

HVLS CEILING FAN SCHEDULE											
DESIG	MANUF.	TYPE	MODEL	DIAMETER	MAX. RPM	HP	VOLTS/PH.	MOCp	SOUND @ MAX. SPEED	SERVICE	REMARKS
CF-1	BIG ASS SOLUTIONS	HVLS	PFX3-24	24 FT.	65	2	208/3	20 AMP	<55 dBA	WAREHOUSE	1,2,3,4

REMARKS:

1. MOUNT MINIMUM OF 4-FT BELOW CEILING STRUCTURE, APPROXIMATELY 20-FT AFF
2. PROVIDE REMOTE WALL CONTROLLER TO CONTROL FAN.
3. PROVIDE FAN INTERLOCK WITH BUILDING FIRE SPRINKLER SYSTEM. FAN SHALL SHUT DOWN ON SIGNAL FROM FIRE ALARM.
4. PROVIDE ALL MOUNTING HARDWARE REQUIRED INCLUDING EXTENSION TUBES.

ELECTRIC UNIT HEATER SCHEDULE									
TAG	TYPE	KW	VOLTS/PH	BTUH	MAXIMUM HEIGHT	MANUF	MODEL	MCA	REMARKS:
EUH-1	WALL MOUNTED	15	208/3	51,150	12 FT	TRANE	UHEC-153AACA	60 A	1,2,3,4
EUH-2	WALL MOUNTED	15	208/3	51,150	12 FT	TRANE	UHEC-153AACA	60 A	1,2,3,4,5
EUH-3	WALL MOUNTED	15	208/3	51,150	12 FT	TRANE	UHEC-153AACA	60 A	1,2,3,4,5
EUH-4	WALL MOUNTED	15	208/3	51,150	12 FT	TRANE	UHEC-153AACA	60 A	1,2,3,4,5
EUH-5	WALL MOUNTED	15	208/3	51,150	12 FT	TRANE	UHEC-153AACA	60 A	1,2,3,4,5
EUH-6	WALL MOUNTED	15	208/3	51,150	12 FT	TRANE	UHEC-153AACA	60 A	1,2,3,4,5

REMARKS:

1. PROVIDE WALL-MOUNTED THERMOSTAT
2. PROVIDE BUILT-IN CONTROL 24 VOLT TRANSFORMER, AND BUILT-IN CIRCUIT BREAKER
3. PROVIDE BUILT-IN NEC-UL DISCONNECT SWITCH
4. PROVIDE WITH ALL HARDWARE FOR HORIZONTAL OR VERTICAL MOUNTING (SEE DRAWINGS)
5. DELETE UNIT HEATER IF ALTERNATE-Q2 IS ACCEPTED

VENTILATION CALCULATIONS								
ROOM	SYSTEM	NET OCCUPABLE FLOOR AREA	CEILING	OUTDOOR AIR				
				PEOPLE / 1,000 SF	PEOPLE Pz	OA CFM / PERSON Rp	OA CFM / SF Ra	MIN. OA CFM Voz
CONFERENCE 113	AHU-1	772	12	50	16	5	0.06	126
	AHU-1							126
CORRIDOR 106A	AHU-2	65	10	0	0.0	0	0.06	5
MAIL RM 105	AHU-2	113	10	5	1.0	5	0.06	15
HOUSE KEEPING 104	AHU-2	150	10	0	0.0	5	0.06	11
AD. OFFICE 103	AHU-2	166	10	5	0.2	5	0.06	14
DIRECTOR OFF. 102	AHU-2	166	10	5	0.2	5	0.06	14
RECEPTION 101	AHU-2	478	12	30	0.0	5	0.06	36
	AHU-2							94
OFFICE 107	AHU-3	100	9	5	0.3	5	0.06	9
TOILET 108	AHU-3	80	9	0	0.0	0	0.00	0
TECH. AREA 109	AHU-3	285	9	5	0.3	5	0.06	23
CORRIDOR 106	AHU-3	314	9	0	0.0	0	0.06	24
LIBRARY 110	AHU-3	145	9	10	0.5	5	0.06	14
TOILET 111	AHU-3	80	9	0	0.0	0	0.00	0
TOILET 112	AHU-3	80	9	0	0.0	0	0.00	0
	AU-3							70

