



ORANGE COUNTY AIRPORT (MGJ) PROPOSED SNOW REMOVAL EQUIPMENT (SRE) BUILDING. ----



CONTRACT DRAWINGS FOR CONSTRUCTION OF THE **SNOW REMOVAL EQUIPMENT STORAGE BUILDING**

ORANGE COUNTY AIRPORT



PLAN NORTH

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500 DUNN ROAD MONTGOMERY NY 12549

C&S PROJECT NO. 104.120.001 FAA PROJECT NO. 3-36-0059-043-2019 NYSDOT PIN NO. 8903.56

FEBRUARY 2021

RE-BID DOCUMENTS





TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THE PLANS AND SPECIFICATIONS FOR THIS PROJECT ARE IN COMPLIANCE WITH THE NEW YORK STATE ENERGY CONSERVATION **CONSTRUCTION CODE AND THE BUILDING CODE OF NEW YORK** STATE

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

G-001





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	1.	AT THE COMPLETION OF WORK IN ANY CONSTRUCTION PERIOD AND THIRTY (30) MINUTES PRIOR TO THE SCHEDULED OPENING OF THE DESIGNATED AIRFIELD FACILITIES, AN INSPECTION TO DETERMINE WHETHER THE RESPECTIVE AIRPORT FACILITIES ARE IN THE APPROPRIATE CONDITION TO BE OPENED SHALL BE PERFORMED BY AIRPORT OPERATIONS. THE CONTRACTORS CONSTRUCTION SUPERVISOR MUST BE PRESENT DURING THIS INSPECTION. THE CONTRACTOR SHALL HAVE STAFF AND EQUIPMENT AVAILABLE TO QUICKLY CORRECT ANY DEFICIENCIES PRIOR TO THE DESIGNATED OPENING TIME.			
	2.	TAXIWAY "E" WILL REMAIN ACTIVE FOR AIRCRAFT TAXIING FOR THE DURATION OF THE PROJECT. THE CONTRACTOR IS ADVISED TO USE EXTREME CAUTION AT ALL TIMES, BUT IN PARTICULAR DURING CONSTRUCTION ON AND ADJACENT TO TAXIWAY "E".			
С	3.	WORK AREAS WILL BE CLOSED TO AIRCRAFT AND SHALL BE BARRICADED OFF USING LOW-PROFILE AVIATION BARRICADES.			
	4.	THE SEQUENCE OF CONSTRUCTION WORK AREAS AND THE CONTRACTOR'S ASSOCIATED CONSTRUCTION SHALL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING AND SHALL BE COMMUNICATED TO THE ENGINEER AND AIRPORT AT EACH WEEK'S PROGRESS MEETING.			
	5.	THE CONTRACTOR SHALL DELINEATE THE TAXIWAY SAFETY AREA (TSA) OF ACTIVE PAVEMENTS ADJACENT TO ACTIVE CONSTRUCTION WORK AREAS. DELINEATION CAN BE FLAGS OR BARRICADES OR OTHER MEANS APPROVED BY AIRPORT OPERATIONS.			
	6.	CONTRACTOR SHALL NOTIFY THE ENGINEER AND AIRPORT 72 HOURS PRIOR TO START OF WORK / CLOSURE IN ORDER TO ESTABLISH A NOTICE TO AIRMEN (NOTAM).			
	7.	ALLOWABLE CONSTRUCTION DURATION: WORK AREA I:110 CALENDAR DAYS. WORK AREA II: 10 CALENDAR DAYS. TOTAL CONSTRUCTION TIME OF COMPLETION IS120 CALENDAR DAYS FROM THE DATE ON THE NOTICE TO PROCEED, EXCUSIVE OF MATERIALS ORDERING AND DELIVERY TIME.			
	8.	REFER TO THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) FOR DETAILED REQUIREMENTS.			
	9.	PRIOR TO RE-OPENING A CLOSED TAXIWAY, THE ASSOCIATED SAFETY AREA AND TAXIWAY PAVEMENT MUST BE FULLY RESTORED, CLEARED OF ALL DEBRIS AND MATERIAL AND APPROVED BY THE AIRPORT AND ENGINEER.			
В	10.	THE CONTRACTOR SHALL HAVE AT LEAST ONE FULLY OPERATIONAL VACUUM SWEEPER TRUCK, WITH A WORKING ROTATING OR FLASHING AMBER BEACON, MOUNTED AT THE HIGHEST POINT OF THE VACUUM SWEEPER TRUCK AVAILABLE ON SITE AT ALL TIMES TO CLEAN PAVEMENTS PRIOR TO REOPENING TO AIRCRAFT.			
	11.	THE CONTRACTOR'S ON-SITE REPRESENTATIVE SHALL MEET WITH THE OWNER AND ENGINEER PRIOR TO THE START OF WORK EACH DAY, TO DISCUSS THE DAY'S CONSTRUCTION ACTIVITY		<u>NOTES:</u> 1. SIGN DIME MUTCD RE	INSIONS, LEGEND, BACKGROUND, AND MC EQUIREMENTS.
	12.	HANGAR ROAD WILL REMAIN OPEN AND ACTIVE FOR VEHICULAR TRAFFIC FOR THE DURATION OF CONSTRUCTION. AS SUCH, THE CONTRACTOR'S FORCES SHALL EXERCISE EXTREME CAUTION WHEN ENTERING HANGAR ROAD FROM THE STAGING AREA OR WORK AREAS.		2. CONSTRU BY THE EN	CTION TRAFFIC SIGNS SHALL BE IN PLACE IGINEER PRIOR TO THE START OF CONST
_	13.	LOW PROFILE AVIATION BARRICADES SHALL BE PLACED ACROSS TAXIWAY "E", AS SHOWN ON THE CONSTRUCTION WORK AREA PLAN, PRIOR TO THE START OF CONSTRUCTION IN WORK AREA 2. THE BARRICADES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE BARRICADES SHALL BE TEMPORARILY REMOVED AND REPLACED BY THE CONTRACTOR, FOR ANY AIRCRAFT REQUIRING ACCESS TO THE AIRCRAFT RUN-UP AREA AT THE NORTHEAST END OF TAXIWAY "E".	B2	CONSTRU SCALE: NOT TO SC	CTION HAUL ROAD SI
	14.	RETROREFLECTIVE CONES SHALL BE PLACED ACROSS HANGAR ROAD, AS SHOWN ON THE CONSTRUCTION WORK AREA PLAN, FOR THE DURATION OF CONSTRUCTION. THE RETROREFLECTIVE CONES SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR, FOR ANY VEHICLE OPERATED BY AIRCRAFT OWNERS REQUIRING ACCESS TO THE AIRCRAFT RAMPS OR HANGARS, OR FOR AIRPORT VEHICLES.			CONSTRUC
A	15.	THE CONTRACTOR SHALL PLACE 2"x2" WOOD STAKES, EITHER PAINTED FLUORESCENT ORANGE OR WITH ORANGE FLAGGING, ALONG THE TAXIWAY SAFETY AREA (TSA) AT A MAXIMUM 50' SPACING, PRIOR TO THE START OF CONSTRUCTION. THE WOODEN STAKES SHALL HAVE 30" REVEAL ABOVE GROUND LEVEL.			
	16.	CONSTRUCTION TRAFFIC WARNING SIGNS SHALL BE PLACED PRIOR TO THE START OF CONSTRUCTION, INSPECTED AND APPROVED BY THE ENGINEER.		NOTES: 1. SIGN DIME MUTCD RE 2. CONSTRU BY THE EN	ENSIONS, LEGEND, BACKGROUND, AND MC EQUIREMENTS. CTION TRAFFIC SIGNS SHALL BE IN PLACE IGINEER PRIOR TO THE START OF CONSTI
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EXISTING BUILDING				PROPOSED BUIL	DING		⊠ <u>CB-#</u> ⊗
EXISTING WATER SERVICE LINE				PROPOSED ASP	HALT PAVEMENT		•
EXISTING STORM SEWER PIPE & INLET							× 368.50'
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EXISTING OPTIC PHONE LINE

