## MECHANICAL SPECIFICATIONS

- A IT IS THE MIDHT OF THESE DAMINICS AND SPECIFICATIONS TO CALL FOR FIRESED WORK, TEXTED, AND REJUST FOR SPECIFIED OFFENDING, COMPLETE IN ALL RESPECTS SHALL BE FURNISHED BY THE CONTRACTOR. SOIPE OF HVAC WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING MECHANICAL SYSTEMS: ALL SUPPLY, RETURN, AND EMAJIST DUCTWORK
- SHOP DRAIBNOS, OPERATING INSTRUCTIONS, RECORD PRINTS, REES AND PERMITS ION WITH OTHER TRADES AND THEIR WORK

ALL GRILLES RECISTERS, DIFFUSERS, FIRE DAMPERS AND OTHER APPURITEMANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM

STATUP AND ONE YEAR WARRANTY ON ALL INSTALLED SYSTEMS

BALANCING AND TESTING OF ALL SYSTEMS

LIGHTAN FUND SHORTCO OL DURA BERROL OL ELAN STOR FUND FOR YOUNG SHALL SHOW THE SHALL SHOULD CHROSTORY THE PROLOF OF THE SHALL SHALL SHOW THE SHALL SHA DRAMMAS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION TO PROVIDE COMPLETE AND PROPER INSTALLATION. all provisions of contract including general conditions and special conditions shall apply to work in all respects.

CONTRACTOR SHALL SUBMIT SHOP DRAWNES AS REQUEED IN SPECIAL CONDITIONS, WITH ALL PERTINENT DATA CLEARLY MARKED, FOR THE FOLLOWINE EQUIPMENT AND SYSTEMS:

DIFFUSEIS, RECISTERS AND DUCT ACCESSORES

- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS CAUSED BY HIS WORK IN A TIMELY MANNER DURING THE COURSE OF THE PROJECT, SO AS TO NOT INTERFERE WITH WORK OF OTHER TRACES. MUSS ORBRES BOOKIES, HIS CORRIGITOR SHALL REPOYMENT FOR ALL CITTUR ON POTENT ROUS FIRM DAMAGE, BLARTY OF STARK, PROTECT BOOK OF ORBIT ROUSE FIRM DAMAGE, BLARTY OF STARK, PROTECT BOOK OF ORBIT ROUSE FIRM DAMAGE, BLARTY OF STARK, PROTECT BOOK OF ORBIT ROUSE HIS CORRIGINATION OF STARK, PROTECT BOOK O
- CONTRACTOR SHALL PROMDE NOT LESS THAN THREE (3) SETS OF BOUND OPENATING AND MANTENANCE INSTRUCTION MANUALS AND "AS BUILT" PRINTS UPON COMPLETING THE WORK. Ontractor shall assire that others representatives are properly instructed in the servicing and maintenance of the equipment instruced under this contract. HTRE WORK HIS BEST CAMPLESS, AND PROREST THAN ALL ACCOPTANCE TESTS, COMPACTORS WAS ARRANGED FOR ANY EXPLANATION AND THE MANAGEMENT AND THE ASSESSMENT ASSESSMENT AND THE ASSESSMENT ASSESSMENT AND THE ASSESSMENT ASSES
- ANY DETECT OF WORKLAWSHP DEVELOPED DURING THE GUARANTEE PERIOD, AND ANY DETECTIVE MATERIAL REPLACED, SHALL BE DONE SO AT NO ADDITIONAL COST TO THE OWNER. ALL SUCH REPAIRS AND/OR REPLACEMENT SHALL BE MADE WITHOUT DELAY AND AT THE CONNENEDCE OF THE OWNER. WHERE DETECTS IN THIS CONTRACTION'S WERK CAUSES DAMAGE TO WORK OF OTHERS, ALL SICH DAMAGE SHALL BE RESTORED TO ITS CRICINAL CONDITION AT HIS ADDITIONAL COST TO OWNER. CHITACTOR SHAL INCONTIONALY CAMANTEE IN WOTHING ALL
  MICHAL, ECREBERT, AND WIGHDMANTEE IN ACCOUNTEE FOR A FEBRO
  O CAE TEAM FROM THE DATE OF SUBSTAINTAL COMPLETION OF THE
  PROJECT, AS DETERMEND BY ISSUANCE OF CHITACASTE OF SUBSTAINTAL
  COMPLETION BY THE ARCHITECT.
- AIR CUTLETS AND INLETS CELING DIFFUSERS (CD) SHALL BE AS ON DRAIBNOS.
  PROVIDE FACTORY WHITE ENAMEL FINISH.
- PROVIDE HUBE EXHAUST FANS WITH CAPACITIES AS SCHEDULED.

SHALL BE AMCA RATED AND UL LABELED.

