Attachment A -

Contract Drawings



D

ABV

AFF

ACP

ACT

ADJ

AB ARCH

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BACKSPL

BSMT

BTWN

BLK

BLKG

BD

BO BOT

BOC

BRK

BLDG

BUR

CAB

CPT

CB

CL

СТ

CEM

CER

COL

COMP

CONC

CMU

CONT

CONTR

CORR

CJ

CS

ALUM

ABOVE ABOVE FINISHED FLOOR ACOUSTIC CEILING PANEL ACOUSTIC CEILING TILE ADJACENT ALUMINUM ANCHOR BOLT ARCHITECT(URAL) AT
BACKSPLASH BASEMENT BETWEEN BLOCK BLOCKING BOARD BOTTOM OF BOTTOM OF BOTTOM OF CURB BRICK BUILDING BUILT UP ROOFING
CABINET CARPET CATCH BASIN CEMENT CENTER LINE CERAMIC CERAMIC TILE COLUMN COMPOSITE/COMPOSITION CONCRETE CONCRETE MASONRY UNIT CONTINUOUS CONTRACT(OR) CONTROL JOINT CORRIDOR COURSE

DETAIL DIAMETER DIMENSION DISHWASHER DOOR DOWN DOWNSPOUT DRAWING
EACH ELECTRIC WATER COOLER ELECTRIC(AL) ELEVATION EQUAL ESTIMATED EXHAUST EXISTING EXISTING EXISTING TO REMAIN EXPANSION JOINT EXTERIOR
FACE OF FIBER CEMENT PANEL FIELD FINISH(ED) FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE RATING FLAME RETARDENT RATING FLOOR FLOOR FLOOR DRAIN FRAME FREEZER FURRING
GALVANIZED GAUGE

DTL

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FIN

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FEC

FRTG

FRT

FLSG

FLR

FD

FR

FRZ

FUR

GALV

GA

GC GL GYP GWB	GENERAL CONTRACTOR GLASS GYPSUM GYPSUM WALL BOARD	oc opng ophd orig od
HDW HDWD HT HC HM HOR	HARDWARE HARDWOOD HEIGHT HOLLOW CORE HOLLOW METAL HORIZONTAL	PTD PR PNL PERF PLSTR
id Insul Int	INSIDE DIAMETER INSULATION INTERIOR	plam Pl Plywd Pt
JT JST	JOINT JOIST	QT
LAM LT LVR LVP	LAMINATED LIGHT LOUVER LUXURY VINYL PLANK	R RWC RECP REF REFRB REINE
MANUF MRBL MSNRY MO MAT MECH MTL	MANUFACTURE(R) MARBLE MASONRY MASONRY OPENING MATERIAL MECHANICAL METAL	RELOC REM REQD RD RF MEM RO RCB
MR MTD	MOISTURE RESISTANT MOUNTED	SCHED SI
NEC NRC NIC NTS NO	NECESSARY NOISE REDUCTION COEFFICIENT NOT IN CONTRACT NOT TO SCALE NUMBER	SL & BR SHT SLF SVF SIM

ON CENTER OPENING OPPOSITE HAND ORIGINAL

PAINTED PAIR PANEL PERFORATED PLASTER PLASTIC LAMINATE PLATE PLYWOOD PRESSURE TREATED

QUARRY TILE

RADIUS/RISE RAINWATER CONDUCTOR RECEPTACLE REFRIGERATOR REFURBISH RELOCATE REMOVE(D) REQUIRED ROOF DRAIN ROOFING MEMBRANE ROUGH OPENING RUBBER COVE BASE

SCHEDULE SEALANT SEALANT & BACKER ROD SHEET SHEET VINYL FLOORING SIMILAR

CITY OF PHILADELPHIA DEPARTMENT OF PARKS AND RECREATION

MAYOR - CHERELLE L. PARKER

MANAGING DIRECTOR - ADAM THIEL COMMISSIONER OF PARKS AND RECREATION - ORLANDO RENDON

VINCENT G. PANATI PLAYGROUND 3101-27 N 22ND ST, PHILADELPHIA PA 19132 PROJECT NO. 16478E-01-01

SET ISSUE NAME: BID SET SET ISSUE DATE: 02/05/2024

STRUCTURAL & MEP ENGINEER D'HUY ENGINEERING, INC ONE EAST BROAD ST, STE 310 **BETHLEHEM PA 18018**

ARCHITECT CICADA ARCHITECTURE/PLANNING, INC 1520 LOCUST ST, STE 702 PHILADELPHIA PA 19102

CIVIL ENGINEER CORNERSTONE CONSULTING ENGINEERS & DESIGN SERVICES, INC 3 N 2ND ST, 2ND FLOOR PHILADELPHIA PA 9106



N. LIPPINCOTT ST BIR BIR BIR C. LEARFIELD ST	uo Image: Constraint of the second secon
	Sheet Title:
	COVER SHEET
	Sheet No.
	C000
✓ NOT FOR CONSTRUCTION	UUUU

KITCHEN DESIGN CORSI ASSOCIATES 14899 BALTIMORE PIKE SPRINGFIELD PA190640

COMMISSIONING WRIGHT COMMISSIONING 30 N 41S S PHILADELPHIA PA 19104



<u>KEYNC</u>	DTES
KEY	DESCRIPTION
4.01	MASONRY VENEER
5.01	6" METAL CHANNEL
5.02	OPEN METAL GRATING
5.04	METAL DECKING @ SOFFIT
5.05	HSS 6X6 - SEE STRUCT DWGS
5.06	HSS 6X4 - SEE STRUCT DWGS
5.07	HSS 8X8 - SEE STRUCT DWGS
7.01	STANDING SEAM METAL ROOF
7.02	SCUPPER AND DOWNSPOUT
7.03	COMPOSITE FASCIA BOARD
7.04	MEMBRANE ROOF
7.07	CRICKET
7.08	SNOW CLEATS
8.01	SKYLIGHT
8.02	INTERIOR ALUMINUM STOREFRONT SYSTEM
8.04	ALUMINUM STOREFRONT ENTRY SYSTEM
8.05	ROOF ACCESS HATCH
8.06	ALUMINUM STOREFRONT WINDOWE SYSTEM
8.08	TRANSLUCENT FIBERGLASS GLAZING
10.01	LOUVERS
10.04	RECESSED CLASS A FIRE EXTINGUISHER
10.05	RECESSED CLASS K FIRE EXTINGUISHER
10.06	WALL PADS
10.07	BACKSTOP SWITCH. COORDINATE WITH ELEC DWGS
11.03	CEILING MOUNTED BASKETBALL HOOP
11.04	KITCHEN HOOD EXHAUST FAN - SEE MEP & F.S. DWGS
12.02	TRASH ENCLOSURE
12.05	BENCH
22.01	DRINKING FOUNTAIN WITH BOTTLE FILLER
22.02	WALL HYDRANT - COORDINATE WITH PLUMBING DWGS
26.01	EXTERIOR WALL MOUNTED LIGHT FIXTURE
32.01	NEW FENCE TO MATCH EXISTING
32.02	NEW FENCE GATE TO MATCH EXISTING

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES,
- ORDINANCES AND REGULATIONS WHICH SHALL TAKE PRECEDENCE OVER THESE DRAWINGS. CONTRACTOR SHALL ACQUAINT HIMSELF WITH THE CONDITIONS OF THE WORK AT THE JOB SITE BEFORE PREPARING HIS PROPOSAL AND SHALL CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS BEFORE STARTING ANY OF THIS WORK.
- 3. IT IS INTENDED THAT ALL WORK REQUIRED UNDER THIS CONTRACT SHALL BE COMPLETE AND OPERATIONAL IN ALL RESPECTS AND SHALL BE PERFORMED IN ACCORDANCE WITH THE BEST INDUSTRY STANDARDS AND TRADE PRACTICES.
- CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO PREVENT DAMAGE TO TREES, EQUIPMENT AND EXISTING AND NEW WORK WITHIN THE LIMITS OF THE CONTRACT.
 DO NOT SCALE DRAWINGS, USE DIMENSIONS GIVEN.
- BO NOT SCALE DRAWINGS, USE DIMENSIONS GIVEN.
 SHOULD AN ERROR OR DISCREPANCY BE FOUND IN THE DRAWINGS IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PROCEEDING WITH THE WORK.
- 7. ALL WORK DISTURBED BY THE OPERATIONS OF THIS CONTRACT SHALL BE PATCHED AND REINSTATED WITH WORK OF MATCHING MATERIALS AND QUALITY.
- "TYPICAL" MEANS TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
 "SIMILAR" MEANS REFERENCED ITEM IS SIMILAR IN NATURE TO ACTUAL DETAIL, SECTION OR ELEVATION (i.e. OPPOSITE-HAND, REVERSE DIRECTION, ETC.).
- 10. MANUFACTURER'S SUGGESTED INSTALLATION METHODS SHALL TAKE PRECEDENCE OVER METHODS AS DOCUMENTED WHERE A CONFLICT EXISTS. CONTRACTOR TO BRING TO THE ATTENTION OF THE ARCHITECT OR ENGINEER
- 11. INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED TO OR OBTAINED BY ARCHITECT INDICATING EXISTING CONDITIONS. ACTUAL FIELD CONDITIONS MAY VARY FROM THOSE INDICATED ON THE DRAWINGS. SHOULD ACTUAL CONDITIONS DIFFER SUBSTANTIALLY FROM THOSE INDICATED ON THE DRAWINGS OR FROM THOSE ORDINARILY ENCOUNTERED IN RENOVATION WORK OF THIS TYPE. PROMPTLY NOTIFY ARCHITECT BEFORE ANY OF THESE CONDITIONS ARE DISTURBED. FAILURE TO DO SO MAY WAIVE THE CONTRACTOR'S RIGHT TO ADDITIONAL TIME OR OTHER CONSIDERATION DUE TO SUCH
- CONDITIONS.
 BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR CORRECTNESS OF SAME. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS. ANY DIFFERENCE WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION, BEFORE PROCEEDING WITH THE WORK
- 13. COORDINATE TRADES TO ENSURE TIMELY COMPLETION OF WORK.
- REMOVAL OF HAZARDOUS MATERIALS NOTED IN THESE DOCUMENTS SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND UNDER THE DIRECTION OF THE OWNER OR THE OWNER'S DESIGNATED ENVIRONMENTAL CONSULTANT.
 REMOVE ALL DEBRIS FROM SITE.
- REMOVE ALL DEBRIS FROM SITE.
 IF THE DIGITAL FILES USED TO CREATE THE CONTRACT DOCUMENTS ARE ACQUIRED, THEY SHOULD BE USED FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR FABRICATION OF BUILDING COMPONENTS, UNLESS AUTHORIZED BY THE PROJECT ARCHITECT IN WRITING.
- THESE DRAWINGS ARE THE SOLE PROPERTY OF THE ARCHITECT THEY ARE PROVIDED TO THE OWNER AND CONTRACTOR FOR THEIR USE SOLELY WITH RESPECT TO THIS PROJECT.
 DEMOLISH AND REMOVE WORK AS INDICATED ON THE DRAWINGS AND AS REQUIRED TO ACCOMMODATE ALL NEW WORK. PERFORM DEMOLITION IN A SAFE, CAREFUL MANNER TO
- ACCOMMODATE ALL NEW WORK. PERFORM DEMOLITION IN A SAFE, CAREFOL MANNER TO PREVENT ACCIDENTS AND PROPERTY DAMAGE. OPENINGS IN EXISTING CONSTRUCTION SHALL BE CUT NEAT AND CLEAN WITHOUT DISTURBING THE ADJOINING CONSTRUCTION. PROVIDE THE NECESSARY FRAMING, LINTELS, REINFORCEMENT, TEMPORARY SUPPORTS AND SHORING AS NEEDED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING.
- THE SUBMISSION OF PRICING SHALL BE EVIDENCE THAT THE CONTRACTOR HAS FULLY EVALUATED POTENTIAL PROBLEMS AND LATER ADDITIONAL COST CLAIMS FOR LABOR, EQUIPMENT, MATERIAL OR HARDSHIP WILL NOT BE CONSIDERED.
- 20. MASONRY UNIT THICKNESSES ARE NOMINAL

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SHEET NO.	SHEET NAME	BID ISSUE DATE
00 GENERAL		
COOD		02/05/2024
C000		02/05/2024
G001		02/05/2024
G005		02/05/2024
	CODE REVIEW & EGRESS FLANS	02/03/2024
C1.1	SITE PLAN	02/05/2024
C1 2	EXISTING CONDITIONS PLAN	02/05/2024
C1 3		02/05/2024
C1.4		02/05/2024
C1.4		02/05/2024
01.5		02/05/2024
C1.0		02/05/2024
	DETAILS	02/03/2024
		02/05/2024
03 ARCHITECTURA		02/03/2024
A100	SITE PLAN	02/05/2024
A110	ELOOB PLAN	02/05/2024
A120		02/05/2024
A120		02/05/2024
A130		02/05/2024
A210		02/05/2024
A000		02/05/2024
A301		02/05/2024
A400		02/05/2024
A401	BUILDING SECTIONS	02/05/2024
A450	WALL SECTIONS	02/05/2024
A451	WALL SECTIONS	02/05/2024
A500	ENLARGED DWGS - PLANS + INT ELEVS	02/05/2024
A501	ENLARGED DWGS - PLANS + ELEVS	02/05/2024
A610	ENLARGED PLAN DETAILS	02/05/2024
A620	EXTERIOR AND INTERIOR DETAILS	02/05/2024
A621	WINDOW DETAILS	02/05/2024
A630	ROOF DETAILS	02/05/2024
A810	FINISH & FURNITURE PLAN	02/05/2024
A910	WINDOW SCHEDULES, TYPES,	02/05/2024
A930	DOOR SCHEDULES, TYPES, DETAILS	02/05/2024
A940	INTERIOR SIGNAGE TYPES. SCHEDULE	02/05/2024
04 STRUCTURAL		
S1 1	FOUNDATION PLAN	02/05/2024
<u>S12</u>	MEZZANINE & LOW ROOF FRAMING PLAN	02/05/2024
<u>\$1.2</u> \$1.3		02/05/2024
S1 /		02/05/2024
<u> </u>		02/05/2024
<u> </u>		02/05/2024
52.2		02/05/2024
<u> </u>		02/05/2024
<u> </u>	FRAMING DETAILS	02/05/2024
53.3		02/05/2024
S4.1	GENERAL NOTES	02/05/2024
05 MECHANICAL		00/05/0004
H0.1		02/05/2024
H2.1	FLOOR PLAN	02/05/2024
H2.2	ROOF PLAN	02/05/2024
H7.1	DETAILS	02/05/2024
H8.1	SCHEDULES	02/05/2024
06 ELECTRICAL		
E0.1	COVER SHEET	02/05/2024
E0.2	ELECTRICAL NOTES	02/05/2024
E0.3	SITE PLAN - DEMOLITION	02/05/2024
E0.4	SITE PLAN - NEW	02/05/2024
E2.1	FLOOR PLAN - LIGHTING	02/05/2024
E3.1	FLOOR PLAN - POWER	02/05/2024
E4.1	FLOOR PLAN - LOW VOLTAGE	02/05/2024
E5.1	MEZZANINE PLANS	02/05/2024
E7.1	DETAILS	02/05/2024
E7.2	DETAILS	02/05/2024
E7.3	DETAILS	02/05/2024
E8.1	SCHEDULES	02/05/2024
07 PLUMBING		-
P0.1	COVERSHEET	02/05/2024
P1 1	SITE PLAN	02/05/2024
P2 1	FLOOR PLAN - DRAINAGE	02/05/2024
D9.9	ROOF & ME77ANINE PLANS	02/05/2024
D2 1		02/05/2024
۲J.I ۲ 7 م		02/00/2024
		02/03/2024
P0.1	JOULED	02/05/2024
		00/05/000/
FS-1.0	FOOD SERVICE EQUIPMENT PLAN AND SCHEDULE	02/05/2024
FS-1.1	FOOD SERVICE ELECTRICAL PLAN AND SCHEDULE	02/05/2024
FS-1.2	FOOD SERVICE PLUMBING PLAN AND SCHEDULE	02/05/2024
FS-2.0	FOOD SERVICE EXHAUST HOOD DETAILS	02/05/2024
FS-2.1	FOOD SERVICE EXHAUST HOOD DETAILS	02/05/2024



