

# SAWYER INTERNATIONAL AIRPORT (MQT) **SCREENING EQUIPMENT DEPLOYMENT SERVICES** (SEDS)

**TASK ORDER: 70T04021D7672N032 CONTRACT NUMBER: 70T04021D7672N003** 

# **SMITHS WATERFALL CPSS ISSUE FOR CONSTRUCTION 10 MAY 2022**

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**GWINN, MICHIGAN** 



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2925 Briarpark Drive Houston, Texas 77042 Tel 713-821-2100 Fax 713-266-7182

Lockwood, Andrews & Newnam, Inc.













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GE	NERAL SHEET NOTES	
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В.	ANY PRIMARY TSA SCREENING EQUIPMENT NOT DIMENSIONED OR NOTED BY THE CONTRACTOR IS ASSUMED TO BE INSTALLED PER THE MOST CURR DESIGN PLANS.	
	TES BY SYMBOL "(#)"	<b>A LEO A DALY COMPANY</b>
		2925 Briarpark Drive
2.	RELOCATED EQUIPMENT REF. APD101.	Houston, Texas 77042 Tel 713-821-2100 Fax 713-266-7182
		INTERIM REVIEW ONLY Document incomplete: not intended for regulatory approval, permit, or construction. <u>MASON D. MCINTIRE</u> Engineer <u>125277</u> Registration Number <u>05/10/22</u> Date
		<b>MQT</b> SAWYER INTERNATIONAL AIRPORT
		CATEGORY II
		0 05/10/22 ISSUE FOR CONSTRUCTION MARK DATE DESCRIPTION
		DESIGNED BY: EPS DRAWN BY: EPS CHECKED BY: MDM SHEET TITLE MAIN TERMINAL CHECKPOINT FLOOR PLAN - FINAL
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┛		1		2	
		ELECTRICA	AL SYI	MBOLS	
		CIRCUITING AND WIRING		POWER	<u> </u>
		CIRCUIT ABOVE GRADE.	θ-	SIMPLEX WALL RECEPTACLE, VERTICALLY MOUNTED 18" AFF, UNLESS OTHERWISE NOTED.	A AC
	/~	CIRCUIT BELOW SLAB OR GRADE OR CAST IN SLAB ABOVE GRADE.		NEMA 5–20R, 20A, 125V. DUPLEX WALL RECEPTACLE, VERTICALLY	A/ AF AF
	"LA"-2	HOME RUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED. CIRCLE ON END OF HOME RUN INDICATES DIRECT CONNECTION TO EQUIPMENT.	⊖= GFI	NEMA 5–20R, 20A, 125V. "GFI" DENOTES GROUND FAULT INTERRUPTING, "WP" DENOTES WEATHER PROOF.	Al AL AT
A	•	CONDUIT STUB UP. CONDUIT STUB DOWN.	<b>\</b>	QUADRUPLEX WALL RECEPTACLE, VERTICALLY MOUNTED 18"AFF, UNLESS OTHERWISE NOTED. NEMA 5–20R, 20A, 125V.	AV BL C Cł
	S3	WALL SWITCH, SPST, 20A, 277/120V, VERTICALLY MOUNTED 48" AFF, UNLESS OTHERWISE NOTED. "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY, "K" DENOTES KEY OPERATED. "M" DENOTES	₽	SPECIAL PURPOSE WALL RECEPTACLE, VERTICALLY MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. NEMA CONFIGURATION AS INDICATED.	CC DC DI/ DI/ E
		MOTOR RATING, "P" DENOTES PILOT LIGHT, "S" DENOTES OCCUPANCY SENSOR, "T" DENOTES TIMER, "WP" DENOTES WEATHER PROOF, LOWER CASE LETTERS DENOTE SWITCHING SCHEME.	G	DISCONNECT SWITCH. ADJACENT TEXT DENOTES AMPERES/POLES/FUSE. "NF" DENOTES NON-FUSED. EX-"200/3/NF".	EN ET EX FA FA
		<u>LIGHTING</u>	-	SWITCHBOARD, DISTRIBUTION PANEL OR BRANCH PANEL BOARD. CHARACTERISTICS AS INDICATED ON PANEL SCHEDULE.	FL G, GF GF
		CEILING MOUNTED LIGHT FIXTURE. ADJACENT	Ţ	DRY-TYPE TRANSFORMER.	GF
	A .O	LOWER CASE DENOTES SWITCHING SCHEME,		SPECIAL PURPOSE DEVICES	GF
	A	BATTERY BACKUP OR ON EMERGENCY CIRCUIT.		WALL MOUNTED OUTLETS WITH DEVICES AS	IG IN
	Г <u>г</u> О	WALL MOUNTED LINEAR LIGHT FIXTURE. WALL MOUNTED LIGHT FIXTURE.	$A^{\bigoplus^{\bigtriangleup}}$	AND REFERENCED TO POWER/DATA OUTLET CONFIGURATION SCHEDULE.	IT J- K(
	8	EXIT SIGN, ARROWS AS INDICATED. DARKENED AREA DENOTES LIGHTED FACE.	©∆ A	MULTIPLEX OR RECESSED FLOOR BOX WITH DEVICES AS NOTED OR INDICATED BY ADJACENT LETTER AND REFERENCED TO POWER/DATA	KV KV KV
	4_4	EMERGENCY EGRESS FLOOD LIGHT WITH		OUTLET CONFIGURATION SCHEDULE.	KV LT
				DUAL COMPARTMENT POWER/COMMUNICATIONS POLE WITH DEVICES AS SHOWN, NOTED OR	MC MC MC
в		<ul> <li>TELEPHONE OUTLET, VERTICALLY MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. "W" DENOTES WALL PHONE MOUNTED 54" AFF WITH FACE PLATE DESIGNED FOR WALL MOUNTED PHONE. "P" DENOTES PAY PHONE OUTLET MOUNTED 42" AFF.</li> </ul>	A	REFERENCED TO POWER/DATA OUTLET CONFIGURATION SCHEDULE.	MC MI
	W		. 🗇	36" HIGH, FLOOR SUPPORTED, DUAL COMPARTMENT POWER/COMMUNICATIONS POLE WITH DEVICES AS SHOWN, NOTED OR INDICATED BY ADJACENT LETTER AND REFERENCED TO	ML MT NE NE
				POWER/DATA OUTLET CONFIGURATION SCHEDULE. SURFACE MOUNTED RACEWAY WITH DEVICES AS	N N
	4	COMBINATION TELEPHONE AND DATA OUTLET VERTICALLY MOUNTED 18" AFF UNLESS OTHERWISE NOTED.	A A	NOTED OR INDICATED BY ADJACENT LETTER AND REFERENCED TO POWER/DATA OUTLET CONFIGURATION SCHEDULE.	NI OC OH P PH
		FIRE PROTECTION	⊿	6" OR 8" RECESSED POKE—THRU WITH DEVICES AS BY ADJACENT LETTER AND	PF PS
_	Ś	SMOKE DETECTOR.	~	REFERENCED TO POWER/DATA OUTLET CONFIGURATION SCHEDULE.	QT RE
	F	MANUAL PULL STATION.			SF
	F	ALARM HORN AND STROBE.			ST
	Ē	ALARM STROBE ONLY.			TE TS
		MISCELLANEOUS			TY TN
	T	THERMOSTAT.			Τv
	S	CEILING MOUNTED SPEAKER.			U/ U/
	●	PUSH-BUTTON, MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED.			U/ UH UL
С	⊡™C	CEILING MOUNTED SURVEILLANCE CAMERA.			U( UF
	₩	WALL MOUNTED SURVEILLANCE CAMERA.			
		CARD READER.			
		FLOOR MOUNTED JUNCTION ROX "IG" DENOTES			W XF
	J	ISOLATED GROUND CIRCUIT. "T" DENOTES TELEPHONE AND DATA WIRING.			
	НĴ	WALL MOUNTED JUNCTION BOX.			
	J	CEILING MOUNTED JUNCTION BOX.			
	C	CLOCK OR CLOCK RECEPTACLE.			
		1		2	

# ABBREVIATIONS

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# **GENERAL NOTES**

4

<u>ABBR.</u>	DESCRIPTION	<u>ELE</u>	CTRICAL		
A AC A/E	AMPERES ALTERNATING CURRENT ARCHITECT/ENGINEER	A.	REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED EQUIPMENT LOCATIONS.		88444, 2 PAIR, TWISTED PLENUM RATED CABLE, 22 GAUGE, CAT 5, OR TSA OFFICE OF SECURITY SPECIFIED FOUNVALENT COORDINATE NEW ALARM
AFF AFG AIC	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CURRENT	В.	ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES.		SWITCH TYPE WITH EXISTING SWITCHES, LOCAL TSO, AND/OR AIRPORT SECURITY.
AL AL AT AVS	ADVANCED IMAGING TECHNOLOGY ALUMINUM ADVANCED TECHNOLOGY X-RAY ALTERNATE VIEWING STATION	C.	ALL ELECTRICAL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED.	R.	DO NOT SHARE NEUTRALS ON EQUIPMENT AND RECEPTACLE CIRCUITS.
AWG BLS C	AMERICAN WIRE GAUGE BOTTLED LIQUID SCANNER CONDUIT	D.	EXISTING ELECTRICAL INFORMATION SHOWN BASED ON THE LATEST AVAILABLE SITE SURVEY	S.	COORDINATE ELECTRICAL DEVICE COVERPLATE FINISH WITH TSA AND LOCAL AIRPORT AUTHORITY.
CKT COMM DC	CIRCUIT COMMUNICATIONS DIRECT CURRENT		TO FIELD VERIFY ALL ELECTRICAL INFORMATION SHOWN INCLUDING LOCATIONS OF EXISTING PANELS AND ROUTING OF NEW BRANCH CIRCUITS BEFORE	Τ.	PROVIDE TYPEWRITTEN LABELS ON ELECTRICAL OUTLETS INDICATING DEVICE SERVED, PANEL, AND CIRCUIT.
DIA DISC E EMCS	DIAMETER DISCONNECT EXISTING ENERGY MANAGEMENT CONTROL SYSTEM	E.	PLACING THEIR BID. REMOVE CONDUCTORS OR CABLE FROM ALL	U.	FOR EACH DATA OUTLET INDICATED, PROVIDE AN RJ45/568B, CATEGORY 6, DATA JACK AND CATEGORY 6, PLENUM RATED CABLE FROM DATA
ETD EX EXIST FA	EXPLOSIVE TRACE DETECTOR EXISTING FIRE ALARM	F.	ABANDONED CONDUIT. WHERE FLOOR MOUNTED J-BOXES ARE REMOVED,		JACK TO EXISTING IT CABINET TERMINATE WITH CONNECTOR SUITABLE FOR EXISTING PATCH PANEL. ROUTE CABLES IN CONDUIT IN EXPOSED OR
FACP FLA G,GND	FIRE ALARM CONTROL PANEL FULL LOAD AMPS GROUND, GROUND WIRE		OPENING WITH A UL LISTED SYSTEM HAVING A FIRE RATING EQUAL TO EXISTING FLOOR.		UNFINISHED AREAS OR WHERE REQUIRED BY LOCAL AIRPORT AUTHORITY. SUPPORT CABLE WITH J-HOOKS OR CABLE TRAY IN ENCLOSED, FINISHED
GFI GF/CI GF/GI	GROUND FAULT INTERRUPTER GOVERNMENT FURNISHED/CONTRACTOR INSTALLED GOVERNMENT FURNISHED/GOVERNMENT INSTALLED	G.	WHERE POKE-THRU FITTINGS ARE REMOVED, SEAL OPENING WITH A UL LISTED SYSTEM HAVING A FIRE RATING EQUAL TO EXISTING FLOOR. REPAIR OR PATCH FLOOR COVERING TO MATCH EXISTING.		WITH PERMISSION FROM AIRPORT IT OR SPECIAL SYSTEM TEAMS IN ADC. J-HOOKS ARE NOT TO BE USED IN T2.
GFR HP IG	GROUND FAULT RELAY HORSEPOWER ISOLATED GROUND	Н.	WHERE CORE DRILLING OF FLOOR IS REQUIRED, X-RAY EXISTING FLOOR SLAB TO AVOID EXISTING	V.	CIRCUIT TAGS MAY NOT NECESSARILY INDICATE DEDICATED CIRCUITS IN THE REFERENCED PANEL, BUT MAY INDICATE A SHARED CIRCUIT.
IN IT J-BOX	INCH INFORMATION TECHNOLOGY JUNCTION BOX		SLAB. GROUND-PENETRATING RADAR (GPR) MAY BE USED IF ACCEPTABLE TO AIRPORT AUTHORITY.	W.	FOR EQUIPMENT CORDS EXPOSED GREATER THAN 12", PROVIDE LENGTH REQUIRED OF WIREMOLD CORDUCT 1200 NEUTRAL COLOR TO CONCEAU
KUMIL KV KVA KW	KILOVOLT KILOVOLT–AMPS KILOWATT	Ι.	MAINTAIN 2'-0" RADIUS DISTANCE BETWEEN ALL EXISTING FLOOR DEVICES THAT PENETRATE FLOOR FOR ALL NEW FLOOR PENETRATIONS.	Х.	AND PROTECT CORD. RELOCATE EXISTING SECURITY CAMERAS AND/OR
KWH LTG MCA MCB	KILOWATT—HOUR LIGHTING MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER	J.	ALL CORE DRILLING TO BE DONE AT NIGHT, AND COORDINATED WITH LOCAL AIRPORT AUTHORITY AS PART OF IMPACT NOTICE PROCESS. COORDINATE		ADJUST AIMING AS REQUIRED BY SECURITY CAMERA OWNER. REFER TO A-001. COORDINATE ANY SECURITY CAMERA AIMING ADJUSTMENTS WITH AIRPORT OPERATIONS.
MCC MGB MIN MLO	MOTOR CONTROL CENTER MAIN GROUNDING BAR MINIMUM MAIN LUGS ONLY		ALL SCANNING/X-RAY ACTIVITY AND CORE DRILLING WITH LOCAL AIRPORT AUTHORITY AS PART OF IMPACT NOTICE PROCESS.	Y.	DISCONNECT AND REMOVE POWER, CONTROL, AND COMMUNICATIONS WIRING BACK TO SOURCE FOR ASSOCIATED DEVICE OR EQUIPMENT BEING REMOVED
MTD NEC NEMA	MOUNTED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS	К.	COORDINATE AND MAINTAIN A MINIMUM SEPARATION DISTANCE IN EACH DIRECTION OF 2 INCHES FROM ASSOCIATED AND/OR NEARBY EQUIPMENT. KEEP	_	UNDER THIS WORK. COORDINATE WITH TSA AND AIRPORT AUTHORITY PRIOR TO DISCONNECTION.
NFPA N	ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NEUTRAL, NEW	L.	THE DOME SECTION OF THE NEW X-RAY UNIT.	Ζ.	DATA OUTLETS LOCATED IN POSSIBLE TRAFFIC PATHS WILL BE RECESSED AND INSTALLED AS ON SHEET E-003.
NIC NTS OC OH	NOT IN CONTRACT NOT TO SCALE ON CENTER OVERHEAD	М.	WITHIN 18" OF A WTMD. REUSE EXISTING FLOOR PENETRATIONS AND CONDUIT WHERE POSSIBLE. ENLARGE PENETRATIONS	AA.	WHERE EXISTING DEVICES ARE REMOVED, MODIFY CIRCUIT AS NECESSARY SUCH THAT EXISTING DEVICES ON THE CIRCUIT WHICH ARE REMAINING
P PH PR	POLE(S) PHASE PAIR	N.	AS NECESSARY FOR NEW DEVICES.	AB.	CONTINUE TO BE OPERATIONAL. PROVIDE ALL 20 AMP BRANCH CIRCUITS WITH A
PSR QTY RE: REF	PRIVATE SCREENING ROOM QUANTITY REFER TO REFERENCE	0.	CLEAR OF ISA PERSONNEL AND PASSENGER WALK PATHS. LOCATIONS OF DEVICES SERVING TSA EQUIPMENT		MINIMUM OF (2) #12, #12G, IN 3/4 CONDUIT. INCREASE CONDUCTOR SIZES TO ACCOUNT FOR VOLTAGE DROP IN ACCORDANCE WITH THE FOLLOWING TABLE:
SPEC SS STSO	SPECIFICATION STAINLESS STEEL, SANITARY SEWER SUPERVISORY TRANSPORTATION		SHOWN ON PLAN VIEWS INDICATE DEVICE TYPE AND CIRCUITING. FOR PRECISE LOCATIONS REFER TO DIMENSIONED EQUIPMENT PLANS ON		CIRCUIT LENGTH CONDUCTOR GROUND
TDC TSO	SECURITY OFFICER TRAVEL DOCUMMENT CHECKER TRANSPORTATION SECURITY OFFICER		ARCHITECTURAL DRAWINGS AND EQUIPMENT DETAILS ON SHEETS E-002 AND E-003.		0 TO 100 FT #12 #12
TMGB TVSS	TELECOMMUNICATION MAIN GROUNDING BAR TRANSIENT VOLTAGE SURGE	٢.	RECONNECT EXISTING POWER AND DATA CONNECTIONS TO RELOCATED OR REPLACED EQUIPMENT. EXTEND EXISTING CONDUIT AS		100 TO 200 FT #10 #10
U/F U/G	SUPPRESSION UNDER FLOOR UNDER GROUND		REQUIRED, AND FIELD VERIFY EXISTING COMMUNICATIONS CABLING TO ENSURE CABLES HAVE SUFFICIENT LENGTH TO EXTEND TO NEW		CIRCUIT LENGTH IS THE ONE WAY DISTANCE FROM THE PANEL TO THE LOAD ALONG THE RACEWAY PATH. FOR THIS TABLE, THE MAXIMUM VALUES
U/S UH UL UON	UNDER SLAB UNIT HEATER UNDERWRITERS LABORATORIES, INC. UNLESS OTHERWISE NOTED		LOCATION WITHOUT SPLICING. IF CABLES ARE OF ADEQUATE LENGTH, EXTEND CABLES TO NEW LOCATION. IF EXISTING CABLE LENGTH IS INADEQUATE REMOVE EXISTING CABLES BACK TO		ARE 16 AMPS CIRCUIT LOAD, 3% VOLTAGE DROP AND 200' MAXIMUM BRANCH CIRCUIT LENGTH. THIS TABLE IS BASED ON COPPER CONDUCTORS
UPS V VA	UNINTERRUPTIBLE POWER SUPPLY VOLTS VOLT-AMPERE		SOURCE AND PROVIDE NEW CABLES FROM OUTLET TO SOURCE.		FROM NEC TABLE 9. THE AMPACITY OF EACH CONDUCTOR SIZE IS BASED ON NEC TABLE 310.16. UNITS ARE IN AMERICAN WIRE GAUGE
VFD W WP WTMD XFMR	VARIABLE FREQUENCY DRIVE WATT, WIDTH WEATHER PROOF WALK-THRU METAL DETECTOR TRANSFORMER	Q.	RELOCATE EXISTING WIRED SECURITY DURESS ALARM SWITCHES AND CONFIRM NEW LOCATION WITH AIRPORT AUTHORITY PRIOR TO INSTALLATION. EXTEND EXISTING CONDUIT AS REQUIRED, AND FIELD VERIFY EXISTING ALARM CABLING TO ENSURE CABLES HAVE SUFFICIENT LENGTH TO EXTEND TO NEW LOCATION WITHOUT SPLICING. IF CABLES ARE OF ADEQUATE LENGTH, EXTEND CABLES TO NEW LOCATION. IF EXISTING CABLE LENGTH IS INADEQUATE, REMOVE EXISTING CABLES BACK TO SOURCE AND PROVIDE NEW CABLES FROM OUTLET TO SOURCE PROVIDE ALARM CABLE BELDEN CABLE		(AWG) AND ENGLISH FEET (F1).

