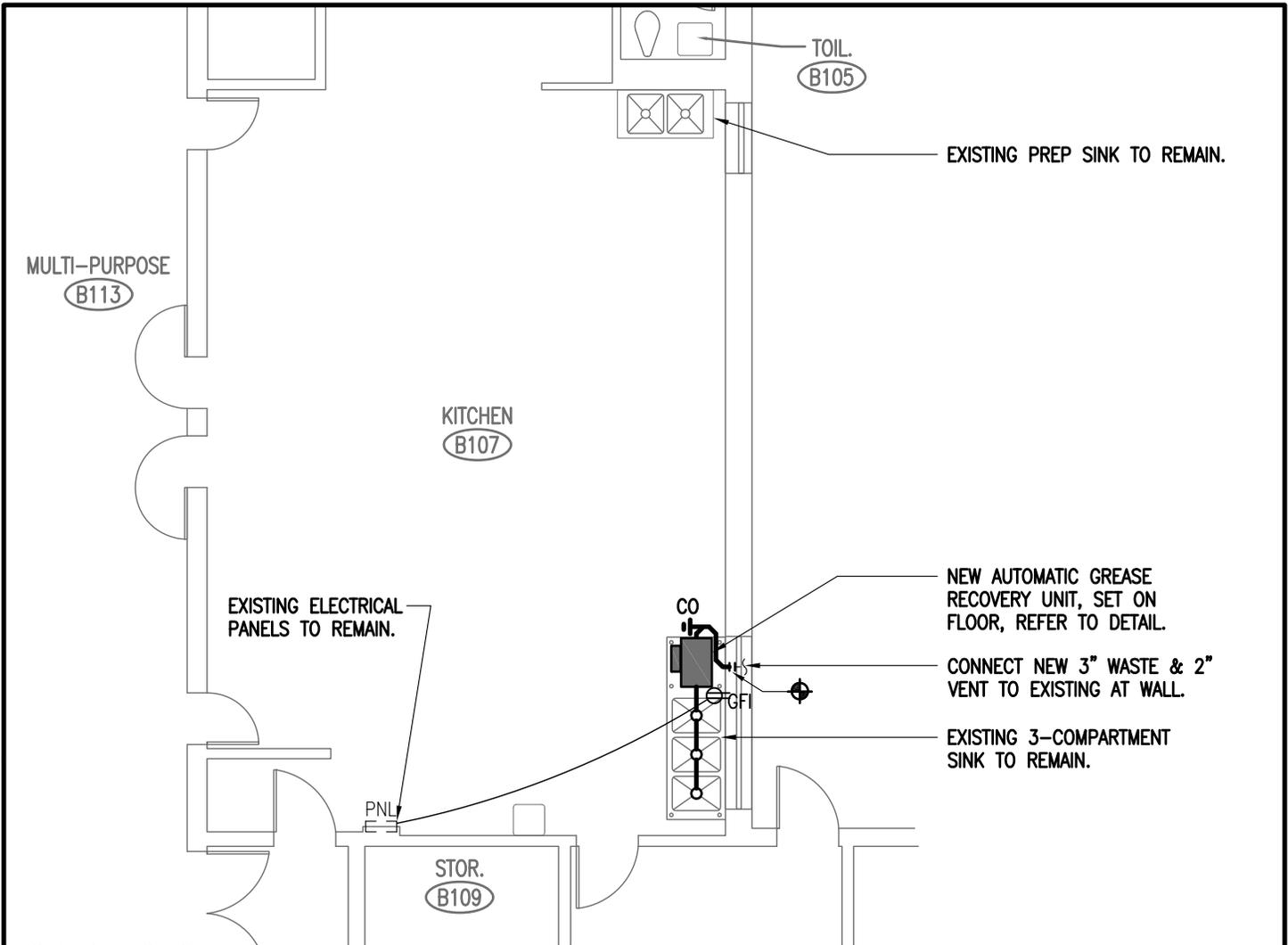
CAULK & SEAL ALL PENETRATIONS THRU FLOOR.

CONNECT NEW WASTE TO EXISTING SANITARY MAIN IN BASEMENT CEILING. FIELD VERIFY EXACT LOCATION.

## DETAIL OF AUTOMATIC GREASE RECOVERY UNIT

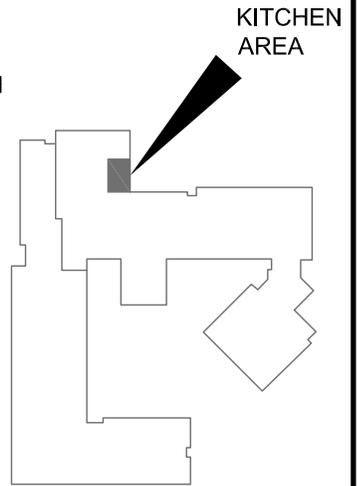
SCALE: NONE

FILE: P:\2010\10176-Trumbull On-Call\107\plumb\0-Current\10176 Trumbull On-Call Daniels Farm.dwg

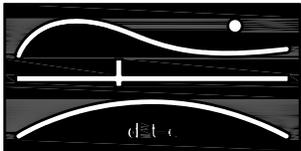


**GENERAL NOTES:**

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**KEY PLAN**  
SCALE N.T.S.



DIVERSIFIED TECHNOLOGY CONSULTANTS  
2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
Ph: 203 239 4200 Fax: 203 234 7376  
www.teamdct.com

**Automatic Grease Recovery Code Upgrades for:**

**DANIELS FARM SCHOOL**

**FOG - Fats, Oil & Grease Removal**

710 Daniels Farm Road  
Trumbull, Connecticut

ISSUE: 06-13-11  
JOB: 10-176  
DRAWN: JES  
SCALE: 1/8"=1'-0"

**SKP-1**

NEW WIRING TO EXISTING ELECTRICAL PANEL. BRANCH CIRCUIT WIRING SHALL BE 2#12AWG, #12G MC CABLE. NEW 20A-1P CIRCUIT BREAKER IN NEAREST EXISTING PANEL WITH SPARE CAPACITY.

EXISTING 3-COMPARTMENT SINK TO REMAIN.

CLEARANCE REQUIRED FOR STRAINER REMOVAL.

NEW DUPLEX OUTLET BY ELECTRICAL CONTRACTOR. WIRE BACK TO PANEL.

NEW AUTOMATIC GREASE RECOVERY UNIT.

CONNECT NEW 3" WASTE TO EXISTING SANITARY MAIN IN WALL BEHIND AGRU & SINK. FIELD VERIFY EXACT LOCATION.

EXISTING SHUTOFF VALVE TO REMAIN - TYPICAL.

CONNECT NEW 2" WASTE TO EXISTING AT THIS POINT - TYPICAL.

**NOTE:**

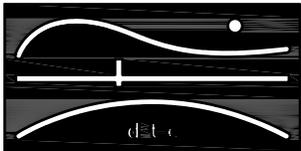
1. PAINT ALL EXPOSED PIPING WITH CHROME PLATED SPRAY PAINT.

REMOVE & DISPOSE OF EXISTING WASTE & VENT PIPING. CAP PIPING AT SANITARY MAIN IN BASEMENT CEILING.

GREASE/OILS COLLECTION CONTAINER.