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WATER CLOSET







APPLICABLE CODES	
CITY OF PHILADELPHIA ZONING CODE 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL PLUMBING CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL ENERGY CODE AMERICANS WITH DISABILITIES ACT, TITLE II ICC/ANSI A117.1-2017	
CITY OF PHILADELPHIA ZONING CODE	
ZONING DISTRICT: FIRE DISTRICT: MAX BUILDING HEIGHT:	SP-PO-A (RECREATION) CITY OF PHILADELPHIA 38 FT
NTERNATIONAL BUILDING CODE (2018)	
PROPOSED OCCUPANCY USE/GROUP: PROPOSED CONSTRUCTION TYPE: ALLOWABLE BUILDING HEIGHT AND AREA:	ASSEMBLY GROUP " A-3 " (RECREATION) IIB - NONSPRINKLERED, NON-COMUSTIBLE 55 FT / 2-STORRIES / 9,500 GSF
IRE RESISTANCE REQUIREMENTS, TYPE IIB - NONSPRIN	KLERED, NON-COMBUSTIBLE
PRIMARY STRUCTURE FRAME: BEARING WALL, EXT: BEARING WALLS, INT: BEARING WALLS, EXT, LESS THAN 10 FT FSD: NONBEARING WALLS, INT: FLOOR CONSTR. + SECONDARY MEMBERS: ROOF CONSTR. + SECONDARY MEMBERS	0 HR 0 HR 0 HR 0 HR 0 HR 0 HR 0 HR
IRE SEPARATION REQUIREMENTS	
BETWEEN GROUP "A" & GROUP "E" BETWEEN GROUP "A" & GROUP "B"	NONE REQUIRED

OCCUPANT LOAD TABULAR

NAME	AREA	CLASSIFICATION	FUNCTION OF SPACE	LOAD FACTOR	NET/ GROSS	LC
	I	I	1			1
MULTIPURPOSE ROOM	787 SF	A-3 (ASSEMBLY)	ASSEMBLY: UNCONCENTRATED (TABLES AND CHAIRS)	15 SF	NET	Ę
CLOSET	29 SF	A-3 (ASSEMBLY)	ACCESSORY STORAGE AREAS, MECH EQUIP RM	300 SF	GROSS	
MAKER SPACE	342 SF	E (EDUCATION)	EDUCATIONAL: SHOPS & OTHER VOCATIONAL RM AREAS	50 SF	NET	
COMMUNITY KITCHEN	268 SF	E (EDUCATION)	EDUCATIONAL: SHOPS & OTHER VOCATIONAL RM AREAS	50 SF	GROSS	
OFFICE + CLOSET	199 SF	B (BUSINESS)	BUSINESS AREAS	100 SF	GROSS	
GYM	2467 SF	A-3 (ASSEMBLY)	EXERCISE ROOMS	50 SF	GROSS	Ę
GENERAL STORAGE	37 SF	A-3 (ASSEMBLY)	ACCESSORY STORAGE AREAS, MECH EQUIP RM	300 SF	GROSS	
JANITOR CLOSET	20 SF	A-3 (ASSEMBLY)	ACCESSORY STORAGE AREAS, MECH EQUIP RM	300 SF	GROSS	
MECH MEZZANINE	267 SF	A-3 (ASSEMBLY)	ACCESSORY STORAGE AREAS, MECH EQUIP RM	300 SF	GROSS	
MECH	25 SF	A-3 (ASSEMBLY)	ACCESSORY STORAGE AREAS, MECH EQUIP RM	300 SF	GROSS	
TOTAL SPACES: 10	•	•	·	TOTAL (OCCUPANCY:	1

PLUMBING FIXTURE REQUIREMENTS						
TOTAL OCCUPANTS:	123	(62) MEN (62	2) WOMEN			
	REQU	EQUIRED PROPOSED				
	MEN	WOMEN	MEN	WOMEN	ALL-GENDE	
WATER CLOSETS:	1	4	2	3	1	
LAVATORIES:	2	2	2	2	1	
URINALS (SUBST. FOR WC):	1	N/A	1			
DRINKING FOUNTAINS		2		2		
SERVICE SINK		1	1			

BUILDING AREA					
	AREA	USES	EGRESS STAIR	# OF EXITS	# OF OCCUPANTS
LEVEL 1	5775	A-3, E, B	-	2 MIN	123

ENERGY CODE (IECC 2018)

OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MIN REQUIREMENTS, R-VALUE METHOD

CLIMATE ZONE: 4A	REQUIREMENTS	PROVIDED	NOTES
ROOF INSULATION - ABOVE DECK	R-30 CI		
WALLS ABOVE GRADE - MASS - FRAMED	R-9.5 CI R-13 + R-3.8 CI OR R-20	R-20 CI R-21 CAVITY	@ MECH MEZZ
WALLS BELOW GRADE	R-7.5 CI	R-10 CI	
FLOORS - JOIST / FRAMING	R-30	R-30 MIN	@ MECH MEZZ
SLAB-ON-GRADE FLOORS - UNHEATED SLAB	R-10 FOR 24" BELOW	R-7.5	

BLDG ENVELOPE FENESTRATION MAX U-FACTOR AND SHGC REQUIREMENTS

CLIMATE ZONE: 4A_	REQUIREMENTS	PROVIDED
U-FACTOR FIXED FENESTRATION OPERABLE FENESTRATION ENTRANCE DOORS	0.38 0.45 0.77	0.38 0.45 0.77
SKYLIGHT SHGC ORIENTATION PF < 0.2 $0.2 \le PF < 0.5$ PF ≥ 0.5 SKYLIGHT	SEW N 0.36 0.48 0.43 0.53 0.58 0.58 0.40 0.40	0.36 0.43 0.58 0.40

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XV MX-1 1-1 MX-2 <u>ZONING MAP</u>

FOR THE CONSOLIDATED PARCEL: 16,281 SF OR 40.2% OF THE LOT IS ZONED I-1, LIGHT INDUSTRIAL. 24,219 SF OR 59.8% OF THE LOT IS ZONED SP-PO-A, ACTIVE PARKS AND OPEN SPACE (SPECIAL PURPOSE). ALL PROPOSED IMPROVEMENTS ARE LOCATED WITHIN THE SP-PO-A ZONING DISTRICT.

GENERAL NOTES:

1.	THIS PLAN REFERENCES A SURVEY BY:	CORNERSTONE CON 213 W. MAIN STREI PLAN ENTITLED: "BC PLAN DATED: 8/24,	Sulting Engineering & AI ET, Suite 201, Lansdale, Dundary & Topographic 3 /2023	RCHITECTURAL, IN PA 19446 SURVEY"	С.
2.	OWNER/APPLICANT:	CITY OF PHILADELPI 1515 ARCH STREET CONTACT: APARNA P, PH: 215.683.0202 E-MAIL: Aparna.Palai	HA , 10TH FLOOR, PHILADELPHI ALANTINO, DEPUTY COMMISSI(ntino@phila.gov	a pa 19102 DNER OF CAPITOL	INFRASTR
3.	PROJECT LOCATION INFORMATION:	3101-27 N. 22ND 2119-29 W. CLEAR *PROPOSED LOT CC	STREET (OPA #78—573420 FIELD STREET (OPA #88—5 INSOLIDATION	0) 927460)	
4.	ZONING INFORMATION:	ZONING DISTRICTS:	SP-PO-A, ACTIVE PARKS	AND OPEN SPAC	E&I-1
		existing use: Proposed use:	COMMUNITY CENTER WITH COMMUNITY CENTER WITH	PLAYGROUND, BA PLAYGROUND, BA	SKETBALI SKETBALI
5.	ZONING BULK AND AREA REG	UIREMENTS:			
		, <u>.</u>			DCA
	MINIMUM LOT REQUIREMENTS:	F	REQUIRED		REQUI
	MIN. LOT WIDTH:	IF	ANY PORTION OF THE AC	rual site	16 FT
	MIN. LOT AREA:	0	F A BUILDING, STRUCTURE,	ACTIVITY	960 \$
	MAX OCCUPIED AREA:	A W P	KEA, OK OTHER IMPROVEME (ITHIN 200 FT. OF ANY POF ARCEL WITHIN A ZONING DI	INI IS RTION OF A STRICT	CORN
		0	THER THAN SP_PO_A OR	SP_PO_P	

FRONT YARD DEPTH: MIN. SIDE YARD WIDTH: MIN. REAR YARD DEPTH:

MAX. BUILDING HEIGHT: MAX. FLOOR AREA:

<u>RSA-5 NOTES</u>: [2] IN THE RSA-5 DISTRICT, A LOT CONTAINING AT LEAST 1,600 SQ. FT. OF LAND MAY BE DIVIDED INTO LOTS WITH A MINIMUM LOT SIZE OF 800 SQ. FT., PROVIDED THAT: (.A) AT LEAST SEVENTY-FIVE PERCENT (75%) OF LOTS ADJACENT TO THE LOT TO BE DIVIDED IS 1,000 SQ. FT. OR LESS; (.B) EACH OF THE LOTS CREATED IS USED FOR ONE SINGLE-FAMILY ATTACHED HOME; AND

THE SIZE, LOCATION, AND DESIGN OF

AREA. OR OTHER IMPROVEMENT MUST

REGULATIONS OF THE MOST RESTRICTIVE

ADJACENT ZONING DISTRICT WITHIN 200

FT. THAT IS NOT SEPARATED BY A

SURROUNDING ATHLETIC FIELDS MAY BE

THAT BUILDING, STRUCTURE, ACTIVITY

COMPLY WITH THE DIMENSIONAL

WATERWAY EXCEPT FENCES

UP TO 15 FT. IN HEIGHT.

(.C) EACH OF THE LOTS CREATED MEETS THE MINIMUM LOT WIDTH REQUIREMENT OF THE ZONING DISTRICT. [3] IN THE RSA-5 AND RSA-6 DISTRICTS, BUILDINGS ON LOTS EQUAL TO OR LESS THAN 45 FT. IN DEPTH ARE EXEMPT FROM THE MAXIMUM OCCUPIED AREA REQUIREMENT. 562 [4] IF ABUTTING LOTS ON BOTH SIDES OF AN ATTACHED BUILDING CONTAIN ONLY TWO STORIES OF ENCLOSED AREA. THE STORIES ABOVE THE SECOND STORY OF THE ATTACHED HOUSE SHALL BE SET BACK AN ADDITIONAL EIGHT FT. FROM THE MINIMUM DISTANCE BETWEEN THE FRONT FACADES AND THE FRONT LOT LINE REQUIRED BY § 14-701(2)(B)[5] BELOW; EXCEPT THIS REQUIREMENT SHALL NOT APPLY TO CORNER LOTS. [5] IN THE RSA-5 DISTRICT, FRONT FACADES SHALL COMPLY WITH THE FOLLOWING:

(.A) ON ANY GIVEN STREET, THE DISTANCE BETWEEN THE FRONT FACADE AND THE FRONT LOT LINE SHALL BE NO GREATER THAN THE DISTANCE BETWEEN THE FRONT FACADE ÀND THE FRONT LOT LINE OF THE PRINCIPAL BUILDING ON THE IMMEDIATELY ADJACENT LOT ON SUCH STREET WITH THE GREATER DISTANCE BETWEEN ITS FRONT FACADE AND ITS FRONT LOT LINE: AND SHALL BE NO LESS THAN THE DISTANCE BETWEEN THE FRONT FACADE AND THE FRONT LOT LINE OF THE PRINCIPAL BUILDING ON THE IMMEDIATELY ADJACENT LOT ON SUCH STREET WITH THE LESSER DISTANCE BETWEEN ITS FRONT FACADE AND ITS FRONT LOT LINE. (.B) ON ANY GIVEN STREET, IF THERE IS NO PRINCIPAL BUILDING ON AN IMMEDIATELY ADJACENT LOT, THEN THE DISTANCE BETWEEN THE FRONT FACADE AND THE FRONT LOT LINE SHALL MATCH THE DISTANCE BETWEEN THE FRONT FACADE AND THE FRONT LOT LINE ON THE CLOSEST BUILDING TO THE SUBJECT PROPERTY THAT IS ON THE SAME BLOCKFACE. IF THERE IS NO SUCH BUILDING, THE MINIMUM DISTANCE BETWEEN THE FRONT FACADE AND THE FRONT LOT LINE SHALL BE ZERO. (.C) IF THE PROPERTY IS BOUNDED BY TWO OR MORE STREETS, ONLY THE PRIMARY FRONTAGES AS DESIGNATED IN § 14-701(1)(D)(.4) (PRIMARY FRONTAGE) SHALL BE SUBJECT TO THE FRONT FACADE REQUIREMENTS OF (.A) AND (.B) ABOVE. 565

[7] IN THE RSA-5 DISTRICT, THE MINIMUM REAR YARD DEPTH FOR LOTS EQUAL TO OR LESS THAN 45 FT. IN DEPTH SHALL BE 7 FT.

MINIMUM REQUIREMENTS FOR THOSE YARDS SHALL BE EITHER THOSE FOR THE INDUSTRIAL DISTRICT, OR THOSE FOR THE RESIDENTIAL DISTRICT ON THE ABUTTING SIDE, WHICHEVER IS LARGER.

7. NO PARKING IS PROPOSED.

8. NO BICYCLE PARKING IS REQUIRED AS THE GFA IS LESS THAN 7,500 SF.

9. THIS PLAN IS TO BE USED FOR GRAPHICAL REPRESENTATION OF THE PHYSICAL FEATURES OF THE PROPERTY AND NOT TO BE USED FOR CONSTRUCTION. THE BUILDING FOOTPRINT IS CONCEPTUAL ONLY AND ESTABLISHES A BUILDING ENVELOPE IN WHICH THE FINAL BUILDING FOOTPRINT WILL BE GENERALLY LOCATED. THE FINAL BUILDING FOOTPRINT SHALL BE DETERMINED AT THE TIME OF BUILDING PERMIT ISSUANCE AND SHALL BE GENERALLY AS CONFIGURED ON THE PLAN WITH AN OVERALL SQUARE FOOTAGE NOT TO EXCEED THE TOTAL SHOWN ON THE APPROVED PLAN.

10. THE WORD "CERTIFY" OR "CERTIFICATE" AS SHOWN AND USED HEREON MEANS AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THE FACTS OF THIS PLAN AND REFERENCED SURVEY AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED.

11. THE DRAWING IS PREPARED BY CORNERSTONE CONSULTING ENGINEERS AND ARCHITECTURAL, INC. AND NO PART OF THIS DRAWING MAY BE REPRODUCED BY PHOTOCOPYING, RECORDING OR BY ANY OTHER MEANS, OR STORED, PROCESSED, OR TRANSMITTED IN OR BY ANY COMPUTER OR OTHER SYSTEMS WITHOUT THE PRIOR WRITTEN PERMISSION OF THE SURVEYOR, ENGINEER, ARCHITECT, OR DESIGN PROFESSIONAL. COPIES OF THIS PLAN WITHOUT A RAISED IMPRESSION OR COLOR SEAL ARE NOT VALID.

12. BY GRAPHICAL PLOTTING ONLY THIS PROPERTY IS LOCATED IN FEMA FLOOD MAP - OTHER AREAS/ ZONE X, PER MAP ENTITLED "FIRM, FLOOD INSURANCE RATE MAP, PHILADELPHIA

COUNTY, PENNSYLVANIA (ALL JURISDICTIONS)," MAP NUMBER 4207570095G, EFFECTIVE JANUARY 17, 2007. 13. THE APPLICANT IS PROPOSING TO CONSTRUCT A 1-STORY WITH MEZZANINE LEVEL, COMMUNITY CENTER ALONG WITH ASSOCIATED SITE IMPROVEMENTS.

14. THE WATERSHED FOR THE SITE IS THE SCHUYLKILL RIVER.

15. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS SUPPLIED THROUGH THE PA ONE CALL SYSTEM WHICH WERE AVAILABLE AT THE TIME OF THE SURVEY. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.

16. THE ENTIRE SITE CONTAINS UB - URBAN LAND SOIL (PER THE USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY). 17. THE ACCEPTABLE CONSTRUCTION SPECIFICATIONS OF THE PHILADELPHIA STREETS DEPARTMENT, AS LISTED IN THE RIGHT OF WAY IMPROVEMENT STANDARD, CHAPTER 1. STANDARD NOTES

PER THE CITY STREETS DEPARTMENT FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY.

