

CABLE SCHEDULE	
DATA CABLE	- 4 PAIR TWISTED CABLE. SEE SPECIFICATIONS FOR PRODUCT DATA.
MMF OSP	- 50 MICRON MULTIMODE FIBER OPTIC CABLE, OUTSIDE PLANT RATED. SEE CABLE SCHEDULE FOR STRAND COUNT. SEE SPECIFICATIONS FOR PRODUCT DATA.
MMF I/O	- 50 MICRON MULTIMODE FIBER OPTIC CABLE, INDOOR / OUTDOOR RATED. SEE CABLE SCHEDULE FOR STRAND COUNT. SEE SPECIFICATIONS FOR PRODUCT DATA.
MMF RISER	- 50 MICRON MULTI-MODE FIBER OPTIC CABLE, RISER RATED. SEE CABLE SCHEDULE FOR STRAND COUNT. SEE SPECIFICATIONS FOR PRODUCT DATA.
XX PR CU, OSP	- 25 PAIR CAT3 TWISTED PAIR. SEE SPECIFICATIONS FOR PRODUCT DATA.
INTERCOM	- UNSHIELDED/SHIELDED TWISTED PAIR. SEE SPECIFICATIONS FOR PRODUCT DATA.
SER	- 18/2 SHIELDED MICROPHONE CABLE
SER	- 12/2 SHIELDED SPEAKER CABLE

ACRONYMS & DEFINITIONS	
#	- AFTER SYMBOL IS EQUAL TO NUMBER OF CABLES
#'	- MOUNTING HEIGHT ABOVE FINISHED FLOOR
AFF	- ABOVE FINISHED FLOOR
B	- BLANK
B.O.B.	- BOTTOM OF BOX
C	- CONDUIT
CAT#	- DENOTES CATEGORY CABLE
D	- DEMOLISH
E	- EXISTING (LIGHT SYMBOLS)
EF	- ENTRANCE FACILITY (AKA MPOE)
F	- FUTURE. PROVIDE BLANK FACEPLATE FOR ALL FUTURE OUTLETS
FB#	- FLOOR BOX NUMBER
HC	- HORIZONTAL CROSS CONNECT (PREVIOUSLY KNOWN AS IDF)
IC	- INTERMEDIATE CROSS CONNECT
MC	- MAIN CROSS CONNECT (PREVIOUSLY KNOWN AS MDF)
MMF	- MULTI-MODE FIBER OPTIC CABLE
MPOE	- MAIN POINT OF ENTRY
N	- NEW (DARK SYMBOLS)
PB	- PULL BOX
PC	- PULL CAN
R	- REMOVE
RMU	- RACK MOUNT UNITS
SER	- SOUND EQUIPMENT RACK
SMF	- SINGLE MODE FIBER OPTIC CABLE
SMR	- SURFACE MOUNT RACEWAY
TC	- TERMINAL CABINET
TE	- TELECOMMUNICATIONS ENCLOSURE
TMGM	- TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
T.O.B.	- TOP OF BOX
TR	- TELECOMMUNICATIONS ROOM
UON	- UNLESS OTHERWISE NOTED
UPS	- UNINTERRUPTED POWER SUPPLY
W	- WALL OUTLET MOUNTED @+48" AFF
WAP	- WIRELESS ACCESS POINT @+96" AFF UON.
WG	- WIRE GUARD
WP	- WEATHER PROOF