AL FASTBURGS, SUPPORTS, CLAMPS, MICHORS, ST.C., SHALL BE N. ACCHOLANCE WITH HAMPACHERS'S STANDARDIATION SOCIET (MSS) SPECIFICATION 97—58, 97—48, MOD 97—50 AUSS B.
PROME ALL SUPPLIBEDITARY STEEL REQUIRED FOR INSTITULATION OF HAMPACHS AND SUPPORTS.

DENTRY ALL EQUIPMENT, DUCTS, AND PPE WITH PRE-PRINTED PLASTIC NAME PLATES OR STENCILED LETTERING.

- PROVIDE PLASTIC LIAMINATE TAGS ON ALL CONTROL PANELS, CONTROLLERS, VALVES AND EQUIPMENT CASHOS. CMITACTOR SHALL PEPODE BALAWAY, ADJISTING, AND PERFORMANCE TESTING OF ENTIRE SYSTEM PROCEDURES AND REPORTING FORMS SHALL BE SMILLAR TO THOSE OF THE NATIONAL ENVIRONMENTAL BALANCING BUREAU.
- DITTIE METALLATON MICLIANE MITTERLES, COMPRETE AND INFORMATIONS OF SHARP COMPRETE AND PROJECTIONS OF COMPRETE AND PROJECTIONS OF COMPRETE AND PROJECTIONS OF COMPRETE AND PROJECTIONS OF COMPRETE AND PROJECTION OF THE CLASS OF MICHOLOGICAL AND PROJECTION OF THE MICHOLOGICAL AND PROJECTION OF THE CLASS OF MICHOLOGICAL AND PROJECTION OF THE CLASS OF MICHOLOGICAL AND PROJECTION OF THE PR REVEN WITH THE ARCHITECT AND OWNERT'S REPRESENTATIVE THE LOCATION OF ALL EXCHANGES AND MAJERUALS SO THAT ALL WORK MAY BE RESTALLED IN THE MEST ORDER LAWARES AND SO THAN TREMPERSOUS BETWEEN PRES, DUCTE, COMUNIS, EQUIPMENT AND ARCHITECTURAL AND STRUCTURAL FEATURES ARE ANGIOED. ALL EQUIPMENT SHALL BEAR UNDERWITTERS' LABORATORIES INC. LABELS.
- THE CONTRACTOR MUST HAVE A SITE VISTATION AND BE ANIME OF ALL WORKING CONDITIONS. PRIOR TO PRESENTING A QUOTATION. HACH SHALL BE INSTALLED IN STRUCT ACCORDANCE WITH COMPACTIONS FOR THE AND CAPACITY OF EACH PRICE OF EXAMPLACTURES HE COMPACTION STRUCTURES WHICH SHALL BE CONCORDED PART OF THESE SPECIFICATIONS. VERHY ALL SITE CONDITIONS PRIOR TO BECOMMING CONSTRUCTION.
- DUTTION SHALL IS CONSTRUCTED IN ACCORDANCE WITH SHACKN STANDANGS FOR CONSTRUCTION OF THE CONSTRUCTION OF T
- ALL DUCTIONS IS TO BE CONSTRUCTED IN ACCORDANCE WITH SMACHA "HVAC DUCT CONSTRUCTION STANDARDS", LATEST EDITION. ALL SUPPLY, RETURN, AND FRESH AR DUCTWORK SHALL HAVE EXTERNAL INSILATION, ONE AND ONE-HAUF (1-1/2) MOJES THUX FREEKLASS WITH REDIFFORCED FULL VAPOR BARRER. supply, return and edialist ductions; shall be rigid galvanzed Steel
- all Joints and Sears are to be Seald), Redibble ducts are permited in Length noto to diceed 8'—0". SQUARE ELBONS SHALL HAVE SINGLE THICONESS TURNING VANES AND BE CONSTRUCTED IN ACCORDANCE WITH SLACKA STANDARDS. all ductions to of galvanized sheet metal using smacka's 20° pressure construction standards, seal class B. RANSTIONS SHALL HAVE A SLOPE OF 1" IN 7" WHEREVER POSSIBLE.
- ALL BRANCH TAKE-OFTS FROM TRUNK DUCTIONSK SHALL BE MADE WITH 45 DEGREE COMMECTOR AND BALANCING DAMPER OR ROUND GASIGTED SYN-IN COLLARS WITH INTEGRAL BALANCING DAMPER. H DAWFERS SHALL BE ADJUSTABLE WITH AN APPROVED QUADRANT OR TURE DAWFER BELOW OF WAY BE SWALE BLADE TYPE. 10" WOTH TONE SHALL BE OPPOSED BLADE TYPE. SPLITTER DAWFERS ARE NOT TEN.
- THE CLARES SAIL IN TISTO AND PAYADED BY INCOMEDIES.