NOTES

1. ZONE AIR DISTRIBUTION EFFECTIVENESS IS 1.0 IN COOLING AND 0.8 IN HEATING MODE.
2. SYSTEM POPULATION IS ASSUMED TO BE 100%

AIR DISTRIBUTION SCHEDULE											
DESIGN	TYPE	CFM RANGE	CEILING MODULE	NECK / SR	FRAME	MAX NC	MAX TP	MANUF	MODEL	FINISH	REMARKS
A	LOUVERED FACE CEILING DIFFUSER	0 - 150	24x24	9x9 / 6"	LAY-IN	20	0.20	PRICE	SMD	OFF-WHITE	1,2,3
B	LOUVERED FACE CEILING DIFFUSER	151 - 250	24X24	9x9 / 8"	LAY-IN	30	0.20	PRICE	SMD	OFF-WHITE	1,2,3
C	LOUVERED FACE SURFACE MOUNT 1-1/4"	0-800	-	30x6	DUCT MOUNTED	20	0.10	PRICE	HCD2	OFF-WHITE	1,2,4
D	HEAVY DUTY GYM GRILLE 3/4" BLADE	0-4000	-	48x20	DUCT MOUNTED	30	0.10	PRICE	96	OFF-WHITE	1,2,4
E	LOUVERED FACE CEILING RETURN	0 - 200	-	12x12	LAY-IN	32	0.12	PRICE	60	OFF-WHITE	1,2,4
F	LOUVERED FACE CEILING RETURN	451 - 900	24X24	22x22	LAY-IN	32	0.12	PRICE	60	OFF-WHITE	1,2,4

REMARKS

- 1 SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES  
2 STANDARD OFF WHITE ENAMEL FINISH  
3 INSULATED BACK PANS

[illegible]

REMARKS: PROVIDE THE FOLLOWING.

1. BACK DRAFT DAMPER AT FAN DISCHARGE.
2. N.E.C. APPROVED DISCONNECT.
3. DUCT FLEX CONNECTION AND VIBRATION ISOLATION HANGERS.
4. OSHA BELT GUARD ON MOTOR SIDE.
5. WALL COLLAR.
6. WEATHER HOOD WITH BIRDSREEN.
7. WALL MOUNTED SWITCH
8. VARIABLE SPEED CONTROL
9. DELETE IF ALTERNATE-G2 IS ACCEPTED

LOUVER SCHEDULE												
TAG	SERVICE	TYPE	CFM	HEIGHT	WIDTH	FACE AREA, SF	FREE AREA, SF	F.A. VELOCITY	MAX APD.	MANUF(USA)	MODEL	REMARKS
L-1	EXHAUST	6" DEEP STATIONARY	225	1'-0"	2'-0"	2	0.68	330	0.1	RUSKIN	ELF6375DX	1-5
L-2	INTAKE	6" DEEP STATIONARY		1'-0"	2'-0"	2				RUSKIN		1-6
L-2	INTAKE	6" DEEP STATIONARY	25,000	6'-0"	8'-0"	48	31.37	800	0.1	RUSKIN	ELF6350DMP	1-6
L-3	INTAKE	6" DEEP STATIONARY	25,000	6'-0"	8'-0"	48	31.37	800	0.1	RUSKIN	ELF6350DMP	1-6

REMARKS: PROVIDE THE FOLLOWING.