EXISTING UNDERGROUND ELECTRIC

EXISTING NATURAL GAS LINE

EXISTING CHAIN LINK FENCE

EXISTING PROPERTY LINE

EXISTING CONTOURS EXISTING SPOT ELEVATION

EXISTING SIGN

EXISTING ELECTRIC SERVICE BOX

EXISTING OPTIC PHONE SERVICE BOX

EXISTING ELECTRIC METER

EXISTING NATURAL GAS METER

3

PROPOSED CONCRETE PAVEMENT / SIDEWALK

EXISTING CONCRETE PAVEMENT TO BE REMOVED

PROPOSED WATER SERVICE LINE (BY ADD ON #1)

PROPOSED NATURAL GAS LINE (BY CENTRAL HUDSON)

EXISTING OBJECT / UTILITY TO BE REMOVED OR DEMOLISHED

(FULL DEPTH)

PROPOSED STORM SEWER PIPE

PROPOSED ROOF LEADER PIPE

PROPOSED UNDERGROUND ELECTRIC

PROPOSED SILT FENCE

PROPOSED CONTOUR LINE

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AL, SUCH AS CONCRETE AND ASPHALT AND EXCAVATED MATERIAL, SHALL BE OPERTY.		
ED TO IMPORT MATERIAL TO THE SITE TO COMPLETE ALL GRADING WORK.		
BE GRADED TO PROVIDE A SMOOTH MAINTAINABLE SURFACE AND ALLOW FOR		
4" MIN.), SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS.		
OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL MPLETION OF THE REQUIRED WORK WITHIN THE CONTRACT TIME ALLOWED.		
QUAINTED WITH THE DRAINAGE CHARACTERISTICS OF THE AREA SO THAT HE ICIENTLY WITH FULLKNOWLEDGE OF THE POTENTIAL DRAINAGE PROBLEMS.		
MS, INCLUDING DITCHES AND CULVERTS, WITHIN THE CONTRACT LIMITS SHALL BE FREE FLOWING FOR THE DURATION OF THE CONTRACT. THE COST OF THIS HE PRICE BID FOR VARIOUS ITEMS IN THIS CONTRACT.		

POLYVINYL CHLORIDE

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SIGNAL HAND HOLE

SILT FENCE

SQUARE FEET

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E REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH ATIONS.

VISED THAT GROUNDWATER MAY BE ENCOUNTERED AT APPROXIMATELY ELEVATION STING GRADE.

ING AREA SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE START OF WORK. E THE PROPOSED ACCESS ROUTE FOR ACCESS TO THE SITE (SEE GENERAL PLAN). N PAVEMENT AS REQUIRED BY THE ENGINEER.

> PROPOSED CATCH BASIN PROPOSED CURB STOP AND SERVICE BOX

PROPOSED PIPE BOLLARD

PROPOSED SPOT ELEVATION

PROPOSED INLET PROTECTION



C-001





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POINT TABLE							
POINT #	NORTHING	EASTING					
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P-10	976879.87	557823.41					
P-11	976882.03	557812.82					
P-12	976838.51	557863.43					
P-13	976859.45	557861.64					
P-14	976884.10	557882.80					
P-15	976912.30	557880.66					