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0 SCALE: 3/8"=1'-0" 6

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G	ENERAL SHEET NOTES	
Α.	COORDINATE DEVICE LOCATIONS WITH EQUIPMENT LOCATIONS AS INDICATED ON THE ARCHITECTURAL PLANS. COORDINATE LOCATION AND CLEARANCE REQUIREMENTS WITH MANUFACTURER, LOCAL TSA, AND AIRPORT PERSONNEL. MAINTAIN A 2" MINIMUM CLEARANCE FROM WALLS, TABLE LEGS, EQUIPMENT ENCLOSURES, SECURITY GATES, ETC AND ANY OTHER OBSTRUCTION THAT WOULD LIMIT DISCONNECTING MEANS ACCESS REQUIRED BY CODE TO THE RECEPTACLES AND OUTLETS. LOCATE RECEPTACLES AND OUTLETS TO ENSURE THAT THEY ARE CLEAR OF PATHWAYS FOR PASSENGER AND TSA PERSONNEL.	Lockwood, Andrews & Newnam, Inc. A LEG A DALY COMPANY
Β.	DISTANCE FROM RECEPTACLE TO WTMD SHALL NOT EXCEED MAXIMUM CORD LENGTH OF 6'-O". PROVIDE THE WTMD RECEPTACLE UNDER THE OUTFEED CONVEYOR OR IN THE POWER POLE OF THE X-RAY UNIT. WHERE THIS LOCATION WOULD EXCEED THE WTMD CORD LENGTH, PROVIDE THE WTMD RECEPTACLE UNDER THE INFEED CONVEYOR OF THE AT X-RAY UNIT. IF NEITHER LOCATION IS AVAILABLE PROVIDE THE WTMD RECEPTACLE AS INDICATED IN DETAIL 6, THIS SHEET. FIELD VERIFY PLUG TYPE OF THE WTMD AND PROVIDE MATCHING RECEPTACLE TYPE. ALIGN WTMD ELECTRICAL CONNECTION TOWARDS RECEPTACLE. ALL RECEPTACLE OUTLETS SHALL BE PLACED AS TO PROVIDE ACCESS TO DISCONNECTING MEANS AND PREVENT USE OF WIRE MOLD.	2925 Briarpark Drive Houston, Texas 77042 Tel 713-821-2100 Fax 713-266-7182
C.	ALIGN INDIVIDUAL SURFACE MOUNTED RECEPTACLES LOCATED UNDER THE X—RAY UNIT ROLLERS/CONVEYORS ALONG A LINE PARALLEL WITH THE CENTERLINE OF THE X—RAY UNIT.	MASON DEngineer 123527 Registration Number 05/10/22 Date
D.	ALIGN INDIVIDUAL SURFACE MOUNTED RECEPTACLES LOCATED UNDER THE ETD TABLE ALONG A LINE PARALLEL WITH THE LONG DIMENSION (BACK) OF THE ETD TABLE.	
E.	PROVIDE THE AIT RECEPTACLE UNDER THE INFEED, OR OUTFEED CONVEYOR OF THE AT X-RAY UNIT AS INDICATED ON THE NEW WORK PLANS. IF NEITHER LOCATION IS AVAILABLE PROVIDE THE AIT RECEPTACLE AS INDICATED IN DETAIL 2A OR 2B, THIS SHEET.	<b>NGT</b> SAWYER INTERNATIONAL AIRPORT
N	OTES BY SYMBOL "()"	PORTATION CALLGONT II
1.	PREFERRED LOCATION OF SURFACE OR FLUSH DEVICE.	TRAF
2.	ACCEPTABLE LOCATION OF SURFACE OR FLUSH DEVICE WITHIN HATCHED AREA.	TIM WISTRATION
3.	ACCEPTABLE ALTERNATE LOCATION OF SURFACE OR FLUSH DEVICE SERVING WTMD IF PREFERRED LOCATION EXCEEDS 13'—0" CORD LENGTH.	U.S. DEPARTMENT OF HOMELAND SECURITY 601 SOUTH 12TH STREET, ARLINGTON, VA 22202
4.	PREFERRED LOCATION OF POWER POLE. COORDINATE POWER POLE LOCATION WITH ANY INTERFERING CEILING EQUIPMENT SUCH AS LIGHT FIXTURES, DIFFUSERS, GRILLES, SPRINKLER HEADS, ETC.	
5.	FOR EACH ETD/BLS/AVS RECEPTACLE, PROVIDE A UL LISTED POWER STRIP EQUAL TO APC MODEL P6H. MOUNT POWER STRIP TO THE ETD TABLE USING SCREWS THROUGH THE OFFSET MOUNTING HOLES ON THE REAR OF THE POWER STRIP.	
6.	LOCATION OF RECEPTACLE OUTSIDE PRIVATE SCREENING ROOM TO BE FIELD VERIFIED WITH TSA AND AIRPORT AUTHORITY.	
7.	LOCATION OF RECEPTACLE WHEN MULTIPLE AIT WORKSTATIONS ARE BEING INSTALLED.	
8.	INSTALL POKE THRU DEVICES IN ACCORDANCE WITH DETAIL 2, SHEET $E=003$	
9.	HATCHED AREA INDICATES WHERE NO DEVICE MAY BE LOCATED.	
10.	PREFERRED LOCATION OF POWER POLE. COORDINATE POWER POLE LOCATION WITH ANY INTERFERING CEILING EQUIPMENT SUCH AS LIGHT FIXTURES, DIFFUSERS, GRILLES, SPRINKLER HEADS, ETC. MUST BE LOCATED AT LEAST 4" AWAY FROM THE CT. POWER POLE LOCATIONS NOT LISTED AS PREFERRED OR ALTERNATE ARE NOT ACCEPTABLE.	0 05/10/22 ISSUE FOR CONSTRUCTION MARK DATE DESCRIPTION LAN PROJECT NUMBER: 170–10901–002 DESIGNED BY: EPS DRAWN BY: EPS
11.	ALTERNATE LOCATION OF POWER POLE. COORDINATE POWER POLE LOCATION WITH ANY INTERFERING CEILING EQUIPMENT SUCH AS LIGHT FIXTURES, DIFFUSERS, GRILLES, SPRINKLER HEADS, ETC. MUST BE LOCATED AT LEAST 4" AWAY FROM THE CT. POWER POLE LOCATIONS NOT LISTED AS PREFERRED OR ALTERNATE ARE NOT ACCEPTABLE	CHECKED BY: MDM SHEET TITLE ELECTRICAL DETAILS
		<b>E-002</b>
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WTMD/AIT/CO-LOCATED ETD POWER POLE



AIT/CO-LOCATED ETD CONFIGURATION "D"

STSO (P)

1 PER 4 LANES

(11) CONFIGURATION "P"

SCALE: NOT TO SCALE

DEDICATED

4 0

STSO

PSR POWER POLE (H)





	5		
	<b>GENERAL SHEET NOTES</b>		
ES X RECEPTACLE, 2 PER LANE EQUIREMENTS VARY. IMPLEX RECEPTACLE, ERIFY	A. THERE ARE FOUR (4) TYPES OF TSA APPROVED METHODS FOR ELECTRICAL DISTRIBUTION TO SSCP EQUIPMENT. THESE ARE LISTED BELOW. PROVIDE POWER AND DATA CONNECTIONS TO TSA EQUIPMENT AS INDICATED ON THE FLOOR PLANS. SHOULD THE DEVICE TYPE INDICATED ON THE FLOOR PLANS BE UNDESIRABLE BASED ON SITE CONDITIONS, PROVIDE ALTERNATE DEVICES AS DIRECTED BY TSA:	leidos	
EX RECEPTACLE EX RECEPTACLE	• RECESSED POWER/DATA POKE THRU DEVICES FOR THE FLOOR AND NON-SURFACE MOUNTED DEVICES FOR THE WALL.	Lockwood, Andrews & Newnam, Inc.	
CATED ETD OUTLET	• FLUSH POWER/DATA POKE THRU DEVICES FOR THE FLOOR AND NON-SURFACE MOUNTED DEVICES FOR THE WALL.	2925 Briarpark Drive Houston Texas 77042	
LEX RECEPTACLE P CIRCUIT. PROVIDE CEPTACLE.	<ul> <li>SURFACE MOUNTED PEDESTALS/MONUMENTS FOR THE FLOOR AND WALL (TOMBSTONE).</li> <li>DOWER (DATA DOLES)</li> </ul>	Tel 713-821-2100 Fax 713-266-7182	Α
EX RECEPTACLE RECEPTACLE, MAY BE CATED ETD OUTLET SAME LANE RECEPTACLE INSIDE	<ul> <li>POWERY DATA FOLLS.</li> <li>B. NOTE THAT THE POWER AND DATA OUTLET CONFIGURATIONS INDICATED ON THIS SHEET ARE FOR RECESSED POKE-THRU AND SURFACE MOUNTED PEDESTAL INSTALLATIONS, BUT ALSO APPLY TO FLOOR BOXES, POWER POLES, AND WALL MOUNTED OUTLETS AS INDICATED ON THE FLOOR PLANS.</li> </ul>		
EENING ROOM JPLEX OUTLET 30R OR L6-30R	C. RECESSED POKE-THRU DEVICES SHOWN ON THESE DETAILS ARE BASED ON WIREMOLD EVOLUTION SERIES MODEL 6AT.	INTERIM REVIEW ONLY Document incomplete: not intended for regulatory approval, permit, or construction. <u>MASON D. MCINTIRE</u> Engineer <u>123527</u> Registration Number	
IELD VERIFY BE MORE THAN TWO DINT BUT ONLY CAN	D. SURFACE MOUNTED PEDESTAL DEVICES SHOWN ON THESE DETAILS ARE BASED ON HUBBELL PEDESTAL SERIES FR680 AND FR480.	05/10/22 	
BE MORE THAN TWO DINT BUT ONLY CAN PER DUPLEX	E. VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM TYP.		
	TO 'CONFIGURATION C' FOR THE CT SERVER.	<section-header><section-header><section-header></section-header></section-header></section-header>	B
		0 05/10/22 ISSUE FOR CONSTRUCTION MARK DATE DESCRIPTION LAN PROJECT NUMBER: 170–10901–002 DESIGNED BY: EPS DRAWN BY: EPS CHECKED BY: MDM SHEET TITLE SMITHS DETECTION HI-SCAN CT SCANNER ELECTRICAL DETAILS	С
l	5	COPYRIGHT © 2011, LAN INC. 2011–09–19 Rev.	

1	2
DEVICE/NAME/SPACE	DATA CABLING REQUIREMENT
AT2 CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAM (1) REDUNDANT, MAINTAIN LANE ASSOCIATION
CT L3	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAN (1) REDUNDANT, MAINTAIN LANE ASSOCIATION
IDSS CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAN (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
ANALOGIC CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAN (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
SMITHS CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAN (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
GILARDONI CT	2–CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAI (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
RAPISCAN CT	2–CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAN (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
CT SERVER	2-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO CT, (1
AIT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDA
WTMD	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAI
ETD AND ETD @ AIT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDAI
BLS	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDA
TDC & CAT BPSS ETD	4-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDA
STSO	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDA
PRIVATE SCREENING ROOM INTERIOR	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDA
PANIC DURESS	VERIFY HEAD END, USE COMMON FEED AT XRAY.
PANIC DURESS RECEIVER	VERIFY LOCATION, (1) POTS LINE FOR ANALOG CONNECTION.
KRONOS	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDA

**DATA REQUIREMENTS TABLE A** ) SCALE: NOT TO SCALE

B

A

C

3	4
	<b>GENERAL NOTES</b>
-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (1) PRIMARY	1. DIAGRAM SHOWN AS TYPICAL 3-LANE CONFIGURAT DIAGRAM FOR CONNECTIVITY SCHEDULES ONLY. VE AIRPORT EQUIPMENT LAYOUT, AND EACH CORRESF CABLING REQUIREMENTS.
-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (1) PRIMARY	<ol> <li>PATCH CABLES FROM EQUIPMENT (DEVICE END) T CONNECTION (FLOOR POKE OUTLET, POWER POLE UNDER THE INSTALLATION TECHNICIANS SCOPE OF CABLING AT A MINIMUM OF 12 FEET IN LENGTH CONNECTIVITY.</li> </ol>
-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY -CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY	<ol> <li>PATCH CABLES FROM ALL THE OTHER EQUIPMENT THE HORIZONTAL CONNECTION (FLOOR POKE OUT OUTLET) PROVIDED UNDER THE INSTALLATION TEC WORK.</li> </ol>
-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY -CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY	4. PATCH CABLES FROM ALL THE TSA IT CABINET PO ENDS) TO ACTIVE SWITCH AND NETWORK EQUIPME THE INSTALLATION TECHNICIANS SCOPE OF WORK TSA OR AN APPROVED TSA NETWORK VENDOR.
RIMARY (1) REDUNDANT	<ol> <li>FOR AIRPORTS WITH EXISTING CAT 6A PATCH PAN PROVIDE CAT 6A RATED CABLE FOR ANY REMOVED NEW DATA CABLING. ANY EXISTING DATA CABLING REMOVED TO REMAIN IN PLACE. PROVIDE CAT 6A ANY NEW TECHNOLOGY / EQUIPMENT THAT REQUI COMMUNICATION.</li> </ol>
	6. PROVIDE CAT5/5e FOR ALL OTHER AIRPORTS THA MAINTAIN CAT5/5e STANDARDS, AND IF IT MEETS OF THE EQUIPMENT SERVED.
TDC, (1) PRIMARY (1) REDUNDANT @ ETD.	7. ALL EXISTING AND NEW CABLING THAT IS INSTALL ANTICIPATED TO BE UTILIZED FOR ACTIVE COMPON CERTIFIED/RE-CERTIFIED USING A LEVEL IV, 600M DTX CABLE ANALYZER OR EQUIVALENT. ALL TESTS FOR THE RATING OF THE INSTALLED CABLE INFRA CAT 5E, CAT 6 OR CAT 6A. CONTRACTOR TO CON CALIBRATION CERTIFICATES ARE ALSO SUBMITTED RESULTS. TESTER MUST BE CALIBRATED MEETING AND HAVE BEEN CALIBRATED AT LEAST ONCE IN MONTHS PRIOR TO THE CURRENT TESTS AND RES TO SUBMIT CERTIFIED TEST RESULTS IN DIGITAL 4