## DETAIL OF AUTOMATIC GREASE RECOVERY UNIT

SCALE : NONE



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2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
Ph: 203 239 4260 Fax: 203 234 7376  
www.teamdtc.com

Automatic Grease Recovery Code Upgrades for:

# DANIELS FARM SCHOOL

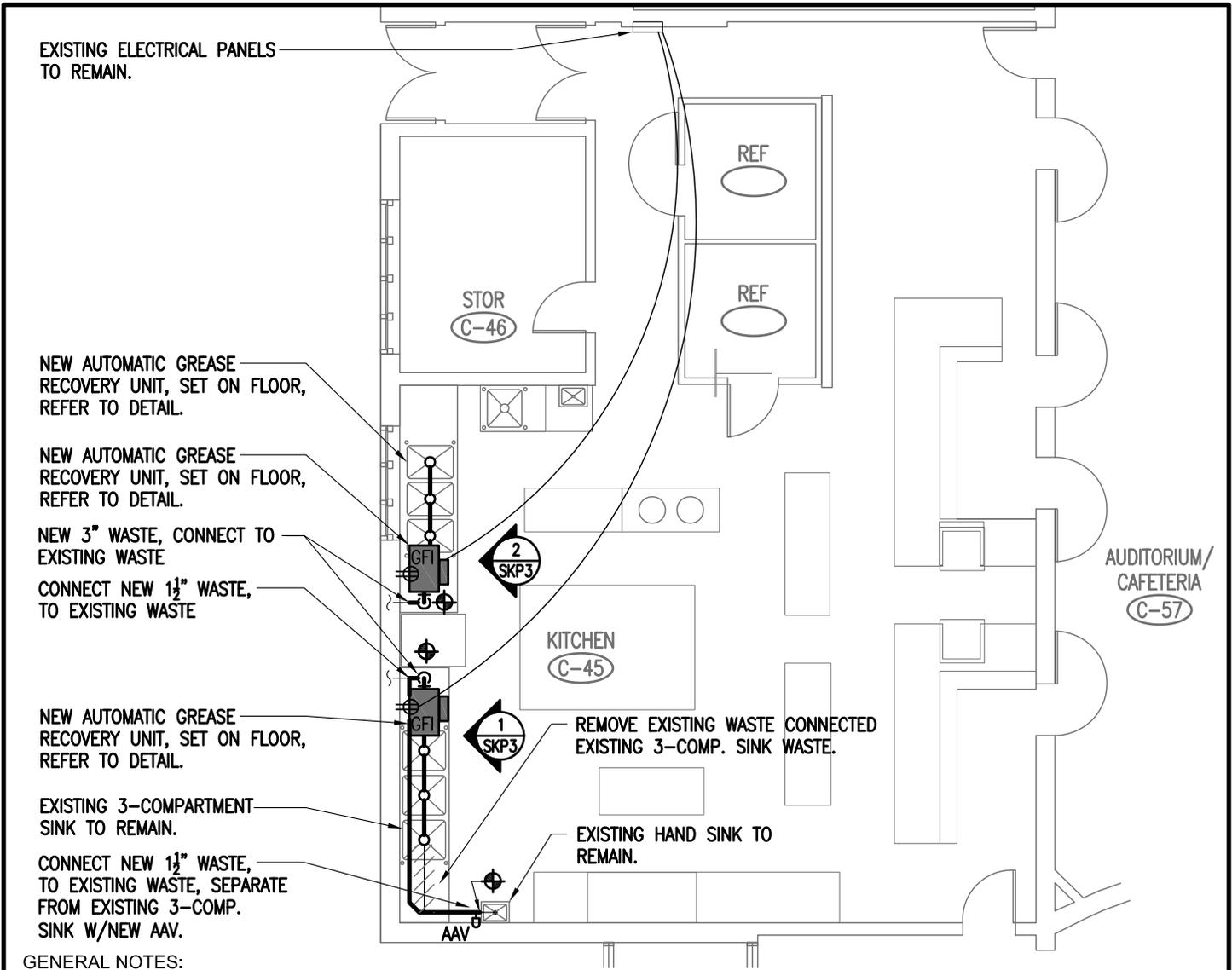
710 Daniels Farm Road  
Trumbull, Connecticut

FOG - Fats, Oil & Grease Removal

ISSUE: 06-13-11  
JOB: 10-176  
DRAWN: JES  
SCALE: 1/8"=1'-0"

SKP-2

FILE: P:\2010\10176-Trumbull On-Call\107\plumb\0-Current\10176 Trumbull On-Call Hillcrest Middle.dwg



**GENERAL NOTES:**

1. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL TRADES BEFORE COMMENCING WORK.
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4. IT IS NOT INTENDED THAT

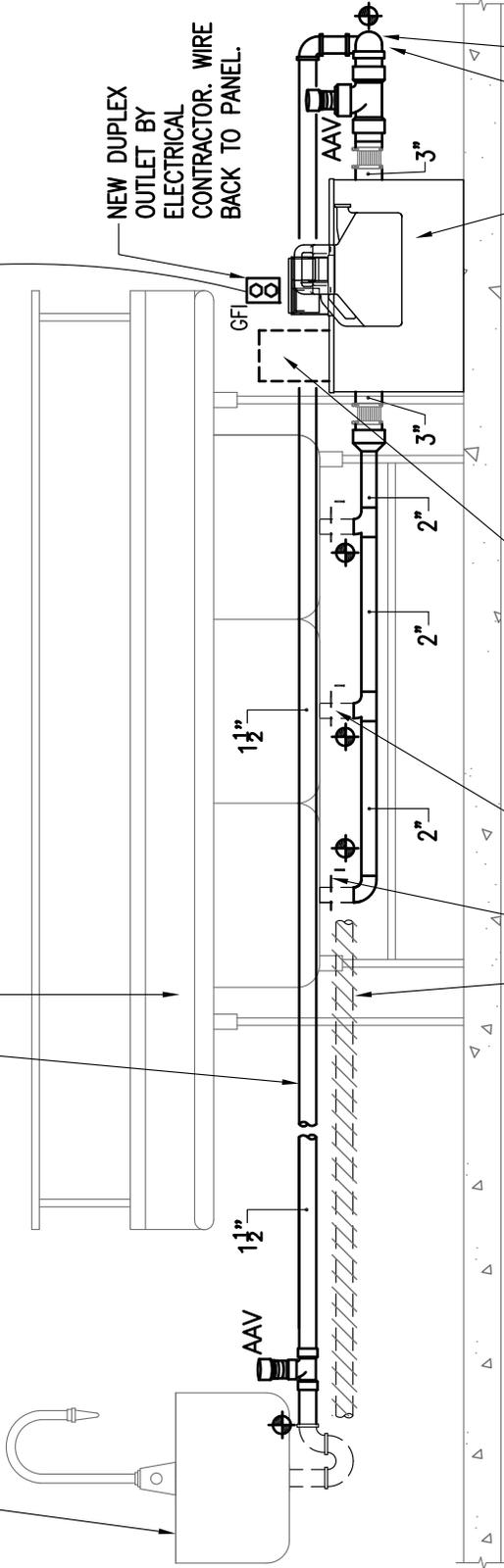
NEW WIRING TO EXISTING ELECTRICAL PANEL. BRANCH CIRCUIT WIRING SHALL BE 2#12AWG, #12G MC CABLE. NEW 20A-1P CIRCUIT BREAKER IN NEAREST EXISTING PANEL WITH SPARE CAPACITY.

EXISTING 3-COMPARTMENT SINK TO REMAIN.

EXISTING HAND SINK TO REMAIN.

REPIPE EXISTING WASTE FROM HAND SINK TO DOWNSTREAM OF GREASE RECOVERY UNIT.

NEW DUPLEX OUTLET BY ELECTRICAL CONTRACTOR. WIRE BACK TO PANEL.



REMOVE & DISPOSE OF EXISTING WASTE PIPING. REPIPE EXISTING WASTE FROM HAND SINK.

EXISTING SHUTOFF VALVE TO REMAIN TYPICAL.

CONNECT NEW 2" WASTE TO EXISTING AT THIS POINT - TYPICAL.

CLEARANCE REQUIRED FOR STRAINER REMOVAL.

NEW AUTOMATIC GREASE RECOVERY UNIT.

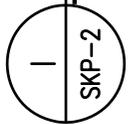
CAULK & SEAL ALL PENETRATIONS THRU FLOOR.

CONNECT NEW 3" WASTE TO EXISTING SANITARY MAIN. FIELD VERIFY EXACT LOCATION.