  LORONIDOSES AND SHAIR IN SOLUCIONE CONSTRUCTION SHAIR

  LORONIDOSE AND SHAIR IN SOLUCIONE TO SHAIR INFORMATION THE THE ADMITT SHAIR INFORMATION SHAIR IN FORT MANAGEMENT SHAIR

  BUILTIN MOST REPLANDAL PROMET ADDITION SHOOT AND THE AND T
- SHOP DRAWNES SHOP DRAWNES SHALL BE SUBMITTED FOR APPROVAL TO ARCHITECT FOR DUCTHORN AT 3/8"=1"-0" SCALE. DRAWNES SHALL BE FULLING COORDINATED WITH EXISTING CONDITIONS.

ELECTRICAL WORK RELATED TO HVAC AND PLUMBING

PROVIDE MOTORS AND MOTOR STARTERS REQUIRED FOR EQUIPMENT AND CONTROLS SPECIFIED UNDER THESE SPECIFICATIONS.

IT IS HEREBY UNDERSTOOD AND AGREED THAT ACCEPTANCE OF THE CONTRACT INCLUDES ACCEPTANCE OF THE ABOVE GUARANTEES.

RETURN REGISTERS (RR) SHALL BE SAME AS SPECIFED ON DRAIBNOS. PROVIDE FACTORY WHITE ENAMEL FINISH.

NUME DHAUST FAIS

1. MANUFACTURER: GREDNECK, PEW VEHTLATOR, PANSONC

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POMER WHANG TO FEED INSTITUED DEPARTS SAVIL DE DIF ELECTRICAL CONTRIGATION, CONTRIGATION, CONTRIGATION, CONTRIGATION, ALL CONTRIGATION, ALL CONTRIGATION, ALL CONTRIGATION, AND ADMICT DEPARTMENT AND THE ELECTRICAL STATEMENT AND THE ELECTRICAL STATEM MOTORS SHALL BE NEMA DESIGN AND TESTED IN ACCORDANCE WITH ANS/REE 112 AND ANS/REE 114.

ALL EQUIPATI AND SCRIBS SALL RE SIPPORED FROM BILLIONS SIEL.
STRICTURAL SCREW IA A MARKET DI MARIZE SIECES ON HAVE BOOKS
FILLINGS, CORINS, ETC. DO HOT SAPPORT PRIPE, DUCTROOK, EQUIPADIT,
ETC., FRAM OTHER PRINS, DUCTROOK, EQUIPADIT, ETC. PERCONATD STEE
STRAPS AND FORER ACTUATED STOKE ARE PROVIDENTED.

ALL PARTS EXPOSED TO WEATHER SHALL BE CONSTRUCTED OF ALL HEAVY GAUGE ALLIMINUM. EXTERNAL FASTENERS SHALL BE STANLESS STEEL

- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS, OCCURANCES, RALES AND REGULATIONS APPLICABLE TO THE WORK SHOWN OR SPECIFED, AND WITH THE RILLES OF OWNER, THE ARCHITECT, OSM, NATIONAL
- ODE, LOOK, MINNSTES, AM, AND THE LOOK, REPARTMENT OF HEALTH, MAY CHAMES RECESSARY IN DOEST THAT THE WIPK CHAPTY THAT SIZE HAURS, THE PROPERTIES MISCOLORUM, THE MATURE METERSALE CORE FROM DESCRIPTION SHALL BE MADE BY THE TRADE. ADMINISTRATION HE APPROPRIA OF THE APPROPRIATE OF THE APPROPRIAT WHERE APPLICABLE, ALL EQUIPMENT SHALL CARRY THE LABEL OF THE UNDERWRITENS LABORATORES, INC.
- PROME ALL HEXESSARY TRAPS, WHITE SUPPLES, LODGE REY STIPS, REDUCERS, ESTADERIOS, EST. AS RECURRED, ALL TRAPS, EPHAS, SAPILES, EST., THAT ARE EXPONED TO MEN, OR IN CHEMICAL, SHALL BE GROWE-PLATED. SUPPLES MAY BE RINGO OR FLORIBLE. PROMOE PLANSHING PATURES AND ALL RELATED ITEMS AS NONCATED ON THE PLANS AND THE PLANSHING FORTURES SCHEDULE, ON AS OTHERWISE REQUIRED FOR A COMPLIED FOREVATING SYSTEM IN ACCORDINANCE WITH THE LATEST LOCAL PLANSHING CODE.
- PRY, REALING SHUL RE EXML, TO MEDIS-COMMING REEDLACS THE CAS/TS2-1 FEXTY DUTY REALIZANIS WITH CASH WATER REPORT REPOLALS MACET, TITMES SHUL RE COMED WITH UNITIES RESHIF REPOLALS REALIZANI WATER DUTY REPORT THE COMED REAL TO ZETION, LEVER WATER DIALIZANI WATER DUTY REPORT TO THE COMED REAL TO ZETION, LEVER WATER DIALIZANI REALIZANI DIALIZANI REPORT REPORT TO THE COMED REALIZANI PROVIDED REAL SUPPLES AND SANTARY DRAINASE FITTINGS BELOW HANDICAPPED ACCESSIBLE LAVATORES SHALL BE INSULATED WITH "HANDI-LAY-GUARD" INSULATION RIT.
- WATER HAMMER ARRESTORS: ALL SHITGET WAVES (UP TO 2" SIZE) SHALL BE BALL THEE, FALL PORT, THREE-PECE CONSTRUCTION, FABRICATED OF CAST BRONZE BOOV, BRONZE BALL, WITH TETLON SZAL AND PACKINA, MBCO §5-595 OR 1-595 AS REQUIRED.
- MO-HAB CAST RON PPE CLEMOUTS SHALL BE NO-HAB CLEMOUT PLUG OR EXTRA HEAVY BRASS SOREW PLUG IN THYPED CAST RON FITINGS, WITH SOLID HEXAGONAL NUT OR COUNTERSUM: PLUG TO SAIT. ETERN CLEMATIS TO MULE AND FLOORS MIN LONG SIEDE BLOWS OR "Y AND 1/D REDUS MIN HOUSE AND FLOOR DEZE MULES TO COMPRION TO AN THE CHARMACS, USE STAMLESS STEEL MUL FALLES AND FLOOR FALLES OF MORE PROVIDE. CAST RON PPE CLEMOUTS SHALL BE TAPPED, EXTRA HEAVY CAST RON FERRALE CALLAED INTO CAST RON FITTINGS AND EXTRA HEAVY LEAD SEAL PLUG WITH SOLID HEXACONAL MUT OR COUNTERSIAN; PLUG TO SAIT