ELECTRICAL SPECIFICATIONS	B. CONTRACTOR'S PERSON	INEL AND S
SECTION 260500 - COMMON WORK RESULTS FOR ELECTRICAL	AND SKILLED IN THE TRA C. THE ARCHITECT/ENGINEI	DES INVOL
<ul> <li>1.1 GENERAL</li> <li>A. DESCRIPTION: WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AU OTHERWISE SPECIFIED, NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL SY THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS, SUBJECT TO THE TERMS AND COL</li> </ul>	IN WRITING. ALL ERRORS SPECIALTIES SHALL BE IN ND MATERIALS, UNLESS STEMS AS REQUIRED BY	IN INSTAL
CONTRACT. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF THOSE DETAILS OF ELEC MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF ALL 1.2 DRAWINGS AND SPECIFICATIONS	ELECTRICAL SYSTEMS.	ADJUSTED, AND ALL R NT SHALL I
A. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND OUTLETS, LOCAT	E. CONTRACTOR SHALL PRO IONS OF PANELBOARDS INSURANCE, PERMITS, AN	OVIDE A COND TAXES.
AND OTHER WORK. INFORMATION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC; HOWEVER ARCHITECT/ENGINEER WILL NOT PERMIT REVISING THE CIRCUITING SHOWN WITHOUT SPEC DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER; WORK REQU AS BINDING AS IF REQUIRED FOR BY BOTH. DATA PRESENTED ON THE DRAWINGS IS AS ACC DETERMINE, BUT ACCURACY IS NOT GUARANTEED AND CONTRACTOR'S FIELD VERIFICATION LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ARCHITECTUR SPECIFICATIONS; ADJUST ALL WORK TO CONFORM TO ALL CONDITIONS SHOWN THEREIN. D <sup>I</sup> OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS.	, THE IFIC APPROVAL. IRED BY EITHER SHALL BE URATE AS PLANNING CAN I OF ALL DIMENSIONS, AL DRAWINGS AND D NOT SCALE DISTANCES THE CONTRACTOR SHALL INCONVENIENCE DUE TO AREA POSSIBLE AT ANY ( AIRPORT AUTHORITY. TH INTERRUPTION AT PREMI 1.11 CHASES, OPENINGS, CUT	L SCHEDU SERVICE I ONE TIME / E CONTRA IUM TIME.
<ul> <li>B. PRIOR TO SUBMITTING A COST PROPOSAL, VISIT THE SITE OF THE JOB AND ASCERTAIN ALL THE PROPOSED INSTALLATION. INCLUDE ALLOWANCES FOR COSTS AND SCHEDULE EFFECT CONDITIONS.</li> <li>C. DISCREPANCIES BETWEEN DIFFERENT PLANS, BETWEEN PLANS AND SPECIFICATIONS, BETW DECLINATIONS AND CODES COVERNING THIS INSTALLATION SHALL DE PROVISULT TO THE ATT</li> </ul>	CONDITIONS AFFECTING S ARISING FROM FIELD VEEN SPECIFICATIONS, OR CONDITIONS AFFECTING A. CAREFULLY LAY OUT ALL CHASING, OR DRILLING C STRUCTURE, PIPING, DUC THE TRADES INVOLVED A ARCHITECT/ENGINEER. A	- WORK IN DF FLOORS CTS, EQUIF AT NO ADD ANY NECES
ARCHITECT/ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IN THE EVENT SUCH AND THE ARCHITECT/ENGINEER IS NOT SO NOTIFIED, THE ADJUDICATION OF RESPONSIBILIT THE DISCRETION OF THE ARCHITECT/ENGINEER.	ENTION OF THE PROPER SUPPORT, CONC DISCREPANCIES EXIST, Y SHALL BE SOLELY AT B. ALL OPENINGS MADE IN F TO CONFORM TO THE FIR	FIRE-RATE
1.3 SUBMITTALS	C. ALL PENETRATIONS REQ	
A. SUBMIT COPIES OF SHOP DRAWINGS AND PRODUCT DATA FOR THE FOLLOWING ITEMS: WIRL ASSEMBLIES, POWER POLES, FLOORBOXES, ENCLOSED SWITCHES, DRY TYPE TRANSFORME SUBMIT ONLY FOR PRODUCTS WHERE REQUIRED BY TECHNICAL SPECIFICATIONS SECTIONS REQUIRED WILL BE RETURNED WITHOUT ACTION.	NG DEVICES, POKE-THRU ERS AND PANELBOARDS.DRILLED AT MINIMUM SIZ STRUCTURAL CONCRETE PROCEEDING WITH CUTTSUBMITTALS NOTPROCEEDING WITH CUTT	IE REQUIRE E. THE CON FING OR DF
B. CONTRACTOR AGREES THAT SUBMITTALS PROCESSED BY THE ARCHITECT/ENGINEER ARE N THAT THE PURPOSE OF SUBMITTALS IS TO DEMONSTRATE TO THE ARCHITECT/ENGINEER TH UNDERSTANDS THE DESIGN CONCEPT; AND THAT THE CONTRACTOR DEMONSTRATES THIS CLEARLY INDICATING THE EQUIPMENT AND MATERIAL PROPOSED FOR APPLICATION, AND B' PROPOSED FABRICATION AND INSTALLATION METHODS.	D. SLEEVE SEALS. PROVIDE EXTERIOR WALLS. SEALS EXTERIOR WALLS. SEALS EXTERIOR WALLS. SEALS EXTERIOR WALLS. SEALS CONSISTING OF INTERLO DIALEMENTS TO EXPAND W	3 SHALL BE 3 SHALL BE 3 CKING SYI 3 SLEEVE, VHEN TIGH
C. CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONS (WHICH CONTRACTOR SHALL CON FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, AND COORDINATION OF H	1.12 ELECTRICAL COMPLETIO         FIRM AND CORRELATE),         IS WORK WITH THAT OF         A. SUBMIT CERTIFICATES O	)F FINAL IN
OTHER TRADES. THE CONTRACTOR SHALL CHECK AND VERIFY ALL MEASUREMENTS AND RE BEFORE SUBMITTING THEM. IF ANY DEVIATIONS FROM THE SPECIFIED REQUIREMENTS FOR OR EQUIPMENT EXIST, SUCH DEVIATION SHALL BE EXPRESSLY STATED IN WRITING AND INC THE SUBMITTAL.	VIEW SHOP DRAWINGS ANY ITEM OF MATERIAL DRPORATED AS PART OF AUTHORIZING OWNER OF SUBSTANTIAL COMPLETIN	START-UP: ANCE VERI R TENANT ION.
<ul> <li>D. NO EQUIPMENT OR MATERIALS SHALL BE INSTALLED OR STORED AT THE JOBSITE UNTIL SUB EQUIPMENT OR MATERIALS HAVE BEEN GIVEN REVIEW ACTION PERMITTING THEIR USE.</li> <li>1.4 RECORD DRAWINGS</li> </ul>	BMITTALS FOR SUCH C. CLEAN UP: REMOVE ALL I THE PREMISES AND ALL I THE SITE WILL BE CHARG	MATERIALS EQUIPMEN GED AGAIN
A. MAINTAIN A CONTRACT SET OF ELECTRICAL DRAWINGS AT THE SITE. NEATLY MARK ALL CHA FROM THE ORIGINAL DRAWINGS. USE A COLOR THAT CONTRASTS WITH THE PRINTS. THIS SI	NGES AND DEVIATIONS 1.13 EXAMINATION HALL BE A SEPARATE SET	
OF DRAWINGS, NOT USED FOR CONSTRUCTION PURPOSES, AND SHALL BE KEPT UP TO DATI PROGRESSES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE ARCHITECT/ENGINE COMPLETION OF THE CONTRACT, THIS SET OF RECORD DRAWINGS SHALL BE DELIVERED TO ARCHITECT/ENGINEER.	E AS THE JOB A. FIELD VERIFY MEASUREM ER AT ALL TIMES. UPON THE B. VERIFY THAT ABANDONE CONTINUITY TO REMAININ	VENTS AND ED WIRING ING WIRING
B. ALL POKE-THRU, FLOOR MONUMENTS AND/OR POWER POLES LOCATIONS SHALL BE DIMENS	IONED ON PLANS. C. REMOVAL DRAWINGS AR DISCREPANCIES TO ARCI	E BASED C
<ul><li>1.5 REGULATORY REQUIREMENTS</li><li>A. CONFORM TO THOSE EDITIONS OF THE FOLLOWING AS CURRENTLY ADOPTED BY THE LOCA AUTHORITY:</li></ul>	D. THE ELECTRICAL CONTR SHALL INCLUDE IN HIS BI DEVICES, FIXTURES, OR ADAPT NEW AND EXISTIN	ACTOR SH ID AN ALLO OTHER EQ NG ELECTR
<ol> <li>NFPA 70, NATIONAL ELECTRICAL CODE (NEC).</li> <li>TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANMAN IFEE C2</li> </ol>	NING GUIDE (CRPG). 1.14 PREPARATION	
<ul> <li>4. INTERNATIONAL BUILDING CODE INCLUDING LOCAL AMENDMENTS, AND APPLICABLE REG LOCAL FIRE DEPARTMENT, PREVENTION BUREAU, OR FIRE MARSHALL.</li> <li>B. OBTAIN ELECTRICAL PERMITS, PLAN REVIEW, AND INSPECTIONS FROM AUTHORITY HAVING.</li> </ul>	UIREMENTS OF THE A. PROVIDE TEMPORARY W CONSTRUCTION. WHEN W EXPERIENCED IN SUCH C	'IRING AND WORK MUS OPERATION
ALL NOTICES NECESSARY IN CONNECTION THEREWITH, AND PAY ALL FEES.	B. EXISTING ELECTRICAL SE SYSTEMS ARE ACCEPTED	ERVICE AN
<ul> <li>C. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGED STATUTES, OR ORDINANCES IN EFFECT. APPLICABLE CODES, ORDINANCES, STANDARDS AN PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN, OR CONFLICT WITH, THE DRAWING 1.6 MATERIALS AND FOUIPMENT</li> </ul>	D STATUTES TAKE COMPLETELY DISABLING S AND SPECIFICATIONS. SERVICE IN AREAS ADJAC OPERATION OF ALL SYST	SYSTEM. CENT TO V TEMS.
A. MATERIALS AND EQUIPMENT: ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SU	1.15 REMOVAL AND EXTENSIO	ON OF EXIS
B. COMPATIBILITY WITH AVAILABLE SPACE: EQUIPMENT LAYOUTS SHOWN ARE BASED ON USE	DF EQUIPMENT AS B. REMOVE ABANDONED WI	IRING TO S
SPECIFIED. IF THE CONTRACTOR CHOOSES EQUIPMENT AVAILABLE FROM ANY OTHER MANU ACCEPTABLE MANUFACTURER, OR OFFERS EQUIPMENT UNDER THE PROVISION FOR SUBST CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FIRST ASCERTAINING THAT THE OFFER INSTALLED IN THE SPACE AVAILABLE WITH AMPLE CLEARANCES FOR MAINTENANCE.	IFACTURER LISTED AS AN ITUTIONS, THE C. REMOVE EXPOSED ABAN ED EQUIPMENT CAN BE CUT CONDUIT FLUSH WIT	IDONED CO
C. ALL EQUIPMENT AND MATERIALS INSTALLED SHALL BE NEW, UNLESS OTHERWISE SPECIFIED SHOWN ON THE DRAWINGS AND/OR SPECIFIED, MANUFACTURED PRODUCTS SHALL BE STAN WHICH HAVE BEEN IN PRODUCTION FOR A PERIOD NOT LESS THAN TWO (2) YEARS PRIOR TO BIDS OR PROPOSALS.	D. EXCEPT AS OTHERWISE IDARD CATALOGED ITEMS D DATE FOR RECEIPT OF E. DISCONNECT AND REMOVE	NDONED A
D. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED, PRIOR TO FINAL A MANNER ACCEPTABLE TO THE ARCHITECT/ENGINEER OR OWNER AND AT NO ADDITIONAL CO	REMOVED. CCEPTANCE, IN A DIST TO THE OWNER E REPAIR AD IACENT CONS	
E. ALL ELECTRICAL MATERIALS SHALL BE ACCEPTABLE FOR INSTALLATION ONLY IF LABELED O NATIONALLY RECOGNIZED TESTING LABORATORY AND IF ACCEPTED BY LOCAL AUTHORITIE:	R LISTED BY A BOXES THAT MAY BE REN S.	JRE THAT ( NDERED IN
F. ALL MAJOR EQUIPMENT COMPONENTS SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS SERIAL NUMBER PERMANENTLY ATTACHED IN A CONSPICTIOUS LOCATION	G. MAINTAIN ACCESS TO EX PROVIDE ACCESS PANEL	(ISTING EL _ AS APPR(
1.7 STORAGE AND PROTECTION	H. EXTEND EXISTING INSTAI	LLATIONS
A. STORE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AN LEGIBLE. STORE SENSITIVE PRODUCTS IN WEATHER-TIGHT ENCLOSURES; MAINTAIN WITHIN	I. WHERE THE REUSE OF E ND LABELS INTACT AND THE WIRING FOR THEM IS TEMPERATURE AND	S CONTINU
1.8 PRODUCT OPTIONS	J. CONNECT NEW WORK TO THROUGHOUT IN CONFO	) EXISTING RMANCE V
A. PRODUCTS SPECIFIED BY REFERENCE STANDARDS OR BY DESCRIPTION ONLY: ANY PRODUC STANDARDS.	K. EXISTING CONDUITS, WIF CT MEETING THOSE THE CONTRACTOR UNLE	RES, DEVIC SS OTHER
B. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS WITH A PROVISION FOR A REQUEST FOR SUBSTITUTION FOR ANY MANUFACTURER NOT SPECIFICALLY NAMED.	SUBSTITUTIONS: SUBMIT L. IF HAZARD MATERIALS AF	RE ENCOU
C. PRODUCTS SPECIFIED BY NAMING ONE OR MORE MANUFACTURERS WITHOUT A PROVISION PRODUCTS OF NAMED MANUFACTURERS MEETING SPECIFICATIONS NO OPTIONS NO SUBS	1.16 CLEANING AND REPAIR FOR SUBSTITUTIONS: TITUTIONS ALLOWED. A CLEAN AND REPAIR EXIS	STING MATE
1.9 WARRANTY	B. PANELBOARDS: CLEAN E	XPOSED S
A. THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE LEFT IN PRO REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY WORK, MATERIALS, OR EQUIPMENT DEFECTS IN DESIGN, CONSTRUCTION, OR WORKMANSHIP WITHIN ONE YEAR, OR AS SPECIFI ELSEWHERE IN THESE SPECIFICATIONS, FROM DATE OF FINAL ACCEPTANCE.	DPER WORKING ORDER. WHICH EVIDENCES CALLY NOTED 1.17 INSTALLATION	EVISED CIF
1.10 WORKMANSHIP A. WORKMANSHIP SHALL CONFORM TO HIGHEST INDUSTRY STANDARDS FOR EACH TRADE INV	A. THE CONTRACTOR SHALL OR REMOVE ELECTRICAL MINIMIZE DAMAGE TO PO OLVED IN COMPLETION OF BE REUSED, RESURFACE	L PERFORM L EQUIPME )RTIONS OF ED, PLASTE

SUBCONTRACTORS SELECTED TO PERFORM THE WORK SHALL BE WELL VERSED \_VED.

