LINCOLN APARTMENTS
BUILDING EXTERIOR REMODELING
&
SITE RENOVATIONS

AT

815 LINCOLN WAY EAST
MASSILLON, OHIO 44707-1131

PREPARED FOR:

STARK METROPOLITAN HOUSING AUTHORITY
400 EAST TUSCARAWAS STREET

PREPARED BY:

KARL R. ROHRER ASSOCIATES, INCORPORATED
3810 RIDGEWOOD ROAD AKRON, OHIO 44321

APPROVED: Date 07 31 07 By

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DATES & REVISIONS	
OWNER REVIEW	01/10/2007
BUILDING DEPARTMENT	07/23/2007

STATE OF OHIO
EDWARD M. MONACO
6327
REGISTERED ARCHITECT

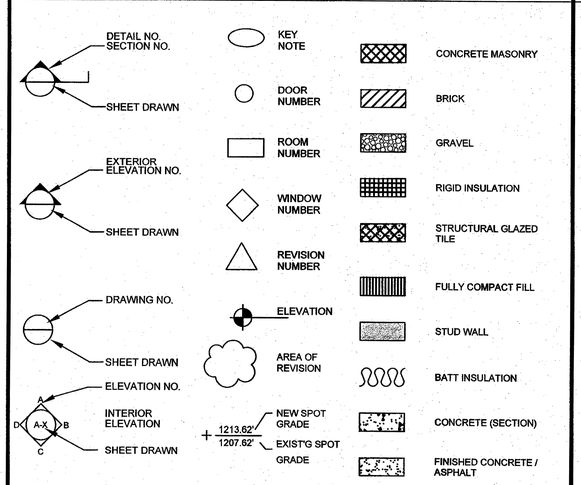
TITLE SHEET

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST
MASSILLON, OHIO 44646

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TS1

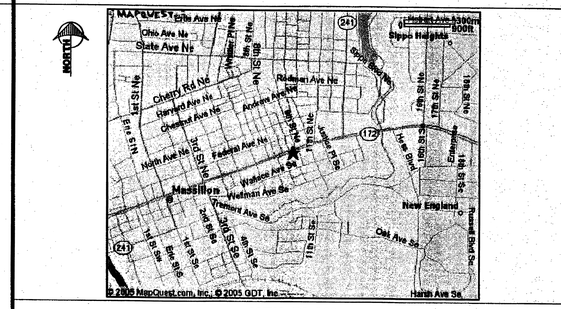
SYMBOL SCHEDULE



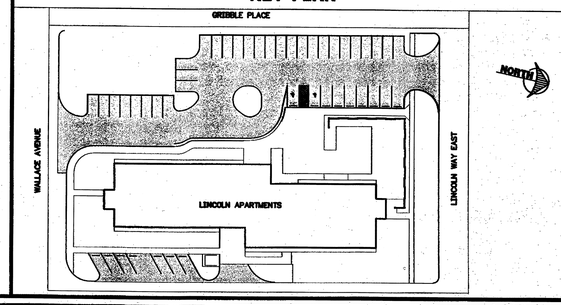
ABBREVIATIONS

ABV	above	FLR	floor(ing)	PVC	polyvinyl chloride
AFF	above finished floor	FND	foundation	PCF	pounds per cubic foot
ACT	acoustical tile	FT	foot	PLF	pounds per lineal foot
A/C	air conditioning	FD	floor drain	PSF	pounds per square foot
ALT	alternate	FTG	footing	PSI	pounds per square inch
ALUM	aluminum	GA	gauge	QT	quarry tile
AB	anchor bolt	GC	general contract(or)	R	radius
ANC	anchor	GL	glass, glazing	REFRIG	refrigerator
ANOD	anodized	GR	grade, grading	REV	revision(s), revised
ARCH	architect(ural)	GRVL	gravel	RA	return air
ASPH	asphalt	HB	hose bibb	R/W	right of way
BSMT	basement	HDW	hardware	RD	roof drain
BRG	bearing	HTG	heating	R.O.	rough opening
B.M.	bench mark	HVAC	heating, ventilating, air	R.S.	rough sawn
BM	beam	HM	conditioning	SCH	schedule
BLK	block	HGT	hollow metal	SECT	section
BLKG	blocking	HORIZ	heighthorizontal	SHT	sheet
BOT	bottom	HWH	hot water heater	SIM	similar
BLDG	building	INCL	include(d)(ing)	SC	solid core
BRK	brick	ID	inside diameter	SPEC	specification(s)
BUR	built up roofing	INSUL	insulate(d)(ion)	SQ	square
CAB	cabinet	INT	interior	S.S.	stainless steel
CB	catch basin	JC	janitor's closet	STD	standard
C.C.	center to center	JT	joint	STL	steel
CER	ceramic	JST	joist	STO	storage
CLG	ceiling	LAM	laminate(d)	SD	storm drain
CT	ceramic tile	LAV	lavatory	STM	storm sewer
COL	column	LL	live load	STR	structural
CONC	concrete	MH	manhole	TEL	telephone
CMU	concrete masonry unit	MFR	manufacture(er)	TOM	top of masonry
CONST	construction	MAS	masonry	T&G	tongue and groove
CONT	continuous or continue	MAT'L	material(s)	TYP	typical
CONTR	contract(or)	M.O.	masonry opening	UR	urinal
CJ	control joint	MAX	maximum	VERT	vertical
C.F.	cubic feet	MECH	mechanic(al)	V.T.	vinyl tile
C.Y.	cubic yard	MTL	metal	WC	water closet
DL	dead load	MIN	minimum	WWM	welded wire mesh
DIA	diameter	MISC	miscellaneous	WH	water heater
DIM	dimension	NOM	nominal	W/O	without
DN	down	NIC	not in contract	W	with
DR	door	NTS	not to scale	WD	wood
DS	down spout	O.C.	on center(s)	#	number
DWG	drawing	O/O	out to out	@	at
DF	drinking fountain	O/	on, over	&	and
DW	dishwasher	OPG	opening	℄	centerline
ELECT	electric(al)	OPP	opposite	℞	plate
ELEV	elevation	OD	outside diameter	Ø	diameter
EQ	equal	OH	overhead/overhang		
EQUIP	equipment	PVMT	pavement		
EXH	exhaust	PLAST	plastic		
EXP	expansion	P/L	property line		
EXT	exterior	PLYWD	plywood		
EW	each way				
FIN	finish(ed)				

LOCATION MAP



KEY PLAN



LIST OF DRAWINGS

TS.1	TITLE SHEET
D1.0	CIVIL DEMOLITION PLAN
C1.0	PAVING PLAN
C1.1	FENCE DETAILS
C1.2	SITE DETAILS
AD1.0	1st & 2nd FLOOR DEMOLITION PLANS
AD1.1	3rd & 4th FLOOR DEMOLITION PLANS
AD1.2	5th & 6th FLOOR DEMOLITION PLANS
AD2.0	EAST AND SOUTH ELEVATION DEMOLITION
AD2.1	WEST AND NORTH ELEVATION DEMOLITION
A1.0	REVISED FIRST FLOOR PLAN AND C.M.U. DETAILS
A1.1	REVISED 2nd THRU 6th FLOOR PLANS
A2.0	SOUTH AND EAST REVISED ELEVATIONS
A2.1	NORTH AND WEST REVISED ELEVATIONS
A3.0	REVISED WALL SECTIONS AT NEW C.M.U. PIERS
A3.1	SECTIONS AND DETAILS
A3.2	NEW ILLUMINATED CANOPY PLAN AND SECTION
EL1.0	PARTIAL FLOOR PLAN / ELEVATORS
P1.0	1st FLOOR PLAN DEMO & NEW WORK - PLUMBING
P1.1	1st FLOOR PLAN DEMO & NEW WORK - PLUMBING
P2.0	LEGEND, NOTES AND DETAILS - PLUMBING
H1.0	1st FLOOR PLAN & 2nd THRU 5th FLOOR PLANS - HVAC
H1.1	ENLARGED 1st FLOOR PLAN & 6th FLOOR PLAN - HVAC
H2.0	NOTES, AND SYMBOL LEGEND - HVAC
H2.1	SCHEDULES - HVAC
E1.0	SITE LIGHTING
E2.0	1st FLOOR OUTDOOR LIGHTING
E2.1	ENLARGED PLAN AND SERVICE DETAILS
E3.0	LOAD CALC., ONE-LINE DIAGRAM AND PANELS
E3.1	PANEL SCHEDULES
E4.0	FIRST AND SECOND FLOOR PLANS
E4.1	THIRD AND FOURTH FLOOR PLANS
E4.2	FIFTH AND SIXTH FLOOR PLANS

CODE INFORMATION

2002 OBC

USE GROUP R-2 - APARTMENTS

CONSTRUCTION TYPE - 2B NON-COMBUSTIBLE / UNPROTECTED

ARCHITECTS • ENGINEERS • PLANNERS • SURVEYORS

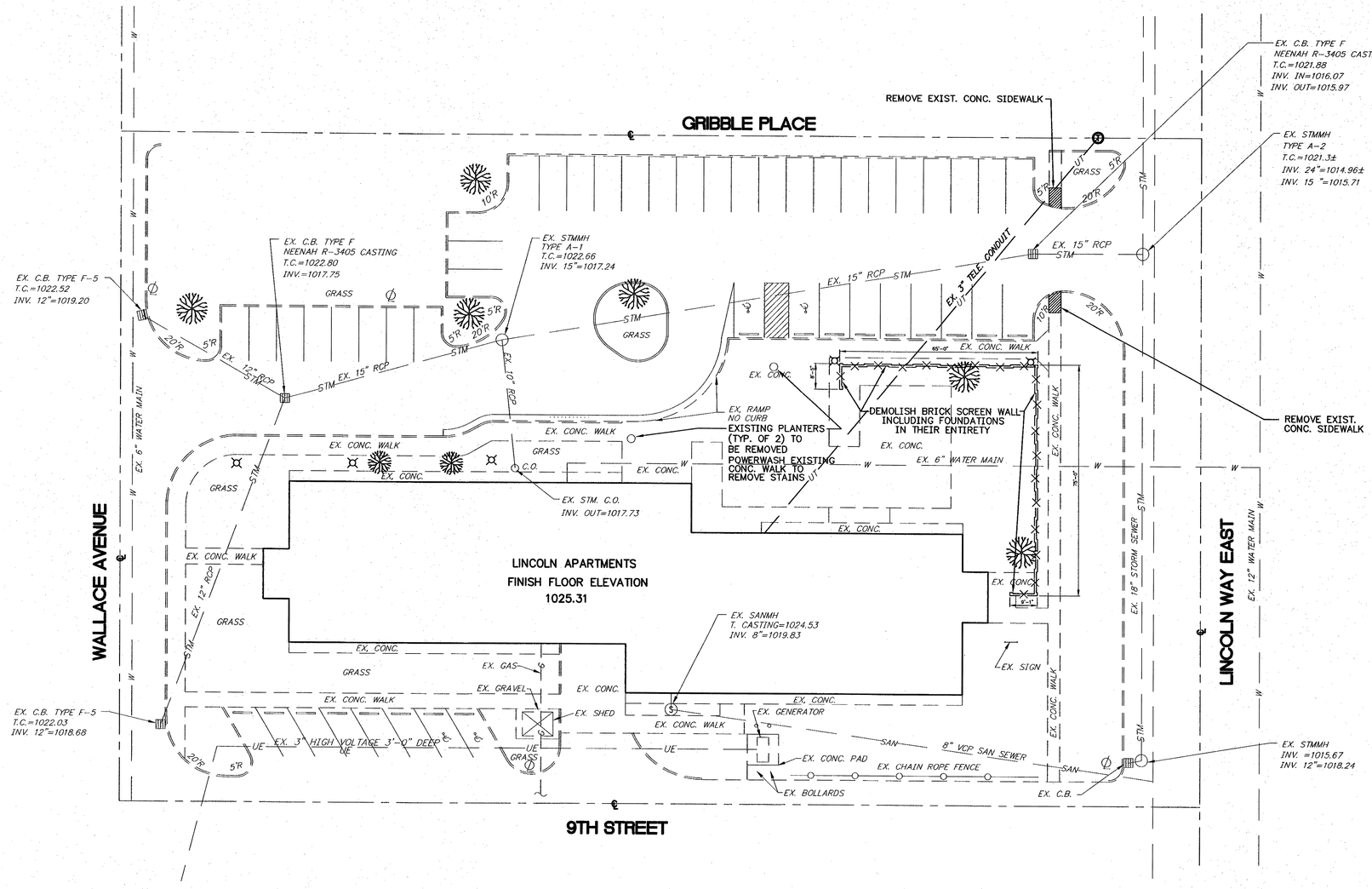
KARL R. ROHRER ASSOCIATES INC.

OFFICES:
3810 Ridgewood Road
Akron, Ohio 44321

PH: 330-666-1127
FAX: 330-668-2788
KRRA@KARLROHRER.COM

GENERAL NOTES:

1. THIS SHEET FOR DEMOLITION AND CLEARING REFERENCES ONLY.
2. CONTRACTOR TO NOTIFY THE OHIO UTILITY PROTECTION SERVICE (O.U.P.S.) 1-800-362-2764, AT LEAST TWO DAYS PRIOR TO THE START OF ANY WORK.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING, AND MAINTAINING THE WORKING CONDITION OF ALL UTILITIES AND STRUCTURES. EXISTING UTILITY INFORMATION IS NOT PURPORTED TO BE EXACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE AT HIS OWN EXPENSE, TO THE OWNER'S SATISFACTION, ANY UTILITIES OR STRUCTURES DAMAGED BY THIS OPERATION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DISTURBANCES RESULTING FROM THIS WORK AT HIS OWN EXPENSE.
5. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE AND PLANNED SEQUENCE OF CONSTRUCTION OPERATIONS FOR ALL REQUIRED WORK TO THE SMHA FOR REVIEW AND APPROVAL PRIOR TO THE START OF ACTUAL CONSTRUCTION WORK.
6. ALL EXISTING UTILITIES ARE VITAL TO THE DAILY OPERATION OF THE SMHA. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN BRACING, SUPPORTS AND OTHER PROTECTIVE MEASURES AS NECESSARY TO MAINTAIN IN SERVICE ALL MECHANICAL AND/OR ELECTRICAL EQUIPMENT, PIPES, CONDUITS OR ANY OTHER UTILITIES THAT ARE EXISTING IN ANY OF THE WORK AREAS. ANY DAMAGE TO SUCH ITEMS SHALL BE REPAIRED, TO THE SMHA'S SATISFACTION, BY THE CONTRACTOR AT HIS OWN EXPENSE.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES IN THE FIELD PRIOR TO THE START OF DEMOLITION. THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS.
8. THE GENERAL CONTRACTOR SHALL TAKE PHOTOGRAPHS OF ALL EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND THE SITE IN DETAIL PRIOR TO THE BEGINNING OF ANY CONSTRUCTION WORK ACTIVITIES. PROVIDE ONE COPY FOR THE SMHA AND ONE COPY FOR THE ENGINEER. PHOTOGRAPHS SHALL BE USED TO LATER VERIFY ANY DAMAGE CAUSED TO EXISTING ITEMS THAT WERE TO REMAIN.
9. ALL AREAS OF EXISTING LAWN, LANDSCAPING, SIDEWALK, BUILDINGS, PAVEMENT, ETC. (NOT CALLED FOR REMOVAL OR REPAIR) DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION, TO THE OWNER'S SATISFACTION, BY THE CONTRACTOR AT HIS OWN EXPENSE.
10. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL TEMPORARY ENCLOSURES, BARRICADES, SIGNS, LIGHTS, FENCES, ETC. AS NECESSARY TO SAFELY PROTECT THE PUBLIC (PEDESTRIAN AND/OR VEHICULAR TRAFFIC) FROM HARM OR INJURY DUE TO ANY OF HIS CONSTRUCTION WORK ACTIVITIES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTION OF HIS WORK DURING THE CONSTRUCTION PERIOD UNTIL FINAL ACCEPTANCE OF THE INSTALLED WORK IS GIVEN BY THE SMHA.
11. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY ITEMS SUCH AS SHORING, BRACING, BARRICADES, ETC. FROM SMHA PROPERTY AFTER IT IS NOT NEEDED OR UPON COMPLETION OF HIS WORK. THE CONTRACTOR IS ALSO RESPONSIBLE FOR FINAL CLEANING OF EACH WORK AREA PRIOR TO FINAL ACCEPTANCE OF INSTALLED WORK BY THE SMHA.
12. CONTRACTOR TO MAINTAIN TRAFFIC THROUGH SITE AT ALL TIMES AND COORDINATE WORK WITH OTHER CONTRACTORS ON SITE AS WELL AS WITH ANY SCHEDULED SMHA ACTIVITIES.
13. ORIGIINAL DESIGN DRAWINGS FOR THE LINCOLN APARTMENTS ARE AVAILABLE FOR REVIEW BY APPOINTMENT ONLY AT THE MAIN OFFICES OF SMHA IN CANTON, OHIO. THESE PLANS ARE NOT WARRANTED FOR EITHER ACCURACY OR COMPLETNESS. THEY ARE AVAILABLE FOR INFORMATIONAL PURPOSES ONLY.



DEMOLITION PLAN

SCALE: 1"=20'-0"

NOTE:
ALL LISTED DIMENSIONS ARE ± FIELD VERIFY FOR THIS EXISTING BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND BIDDER TO FIELD VERIFY ALL DIMENSIONS.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND

- FENCE
- SANITARY SEWER
- WATER
- STORM SEWER
- GAS LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELECOMMUNICATIONS
- OVERHEAD ELECTRIC
- OVERHEAD TELECOMMUNICATIONS
- CONTOUR LINE
- SIGN
- LIGHT POLE
- EXTERIOR LIGHT
- CATCH BASIN
- EXISTING CONCRETE SIDEWALK TO BE REMOVED
- OBJECTS TO BE REMOVED (WALLS, ETC.)
- C.O. SEWER CLEANOUT
- TREE

BENCH MARK
TOP NUT HYDRANT
N.W. CORNER 9th & LINCOLN WAY
ELEVATION = 1124.57
USGS DATUM

UTILITIES:
TWO (2) DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL HAVE THE EXISTING UTILITIES VERIFIED AND STAKED BY THE OHIO UTILITY PROTECTION SERVICES.

UNDERGROUND UTILITIES
2 WORKING DAYS BEFORE YOU DIG
Call...800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

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EDWARD M. MONACO 6327 REGISTERED ARCHITECT STATE OF OHIO

DEMOLITION PLAN

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST MASSILLON, OHIO 44646

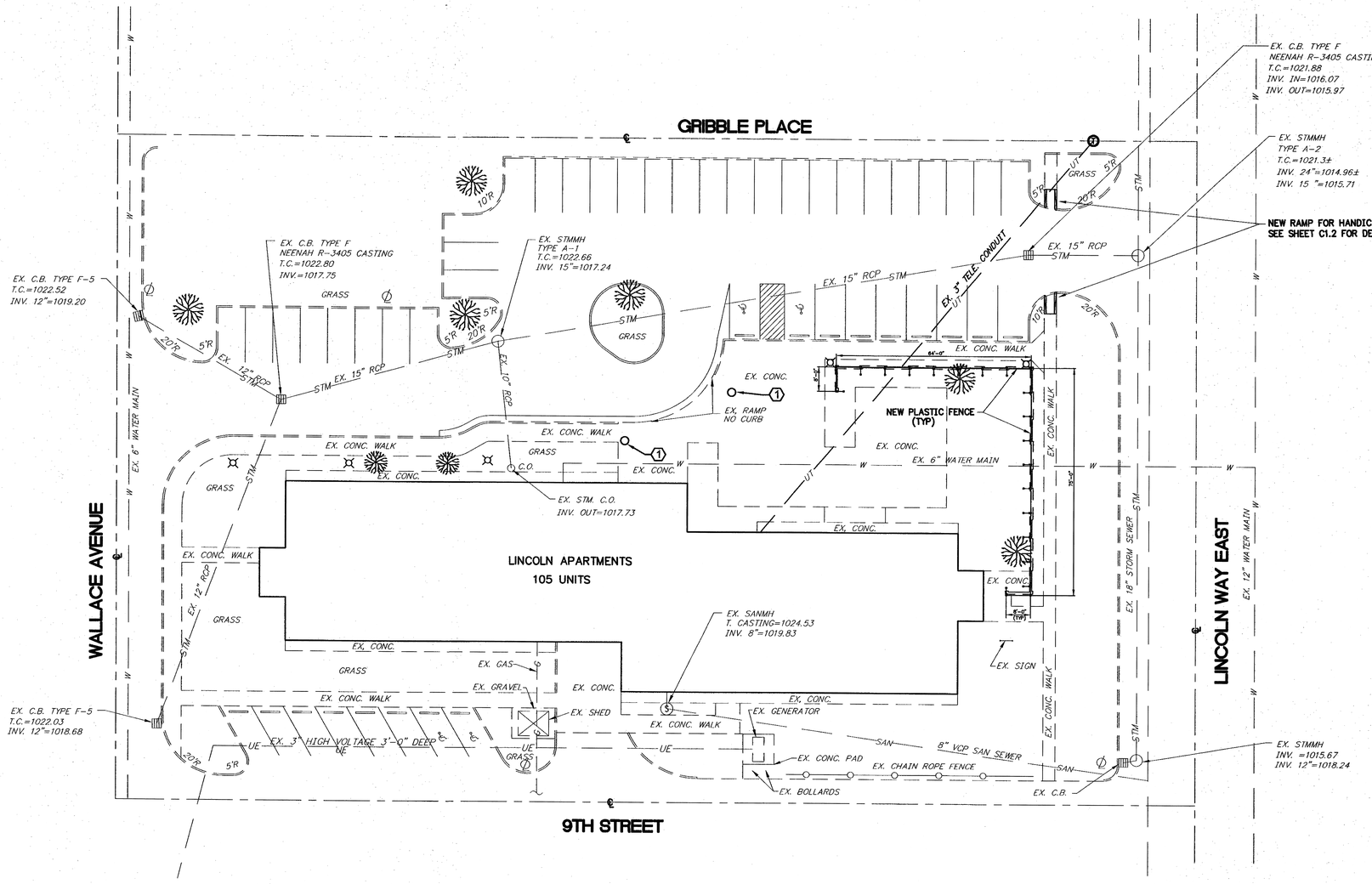
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D1.0

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FAX: 330-668-2788
KRRA@KARLROHRER.COM

NOTES:

1. PROVIDE NEW CONCRETE PLANTERS 36" DIA. x 30" HIGH. #CPR3630 AS MANUFACTURED BY "KAYPARK" OR APPROVED EQUAL. SOILS AND PLANTING BY OTHERS



PAVING PLAN

SCALE: 1"=20'-0"

NOTE:
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GRAPHIC SCALE

30 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND

- FENCE
- SAN — SANITARY SEWER
- W — WATER
- S — STORM SEWER
- G — GAS LINE
- E — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELECOMMUNICATIONS
- E — OVERHEAD ELECTRIC
- T — OVERHEAD TELECOMMUNICATIONS
- CONTOUR LINE
- SIGN
- LIGHT POLE
- EXTERIOR LIGHT
- CATCH BASIN
- OBJECTS TO BE REMOVED (WALLS, ETC.)
- C.O. SEWER CLEANOUT
- TREE
- HANDICAP LOGO

BENCH MARK
TOP NUT HYDRANT
N.W. CORNER 9th & LINCOLN WAY
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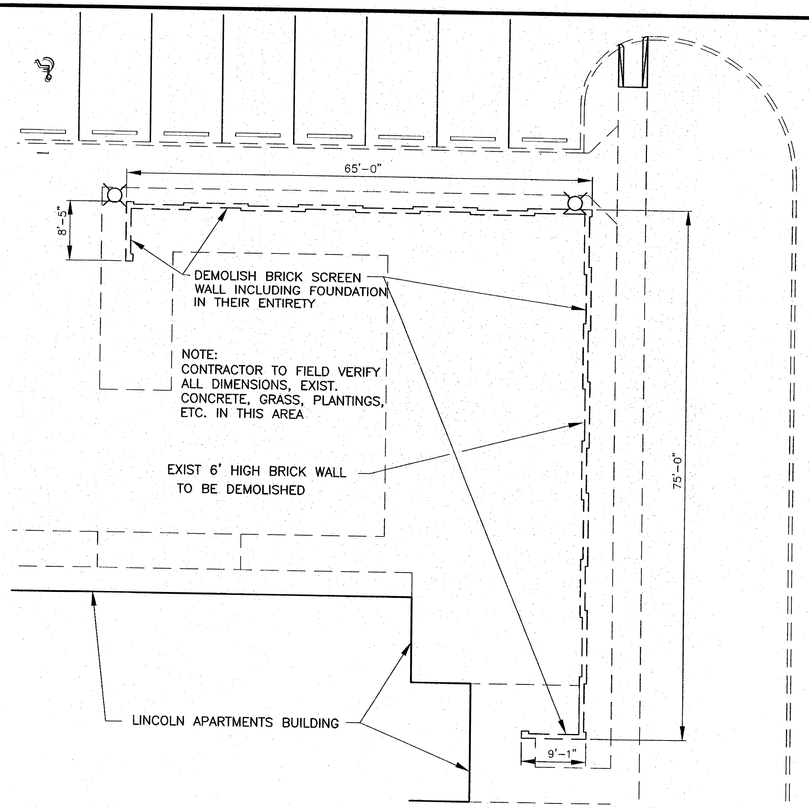
SITE PLAN

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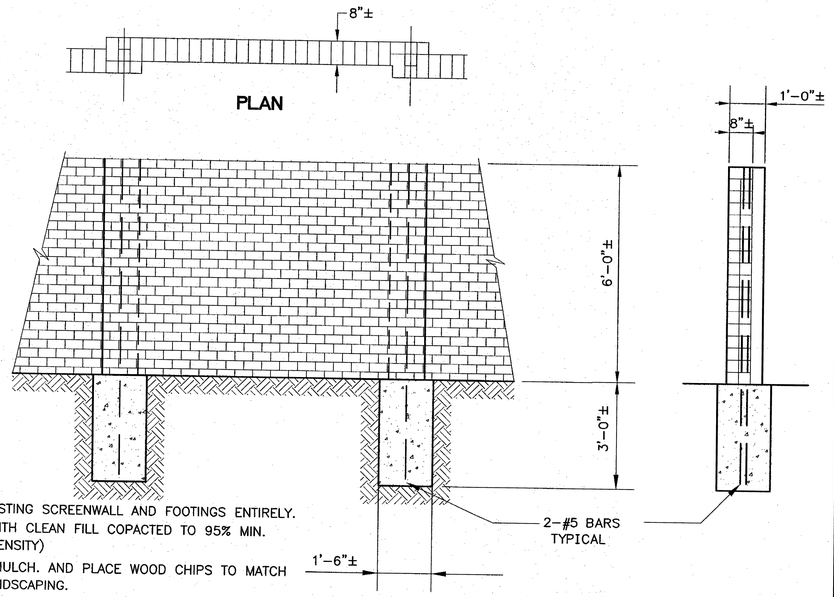
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EXISTING MASONRY SCREENWALL DEMOLITION PLAN

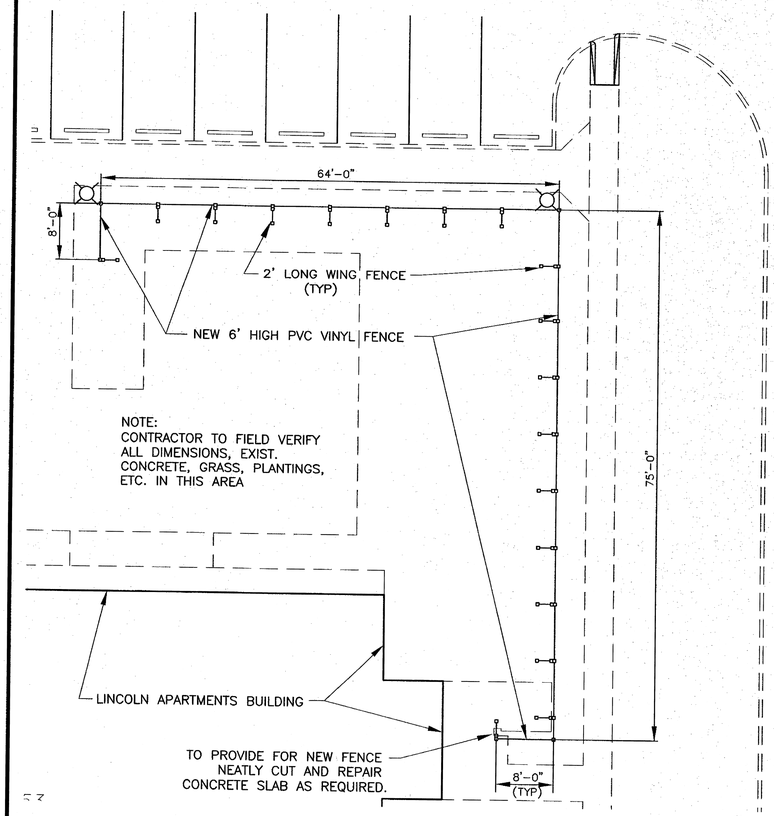
SCALE: 1"=10'-0"



NOTE:
1. REMOVE EXISTING SCREENWALL AND FOOTINGS ENTIRELY.
2. FILL VOID WITH CLEAN FILL COPACTED TO 95% MIN. (MODIFIED DENSITY)
3. SEED AND MULCH. AND PLACE WOOD CHIPS TO MATCH EXISTING LANDSCAPING.

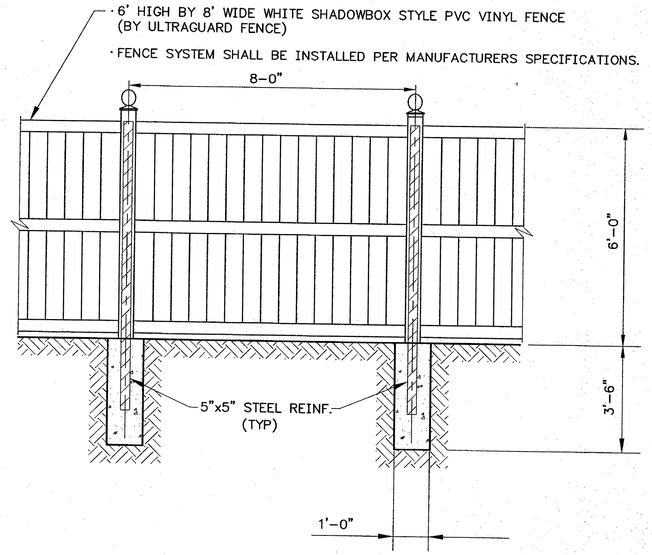
EXISTING MASONRY SCREENWALL DETAILS

SCALE: 1"=20'-0"

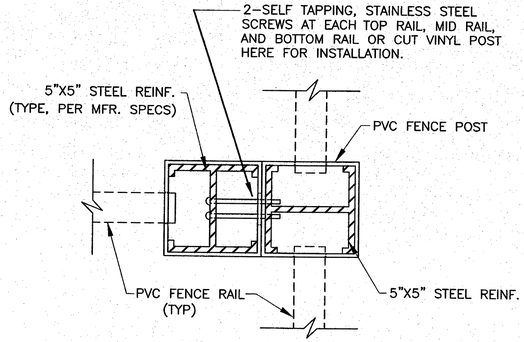


PROPOSED PVC VINYL FENCE PLAN

SCALE: 1"=10'-0"

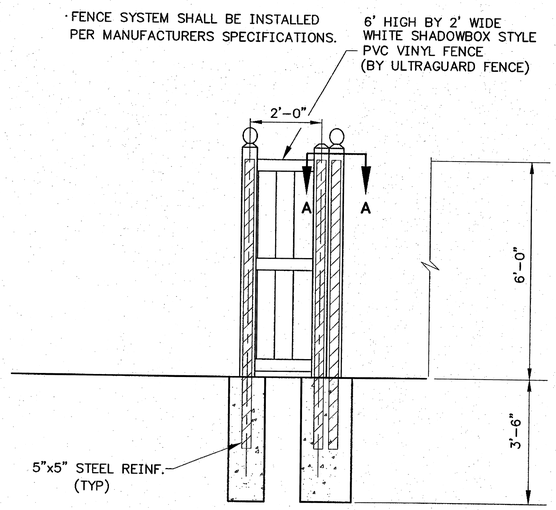


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SECTION A-A

SCALE: NOT TO SCALE



PROPOSED PVC VINYL FENCE DETAILS

SCALE: NOT TO SCALE

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FENCE DETAILS

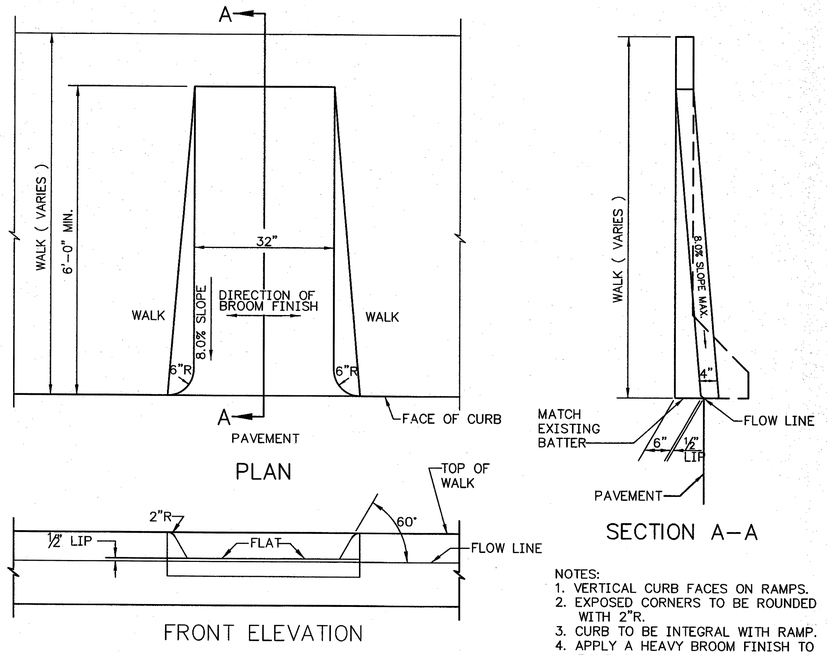
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C1.1

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FAX: 330-668-2788
KRRA@KARLROHRER.COM



NOTES:
1. VERTICAL CURB FACES ON RAMPS.
2. EXPOSED CORNERS TO BE ROUNDED WITH 2"R.
3. CURB TO BE INTEGRAL WITH RAMP.
4. APPLY A HEAVY BROOM FINISH TO RAMP SURFACE.