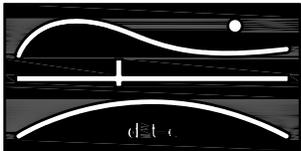
**NOTE:**

1. PAINT ALL EXPOSED PIPING WITH CHROME PLATED SPRAY PAINT.

# DETAIL OF 3-COMPARTMENT & HAND SINK PIPING



SCALE: NONE



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 Ph: 203 239 4200 Fax: 203 234 7376  
 www.teamdtc.com

Automatic Grease Recovery Code Upgrades for:

## HILLCREST MIDDLE SCHOOL

FOG - Fats, Oil & Grease Removal

530 Daniels Farm Road  
 Trumbull, Connecticut

ISSUE:	06-13-11
JOB:	10-176
DRAWN:	JES
SCALE:	1/8"=1'-0"

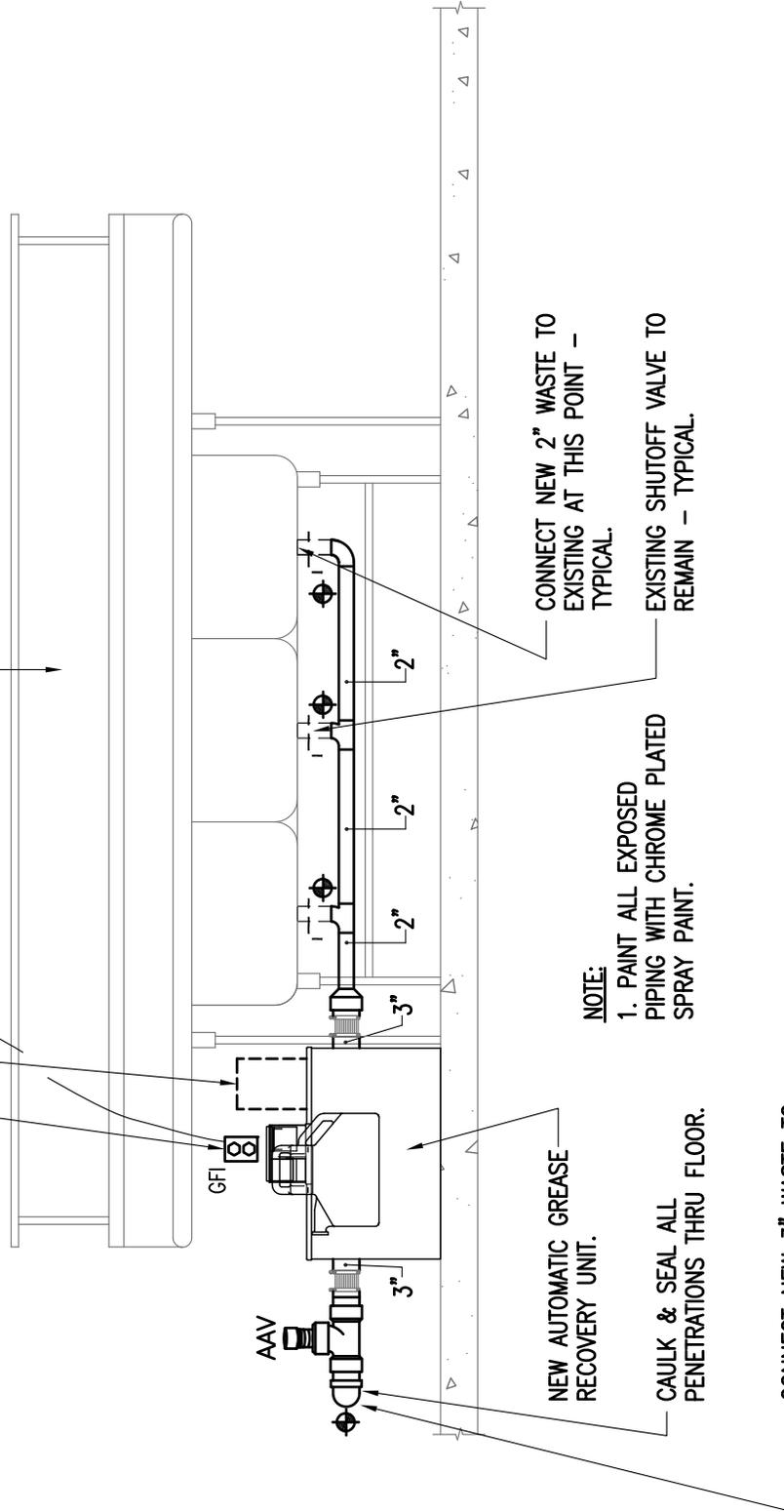
SKP-2

NEW WIRING TO EXISTING ELECTRICAL PANEL.  
 BRANCH CIRCUIT WIRING SHALL BE 2#12AWG, #12G  
 MC CABLE. NEW 20A-1P CIRCUIT BREAKER IN  
 NEAREST EXISTING PANEL WITH SPARE CAPACITY.

EXISTING 3-COMPARTMENT  
 SINK TO REMAIN.

CLEARANCE REQUIRED FOR  
 STRAINER REMOVAL.

NEW DUPLEX OUTLET BY  
 ELECTRICAL CONTRACTOR.  
 WIRE BACK TO PANEL.



CONNECT NEW 2" WASTE TO  
 EXISTING AT THIS POINT --  
 TYPICAL.

EXISTING SHUTOFF VALVE TO  
 REMAIN -- TYPICAL.

**NOTE:**  
 1. PAINT ALL EXPOSED  
 PIPING WITH CHROME PLATED  
 SPRAY PAINT.

NEW AUTOMATIC GREASE  
 RECOVERY UNIT.

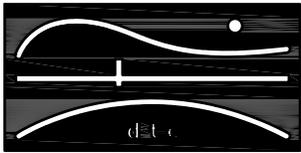
CAULK & SEAL ALL  
 PENETRATIONS THRU FLOOR.

CONNECT NEW 3" WASTE TO  
 EXISTING SANITARY MAIN.  
 FIELD VERIFY EXACT LOCATION.

## DETAIL OF 3-COMPARTMENT SINK PIPING

1  
 SKP-3

SCALE: NONE



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 2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
 Ph: 203 239 4200 Fax: 203 234 7376  
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Automatic Grease Recovery Code Upgrades for:

# HILLCREST MIDDLE SCHOOL

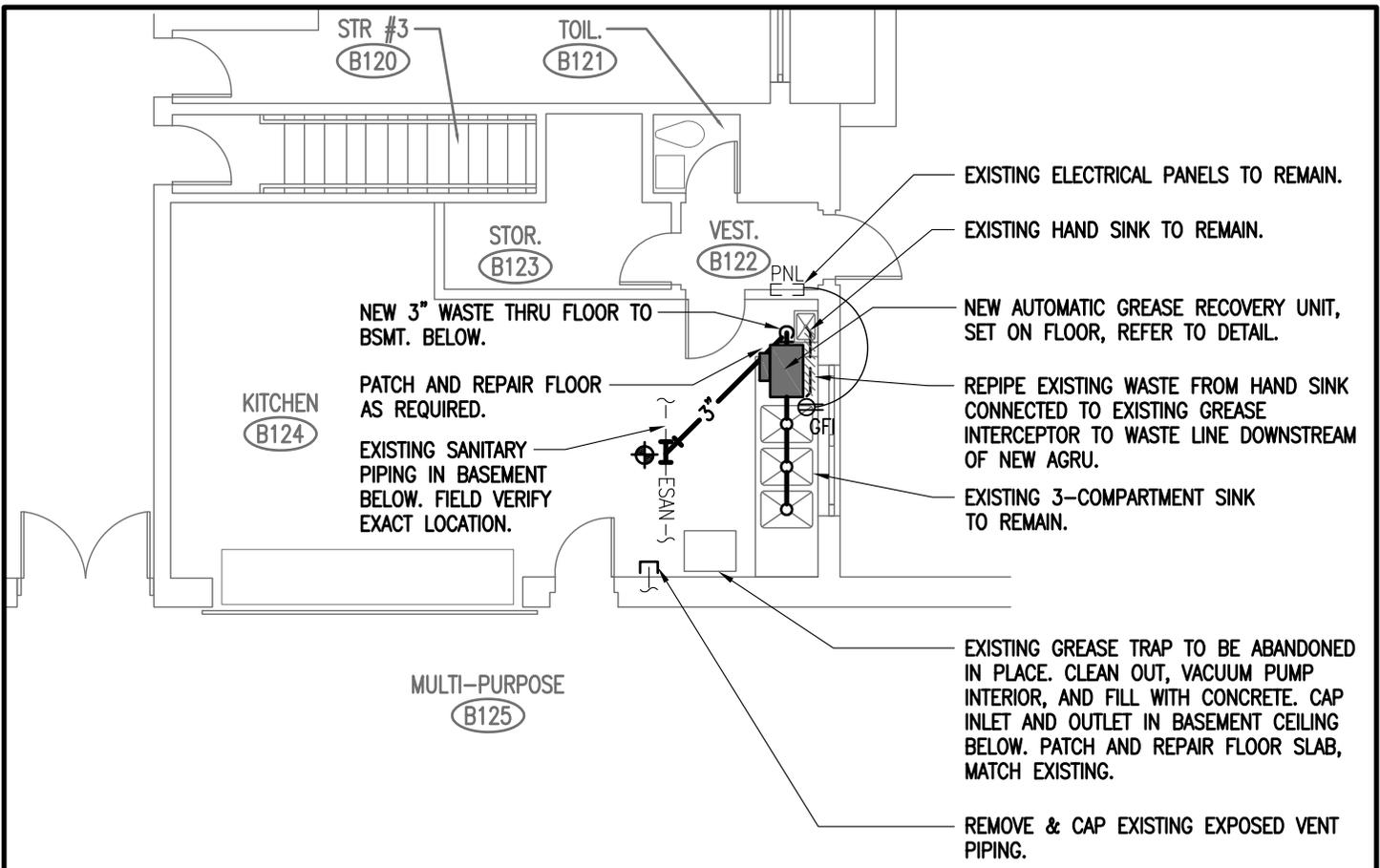
FOG - Fats, Oil & Grease Removal

530 Daniels Farm Road  
 Trumbull, Connecticut

ISSUE: 06-13-11  
 JOB: 10-176  
 DRAWN: JES  
 SCALE: 1/8"=1'-0"

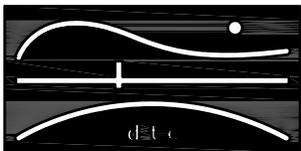
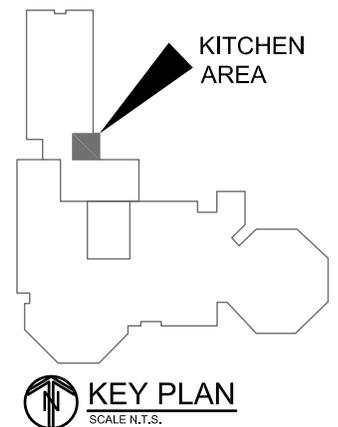
SKP-3

FILE: P:\2010\10176-Trumbull On-Call\107\plumb\0-Current\10176 Trumbull On Call Jane Ryan.dwg



**GENERAL NOTES:**

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**Automatic Grease Recovery Code Upgrades for:**

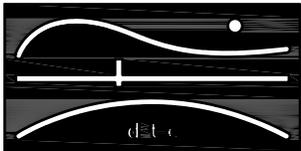
**JANE RYAN SCHOOL**

190 Park Lane  
 Trumbull, Connecticut

**FOG - Fats, Oil & Grease Removal**

ISSUE: 06-13-11  
 JOB: 10-176  
 DRAWN: JES  
 SCALE: 1/8"=1'-0"

**SKP-1**



DIVERSIFIED TECHNOLOGY CONSULTANTS  
 2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
 Ph: 203 239 4200 Fax: 203 234 7376  
 www.teamdlc.com

Automatic Grease Recovery Code Upgrades for:

# JANE RYAN SCHOOL

190 Park Lane  
 Trumbull, Connecticut

FOG - Fats, Oil & Grease Removal

ISSUE: 06-13-11  
 JOB: 10-176  
 DRAWN: JES  
 SCALE: 1/8"=1'-0"

## SKP-2

CLEARANCE REQUIRED FOR STRAINER REMOVAL.

NEW DUPLEX OUTLET BY ELECTRICAL CONTRACTOR. WIRE BACK TO PANEL.

REMOVE & DISPOSE OF EXISTING WASTE PIPING. REPIPE EXISTING WASTE FROM HAND SINK.

EXISTING HAND SINK TO REMAIN. CONNECT NEW WASTE & VENT TO EXIST.

NEW WIRING TO EXISTING ELECTRICAL PANEL. BRANCH CIRCUIT WIRING SHALL BE 2#12AWG, #12G MC CABLE. NEW 20A-1P CIRCUIT BREAKER IN NEAREST EXISTING PANEL WITH SPARE CAPACITY.

EXISTING 3-COMPARTMENT SINK TO REMAIN.

EXISTING SHUTOFF VALVE TO REMAIN - TYPICAL.

CONNECT NEW 2" WASTE TO EXISTING AT THIS POINT - TYPICAL.

**NOTE:**

1. PAINT ALL EXPOSED PIPING WITH CHROME PLATED SPRAY PAINT.

GREASE/OILS COLLECTION CONTAINER.

NEW AUTOMATIC GREASE RECOVERY UNIT.

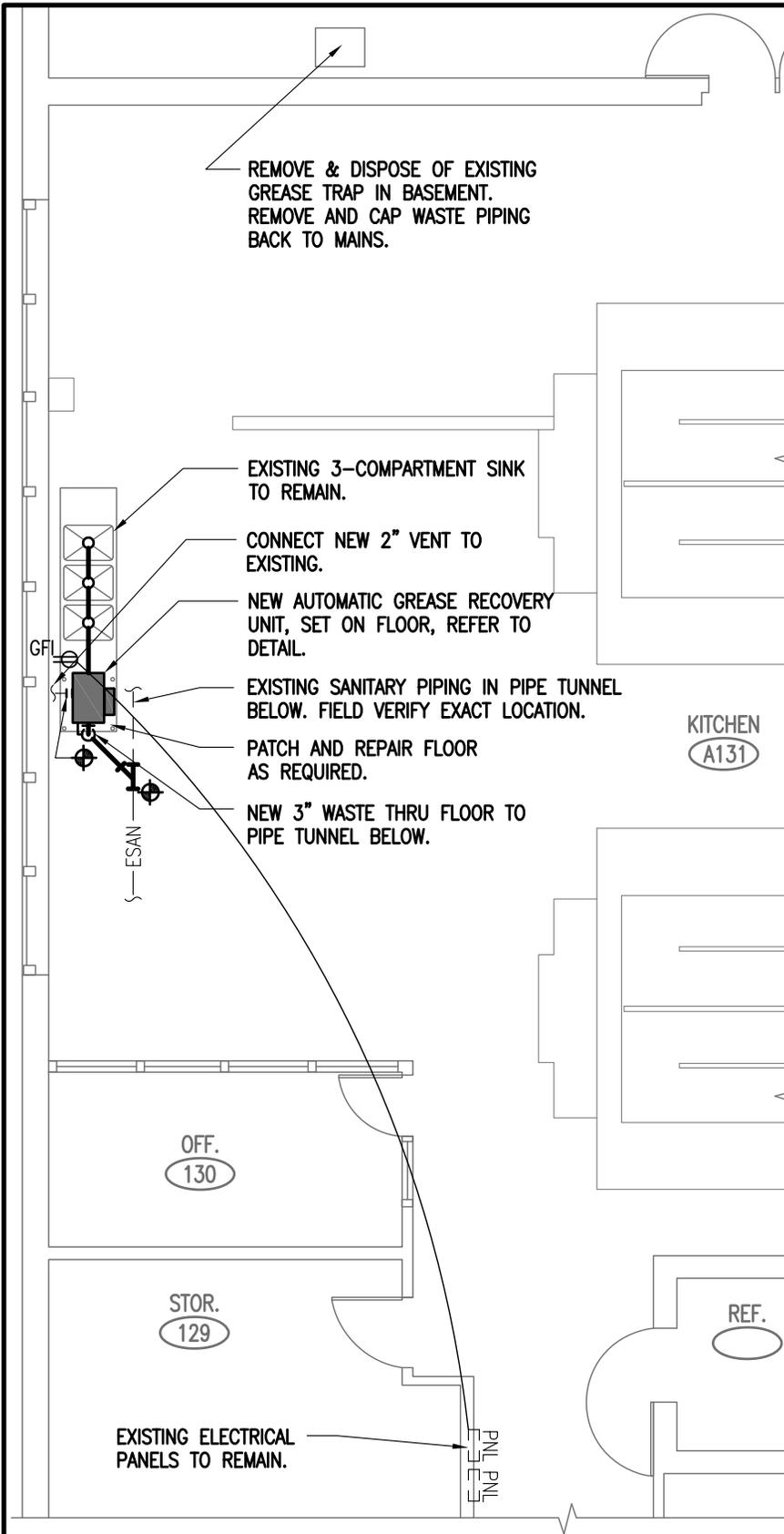
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## DETAIL OF AUTOMATIC GREASE RECOVERY UNIT