B. ALL PROPOSED BICYCLE RACKS WITHIN THE RIGHT-OF-WAY SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAILS FZ0101A, FZ0101B, AND FZ0101C. C. ADDITIONALLY, THE ACCEPTABLE CONSTRUCTION SPECIFICATIONS OF THE PHILADELPHIA STREETS DEPARTMENT ARE THE FOLLOWING: · CONSTRUCTION ITEMS: PENNDOT PUB. 408 CONSTRUCTION SPECIFICATIONS (MOST CURRENT EDITION) - STREET LIGHTING: PHILADELPHIA STREETS DEPARTMENT, STREET LIGHTING AND TRAFFIC DIVISION SPECIFICATIONS. TRAFFIC SIGNALS: PHILADELPHIA STREETS DEPARTMENT, STREET LIGHTING AND TRAFFIC DIVISION SPECIFICATIONS. - SPECIAL PROVISIONS: SPECIAL PROVISIONS, NOT INCLUDED WITHIN THE PENNDOT PUBLIC



- SPECIAL PROVISIONS: SPECIAL PROVISIONS. NOT INCLUDED WITHIN THE PENNDOT PUBLICATION 408. WILL BE DEVELOPED AND MAINTAINED BY THE STREETS DEPARTMENT'S	
DESIGN UNIT.	C11
- <u>Standard details</u> : Philadelphia streets department standard details will be the standard for all roadway construction in the city of philadelphia. Where no	C1.1
CURRENT STANDARD EXISTS. THE MOST RECENT EDITION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION OF THE PENNDOT ROADWAY CONSTRUCTION STANDARDS AND DESIGN MANUALS WILL APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION STANDARDS AND DESIGN MANUALS AND DESIGN MANUALS AND DESIGN MANUALS AND DESIGN APPLY. A LIST OF ALL CURRENT NICYTYD CONSTRUCTION STANDARDS AND APPLY. A LIST OF ALL CURRENT NICYTYD APPLY.	
STREETS DEPARTMENT STANDARD DETAILS IS AVAILABLE AT: https://www.philadelphiastreets.com/customer-service/downloads-and-links/	REVISION 0





ADJUINER BUUNDART
RIGHT OF WAY LINE
——————————————————————————————————————
95 EXISTING CONTOUR
x 95 EXISTING SPOT ELEVATION
EXISTING TREELINE
EXISTING FENCE
OH EXISTING OVERHEAD WIRE
G APPROXIMATE GAS LINE
W APPROXIMATE WATER LINE
C APPROXIMATE TELCO LINE
E APPROXIMATE ELECTRIC LINE
S APPROXIMATE SANITARY LINE
============= APPROXIMATE DRAINAGE LINE
EXISTING CURB





WATERSHED MAP



WATER VALVE CLEAN OUT MONITORING WELL CONCRETE MONUMENT FOUND IRON PIN FOUND IRON PIPE FOUND NAIL FOUND STONE FOUND BENCHMARK

WV WV

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(f)

		CLIENT DATA
<u>GENERAL NOTE</u>	<u>S:</u>	
1. THIS PLAN REFERENCES A SURVEY BY:	CORNERSTONE CONSULTING ENGINEERING & DESIGN SERVICES, INC. 213 W. MAIN STREET, SUITE 201, LANSDALE, PA 19446 PLAN ENTITLED: "BOUNDARY/LOCATION AND TOPOGRAPHIC SURVEY" PLAN DATED: 08/24/2023	
2. OWNER/APPLICANT:	CITY OF PHILADELPHIA 1515 ARCH STREET, 10TH FLOOR, PHILADELPHIA PA 19102 CONTACT: APARNA PALANTINO, DEPUTY COMMISSIONER OF CAPITOL INFRASTRUCTURE PH: 215.683.0202 E-MAIL: Aparna.Palantino@phila.gov	Zion
3. PROJECT LOCATION INFORMATION:	3101–27 N. 22ND STREET (OPA #78–5734200) 2119–29 W. CLEARFIELD STREET (OPA #88–5927460) *PROPOSED LOT CONSOLIDATION	, Inc
 LOCATION OF ALL UNDERGR THAT WERE VISIBLE & ACCI AND THE MAPS LISTED IN ALL UNDERGROUND UTILITIE THIS PLAN IS BASED ON IN ENGINEERS AND ARCHITECTL INFORMATION SHOWN HERECO ELEVATIONS ARE BASED UPO SITE BENCHMARK IS MAG N SINCE THE TIME OF THE FI THE SURVEY BENCHMARK A THIS SURVEY WAS PREPARE 	DUND UTILITIES ARE APPROXIMATE AND HAVE NOT BEEN FIELD LOCATED. ABOVE GROUND STRUCTURES SSIBLE IN THE FIELD ARE SHOWN. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. BEFORE ANY EXCAVATION IS TO BEGIN, S SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. FORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CORNERSTONE CONSULTING JRAL, INC., AND OTHER REFERENCE MATERIAL AS LISTED HEREON. SURVEY & TOPOGRAPHIC IN DERIVED FROM A FIELD SURVEY PERFORMED BY CORNERSTONE CONSULTING IN AUGUST, 2023. ON CITY PLAN (SEE REFERENCE #3) AIL SET. ELEVATION = 121.26' TO ENSURE THAT THERE HAS BEEN NO ALTERATION OF THE SURVEY BENCHMARK ELD SURVEY, IT IS RECOMMENDED THAT THE CONTRACTOR ESTABLISH A CONSTRUCTION BENCHMARK BASED ON ND ELEVATIONS OF OTHER EXISTING IMPROVEMENTS. D WITHOUT THE BENEFIT OF A TITLE REPORT AND SUBJECT THERETO.	S & Design Services Lansdale . PA 19446 Fax: 215-362-8400 FONENET.COM ey Region ey Region -8200
 9. SUBJECT TO ANY AND ALL 10. NO EVIDENCE OF STORM W 11. BY GRAPHICAL PLOTTING O 12. BOUNDARY RESOLUTION BASURVEY. 13. THE WATERSHED FOR THE 14. THE APPLICANT IS PROPOSI 	EASEMENTS OF RECORD WHETHER SHOWN HEREON OR NOT. IATER IMPOUNDMENT WAS FOUND ON THIS SITE OR ON ADJACENT PROPERTIES. NLY THIS PROPERTY IS LOCATED IN FEMA FLOOD MAP – OTHER AREAS/ZONE X. (SEE MAP REFERENCE #2). SED ON FOUND EVIDENCE AND OTHER REFERENCE MATERIALS AS LISTED HEREON AVAILABLE AT THE TIME OF SITE IS THE LOWER SCHUYLKILL WATERSHED. ING TO CONSTRUCT A 1-STORY RECREATION CENTER WITH ASSOCIATED SITE IMPROVEMENTS.	Consulting Engineer 213 West Main Street . Phone: 215-362-2600 www.corners 610-820
 TAX MAPS OF PHILADEI MAP ENTITLED "FIRM, F MAP NUMBER 4207570 COMPILATION OF CITY F LEGAL STATUS CARDS - LC014105, AND 21ST 5 	PHIA COUNTY, COMMONWEALTH OF PENNSYLVANIA. LOOD INSURANCE RATE MAP, PHILADELPHIA COUNTY, PENNSYLVANIA (ALL JURISDICTIONS)," PANEL NOT PRINTED, 095G, EFFECTIVE JANUARY 17, 2007. PLAN NO. 128 PROVIDED BY THE CITY OF PHILADELPHIA. ITITLED IN PART FOR CLEARFIELD STREET – LC007494, 22ND STREET – LC001232, LIPPINCOTT STREET – STREET – LC001173.	24 24 Philadelphia Re 215-362-2600
Ē	PA ONE CALL SERIAL NO: 20232273390	DATE 1/2/20
		VISIONS
		REV
		SCRIPTION
		VO BY DE
		PENNSYLVANIA ONE CALL SYSTEM, INC. 925 Irwin Run Road West Mifflin, Pennsylvania 15122 - 1078
		BEFORE YOU DIG ANYWHERE IN DENNSYL VANIAL CALL 1 800 242 1776
		J.B. ANDERSON FROFESSIONAL ENGINEER DELA WARE LICENSE No. PE 15438 PENNSYL VANIA LICENSE No. PE 055536 MARYLAND LICENSE No. 24GE04520400 VIRGINIA LICENSE No. 0402 045725
		PROJECT LOCATION CONSTRUCTION DOCUMENTS FOR REBUILD - VINCENT G. PANATI
		PLAYGROUND 3101-27 N. 22ND STREET W. LIPPINCOTT & N. 22ND STREETS CITY OF PHILADELPHIA PENNSYLVANIA, 19132
		PREPARED FOR: CITY OF PHILADEPHIA TITLE
		EXISTING CONDITIONS PLAN
		PWD SW TRACKING NO. FY24-PANA-7562-01 PROJ. # 23-0501 DATE 02/05/2024 CAD ID. 23-0501 DRN BY MD SCALE AS NOTED CHK BY JBA
	NOT FOR CONSTRUCTION	C1.2 REVISION 0



TERIAL	CONNECTION MAIN	<u>COMMENTS</u>
	12" TCP	SADDLE CONNECTION
	12" TCP	WYE CONNECTION
PPER	6"	2" RPZ IN 1ST FL CLOSET; FERRULE CONNECTION

UTILITY NOTES

GENERAL NOTES

- 1. COORDINATE LOCATIONS AND TIE-IN POINTS OF PROPOSED MECHANICAL AND ELECTRICA SYSTEMS WITH THE APPROPRIATE CONSULTANTS PLANS, AND / OR THE APPROPRIATE GOVERNMENTAL AGENCY HAVING JURISDICTION AT THE TIME OF CONSTRUCTION.
- 2. ALL TRENCHES SHALL BE SHORED IN ACCORDANCE WITH OSHA STANDARDS. ALL 3. DIMENSIONS AND DISTANCES SHOWN WITHIN THE PLAN SET ARE U.S. STANDARD MEASURE, EXCEPT LOT BOUNDARY DIMENSIONS, WHICH ARE PHILADELPHIA DISTRICT
- STANDARD MEASURE. 4. CASTINGS TO BE ADJUSTED TO GRADE AND INLETS TO BE MAINTAINED AND PROTECTED THROUGH CONSTRUCTION.

UTILITY LINE TRENCH EXCAVATION NOTES: 1. LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO T

- LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY. 2. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCT BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING RESTORATION AND STABILIZATION OPERATIONS.
- 3. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE 4. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.
- 5. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED SHALL BE PUM
- THROUGH A FILTRATION DEVICÉ. 6. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AN GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.

SANITARY SEWER NOTES

- 1. SANITARY SEWER LINES SHALL BE CIP. 2. ALL SANITARY SYSTEM MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS.
- 3. ALL PROPOSED SANITARY SEWER SERVICES SHALL BE COORDINATED WITH THE MECHAN PLUMBING CONSTRUCTION DOCUMENTS.
- 4. SANITARY SEWER LINES AND STORM SEWER CROSSINGS SHALL HAVE A MINIMUM VERT CLEARANCE OF EIGHTEEN (18) INCHES OR A MINIMUM HORIZONTAL SEPARATION OF TE (10) FEET. IF 18" VERTICAL ĆLEARANCE CANNOT BE MAINTAINED, THE SANITARY SEWEF OR SEWER LATERAL SHALL BE CONCRETE ENCASED, IN ACCORDANCE WITH PA D.E.P. REQUIREMENTS.

WATER GENERAL NOTES:

- 1. ALL WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY SPECIFICATI 2. LOCATION OF EXISTING WATER FACILITIES SHOWN ARE APPROXIMATE. ANY UTILITIES NOT SHOWN, OR NOT LOCATED AS SHOWN, SHALL NOT BE THE CAUSE OF THE CONTRACTOR RESPONSIBILITY FOR PROTECTION AND/OR REPAIR DURING CONSTRUCTION. EXACT LOC BE VERIFIED IN THE FIELD.
- 3. ALL WATER MAINS AND SERVICE LATERALS REQUIRE A MINIMUM OF FOUR (4) FEET CON OTHERWISE APPROVED.
- 4. WATER AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF TEN (10) FEET HORIZ SEPARATION UNLESS OTHERWISE APPROVED.
- 5. SANITARY LINES SHALL HAVE A MINIMUM OF EIGHTEEN (18) INCH VERTICAL SEPARATION WATER LINE UNLESS OTHERWISE APPROVED.
- 6. DEVELOPER SHALL OBTAIN ALL NECESSARY ROAD OPENING PERMITS REQUIRED FOR THE OF THE WATER FACILITIES, AND SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL APP

STANDARD GSI PLAN NOTES

AND INSPECTION COSTS ASSOCIATED WITH THESE PERMITS.

THE STANDARD PLAN NOTES BELOW SHOULD TYPICALLY BE PROVIDED TO THE DEVELOPER THAT ARE NOT REQUIRED TO GO THROUGH THE PRIVATE COST PROCESS.

- 1. THE APPROVED WORK SHALL BE DONE IN THE PRESENCE OF A PWD INSPECTOR. 2. THE CONTRACTOR PERFORMING THIS WORK IS TO NOTIFY PWD'S GREEN STORMWATER LEAST 7 DAYS PRIOR TO STARTING WORK TO SCHEDULE AN INSPECTOR (ATTN: GERALE
- 215-300-9079). 3. APPROVAL OF THESE PLANS BY THE WATER DEPARTMENT IS STRICTLY LIMITED TO THE GREEN STORMWATER INFRASTRUCTURE SHOWN WITHIN THE LIMITS OF THE CITY OF PHI
- RIGHT OF WAY. 4. ANY CHANGE TO, OR DEVIATION FROM, THE FINAL APPROVED DESIGN PLANS DURING
- MUST BE APPROVED BY PWD. 5. CONTRACTOR MUST UTILIZE ADEQUATE SHORING METHODS TO PROTECT THE STABILITY GREEN STORMWATER INFRASTRUCTURE.
- 6. CONTRACTOR MUST COMPLY WITH EROSION AND SEDIMENT CONTROL REQUIREMENTS D CONSTRUCTION. SEE PWD REGULATION 501.3 AND 600.4, PHILA CODE S. 13-603, A CHAPTER 102.
- 7. SUFFICIENT EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED AND THE CONTRACTOR AS TO PREVENT SEDIMENTATION OF STORMWATER SYSTEMS. GREEN INFRASTRUCTURE SYSTEMS DETERMINED BY PWD TO BE INADEQUATELY PROTECTED AND COMPROMISED WILL BE REPLACED TO THE EXTENT REQUIRED BY PWD (UP TO AND IN REPLACEMENT) AT NO ADDITIONAL COST TO PWD.
- 8. CONTRACTOR IS REQUIRED TO UNDERTAKE NECESSARY MEASURES TO PREVENT SEDIME THE WORK SITE, TO PREVENT EROSIVE CONDITIONS, AND TO SUPPRESS DUST ON THE SURROUNDING AREAS. CONTRACTOR MUST COVER AND SURROUND STOCKPILES WITH E MEASURES TO ENSURE SEDIMENT DOES NOT MIGRATE INTO THE PUBLIC ROW OR ENTE SEWER. IF CONTRACTOR IS HAND DIGGING OR EXCAVATING, CONTRACTOR MUST SWEEP THE END OF EACH WORKDAY. THE CITY MAY REQUIRE THE CONTRACTOR / OWNER TO
- CITY-OWNED INLETS AND SYSTEMS AFFECTED BY NONCOMPLIANT OR FAILED E&S CONT 9. CONTRACTOR MUST INSTALL INLET PROTECTION MEASURES AT ALL INLETS ADJACENT TO WORK AREA. INLET PROTECTION MEASURES MUST BE INSPECTED DAILY TO ENSURE PR AND MAINTAINED, POSITIONED OR REPLACED AS NEEDED TO ENSURE PROPER FUNCTIO PREVENT FLOODING. REFER TO PWD GUIDANCE FOR APPROPRIATE MATERIALS AND PRO FOR OPEN-MOUTH INLETS, HIGHWAY GRATE INLETS, TRENCH DRAINS AND CURB-CUT