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A1 ABBREVIATIONS	EATED T T T TING RESISTIVE MATERIAL ASTITUTE SACK-TO-BACK IANUFACTURER'S ASSOCIATION TURES PAINTING COUNCIL DE D OTHERWISE D SECTION FABRIC REINFORCEMENT NS	 EARTHWORK AND FOUNDATIONS READ THE GEOTECHNICAL SERVICES REPORT PREPARED BY DANIEL G. LOUCKS, PE. THIS REPORT IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE BOTTOM OF ALL CONCRETE FOUNDATIONS SHALL BEAR ON 12" MIN. OF COMPACTED SELECT STRUCTURAL FILL CONTRACTOR SHALL NOT COMMENCE FOUNDATION CONSTRUCTION WORK PRIOR TO INSPECTION AND APPROVAL OF THE BEARING SOL BY PROFESSIONAL GEOTECHNICAL ENGINEER. ALL EXCAVATIONS SHALL BE DE WARTHERED TO MAINTAIN GROUNDWATTER AT LEAST 24" BELOW FOOTING BEFORE PLACING OF CONCRETE. FOOTINGS SHOWN HAVE BEEN SIZED BASED ON AN ALLOWABLE NET SOL BEARING PRESSURES OF 3,000 PSF. PROFESSIONAL GEOTECHNICAL ENGINEER SHALL VERRY THE PRESSUMPTIVE BEARING PROFESSIONAL GEOTECHNICAL ENGINEER SHALL VERRY THE PRESSUMPTIVE BEARING PROSSURES CAN BE ACHIEVED. PRIOR TO CONSTITUTION OF OTIONDATIONS. BACKFILL ONE SIDE OF FOUNDATION WALLS NO MORE THAN 24" HIGHER THAN OPPOSITE SIDE, UNLESS THE SLABS AT THE TOP AND BOTTON OF THE WAIL ARE IN PLACE AND HAVE CURED 7 DAYS MINIMUM. UNLESS NOTED OTHERWISE, CENTER COLUMN FOOTINGS ON COLUMNS. UNLESS NOTED OTHERWISE, CENTER COLUMN FOOTINGS ON COLUMNS. UNLESS NOTED OTHERWISE, CENTER STRIP FOOTINGS ON FOUNDATION WALLS. READ "RECOMMENDED SITE PREPARATION SEQUENCING NOTES" THIS SHEET. A CI 318 BUILDING CODE REDUIREMENTS FOR STRUCTURAL CONCRETE A CI 318 BUILDING CODE REDUIREMENTS FOR STRUCTURAL CONCRETE A CI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS A CI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS A CI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS A CI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS A CI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS A CI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING CONCRETE MIX REQUIREMENTS F	 RECOMMENDED SITE PREPARATION SEQUENCING NOTES RECOMMENDED SITE PREPARATION SEQUENCING NOTES REPARE THE SITE BY STRIPPING AWAY ALL ASPHALT OR CONCRETE PAVEMENTS, TOPSOLL, ORGANIC MATTER AND EXISTING FLL MATERIALS FROM WITHIN THE BUILDING FOOTPRINT AND A MINIMUM OF 5-4° BEYOND ON ALL SIDES. IF LARGE BOULDERS ARE ENCOUNTERED AND REQUIRE REMOVAL, REMOVE BOULDERS USING NON-EXPLOSIVE TECHNOLES, PROVIDE TEMPORARY SHORING AS REQUIRED TO PROTECT EXISTING STRUCTURES OR PAVEMENTS NOT INTENDED TO BE DISTUBBLE. PROVIDE 12° MINIMUM OF COMPACTED STRUCTURES OR PAVEMENTS NOT INTENDED TO BE DISTUBLED, PROVIDE 12° MINIMUM OF COMPACTED STRUCTURES ON PAVEMENTS NOT INTENDED TO BE DISTUBLED, PROVIDE 12° MINIMUM OF COMPACTED STRUCTURES ON PAVEMENTS NOT INTENDED TO BE DISTUBLED, PROVIDE 12° MINIMUM OF COMPACTED STRUCTURES ON PAVEMENTS NOT INTENDED TO BE DISTUBLED, PROVIDE 12° MINIMUM OF COMPACTED STRUCTURES ON PAVEMENTS NOT INTENDED TO BE DISTUBLED, PROVIDE 12° MINIMUM OF COMPACTED STRUCTURES ON THOUSE INTO ON TRADED THAT PROVAL OF THE GEOTECHNICAL ENGINEER. DO NOT PRODEN GON PROZEM GROUND UNDER DOSTRUCT BUILDING PAD. CONTRACTOR SHALL USE APPROPRIATE MEASURES TO MAINTAIN INTEGRITY OF SUBGRADE AND PREVINCE AND REVENT ATTAINABLE THROUGH THE MODIFED PROCTOR COMPACTION TEST (ASTIN DISS). TO OF BUILDING NEXCAVATIONS. STRUCTURE, FLUX ALLE PLACED IN UNFORM & MAX. LIFTS IN ACAVATIONS. NETGENTY AND LIMITAIN INTEGRITY OF SUBGRADE AND SUBBASE ELEVATION. NATIVE SOLIS ARE MOISTURE SENSITIVE AND WILL TEND TO BECOME MUDDY AND LOSE STREINGTH WHEN WET AND EXPOSED TO NORMAL CONSTRUCTION TRAFFIC. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MAINTAIN INTEGRITY OF SUBGRADE. DIVERT WATER AWAY FROM BUILDING PAD AREA AS REQUIRED. IN UNERGRITY OF SUBGRADE. DIVERT WATER AWAY FROM BUILDING PAD AREA AS REQUIRED. DOWERT WATER AWAY FROM BUILDING PAD AREA AS REQUIRED. THE DATION GRADES AS EDECOMMENDED IN GETECHNICAL EROPORTION COMPACTED TO SASK OFT THE AXIMUM DRY DENSITY ATTAINABLE THROUGH THE PROSUBD	 <10° ZONE 2 ROOF EDGES ZONE 3 ROOF CORNEF ZONE 4 WALL NA ZONE 4 WALL NA ZONE 4 WALL COMPONENTS AND CLADDING WIND PRES THE COMPONENTS AND CLADDING WALL CORNEF THE COMPONENTS AND CLADDING THE PRESSURES INDICATED ARE "UNFORMATION AND PARAMETERS. 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AI SCALE: 12" = 1'-0"		SCALE: 12" = 1'-0"		SCALE: 12" = 1'-0"