DATA SYMBOL LIST	
(#) ▽	DATA OUTLET - @+18" A.F.F. UON. PROVIDE ONE (1)4S BACK BOX, ONE (1)1G RING, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS.
(#) ▽42"	DATA OUTLET - @+42" A.F.F. UON. PROVIDE ONE (1)4S BACK BOX, ONE (1)1G RING, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS.
(#) ▽54"	DATA OUTLET - @+54" A.F.F. UON. PROVIDE ONE (1)5S BACK BOX, ONE (1)1G RING, ONE (1)2"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS.
(#) ▽B	DATA COIL - PROVIDE ONE (1) 4S BACK BOX, ONE (1)1G RING, PROVIDE 30' CABLE LOOP ABOVE CEILING TILE IN CENTER OF ROOM. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS. REFER TO DETAIL 9/74.1 FOR MORE INFORMATION.
(#) ▽	DATA OUTLET FOR SUSPENDED CEILING WIRELESS ACCESS POINT - PROVIDE ONE (1)4S BACK BOX ABOVE CEILING TILE, TWO (2)DATA CABLES/JACKS, CABLES AND JACKS PER SPECIFICATIONS. INSTALL PER DTL 8/74.1.
(#) A J	EMPTY JUNCTION BOX FOR FUTURE - PROVIDE ONE (1)4S BACK BOX, ONE (1)1G RING, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND BLANK FACEPLATE. MOUNTED AT 18" A.F.F.
(#) B J	EMPTY JUNCTION BOX FOR FUTURE - PROVIDE ONE (1)5S BACK BOX, ONE (1)1G RING, ONE (1)2"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND BLANK FACEPLATE. MOUNTED AT 54" A.F.F.

CABINET/RACK SYMBOL LIST	
(#) IDF	RE4X IDF LOCATION - PER SPECIFICATIONS. PROVIDE RACKS/CABINET PER PLANS. INSTALL PER DETAIL 5,6/74.1, 1/74.2.
(#) MDF	MDF LOCATION - EXISTING MDF CABINET. (A#03-120098)

INTERCOM SYMBOL LIST	
(#) S	CEILING MOUNTED INTERCOM SPEAKER - PROVIDE ONE (1) CEILING BOX PART # V-9915M-5 IN NEAREST ATTIC SPACE PER SPECIFICATIONS. PROVIDE (1) CAT 6 YELLOW CABLE TO BE TERMINATED TO 66 BLOCK IN IDF. @+96" T.O.B. UON. INSTALL PER DETAIL 2/74.2.
(#) H	INTERCOM HORN MOUNTED TO WALL OR UNDER BREEZEWAY - PROVIDE ONE (1) RECESSED BACK BOX PART # V-9905, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND GRILLE. PROVIDE (1) CAT 6 YELLOW CABLE TO BE TERMINATED TO 66 BLOCK IN IDF. PER SPECIFICATIONS. +96" T.O.B. UON. INSTALL PER DETAIL 7/74.1.
(#) L	WIRELESS CLOCK LOCATION - PROVIDE ONE (1) WIRELESS CLOCK PER SPECIFICATIONS. INSTALL PER DETAIL 3/74.2.

SECURITY SYMBOL LIST	
(#) C	FUTURE/NEW WALL MOUNTED CAMERA - PROVIDE ONE (2)DATA CABLE/JACK, PROVIDE 15' CABLE LOOP ABOVE CEILING TILE IN NEAREST ATTIC SPACE PER SPECIFICATIONS.

PATHWAY SYMBOL LIST	
(#) E-100	CONDUIT SLEEVE - TYPICALLY 2" CONDUIT SLEEVE UNLESS OTHERWISE NOTED. ALWAYS EXTEND SLEEVES PAST SOFFITS AND HARD LID CEILINGS.