- CCEPT ANY CHANGES OR DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS LATION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR. ALL AS DETAILED ON THE DRAWINGS, WHERE DETAILS OR SPECIFIC INSTALLATION D, MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.
- EQUIPMENT AND MATERIALS SHALL BE INSTALLED COMPLETE, THOROUGHLY AND LEFT READY FOR INTENDED USE OR OPERATION. ALL WORK SHALL BE ESIDUES SHALL BE REMOVED FROM SURFACES. EXTERIOR SURFACES OF ALL BE DELIVERED IN UNBLEMISHED CONDITION.
- OMPLETE INSTALLATION, INCLUDING ALL REQUIRED LABOR, MATERIAL, CARTAGE,
- LE HIS WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INTERRUPTION. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AND ALL INTERRUPTIONS SHALL REQUIRE A 72-HOUR PRIOR APPROVAL BY THE CTOR SHALL BE PREPARED TO PERFORM ALL WORK DURING SERVICE
- PATCHING
- ADVANCE SO AS TO ELIMINATE WHERE POSSIBLE, CUTTING, CHANNELING, , WALLS, PARTITIONS, CEILINGS AND ROOFS. ANY DAMAGE TO THE BUILDING, PMENT OR ANY DEFACED FINISH SHALL BE REPAIRED BY SKILLED MECHANICS OF ITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE SARY CUTTING, CHANNELING, DRILLING OR WELDING AS REQUIRED FOR THE , INSTALLATION OR ANCHORING OF RACEWAYS, OUTLETS, OR OTHER ELECTRICAL ) IN A CAREFUL MANNER, AND AS APPROVED.
- D WALLS, FLOORS, OR CEILINGS SHALL BE PATCHED AND MADE TIGHT IN A MANNER 1.1 BUILDING WIRE AND CABLE FOR THE U.L. RATED ASSEMBLY.
- ROUGH EXISTING MASONRY OR CONCRETE CONSTRUCTION SHALL BE CORE ED. PRECAUTIONS SHALL BE TAKEN WHEN DRILLING TO PREVENT DAMAGE TO ITRACTOR SHALL OBTAIN PERMISSION FROM THE ARCHITECT/ENGINEER BEFORE RILLING.
- EALS FOR PENETRATIONS LOCATED IN FOUNDATION WALLS BELOW GRADE, OR IN MODULAR MECHANICAL TYPE AS MANUFACTURED BY THUNDERLINE CORP. NTHETIC RUBBER LINKS SHAPED TO CONTINUOUSLY FILL ANNULAR SPACE CONNECTED WITH BOLTS AND PRESSURE PLATES WHICH CAUSE RUBBER SEALING TENED, PROVIDING WATERTIGHT SEAL.
- SPECTION AND ACCEPTANCE FROM AUTHORITIES HAVING JURISDICTION.
- PROVIDE ALL COMPLETION SERVICES, INCLUDING FINAL SYSTEMS AND/OR IFICATION, TO ENSURE THAT ALL SYSTEMS FUNCTION AS SPECIFIED BEFORE OCCUPANCY AND BEFORE ACCEPTING CERTIFICATES OF PARTIAL OR TOTAL
- , SCRAP, AND DEBRIS, RELATIVE TO THE ELECTRICAL INSTALLATION, AND LEAVE IT IN A CLEAN, ORDERLY CONDITION. ANY COSTS TO THE OWNER FOR CLEAN UP OF ST THE CONTRACTOR.
- D CIRCUITING ARRANGEMENTS.
- AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES. MAINTAIN ELECTRICAL S AND EQUIPMENT.
- ON CASUAL FIELD OBSERVATION AND/OR EXISTING RECORD DOCUMENTS. REPORT GINEER BEFORE DISTURBING EXISTING INSTALLATION.
- ALL VISIT THE SITE PRIOR TO BIDDING TO BE AWARE OF EXISTING CONDITIONS AND WANCE FOR THE REMOVAL AND RELOCATION OF EXISTING CONDUITS, WIRES, UIPMENT AS INDICATED ON THE PLANS OR AS REQUIRED TO COORDINATE AND RICAL SYSTEMS TO ALL OTHER WORK REQUIRED ON THIS PROJECT.
- CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING T BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS. USE PERSONNEL
- D TELEPHONE SYSTEM: MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW THERWISE INDICATED. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND ITAGES WITH THE AIRPORT AUTHORITY AT LEAST 72 HOURS BEFORE PARTIALLY OR MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN VORK AREA. CONTRACTOR SHALL NOT LEAVE THE SITE WITHOUT RESTORING THE
- TING ELECTRICAL WORK
- EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- SOURCE OF SUPPLY.
- ONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. AND FLOORS, AND PATCH SURFACES.
- S AND REMOVE DEVICES. REMOVE ABANDONED OUTLET BOXES IF CONDUIT ND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLET BOXES THAT ARE
- RICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN
- I AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PROVIDE CIRCUITS OR SYSTEMS WIRING SHALL NOT PASS THROUGH OUTLET OR JUNCTION ACCESSIBLE BY CHANGES MADE TO THE BUILDING.
- ECTRICAL INSTALLATIONS THAT ARE TO REMAIN ACTIVE. MODIFY INSTALLATION OR OPRIATE.
- USING MATERIALS AND METHODS AS SPECIFIED.
- ONDUITS, OUTLETS, JUNCTION BOXES, ETC. IS PERMISSIBLE, MAKE CERTAIN THAT JOUS FROM OUTLET TO OUTLET.
- WORK IN A MANNER THAT WILL ASSURE PROPER RACEWAY GROUNDING VITH THE NATIONAL ELECTRICAL CODE.
- ES, FIXTURES, ETC. THAT ARE TO BE REMOVED SHALL BECOME THE PROPERTY OF WISE NOTED.
- NTERED THE CONTRACTOR SHALL STOP WORK AND REPORT FINDINGS TO THE
- ERIALS AND EQUIPMENT THAT REMAIN OR ARE TO BE REUSED.
- URFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT RCUITING ARRANGEMENT.
- M ALL CUTTING, CHANNELING, CHASING, DRILLING, ETC. AS REQUIRED TO INSTALL NT IN AREAS OF REMODELING. THIS WORK SHALL BE PERFORMED SO AS TO WALL FINISHES, SURFACES, PLASTERING, OR THE STRUCTURES WHICH ARE TO RED, OR PAINTED.
- E REQUIRED REMODELING WORK, CUTTING AND PATCHING, ETC. PERFORMED BY CATE EXISTING ELECTRICAL CONDUITS, WIRES, DEVICES, FIXTURES, AND OTHER

- 1.18 TESTING, ACCEPTANCE AND CERTIFICATIONS
- A. THE CONTRACTOR SHALL PROVIDE THE NECESSARY FIELD-TESTING AND STARTUP SERVICES FOR ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT EXCEPT AS NOTED OTHERWISE. THE FIELD-TESTING AND STARTUP SERVICES SHALL BE IN ACCORDANCE WITH EACH EQUIPMENT MANUFACTURER'S WRITTEN RECOMMENDATIONS. NO TESTING SHALL BE PERFORMED WHICH IN ANY WAY BE IN CONFLICTS WITH THE MANUFACTURER'S RECOMMENDATIONS AND WHICH WILL ADVERSELY AFFECT ANY MANUFACTURER'S WARRANTIES.
- B. IF THE CONTRACTOR FINDS DURING THE TESTING THAT ANY PIECE OF EQUIPMENT DOES NOT SATISFACTORILY PASS THE REQUIRED FIELD TEST, THE ARCHITECT/ENGINEER SHALL BE PROMPTLY NOTIFIED AND THE CONTRACTOR SHALL TAKE THE NECESSARY ACTIONS FOR THE PROMPT REPAIR OR REPLACEMENT AS RECOMMENDED BY ARCHITECT/ENGINEER, THE EQUIPMENT SHALL THEN BE RETESTED. THIS PROCESS SHALL BE REPEATED, IF NECESSARY, UNTIL THE EQUIPMENT SATISFACTORILY PASSES THE REQUIRED TESTS.
- 1.19 GROUND RESISTANCE TEST
- A. UPON COMPLETION OF INSTALLATION OF ELECTRICAL GROUNDING SYSTEM, TEST GROUND RESISTANCE TO EARTH IN ACCORDANCE WITH ANSI/IEEE81. WHERE TEST SHOW RESISTANCE TO GROUND OVER 5 OHMS, TAKE APPROPRIATE ACTION TO REDUCE THE RESISTANCE TO 5 OHMS OR LESS.
- 1.20 CONDUCTOR INSULATION TEST
- A. PRIOR TO ENERGIZING, FEEDERS TO AND FROM TRANSFORMERS, SWITCHBOARDS, AND PANELBOARDS, AND BRANCH CIRCUIT CONDUCTORS 4 AWG AND LARGER FROM PANELBOARDS INSTALLED UNDER THIS PROJECT ARE TO BE TESTED WITH A 500-VOLT INSULATION MEGOHM METER TO DETERMINE INSULATION RESISTANCE LEVELS. ALL FIELD TEST DATA IS TO BE RECORDED, CORRECTED TO A BASELINE TEMPERATURE AND FURNISHED TO THE PROJECT MANAGER. A TEST IS TO INCLUDE MEGGERING FOR ONE MINUTE BETWEEN CONDUCTORS AND BETWEEN EACH CONDUCTOR AND GROUND. CABLES ARE TO BE MEGGERED AFTER INSTALLATION WITH CABLES DISCONNECTED AT BOTH ENDS. INSULATION TEST VALUES SHALL MEET OR EXCEED THE VALUES GIVEN BELOW.
- SECTION 260519 LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
- A. CONDUCTOR: COPPER
- B. INSULATION VOLTAGE RATING: 600 VOLTS.
- C. INSULATION: NFPA 70, TYPE THHN/THWN RATED 90 DEGREES C.
- 1.2 METAL CLAD CABLE
- A. CONDUCTOR: COPPER
- B. INSULATION VOLTAGE RATING: 600 VOLTS.
- C. INSULATION TEMPERATURE RATING: 75 DEGREES C.
- D. INSULATION MATERIAL: THERMOPLASTIC.
- E. ARMOR MATERIAL: STEEL
- F. ARMOR DESIGN: INTERLOCKED METAL TAPE
- 1.3 PREPARATION
- A. COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.
- B. METAL CLAD CABLE MAY BE USED ONLY FOR OUTLET-TO-OUTLET BRANCH CIRCUIT WIRING IN STUD PARTITIONS OR CASEWORK; AND FOR BRANCH CIRCUIT DROPS FROM A LOCAL JUNCTION BOX ABOVE THE CEILING INTO A STUD WALL, CASEWORK, OR POWER POLE.
- 1. USES NOT PERMITTED INCLUDE BRANCH CIRCUIT HOME RUNS OR EXPOSED INSTALLATIONS.
- 1.4 INSTALLATION
- A. USE SOLID CONDUCTOR FOR FEEDERS AND BRANCH CIRCUITS 12 AWG AND SMALLER.
- B. USE SOLID OR STRANDED CONDUCTOR FOR FEEDERS AND BRANCH CIRCUITS 10 AWG.
- C. USE STRANDED CONDUCTOR FOR FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND LARGER.
- D. USE STRANDED CONDUCTORS FOR CONTROL CIRCUITS. ALL CONTROL WIRE ENDS SHALL BE TINNED OR FITTED WITH CRIMP-ON CONNECTORS.
- E. USE CONDUCTOR NOT SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS.
- F. USE 10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET TO THE FIRST FIXTURE OR DEVICE.
- G. PULL ALL CONDUCTORS INTO RACEWAY AT SAME TIME. WIRE PULLING SHALL BE PERFORMED THROUGH THE SYSTEM IN SUCH A MANNER AS TO NOT EXCEED THE MAXIMUM TENSILE STRENGTH OF THE CABLE BEING PULLED AS ALLOWED BY NEC AND, OR THE CABLE MANUFACTURER. PULLING COMPOUND SHALL BE NON-CONDUCTIVE AND SHALL DRY TO A FINE LUBRICATING POWDER.
- H. WHERE A BRANCH CIRCUIT EXTENDS THROUGH A RECEPTACLE OUTLET, ALL CONNECTING CONDUCTORS SHALL BE PIGTAILED SO AS TO PREVENT DOWNSTREAM LOADS FROM BEING CONDUCTED BY RECEPTACLE.
- I. USE SUITABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE 4 AWG AND LARGER.
- J. SUPPORT CABLES ABOVE ACCESSIBLE CEILING, USING SPRING METAL CLIPS OR METAL CABLE TIES TO SUPPORT CABLES FROM STRUCTURE. CEILING SUSPENSION SYSTEM OR SUSPENDED GRID SYSTEMS SHALL NOT BE ALLOWED TO PROVIDE SUPPORT FOR CABLE WIRING SYSTEMS. DO NOT ALLOW CABLE TO REST ON CEILING PANELS.
- K. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
- L. USE SPLIT BOLT CONNECTORS FOR COPPER CONDUCTOR SPLICES AND TAPS, 6 AWG AND LARGER. TAPE UNINSULATED CONDUCTORS AND CONNECTOR WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.
- M. USE SOLDERLESS PRESSURE CONNECTORS WITH INSULATING COVERS FOR COPPER CONDUCTOR SPLICES AND TAPS, 8 AWG AND SMALLER.
- N. USE INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPS, 10 AWG AND SMALLER.
- 1.5 WIRE AND CABLE COLOR CODING
- A. WIRE NO. 6 AWG AND SMALLER SHALL BE FACTORY COLOR-CODED. WIRE NO. 4 AWG AND LARGER MAY BE COLOR-CODED BY FIELD PAINTING OR COLOR TAPING OF 6-INCH LENGTH OF EXPOSED ENDS. CONDUCTORS HAVING WHITE, GRAY, WHITE WITH COLORED STRIPE, GREEN OR GREEN WITH COLORED STRIPE SHALL NOT BE USED TO INDICATE OTHER THAN NEUTRAL OR GROUNDING.

277/480 VOLTS
A = BROWN
B = ORANGE
C = YELLOW
NEUTRAL = GRAY
GROUND = GREEN

- SECTION 260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
- 1.1 GENERAL
- A. FOR ALL ALTERATIONS OR EXTENSIONS OF EXISTING SYSTEMS REQUIRED UNDER THIS PROJECT, PERFORM ALL WORK REQUIRED TO ESTABLISH AND MAINTAIN CONTINUITY OF NEUTRAL AND EQUIPMENT GROUNDING SYSTEMS IN CONFORMITY WITH NFPA 70 AND APPLICABLE SPECIFIC REQUIREMENTS.
- B. GROUND EACH SEPARATELY DERIVED SYSTEM NEUTRAL TO THE NEAREST EFFECTIVELY GROUNDED BUILDING STRUCTURAL STEEL MEMBER. IF EFFECTIVELY GROUND STRUCTURAL STEEL NOT AVAILABLE, GROUND TO THE MAIN COLD WATER LINE WITHIN FIVE FEET OF THE BUILDING ENTRANCE. BOND THE NEUTRAL TO THE LOCAL METAL COLD WATER LINE AND EXPOSED STRUCTURAL STEEL AS REQUIRED IN ARTICLE 250 OF THE NEC.
- C. BOND TOGETHER SYSTEM NEUTRALS, SERVICE EQUIPMENT ENCLOSURES, EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND PLUMBING SYSTEMS.
- 1.2 PERFORMANCE REQUIREMENTS
- A. GROUNDING SYSTEM RESISTANCE: 5 OHMS MAXIMUM.

