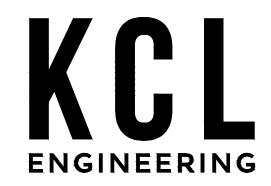
IOWA CAPITOL COMPLEX

M2 MECHANICAL IMPROVEMENTS

JUNE 2, 2017



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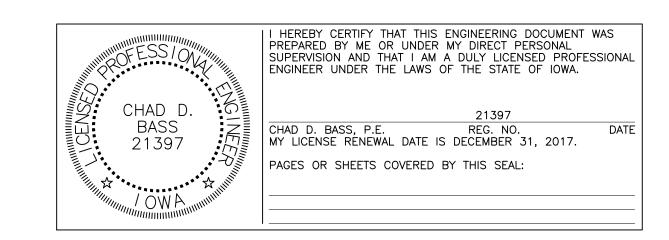
CONSTRUCTION MANAGER

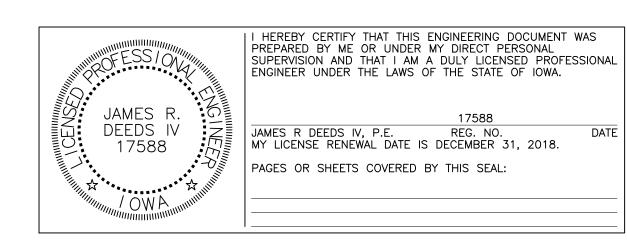
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DRAWING INDEX

M0 GENERAL NOTES M1 TUNNEL PLAN





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Date: 6/2/2017

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COMPLEX M2 IMPROVEMENTS

CAPITOL COMPLEX

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GENERAL NOTES

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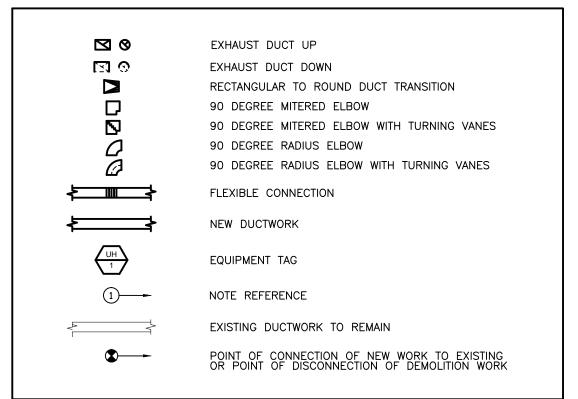
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MECHANICAL SYMBOLS



NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT.

HVAC GENERAL NOTES

MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE EXHAUST SYSTEM, INCLUDING EXHAUST DUCTWORK, MECHANICAL EQUIPMENT, SUPPORTS, HANGERS AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.

DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR—HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE BY ENGINEER PRIOR TO DUCT FABRICATION.

ALL DUCT DIMENSIONS LISTED ARE INTERIOR FREE AREA DUCT DIMENSIONS AND DO NOT INCLUDE INSULATION REQUIREMENTS.

MECHANICAL GENERAL NOTES

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH—IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

INCORPORATE INTO INSTALLATION MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.

ON COMPLETION OF THE INSTALLATION, MECHANICAL CONTRACTOR SHALL COOPERATE WITH THE OWNER TO PROVIDE ANY NECESSARY ADJUSTING AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL PROVIDE ALL FACILITIES AND EQUIPMENT, AND MAKE ALL TESTS, REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF ANY PIECE OF EQUIPMENT.

MECHANICAL WARRANTY NOTES

MECHANICAL CONTRACTOR SHALL WARRANT ALL EQUIPMENT AND INSTALLATION FOR A MINIMUM OF 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNERS REPRESENTATIVE. WARRANTY WILL NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM ACCIDENT OR IMPROPER OPERATION OF CARE ON THE PART OF THE OWNER, AND NOT DUE TO DEFECTIVE MATERIAL OR INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

MECHANICAL DEMOLITION NOTES

MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING MECHANICAL SYSTEMS WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC., SHOWN TO BE REMOVED ON PLANS SHALL BE DISPOSED OF UNLESS NOTED OTHERWISE. DISPOSAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

EQUIPMENT AND/OR MATERIALS SCHEDULED FOR ABANDONMENT AND REMOVAL ARE TO BECOME CONTRACTOR'S SALVAGE AND SHALL BE HAULED AWAY FROM THE SITE PROMPTLY.

