

M/NI PROJECT NUMBER 12340
Dublin City Hall
Interior Renovation

Phase 2 & 3

5200 Emerald Parkway
Dublin, Ohio 43017

PREPARED FOR:

City of Dublin
Facility Division

6555 Shier Rings Road
Dublin, Ohio 43016

PREPARED BY:

PRATER
Engineering Associates, Inc.

6130 Wilcox Road
Dublin, OH 43016
(614) 766-4896 Fax (614) 766 2354

MOODY·NOLAN, INC.
architecture civil engineering interior architecture

300 Spruce Street
Suite 300
Columbus, OH 43215
(614) 461-4664 Fax (614) 280 8881

BID SET MARCH 27, 2013

Abbreviations

AP ACCESS PANEL	JAN JANITOR
ACOUS ACOUSTICAL	JT JOINT
ADJ ADJACENT	KIT KITCHEN
AFF ABOVE FINISH FLOOR	LAB LABORATORY
AGGR AGGREGATE	LAM LAMINATE
AC AIR CONDITIONING	LAV LAVATORY
ALT ALTERNATE	LC LINEAR CEILING
AL ALUMINUM	LH LEFT HAND
L ANGLE	LGTH LENGTH
APPD APPROVED	LT LIGHT
APPROX APPROXIMATE	LWC LIGHT WEIGHT CONCRETE
APT APARTMENT	LINTEL
ARCH ARCHITECTURAL	LL LIVE LOAD
AD AREA DRAIN	MH MANHOLE
ASB ASBESTOS	MFR MANUFACTURER
ASPH ASPHALT	MAS MASONRY
AV AUDIO VISUAL	MO MASONRY OPENING
& AND	MTL MATERIAL
@ AT	MAX MAXIMUM
BSMT BASEMENT	MECH MECHANICAL
BRG BEARING	MTC MECHANICAL TRADES CONTRACTOR
BM BEAM	MEMB MEMBRANE
BET BETWEEN	MT MARBLE TILE
BITUM BITUMINOUS	MTL METAL
BLK BLOCK	MN MINIMUM
BLKG BLOCKING	MISC MISCELLANEOUS
BD BOARD	MTD MOUNTED
BOT BOTTOM	MTG MOUNTING
BRK BRICK	MUL MULLION
BLDG BUILDING	NOM NOMINAL
CAB CABINET	N NORTH
CIP CAST IN PLACE CONCRETE	NIC NOT IN CONTRACT
CIPC CAST IRON OR CURB INLET	NTS NOT TO SCALE
CI CAST IRON OR CURB INLET	# NUMBER
CB CATCH BASIN	NO NUMBER
CLKG CAULKING	O OVER
CLG CEILING	OBS OBSOLETE
CEM CEMENT	OFF OFFICE
CTR CENTER	OC ON CENTER
CJ CONTROL JOINT	OPNG OPENING
CL CENTER LINE	OPP OPPOSITE
CR CARPET	OSB ORIENTED STRAND BOARD
CT CERAMIC TILE	OD OUTSIDE DIAMETER
CLR CLEAR	OA OVERALL
CLO CLOSET	PT PAINT
COL COLUMN	PTD PAINT OR PAINTED
CONC CONCRETE	PR PAIR
CONN CONNECTION	PNL PANEL
CONST CONSTRUCTION	PBD PARTICLE BOARD
CONSTR CONSTRUCTION MANAGER	PTN PARTITION
CONT CONTINUOUS OR CONTINUE	PB PLASTER BOARD
CONTR CONTRACTOR	PLAS PLASTIC
CORR CORRIDOR	PLAM PLASTIC LAMINATE
CNTR COUNTER	PL PLATE
CNSK COUNTERSUNK	PTC PLUMBING TRADES CONTRACTOR
CRS COURSE	PWD PLYWOOD
DEMO DEMOLISH OR DEMOLITION	PSI POUNDS PER SQUARE INCH
DEPT DEPARTMENT	PC PRE-CAST
DET DETAIL	PCC PRE-CAST CONCRETE
DIA DIAMETER	PT PRESSURE TREATED
DIM DIMENSION	QT QUARRY TILE
DISP DISPENSER	R RADIUS
DIV DIVISION	RWL RAIN WATER LEADER
DR DOOR	RWD REDWOOD
DO DOOR OPENING	REF REFERENCE
DBL DOUBLE	REFR REFRIGERATOR
DS DOWNSPOUT	RGTR REGISTER
DRW DRAWER	REIN REINFORCED
DWG DRAWING	REOD REQUIRED
DF DRINKING FOUNTAIN	RES RESILIENT
DS DRY STANDPIPE	RA RETURN AIR
E EAST	RH RIGHT HAND
EA EACH	ROW RIGHT OF WAY
EIFS EXTERIOR INSULATION FINISH SYSTEM	R RISER
ELEC ELECTRICAL	RD ROOF DRAIN
ETC ELECTRICAL TRADES CONTRACTOR	RM ROOM
EWC ELECTRIC WATER COOLER	RO ROUGH OPENING
EP ELECTRICAL PANELBOARD	RB RUBBER FLOORING AND/OR RUBBER BASE
EL ELEVATION	SECT SECTION
ELV ELEVATOR	SSK SERVICE SINK
ENCL ENCLOSURE	SCHED SCHEDULE
EMER EMERGENCY	SHTG SHEATHING
EP EPOXY PAINT	SH SHEET
EQ EQUAL	SV SHEET VINYL
EQPT EQUIPMENT	SHR SHOWER
EXST EXISTING	SIM SIMILAR
EXP EXPANSION	SC SOLID CORE OR SEALED CONCRETE
EJ EXPANSION JOINT	S SOUTH
EXPO EXPOSED	SPEC SPECIFICATION
EXT EXTERIOR	SQ SQUARE
FOC FACE OF CONCRETE	SS STAINLESS STEEL
FOF FACE OF FINISH	STD STANDARD
FOS FACE OF STUD	STA STATION
FIN FINISH OR FINISHED	STL STEEL
FA FIRE ALARM	STOR STORAGE
FE FIRE EXTINGUISHER	STRL STRUCTURAL
FEC FIRE EXTINGUISHER CABINET	SUSP SUSPENDED
FHC FIRE HOSE CABINET	SA SUSPENDED ACOUSTIC
FRIF FIREPROOF	SYM SYMMETRICAL
FLG FLASHING	T TREAD
FB FLAT BAR STOCK	TEL TELEPHONE
FL FLOOR	TV TELEVISION
FD FLOOR DRAIN	TER TERRAZO
FLUOR FLUORESCENT	TZ TERRAZZO
FT FOOT OR FEET	THK THICK
FTG FOOTING	TC TOP OF CURB
FDN FOUNDATION	TP TOP OF PAVEMENT OR TEXTURED PAINT
FRM FRAME	TW TOP OF WALL
FRMG FRAMING	T&G TONGUE AND GROOVE
FS FULL SIZE	TYP TYPICAL
FURR FURRING	UNF UNFINISHED
FUT FUTURE	UNO UNLESS NOTED OTHERWISE
FW FABRIC WALCOVERING	UR URINAL
GA GAGE OR GAUGE	VB VAPOR BARRIER OR VINYL BASE
GALV GALVANIZED	VERT VERTICAL
GEN GENERAL	VEST VESTIBULE
GC GENERAL CONTRACTOR	VCT/VC VINYL COMPOSITION TILE
GTC GENERAL TRADES CONTRACTOR	VW VINYL WALL COVERING
GL GLASS OR GLAZING	WSCT WAINSCOT
GD GRADE OR GRADING	WC WATER CLOSET
GND GROUND	WMO WALK OFF MAT
GYP GYPSUM	WR WATER RESISTANT
GP GYPSUM BOARD PAINTED	WP WATERPROOF
HDW HARDWARE	WT WEIGHT
HDWD HARDWOOD	W WIDE FLANGE "W16X21"
HDR HEADER	WTD WIDTH
HTG HEATING	WO WITHOUT
HVAC HEATING, VENTILATING, AIR CONDITIONING	WD WOOD
HGT HEIGHT	X EXISTING
HC HOLLOW CORE	
HM HOLLOW METAL	
HORIZ HORIZONTAL	
HB HOSE BIB	
HR HOUR	
INC INCLUDE	
ID INSIDE DIAMETER	
IN INTEGRAL BASE	
INS INSULATION	
INT INTERIOR	
INV INVERT	

Legend

	EARTH
	GRANULAR FILL
	CONCRETE
	CONCRETE MASONRY
	BRICK
	CONCRETE (SURFACE)
	STEEL
	ALUMINUM
	WOOD-ROUGH FRAMING
	WOOD-ROUGH BLOCKING
	WOOD-FINISHED
	PLYWOOD
	GLASS-LARGE SCALE
	GLASS-SMALL SCALE
	ACOUSTIC CEILING SYSTEM
	GYPSUM BOARD
	INSULATION-BATT
	INSULATION-RIGID
	WALL SECTION BUILDING SECTION
	MATCH LINE
	BUILDING ELEVATION
	INTERIOR ELEVATION
	DETAIL

Code Summary

OWNER:
THE CITY OF DUBLIN, OHIO
5200 EMERALD PARKWAY
DUBLIN, OHIO 43017

SITE ADDRESS:
DUBLIN CITY HALL
5200 EMERALD PARKWAY
DUBLIN, OHIO 43017

BUILDING CODES:
OHIO BUILDING CODE
CITY OF DUBLIN ZONING CODE
AMERICANS WITH DISABILITIES ACT
ACCESSIBILITY GUIDELINES
NFPA 101 LIFE SAFETY CODE

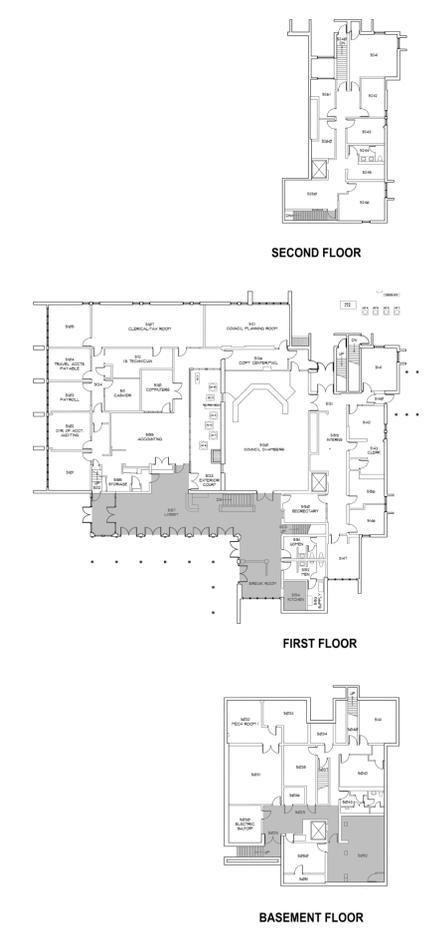
Index Of Drawings

Sheet #	Sheet Name
GENERAL:	
G1.0	COVER SHEET
G1.1	INDEX SHEET
G1.2	PHASING PLANS
ARCHITECTURAL:	
A1.1	PARTIAL ENLARGED PLANS - DEMOLITION & NEW WORK
A2.1	PARTIAL ENLARGED PLANS - REFLECTED CEILING & FFE
A8.1	INTERIOR DETAILS
A9.1	FINISH SCHEDULE AND INTERIOR ELEVATIONS
PLUMBING:	
P1.0	PLUMBING PLANS - DEMOLITION & NEW WORK
P1.1	PLUMBING SPECIFICATIONS
HVAC:	
H1.0	HVAC PLANS - NEW WORK
ELECTRICAL:	
E1.0	ELECTRICAL PLANS - DEMOLITION
E2.0	ELECTRICAL PLANS - NEW WORK
P1.1	ELECTRICAL SCHEDULES & SPECIFICATIONS

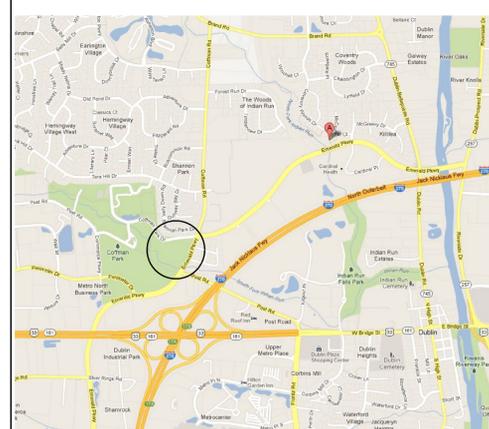
General Notes

- COORDINATE WITH ARCHITECTURAL GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION AND BID ALTERNATES.
- DEMOLITION SHALL BE CONTROLLED AND SCHEDULED TO FOLLOW THE ESTABLISHED CONSTRUCTION SEQUENCE. COORDINATE WITH DRAWINGS AND SPECIFICATIONS FOR SPECIAL REQUIREMENTS AND CONDITIONS.
- CONTRACTOR(S) SHALL FIELD VERIFY THEIR WORK WITH THE DEMOLITION DRAWINGS, NEW CONSTRUCTION DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS. CONTRACTOR(S) ARE RESPONSIBLE TO FIELD VERIFY THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING AND FOR COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS AND FINISHES INDICATED IN THE CONTRACT DOCUMENTS. CONTRACTOR(S) SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE COMMENCING WITH WORK.
- CONTRACTOR(S) SHALL FIELD VERIFY ALL EXISTING FLOOR, AND WALL CONSTRUCTION AND HEIGHTS PRIOR TO COMMENCEMENT OF THE WORK. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND CLEARANCES BEFORE COMMENCING WITH WORK. COMMENCEMENT OF THE WORK CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS. CONTRACTOR(S) SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE COMMENCING WITH WORK.
- CONTRACTOR(S) SHALL MAINTAIN ALL LEGAL EGRESS FROM EXISTING BUILDING.
- THE OWNER RESERVES THE RIGHT TO SALVAGE ANY ITEMS FOR THE OWNER'S USE AND ANY ITEMS NOTED TO BE DISCARDED OFF-SITE. THIS PROCESS SHALL TAKE PLACE IN A TIMELY MANNER BEFORE THE AFFECTED ITEMS ARE TO BE DISCARDED AND THE OWNER SHALL NOTIFY THE CONTRACTOR OF SUCH A DECISION.

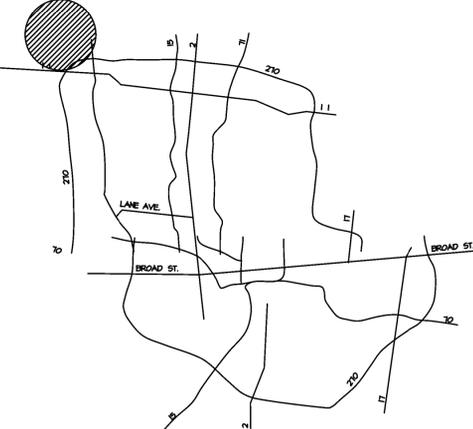
Key Plan



Area Map



Vicinity Map



PLAN LOCATION
NO SCALE

1 PLAN COLUMBUS, OH
NO SCALE

1 E PLAN RENOVATION WORK
AREA LOCATIONS
NO SCALE

#	Date	Change Description

Dublin City Hall Lobby Interior Renovation

City of Dublin
5200 Emerald Parkway
Dublin, Ohio 43017

City of Dublin, Ohio

MOODY NOLAN, INC.
architecture • civil engineering • interior architecture

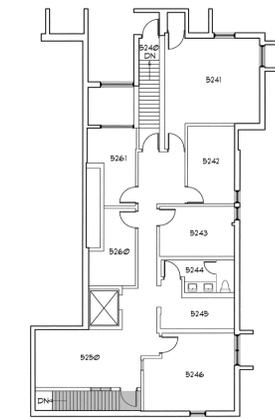
300 Spruce Street Suite 300 Columbus, Ohio 43215
Phone: (614) 461-4664 Fax: (614) 280-8881 www.moodynolan.com

CURTIS J. MOODY REGISTERED ARCHITECT

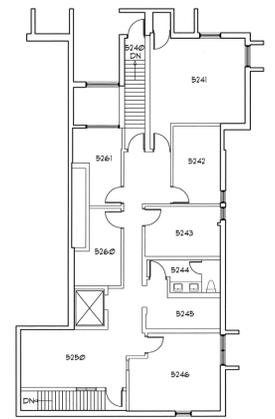
Dwg. Coord.: Proj Arch Intl Tech. Coord.: Proj Asst Intl MN # 12340

INDEX SHEET **G1.1**

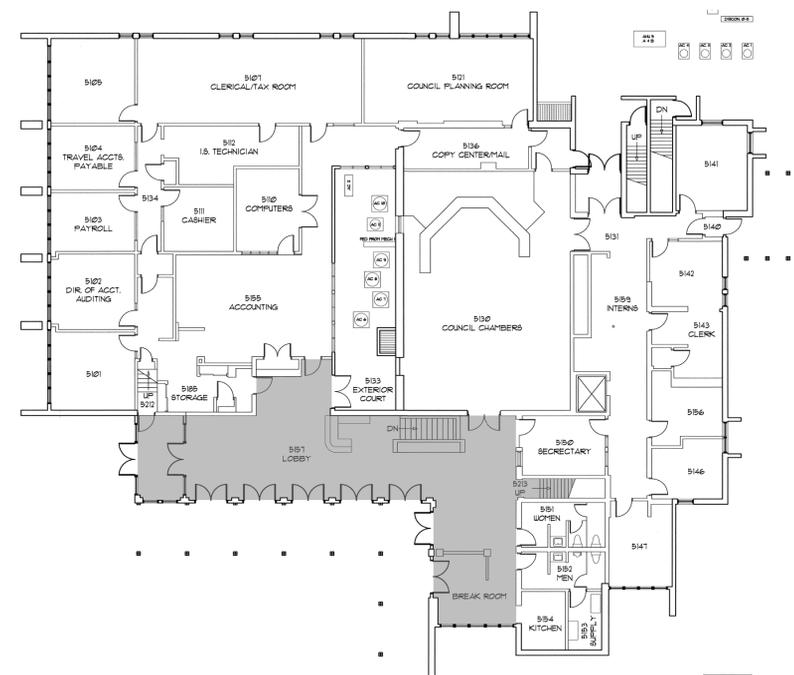
BID / PERMIT SET 3-27-2013



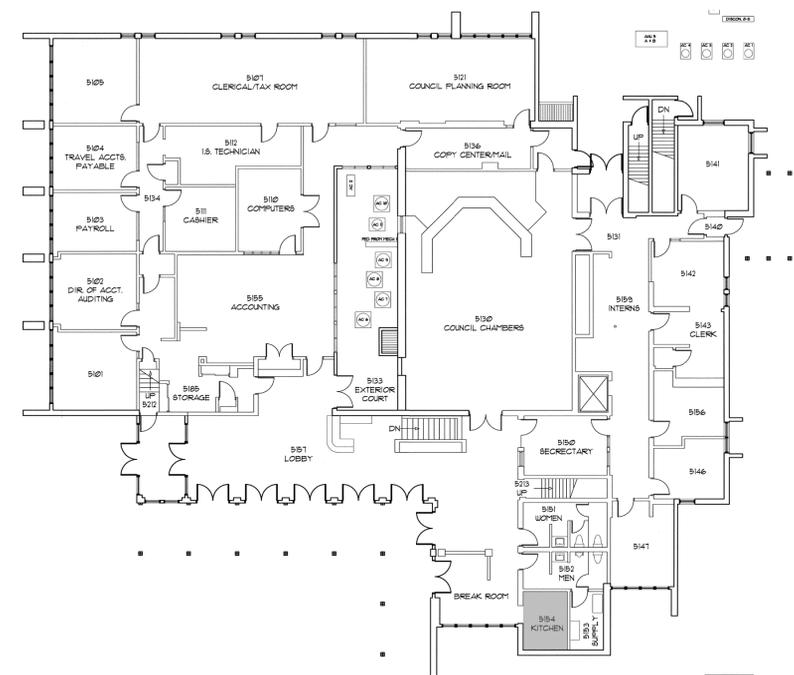
SECOND FLOOR



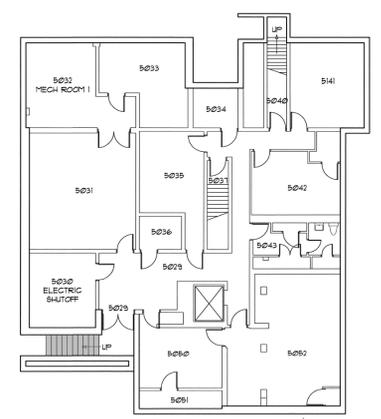
SECOND FLOOR



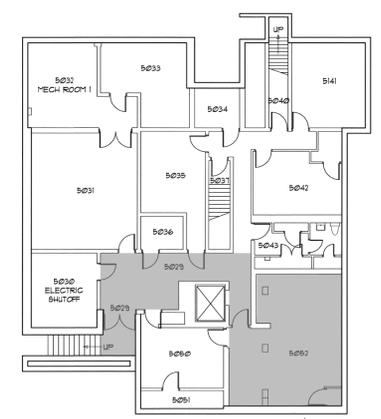
FIRST FLOOR



FIRST FLOOR



BASEMENT FLOOR



BASEMENT FLOOR

Legend

- WORK AREAS
- NO WORK IN THESE AREAS

General Notes

- G-1. ALL WORK IS TO ADHERE TO THE PHASING PLANS AND SCHEDULE.
- G-2. DETAILED PHASING AND SCHEDULING FOR ALL SUB TRADES ARE TO BE COMPLETED BY LEAD CONTRACTOR AND SUBMITTED TO THE OWNER FOR APPROVAL.
- G-3. CONTRACTOR(S) SHALL MAINTAIN ALL LEGAL EGRESS FROM EXISTING BUILDING AT ALL TIME.