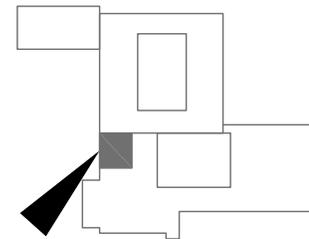
SCALE: NONE

FILE: P:\2010\10176-Trumbull On-Call\107\plumb\0-Current\10176 Trumbull On Call Madison.dwg



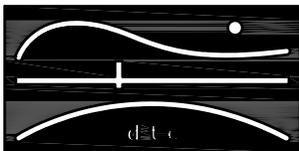
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KITCHEN AREA

**KEY PLAN**  
SCALE N.T.S.



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2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
Ph: 203 239 4200 Fax: 203 234 7376  
www.teamd|t|c.com

Automatic Grease Recovery Code Upgrades for:

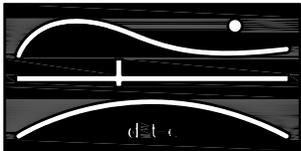
**MADISON MIDDLE SCHOOL**

**FOG - Fats, Oil & Grease Removal**

4630 Madison Avenue  
Trumbull, Connecticut

ISSUE: 06-13-11  
JOB: 10-176  
DRAWN: JES  
SCALE: 1/8"=1'-0"

**SKP-1**



DIVERSIFIED TECHNOLOGY CONSULTANTS  
 2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
 PH: 203 239 4200 Fax: 203 234 7376  
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Automatic Grease Recovery Code Upgrades for:

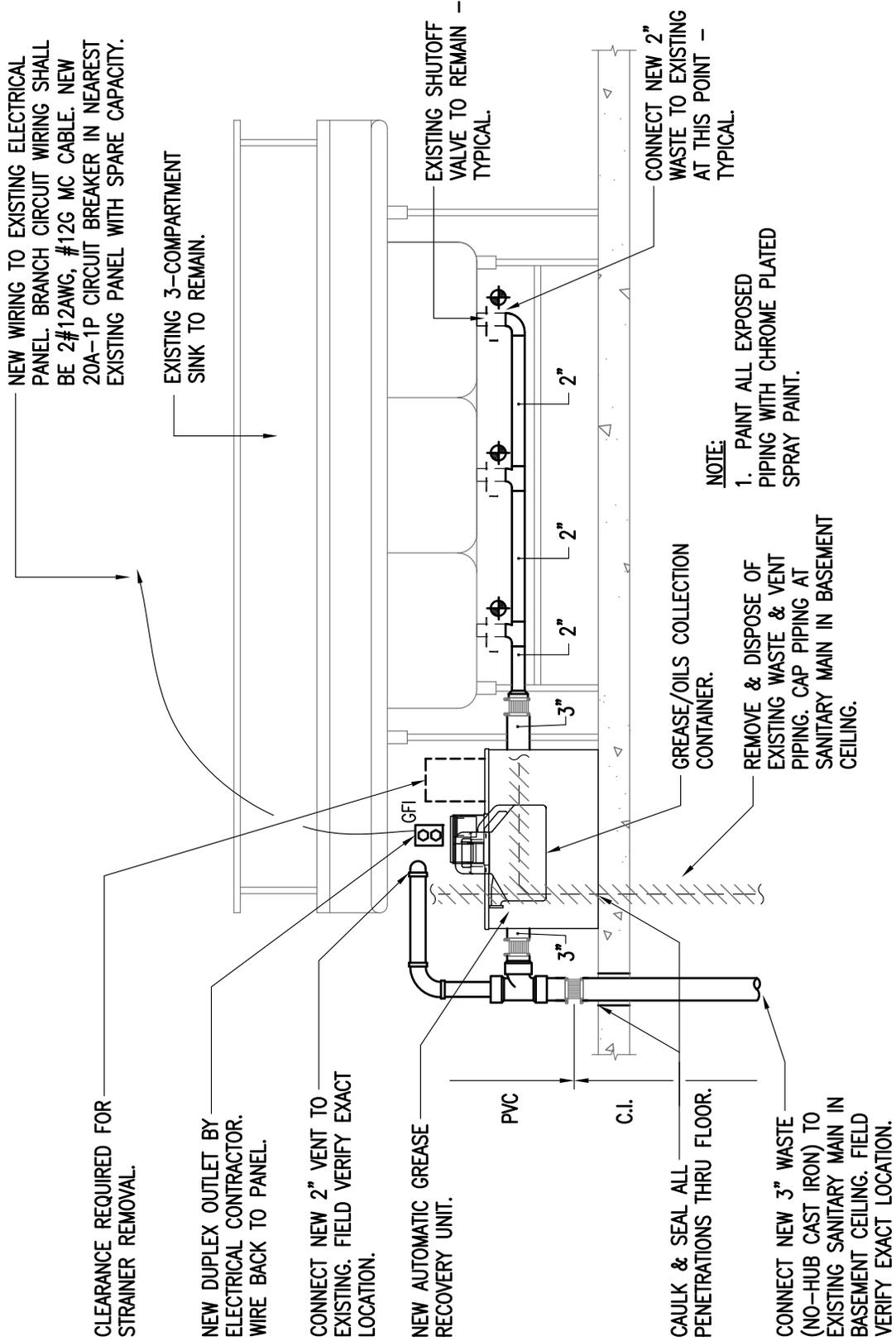
# MADISON MIDDLE SCHOOL

FOG - Fats, Oil & Grease Removal

4630 Madison Avenue  
 Trumbull, Connecticut

ISSUE: 06-13-11  
 JOB: 10-176  
 DRAWN: JES  
 SCALE: 1/8"=1'-0"

SKP-2



## DETAIL OF AUTOMATIC GREASE RECOVERY UNIT

SCALE: NONE

FILE: P:\2010\10176-Trumbull On-Call\107\plumb\0-Current\10176 Trumbull On-Call Middlebrook.dwg

EXISTING ELECTRICAL PANEL TO REMAIN.

EXISTING PREP SINK TO REMAIN.