NEW RAMP FOR HANDICAPPED

NO SCALE

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SITE DETAILS

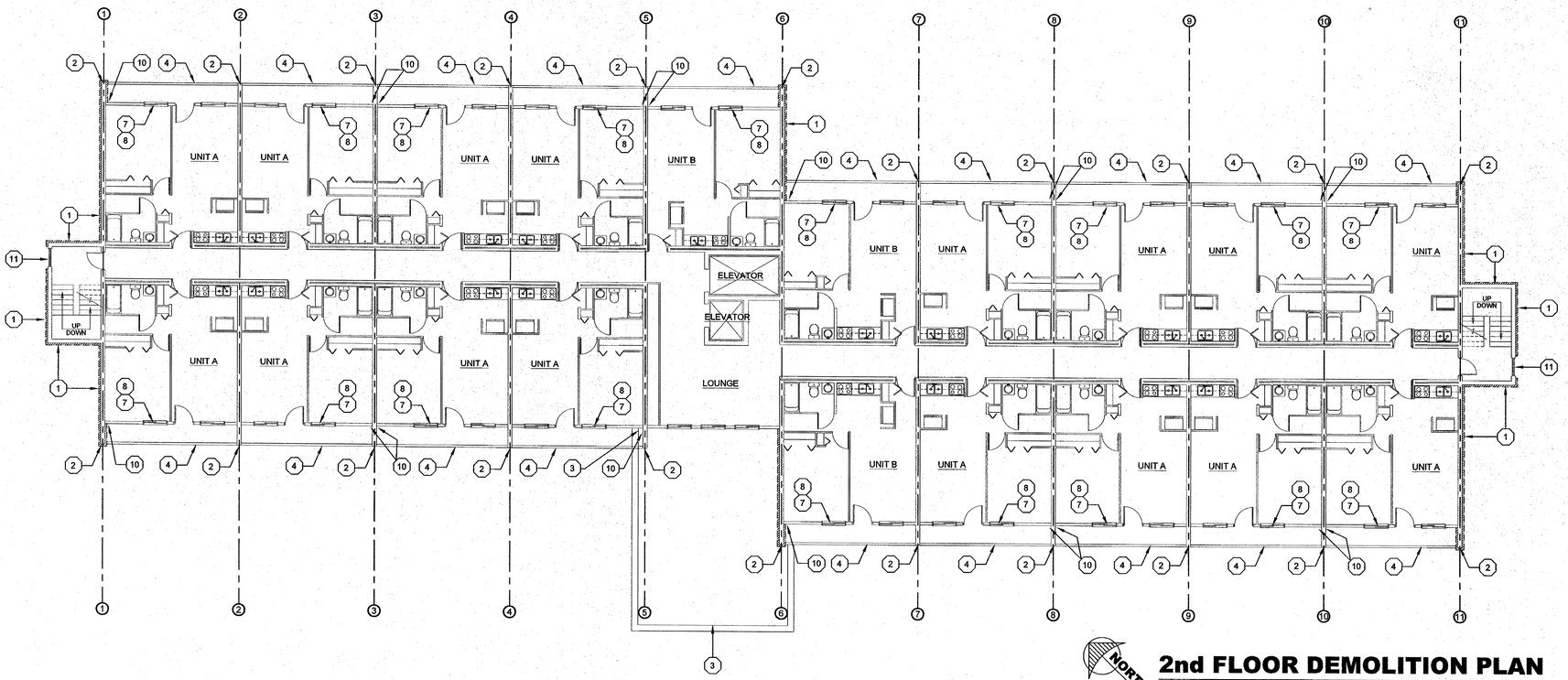
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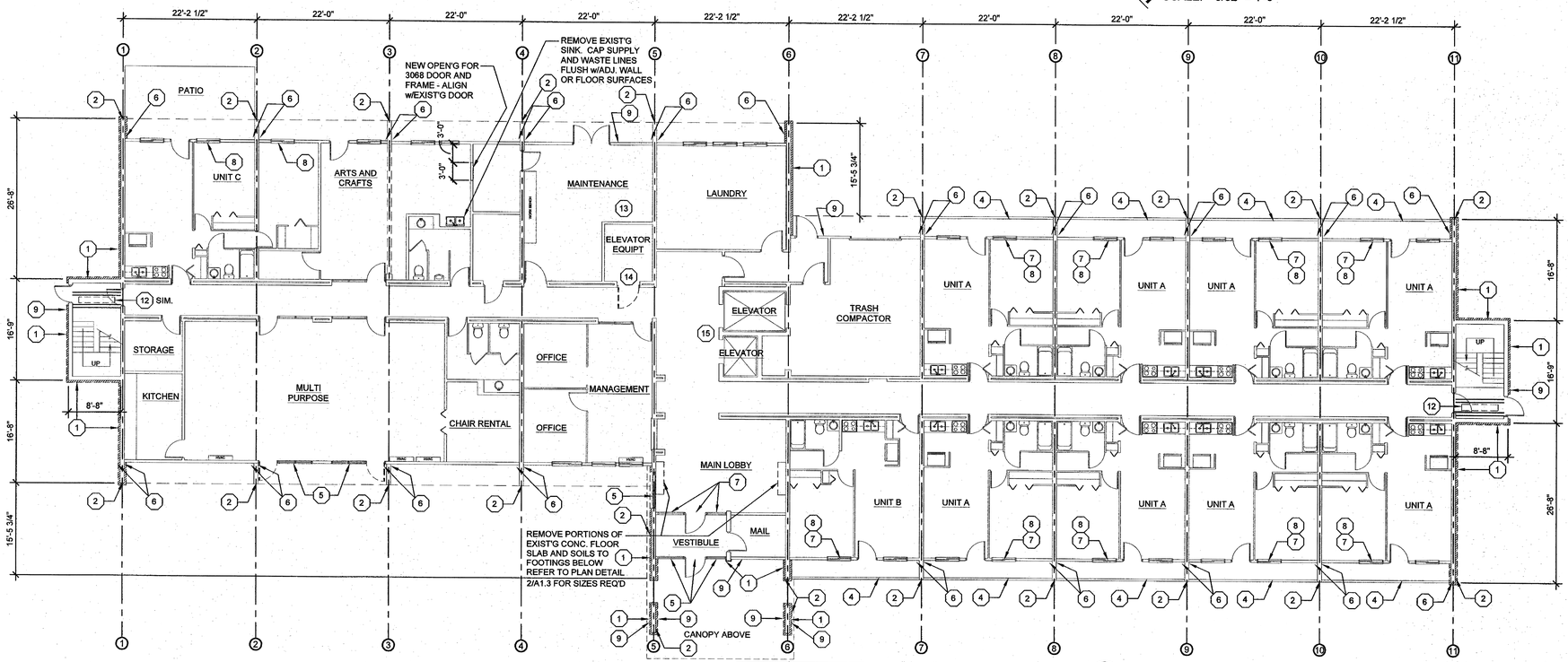
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FAX: 330-668-2788
KRRA@KARLROHRER.COM



NORTH

2nd FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"



NORTH

1st FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

NOTE:
ALL LISTED DIMENSIONS ARE ± FIELD VERIFY FOR THIS EXISTING BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND BIDDER TO **FIELD VERIFY ALL DIMENSIONS.**

DEMOLITION NOTES:

1. THE SITE WILL REMAIN OCCUPIED DURING THE ENTIRE CONSTRUCTION TIME PERIOD. CONTRACTORS SHALL USE EXTREME CAUTION IN AND AROUND THE RESIDENCE UNITS. ACCESS TO INDIVIDUAL UNITS SHALL BE ARRANGED AND COORDINATED THROUGH THE SMHA STAFF. CONTRACTORS SHALL PROVIDE A DETAILED WRITTEN SCHEDULE OF WORK TO THE SMHA STAFF ONE (1) WEEK PRIOR TO REQUIRING ENTRANCE TO A PARTICULAR UNIT. ANY CONFLICTS WITH THE RESIDENTS ARE TO BE REPORTED TO AND RESOLVED BY THE SMHA STAFF.

2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES, OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

3. THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING COMPONENT IS EITHER EXPEDIENT OR NECESSARY, PRIOR TO PROCEEDING WITH WORK.

4. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING. NEW AND EXISTING FINISHES ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED AND REPAIR TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AND RELATED WORK BY THOSE DISCIPLINES.

6. ALL MATERIALS REMOVED DURING DEMOLITION AND CONSTRUCTION SHALL BE DISPOSED OF OFF-SITE IN AN APPROVED LANDFILL.

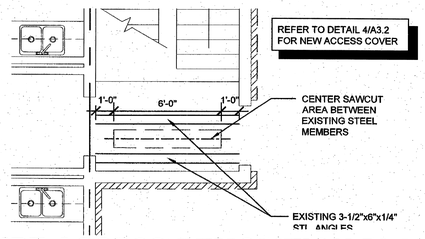
7. OWNER SHALL HAVE RIGHT OF FIRST REFUSAL ON ALL REMOVED ITEMS AND MATERIALS. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

8. CONTRACTOR SHALL CONSTRUCT TEMPORARY 6 MIL TRANSLUCENT, REINFORCED PVC AND WOOD STUD DUST PARTITIONS WITH ACCESS DOOR IN EACH LIVING UNIT TO CONTAIN ALL CONSTRUCTION DEBRIS. PARTITIONS ARE TO BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION AND REMOVED ONLY WHEN THE WORK IN THAT PARTICULAR UNIT IS COMPLETE.

DEMOLITION CODED NOTES:

(THESE CODED NOTES ARE FOR THIS DRAWING ONLY.)

1. REMOVE EXISTING STONE VENEER AND ASSOCIATED MORTAR, COMPLETE, DOWN TO ORIGINAL CONCRETE SUBSTRATE. POWER WASH THE CONCRETE TO REMOVE ANY REMAINING MORTAR OR DEBRIS. PROVIDE PROTECTION FOR ALL EXISTING LANDSCAPING, UTILITIES AND FINISH MATERIALS WHICH ARE TO REMAIN. REMOVE ALL DEBRIS MATERIAL FROM SITE AND DISPOSE OF PROPERLY.
2. REMOVE ANY LOOSE OR DAMAGED CONCRETE MATERIALS ENCOUNTERED AT FACE OF PIERS AND BALCONY PLANK BEARING. DISPOSE OF DEBRIS MATERIALS PROPERLY. REMOVE MATERIALS WHICH WILL NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF SUCH AREAS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION PRIOR TO CONTINUING WORK. FINAL DETERMINATION OF HOW THE WORK IS TO PROCEED WILL BE AT THE DISCRETION OF THE ARCHITECT AND HIS CONSULTING STRUCTURAL ENGINEER. CONTRACTOR SHALL PROVIDE SOUND TESTS FOR DAMAGED AREAS DETERMINED TO BE OF GREATEST STRUCTURAL INTEGRITY CONCERN AND SHALL SUBMIT THEM TO THE ARCHITECT FOR HIS REVIEW AND EVALUATION.
3. REMOVE PORTIONS OF EXISTING ENTRY CANOPY FASCIA DOWN TO WOOD STUD SUBSTRATE. PREPARE FOR NEW ILLUMINATED CANOPY STRUCTURE.
4. REMOVE EXISTING BALCONY RAILINGS - COMPLETE. PROVIDE TEMPORARY RAILING PROTECTION UNTIL SUCH TIME AS NEW RAILINGS ARE INSTALLED. FILL ALL HOLES WITH NON-SHRINK GROUT.
5. REMOVE EXISTING ALUMINUM STOREFRONT WINDOW AND DOOR SYSTEM. PREP OPENING FOR INSTALLATION OF NEW WALL IN-FILL MATERIALS AND NEW ALUMINUM STOREFRONT SYSTEM.
6. REMOVE PORTIONS OF EXISTING CONCRETE SLABS AS REQUIRED TO INSTALL NEW C.M.U. PIERS AND ASSOCIATED FOUNDATIONS. ALL SLABS TO BE REMOVED SHALL FIRST BE SAWCUT TO SEPARATE THEM FROM MATERIALS AND FINISHES TO REMAIN AND ALLOW FOR A SMOOTH TRANSITION WITH NEW FINISH MATERIALS.
7. EXISTING VINYL SIDING TO BE REMOVED FROM FACE OF UNITS. REPAIR OR REPLACE ANY DAMAGED EXISTING SHEATHING WITH SIMILAR MATERIALS. FILL ANY HOLES WITH APPROPRIATE GROUT AND PREPARE SURFACE FOR NEW FINISH MATERIALS.
8. REMOVE EXISTING WINDOW UNITS AND PORTIONS OF EXISTING EXTERIOR WALL AS REQUIRED FOR NEW PTAC UNIT INSTALLATION. PREPARE WINDOW FOR RE-INSTALLATION.
9. EXISTING LIGHT FIXTURE TO BE REMOVED AND REPLACED. REFER TO ELECTRICAL DRAWINGS.
10. REMOVE PORTIONS OF EXISTING STEEL ANGLE BRACING AT UNDERSIDE OF BALCONIES AT BUILDING WALL TO ALLOW FOR CORE DRILLING OF CONCRETE PLANK FOR NEW PTAC CONDENSATE DRAINS.
11. EXISTING VINYL SIDING BETWEEN WINDOWS OF STAIRWELLS TO BE REMOVED. REPAIR OR REPLACE ANY DAMAGED EXISTING SHEATHING WITH SIMILAR MATERIALS.
12. PROVIDE 12"x72" OPENING IN EXISTING CONCRETE FLOOR SLAB FOR PIPE ACCESS TO PIPE CHASE UNDER 1ST FLOOR CORRIDOR.
13. REMOVE ALL EXISTING WALL VENTILATION GRILLES AND PREPARE OPENINGS TO BE IN-FILLED w/NEW MATERIALS SIM. TO ADJACENT WALLS.
14. REMOVE EXISTING DOOR AND ASSOCIATED HARDWARE. PREPARE FRAME FOR NEW HARDWARE.
15. REFER TO DWG. EL1.0 AND THE SPECIFICATIONS FOR ELEVATOR-RELATED WORK.



PIPE ACCESS DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

NOTICE

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OWNER REVIEW	01/10/2007
BUILDING DEPARTMENT	07/23/2007

STATE OF OHIO
EDWARD M. MONACO
6327
REGISTERED ARCHITECT

1st & 2nd FLOOR DEMOLITION PLANS

STARK METROPOLITAN HOUSING AUTHORITY

LINCOLN APTS. REMODELING & SITE RENOVATIONS

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MASSILLON, OHIO 44646

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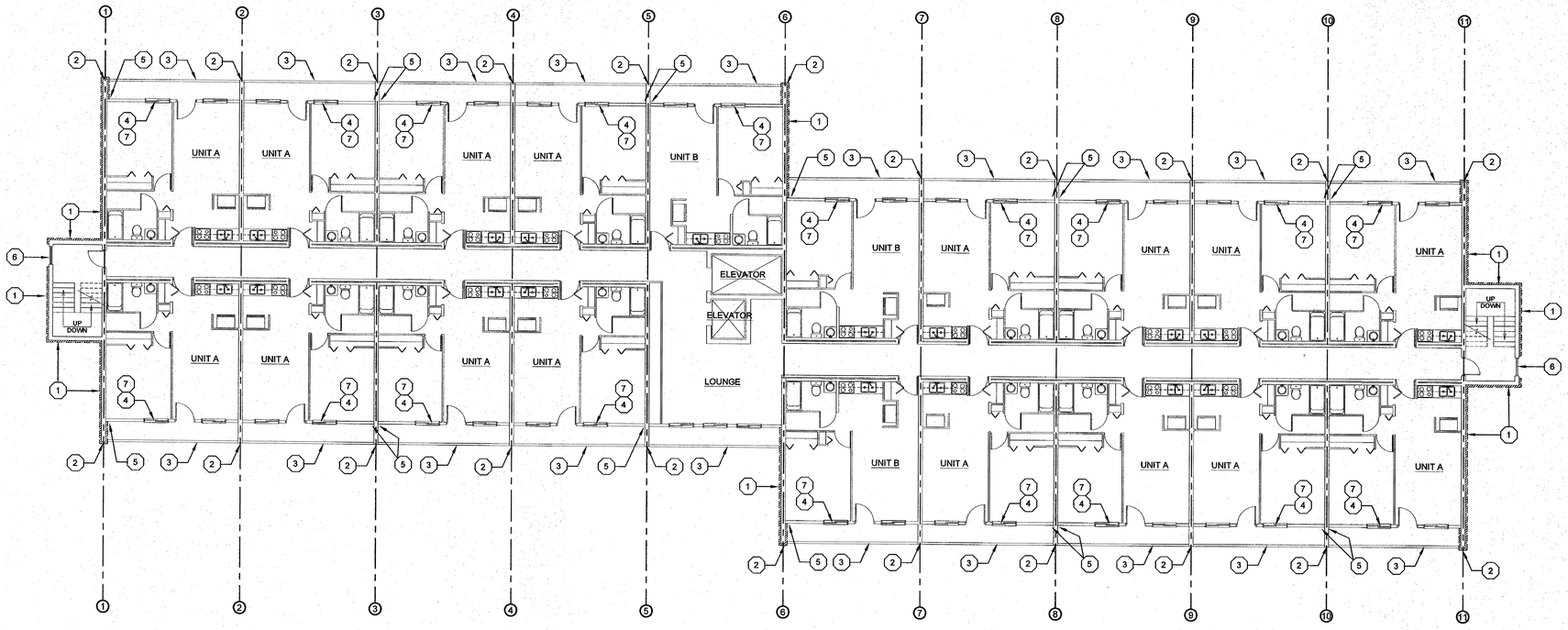
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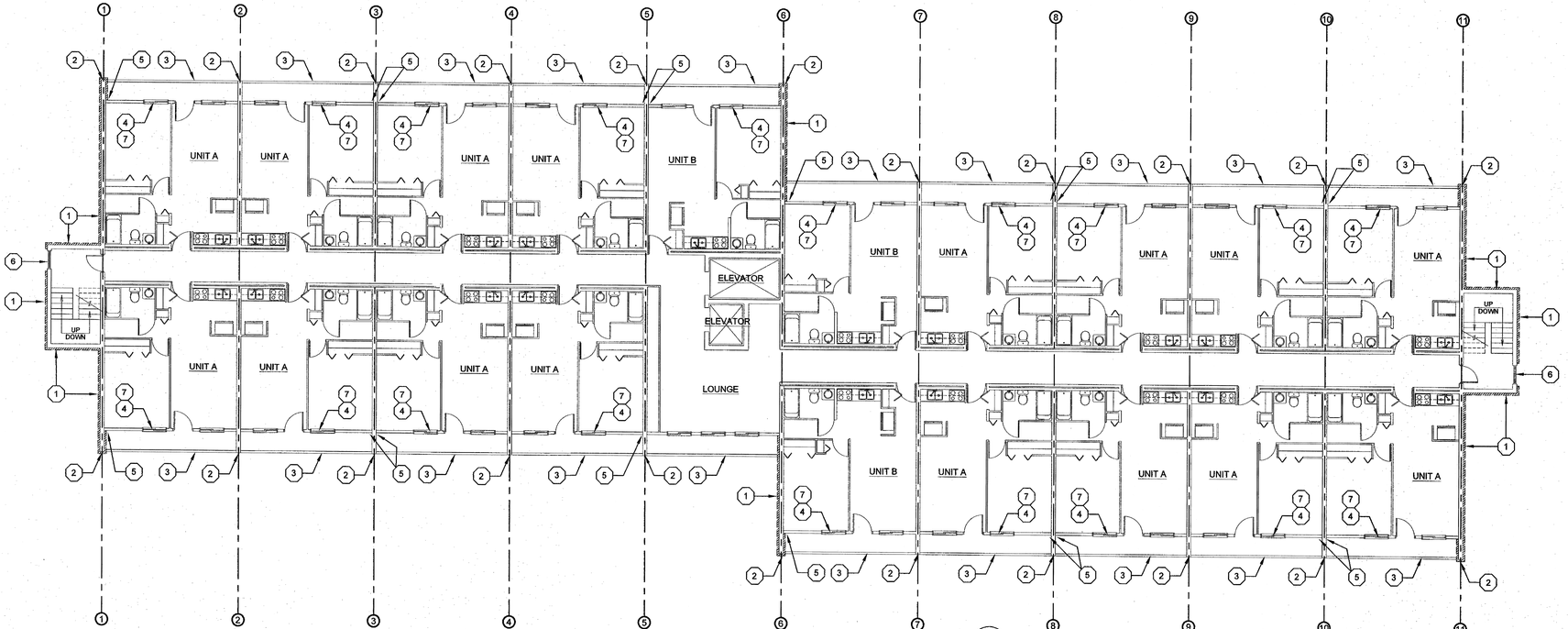
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NORTH

4th FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"



NORTH

3rd FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

DEMOLITION NOTES:

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OWNER REVIEW	01/10/2007
BUILDING DEPARTMENT	07/23/2007

STATE OF OHIO
EDWARD M. MONACO 6327
REGISTERED ARCHITECT

3rd & 4th FLOOR DEMOLITION PLANS

STARK METROPOLITAN HOUSING AUTHORITY

LINCOLN APTS. REMODELING & SITE RENOVATIONS

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MASSILLON, OHIO 44646

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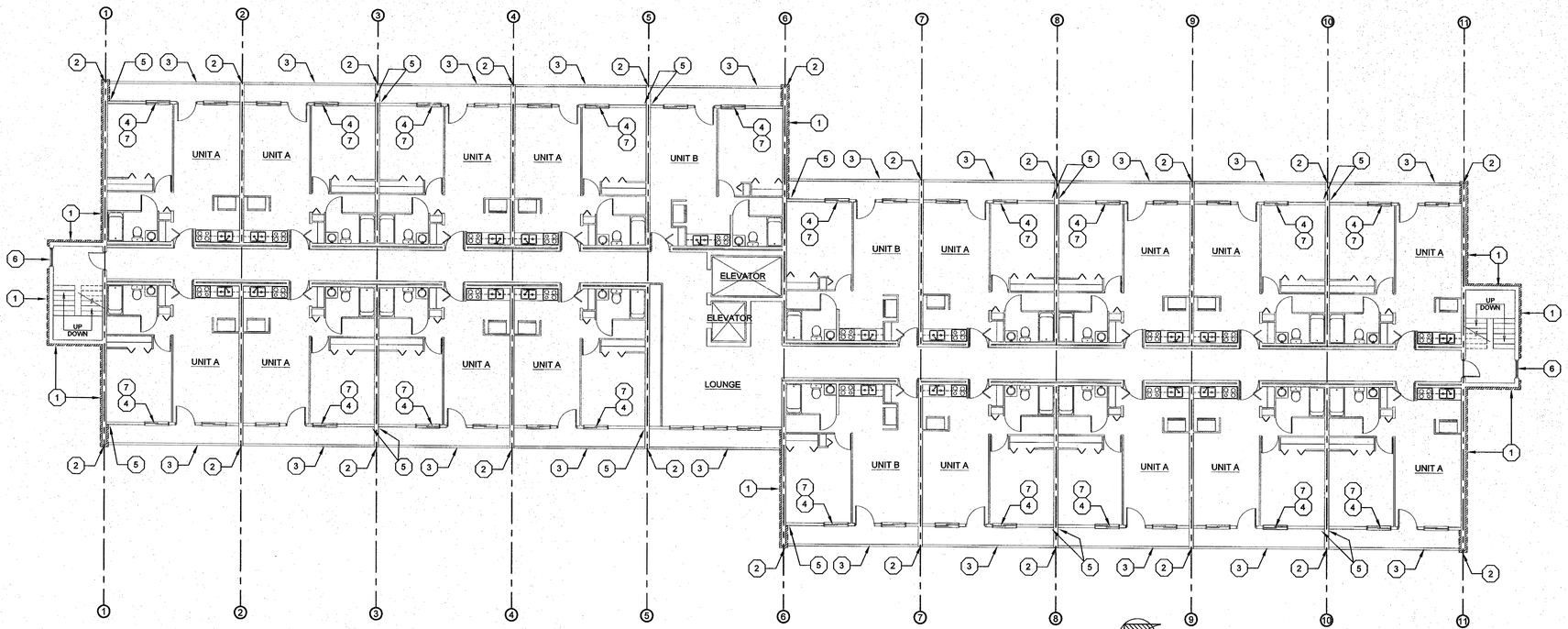
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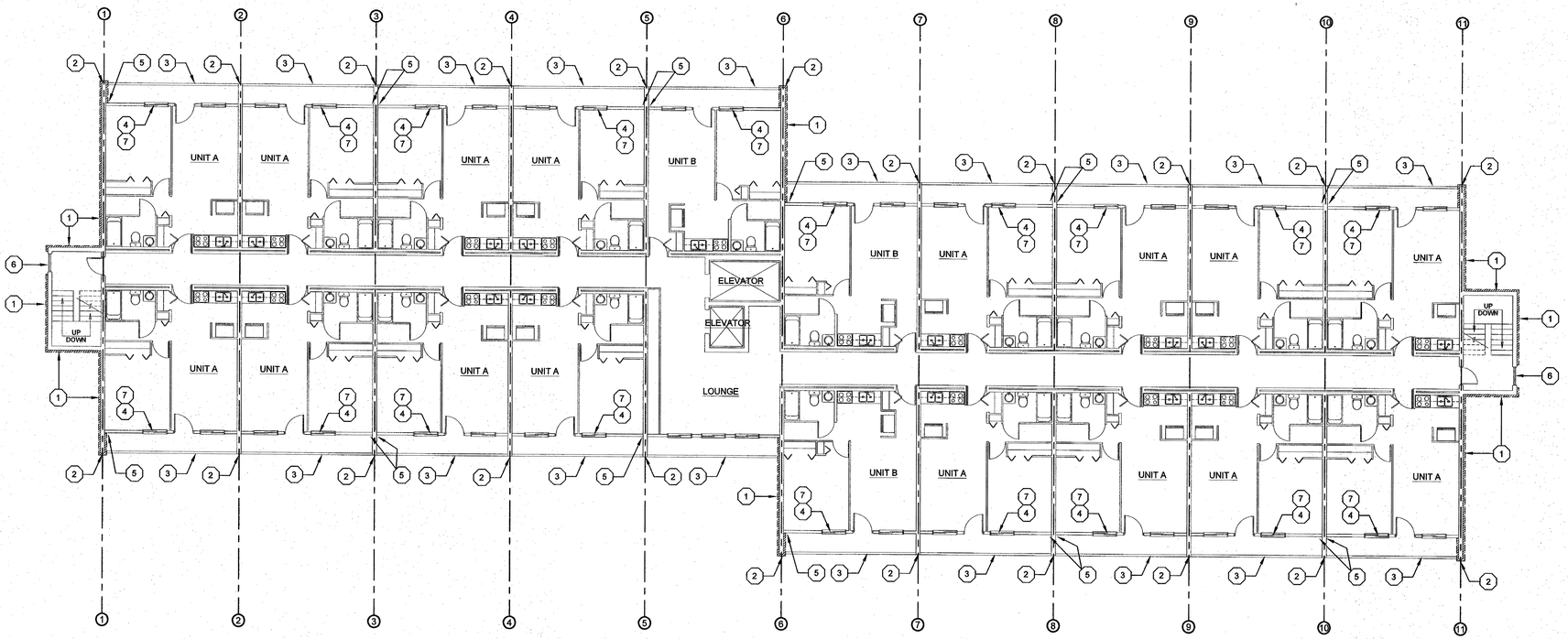
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KRRA@KARLROHRER.COM



NORTH

6th FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"



NORTH

5th FLOOR DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

DEMOLITION NOTES:

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(5) REMOVE PORTIONS OF EXISTING STEEL ANGLE BRACING AT UNDERSIDE OF BALCONIES AT BUILDING WALL TO ALLOW FOR CORE DRILLING OF CONCRETE PLANK FOR NEW PTAC CONDENSATE DRAINS.

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BUILDING DEPARTMENT	07/23/2007

STATE OF OHIO
REGISTERED ARCHITECT
EDWARD M. MONACO 6327

5th & 6th FLOOR DEMOLITION PLAN

STARK METROPOLITAN HOUSING AUTHORITY

LINCOLN APTS. REMODELING & SITE RENOVATIONS

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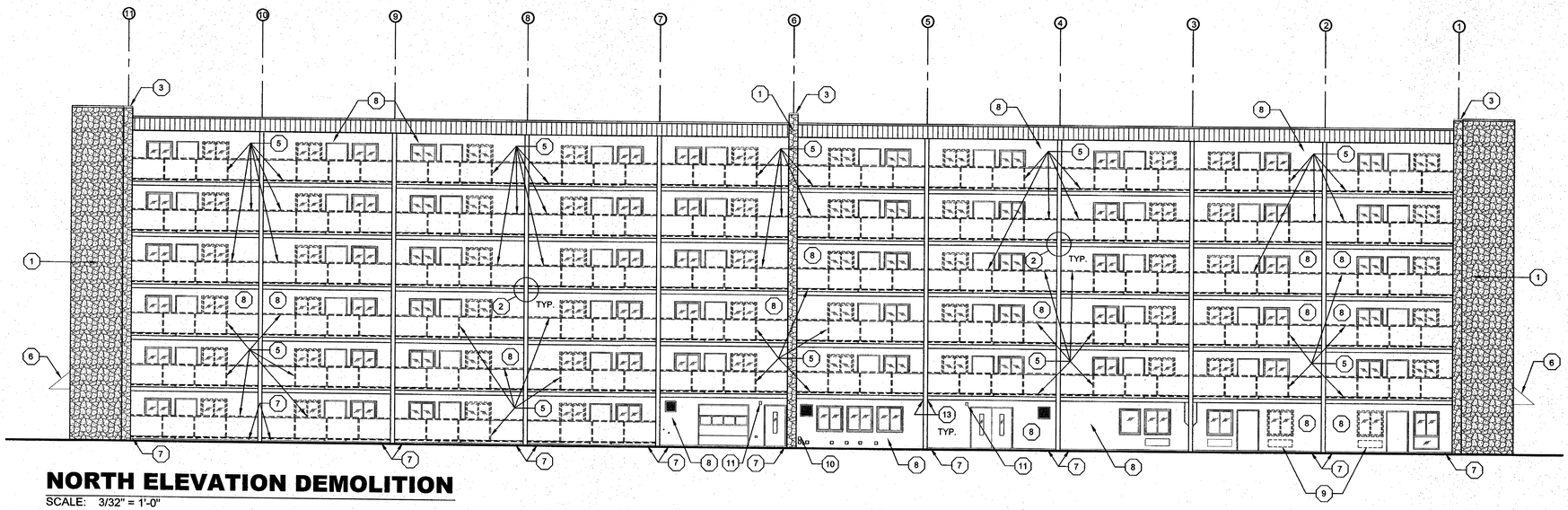
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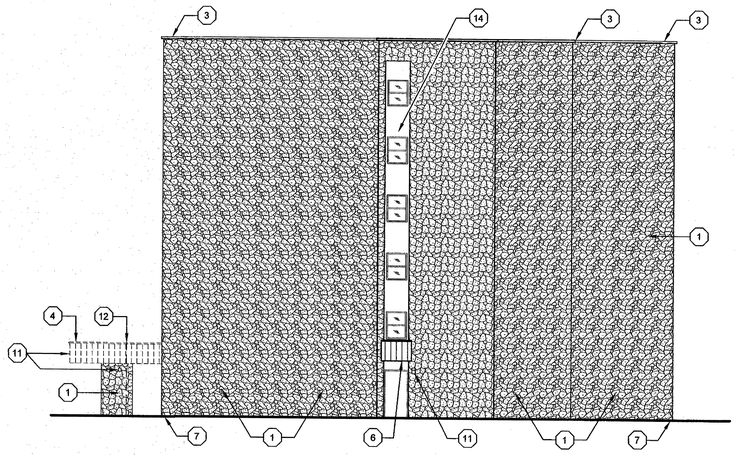
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NORTH ELEVATION DEMOLITION

SCALE: 3/32" = 1'-0"



EAST ELEVATION DEMOLITION

SCALE: 3/32" = 1'-0"

DEMOLITION CODED NOTES:

(THESE CODED NOTES ARE FOR THIS DRAWING ONLY.)

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3. REMOVE PORTIONS OF EXISTING ALUMINUM CAP FLASHING, PORTIONS OF EXISTING ROOFING MEMBRANE, INSULATION, BALLAST, AND OTHER ROOFING MATERIALS AS REQUIRED TO INSTALL NEW C.M.U. VENEER AT BALCONIES. PREP SURFACES FOR INSTALLATION OF NEW MATERIALS ASSOCIATED WITH NEW C.M.U. VENEER, EXTERIOR FINISH MATERIALS, OR TIE-INS TO EXISTING MATERIALS THAT REMAIN TO CONFORM WITH REQUIREMENTS OF THE OWNER'S ROOFING WARRANTIES. BUILDING IS TO REMAIN WATERTIGHT THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION AS REQUIRED.
4. REMOVE PORTIONS OF EXISTING ENTRY CANOPY FASCIA AND SOFFIT MATERIALS DOWN TO WOOD SUBSTRATE AND PREPARE FOR NEW ILLUMINATED CANOPY STRUCTURE.
5. REMOVE EXISTING BALCONY RAILINGS - COMPLETE. PROVIDE TEMPORARY RAILING PROTECTION UNTIL SUCH TIME AS NEW RAILINGS ARE INSTALLED. FILL ALL HOLES WITH NON-SHRINK GROUT.
6. REMOVE EXISTING STANDING SEAM METAL ROOFING. EXISTING SUB-FRAMING TO REMAIN. CONTRACTOR TO INSPECT FRAMING AND REPORT ANY DAMAGE TO ARCHITECT. PREP FOR NEW ROOFING MATERIAL.
7. REMOVE PORTIONS OF EXISTING CONCRETE SLABS AS REQUIRED TO INSTALL NEW C.M.U. VENEER PIERS AND ASSOCIATED FOUNDATIONS. ALL SLABS TO BE REMOVED SHALL FIRST BE SAWCUT TO SEPARATE THEM FROM MATERIALS AND FINISHES TO REMAIN AND ALLOW FOR A SMOOTH TRANSITION WITH NEW FINISH MATERIALS.
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9. REMOVE ALL EXISTING WINDOW UNITS AND PORTIONS OF EXISTING EXTERIOR WALLS AS REQUIRED FOR NEW PTAC UNIT INSTALLATION. PREPARE WINDOW FOR RE-INSTALLATION. REFER TO DEMO PLANS FOR OTHER LOCATIONS.
10. REMOVE AND RELOCATE EXISTING KITCHEN AND LAUNDRY EXHAUST VENTS AS REQUIRED TO AVOID NEW C.M.U. PIERS.
11. EXISTING LIGHT FIXTURE TO BE REMOVED AND/OR REPLACED. REFER TO ELECTRICAL DRAWINGS.
12. REMOVE AND RELOCATE EXISTING SURFACE-MOUNTED ELECTRICAL CONDUIT AND ASSOCIATED WIRING. TO BE CONCEALED IN NEW C.M.U. PIER.
13. REMOVE PORTIONS OF EXISTING STEEL ANGLE BRACING AT UNDERSIDE OF BALCONIES AT BUILDING WALL TO ALLOW FOR CORE DRILLING OF CONCRETE PLANK FOR NEW PTAC CONDENSATE DRAINS.
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DEMOLITION NOTES:

1. CONTRACTOR, SUB-CONTRACTORS, AND MATERIAL SUPPLIERS SHALL CONFORM TO ALL APPLICABLE NATIONAL, STATE, REGIONAL, AND LOCAL CODES, ORDINANCES, AND STANDARDS AS ADMINISTRATED BY LOCAL OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES, OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
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4. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING. NEW AND EXISTING FINISHES ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED AND REPAIRED TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AND RELATED WORK BY THOSE DISCIPLINES.
6. ALL MATERIALS REMOVED DURING DEMOLITION AND CONSTRUCTION SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED LANDFILL.
7. OWNER SHALL HAVE RIGHT OF FIRST REFUSAL ON ALL REMOVED ITEMS AND MATERIALS. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
8. CONTRACTOR SHALL CONSTRUCT TEMPORARY 6 MIL TRANSLUCENT, REINFORCED PVC AND WOOD STUD DUST PARTITIONS WITH ACCESS DOOR IN EACH LIVING UNIT TO CONTAIN ALL CONSTRUCTION DEBRIS. PARTITIONS ARE TO BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION AND REMOVED ONLY WHEN THE WORK IN THAT PARTICULAR UNIT IS COMPLETE.
9. CONTRACTOR SHALL REMOVE ANY EXISTING SEALANTS, CAULKING, AND/OR BACKER RODS FROM EXISTING BUILDING CONTROL JOINTS LOCATED UNDER THE STONE VENEER (TO BE REMOVED) AT THE EXISTING FLOOR LINES AND PREPARE THEM FOR NEW MATERIALS.