#	Date	Change Description

Dublin City Hall Lobby Interior Renovation

5200 Emerald Parkway
Dublin, Ohio 43017

City of Dublin
for
City of Dublin, Ohio

MOODY·NOLAN, INC.
architecture civil engineering interior architecture

300 Spruce Street Suite 300 Columbus, Ohio 43215 Phone: (614) 461-4664 Fax: (614) 280-8881 www.moodynolan.com

CURTIS J. MOODY 7066 REGISTERED ARCHITECT

Dwg. Coord.: Proj Arch Init Tech. Coord.: Proj Asst Init MIN # 12340

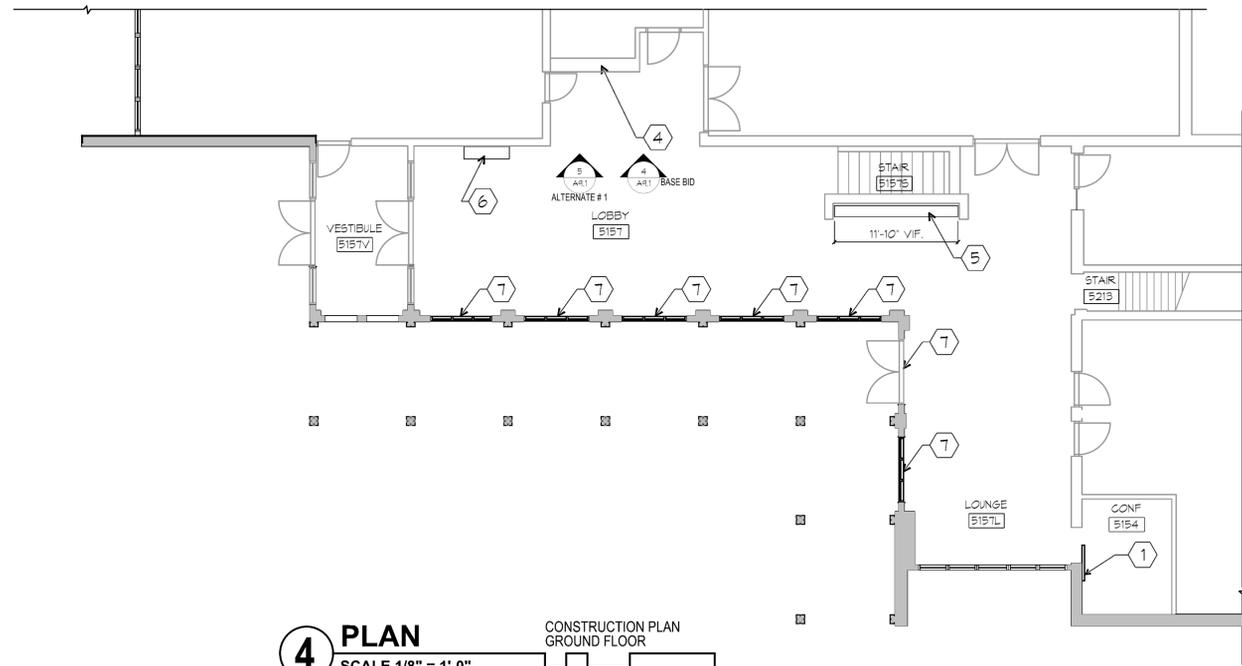
PHASING PLAN **G1.2**

BID / PERMIT SET 3-27-2013

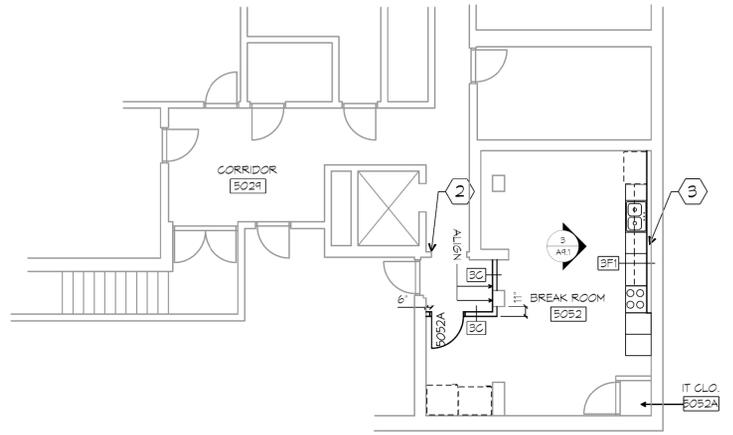
1 PHASE 2 AUGUST 13, 2013 THROUGH SEPTEMBER 6, 2013
NO SCALE

2 PHASE 3 AUGUST 26, 2013 THROUGH SEPTEMBER 23, 2013
NO SCALE

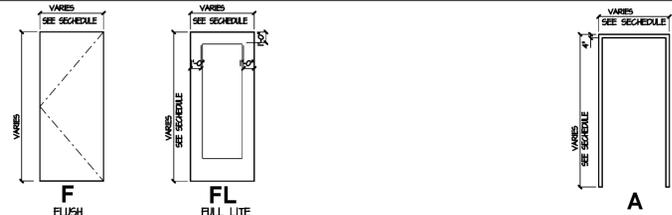
PLOTTED BY: \$USER\$ \$DATE\$ \$TIME\$ \$FILE\$



4 PLAN
SCALE 1/8" = 1'-0"
CONSTRUCTION PLAN
GROUND FLOOR



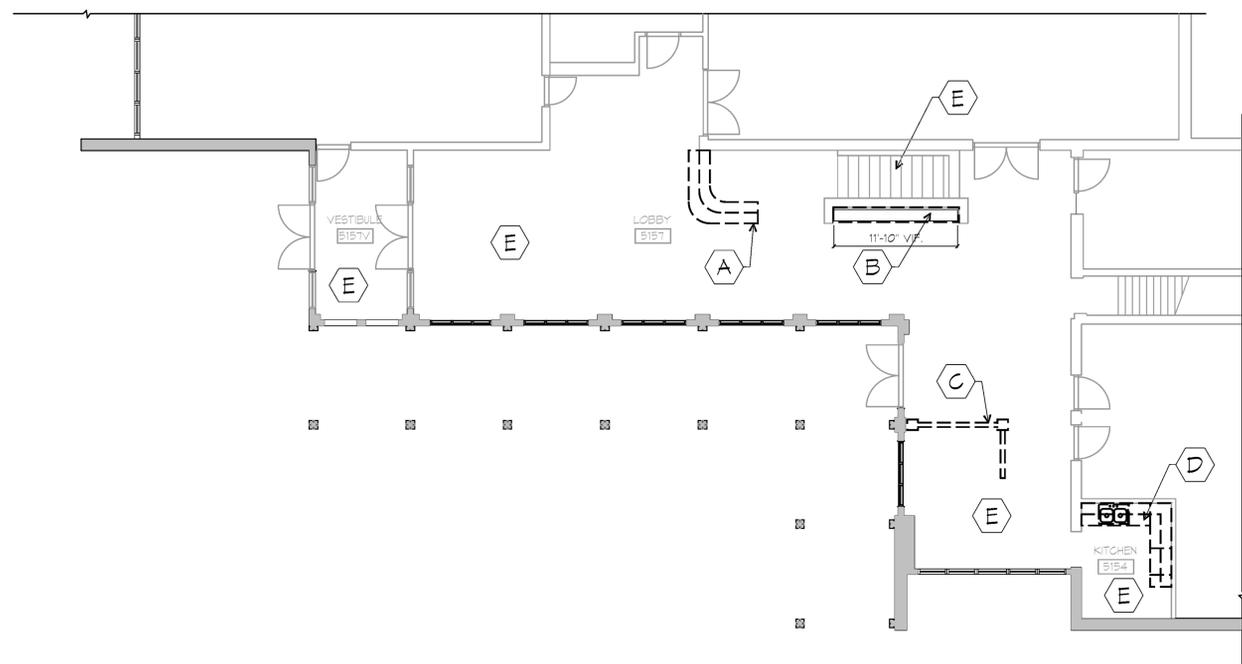
2 PLAN
SCALE 1/8" = 1'-0"
CONSTRUCTION PLAN
BASEMENT



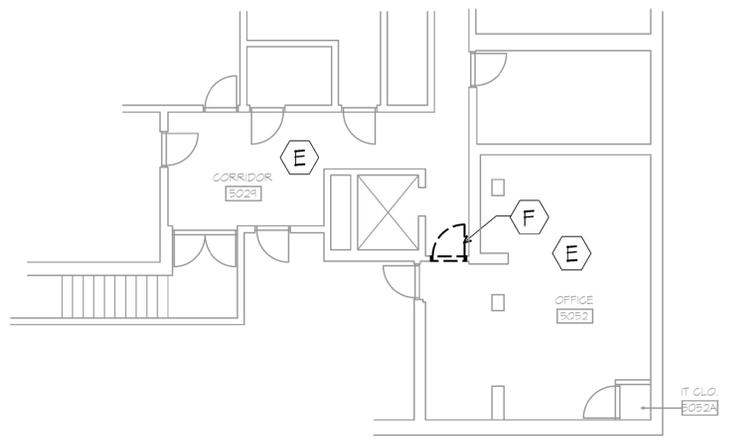
Door and Door Frame Schedule														
NO.	STATUS	DOOR			FRAME			GLASS	FIRE RTG.	HDW SET	DETAILS - SHEET A7.01			REMARKS
		TYPE	MATE RIAL	SIZE	STATUS	TYPE	MATERIAL				HEAD	JAMB	SILL	
5052A	R	F	HM	3'-0" x 6'-10 1/2"	N	A	HM	Tempered		EXIST	3 / A8.1	2 / A8.1		1
5154A	N	FL	SC	3'-6"x7'-0" *	N	AL	AL		*					2, 3, & 4

Remarks

- VIF SIZE OF EXISTING DOOR TO BE RELOCATED.
- EXISTING R.O. SIZE IS 3'-4" W x 6'-10" H.
- NEW SLIDING DOOR - KI GENIUS
- DOOR HARDWARE IS BY MANUFACTURER



3 PLAN
SCALE 1/8" = 1'-0"
DEMOLITION PLAN
GROUND FLOOR



1 PLAN
SCALE 1/8" = 1'-0"
DEMOLITION PLAN
BASEMENT

New Work Coded Notes

- NEW BARN DOOR - KI GENIUS
- PATCH EXISTING MASONRY JAMBS AS REQUIRED AFTER DOOR FRAME REMOVAL. PAINT
- NEW FURRED WALL TO ACCEPT REQUIRED PLUMBING & ELECTRICAL. BLOCKING AS REQUIRED FOR NEW CASEWORK. SEE ELEVATION.
- INFILL FORMER COUNTER OPENING. SEE ELEVATION 4 / A8.1 FOR BASE BID. SEE ELEVATION 5 / A8.1 FOR "ALTERNATE No. 1"
- NEW SOLID SURFACE BENCH TOP. SEE DETAIL 4 / A8.1.
- NEW CUSTOM MILLWORK. SEE DETAIL 1 / A8.1.
- EXISTING DOOR OR WINDOW TO BE PAINTED BY OTHER.

Partition Types

#	ASSEMBLY DESCRIPTION	RATING	TERMINATION REMARKS
1	3 1/2" MTL STUDS @ 16" OC 3/4" GYP BD EACH FACE NOTE: PROVIDE ABUSE-RES. GYP BD @ CLASSROOMS. 3" SOUND ATT. BATT.	0	FULL HEIGHT PARTITION TERMINATE GYP BD AND STUDS AT DECK ABOVE- PROVIDE SOUND BATTIS & DECK FLUTES STC 50
2	3 1/2" MTL STUDS @ 16" OC 3/4" GYP BD ONE FACE 3F1: 3/4" GYP, BD. ONE SIDE ONLY	0	STOP GYP BD AND STUDS BY AFC BRACE PARTITION TO DECK

WALLTYPE NOTES:

- ALL DIMENSIONS TO FACE OF WALL U.N.D.
- USE WATER RESISTANT GYP BD ON ALL WET WALLS.
- USE FOIL FACED GYP BD ON ALL EXTERIOR WALLS
- REFER TO STRUCTURAL DWGS LOAD BEARING WALLS
- USE CEMENT BOARD FOR WALLS TO RECEIVE CERAMIC TILE

Door Schedule Key

STATUS:

E EXISTING TO REMAIN
N NEW
R RELOCATE

MATERIALS

SC SOLID CORE WOOD
HM HOLLOW METAL
AL ALUMINUM FRAMED GLASS

Demolition Coded Notes

- REMOVE EXISTING DESK/FURNITURE. OWNER TO STORE OFF-SITE.
- REMOVE WOOD TOP OF EXISTING BENCH. METAL LEGS TO REMAIN.
- REMOVE EXISTING PARTIAL HT. WALL IN ITS ENTIRETY.
- REMOVE ALL CASEWORK, EQUIPMENT, PLUMBING FIXTURES, SOFFIT, CEILING FROM THIS ROOM.
- REMOVE EXISTING FLOORING; PREP FOR NEW FLOORING MATERIAL PER FINISH SCHEDULE.
- REMOVE EXISTING DOOR AND DOOR FRAME. SALVAGE HM DOOR AND DOOR HARDWARE FOR RELOCATION.

#	Date	Change Description

Dublin City Hall Lobby Interior Renovation

5200 Emerald Parkway
Dublin, Ohio 43017

City of Dublin for
City of Dublin, Ohio

MOODY-NOLAN, INC.
architecture civil engineering interior architecture

300 Spruce Street Suite 300 Columbus, Ohio 43215
Phone: (614) 461-4664 Fax: (614) 280-8881 www.moodynolan.com

STATE OF OHIO REGISTERED ARCHITECT CURTIS J. MOODY 7066

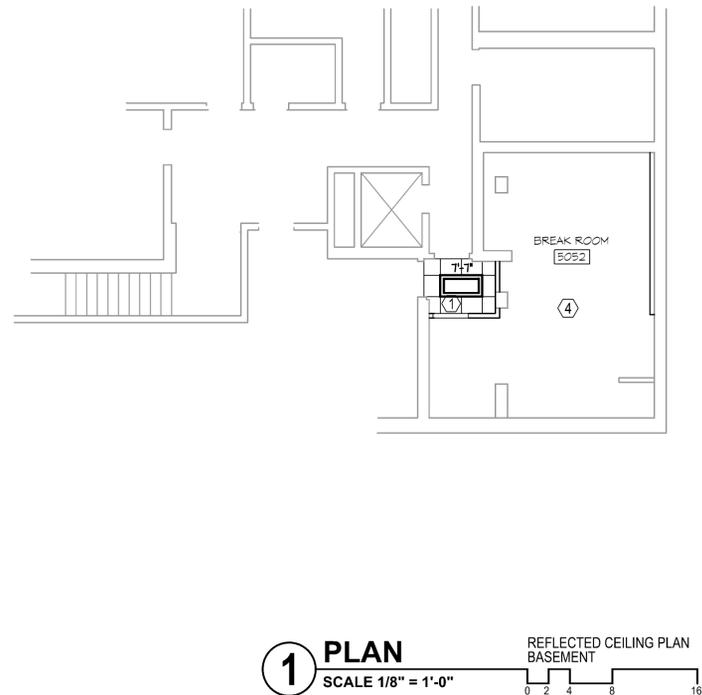
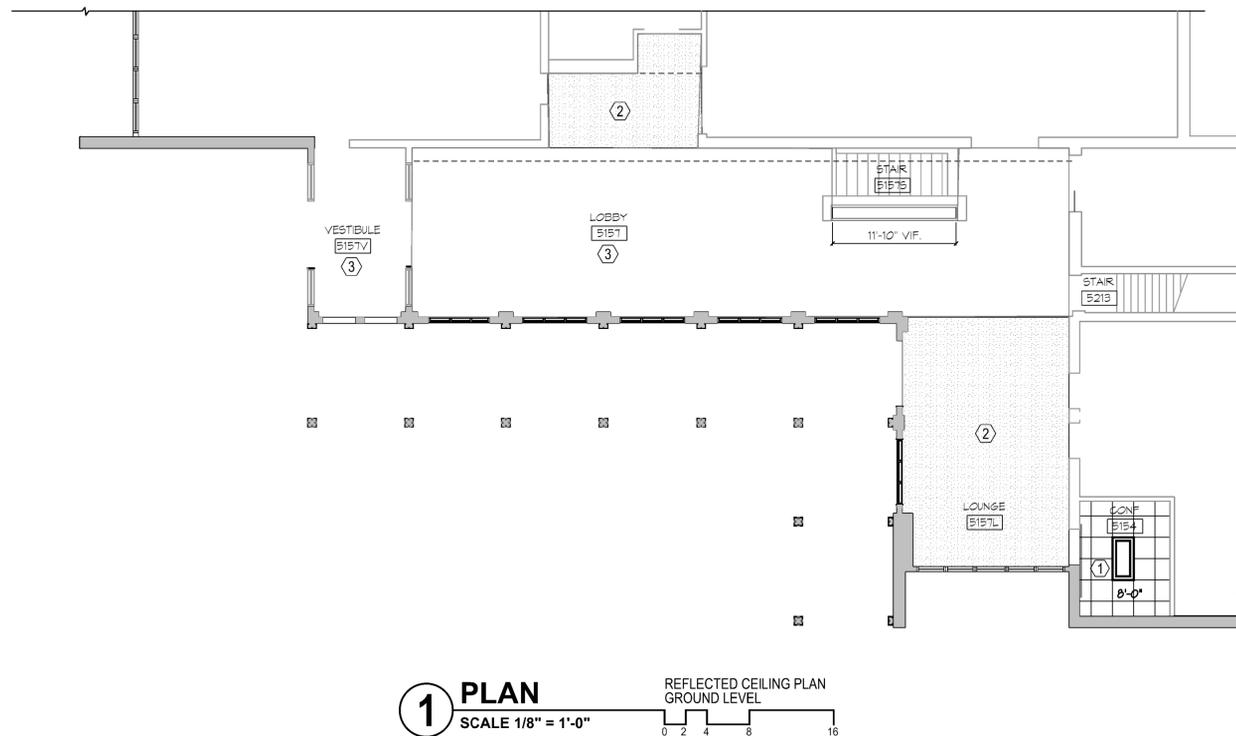
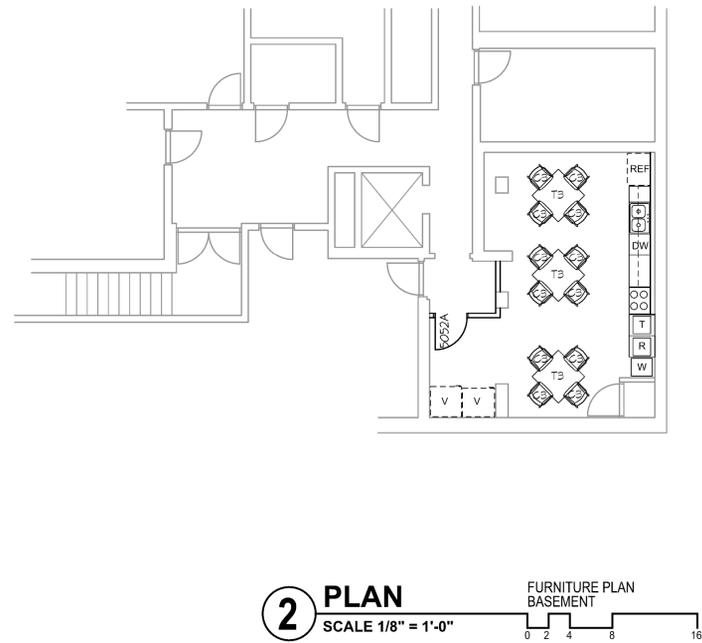
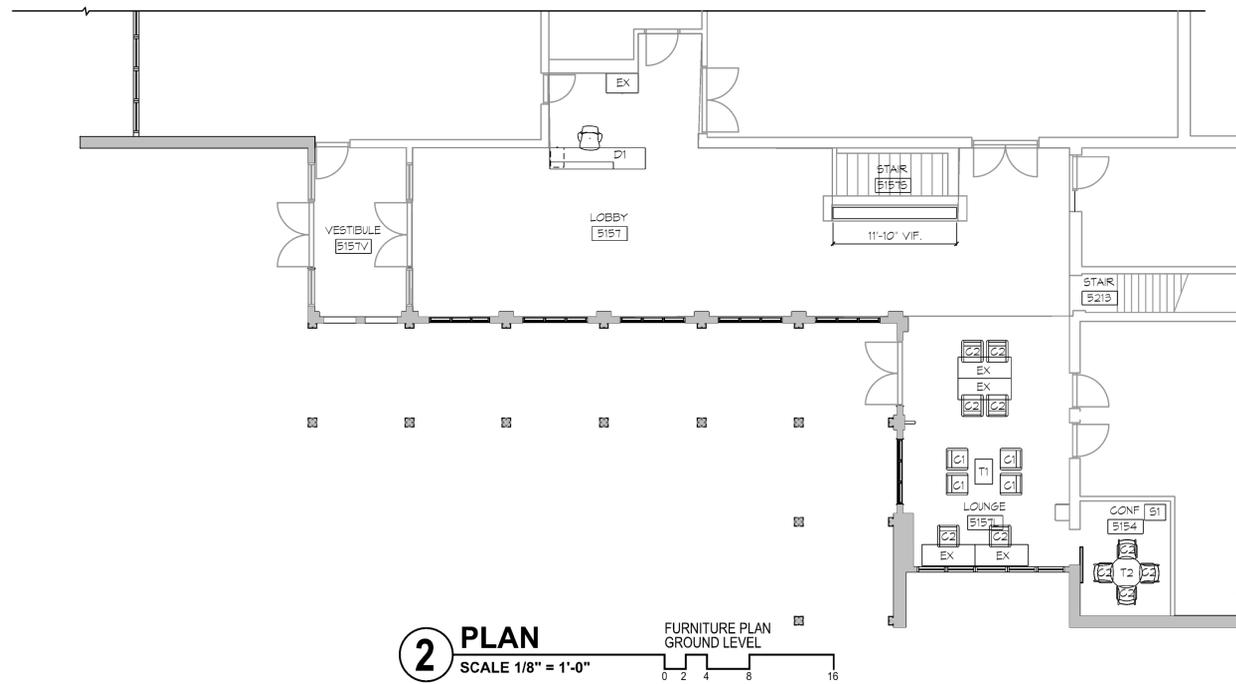
Dwg. Coord.: Proj Arch Init Tech. Coord.: Proj Asst Init M/N # 12340