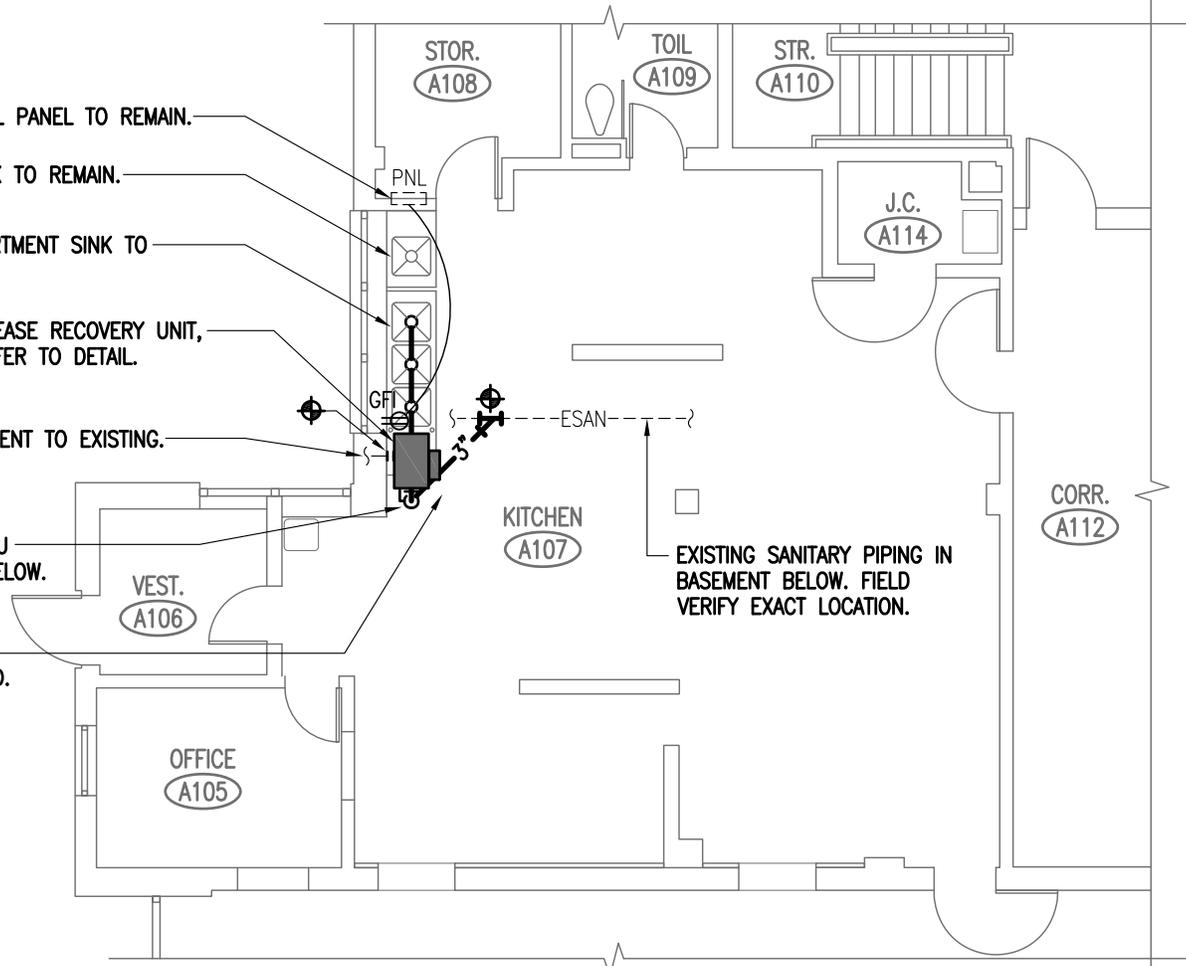
EXISTING 3-COMPARTMENT SINK TO REMAIN.

NEW AUTOMATIC GREASE RECOVERY UNIT, SET ON FLOOR, REFER TO DETAIL.

CONNECT NEW 2" VENT TO EXISTING.

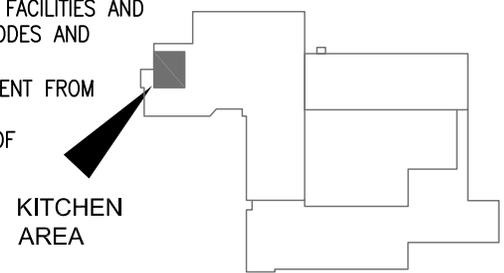
NEW 3" WASTE THRU FLOOR TO BSMT. BELOW.

PATCH AND REPAIR FLOOR AS REQUIRED.

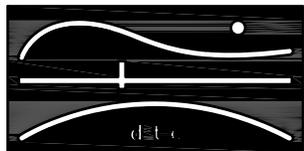


**GENERAL NOTES:**

1. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL TRADES BEFORE COMMENCING WORK.
2. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS NECESSARY TO INSTALL PLUMBING SYSTEM, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE.
3. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY & ALL DISCREPANCIES.
4. IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY PIPE, FITTING, RISE/DROP OR DETAIL. SYSTEM & COMPONENTS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
5. CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS WITH FACILITIES AND SERVICES TO MEET REQUIREMENTS INDICATED AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
6. CONTRACTOR IS RESPONSIBLE TO PROPERLY PROTECT OWNER'S PROPERTY AND EQUIPMENT FROM INJURY, AND DAMAGE TO SAME SHALL BE REPLACED BY CONTRACTOR.
7. EQUIPMENT & PIPING TO BE INSTALLED IN ACCORDANCE WITH SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELBOWS, TEES, DROPS, AND MISCELLANEOUS PIPING DUE TO ELEVATION CHANGES, OBSTRUCTIONS, COORDINATION WITH OTHER TRADES, ETC. TO INSTALL A COMPLETE, FUNCTIONING, PLUMBING SYSTEM.



**KEY PLAN**  
SCALE N.T.S.



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2321 Whitney Avenue - Hamden Center II - Hamden CT 06518  
Ph: 203 239 4200 Fax: 203 234 7376  
www.teamdlc.com

Automatic Grease Recovery Code Upgrades for:

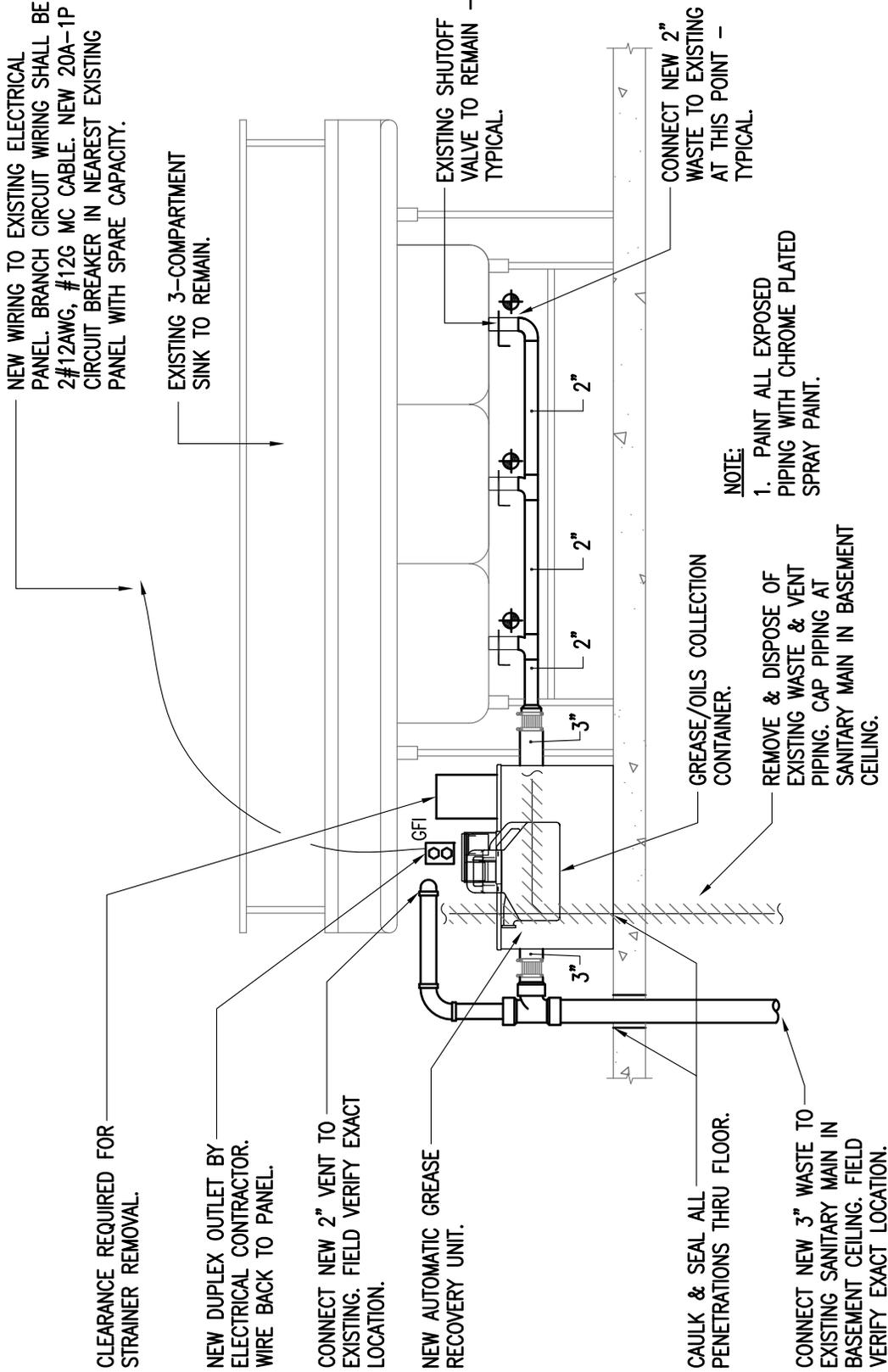
**MIDDLEBROOK  
SCHOOL**

**FOG - Fats, Oil & Grease Removal**

220 Middlebrook Avenue  
Trumbull, Connecticut

ISSUE: 06-13-11  
JOB: 10-176  
DRAWN: JES  
SCALE: 1/8"=1'-0"

**SKP-1**

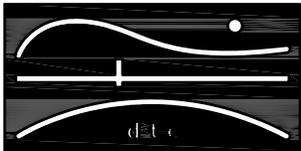


**NOTE:**

1. PAINT ALL EXPOSED PIPING WITH CHROME PLATED SPRAY PAINT.

**DETAIL OF AUTOMATIC GREASE RECOVERY UNIT**

SCALE : NONE



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**MIDDLEBROOK  
 SCHOOL**

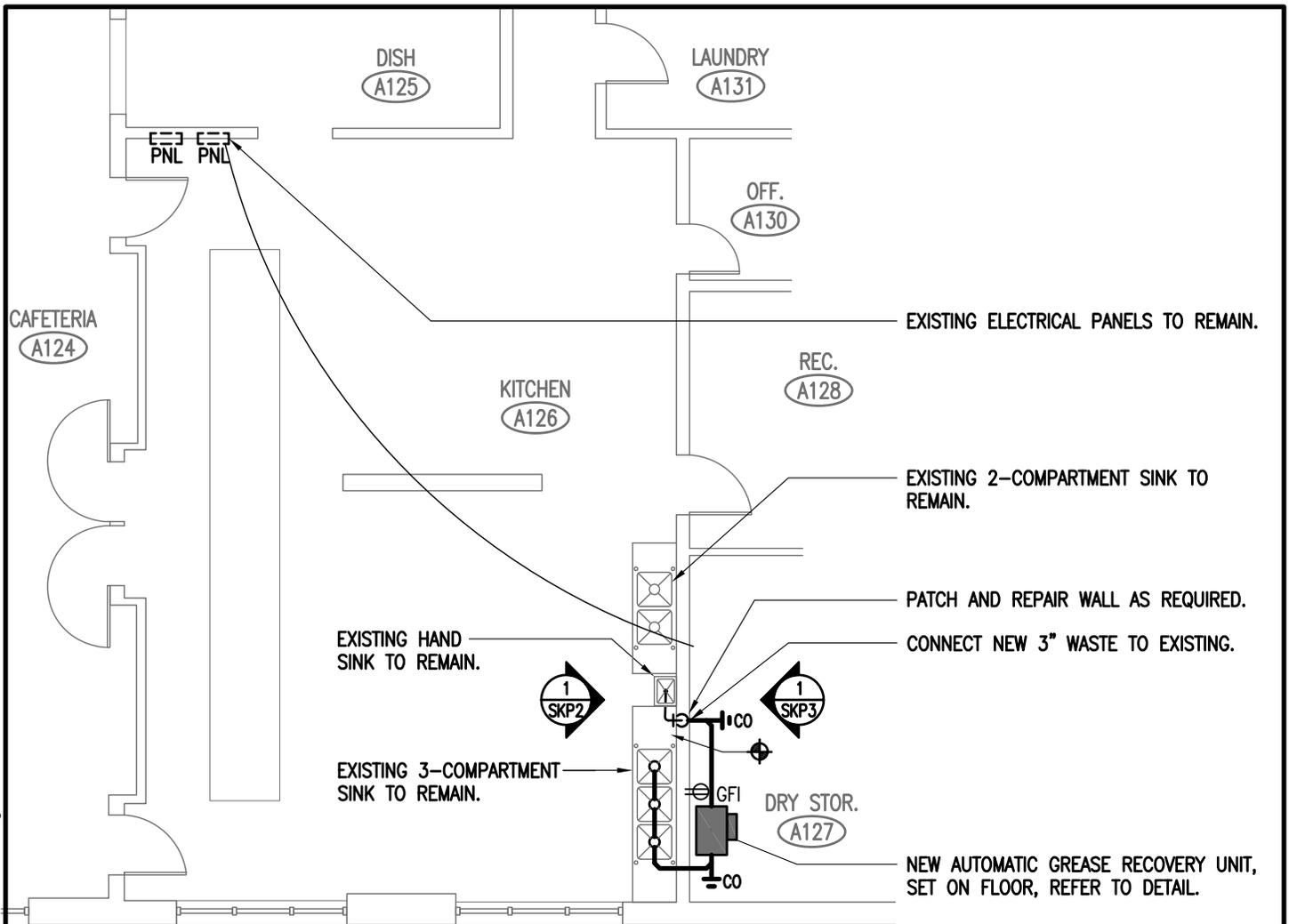
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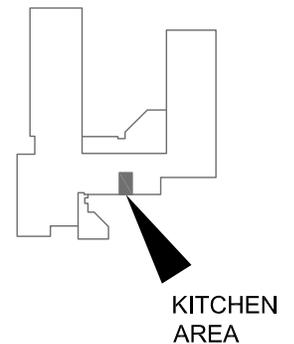
**SKP-2**

FILE: P:\2010\10176-Trumbull On-Call\107\plumb\0-Current\10176 Trumbull On Call Tashua.dwg

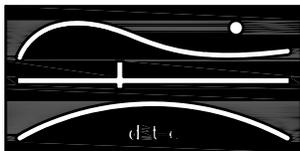


**GENERAL NOTES:**

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**KEY PLAN**  
SCALE N.T.S.