NOTICE

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DATES & REVISIONS	
OWNER REVIEW	01/10/2007
BUILDING DEPARTMENT	07/23/2007

STATE OF OHIO
EDWARD M. MONACO 6327
REGISTERED ARCHITECT

EAST AND SOUTH ELEVATION DEMOLITION

STARK METROPOLITAN HOUSING AUTHORITY

LINCOLN APTS. REMODELING & SITE RENOVATIONS

815 LINCOLNWAY EAST MASSILLON, OHIO 44646

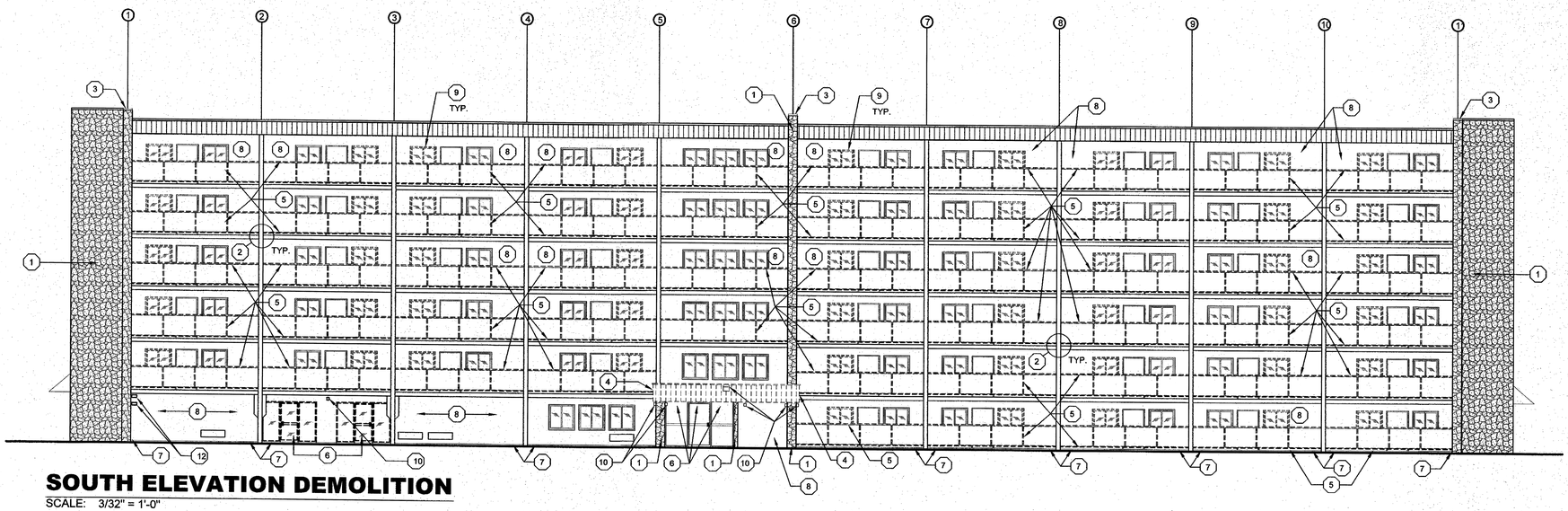
KRRA JOB NO.	K5001-01
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AD. 2.0

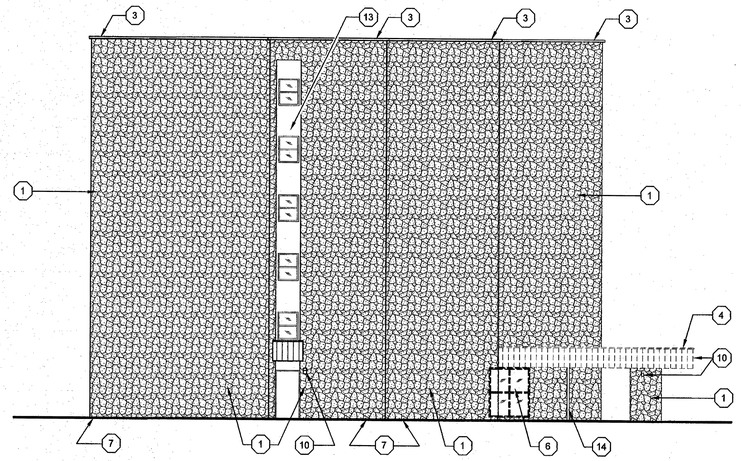
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Akron, Ohio 44321

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FAX: 330-668-2788
KRRA@KARLROHRER.COM



SOUTH ELEVATION DEMOLITION

SCALE: 3/32" = 1'-0"



WEST ELEVATION DEMOLITION

SCALE: 3/32" = 1'-0"

DEMOLITION CODED NOTES:

(THESE CODED NOTES ARE FOR THIS DRAWING ONLY.)

1. REMOVE EXISTING STONE VENEER AND ASSOCIATED GROUT AND MORTAR, COMPLETE, DOWN TO ORIGINAL CONCRETE SUBSTRATE. POWER WASH THE CONCRETE TO REMOVE ANY REMAINING MORTAR OR DEBRIS. PROVIDE PROTECTION FOR ALL EXISTING LANDSCAPING, UTILITIES AND FINISH MATERIALS WHICH ARE TO REMAIN. REMOVE ALL DEBRIS MATERIAL FROM SITE AND DISPOSE OF PROPERLY.
2. REMOVE ANY LOOSE OR DAMAGED CONCRETE MATERIALS ENCOUNTERED AT FACE OF PIERS AND BALCONY PLANK BEARING. DISPOSE OF DEBRIS MATERIALS PROPERLY. REMOVE MATERIALS WHICH WILL NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF SUCH AREAS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION PRIOR TO CONTINUING WORK. FINAL DETERMINATION OF HOW THE WORK IS TO PROCEED WILL BE AT THE DISCRETION OF THE ARCHITECT AND HIS CONSULTING STRUCTURAL ENGINEER. CONTRACTOR SHALL PROVIDE SOUND TESTS FOR DAMAGED AREAS DETERMINED TO BE OF GREATEST STRUCTURAL INTEGRITY CONCERN, TO THE ARCHITECT FOR HIS REVIEW AND EVALUATION.
3. REMOVE PORTIONS OF EXISTING ALUMINUM CAP FLASHING, PORTIONS OF EXISTING ROOFING MEMBRANE, INSULATION, BALLAST, AND OTHER ROOFING MATERIALS AS REQUIRED TO INSTALL NEW C.M.U. VENEER AT BUILDING END WALLS. PREP SURFACES FOR INSTALLATION OF NEW MATERIALS ASSOCIATED WITH NEW C.M.U. VENEER, EXTERIOR FINISH MATERIALS, OR TIE-INS TO EXISTING MATERIALS THAT REMAIN TO CONFORM WITH REQUIREMENTS OF THE OWNER'S ROOFING WARRANTIES. BUILDING IS TO REMAIN WATERTIGHT THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER PROTECTION AS REQUIRED.
4. REMOVE PORTIONS OF EXISTING ENTRY CANOPY FASCIA AND SOFFIT MATERIALS DOWN TO WOOD SUBSTRATE AND PREPARE FOR NEW ILLUMINATED CANOPY STRUCTURE.
5. REMOVE EXISTING BALCONY RAILINGS - COMPLETE. PROVIDE TEMPORARY RAILING PROTECTION UNTIL SUCH TIME AS NEW RAILINGS ARE INSTALLED. FILL ALL HOLES WITH NON-SHRINK GROUT.
6. REMOVE EXISTING ALUMINUM STOREFRONT WINDOW AND DOOR SYSTEM. PREP OPENING FOR INSTALLATION OF NEW WALL IN-FILL MATERIALS AND NEW ALUMINUM STOREFRONT SYSTEM.
7. REMOVE PORTIONS OF EXISTING CONCRETE SLABS AS REQUIRED TO INSTALL NEW C.M.U. VENEER PIERS AND ASSOCIATED FOUNDATIONS. ALL SLABS TO BE REMOVED SHALL FIRST BE SAWCUT TO SEPARATE THEM FROM MATERIALS AND FINISHES TO REMAIN AND ALLOW FOR A SMOOTH TRANSITION WITH NEW FINISH MATERIALS.
8. EXISTING VINYL SIDING TO BE REMOVED FROM FACE OF UNITS. REPLACE OR REPAIR ANY DAMAGED EXISTING SHEATHING WITH SIMILAR MATERIALS. FILL ANY HOLES WITH APPROPRIATE GROUT AND PREPARE SURFACE FOR NEW FINISH MATERIALS.
9. REMOVE ALL EXISTING WINDOW UNITS AND PORTIONS OF EXISTING EXTERIOR WALLS AS REQUIRED FOR NEW PTAC UNIT INSTALLATION. PREPARE WINDOW FOR RE-INSTALLATION. REFER TO DEMO PLANS FOR LOCATIONS.
10. EXISTING LIGHT FIXTURE TO BE REMOVED AND/OR REPLACED. REFER TO ELECTRICAL DRAWINGS.
11. REMOVE PORTIONS OF EXISTING STEEL ANGLE BRACING AT UNDERSIDE OF BALCONIES AT BUILDING WALL TO ALLOW FOR CORE DRILLING OF CONCRETE PLANK FOR NEW PTAC CONDENSATE DRAINS.
12. EXISTING KITCHEN EXHAUST VENTS TO BE RELOCATED TO ACCOMMODATE NEW C.M.U. PIER. PATCH EXISTING HOLES WITH SIMILAR ADJACENT MATERIALS.
13. EXISTING VINYL SIDING BETWEEN WINDOWS OF STAIRWELLS TO BE REMOVED. REPLACE OR REPAIR ANY DAMAGED EXISTING SHEATHING WITH SIMILAR MATERIALS. FILL ANY HOLES WITH APPROPRIATE GROUT AND PREPARE SURFACE FOR NEW FINISH MATERIALS.
14. EXISTING DOWNSPOUT TO REMAIN. CAREFULLY REMOVE DURING REMOVAL OF EXISTING FASCIA MATERIALS AND PREPARE FOR RE-INSTALLATION. CANOPY CONTRACTOR TO INCORPORATE DOWNSPOUT AND COLLECTION BOX INTO NEW CANOPY SOFFIT DESIGN.

DEMOLITION NOTES:

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STATE OF OHIO
EDWARD M. MONACO 6327
REGISTERED ARCHITECT

WEST AND NORTH ELEVATION DEMOLITION

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST MASSILLON, OHIO 44646

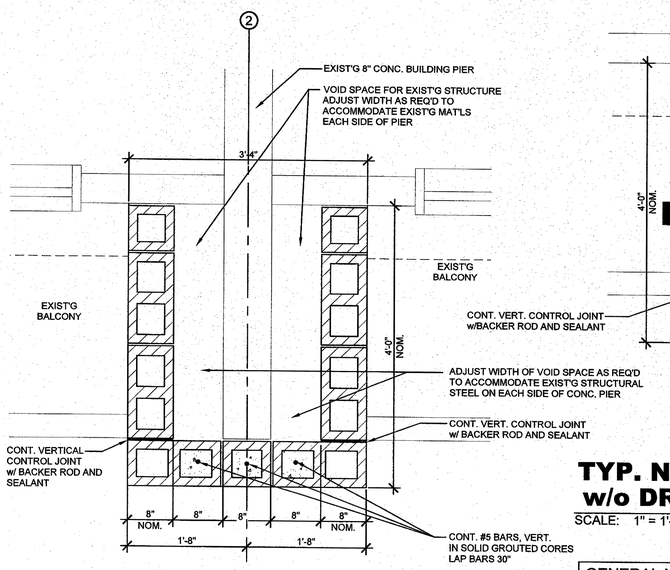
KRRA JOB NO.	K5001-01
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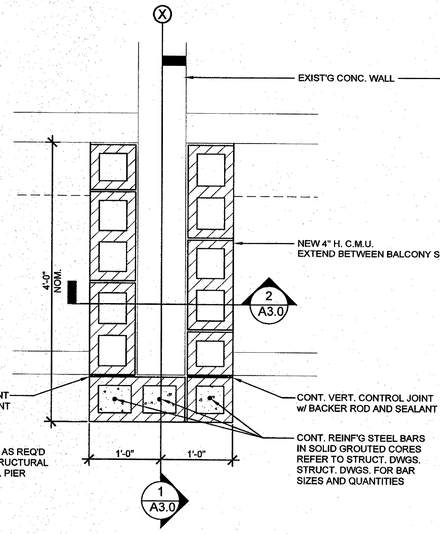
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FAX: 330-668-2788
KRRA@KARLROHRER.COM



NEW C.M.U. PIER DETAIL AT G.L. 2 - TYP. 1st & 2ND FLOORS

SCALE: 1" = 1'-0"

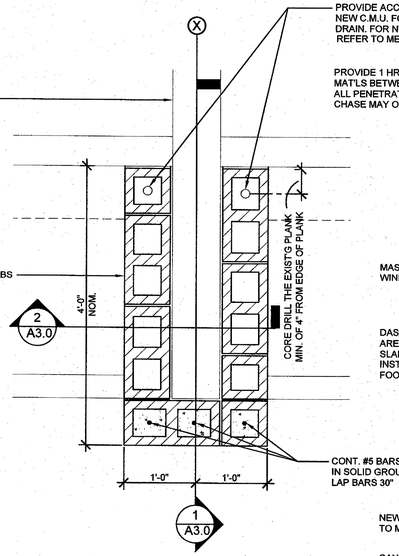
5 / A1.0



TYP. NEW C.M.U. PIER w/o DRAINAGE CHASES

SCALE: 1" = 1'-0"

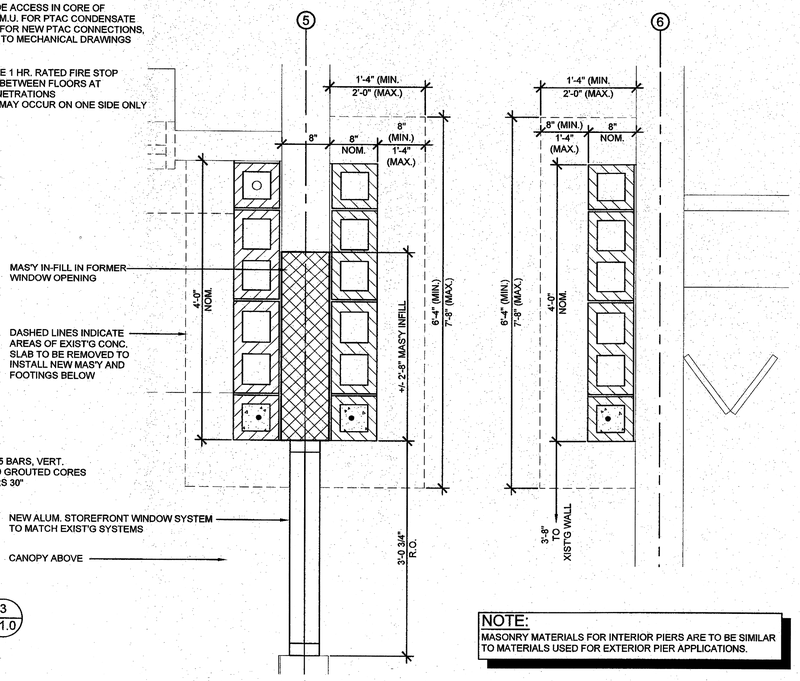
4 / A1.0



TYP. NEW C.M.U. PIER w/DRAINAGE CHASES

SCALE: 1" = 1'-0"

3 / A1.0



NEW C.M.U. PIERS IN MAIN LOBBY

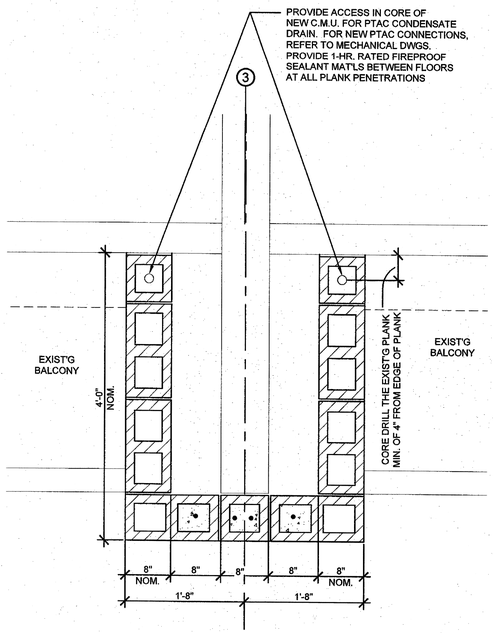
SCALE: 1" = 1'-0"

2 / A1.0

NOTE:
MASONRY MATERIALS FOR INTERIOR PIERS ARE TO BE SIMILAR TO MATERIALS USED FOR EXTERIOR PIER APPLICATIONS.

GENERAL NOTES:

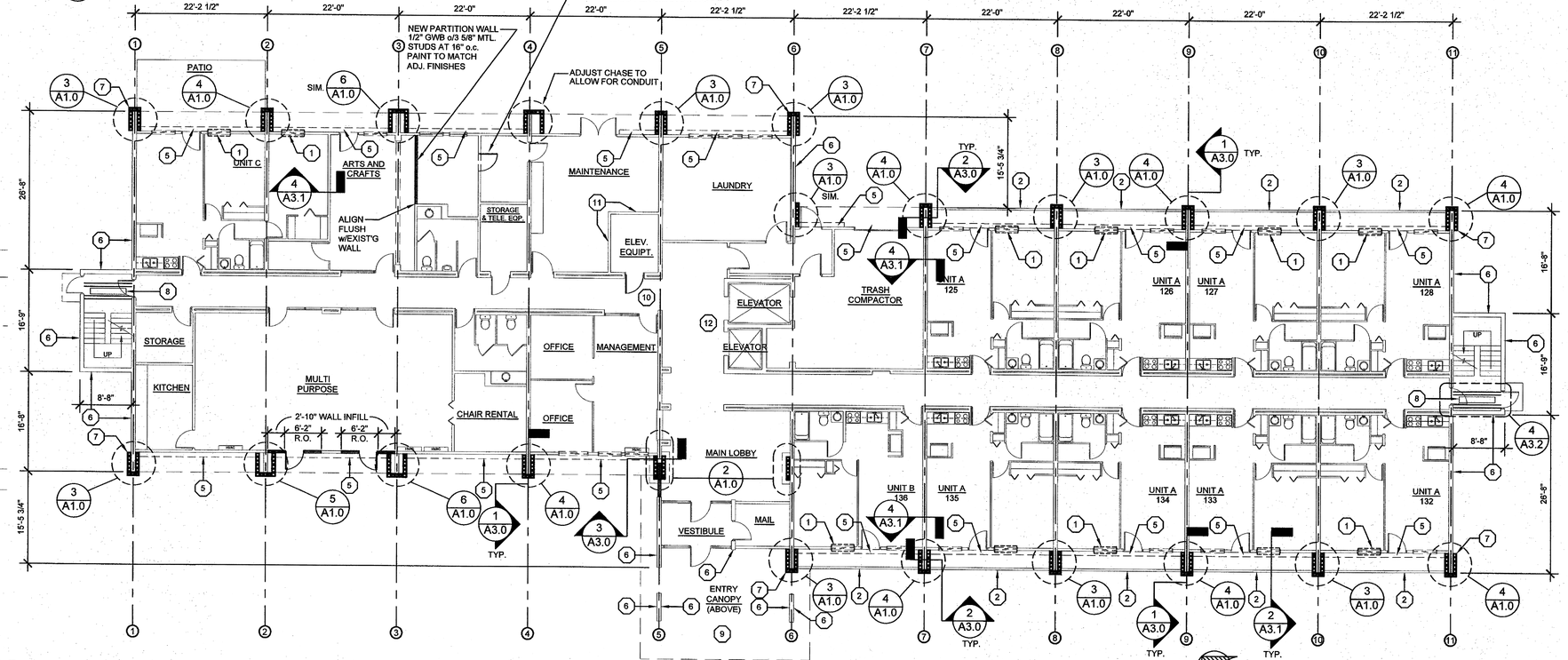
1. REFER TO DWG. A1.1 FOR GENERAL NOTES THAT APPLY TO THE WORK SHOWN ON THIS DRAWING.
2. REFER TO DWG. A1.1 FOR CODED NOTES THAT APPLY TO THE WORK SHOWN ON THIS DRAWING.



NEW C.M.U. PIER DETAIL AT G.L. 3 - TYP. 1st & 2nd FLOORS

SCALE: 1" = 1'-0"

6 / A1.0



NOTE:
ALL LISTED DIMENSIONS ARE ± FIELD VERIFY FOR THIS EXISTING BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND BIDDER TO **FIELD VERIFY ALL DIMENSIONS.**

NORTH

1st FLOOR PLAN

SCALE: 3/32" = 1'-0"

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STATE OF OHIO
EDWARD M. MONACO 6327
REGISTERED ARCHITECT

REVISED FIRST FLOOR PLAN AND C.M.U. PIER DETAILS

STARK METROPOLITAN HOUSING AUTHORITY

LINCOLN APTS. REMODELING & SITE RENOVATIONS

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MASSILLON, OHIO 44646

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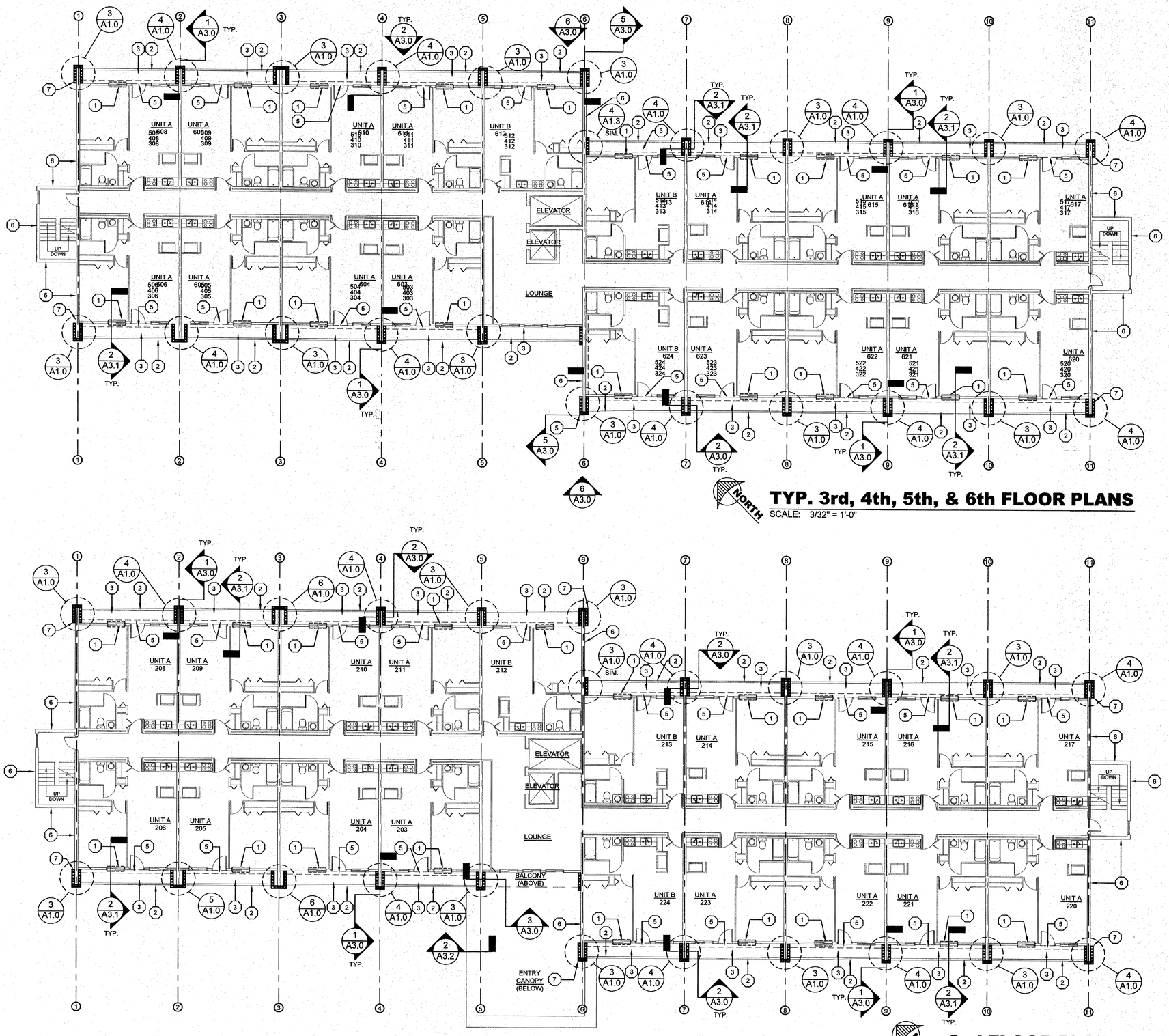
A. 1.0

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KARL R. ROHRER ASSOCIATES INC.

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NORTH

TYP. 3rd, 4th, 5th, & 6th FLOOR PLANS

SCALE: 3/32" = 1'-0"

NORTH

2nd FLOOR PLAN

SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR, SUB-CONTRACTORS, AND MATERIAL SUPPLIERS SHALL CONFORM TO ALL APPLICABLE NATIONAL, STATE REGIONAL, AND LOCAL CODES, ORDINANCES, AND STANDARDS AS ADMINISTERED BY AUTHORIZED OFFICIALS HAVING JURISDICTION.

2. CONTRACTORS AND SUB-CONTRACTORS SHALL PROVIDE ALL MATERIALS, LABOR, TOOLS, INCIDENTALS, AND EQUIPMENT AS NECESSARY AND REQUIRED TO PERFORM THE WORK.

3. ANY WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL EXPENSE TO THE OWNER, ARCHITECT OR CONSULTANTS.

4. VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE FOR COMPARISON WITH DRAWINGS AND SPECIFICATIONS PRIOR TO START OF AND DURING CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES, OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

5. THE GENERAL CONTRACTOR WILL COORDINATE ALL THE WORK. SUB-CONTRACTORS ARE RESPONSIBLE FOR CHECKING THEIR WORK FOR INTERFERENCES AND CONFLICTS PRIOR TO THE START OF CONSTRUCTION.

6. STAGING AND MATERIAL STORAGE AREAS SHALL BE ESTABLISHED ADJACENT TO THE AREA OF WORK AS DIRECTED AND COORDINATED BY OWNER's REPRESENTATIVE.

7. NECESSARY CONNECTIONS TO EXISTING UTILITIES FOR TEMPORARY POWER AND WATER SUPPLIES SHALL BE COORDINATED WITH THE OWNER's REPRESENTATIVE PRIOR TO CONNECTION.

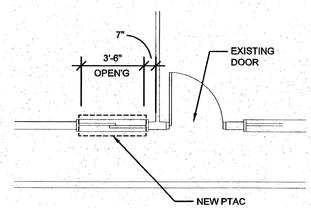
8. TEMPORARY DUST PARTITIONS SHALL BE ERECTED AND MAINTAINED THROUGHOUT THE PROJECT.

9. THE CONTRACTOR SHALL PROTECT ALL EXISTING AND NEW FINISH WORK AND SURFACES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION AND SHALL REPLACE AND/OR REPAIR ALL DAMAGED SURFACES CAUSED BY CONTRACTOR OR SUB-CONTRACTOR PERSONNEL TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

CODED NOTES:

1. NEW PTAC UNIT - WORK TO INCLUDE, BUT NOT LIMITED TO:
   - NEW METAL STUD FRAMING AS REQ'D
   - NEW WOOD BLOCKING AS REQ'D FOR WINDOW TREATMENT
   - INSTALLATION OF NEW GYPSUM BOARD (TO PATCH INTERIOR WALL SURFACES TO MEET FLUSH WITH ADJACENT WALL FINISHES)
   - PAINTING OF ENTIRE UNIT BEDROOM WALL - CORNER TO CORNER, FLOOR TO CEILING ONE (1) COAT OF LATEX PRIMER AND TWO (2) COATS OF INTERIOR LATEX PAINT (EGG-SHELL FINISH)
   - MOISTURE BARRIER
   - 3 1/2" BATT INSULATION (R-11) - IN ALL VOIDS AND STUD SPACES
   - RE-INSTALLATION OF WINDOW TREATMENT (DRAPERIES, BLINDS, ETC.)
   - EXTERIOR SHEATHING - TO MATCH EXISTING
   - ONE (1) LAYER No. 15 BUILDING FELT
   - INSTALLATION OF NEW STUCCO FINISH SYSTEM
   - RE-INSTALLATION OF EXISTING WINDOW UNITS
2. NEW BALCONY RAILING - REFER TO TYP. BALCONY ELEVATION 1/A3.1.
3. PROVIDE ELASTOMERIC WATERPROOFING SYSTEM ON EXISTING BALCONY CONCRETE SURFACES
4. NOT USED.
5. NEW PTAC CONDENSATE SOFFIT - REFER TO SECTION 2/A3.1.
6. SPRAY-ON WATERPROOFING/PLASTER FINISH SYSTEM
7. PROVIDE RETURN CORNER BLOCKS FOR BOTH SPLIT AND SMOOTH-FACE COURSING AT ALL OUTSIDE CORNERS, TYP.
8. PROVIDE 1'0" W x6'-0" L PIPE ACCESS IN STAIRWELL FLOORS. REFER TO DETAIL 5/A3.2
9. PROVIDE NEW STUCCO FINISH TO UNDERSIDE OF ENTRY CANOPY (EXTERIOR PORTIONS ONLY).
10. PROVIDE NEW 45 MINUTE FIRE-RATED WOOD-VENEERED (TO MATCH EXISTING) DOOR w/RATED CLOSER, 1-1/2 PAIR BUTT HINGES, AND LEVER-HANDLED STORE ROOM FUNCTION LOCKSET.
11. PATCH ANY OPENINGS RESULTING FROM REMOVED VENTILATION GRILLES w/SIM. ADJACENT WALL MATERIALS FLUSH. PAINT WALL FROM CORNER TO CORNER AND FROM FLOOR TO CEILING w/1 COAT OF WHITE PRIMER AND 2-COATS OF FINISH COLOR PER SPECIFICATIONS.
12. REFER TO DWG. EL1.0 AND THE SPECIFICATIONS FOR ELEVATOR-RELATED WORK.

NOTE:
ALL LISTED DIMENSIONS ARE ± FIELD VERIFY FOR THIS EXISTING BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND BIDDER TO **FIELD VERIFY ALL DIMENSIONS.**



TYP. PTAC DETAIL

SCALE: 1/4" = 1'-0"

1 A1.1

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STATE OF OHIO
EDWARD M. MONACO 6327
REGISTERED ARCHITECT

REVISED 2nd THRU 6th FLOOR PLANS

STARK METROPOLITAN HOUSING AUTHORITY

LINCOLN APTS. REMODELING & SITE RENOVATIONS

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DRAWN BY	RDG
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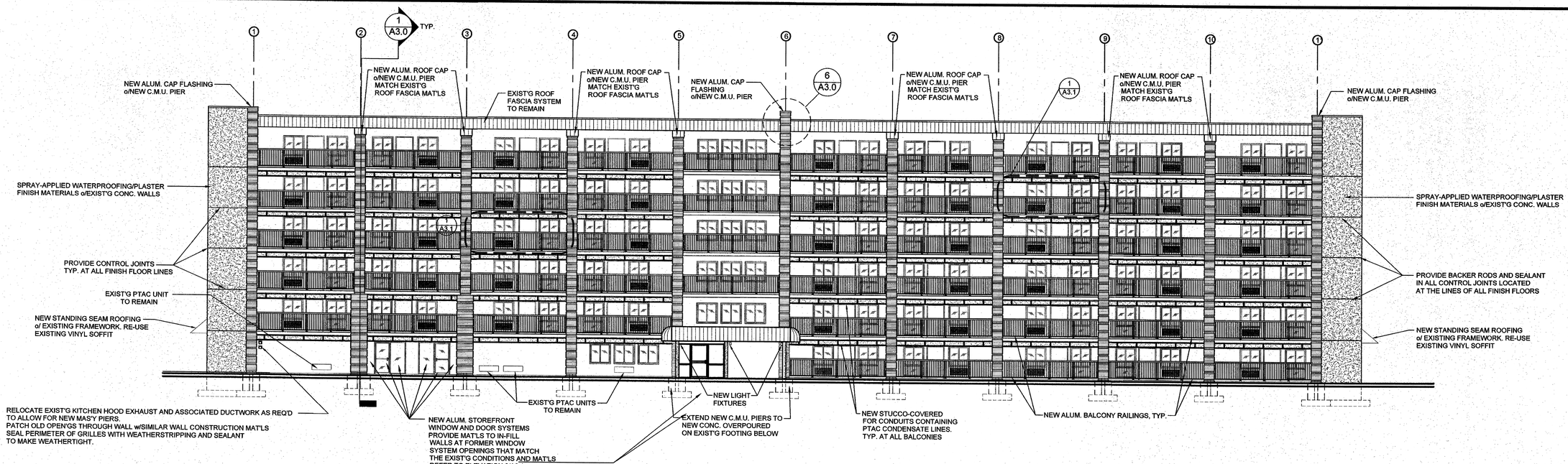
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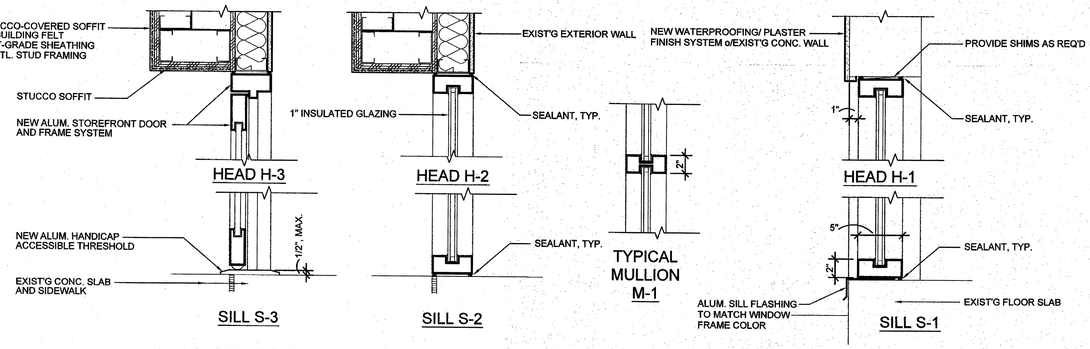
OFFICES:
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KRRA@KARLROHRER.COM



SOUTH ELEVATION

SCALE: 3/32" = 1'-0"



NEW ALUMINUM STOREFRONT SECTIONS AND DETAILS

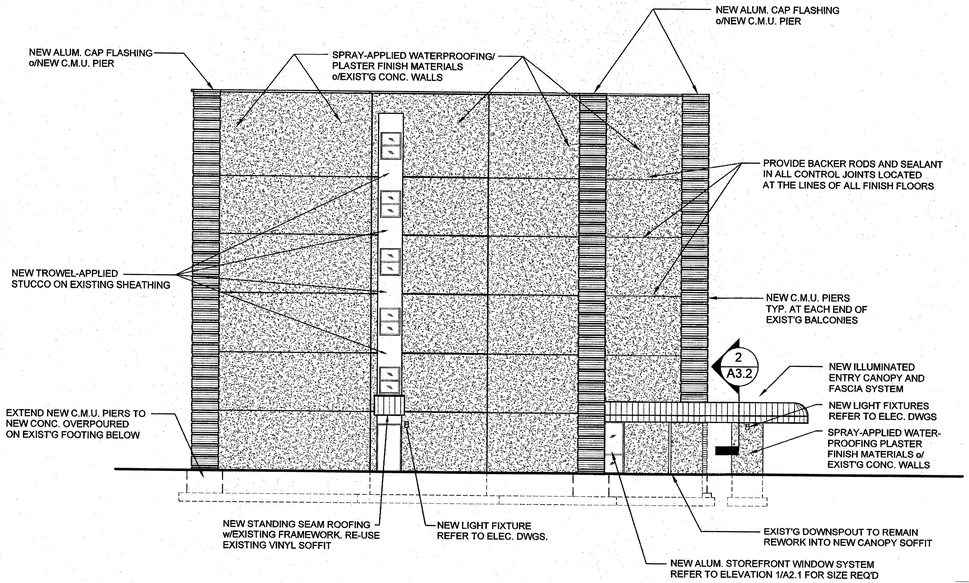
SCALE: 1 1/2" = 1'-0"

B A2.1

NEW ALUMINUM STOREFRONT SECTIONS AND DETAILS

SCALE: 1 1/2" = 1'-0"

A A2.1

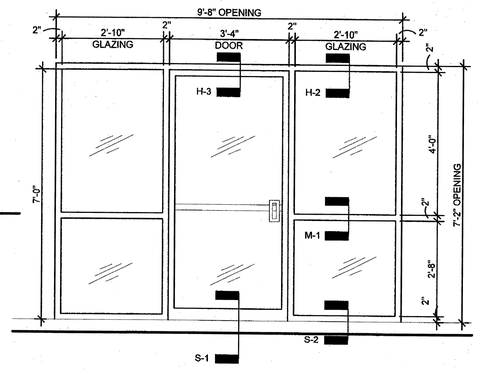


WEST ELEVATION

SCALE: 3/32" = 1'-0"

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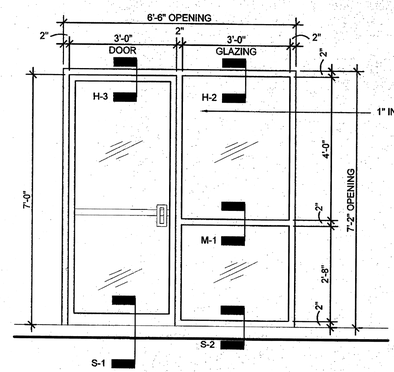
GENERAL NOTES:
TWO (2) NEW ENTRY SYSTEMS ARE REQ'D. THE SYSTEMS ARE MIRROR IMAGES OF ONE ANOTHER. THE SYSTEM SHOWN IS THE LH DOOR SWING UNIT.