Partial Enlarged Plan
Demolition & New Work

A1.1

BID / PERMIT SET 3-27-2013

PLOTTED BY: \$USER\$ \$DATE\$ \$TIME\$ \$FILE\$



Ceiling Grid Notes

1. REMOVE AND REPLACE EXISTING ACOUSTIC LAY-IN SYSTEM. SALVAGE, CLEAN AND REINSTALL EXISTING LIGHT FIXTURES AND HVAC DEVICES.
2. EXISTING GYP. BOARD CEILING TO BE PAINTED. CLEAN ALL EXISTING LIGHT FIXTURES AND HVAC DEVICES.
3. EXISTING WOOD CEILING TO REMAIN.
4. EXISTING ACOUSTIC LAY-IN SYSTEM TO REMAIN. ADJUST GRID AT NEW WALLS. REPLACE ANY DAMAGED TILES. CLEAN EXISTING LIGHT FIXTURES AND HVAC DEVICES.

General Notes

- A. FURNITURE PLANS ARE INCLUDED FOR REFERENCE ONLY.
2. COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER, LOCATIONS, AND TYPES OF FIXTURES AND GRILLES.

#	Date	Change Description

Dublin City Hall Lobby Interior Renovation
5200 Emerald Parkway
Dublin, Ohio 43017
City of Dublin
for
City of Dublin, Ohio

MOODY·NOLAN, INC.
architecture civil engineering interior architecture
300 Spruce Street Suite 300 Columbus, Ohio 43215
Phone: (614) 461-4664 Fax: (614) 280-8881 www.moodynolan.com

CURTIS J. MOODY 7066 REGISTERED ARCHITECT

Dwg. Coord.: Proj Arch Init Tech. Coord.: Proj Asst Init MIN # 12340

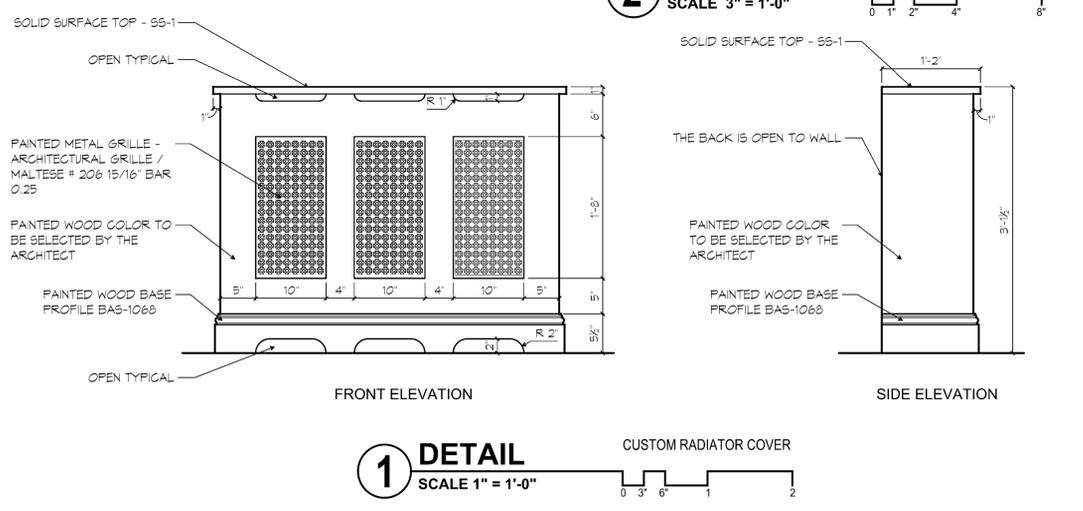
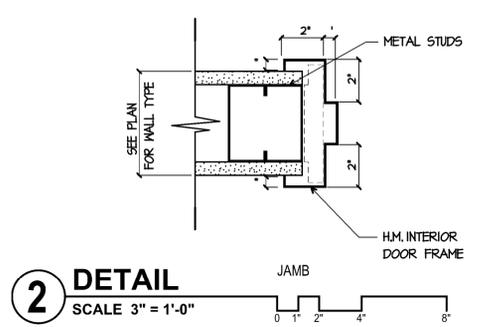
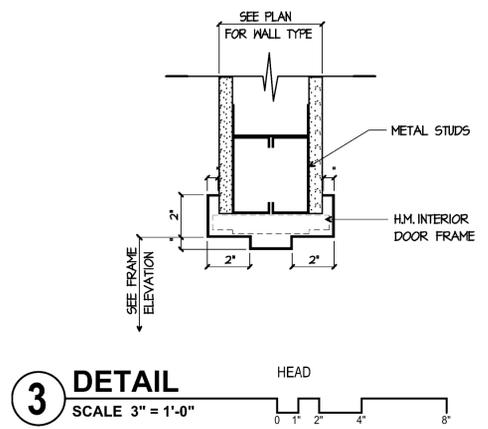
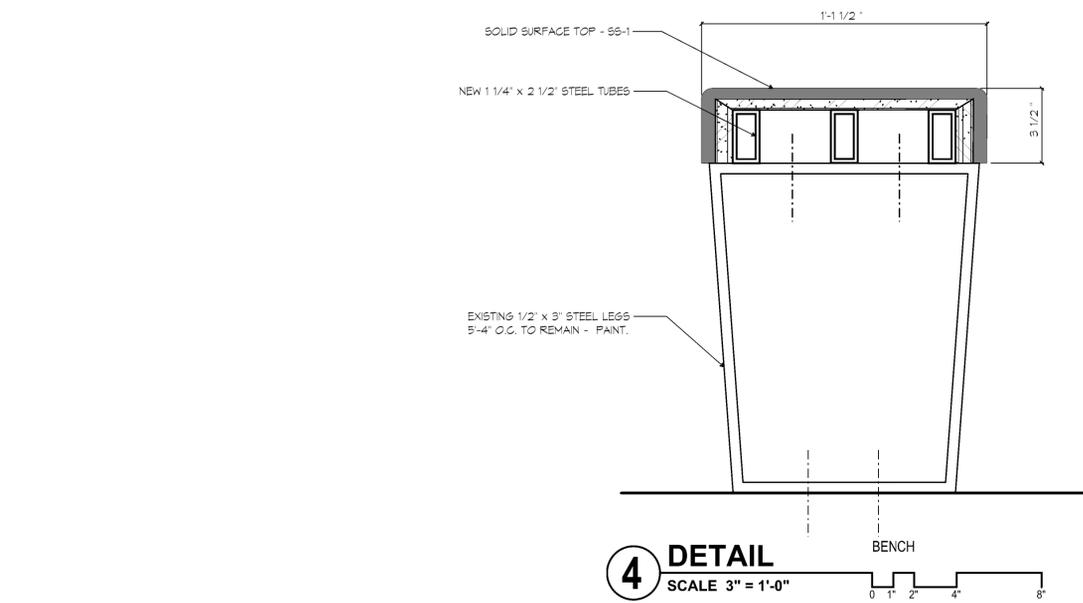
Partial Enlarged Plan
RCP & FURNITURE PLAN

BID / PERMIT SET

A2.1

3-27-2013

PLOTTED BY: \$USER\$ \$DATE\$ \$TIME\$ \$FILE\$



General Notes

#	Date	Change Description

Dublin City Hall Lobby Interior Renovation
 5200 Emerald Parkway
 Dublin, Ohio 43017
 City of Dublin
 for
City of Dublin, Ohio

MOODY-NOLAN, INC.
 architecture civil engineering interior architecture
 300 Spruce Street Suite 300 Columbus, Ohio 43215
 Phone: (614) 461-4664 Fax: (614) 280-8881
 www.moodynolan.com



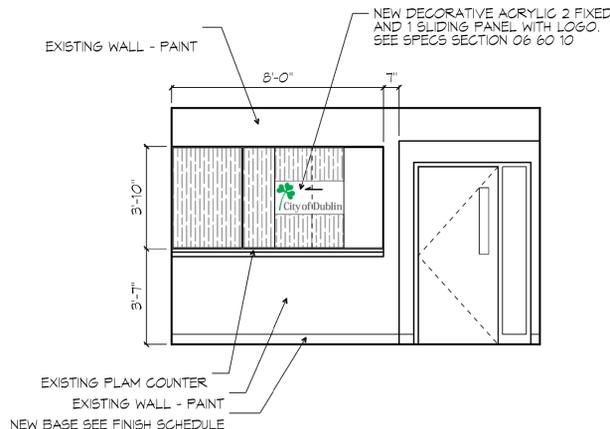
Dwg. Coord.: Proj Arch Init	Tech. Coord.: Proj Asst Init	MIN # 12340
-----------------------------	------------------------------	-------------

BID / PERMIT SET **A8.1**
 3-27-2013

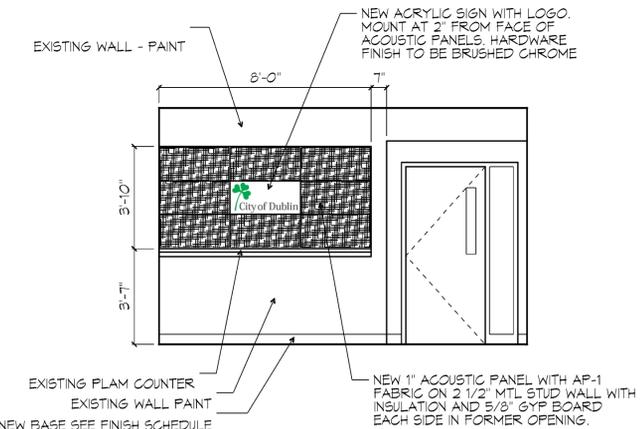
FINISH SCHEDULE

Basement - Room Finish Schedule																*See Reflected Ceiling Plans for Ceiling Materials and Heights
ROOM#	ROOM NAME	FLOOR	BASE		HM DOOR / FRAME		WALLS								CODED REMARKS	
			MAT	COL	FINISH	COL	NORTH	SOUTH	EAST	WEST						
5052	BREAK ROOM	VT	2,3,4	RB	2	PT	1	PT	1	PT	1	PT	1	PT	1	1
5029	CORRIDOR	CR	2	RB	2	PT	1	PT	1	PT	1	PT	1	PT	1	

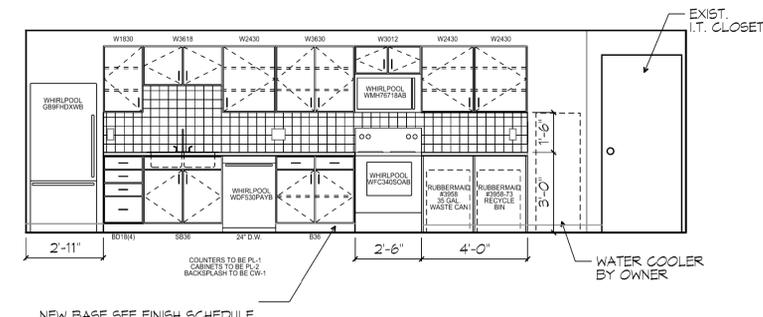
First floor - Room Finish Schedule																*See Reflected Ceiling Plans for Ceiling Materials and Heights
ROOM#	ROOM NAME	FLOOR	BASE		HM DOOR / FRAME		WALLS								CODED REMARKS	
			MAT	COL	FINISH	COL	NORTH	SOUTH	EAST	WEST						
5157V	VESTIBULE	WO	1	RB	1	PT	1	PT	2	PT	2	PT	2	PT	2	2
5154	CONFERENCE ROOM	CR	2	RB	2	PT	1	PT	4	PT	4	PT	4	PT	4	
5157L	LOUNGE	VT	1	RB	1	PT	1	PT	2	PT	5	PT	2	PT	2	3,4
5157	LOBBY	RU	1	RB	1	PT	1	PT	2	PT	2	PT	2	PT	2	3,4
5157S	STAIR (DOWN)	CR	1	RB	1	PT	1	PT	2	PT	2	PT	2	PT	2	
5213	STAIR (UP)	CR	1	RB	2	PT	1	PT	1	PT	1	PT	1	PT	1	



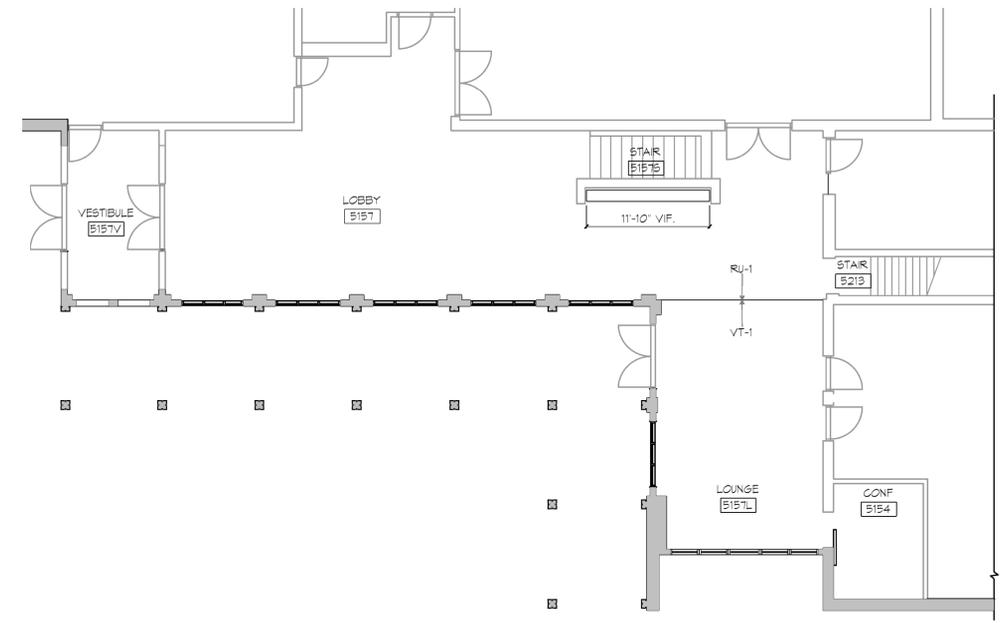
5 ELEVATION ALTERNATE No.1
SCALE 3/8" = 1'-0"



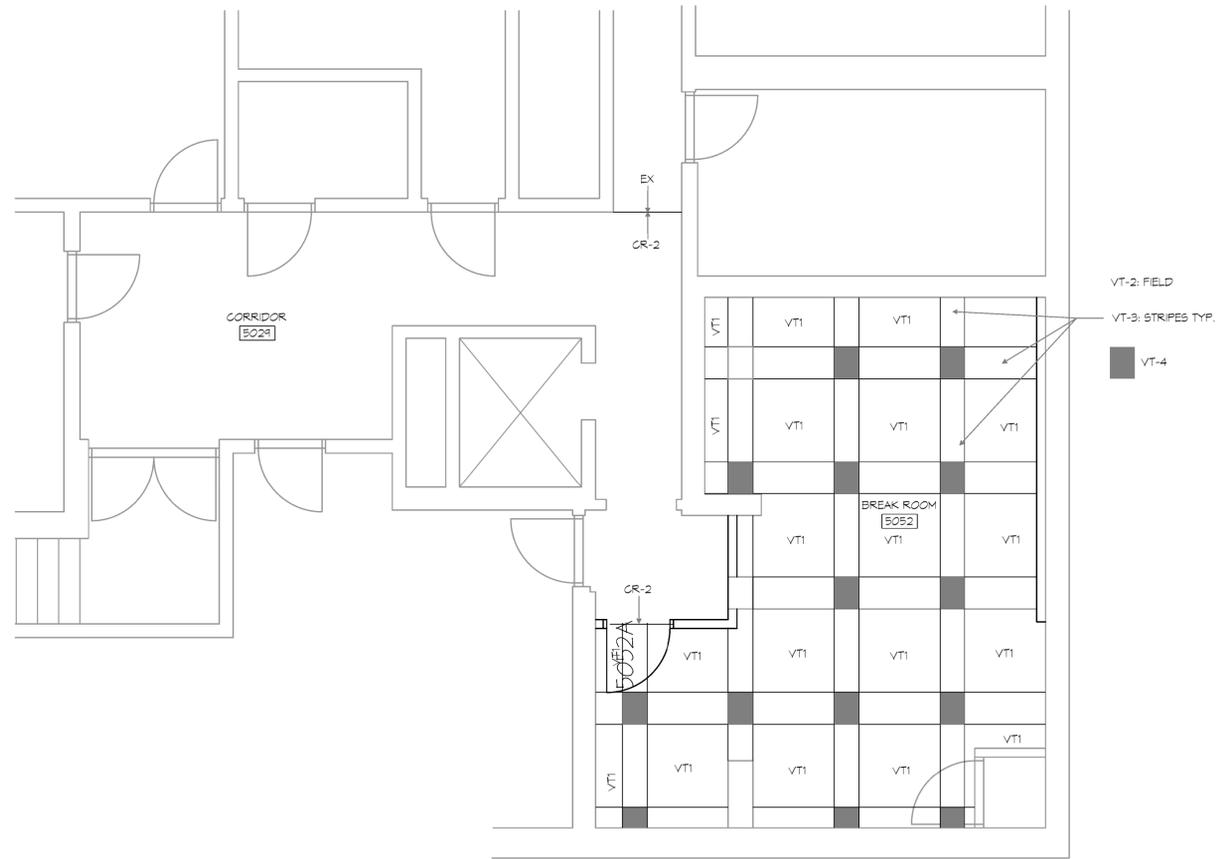
4 ELEVATION BASE BID
SCALE 3/8" = 1'-0"