- 1 EXTERIOR BIRDSCREEN-GALVANIZED  
2 ALUMINUM CONSTRUCTION-MILL FINISH  
3 LOUVER SIZES BASED ON 65% FREE AREA  
4 1-1/2" (3.81 cm) FLANGES TO OUTSIDE  
5 PRIMED FOR PAINTING  
6 DELETE IF ALTERNATE-G2 IS ACCEPTED

DESIG	MANUF	SERVES	INDOOR UNIT	FAN DATA			COOLING CAPACITY					HEATING CAPACITY		AUX. ELECTRICAL HEAT CAPACITY		ELECTRICAL DATA			OUTDOOR AIR CFM	UNIT WEIGHT
				NOM. CFM	ESP	MHP	MIN. TOTAL MBH	MIN. SENS. MBH	EAT (F) DB/WB	AMBIENT (F)	EER	MIN. MBH	MIN. COP	TOTAL KW	NO. OF STAGES	MCA	MOCp	VOLTAGE		
PHP-4	TRANE	WAREHOUSE	WSC102E3	3,400	0.5	2.0	103.2	83.4	80/67	95	11.4	57.0	2.4	27.0	2	112	125	208/3	230	829
PHP-5	TRANE	WAREHOUSE	WSC102E3	3,400	0.5	2.0	103.2	83.4	80/67	95	11.4	57.0	2.4	27.0	2	112	125	208/3	230	829
REMARKS: 1. PROVIDE PACKAGE UNIT WITH PROGRAMABLE, TRANE XL 824 DIGITAL THERMOSTAT 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 3. PROVIDE LOW LEAK ECONOMIZER. 4. PROVIDE RELATEL MICROPROCESSOR WITH BACNET CARD. 5. PROVIDE WITH MERV-8 FILTERS AND TWO EXTRA SET. 6. HEATING CAPACITY AT 70° FDB INDOORS AND 17° FDB OUTDOORS.																				










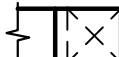








DESIG	MANUF	SERVES	INDOOR UNIT	OUTDOOR UNIT	FAN DATA			COOLING CAPACITY					HEATING CAPACITY		AUX. ELECTRICAL HEAT CAPACITY		ELECTRICAL DATA						OUTDOOR AIR CFM
					CFM	ESP	MHP	MIN. TOTAL MBH	MIN. SENS. MBH	EAT (F) DB/WB	AMBIENT (F)	MIN. SEER	MIN. MBH	MIN. COP	TOTAL KW	NO. OF STAGES	AHU			HP			
																	MCA	MOCP	VOLTAGE	MCA	MOCP	VOLTAGE	
AHU-1/CU-1	TRANE	CONFERENCE RM.	TAM7A0A24	4TWR6024	800	0.4	1/4	24	18	78/66	95	16	24	3.6	2.88	1	22	25	208/1	17	25	208/230/1	126
AHU-2/CU-2	TRANE	EXTERIOR ADMIN	TAM7A0A30	4TWR6030	1,000	0.4	1/3	30	22	80/67	95	16	30	3.6	10.8	1	41	40	208/1	17	25	208/230/1	94
AHU-3/CU-3	TRANE	INTERIOR WORK RM.	TAM7A0A24	4TWR6024	800	0.4	1/4	24	18	80/67	95	16	24	3.6	2.88	1	22	25	208/1	14	25	208/230/1	70
REMARKS:																							
1. PROVIDE PROGRAMMABLE DIGITAL THERMOSTAT WITH USER KEYCODE TO PREVENT TAMPERING.																							
2. ROUTE CONDENSATE TO ADJACENT FLOOR DRAIN OR HUB DRAIN PROVIDED BY PLUMBING CONTRACTOR. SEE PLUMBING DRAWINGS																							
3. PROVIDE HORIZONTAL AIR HANDLER WITH DRAIN PAN AND FLOAT SWITCH FOR UNIT SHUTDOWN.																							
4. PROVIDE FILTER RACK WITH MERV-8 FILTER AND (2) SPARE FILTER FOR OWNER.																							
5. VARIABLE SPEED ECM MOTOR.																							
6. EXPOSED INTERIOR AND EXTERIOR PIPING SHALL BE COVERED WITH LINESET COVER SIMILAR TO SLIM DUCT.																							
7. 5-YEAR WARRANTY.																							
8. PROVIDE LOW AMBIENT COOLING DOWN TO 30°F.																							