NEW MAIN ENTRY DOOR AND SIDELITES ELEVATION

SCALE: 1/2" = 1'-0"

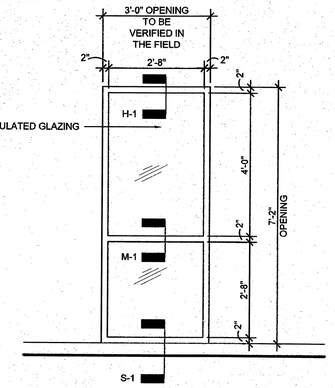
3 A2.1



NEW ALUM. STOREFRONT ENTRY ELEVATION

SCALE: 1/2" = 1'-0"

2 A2.1



NEW ALUM. STOREFRONT WINDOW ELEVATION

SCALE: 1/2" = 1'-0"

1 A2.1

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STATE OF OHIO
EDWARD M. MONACO 6327
REGISTERED ARCHITECT

NORTH AND WEST REVISED ELEVATIONS

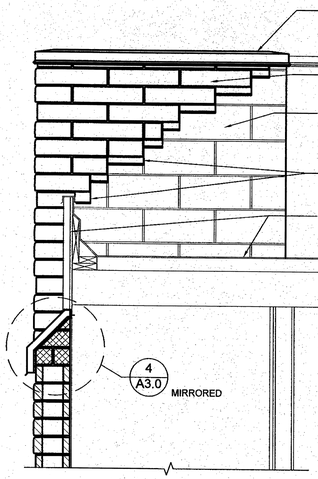
STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST
MASSILLON, OHIO 44646

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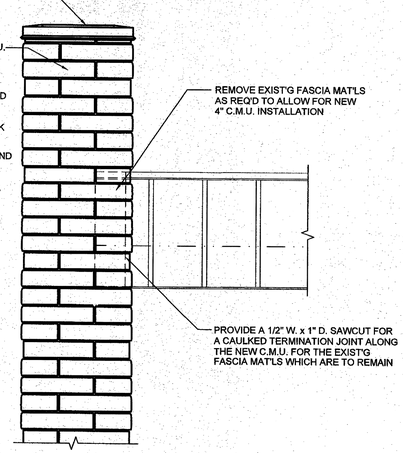
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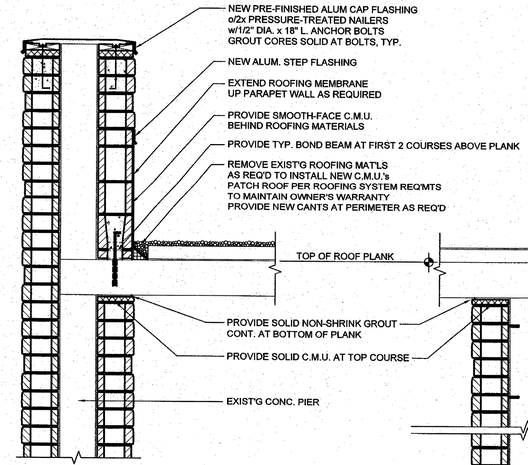
PARTITION SECT. / ELEV. AT G.L. 6 PIER

SCALE: 3/4" = 1'-0" (7 A3.0)



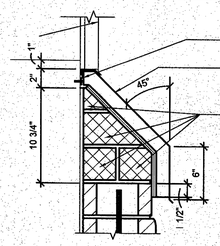
ELEVATION DETAIL AT G.L. 6 PIER

SCALE: 3/4" = 1'-0" (6 A3.0)



PARTIAL ROOF SECTION AT G.L. 6 PIER

SCALE: 3/4" = 1'-0" (5 A3.0)



DETAIL AT PIER CAP

SCALE: 1 1/2" = 1'-0" (4 A3.0)

MASONRY JOINT NOTES:

1. TO MAINTAIN SIMILAR COURSING OF THE NEW C.M.U. MATERIALS FOR ALL FLOORS, THE CONTRACTOR SHALL DEVELOP A STORY STICK OF THE TYPICAL JOINT SPACING FOR USE IN ESTABLISHING THE COURSING ON EACH FLOOR.

2. HEAD JOINTS OF ALL SMOOTH-FACE 4" C.M.U. ARE TO BE A MAX. OF 1/2" IN LIEU OF THE TYP. 3/8" JOINT WIDTH.

3. BED JOINTS OF ALL NEW C.M.U. MATERIALS AT THE FIRST COURSE OF EACH FLOOR ARE TO BE A MAX. OF 1/2" IN LIEU OF THE TYP. 3/8" JOINT WIDTH.

GENERAL NOTES:

1. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR FOR THEIR OWN CUTTING AND PATCHING. DO NOT DAMAGE THE WORK OF OTHER CONTRACTORS AND SUB-CONTRACTORS.

2. EACH SUB-CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AS THEY PERTAIN TO THE ACCEPTABLE COMPLETION OF THEIR WORK.

3. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT THE OWNER'S PERSONNEL, OTHER TENANTS, AND THE GENERAL PUBLIC FROM INJURY DUE TO THE WORK OF THIS PROJECT.

4. THE CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING FINISH WORK AND SURFACES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION AND SHALL REPLACE AND/OR REPAIR ALL DAMAGED SURFACES CAUSED BY CONTRACTOR OR SUB-CONTRACTOR PERSONNEL TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

5. DO NOT STORE OR STACK NEW MASONRY UNITS ON THE EXIST'G BALCONIES. MATERIAL STORAGE FOR NEW MASONRY WORK IS TO BE STAGED FROM AREAS DESIGNATED BY THE OWNER'S REPRESENTATIVE ON THE GROUND OR ON SCAFFOLDING AS PROVIDED AND MAINTAINED BY THE CONTRACTOR DOING THE WORK.

6. ALL PENETRATIONS THROUGH EXISTING FIRE-RATED PARTITIONS ARE TO BE FIRESTOPPED WITH APPROVED UL-RATED MATERIALS AND ASSEMBLIES AS APPROVED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.

STRUCTURAL NOTES:

1. CONCRETE BLOCK (C.M.U.) SHALL BE STANDARD NORMAL WEIGHT, GRADE N UNITS IN ACCORDANCE WITH ASTM C90.

2. PRISM STRENGTH (f'm) SHALL BE 1500 PSI.

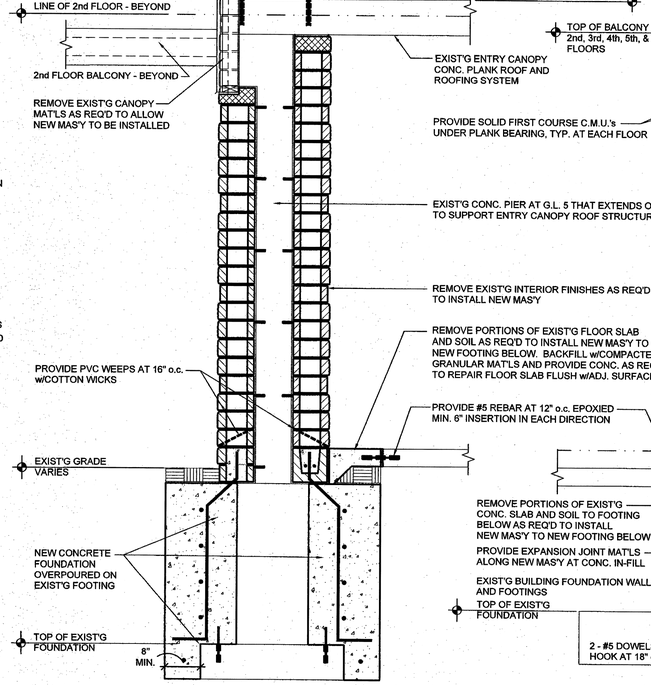
3. MORTAR SHALL BE TYPE M, AND IN ACCORDANCE WITH ASTM C270.

4. GROUT FOR CONCRETE MASONRY BLOCK (C.M.U.) SHALL HAVE A MINIMUM STRENGTH OF 2000 PSI AT 28 DAYS CURE AND SHALL BE IN ACCORDANCE WITH ASTM C476.

5. USE LOW LIFT GROUTING PROCEDURES.

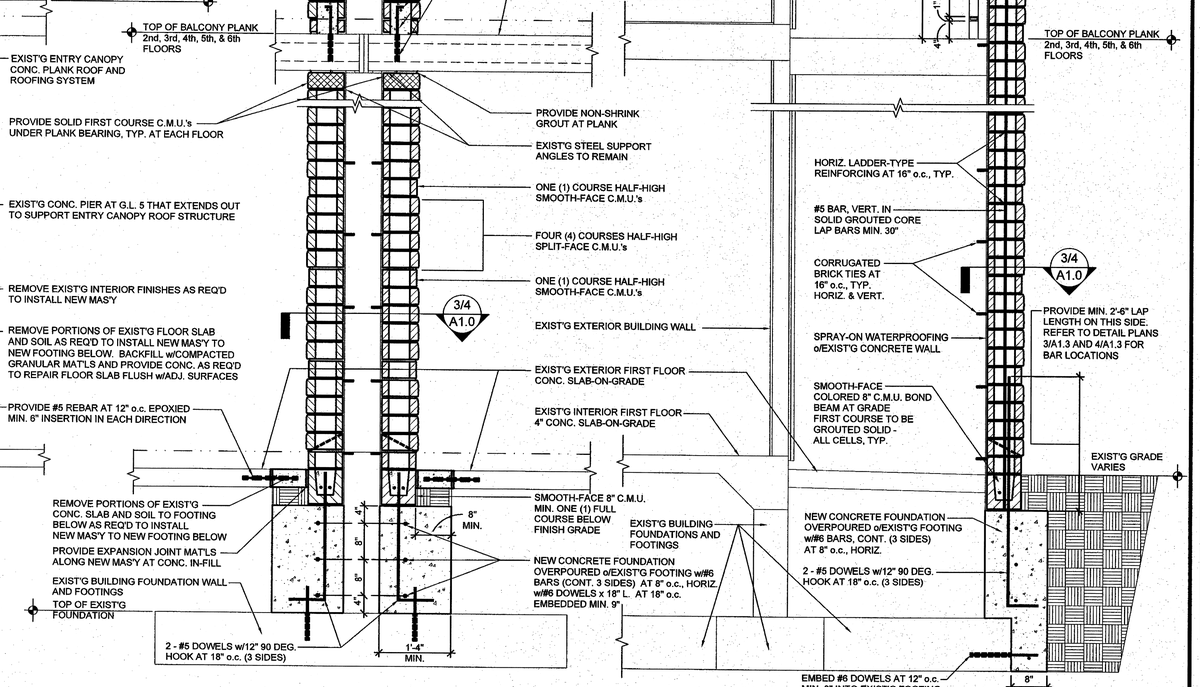
6. BOTTOM COURSES OF ALL NEW CONCRETE BLOCK (C.M.U.) SHALL BE DOWELED INTO THE EXISTING FOUNDATION OR SUPPORTING STRUCTURE. ALL FIRST COURSES SHALL ALSO BE GROUTED SOLID.

NOTE:
ALL LISTED DIMENSIONS ARE ± FIELD VERIFY FOR THIS EXISTING BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND BIDDER TO **FIELD VERIFY ALL DIMENSIONS.**



SECTION thru ENTRY CANOPY

SCALE: 3/4" = 1'-0" (3 A3.0)



SECTION thru BALCONY PIER

SCALE: 3/4" = 1'-0" (2 A3.0)

SECTION AT FACE OF BALCONY

SCALE: 3/4" = 1'-0" (1 A3.0)

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STATE OF OHIO REGISTERED ARCHITECT EDWARD M. MONACO 6327

REVISED WALL SECTIONS AT C.M.U. PIERS

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST MASSILLON, OHIO 44646

KRRA JOB NO.	K5001-01
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FAX: 330-668-2788
KRRA@KARLROHRER.COM

DEMOLITION NOTES:

1. THE SITE WILL REMAIN OCCUPIED DURING THE ENTIRE CONSTRUCTION TIME PERIOD. CONTRACTORS SHALL USE EXTREME CAUTION IN AND AROUND THE RESIDENCE UNITS. ACCESS TO INDIVIDUAL UNITS SHALL BE ARRANGED AND COORDINATED THROUGH THE SMHA STAFF. CONTRACTORS SHALL PROVIDE A DETAILED WRITTEN SCHEDULE OF WORK TO THE SMHA STAFF ONE (1) WEEK PRIOR TO REQUIRING ENTRANCE TO A PARTICULAR UNIT. ANY CONFLICTS WITH THE RESIDENTS ARE TO BE REPORTED TO AND RESOLVED BY THE SMHA STAFF.

2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW AND EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES, OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.

3. THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING COMPONENT IS EITHER EXPEDIENT OR NECESSARY, PRIOR TO PROCEEDING WITH WORK.

4. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING. NEW AND EXISTING FINISHES ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED AND REPAIR TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

5. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION AND RELATED WORK BY THOSE DISCIPLINES.

6. ALL MATERIALS REMOVED DURING DEMOLITION AND CONSTRUCTION SHALL BE DISPOSED OF OFF-SITE IN AN APPROVED LANDFILL.

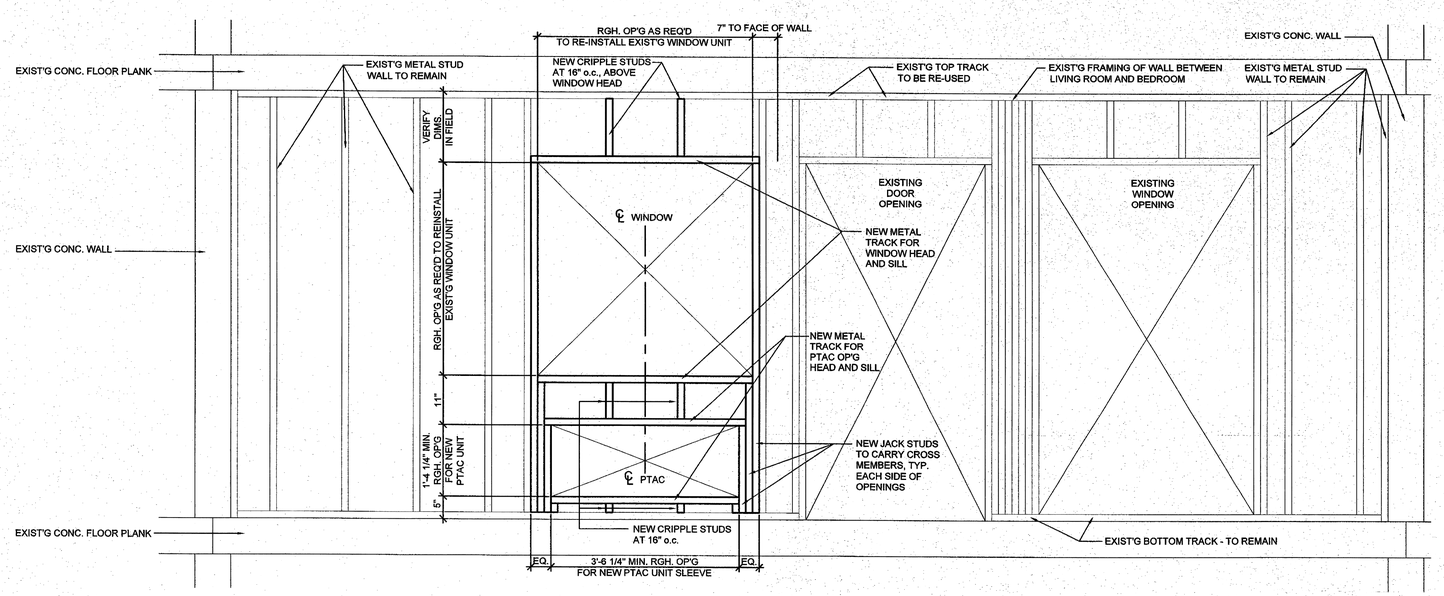
7. OWNER SHALL HAVE RIGHT OF FIRST REFUSAL ON ALL REMOVED ITEMS AND MATERIALS. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT THE OWNER's PERSONNEL, OTHER TENANTS, AND THE GENERAL PUBLIC FROM INJURY DUE TO THE WORK OF THIS PROJECT.

9. CONTRACTOR SHALL CONSTRUCT TEMPORARY 6 MIL TRANSLUCENT, REINFORCED PVC AND WOOD STUD DUST PARTITIONS WITH ACCESS DOOR IN EACH LIVING UNIT TO CONTAIN ALL CONSTRUCTION DEBRIS. PARTITIONS ARE TO BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION AND REMOVED ONLY WHEN THE WORK IN THAT PARTICULAR UNIT IS COMPLETE.

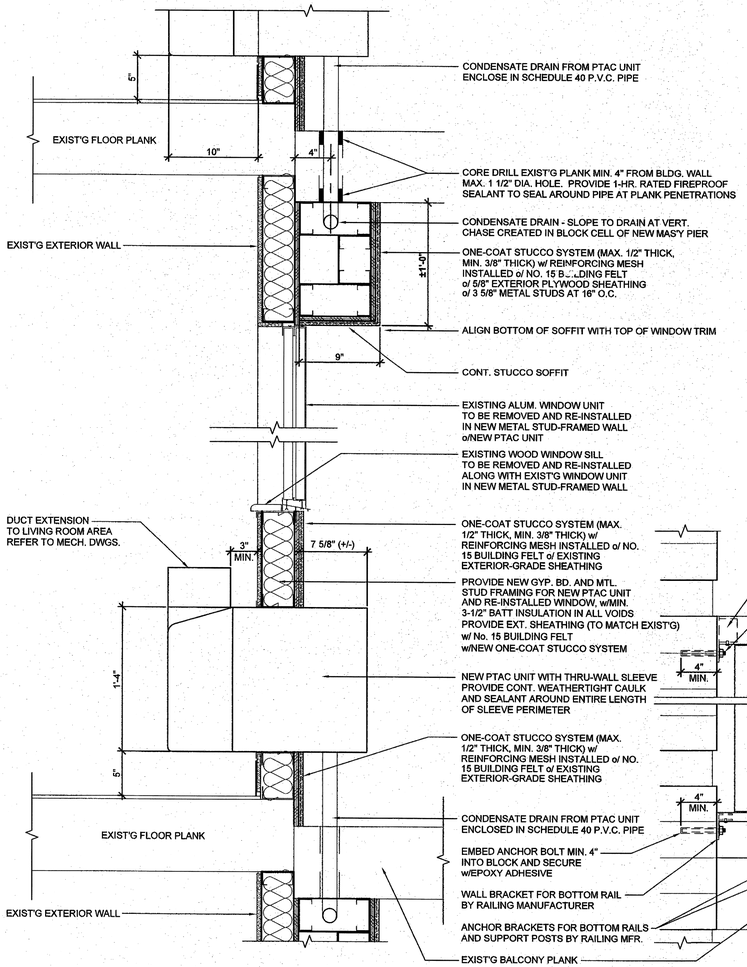
10. DO NOT STORE OR STACK NEW MASONRY UNITS ON THE EXISTING BALCONIES. MATERIAL STORAGE FOR NEW MASONRY WORK IS TO BE STAGED FROM AREAS DESIGNATED BY THE OWNER's REPRESENTATIVE ON THE GROUND OR ON SCAFFOLDING AS PROVIDED AND MAINTAINED BY THE CONTRACTOR DOING THE WORK.

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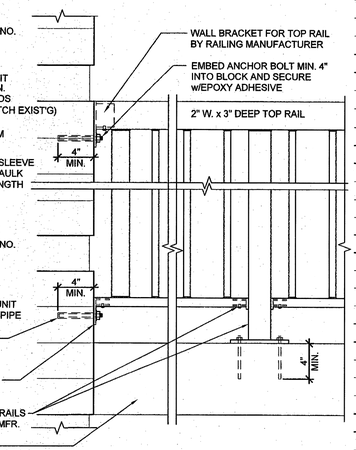
TYP. NEW METAL STUD WALL FRAMING FOR NEW PTAC INSTALLATION

SCALE: 3/4" = 1'-0" (3 / A3.1)



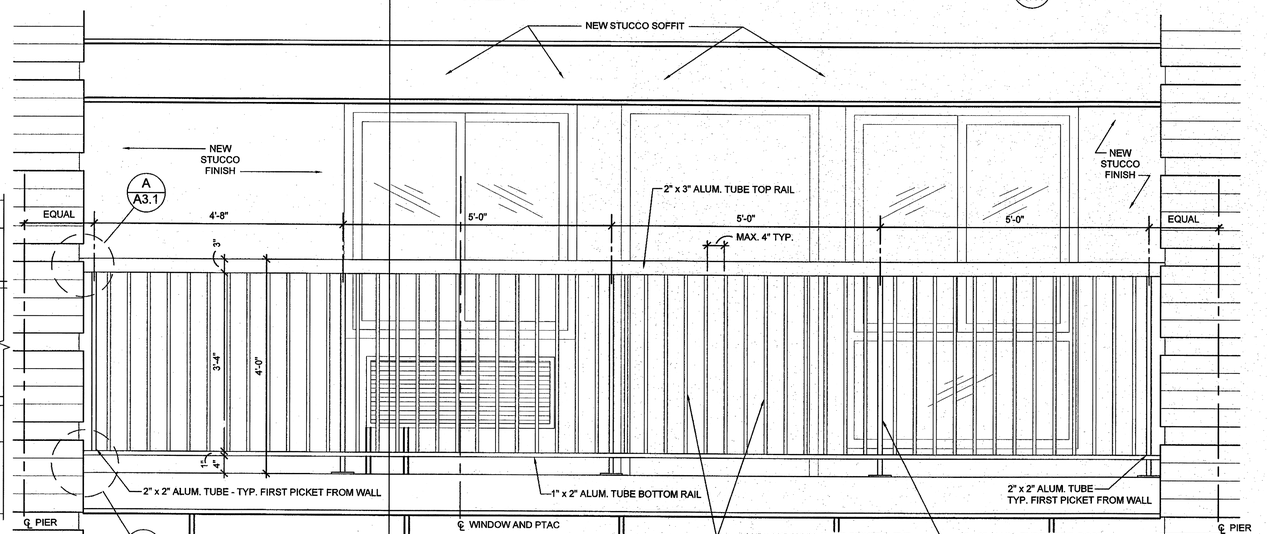
PARTIAL WALL SECTION AT NEW PTAC UNITS

SCALE: 1 1/2" = 1'-0" (2 / A3.1)



RAILING DETAILS

SCALE: 1 1/2" = 1'-0" (A / A3.1)



2 / A3.1

TYP. NEW BALCONY ELEVATION

SCALE: 3/4" = 1'-0" (1 / A3.1)

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STATE OF OHIO REGISTERED ARCHITECT
EDWARD M. MONACO 6327

SECTIONS AND DETAILS

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
MASSILLON, OHIO 44646
815 LINCOLNWAY EAST

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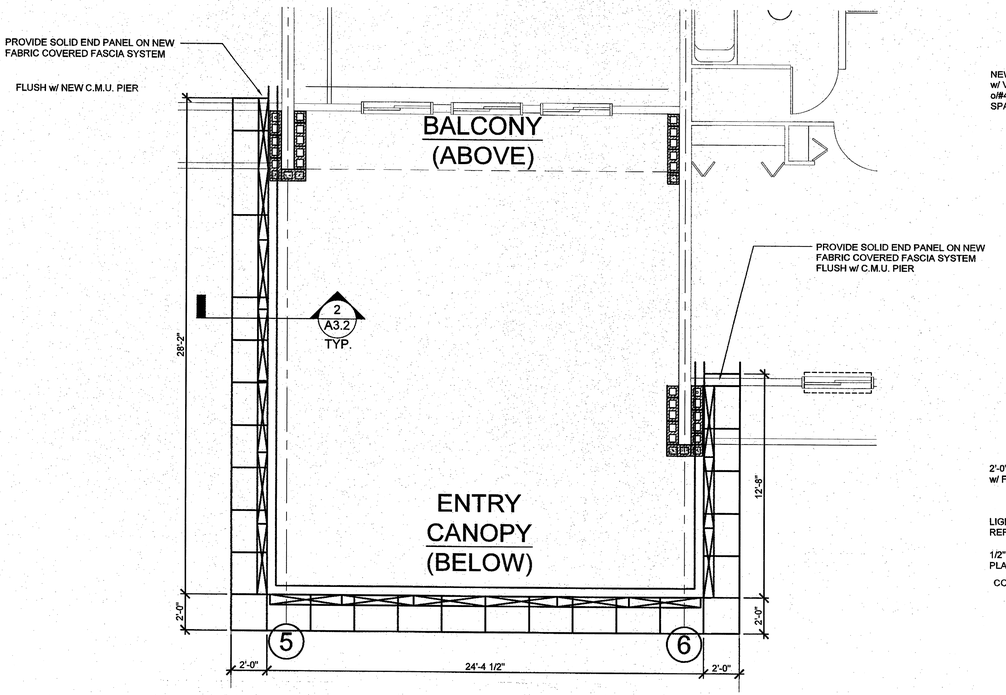
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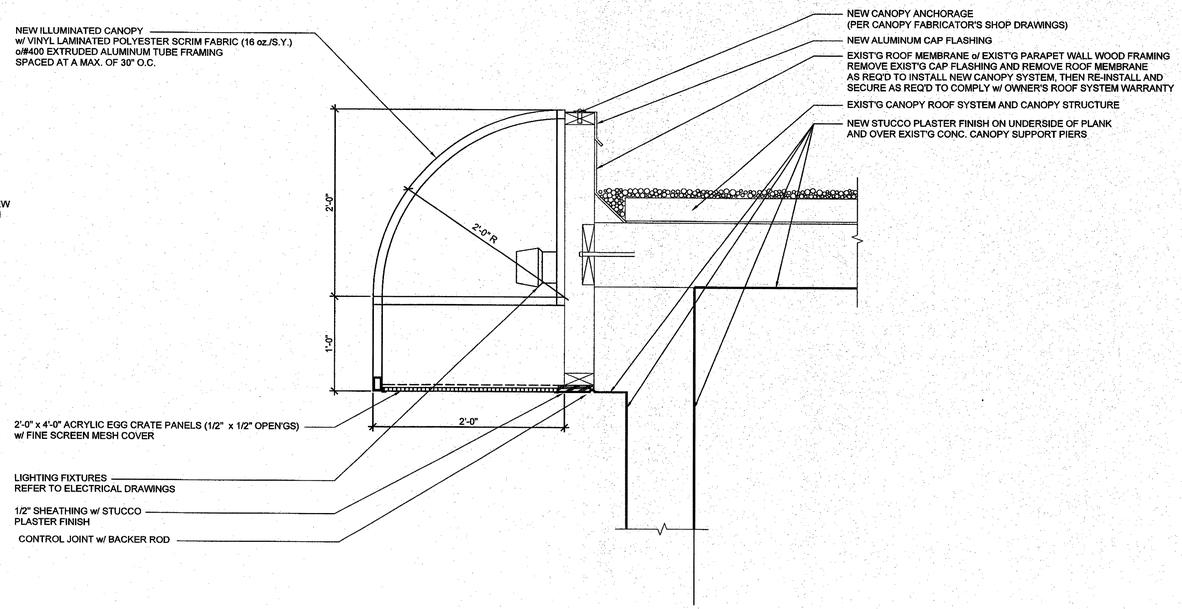
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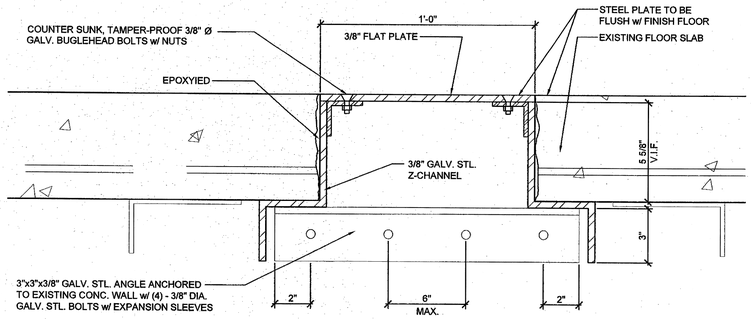
ENTRY CANOPY PLAN

SCALE: 1/4" = 1'-0" (1 A3.2)



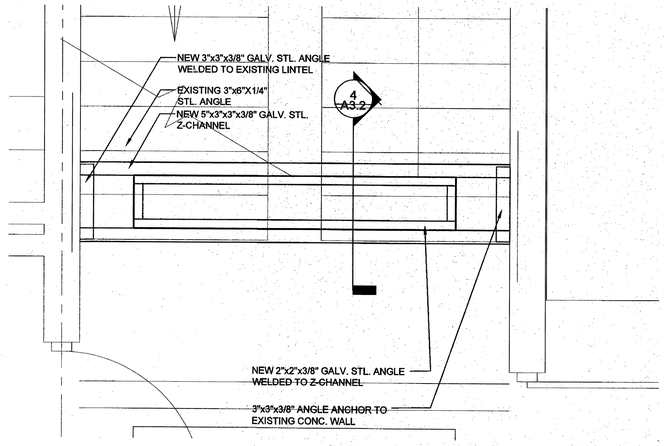
NEW ILLUMINATED CANOPY SECTION

SCALE: 1 1/2" = 1'-0" (2 A3.2)



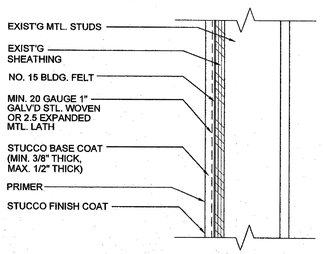
NEW HATCH SECTION

SCALE: 3" = 1'-0" (4 A3.2)



NEW HATCH PLAN

SCALE: 3/4" = 1'-0" (5 A3.2)



STUCCO WALL APPLICATION

SCALE: 3" = 1'-0" (3 A3.2)

NOTE:
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SECTIONS AND DETAILS

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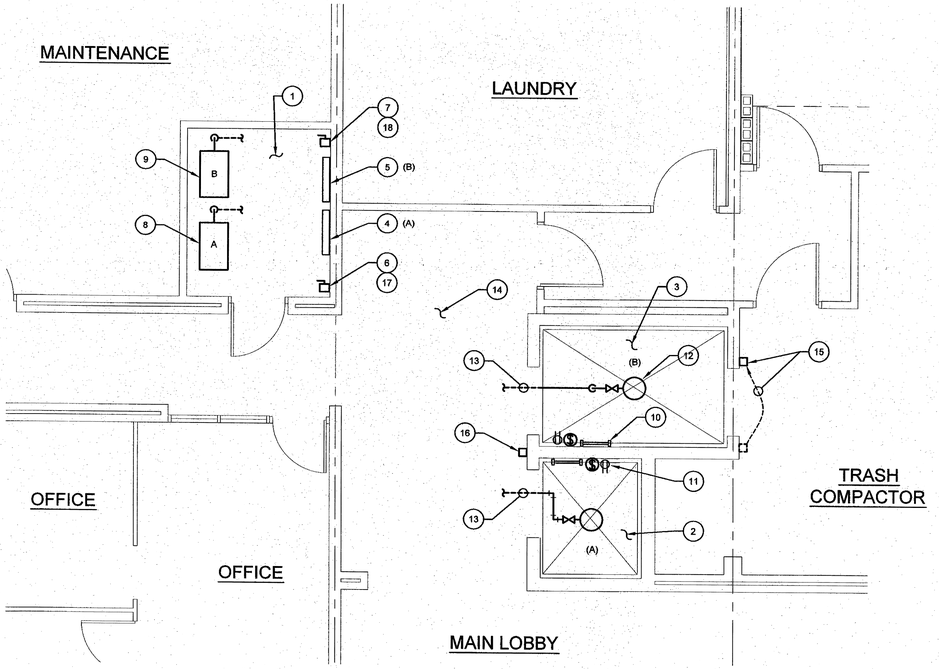
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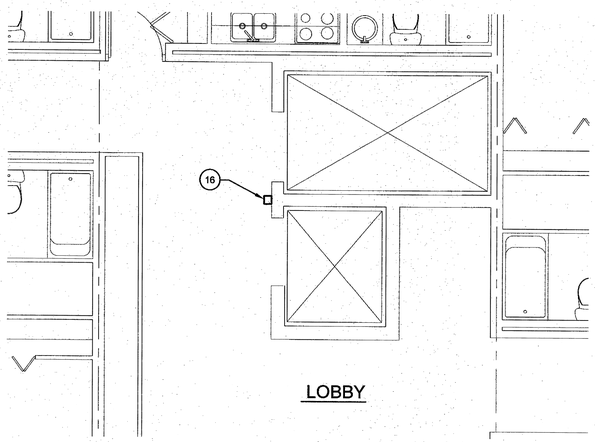
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NORTH

PARTIAL 1st FLOOR PLAN

SCALE: 1/4"=1'-0"



NORTH

PARTIAL 2ND THRU 6TH FLOOR PLAN

SCALE: 1/4"=1'-0"

HYDRO SERVICE PASSENGER ELEVATOR (A) EQUIPMENT SCHDULE

DESCRIPTION	
CAPACITY	2000
SPEED	100
POWER CHARACTERISTIC	208 VOLTS, 3 PHASE, 60 HERTZ
LANDINGS	6
OPENINGS	6 IN LINE, REVERSE AT NONE
BOTTOM FLOOR SERVED	FIRST
TOP FLOOR SERVED	SIXTH
TRAVEL	43 FT. 6 IN.
PLATFORM SIZE	5 FT. 8 IN. WIDE x 4 FT. 3 IN. DEEP (CLEAR INSIDE)
ENTRANCE SIZE	8 FT. 0 IN. HIGH x 3 FT. 6 IN. WIDE
ENTRANCE TYPE	2 SPEED SIDE OPENING
STATE PERMIT NO.	22359

HYDRO SERVICE PASSENGER ELEVATOR (B) EQUIPMENT SCHDULE

DESCRIPTION	
CAPACITY	3000
SPEED	100
POWER CHARACTERISTIC	208 VOLTS, 3 PHASE, 60 HERTZ
LANDINGS	6
OPENINGS	6 IN LINE, REVERSE AT FOLLOWING FLOORS: 1
BOTTOM FLOOR SERVED	FIRST
TOP FLOOR SERVED	SIXTH
TRAVEL	43 FT. 6 IN.
PLATFORM SIZE	5 FT. 0 IN. WIDE x 6 FT. 0 IN. DEEP (CLEAR INSIDE)
ENTRANCE SIZE	8 FT. 0 IN. HIGH x 3 FT. 6 IN. WIDE
ENTRANCE TYPE	2 SPEED SIDE OPENING
STATE PERMIT NO.	22358

○ ELEVATOR CODED NOTES: ○

1. EXISTING ELEVATOR MACHINE ROOM. SEE OTHER DRAWINGS FOR ADDITIONAL WORK BEING DONE BY OTHER CONTRACTOR.
2. HYDRAULIC PASSENGER ELEVATOR (A) 2000 LBS.
3. HYDRAULIC SERVICE PASSENGER ELEVATOR (B) 3000 LBS.
4. NEW WALL CONTROLLER FOR ELEVATOR (A).
5. NEW WALL CONTROLLER FOR ELEVATOR (B).
6. NEW ELEVATOR DISCONNECT SWITCH FOR MAIN POWER BY ELECTRICAL CONTRACTOR. FOR ELEVATOR (A).
7. NEW ELEVATOR DISCONNECT SWITCH FOR MAIN POWER BY ELECTRICAL CONTRACTOR. FOR ELEVATOR (B).
8. NEW POWER (PUMP) UNIT FOR ELEVATOR (A).
9. NEW POWER (PUMP) UNIT FOR ELEVATOR (B).
10. NEW ELEVATOR PIT LADDER (TYP.).
11. NEW ELEVATOR PIT LIGHT SWITCH AND GFI RECEPTACLE BY ELECTRICAL CONTRACTOR (TYP.).
12. NEW ELEVATOR HYDRAULIC PISTON (TYP.).
13. EXISTING HYDRAULIC PIPING BETWEEN PISTON AND POWER UNIT BELOW FLOOR SLAB (TYP.).
14. EXISTING LAY-IN CEILING IN CORRIDOR.
15. RELOCATE NEW ELEVATOR ADA CALL BUTTON.
16. NEW ELEVATOR ADA CALL BUTTON AND HALL INDICATOR PANEL AT EACH LANDING (TYP.).
17. NEW DISCONNECT SWITCH FOR ELEVATOR (A) CAB LIGHTING BY ELECTRICAL CONTRACTOR.
18. NEW DISCONNECT SWITCH FOR ELEVATOR (B) CAB LIGHTING BY ELECTRICAL CONTRACTOR.