LEGE -____O__

					CLIENT DATA	
	PROJECT GENE	AL NOTES:				
	1. ENGINEER NAME:	JOHN B. ANDERSON, P.E. CORNERSTONE CONSULTING ENGINEERS & ARCHITECTURAL INC. 213 W. MAIN STREET, SLITE 201, LANSDALE, PA 19106				
id electrical Propriate		PH: 215–362–2600 E–MAIL: JANDERSON@CORNERSTONENET.COM				
ION. . ALL	2. OWNER/APPLICANT:	CITY OF PHILADELPHIA				
PROTECTED		1515 ARCH STREET, 10TH FLOOR, PHILADELPHIA PA 19102 CONTACT: APARNA PALANTINO, DEPUTY COMMISSIONER OF CAPITOL IN PH: 215.683.0202 E—MAIL: Aparna.Palantino@phila.gov	FRASTRUCTURE			
AL TO TWO TIMES THE	3. PROJECT LOCATION INFORMATION:	3101–27 N. 22ND STREET (OPA #78–5734200) 2119–29 W. CLEARFIELD STREET (OPA #88–5927460) *PROPOSED LOT CONSOLIDATION			luc.	Kegior 9-1770
CONSTRUCTION AND GRUBBING AND SITE SIDE OF THE TRENCH	4. EXISTING USE: PROPOSED USE:	1-STORY COMMUNITY CENTER BUILDING (TO BE DEMOLISHED), PL 1-STORY COMMUNITY CENTER BUILDING, PLAYGROUND, BASKETBAL	AYGROUND, BASKETBALL COURT, ETC. L COURT, ETC.		es, li	570-839
G INSTALLATION AND	5. SITE DATA:	TOTAL LOT AREA OF CONSOLIDATED LOT = 40,500 SF / 0.93 AC TOTAL AREA OF DISTURBANCE = 14,400 SF	RES		rvic	-
iall be pomped Disturbed area will be	6. PERMIT & UTILITY REFE	ENCE NUMBERS: LIMIT OF DISTURBANCE: 14,400 SF PWD STORMWATER PLAN REVIEW: FY24-PANA-75 PA ONE CALL SERIAL #20232273390	562–01		5n Se 9446 00	
RDANCE	 SITE GOVERNANCE: SII CONTRACTOR TO LOCA LATERALS TO BE SEALED A AND WASTEWATER CONTRO LATERAL VALVES SHALL BE 	SLE OWNERSHIP E EXISTING WATER AND SEWER LATERALS FOR BUILDING AND DECOMM ID PROPERLY DISCONNECTED IN ACCORDANCE WITH THE PWD REGUL A PLUMBING PERMIT SHALL BE OBTAINED FOR SEALING ALL EXISTIN TURNED OFF AND LATERALS SEALED.	MISSION LATERALS. SEWER ATIONS, CHAPTER 5, SEWER IG SEWER LATERALS. WATER		& Desig sdale . PA 1 str.com	egion 0
THE MECHANICAL/ NIMUM VERTICAL ATION OF TEN IITARY SEWER	9. DEVELOPER/OWNER W REUSE OF WATER SERVICE PROVIDED UPON REQUEST.	L COMPLY WITH ALL PHILADELPHIA REGULATIONS PERTAINING TO PRO LINES AND SEWER LATERALS. PROOF OF ABANDONMENT AND/OR WAT	PPER ABANDONMENT AND/OR FER DISCONTINUANCE MUST BE		Theers of the second se	ћ Valley к 10-820-820
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CONTRACTOR TO DENY EXACT LOCATION SHALL (4) FEET COVER UNLESS FEET HORIZONTAL	 CRANE FOOTING LO THE EXISTING STOR STORMWATER FEATURES AF MAXIMUM FLOW RAT 	ATION: NONE WATER MANAGEMENT BMPS MUST BE PROTECTED DURING CONSTRUCT DAMAGED, THEN THE CONTRACTOR MUST REPLACE THEM IN—KIND A DOMESTIC = 52.86 GPM	TION; IF ANY EXISTING IT THEIR OWN EXPENSE.		213 W Ph	lon
- SEPARATION FROM THE RED FOR THE INSTALLATION T OF ALL APPLICATION FEES						ladelphia Kegi 215-362-2600
Developer for projects	Γ		267	ATE		
PECTOR. ORMWATER OPERATIONS AT TTN: GERALD BRIGHT, TED TO THE PROTECTION OF						
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E STABILITY OF THE PWD				NOI		
13-603, AND 25 PA CODE				EVIS		
STALLED AND MAINTAINED BY MS. GREEN STORMWATER DTECTED AND THEREBY P TO AND INCLUDING FULL				R		
/ENT SEDIMENT FROM LEAVING JST ON THE SITE AND ILES WITH EROSION CONTROL DW OR ENTER THE PUBLIC IUST SWEEP WORK SITE AT OWNER TO CLEAN				DESCRIPTION		
D E&S CONTROLS. ADJACENT TO OR WITHIN THE ENSURE PROPER PLACEMENT,				40 BY		
PER FUNCTION AND TO LS AND PROTECTION METHODS CURB—CUT INLETS.					PENNSYLVANIA ONE CALL SYSTEM. INC	 2.
					925 Irwin Run Road West Mifflin, Pennsylvania 15122 - 1078	•
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				BEF PENNS	ORE YOU DIG ANYWHE SYLVANIA! CALL 1-800-2	RE IN 242-1776
				J.B	. ANDERSO	ON
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OO	<i>EX. PROPERTY LINE EX. FENCELINE</i>	W W W W EX. WATERM. G G G БХ. GAS MA	AIN IN	I PEN	PROFESSIONAL ENGINEER DELAWARE LICENSE No. PE 154 INSYLVANIA LICENSE No. PE 0: MARYLAND LICENSE No. 2931	-38 55536 3
U/G – A/G	<pre>_ EX. CURB UNDER/ABOVE GROUND</pre>	ccccc	CONDUIT	NEX	V JERSEY LICENSE No. 24GE045 VIRGINIA LICENSE No. 0402 0457	20400 25
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LEGEND & ABBREVIATIONS

	PROPERTY BOUNDARY
95	EXISTING CONTOUR
_× 95	EXISTING SPOT ELEVATION
ОН	EXISTING OVERHEAD WIRE
G	APPROXIMATE GAS LINE
<i>W</i>	APPROXIMATE WATER LINE
C	APPROXIMATE CABLE LINE
E	APPROXIMATE ELECTRIC LINE
========	EXISTING SEWER MAIN
0	EXISTING SIGN
\mathcal{O}	EXISTING UTILITY POLE (UP)

S ()(Ē) \bowtie 100 LSA



PROP. STORM LATERAL DISTURBANCE BOUNDARY LINE PROP. BUILDING AREA PROP. CONCRETE AREA DRAINAGE FLOW SILT SOXX TEMPORARY TOPSOIL STOCKPILE CONSTRUCTION FENCE _____

TEMPORARY CONSTRUCTION ENTRANCE

SOIL EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. 2. INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT

3. PWD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL CITY-OWNED INFRASTRUCTURE IS FUNCTIONING PROPERLY. 4. INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS. 5. THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT

EXCEED 2:1. 6. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE. A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER. 7. FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SUPPORT STAKES SHALL BE SPACED AT A MAXIMUM OF 8 FEET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ½ THE ABOVE GROUND HEIGHT OF THE FILTER FENCE.

8. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET 9. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS. 10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY PWD AND PA DEP.

11. UNTIL THE SITE IS STABILIZED, ALL E&S BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS PRIOR TO ANY ANTICIPATED STORM EVENT, AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED. WILL BE REQUIRED. 12. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

PWD SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. PWD MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION. 13. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO IMPLEMENTATION. 15. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.

16. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN. 17. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES

SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. 18. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO PWD AT THE TIME OF INSPECTION.

19. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE FOLLOWING MANNER: SEDIMENT TO BE RETURNED TO SITE LANDSCAPE AREAS. 20. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE TO FIVE INCHES - SIX TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM FOUR INCHES OF

TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF TWO INCHES OF TOPSOIL. 21. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. 22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS. 23. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS

THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. 24. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. 25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. 26. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

27. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS. SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN. 28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT. THE OPERATOR SHAL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN ONE YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. 29. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF

RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. 30. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY PWD AND PA DEP 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE E&S BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS

ARE TO BE DONE ONLY DURING THE GERMINATING SEASON. 32. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS. (WHEN APPLICABLE) 3. DURING CONSTRUCTION, THE SELECTED CONTRACTOR IS EXPECTED TO FOLLOW THE PCSMP APPROVED BY PWD. NO CHANGE OF DEVIATION FROM THE APPROVED PCSMP IS PERMITTED WITHOUT PRIOR APPROVAL FROM PWD.

34. ALL WORK ASSOCIATED WITH PWD WATER CONVEYANCE AND SEWER INFRASTRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS AND CORROSION CONTROL SPECIFICATIONS", 1985 EDITION. AND "STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR SEWERS", 1985 EDITION. 35. CONTACT PWD WATER TRANSPORT RECORDS (1101 MARKET STREET, 2ND FLOOR, PHONE: 215-685-6271) FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL WATER SERVICES, METERS, AND CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES. 36. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH

THE PADEP'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. 37. A DUST CONTROL PERMIT WILL BE REQUIRED WHEN COMPLETELY DEMOLISHING A BUILDING OR STRUCTURE THAT IS MORE THAN THREE (3) STORIES, GREATER THAN FORTY (40) FEFT TALL, OR ENCOMPASSES MORE THAN TEN THOUSAND (10,000) SQUARE FEFT: COMPLETELY OR PARTIALLY DEMOLISHING ANY BUILDING OR STRUCTURE BY IMPLOSION; OR ENGAGING IN EARTHWORKS, DEFINED AS "CLEARING, GRUBBING, OR EARTH DISTURBANCE OF ANY LAND IN EXCESS OF 5,000 SQUARE FEET." 38. UTILITY LINE TRENCH EXCAVATION NOTES

A. LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY. B. WORK CREWS AND EQUIPMENT FOR TRENCHING. PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS. C. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. D. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.

E. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE. F. ÓN THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.

9. IMPORTING AND/OR EXPORTING OF FILL IS NOT ANTICIPATED FOR THE PROPOSED CONSTRUCTION OF THE SITE. HOWEVER, IF IT IS LATER DEEMED NECESSARY FOR THE SITE TO HAVE FILL IMPORTED FROM AN OFF SITE LOCATION, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL WILL RESIDE WITH THE OPERATOR. IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF SITE LOCATION, INCLUDING THE POTENTIAL OF A SPILL OR RELEASE OF A REGULATED SUBSTANCE, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS ON THE APPLICANT

ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL", DOCUMENT NUMBER 258-2182-773. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN

OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.

ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL". FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

40. CONSTRUCTION FENCING TO BE CHAIN LINK FENCE WITH PEG END/LINE STABILIZED BRACKET. NO DIGGING OR EARTH DISTURBANCE REQUIRED





GE	NEF	RAL	NOTES:	
	THIS	PLAN	REFERENCES	

A SURVEY BY:

2. OWNER/APPLICANT:

CORNERSTONE CONSULTING ENGINEERING & ARCHITECTURAL, INC. 213 W. MAIN STREET, SUITE 201, LANSDALE, PA 19446 PLAN ENTITLED: "BOUNDARY & TOPOGRAPHIC SURVEY" PLAN DATED: 8/24/2023 CITY OF PHILADELPHIA 1515 ARCH STREET, 10TH FLOOR, PHILADELPHIA PA 19102 CONTACT: APARNA PALANTINO, DEPUTY COMMISSIONER OF CAPITOL INFRASTRUCTURE PH: 215.683.0202 E-MAIL: Aparna.Palantino@phila.gov

3. PROJECT LOCATION 3101–27 N. 22ND STREET (OPA #78–5734200) INFORMATION: 2119-29 W. CLEARFIELD STREET (OPA #88-5927460) *PROPOSED LOT CONSOLIDATION TOTAL LOT AREA = 40,500 SF /0.93 AC

- 4. THE WORD "CERTIFY" OR "CERTIFICATE" AS SHOWN AND USED HEREON MEANS AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THE FACTS OF THIS PLAN AND REFERENCED SURVEY AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED.
- 5. THE DRAWING IS PREPARED BY CORNERSTONE CONSULTING ENGINEERS AND ARCHITECTURAL, INC. AND NO PART OF THIS DRAWING MAY BE REPRODUCED BY PHOTOCOPYING, RECORDING OR BY ANY OTHER MEANS, OR STORED, PROCESSED, OR TRANSMITTED IN OR BY ANY COMPUTER OR OTHER SYSTEMS WITHOUT THE PRIOR WRITTEN PERMISSION OF THE SURVEYOR, ENGINEER, ARCHITECT, OR DESIGN PROFESSIONAL. COPIES OF THIS PLAN WITHOUT A RAISED IMPRESSION OR COLOR SEAL ARE NOT VALID.
- THIS PLAN IS TO BE USED FOR GRAPHICAL REPRESENTATION OF THE PHYSICAL FEATURES OF THE PROPERTY AND NOT TO BE USED FOR CONSTRUCTION. THE BUILDING FOOTPRINT IS CONCEPTUAL ONLY AND ESTABLISHES A BUILDING ENVELOPE IN WHICH THE FINAL BUILDING FOOTPRINT WILL BE GENERALLY LOCATED. THE FINAL BUILDING FOOTPRINT SHALL BE DETERMINED AT THE TIME OF BUILDING PERMIT ISSUANCE AND SHALL BE GENERALLY AS CONFIGURED ON THE PLAN WITH AN OVERALL SQUARE FOOTAGE NOT TO EXCEED THE TOTAL SHOWN ON THE APPROVED PLAN.
- 7. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS SUPPLIED THROUGH THE PA ONE CALL SYSTEM WHICH WERE AVAILABLE AT THE TIME OF THE SURVEY. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.
- 8. BY GRAPHICAL PLOTTING ONLY THIS PROPERTY IS LOCATED IN FEMA FLOOD MAP OTHER AREAS/ ZONE X, PER MAP ENTITLED "FIRM, FLOOD INSURANCE RATE MAP, PHILADELPHIA COUNTY, PENNSYLVANIA (ALL JURISDICTIONS)," MAP NUMBER 4207570095G, EFFECTIVE JANUARY 17, 2007.
- 9. THE WATERSHED FOR THE SITE IS THE LOWER SCHUYLKILL WATERSHED.
- 10. THE ENTIRE SITE CONTAINS UB URBAN LAND (PER THE USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY).
- 11. THE APPLICANT IS PROPOSING TO CONSTRUCT A 1-STORY WITH MEZZANINE LEVEL, COMMUNITY CENTER ALONG WITH ASSOCIATED SITE IMPROVEMENTS.

SEQUENCE OF CONSTRUCTION

STANDARD NOTES 1. AT LEAST SEVEN (7) DAYS PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING. 2. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS. 3. AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION. 4. WATER PUMPED FROM WORK AREAS SHOULD BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGING TO A "SURFACE WATER".

- 1. PRE-CONSTRUCTION MEETING WITH PWD IS REQUIRED PRIOR TO ANY EARTH DISTURBANCE. THE INSPECTIONS COORDINATOR OF PWD (OFFICE 215.685.6387) MUST BE CALLED TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST SEVEN (7) DAYS PRIOR TO THE START OF CONSTRUCTION.
- 2. CONTRACTOR SHALL INITIATE CONSTRUCTION BY INSTALLING THE CONSTRUCTION ENTRANCE, SILT SOXX, INLET PROTECTION ON-SITE AND WITHIN THE ROADWAYS, AND CONSTRUCTION FENCE WITH A GATE AT THE CONSTRUCTION ENTRANCE.
- 3. FOR THE SITE WORK PHASE OF THE PROJECT, CONTRACTOR SHALL BEGIN BY DEMOLISHING THE EXISTING BUILDING AND ROUGH GRADING THE SITE / EXCAVATING THE SOIL FOR THE FOUNDATION WALLS. IF AT ANY TIME DURING EARTH MOVING ACTIVITIES, WORK IS STOPPED, THE SITE SHOULD BE STABILIZED. THE AREA IS CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED, OR THE DISTURBED AREA IS COVERED WITH AN ACCEPTABLE BMP WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION. CONTRACTOR TO STOCKPILE TOPSOIL AND INSTALL THE ASSOCIATED SILT SOXX. CONTRACTOR TO STABILIZE THE STOCKPILE WITH TEMPORARY SEEDING AS DIRECTED IN FERTILIZATION NOTES.
- 4. CONCURRENTLY WITH EXCAVATION WORK, CONTRACTOR CAN INSTALL PROPOSED UTILITY LINES.
- 5. UPON STABILIZATION OF THE SUBBASE, CONTRACTOR SHALL INSTALL BUILDING PAD AND CONCRETE. UPON ACCEPTANCE OF THE BUILDING PAD, BUILDING CONSTRUCTION MAY COMMENCE.
- 6. UPON STABILIZATION OF THE SITE, CONTRACTOR SHALL REMOVE THE EROSION AND SEDIMENTATION CONTROL MEASURES. UNTIL SUCH TIME THAT THE ENTIRE SITE HAS ACHIEVED THE STANDARD DEFINED IN #3 ABOVE, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES THAT ARE USED TO TREAT PROJECT RUNOFF MAY NOT BE REMOVED. ADDITIONALLY CONTRACTOR SHALL CLEAR ANY UNWANTED DEBRIS AND MISCELLANEOUS CONSTRUCTION MATERIAL. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER/OPERATOR SHALL CONTACT THE INSPECTIONS COORDINATOR OF PWD (215.685.6387) FOR A FINAL INSPECTION PRIOR TO THE REMOVAL OF THE E&S BMPS.