DUCTLESS SPLIT DX SYSTEM SCHEDULE																		
DESIG	MANUF	MODEL	SERVICE	TYPE	SUPPLY FAN			ENTERING AIR TEMPERATURE	RATED COOLING CAPACITY	SEER	HEATING CAPACITY	MAX. ELEV. DIFFERENCE	MAX. PIPE LENGTH	UNIT DIMENSIONS		POWER		
					CFM (LO)	CFM (HI)	SOUND PRESSURE							WIDTH x DEPTH x HEIGHT	WEIGHT	VOLTS/PHASE	INPUT	MOCP
AC-1	MITSUBISHI	PKA-A12HA	TELE 106	WALL MOUNTED INDOOR UNIT	290	380	36 DBA	80 DB °F / 67 DB °F	12 MBH	15.2	N/A	100	165	35-3/8" x 9-13/16" x 11-5/8"	29 LBS	208 / 1	1.19 KW	15 A
CU-4		PUY-A12NHA3		OUTDOOR UNIT	-	43 DBA	95 DB °F	31-1/2" x 13-7/8" x 23-5/8"			90 LBS							
NOTES:																		
1. EXPOSED INTERIOR AND EXTERIOR PIPING SHALL BE COVERED WITH LINESET COVER SIMILAR TO SLIM DUCT																		
2. PROVIDE CONDENSATE PUMP WITH WATER DETECTION UNIT. INTERLOCK HIGH LEVEL SWITCH WITH AC-1.																		
3. REFER TO MANUFACTURERS SPECIFICATIONS FOR MAXIMUM REFRIGERANT PIPING LENGTHS																		
4. REFER TO MANUFACTURERS SPECIFICATIONS FOR CLEARANCE RECOMMENDATIONS																		
5. LOW AMBIENT TO 0°F, ISOLATION RELAY, EVAPORATOR FREEZE THERMOSTAT																		
6. CRANKCASE HEATER																		
7. 5 MINUTE ANTI RECYCLE																		
8. OUTDOOR AIR TEMPERATURE SENSOR																		
9. FACTORY MOUNTED FILTER LINE DRYER																		
10. REMOTE MOUNTED DIGITAL THERMOSTAT, HARDWIRED																		
11. THERMOSTATIC EXPANSION VALVE																		
12. REFER TO MANUFACTURERS SPECIFICATIONS FOR CONDENSATE DRAINAGE																		
13. 1-YEAR PARTS AND 5-YEAR COMPRESSOR AND LABOR WARRANTY																		
14. PROVIDE WIND BAFFLE AS REQUIRED FOR LOW AMBIENT OPERATION TO 0°																		
15. PROVIDE HK PAD TO ELEVATE UNIT ABOVE SURROUNDING PAVED/HARD SURFACE																		