3 ELEVATION KITCHEN ELEVATION
SCALE 3/8" = 1'-0"



2 PLAN FL 1 PATTERN PLAN
SCALE 1/8" = 1'-0"



1 PLAN BASEMENT FLR PATTERN
SCALE 1/4" = 1'-0"

Finish Legend	
Floors	
Carpet (CR)	
CR-1	(Broadloom) The Mohawk Group, Bigelow, Solve BC300. Color: 7975 Cognition
CR-2	(Carpet Tile) The Mohawk Group, Bigelow, Solve BT300. Color: 7975 Cognition. Vertical Ashlar installation method.
Walk-Off Carpet Tile (WO)	
WO-1	(Carpet Tile) The Mohawk Group, Step-Up DD763/MM0013, 438 Wrought Iron
Vinyl Tile (VT)	
Amico Flooring, Dark Walnut AROW7700, plank format.	
VT-1	Amico Signature Layout: Orthogonal Basket Weave
VT-2	Amico Flooring, Mica Mix Bisque MM42, 12" x 12" Tile
VT-3	Amico Flooring, Mica Mix Eggshell MM41, 12" x 12" Tile
VT-4	Amico Flooring, Composite Flint AR0SGN32, 12" x 12" Tile
Rubber Flooring (RU)	
RU-1	Eco-Surface Rubber Flooring, ECOStudio, color 1207 Sequel. Standard offering rolled goods format.
Base	
Rubber Base (RB)	
RB-1	Johnsonite, Millwork base, Inflection, color: 08 Icicle
RB-2	Johnsonite, continuous 4" rubber base, color: 29 Moon rock
Walls	
Paint (PT)	
PT-1	Sherwin Williams, Alabaster SW7008
PT-2	Sherwin Williams, Mindful Gray SW7016
PT-3	Sherwin Williams, Macadamia SW6142
PT-4	Sherwin Williams, Online SW7072
PT-5	Sherwin Williams, Sotious Gray SW6256
Ceramic Wall Tile (CW)	
CW-1	American Olean, 4" x 4" Bright Wall Tile; 0040 Storm Gray. Grout color to be: Maple 93 Warm Gray
Miscellaneous	
Plastic Laminate (PL)	
PL-1	Wilsonart 7909-60 Fusion Maple (cabinets typ.)
PL-2	Wilsonart 4879-38 Steel Mesh (counters typ.)
Solid Surface (SS)	
SS-1	Corian, Cement
Acoustic Panel Fabric (AP)	
AP-1	Carnegie, Panel Fabric, Double Dutch #5190, color TBD.
Coded Remarks	
1	CW-1 to be backsplash at kitchen counter, see elevation this sheet for extents.
2	VB-1 to be used only on gyp walls, to replace existing base. New door(s), windows, frames do not need to be re-painted. See Arch. plans for locations.
3	Provide vinyl transition (color: brown) at rubber to vinyl flooring. Transition size should be as minimal as possible, and protect rubber edge. Similar to Johnsonite: Slim Line transitions SLT-47-B
4	
General Notes	
1	Gyp. Bd. Ceiling & Soffits to be PT-1, typ.
2	Interior HM or wood frames & existing crown moulding to be painted PT-1 typ.
3	VB is not to be installed over stone walls, typ.

#	Date	Change Description

Dublin City Hall Lobby Interior Renovation
5200 Emerald Parkway
Dublin, Ohio 43017

City of Dublin for
City of Dublin, Ohio

MOODY-NOLAN, INC.
architecture civil engineering interior architecture

300 Spruce Street Suite 300 Columbus, Ohio 43215
Phone: (614) 461-4664 Fax: (614) 280-8881 www.moodynolan.com

CURTIS J. MOODY
REGISTERED ARCHITECT

Dwg. Coord.: Proj Arch Init Tech. Coord.: Proj Asst Init MIN # 12340

FINISH SCHEDULE **A9.1**

BID / PERMIT SET 3-27-2013

PLOTTED BY: \$USER\$ \$DATE\$ \$TIME\$ \$FILE\$
 © 2006 Moody/Nolan Inc.

PLUMBING NOTES

- A. NOTE THAT EXISTING CONDITIONS SHOWN ON PLANS ARE FROM PREVIOUS ENGINEERING DOCUMENTATION AND FIELD OBSERVATION. ACTUAL CONDITIONS MAY VARY, AND MUST BE FIELD VERIFIED BY THIS CONTRACTOR (WHETHER SHOWN OR NOT). THIS CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS AS NECESSITATED BY ACTUAL CONDITIONS, REQUIRED TO COMPLETE INSTALLATION OF NEW ELEMENTS. IF EXISTING CONDITIONS PROHIBIT INSTALLATION OF NEW ITEMS, NOTIFY THE ARCHITECT FOR REDIRECTION AS REQUIRED.
- B. REFER TO ARCHITECTURAL DOCUMENTATION FOR ADDITIONAL SCOPE/ INFORMATION REGARDING DEMOLITION/REMODELING WORK, INCLUDING IDENTIFICATION OF AREAS AND ITEMS INVOLVED, AS WELL AS INFORMATION OF BOTH A GENERAL AND SPECIFIC NATURE.
- C. UNLESS DIRECTED OTHERWISE, WHEN EXISTING PLUMBING ITEMS THAT ARE IN USE PRIOR TO START OF THIS PROJECT DO NOT OBSTRUCT NEW WORK. THE ITEM SHALL REMAIN IN USE DURING THE EXECUTION OF NEW WORK AND AFTER PROJECT COMPLETION. EXISTING PLUMBING ITEMS THAT OBSTRUCT NEW WORK, AND/OR ARE IN EXPOSED LOCATIONS IN REVISED/REMODELED AREAS WHERE NEW CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, SHALL BE REVISED/RELOCATED AS REQUIRED TO CLEAR NEW WORK, AND/OR BE IN A CONCEALED LOCATION.
- D. UNLESS INDICATED OTHERWISE, WHEN EXISTING PLUMBING ITEMS ARE INDICATED TO BE REMOVED, OR ARE NOT TO REMAIN IN USE AFTER PROJECT COMPLETION AND OBSTRUCT NEW WORK, THE ITEM (WHETHER SHOWN ON PLANS OR NOT) AND ALL ASSOCIATED ACCESSORIES AND APPURTENANCES SHALL BE REMOVED. THIS INCLUDES ANY ITEMS ENCOUNTERED IN FIELD TO WHICH THESE DESCRIPTIVE CONDITIONS APPLY. THE FOLLOWING SHALL APPLY TO ITEMS REMOVAL:
1. PIPING (IF ANY) TO BE REMOVED BACK TO NEAREST ACTIVE MAIN/BRANCH REMAINING IN SERVICE AFTER PROJECT COMPLETION, AND OUTSIDE OF ALL EXPOSED LOCATIONS, OR TO WITHIN NEW CONCEALING/FINISH STRUCTURE PROVIDED UNDER SEPARATE CONTRACT, AND CAPPED (AS APPROPRIATE) AT THAT POINT.
- E. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE PLUMBING CONTRACT NOT SPECIFICALLY INTENDED OR IDENTIFIED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.
- F. CUTTING/REMOVAL AND REPAIR/REPLACEMENT OF EXISTING STRUCTURES AND/OR SURFACES REQUIRED BY WORK IN THE PLUMBING CONTRACT IS BY THE PLUMBING CONTRACTOR, UNLESS INDICATED OTHERWISE. REPAIR/ REPLACEMENT TO BE TO ORIGINAL CONDITION, AND TO MATCH ADJACENT SURFACES IN TYPE, KIND AND FINISH. THIS INCLUDES CEILINGS, PARTITIONS, FLOORS, SOFFITS, ETC., BOTH WITHIN AND OUTSIDE THE REVISED/REMODELED AREA(S) THAT ARE AFFECTED BY WORK IN THE PLUMBING CONTRACT. THIS CONDITION DOES NOT APPLY IF EXISTING STRUCTURES AND/OR SURFACES ARE BEING REVISED/REMOVED/REPLACED UNDER SEPARATE CONTRACT.
- G. ALL PIPING SHOWN IS ABOVE CEILING IN AREAS WITH DROPPED CEILINGS, OR AT BOTTOM OF OVERHEAD SUPPORT STRUCTURE IN EXPOSED STRUCTURE AREAS, UNLESS INDICATED OTHERWISE.
- H. THE PLUMBING CONTRACTOR IS TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE PROJECT IN ADVANCE OF WORK (INCLUDING FABRICATION).
- I. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC., REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND REQUIREMENTS PERTAINING TO SAME.
- J. LAYOUT AND INSTALLATION OF PLUMBING CONTRACT PIPING, EQUIPMENT, AND ITEMS INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXACT LOCATION, ROUTING AND INSTALLATION TO BE COORDINATED WITH BUILDING STRUCTURE AND ALL OTHER WORK PROVIDED UNDER SEPARATE CONTRACT.
- K. COORDINATE EXACT LOCATION AND INSTALLATION OF ALL PLUMBING UTILITIES REQUIRED AND PROVIDED FOR WORK UNDER SEPARATE CONTRACT WITH THE APPROPRIATE CONTRACTOR(S) IN ADVANCE OF WORK. THIS INCLUDES SUPPLY AND DRAIN ELEMENTS, FOR DIRECT (PIPED) AND/OR INDIRECT (FLOOR/HUB DRAIN, AIR GAP, ETC.) CONNECTION/SERVICE.
- L. RUN ALL WATER LINES LEVEL.
- M. ROUGH IN ALL PIPING (SUPPLY, WASTE, DRAIN, ETC.) FOR FIXTURES/EQUIPMENT INSTALLATION THRU OR ON FACE OF WALL (AS APPLICABLE), AND TERMINATE WITH SHORT PIPE NIPPLE AND CAP. ROUGH INS AT EXTERIOR WALLS (IF ANY) TO BE ON "WARM" SIDE OF INSULATION ASSEMBLY, AS REQUIRED FOR NON-FREEZE INSTALLATION.
- N. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF COLUMBUS BUILDING CODE, INCLUDING APPLICABLE PLUMBING, MECHANICAL AND HANDICAP ACCESSIBILITY PROVISIONS.
- O. PROVIDE CLEANOUTS AS FOLLOWS:
1. AT THE BASE OF ALL SANITARY STACKS.
 2. IN ALL HORIZONTAL SANITARY PIPING AT INTERVALS NOT TO EXCEED 100 LF. IN LENGTH.
 3. AT CONNECTION POINTS TO EXISTING SANITARY AND VENT PIPING (TEST TYPE CLEANOUTS).
- P. UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMBING SUPPLY PIPING TO BE FURNISHED WITH APPROVED/LISTED STOPS IN ACCESSIBLE LOCATIONS.
- Q. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CASEWORK, EQUIPMENT AND OTHER ITEMS PROVIDED UNDER SEPARATE CONTRACT, INCLUDING EXACT LOCATIONS AND UTILITY CONNECTION REQUIREMENTS. COORDINATE PLUMBING UTILITY WORK AS REQUIRED IN ADVANCE, INCLUDING PLACEMENT OF FITTINGS, ACCESSORIES, APPURTENANCES, DRAINS, ETC.
- R. VERIFY THE EXACT LOCATION AND INSTALLATION REQUIREMENTS FOR ALL DRAINS WITH THE ARCHITECTURAL AND STRUCTURAL DOCUMENTATION FOR PROPER PLACEMENT IN RESPECT TO SLOPES AND STRUCTURE AT EACH DRAIN. COORDINATE INSTALLATION WITH THE APPROPRIATE CONTRACTOR. FINAL INSTALLATION AND LOCATION SUBJECT TO APPROVAL.
- S. PLUMBING PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING ACCESS/ CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN. 30" WIDE), UNDER ANY CIRCUMSTANCES.
1. LOCATION OF NEW ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED FROM INDICATION BY THE PROJECT ELECTRICAL DOCUMENTATION, AND ACTUAL INSTALLATION CONFIRMED WITH THE ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
 2. LOCATION OF EXISTING ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED IN THE FIELD PRIOR TO START OF WORK.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

DURING DESIGN PROCESS ACCESS TO ALL AREAS WAS NOT AVAILABLE. EXISTING PIPING BELOW FLOOR IS A SCHEMATIC OF ESTIMATED ROUTING AND COMMON PRACTICES. VERIFY ACTUAL ROUTING AND MODIFY AS NECESSARY AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL CONTACT THE OWNER'S REP PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE OWNER'S REP. AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT OWNER'S REP. OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

PLUMBING EQUIPMENT

GD-1: GARBAGE DISPOSER
IN-SINK-RATOR BADGER 5 PLUS MODEL 5/8 HP, 120V/1PH. 3 YEAR WARRANTY, GALVANIZED STEEL GRINDING ELEMENTS, STAINLESS STEEL SWIVEL LUGS.

TP-1: TRAP PRIMER VALVE ASSEMBLY
SIMILAR TO SIOUX CHIEF PRIME PERFECT SERIES 695 WITH A MAXIMUM WORKING PRESSURE OF 250 PSIG. PRESSURE ACTIVATED AT A MINIMUM OF 10 PSIG DIFFERENTIAL. 1/2" FEMALE INLET, 1/2" MALE OUTLET, INTEGRAL SEDIMENT SCREEN, DIAPHRAGM ADJUSTMENT NUT, VACUUM BREAKER, FIELD ADJUSTABLE WATER DISCHARGE RATE, CERTIFIED BY THE AMERICAN SOCIETY OF SANITARY ENGINEERING TO ASSE 1018-2001 SPECIFICATIONS, AND LISTED BY THE UPC/APMO. VALVE TO BE FURNISHED WITH DISTRIBUTION MANIFOLD WHERE REQUIRED BY TRAP PRIMER SUPPLY TO MULTIPLE FLOOR DRAINS. MANIFOLD TO SERVE A MAXIMUM OF (8) FLOOR DRAINS WITH INDIVIDUAL/DEDICATED TRAP PRIMER SUPPLY LINE TO EACH FLOOR DRAIN INDICATED. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS.

DRAIN & CLEANOUT SCHEDULE

DES.	LOCATION	DESCRIPTION
C.O.	WALLS OF FINISHED AREA	USE CLEANOUT TEE AND PROVIDE CLEANOUT AND ACCESS COVER SIMILAR TO ZURN Z-1446 WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND ABS PLASTIC THREADED PLUG. SIZE TO SUIT CLEANOUT.
C.O.	FLOORS OF FINISHED AREA	PROVIDE FRAME AND ACCESS COVER SIMILAR TO ZURN ZN-1400 WITH GAS TIGHT BRONZE PLUG, ROUND SORENDOWN ACCESS COVER BOX WITH POLISHED SCORIATED TOP AND ANCHOR LUGS.
C.O.	OUTSIDE	ZURN Z-1400-HD CAST IRON ADJUSTABLE CLEANOUT, COATED CAST IRON INTERNAL PLUG WITH LEAD SEAL AND HEAVY-DUTY LOOSE-SET SCORIATED ROUND CAST IRON TRACTOR COVER SIZE TO SUIT CLEANOUT.
C.O.	ALL OTHER CLEANOUTS	ZURN ZB-1470 FLUSH WITH FLOOR OR WALL AND HAVE COUNTER-SUNK BRASS HEADS
FD-1	FINISHED AREA FLOOR DRAIN	ZURN ZN415 CAST IRON FLOOR DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES, BOTTOM CAULK OUTLET WITH TYPE BZ SIZE 6/8" DIAMETER POLISHED NICKEL BRONZE LEVELING STRAINER. FURNISH WITH CLAMPING COLLAR EXCEPT FLOOR DRAINS IN ON-GRADE LOCATIONS.

PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE NOTES:

1. UNLESS INDICATED OTHERWISE, THE ARCHITECT SHALL SELECT THE FIXTURE COLOR/FINISH FROM THE MANUFACTURER'S FULL RANGE OF STANDARD OPTIONS.
2. UNLESS INDICATED OTHERWISE, ALL EXPOSED METALLIC COMPONENTS TO BE FURNISHED WITH POLISHED CHROME FINISH, INCLUDING FAUCETS, TRAPS, STOPS, PIPING, ETC.
3. UNLESS INDICATED OTHERWISE, ALL EXPOSED PIPING SHALL BE FURNISHED WITH POLISHED CHROME FINISH BRASS ESCUTCHEONS AT ALL WALL/CABINET PENETRATIONS AND FIXTURE CONNECTIONS.

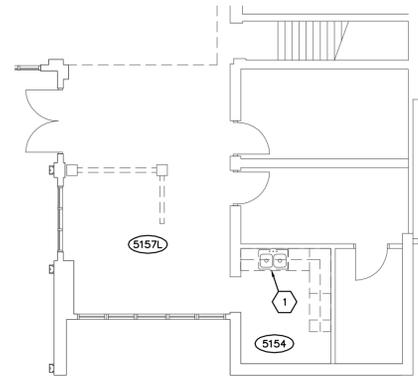
FIXTURE	MANUFACTURER	REMARKS	PIPE SIZE	
			CW	HW
S-1	ELKAY.	<p>FIXTURE: DOUBLE COMPARTMENT; ELKAY MODEL NO. LRAD-3319</p> <p>CONTROLS: CHICAGO FAUCET NO. 200-ACP, CHROME PLATED FAUCET, 8" CENTERS, RIGID/SWING SPOUT, 2-3/8" LEVER HANDLES, AERATOR 2.2 GPM FLOW RATE, W/ HAND SPRAY.</p> <p>DRAIN: ELKAY MODEL NO. LK-358 BASKET STRAINER AND TAILPIECE</p> <p>TRAP: MCGUIRE MODEL 8912 1 1/2"x1 1/2" 17 GA. P-TRAP, CHROME PLATED</p> <p>STOP(S): MCGUIRE MODEL 2165 1/2" LAVATORY SUPPLIES W/ WHEEL HANDLE BRASS ANGLE STOPS & COPPER FLEX TUBE RISERS. ALL CHROME PLATED</p> <p>STOP(S): MCGUIRE MODEL ST17-SS16; STRAIGHT SUPPLY STOP, 1/2" COMPRESSION INLET, 3/8" COMPRESSION OUTLET W/ WHEEL HANDLE & BRAIDED STAINLESS STEEL FLEXIBLE RISERS.</p> <p>DISPOSER: PROVIDE GD-1 ON SINK DRAIN WITH DISHWASHER DRAIN CONNECTION PORT.</p>	1/2"	1/2"

PLUMBING ABBREVIATIONS

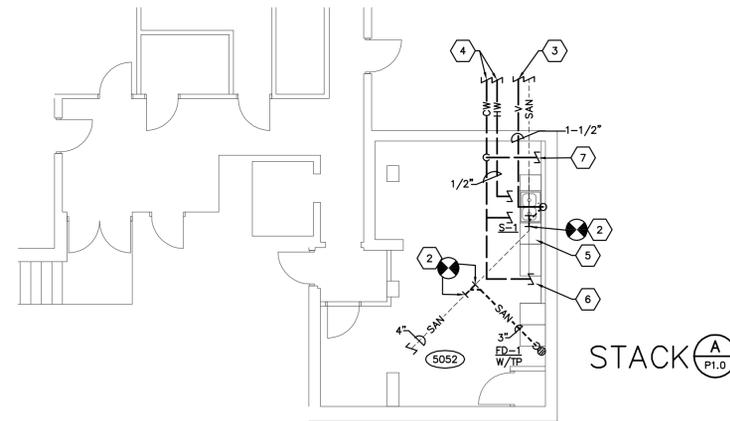
AB.	ABOVE	F.V.	FLUSH VALVE
A.F.F.	ABOVE FINISHED FLOOR	F.D.	FLOOR DRAIN
CLG.	CEILING	LAV.	LAVATORY
C.O.	CLEAN OUT	PRESS.	PRESSURE
CONN.	CONNECT	REQD.	REQUIRED
CONTR.	CONTRACTOR	RM.	ROOM
ELEC.	ELECTRICAL	THERM.	THERMOMETER
E.W.C.	ELECTRIC WATER COOLER	TYP.	TYPICAL
EXIST.	EXISTING	UR.	URNAL
FLR.	FLOOR	WC	WATER CLOSET