GENERAL ELEVATOR NOTES:

1). SEE ELECTRICAL (E-SERIES), PLUMBING (P-SERIES) AND HVAC (H-SERIES) FOR ADDTIONAL EQUIPMENT IN MACHINE ROOM AND ELEVATOR SHAFT. ALSO SEE OTHER DRAWINGS FOR ALL WORK BEING DONE BY OTHER CONTRACTORS OR TRADES.

2). THE EXISTING ELEVATORS SHALL BE MODERNIZED AS SHOWN ON DRAWINGS AND LISTED IN SPECIFICATIONS.

THE INTEND OF THESE DRAWINGS AND SPECIFICATIONS IS TO COMPLETELY MODERNIZE THE EXISTING ELEVATORS. THE WORK SHALL ALSO INCLUDE ALL REQUIREMENTS LISTED IN ADA, OHIO ELEVATOR, STATE OF OHIO, OBC, CITY AND COUNTY BUILDING CODES.

3). CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATION IN FIELD BEFORE CONSTRUCTION.

4). THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, REMOVAL & RE-INSTALLATION OF WALL, FLOORS, ETC. & NEW MATERIALS FOR THE INSTALLATION OF THEIR RESPECTIVE WORK AS SHOWN ON DRAWINGS AND LISTED IN SPECIFICATIONS FOR AREAS OTHERWISE NOT INVOLVING PLUMBING, HVAC AND ELECTRICAL CONTRACTORS.

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STATE OF OHIO — DONALD D. CHURCH E-48062 — REGISTERED PROFESSIONAL ENGINEER

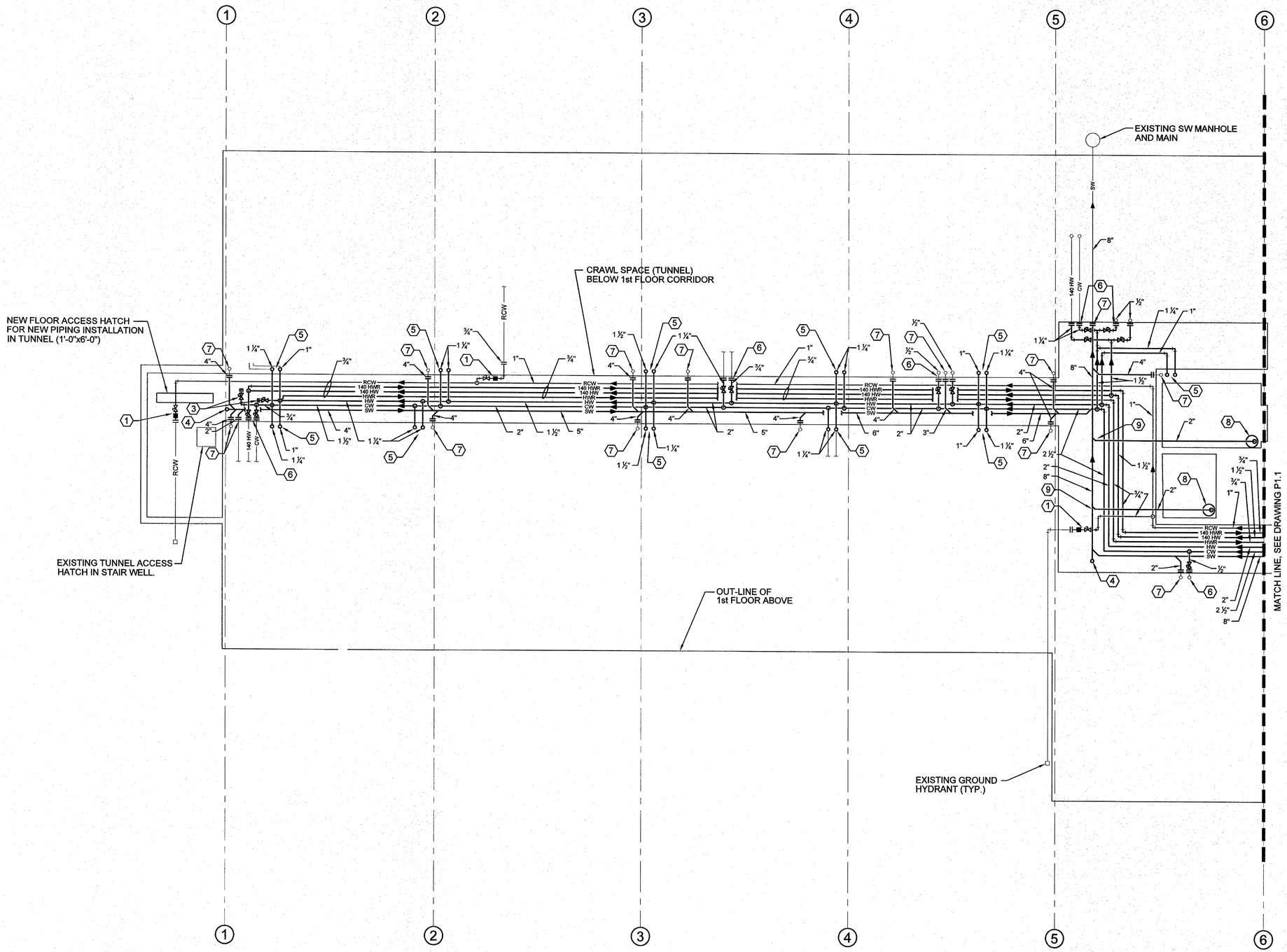
PARTIAL FLOOR PLANS - ELEVATORS

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
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MASSILLON, OHIO 44646

KRRA JOB NO.	K5001-01
DRAWN BY	M. RITZ
CHECKED BY	DDC

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KRRA@KARLROHRER.COM



NORTH

CRAWL SPACE (TUNNEL) PLAN - DEMOLITON & NEW WORK PLUMBING

SCALE: 3/16"=1'-0"

NOTE:
ALL LISTED DIMENSIONS ARE ± FIELD VERIFY FOR THIS EXISTING BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND BIDDER TO **FIELD VERIFY ALL DIMENSIONS.**

GENERAL NOTE:
SEE DRAWING P2.0 FOR SYMBOL LEGEND, NOTES AND DETAILS.

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STATE OF OHIO
DONALD D. CHURCH
E-48062
REGISTERED PROFESSIONAL ENGINEER

CRAWL SPACE (TUNNEL) PLAN DEMOLITION & NEW WORK PLUMBING

STARK METROPOLITAN HOUSING AUTHORITY

LINCOLN APTS. REMODELING & SITE RENOVATIONS

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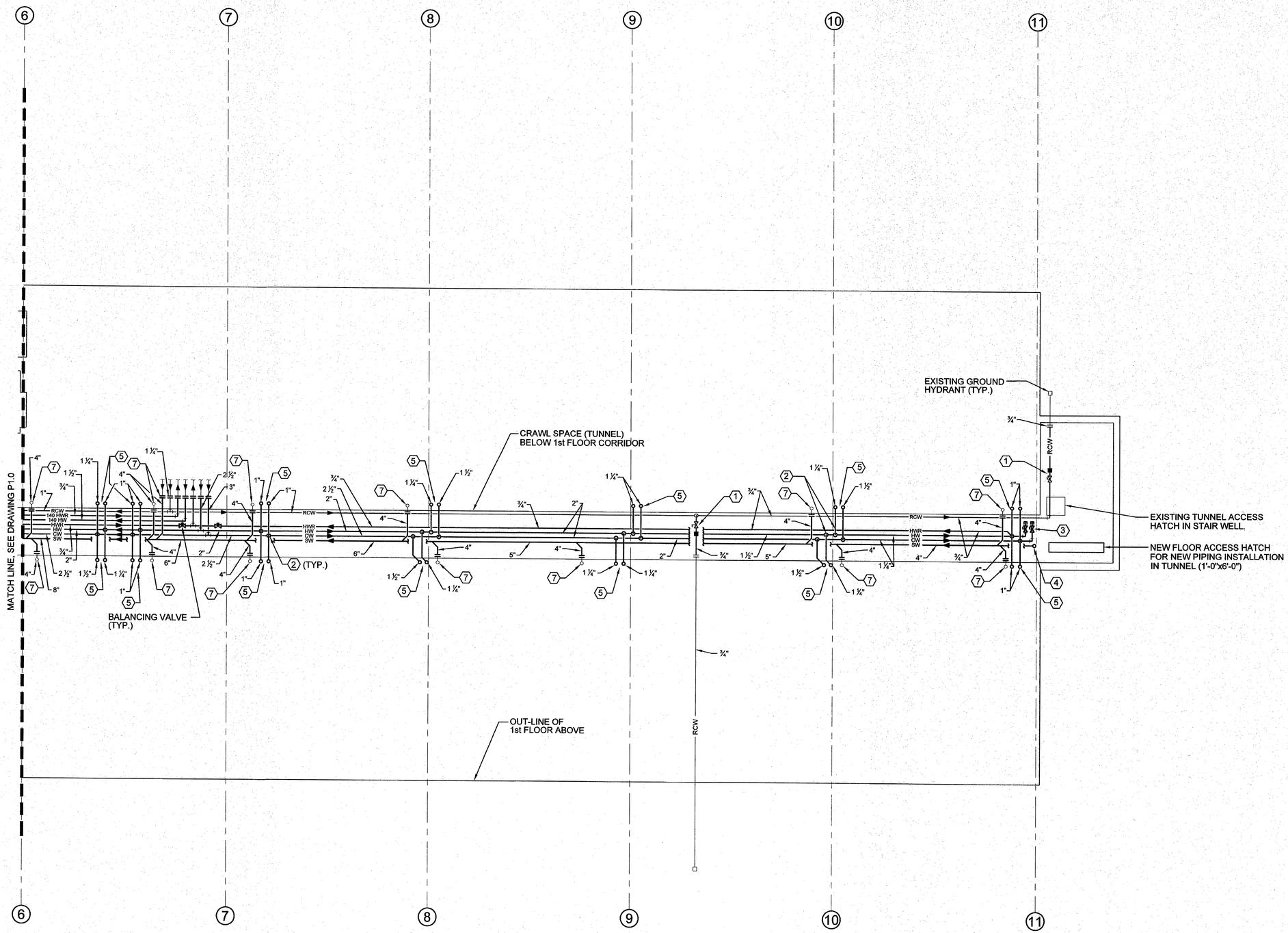
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NORTH

CRAWL SPACE (TUNNEL) PLAN - DEMOLITON & NEW WORK PLUMBING

SCALE: 3/16"=1'-0"

NOTE:
ALL LISTED DIMENSIONS ARE ± FIELD VERIFY FOR THIS EXISTING BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND BIDDER TO **FIELD VERIFY ALL DIMENSIONS.**

GENERAL NOTE:
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CRAWL SPACE (TUNNEL) PLAN DEMOLITION & NEW WORK PLUMBING

STARK METROPOLITAN HOUSING AUTHORITY

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PLUMBING NOTES:

1. PLUMBING CONTRACTOR SHALL PAINT ALL EXPOSED PLUMBING PIPING AND STEEL INSIDE PIPING TUNNEL WITH COLOR AS SELECTED BY ARCHITECT. (UNLESS OTHERWISE STATED IN SPECIFICATIONS)

2. ALL PIPING SHALL BE CONCEALED BELOW FLOORS, IN WALLS, EXCEPT IN TUNNEL UNLESS OTHERWISE NOTED.

3. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PIPING SLEEVES FOR PLUMBING PIPING, OR CORE DRILL OPENINGS AND INSTALL FIRE-STOPPING MATERIAL AROUND PIPING.

4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS IN THE FIELD BEFORE CONSTRUCTION.

5. PROVIDE AND INSTALL ACCESS DOORS IN WALLS AND CEILINGS TO SERVICE VALVES. NOT PROVIDED BY G.C..

6. ALL PIPING CONNECTIONS TO EQUIPMENT SHALL HAVE A UNION.

7. INSTALL BACKFLOW PREVENTION DEVICES AT ALL CONNECTIONS TO POTABLE WATER SUPPLY WHERE BACK SIPHONAGE IS POSSIBLE.

8. INSULATE ALL DOMESTIC WATER PIPING WITH 1" THICK FIBERGLASS WITH ALL SERVICE JACKET .

9. REPLACE ALL DOMESTIC WATER PIPING INSIDE PIPING TUNNEL, VALVING & ETC. REMOVE ALL EXISTING PIPING & ETC. BEING REPLACED.

10. CONTRACTOR SHALL INSTALL NEW SANITARY WASTE FLOOR CLEANOUT ON 1st FLOOR LEVEL AS SHOWN ON DRAWINGS. TIE CLEANOUT INTO EXISTING SANITARY WASTE MAIN IN PIPING TUNNEL.

PLUMBING CODED NOTES

1. REPLACE EXISTING IN-LINE VACUUM BREAKER AND BALL VALVE IN PIPING TUNNEL FOR OUTDOOR HYDRANT. (TYP.)

2. BRANCH LINES OFF OF TOP OF MAIN. (TYP.)

3. BALL DRAIN VALVES WITH THREADED HOSE OUTLET AND THREAD CAP WITH CHAIN. (TYP. FOR ALL MAINS)

4. INSTALL NEW 4" CAST IRON FLOOR CLEANOUT IN SANITARY WASTE MAIN IN PIPING TUNNEL. CLEANOUT COVER SHALL MATCH EXISTING CORRIDOR FLOOR TYPE. (TILE, CARPET OR ETC.)

5. BRANCH LINES UP THRU FLOOR AND TIE INTO EXISTING LINES WITH BALL VALVES IN 1st FLOOR WALL. (TYP.) (SEE DETAIL ON DRAWING "P2.0")

6. TIE NEW BRANCH LINES INTO EXISTING LINES IN TUNNEL WITH BALL SHUT-OFF VALVES.

7. TIE NEW SANITARY WASTE PIPING INTO EXISTING BRANCH PIPING IN TUNNEL. (TYP.)

8. NEW SUMP PUMP (SP-1) MOUNTED (BOLTED) ON FLOOR OF ELEVATOR PIT. (SEE DETAIL THIS SHEET)

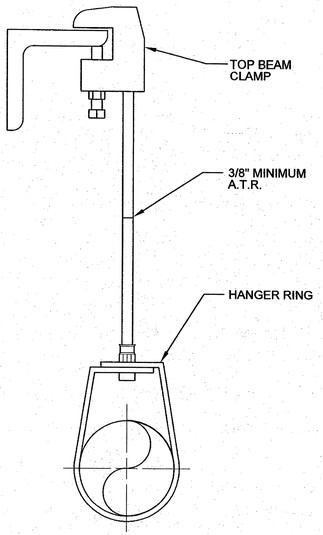
9. TIE NEW 2" SANITARY WASTE LINE FROM SUMP PUMP DISCHARGE AND TIE INTO SANITARY WASTE MAIN IN TUNNEL.

PLUMBING SYMBOL LEGEND

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR
V.T.R.	VENT THRU ROOF
N.T.S.	NOT TO SCALE
E.C.	ELECTRICAL CONTRACTOR
G	NATURAL GAS LINE (LOW PRESSURE)
RCW	RAW DOMESTIC COLD WATER LINE (RCW)
CW	DOMESTIC COLD WATER LINE (CW)
HW	DOMESTIC HOT WATER LINE (HW)
HWR	DOMESTIC HOT WATER RECIRCULATION LINE (HWR)
140 HW	140 F DOMESTIC HOT WATER LINE (HW)
140 HWR	140 F DOMESTIC HOT WATER RECIRCULATION LINE (140 HWR)
SW	SANITARY WASTE (ABOVE GRADE) (SW)
SV	SANITARY VENT LINE (SV)
ID	INDIRECT WASTE LINE (BELOW GRADE)
SW	SANITARY WASTE LINE (BELOW GRADE)
	BALL VALVE
	BALANCE VALVE
	CHECK VALVE
O	CLEANOUT (C.O.)

PLUMBING EQUIPMENT SCHEDULE:

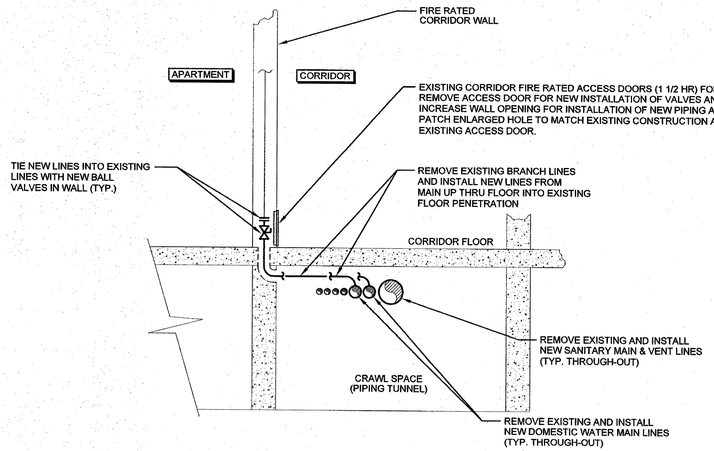
SP-1 SUMP PUMP - "WEIL" MODEL 1400, BRONZE SEMI-OPEN IMPELLER 25 GPM AT 22 FT. HEAD, 1/3 HP, 120/1/60, 1750 RPM, MERCURY FLOAT SWITCH CONTROLS, HIGH WATER LEVEL ALARM CONTACT, AND WALL CONTROL PANELS. (SEE DETAIL)



TYPICAL PIPE HANGER DETAIL

SCALE: N.T.S.

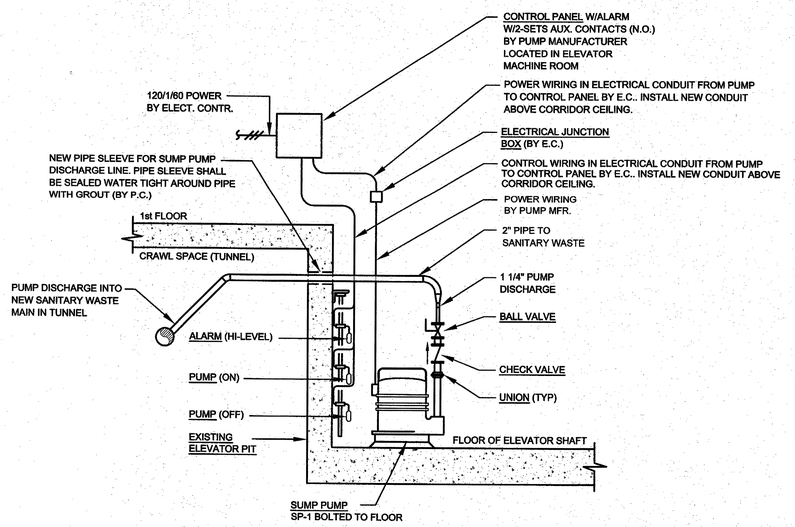
NOTES:
1. PROVIDE HORIZONTAL ANGLE OR UNISTRUT CROSSMEMBER TO REPLACE RUSTED OR DAMAGED EXISTING SUPPORT FOR PIPE HANGERS.
2. REMOVE AND REPLACE ALL PIPE HANGERS.
3. ALL STEEL IN PIPING TUNNEL SHALL BE PAINTED.



PIPING CONNECTION DETAIL

SCALE: N.T.S.

NOTES:
1. PROVIDE HORIZONTAL ANGLE OR UNISTRUT CROSSMEMBER TO REPLACE RUSTED OR DAMAGED EXISTING SUPPORT FOR PIPE HANGERS.
2. REPLACE ALL PIPE HANGERS WITH NEW HANGERS.
3. ALL STEEL IN PIPING TUNNEL SHALL BE PAINTED.



ELEVATOR PIT SUMP PUMP DETAIL

N.T.S.

NOTES:
1. ALL ELECTRICAL CONDUIT AND ETC. FOR WET LOCATION BELOW 4'-0" IN PIT.
2. ALL CONDUIT AND WIRING OUTSIDE OF ELEVATOR SHAFT SHALL BE CONCEALED.

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LEGEND, NOTES AND DETAILS

STARK METROPOLITAN HOUSING AUTHORITY
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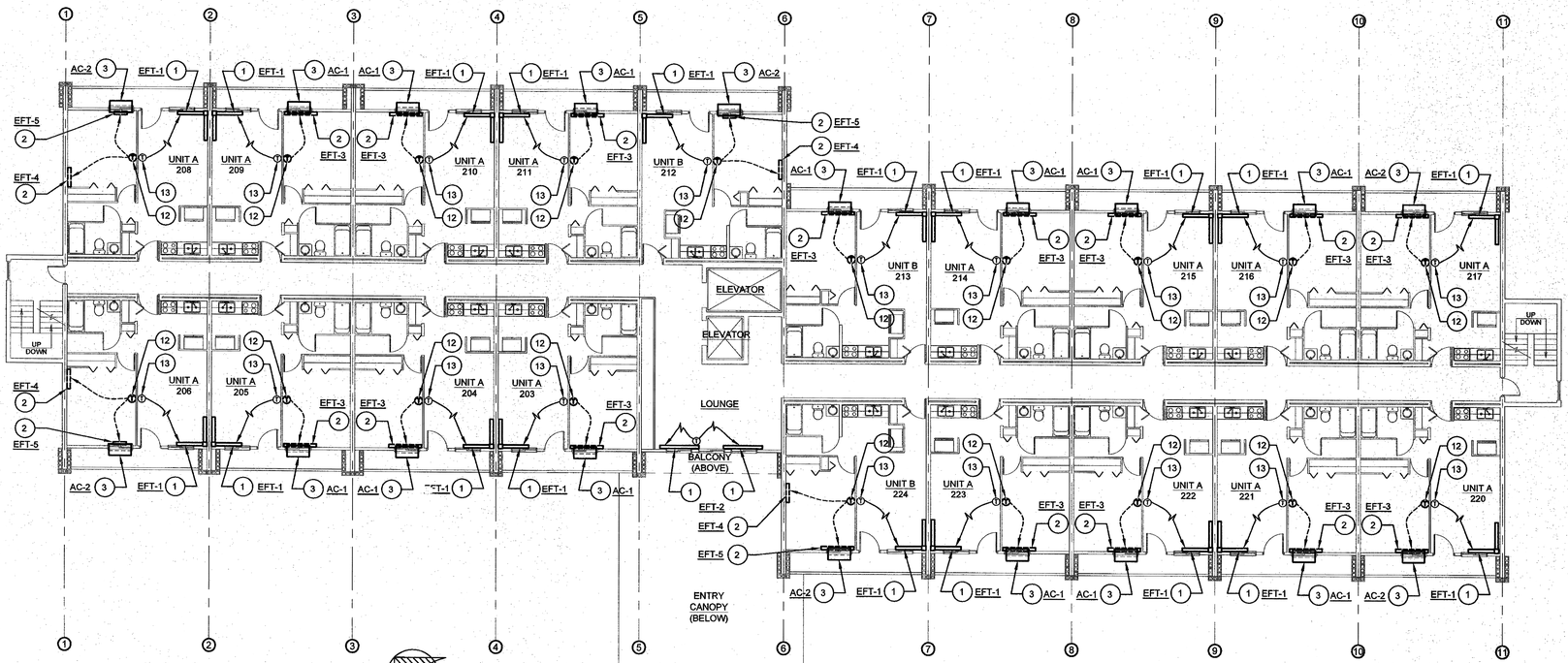
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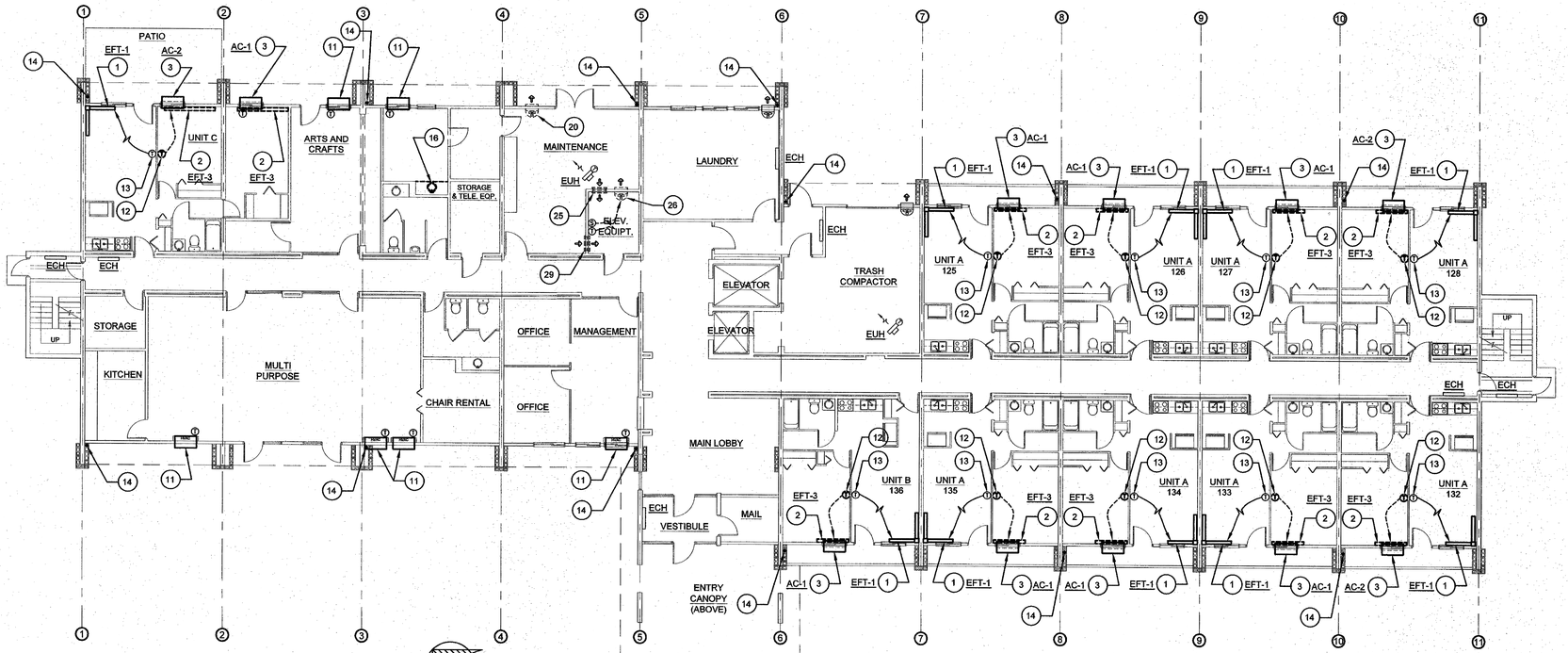
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NORTH

2ND THRU 5TH FLOOR PLAN - HVAC

SCALE: 3/32"=1'-0"



NORTH

1ST FLOOR PLAN - HVAC

SCALE: 3/32"=1'-0"

GENERAL NOTE:
SEE DRAWING H2.0 & H2.1 FOR HVAC SCHEDULES, NOTES AND SYMBOL LEGEND.

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1st FLOOR PLAN & 2nd THRU 5th FLOOR PLANS - HVAC

STARK METROPOLITAN HOUSING AUTHORITY

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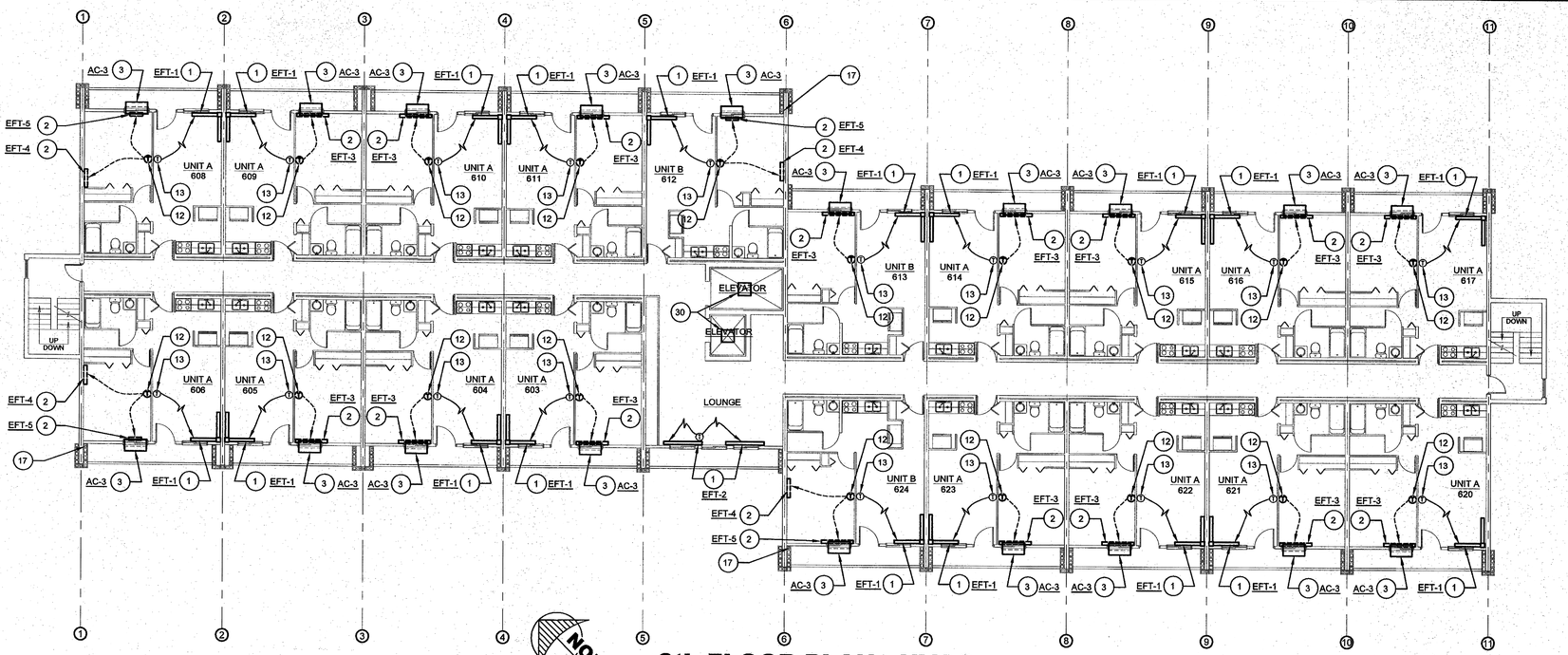
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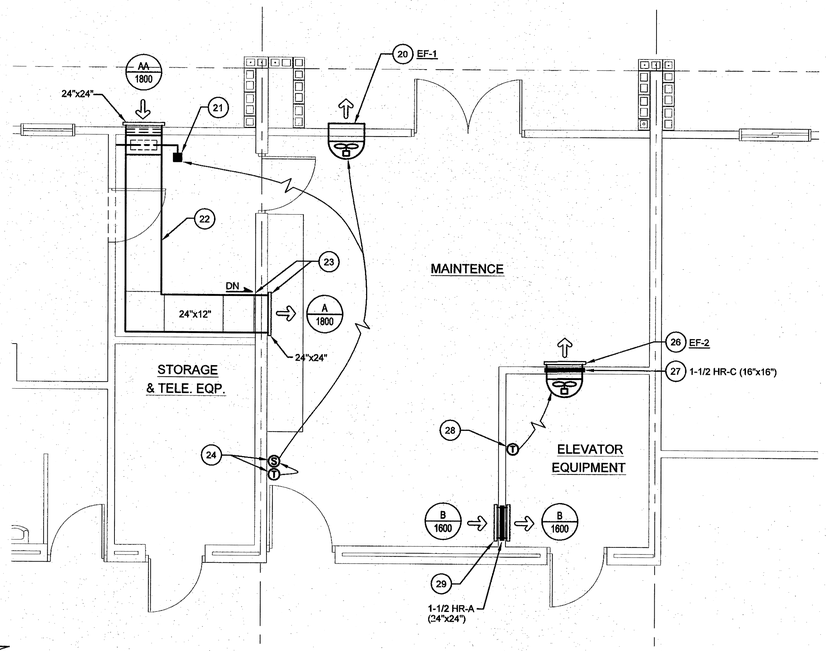
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NORTH

6th FLOOR PLAN - HVAC

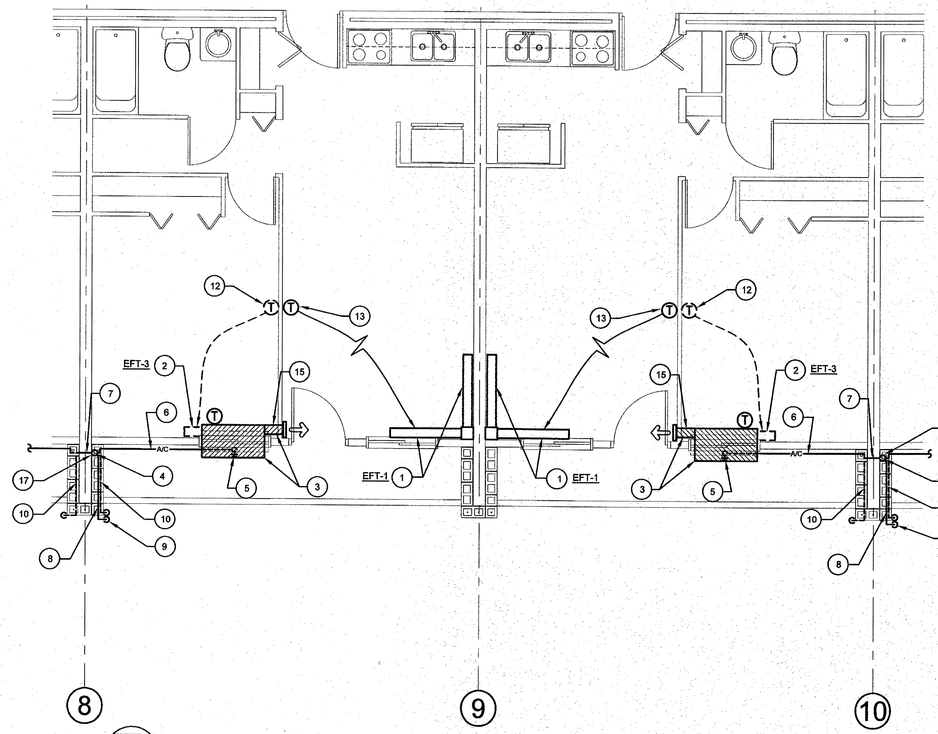
SCALE: 3/32"=1'-0"



NORTH

ENLARGED MAINTENANCE ROOM PLAN - 1st FLOOR

SCALE: 1/4"=1'-0"



NORTH

ENLARGED APARTMENT FLOOR PLAN - 1st FLOOR

SCALE: 1/4"=1'-0"

GENERAL NOTE:

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ENLARGED 1st & MAINTENCE FLOOR PLAN & 6th FLOOR PLAN - HVAC

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○ HVAC CODED NOTES: ○

1. REMOVE EXISTING AND INSTALL NEW ELECTRICAL WALL FIN TUBE WITH THERMOSTAT.

2. REMOVE EXISTING ELECTRICAL WALL FIN TUBE (BASE BID ONLY). REMOVE EXISTING & INSTALL NEW ELECTRICAL WALL FIN TUBE (ALTERNATE H-1).

3. INSTALL NEW THRU WALL ELECTRICAL AIR CONDITIONING AND HEATING PTAC UNIT. SEE ENLARGED APARTMENT FLOOR PLAN. (TYP.)

4. 1" AIR CONDITIONING CONDENSATE DRAIN LINE DOWN IN BLOCK WALL TO 1st FLOOR. CORE DRILL EXISTING SLAB AT EACH FLOOR.

5. AIR CONDITIONING CONDENSATE DRAIN LINE FROM UNIT WITH CLEAN-OUT.

6. 1/2" CONDENSATE DRAIN INSTALLED IN NEW SOFFIT ON UNDERSIDE OF BALCONY. CORE DRILL EXISTING CONCRETE PLANK (MINIMUM 4" FROM BUILDING WALL) TO ACCESS SOFFIT. PROVIDE SCH. 40 PVC PIPE COVER FROM BASE OF PTAC TO BALCONY SLAB TO PROTECT CONDENSATE LINE. PAINT AS SELECTED BY ARCHITECT.

7. 1/2" CONDENSATE DRAIN THRU EXISTING WALL. CORE DRILL OPENING.

8. 1" CONDENSATE HORIZONTAL DRAIN LINE THRU NEW BLOCK WALL. FOR 2nd THRU 6th FLOOR UNITS.

9. 1" CONDENSATE DRAIN LINE THRU WALL. 2'-0" A.F.G. WITH 90° ELBOW DOWNWARD.

10. 1/2" CONDENSATE DRAIN LINE FROM 1st FLOOR AIR CONDITIONING UNIT INSIDE BLOCK THRU OUTSIDE WALL 1" A.F.G. WITH ELBOW DOWNWARD. DRAIN LINE FOR 1st FLOOR UNIT TO BE SEPARATE FROM 2nd THRU 6th FLOOR UNITS.