MPONENT & CLADDING PRESSURES

С	ABBR AFF ACT AMP ALUM B BLK BD BOT BLDG C CPT CLG CTR CL CTR CLR COL CONC CMU CONT	EVIATION LIST ABOVE FINISHED FLOOR ACOUSTICAL CEILING TILE ACOUSTICAL METAL PANEL ALUMINUM BLOCK BOARD BOTTOM BUILDING CARPET CEILING CENTER CENTER LINE CERAMIC TILE CLEAR / CLEARANCE COLUMN CONCRETE MASONRY UNIT CONCRETE MASONRY UNIT	MFR MO MATL MAX MECH MTL MEZZ MIN NO NO NO NO NTS O C OC OPP OD OH OH	MANUFACTURER MASONRY OPENING MATERIAL MAXIMUM MECHANICAL METAL MEZZANINE MINIMUM NOMINAL NOT APPLICABLE NOT IN CONTRACT NUMBER NOT TO SCALE ON CENTER OPPOSITE OUTSIDE DIAMETER OVERHEAD INSULATED DOOR	BUILDING CODE INFORMATIONCODES TO WHICH THIS PROJECT WAS DESIGNED:2020 UNIFORM BUILDING CODE OF NEW YORK2020 UNIFORM BUILDING CODE OF NEW YORK2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE - ECCCNYS2020 FIRE CODE OF NEW YORK STATE - ECCCNYS2020 FIRE CODE OF NEW YORK STATE - FCNYSOCCUPANCY CLASSIFICATION (BCNYS 302):ENCLOSED GARAGE, VENTILATION (BCNYS 406.6.2):	2018 INTERNATIONAL BUILDING COE 2018 INTERNATIONAL MECHANICAL 2018 INTERNATIONAL PLUMBING CO 2018 INTERNATIONAL PLUMBING CO 2018 INTERNATIONAL ENERGY CON 2018 NFPA 70 NATIONAL ENERGY CON 2010 ICC/ANSI A117.1 ACCESSIBLE a 2020 AMMENDMENTS TO THE BUILD 2018 INTERNATIONAL FIRE CODE - IF 2018 NATIONAL FIRE PROTECTION A 2020 AMMENDMENTS TO FIRE COD 2008 NEW YORK PUBLIC HEALTH CO 2010 ADA STANDARDS FOR ACCESS LOW-HAZARD STORAGE GROUP, S2 MECHANICAL VENTILATION AND EXI	DE IBC CODE - IMC DDE - IPC SERVATION CODE - IECC AL CODE, of the NATIONAL FIRE PROTECTION ASSOC, INC. IN USABLE BUILDINGS and FACILITIES ANSI ING CODE OF NEW YORK STATE FC ASSOCIATION STANDARD (NFPA) 101 - LIFE SAFETY CODE E OF NEW YORK STATE DDE - PHC SIBLE DESIGN 2 (SBCNY 311.3) HAUST SYSTEM - PROVIDED	BUILDING CODE INFORMATION CONTINUED: FIRE SUPPRESSION (BCNYS 903.2.10): PORTABLE FIRE EXTINGUISHERS (BCNYS 906.1): OCCUPANT LOAD (BCNYS 1004.1.2): EGRESS WIDTHS (BCNYS 1005.3): EGRESS CAPACITY OF DOORS (BCNYS 1005.1):	UNSPR PORTA PARKIN DOORS STAIRS DOORS <u>SIZI</u> (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3 (1) 3
	CNIJ CJ CG CORR CTR CRS CRN DEMO DET DIA DIM DISP DN DWG	CONTROL JOINT CONSTRUCTION JOINT CORNER GUARD CORRIDOR COUNTER COURSE(S) CROWN DEMOLISH / DEMOLITION DETAIL DIAMETER DIMENSION DISPENSER DOWN DRAWING	PT PT PTD PBD PTN PLAS PLAM PLBG PLY POL PVC QT	OVERHEAD INSULATED SECTIONAL DOOR PAINT PAPER TOWEL DISPENSER PARTICLE BOARD PARTITION PLASTER PLASTIC LAMINATE PLUMBING PLYWOOD POLISHED POLYVINYL CHLORIDE QUARRY TILE	ALLOWABLE BUILDING HEIGHT / AREA (BCNYS 503.1.1, TABLE 504.3, TABLE 504.4, TABLE 506.2, BCNYS 507): OCCUPANCY TYPE (BCNYS 508.3): INCIDENTAL USES (BCNYS TABLE 509) CONSTRUCTION TYPE CLASSIFICATION (BCNYS TABLE 601):	BUILDING HEIGHT ALLOWABLE (STO BUILDING HEIGHT PROVIDED (STOR BUILDING AREA ALLOWABLE: <u>26,000</u> BUILDING AREA PROVIDED: <u>2,000 SI</u> PRIMARY OCCUPANCY USE IS <u>S2</u> MECHANICAL ROOMS NONSPRINKLI TYPE IIB, NONCOMBUSTABLE - NEW	ORY/FEET): <u>2 STORIES / 55.0 FT</u> OSF E ERED, NO SEPERATION REQUIRED CONSTRUCTION	MEANS OF EGRESS ILLUMINATION (BCNYS 1008): EXIT ACCESS TRAVEL DISTANCE (BCNYS TABLE 1017.2): RISK CATEGORY (BCNYS TABLE 1604.5): PLUMBING FIXTURES (BCNYS 2902.3.1): ENVELOPE REQUIREMENTS (ECCCNYS):	(1) 4 PROVIE <u>USE GF</u> CATEG NOT RE ORANG CLIMAT SEMI-H
	DF E EA EOS ELEC EWC EL ELEV ENCL ENTR EQ EQUIP EXH EXIST ETR EXP EJ	DRINKING FOUNTAIN EACH EDGE OF SLAB ELECTRIC ELECTRIC WATER COOLER ELEVATION ELEVATOR ENCLOSURE ENTRANCE EQUAL EQUIPMENT EXHAUST EXISTING EXISTING TO REMAIN EXPANSION EXPANSION	REINF REQD RF REV R RD RL RTU RM RO RBR RB RB	RADIUS REINFORCE REQUIRED RESILIENT FLOORING REVISION / REVISED RISER ROOF DRAIN ROOF LEADER ROOF TOP UNIT ROOM ROUGH OPENING RUBBER RUBBER BASE	FIRE RESISTANCE RATED CONSTRUCTION PROVIDED (BCNYS TABLE 601, TABLE 602): INTERIOR FINISHES (BCNYS TABLE 803.13):	STRUCTURAL FRAME: BEARING WALLS, EXTERIOR BEARING WALLS, INTERIOR NON-BEARING WALLS FLOOR CONSTRUCTION ROOF CONSTRUCTION USE GROUP S2, NONSPRINKLED ALL EXITS HAVE MINIMUM CLASS B ALL CORRIDORS HAVE MINIMUM CL ALL ROOMS & ENCLOSED SPACES F	0 HRS 0 HRS, SEPERATION DISTANCE <30FT 0 HRS 0 HRS 0 HRS 0 HRS INTERIOR FINISH ASS B INTERIOR FINISH. HAVE MINIMUM CLASS C INTERIOR FINISH		METAL UNHEA ROOF E GARAG
В	EXP EXT FT FRP FGL FIN FFL FIN GR FA FEC FHC FP FRT FP FIXT FLASH FL FD FTG FDTN	EXPOSED EXTERIOR FEET/FOOT FIBER REINFORCED POLYESTER FIBERGLASS FINISH(ED) FINISHED FLOOR ELEVATION FINISH GRADE FIRE ALARM FIRE EXTINGUISHER CABINET FIRE HOSE CABINET FIRE PROTECTION FIRE RETARDANT TREATED FIREPROOF FIXTURE FLASHING FLOOR FLOOR DRAIN FOOTING FOUNDATION	SLNT SLR SEC SHTHG SIM SD SSLM SAFB SPEC SF STN SS STL ST STOR STRUCT SUSP SYS I TK BD TMPD GL	SEALANT SEALANT SEALER SECTION SHEATHING SIMILAR SOAP DISPENSER SOLID SURFACE (SOLID CORE LAMINATE) SOUND ATTENUATION FIBERGLASS BATT SPECIFICATION SQUARE FEET STAIN STAINLESS STEEL STONE (QUARRY OR MANUFACTURED) STORAGE STRUCTURAL SUSPENDED SYSTEM TACK BOARD TEMPERED GLASS	LIFE SAFETY LEGEND 9500 SF $95P$ $ROOM OCCUPANT LOAD$ AREA IN SQ. FT. OCCUPANT LOAD FACTOR (BCNYS TABLE 1004.5) 7 $CCUPANT LOAD FACTOR (BCNYS TABLE 1004.5)$ 7 $CUPANT LOAD FACTOR (BCNYS TABLE 1004.5)$				
	FDTN FURN FBO GA GA GALV GC GL GL BLK GB GRL GYP HCP HDWD HT HP HDWD HT HP HM I IRWC ID INSUL INT JAN CLO	FOUNDATION FURNISH FURNISHED BY OTHERS GAGE / GAUGE GALVANIZED GENERAL CONTRACTOR GLASS GLASS BLOCK GRAB BAR GRILLE GYPSUM BOARD HANDICAPPED HARDWOOD HEIGHT HIGH POINT HOLLOW METAL IMPACT RESISTANT WALL COVERING INSIDE DIAMETER INSULATION / INSULATED INTERIOR	TMPD GL TER THK THRES TL TPTN TO TOS TOW T&G T TYP UNFIN UON UNFIN UON VR VR VR VR VR VR VR VR VTR VIF VERT VCT VWB VWC VP	TEMPERED GLASS TERRAZZO THICKNESS THRESHOLD TILE TOILET PARTITION TOP OF TOP OF STEEL TOP OF WALL TONGUE AND GROOVE TREAD(S) TYPICAL UNFINISHED UNLESS OTHERWISE NOTED VAPOR BARRIER VAPOR RETARDER VENT THROUGH ROOF VERIFY IN FIELD VERTICAL VESTIBULE VINYL COMPOSITION TILE VINYL COMPOSITION TILE VINYL WALL BASE VINYL WALL COVERING VISION PANEL	\star -146' \rightarrow MAXIMUM TRAVEL DISTANCE FROM FURTHEST POINT DCCUPANCY DESIGNATION: USE GROUP <u>S2</u>	o P	03:77 74% USE GROUP S2 37% 2,000 SF = 10 P 200 SF/P 0 0 0 0 0 0 0 0 0		
	K KD LAM LAM GL LAV L LF LPT	KNOCKDOWN LAMINATE LAMINATED GLASS LAVATORY LENGTH / LONG LINEAL FEET LOW POINT	W WSCT W CAB WC W WG W/ WM WRB WD WBL	WAINSCOT WALL CABINET WATER CLOSET WIDE WIRE GLASS WITH WIRE MESH WEATHER RESISTANT BARRIER WOOD WOOD BLOCKING		1	LIFE SAFETY PLAN SCALE: 3/32" = 1'-0"		