PLUMBING LEGEND

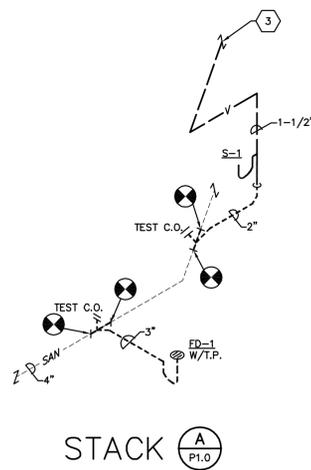
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— CW —	DOMESTIC COLD WATER LINE	— U —	PIPE BRANCH TOP CONNECTION
— D —	DRAIN LINE	— B —	PIPE BRANCH BOTTOM CONNECTION
— F —	FIRE PROTECTION LINE	— F —	PIPE FLANGES
— HW —	HOT WATER LINE (DOMESTIC)	— U —	PIPE UNION
— SAN —	SANITARY LINE	— V —	PIPE VALVE
— V —	VENT LINE	— V —	DRAIN VALVE WITH HOSE END
— OG —	P-TRAP (PLAN VIEW)	— O —	FLOOR OR AREA DRAIN
— C —	CAPPED LINE	— T —	THERMOMETER
— — —	EXISTING WORK TO REMAIN	— C —	CONNECT TO EXISTING
— - - -	EXISTING WORK TO BE REMOVED	— T —	THRU FLOOR AS SHOWN



GROUND LEVEL PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



BASEMENT PLUMBING PLAN
SCALE: 1/8" = 1'-0"



CODED NOTES

1. EXISTING SINK TO BE REMOVED. DISCONNECT ALL EXISTING SANITARY, VENT, HW AND CW PIPING BACK TO NEAREST ACTIVE MAINS AND CAP.
2. CONNECT NEW SAN TO EXISTING SANITARY BELOW FLOOR. P.C. TO FIELD VERIFY LOCATION OF EXISTING SAN AND MAKE NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST.
3. CONNECT NEW 1-1/2" VENT TO EXISTING VENT PIPING ABOVE CEILING IN ADJACENT BATHROOM. P.C. TO FIELD VERIFY LOCATION OF EXISTING VENT AND MAKE NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST.
4. CONNECT 1/2" HW/CW TO EXISTING 1/2" HW/CW ABOVE CEILING IN ADJACENT BATHROOM. P.C. TO FIELD VERIFY LOCATION OF EXISTING PIPING AND MAKE NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST.
5. DISHWASHER PROVIDED BY OTHERS. THIS CONTRACTOR TO EXTEND 1/2" HW TO UNIT FROM SINK SUPPLY DROP IN CASEWORK BELOW SINK AND MAKE FINAL CONNECTION. PROVIDE BALL VALVE, BACKFLOW PREVENTER, AND 3 L.F. TUBING COIL IN CASEWORK ADJACENT TO UNIT. BACKFLOW PREVENTER TO BE SIMILAR TO WATTS SERIES 7. INSTALLATION, INCLUDING EXACT LOCATION OF DISHWASHER TO BE COORDINATED WITH OWNER/ARCHITECT IN ADVANCE OF WORK.
6. EXTEND CW PIPING DOWN IN WALL TO WATER COOLER. PROVIDE CHROME WALL ESCUTCHEON AND CHROME PLATED BRASS SHUT-OFF ANGLE VALVE. PROVIDE INLINE DUAL CHECK BACKFLOW PREVENTER SIMILAR TO WATTS NO. 7.
7. REFRIGERATOR PROVIDED BY OTHERS. THIS CONTRACTOR TO EXTEND 1/2" CW TO ICE MAKER FROM SINK SUPPLY DROP IN CASEWORK BELOW SINK AND MAKE FINAL CONNECTION TO UNIT. PROVIDE BALL VALVE, BACKFLOW PREVENTER, AND 3 L.F. TUBING COIL ON WALL BEHIND REFRIGERATOR. BACKFLOW PREVENTER TO BE SIMILAR TO WATTS SERIES 7. INSTALLATION, INCLUDING EXACT LOCATION OF REFRIGERATOR TO BE COORDINATED WITH OWNER/ARCHITECT IN ADVANCE OF WORK.



#	Date	Change Description

Dublin City Hall Lobby Interior Renovation
8200 Emerald Parkway
Dublin, Ohio 43017
City of Dublin, Ohio

MOODY-NOLAN, INC.
architecture • civil engineering • interior architecture
300 Spruce Street Phone: (614) 461-4664
Suite 300 Fax: (614) 280-8881
Columbus, Ohio 43215 www.moodynolan.com

Dwg. Coord.: Tech. Coord.: M/N # 12340

PLUMBING NEW WORK PLANS **P1.0**

BID / PERMIT SET 3-27-2013

P1-0-13031.DWG

PRATER
Engineering Associates, Inc.

6130 Wilcox Road (614) 766 4896
Dublin, Ohio 43016 FAX: (614) 766 2354

DESIGNED BY MAM	DRAWN BY MAM	CHECKED BY JK	JOB NUM. 13031
--------------------	-----------------	------------------	-------------------

MECHANICAL SPECIFICATIONS

I. GENERAL CONDITIONS

A. GENERAL

- EXCEPT AS SPECIFIED TO THE CONTRARY, THIS CONTRACT SHALL INCLUDE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS PART OF MECHANICAL SYSTEMS.
- GENERAL AND SPECIAL CONDITIONS OF AIA (AMERICAN INSTITUTE OF ARCHITECTS) AND OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.
- THE REQUIREMENTS SET FORTH UNDER "GENERAL CONDITIONS", "MODIFICATIONS TO GENERAL CONDITIONS" AND "SPECIAL CONDITIONS" ARE A PART OF THIS CONTRACT.
- THIS CONTRACT SHALL INCLUDE A VISIT TO THE JOB SITE AND TAKE INTO CONSIDERATION MECHANICAL, ELECTRICAL AND GENERAL TRADE WORK IN PLACE AND WORK TO BE PUT INTO PLACE PRIOR TO BIDDING. REROUTING OF DUCTWORK, PIPING AND EQUIPMENT AS REQUIRED, TO MISS THIS WORK SHALL BE ACCOMPLISHED AT NO ADDITIONAL COST TO THE OWNER.
- ALL MOTORS FOR SUCH EQUIPMENT (IF AND WHERE SPECIFIED ON DRAWINGS) SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT. CONTROLS FOR SUCH MOTORS SHALL BE FURNISHED UNDER THIS CONTRACT AND INSTALLATION OF CONTROLS AND ALL ELECTRICAL WIRING, NOT SHOWN ON ELECTRICAL DRAWINGS, SHALL BE PERFORMED UNDER THIS CONTRACT.

B. SUBSTITUTIONS AND MISCELLANEOUS EQUIPMENT

- THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN, WHERE ONE OR MORE NAMES OF MANUFACTURERS ARE MENTIONED ANY ONE MAY BE UTILIZED.
- ALTERNATE EQUIPMENT MAY BE BID AS A SUBSTITUTION TO THAT SPECIFIED WITH THE APPROPRIATE DEDUCT NOTED, HOWEVER, THE EQUIPMENT SUBSTITUTED SHALL MEET ALL SPECIFICATIONS IN DESIGN AND BE SUBJECT TO OWNER AND/OR ENGINEER APPROVAL. ANY ADDITIONAL COST INCURRED DUE TO SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE PIPING SYSTEMS SUCH AS FITTING, HANGERS, ETC., CAN BE OF ANY RECOGNIZED MANUFACTURER PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET BY THE ENGINEER.

C. ORDINANCES, PERMITS, AND CERTIFICATES AND OWNER REQUIREMENTS

- ALL WORK UNDER THIS CONTRACT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE OWNER'S REQUIREMENTS, ALL LAWS, ORDINANCES AND ALL REGULATIONS OF THE STATE, COUNTY, AND MUNICIPALITY WHICH IN ANY WAY AFFECTS THIS WORK. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY THE FOREGOING GOVERNMENTAL AUTHORITIES. ALL WORK SHALL ALSO BE INSTALLED IN ACCORDANCE WITH REGULATIONS OF THE FIRE UNDERWRITERS HAVING JURISDICTION AND LOCAL UTILITIES. CONTRACTOR SHALL ALSO SECURE ANY PERMITS OR PAY ANY FEES TO THE LOCAL UTILITY COMPANIES FOR THE WORK REQUIRED.

D. DRAWINGS

- MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATION OF OUTLETS, EQUIPMENT AND PIPING.
- THE EXACT LOCATION OF OUTLETS, EQUIPMENT AND PIPING MAY BE CHANGED FROM TIME TO TIME AS WORK PROGRESSES. UNDER THIS CONTRACT ALL LOCATIONS SHALL BE VERIFIED WITH ALL TRADES AND THAT THEY ARE ACCORDING TO THE LATEST INFORMATION AVAILABLE. SHOULD THIS NOT BE DONE THE WORK WILL BE CHANGED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE OWNER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN LOCATIONS OF EQUIPMENT OR PIPING ARRANGEMENTS UP TO THE TIME OF ROUGH-IN WITHOUT ADDITIONAL COSTS.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIALS OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED EVEN THOUGH NOT MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED UNDER THIS CONTRACT.
- ALL EXISTING UTILITY AND MECHANICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- AS PART OF THIS WORK THE CONTRACTOR SHALL SUBMIT THREE (3) BLUE LINE SETS AND ONE SET OF SEPIAS OF AS BUILT DRAWINGS INDICATING THE EXACT LOCATION OF ALL WORK INSTALLED. ACCEPTANCE SHALL NOT OCCUR UNTIL RECEIPT OF THESE DRAWINGS IS OBTAINED BY THE OWNER.

E. SHOP DRAWINGS

- AS PART OF THE WORK INCLUDED UNDER EACH MECHANICAL SECTIONS, WITHOUT CAUSING ANY DELAY IN WORK, SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIAL SHALL BE SUBMITTED FOR ENGINEER'S REVIEW.
- SUBMITTAL SHALL INCLUDE WIRING DIAGRAMS, PERFORMANCE CURVES AND DATA SPECIFIC TO THIS PROJECT AND BEAR CONTRACTOR'S APPROVAL STAMP CERTIFYING THAT HE HAS VERIFIED CONFORMANCE TO THE CONTRACTUAL DOCUMENTS.
- IN THE ENGINEER'S REVIEW OF SHOP DRAWINGS AND REVIEW IS FOR CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND ARRANGEMENT ONLY. COMMENTS, CORRECTIONS OR MARKINGS DO NOT CONSTITUTE WAIVER OF THE CONTRACT DOCUMENTS REQUIREMENTS, DIMENSIONS, QUANTITIES AND COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

F. CLEANING UP

- UNLESS OTHERWISE NOTED, ALL EXCESS MATERIALS AND DEBRIS CAUSED BY THIS WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROMPTLY BE REMOVED FROM THE SITE. ALL FIXTURES AND EQUIPMENT INSTALLED SHALL BE THOROUGHLY CLEANED WEEKLY. ALL MOTORS AND EQUIPMENT SHALL BE COVERED OR OTHERWISE PROTECTED FROM CONSTRUCTION DUST AND DEBRIS. EQUIPMENT OTHER THAN THOSE DESIGNATED TO ARE TO BE EXPOSED TO INCLEMENT WEATHER.

G. CUTTING AND PATCHING

- CUTTING FOR OPENINGS, WHEN NECESSARY, SHALL BE DONE BY THIS CONTRACTOR WITH SUCH TOOLS AND METHODS AS TO PREVENT UNNECESSARY DAMAGE TO SURROUNDING AREAS OR EQUIPMENT.
- FILL SPACE IN ALL AREAS PACKING WHERE REQUIRED TO MAINTAIN FIRE RATING. OPENINGS SHALL BE TEMPORARILY FIRE STOPPED UNTIL PERMANENT FIRE STOPPING IS DONE. THIS INCLUDES HOLES LEFT DUE TO REMOVAL OF PIPING.
- PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH, AND SHALL BE DONE BY THE GENERAL CONTRACTOR.
- NO STRUCTURAL MEMBER WILL BE CUT INTO WITHOUT THE EXPRESSED PERMISSION OF THE OWNER'S REPRESENTATIVE.

H. FIRE STOPPING

- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING AROUND ALL OPENINGS FOR PIPES, DUCTS, CONDUITS ETC., INSTALLED HIM AT ALL FIRE WALLS AND SMOKE WALLS. FIRE STOPPING SHALL BE PERFORMED BY AN INSTALLER WHO HAS BEEN TRAINED BY MANUFACTURER, OR MANUFACTURER'S REPRESENTATIVE, IN THE INSTALLATION PROCEDURES BASED ON PUBLISHED UL TESTED FIRE STOP SYSTEMS.
- FIRE STOPPING MEET THE REQUIREMENTS OF ASTM E-814 OR UL 1479 FIRE TESTS BY RECOGNIZED TESTING AGENCY. FIRE STOPPING SHALL ALSO CONFORM BY THE FOLLOWING GOVERNING CODES: OHIO BASIC BUILDING CODE, NFPA 101- LIFE SAFETY CODE & NFPA 70 - NATIONAL ELECTRIC CODE.

3. PENETRATION

- CLEAN PENETRATION HOLES OF DIRT, LOOSE MATERIALS, AND FOREIGN MATTER WHICH MAY AFFECT BOND OR INSTALLATION.
- REMOVE COATINGS SUCH AS PAINT, CURING COMPOUNDS, WATER REPELLENT, SEALERS AS REQUIRED.
- INSTALL BACKING MATERIALS TO PREVENT LIQUID MATERIAL LEAKAGE.

4. APPLICATION

- PREPARE AND APPLY PENETRATION SEALING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- EMPLOY INSTALLATION TECHNIQUES WHICH WILL ENSURE THAT FIRE STOPPING IS DEPOSITED TO FILL AND SEAL HOLES AND OPENINGS.
- TOOL EXPOSED SURFACES OF APPLIED SEALANT TO SMOOTH FINISH.
- PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECT TO TRAFFIC.
- FIRE STOPPING BY DOW CORNING, 3M, HILTI OR METACAULK MAY FURNISHED AT THE CONTRACTOR'S OPTION.

I. GUARANTEE

- ALL LABOR AND MATERIALS FURNISHED UNDER THIS CONTACT SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER WHICH WILL COMMENCE UPON THE FINAL INSPECTION BY THE ENGINEER. DURING THIS TIME, ALL CLAIMS, CORRECTION OF ALL THE FAILURES TO SUCH MATERIAL AND THE CORRECTION OF ALL DISCREPANCIES WITH DRAWING CODE AND THE SPECIFICATIONS SHALL BE DONE UNDER THIS CONTRACT AT NO ADDITIONAL EXPENSE TO THE OWNER.

J. RECORD DRAWINGS

- THE CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL DEVIATIONS FROM CONTRACT DRAWINGS AND SPECIFICATIONS. HE SHALL NEATLY AND CORRECTLY ENTER IN COLORED PENCIL ANY DEVIATIONS ON DRAWINGS. AT COMPLETION OF THE PROJECT DELIVER DRAWINGS TO OWNER'S REPRESENTATIVE.

II. HVAC

A. GENERAL

- EXCEPT AS SPECIFIED TO THE CONTRARY, THIS CONTRACT SHALL INCLUDE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS PART OF MECHANICAL SYSTEMS.
- GENERAL AND SPECIAL CONDITIONS OF AIA (AMERICAN INSTITUTE OF ARCHITECTS) AND OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.

B. HVAC INSULATION

- INSULATION THICKNESSES ARE BASED ON INSULATION HAVING THERMAL RESISTANCE IN THE RANGE OF 4.0 HR F R_{L2}/BTU TO 4.6 HR F R_{L2}/BTU PER INCH OF THICKNESS ON A FLAT SURFACE AT A MEAN TEMPERATURE OF 73°. MINIMUM INSULATION THICKNESS SHALL BE INCREASED FOR MATERIALS HAVING R VALUES LESS THAN 4.0 OR MAY BE REDUCED FOR MATERIALS HAVING R VALUES GREATER THAN 4.6 TO GIVE EQUIVALENT "R" VALUES.
- COVER REFRIGERANT PIPING AS FOLLOWS:
 - INSULATE WITH 1" THICK ELASTOMERIC PIPE INSULATION.
 - COVER VALVES (INCLUDING BONNET) AND APPURTENANCES IN COLD LINES.
 - SEAL ALL BUTT JOINTS WITH ARMSTRONG NO. 520 ADHESIVES.
 - FITTINGS SHALL BE COVERED WITH ELASTOMERIC INSULATION TO THE SAME THICKNESS AS ADJACENT PIPE. SEAL ALL JOINTS WITH ARMSTRONG NO. 520 ADHESIVE.
 - INSTALL A RIGID ELASTOMERIC INSERT BETWEEN PIPE AND HANGER AT EACH PIPE HANGER TO PREVENT EXCESSIVE COMPRESSION OF THE ELASTOMERIC INSULATION. AT THE CONTRACTOR'S OPTION, CORK STOPPERS OR WOOD BLOCKS MAY BE INSTALLED AT EACH HANGER. VAPOR BARRIER TO BE MAINTAINED THROUGHOUT.
 - PIPE COVERING OUTSIDE OF BUILDING SHALL BE SAME THICKNESS, AND COATED WITH ARMSTRONG TYPE MB FINISH TO MAKE WEATHER RESISTANT.

3. COVER CONDENSATE DRAIN PIPING AS FOLLOWS:

- INSULATE WITH 1/2" ELASTOMERIC PIPE INSULATION.
- SEAL ALL BUTT JOINTS WITH ARMSTRONG NO. 520 ADHESIVE.

4. COVER LOW PRESSURE SUPPLY, RETURN AND OUTSIDE DUCTWORK AS FOLLOWS:

- ALL SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH 1 1/2" THICK, 1 LB DENSITY BLANKET FLEXIBLE DUCT INSULATION.
- ALL LINED DUCTS WITHIN THE CEILING PLENUM SPACE DO NOT REQUIRE WRAPPING.
- ADHERE INSULATION TO DUCT SURFACE WITH FOSTER NO. 85-20 ADHESIVE APPLIED IN 6" WIDE STRIPS ON 12" CENTERS. BUTT ALL EDGES OF INSULATION AND SEAL ALL JOINTS WITH A FOIL-SKIRM-KRAFT TAPE OR FLANGE ADHERED OVER THE JOINT. SECURE INSULATION WITH FLARE DOOR STAPLES UNTIL THE ADHESIVE SETS.
- SEAL ALL BREAKS AND JOINTS IN VAPOR BARRIER WITH 2-1/2" WIDE PRESSURE SENSITIVE TAPE TO MATCH VAPOR BARRIER FACING. ADHERE WITH FOSTER 85-20 ADHESIVE WHERE NECESSARY.

- COVER THE TOP OF ALL SUPPLY DIFFUSERS ABOVE CEILINGS WHEN NOT IN A RETURN AIR PLENUM. INSULATION TO BE 1 1/2" THICK, 1 LB DENSITY FLEXIBLE BLANKET.
- ALL COVER ABOVE SHALL BE BY JOHNS-MANVILLE. EQUIVALENT TYPE THICKNESS AND CONDUCTIVITY INSULATION BY OWENS CORNING, KNAUF, OR CERTAIN TEED MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.
- ALL SUPPLY AIR CONDITIONING DUCT INSULATION TO BE CONTINUOUS THROUGH WALLS AND PIPE HANGERS.