# GENERAL HVAC NOTES

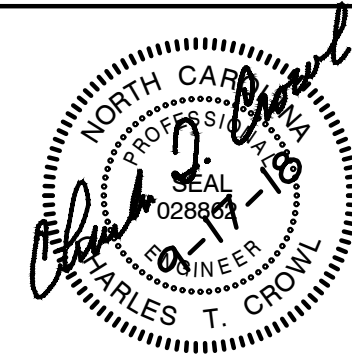
1. VERIFY EVERY ASPECT OF THE PROPOSED WORK AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS.
2. IN THE EVENT THE CONTRACTOR CHOOSES TO USE PRODUCTS OTHER THAN THE BASIS OF DESIGN, HE ASSUMES FULL RESPONSIBILITY FOR COORDINATION AND INTEGRATION OF SUCH ITEMS. SERVING FUNCTIONAL DESIGN INTEGRITY OF ALL SYSTEMS AND COMPONENTS SHALL BE MAINTAINED. VOLTAGES, LOADS, WIRE SIZES AND QUANTITIES, DISCONNECT SWITCHES AND FUSE SIZES, PHYSICAL SIZE, LOCATIONS, CLEARANCES, ETC. SHALL BE FULLY COORDINATED BY THE ELECTRICAL CONTRACTOR AND SHALL BE HIS RESPONSIBILITY. ANY ADDITIONAL COST RESULTING FROM SAID SUBSTITUTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. INSTALL ALL EQUIPMENT SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVING CLEARANCES ARE MAINTAINED. ADJUSTMENTS IN THESE LOCATIONS SHALL BE MADE BY THE CONTRACTOR TO FULLY COORDINATE WITH BUILDING CONDITIONS.
4. ALL ITEMS THAT REQUIRE ACCESS, I.E. FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE INCLUDING BUT NOT LIMITED TO ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, AND CONTROL DEVICES
5. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE MECHANICAL DRAWINGS REGARDING BUILDING CONSTRUCTION, DIMENSION AND ARRANGEMENT. LINES THAT REQUIRE SLOPE, SUCH AS PLUMBING WASTE LINES SHALL TAKE PRECEDENCE OVER ELECTRICAL LINES. CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL TRADES TO AVOID CONFLICTS AND SHALL PROVIDE ALL OFFSETS AND EQUIPMENT AS REQUIRED TO FIT THE MECHANICAL WORK INTO THE AVAILABLE SPACE.
6. READ ALL NOTES AND REMARKS SUPPLIED ON EQUIPMENT SCHEDULES
7. COORDINATE ALL SERVICE OUTAGES WITH OWNER
8. COORDINATE LIGHT, PIPING, AND DUCT LOCATIONS CLOSELY WITH E.C. PRIOR TO BEGINNING WORK
9. DUCTWORK AND PIPING ELEVATION CHANGES, TRANSITIONS, AND OFFSETS MAY NOT BE SHOWN AND SHALL BE PROVIDED AS REQUIRED
10. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE PROPER INSTALLATION OF WORK AND TO REPAIR ANY DAMAGE DONE DURING INSTALLATION
11. INSTALL MANUAL VOLUME DAMPERS IN SUPPLY, RETURN, AND EXHAUST SYSTEMS FOR EACH AIR DISTRIBUTION DEVICE AND AS REQUIRED FOR SYSTEM AIR BALANCING. LOCATE DAMPERS AWAY FROM AIR DISTRIBUTION DEVICES, NEAR DUCT MAINS, AND MAINTAIN EASY ACCESSIBILITY.
12. PROVIDE DUCT ACCESS DOORS FOR INSPECTION AT ALL NEW FIRE DAMPERS, SMOKE DAMPERS, SMOKE DETECTORS, HEATING COILS, AND HUMIDIFIERS
13. CONSULT GENERAL CONTRACTOR FOR INFORMATION ABOUT STAGING AREAS TO BE USED DURING CONSTRUCTION
14. REFER TO ARCHITECTURAL DRAWINGS FOR WALL ELEVATIONS AND REFLECTED CEILING PLANS FOR LOCATIONS OF HVAC DEVICES
15. ADJUSTABLE THERMOSTATS SHALL BE MOUNTED AT 48" FROM FINISHED FLOOR TO TOP OF DEVICE IN ACCORDANCE WITH ANSI 30B
16. PROTECT ALL AHU COILS FROM DUST, DEBRIS, THROUGHOUT INSTALLATION, INITIAL START-UP, AND CONSTRUCTION DURATION USING FILTERING MEDIA SHEET PRE-FILTERS ON ALL RETURN INTAKES
17. ALL AIR DISTRIBUTION DEVICES, AIR TERMINAL UNITS, COILS, AND EQUIPMENT, ETC. SHALL BE COORDINATED WITH THE OTHER BUILDING TRADES FOR PROPER LOCATION AND TO PREVENT INTERFERENCE WITH THE LIGHTS, PLUMBING, CONDUIT, ETC.
18. DUCT SIZES SHOWN INDICATE NET INSIDE DIMENSIONS
19. ALL 45° AND 90° TURNS IN RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH TURNING VANES UNLESS SPECIFICALLY OTHERWISE NOTED
20. SEAL ALL DUCTWORK WITH HARDCAST IRON-GRIP WATER BASED SEALANT
21. ROUND ELBOWS SHALL BE LONG ARC WITH A MINIMUM CENTER LINE RADIUS OF ONE AND ONE-HALF THE DUCT DIAMETER (1.5 X D)
22. LOW PRESSURE FLEXIBLE DUCT SHALL BE OF A LENGTH NO GREATER THAN "5'-0" AND SHALL CONTAIN ELBOWS AND BENDS BEING NO GREATER THAN 90° WITH A MINIMUM RADIUS OF ONE AND ONE-HALF THE DUCT DIAMETER (1.5 X D)
23. FLEXIBLE DUCTWORK SHALL BE LABELED IN ACCORDANCE WITH UL 181
24. WHERE FIRE ALARM RELAYS ARE INDICATED PROVIDE ADDRESSABLE IAM RELAYS AS REQUIRED
25. COORDINATE INSTALLATION OF EQUIPMENT WITH GENERAL CONTRACTOR AND OTHER TRADES TO MAINTAIN MANUFACTURER REQUIRED MINIMUM SERVICE ACCESS
26. MECHANICAL CONTRACTOR TO LOCATE ROOF PENETRATIONS FOR ROOFING CONTRACTOR. ALL ROOFING PENETRATIONS TO BE MADE BY ROOFING CONTRACTOR.
27. MECHANICAL CONTRACTOR TO SUPPLY ROOFING CONTRACTOR WITH ANY CURBS, HANDS, OR CAPS PRIOR TO ROOFING CONTRACTOR BEGINNING ROOFING WORK. MECHANICAL CONTRACTOR TO INSTALL EQUIPMENT ON INSTALLED ROOFING CURB.