	5	
1.3	WIRE	
A.	MATERIAL: STRANDED COPPER.	
В.	GROUNDING ELECTRODE CONDUCTOR: SIZE TO MEET NFPA 70 REQUIREMENTS.	<b>leidos</b>
1.4 A	INSTALLATION	
А.	OR EQUIVALENT.	
SEC	TION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	
1.1	REQUIREMENTS	Lockwood, Andrews & Newnam, Inc.
A.	FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE USING RECAST INSERT SYSTEM, EXPANSION ANCHORS, PRESET INSERTS, BEAM CLAMPS, OR SPRING STEEL CLIPS.	A LEO A DALY COMPANY
B.	USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY, PLASTER, OR GYPSUM BOARD PARTITIONS AND WALLS; EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS; SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES; SHEET METAL SCREWS IN SHEET METAL STUDS; AND WOOD SCREWS IN WOOD CONSTRUCTION.	2925 Briarpark Drive Houston, Texas 77042 Tel 713-821-2100
C.	DO NOT FASTEN SUPPORTS TO PIPING, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.	Fax 713-266-7182
D.	DO NOT USE POWDER-ACTUATED ANCHORS.	
F.	ELECTRICAL DEVICES OR EQUIPMENT SHALL NOT BE HUNG FROM THE ROOF DECK.	
G.	FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR STEEL CHANNEL, RIGIDLY WELDED OR BOLTED TO PRESENT A	
H.	IN WET LOCATIONS, INSTALL FREESTANDING ELECTRICAL EQUIPMENT ON CONCRETE PADS.	INTERIM REVIEW ONLY
I.	INSTALL SURFACE-MOUNTED PANELBOARDS WITH MINIMUM OF FOUR ANCHORS. PROVIDE STEEL CHANNEL SUPPORTS TO STAND CABINET ONE INCH OFF WALL.	Document incomplete: not intended for regulatory approval, permit, or construction. <u>MASON D. MCINTIRE</u> Engineer 123527
J. 1 2	BRIDGE STUDS TOP AND BOTTOM WITH CHANNELS TO SUPPORT FLUSH-MOUNTED PANELBOARDS IN STUD WALLS.	Registration Number 05/10/22 Date
A.	PROVIDE CONCRETE EQUIPMENT BASES FOR ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT ON A CONCRETE FLOOR. DIMENSIONS SHALL BE 4 INCHES HEIGHT WITH WIDTH AND LENGTH PROVIDING 4 INCHES OF PROJECTION OF BASE BEYOND OUTLINE DIMENSION OF SUPPORTED EQUIPMENT.	
SEC	TION 260533 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEM	
1.1	CONDUIT REQUIREMENTS	
A.	MINIMUM SIZE: 1/2 INCH (EXCEPT THAT BRANCH CIRCUIT HOME RUNS TO PANELBOARD TO BE NOT LESS THAN 3/4 INCH) UNLESS OTHERWISE SPECIFIED.	
B.	OUTDOOR LOCATIONS, ABOVE GRADE: USE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT WHERE EXPOSED UP TO 8'-0" ABOVE FINISHED GRADE. USE ELECTRICAL METALLIC TUBING ABOVE 8'-0" ABOVE FINISHED	SAWYER
C.	GRADE. WET AND DAMP LOCATIONS: USE RIGID STEEL CONDUIT, INTERMEDIATE METAL CONDUIT OR, ELECTRICAL METALLIC	AIRPORT
D.	DRY LOCATIONS:	CATEGORY II
	<ol> <li>CONCEALED: USE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT OR ELECTRICAL METALLIC TUBING.</li> <li>EXPOSED: USE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT UP TO 8'-0" ABOVE FINISHED FLOOR AND ELECTRICAL METALLIC TUBING ABOVE 8'-0".</li> </ol>	SPORTATION SHE
1.2 A.	CONDUIT INSTALLATION INDENTER, PUSH-ON, DIE CAST, OR PRESSURE CAST ZINC ALLOY, WHITE METAL OR POT METAL FITTINGS SHALL NOT	TRA
B.	BE USED. EMT CONNECTIONS IN DRY LOCATIONS SHALL BE CONCRETE-TIGHT STEEL DOUBLE SETSCREW WITH INSULATED	PANINISTRATION
C.	RIGID AND INTERMEDIATE CONDUIT CONNECTIONS SHALL BE CONCRETE-TIGHT THREADED TYPE WITH INSULATED	U.S. DEPARTMENT OF HOMELAND SECURITY 601 SOUTH 12TH STREET, ARLINGTON, VA 22202
D.	EMT CONDUIT CONNECTIONS IN WET LOCATIONS SHALL BE INSULATED THROAT COMPRESSION CONNECTORS.	
E.	FLEXIBLE METALLIC TUBING CONNECTORS SHALL BE THOMAS & BETTS TITE-BITE.	
F.	CONDUIT SHALL NOT BE MOUNTED ON DUCTWORK OR OTHER MECHANICAL EQUIPMENT EXCEPT WHERE NECESSARY TO MAKE CONNECTIONS TO ELECTRICAL DEVICES THAT ARE PART OF OR MOUNTED ON SUCH EQUIPMENT. WHERE CONDUIT MUST BE INSTALLED ON EQUIPMENT, DO NOT COVER ACCESS DOORS, CONTROLS, REMOVABLE PANELS, OR OTHERWISE HINDER NORMAL MAINTENANCE AND REPAIR OF THE EQUIPMENT. WHERE IT IS NECESSARY TO MAKE CONDUIT CONNECTIONS TO EQUIPMENT MOUNTED ON VIBRATION MOUNTS, FLEXIBLE CONNECTION SHALL BE USED.	
G.	DO NOT SUPPORT CONDUIT WITH WIRE OR PERFORATED PIPE STRAPS. REMOVE WIRE USED FOR TEMPORARY SUPPORTS	
H.	DO NOT ATTACH CONDUIT TO CEILING SUPPORT WIRES. SUSPENDED CEILING GRIDS SHALL NOT BE USED AS A MEANS OF SUPPORTING WIRING SYSTEMS.	
I. J.	ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO WALLS. MAINTAIN 12-INCH CLEARANCE BETWEEN CONDUIT AND SURFACES WITH TEMPERATURES EXCEEDING 104	
K.	DEGREES F. INSTALL NO MORE THAN EQUIVALENT OF THREE 90-DEGREE BENDS BETWEEN BOXES. USE CONDUIT BODIES TO MAKE	
I	THAN 2-INCH SIZE. AVOID MOISTURE TRAPS: PROVIDE JUNCTION BOX WITH DRAIN FITTING AT LOW POINTS IN CONDUIT SYSTEM	
L. M.	PROVIDE SUITABLE FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE CONDUIT CROSSES SEISMIC, CONTROL AND EXPANSION JOINTS	
N.	PROVIDE SUITABLE PULL STRING IN EACH EMPTY CONDUIT EXCEPT SLEEVES AND NIPPLES.	0 05/10/22 ISSUE FOR CONSTRUCTION
1.3	INTERFACE WITH OTHER PRODUCTS	MARK DATE DESCRIPTION
A.	INSTALL CONDUIT TO PRESERVE FIRE RESISTANCE RATING OF PARTITION ASSEMBLIES AND OTHER ELEMENTS.	LAN PROJECT NUMBER: 170–10901–002 DESIGNED BY: EPS
В.	PITCH POCKET.	DRAWN BY: EPS
1.4	OUTLET BOXES SHEET METAL OUTLET BOXES: NEMA OS 1. GALVANIZED STEEL	CHECKED BY: MDM SHEET TITLE
A.	<ol> <li>RECEPTACLES AND SPECIAL ELECTRICAL SYSTEM DEVICES SHALL BE MOUNTED IN 4" SQUARE BOXES OF 25 CUBIC INCH MINIMUM CAPACITY, SUITABLY FITTED WITH APPROPRIATE COVERS WHERE NECESSARY TO SET FLUSH WITH THE FINISHED SURFACE.</li> </ol>	ELECTRICAL SPECIFICATIONS
В.	CAST BOXES: NEMA FB 1, TYPE FS, ALUMINUM OR CAST IRON, PROVIDE GASKETED COVER BY BOX MANUFACTURER. PROVIDE THREADED HUBS.	
1.5		
A.		
		E-201
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	1	2
	1.6 BOX INSTALLATION	B. INSULATION SYSTEM AND AVERAGE WINDING TEMPERATURE RISE FOR RATED KVA AS FOLLOWS:
	A. ELECTRICAL BOXES ARE SHOWN ON DRAWINGS IN PREFERRED LOCATIONS AS INDICATED IN THE LATEST VERSION OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG). IF	<ol> <li>1-15 KVA: CLASS 185 WITH 115 DEGREES C RISE.</li> <li>16-500 KVA: CLASS 220 WITH 115 DEGREES C RISE.</li> </ol>
	REQUIRED DUE TO SITE CONSTRAINTS, ADJUST BOX LOCATIONS WITHIN THE ACCEPTABLE AREAS INDICATED IN THE LATEST VERSION OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING	C. WINDING TAPS:
	B. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY.	<ol> <li>TRANSFORMERS LESS THAN 15 KVA: TWO 5 PERCENT BELOW RATED VOLTAGE, FULL CAPACITY TAPS ON I WINDING.</li> </ol>
	C. INACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING	<ol> <li>TRANSFORMERS 15 KVA AND LARGER: TWO 2-1/2% FULL CAPACITY TAPS ABOVE AND FOUR 2-1/2% FULL CA TAPS BELOW RATED PRIMARY VOLTAGE.</li> </ol>
	D. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS.	D. SOUND LEVELS: NEMA ST 20.
	E. USE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.	E. MOUNTING: 1. 1-15 KVA: SUITABLE FOR WALL MOUNTING.
	F. LOCATE FLUSH MOUNTING BOX IN MASONRY WALL TO REQUIRE CUTTING OF MASONRY UNIT CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENING.	<ol> <li>16-75 KVA: SUITABLE FOR WALL, FLOOR, OR TRAPEZE MOUNTING.</li> <li>LARGER THAN 75 KVA: SUITABLE FOR FLOOR MOUNTING.</li> </ol>
	G. DO NOT INSTALL FLUSH MOUNTED BOXES BACK-TO-BACK IN WALLS; PROVIDE MINIMUM 6 INCHES SEPARATION. PROVIDE MINIMUM 24 INCHES SEPARATION IN ACOUSTIC OR FIRE RATED WALLS.	1.3 INSTALLATION
A	1. FIRE RATED WALLS: IF ACCEPTABLE TO THE LOCAL AUTHORITY, BOXES MAY BE SPACED A MINIMUM OF 6 INCHES	A. USE FLEXIBLE CONDUIT 2 FEET MINIMUM LENGTH, FOR CONNECTIONS TO TRANSFORMER CASE. MAKE COND CONNECTIONS TO SIDE PANEL OF ENCLOSURE.
	H. USE STAMPED STEEL BRIDGES TO FASTEN FLUSH MOUNTING OUTLET BOX BETWEEN STUDS.	B. MOUNT FLOOR-MOUNTED TRANSFORMERS ON VIBRATION ISOLATING PADS SUITABLE FOR ISOLATING THE TRANSFORMER NOISE FROM THE BUILDING STRUCTURE.
	I. USE ADJUSTABLE STEEL CHANNEL FASTENERS FOR HUNG CEILING OUTLET BOX.	C. MEASURE PRIMARY AND SECONDARY VOLTAGES AND MAKE APPROPRIATE TAP ADJUSTMENTS.
	J. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES.	SECTION 262416 - PANELBOARDS
	K. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.	1.1 MANUFACTURERS - PANELBOARDS
	E. USE GANG BOX WHERE MORE THAN ONE DEVICE IS MOUNTED TOGETHER. DO NOT USE SECTIONAL BOX. USE GANG BOX WITH PLASTER RING FOR SINGLE DEVICE OUTLETS.	A. ACCEPTABLE MANUFACTURERS: GENERAL ELECTRIC, CUTLER-HAMMER, SQUARE D, SIEMENS OR PER MANUFACTURER STATED IN AIRPORT STANDARDS AND SPECIFICATIONS.
	M. USE CAST BOXES IN EXTERIOR LOCATIONS EXPOSED TO THE WEATHER AND IN INTERIOR WET LOCATIONS.	1.2 BRANCH CIRCUIT PANELBOARDS.
	N. USE CAST FLOOR BOXES FOR INSTALLATIONS IN SLAB ON GRADE; FORMED STEEL BOXES ARE ACCEPTABLE FOR OTHER INTERIOR INSTALLATIONS. SET FLOOR BOXES LEVEL.	A. DESCRIPTION: NEMA PB1, CIRCUIT BREAKER TYPE, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD
	SECTION 260534 - FLOOR BOXES FOR ELECTRICAL SYSTEMS	B. PANELBOARD BUS: COPPER, RATINGS AS INDICATED. PROVIDE COPPER GROUND BUS IN EACH PANELBOARD
	1.1 MANUFACTURERS - FLOOR BOXES AND FLOOR- MOUNTED SERVICE FITTINGS	PROVIDE INSULATED GROUND BUS WHERE SCHEDULED.
	A. ACCEPTABLE MANUFACTURERS: WIREMOLD, HUBBELL.	C. MAIN BREAKERS SHALL BE INDIVIDUALLY MOUNTED. BRANCH MOUNTED MAIN BREAKERS WILL NOT BE ALLOW
	1.2 FLOOR BOXES A FLOOR BOXES <sup>:</sup> NEMA OS 1. SEMI-AD.IUSTABLE	PANEL. SERIES RATED EQUIPMENT WILL NOT BE ACCEPTABLE.
	B. SHAPE: RECTANGULAR.	E. MOLDED CASE CIRCUIT BREAKERS: NEMA AB 1, BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS COMMON TRIP HANDLE FOR ALL POLES. DO NOT USE TANDEM CIRCUIT BREAKERS.
	1.3 FLOOR-MOUNTED SERVICE FITTINGS	F. CABINET FRONT: CABINET FRONT SHALL BE DOOR-IN-HINGED COVER TYPE METAL DIRECTORY FRAME, AND F
	A. SURFACE TOMBSTONE TYPE SERVICE FITTING FOR COMBINATION RECEPTACLES AND COMMUNICATIONS/DATA CABLING: SATIN ALUMINUM HOUSING WITH STAINLESS STEEL DEVICE PLATES FOR RECEPTACLES AND	LOCK ALL REYED ALIKE OR PER TYPE STATED IN AIRPORT STANDARDS AND SPECIFICATIONS. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL.
	COMMUNICATIONS/DATA PORTS AS INDICATED ON DRAWINGS.	1.3 INSTALLATION
	FIRE STOPS AND SMOKE BARRIERS IN THROUGH-FLOOR COMPONENTS AS INDICATED ON DRAWINGS. TERMINATE IN 4-INCH SQUARE BY 2-1/2 INCH DEEP JUNCTION BOX.	<ul> <li>A. HEIGHT: 6 FEET TO TOP OF PANELBOARD; INSTALL PANELBOARDS TALLER THAN 6 FEET WITH BOTTOM NO MO 4 INCHES ABOVE FLOOR.</li> </ul>
	1.4 EXAMINATION	B. PROVIDE FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS.
	A. VERIFY EXACT LOCATIONS OF FLOOR BOXES PRIOR TO ROUGH-IN.	C. MEASURE STEADY STATE LOAD CURRENTS AT EACH PANELBOARD FEEDER; REARRANGE CIRCUITS IN THE
В	B. VERIFY THAT FLOOR BOXES ARE ADJUSTED PROPERLY.	FOR MULTI-WIRE BRANCH CIRCUITS.
	INDICATED IN THE LATEST VERSION OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG). IF REQUIRED DUE TO SITE CONSTRAINTS, ADJUST BOX LOCATIONS WITHIN THE ACCEPTABLE AREAS INDICATED IN THE LATEST VERSION OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG).	D. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. REVISE DIRECTORY TO REF CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS, OR TO INDICATE CHANGES AS THE RESULT OF REMODELING.
	1.5 PREPARATION	SECTION 262723 - INDOOR SERVICE POLES
	A. CLEAN DEBRIS FROM FLOOR BOXES.	1.1 MANUFACTURERS - INDOOR SERVICE POLES
	1.6 INSTALLATION	A. ACCEPTABLE MANUFACTURERS: WIREMOLD, HUBBELL.
	B. CONNECT WIRING DEVICE GROUNDING TERMINAL TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.	1.2 INDOOR SERVICE POLES
	C. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND SCREW TERMINAL.	A. MAIN BODY: TWO-CHANNEL COMPARTMENTALIZED STEEL OR ALUMINUM CONSTRUCTION. MATERIAL TO MATE AIRPORT STANDARD FINISHES IN AREA OF INSTALLATION.
	D. X-RAY FLOOR SLAB PRIOR TO SAW CUTTING OR CORE DRILLING FLOOR. GROUND-PENETRATING RADAR (GPR) MAY BE USED IF ACCEPTABLE TO AIRPORT AUTHORITY.	B. FINISH: COLOR TO MATCH AIRPORT STANDARD FINISHES IN AREA OF INSTALLATION.
_	SECTION 260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS	C. COVER PLATES: MATERIAL AND COLOR TO MATCH AIRPORT STANDARD FINISHES IN AREA OF INSTALLATION.
	1.1 GENERAL	D. FOOT: SUITABLE FOR FLOOR FINISH.
	A. DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND TAPE LABELS.	E. RECEPTACLES, COMMUNICATIONS AND DATA JACKS AS INDICATED ON DRAWINGS.
	B. INSTALL NAMEPLATES AND TAPE LABELS PARALLEL TO EQUIPMENT LINES.	F. WIRE UTILITY COLUMN WITH 12 AWG COPPER CONDUCTOR TO OUTLET BOX ATTACHED TO TOP OF POLE.
	<ul><li>C. SECURE NAMEPLATES TO EQUIPMENT FRONTS USING SCREWS, RIVETS, OR PERMANENTLY BONDING EPOXY GLUE.</li><li>D. EMBOSSED TAPE OR SELF-STICKING ADHESIVE BACKED NAMEPLATES WILL NOT BE PERMITTED FOR ANY</li></ul>	G. FLEXIBLE CABLE ASSEMBLY WITH CONNECTOR FOR BRANCH CIRCUIT CONNECTORS.
	APPLICATION.	H. TRIM PLATES FOR CLOSING CEILING OPERATIONS.
	1.2 WIRE MARKERS A. DESCRIPTION: TAPE TYPE WIRE MARKERS.	A VERIEV THAT THE INSTALLATION OF CELLING SUSPENSION SYSTEM IS COMPLETE
	B. LOCATIONS: EACH CONDUCTOR AT PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND EACH	B. VERIFY THAT FLOOR COVERING INSTALLATION IS COMPLETE.
	LOAD CONNECTION.	C. VERIFY THAT BRANCH CIRCUIT WIRING INSTALLATION IS COMPLETED, TESTED, AND READY FOR CONNECTION
	INDELIBLE MARKER PEN ON THE EXTERIOR OF THE BOX COVER.	WIRING DEVICES.
С	<ul> <li>D. PROVIDE NAMEPLATES OF MINIMUM LETTER HEIGHT LISTED BELOW:</li> <li>1. PANELBOARDS: 1/4 INCH; IDENTIFY EQUIPMENT DESIGNATION. 1/8 INCH; IDENTIFY VOLTAGE RATING AND SOURCE. INSCRIPTIONS SHALL INDICATE THE PANEL NAME, VOLTAGE, PHASE, WIRE, FEEDER SIZE AND FEEDER SOURCE.</li> <li>2. TRANSFORMERS: 1/4 INCH: IDENTIFY FOUIPMENT DESIGNATION. 1/8 INCH: IDENTIFY PRIMARY AND SECONDARY</li> </ul>	D. VERIFY THAT UTILITY POLES ARE IN THE PREFERRED LOCATIONS AS INDICATED IN THE LATEST VERSION OF TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG). REQUIRED DUE TO SITE CONSTRAINTS, ADJUST UTILITY POLES LOCATIONS WITHIN THE ACCEPTABLE AREAS INDICATED IN THE LATEST VERSION OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG)
	VOLTAGES, PRIMARY SOURCE, AND SECONDARY LOAD AND LOCATION. 3. DEVICE PLATES: USE KORY OR BROTHER TYPE TAPE LABELS ON THE EXTERIOR OF EACH WALL PLATE TO IDENTIFY	1.4 INSTALLATION
	THE CIRCUIT SERVING THE DEVICE. 4. COLOR AND SIZE OF NAMEPLATES SHALL MATCH AIRPORT STANDARDS AND SPECIFICATIONS.	A. INSTALL UTILITY POLE PLUMB AND LEVEL.
	SECTION 262200 - LOW VOLTAGE TRANSFORMERS	SECTION 262726 - WIRING DEVICES
	A. ACCEPTABLE MANUFACTURERS: CUTLER HAMMER, GENERAL ELECTRIC, SQUARE D, SIEMENS, HAMMOND POWER	1.1 MANUFACTURERS - RECEPTACLES
	SOLUTIONS OR PER MANUFACTURER STATED IN AIRPORT STANDARDS AND SPECIFICATIONS.	A. ACCEPTABLE MANUFACTURERS: LEVITON, PASS & SEYMOUR, COOPER WIRING DEVICES, HUBBELL, BRYANT.
	A. DESCRIPTION: NEMA ST 20, FACTORY-ASSEMBLED, AIR-COOLED DRY TYPE TRANSFORMERS. COPPER WINDINGS.	1.2 NEVERIAULES
	RATINGS AS INDICATED.	