REMOVE ALL ABANDONED PIPING AND DUCTWORK AND ASSOCIATED SUPPORTS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIR OR REPLACEMENT OF EQUIPMENT FOUND TO BE DAMAGED OR NON-FUNCTIONAL DUE TO CONSTRUCTION PROCESS AFTER SUBSTANTIAL COMPLETION.

MECHANICAL PATCHING NOTES

CONSTRUCTION TO MATCH ORIGINAL FINISHES.

CONTRACTOR SHALL PROTECT AND REPAIR EXISTING TUNNEL FINISHES FROM WORK PERFORMED. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT OCCURS DURING

ABSOR ABSORPTION EQUIP EQUIPMENT LEAVING DRY BULB TEMPERATURE EXTERNAL STATIC PRESSURE LEAVING WATER TEMPERATURE AIR CONDITIONING UNIT ACCESS DOOR OR AREA DRAIN ENTERING WET BULB TEMPERATURE LWBT LEAVING WET BULB TEMPERATURE ABOVE FINISHED FLOOR ELECTRIC WATER COOLER MOP BASIN EWT ENTERING WATER TEMPERATURE ABOVE FINISHED GRADE MBH 1000 BTUH EX EXISTING AIR HANDLING UNIT MECHANICAL CONTRACTOR MECHANICAL AIR VENT EXH EXHAUST MECH BOTTOM EXPANSION MANHOLE FRESH AIR INTAKE NOT TO SCALE BTU PER HOUR FCU FAN COIL UNIT OUTSIDE AIR FLOOR DRAIN OVERFLOW ROOF DRAIN POUNDS PER SQUARE INCH CATCH BASIN FLEX FLEXIBLE POWER ROOF VENTILATOR CENTRIFUGAL FLR FLOOR CUBIC FEET PER MINUTE PRESSURE REDUCING VALVE FEET PER MINUTE CAST IRON PRESSURE VENT FEET PER SECOND CENTER LINE PVC POLYVINYL CHLORIDE FLOOR SINK CONDENSATE RETURN AIR COND FINTUBE CLEAN OUT ROOF DRAIN FTG FOOTING CONC CONCRETE RELATIVE HUMIDITY GAGE CONTR CONTRACTOR ROOF TOP UNIT GALLON CONDENSATE PUMP RELIEF VALVE GALVANIZED COPPER GENERAL CONTRACTOR CABINET UNIT HEATER SUPPLY AIR GALLONS PER HOUR CIRCULATING WATER PUMP SHOWER GALLONS PER MINUTE DIRECT DIGITAL CONTROLS STATIC PRESSURE WALL HYDRANT TCC TEMPERATURE CONTROL CONTRACTOR DOWN HOUR DRAIN TYPICAL HEATING UNDER CUT DOWNSPOUT HOSE BIBB EXHAUST AIR UNIT HEATER INTERNAL STATIC PRESSURE ENTERING AIR TEMPERATURE URINAL JANITOR RECEPTOR ELECTRICAL CONTRACTOR UNIT VENTILATOR LAV LAVATORY ENTERING DRY BULB TEMPERATURE VTR VENT THROUGH ROOF EXHAUST FAN WATER CLOSET EXPANSION JOINT WATER HEATER

MECHANICAL ABBREVIATIONS



TEMPERATURE SENSOR (AVERAGING) NORMALLY OPEN (POWERED CLOSED) NORMALLY CLOSED (POWERED OPEN) TEMPERATURE SENSOR AS INDICATED NORMALLY CLOSED NORMALLY OPEN ANALOG INPUT ANALOG OUTPUT DIGITAL INPUT

DIGITAL OUTPUT

ADJUSTABLE

REMOVE AND REINSTALL EXISTING
CEILING TILES IN LOWER LEVEL
CORRIDOR AS NEEDED FOR INSTALLATION
OF NEW FAN MOTOR CIRCUITS. DEVELOPMENT BID PACKAGE #2: BID PACKAGE #2:

APPROX. 210 FEET

APPROX. 80 FEET

BID PACKAGE #1: REPLACE LEAKING SEAL ON EXISTING FIRE PUMP AT THIS LOCATION IN TUNNEL

BELOW CAPITOL BUILDING. EXISTING
PUMP IS A FAIRBANKS FIRE PUMP WITH

SERIAL #K4G1-026349. REPLACE SEAL AND PROVIDE THE FOLLOWING ITEMS: CASE GASKET (1) GLAND HALVES (4)

GLAND STUDS (4)

LANTERN RING HALVES (4)

HEX NUTS (4)

INSTALL LOUVER IN BLOCK WALL PER MANUFACTURER'S RECOMMENDATIONS

INTAKE LOUVER -

REMOVE/REPLACE CONDENSATE RETURN PIPING AS REQUIRED FOR REMOVAL OF EXISTING LOUVER AND INSTALLATION OF NEW LOUVER HERE. COORDINATE PIPING ISOLATION, REQUIRED
DRAIN DOWN, ETC. WITH OWNER
PRIOR TO BEGINNING WORK. REMOVE/REPLACE STEAM PIPING AS REQUIRED FOR REMOVAL OF EXISTING LOUVER AND
INSTALLATION OF NEW LOUVER HERE. COORDINATE PIPING ISOLATION, REQUIRED DRAIN DOWN, ETC. WITH OWNER PRIOR TO BEGINNING WORK.

TUNNEL

- EXISTING CHILLED WATER MAIN TO

REMAIN IN PLACE.

- EXISTING CW MAIN TO REMAIN IN

B GRIMES TUNNEL LOUVER - DETAILS

BID PACKAGE #1:
REPLACE EXISTING FIRE PUMP
CONTROLLER AT THIS LOCATION IN
TUNNEL BELOW CAPITOL BUILDING.
NEW CONTROLLER SHALL BE SOFT
START TYPE EATON CUTLER HAMMER

MODEL# FT90-40D-L1 (480V/3ø) OR ENGINEER PRE-APPROVED EQUIVALENT.

TUNNEL

TRANSITION DUCTWORK SHALL BE GALVANIZED 16 GAUGE (NEGATIVE 2" W.G. PRESSURE CLASS, SEAL CLASS "B", SMACNA LEAKAGE CLASS FOR RECTANGULAR OF 12)
INSTALLED PER SMACNA REQUIREMENTS.

FIELD VERIFY ALL MFR
REQUIRED CLEARANCES ARE
PROVIDED AROUND NEW FAN
IN EXISTING PIT PRIOR TO
ORDERING.

- DUCT TRANSITION FROM LOUVER TO FLEXIBLE DUCT

CONNECTION.
FIELD VERIFY EXACT
REQUIREMENTS.

DISCHARGE

EXHAUST

EXISTING PANEL 'RM' LOCATED IN LOWER LEVEL MECHANICAL ROOM

(SQUARE D NH1B)

KEYED NOTES

GENERAL NOTES

(1) REMOVE EXISTING EXHAUST FAN LOCATED IN PIT AND ALL APPURTENANCES INCLUDING TRANSITION SHROUD EXTENDING TO EXISTING LOUVER IN THE TUNNEL. REMOVE EXISTING INTAKE LOUVER FOR EXHAUST FAN LOCATED IN TUNNEL. PREPARE OPENING FOR NEW LOUVER. THIS WORK SHALL BE PROVIDED AS PART OF BID PACKAGE #2.

FIELD VERIFY ALL EXISTING LOUVER OPENING DIMENSIONS PRIOR TO ORDERING.

ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

MODIFICATIONS WILL BE REQUIRED FOR FLANGES TO BE CUT IN.

MATCH EXISTING INSULATION THICKNESS AND TYPE.

REMOVE EXISTING ELECTRICAL DISCONNECT SWITCH AND MOTOR STARTER. INSTALL NEW 30A/3P NEMA 3R NON-FUSED DISCONNECT SWITCH IN PIT AND VFD IN TUNNEL.

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO

ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY

COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE

COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING

CONTROLLERS, TRANSFORMERS, AND OTHER COMPONENTS. INSTALL ALL EQUIPMENT PER MFR RECOMMENDATIONS.

SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND

DIAGRAMS ARE SCHEMATIC. PROVIDE ADDITIONAL CONTROL POINTS/WIRING WHERE REQUIRED TO MEET

INCLUDE IN BID ALL NECESSARY PIPE MODIFICATIONS TO INSTALL LOUVERS, INCLUDING REINSULATING PIPING.

EF-3 (GRIMES BUILDING) TO BE INSTALLED DURING SUMMER (OFF-SEASON FOR STEAM SYSTEM) AS PIPING

PROVIDE A COMPLETE MECHANICAL EXHAUST SYSTEM INCLUDING SENSORS, RELAYS, WIRING, CONDUIT,

- (3) CONNECT TO NEW 20A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD USING #8 CONDUCTORS IN 3/4' CONDUIT. REMOVE ABANDONED BREAKERS TO MAKE SPACE FOR NEW BREAKERS.
- (4) CONNECT TO NEW 15A/3P CIRCUIT BREAKER IN EXISTING PANEL 'RM' USING #10 CONDUCTORS IN 3/4' CONDUIT. REMOVE ABANDONED BREAKERS TO MAKE SPACE FOR NEW BREAKERS.
- (5) PROVIDE NEW CONDUIT AND EXTEND CONTROL WIRING FROM THE IWD EAST BUILDING BASEMENT
- MECHANICAL ROOM TO NEW EXHAUST FAN IN TUNNEL. (ALT. #1 ONLY) 6 PROVIDE NEW DDC CONTROL PANEL FOR EF-3 CONTROLS. CONNECT TO EXISTING SPARE 20A/1P CIRCUIT

PIPING REMOVAL REQUIRED TO

ACCOMODATE INSTALLATION OF

120/208V-3ø, 4W

(SQUARE D NQOB)

BID PACKAGE #2:

APPROX. 225 FEET

BREAKER IN EXISTING PANEL USING #10 CONDUCTORS IN 3/4" CONDUIT. (ALT. #1 ONLY) 100% BID SET Revisions

Date

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6/2/2017

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Sheet Name:

TUNNEL PLAN

Scale:

Sheet:

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GENERAL CONTROL NOTES: BASE BID: TEMPERATURE CONTROL CONTRACTOR TO PROVIDE ONLY VFDS FOR EF(S). ALTERNATE #1: TEMPERATURE CONTROL CONTRACTOR TO PROVIDE A COMPLETE CONTROL SYSTEM EXTENDING FROM EXISTING DDC SYSTEM INCLUDING SENSORS, RELAYS, WIRING, CONDUIT, CONTROLLERS, PANELS,

ENCLOSURES AND OTHER COMPONENTS. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. TCC TO INSTALL ALL MFR PROVIDED CONTROLS COMPONENTS FURNISHED LOOSE DIAGRAMS ARE SCHEMATIC. PROVIDE ADDITIONAL POINTS WHERE REQUIRED TO MEET SEQUENCE OF

CONTROL. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL. UNLESS STATED OTHER, ELECTRICAL CONTRACTOR IS TO PROVIDE ALL LINE VOLTAGE POWER AND CONDUIT FOR CONTROL SYSTEM AND ALL CODE REQUIRED HARD WIRED POINTS FOR INTERACTION WITH FIRE ALARM SHUTDOWN. COORDINATE WITH EC ON REQUIRED POWER REQUIREMENTS AND

DI-CURRENT RELAY TO FAN ◀ - POWER WIRING BY EC. VFD'S PROVIDED BY TCC -CONTROL WIRING BY TCC FROM PANEL IN AO-VFD SPEED MECH ROOM (EF-1,2). TUNNEL EXHAUST FANS

UNDER BASE BID EXHAUST FANS ARE BY VFD(S) PROVIDED BY

CONTROL SEQUENCE

EXHAUST FANS SHALL BE CONTROLLED THRU THE DDC SYSTEM. FAN STATUS SHALL BE MONITORED THRU A CURRENT RELAY. FAN TO OPERATE BASED ON TIME OF DAY SCHEDULE. FANS SHALL BE DISABLED DUE TO A FIRE ALARM IN THE TUNNEL.