C1.4

REVISION 0

CLIENT DATA

NOT FOR CONSTRUCTION



SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT. STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

<u>PLAN VIEW</u> SILT SOXX MUST BE PLACED AROUND THE PERIMETER OF ALL STOCKPILES. IMMEDIATELY APPLY TEMPORARY SEEDING TO ALL STOCKPILES.

SOIL STOCKPILE AREA DETAIL

<u>PROFILE</u>

ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH

ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE

- MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUIVALENT.)
- ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

- CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD FACILITIES.



NOT FOR CONSTRUCTION

REVISION 0







N.T.S.



KEY JOINT BETWEEN CONC. MAT SCALE: NTS

NOTES:

1. FOR WIRE MESH, SEE GENERAL NOTE #5 2. FOR WIRE MESH CHAIRS, SEE GENERAL NOTE #6



- 7 1/2" KEY FOR 8" SLAB - 5 1/2" KEY FOR 6" SLAB – 1/2" KEY FOR 4" SLAB
- 2. RECESS KEY JOINT 1/4" FROM SURFACE TO TOP OF PLASTIC CAP ON KEY JOINT. TOOL CONCERTE EDGES 1/4" RADIUS
- 3. USE PLASTIC CAP STRIP (DAYTON SUPERIOR G-38). REMOVE CAP AFTER CONCRETE POUR.
- 4. INSTALL SELF LEVELING SEALANT USED FOR EXPANSION JOINTS, SEE EXPANSION JOINT NOTES (NOTE C).

GENERAL NOTES:	
1. CONCRETE WORK AND MATERIALS TO CONFORM TO ALL REQUIREMENTS OF THE LATEST REVISIONS OF CODES ACI 301 & ACI 318.	
 USE 4500 PSI CONCRETE (OR AS NOTED ON THE PLAN) (READY-MIXED ASTM C-94 OR MIXED-ON-JOB ACI 304), (SLUMP 2"-4", MIN WATER / CEMENT RATIO 0.4 TO 1, AIR CONTENT SHALL BE 4.5 % MIN AND 7.5% MAX). 	
3. ANCHOR BOLTS TO BE ASTM A-307 STEEL.	
 WIRE MESH TO BE ASTM A-185 ELECTRIC WELDED WIRE FABRIC (6" x 6"-W2.9 x W2.9). MESH IS TO BE OVERLAPPED 6" AND TO BE EXTENDED TO WITHIN 3" 	
OF JOINTS AND EDGE OF MAT (WIRE MESH TO BE IN FLAT SHEETS, NOT ROLLS).	
. FOR SUPPORT OF ALL WIRE MESH IN SLABS USE 2 WIRE MESH CHAIRS (MAS-CON OR EQUAL), SPACED AT 4 FT INTERVALS. 7. UNSATISFACTORY SUB-GRADE MATERIAL MUST BE REMOVED	
. FILL MATERIAL MUST MEET SPECIFICATION AST M-33 FOR CRUSHED STONE. FILL UNDER CURBS, WALKS, DRIVEWAYS AND TRASH ENCLOSURE, SHALL BE 4"	nc. 177 9-177
(MINIMUM) OF CRUSHED STONE. . CONCRETE PLACEMENT NOT PERMITTED WHEN TEMPERATURE IS BELOW 40°F AND FALLING OR BELOW 30°F AND RISING. DO NOT POUR CONCRETE IF BACKFILL IS	S, I 70-83
FROZEN.	Po Po
1. CONSTRUCTION LOADS NOT PERMITTED BEFORE 7 DAYS WITHOUT OWNER APPROVAL.	
2. THE ONLY OWNER APPROVED USE OF CONCRETE PRIOR TO 7 DAYS CURING IS THE USE OF HIGH EARLY STRENGTH CONCRETE (4000 PSI WITH ASTM C-150	1466 1 S
THE III FORTIAND CEMENT) FOR SLABS SPECIFICALLY DESIGNATED AT OPERATING LOCATIONS FOR VEHICULAR TRAFFIC AFTER 72 HOURS.	A 19, 8400
. USE HYDRAULIC CEMENT "5-STAR GROUT" OR APPROVED EQUAL FOR BASE PLATE GROUT (NON-SHRINK) AND AND BUMPER POST.	Des Com
5. REINFORCING WIRE MESH MINIMUM COVER IS 2".	Region
5. SLOPE CONCRETE MATS IN ACCORDANCE WITH GRADING PLAN.	P. Tan STONI STONI
. EAPOSED CONNERS ON CONCRETE FOOTINGS SHALL BE CHANNELLED 5/4 . 8. VOIDS ON ANY FORMED CONCRETE SURFACES ARE TO BE POINTED-UP WITH 1:2 CEMENT MORTAR MIX AND ALL SURFACES WETTED AND RUBBED WITH	h Va h Va h Va
CARBORUNDRUM BRICK OR OTHER ABRASIVE UNTIL UNIFORM COLOR AND TEXTURE IS PRODUCED. O. CONCRETE SEALER • ALL HORIZONTAL CONCRETE SHOULD BE SEALED WITH V-SEAL 102 EXCEPT STAMPED CONCRETE	Lehig
 ALL HORIZONTAL STAMPED CONCRETE SHOULD BE SEALED WITH V-SEAL 101 W.R. MEADOWS VOCOMP-30 WILL BE REPLACED BY V-SEAL 102 FOR ALL CONCRETE SEALING APPLICATIONS V-SEAL SHOULD BE APPLIED ACCORDING TO THE ATTACHED APPLICATION SPECIFICATIONS. NEW CONCRETE: O APPLY V-SEAL 102 AS A CURING AGENT AFTER ALL BLEED WATER IS GONE FINISHING IS COMPLETE AND CONCRETE CAN WITHSTAND THE WEIGHT OF A 	ting I Phone:
PERSON WITHOUT MARRING BROOMED SURFACE. (DEPENDING ON ATMOSPHERIC CONDITIONS CURING CAN VARY FROM 3–12 HOURS FROM FINAL FINISHING.) NEWLY POURED CONCRETE SHOULD NOT BE SUBJECTED TO RAIN OR OTHER SOURCES OF WATER PRIOR TO OBTAINING SURFACE HARDNESS. APPLY UNIFORMLY USING A LOW PRESSURE SPRAYER. COVERAGE RATE DEPENDS OF POROSITY OF CONCRETE. THE PRODUCT SHOULD PRODUCE AN EVEN WET SHEEN WITH NO PUDDLES. PUDDLES SHOULD BE IMMEDIATELY DISPERSED WITH LIGHT ROLLING, BEING CAREFUL NOT TO MAR SURFACE. PRODUCT SHOULD BE COMPLETELY ABSORBED IN APPROXIMATELY 1 MINUTE LEAVING A CLEAR FINISH. SURFACE SHOULD BE DRY TO TOUCH IN 1–3 HOURS, BUT SHOULD NOT	Consul Consul ² ² ⁸⁰⁰
BE WALKED ON FOR AT LEAST 6 HOURS. O A SECOND COAT OF V-SEAL 102 SHOULD BE APPLIED WITHIN 7 TO 10 DAYS OF THE FIRST COAT USING A LOW PRESSURE SPRAYER AND BACK ROLLING FOR BETTER ABSORPTION. CONCRETE SHOULD BE DRY TO THE TOUCH AFTER 3 HOURS AND CAN BE OPENED TO TRAFFIC IN 6-12 HOURS (DEPENDING ON ABSORPTION AND DRYING RATE)	adelphia] 215-362-2(
EXISTING CONCRETE: 0 ENSURE SURFACE IS CLEAN AND FREE OF DIRT, OIL, MILDEW, PAINT, AND TOPICAL COATINGS. ALSO ENSURE THAT SURFACE IS DRY. APPLY V-SEAL 102 WITH A LOW PRESSURE SPRAYER. SPECIFIC COVERAGE RATE IS BASED UPON SUBSTRATE POROSITY. THE PRODUCT SHOULD PRODUCE AN EVEN WET SHEEN WITH A LOW PRESSURE SPRAYER. SPECIFIC COVERAGE RATE IS BASED UPON SUBSTRATE POROSITY. THE PRODUCT SHOULD PRODUCE AN EVEN WET SHEEN	Phil
WITH NO PUDDLES. PUDDLES SHOULD BE IMMEDIATELY DISPERSED WITH LIGHT ROLLING. PRODUCT SHOULD BE COMPLETELY ABSORBED IN APPROXIMATELY 1 MINUTE LEAVING A CLEAR FINISH. CONCRETE SHOULD BE DRY TO THE TOUCH AFTER 3 HOURS AND CAN BE OPENED TO TRAFFIC IN 6–12 HOURS (DEPENDING ON ABSORPTION AND DRYING RATE)	DATE 1/2/202
N TYPE 1 FLEXABLE FOAM EXPANSION JOINT CERAMAR AS MFG. BY W.R. MEADOWS OR EQUIVALENT USED TO FOLLOW CURB OF ISLAND FORM AND COLUMNS.	
RECESS EXP JOINT. 1/4" FROM SURFACE	$\mathbf{\tilde{N}}$
3) TYPE 2 FIBER EXPANSION JOINT COMPOSED OF CELLULAR FIBERS BONDED WITH ASPHALT AS MFG. BY W.R. MEADOWS OR EQUIVALENT. (SEALTIGHT FIBERS EXPANSION JOINT FILLER CAPPED WITH W.R. MEADOWS SNAP CAP 1/2" SIZE) RECESS EXP JOINT, 1/4" FROM SURFACE.	SIO
) SEALANT USED FOR EXPANSION JOINTS TYPE 1 AND TYPE 2 ARE SPECIFIED AS: "THC" 900/901 MANUFACTURED BY TREMCO SEALTIGHT GARDOX MANUFACTURED BY W.R. MEADOWS SIKA SINGLE COMPONENT URETHANE SEALANT "1A" IS RESISTANT TO OIL AND GAS, AND IS SELF LEVELING AND GUNABLE NON-SAGGING	EAI
TYPE. (COLOR: GRAY)	
	NOL
	SCRIP
	D
	BY
	OX IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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	CONSTRUCTION DOCUMENTS
	FOR REBUILD - VINCENT G. PANATI
	PLAY GROUND
	W. LIPPINCOTT & N. 22ND STREET CITY OF PHILADELPHIA PENNSYLVANIA, 19132
	PREPARED FOR:
	CITY OF PHILADEPHIA TITI F
	DETAILS
	PROJ. # 23-0501 DATE 02/05/2024 CAD ID. 23-0501 DRN RV MD
	SCALE AS NOTED CHK BY JBA
	C1.7
NOT FOR CONSTRUCTION	REVISION 0

CLIENT DATA





D

2. ALL DIMENSIONS	
COLUMINO, AND	HE CENTERLINE OF MULLIONS UON.
3. DIMENSIONS MA FROM THE INDIC	KED " + / - " MEAN A TOLERANCE OF NOT GREATER THAN 2 INCHE TED DIMENSION UON.

D







NET	DESCRIPTION
7.01	STANDING SEAM METAL ROOF
7.02	SCUPPER AND DOWNSPOUT
7.04	MEMBRANE ROOF
7.07	CRICKET
8.01	SKYLIGHT
11.04	KITCHEN HOOD EXHAUST FAN - SEE MEP & F.S. DWGS
12.02	TRASH ENCLOSURE
12.05	BENCH
26.01	EXTERIOR WALL MOUNTED LIGHT FIXTURE
32.01	NEW FENCE TO MATCH EXISTING
32.02	NEW FENCE GATE TO MATCH EXISTING







5.05
5.07
8.02
8.05
10.04
10.05
10.06
10.07
22.01
32 01



KEY	
5.05	
5.06	
5.07	
7.04	
7.07	
8.01	
8.05	
8.08	
11 02	







NEV	WWORK GENERAL NOTES	KE
1.	CONTRACTOR TO VERIFY ALL FIELD DIMENSIONS AND INFORM ARCHITECT OF ALL DISCREPANCIES PRIOR TO COMMENCEMENT OF ALL WORK	k
2.	ALL DIMENSIONS ARE TO THE FINISHED FACE OF PARTITIONS, CENTERLINE OF	4
3	COLUMINS, AND THE CENTERLINE OF MULLIONS UON. DIMENSIONS MARKED " + / - " MEAN A TOLERANCE OF NOT GREATER THAN 2 INCHES	5
5.	FROM THE INDICATED DIMENSION UON.	5
		7
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D



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KEYN
KEY
4.01
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5.04
7.02
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8.01
8.04
8.06
8.08
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12.02
22.02
26.01
32.01















D1 WALL SECTION 11 1/2" = 1'-0"



B



D2 WALL SECTION 10 1/2" = 1'-0"







100



D4 WALL SECTION 8 1/2" = 1'-0"







В

С







KITCHEN - RM 113 INT ELEV 1 1/4" = 1'-0"

D4



C3 ALL-GENDER RESTROOM - RM 103 INT ELEV 2 1/4" = 1'-0"



C4 ALL-GENDER RESTROOM - RM 103 INT ELEV 1 1/4" = 1'-0"





1' - 6"

1/4" = 1'-0"

MENS - RM 107 INT ELEV 1



<u>MENS - RM 107 INT ELEV 2</u>

1/4" = 1'-0"

B3











4

6

2

(20)

B4



EQ

1' - 6"

-**o**---**o**

EQ

- EPOXY FLOOR

AND BASE



E2 INT ELEV LOBBY - GYM 1/4" = 1'-0"

	(21)

D2 INT ELEV LOBBY - OFFICE 1/4" = 1'-0"

BB	GROUND FACE CMU	
GROUND FACE CMU		

C2 INT ELEV FROM LOBBY - MP WALL 1/4" = 1'-0"

	-





A2 GARBAGE SHED ELEVATION 4 1/4" = 1'-0"

2

CORRUGATED METAL ROOF ORNAMENTAL PICKET FENCE — COMPOSITE SIDING •

С

D

3













A501



B

С



INSULATION R-VALUE R-30ci		
OSURE 1; R TO SOARDS " 0.C. DEPTH REQ'D BY FLOORING MANF 2 1/8" T.O. CONC. SLAB	NOTE: SEE STRUCTURAL DRAWIN FOR REINFORCING	CAST-IN-PLACE CONCRETE
ETE SLAB ON GRADE	FL3 CONCRETE SLAB OVER METAL DECK 1 1/2" = 1'-0"	<u> </u>
R-13 MIN.	CO NS 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	RRUGATED GALV. METAL SIDING - TALL PER MANUF. SPECS " RECOVERY BOARD CONTINUOUS RIGID INSULATION BOARD JID APPLIED VAPOR PERMEABLE & WATER BARRIER NOM. CONC MASONRY UNITS TERIOR PTD. OUT SOLID AND REINFORCE AS ECIFIED IN LOCATIONS SHOWN ON RUCTURAL DRAWINGS
R-13Cav + R-7ci	EW3 EXTERIOR WALL ASSEMBLY - TYPE E 1 1/2" = 1'-0"	INSULATI F

INSULATION R-VALUE

R-20ci



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В







FLUID APPLIED VAPOR PERMEABLE AIR & WATER BARRIER ___.__. CONTINUOUS MORTAR COLLECTION MESH SELF-ADHESIVE TRANSITION MEMBRANE; CONTINUOUS AT HEAD, JAMBS, & SILL PTD. CORROSION PROTECTED ANGLE -SEE STRUCTURAL DWGS FOR SIZING SHEET METAL HEAD FLASHING WITH 1/2" HEMMED DRIP EDGE AND END DAMS BEYOND SHEET-METAL TRIM OPERABLE METAL SECURITY SCREEN AS SCHEDULED

- 3/8" SHIM W/ SEALANT AND BACKER ROD EA SIDE WINDOW AS SCHEDULED
- CONTINUOUS BACK DAM ANGLE AT ROUGH OPENING PERIMETER, MINIMUM 1 INCH TALL

OPERABLE METAL SECURITY SCREEN AS SCHEDULED - CAST STONE SILL

SEALANT AND BACKER ROD EA SIDE

THRU-WALL FLASHING UNDER SILL W/ VERTICAL END DAM @ BOTH ENDS OF SILL

WOOD BLOCKING & SHIM AS REQUIRED

PTD. CORROSION PROTECTED ANGLE - SEE STRUCTURAL DWGS FOR SIZING

SELF-ADHESIVE TRANSITION MEMBRANE

FLUID APPLIED VAPOR PERMEABLE AIR & WATER BARRIER

3/8" SHIM W/ SEALANT AND BACKER ROD EA SIDE CONTINUOUS BACK DAM ANGLE AT

ROUGH OPENING PERIMETER, MINIMUM 1 INCH TALL

ERFORATED OPERABLE TL SECURITY SCREEN EA SIDE	
ONTINUOUS BACK DAM ANGLE AT ROUGH PENING PERIMETER, MINIMUM 1 INCH TALL. ASTEN WINDOW THROUGH BACK DAM ANGLE ER WINDOW MANF	
8" SHIM W/ SEALANT AND BACKER ROD EA SIDE	-
LOPED CAST STONE SILL W/ DRIP EDGE	
ELF-ADHESIVE TRANSITION EMBRANE	1/2"- -
TD. CORROSION PROTECTED ANGLE EE STRUCTURAL DWGS FOR SIZING	
' OVERHANG	
EEP HOLES @ 24" O.C. HORIZ.	
HRU-WALL METAL FLASHING W/ DRIP EDGE AND ND DAM	



3/8" SHIM W/ SEALANT AND BACKER ROD EA SIDE SLOPED CAST STONE SILL W/ DRIP EDGE

SELF-ADHESIVE TRANSITION MEMBRANE

-----PTD. CORROSION PROTECTED ANGLE -SEE STRUCTURAL DWGS FOR SIZING -1/2" OVERHANG

WEEP HOLES @ 24" O.C. HORIZ.