3

- DEGREES C RISE. 5 DEGREES C RISE.
- 5 KVA: TWO 5 PERCENT BELOW RATED VOLTAGE, FULL CAPACITY TAPS ON PRIMARY ARGER: TWO 2-1/2% FULL CAPACITY TAPS ABOVE AND FOUR 2-1/2% FULL CAPACITY VOLTAGE.
- MOUNTING. , FLOOR, OR TRAPEZE MOUNTING.
- E FOR FLOOR MOUNTING.
- NIMUM LENGTH, FOR CONNECTIONS TO TRANSFORMER CASE. MAKE CONDUIT ENCLOSURE.
- ORMERS ON VIBRATION ISOLATING PADS SUITABLE FOR ISOLATING THE BUILDING STRUCTURE.
- ARY VOLTAGES AND MAKE APPROPRIATE TAP ADJUSTMENTS.

- SENERAL ELECTRIC, CUTLER-HAMMER, SQUARE D, SIEMENS OR PER ORT STANDARDS AND SPECIFICATIONS.
- BREAKER TYPE, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.
- NGS AS INDICATED. PROVIDE COPPER GROUND BUS IN EACH PANELBOARD. S WHERE SCHEDULED.
- UALLY MOUNTED. BRANCH MOUNTED MAIN BREAKERS WILL NOT BE ALLOWED. CUIT RATING: SHALL BE ADEQUATE FOR THE AVAILABLE FAULT CURRENT AT THE WILL NOT BE ACCEPTABLE.
- S: NEMA AB 1, BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH POLES. DO NOT USE TANDEM CIRCUIT BREAKERS.
- SHALL BE DOOR-IN-HINGED COVER TYPE METAL DIRECTORY FRAME, AND FLUSH YPE STATED IN AIRPORT STANDARDS AND SPECIFICATIONS. FINISH IN AY ENAMEL.
- BOARD; INSTALL PANELBOARDS TALLER THAN 6 FEET WITH BOTTOM NO MORE THAN
- SED SPACES IN PANELBOARDS.
- JRRENTS AT EACH PANELBOARD FEEDER; REARRANGE CIRCUITS IN THE ASE LOADS TO WITHIN 20 PERCENT OF EACH OTHER. MAINTAIN PROPER PHASING
- DRY FOR EACH BRANCH CIRCUIT PANELBOARD. REVISE DIRECTORY TO REFLECT TO BALANCE PHASE LOADS, OR TO INDICATE CHANGES AS THE RESULT OF

## LES

- VIREMOLD, HUBBELL.
- ARTMENTALIZED STEEL OR ALUMINUM CONSTRUCTION. MATERIAL TO MATCH AREA OF INSTALLATION.
- T STANDARD FINISHES IN AREA OF INSTALLATION.
- DLOR TO MATCH AIRPORT STANDARD FINISHES IN AREA OF INSTALLATION.
- AND DATA JACKS AS INDICATED ON DRAWINGS.
- WG COPPER CONDUCTOR TO OUTLET BOX ATTACHED TO TOP OF POLE.
- CONNECTOR FOR BRANCH CIRCUIT CONNECTORS.
- IG OPERATIONS.
- OF CEILING SUSPENSION SYSTEM IS COMPLETE.
- ISTALLATION IS COMPLETE.
- RING INSTALLATION IS COMPLETED, TESTED, AND READY FOR CONNECTION TO
- N THE PREFERRED LOCATIONS AS INDICATED IN THE LATEST VERSION OF THE INISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG). IF INTS, ADJUST UTILITY POLES LOCATIONS WITHIN THE ACCEPTABLE AREAS N OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT UIDE (CRPG).
- LEVEL.

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- A. DESCRIPTION: NEMA WD 1, HEAVY-DUTY GENERAL USE RECEPTACLE.
- B. DEVICE BODY: NYLON FACE. COLOR TO MATCH AIRPORT STANDARD FINISHES FOR AREA OF INSTALLATION.
- C. RECEPTACLE: AS INDICATED ON DRAWINGS.
- 1.3 WALL PLATES

3

A. COVER PLATE: MATERIAL AND COLOR TO MATCH AIRPORT STANDARD FINISHES FOR AREA OF INSTALLATION.

## SECTION 262813 - FUSES

- 1.1 MANUFACTURERS FUSES
- A. ACCEPTABLE MANUFACTURERS: BUSSMANN, LITTELFUSE, GENERAL ELECTRIC, GOULD, RELIANCE.
- 1.2 FUSE REQUIREMENTS
- A. FUSES PROTECTING POWER PANELS AND DRY TYPE TRANSFORMERS SHALL BE DUAL ELEMENT TIME-DELAY TYPE. FUSES SHALL BE AS FOLLOWS (BUSSMANN NUMBERS ARE INDICATED FOR REFERENCE):
- 1. 200 AMPS OR LESS CLASS RK5 FUSETRON FRN-R (250V), FRS-R (600V) 2. 225 AMPS TO 600 AMPS - CLASS J LOW-PEAK LPJ ( 600V)

### SECTION 262819 - ENCLOSED SWITCHES

- 1.1 MANUFACTURERS FUSIBLE AND NON-FUSIBLE SWITCH ASSEMBLIES
- A. ACCEPTABLE MANUFACTURERS: CUTLER HAMMER, GENERAL ELECTRIC, SQUARE D, SIEMENS.
- B. DESCRIPTION: NEMA KS 1, TYPE HD ENCLOSED LOAD INTERRUPTER KNIFE SWITCH. HANDLE LOCKABLE IN OFF POSITION. POSITIVE TYPE INTERLOCK DOOR. HORSEPOWER RATED (NOTE THAT HP RATING OF SWITCH MUST BE EQUAL TO OR GREATER THAN HP RATING OF MOTOR OR EQUIVALENT EQUIPMENT LOADS).
- C. FUSE PROVISIONS ON FUSIBLE SWITCHES: DESIGNED TO ACCOMMODATE NEMA FUN, CLASS R AND J FUSES.
- 1.2 ENCLOSURES
- A. FABRICATION: NEMA KS 1.
- 1. INTERIOR DRY LOCATIONS: TYPE 1. 2. EXTERIOR LOCATIONS: TYPE 3R.