SCOPE OF WORK	
A.	DATA
A.A.	PROVIDE NEW DATA CABLING & TERMINATION EQUIPMENT AS SPECIFIED & AS SHOWN ON DRAWINGS.
A.B.	USE ALL EXISTING SITE PATHWAYS, EXCEPT WHERE SHOWN AS NEW.
A.C.	FOR NEW OUTLET LOCATIONS, CONTRACTOR SHALL PROVIDE:
A.C.A.A.	BACK BOX, CONDUIT IN WALL, MOUNTING RING AND FACEPLATE, PER SPECIFICATIONS.
B.	INTERCOM
B.A.	RELOCATE EXISTING INTERCOM SYSTEM TO NEW MDF LOCATION.
B.B.	CONTRACTOR TO PROVIDE NEW INTERCOM CROSS CONNECT FIELD PER PLANS.
B.C.	PROVIDE NEW INTERCOM CABLING:
B.C.A.	PROVIDE SITE INTERCOM CABLING FROM EXISTING INTERCOM MASTER TO NEW CROSS CONNECT FIELD.
B.C.B.	PROVIDE INTRA-BUILDING CABLING FROM CROSS CONNECT FIELD TO BUILDING DEVICES.
B.D.	REPAIR ANY DAMAGED OR BROKEN CABLES CAUSED BY CONSTRUCTION.
C.	CLOCKS
C.A.	NEW CLOCK MASTER TO PER SPECIFICATIONS.
C.A.A.	PROVIDE NEW WIRELESS CLOCKS AS SHOWN ON PLANS.
C.B.	REPAIR ANY DAMAGED OR BROKEN CLOCKS CAUSED BY CONSTRUCTION.
D.	CLASSROOM AUDIO/VISUAL SYSTEM
D.A.	OWNER PROVIDED OWNER INSTALLED. CONDUIT INFRASTRUCTURE AS SPECIFIED AND SHOWN ON DRAWINGS.
E.	TELEPHONE
E.A.	EXISTING TELEPHONE SYSTEM TO REMAIN. RELOCATE EXISTING INTERCOM SYSTEM TO NEW MDF LOCATION.
E.B.	PROVIDE NEW CROSS CONNECT FIELD FOR TELEPHONE SYSTEM.
E.C.	RECONNECT ALL LOST PHONE CONNECTIONS TO SYSTEM CAUSED BY CONSTRUCTION.
E.D.	REPAIR ANY DAMAGED OR BROKEN CABLES CAUSED BY CONSTRUCTION.
F.	FIRE ALARM
F.A.	COORDINATE WITH ELECTRICAL PLANS, GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. LOCATION AND CONNECTION TYPE MAY VARY.
F.B.	PROVIDE ONE DATA CABLE IN EACH BUILDING TO FIRE ALARM CONTROL PANEL. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND ALL TERMINATION HARDWARE.
F.C.	PROVIDE ONE SM6 FROM MC TO MASTER FIRE ALARM CONTROLS. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND INNERDUCT, TERMINATION HARDWARE AND FIBER-LIU.
G.	EMS/HVAC
G.A.	COORDINATE WITH MECHANICAL PLANS, GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. LOCATION AND CONNECTION TYPE MAY VARY.
G.B.	PROVIDE ONE DATA CABLE IN EACH BUILDING TO EMS/HVAC CONTROL PANEL. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND ALL TERMINATION HARDWARE.
G.C.	PROVIDE ONE SM6 FROM MC TO MASTER EMS/HVAC CONTROLS. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND INNERDUCT, TERMINATION HARDWARE AND FIBER-LIU.

SHEET INDEX	
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T4.2	INSTALLATION DETAILS

GENERAL NOTES	
A.	DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY LOW VOLTAGE AND TELECOM EQUIPMENT NECESSARY TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF LOW VOLTAGE AND TELECOM WORK.
B.	ALL LOW VOLTAGE AND TELECOM WORK, MATERIALS AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, UNDERWRITERS LABORATORIES, BOARD OF UNDERWRITERS, OSHA, NEMA, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES OF REQUIRED ORDINANCES, AND DELIVER THEM TO THE OWNER'S REPRESENTATIVE.
C.	UPON REVIEW OF THE DRAWINGS PRIOR TO SUBMITTING HIS PROPOSAL, THE LOW VOLTAGE AND TELECOM CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES WITHIN THE DRAWINGS AND REQUEST CLARIFICATION CONCERNING THE DISCREPANCIES. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
D.	THE CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. THE CONTRACTOR SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS.

AGENCY INFORMATION:

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FILE NO. 156

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CONSTRUCTION DOCUMENTS