THRU-WALL METAL FLASHING W/ DRIP EDGE AND END DAM

FLUID APPLIED VAPOR PERMEABLE AIR & WATER BARRIER

TYP. MASONRY TIE(S)

WOOD BLOCKING & SHIM AS REQUIRED

5/4 FIBERCEMENT SILL (EASE FRONT EDGE) _ANCHOR WITH 2" TAPCONS (COUNTERSUNK), STAGGERED @ 16" O.C.



3" = 1'-0"

TYPICAL WINDOW - HEAD DETAIL



BEYOND SHEET-METAL TRIM 3/8" SHIM W/ SEALANT AND BACKER ROD EA SIDE

CONTINUOUS BACK DAM ANGLE AT ROUGH

OPENING PERIMETER, MINIMUM 1 INCH TALL

SEALANT AND BACKER ROD EA SIDE

THRU-WALL FLASHING UNDER SILL W/

WOOD BLOCKING & SHIM AS REQUIRED

PTD. CORROSION PROTECTED ANGLE

SELF-ADHESIVE TRANSITION

FLUID APPLIED VAPOR PERMEABLE

- 3/8" SHIM W/ SEALANT AND BACKER

MEMBRANE

AIR & WATER BARRIER

ROD EA SIDE

- SEE STRUCTURAL DWGS FOR SIZING

VERTICAL END DAM @ BOTH ENDS OF SILL

WINDOW AS SCHEDULED

- CAST STONE SILL

PTD. CORROSION PROTECTED ANGLE -SEE STRUCTURAL DWGS FOR SIZING SHEET METAL HEAD FLASHING WITH 1/2" HEMMED DRIP EDGE AND END DAMS

CONTINUOUS MORTAR COLLECTION MESH SELF-ADHESIVE TRANSITION MEMBRANE; CONTINUOUS AT HEAD, JAMBS, & SILL

FLUID APPLIED VAPOR PERMEABLE **AIR & WATER BARRIER ___** • **__** • **___**

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105B WOMEN				GIGAUA
				a i G if i C dG i G G C y i A i i i i g 1960 (gatha saiser) shun i i i - Printoleuzen an Inne - 20, sar 1600
MEN				
		MULTI-PURPO	SE	
				<u> </u>
				J. I D D. I. I. P. A. I.
GEN STOR ALL-GENDER				
	8'-0"			
			MAKER SPACE	
		COMMUNITY KITCHEN		
OFFICE				PL -
				H S/R -27 I
месн				3101 3101
105A				Bl
				E C
				VERIFY SCALE
				0 BAR IS ONE (1) INCH LONG
	DOO			
NUMBER NAME	WALL FINISH FLOOR FINISH	BASE FINISH CEILING FINISH	COMMENTS	
100 VESTIBLII F	PTD MASONRY POLISHED CONCRETE*	- ACOUSTIC METAL DECK	*8'x12' LOOSE-LAY WALK-OFF MAT	ption
101 LOBBY 102 OFFICE	GROUND FACE CMU POLISHED CONCRETE*	- ACOUSTIC METAL DECK	*8'x10' LOOSE-LAY WALK-OFF MAT. SEE PLAN AND SPECS.	escrij
102A CLOSET 103 ALL-GENDER RESTROOM	PTD CMU POLISHED CONCRETE PTD CMU POLISHED CONCRETE	- EXPOSED - ACOUSTIC METAL DECK		
104 GEN STOR 105 GYM WITH HALF COURT BASKETBALL	PTD CMU POLISHED CONCRETE	- EXPOSED VENTED COVE ACOUSTIC METAL DECK	*SEE SECTIONS FOR EXTENT OF CMU AND ACOUSTIC CMU. GYM FLOOR PROTECTION SYSTEM	By
105A MECH 105B GYM EQUIP STORAGE	PTD CMU POLISHED CONCRETE PTD CMU POLISHED CONCRETE	- EXPOSED - EXPOSED	STORAGE RACK	
106 WOMEN 107 MEN	PTD CMU EPOXY PTD CMU EPOXY	EPOXY BASE ACOUSTIC METAL DECK EPOXY BASE ACOUSTIC METAL DECK		Date
108 JC 109 MULTI-PURPOSE	PTD CMU POLISHED CONCRETE PTD CMU POLISHED CONCRETE	- EXPOSED - ACOUSTIC METAL DECK		No.
109A CLOSET 110 MAKER SPACE	PTD CMU POLISHED CONCRETE PTD CMU POLISHED CONCRETE	- EXPOSED - ACOUSTIC METAL DECK		Date 02/05/2024 Seclar 2/1/01
111 COMMUNITY KITCHEN 112 MECH	PTD CMU EPOXY PTD CMU*/LOUVERS CONCRETE	EPOXY BASE ACOUSTIC METAL DECK - EXPOSED	SEE PLAN FOR EXTENT OF CMU AND LOUVERS	Scale: $3/16^{\circ} = 1^{\circ}-0^{\circ}$ Job No. 604.2
113 MECH	PTD CMU*/LOUVERS ROOFING	- EXPOSED	SEE PLAN FOR EXTENT OF CMU AND LOUVERS	Drawn: NB, KN Appd.: CS
				Sheet Title:
				FINISH & FURNITURE
				Sheet No.

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A810





Α

2

ROOF FLASHING STRIP

GLAZING LEGEND GL-1: INSULATED GLASS GL-2: LAMINATED GLASS GL-3: MONOLITHIC GLASS

COORD. WITH

DOOR

SCHEDULE

EQ 4' - 11 1/2" GL-1 4' - 11 1/2"







			INTERIOR OR				DOOR		FRAME	FRAME		HEAD	JAMB		HARDWARE	
DOOR No.	ROOM	TYPE	EXTERIOR	WIDTH	HEIGHT	THICKNESS	MT'L	FINISH	TYPE	MT'L	GLAZING	DT'L	DT'L	SILL DT'L	SET	COMMENTS
100/A	VESTIBULE	2C	Exterior	6' - 0"	7' - 10"	0' - 1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1	D4/A930	B4/A610	E4/A930	07	
101/A	LOBBY	2C	Exterior	6' - 0"	7' - 10"	0' - 1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1	D4/A930	A4/A610	E4/A930	07	
101/B	LOBBY	2C	Interior	6' - 0"	7' - 10"	0' - 1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1	D3/A930	A2/A610	E3/A930	07	
102/A	OFFICE	C	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	ALUM	CLEAR ANODIZED	1	ALUM	GL-2	B1/A620	C4/A610	E3/A930	01	
102A/A	CLOSET	2A	Interior	5' - 8"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	03A	
103/A	ALL-GENDER RESTROOM	D	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	02	
104/A	GEN STOR	A	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	03	
105/A	GYM WITH HALF COURT BASKETBALL	2B	Interior	6' - 4"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	GL-3	B3/A930	B1/A930	E2/A930	05	
105/B	GYM WITH HALF COURT BASKETBALL	A	Exterior	3' - 0"	7' - 10"	0' - 1 3/4"	SSTL	SATIN	1	SSTL	-	C1/A930	D1/A930	E1/A930	11	
105A/A	MECH	2A	Interior	5' - 8"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	E2/A930	04	
105B/A	GYM EQUIP STORAGE	2A	Interior	6' - 4"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	E2/A930	03A	
106/A	WOMEN	D	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	09	
107/A	MEN	D	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	09	
108/A	JC	A	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	03	
109/A	MULTI-PURPOSE	2B	Interior	6' - 4"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	GL-3	B3/A930	B1/A930	-	05	
109/B	MULTI-PURPOSE	С	Exterior	3' - 0"	7' - 10"	0' - 1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1	D2/A930	B4/A610	C2/A930	11	
109A/A	CLOSET	2A	Interior	7' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	03A	
110/A	MAKER SPACE	В	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	GL-3	B3/A930	B1/A930	-	10	
110/B	MAKER SPACE	A	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	10	
111/A	COMMUNITY KITCHEN	В	Interior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	GL-3	B3/A930	B1/A930	-	01	
112/A	МЕСН	A	Exterior	3' - 0"	7' - 10"	0' - 1 3/4"	HM	PTD	1	HM	-	C6/A930	D6/A930	E6/A930	04	

00	OR	S(CH	ED)U	LE	

D

SIGNAGE AT TYPICAL PULL SIDE DOOR





SIGNAGE AT TYPICAL PUSH SIDE DOOR

<u>CORRIDOR</u>









12"

UU WOMEN

8"





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FOOTING MARK	DIMENSIONS LxWxTHK	REINFORCING
F45	4'-6" x 4'-6" x 30"	(5) #6 EACH WAY TOP & BOTT
F5	5'-0" x 5'-0" x 18"	(5) #6 EACH WAY BOTT


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S1.2

























				С	OLUMN S				
COLUMN MARK	A/4, A/6		B/1, B/9	B/1, B/9					
T.O. COLUMN									
T.O. COLUMN (+)23'-9 1/2"									
B.O. COLUMN									
B.O. COLUMN (+)12'-4" (MEZZ)			3x8x1/4		x6x1/4				
T.O. COLUMN	SS 8x8x1		HSS 8		HSS 6				
FINISH FLOOR	Ϋ́								
T.O. FDN (-)0'-8"									
T.O. FDN		ſ							
BASE PLATE BB IN THK	14' 14' 1"		1, 1, 1, 1	4" 4" '	1: 1: 1: 1'				
BASE PLATE TYPE	TYPE	Ξ1	TYI	PE 1	TYF				
ANCHOR BOLTS	(4) 3/4' F1554-55	DIA RODS	(4) 3/4 F1554-5	4" DIA 5 RODS	(4) 3/4 F1554-5				





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S2.2

D'HUY





	LINTEL SCHE	DULE (NON LOAD B	BEARING WALLS)			
WALL		CLEAR §	SPAN			
THICKNESS 3-5/8"	4'-0" OR LESS	4'-1" TO 5'-4" L5x3-1/2x5/16 LLV	5'-5" TO 6'-4" L5x3-1/2x5/16 LLV	6'-5" TO 8'-0" L5x3-1/2x3/8 LLV		
	or L6x6x5/16 6x6x5/16 ANGLE LIN	OF L6x6x5/16 TEL AS SHOWN OR REQUIRE	OF L6x6x5/16 D BY ARCH, COORD w/ SECT	OF L6x6x5/16		
5-5/8	2 L 3-1/2x2-1/2x5/16	2 L 3-1/2x2-1/2x5/16	2 L 3-1/2x2-1/2x3/8	2 L 3-1/2x2-1/2x3/8		
7-5/8	2 L 4x3-1/2x5/16	2 L 4x3-1/2x5/16	2 L 5x3-1/2x5/16	2 L 5x3-1/2x3/8		
11-5/8	3 L 4x3-1/2x5/16	3 L 4x3-1/2x5/16	3 L 5x3-1/2x5/16	W8x18 w/ ₱_11x3/8		
11-5/8 ALTERNATE	3/8" PLATE ASSEMBLY	3/8" PLATE ASSEM	3/8" PLATE ASSEM	3/8" PLATE ASSEM		
1'-4"	3/8" PLATE ASSEMBLY w/ SEE "EXTERIOR PLATE LINT!	VENEER ANGLE EL" DETAIL AT RIGHT	TO 6'-6" M.O.			
1'-8"	3/8" PLATE ASSEMBLY w	/ VENEER ANGLES	TO 6'-6" M.O.			
ABOVE ALL EXT OR AS SPECIFIE ABOVE ALL EXT OR AS SPECIFIE ABOVE ALL MET SCHEDULE TO E ABOVE ALL OPE MASONRY WALL ABOVE ALL HEA ABOVE ALL BUIL LOUVERS, ACCE AT ALL LOCATIO	FRACTOR SHALL PROVIDE STEEI VCLUDING, BUT NOT LIMITED TO ERIOR WALL OPENINGS. LINTELS D BY ARCH. FAL FRAMES IN MASONRY WALLS FRAMED WITH STUDS AND GY ININGS, PASSAGES, ROLL-UP OF LS. VTING DUCTS PASSING THROUGI LT-IN ITEMS (SUCH AS CABINET I ESS PANELS, ETC.) DNS WHERE NOTED ON THE PLA	LINTELS IN ALL OPENINGS THE FOLLOWING: S TO BE HOT DIP GALVANIZE (UNLESS NOTED ON THE D (PSUM BOARD.) NOVERHEAD DOORS, IN H MASONRY WALLS. HEATERS, CONVECTORS, NS AND/OR WALL SECTIONS (E, LENGTHS TO BE THE FUL	IN ED, DOOR <u>1/2" W S.</u> L	ANIPEI	O" WIDTH 1/2" (OR AS DETAILED AND REQUIRED BY ARCH FOR CLOSURE)	13/ BE OV PR GF BE
PENING AND MININ	/IUM 8" BEARING ON EACH END. CTOR SHALL COORDINATE OPEN	INGS WITH PLUMBING.			EXTERIOR PLATE LINTEL	PL
L ANGLE INSTALL <u>L EXTERIOR LIN</u> PECS	ED LONG LEG VERTICAL UNLESS	3 NOTED OTHERWISE	RCH CHAMFEF MASONRY WHERE R	EQ'D		PLA MAF BF BF
\sim						
1 S3.3 S	LINTEL SCHEI scale: none	<u>JULE, NUTE</u>	S AND DETA	AILS		2 S3.3
TASTEN	LINTEL SCHEI SCALE: NONE <u> 1 1/2" TYP 1 1/2" TYP </u> w/ (4) 3/4"dia	DULE, NOTE	MN, SEE SCHEDULE	AILS		2 S3.3 SEE PLAN BEAM ANI COLUMN
1 S3.3 FASTEN BOLTS C LINES, 2	LINTEL SCHEI SCALE: NONE 1 1/2" TYP 1 1/2" TYP 1 1/2" TYP W/ (4) 3/4"dia W/ (4) 3/4"dia PER SIDE. BASE PLATE LENGTH AS WIDTH (- 14)	DULE, NOTE COLU COLU 1/2" th LENGTH JENGTH SIDES COLU EDGE PLATE INDICATED X SS DEPTH + ¹ " MINI	MN, SEE SCHEDULE k BASE PLATE k STIFF PLATE, BOTH c, ON CENTERLINE OF MN. EXTEND STIFF TO OF COLUMN BASE	AILS		2 S3.3 SEE PLAN BEAM ANI COLUMN BOL
I S3.3 FASTEN BOLTS C LINES, 2	LINTEL SCHEI SCALE: NONE	DULE, NOTE COLU 1/2" th LENGTH JANGTH	MN, SEE SCHEDULE k BASE PLATE k STIFF PLATE, BOTH S, ON CENTERLINE OF MN. EXTEND STIFF TO OF COLUMN BASE E.	AILS		2 S3.3 SEE PLAN BEAM ANI COLUMN BOL COLUMN PLATE TO MATCH FL



Sheet No.