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	1	2
	TELECOMMUNICATION SPECIFICATIONS	2.4 OUTLET FACEPLATES
	SECTION 271513 - COMMUNICATIONS COPPER HORIZONTAL CABLING	A. STANDARD FACEPLATE
	PART 1 GENERAL	1. GENERAL
	1.1 SUMMARY	a. PROVIDE WALL, RECESSED AND FLUSH FLOOR POKE, MONUMENT, MOUNTED FACEPLATES FOR THE
	A. SECTION CONSISTS OF FURNISHING ALL EQUIPMENT, SUPPLIES AND MATERIALS, TOOLS, SERVICES AND FACILITIES	EXISTING CONDITIONS. FACEPLATES SHOWN ON THE DRAWINGS. FACEPLATE COLORS SHALL MATCH ELECTRICAL AND EXISTING CONDITIONS. FACEPLATES SHALL BE COORDINATED WITH TSA AND AIRPORT OFFICIALS.
	AND IN PERFORMING INSTALLATION OF HORIZONTAL CABLING AND OUTLETS IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS, EXCEPT AS SPECIFICALLY NOTED OTHERWISE.	<ul> <li>all unused ports shall be filled with blank inserts.</li> <li>all faceplate types shall provide designation labels with protective clear plastic covers, or</li> </ul>
	B. ALL WORK SHALL COMPLY WITH BICSI, EIA-TIA AND TSA STANDARDS FOR INSTALLATION.	d. DESIGNATION LABELS FOR FACEPLATES SHALL BE TYPED AND NOT HANDWRITTEN.
	C. THE WORK OF THIS SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO INSTALLATION OF THE FOLLOWING:	2. MANUFACTURER:
	1. TELECOMMUNICATIONS CONNECTORS.	a. SIEMON CABLING SOLUTIONS
	<ol> <li>TELECOMMUNICATIONS OUTLETS AND FACEPLATES.</li> <li>CATEGORY 6, UNSHIELDED TWISTED-PAIR HORIZONTAL DATA CABLES.</li> </ol>	<ul><li>b. COMMSCOPE UNIPRISE</li><li>c. OR APPROVED EQUIVALENT.</li></ul>
	1.2 REFERENCES	PART 3 EXECUTION
_	A. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUE OF ALL INDUSTRY STANDARDS,	3.1 CABLE AND CONDUIT INSTALLATION REQUIREMENTS
A	B ANSI/TIA/EIA-568-B 1 AND ADDENDA - COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD PART 1	A. PRIOR TO CUTTING, DRILLING, CORING, OR OTHERWISE DISRUPTING ANY EXISTING STRUCTURAL ENTITY, THE
	GENERAL REQUIREMENTS.	HAZARDOUS MATERIALS SUCH AS ASBESTOS, LEAD BASED PAINTS OR ANY OTHER TYPE OF CONTAMINATED BUILDING MATERIALS
	C. ANSI/TIA/EIA-568-B.2 AND ADDENDA - COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD PART 2 BALANCED TWISTED PAIR	B ALL CEILING AND FLOOR PENETRATIONS MUST BE PROPERLY FIRE-STOPPED TO MAINTAIN THE FIRE RATING PRIOR TO
	D. ANSI/TIA/EIA-568-B.2-1 AND ADDENDA - COMPONENT SPECIFICATIONS AND REFERENCE TO B.1 FOR INSTALLATION	PENETRATIONS.
	GUIDELINES.	C. CONTRACTOR TO COORDINATE ALL PATHWAYS AND PATHWAY DEVICES WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH IN.
	E. ANSI/EIA/TIA-569 B AND ADDENDA - COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.	3.2 TESTING AND VISUAL INSPECTION CABLE INFRASTRUCTURE
	F. ANSI/TIA/EIA-606-A AND ADDENDA - ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE	A. VISUALLY INSPECT CONNECTIONS ON CABLE TO INSURE PROPER COMPLIANCE WITH EIA/TIA 568B TERMINATION.
	OF COMMERCIAL BUILDINGS.	1. CONNECTORS MARKED AS CAT 6 COMPLIANT.
	G. ANSI/TIA/EIA-607-A AND ADDENDA - GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS IN COMMERCIAL BUILDINGS.	<ol> <li>PROPER COLOR-CODING CHECKED ON CONNECTORS.</li> <li>PAIRS SHALL HAVE NO MORE THAN 1/2" OF FACTORY TWIST AT ANY CONNECTING POINT.</li> </ol>
	H. NFPA 70 - NATIONAL ELECTRICAL CODE.	4. OUTER SHEATH SHALL EXTEND BEYOND THE POINT OF PHYSICAL RESTRAINT OR CLAMP ON ANY CONNECT.
	I. TSA STANDARDS AND CHECKPOINT REQUIREMENTS AND PLANNING GUIDE. (CRPG)	B. INSPECT ALL EXPOSED PORTIONS OF THE CABLE TO INSURE A MINIMUM OF 4 TIMES THE CABLE DIAMETER BEND RADIUS AT ANY POINT.
	J. CONTRACTOR TO REFERENCE CONSTRUCTION DRAWINGS FOR PROJECT SPECIFIC SPECIFICATION REQUIREMENTS.	C. ENSURE NO CABLE BUNDLES OR TIE POINTS DISPLAY KINKS, SHARP BENDS, CREASING OR DEFORMATION OF OUTER
	K. CONTRACTOR TO REVIEW TELECOM CABLING ONE LINE DIAGRAM FOR SPECIFIC DEVICE CABLING REQUIREMENTS	SHEATH, OR SIGNS OF EXCESSIVE PULLING FORCE.
	FROM THE TSA CABINET TO EQUIPMENT ENDS, AS WELL AS ANY POINT TO POINT EQUIPMENT CABLING REQUIREMENTS.	D. EQUIP ALL CONDUIT ENDS WITH BUSHING OR OTHER ABRASIONS PREVENTING DEVICES. CAT 6, FIRE RATING, AND UL CLASSIFICATIONS SHALL BE PRESENT ON ALL CABLES.
	L. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ANY SITE SPECIFIC, AIRPORT, CITY AND STATE	E. ENSURE PROPER CABLE IDENTIFICATION NUMBER, WIRING CLOSET, AND OTHER NECESSARY MARKINGS ARE VISIBLE
	INSTALLATION STANDARDS AND CODES. ALL SITE SPECIFIC STANDARDS AND GUIDELINES MAY NOT BE SHOWN ON CONSTRUCTION DRAWING SETS.	AT EACH END OF SINGULAR CABLES AND AT EACH MULTI-PAIR TRANSITION OR CROSS-CONNECTION POINT OR JUMPER. LABELS SHALL BE MADE WITH A FACTORY PRINTER APPROVED FOR THE PURPOSE AND WILL BE PLACED AS
	M. CONTRACTOR TO REFERENCE ELECTRICAL DRAWINGS FOR PATHWAY DEVICE SPECIFICATIONS AND COORDINATION.	CLOSE AS PRACTICABLE TO THE TERMINATION POINT AT EACH END (NOT MORE THAN 2 INCHES FROM END OF THE SHEATH AND THE EXPOSED TWISTED PAIR). PRINTED INFORMATION ON LABEL SHOULD FACE UPWARD FOR EASE OF
	1.3 INSTALLATION	READING.
	A. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN	3.3 CERTIFICATION REQUIREMENTS
	COMPLIANCE WITH TIA/EIA CATEGORY 6 TELECOMMUNICATIONS STANDARDS, AS SPECIFIED IN THE REFERENCES SECTION.	A. ALL EXISTING CATEGORY CAT 6 CABLE MUST BE TESTED AND SHALL BE IN COMPLIANCE TO CAT 6 STANDARDS AS PER TIA/EIA TSB 67. CATEGORY 6 CABLE SHALL BE IN COMPLIANCE TO 6 STANDARDS AS PER TIA/EIA TSB 67. ALL CABLE
	B. THE INSTALLATION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE NEC, OSHA	TESTING SHALL BE ACCOMPLISHED WITH A LEVEL 2-TEST SET CAPABLE OF 250 MHZ OR HIGHER FOR CERTIFICATION.
	AND THE RULES, REGULATIONS AND REQUIREMENTS OF THE FCC.	
	AND CODES APPLICABLE TO THE INSTALLATION.	A. TESTING WILL INVOLVE ALL FIBER OF TIC MATERIAL AND COMPONENTS COMPRISING THE BACKBONE STSTEM. TESTING SHOULD INCLUDE ALL LC CONNECTING HARDWARE IN THE IDFS AND MDF. ACCEPTABLE LEVELS OF ATTENUATION FOR TERMINATED FIRER CARLES ARE DEFINED AS THOSE THAT ARE FOUND. TO OR FALL BELOW.
B	D. THE LOCATIONS OF STUB-UPS, OUTLETS, PANELS, EQUIPMENT RACKS AND OTHER RELATED PRODUCTS AS INDICATED ON THE DRAWINGS ARE APPROXIMATELY CORRECT AND ARE UNDERSTOOD TO BE SUBJECT TO SUCH REVISION AS	EXPECTED LEVELS. EXPECTED LEVELS ARE DETERMINED BY CALCULATING THE ATTENUATION OF THE CABLE
	MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION. CONTRACTOR SHOULD HAVE PRECISE AND DEFINITE LOCATIONS ACCEPTED BY THE OWNER BEFORE PROCEEDING WITH THE INSTALLATION	LOSS FOR EACH PAIR OF MATED LC CONNECTORS. IF ATTENUATION VALUES OF THE EQUIPMENT ARE IN EXCESS, THE INSTALLER WILL CORRECT AND RETEST
	E. HORIZONTAL CABLING SHALL NOT BE SPLICED BUT MUST BE CONTINUOUS FROM THE TSA IT CABINET TO THE DEVICE	B. TEST ALL FIBERS IN BOTH DIRECTIONS. THE PROPER TOOL TO PERFORM FIBER OPTIC TESTING IS AN OPTICAL TIME
	EQUIPMENT END.	DOMAIN REFLECTOMETER (OTDR) OR APPROVED OPTICAL LOSS TEST SET OPERATING AT BOTH 1310 AND 1550 NM WAVELENGTH.
	F. THE PROXIMITY OF HORIZONTAL CABLING TO ELECTRICAL FACILITIES THAT GENERATE HIGH LEVELS OF ELECTROMAGNETIC INTERFERENCE (EMI) SHALL BE TAKEN INTO ACCOUNT. THESE FACILITIES INCLUDE, BUT ARE NOT	SECTION 281300 - ACCESS CONTROL
	LIMITED TO COPIERS, MOTORS, TRANSFORMERS AND FLUORESCENT LIGHTING. TIA/EIA 569 STANDARDS SHALL PROVIDE SEPARATION REQUIREMENTS.	PART 1 GENERAL
	G. THE MAXIMUM PULLING TENSIONS FOR 4-PAIR, 24 AWG HORIZONTAL UTP CABLES SHOULD NOT EXCEED 25 POUNDS	1.1 SUMMARY
	PER CABLE.	A. SECTION INCLUDES SECURITY DURESS DEVICES AND CONTROL PANEL, AND SIGNAL AND CONTROL WIRING.
	H. ALL HORIZONTAL CABLES SHALL BE TERMINATED ACCORDING TO THE TIA/EIA T568B WIRING SCHEME.	B. ALL WORK SHALL COMPLY WITH BICSI, EIA-TIA AND TSA STANDARDS FOR INSTALLATION.
	<ol> <li>THE CONNECTING HARDWARE USED SHALL BE INSTALLED TO PROVIDE MINIMAL SIGNAL IMPAIRMENT BY PRESERVING WIRE PAIR TWISTS AS CLOSELY AS POSSIBLE TO THE POINT OF MECHANICAL TERMINATION. THE AMOUNT OF</li> </ol>	1.2 REFERENCES
	UNTWISTING IN A PAIR AS A RESULT OF TERMINATION TO CONNECTING HARDWARE SHALL BE NO GREATER THAN 0.25 INCHES.	A. NATIONAL FIRE PROTECTION ASSOCIATION:
	PART 2 PRODUCTS	1. NFPA 262 - STANDARD METHOD OF TEST FOR FLAME TRAVEL AND SMOKE OF WIRES AND CABLES FOR USE IN
	2.1 GENERAL	AIR-HANDLING SPACES. 2. NFPA 70 - NATIONAL ELECTRIC CODE
	A. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE DURING STORAGE AT THE SITE AND THROUGHOUT THE	
	AGAINST PHYSICAL DAMAGE, DIRT, MOISTURE, COLD AND RAIN. IF ITEMS ARE DAMAGED, DO NOT INSTALL, BUT TAKE	
	2.2 HORIZONTAL CABLING	D. TSA STANDARDS AND CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG)
	A GENERAL	E. CONTRACTOR TO REFERENCE CONSTRUCTION DRAWINGS FOR PROJECT SPECIFIC SPECIFICATION REQUIREMENTS
	1. THE CABLE SHALL MEET ALL REQUIREMENTS OF ANSI/TIA/FIA-568B.	1.3 SYSTEM DESCRIPTION
	<ol> <li>THE CABLE SHALL MEET ALL REQUIREMENTS OF ANSI/ICEA PUBLICATION S-80-576 THAT ARE APPLICABLE TO FOUR-PAIR INSIDE WIRING CABLE FOR PLENUM WITHIN A BUILDING.</li> </ol>	A. SECURITY ACCESS SYSTEM: PANIC AND DURESS BUTTONS LOCATED ON EACH X-RAY LANE FOR USE BY TSA
	<ol> <li>HORIZONTAL DATA CABLING SHALL BE CATEGORY 6, 4-PAIR UTP CABLING WITH MANUFACTURES TRANSMISSION CHARACTERISTICS SPECIFIED UP TO 250 MHZ.</li> </ol>	PERSONNEL IN THE EVENT OF AN EMERGENCY.
	4. PLENUM RATED CABLE SHALL BE USED IN PLENUM RATED SPACES.	B. CONTRACTOR TO USE EXISTING DEVICES AND WIRING WHEREVER POSSIBLE.
	B. MANUFACTURER:	1.4 QUALITY ASSURANCE
	1. SIEMON CABLING SOLUTIONS 2. COMMSCOPE UNIPRISE	A. PROVIDE WIRING MATERIALS LOCATED IN PLENUMS WITH PEAK OPTICAL DENSITY NOT GREATER THAN 0.5, AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND FLAME SPREAD NOT GREATER THAN 5 FEET (1.5 M) WHEN TESTED IN
С	3. OR APPROVED EQUIVALENT.	ACCORDANCE WITH NFPA 262.
	2.3 TELECOMMUNICATION OUTLET/CONNECTIONS	B. PERFORM WORK IN ACCORDANCE WITH NEC, LOCAL CITY, BICSI, AND MANUFACTURER'S REQUIREMENTS.
	THE TELECOMMUNICATIONS OUTLET/CONNECTORS SHALL CONSIST OF 8-POSITION, MODULAR RJ-45 JACKS FOR     DATA AND VOICE.	D. CONTRACTOR TO ENSURE MATCHING SYSTEM DEVICES AND COMPLETE INTEGRATION AND FUNCTIONALITY INTO CURRENT AIRPORT SYSTEM.
	2. ALL OUTLETS SHALL BE PRODUCED BY THE SAME MANUFACTURER AND SHALL BE DESIGNED TO SNAP INTO AND OUT OF THE FACEPLATE.	1.5 QUALIFICATIONS
	3. THE OUTLETS SHALL TERMINATE THE HORIZONTAL CABLES USING INSULATION DISPLACEMENT TYPE CONTACTS (IDC).	A. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM
	4. THE OTTLETS SHALL SUPPORT HAVE A 1300D COLOR-COULING FOR TERMINATING THE HORIZONTAL CABLES. 5. THE VOICE AND DATA OUTLETS SHALL BE HIGH-DENSITY MODULAR JACKS FOR HIGH-SPEED NETWORK ADDUCATIONS USING DATA TRANSMISSION BATES WITH EDEOUTNOTED UP TO 350 MUTZ	
	6. THE OUTLETS SHALL BE ANSI/TIA/EIA 568B CERTIFIED AND FULLY COMPLY WITH ANSI/TIA/EIA- 568B TRANSMISSION REQUIREMENTS	B. INGTALLEN, GENTIFIED GEGUNTET STSTEIN INSTALLER WITH SERVICE FACILITIES WITHIN 100 MILES UP PROJECT.
	7. MANUFACTURER:	
	a. SIEMON CABLING SOLUTIONS b. COMMSCOPE UNIPRISE	
	c. OR APPROVED EQUIVALENT	

- PART 2 PRODUCTS
- 2.1 PANIC DURESS BUTTONS
- A. MANUFACTURERS:
- 1. MATCH EXISTING CONDITIONS.
- 2. OR APPROVED EQUIVALENT.
- 2.2 WIRE AND CABLE
- A. MANUFACTURERS:
- 1. BELDEN
- WEST PENN 3. OR APPROVED EQUIVALENT.
- PART 3 EXECUTION
- 3.1 INSTALLATION.
- A. INSTALL CONDUIT AND WIRING CONNECTIONS TO PANIC AND DURESS DEVICES.
- 3.2 FIELD QUALITY CONTROL
- A. TEST IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
- SECTION 282300 VIDEO SURVEILLANCE

- 1.1 SUMMARY
- A. SECTION INCLUDES STATIONARY CAMERAS, CONTROL EQUIPMENT, AND ACCESSORIES.(NEW)
- B. RE-POSITION EXISTING CAMERA LOCATIONS TO MEET THE LANE ADJUSTMENTS TO ENSURE PROPER LANE COVERAGE.
- C. ALL WORK SHALL COMPLY WITH BICSI, EIA-TIA AND TSA STANDARDS FOR INSTALLATION.
- 1.2 REFERENCES
- A. TSA STANDARDS AND CHECKPOINT REQUIREMENTS AND PLANNING GUIDE. (CRPG)
- B. CONTRACTOR TO REFERENCE CONSTRUCTION DRAWINGS FOR PROJECT SPECIFIC SPECIFICATION REQUIREMENTS.
- A. DESCRIPTION: VIDEO SURVEILLANCE AND MONITORING AT POINTS AS INDICATED ON DRAWINGS.
- B. CAPACITY:
- 1. CAMERAS: TBD. 2. MONITORS: DISTRIBUTED OVER NETWORK, AS REQUIRED.
- C. CONFIGURATION: ALL CAMERAS SHALL MATCH EXISTING AIRPORT SYSTEMS.
- D. CONTRACTOR/INTEGRATOR SHALL BE RESPONSIBLE FOR INTEGRATING NEW DEVICES INTO EXISTING SYSTEMS, INCLUDING ADDED STORAGE CAPACITIES AND HEADEND UPGRADES IF NEEDED.
- 1.4 QUALIFICATIONS
- A. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS EXPERIENCE, AND WITH SERVICE FACILITIES WITHIN 100 MILES OF PROJECT.
- B. INSTALLER: AUTHORIZED INSTALLER OF SPECIFIED MANUFACTURER WITH SERVICE FACILITIES WITHIN 100 MILES OF PROJECT.
- 1.5 ENVIRONMENTAL REQUIREMENTS
- A. CONFORM TO MANUFACTURER'S STANDARD SERVICE CONDITIONS DURING AND AFTER INSTALLATION OF COMPONENTS.
- 1.6 FIELD MEASUREMENTS
- A. VERIFY FIELD MEASUREMENTS PRIOR TO FABRICATION.
- 1.7 MAINTENANCE SERVICE
- 1.8 MAINTENANCE OF VIDEO SURVEILLANCE SYSTEM FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

### PART 2 PRODUCTS

- 2.1 CAMERAS
- A. MANUFACTURERS:
- 1. AXIS
- 2. PELCO 3. OR APPROVED EQUIVALENT.
- B. PRODUCT DESCRIPTION: GENERAL PURPOSE VIDEO CAMERA FOR INTERIOR APPLICATIONS.
- C. HOUSING: ALL HOUSINGS SHALL BE DOME STYLE, WITH ENVIRONMENTAL ENCLOSURES FOR GARAGE AND EXTERIOR LOCATIONS.
- PART 3 EXECUTION
- 3.1 INSTALLATION
- A. GROUND AND BOND VIDEO SURVEILLANCE EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATION.
- 3.2 ADJUSTING
- A. ADJUST MANUAL LENS IRISES TO MEET LIGHTING CONDITIONS. AIM CAMERAS FOR OPTIMUM COVERAGE AND PER OWNER'S REQUIREMENTS

END OF SECTION

- FILLED WITH BLANK INSERTS. PROVIDE DESIGNATION LABELS WITH PROTECTIVE CLEAR PLASTIC COVERS, OR INTIFICATION. CEPLATES SHALL BE TYPED AND NOT HANDWRITTEN.

- REQUIREMENTS
- , OR OTHERWISE DISRUPTING ANY EXISTING STRUCTURAL ENTITY, THE ITH THE AIRPORT AND TSA TO DETERMINE IF THERE IS THE PRESENCE OF ANY BESTOS, LEAD BASED PAINTS OR ANY OTHER TYPE OF CONTAMINATED BUILDING
- ONS MUST BE PROPERLY FIRE-STOPPED TO MAINTAIN THE FIRE RATING PRIOR TO **PART 1** GENERAL
- PATHWAYS AND PATHWAY DEVICES WITH THE ELECTRICAL CONTRACTOR PRIOR
- BLE INFRASTRUCTURE
- N CABLE TO INSURE PROPER COMPLIANCE WITH EIA/TIA 568B TERMINATION.
- COMPLIANT. D ON CONNECTORS.
- N 1/2" OF FACTORY TWIST AT ANY CONNECTING POINT. EYOND THE POINT OF PHYSICAL RESTRAINT OR CLAMP ON ANY CONNECT.
- THE CABLE TO INSURE A MINIMUM OF 4 TIMES THE CABLE DIAMETER BEND
- POINTS DISPLAY KINKS, SHARP BENDS, CREASING OR DEFORMATION OF OUTER JLLING FORCE.
- HING OR OTHER ABRASIONS PREVENTING DEVICES. CAT 6, FIRE RATING, AND UL T ON ALL CABLES.
- ION NUMBER, WIRING CLOSET, AND OTHER NECESSARY MARKINGS ARE VISIBLE AND AT EACH MULTI-PAIR TRANSITION OR CROSS-CONNECTION POINT OR TH A FACTORY PRINTER APPROVED FOR THE PURPOSE AND WILL BE PLACED AS MINATION POINT AT EACH END (NOT MORE THAN 2 INCHES FROM END OF THE PAIR). PRINTED INFORMATION ON LABEL SHOULD FACE UPWARD FOR EASE OF
- E MUST BE TESTED AND SHALL BE IN COMPLIANCE TO CAT 6 STANDARDS AS PER SHALL BE IN COMPLIANCE TO 6 STANDARDS AS PER TIA/EIA TSB 67. ALL CABLE VITH A LEVEL 2-TEST SET CAPABLE OF 250 MHZ OR HIGHER FOR CERTIFICATION.
- TIC MATERIAL AND COMPONENTS COMPRISING THE BACKBONE SYSTEM. ONNECTING HARDWARE IN THE IDFS AND MDF. ACCEPTABLE LEVELS OF ER CABLES ARE DEFINED AS THOSE THAT ARE EQUAL TO OR FALL BELOW S ARE DETERMINED BY CALCULATING THE ATTENUATION OF THE CABLE PECIFICATIONS (AND ITS KNOWN LENGTH) AND BY ADDING TO THAT CALUE 0.8 DB CONNECTORS. IF ATTENUATION VALUES OF THE EQUIPMENT ARE IN EXCESS, THE
- THE PROPER TOOL TO PERFORM FIBER OPTIC TESTING IS AN OPTICAL TIME APPROVED OPTICAL LOSS TEST SET OPERATING AT BOTH 1310 AND 1550 NM
- SS DEVICES AND CONTROL PANEL, AND SIGNAL AND CONTROL WIRING. GI, EIA-TIA AND TSA STANDARDS FOR INSTALLATION.
- ATION:
- F TEST FOR FLAME TRAVEL AND SMOKE OF WIRES AND CABLES FOR USE IN DE
- OMMUNICATIONS SPECIFICATIONS)
- REQUIREMENTS AND PLANNING GUIDE. (CRPG)
- TRUCTION DRAWINGS FOR PROJECT SPECIFIC SPECIFICATION REQUIREMENTS.
- ND DURESS BUTTONS LOCATED ON EACH X-RAY LANE FOR USE BY TSA
- ICES AND WIRING WHEREVER POSSIBLE.
- ED IN PLENUMS WITH PEAK OPTICAL DENSITY NOT GREATER THAN 0.5, AVERAGE AN 0.15, AND FLAME SPREAD NOT GREATER THAN 5 FEET (1.5 M) WHEN TESTED IN
- TH NEC, LOCAL CITY, BICSI, AND MANUFACTURER'S REQUIREMENTS.
- MENT ON SITE.
- SYSTEM DEVICES AND COMPLETE INTEGRATION AND FUNCTIONALITY INTO
- IZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM ENCE.
- STEM INSTALLER WITH SERVICE FACILITIES WITHIN 100 MILES OF PROJECT.