JNSPRINKLER	ED - NOT REQUIRE	D - REFER TO LIFE SAFETY	Ý PLAN
PORTABLE FIRI	E EXTINGUISHERS	- PROVIDED	
PARKING GARA	GE: 200 SF P	ER OCCUPANT	
DOORS AND CO STAIRS:	ORRIDORS:	0.2" PER OCCUPANT 0.3" PER OCCUPANT	
DOORS WITH S	TANDARD HOLLO	W METAL FRAMES AND BUT	THINGES
<u>SIZE</u>	CLEAR WIDTH	MAX. OCC. LOAD (CA	<u>P = .2"/OCC)</u>
(1) 3'-0"	33.125"	165 OCCUPAN	ITS
(1) 3'-2"	35.125"	175 OCCUPAN	ITS
(1) 3'-4"	37.125"		115 115
(1) 3-0 (1) 3'-8"	39.125 41.125"	205 OCCUPAN	ITS
(1) 3'-10"	43.125"	215 OCCUPAN	ITS
(1) 4'-0"	45.125"	225 OCCUPAN	ITS
	EXIT DOORS		
JSE GROUP S2	. 300' Allowabl	E, 68' PROVIDED - REFER TO	D LIFE SAFETY PLAN
CATEGORY II			
NOT REQUIRED)		
DRANGE COUN CLIMATE ZONE SEMI-HEATED N	ITY NY: 5 METAL BUILDING		
METAL BUILDIN	IG ENVELOPE: TAE REQUIRED: R-13 + PROVIDED: R-16 (BLE C402.1.3, C402.1.4 + 13CI OR U-0.052 DR U-0.063	
JNHEATED SLA	AB: TABLE C402.1.3 REQUIRED: R-10 F PROVIDED: R-15	3 OR C402.1.4 FOR 24" BELOW	
ROOF ENVELO	PE: TABLE C402.1. REQUIRED: R-19 + PROVIDED: R-19 +	3 OR C402.1.4 + 11 LS OR U-0.035 + 11 LS	
GARAGE DOOR	R GLAZING <14%: T REQUIRED: U-0.3 PROVIDED: U-0.37	ABLE C402.1.4	
WINGING DOC	DR: TABLE C402.1. REQUIRED: R-4.75 PROVIDED: R-19 +	3 OR C402.1.4 5 OR U-0.37 + 11 LS	

2 SLAB EDGE PLAN SCALE: 1/8" = 1'-0"

- **PLAN LEVEL 1** SCALE: 1/8" = 1'-0"
- А **REFLECTED CEILING PLAN LEGEND** X'-X" CEILING HEIGHT WALL PACK, SEE ELECTRICAL <u>()</u> OCCUPANCY SENSOR, SEE ELECTRICAL $\mathbf{\mathbf{O}}$ EXIT LUMINAIRE, В SEE ELECTRICAL \bigcirc LIGHT FIXTURE, SEE ELECTRICAL SMOKE DETECTOR, S SEE FIRE PROTECTION A-201 H HEAT DETECTOR, SEE FIRE PROTECTION \bullet SPOT ELEVATION

А

В

С

C

							DOOR SCHEDULE				
			DOO	R			FRA	ME			HARDWARE
DOOR NO.	TYPE	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	DEPTH	HEAD / JAMB / SILL DETAIL	SET
101A	OSD	26'-0"	16'-0"	IM	PT-1	OHD	ST	PT-1		3/A601, 6/A601	H2
101B	OSD	16'-0"	16'-0"	IM	PT-1	OHD	ST	PT-1		3/A601, 6/A601	H2
101C	OSD	16'-0"	16'-0"	IM	PT-1	OHD	ST	PT-1		3/A601, 6/A601	H2
101D	OSD	26'-0"	16'-0"	IM	PT-1	OHD	ST	PT-1		3/A601, 6/A601	H2
101E	SF	3'-0"	7'-0"	IM	PT-1	F1	ST	PT-1	6"	8/A601, 5/A601, 7/A601	H1
101F	SF	3'-0"	7'-0"	IM	PT-1	F1	ST	PT-1	6"	8/A601, 5/A601, 7/A601	H1

						ROOM FINI	SH SCHEDULE				
					WALLS (SUBSTRATE/FINISH)						
ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH	SOUTH	EAST	WEST	SUBSTRATE/F			
101	SRE BLDG	SCONC	PT-1	PT-1	PT-1	PT-1	PT-1	PT-1			