Sheet Title:

Date

02/05/2024

Drawn: PMG Appd.: PMG

FRAMING DETAILS

S3.3

Scale: NOTED Job No. 725002

PPR/REBUILD PHILADELPHIA 3101-27 N 22ND ST, PHILADELPHIA, PA 19132

ND ST, PHILADE

3101-27

CONTRACTOR SHALL PROVIDE TEMPORARY SHOR MAKE SAFE ALL FLOORS, ROOFS, WALLS, AND ADJ PROJECT CONDITIONS REQUIRE SHOPING AND ST	ING, BRACING, SHEETING, AND ACENT PROPERTY AS IFETING SHALL BE DESIGNED	
BY A REGISTERED PROFESSIONAL ENGINEER LICE JURISDICTION HIRED BY THE CONTRACTOR WHO S	SHALL SUBMIT SHOP DRAWINGS	
THE STRUCTURAL COMPONENTS HAVE BEEN DESI	IGNED FOR THE FOLLOWING	
LIVE LOADS: SNOW LOAD DESIGN DATA		
GROUND SNOW LOAD - Pg FLAT ROOF SNOW LOAD - Pf	25 PSF 25 PSF + DRIFT	
SNOW EXPOSURE FACTOR - Ce SNOW LOAD IMPORTANCE FACTOR - Is THERMAL FACTOR - Ct	1.0 1.0 1.0	
DRIFT SURCHARGE LOAD - N-S DRIFT WIDTH - N-S	44 PSF 8.0 FT	
DRIFT SURCHARGE LOAD - E-W DIRFT WIDTH - E-W	44 PSF 5.0 FT	
WIND DESIGN DATA BASIC WIND SPEED - Vult	112 MPH	
BASIC WIND SPEED - Vasd RISK CATEGORY	87 MPH II	
WIND EXPOSURE INTERNAL PRESSURE COEFFICIENT, GCpi	B ±0.18	
EARTHQUAKE DESIGN DATA	421 01	
SEISMIC IMPORTANCE FACTOR - Ie MAPPED SPECTRAL RESPONSE ACCEL., SS MAPPED SPECTRAL RESPONSE ACCEL., S1	1.00 0.182 0.047	
SITE CLASS SPECTRAL RESPONSE COEFFICIENT, SDS	"D" 0.194	
SPECTRAL RESPONSE COEFFICIENT, SD1 SEISMIC DESIGN CATEGORY	0.076 "В"	
"ORDINARY REINFORCED MASONRY S RESPONSE MODIFICATION FACTORS. R	SHEAR WALLS" 2.0	
ANALYSIS PROCEDURE - EQUIV. LATERAL FOR	RCE PROCEDURE	
FLOOR LIVE LOADS MECHANICAL ROOMS	100 PSF	
SLAB ON GRADE	100 PSF	
SOME DETAILS OF THE WORK ARE SHOWN ON THE A CAREFUL REVIEW AND STUDY OF THESE DETAIL	E ARCHITECTURAL DRAWINGS. S IS NECESSARY BEFORE THE	
STRUCTURAL MEMBERS SHOWN DEPICT SIZES AN	ے۔ D APPROXIMATE LOCATIONS	
ONLY. ROOF CONFIGURATIONS, SLOPES, DIMENSI BE VERIFIED AND COORDINATED BY THE CONTRAC ARCHITECTURAL AND MECHANICAL DRAWINGS.	ONS AND ELEVATIONS ARE TO CTOR WITH THE	
PRINCIPAL OPENINGS IN THE STRUCTURE AND BU ON THE CONTRACT DOCUMENTS. REFER TO AND	ILDING ENVELOPE ARE SHOWN COORDINATE WITH	
SLEEVES, CURBS, INLETS, ETC. NOT INDICATED ON LOCATION OF SLEEVES OR OPENINGS IN STRUCTU	T LOWING DRAWINGS FOR N THESE DRAWINGS. THE JRAL MEMBERS SHALL BE	
APPROVED BY THE STRUCTURAL ENGINEER PRIOF		
THIS STRUCTURE HAS BEEN DESIGNED TO BE SEL AFTER THE CONSTRUCTION OF THE BUILDING HAS STABILITY OF THE STRUCTURE PRIOR TO COMPLE	F-SUPPORTING AND STABLE S BEEN COMPLETED. THE TION IS SOLELY THE	
RESPONSIBILITY OF THE CONTRACTOR. THIS RES RELATED ASPECTS OF THE CONSTRUCTION ACTIV	PONSIBILITY EXTENDS TO ALL ITY INCLUDING, BUT NOT	
LIMITED TO, ERECTION METHODS, ERECTION SEQU FORMS, SHORING, USE OF EQUIPMENT, AND SIMIL	JENCE, TEMPORARY BRACING, AR CONSTRUCTION	
DOCUMENTS. LACK OF COMMENT ON THE PART O REGARD TO CONSTRUCTION PROCEDURES IS NOT	F THE ENGINEER WITH	
APPROVAL OF THOSE PROCEDURES.		
JOB SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONSTRUCTION BY THE ENGINEER IS FOR ASPECTS ONLY, NOT TO REVIEW THE CONTRACTO	OF THE CONTRACTOR, REVIEW CONFORMANCE WITH DESIGN	
SAFETY. GUIDELINES FOR CONSTRUCTION SAFET WITH, BUT NOT LIMITED TO, THE CONSTRUCTION I	Y SHALL BE IN ACCORDANCE NDUSTRY OSHA SAFETY AND	
HEALTH STANDARDS (1926 STANDARDS), AND ANY CODES THAT MIGHT APPLY. LACK OF COMMENT O WITH REGARD TO JOB SITE SAFETY IS NOT TO BE OF JOB SITE SAFETY ASPECTS	LOCAL ORDINANCES OR IN THE PART OF THE ENGINEER INTERPRETED AS APPROVAL	
THE STRUCTURAL DRAWINGS ARE TO BE USED IN COORDINATION WITH THE ARCHITECTURAL. MECH	CONJUNCTION AND ANICAL, ELECTRICAL, AND	
PLUMBING DRAWINGS.		
PERFORMED BY AN APPROVED AGENCY, IN CONTE THE CONTRACTOR SHALL COORDINATE THE REQU WITH THE WORK AND SHALL NOT CONCEAL WORK INSPECTIONS HAVE BEEN COMPLETED AND THE W	RACT WITH THE CONTRACTOR. JIRED SPECIAL INSPECTIONS UNTIL THE REQUIRED YORK APPROVED.	
STRUCTURAL OBSERVATIONS PERFORMED BY THI CONSTRUCTION DO NOT CONSTITUTE CONTINUO	E ENGINEER DURING JS OR SPECIAL INSPECTION	
SERVICES REQUIRED INSPECTIONS REMAIN THE BUILDING INSPECTOR OR TESTING AGENCY IDENT	RESPONSIBILITY OF THE IFIED. STRUCTURAL	
UBSERVATIONS PERFORMED BY THE ENGINEER D SUPERVISION OF CONSTRUCTION AND DO NOT GU CONTRACTOR	U NUT CONSTITUTE JARANTEE THE WORK OF THE	
IT IS EACH CONTRACTOR'S RESPONSIBILITY TO PE	RFORM ALL WORK IN	
ACCORDANCE WITH THE FEDERAL, STATE, AND LC ORDINANCES AND REGULATIONS IN ANY MANNER	OCAL LAWS, BYLAWS, AFFECTING THE CONDUCT OF	
PROMULGATED OR ENACTED BY ANY LEGAL BODIE AUTHORITY OR JURISDICTION OVER THE WORK M	ES OR TRIBUNALS HAVING ATERIALS, EMPLOYEES, OR	
CONTRACT.		
IF FAULTY CONSTRUCTION PROCEDURES, OR MAT WORK THAT REQUIRES ADDITIONAL ENGINEERING MEASURES, PROFESSIONAL FFFS MAY BE CHARGE	ERIAL, RESULT IN DEFECTIVE TIME TO DEVISE CORRECTIVE TO THE CONTRACTOR AT	
THE STANDARD HOURLY RATE OF ADDITIONAL SEE WITHHELD FROM THE CONTRACTORS PAYMENT. R	RVICES. SUCH FEES MAY BE REFER TO GENERAL	
CONDITIONS SECTION OF THE PROJECT SPECIFIC	ATIONS.	
WORK. IF EXISTING CONDITIONS DO NOT PERMIT T WORK IN ACCORDANCE WITH THE DETAILS AS SHO	THE INSTALLATION OF THE DWN, THE CONTRACTOR SHALL	
NOTIFY THE ARCHITECT IMMEDIATELY AND PROVID THE CONDITION, INCLUDING A PROPOSED MODIFIC REVIEW AND APPROVAL	DE AN ACCURATE SKETCH OF CATION OR CORRECTION, FOR	
UNLESS NOTED OTHERWISE IN THE CONTRACT DO	OCUMENTS, THE GENERAL	
CONTRACTOR IS RESPONSIBLE FOR PROVIDING AI MISCELLANEOUS STEEL, AND LOOSE LINTELS THA	LL STRUCTURAL STEEL, T ARE NECESSARY TO FOURMENT, MASONEY WALL	
OPENINGS AND FLOOR AND ROOF OPENINGS. THE RESPONSIBLE FOR REVIEWING ALL DRAWINGS OF	E GENERAL CONTRACTOR IS ALL PRIME CONTRACTS TO	
DETERMINE THE QUANTITY, SIZE, AND LOCATIONS ALL MASONRY OPENINGS, AND ALL FLOOR AND RC	OF ALL ROOF TOP EQUIPMENT, DOF OPENINGS.	
THESE DRAWINGS ARE SUPPLEMENTED BY A DET/ SPECIFICATION. THE NOTES SHOWN ON THESE DF CATEGORIES OF WORK ARE INTENDED TO SUMMA AND ARE ON THE DRAWINGS FOR CONVENIENCE	AILED TECHNICAL RAWINGS UNDER CERTAIN RIZE BASIC REQUIREMENTS	
THE CONTRACTOR'S CONSTRUCTION SEQUENCES	SHALL ALLOW FOR THE	
TO THE BUILDING BEING ENCLOSED AND TEMPERA NEGATIVE EFFECTS OF SUCH THERMAL MOVEMEN	ATURE CONTROLLED. ITS, SUCH AS MATERIAI	
CRACKING, FROST HEAVE, ETC. SHALL BE CORRECT NO ADDITIONAL COST TO THE OWNER.	CTED BY THE CONTRACTOR AT	

GENERAL NOTES

FOUNDATION NOTES

- THE FOUNDATIONS HAVE BEEN DESIGNED TO REST ON INORGANIC JNDISTURBED SOIL HAVING AN ALLOWABLE BEARING VALUE OF 2,000 PSF. SUCH BEARING STRATA IS ANTICIPATED AT THE BOTTOM OF FOOTING ELEVATIONS NOTED ON THE FOUNDATION PLAN. ALL BEARING STRATA SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO THE PLACING OF CONCRETE IN ORDER TO VERIFY THE BEARING VALUE. THE BEARING VALUE SHOULD BE VERIFIED TO A DEPTH OF 3 TO 4 FEET BELOW BEARING ELEVATION TO ENSURE THE BEARING MATERIALS COMPLY WITH THE BORING LOGS AND ESIGN CRITERIA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING POURS TO MINIMIZE SHRINKAGE CRACKING. IN GENERAL, WALLS SHALL NOT BE POURED IN CONTINUOUS LENGTHS EXCEEDING 40 FEET. THE LOCATION AND CONFIGURATION OF JOINTS EXPOSED TO VIEW SHALL BE COORDINATED WITH HE ARCHITECT.
- EXCAVATIONS FOR SPREAD AND CONTINUOUS FOOTINGS SHALL BE CLEANED AND HAND TAMPED TO A UNIFORM SURFACE. CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF EXCAVATION OF THE FOOTING BEARING SURFACE. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL REQUIRED INSPECTIONS, DBSERVATIONS AND TESTING COMPLETED WITHIN THAT TIMEFRAME.
- STEP FOOTINGS WHERE ELEVATIONS CHANGE AT A MAXIMUM SLOPE OF ONE VERTICAL ON TWO HORIZONTAL, CONTRACTOR SHALL PLACE LOWER FOOTING
- ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM REEZING AND THAWING DURING THE COURSE OF CONSTRUCTION. THE BOTTOM OF EXTERIOR FOOTINGS NOT ON SOLID ROCK SHALL BE AT MINIMUM 3'-0" BELOW GRADE.
- THE INSPECTION AND TESTING OF ALL SUBGRADE AND COMPACTED EARTHWORK SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE OWNERS EOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND STRUCTURAL ENGINEER TWENTY-FOUR HOURS PRIOR TO PLACEMENT OF CONCRETE IN THE FOOTINGS. IF UNSUITABLE SUBGRADE SOILS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS PREPARED BY A LICENSED GEOTECHNICAL CONSULTANT TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
- THE SLAB-ON-GRADE SUB-BASE SHALL BE A CRUSHER RUN STONE FREE FROM SOFT DISINTEGRATED PIECES. MUD. DIRT. OR OTHER INJURIOUS MATERIAL. THE MATERIAL SHALL HAVE NO STONE GREATER THAN 2" IN ANY ONE DIMENSION AND WITH LESS THAN 10% BY WEIGHT PASSING A #100 SIEVE.
- N AREAS REQUIRING FILL OR BACKFILL, INCLUDING THE BACKFILLING OF FOUNDATION EXCAVATIONS. THE FILL MATERIAL SHALL BE A UNIFORMLY SRADED SELECT STRUCTURAL FILL OF 2A MODIFIED RECYCLED CONCRETE OR EQUIVALENT MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER THE FILL SHALL BE PLACED IN LIFTS OF 8" TO 10" BEFORE COMPACTION. EACH LIFT SHALL BE COMPACTED WITH APPROPRIATE EQUIPMENT TO A MINIMUM OF 95% OF ITS MAXIMUM MODIFIED DENSITY AT OR NEAR OPTIMUM MOISTURE. A SOILS FESTING LABORATORY, HIRED AS OUTLINED IN THE PROJECT SPECIFICATIONS, SHALL TEST THE MATERIAL BEFORE AND AFTER COMPACTION FOR CONFORMANCE WITH THIS SPECIFICATION. NO LIFTS SHALL BE PLACED WHEN WEATHER CONDITIONS ARE SUCH THAT THE MOISTURE CONTENT OF THE FILL CANNOT BE PROPERLY CONTROLLED. IN PLACING AND COMPACTING FILL AND BACKFILL MATERIAL, DO NOT DAMAGE NOR DISPLACE CONCRETE WORK ALREADY IN PLACE BY CONTACT FROM COMPACTION MACHINERY BY SUBJECTING IT TO OVERTURNING FROM HEAVY COMPACTION LOADING OR ANY OTHER CAUSE. BRING FILL AGAINST SUCH CONCRETE AT THE SAME RATE AS THE REMAINDER OF FILL, COMPACTING UNIFORMLY ON BOTH SIDES USING HAND, OR MECHANICAL TAMPERS.