- 1.3 SYSTEM DESCRIPTION

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	<b>Solution</b> <b>Lockwood, Andrew</b> <b>&amp; Newnam, Inc.</b>	<b>WS</b>
292 Hou Tel Fax	25 Briarpark Drive uston, Texas 77042 713—821—2100 x 713—266—7182	A
	INTERIM REVIEW ONLY Document incomplete: not intended for regulatory approval, permit, or construction. MASON D. MCINTIRE Engineer 123527 Registration Number 05/10/22 Date	
S II A	<b>MQT</b> SAWYER NTERNATIONAL AIRPORT	
	U.S. DEPARTMENT OF HOMELAND SECURITY 601 SOUTH 12TH STREET, ARLINGTON, VA 22202	B
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7.



EL			LOCATIC	<b>N</b>	10' FROM	I LANE 1				
60	AMPS		MOUNTI	NG	SURFAC	Ъ	-			
60	AMPS									
0000 AIC										
KT.	V	OLT AMP	S	BREAK	ER	LOAD				
NO.	Α	B	C	POLE	AMP	AMP	DESCRIPTION	CIRCUIT		
2	55			1	20	0.5	WTMD	20-2		
4		1800		1	20	15.0	AT LANE 1	20-2		
6			710	1	20	5.9	AVS/BLS/ETD	20-2		
8	500	I		1	20	4.2	EXISTING LOAD	20-2		
10		360	L	1	30	3.0	PRIVATE SCREEN RM	30-2		
12	L			1	30	0.0	SPARE			
14	1000	I		2	30	9.6		30.2		
16		1000	L	2	00	5.0		JU-2		
18	L					0.0	SPACE			
20		l				0.0	SPACE			
22	[]		L			0.0	SPACE			
24						0.0	SPACE			
		T	OTAL CO	NNECTE	D LOAD:	6.1	KVA			
28.8	AMPS	ES	TIMATED	) DEMAN	D LOAD:	6.1	KVA			
		ES	TIMATEC	) DEMAN	D LOAD:	<mark>16.</mark> 9	AMPS			

PHASE BUS RATING NEUTRAL BUS RATING SHORT CIRCUIT RATING       60 AMPS       MOUNTING       SURFACE         OLT AMPS       CKT.       OKT.       VOLT AMPS       BREAKER       LOAD       DESCRIPTION       CIRCUIT         01       2       500       1       20       4.2       LANE 1 - PVS (5-20R DUPLEX)       20-2         01       1       2       500       1       20       4.2       LANE 1 - PVS (5-20R DUPLEX)       20-2         01       2       30       4       1920       1       20       4.2       LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)       20-2         01       3       4       1920       1       20       16.0       LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)       20-2         01       360       1       20       16.0       LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)       20-2         70       9       10       360       1       30       3.0       LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)       20-2         710       9       100       2800       1       30       2.3       LANE 1 - CREENING ROOM (5-20R DUPLEX)       30-2         13       14       1000       2       30       9.6       IT CABINET       30-2	TYPE BRANCH CIRCUIT PANEL							LOCATION 10' F		10' FROI	M LANE 1	1		
NEUTRAL BUS RATING SHORT CIRCUIT RATING         60 10000 AIC         AMPS 10000 AIC         Constrained Constrai	PHASE BUS RATING 60 AMPS			MOUNTING		SURFACE								
SHORT CIRCUIT RATING 10000 AIC         OLT AMPS       CKT.       CKT.       VOLT AMPS       BREAKER       LOAD       CIRCUIT         B       C       NO.       A       B       C       POLE       AMP       DESCRIPTION       CIRCUIT         B       C       NO.       A       B       C       POLE       AMP       DESCRIPTION       CIRCUIT         B       C       NO.       A       B       C       POLE       AMP       DESCRIPTION       CIRCUIT         1       1       2       500       1       20       4.2       LANE 1 - PVS (5-20R DUPLEX)       20-2         3       4       1920       1       20       5.9       LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)       20-2         360       5       6       710       1       20       3.0       LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)       20-2         710       9       10       360       1       30       3.0       PRIVATE SCREENING ROOM (5-20R DUPLEX)       20-2         710       9       10       2800       1       30       23.3       LANE 1 - CT SCANNER (L5-30R)       30-2         13       14       1000       2       30 </td <td></td> <td>NEUTRA</td> <td>L BUS R</td> <td>ATING</td> <td></td> <td>60</td> <td>AMPS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		NEUTRA	L BUS R	ATING		60	AMPS							
OLT AMPS         CKT.         CKT.         VOLT AMPS         BREAKER         LOAD         AMP         DESCRIPTION         CIRCUIT           B         C         NO.         A         B         C         POLE         AMP         AMP         AMP         DESCRIPTION         CIRCUIT           1         2         500         1         20         4.2         LANE 1 - PVS (5-20R DUPLEX)         20-2         20-2           3         4         1920         1         20         16.0         LANE 1 - AIX (5-20R SIMPLEX)         20-2           360         5         6         710         1         20         5.9         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           710         9         10         360         1         30         3.0         PRIVATE SCREENING ROOM (5-20R DUPLEX)         20-2           710         9         100         2800         1         30         23.3         LANE 1 - CT SCANNER (L5-30R)         30-2           13         14         1000         2         30         9.6         IT CABINET         30-2           19         20          0.0         SPACE          0.0         SPACE		SHORT (	CIRCUIT F	RATING		10000	AIC							
OLT AMPS         CKT.         VOLT AMPS         BREAKER         LOAD         DESCRIPTION         CIRCUIT           B         C         NO.         A         B         C         POLE         AMP         AMP         DESCRIPTION         CIRCUIT           1         2         500         1         20         4.2         LANE 1 - PVS (5-20R DUPLEX)         20-2           3         4         1920         1         20         16.0         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           360         5         6         710         1         20         5.9         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           7         8         360         1         20         3.0         LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)         20-2           710         9         10         360         1         30         3.0         PRIVATE SCREEN RM         30-2           55         11         12         2800         1         30         23.3         LANE 1 - CT SCANNER (L5-30R)         30-2           13         14         1000         2         30         9.6         IT CABINET         30-2           17         18         0.00         <												-		
B         C         NO.         A         B         C         POLE         AMP         AMP         DESCRIPTION         CIRCUIT           1         1         2         500         1         20         4.2         LANE 1 - PVS (5-20R DUPLEX)         20-2           3         4         1920         1         20         4.2         LANE 1 - AIT (5-20R SIMPLEX)         20-2           360         5         6         710         1         20         5.9         LANE 1 - AIT (5-20R SIMPLEX)         20-2           70         8         360         1         20         5.9         LANE 1 - AIT (5-20R DUPLEX)         20-2           710         9         100         360         1         20         3.0         LANE 1 - AIT (5-20R DUPLEX)         20-2           710         9         100         360         1         30         2.3         LANE 1 - CT SCANNER (L5-30R DUPLEX)         20-2           13         14         1000         2         30         23.3         LANE 1 - CT SCANNER (L5-30R)         30-2           17         18         0.00         SPACE         0.0         SPACE         1         30-2           23         24         0.0	<b>V</b> (	OLT AMP	S	CKT.		CKT.	V	OLT AMP	MPS BREA		KER LOA			
1         2         500         1         20         4.2         LANE 1 - PVS (5-20R DUPLEX)         20-2           3         4         1920         1         20         16.0         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           360         5         6         710         1         20         5.9         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           7         8         360         1         20         3.0         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           710         9         10         360         1         30         3.0         PRIVATE SCREEN RM         30-2           55         11         12         2800         1         30         23.3         LANE 1 - CT SCANNER (L5-30R)         30-2           15         16         1000         2         30         9.6         IT CABINET         30-2           17         18         0.0         SPACE         0.0         SPACE         0.0         SPACE         0.0           19         20         0.0         SPACE         0.0         SPACE         0.0         SPACE         0.0           23         24         0.0         SPACE         0.0		В	С	NO.		NO.	Α	В	С	POLE	AMP	AMP	DESCRIPTION	CIRCUIT
3         4         1920         1         20         16.0         LANE 1 - AIT (5-20R SIMPLEX)         20-2           360         5         6         710         1         20         5.9         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           7         8         360         1         20         3.0         LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)         20-2           710         9         10         360         1         30         3.0         PRIVATE SCREEN RM         30-2           55         11         12         2800         1         30         23.3         LANE 1 - CT SCANNER (L5-30R)         30-2           13         14         1000         2         30         9.6         IT CABINET         30-2           15         16         1000         2         30         9.6         IT CABINET         30-2           17         18         0.00         SPACE         0.0         SPACE         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100				1		2	500			1	20	4.2	LANE 1 - PVS (5-20R DUPLEX)	20-2
360         5         6         710         1         20         5.9         LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)         20-2           710         9         10         1         20         3.0         LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)         20-2           710         9         10         360         1         30         3.0         PRIVATE SCREEN RM         30-2           55         11         12         2800         1         30         23.3         LANE 1 - CT SCANNER (L5-30R)         30-2           13         14         1000         2         30         9.6         IT CABINET         30-2           15         16         1000         2         30         9.6         IT CABINET         30-2           17         18         0         0.0         SPACE         0.0         SPACE         0.0           21         22         0         0.0         SPACE         0.0         SPACE         0.0           23         24         0         0.0         SPACE         0.0         SPACE         0.0				3		4		1920		1	20	16.0	LANE 1 - AIT (5-20R SIMPLEX)	20-2
7         8         360         1         20         3.0         LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)         20-2           710         9         10         360         1         30         3.0         PRIVATE SCREEN RM         30-2           55         11         12         2800         1         30         23.3         LANE 1 - CT SCANNER (L5-30R)         30-2           13         14         1000         2         30         9.6         IT CABINET         30-2           15         16         1000         2         30         9.6         IT CABINET         30-2           19         20         0.0         SPACE         0.0         SPACE         0.0         SPACE           19         20         0.0         SPACE         0.0         SPACE         0.0         SPACE           233         24         0.0         SPACE         0.0         SPACE         0.0         SPACE           MAXIMUM PHASE CURRENT:         33.2         AMPS         ESTIMATED DEMAND LOAD:         10.0         KVA           ESTIMATED DEMAND LOAD:         10.0         KVA         27.6         AMPS         27.6			360	5		6			710	1	20	<mark>5.9</mark>	LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)	20-2
710       9       10       360       1       30       3.0       PRIVATE SCREEN RM       30-2         55       11       12       2800       1       30       23.3       LANE 1 - CT SCANNER (L5-30R)       30-2         13       14       1000       2       30       9.6       IT CABINET       30-2         15       16       1000       2       30       9.6       IT CABINET       30-2         17       18       0.0       SPACE       30-2       30-2       30-2         19       20       0.0       SPACE       1000       100				7		8	360			1	20	3.0	LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)	20-2
55       11       12       2800       1       30       23.3       LANE 1 - CT SCANNER (L5-30R)       30-2         13       14       1000       2       30       9.6       IT CABINET       30-2         15       16       1000       2       30       9.6       IT CABINET       30-2         17       18       0.0       SPACE       0.0       SPACE       0.0         19       20       0.0       SPACE       0.0       SPACE       0.0         21       22       0       0.0       SPACE       0.0       SPACE       0.0         23       24       0       0.0       SPACE       0.0       SPACE       0.0       SPACE       0.0         23       24       0       0.0       SPACE		710		9		10		360		1	30	3.0	PRIVATE SCREEN RM	30-2
13       14       1000       2       30       9.6       IT CABINET       30-2         15       16       1000       2       30       9.6       IT CABINET       30-2         17       18       0.00       SPACE       0.0       SPACE       0.0       SPACE         19       20       0.00       SPACE       0.00       SPACE       0.00       SPACE         23       24       0.00       SPACE       0.00       SPACE       0.00       SPACE         MAXIMUM PHASE CURRENT:       33.2 AMPS       TOTAL CONNECTED LOAD:       10.0 KVA       10.0 KVA         ESTIMATED DEMAND LOAD:       27.6 AMPS       10.0 KVA       27.6 AMPS			55	11		12			2800	1	30	23.3	LANE 1 - CT SCANNER (L5-30R)	30-2
15     16     1000     2     00     0.0     SPACE       17     18     0.0     SPACE     0.0     SPACE       19     20     0.0     SPACE     0.0       21     22     0.0     SPACE     0.0       23     24     0.0     SPACE     0.0				13		14	1000			2	30	9.6	IT CABINET	30-2
17       18       0.0       SPACE         19       20       0.0       SPACE         21       22       0.0       SPACE         23       24       0.0       SPACE         TOTAL CONNECTED LOAD: 10.0 KVA         MAXIMUM PHASE CURRENT: 33.2 AMPS         STIMATED DEMAND LOAD: 10.0 KVA         ESTIMATED DEMAND LOAD: 27.6 AMPS				15		16		1000		2	90	0.0		00 2
19     20     0.0     SPACE       21     22     0.0     SPACE       23     24     0.0     SPACE         MAXIMUM PHASE CURRENT:     33.2 AMPS     TOTAL CONNECTED LOAD:     10.0     KVA       ESTIMATED DEMAND LOAD:     10.0     KVA	_			17		18						0.0	SPACE	
21     22     0.0     SPACE       23     24     0.0     SPACE         MAXIMUM PHASE CURRENT:     33.2     AMPS         TOTAL CONNECTED LOAD:     10.0       KVA       ESTIMATED DEMAND LOAD:     10.0       KVA				19		20						0.0	SPACE	
23     24     0.0     SPACE       MAXIMUM PHASE CURRENT:     33.2 AMPS     TOTAL CONNECTED LOAD:     10.0 KVA       ESTIMATED DEMAND LOAD:     10.0 KVA       ESTIMATED DEMAND LOAD:     27.6 AMPS				21		22						0.0	SPACE	
MAXIMUM PHASE CURRENT:       33.2 AMPS       TOTAL CONNECTED LOAD:       10.0 KVA         ESTIMATED DEMAND LOAD:       10.0 KVA         ESTIMATED DEMAND LOAD:       27.6 AMPS				23		24						0.0	SPACE	
MAXIMUM PHASE CURRENT:       33.2 AMPS       ESTIMATED DEMAND LOAD:       10.0 KVA         ESTIMATED DEMAND LOAD:       27.6 AMPS														
MAXIMUM PHASE CURRENT: 33.2 AMPS ESTIMATED DEMAND LOAD: 10.0 KVA ESTIMATED DEMAND LOAD: 27.6 AMPS								Т	OTAL CO	NNECTE	D LOAD:	10.0	KVA	
ESTIMATED DEMAND LOAD: 27.6 AMPS	N	IAXIMUM	PHASE	CURREN	IT:	33.2	AMPS	ES	TIMATED	DEMAN	ID LOAD:	10.0	KVA	
								ES	TIMATED	DEMAN	ID LOAD:	27.6	AMPS	