SCONC	-	SLALLD CONGRETE
CMU	-	CONCRETE MASONRY UNIT
GYP	-	GYPSUM BOARD
PT	-	PAINT
UNFIN	-	UNFINISHED

ST	PT-1		3//
ST	PT-1		3//
ST	PT-1	6"	8/A601
ST	PT-1	6"	8/A601

- 1). ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO NEW YORK ENERGY CODE, NEW YORK BUILDING CODE AND OSHA.
- 2). ALL EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF THE CURRENT INTERNATIONAL ENERGY CODE AND AS MODIFIED BY NEW YORK. ALL SUBMITTALS FOR EQUIPMENT COVERED BY THE CODE SHALL INCLUDE THE MANUFACTURER'S STATEMENT OF CONFORMANCE TO THE CODE.
- 3). FIELD VERIFY ALL DIMENSIONS PRIOR TO DUCTWORK FABRICATION OR ANY OTHER MECHANICAL WORK. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING AND DUCTWORK WITH OTHER CONTRACTORS. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS, AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER CONTRACTS.
- 4). MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL HVAC PENETRATIONS (PIPING, DUCTWORK, ETC) IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND WHERE SHOWN OR SPECIFIED.
- 5). ITEMS OF SPECIFIC MANUFACTURER'S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVES DIRECTIONS.
- 6). MECHANICAL CONTRACTOR TO INSTALL ALL NECESSARY STIFFENERS, BRACES, STRUTS, ETC, WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE, AND DURABLE SYSTEM.
- 7). DIMENSIONS SHOWN "AFF" INDICATE THE ACTUAL CLEAR DIMENSIONS FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR ELEVATION; UNLESS INDICATED OTHERWISE.
- 8). SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.
- 9). ALL DUCT DIMENSIONS SHOWN ARE "SIDE SEEN" BY "SIDE NOT SEEN" AND ARE THE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
- 10). BRANCH DUCTS TO REGISTER SHALL BE THE SAME SIZE AS REGISTER UNLESS INDICATED OTHERWISE.
- 13). PROVIDE ALL CONTROL AND INTERLOCK WIRING REQUIRED OR SPECIFIED THAT IS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 14). COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE RESPONSIBILITIES FOR SUPPLYING, INSTALLING AND WIRING OF HVAC-RELATED DISCONNECT SWITCHES, STARTERS, SAFETY INTERLOCKS, EMERGENCY SHUTDOWN AND WIRING.
- 15). WORK ON M-SERIES DRAWINGS IS BY THE MECHANICAL CONTRACTOR (MC) UNLESS OTHERWISE NOTED.
- 16). VERIFY ALL LOCATIONS, DIMENSIONS, EQUIPMENT ARRANGEMENTS, CLEARANCES AND ELECTRICAL CHARACTERISTICS IN THE FIELD PRIOR TO BID. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- 17). PRIOR TO CUTTING THROUGH WALLS THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS, AND OR COLUMNS. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY DIRECTED TO DO SO.
- 18). THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IN THE LOCATIONS WHICH WILL REQUIRE MECHANICAL SUPPORT STEEL.

B1 GENERAL NOTES SCALE: NOT TO SCALE

	ABBREVIA	TIONS
	AMP	AMPERES
	AAD	AUTOMATIC AIR DAMPER
	AFF	ABOVE FINISHED FLOOR
	APD	AIR PRESSURE DROP
	BDD	BACK DRAFT DAMPER
	BHP	BRAKE HORSE POWER
	BOD	BOTTOM OF DUCT
	BTU	BRITISH THERMAL UNIT
Λ	BTUH	BRITISH THERMAL UNIT PER HOUR
A	С	COMMON
	СО	CARBON MONOXIDE
	CFM	CUBIC FEET PER MINUTE
	dB	DECIBELS
	DB	DRY BULB TEMPERATURE
	DIA	DIAMETER
	DN	DOWN
	DP	DEWPOINT TEMPERATURE

A1 ABBREVIATIONS SCALE: NOT TO SCALE

GENERAL	
T) TEM	PERATURE SENSOR WITH LOCKING GUARD
CO CAR	BON MONOXIDE SENSOR
DUCTWOR	K
RETU	JRN DIFFUSER
SUP	PLY DIFFUSER
SQU	ARE TO ROUND DUCT TRANSITION
SQU	ARE MAIN TO ROUND BRANCH TAKE-OFF
	IBLE DUCT CONNECTOR
	TIVELY PRESSURIZED DUCT OUT OF THE PLANE
	TIVELY PRESSURIZED DUCT INTO THE PLANE
NEG.	ATIVELY PRESSURIZED DUCT OUT OF THE PLANE
	ATIVELY PRESSURIZED DUCT INTO THE PLANE
SQU.	ARE ELBOW WITH TURNING VANES
	UAL VOLUME DAMPER
	DMATIC AIR DAMPER
UNIT	GENERAL EQUIPMENT DESIGNATION
VIEW SHEET	ENLARGED PLAN & DETAIL CALL OUT

B3 SYMBOLS SCALE: NOT TO SCALE

EAT	ENTERING AIR TEMPERATURE	IRH
EDB	ENTERING DRY BULB TEMPERATURE	KW
EFF	EFFICIENCY	LAT
ENC	ENCLOSURE	LB
ESP	EXTERNAL STATIC PRESSURE	LDB
EWB	ENTERING WET BULB TEMPERATURE	LV
EXH	EXHAUST AIR	LWB
F	FAN	MAX
°F	FAHRENHEIT	MAU
FC	FLEXIBLE CONNECTION	MBH
FIL	FILTER	MCA
FPM	FEET PER MINUTE	MIN
FT	FEET	MOP
GC	GENERAL CONTRACTOR	MV
HP	HORSEPOWER	NC
HZ	HERTZ	NIC
IN	INCH	OA

INFARED HEATER	PD	PRESSURE DR
KILOWATT	RA	RETURN AIR
LEAVING AIR TEMPERATURE	RPM	REVOLUTION F
POUND	SA	SUPPLY AIR
LEAVING DRY BULB TEMPERATURE	SD	SMOKE DAMPE
LOUVER	SP	STATIC PRESS
LEAVING WET BULB	SQ	SQUARE
MAXIMUM	THC	TOTAL HEAT C
MAKEUP AIR UNIT	TSP	TOTAL STATIC
1000 BTUH	TYP	TYPICAL
MINIMUM CIRCUIT AMPACITY	V	VOLT
MINIMUM	VD	VOLUME DAMF
MAXIMUM OVERCURRENT PROTECTION	VIF	VERIFY IN FIEL
MANUAL VENT	VP	VACUUM PUMF
NORMALLY CLOSED	VSD	VARIABLE SPE
NOT IN CONTRACT	WH	UNIT HEATER
OUTSIDE AIR	WB	WET BULB TEN

PD	PRESSURE DROP
RA	RETURN AIR
RPM	REVOLUTION PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
THC	TOTAL HEAT CAPACITY
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V	VOLT
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
VP	VACUUM PUMP
VSD	VARIABLE SPEED DRIVE
WH	UNIT HEATER
WB	WET BULB TEMPERATURE

	INFRARED RADIANT TUBE HEATER SCHEDULE (IRH)										
			STRAIGHT							ELECTRICAL	
			LENGTH		INPUT	GAS PRESSURE	GAS PRESSURE	# OF			
ι	JNIT NO.	LOCATION	(FT)	FUEL TYPE	MBH	MIN. (IN WG)	MAX. (IN WG)	STAGES	VOLTS	PHASE	Ν
	IRH-1	SRE BLDG 101	10' - 0"	NATURAL GAS	40	4.6	14	1	120	1	
	IRH-2	SRE BLDG 101	20' - 0"	NATURAL GAS	60	4.6	14	1	120	1	
	IRH-3	SRE BLDG 101	20' - 0"	NATURAL GAS	60	4.6	14	1	120	1	
	IRH-4	SRE BLDG 101	10' - 0"	NATURAL GAS	40	4.6	14	1	120	1	

						FAN SCHE	DULE (EF)				
					E.S.P.		MAX.		ELECTRICAL		
LOCATION	SERVICE	TYPE	ARRANGEMENT	CFM	(IN WG)	RPM	SONES	VOLTS	PHASE	FLA	HP
SRE BLDG 101	EXHUAST	DIRECT DRIVE	WALL MOUNTED	2000 CFM	0.5	1725	21	115 V	1	6.4	1/2