MECHANICAL ABBREVIATIONS	
ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AHU	AIR—HANDLING UNIT
APD	AIR PRESSURE DROP
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
DB	DRY BULB TEMPERATURE
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FLA	FULL LOAD AMPS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
PD	PRESSURE DROP
RA	RETURN AIR
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SP	STATIC PRESSURE
TAB	TESTING, ADJUSTING, & BALANCING (T&B)
TYP.	TYPICAL
WB	WET BULB

DUCTWORK SYMBOLS LEGEND	
	FLEXIBLE DUCT CONNECTION
 ATU-1	THERMOSTAT - SERVICE: TERMINAL UNIT 1
	BALANCING DAMPER
18/14	RECTANGULAR DUCT (W/H) INSIDE CLEAR DIM.
	NEW DUCT
	FLEXIBLE CONNECTION IN DUCTWORK
	DUCT ELBOW WITH TURNING VANES
	SUPPLY AIR DUCT IN SECTION
	RETURN DUCT IN SECTION
	EXHAUST DUCT IN SECTION
	DUCTWORK TURNING DOWN
	DUCTWORK TURNING UP
 A-375	AIR DISTRIBUTION DEVICE TYPE "A" BALANCED FOR 375 CFM.
	SIDEWALL AIR DISTRIBUTION DEVICE
	RETURN/EXHAUST AIRFLOW
	SUPPLY AIRFLOW
	MECHANICAL KEYED NOTE NO. 1
	MOTORIZED DAMPER
	GRAVITY BACKDRAFT DAMPER

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NEW FACILITIES  
SERVICE BUILDING FOR:

DURHAM  
TECHNICAL  
COMMUNITY  
COLLEGE

1700 COOPER ST.  
DURHAM,NC

SCO PROJECT  
NUMBER  
17-16794-01A

PROJECT NUMBER  
17-034

## Mechanical Legends, Notes, Symbols, Schedule & Specifications

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## CONSTRUCTION DOCUMENTS

Revisions

Drawn

checked

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Sheet

## M0.1