C. LOW PRESSURE DUCTWORK AND ACCESSORIES

- DUCTWORK AND ACCESSORIES SHALL BE FABRICATED AND INSTALL IN STRICT ACCORDANCE WITH THE 2" W.G. TABLE IN THE LATEST EDITION OF SMANCA EXCEPT AS HEREIN NOTED AND/OR AS DETAILED ON THE DRAWINGS.
 - FIBERGLASS DUCT BOARD SHALL NOT BE UTILIZED. DUCTWORK, PLENUM, ETC. SHALL BE CONSTRUCTED OF SHEET METAL.
 - VANED ELBOWS ARE TO UTILIZE DOUBLE THICKNESS VANES WITH THE ELBOW HEAL RADIUSED THE SAME AS THE TURNING VANE. ELBOW CHEEKS ARE TO BE MINIMUM OF 3". VANED ELBOWS ARE NOT TO BE UTILIZED IN DUCTWORK WHERE VELOCITY EXCEEDS 2000 FPM.
 - RADIUS ELBOWS, 1/3 RADIUS OR FULL RADIUS ARE TO BE UTILIZED EXCEPT WITHIN 20' OF AN AIR OUTLET. 1/3 RADIUS ELBOWS SHALL HAVE A TURNING VANE ONE GAGE HEAVIER THAN DUCT CONSTRUCTION.
 - ALL DUCTWORK DIMENSIONS INDICATED ON PLANS ARE CLEAR INSIDE DIMENSIONS. WHERE DUCTS ARE LINED, DUCTWORK IS TO BE INCREASED TO MAINTAIN THAT FREE AREA.
 - FLEXIBLE CONNECTIONS TO ALL EQUIPMENT SHALL BE MADE WITH 3" WIDE DOUBLE NEOPRENE COATED FLAME RETARDANT FIBER GLASS FLEXIBLE CONNECTION. FLEXIBLE TO HAVE A MINIMUM OF 24" GAGE, 3" WIDE SHEET METAL COLLARS PERMANENTLY ATTACHED TO EACH SIDE.
 - MITERED OFFSETS GREATER THAN 30° IN EITHER DIRECTION SHALL NOT BE PERMITTED.
 - CHANGES IN DUCT SIZES SHALL BE MADE BY UNIFORM TAPER SECTION WITH A MAXIMUM INCLUDED ANGLE OF DIVERGENCE OF 15°.
 - SPLITTER DAMPERS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED ON THE DRAWING.
 - VOLUME DAMPERS SHALL BE SINGLE BLADE UP TO 6" IN WIDTH AND MULTIBLADE FOR LARGER SIZES. VOLUME DAMPERS SHALL HAVE BALL BEARINGS AND SHALL INCORPORATE LOCKING TYPE INDICATING ADJUSTMENT.
 - DUCT HANGER - WHERE DUCTWORK EXCEEDS 36" IN THE LARGEST DIMENSION TRAPEZE HANGERS SHALL BE UTILIZED.
 - FLEXIBLE DUCTS TO BE WIREMOLD W/ INSULATED FLEXIBLE DUCTWORK RATED AT 0.5" POSITIVE STATIC PRESSURE MINIMUM. MAXIMUM LENGTH OF FLEXIBLE DUCT TO BE 5'-0".

D. CONDENSATION DRAIN PIPING SYSTEM

- PROVIDE CONDENSATION DRAIN PIPING FOR AIR CONDITIONING UNITS AS SHOWN ON DRAWINGS.
- PIPING SHALL BE SCHEDULE TYPE DWV HARD DRAWN COPPER DRAINAGE TUBING FOR DRAINS WITH CAST BRASS DRAINAGE FITTINGS.
- PITCH ALL CONDENSATION AND OTHER DRAIN LINES DOWN A MINIMUM OF 1" IN 30' IN THE DIRECTION OF FLOW.

E. REFRIGERANT PIPING SYSTEM

- PIPE TYPE L-ACR HARD DEHYDRATED SCALE FREE COPPER TUBING.
- FITTINGS WROUGHT COPPER, SOLDER TYPE.
- SHUT-OFF VALVES IN REFRIGERANT LINES SHALL BE SIMILAR TO HENRY, BALANCED-ACTING DIAPHRAGM TYPE WITH BRASS BODY WITH SOLDER TYPE ENDS.
- PROPERLY CLEAN ENDS OF ALL TUBING BEFORE SOLDERING.
- ALL JOINTS SHALL BE MADE WITH "SILFOS".
- DURING CONSTRUCTION, THIS CONTRACTOR SHALL TAKE PRECAUTION TO MINIMIZE CONTAMINATION OF SYSTEM BY DIRT, SCALE, MOISTURE OR OTHER FOREIGN MATTER. ALL FOREIGN MATERIAL AND MOISTURE IN THE SYSTEM SHALL BE REMOVED.

1. AIR DEVICES BY TITUS, ANEMOSTAT, PRICE, CARNES OR KRUEGER MEETING ALL SPECIFIED REQUIREMENTS MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.

I. DUCTLESS SPLIT SYSTEMS

- REFER TO DRAWINGS FOR BASIS OF DESIGN.
- UNITS MUST COMPLY WITH OHIO ENERGY CODE IN REGARDS TO COP, EER, ETC.
 - CONDENSING UNIT SHALL BE FURNISHED WITH A DIGITAL SCROLL TYPE COMPRESSOR UTILIZING R-410A AND BE PROVIDED WITH CRANKCASE HEATER, AUTOMATICALLY REVERSIBLE OIL PUMPS, INTERNAL AND EXTERNAL MOTOR PROTECTION, DIRECT DRIVE UP DISCHARGE PROPELLER FAN, LOW AMBIANT CONTROLS, AND OUTDOOR DEFROST THERMOSTAT.
 - PRECHARGED INSULATED TUBING FURNISHED WITH UNITS PROPERLY SIZED AND INSTALLED TO MANUFACTURER'S RECOMMENDATIONS. SERVICE VALVES, FILTER DRIER AND SIGHT GLASS TO BE FIELD INSTALLED.
 - A WALL MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT FURNISHED WITH THE UNIT SHALL CONTROL THE OUTDOOR UNIT TO MAINTAIN ROOM TEMPERATURE. THERMOSTAT TO HAVE SELECTION FOR HEATING, COOLING, CONTINUOUS OR AUTOMATIC FAN OPERATION.
 - POWER WIRING TO UNITS AND DISCONNECT BY ELECTRICAL CONTRACTOR. CONTROL WIRING BY THIS CONTRACTOR.
 - MOUNT CONDENSING UNITS ON MINIMUM 4" HIGH HOUSEKEEPING PAD. PAD BY THIS CONTRACTOR.
- DUCTLESS SPLIT SYSTEM UNIT EQUIPMENT MEETING ALL REQUIREMENTS BY MITSUBISHI, DAIKEN, LG OR SANYO MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.

K. GRILLES, REGISTERS AND DIFFUSERS

- REFER TO DRAWINGS FOR BASIS OF DESIGN.
- AIR DEVICES BY TITUS, ANEMOSTAT, PRICE, CARNES OR KRUEGER MEETING ALL SPECIFIED REQUIREMENTS MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.

L. MANUAL BALANCE DAMPERS

- BASED ON AMERICAN WARMING TYPE VC-2 OPPOSED BLADE WITH HEAVY DUTY MOLDED NYLON BEARINGS, 16 GAUGE GALVANIZED STEEL BLADES (8" MAX. WIDTH), EXTENDED SHAFT AND LINKAGE.
 - BALANCE DAMPERS FOR ROUND DUCTS SHALL BE AMERICAN WARMING TYPE VC-9 SINGLE BLADE, 22 GAUGE (4" TO 12"), 20 GAUGE (13" TO 18") AND AND 18 GAUGE (19" TO 24") GALVANIZED STEEL.
 - ALL DAMPERS SHALL BE EQUIPPED WITH LOCKING QUADRANTS.
- AT THE CONTRACTOR'S OPTION, MANUAL BALANCING DAMPERS SHALL BE MANUFACTURED BY THE CONTRACTOR PER SMANCA STANDARDS. DAMPERS SHALL HAVE LOCKING QUADRANTS ON BOTH SIDES OF THE DUCT.
- DAMPERS BY RUSKIN, AIR BALANCE, GREENHECK OR VENT PRODUCTS OF THE SAME TYPE AND MEETING SPECIFIED REQUIREMENTS, MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.

N. TESTS AND ADJUSTMENTS

- CONTRACTOR SHALL ARRANGE AND PAY FOR A CERTIFIED TEST AND AIR BALANCE FOR THE PROJECT, WITHIN TWO WEEKS AFTER COMPLETION OF THE CONSTRUCTION. A CERTIFIED AIR BALANCE REPORT SHALL BE SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL. IN THE EVENT THAT THE OWNER REQUIRED ADJUSTMENTS TO OWNER'S AIR DISTRIBUTION, CONTRACTOR SHALL PAY ALL COSTS RELATED THERE.

O. CONTROLS

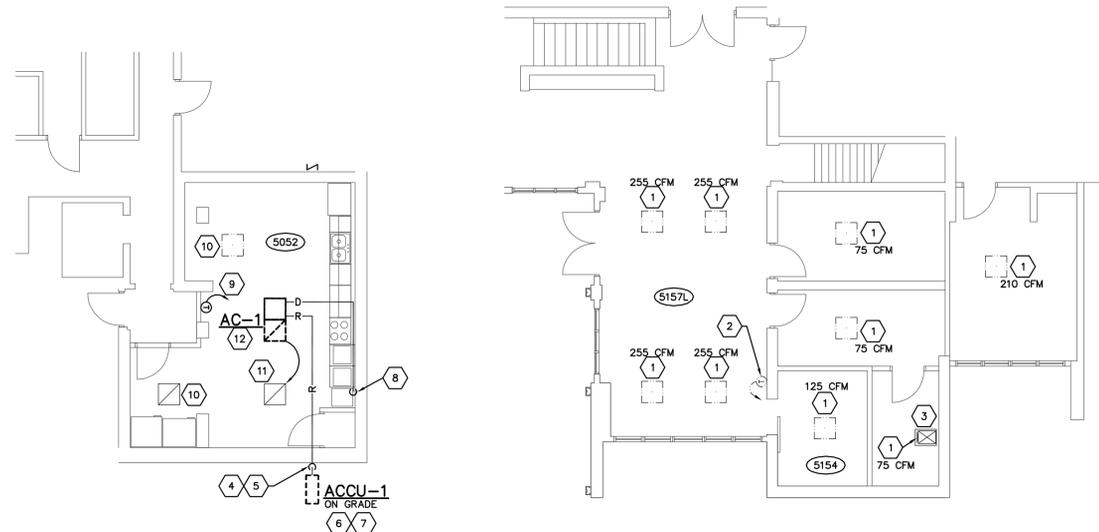
- THIS CONTRACT SHALL INCLUDE ALL LINE, LOW VOLTAGE CONTROL WIRING AND INTERLOCK WIRING TO OPERATE HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT INSTALLED UNDER THIS CONTRACT. ALL WIRING TO COMPLY WITH ELECTRICAL SPECIFICATIONS, THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL CODES.

EQUIPMENT NOTES

AC-1 & ACCU-1
 MITSUBISHI MODEL SLZ-KA12NA, CEILING CASSETTE, DUCTLESS HEAT PUMP WITH MATCHING MODEL SUZ-KA12NA CONDENSING UNIT, 11,100 BTUH TOTAL COOLING CAPACITY, 15.4 SEER, 13,600 BTUH TOTAL HEATING CAPACITY, 208V, 1φ, 12A MCA, 15A MAX OVERCURRENT PROTECTION DEVICE. CONTROL WIRING BY THE HVAC CONTRACTOR. PROVIDE WITH LOW AMBIENT CONTROLS TO 0° F AND LOCKING BRACKET FOR REMOTE THERMOSTAT. PROVIDE WITH CONDENSATE PUMP AND CONDENSATE OVERFLOW SWITCH.

CODED NOTES

- BALANCE EXISTING AIR DEVICE TO VALUE NOTED ON PLAN.
- EXISTING THERMOSTAT TO REMAIN.
- EXISTING HEAT PUMP UNIT TO REMAIN.
- ROUTE REFRIGERANT LINES THRU WALL AND ABOVE BASEMENT CEILING TO HEAT PUMP. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.
- EXTEND REFRIGERANT LINES THROUGH WALL, SEAL PENETRATION WATER TIGHT.
- SIZE REFRIGERANT LINES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING MAY BE PRE-CHARGED LINE SETS IF AVAILABLE IN REQ'D LENGTHS. INSULATE ALL REFRIGERANT SUCTION PIPING. PROVIDE WEATHER COATING ON INSULATION LOCATED OUTSIDE.
- CONDENSING UNIT ON 4" HIGH CONCRETE PAD. PAD SHALL EXTEND 6" BEYOND UNIT IN EACH DIRECTION. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES ALL AROUND. BOLT CONDENSING UNIT TO PAD WITH 1/2" GALVANIZED BOLTS.
- EXTEND CONDENSATE DRAIN PIPING DOWN IN WALL AND DISCHARGE INTO FLOOR DRAIN.
- LOCATE NEW 7-DAY PROGRAMMABLE THERMOSTAT AT 48" A.F.F.. COORDINATE EXACT LOCATION WITH OWNER.
- EXISTING AIR DEVICE TO REMAIN.
- RELOCATED EXISTING AIR DEVICE AS SHOWN. EXTEND DUCTWORK AS NEEDED.
- HANG UNIT FROM STRUCTURE PER MANUFACTURERS INSTRUCTIONS.
- EXTEND CONDENSATE DRAIN TO FLOOR DRAIN IN ADJACENT RESTROOM. CONTRACTOR TO VERIFY EXACT LOCATION.



BASEMENT HVAC PLAN
 SCALE: 1/8"=1'-0"

GROUND FLOOR HVAC PLAN
 SCALE: 1/8"=1'-0"



#	Date	Change Description

Dublin City Hall Lobby Interior Renovation
 8200 Emerald Parkway
 Dublin, Ohio 43017
 City of Dublin, Ohio

MOODY-NOLAN, INC.
 architecture • civil engineering • interior architecture
 300 Spruce Street Phone: (614) 461-4664
 Suite 300 Fax: (614) 280-8881
 Columbus, Ohio 43215 www.moodynolan.com

Dwg. Coord.: Tech. Coord.: M/N # 12340
HVAC NEW WORK PLANS
 BID / PERMIT SET **H1.0**
 3-27-2013

H1-0-13031.DWG
PRATER Engineering Associates, Inc.
 6130 Wilcox Road (614) 766 4896
 Dublin, Ohio 43016 FAX: (614) 766 2354
 DESIGNED BY MAM DRAWN BY MAM CHECKED BY JK JOB NUM. 13031

ELECTRICAL SYMBOLS LEGEND

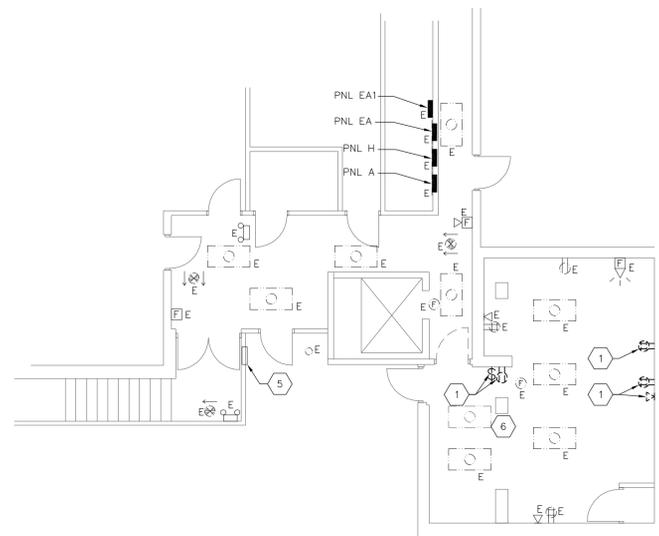
SYMBOL	DESCRIPTION	MOUNTING HGT. TO CENTER UNLESS OTHERWISE NOTED
○	CEILING-RECESSED LIGHT FIXTURE	
3-○	WALL-MOUNTED LIGHT FIXTURE	SEE DRAWINGS
3-⬤	SPECIAL OUTLET AS REQUIRED	SEE DRAWINGS
⊕	WIRED JUNCTION BOX	SEE DRAWINGS
⊖	DUPLEX RECEPTACLE	18"
⊖ WP	DUPLEX RECEPTACLE WEATHERPROOF / GROUND FAULT	18"
⊖ GF	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER	18"
⊕ 3-⊕ 4-⊕	TOGGLE SWITCH - SINGLE, 3-WAY & 4-WAY	42"
K1	VOICE/DATA OUTLET - EXISTING TO REMAIN OR EXISTING TO BE REMOVED (AS NOTED)	18"
⊕	MOTOR - 1 PHASE	AS REQUIRED
⊕	MOTOR - 3 PHASE	AS REQUIRED
⊕	CEILING MOUNTED EXIT LIGHT	
3-⊕	WALL MTD. EXIT LIGHT	AB DOOR
⊕	CEILING MOUNTED EXIT LIGHT W/ DIRECTIONAL ARROWS	
⊖	ELECTRICAL PANEL - SURFACE MOUNT, FLUSH MOUNT	6'-0" TO TOP
⊖	PLYWOOD TELEPHONE BACKBOARD	SEE DRAWINGS
⊕	SAFETY SWITCH	AS REQUIRED
D	WALL BOX DIMMER	42"
⊕	EMERGENCY BATTERY UNIT	90"
F	FIRE ALARM MANUAL PULL STATION	42"
F	FIRE ALARM SIGNAL - AUDIO VISUAL	80"
F	FIRE ALARM SIGNAL - STROBE ONLY	80"
⊕	SMOKE DETECTOR - DUCT MOUNTED	SEE DRAWINGS
⊕	SMOKE DETECTOR - CEILING	
⊕	HEAT DETECTOR - CEILING	
⊕	FIRE ALARM VOICE ALARM SIGNAL - CEILING MOUNTED	
3-⊕	FIRE ALARM VOICE ALARM SIGNAL - WALL MOUNTED	90"
⊕	DOOR HOLDER	AS REQUIRED
⊕	CCTV CAMERA	AS REQUIRED

GENERAL NOTES

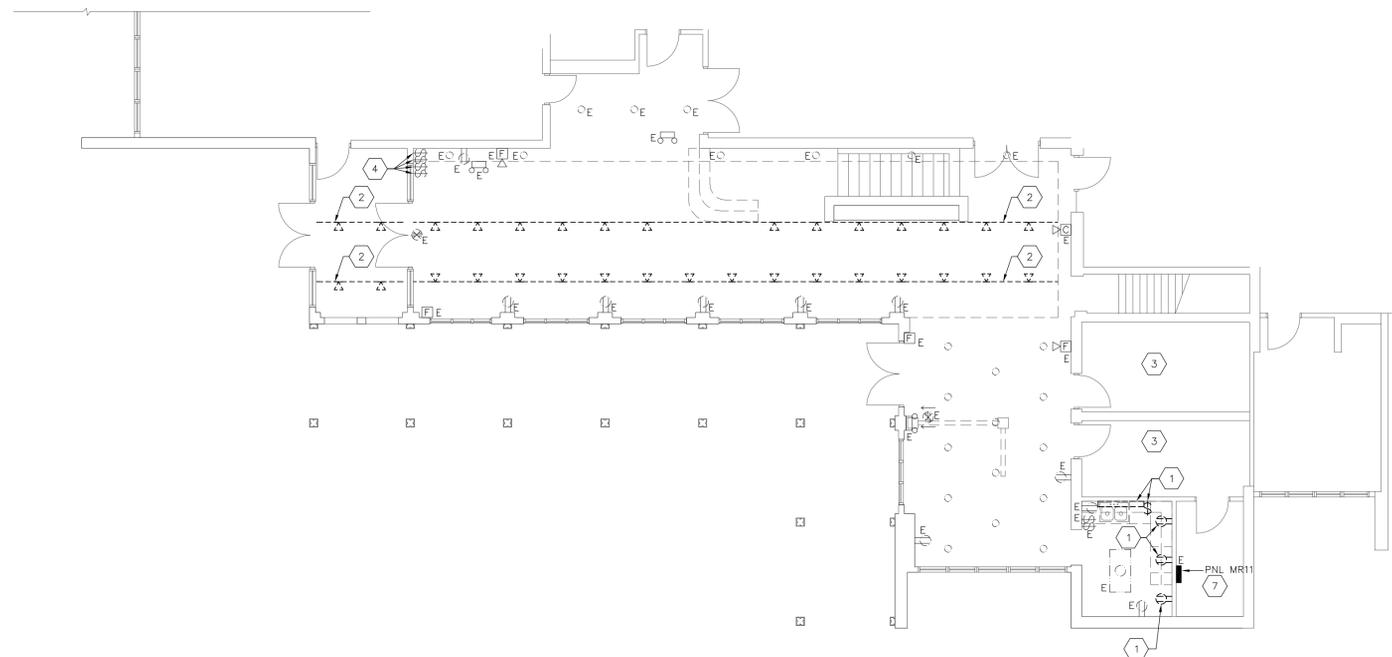
- DEVICES WITH SUBSCRIPT "E" ARE EXISTING TO REMAIN. MAINTAIN AND PROTECT.
- MAINTAIN AND PROTECT ALL EXISTING UTILITIES, DEVICES AND EQUIPMENT, UNLESS NOTED OTHERWISE.
- WHERE DEVICES AND EQUIPMENT ARE NOTED FOR REMOVAL, DISCONNECT AND REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE OR NEXT UPSTREAM EQUIPMENT THAT SHALL REMAIN.
- DISCONNECT AND REMOVE ALL DEVICES IN WALLS MARKED FOR DEMOLITION (SHOWN DASHED) AND IN LOCATIONS THAT COINCIDE WITH NEW WALLS. REFER TO ARCHITECTURAL PLANS.
- REFER TO SHEET G1.2 FOR PHASING PLAN.