5			4				
INFRARED RADIANT TUBE HEATER SCHEDU IPUT GAS PRESSURE MIN. (IN WG) GAS PRESSURE MAX. (IN WG) 40 4.6 14 1 60 4.6 14 1 60 4.6 14 1 40 4.6 14 1 40 4.6 14 1 50 4.6 14 1 40 4.6 14 1 50 4.6 14 14 1 50 4.6 14 1	LE (IRH) ELECT VOLTS PHA 120 1 120 1 120 1 120 1 ECTRICAL PHASE FLA 1 6.4	RICAL ASE MCA 1 1 1 1 1 1 1 1 1 1 1 1 HP 1/2	BASIS OF DE MANUFACTURER ROBERTS GORDON ROBERTS GORDON ROBERTS GORDON ROBERTS GORDON BASIS OF DES MANUFACTURER Greenheck AEI	SIGN MODEL CTHN-40 CTHN-60 CTHN-60 CTHN-40 CTHN-40	REMARKS 1 2 1 1 N REMARKS 1,2,3	С	COMPANIES COMPAN
STATIONAR UNIT NO. LOCATION SERVICE CFM MVG) SRV-1 ROOF INTAKE 2000 0.05 1. PROVIDE 2" DEEP DRIP PAN. 2. PROVIDE 14" H. CURB WITH MOTORIZED DAMPER. VACUUM NO. LOCATION ARRANGEMENT VOLTS 1 SRE BLDG 101 WALL MOUNTED 120 V	Y ROOF VENT SCH THROAT DIMENS LENGTH WIE 2'-0" 2'- PUMP SCHEDULE ELECTRICA PHASE R 1 3 ³	IEDULE (SRV) IONS FREE AREA OTH OTH (SQFT) 6" 5 (VP) Image: Comparison of the second seco	BASIS OF SD MANUFACTURER Greenheck BASIS OF D MANUFACTURER ROBERTS GORDON	ESIGN FGI ESIGN MODEL EP-201	REMARKS 1,2	В	SRE BUILDING ORANGE COUNTY AIRPORT 500 DUNN ROAD MONTGOMERY NY 12549
NVAY PUMP UMP UMP UMP UNP UNP UNP UNP UNP UNP UNP UN	NOTE FIRS AFTE CHAI PER	ES: THANGER AFTER EACH I ER THAT ALL OTHER HAN N LENGTH TO BE DETERN TABLE ABOVE.	AMP BAR JOIST O BURNER SHALL BE 7'-6" DOWNSTR GERS SHALL BE SPACED AT 10'-0". MINED BASED ON THE LENGTH OF	CLIP Straight Run Length 50' 100' 150' 200' 250' BEAM REFLECTOR 4" TUBE	Typical Expansion Minimum "X" Length ±1 12" ±2 24" ±3 36" ±4 46" ±6 57" BEAM CLAMP		MARK DATE DESCRIPTION REVISIONS PROJECT NO: 104120001 DATE: FEBRUARY 2021 DRAWN BY: A.M. CALABRESE DESIGNED BY: A.M. CALABRESE CHECKED BY: L.J. MERRY NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW SCHEDULES AND DETAILS M-601
MP VENT DETAIL	A4 INFRAR	ED HEATING SCALE	SYSTEM HANGER			+	Copyright O
3	1		4			1	Coble i Bue

VACUUM PUMP SCHEDULE (VP)							
			ELECTRICAL				
	LOCATION	ARRANGEWENT	VOLTS	PHASE	RPM		
VP-1	SRE BLDG 101	WALL MOUNTED	120 V	1	3450		

	1		2
		ELECTRICAL SYN	IBOL LIST
			EXISTING WORK LINETYPE
		or	DEMOLITION WORK LINETYPES
			NEW WORK LINETYPE
С		Φ ^{xx}	DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS N GFI = GROUND FAULT CIRCUIT INTERRUPTER, MOUN WP = GFI WITH WEATHERPROOF COVER, MOUNT AT
		 ₽	QUAD RECEPTACLE, MOUNT 18" AFF UNLESS OTHER GFI = GROUND FAULT CIRCUIT INTERRUPTER, MOUN
		۲	SPECIAL RECEPTACLE
		\$ ^{XX}	SINGLE POLE SWITCH, UNLESS NOTATION INDICAT 3 = THREE-WAY SWITCH
		×	DISCONNECT SWITCH (TICKS INDICATE NUMBER O
			CIRCUIT BREAKER (TICKS INDICATE NUMBER OF P
			CONTACTS (NORMALLY OPEN)
		/	CONTACTS (NORMALLY CLOSED)
			FUSE
В			GROUND
		PC	PHOTO CELL FOR EXTERIOR LIGHTING CONTROL
			NON FUSED DISCONNECT SWITCH
		L	JUNCTION BOX
		Ø	ELECTRICAL MOTOR (SEE EQUIPMENT CONNECTION
			PANEL BOARD, REFER TO PANEL BOARD SCHEDU
		XXX	BRANCH CIRCUIT HOME RUN WITH CIRCUIT NUMB SEE PANEL SCHEDULES FOR DETAILS
A		Δ2 ELE	CTRICAL SYMBOLS
	4	RZ SCALE:	NOT TO SCALE
	7		2

	\oslash_{A}	HIGHBAY LIGHT FIXTURE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE]	
	A	INDICATES WALL MOUNTED LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE		
	€ _A	INDICATES EMERGENCY HIGHBAY LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE		
		EMERGENCY LIGHT WITH BATTERY PACK		
NT AT 48" AFF UNLESS OTHERWISE NOTED 42" AFF UNLESS OTHERWISE NOTED	UE	UNDERGROUND ELECTRIC		
WISE NOTED	€ _A	EXIT LUMINAIRE, SHADED AREA DENOTES FACE, LETTER DENOTES TYPE		
T AT 48" AFF UNLESS OTHERWISE NOTED	M	METER		
ES OTHERWISE.				
PF POLES)				
OLES)				ALL ELECTRICAL WORK SH ELECTRICAL CHARACTERI
				 ITEMS OF SPECIFIC MANUF MANUFACTURER'S PRINTE
				4. THE CONTRACTOR SHALL
				5. ALL CONDUIT AND WIRING
				 THE ELECTRICAL CONTRAC CONTRACTORS. ALL AREAS DISTURBED BY
				 ALE ARCHIER DISTORDED DI ORIGINAL AS DETERMINED 8. THE CONTRACTOR SHALL
	ELECTRICAL CONT	TROLS SYMBOL LIST	_	AND INTERLOCK.9. ALL ELECTRICAL CONDUIT
	©	CONTACTOR ("M" DENOTES MOTOR CONTACTOR)		REMOVED. 10. CONTRACTOR SHALL FIELI PORTION OF AN EXISTING
	R	INDICATOR LIGHT		MAINTAINED TO THE REST 11. ALL BRANCH CIRCUIT CON
		CONNECTION POINT OR CABLE SPLICE		12. ALL BRANCH CIRCUITS SH
DN SCHEDULE)	****	TRANSFORMER		
LE		FUSED DISCONNECT SWITCH	B 4	ELECTRICAL GEN SCALE: NOT TO SCALE
ER	- BPS	BOLTED PRESSURE SWITCH w/FUSE		
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A4 ELECTRICAL ABB