- PLUMBING SPECIFICATIONS
- N ALL OHER MEAS: SERVICE WEIGHT CAST IRON PPE: WITH HAB AND SPROT JUNIS JUNED WITH LEAD AND OMOJN FOR PPING 2-1/2" AND LARGER OR PA'C OR NO-HAB CAST RON WHERE PERMITTED BY CODE. THE "L" COPPER TUBING WITH "DWY" FITTINGS ASSEMBLED WITH "NO LEAD" SOLDER FOR PIPING 2" AND SMALLER, PVC MY BE USED IF ACCEPTABLE BY LOCAL AUTHORITIES.
- NOMATION OF REMAINS LOCATIONS OF DISTING EMPIRIT, CORDIT, ETT., MERC CONSULD FROM SHIT, ARE INCORPANDS. EACH TRUE COMPACITO SHIL, REDNIC EDIANS RESEARCH TO LOCATE SCH HORSE) HARTS MARKS COMPECTIONS ON ON ETTERSIANS OF THE REF MAY DESIGNE SYSTEMS AS RECEMBER! TO COMPLETE THE WORK METERSON WHICH MOTIFIAND, COST TO THE OMBER.
- C. EACH TRUSE CONTRACTOR SHALL EXAMPLE ALL DIALMINGS AND SECREPLANDAS.

  RELAMBED TO THE WORK OF ALL PARKES AND SECREME FRALL REPORTED AS TO THE EXAMPLE FOR THE WORK AND STREAM FRANCES.

  D. DRIMMENS AND EXAMPLANCES, SALL SALL AND RECOVET THE COREMAL APPRACEMENT OF SCRIEGE AND SECREME AND SECREMENTS.

- DOJESTIC HOT AND COLD WATER, HAND DRAWN THE "L" COPPER TUBNIC WITH WIGHOUT COPPER FITTINGS ASSEMBLED WITH "NO LEAD" SOLDER BEYORE SUBMITING A PROPOSAL, EACH TRADE CONTRACTOR SHALL NST THE STEEL OF THE WORK AND THROUGHLY FAMILAGES HEAST, WITH ALL CONDITIONS AFFICIENT THE MICHAEL THROUGH THE TRADE CONTRACTOR ON ACCOUNT OF EXTRA WORK MADE RECESSARY BY FALLINE TO DO SO. IN SIE/DOCUMENT REVIEW
- SOL, MISTE AND HEIT PRING.

  1. BELOW SLAD OR GRADE. EDITA, HEAVY MEDIT CAST ROM WITH HAB AND SPOT, JUNIS, JUNEDE WITH LED, AND GMAILL PIC MAY SE (ISED F ACCEPTABLE BY LOCAL MUTHORITIES.

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2006

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SPECIFICATIONS MECHANICAL & PLUMBING HOWARD J. MARESCH, JR. - ARCHITECT ARCHITECTURE SPACE PLANNING INTERIOR DESIGN

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