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**Automatic Grease Recovery Code Upgrades for:**

**TASHUA  
SCHOOL**

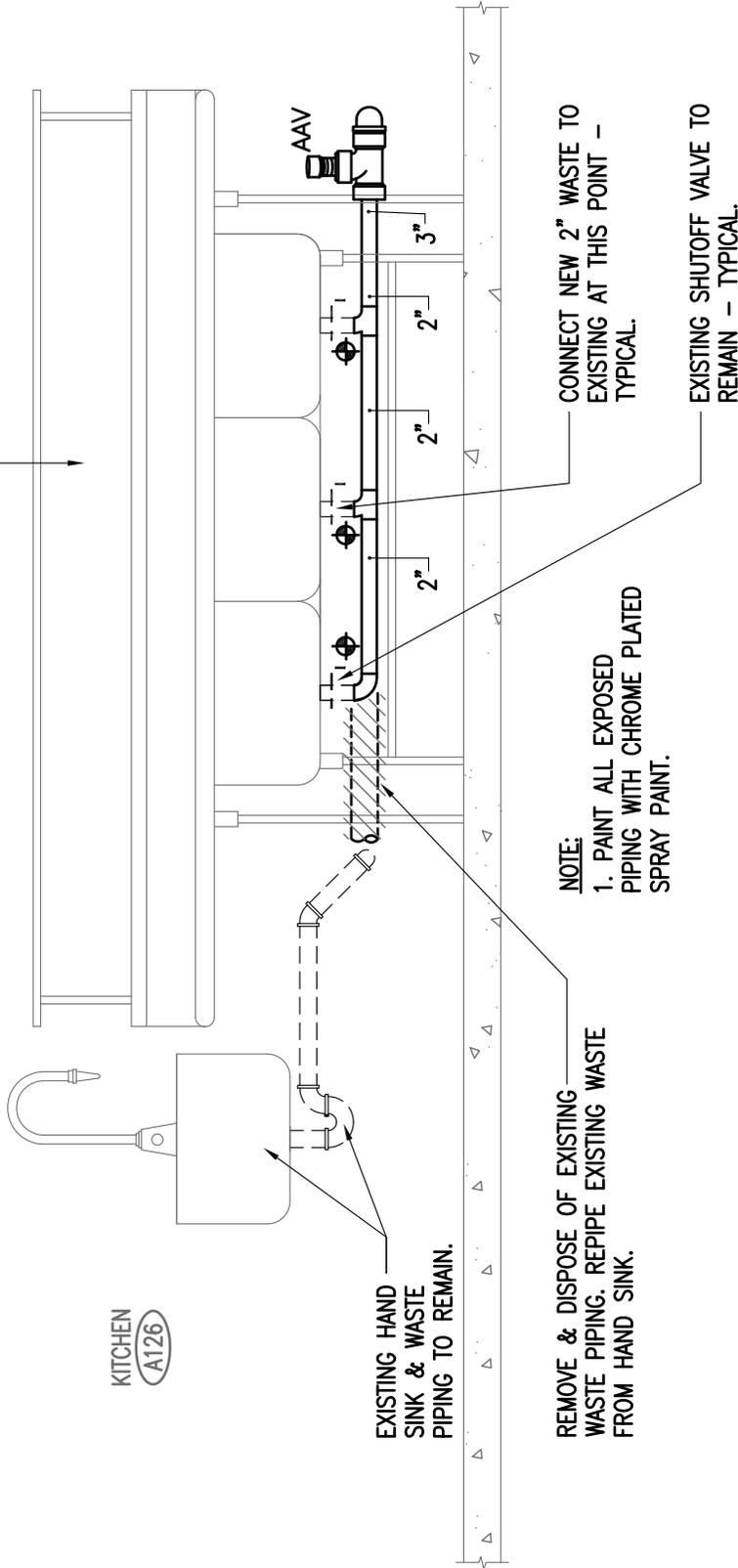
**FOG - Fats, Oil & Grease Removal**

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**SKP-1**

EXISTING 3-COMPARTMENT  
SINK TO REMAIN.



KITCHEN  
A126

EXISTING HAND  
SINK & WASTE  
PIPING TO REMAIN.

REMOVE & DISPOSE OF EXISTING  
WASTE PIPING. REPIPE EXISTING WASTE  
FROM HAND SINK.

NOTE:  
1. PAINT ALL EXPOSED  
PIPING WITH CHROME PLATED  
SPRAY PAINT.

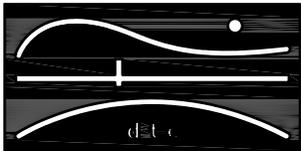
CONNECT NEW 2" WASTE TO  
EXISTING AT THIS POINT -  
TYPICAL.

EXISTING SHUTOFF VALVE TO  
REMAIN - TYPICAL.

## DETAIL OF 3-COMPARTMENT SINK PIPING

1  
SKP-2

SCALE: NONE



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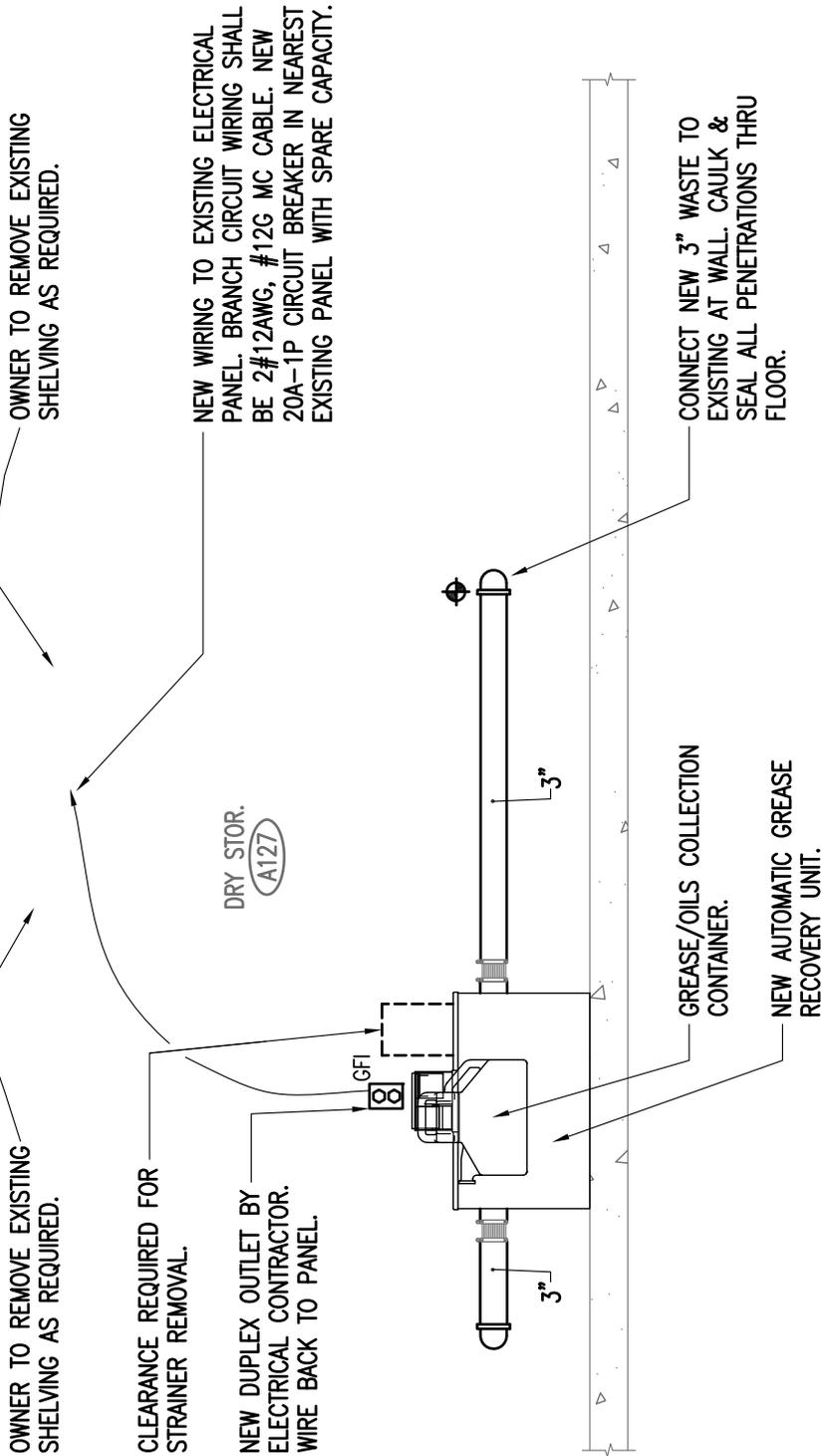
# TASHUA SCHOOL

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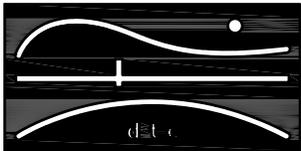
SKP-2



DETAIL OF AUTOMATIC GREASE RECOVERY UNIT

SKP-3

SCALE: NONE



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**SKP-3**