CODED NOTES

- DISCONNECT AND REMOVE EXISTING DEVICE OR EQUIPMENT.
- DISCONNECT AND REMOVE EXISTING TRACK LIGHTING AND ALL APPURTENANCES (HEADS, SECTIONS, MOUNTING BRACKETS, ETC). RETAIN BRANCH CIRCUITRY FOR NEW LIGHTING FIXTURE TO BE INSTALLED UNDER NEW CONSTRUCTION. REUSE AS MUCH EXISTING WIRING AND CONDUIT AS POSSIBLE TO SERVE NEW LIGHTS.
- MAINTAIN AND PROTECT ALL EXISTING DEVICES AND EQUIPMENT IN THIS SPACE, UNLESS NOTED OTHERWISE.
- MAINTAIN AND PROTECT EXISTING SWITCHES CONTROLLING LOBBY AREA LIGHTS. REUSE SWITCHES FOR NEW LOBBY LIGHTS UNDER NEW CONSTRUCTION. SEE SHEET E2.0.
- MAINTAIN AND PROTECT EXISTING FIRE ALARM PANEL.
- DISCONNECT AND RELOCATE EXISTING LIGHT FIXTURE. SEE SHEET E2.0 FOR NEW LOCATION.
- PANEL IS ALSO FIELD MARKED AS NP2.



BASEMENT ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"



GROUND LEVEL ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"



#	Date	Change Description

Dublin City Hall Lobby Interior Renovation
5200 Emerald Parkway
Dublin, Ohio 43017
for **City of Dublin, Ohio**

MOODY-NOLAN, INC.
architecture • civil engineering • interior architecture
300 Spruce Street Suite 300 Columbus, Ohio 43215
Phone: (614) 461-4664 Fax: (614) 280-8881
www.moodynolan.com

Dwg. Coord.: Tech. Coord.: M/N # 12340
ELECTRICAL DEMOLITION PLANS
BID / PERMIT SET **E1.0**
3-27-2013

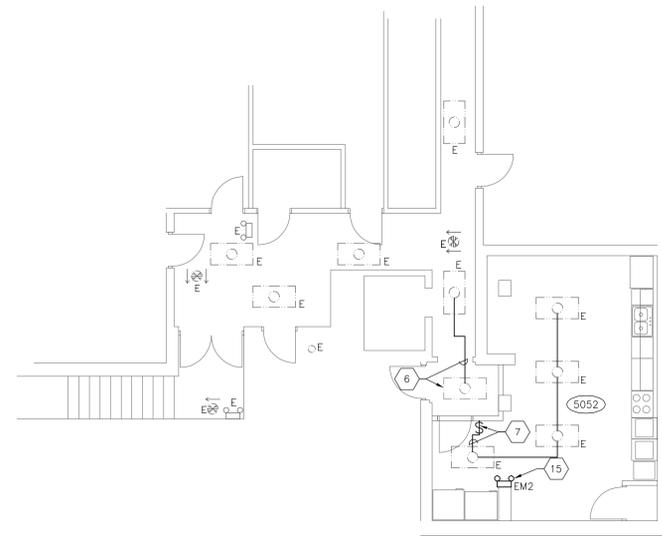
E1-0-13031.DWG
PRATER
Engineering Associates, Inc.
6130 Wilcox Road Dublin, Ohio 43016
Phone: (614) 766 4896 Fax: (614) 766 2354
DESIGNED BY: BAO DRAWN BY: BAO CHECKED BY: DLP JOB NUM: 13031

LIGHTING ENERGY COMPLIANCE NOTES

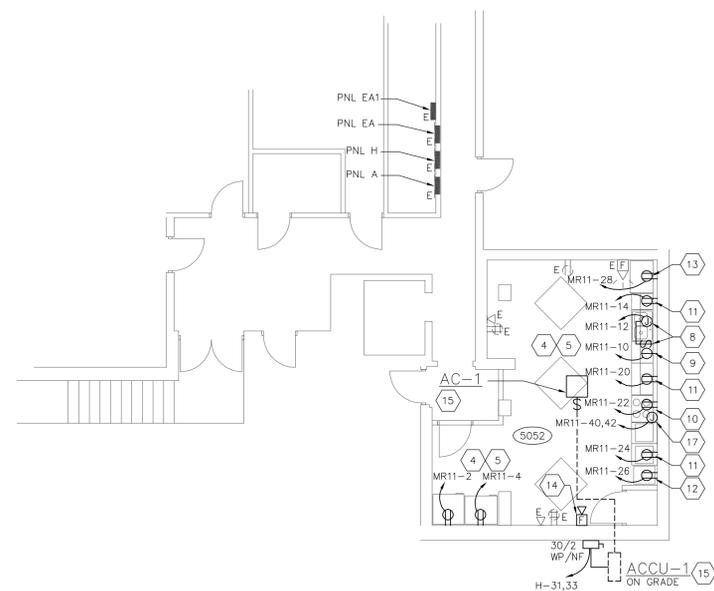
PER ASHRAE 90.1-2007, PARAGRAPH 9.1.2 "LIGHTING ALTERATIONS", ALTERATIONS THAT REPLACE LESS THAN 50% OF THE LUMINAIRES IN A SPACE NEED NOT COMPLY WITH ENERGY CODE REQUIREMENTS PROVIDED THAT SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER.

IN THE RENOVATIONS PROVIDED UNDER THIS PROJECT, LESS THAN 50% OF LUMINAIRES SHALL BE REPLACED, AND ACTUAL LUMINAIRE QUANTITIES AND INTERIOR LIGHTING POWER ARE REDUCED; HENCE THIS DESIGN QUALIFIES FOR THE EXCEPTION STATED ABOVE. BELOW IS A LIGHTING ENERGY CALCULATION SUMMARY:

LENGTH OF TRACK LIGHTS TO BE REMOVED: 138 FEET
 WATTAGE OF TRACK LIGHTS TO BE REMOVED: 138 X 30W = 4140W
 WATTAGE OF NEW LIGHTS TO BE INSTALLED: *34 X 60W = 2040W
 (* 34 4-FT SEGMENTS OF 54W TSHO LAMPS RATED 60W PER SEGMENT)
 TOTAL WATTAGE REDUCTION = 4140W - 2040W = 2100W.



BASEMENT LIGHTING PLAN
 SCALE: 1/8"=1'-0"



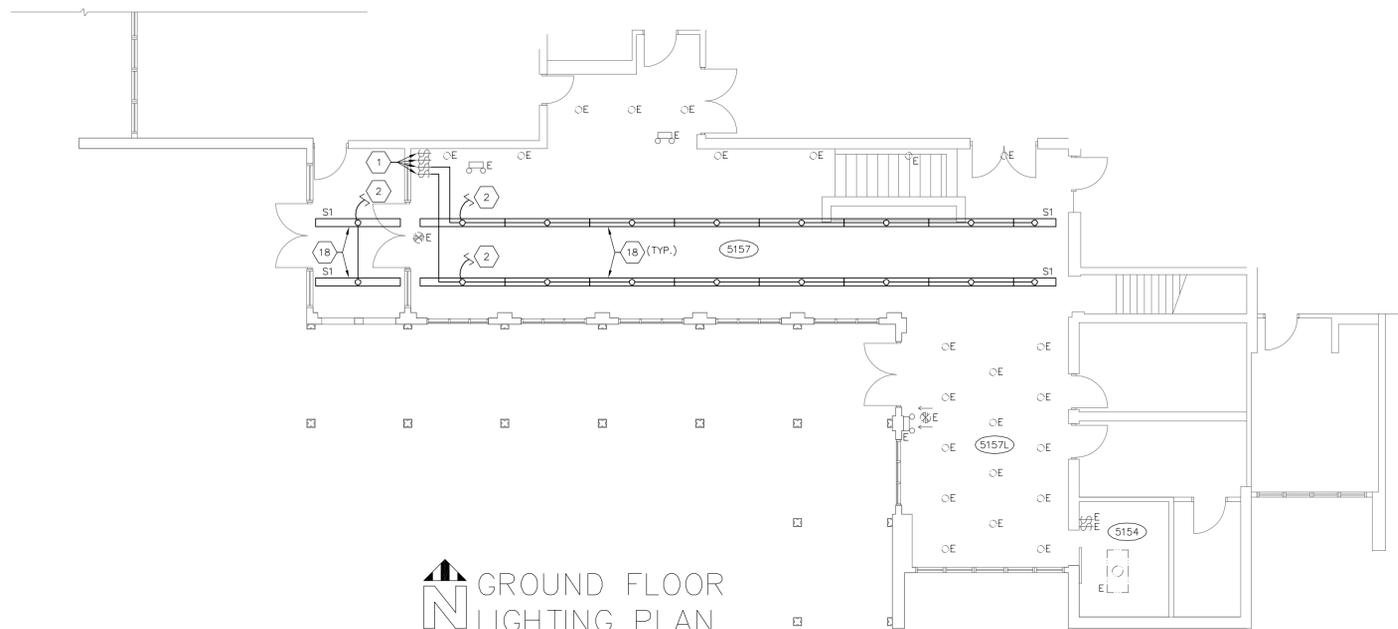
BASEMENT POWER PLAN
 SCALE: 1/8"=1'-0"

CODED NOTES

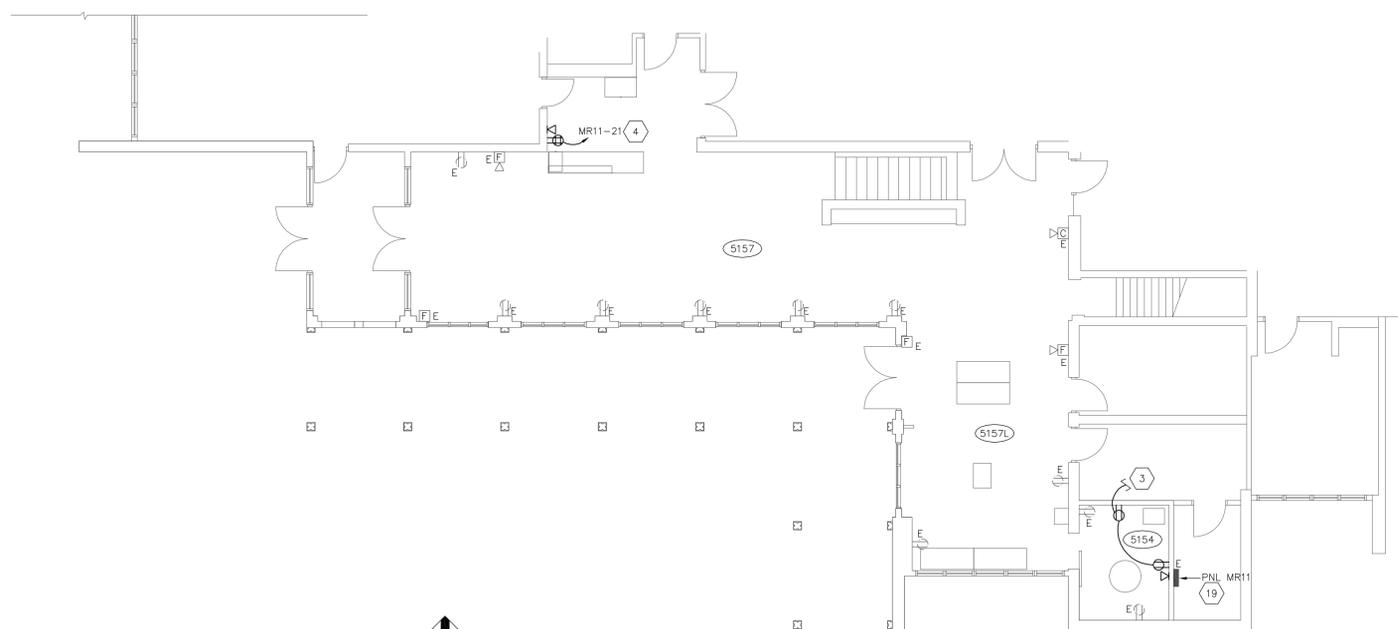
- REUSE EXISTING SWITCHES AS SHOWN TO CONTROL NEW LOBBY LIGHTS. PROVIDE LABEL ON UNUSED SWITCH THAT READS "UNUSED".
- REUSE EXISTING LIGHTING CIRCUIT.
- CIRCUIT RECEPTACLES TO EXISTING CIRCUIT MADE AVAILABLE BY THE DEMOLITION OF RECEPTACLES IN THIS ROOM.
- PROVIDE 20A/1P BREAKERS IN INDICATED PANELS TO SERVE NEW CIRCUITS.
- ALL RECEPTACLES IN THIS BREAK ROOM SHALL BE GFCI TYPE AND BE READILY ACCESSIBLE. WHERE RECEPTACLES CANNOT BE READILY ACCESSIBLE (E.G., INSTALLED BEHIND FRIDGE), THEIR ASSOCIATED CIRCUIT BREAKERS SHALL BE GFCI TYPE.
- NEW LOCATION OF RELOCATED LIGHT FIXTURE. CIRCUIT TO EXISTING HALLWAY LIGHTS AS SHOWN.
- PROVIDE NEW SWITCH AND CIRCUIT TO CONTROL EXISTING LIGHTS AS SHOWN.
- PROVIDE 120V CONNECTION TO GARBAGE DISPOSER. PROVIDE SPST SWITCH ABOVE COUNTERTOP AND CIRCUIT AS SHOWN. COORDINATE WITH PLUMBING CONTRACTOR.
- PROVIDE 120V CONNECTION TO DISHWASHER. COORDINATE WITH PLUMBING CONTRACTOR.
- PROVIDE 120V CONNECTION TO ABOVE-RANGE MICROWAVE. COORDINATE WITH KITCHEN EQUIPMENT INSTALLER.
- MOUNT DEVICE ABOVE COUNTERTOP/BACKSPLASH.
- PROVIDE 120V CONNECTION TO WATER COOLER. COORDINATE WITH OWNER.
- PROVIDE 120V CONNECTION TO REFRIGERATOR. COORDINATE WITH EQUIPMENT INSTALLER.
- PROVIDE FIRE ALARM NOTIFICATION DEVICE. INTERFACE WITH EXISTING FIRE ALARM PANEL.
- PROVIDE 208V, 1P CONNECTION TO AC-1/ACCU-1. RUN (2) #10 AND #10 GROUND IN 3/4" CONDUIT FROM INDICATED PANEL TO EXTERIOR UNIT. RUN (2) #12 AND #12 GROUND IN 3/4" CONDUIT FROM EXTERIOR UNIT TO INDOOR UNIT. PROVIDE WEATHERPROOF, NON-FUSED, 30A/2P DISCONNECT SWITCH AT EXTERIOR UNIT. COORDINATE WITH HVAC CONTRACTOR.
- CIRCUIT EMERGENCY LIGHTING UNIT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
- PROVIDE 208V/1-PHASE CONNECTION TO RANGE. PROVIDE NEMA 14-50R RECEPTACLE AND CORRESPONDING PLUG FOR RANGE. RUN (3) #6 AND #8 GROUND IN 1" CONDUIT. COORDINATE WITH BREAK ROOM EQUIPMENT INSTALLER.
- REUSE EXISTING LOCATIONS OF FIXTURE PENDANT SUPPORTS FOR NEW FIXTURE SUPPORTS SO AS TO MINIMIZE DAMAGE TO WOOD FINISH OF VESTIBULE AND LOBBY CEILING SURFACES. PROVIDE SUPPLEMENTARY SUPPORTS AS NECESSARY FOR INSTALLATION TO MEET MANUFACTURER'S RECOMMENDATIONS. REPAIR AND POLISH ANY AFFECTED AREAS TO MATCH SURROUNDING AREA.
- PANEL IS ALSO FIELD MARKED AS NP2.

GENERAL NOTES

- DEVICES WITH SUBSCRIPT "E" ARE EXISTING TO REMAIN. MAINTAIN AND PROTECT.
- NOTE THAT CIRCUIT ASSIGNMENTS AND PLAN NOTES HAVE BEEN ASSUMED BASED ON AVAILABLE RECORD DRAWINGS AND FIELD NOTES. FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- FOR EACH DATA OUTLET (K) LOCATION, PROVIDE OUTLET BOX AND RUN (1) 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE PULL STRING IN CONDUIT.
- ALL FIRE ALARM SYSTEM MODIFICATIONS SHALL BE PERFORMED BY OWNER'S FIRE ALARM CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE. COORDINATE WITH CITY OF DUBLIN.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE TYPEWRITTEN PANEL DIRECTORIES WHICH COMPLY WITH THE NATIONAL ELECTRICAL CODE ARTICLE 408.4 - CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION - WHICH STATES: "EVERY CIRCUIT SHALL BE IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. NO CIRCUIT SHALL BE DESCRIBED IN A MANNER THAT DEPENDS ON TRANSIENT CONDITIONS." THIS REQUIREMENT IS SPECIFIC FOR DISTRIBUTION PANELS AND LIGHTING & APPLIANCE TYPE PANELS, INCLUDING EXISTING PANELS BEING MODIFIED. HOWEVER, THE IDENTIFICATION REQUIREMENTS OF NEC 110.22 APPLY TO ALL DISCONNECTING MEANS.
- ALL DEVICE COVER PLATES SHALL BE STAINLESS STEEL. PROVIDE CUSTOM LABEL TO INDICATE CIRCUIT ASSIGNMENTS ON ALL DEVICE COVERS. MATCH EXISTING DEVICES LABELS.
- REFER TO SHEET G1.2 FOR PHASING PLAN.



GROUND FLOOR LIGHTING PLAN
 SCALE: 1/8"=1'-0"



GROUND FLOOR POWER PLAN
 SCALE: 1/8"=1'-0"



#	Date	Change Description

Dublin City Hall Lobby Interior Renovation
 5200 Emerald Parkway
 Dublin, Ohio 43017
 for
City of Dublin, Ohio

MOODY-NOLAN, INC.
 architecture • civil engineering • interior architecture
 300 Spruce Street Suite 300 Columbus, Ohio 43215
 Phone: (614) 461-4664
 Fax: (614) 280-8881
 www.moodynolan.com

Dwg. Coord.: Tech. Coord.: M/N # 12340
ELECTRICAL NEW WORK PLANS
BID / PERMIT SET
E2.0
 3-27-2013

E2-0-13031.DWG
PRATER
 Engineering Associates, Inc.
 6130 Wilcox Road Dublin, Ohio 43016
 (614) 766 4896
 FAX: (614) 766 2354
 DESIGNED BY: BAO
 DRAWN BY: BAO
 CHECKED BY: DLP
 JOB NUM: 13031

LIGHTING LUMINAIRE SCHEDULE

NOTE : FIXTURE NUMBER, LETTER PREFIX INDICATES TYPE OF MOUNTING AS FOLLOWS:
 CL--CEILING MOUNTED; S--STEM SUSPENDED; W--WALL MOUNTED; R--CEILING RECESSED;
 WR--WALL RECESSED; CY--CYLINDER MOUNTED; UC--UNDER CABINET; RF--ROOF MOUNTED;
 P--PENDANT; GR--GROUND; CH--CHAIN SUSPENDED; T--TRACK; RE--RELOCATED

FIXTURE NUMBER	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
S1	PENDANT-MOUNTED CONTINUOUS-ROW DIRECT/INDIRECT FLUORESCENT FIXTURE	FOCAL POINT	FTWS-PB-1TSHO-1C-120-S-J12	(1) 54W TSHO PER 4'	INSTALL IN 8 AND 4 FT SEGMENTS. PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION OF CONTINUOUS RUN OF FIXTURES IN LENGTHS SHOWN. REFER TO ARCHITECTURAL ELEVATIONS.
EM2	WALL MOUNTED EMERGENCY BATTERY UNIT	SURE-LITES	CG3-WH-120-SD	(2) 6V, 5W INC.	