11. EXISTING PTAC UNITS TO REMAIN.

12. REMOVE EXISTING WALL THERMOSTAT FROM REMOVED WALL FIN TUBE AND PATCH WALL TO MATCH EXISTING CONSTRUCTION (BASE BID ONLY). REMOVE EXSITNG AND INSTALL NEW WALL THERMOSTAT FOR NEW ELECTRICAL WALL FIN TUBE (ALTERNATE H-1).

13. REMOVE AND INSTALL NEW WALL THERMOSTAT FOR NEW WALL FIN TUBE.

14. 1" AIR CONDITIONING CONDENSATE DRAIN LINE FROM PTAC UNITS. (SEE ENLARGED APARTMENT FLOOR PLAN).

15. SUPPLY AIR DUCT FROM PTAC UNIT THRU WALL TO LIVING ROOM WITH WALL REGISTER (LATERAL DUCT KIT).

16. REMOVE EXISTING SINK AND ASSOCIATED PIPING. REMOVE EXISTING DOMESTIC WATER AND SANITARY VENT PIPING TO MAIN AND CAP. CAP SANITARY WASTE PIPING FLUSH WITH FLOOR.

17. 1" DIA. CLEAN OUT IN WALL FOR A/C CONDENSATE RISER STACKS ON 6TH FLOOR (TYP FOR 13).

18. NOT USED.

19. NOT USED.

20. REMOVE EXISTING WALL EXHAUST FAN AND DISCHARGE AIR SHUTTER. INSTALL NEW WALL BOX FAN WITH DISCHARGE SHUTTER.

21. INSTALL NEW WALL INTAKE AIR LOUVER WITH CONTROL AIR DAMPER WITH ELECTRICAL ACTUATOR.

22. INTAKE AIR DUCTWORK TIGHT TO BOTTOM OF 2nd FLOOR STRUCTURE.

23. SLOPE DUCTWORK DOWN TO BELOW ELECTRICAL CONDUIT IN ELECTRICAL ROOM. TOP OF INTAKE AIR GRILLE SHALL BE BELOW ELECTRICAL CONDUIT AND REMOVE SECTION OF EXISTING WALL PEG BOARD FOR GRILLE INSTALLATION.

24. WALL COOLING THERMOSTAT AND ON - OFF SWITCH

25. REMOVE EXISTING WALL TRANSFER GRILLE AND FIRE DAMPER. PATCH WALL TO MATCH EXISTING CONSTRUCTION.

26. REMOVE EXISTING WALL EXHAUST FAN, FIRE DAMPER AND DISCHARGE AIR SHUTTER. MODIFIED EXISTING OPENING FOR NEW EXHAUST FAN. INSTALL NEW WALL EXHAUST FAN AND DISCHARGE AIR SHUTTER.

27. INSTALL FIRE DAMPER BETWEEN THE EXHAUST FAN AND DISCHARGE AIR SHUTTER.

28. WALL COOLING THERMOSTAT.

29. REMOVE EXISTING WALL AIR TRANSFER GRILLE AND FIRE DAMPER. MODIFIED EXISTING OPENING FOR NEW TRANSFER AIR DUCT. INSTALL NEW FIRE DAMPER AND WALL GRILLES.

30. REMOVE EXISTING DRYWALL FROM THE INSIDE OF ROOFTOP LOUVERED PENTHOUSE. INSTALL NEW ALUMINUM BIRDSCREEN OVER INSIDE OF LOUVERS OPENINGS. PROVIDE AND INSTALL CONTROL AIR DAMPER WITH AN ELECTRICAL ACTUATOR (120/1/60 POWER) AT BASE OF LOUVERED PENTHOUSE, THE ACTUATOR SHALL BE SPRING RETURN CLOSE AND TIED INTO BUILDING FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.

HVAC DRAWINGS NOTES:

1. THE DUCTWORK SHALL BE INSULATED AS FOLLOWS:
   A) EXHAUST DUCTWORK - NONE
   B) OUTSIDE AIR DUCTWORK - 2" THICK EXTERNAL INSULATION

2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL TEMPERATURE CONTROL WIRING AND EQUIPMENT. ALL CONTROL AIR DAMPERS SHALL BE LOW LEAKAGE TYPE WITH JAM SEALS.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATION IN FIELD BEFORE CONSTRUCTION.

4. PROVIDE ALL REQUIRED OFFSETS FOR DUCTWORK AND PIPING.

5. ALL EQUIPMENT, DUCTWORK, PIPING, ETC. EXPOSED INSIDE OR OUTSIDE BUILDING SHALL BE PAINTED WITH COLOR AS SELECTED BY ARCHITECT.

6. ALL DUCTWORK DIMENSIONS ARE ACTUAL SHEET METAL SIZES.

7. SUPPLY AIR, RETURN AIR, EXHAUST AIR AND ETC. DUCTWORK SHALL HAVE HIGH PRESSURE DUCT SEALANT ON JOINTS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, REMOVAL & RE-INSTALLATION OF WALL, FLOORS, ETC. & NEW MATERIALS FOR THE INSTALLATION OF THEIR RESPECTIVE WORK AS SHOWN ON THE DRAWINGS OR SPECIFICATIONS FOR AREAS OTHERWISE NOT INVOLVING GENERAL CONSTRUCTION WORK.

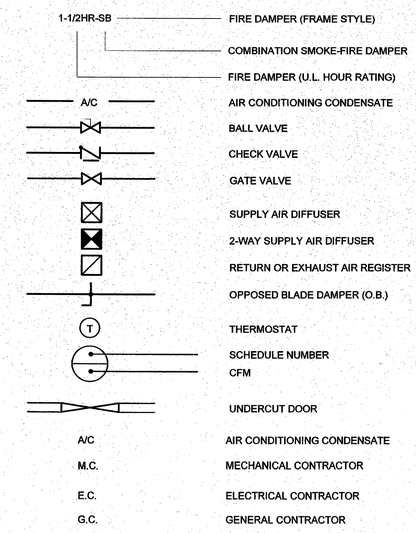
9. THE AIR CONDITIONING CONDENSATE PIPING SYSTEM SHALL BE TYPE L HARD COPPER PIPING WITH DWV COPPER FITTINGS AND SOLDERED JOINTS.

10. **ALTERNATE H-1** - FURNISH AND INSTALL NEW ELECTRICAL BASEBOARD HEATER INSTEAD OF NEW PTAC HEATING AND AIR CONDITIONING SYSTEM.

11. EXHAUST AIR FANS SHALL BE CONTROLLED BY A TWO STAGE COOLING WALL THERMOSTAT.
    A). ELECTRICAL ROOM EXHAUST SYSTEM SHALL ALSO OPEN INTAKE AIR LOUVER CONTROL DAMPER WHEN FAN IS OPERATING. THE ACTUATOR SHALL BE SPRING RETURN CLOSED & POWER TO OPEN. THE TEMPERATURE CONTROL SYSTEM SHALL ALSO HAVE ON - OFF WALL SWITCH.

HVAC SYMBOL LEGEND

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
EF	EXHAUST FAN
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
CH	CABINET HEATER
OA	OUTSIDE AIR
FT	FIN-TUBE



A/C	AIR CONDITIONING CONDENSATE
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR

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NOTES AND SYMBOL LEGEND

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HEATING EQUIPMENT SCHEDULE

NO.	MAKE	MODEL	DESCRIPTION	ΔT AIR	CFM	MBH	(WATER) ΔT	(WATER) ΔP	GPM	VOLTAGE	WATTS	RPM	REMARKS
EFT-1	Q-MARK	QMKC-2504W	ELECTRIC PEDESTAL FIN-TUBE	--	--	3.4	--	--	--	208/1/60	1000 W	--	WITH D.S.
EFT-2	Q-MARK	QMKC-2506W	ELECTRIC PEDESTAL FIN-TUBE	--	--	5.1	--	--	--	208/1/60	1500 W	--	WITH D.S. AND NON-TAMPER THERMOSTAT
EFT-3	Q-MARK	QMKC-2508W	ELECTRIC PEDESTAL FIN-TUBE	--	--	6.8	--	--	--	208/1/60	2000 W	--	WITH D.S.
EFT-4	Q-MARK	QMKC-2503W	ELECTRIC PEDESTAL FIN-TUBE	--	--	2.5	--	--	--	208/1/60	750 W	--	WITH D.S.
EFT-5	Q-MARK	QMKC-2506W	ELECTRIC PEDESTAL FIN-TUBE	--	--	5.1	--	--	--	208/1/60	1500 W	--	WITH D.S.

NOTES:
1. HEATERS SHALL HAVE BAKED ENAMEL FINISH, END CAPS, INTERGRAL DISCONNECT SWITCH & THERMOSTAT. (SEE DRAWINGS FOR THE TYPE OF THERMOSTAT INTERGRAL OR WALL).
2. CAPACITIES BASED ON 65°F E.A.T.
3. EFT-1 (4 FT. LENGTH SECTIONS) WALL MOUNTED THERMOSTAT (LINE VOLTAGE), INSIDE CORNER SECTION. TWO SECTION REQUIRED IN EACH APARTMENT.
4. EFT-2 (6 FT. LENGTH) UNIT MOUNTED (INTEGRAL) THERMOSTAT. PROVIDE NEW LINE VOLTAGE WALL THERMOSTAT FOR EACH ROOM AS SHOWN ON DRAWINGS (ALT. H-1).
5. EFT-3 (8 FT. LENGTH) WALL MOUNTED THERMOSTAT. (LINE VOLTAGE)
6. EFT-4 (3 FT. LENGTH) WALL MOUNTED THERMOSTAT. (LINE VOLTAGE)
7. EFT-5 (6 FT. LENGTH) WALL MOUNTED THERMOSTAT. (LINE VOLTAGE)

PACKAGED TERMINAL AIR CONDITIONING UNIT SCHEDULE

MARK	SERVICE	CFM	O.A. CFM	VOLTAGE	HEATING CAPACITY COP	HEATING CAPACITY OUTPUT	COOLING CAPACITY TOTAL	COOLING CAPACITY SENS.	COOLING CAPACITY EER	MANUFACTURER & MODEL NO.	WEIGHT	ELECTRICAL HEAT
AC-1	GUEST RM.	300	35	208/1/60	3.2	7,900	8,900	---	11.3	FRIEDRICH PDH-09K	100	2.8 Kw (9500 BTU)
AC-2	GUEST RM.	300	35	208/1/60	3.2	7,900	8,900	---	11.3	FRIEDRICH PDH-09K	100	2.8 Kw (9500 BTU)
AC-3	GUEST RM.	325	35	208/1/60	3.1	10,600	11,800	---	10.5	FRIEDRICH PDH-12K	100	2.8 Kw (9500 BTU)

REMARKS:
1. SUBBASE KIT
2. FUSE HOLDER KIT
3. POWER DISCONNECT SWITCH
4. CONDENSATE DISPOSAL PUMP FOR HEAT PUMP UNIT
5. WAII SLEEVE (INSULATED)
6. EXTRUDED ALUMINUM ARCH. GRILLE
7. COMPRESSOR TIME DELAY
8. UNIT CONTROLS
9. HARD WIRE KIT.
10. FILTERS PERMANENT, CLEANABLE
11. PROVIDE TWO SPARE UNITS FOR EACH SIZE OF UNIT FOR OWNERS STOCK.
12. CONDENSATE DRAIN KIT.
13. CORROSION RESISTANT CHASSIS.
14. POWER REQUIREMENTS: 19.0 MCA, 20 MFS AT 208/1/60.
15. LATERAL DUCT KIT: ADAPTER PLENUM, EXTENSION DUCT, WALL SLEEVE, WALL REGISTER AND MOLDING KIT FOR WALL OPENING.

EXHAUST & SUPPLY AIR FAN SCHEDULE

NO.	MAKE	MODEL	CFM	S.P.	H.P.	FAN RPM	BHP	FAN TYPE	DRIVE	WHEEL	VOLTAGE	CURB TYPE	REMARKS
EF-1	LOREN COOK	16 S10D	1800	1/10	1/6	950	--	PROPELLER PAC WALL UNIT (TYPE SPD)	DIRECT DRIVE	PROP.	120/1/60	--	ELECTRICAL ROOM (10 SONES)
EF-2	LOREN COOK	14 S10D	1600	1/10	1/6	1130	--	PROPELLER WALL TYPE (TYPE SWD)	DIRECT DRIVE	PROP.	120/1/60	--	ELEVATOR MACHINE ROOM (10 SONES)

NOTE:
1). EF-1 - BOX EXHAUST FAN WITH MOTORIZED DISCHARGE AIR SHUTTER, ALUMINUM BLADES, OSHA FAN GUARD, VERTURI TYPE, TWO-SPEED MOTOR.
2). EF-2 - WALL EXHAUST FAN WITH OSHA FAN GUARD, AUTOMATIC DISCHARGE AIR SHUTTER, VERTURI TYPE, ALUMINUM BLADES, TWO-SPEED MOTOR, TFC MOTOR.
3). ALL FANS PROVIDE & INSTALL VARIABLE SPEED CONTROLLER ON SIDE OF FAN HOUSING TO BE USED FOR BALANCING.

DIFFUSER, REGISTER, LOUVER SCHEDULE

NO.	MAKE	MODEL	SIZE	MAX CFM	MAX N.C.	DAMPER	FINISH	REMARKS
A	TITUS	23RL	24"x24"	1800	35	O.B.	OFF WHITE	SURFACE MOUNTED
B	TITUS	23RL	24"x24"	1600	35	O.B.	OFF WHITE	SURFACE MOUNTED
AA	RUSKIN	ELF375DD	24"x24"	1800	--	---	BAKED ENAMEL	

NOTES: 1. LOUVER SHALL HAVE BAKE ENAMEL FINISH, FLANGE BORDER AND ALUMINUM BIRD SCREEN.

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STATE OF OHIO
DONALD D. CHURCH
E-48062
REGISTERED
PROFESSIONAL ENGINEER

SCHEDULES

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
MASSILLON, OHIO 44646
815 LINCOLNWAY EAST

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CHECKED BY	DDC

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H2.1

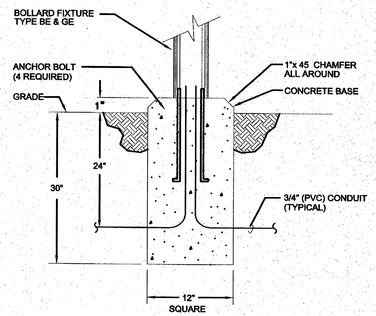
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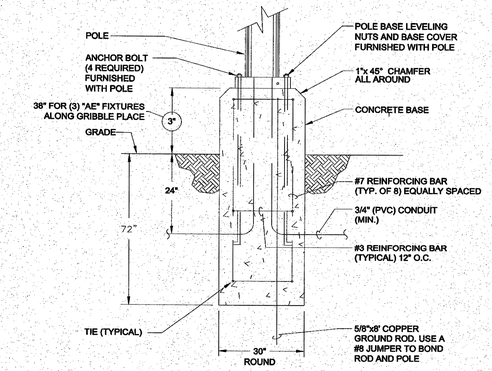
LIGHTING FIXTURE SCHEDULE

TYPE	LAMP		WATTAGE		VOLTAGE	DESCRIPTION	MANU.	CATALOG #	REMARKS
	TYPE	QUANTITY	LAMP	FIXTURE					
AE	HPS	1	250	310	208	POLE MOUNTED CUT OFF LUMINARE MOUNTED ON 18' SQ. STRAIGHT ALUM. POLE SSA-18-5G, DM19-ADB	LITHONIA	AS2-250S-SR4SC 208-SPA-DF-DDB	PROVIDE DUPLEX GFCI W.P. RECEPTACLE IN POLE WHERE SHOWN. MOUNTED @ 30" A.F.G.
BE	HPS	1	70	100	208	8"Ø 42" HIGH BOLLARD WITH CYLINDRICAL REFLECTOR	LITHONIA	KBC8-70S-CYG 208 DDB	
CE	CF	1	26	28	208	GROUND MOUNTED SIGN LIGHTING FIXTURE	LITHONIA	TFM26DTTRB6X6 MVOLTLP1-DBL TFMFV	
DE	MH	1	70	100		FLUSH IN GROUND FLAG POLE FLOOD LIGHT	HYDREL	9100AB-P3870M FL-208 34BNPT-IGS	
EE	HPS	1	70	100	120	WALL MOUNTED HPS WALL PACK 70W HPS LAMP WITH PHOTOCELL CONTROL	LITHONIA	TWA70S-120 DF-LP1-DBL RKI-PEB1	REPLACES EXISTING INC. WALL FIXTURE
FE	HPS	1	70	100	208	POLE MOUNTED DECORATIVE POST TOP MOUNT ON 12' ROUND STRAIGHT ALUMINUM POLE RSA124C DBL. BLACK FINISH.	LITHONIA	TCL70S-R5A-208 LPI-DF	
GE	HPS	1	70	100	208	SAME AS FIXTURE "BE" EXCEPT WITH #R8S H- _F SHIELD	LITHONIA	KBC8-70S-CYG 208DDB-R8S	
HE	TRT	2	42	88	120	WALL MOUNTED COMPACT FLUORESCENT 50% UP AND DOWN DISTRIBUTION	LITHONIA	WSR2/42TRT-MDU5-MVOLT-LPI-DBLB	MOUNT AS REPLACEMENT FOR EXISTING FIXTURE UNDER CANOPY
JE	T8	2	32	62	120	4' LONG (2) LAMP DAMP LOCATION FIXTURE WITH HIGH IMPACT ACRYLIC DIFFUSER	LITHONIA	DM232 AR 120 GEB STSL	SIDE WALL MOUNT IN FABRIC CANOPY SEE DRAWING A3.1

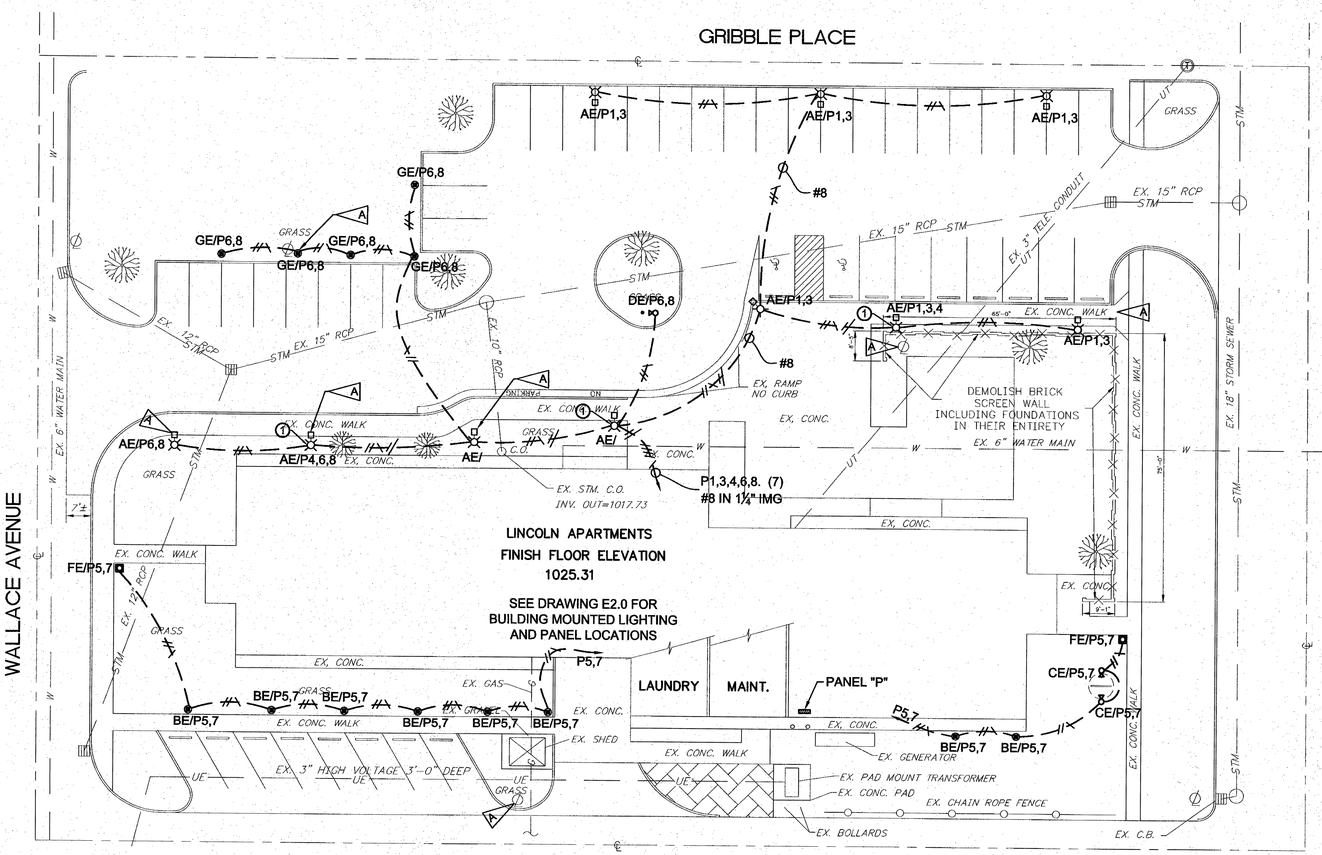
(A) REMOVE EXISTING POLES AND BASES WHERE INDICATED. DISCONNECT AND REMOVE WIRING. ABANDON CONDUIT OR RE-USE IF POSSIBLE.



BOLLARD BASE DETAIL
NO SCALE



BASE DETAIL (FIXTURE "AE")
NO SCALE



NOTE: (1) THESE POLES SHALL HAVE GFCI RECEPTACLES INSTALLED

ALL WIRING TO EXTERIOR LIGHTS SHALL BE #10 MINIMUM UNLESS NOTED OTHERWISE

SITE PLAN LIGHTING + UTILITY

SCALE: 1"=20'-0"

BASE DETAIL (FIXTURE "FE")
NO SCALE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

UTILITIES:

TWO (2) DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL HAVE THE EXISTING UTILITIES VERIFIED AND STAKED BY THE OHIO UTILITY PROTECTION SERVICES.

UNDERGROUND UTILITIES
2 WORKING DAYS BEFORE YOU DIG
Call...800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

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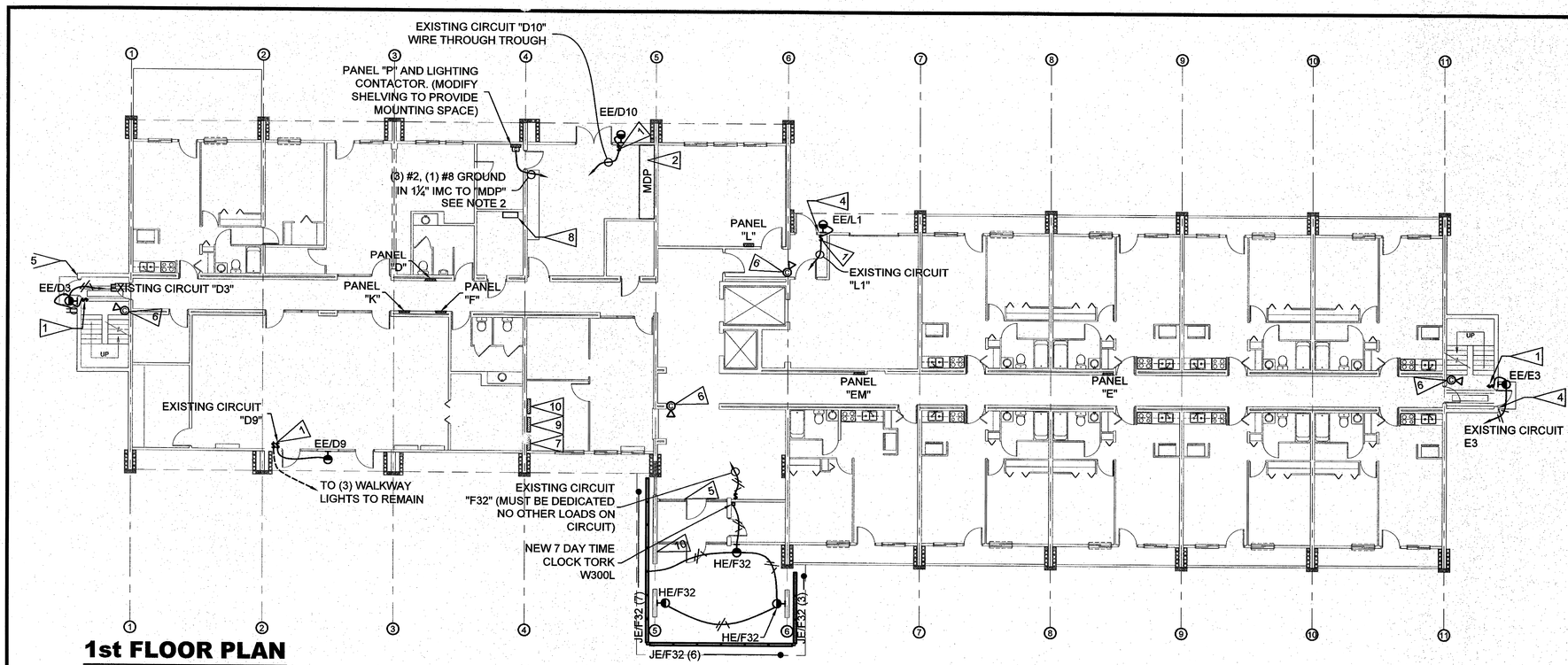
SITE LIGHTING

STARK METROPOLITAN HOUSING AUTHORITY
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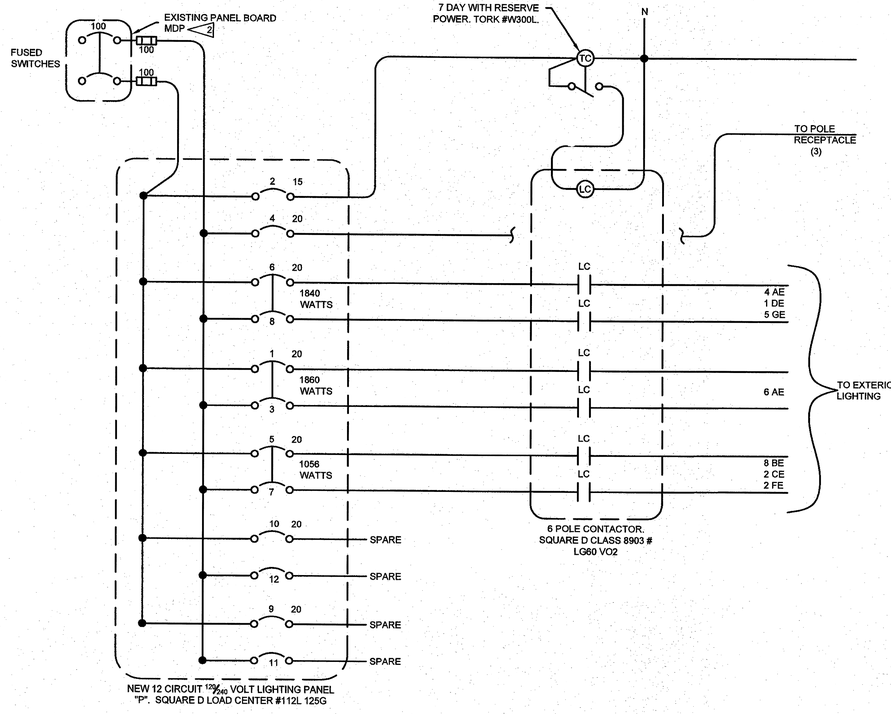
1st FLOOR PLAN

SCALE: 3/32'=1'-0"

NOTE: EXISTING CIRCUIT NUMBERS ARE FROM EXISTING DRAWINGS. FIELD VERIFY.

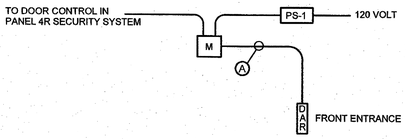
FLAGNOTES:

1. REMOVE EXISTING CANOPY LIGHT SWITCH. EXTEND CIRCUIT TO NEW TIME CLOCK. BLANK COVER SWITCH BOX. NEW LIGHTS ARE AUTOMATICALY CONTROLLED. (TIME SWITCH OR PHOTOCELL).
2. CONNECT NEW EXTERIOR LIGHTING PANEL BOARD TO SPARE 100A SWITCH IN PANEL "MDP". USE (2) POLES ONLY.
3. NEW PANEL "P", TIME CLOCK "TC", AND CONTACTOR "LC". REARRANGE STORAGE SHELVES TO PROVIDE SPACE OR LOCATE AS DIRECTED BY OWNER. PROVIDE (3) #2, (1) #8 GROUND, IN 1¼" IMC TO MDP (SEE NOTE 2)
4. PROVIDE NEW "MINI PROX" READER AND ASSOCIATED WIRING BACK TO READER PANEL (SEE DIAGRAM)
5. REPLACE EXISTING DOOR DEVICE WITH NEW "MINI PROX" READER. REUSE EXISTING WIRING IF POSSIBLE. (SEE DIAGRAM)
6. REPLACE CAMERA IN LOBBY AND ADD NEW CAMERAS AT LOCATIONS SHOWN. PROVIDE REQUIRED CABLING (SEE DIAGRAM)
7. NEW 4 CHANNEL DVR AND 21" MONITOR, FIELD LOCATE AS DIRECTED BY SMHA STAFF. REMOVE EXISTING MONITOR AND ASSOCIATED EQUIPMENT NO LONGER NEEDED.
8. EXISTING READER PANEL 4 CIRCUIT TO REMAIN. IF NOT 4 CIRCUIT, REPLACE WITH KEYSCAN CA4000 UNIT.
9. PROVIDE REMOTE TELEPHONE OR LAN/WAN ALARM CONNECTION COORDINATE WITH OWNER.
10. PROVIDE DOOR RELEASE SYSTEM WITH VISUAL/VOICE COMMUNICATION TO MAIN DOOR.



OUTDOOR LIGHTING CONTROL

SCALE: N.T.S.

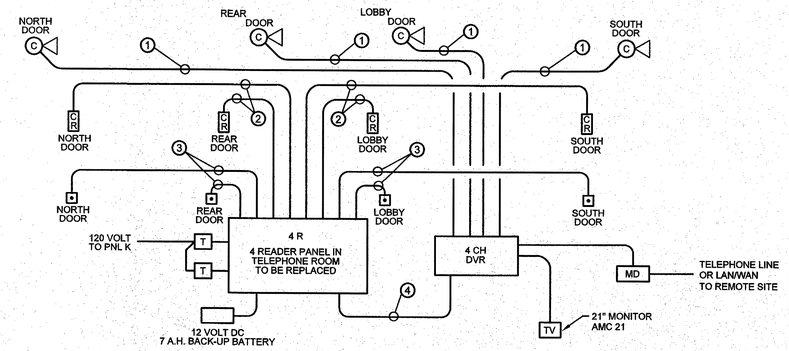


LEGEND:

- M - "AIPHONE" MODEL #KC-DAR, MASTER UNIT IN OFFICE. FIELD LOCATE AS REQUIRED BY OWNER
- DAR - "AIPHONE" MODEL #KC-DAR, REMOTE CAMERA AND AUDIO WITH CALL BUTTON
- PS-1 - UNIT POWER SUPPLY DEVICE FURNISHED WITH UNIT CONVERTS 120 VOLT AC TO UNIT POWER AS REQUIRED
- A - "AIPHONE" MODEL #841802, INTERCONNECT CABLE FROM DOOR UNIT TO MASTER. INTERCONNECT SYSTEM DOOR RELEASE WITH SECURITY SYSTEM DOOR RELEASE

DOOR RELEASE SYSTEM WITH VISUAL MONITOR, VOICE INTERCOM & DOOR RELEASE

SYSTEM SHALL BE FURNISHED AND INSTALLED AS DIRECTED BY THE MANUFACTURER, "AIPHONE COMMUNICATIONS". REPRESENTED BY "TRI-S" CONTROLS AND BY SPECIFICATIONS SECTION 16.



CODED NOTES:

1. CABLING TO CAMERAS: 1 - RG59/6U. COAX AND 1 - 2/C #18 CABLE.
   NOTE: MAIN LOBBY CAMERA AND REAR DOOR CAMERA EXISTING. ALL OTHER CAMERAS ARE NEW ADDITIONS. (2)
2. CABLING TO READER: 1 - 3 PAIR SHIELDED 22 GAUGE. CALVERT #402-2203R-OFS
3. DOOR OPERATION CABLING: THE BUILDING HAS AT THE PRESENT THE FOLLOWING DOOR CONTROL DEVICES AND CONTRACTOR SHALL RECONNECT EXISTING WIRING AT EACH END TO NEW CONTROL READER AND CONTROLLER. (2 #18 IF EXISTING IS BAD)
4. CABLING READER TO DVR: 1 - 5 CONDUCTOR SHIELDED 22 GAUGE CABLE.

LINCOLN - LOBBY DOOR, REAR DOOR AND NORTH DOOR. ADD SYSTEM TO SOUTH DOOR.

NEW SYSTEM WILL INCLUDE 3 PAIR SHIELDED 22 GAUGE INTERCONNECT CABLE FROM CONTROLLER, DOOR CONTACT, DOOR HOLDER AND EXIT PUSHBUTTON AND ASSOCIATED WIRING.

SECURITY/DOOR MONITOR DIAGRAM FOR SECURITY CARD:

SYSTEM SHALL BE FURNISHED AND INSTALLED AS DIRECTED BY THE MANUFACTURER, "KEYSCAN, INC.". REPRESENTED BY "TRI-S" CONTROLS AND BY SPECIFICATIONS SECTION 16.

LEGEND:

- C - COLOR CAMERA W/ 8mm LENS MOUNTING BRACKET KEYSCAN CCCB80H6
- CR - MINI PROX READER KEYSCAN HIDC 5365
- 4 CH - FOUR CHANNEL DVR KEYSCAN DVRD410 C320
- TV - 21" MONITOR KEYSCAN AMC 21
- MD - MODEM #MC33H TELEPHONE OR MSSCOMMP LAN/WAN INTERFACE
- T - 40 VA 120/16.5V TRANSFORMER
- 4 R - 4 READER CONTROL PANEL KEYSCAN CA4000
- ⊡ - DOOR RELEASE STRIKE

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1st FLOOR OUTDOOR LIGHTING

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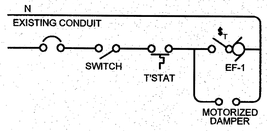
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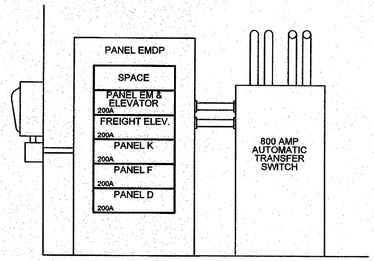
EF-1/DAMPER CONTROL

SCALE: N.T.S.