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	С	COMPANIES COMPAN
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	_	A HOVEMBER 1980
 ALL ELECTRICAL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND NATIONAL ELECTRICAL CODES. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURE'S REPRESENTATIVE'S DIRECTIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS ALL CONDUIT AND WIRING SCHEDULES SHALL BE VERIFIED BEFORE INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL AS DETERMINED BY THE ENGINEER. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT. ALL BRANCH CIRCUIT SHALL CONSIST OF 2 CONDUCTORS PLUS GROUND, UNLESS OTHERWISE SHOWN. ALL BRANCH CIRCUITS SHALL CONSIST OF 2 CONDUCTORS PLUS GROUND, UNLESS OTHERWISE SHOWN. 	В	SRE BUILDING ORANGE COUNTY AIRPORT 500 DUNN ROAD MONTGOMERY NY 12549
AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE CT CURRENT TRANSFORMER DP MISTRIBUTION PANEL MDP MAIN DISTRIBUTION PANEL	A	MARK DATE DESCRIPTION MARK DATE DESCRIPTION REVISIONS REVISIONS PROJECT NO: 104120001 DATE: FEBRUARY 2021 DRAWN BY: S.R. PINE DESIGNED BY: S.R. PINE CHECKED BY: S.H. SHOVA NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW
MDPMAIN DISTRIBUTION PANELEFEXHAUST FANEMTELECTRIC METALLIC TUBINGGFIGROUND FAULT INTERRUPTERGNDGROUNDJBJUNCTION BOXKAKILO AMPKVKILO VOLTKVAKILO VOLT AMPNCNORMALLY CLOSEDNEMANATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONREMREMARKSRGSRIGID GALVANIZED STEEL CONDUITWPWEATHER PROOF		ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS
A4 ELECTRICAL ABBREVIATIONS		E-001

		1	2	2					3		
С							PRIMARY UTILITY CAE "15KV, #2 AWO	PROVIDE 1-5" CONDUT BELOW PER	EXIS UTI TRANSF	STING ILITY FORMER PROPOSED UTILITY TRANSFORMER UTILITY TRANSFORMER UTILITY TRANSFORMER UTILITY TRANSFORMER UTILITY TRANSFORMER	4-600MCM, 1-#2/0G IN 4" CONDUIT, WITH 1 - 4" SPARE CONDUIT M DIGITAL METER & CT CABINET GROUND PER N.E.C. CODE
							MILS CONDUC #14 AWG TINN CONDUCTING	TOR SHIELD,220 MILS CROS IED COPPER CONCENTRIC N CABLE JACKET APPLIED OV	S LINKED POLYETHYLENE EUTRAL APPLIED SPIRALL ER THE NEUTRAL CONDUC	INSULATION, 30 MILS INSULATION SHIELD AND 10 _Y AROUND THE CABLE WITH A 50 MILS SEMI- CTOR."	
В			400 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 42 POLE SPACES	A00 AMPS Wye VOLTS 3 PHASE 4 WIRE 4 WIRE 5 C RAT 42 POLE SPACES ENCLOSI			CHEDULE KER 400 A JGS BAR COPPER ING 30 KAIC JRE NEMA 1		INSTA LC PANEL	INSTALLATION MDP LOCATION SRE BLDG 101 PANEL FEEDER UTILITY NOTES	
		OVERH OVERH CONVE EXTERI CARBO EF-1 PC AVIATIC SPARE	CIRCUIT DESCRIPTIONWIEAD DOOR POWER (RIGHT, IN)3-#EAD DOOR POWER (RIGHT, OUT)3-#NIENCE RECEPTACLES (RIGHT)1-#12,OR LIGHTING1-#12,N MONOXIDE ALARM1-#12,WER1-#12,N RADIO POWER1-#12,	IRE SIZE CC #12, 1-#12 \$ #12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$ 1-#12, 1-#12 \$	CB. AMPS Poles 3/4" 20 A 3 3/4" 20 A 3 3/4" 20 A 3 3/4" 20 A 1 3/4" 20 A 1	CKT A 1 - - 3 - - 5 - - 7 - - 9 - - 11 - - 13 - - 11 - - 13 - - 15 - - 15 - - 19 - - 21 - -	Image: Book of the sector of the se	CB. AMPS CONDUI T 20 A 3/4" 20 A 3/4"	WIRE SIZE 3-#12, 1-#12 3-#12, 1-#12 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12	CIRCUIT DESCRIPTION OVERHEAD DOOR POWER (LEFT, IN) OVERHEAD DOOR POWER (LEFT, OUT) OVERHEAD DOOR POWER (LEFT, OUT) CONVENIENCE RECEPTACLES (LEFT) INTERIOR LIGHTING INFRARED BURNER POWER INFRARED BLOWER POWER UHF MAINTENANCE RADIO POWER MAN DOOR LIGHTING	
		SPARE SPARE SPARE SPARE SPARE SPARE FUTURE	E SUBFEED BREAKER		20 A 1 20 A 3	25 - - 27 - - 29 - - 31 - - 33 - - 35 - - 37 - - 39 - - 41 - -	26 1 28 1 30 1 32 1 32 1 332 1 332 1 332 1 333 36 38 38 40 33 42 42	20 A 50 A	 	SPARE SPARE SPARE SPARE SPARE SPARE	
A	FIXTURE DESCRIPTION A B1	FIXTURE DESCRIPTION MANUFACTURER AND MODEL NUMBER A LITHONIA LIGHTING LED HIGH-BAY FIXTURE, MODEL # JCBL-9000LM-AC ENGINEERS APPROVED EQUAL B1 H.E. WILLIAMS VOLTAIRE AREA LIGHT FIXTURE, MODEL # VA1-L110/74 ENGINEERS APPROVED EQUAL C H.E. WILLIAMS VOLTAIRE AREA LIGHT FIXTURE, MODEL # VA1-L110/74 ENGINEERS APPROVED EQUAL C H.E. WILLIAMS VOLTAIRE AREA LIGHT FIXTURE, MODEL # VA1-L110/74 ENGINEERS APPROVED EQUAL C H.E. WILLIAMS VOLTAIRE ARCHITECTURAL LIGHT FIXT VWPV-L30/740-T3-SBZ-GCL-EM/4W-PC-DIM-120 OR ENGINEER FXI LED EXIT LIGHT THERMOPI ASTIC HOUSING LINIV/ERSAL EACE W/HITE FIXT			MASTER L NUMBER AND TYPE OF LAMP 63W LED 110W LED	UMINAIF VOLTS 120 120	RE SCHEDULE BALLAST LED DRIVER LED DRIVER	MOUNTING PENDANT MOUN WALL MOUNTER	IT PRO D	OVIDE EMERGENCY BATTERY FOR MOUNT FIXTURES ABOV	REMARKS FIXTURE WHERE INDICA /E OVERHEAD DOORS AS