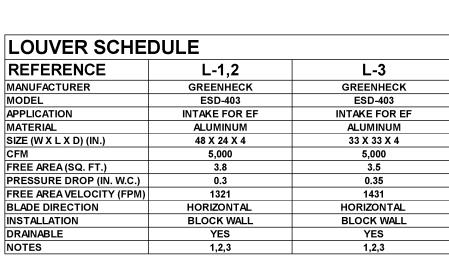
ALARMS AN ALARM SHALL BE GENERATED AT THE DDC IF FAN STATUS IS NOT PROVED. TRENDS ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS AT 15 MIN. INTERVALS OVER A MINIMUM 90 DAY PERIOD OF TIME.

© EXHAUST FAN CONTROL (EF) — (ALT. #1 ONLY) NOT TO SCALE

EXHAUST FAN SCHEDULE		
REFERENCE	EF-1,2	EF-3
MANUFACTURER	GREENHECK	GREENHECK
MODEL#	CSW-18-BI-41-4-100-I-30	CSW-18-BI-41-4-100-I-30
TYPE	F.C. CENTRIFUGAL UTITLY TYPE	F.C. CENTRIFUGAL UTITLY TYPE
SERVES	MULTIPLE TUNNELS	GRIMES TUNNEL
CFM	5,000	5,000
ESP (IN. W.C.)	0.75	0.75
FAN RPM	1585	1585
BELT/DIRECT	DIRECT	DIRECT
SPEED CONTROL (YES/NO)	NO	NO
SONES	35.0	35.0
DAMPER TYPE	NONE	NONE
ВНР	2.1	2.1
MOTOR HP	3.0	3.0
VOLTAGE/PH	208/3	480/3
NOTES	1,2,3	1,2,3

NOTES: 1. FAN SHALL BE CONTROLLED BY VFD PROVIDED BY T.C.C. REFER TO EXHAUST FAN CONTROL DETAIL. 2. DISCONNECT PROVIDED BY FAN MFR. 3. FAN MOTOR SHALL BE PREMIUM EFFICIENCY AND MEET NEMA TABLE 12-12 REQUIREMENTS.

LOUVER SCHEDULE			
REFERENCE	L-1,2	L-3	
MANUFACTURER	GREENHECK	GREENHECK	
MODEL	ESD-403	ESD-403	
APPLICATION	INTAKE FOR EF	INTAKE FOR EF	
MATERIAL	ALUMINUM	ALUMINUM	
SIZE (W X L X D) (IN.)	48 X 24 X 4	33 X 33 X 4	
CFM	5,000	5,000	
FREE AREA (SQ. FT.)	3.8	3.5	
PRESSURE DROP (IN. W.C.)	0.3	0.35	
FREE AREA VELOCITY (FPM)	1321	1431	
BLADE DIRECTION	HORIZONTAL	HORIZONTAL	
INSTALLATION	BLOCK WALL	BLOCK WALL	
DRAINABLE	YES	YES	
NOTES	1,2,3	1,2,3	



TYPE
FLEXIBLE
DUCT
CONNECTION. - SPRING VIBRATION ISOLATOR PROVIDED BY FAN MFR. EXISTING FAN SUPPORTS TO -SEAL ALL JOINTS WATER TIGHT D INTAKE LOUVER INSTALLATION MAINTENANCE TUNNEL NOT TO SCALE ENERGY PLANT A TUNNEL SYSTEM / FAN & FIRE PUMP LOCATIONS
NOT TO SCALE INSIDE CLEAR EXISTING PIT DIMENSIONS. (TYP.) FAN FITS IN SPACE WITH
ADEQUATE SERVICE CLEARANCE
AND MATCHES UP WITH EXISTING
SUPPORTS. EXHAUST FAN WORK IN PITS WILL BE IN A CONFINED SPACE ENVIRONMENT. IWD PITS GRIMES PIT

1. PROVIDE COLOR CHARTS FOR COLOR SELECTION.

2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS 3. PROVIDE LOUVER ABOVE, EQUIVALENT BY NCA, UNITED ENERTECH OR ENGINEER PRE-APPROVED EQUAL.

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