EQUIVALENT FIXTURE MANUFACTURERS BY OTHER MANUFACTURERS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY ARCHITECT PRIOR TO ORDERING.

Panel ID: H (Existing)	Voltage: 208 / 120	Panel Type: Existing
Location: ELEC. ROOM	Phase: 3	Enclosure: NEMA-1
Mounting: SURFACE	Wire: 4	
Main Type: M.L.O.	Main Size: 225 Amps	

All phases shall be balanced to within 7% using connected loads.

All circuit breakers shall be standard bolt-on type, unless noted otherwise.
 ** = Refer to one line diagram for wire sizes.

GND WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRC BRKR SIZE	CIRC BRKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CIRC BRKR SIZE	CIRC BRKR OPTION	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
	EX DUCT HTR	60/3		3.000	1	A	2	0.000			EX SURGE ARREST		
	---	---	---	3.000	3	B	4	0.000			---		
	---	---	---	3.000	5	C	6	0.000			---		
	EX CPTR RM RCPT	30/2		1.000	7	A	8	0.000			SPARE		
	---	---	---	1.000	9	B	10	0.000			SPARE		
	EX RCPT	20/1		0.900	11	C	12	0.000			SPARE		
	EX RCPT	20/1		0.900	13	A	14	3.500			EX FURNACE		
	SPARE	20/1		0.000	15	B	16	3.500			---		
	SPARE	20/1		0.000	17	C	18	3.500			EX FURNACE		
	EX FURNACE	60/2		3.500	19	A	20	3.500			---		
	---	---	---	3.500	21	B	22	3.500			EX FURNACE		
	EX FURNACE	60/2		3.500	23	A	24	3.500			---		
	---	---	---	3.500	25	C	26	0.000			SPARE		
	EX FURNACE	60/2		3.500	27	B	28	0.000			---		
	---	---	---	3.500	29	C	30	0.000			SPARE		
	ACCU-1/2CU-1	60/2		1.250	31	A	32	0.000			SPARE		
	---	---	---	1.250	33	B	34	0.500			EX DDOOR CTRL		
	SPARE	60/2		0.000	35	C	36	0.000			SPARE		
	---	---	---	0.000	37	A	38	0.500			EX CARPORT PWR		
	EX EXH. FAN	20/1		0.700	39	B	40	0.000			SPARE		
	EX LTS	20/1		0.750	41	C	42	0.500			EX CARPORT PWR		

Connected Load Panel Summary				Breaker Options (If Used):			
Phase A:	20.7	KVA	172.1	AMPS	TC	Time Clock Control	
Phase B:	20.5	KVA	170.4	AMPS	LO	Lock-On Device	
Phase C:	19.2	KVA	159.6	AMPS	GF	GND Fault CKT Interrupter	
Total:	60.3	KVA	167.242	AMPS	IG	Isolated ground	
					SH	Shunt Trip Breaker	

Panel ID: MR11 (Existing)	Voltage: 208 / 120	Panel Type: Existing
Location: ELEC. ROOM	Phase: 3	Enclosure: NEMA-1
Mounting: SURFACE	Wire: 4	
Main Type: M.L.O.	Main Size: 225 Amps	

All phases shall be balanced to within 7% using connected loads.

All circuit breakers shall be standard bolt-on type, unless noted otherwise.
 ** = Refer to one line diagram for wire sizes.

GND WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRC BRKR SIZE	CIRC BRKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CIRC BRKR SIZE	CIRC BRKR OPTION	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
	EX LTS	20/1		1.000	1	A	2	1.000			VENDING	12	12
	EX RCPT	20/1		1.080	5	C	6	1.080			EX RCPT	12	12
	EX RCPT	20/1		1.080	7	A	8	1.080			EX RCPT	12	12
	SPARE	20/1		0.000	9	B	10	1.000			DISHWASHER	12	12
	EX RCPT	20/1		1.080	11	C	12	1.000			DISPOSER	12	12
	SPARE	20/1		0.000	13	A	14	0.180			BRK RM RCPT	12	12
	SPARE	20/1		0.000	15	B	16	1.200			EX HAND DRYER	12	12
	EX BASEBD HTR	20/2		1.500	17	C	18	1.200			EX HAND DRYER	12	12
	---	---	---	1.500	19	A	20	0.180			BRK RM RCPT	12	12
	RECEPTION QUAD	20/1		0.360	21	B	22	1.000			MICROWAVE	12	12
	SPACE	---	---	0.000	23	C	24	0.180			BRK RM RCPT	12	12
	SPACE	---	---	0.000	25	A	26	1.000			WATER COOLER	12	12
	EX RCPT	20/1		1.080	27	B	28	1.000			REFRIGERATOR	12	12
	SPACE	---	---	0.000	29	C	30	0.000			EX SURGE ARREST		
	SPACE	---	---	0.000	31	A	32	0.000			---		
	EX HEAT PUMP	45/2		3.000	33	B	34	0.000			---		
	---	---	---	3.000	35	C	36	1.500			EX WTR HTR		
	EX HTR	80/3		6.500	37	A	38	1.500			---		
	---	---	---	6.500	39	B	40	4.000			RANGE	6	10
	---	---	---	6.500	41	C	42	4.000			---		

Connected Load Panel Summary				Breaker Options (If Used):			
Phase A:	15.0	KVA	125.2	AMPS	TC	Time Clock Control	
Phase B:	21.1	KVA	176.2	AMPS	LO	Lock-On Device	
Phase C:	22.1	KVA	184.3	AMPS	GF	GND Fault CKT Interrupter	
Total:	58.3	KVA	161.774	AMPS	IG	Isolated ground	
					SH	Shunt Trip Breaker	

ELECTRICAL SPECIFICATIONS

- A. GENERAL**
- FURNISH AND INSTALL ALL NECESSARY MATERIALS, LABOR TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THE WORK SHOWN ON THE ACCOMPANYING DRAWINGS.
 - WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL AND OTHER TRADES, MAKE MINOR ADJUSTMENTS IN DEVICE LOCATIONS AS NECESSARY. LOCATIONS OF STRUCTURAL SYSTEMS, HEATING WORK, AND PLUMBING LINES SHALL TAKE PREFERENCE OVER LOCATIONS OF CONDUIT LINES WHERE CONFLICT OCCURS.
 - THE CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. CLEARANCES, WHEN POSSIBLE, SHALL BE GREATER THAN THOSE REQUIRED BY CODE.
 - ELECTRICAL WORK SHALL MEET OR EXCEED THE STANDARDS OF INSTALLATION AND WORKMANSHIP SET FORTH IN THE LATEST EDITION OF THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION ENTITLED NECA STANDARD OF INSTALLATION, NATIONAL ELECTRIC CODE, NATIONAL ELECTRICAL SAFETY CODE, STANDARDS OF NATIONAL BUREAU OF FIRE UNDERWRITERS AND ANY FEDERAL, STATE, OR LOCAL CODES APPLYING.
 - THE ARCHITECT OR OWNER RESERVE THE RIGHT TO DIRECT THE REMOVAL OR REPLACEMENT OF ANY ITEM WHICH, IN HIS OPINION, DOES NOT PRESENT AN ORDERLY, NEAT, OR WORKMANLIKE APPEARANCE PROVIDED THAT SUCH AN ITEM CAN BE INSTALLED IN AN ORDERLY WAY BY METHODS USUAL IN SUCH WORK.
 - LOCATE EXISTING UTILITIES PRIOR TO BEGINNING WORK AND REROUTE OR REPLACE UTILITIES AS NECESSARY TO COMPLETE WORK. PROVIDE ADEQUATE MEANS OF PROTECTION DURING WORK.
 - AVOID CUTTING OF CONCRETE, MASONRY, AND OTHER WORK BY USE OF INSERTS AND SLEEVES, AND WHEN NECESSARY SHALL BE DONE BY THIS CONTRACTOR WITH SUCH TOOLS AND METHODS AS TO PREVENT UNNECESSARY DAMAGE TO THE SURROUNDING AREA.
 - OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY ALL LAWS AND REGULATIONS OR PUBLIC AUTHORITY HAVING SUCH JURISDICTION. FILE DRAWINGS NECESSARY TO OBTAIN PERMITS.
 - TEMPORARY WIRING AND LIGHTING SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC AND OSHA.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE BY THE OWNER.
- B. EXISTING WORK AND DEMOLITION**
- SUITABLY AND ADEQUATELY PROTECT THE EXISTING WORK WITHIN, AND IMMEDIATELY ADJACENT TO, THE NEW WORK AREAS FROM DAMAGE AND INJURY DURING THE PROCESS OF INSTALLING THE WORK UNDER THIS CONTRACT. EXISTING WORK THAT HAS BEEN HARMED, DAMAGED OR INJURED AS A RESULT OF THE ELECTRICAL CONTRACTOR'S OPERATIONS SHALL BE REPAIRED, RESTORED OR REPLACED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
 - REVISE EXISTING WIRING AS INDICATED OR REQUIRED. EXISTING WORK WHICH REMAINS SHALL BE LEFT IN FIRST CLASS CONDITION AND PROPERLY RECONNECTED.
 - CONDUIT AND WIRING FROM REMOVED ELECTRICAL EQUIPMENT/DEVICES SHALL BE REMOVED BACK TO SOURCE.
- C. CONDUIT**
- ALL WIRING IN BUILDING INTERIOR, INCLUDING FEEDERS, BRANCH CIRCUITS AND AUXILIARY WIRING SHALL BE RUN IN THIN WALL (EMT) CONDUIT, MINIMUM 1/2" TRADE SIZE.
 - ALL STEEL CONDUIT SHALL BE GALVANIZED AND ALL CONDUIT SHALL HAVE THE MANUFACTURER'S NAME AND U.L. LABEL ATTACHED TO OR STAMPED ON EACH PIECE.
 - ALL CONDUIT ON BUILDING EXTERIOR, IN EXTERIOR PARTITIONS, IN POURED CONCRETE, OR BURIED BENEATH CONCRETE SLABS, SHALL BE RIGID OR INTERMEDIATE (IMC) STEEL.
 - FLEXIBLE NEOPRENE-CLAD GALVANIZED STEEL CONDUIT SHALL BE USED FOR "MAKEUP" CONNECTIONS TO ROTATING MACHINERY AND HEATING ELEMENTS. LIGHTING FIXTURES MAY BE SUPPLIED WITH SHORT LENGTHS (MAX. 6'-0") OF FLEXIBLE CONDUIT WITH GREEN GROUND WIRE. FLEXIBLE CONDUIT MAY BE USED IN DRYWALL PARTITIONS.
 - ALL THINWALL CONNECTORS SHALL BE OF THE INSULATED THROAT TYPE, SIMILAR TO THOMAS AND BETTS NO. 9031-1/2". ALL FITTINGS SHALL BE STEEL, NO DIE CAST. FITTINGS WILL BE ALLOWED. CONTRACTOR MAY USE THOMAS AND BETTS, RACO STEEL CITY OR MIDWEST FITTINGS.
 - NO MORE THAN FOUR (4) 90 DEGREE BENDS WILL BE ALLOWED IN ANY ONE CONDUIT RUN. WHERE MORE BENDS ARE NECESSARY IN ANY SINGLE RUN, A PULL BOX SHALL BE INSTALLED; PULL BOXES SHALL ALSO BE INSTALLED IN LONG RUNS AT A MAXIMUM SEPARATION OF 100'-0". ALL CONDUIT EXCEPT IN CONCRETE SLAB OR EARTH SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING AND NO OUT OF PLUMB OR DIAGONAL LINES WILL BE ACCEPTED.
 - UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE RUN CONCEALED WITHIN THE BUILDING CONSTRUCTION WHEN INSTALLED IN FINISHED INTERIOR OR EXTERIOR AREAS. CONDUITS IN EQUIPMENT ROOMS MAY BE RUN EXPOSED.
- D. WIRING**
- ALL CONDUCTORS SHALL BE STRANDED AND OF THE AWG SIZE AND TYPE SHOWN ON THE DRAWINGS. WHERE NO SIZE OR TYPE IS SHOWN, CONDUCTORS SHALL NOT BE LESS THAN #12 TYPE XHHW, THHN, THWN, OR THW. ALL CONDUCTORS SHALL BE COPPER AND HAVE 600 VOLT INSULATION; BE UL LABELED AND OF AMERICAN MANUFACTURER.
 - ALL WIRING FOR EMERGENCY LIGHTING SHALL BE RUN IN SEPARATE CONDUITS, MINIMUM #10 AWG.
 - WIRING COLOR CODE SHALL MATCH EXISTING BUILDING STANDARDS.
 - MC CABLE WITH GREEN GROUND WIRE MAY BE RUN ABOVE ACCESSIBLE CEILINGS AND IN STUD WALLS IN #12 AWG SIZE. SUPPORT FROM STRUCTURE - NOT FROM GRID, PIPES, DUCT, ETC.
 - CONDUCTORS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS. THIS INCLUDES CONDUCTORS IN UNDERGROUND INSTALLATIONS, PER NEC 300.5(B).
- E. DEVICES**
- ALL BOXES FOR OUTLETS AND DEVICES IN UNFINISHED SPACES SHALL BE STEEL 4-11/16".
 - SWITCH PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NOS. P-IN, P-2N, P-3N, ETC. AND SHALL BE MADE OF IVORY PLASTIC.
 - DUPLEX RECEPTACLE PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NO. P--8N IVORY PLASTIC.
 - PLATES FOR EXPOSED OUTLETS IN UNFINISHED SPACES SHALL HAVE STEEL CITY SERIES RS-4" SQUARE GALVANIZED SURFACE COVERS FOR APPLICATION REQUIRED. COVERS SHALL BE RAISED 1/2" AND EDGES FIT FLUSH TOP OF BOX.
 - DUPLEX GROUNDING TYPE RECEPTACLE - 20 AMP, 125 VOLT - NEMA 5-20R. HUBBELL - 5352-1. ARROW HART - 5352-1.
 - SINGLE POLE SWITCHES - 20 AMP, 120/277 VOLT. HUBBELL - 1221-1. ARROW HART - 1991-1.
 - G.F.C.I. RECEPTACLE - 15 AMP, 125 VOLT - NEMA 5-15R. HUBBELL - GF 5262-1 WITH S26 OR PJ26 PLATE OR WP--26 W.P. COVER.
- F. MOTORS AND MOTOR STARTERS**
- MOTORS AND MOTOR DRIVEN EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY OTHERS. MOTOR STARTERS, CONTROLLERS AND CONTROL DEVICES - OTHER THAN TEMPERATURE CONTROL EQUIPMENT AND DEVICES AND STARTERS FOR CONTROLLERS, FURNISHED AS PART OF PACKAGED EQUIPMENT - SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, EXCEPT AS OTHERWISE NOTED.
 - ALL BREAKERS FEEDING MOTOR LOADS SHALL BE HACR TYPE.
- G. GROUNDING**
- ALL BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS.
 - ALL CABLE CONNECTIONS TO GROUND RODS SHALL BE BY "CADWELL", "THERMOWELD", OR "HELLARO" WELDING PROCESS BY USING RECOMMENDED MOLDS, COMPOUND AND CORRECT GAS MIXTURES.
 - THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC 250.24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250.30.
 - ENCLOSURES NOT REQUIRING A GROUND BAR SHALL HAVE ALL GROUND CONDUCTORS CONNECTED TOGETHER AND A PIGTAIL THE SIZE OF THE LARGEST CONDUCTOR BONDED TO THE ENCLOSURE WITH A SINGLE GROUND CONNECTOR USED FOR NO OTHER PURPOSE.
 - AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT WITH NORMAL WIRING CONNECTOR TO: 1) THE GROUND PIGTAIL TO RECEPTACLE; 2) THE GROUND PIGTAIL TO BOX GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN. METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.
 - MOTOR TERMINAL BOXES SHALL BE GROUNDED BY THE USE OF MANUFACTURER SUPPLIED GROUND LUG OR BY DRILLING AND TAPPING A HOLE FOR A GROUND SCREW. REMOVE PAINT PRIOR TO MAKING THE CONNECTION.
 - LIGHTING FIXTURES SHALL BE GROUNDED BY THE USE OF A MANUFACTURER SUPPLIED GROUND LUG OR PIGTAIL OR BY THE USE OF GROUND CLIPS FASTENED ON BARE METAL THAT IS FREE OF PAINT.
 - CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.
- H. TELEPHONE CONDUIT SYSTEM**
- CONDUIT FOR TELEPHONE WALL OUTLET SHALL BE A MINIMUM OF 3/4" UNLESS SHOWN OTHERWISE.
 - TELEPHONE OUTLET BOXES SHALL BE SINGLE GANG. PLATES SHALL BE FURNISHED AND INSTALLED BY THE OWNER.
 - CONDUIT SYSTEM SHALL BE CONTINUOUS FROM OUTLETS TO TELEPHONE BACKBOARD. INSTALL PULL STRING IN ALL EMPTY CONDUITS.
- I. FIRE ALARM SYSTEM**
- FURNISH AND INSTALL ALL EQUIPMENT AND ACCESSORIES TO EXPAND THE EXISTING FIRE ALARM SYSTEM TO THE FIRE ALARM DEVICES ADDED UNDER THIS PROJECT.
 - FIRE ALARM INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE OHIO BUILDING CODE, AND LOCAL CODE AND BUILDING AUTHORITY REQUIREMENTS.
 - PROVIDE FIRE ALARM SYSTEM MODIFICATION SHOP DRAWINGS SIGNED AND SEALED BY THE SYSTEM DESIGNER FOR PLAN REVIEW AND PERMITTING.
 - IN THE EVENT OF AN OPEN OR GROUNDED CIRCUIT IN THE SYSTEM, A TROUBLE SIGNAL AND TROUBLE LAMP SHALL BE ACTIVATED UNTIL THE SYSTEM IS RESTORED TO NORMAL.
 - EACH NEW DEVICE CONNECTED TO THE FIRE ALARM CONTROL PANEL SHALL BE INDIVIDUALLY TESTED AS INSTALLED IN THE BUILDING UNDER THE SUPERVISION OF AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE.
 - AUDIBLE AND VISUAL DEVICES SHALL BE WALL MOUNTED AS SHOWN ON DRAWINGS AND HAVE 15/75 CANDELA 24 VDC XENON FLASH UNIT, CLEAR TAMPER-RESISTANT LEXAN LENS, RED SEMI-FLUSH BASE ASSEMBLY STATING "FIRE", MINIMUM 8B DBA (AT 10 FT.)
 - ALL WIRING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. THIS CONTRACTOR SHALL PROVIDE FOR THE SERVICES OF THE EQUIPMENT MANUFACTURER'S REPRESENTATIVE TO ASSIST IN FINAL CONNECTIONS, ADJUSTMENTS, AND TESTS.
 - WIRE AND CABLE SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



#	Date	Change Description

**Dublin City Hall Lobby
Interior Renovation**

5200 Emerald Parkway
Dublin, Ohio 43017

City of Dublin
for
City of Dublin, Ohio

MOODY-NOLAN, INC.
architecture civil engineering interior architecture

300 Spruce Street Phone: (614) 461-4664
Suite 300 Fax: (614) 280-8881
Columbus, Ohio 43215 www.moodynolan.com

E3-0-13031.DWG

PRATER
Engineering Associates, Inc.

6130 Wilcox Road (614) 766 4896
Dublin, Ohio 43016 FAX: (614) 766 2354

DESIGNED BY BAO	DRAWN BY BAO	CHECKED BY DLP	JOB NUM. 13031
--------------------	-----------------	-------------------	-------------------

Dwg. Coord.:	Tech. Coord.:	M/N # 12340
ELECTRICAL SCHEDULES		E3.0
BID / PERMIT SET		3-27-2013