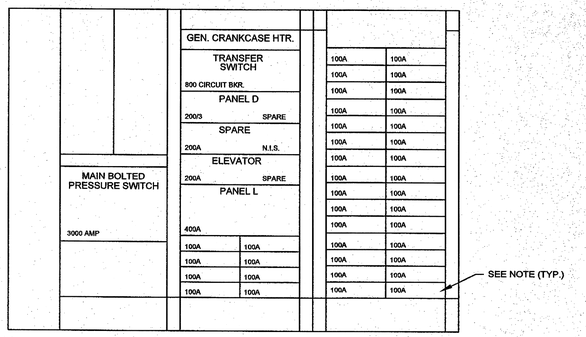
SEE MECHANICAL DRAWING FOR EQUIPMENT ROOM VENTILATION DETAILS

SYMBOLS THIS DRAWING

- MOTOR (EXHAUST FAN)
- (T) THERMOSTAT (LINE VOLTAGE) FURNISHED BY MECH. CONTR.
- $_T THERMAL TRIP SWITCH FURNISHED BY ELEC. CONTR.
- $ 20A, 120 VOLT TOGGLE SWITCH FURNISHED BY ELEC. CONTR.
- ⊡ CONNECTION TO MOTORIZED DAMPER

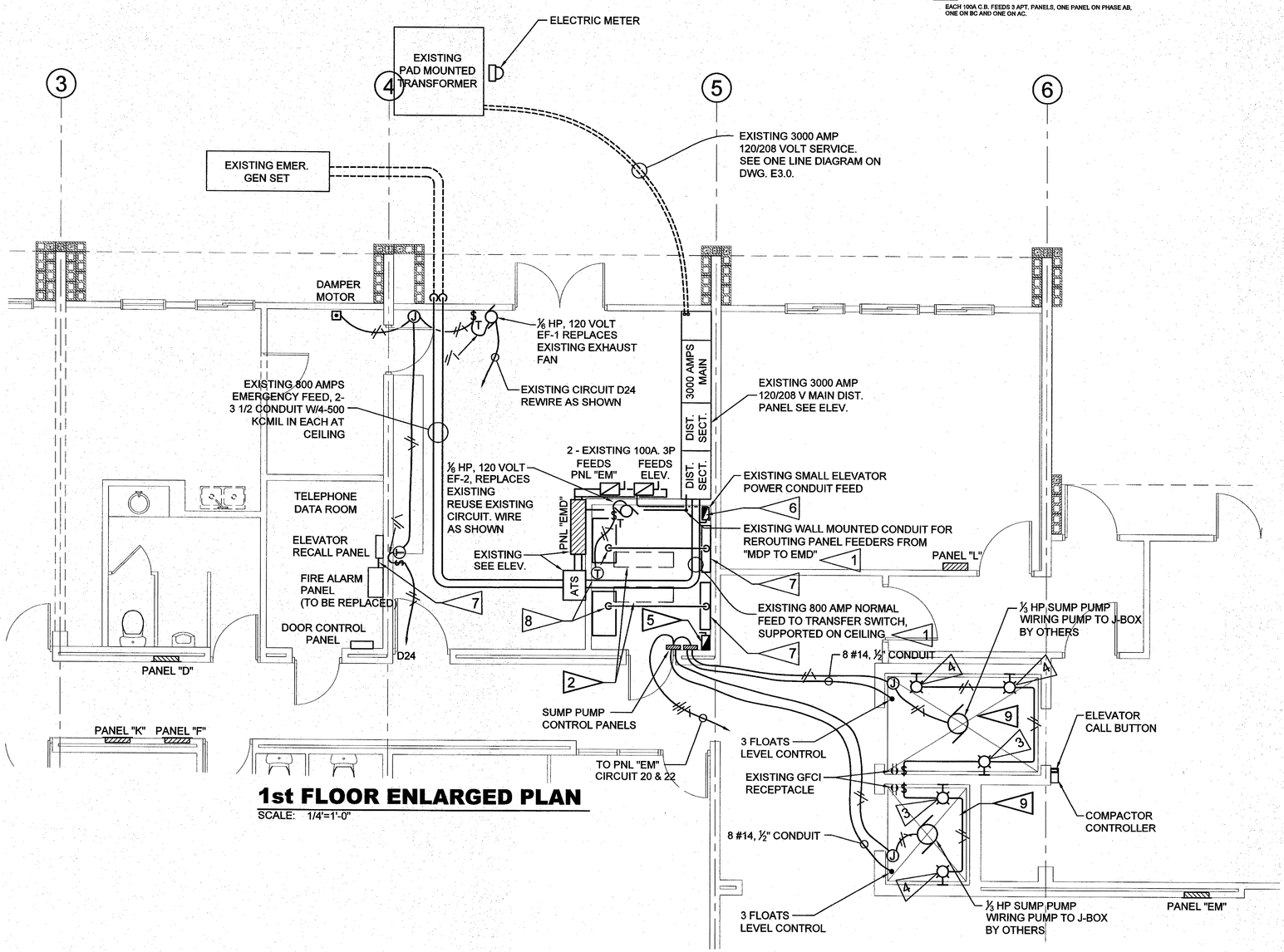


EXISTING EMERGENCY SYSTEM ELEVATION



EXISTING MDP ELEVATION

NOTE:
EACH 100A C.B. FEEDS 3 APT. PANELS, ONE PANEL ON PHASE AB, ONE ON BC AND ONE ON AC.



1st FLOOR ENLARGED PLAN

SCALE: 1/4"=1'-0"

FLAG NOTES:

(FOR THIS DRAWING ONLY)

1. SEE ARCHTITECT DRAWINGS FOR CONDUIT ENCASEMENT OF NON-ELEVATOR CONDUITS IN EQUIPMENT ROOM.
2. PROVIDE WIRE GUARD ON 2 - 4'-0' LAMP OPEN STRIP FLUORESCENT FIXTURES, OR REPLACE WITH LITHONIA TYPE "DM 232-120-GEB".
3. REPLACE EXISTING INCANDESCENT FIXTURE WITH NEW 200 WATT A23 FIXTURE WITH GLOBE AND GUARD, APPLETON #VPOBW10G, MOUNTED ON CAST BOX.
4. ADD NEW 200 WATT A23 FIXTURE WITH GLOBE AND GUARD, APPLETON #VPOBW10G ON VPJB50 BOX.
5. REPLACE EXISTING DISCONNECT SWITCH WITH NEW HEAVY DUTY 200 AMPERE, 3 POLE FUSIBLE SWITCH AND RECONNECT TO FEEDER & NEW ELEVATOR CONTROLLER. REPLACE FEEDER AND GROUND WIRE. FUSE PER NEW ELEVATOR MOTOR REQUIREMENTS. FEEDER SHALL BE (4) #3 THHN AND (1) #6 THHN GND IN EXISTING 2" CONDUIT.
6. REPLACE EXISTING DISCONNECT SWITCH WITH NEW HEAVY DUTY 100 AMPERE, 3 POLE FUSIBLE SWITCH AND RECONNECT TO FEEDER & NEW ELEVATOR CONTROLLER. REPLACE FEEDER AND GROUND WIRE. FUSE PER NEW ELEVATOR MOTOR REQUIREMENTS. FEEDER SHALL BE (4) #3 THHN AND (1) #8 THHN GND IN EXISTING 1 ¼" CONDUIT.
7. DISCONNECT AND RECONNECT ELEVATOR RECALL CONTROL TO NEW ELEVATOR CONTROLLERS AND NEW FIRE ALARM PANEL.
8. REWORK NEW ELEVATOR WIRING BETWEEN CONTROLLER AND THE PUMP UNIT. REUSE OR REPLACE EXISTING CONDUIT AS REQUIRED.
9. UPGRADE ALL EXISTING ELECTRICAL WIRING BELOW 4'-0" TO WET LOCATION.

ELECTRICAL ALTERNATE E-1:

BASE BID HVAC WIRING IN APARTMENT UNITS:

FURNISH, INSTALL AND WIRE THE APARTMENT HEATING AND COOLING AS INDICATED IN THE CONTROL DIAGRAM AND AS SHOWN ON THE PLAN DRAWINGS INCLUDING THE FOLLOWING:

a). DISCONNECT EXISTING LIVING ROOM ELECTRIC BASEBOARD TO BE REPLACED BY OTHERS. SAVE WIRING AND RECONNECT NEW REPLACEMENT BASEBOARD USING EXISTING LINE VOLTAGE THERMOSTAT. PROVIDE CONTRACTOR FLUSH MOUNTED IN WALL ABOVE BASEBOARD AND ROUTE 208 VOLT POWER FEED FROM EXISTING THERMOSTAT THROUGH NORMALLY CLOSED RELAY CONTACTS, THEN TO BASEBOARD.

b). DISCONNECT EXISTING BEDROOM BASEBOARD ELECTRIC HEATER TO BE REMOVED BY OTHERS. REMOVE EXISTING LINE VOLTAGE THERMOSTAT AND TAP THIS BRANCH AHEAD OF LIVING ROOM THERMOSTAT. SAVE WIRING. CONNECT NEW PTAC UNIT, PROVIDE RELAY AND LOW VOLTAGE WIRING TO CONTACTOR AT LIVING ROOM BASEBOARD HEATER TO TURN-OFF HEATER WHEN PTAC UNIT IS IN COOLING MODE.

DEDUCT ALTERNATE E-1 HVAC WIRING IN APARTMENT UNITS:

a). PROVIDE DISCONNECTION AND RECONNECTION OF NEW LIVING ROOM BASEBOARD HEATER USING EXISTING WIRING AND THERMOSTAT HEATER. REMOVAL AND REPLACEMENT HEATER INSTALLATION BY OTHERS.

b). PROVIDE DISCONNECTIONS OF EXISTING AND RECONNECTION OF NEW BEDROOM BASEBOARD HEATER USING EXISTING WIRING AND THERMOSTAT. HEATER REMOVAL AND REPLACEMENT HEATER INSTALLATION BY OTHERS.

GENERAL NOTE:
SEE MECHANICAL DRAWING P2.0 FOR ADDITIONAL SUMP PUMP INFORMATION

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STATE OF OHIO
JAMES F. FORSYTHE
27134
REGISTERED
PROFESSIONAL ENGINEER

ENLARGED PLAN AND SERVICE DETAILS

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST
MASSILLON, OHIO 44646

KRRA JOB NO.	K5001-01
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E2.1

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KRRA@KARLROHRER.COM

PANEL "D" (EXISTING) TO BE REPLACED

SERVICE: 120/208 VOLTS 3 Ø

MFR:
TYPE:
BUS: 225A

MAIN BREAKER: MLO
LOCATION: TOP
SOURCE: MDP

LOCATION:
MOUNTING: FLUSH
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	B	C	BREAKER POLE	AMP	CKT. NO.	BUS A	B	C	CKT. NO.	BREAKER POLE	AMP	VOLT-AMPS A	B	C	BRANCH CIRCUIT
EXISTING				1	20	1	●			2	1	20				EXISTING
EXISTING				1	20	3		●		4	1	20				EXISTING
EXISTING				1	20	5			●	6	1	20				EXISTING
EXISTING				1	20	7	●			8	1	20				EXISTING
EXISTING				1	20	9		●		10	1	20				EXISTING
EXISTING				1	20	11			●	12	1	20				EXISTING
EXISTING				1	20	13	●			14	1	20				EXISTING
EXISTING				1	20	15		●		16	1	20				EXISTING
EXISTING				1	20	17			●	18	1	20				EXISTING
EXISTING				1	20	19	●			20	1	20				EXISTING
EXISTING				1	20	21		●		22	1	20				EXISTING
EXISTING				1	20	23			●	24	1	20				EXISTING
EXISTING				1	20	25	●			26	1	20				EXISTING
EXISTING				1	20	27		●		28	2	30				EXISTING
EXISTING				1	20	29			●	30						
				2	40	31	●			32	2	30				
						33		●		34						
				2	40	35			●	36	2	40				
						37	●			38						
				2	40	39		●		40	2	20				
						41			●	42						
TOTAL	0	0	0										0	0	0	

VOLT - AMP TOTAL		LOAD DIVERSITY		LINE AMPS - CONNECTED
BUS A:	0 VA	LIGHTING LOAD:	KVA	0
BUS B:	0 VA	HVAC LOAD:	KVA	
BUS C:	0 VA	RECEPTACLE LOAD:	KVA	DEMAND AMPS
TOTAL:	0 VA			

NOTE:
• INDICATES LOCKED-ON CIRCUIT BREAKER •• INDICATES GFI CIRCUIT BREAKER

PANEL "EM" (EXISTING) TO BE REPLACED

SERVICE: 120/208 VOLTS 3 Ø

MFR:
TYPE:
BUS: 225A

MAIN BREAKER: MLO
LOCATION: TOP
SOURCE: MDP

LOCATION:
MOUNTING: SURFACE
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	B	C	BREAKER POLE	AMP	CKT. NO.	BUS A	B	C	CKT. NO.	BREAKER POLE	AMP	VOLT-AMPS A	B	BRANCH CIRCUIT
EXISTING				1	20	1	●			2	1	20			EXISTING
EXISTING				1	20	3		●		4	1	20			EXISTING
EXISTING				1	20	5			●	6	1	20			EXISTING
EXISTING				1	20	7	●			8	1	20			EXISTING
EXISTING				1	20	9		●		10	1	20			EXISTING
EXISTING				2	30	11			●	12	1	20			EXISTING
						13	●			14	1	20			EXISTING
				2	30	15		●		16	2	20			EXISTING
						17			●	18					
SPACE				1	20	19	●			20	1	20			ELEV. SUMP PUMP
SPACE				1	20	21		●		22	1	20			ELEV. SUMP PUMP
SPACE				1	20	23			●	24	1	20			ELEVATOR SHAFT SMOKE DAMPER
TOTAL	0	0	0										0	0	

VOLT - AMP TOTAL		LOAD DIVERSITY		LINE AMPS - CONNECTED
BUS A:	0 VA	LIGHTING LOAD:	KVA	0
BUS B:	0 VA	HVAC LOAD:	KVA	
BUS C:	0 VA	RECEPTACLE LOAD:	KVA	DEMAND AMPS
TOTAL:	0 VA			

NOTE:
• INDICATES LOCKED-ON CIRCUIT BREAKER •• INDICATES GFI CIRCUIT BREAKER

PANEL "F" (EXISTING) TO BE REPLACED

SERVICE: 120/208 VOLTS 3Ø

MFR:
TYPE:
BUS: 225 A.

MAIN BREAKER: MLO
LOCATION: TOP
SOURCE: MDP

LOCATION:
MOUNTING: FLUSH
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	B	C	BREAKER POLE	AMP	CKT. NO.	BUS A	B	C	CKT. NO.	BREAKER POLE	AMP	VOLT-AMPS A	B	C	BRANCH CIRCUIT
EXISTING				1	20	1	■			2	1	20				EXISTING
EXISTING				1	20	3		■		4	1	20				EXISTING
EXISTING				1	20	5			■	6	1	20				EXISTING
EXISTING				1	20	7	■			8	1	20				EXISTING
EXISTING				1	20	9		■		10	1	20				EXISTING
EXISTING				1	20	11			■	12	1	20				EXISTING
EXISTING				1	20	13	■			14	1	20				EXISTING
EXISTING				1	20	15		■		16	2	40				LOUNGE AREA HEAT
EXISTING				1	20	17			■	18						
RADIANT HEAT				2	30	19	■			20	2	30				RADIANT HEAT
						21		■		22						
RADIANT HEAT				2	30	23			■	24	2	30				RADIANT HEAT
						25	■			26						
RADIANT HEAT				2	30	27		■		28	2	30				RADIANT HEAT
						29			■	30						
EXISTING				1	20	31	■			32	1	20				EXISTING
EXISTING				1	20	33		■		34	1	20				EXISTING
EXISTING				1	20	35			■	36	1	20				EXISTING
EXISTING				2	30	37	■			38	2	30				LOUNGE AREA HEAT
						39		■		40						
				1	20	41			■	42	1	20				
TOTAL																

VOLT – AMP TOTAL		LOAD DIVERSITY		LINE AMPS – CONNECTED
BUS A:	VA	LIGHTING:	KVA	
BUS B:	VA	RECEPTACLE:	KVA	LINE AMPS – DEMAND
BUS C:	VA	HVAC:	KVA	
TOTAL:	VA	TOTAL KVA DEMAND	KVA	

NOTE:

PANEL "K" (EXISTING) TO BE REPLACED

SERVICE: 120/208 VOLTS 3 Ø

MFR:
TYPE:
BUS: 225A

MAIN BREAKER: MLO
LOCATION: TOP
SOURCE: MDP

LOCATION:
MOUNTING: FLUSH
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	B	C	BREAKER POLE	AMP	CKT. NO.	BUS A	B	C	CKT. NO.	BREAKER POLE	AMP	VOLT-AMPS A	B	BRANCH CIRCUIT
WATER HEATER				1	20	1	●			2	1	20			REFRIGERATOR
SPARE				2	30	3		●		4	1	20			HOOD FANS
						5			●	6	2	40			RANGE
SPARE				1	20	7	●			8					
RANGE				2	40	9		●		10	1	20			EXISTING CKT.
						11			●	12	1	20			BLANK
TOTAL	0	0	0										0	0	

VOLT - AMP TOTAL		LOAD DIVERSITY		LINE AMPS - CONNECTED
BUS A:	0 VA	LIGHTING LOAD:	KVA	0
BUS B:	0 VA	HVAC LOAD:	KVA	
BUS C:	0 VA	RECEPTACLE LOAD:	KVA	DEMAND AMPS
TOTAL:	0 VA			

NOTE:
• INDICATES LOCKED-ON CIRCUIT BREAKER •• INDICATES GFI CIRCUIT BREAKER

PANEL "L" (EXISTING) TO BE REPLACED

SERVICE: 120/208 VOLTS 3ø

MFR:
TYPE:
BUS: 225 A.

MAIN BREAKER: MLO
LOCATION: TOP
SOURCE: MDP
FEEDER:

LOCATION:
MOUNTING: FLUSH
DWG. NO.:

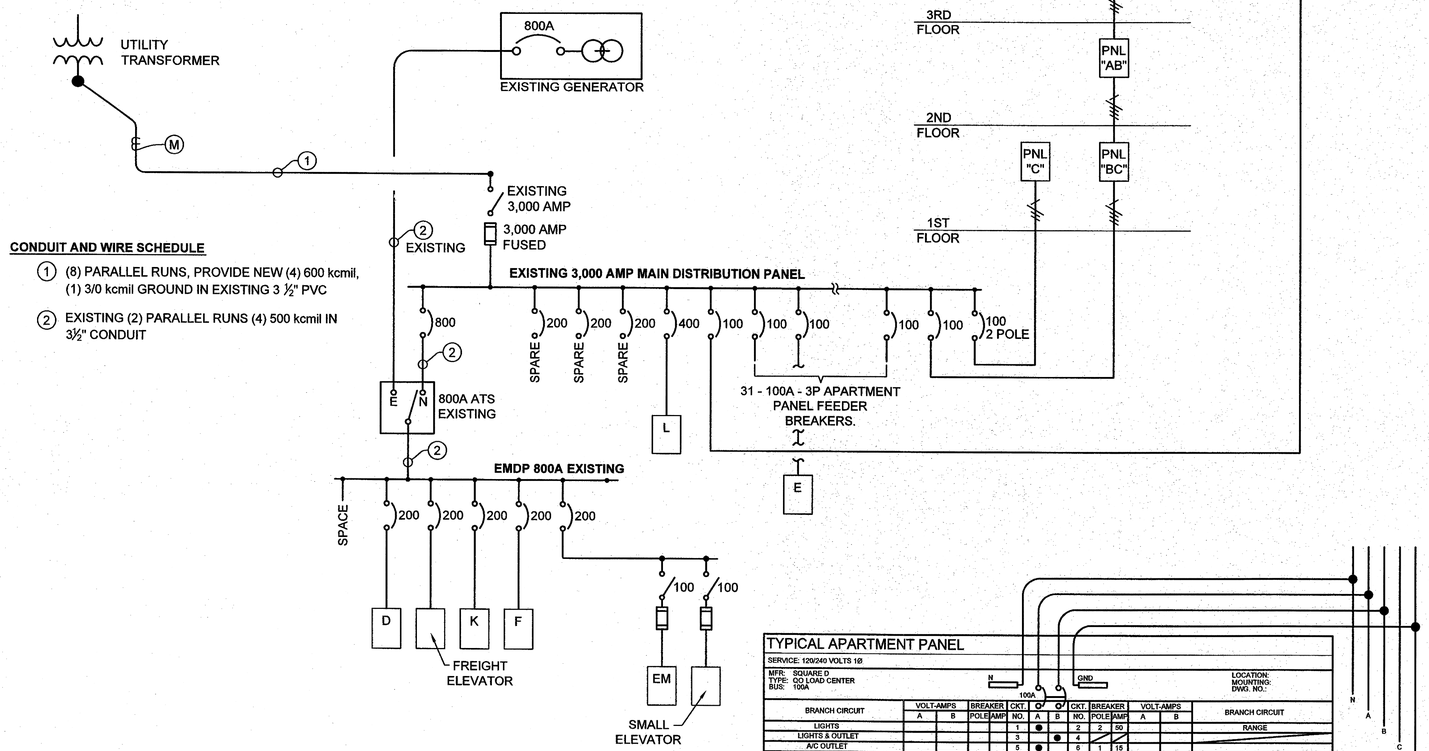
BRANCH CIRCUIT	VOLT-AMPS A	B	C	BREAKER POLE	AMP	CKT. NO.	BUS A	B	C	CKT. NO.	BREAKER POLE	AMP	VOLT-AMPS A	B	C	BRANCH CIRCUIT
EXISTING				1	20	1	■			2	1	20				EXISTING
EXISTING				1	20	3		■		4	1	20				EXISTING
EXISTING				1	20	5			■	6	1	20				EXISTING
EXISTING				1	20	7	■			8	1	20				EXISTING
EXISTING				1	20	9		■		10	1	20				EXISTING
EXISTING				1	20	11			■	12	1	20				EXISTING
EXISTING				1	20	13	■			14	1	20				EXISTING
EXISTING				1	20	15		■		16	1	20				EXISTING
EXISTING				1	20	17			■	18	1	20				EXISTING
EXISTING				1	20	19	■			20	1	20				EXISTING
EXISTING				1	20	21		■		22	1	20				EXISTING
EXISTING				1	20	23			■	24	1	20				EXISTING
EXISTING				1	20	25	■			26	1	20				EXISTING
EXISTING				1	20	27		■		28	1	20				EXISTING
RADIANT HEAT				2	30	29			■	30	1	20				EXISTING
						31	■			32	1	20				EXISTING
RADIANT HEAT				2	30	33		■		34	1	20				EXISTING
						35			■	36	1	20				EXISTING
				1	20	37	■			38	1	20				EXISTING
				1	20	39		■		40	1	20				EXISTING
				1	20	41			■	42	1	20				EXISTING
TOTAL																

VOLT – AMP TOTAL		LOAD DIVERSITY		LINE AMPS – CONNECTED
BUS A:	VA	LIGHTING:	KVA	
BUS B:	VA	RECEPTACLE:	KVA	LINE AMPS – DEMAND
BUS C:	VA	HVAC:	KVA	
TOTAL:	VA	TOTAL KVA DEMAND	KVA	

NOTE:

PANEL NOTES:

1. PANELS ARE FLUSH MOUNTED. CONTRACTOR SHALL VERIFY WITH NEW PANEL SUPPLIER THAT EXISTING RECESSED CABINET MAY BE REUSED WITH NEW INTERIOR. IF NOT, PROVIDE OPTIONAL METHOD.
2. APARTMENTS PANELS ARE FLUSH MOUNTED AND OVERSIZED TO ALLOW FOR RISER LUGS, REPLACE INTERIOR ONLY.



CONDUIT AND WIRE SCHEDULE

1. (8) PARALLEL RUNS, PROVIDE NEW (4) 600 kcmil, (1) 3/0 kcmil GROUND IN EXISTING 3 ½" PVC
2. EXISTING (2) PARALLEL RUNS (4) 500 kcmil IN 3½" CONDUIT

NEW & REVISED EXISTING ONE LINE DIAGRAM

SCALE: N.T.S.

MULTI-FAMILY DWELLING (LINCOLN APARTMENTS)

104 UNITS @ 504 S.F. (TYPES A & B)
1 UNIT @ 744 S.F. (TYPES C)

LOAD FOR EACH UNIT (A & B)	Va
504 S.F. @ 3 Va/S.F.	=1,512
RANGE @ 8,000 S.F.	=8,000
ELECTRIC HEAT	=4,900
SMALL APPLIANCE 2 @ 1,500	=3,000
NET LOAD	=17,412
NET LOAD (UNIT C)	=18,132

APARTMENT LOADS	Va
1 @ 18,132	=18,132
104 @ 17,412	=1,810,848
TOTAL	=1,828,980
DEMAND = 1,828,980 X .23	=420,665

BUILDING SERVICES	Va
LAUNDRY (10 DRYERS @ 5,000 Va X .05)	=25,000
KITCHEN (2 RANGES @ 12,000 Va)	=24,000
PUBLIC AREAS 11,850 S.F. @ 4.2 W/S.F.	=49,770
ELECTRIC HEAT	=25,000
ELEVATOR @ 20 H.P.	=28,000
ELEVATOR @ 25 H.P.	=35,200
APARTMENTS	=420,665
TOTAL	=607,565

SERVICE AMPS = 607,565 = 1,686 AMPS
208√3

ON EXISTING 3,000 AMP SERVICE

EXISTING PEAK DEMAND LAST (2) YEARS 320 Kw

TYPICAL APARTMENT PANEL

SERVICE: 120/240 VOLTS 1Ø

MFR: SQUARE D
TYPE: QO LOAD CENTER
BUS: 100A

N
100A
GND

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	B	BREAKER POLE	AMP	CKT. NO.	A	B	CKT. NO.	BREAKER POLE	AMP	VOLT-AMPS A	B	BRANCH CIRCUIT
LIGHTS					1	●		2	2	50			RANGE
LIGHTS & OUTLET					3		●	4					
A/C OUTLET					5	●		6	1	15			
OUTLETS					7		●	8	2	30			RADIANT HEAT / PTAC
APPLIANCE OUTLET					9	●		10					
DISPOSER					11		●	12					
SPACE					13	●		14	2	20			PTAC
SPACE					15		●	16					
TOTAL													

VOLT - AMP TOTAL		LOAD DIVERSITY		LINE AMPS - CONNECTED
BUS A:	VA	LIGHTING LOAD:	KVA	
BUS B:	VA	HVAC LOAD:	KVA	DEMAND AMPS
TOTAL:	VA	RECEPTACLE LOAD:	KVA	

NOTES:
1. THIS CIRCUIT ON 6th FLOOR APARTMENTS AND END APARTMENTS ON OTHER FLOORS.
2. ALL EXISTING APARTMENT PANELS TO BE REPLACED WITH THIS PANEL AND CIRCUITS RECONNECTED EXCEPT AS NOTED ABOVE.

N
A
B
C
GND

APARTMENT TYPE "C" ONLY

NOTICE

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DATES & REVISIONS	
OWNER REVIEW	01/10/2007
BUILDING DEPARTMENT	07/23/2007

JAMES F. FORSYTHE 27134 REGISTERED PROFESSIONAL ENGINEER STATE OF OHIO

LOAD CALC., ONE LINE DIAGRAM, AND PANEL SCHEDULES

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST MASSILLON, OHIO 44646

KRRA JOB NO. K5001-01
DRAWN BY mnd
CHECKED BY JFF

SHEET NO.
E3.0

ARCHITECTS • ENGINEERS • PLANNERS • SURVEYORS

KARL R. ROHRER ASSOCIATES INC.

OFFICES:
3810 Ridgewood Road
Akron, Ohio 44321

PH: 330-666-1127
FAX: 330-668-2788
KRRA@KARLROHRER.COM

PANEL H

SERVICE: 120/208 V., 3PH., 4W

MFR:
TYPE:
BUS:
ENCLOSURE:

MAIN BREAKER: MLO
LOCATION:
SOURCE:
FEEDER:

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
UNIT C	2450			2	30	1	●			2	2	30	2400			MULTI PURPOSE HEATER
		2450				3		●		4				2400		
UNIT C			1450	2	20	5			●	6	2	30			2400	MULTI PURPOSE HEATER
	1450					7	●			8			2400			
ARTS AND CRAFTS HEATERS		2500		2	30	9		●		10	2	30		2400		MULTI PURPOSE HEATER
			2500			11			●	12					2400	
M. REST ROOM HEATER	2500			2	30	13	●			14	2	30	1750			OFFICE/MGMT HEATERS
		2500				15		●		16				1750		
MTCE UNIT HEATER			2500	2	30	17			●	18	2	30			2500	W. RESTROOM HEATER
	2500					19	●			20			2500			
LAUNDRY UNIT HEATER		7500		2	30	21		●		22	2	30		2500		NORTH STAIRWELL HEATER
			2500			23			●	24					2500	
CORRIDOR HEATER	1500			2	20	25	●			26						
		1500				27		●		28						
						29			●	30						
						31	●			32						
						33		●		34						
						35			●	36						
						37	●			38						
						39		●		40						
						41			●	42						SPACE
TOTAL	10,400	11,450	8,900										9,050	9,050	9,050	

VOLT - AMP TOTAL		
BUS A:	19,400	VA
BUS B:	20,500	VA
BUS C:	18,700	VA
TOTAL:	58,600	VA

LOAD DIVERSITY	
LIGHTING:	KVA
RECEPTACLE:	KVA
HVAC:	KVA
TOTAL KVA DEMAND	KVA

LINE AMPS - MAX. Ø
171
LINE AMPS - DEMAND
163

NOTE:

PANEL H1A

SERVICE: 120/208 V., 3PH., 4W

MFR:
TYPE:
BUS:
ENCLOSURE:

MAIN BREAKER: MLO
LOCATION:
SOURCE:
FEEDER:

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
UNIT 132	2450			2	30	1	●			2	2	30	2450			UNIT 128
		2450				3		●		4				2450		
UNIT 133			2450	2	30	5			●	6	2	30			2450	UNIT 127
	2450					7	●			8			2450			
UNIT 134		2450		2	30	9		●		10	2	30		2450		UNIT 126
			2450			11			●	12					2450	
UNIT 135	2450			2	30	13	●			14	2	30	2450			UNIT 125
		2450				15		●		16				2450		
UNIT 136			2450	2	30	17			●	18	2	30			2500	SOUTH STAIR HEATER
	2450					19	●			20			2500			
HEATER TRASH COMPACTOR		2500		2	30	21		●		22	2	20		1500		SOUTH CORRIDOR HEATER
			2500			23			●	24					1500	
ENTRY HEATER	1500			2	20	25	●			26	2	20	1000			LOBBY HEATERS
		1500				27		●		28				1000		
MAIN VESTIBULE HEATER			2500	2	30	29			●	30						
	2500					31	●			32						
						33		●		34						
						35			●	36						
						37	●			38						
						39		●		40						
						41			●	42						SPACE
TOTAL	13,800	11,350	12,350										10,850	9,850	6,900	

VOLT - AMP TOTAL		
BUS A:	24,650	VA
BUS B:	21,200	VA
BUS C:	19,250	VA
TOTAL:	65,100	VA

LOAD DIVERSITY	
LIGHTING:	KVA
RECEPTACLE:	KVA
HVAC:	KVA
TOTAL KVA DEMAND	KVA

LINE AMPS - MAX. Ø
200
LINE AMPS - DEMAND
180.7

NOTE:

PANEL H-1

SERVICE: 120/208 VOLTS 3 Ø 4 WIRE

MFR: SQUARE D
TYPE: NQOD
BUS: 400A

MAIN BREAKER: MLO
LOCATION: TOP
SOURCE: PANEL HA

LOCATION: SURFACE
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
MULTI-PURPOSE HEATER	2400			2	30	1	●			2	2	30	2500			ARTS & CRAFTS
		2400				3		●		4				2500		
MULTI-PURPOSE HEATER			2400	2	30	5			●	6	2	30			2500	BATHROOM HEATER
	2400					7	●			8			2500			
MULTI-PURPOSE HEATER		2400		2	30	9		●		10	2	30		2500		UH MTCE
			2400			11			●	12					2500	
MANAGEMENT OFFICES	1750			2	30	13	●			14	2	30	2500			LAUNDRY HEATER
		1750				15		●		16				2500		
LOBBY HEATER			2500	2	30	17			●	18	2	20			1500	PASSAGE HEATER
	2500					19	●			20			1500			
LOBBY BASEBOARD		1500		2	30	21		●		22	2	30		1500		TRASH ROOM HEATER
			1500			23			●	24					2500	
HEATER NORTH ENTRY	1500			2	20	25	●			26	2	20	1500			HEATER SOUTH ENTRY
		1500				27		●		28				1500		
HEATER NORTH STAIR			2500	2	30	29			●	30	2	30			2500	HEATER SOUTH STAIR
	2500					31	●			32			2500			
SUITE 115		2400		2	30	33		●		34	2	30		2500		RESTROOM HEATER
			2400			35			●	36					2500	
LOUNGE 5 & 6	2800			2	30	37	●			38	2	30	4200			LOUNGE 2, 3 & 4
		2800				39		●		40				4200		
			2800	1	20	41			●	42	1	20			4200	SPACE
TOTAL	13,050	9,550	11,300										13,000	14,000	14,000	

VOLT - AMP TOTAL		
BUS A:	28,050	VA
BUS B:	23,550	VA
BUS C:	25,300	VA
TOTAL:	74,900	VA

LOAD DIVERSITY	
LIGHTING LOAD:	KVA
HVAC LOAD:	KVA
RECEPTACLE LOAD:	KVA

LINE AMPS - CONNECTED
217 MAX.Ø
DEMAND AMPS
CONNECTED 208A

NOTE:

• INDICATES LOCKED-ON CIRCUIT BREAKER

•• INDICATES GFI CIRCUIT BREAKER

PANEL H2

SERVICE: 120/208 V., 3PH., 4W

MFR: ITE SIEMENS
TYPE:
BUS: 400 AMP
ENCLOSURE: NEMA 1

MAIN BREAKER: MLO
LOCATION:
SOURCE: PANEL "MH"
FEEDER:

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
UNIT A 203	2450			2	30	1	●			2	2	30	2450			UNIT B 213
		2450				4		●		4				2450		
UNIT A 204			2450	2	30	5			●	6	2	30			2450	UNIT A 214
	2450					7	●			8			2450			
UNIT A 205		2450		2	30	9		●		10	2	30		2450		UNIT A 216
			2450			11			●	12					2450	
END UNIT A 206	2450			2	30	13	●			14	2	30	2450			UNIT A 217
		2450				15		●		16				2450		
END UNIT A 208			2450	2	30	17			●	18	2	30			2450	END UNIT A 217
	2450					19	●			20			2450			
UNIT A 209		2450		2	30	21		●		22	2	30		2450		END UNIT B 224
			2450			23			●	24					2450	
UNIT A 210	2450			2	30	25	●			26	2	30	2450			UNIT A 223
		2450				27		●		28				2450		
UNIT A 211			2450	2	30	29			●	30	2	30			2450	UNIT A 222
	2450					31	●			32			2450			
END UNIT B 212		2450		2	30	33		●		34	2	30		2450		UNIT A 221
			2450			35			●	36					2450	
LOUNGE HEATERS	1500			2	30	37	●			38	2	30	2450			END UNIT A 220
		1500				39		●		40				2450		
SPACE						41			●	42						SPACE
TOTAL	16,200	16,200	14,700										17,150	17,150	14,700	

VOLT - AMP TOTAL		
BUS A:	--,---	VA
BUS B:	--,---	VA
BUS C:	--,---	VA
TOTAL:	--,---	VA

LOAD DIVERSITY	
LIGHTING:	KVA
RECEPTACLE:	KVA
HVAC:	KVA
TOTAL KVA DEMAND	KVA

LINE AMPS - MAX. Ø
278
LINE AMPS - DEMAND
267

NOTE:

PANEL H3

SERVICE: 120/208 V., 3PH., 4W

MFR:
TYPE:
BUS:
ENCLOSURE:

MAIN BREAKER: MLO
LOCATION:
SOURCE:
FEEDER:

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
UNIT A 303	2450			2	30	1	●			2	2	30	2450			UNIT B 313
		2450				3		●		4				2450		
UNIT A 304			2450	2	30	5			●	6	2	30			2450	UNIT A 314
	2450					7	●			8			2450			
UNIT A 305		2450		2	30	9		●		10	2	30		2450		UNIT A 315
			2450			11			●	12					2450	
END UNIT A 306	2450			2	30	13	●			14	2	30	2450			UNIT A 316
		2450				15		●		16				2450		
END UNIT A 308			2450	2	30	17			●	18	2	30			2450	END UNIT A 317
	2450					19	●			20			2450			
UNIT A 309		2450		2	30	21		●		22	2	30		2450		END UNIT A 320
			2450			23			●	24					2450	
UNIT A 310	2450			2	30	25	●			26	2	30	2450			UNIT A 321
		2450				27		●		28				2450		
UNIT A 311			2450	2	30	29			●	30	2	30			2450	UNIT A 322
	2450					31	●			32			2450			
END UNIT B 312		2450		2	30	33		●		34	2	30		2450		UNIT A 323
			2450			35			●	36					2450	
LOUNGE HEATERS	1500			2	30	37	●			38	2	30	2450			END UNIT B 324
		1500				39		●		40				2450		
SPACE						41			●	42						SPACE
TOTAL	--,---	--,---	--,---										--,---	--,---	--,---	

VOLT - AMP TOTAL		
BUS A:	--,---	VA
BUS B:	--,---	VA
BUS C:	--,---	VA
TOTAL:	--,---	VA

LOAD DIVERSITY	
LIGHTING:	KVA
RECEPTACLE:	KVA
HVAC:	KVA
TOTAL KVA DEMAND	KVA

LINE AMPS - MAX. Ø
210
LINE AMPS - DEMAND
190

NOTE:

PANEL H4

SERVICE: 120/208 V., 3PH., 4W

MFR:
TYPE:
BUS:
ENCLOSURE:

MAIN BREAKER: MLO
LOCATION:
SOURCE:
FEEDER:

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
UNIT A 403	2400			2	30	1	●			2	2	30	2450			UNIT A 415
		2450				3		●		4				2450		
UNIT A 404			2450	2	30	5			●	6	2	30			2450	UNIT A 414
	2450					7	●			8			2450			
UNIT A 405		2450		2	30	9		●		10	2	30		2450		UNIT B 413
			2450			11			●	12					2450	
END UNIT A 406	2450			2	30	13	●			14	2	30	2450			END UNIT A 417
		2450				15		●		16				2450		
END UNIT A 408			2450	2	30	17			●	18	2	30			2450	UNIT A 416
	2450					19	●			20			2450			
UNIT A 409		2450		2	30	21		●		22	2	30		2450		END UNIT A 420
			2450			23			●	24					2450	
UNIT A 410	2450			2	30	25	●			26	2	30	2450			UNIT A 421
		2450				27		●		28				2450		
UNIT A 411			2450	2	30	29			●	30	2	30			2450	UNIT A 422
	2450					31	●			32			2450			
END UNIT B 412		2450		2	30	33		●		34	2	30		2450		UNIT A 423
			2450			35			●	36					2450	
LOUNGE HEATERS	1500			2	30	37	●			38	2	30	2450			END UNIT B 422
		1500				39		●		40				2450		
SPACE						41			●	42						SPACE
TOTAL	--,---	--,---	--,---										--,---	--,---	--,---	

VOLT - AMP TOTAL		
BUS A:	--,---	VA
BUS B:	--,---	VA
BUS C:	--,---	VA
TOTAL:	--,---	VA

LOAD DIVERSITY	
LIGHTING:	KVA
RECEPTACLE:	KVA
HVAC:	KVA
TOTAL KVA DEMAND	KVA

LINE AMPS - MAX. Ø
210
LINE AMPS - DEMAND
190

NOTE:

PANEL H5

SERVICE: 120/208 V., 3PH., 4W

MFR:
TYPE:
BUS:
ENCLOSURE:

MAIN BREAKER: MLO
LOCATION:
SOURCE:
FEEDER:

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
UNIT A 503	2450			2	30	1	●			2	2	30	2450			UNIT B 513
		2450				3		●		4				2450		
UNIT A 504			2450	2	30	5			●	6	2	30			2250	UNIT A 514
	2450					7	●			8			2450			
UNIT A 505		2400		2	30	9		●		10	2	30		2450		UNIT A 515
			2450			11			●	12					2450	
END UNIT A 506	2450			2	30	13	●			14	2	30	2450			UNIT A 516
		2450				15		●		16				2450		
END UNIT A 508			2450	2	30	17			●	18	2	30			2450	END UNIT A 517
	2450					19	●			20			2450			
UNIT A 509		2450		2	30	21		●		22	2	30		2450		END UNIT A 520
			2450			23			●	24					2450	
UNIT A 510	2450			2	30	25	●			26	2	30	2450			UNIT A 521
		2450				27		●		28				2450		
UNIT A 511			2450	2	30	29			●	30	2	30			2450	UNIT A 522
	2450					31	●			32			2450			
END UNIT B 512		2450		2	30	33		●		34	2	30		2450		UNIT A 523
			2450			35			●	36					2450	
LOUNGE HEATERS	1500			2	30	37	●			38	2	30	2450			END UNIT B 524
		1500				39		●		40				2450		
SPACE						41			●	42						SPACE
TOTAL	--,---	--,---	--,---										--,---	--,---	--,---	

VOLT - AMP TOTAL		
BUS A:	--,---	VA
BUS B:	--,---	VA
BUS C:	--,---	VA
TOTAL:	--,---	VA

LOAD DIVERSITY	
LIGHTING:	KVA
RECEPTACLE:	KVA
HVAC:	KVA
TOTAL KVA DEMAND	KVA

LINE AMPS - MAX. Ø
210
LINE AMPS - DEMAND
190

NOTE:

PANEL H6

SERVICE: 120/208 V., 3PH., 4W

MFR:
TYPE:
BUS:
ENCLOSURE:

MAIN BREAKER: MLO
LOCATION:
SOURCE:
FEEDER:

LOCATION:
MOUNTING:
DWG. NO.:

BRANCH CIRCUIT	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BREAKER POLE	BREAKER AMP	CKT. NO.	BUS A	BUS B	BUS C	CKT. NO.	BREAKER POLE	BREAKER AMP	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	BRANCH CIRCUIT
UNIT A 503	2450			2	30	1	●			2	2	30	2450			UNIT B 613
		2450				3		●		4				2450		
UNIT A 604			2450	2	30	5			●	6	2	30			2450	UNIT A 614
	2450					7	●			8			2450			
UNIT A 605		2450		2	30	9		●		10	2	30		2450		UNIT A 615
			2450			11			●	12					2450	
END UNIT A 606	2450			2	30	13	●			14	2	30	2450			UNIT A 616
		2450				15		●		16				2450		
END UNIT A 608			2450	2	30	17			●	18	2	30			2450	END UNIT A 617
	2450					19	●			20			2450			
UNIT A 609		2450		2	30	21		●		22	2	30		2450		END UNIT A 620
			2450			23			●	24					2450	
UNIT A 610	2450			2	30	25	●			26	2	30	2450			UNIT A 621
		2450				27		●		28				2450		
UNIT A 611			2450	2	30	29			●	30	2	30			2450	UNIT A 622
	2450					31	●			32			2450			
END UNIT B 612		2450		2	30	33		●		34	2	30		2450		UNIT A 623
			2450			35			●	36					2450	
LOUNGE HEATERS	1500			2	30	37	●			38	2	30	2450			END UNIT B 624
		1500				39		●		40				2450		
SPACE						41			●	42						SPACE
TOTAL	--,---	--,---	--,---										--,---	--,---	--,---	

VOLT - AMP TOTAL		
BUS A:	--,---	VA
BUS B:	--,---	VA
BUS C:	--,---	VA
TOTAL:	--,---	VA

LOAD DIVERSITY	
LIGHTING:	KVA
RECEPTACLE:	KVA
HVAC:	KVA
TOTAL KVA DEMAND	KVA

LINE AMPS - MAX. Ø
210
LINE AMPS - DEMAND
190

NOTE:

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BUILDING DEPARTMENT	07/23/2007

PANEL SCHEDULES (CONTINUED)

STARK METROPOLITAN HOUSING AUTHORITY
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E3.1

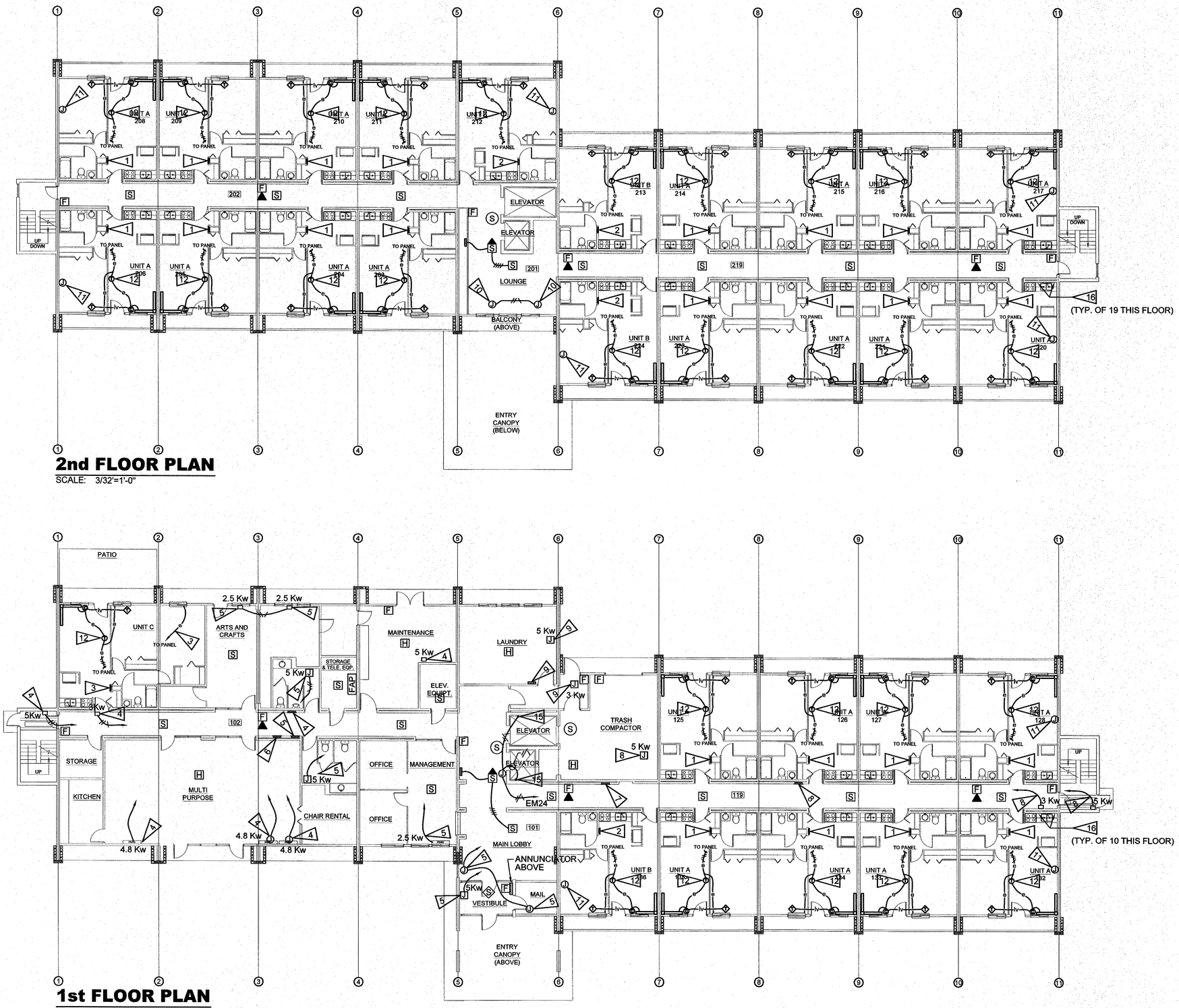
STATE OF OHIO
JAMES F. FORSYTHE
27134
REGISTERED
PROFESSIONAL ENGINEER

ARCHITECTS • ENGINEERS • PLANNERS • SURVEYORS

KARL R. ROHRER ASSOCIATES INC.

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2nd FLOOR PLAN

SCALE: 3/32'=1'-0"

1st FLOOR PLAN

SCALE: 3/32'=1'-0"

1. EXISTING UNIT "A" PANEL BOARD.

   DISCONNECT AND REMOVE PANEL BOARD AND INSTALL NEW APARTMENT PANEL PER DETAIL. RECONNECT EXISTING FEEDER AND BRANCH CIRCUITS AS SHOWN. SAVE ALL EXISTING CIRCUIT BREAKERS AND RETURN TO OWNER.

2. EXISTING UNIT "B" PANEL BOARD.

   DISCONNECT AND REMOVE PANEL BOARD AND INSTALL NEW APARTMENT PANEL PER DETAIL. RECONNECT EXISTING FEEDER AND BRANCH CIRCUITS AS SHOWN. SAVE ALL EXISTING CIRCUIT BREAKERS AND RETURN TO OWNER.

3. EXISTING UNIT "C" PANEL BOARD.

   DISCONNECT AND REMOVE PANEL BOARD AND INSTALL NEW APARTMENT PANEL PER DETAIL. RECONNECT EXISTING FEEDER AND BRANCH CIRCUITS AS SHOWN. SAVE ALL EXISTING CIRCUIT BREAKERS AND RETURN TO OWNER.

4. EXISTING PANEL "D" AND HEATING/COOLING UNITS FED FROM PANEL. REPLACE PANEL. SEE DWG. E3.0

5. EXISTING PANEL "F" AND HEATING/COOLING UNITS FED FROM PANEL. REPLACE PANEL. SEE DWG. E3.0

6. EXISTING PANEL "K". REPLACE PANEL. SEE DWG. E3.0

7. EXISTING PANEL "EM". REPLACE WITH NEW FLUSH MOUNTED 24 CIRCUIT, 100 AMP MAIN LUG PANEL AND RECONNECT EXISTING CIRCUITS. ADD ELEVATOR SUMP PUMPS.

8. EXISTING PANEL "E" AND HEATING/COOLING UNITS FED FROM PANEL. REPLACE PANEL. SEE DWG. E3.0

9. EXISTING PANEL "L" AND HEATING/COOLING UNITS FED FROM PANEL. REPLACE PANEL. SEE DWG. E3.0

10. LOUNGE AREA ELECTRIC BASEBOARD HEATERS REPLACED WITH (2) @ 1.5 Kw EACH ON FLOORS 2 THROUGH 6. EXISTING HEATERS ON FLOORS 2, 3, AND 4 ARE PRESENTLY WIRED TO A 40 AMP (2) POLE CIRCUIT 16,18 IN PANEL "F". REPLACE BREAKER WITH 50 AMP (2) POLE AND UPGRADE FEEDER TO #6 THHN. FLOORS 5 AND 6 ARE PRESENTLY WIRED TO A 30 AMP (2) POLE CIRCUIT 38,40 IN PANEL "F". REPLACE BREAKER WITH 40 AMP (2) POLE AND UPGRADE FEEDER TO #8 THHN.

11. DISCONNECT SIDE WALL HEATER IN END UNITS. CUT & REMOVE ALL ACCESSABLE WIRING AT UNIT & PANEL, ABANDON WIRING IN WALLS, PATCH WALL AT UNIT.

12. REWORK EXISTING THERMOSTATS AS DETAILED ON SHEET E4.1, REPLACING ONE TO CONTROL THE NEW LIVING ROOM BASEBOARDS AND REMOVING THE OTHER ONE TO ALLOW FOR DIRECT FEED TO THE NEW PTAC UNITS. ELECTRICAL CONTRACTOR SHALL WIRE NEW THERMOSTAT & CONTROLS, DISCONNECT AND REMOVE OLD THERMOSTATS, ANY UNUSED BOXES, AND REPAIR PAINT/WALL DAMAGE. (TYPICAL ALL UNITS) SEE DWG. E4.1 FOR SCHEMATIC AND SYMBOLS. SEE DWG. E2.1 FOR ELECTRICAL ALTERNATE E-1.

13. APARTMENT BEDROOMS EXTERIOR WALL. ONE DUPLEX RECEPTACLE SHALL BE RELOCATED AS FAR AS NECESSARY TO CLEAR AREA FOR WALL RECONSTRUCTION REQUIRED FOR PTAC INSTALLATION. SEE ARCHITECTURAL DRAWINGS.

14. GENERAL NOTE, ALL PLAN DRAWINGS, ALL HEATING CIRCUIT WIRING SHALL BE #10 THHN UNLESS NOTED OTHERWISE.

15. 120 VOLT UP IN SHAFT TO ROOF TOP SMOKE RELIEF DAMPER.

16. REPLACE ABOVE COUNTER (2) RECEPTACLES WITH (2) - 20 AMP 120 VOLT GFCI RECEPTACLES.

GENERAL NOTE:
SEE DRAWING E2.1 FOR ELECTRICAL ALTERNATE E-1.

ELECTRICAL LEGEND

(SEE DRAWING E4.1 SCHEMATIC)

- (T) NEW LV THERMOSTAT FOR PTAC UNIT.
- (T) LINE VOLTAGE THERNOSTAT FOR BASEBOARD
- (C) CONTACTOR TO CONTROL BASEBOARD (LOCKOUT WHEN COOLING)
- [T] 208/24 VOLT TRANSFORMER

FIRE ALARM LEGEND

(SEE DRAWING E4.2 RISER)

- [F] NEW FIRE ALARM MANUAL PULL STATION TO REPLACE EXISTING
- [F] NEW FIRE ALARM HORN/STROBE SIGNAL DEVICE TO REPLACE EXISTING
- (S) NEW SMOKE DETECTOR TO REPLACE EXISTING (ELEVATOR RECALL)
- [H] NEW HEAT DETECTOR TO REPLACE EXISTING
- [S] NEW SMOKE DETECTOR TO REPLACE EXISTING (NOT ELEVATOR RECALL)
- ◇S DAMPER CONTROL SMOKE DETECTOR (EXISTING)
- ▲S NEW ADDRESSABLE SMOKE DETECTOR (ADDED)
- [FAP] FIRE ALARM PANEL & ELEVATOR CONTROL TO BE REPLACED.
- [ANN] ANNUNCIATOR PANEL TO BE REPLACED.

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STATE OF OHIO
JAMES F. FORSYTHE
27134
REGISTERED
PROFESSIONAL ENGINEER

1st & 2nd FLOOR PLANS

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
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MASSILLON, OHIO 44646

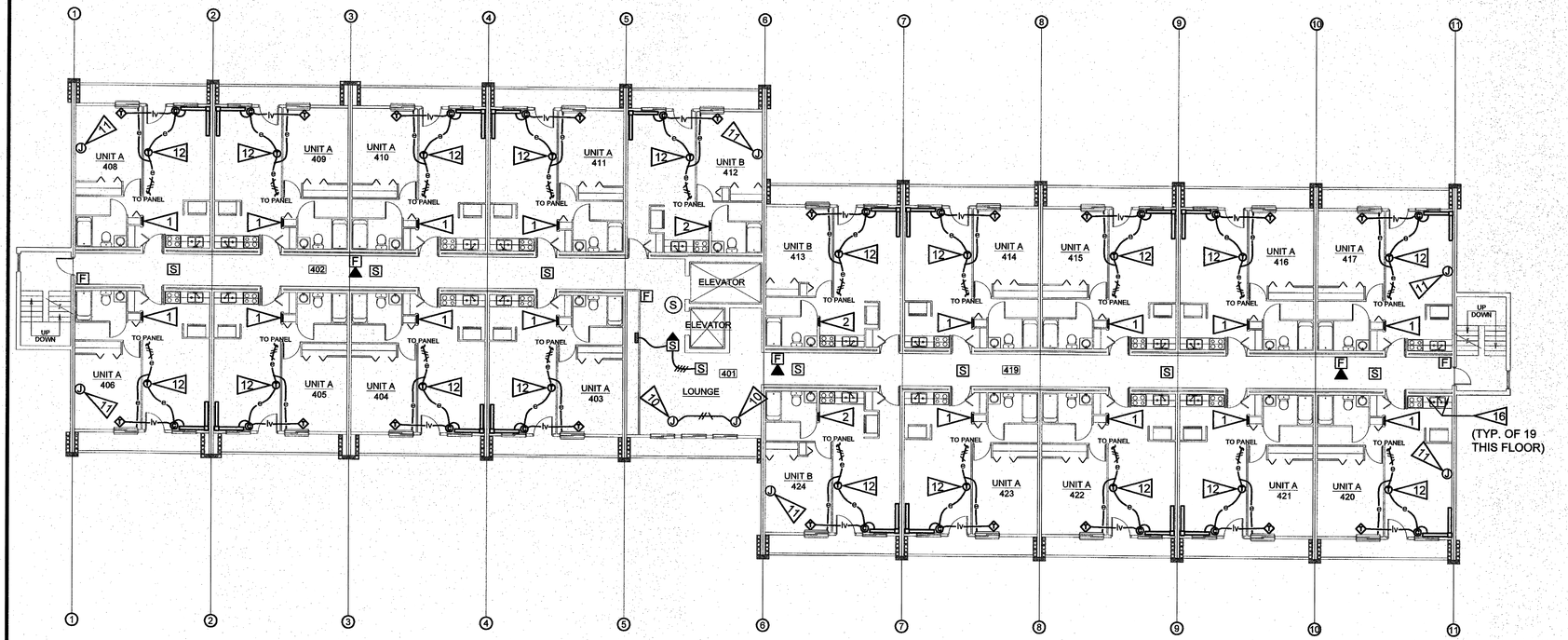
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E4.0

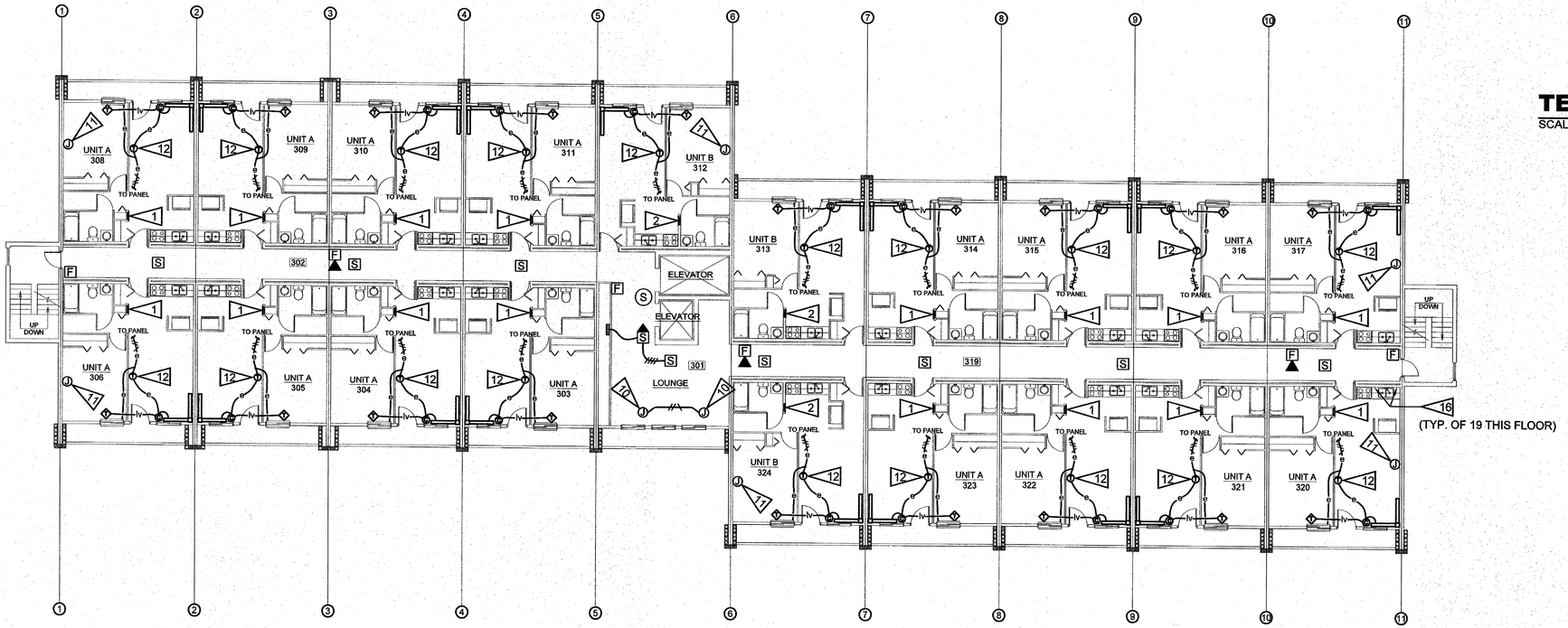
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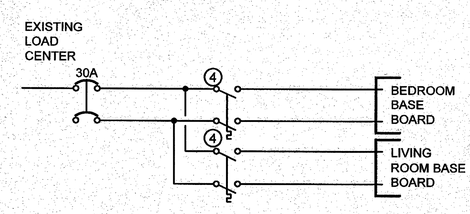
4th FLOOR PLAN

SCALE: 3/32'=1'-0"



3rd FLOOR PLAN

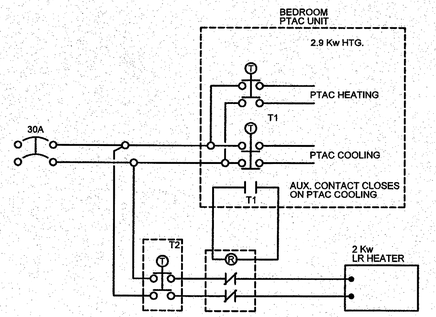
SCALE: 3/32'=1'-0"



EXISTING WIRING APARTMENT HEATING

SCALE: N.T.S.

④ EXISTING ROOM THERMOSTATS



R - SQUARE D CONTROL CONTACTOR CATALOG #DPA14-V14 WITH (2) N.O. AND (2) N.C. CONTACTS AND 24 VOLT COIL IN 6"x12"x4 ½" SCREW COVER FLUSH ENCLOSURE WALL MOUNTED ABOVE BASEBOARD AT CEILING. PLAN SYMBOL (C)

T1 - LOW VOLTAGE THERMOSTAT FOR PTAC CONTROL FURNISHED WITH PTAC UNIT WITH AUXILARY CONTACT N.O. TO FEED R COIL TO BLOCK HEATING BASE BOARD FEEDER WHEN PTAC IS COOLING. PLAN SYMBOL (T)

T2 - LINE VOLTAGE THERMOSTAT TO CONTROL LIVING ROOM HEATER. PLAN SYMBOL (T)

TEMPERATURE CONTROL SCHEMATIC

SCALE: N.T.S.

(SEE DRAWING E4.0 LEGEND)

(SEE DRAWING E2.1 FOR ELECTRICAL ALTERNATE E-1)

GENERAL NOTE:

SEE DRAWING E4.0 FOR FIRE ALARM LEGEND

◁ **REFERENCE NOTES** - SEE DRAWINGS E2.0 AND E4.0

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STATE OF OHIO — JAMES F. FORSYTHE 27134 REGISTERED PROFESSIONAL ENGINEER

3rd & 4th FLOOR PLANS & WIRING DETAILS

STARK METROPOLITAN HOUSING AUTHORITY

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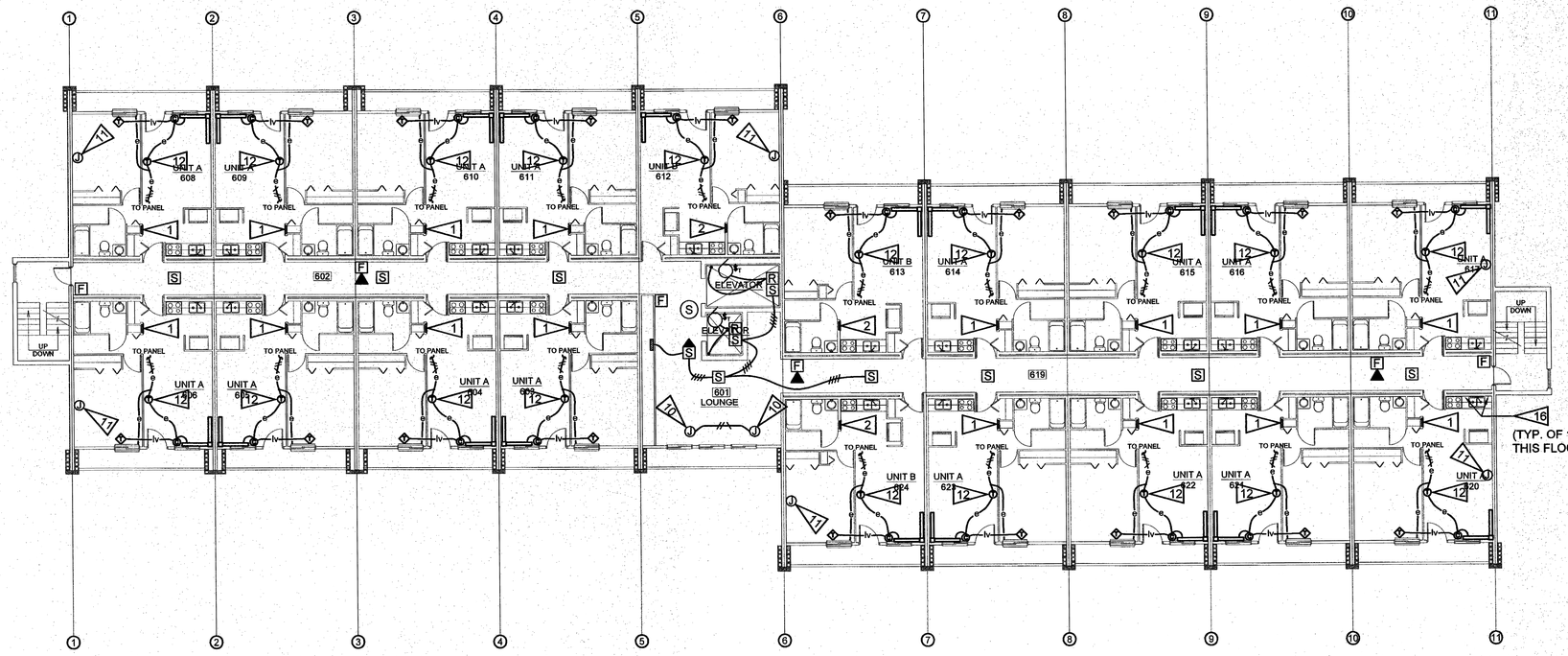
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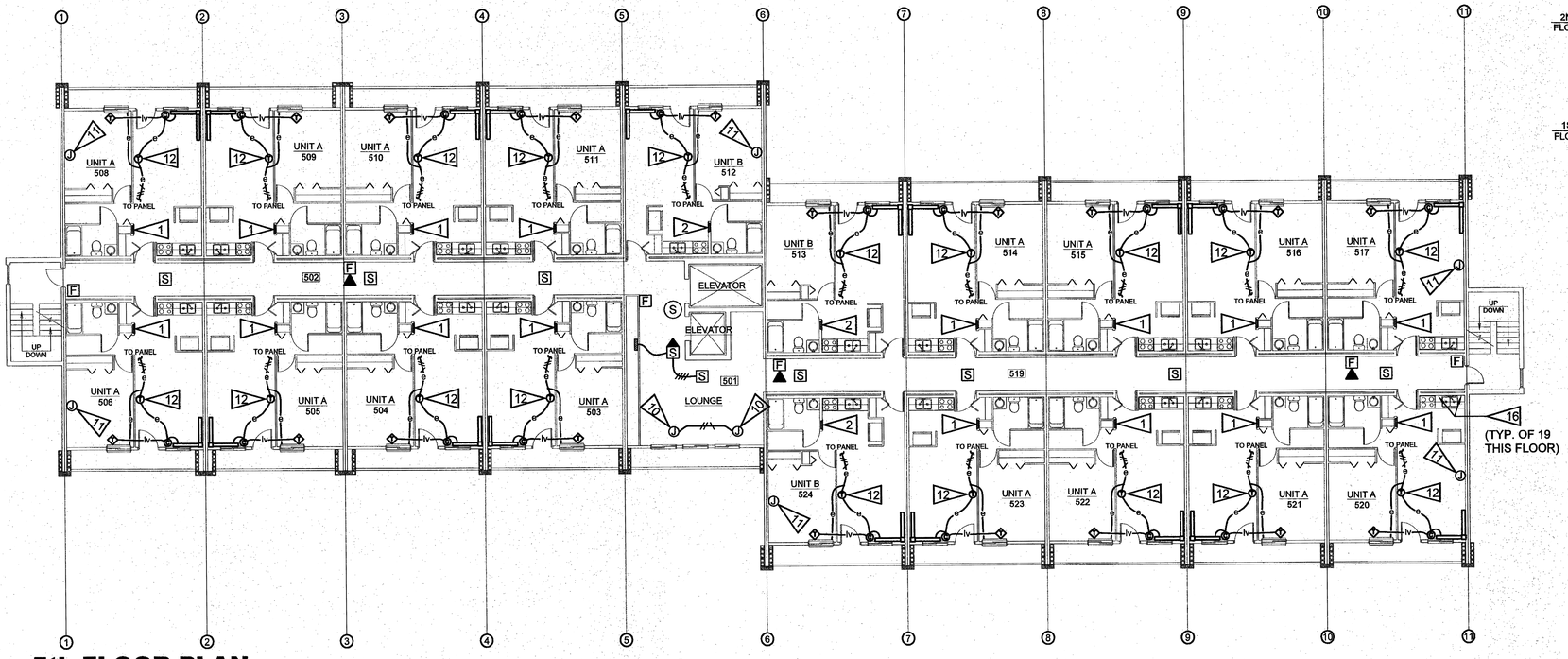
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6th FLOOR PLAN

SCALE: 3/32'=1'-0"



5th FLOOR PLAN

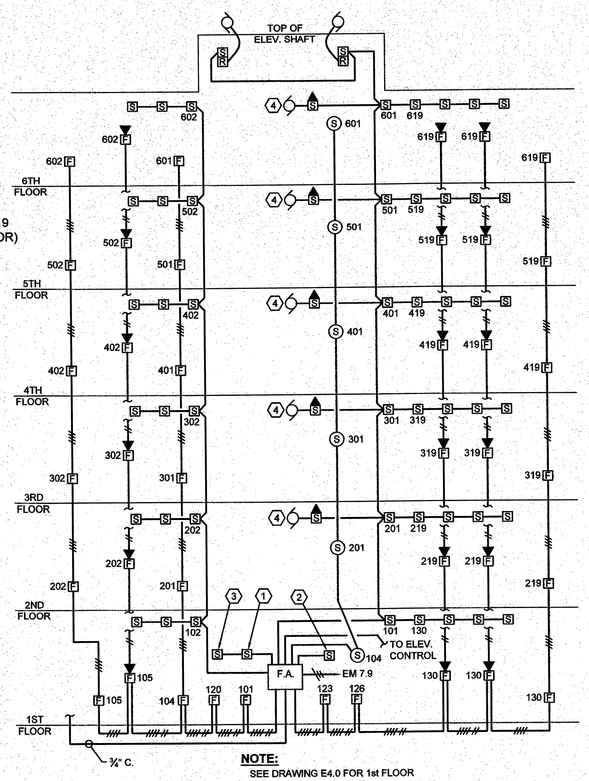
SCALE: 3/32'=1'-0"

GENERAL NOTE:

SEE DRAWING E4.0 FOR FIRE ALARM LEGEND

SEE DRAWING E2.1 FOR ELECTRICAL ALTERNATE E-1.

REFERENCE NOTES - SEE DRAWINGS E2.0 AND E4.0



NOTE:
SEE DRAWING E4.0 FOR 1st FLOOR FIRE ALARM EQUIPMENT

CODED NOTES:

1. AT MAIN FIRE ALARM PANEL
2. IN ELEVATOR MACHINE ROOM
3. AT ANNUNCIATOR PANEL
4. EXISTING ELEVATOR LOBBY SMOKE CONTROL DAMPER AND SMOKE DETECTOR CONTROL. VERIFY COMPATIBILITY WITH NEW F.A. SYSTEM.

LEGEND

- F.A. — NEW DIGITAL FIRE ALARM PANEL TO REPLACE EXISTING. RECONNECT ELEVATOR RECALL AND "OFF-SITE" MONITORING SYSTEMS.
- ANN — NEW REMOTE FIRE ALARM ANNUNCIATOR ADD OR REPLACE EXISTING AS NOTED
- F — NEW FIRE ALARM MANUAL PULL STATION TO REPLACE EXISTING
- F — NEW FIRE ALARM HORN/STROBE SIGNAL DEVICE TO REPLACE EXISTING
- S — NEW ELEVATOR RECALL SMOKE DETECTOR TO REPLACE EXISTING
- S — NEW AREA SMOKE DETECTOR TO REPLACE EXISTING
- H — NEW AREA HEAT DETECTOR TO REPLACE EXISTING
- S — DAMPER CONTROL SMOKE DETECTOR (EXISTING)
- SR — NEW ELEVATOR SHAFT SMOKE DETECTOR AND CONTROL RELAY TO ACTIVATE ROOF TOP SMOKE RELIEF DAMPER. ONE IN EACH ELEVATOR SHAFT. CONNECT TO NEW ADDRESSABLE SYSTEM. PROVIDE 120 VOLT CIRCUIT FOR DAMPERS ROUTED IN SHAFT DOWN TO FIRST FLOOR. PROVIDE 15 AMP, 120 VOLT TOGGLE TYPE DISCONNECT AT EACH DAMPER MOTOR
- NEW SMOKE RELIEF DAMPER

FIRE ALARM RISER

SCALE: NONE

NOTICE

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DATES & REVISIONS	
OWNER REVIEW	01/10/2007
BUILDING DEPARTMENT	07/23/2007

STATE OF OHIO
JAMES F. FORSYTHE
27134
REGISTERED
PROFESSIONAL ENGINEER

5th & 6th FLOOR PLANS

STARK METROPOLITAN HOUSING AUTHORITY
LINCOLN APTS. REMODELING & SITE RENOVATIONS
815 LINCOLNWAY EAST
MASSILLON, OHIO 44646

KRRA JOB NO.	K5001-01
DRAWN BY	MND
CHECKED BY	JFF

SHEET NO.
E4.2

ARCHITECTS • ENGINEERS • PLANNERS • SURVEYORS

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