<u>CRETE</u>

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 (LATEST EDITION), "SPECIFICATIONS FOR STRUCTURAL CONCRETE IN BUILDINGS" AND ACI 318 (LATEST EDITION), "BUILDING CODE REQUIREMENTS OR STRUCTURAL CONCRETE."
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS. REFER TO SPECIFICATION 33000 FOR DESIGN MIX REQUIREMENTS.
- ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. TOGETHER WITH LABORATORY REPORTS ATTESTING THAT THE MIXES CAN ATTAIN THE MINIMUM DESIGN STRENGTH REQUIRED IN ACCORDANCE WITH CHAPTER 5 OF ACI 301 (LATEST EDITION). IF DURING CONSTRUCTION ANY ONCRETE FAILS TO MEET THE ACCEPTANCE CRITERIA, THE CONTRACTOR HALL TAKE SUCH STEPS AS ARE DEEMED NECESSARY BY THE STRUCTURAL NGINEER TO IMPROVE SUBSEQUENT TEST RESULTS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL ALSO BEAR THE COST OF SPECIAL NVESTIGATION TESTING OR REMEDIAL WORK NECESSARY BECAUSE OF EVIDENCE OF LOW STRENGTH OR NON-CONFORMING CONCRETE OR NORKMANSHIF
- CONTRACTOR SHALL SUBMIT STEEL REINFORCING DRAWINGS THAT DETAIL ABRICATION, BENDING AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL, GRADE, BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS BAR ARRANGEMENTS SPLICES AND LAPS MECHANICAL CONNECTIONS THE SPACING HOOP SPACING AND SUPPORTS FOR CONCRETE REINFORCING A 4"x4" SQUARE AREA NEAR THE TITLE BLOCK SHALL BE RESERVED FOR THE NGINEER'S REVIEW STAMP. THE ENGINEER'S DRAWINGS MAY NOT BE REPRODUCED IN WHOLE OR PART AS A SHOP DRAWING. SHOP DRAWINGS SHALL BE CHECKED PRIOR TO SUBMITTAL. ANY DISREGARD FOR THE AFORESAID REQUIREMENTS SHALL BE CAUSE FOR REJECTION OF THE SUBMITTAL WITHOUT REVIEW.
- NO ADMIXTURES ARE PERMITTED WITHOUT THE ENGINEER'S WRITTEN PERMISSION OTHER THAN ENTRAINED AIR. CONCRETE EXPOSED TO THE NEATHER, SUCH AS THAT USED IN FOUNDATION WALLS, SHALL CONTAIN 4% MIN. AND 6% MAX. ENTRAINED AIR.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60. EPOXY COATED REINFORCING STEEL SHALL CONFORM TO ASTM A 775 GRADE 60
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A 185, GRADE 60. EPOXY COATED WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A 884. GRADE 75.
- VELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WITH A MINIMUM YIELD TRENGTH OF 75KSI AND SHALL BE SUPPLIED IN FLAT SHEETS. LAP TWO MESHES AT SIDES AND ENDS, AND WIRE TIE TOGETHER.
- CONCRETE SLABS SHALL BE PROTECTED FROM LOSS OF SURFACE MOISTURE FOR NOT LESS THAN 7 DAYS BY USING A CURING COMPOUND CONFORMING TO ASTM C-309, BY WET BURLAP, OR A PLASTIC MEMBRANE. NO WELDING OF REINFORCING BARS WILL BE PERMITTED.
- GROUT SHALL BE NONSHRINKABLE GROUT CONFORMING TO ASTM C827, AND SHALL HAVE SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PREGROUTING OF BASE PLATES WILL NOT BE PERMITTED.
- MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL CONFORM TO ACI 301 (LATEST EDITION).
- MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318 (LATEST EDITION) SECTION 7.7 FOR CONDITIONS NOT NOTED)

FOOTINGS 3 INCHES SLABS ON GRADE (MAX) 2 INCHES (TOP) 1 1/2 INCHES (I.F) WALLS

PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 47 BAR DIAMETERS MINIMUM AT SPLICES, UNLESS NOTED OTHERWISE:

REBAR SIZE	LAP / SPLICE LENGTHS
#3	18"
#4	24"
#5	30"
#6	36"
#7	42"
#8	48"

HORIZONTAL FOOTING REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED 44 BAR DIAMETERS, AT CORNERS AND INTERSECTIONS. NO REINFORCING OR REINFORCING SUPPORTS SHALL BE EMBEDDED INTO THE OUNDATION SOIL ALL REINFORCING PROJECTING FROM THE CONCRETE SHALL BE TIED TO THE FOUNDATION OR WALL REINFORCING AND FULLY SUPPORTED FROM MOVEMENT DURING CONCRETE INSTALLATION. NO "WET STICKING" OF REINFORCING IS PERMITTED.

- FNGINFFR

RATIO 1.5:1.

- REFER TO DETAIL.
- - 22. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE INDICATED.

MECHANICAL INJURY.

- NOT BE PERMITTED.
- 28. CONTRACTION JOINTS, IF SAW CUT, SHALL MEET THE FOLLOWING REQUIREMENTS: FINISHING
- COMPLETING JOB.

- FOLLOWING REQUIREMENTS:
- FACH COMPOSITE SAMPLE

17. HORIZONTAL JOINTING WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENTS. VERTICAL JOINTS SHALL OCCUR AT CENTER OF SPANS AT LOCATIONS APPROVED BY THE STRUCTURAL

18. SLABS WITH SHRINKAGE STEEL (WWF) SHALL HAVE CONSTRUCTION JOINTS OR CONTRACTION JOINTS AT EACH COLUMN LINE IN EACH DIRECTION. ADDITIONAL CRACK CONTRACTION JOINTS SHALL BE PROVIDED SUCH THAT THE MAXIMUM SPACING BETWEEN CONSTRUCTION AND CRACK CONTROL JOINTS DOES NOT EXCEED 15' AND DOES NOT EXCEED A LENGTH TO WIDTH

- 19. REPAIR CONCRETE EXHIBITING VOIDS DUE TO SNAP TIES, "HONEYCOMBS," ROCK POCKETS, AND RUNS, SPALLS OR OTHERWISE DAMAGED SURFACES WITH DRY PACK OR CEMENT GROUT. AND FINISH FLUSH WITH ADJOINING SURFACES. AT THE DISCRETION OF THE STRUCTURAL ENGINEER OR AS QUALIFIED BY LAB TESTING, EXCESSIVE HONEYCOMBS OR EXPOSED REINFORCEMENT THAT JEOPARDIZE THE DESIGN SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 20. PROVIDE TWO (2) #4 X 4'0" AT ALL RE-ENTRANT CORNERS. PLACED ON THE DIAGONAL WITH 1 1/2" CLEARANCE FROM THE CORNER AND TOP OF SLAB.

21. CONSTRUCTION JOINTS BETWEEN FOOTINGS AND PILASTERS AND SIMILAR JOINTS SHALL BE PREPARED BY ROUGHENING THE CONTACT SURFACE IN AN APPROVED MANNER TO FULL AMPLITUDE OF APPROX. 14 INCHES, LEAVING THE CONTACT SURFACE FREE AND CLEAR OF LAITANCE. REINFORCED (DOWELED) JOINTS SHALL HAVE BINDER ADDITIVE APPLIED PRIOR TO POUR.

23. CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT FINISHED

SURFACES FROM STAINS OR ABRASIONS. NO FIRE SHALL BE ALLOWED IN DIRECT CONTACT WITH CONCRETE. PROVIDE ADEQUATE PROTECTION AGAINST INJURIOUS ACTION BY SUN OR WIND. FRESH CONCRETE SHALL BE THOROUGHLY PROTECTED FROM HEAVY RAIN, FLOWING WATER, AND

- 24. TOPS OF FOUNDATIONS SHALL BE TROWEL FINISHED AND SMOOTH. REFER TO DRAWINGS FOR BASE PLATE ACCOMMODATIONS.
- 25. SLUMP TESTS SHALL BE MADE PRIOR TO THE ADDITION OF PLASTICIZERS. CONCRETE FOR THE PREPARATION OF TEST CYLINDERS SHALL BE TAKEN FROM THE HOSE END FOR CONCRETE PLACED BY PUMP.
- 26. WATER SHALL NOT BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE CONCRETE SUPPLIER AND PUMPER TO ENSURE PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR PROPER USE OF RETARDANTS AND OTHER ADDITIVES. USE OF CALCIUM E CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL
- 27. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE SLABS SURFACE WATER. FINISHING OF SLAB SURFACES SHALL COMPLY WITH ACI RECOMMENDATIONS 302 AND 304 (LATEST EDITION) FOR GARAGES.
- JOINT DEPTH: 1/4 OF SLAB THICKNESS
- SOFF-CUT SAW: JOINTS TO BE CUT WITHIN 2 HOURS OF FINISHING WET-CUT SAW: JOINTS TO BE CUT BETWEEN 4 AND 12 HOURS AFTER
- 29. SLABS ON GRADE SHALL BE REINFORCED WITH WELDED WIRE FABRIC AND FIBER REINFORCEMENT AS INDICATED ON THE CONTRACT DOCUMENTS.
- 30. PROVIDE POUR STOP MATERIAL WHERE NOT INDICATED ON PLAN AS REQUIRED 31. HOT WEATHER CONCRETING: WHEN CONCRETING IS TO BE DONE IN HOT
- WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 305R (LATEST EDITION) SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED IN CONSTRUCTION SPECIFICATIONS
- 32. COLD WEATHER CONCRETING: WHEN CONCRETING IS TO BE DONE IN COLD WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 306R (LATEST EDITION) SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED IN CONSTRUCTION SPECIFICATIONS
- 33. TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C172 SHALL BE PERFORMED ACCORDING TO THE
- a. OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAYS POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YDS BUT LESS THAN 25 CU YDS.. PLUS ONE SET FOR EACH ADDITIONAL 50 CU YD OR FRACTION THEREOF.
- b. CONCRETE SLUMP, AIR CONTENT AND TEMPERATURE SHALL BE TAKEN AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE. PERFORM ADDITIONAL TEST WHEN CONSISTENCY APPEARS TO CHANGE. c. COMPRESSION TEST SPECIMENS SHALL BE PER ASTM C31 REQUIREMENTS. CAST AND CURE ONE SET OF FIVE STANDARD CYLINDER SPECIMENS FOR
- d. COMPRESSION STRENGTH TEST SHALL BE PER ASTM C39. TEST TWO LABORATORY-CURED SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. MAINTAIN AND CURE ONE FIELD CURED SPECIMEN FOR 56 DAYS OR LONGER AT THE REQUEST OF THE ENGINEER.
- 35. REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION SHALL BE AS OUTLINED IN TABLE 1704.4 OF THE PA UCC AND IBC 2018.

CONCRETE MASONRY

- 1. ALL CONCRETE MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5 (LATEST EDITION), "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- 2. CONCRETE BLOCK SHALL BE NORMAL WEIGHT LOAD BEARING MASONRY UNITS CONFORMING TO ASTM C-90 GRADE N-1 WITH A MINIMUM (fm = 2 500psi) COMPRESSIVE STRENGTH OF 3,250 PSI ON THE NET AREA OF THE UNITS.
- 3. PROVIDE CONCRETE UNIT MASONRY THAT DEVELOPS A PRISMATIC STRENGTH EQUAL TO Fm' = 2,500 PSI OR BETTER. THE MINIMUM AVERAGE NET AREA COMPRESSIVE STRENGTH SHALL EQUAL 3,250 PSI.
- 4. MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C-270.
- 5. CEMENT USED IN THE MORTAR AND GROUT SHALL CONFORM TO ASTM C-150. 6. GROUT SHALL CONFORM TO ASTM C476 WITH A MIN. COMPRESSIVE STRENGTH OF 2.000 PSI.
- 7. GROUT SHALL CONFORM TO THE PROPORTIONAL REQUIREMENTS OF ASTM C476. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID SPACE BEING FILLED. GROUT SHALL HAVE A MINIMUM SLUMP OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. ADMIXTURES ARE NOT PERMITTED IN GROUT
- 8. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60. JOINT (HORIZONTAL) REINFORCEMENT SHALL BE DUR-O-WALL TRUSS TYPE, OR AN APPROVED EQUAL
- 9. MASONRY SHALL NOT BE CONSTRUCTED IN TEMPERATURES BELOW 40 DEG.F. PROVIDE A HEAT SOURCE AND PROTECTION AS REQUIRED TO MAINTAIN TEMPERATURE ABOVE 40 DEG.F. COORDINATE ADDITIONAL REQUIREMENTS WITH ACI 530, LATEST EDITION.
- 10. ALL CELLS WITH REINFORCING BARS OR BOLTS SHALL BE GROUTED SOLID. ALL CELLS IN PARAPET MASONRY SHALL BE GROUTED SOLID.
- 11 REINFORCED VOIDS AND NON-REINFORCED VOIDS SPECIFIED TO BE GROUTED IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT MAXIMUM LIFTS. STOP POURS 1 1/2" BELOW THE BED JOINT TO FORM A KEY AT POUR
- 12. REINFORCING BARS SHALL BE TIED TO DOWELS AND HELD IN THE PROPER POSITION BY MECHANICAL BAR POSITIONERS DESIGNED FOR THAT PURPOSE 13. REINFORCING BARS SHALL NOT BE PLUNGED INTO WET GROUT.
- 14. REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 40 BAR DIAMETERS MINIMUM AT SPLICES, UNLESS NOTED OTHERWISE: REBAR SIZE LAP / SPLICE LENGTHS

#3	16"
#4	20"
#5	26"
#6	30"
#7	36"
#8	40"

- 15. VERTICAL CELLS TO BE GROUTED SOLID SHOULD HAVE A MINIMUM CLEAR OPENING AS IDENTIFIED IN ACI 530, LATEST EDITION, FOR FINE OR COARSE GROUT. COORDINATE GROUT USED WITH OPENING SIZE AND THE REQUIREMENTS OF ASTM C476, AS NOTED ABOVE.
- 16. ALL MASONRY BEARING BENEATH STEEL BEAMS SHALL HAVE (2) #5 VERT. REINFORCING BARS (ONE PER CELL) AND ALL COURSES OF CMU FILLED WITH GROUT, UNLESS DETAILED OR NOTED OTHERWISE.
- 17. CONSOLIDATE GROUT POURS EXCEEDING 12 INCHES IN HEIGHT BY MECHANICAL VIBRATION AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
- 18. CERTIFICATES OF COMPLIANCE ARE REQUIRED TO BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR BLOCK GRADE, STRENGTH, GROUT, MORTAR, AND REINFORCING BARS PRIOR TO DELIVERY OF THE BLOCK.
- 19. ALL WALLS SHALL HAVE A BOND BEAM AT THE ROOF. WHICH TIES INTO THE VERTICAL REINFORCEMENT. BOND BEAMS SHALL BE PROVIDED AT THE TOPS OF ALL CMU WALLS AND AT HORIZONTAL INTERVALS NOT TO EXCEED EIGHTEEN (18) TIMES THE WALL (CMU) THICKNESS. UNLESS INDICATED ON DRAWINGS, REINFORCE ALL BOND BEAMS WITH A MINIMUM (2) CONTINUOUS #5 BARS WITH MINIMUM 3,000 PSI SMALL AGGREGATE CONCRETE (NOTE: MORTAR MIX DOES NOT CONSTITUTE GROUT). PROVIDE WALL ANCHORS TO ALL BUILDING COLUMNS AT MAXIMUM 48" VERTICAL AND AT ALL BOND BEAMS.
- 20. PROVIDE HORIZONTAL JOINT REINFORCING IN ALL MASONRY WALLS AT 16"oc VERTICALLY. JOINT REINFORCING SHALL BE 9 GAGE GALVANIZED TRUSS-TYPE WIRE, U.N.O. SEE PLANS AND DETAILS FOR VERTICAL REINFORCING REQUIREMENTS
- 21. PROVIDE #5 BAR VERTICALLY AROUND ALL MASONRY OPENINGS LARGER THAN 12 INCHES OR AS INDICATED ON DRAWINGS. FILL CELLS SOLID WITH GROUT.
- 22. PROVIDE (2) #5 BARS VERTICALLY AT ALL EXTERIOR CORNERS AND AT THE TERMINAL ENDS OF WALLS OR AS INDICATED ON DRAWINGS. FILL CELLS SOLID WITH GROUT
- 23. PLACE REINFORCEMENT IN REQUIRED POSITION SECURING FROM DISPLACEMENT WITH WIRE TIES. LAP CONTINUOUS BARS 36 DIAMETERS.
- 24. PERPENDICULAR INTERSECTING WALLS SHALL BE TOOTHED TOGETHER OR HAVE THE HORIZONTAL TRUSS-TYPE WIRE REINFORCEMENT CONTINUOUS THROUGH THE INTERSECTION. NOTE: CORRUGATED SHEET METAL TAB ANCHORS ARE NOT ACCEPTABLE CONNECTORS AT INTERSECTING WALLS PER ACI-530 - EMPIRICAL DESIGN ANCHORAGE REQUIREMENTS.
- 25. LOAD BEARING CMU SHALL HAVE FULL MORTAR BED JOINTS.
- 26. PROVIDE LADDER-TYPE, HORIZONTAL JOINT REINFORCEMENT AS FOLLOWS: TYPICAL · 16 IN C/C MAX
 - AT BELOW GRADE WALLS: AT PARAPETS: AT WALL OPENINGS:

PROVIDE AT 8 IN C/C PROVIDE AT 8 IN C/C PROVIDE ADDITIONAL REINF NOT MORE THAN 8 IN ABOVE AND BELOW OPENING TERMINATE 2 FT BEYOND

27. INSPECTION OF MASONRY CONSTRUCTION SHALL BE AS OUTLINED IN TABLE 1704.5.1 OF THE PA UCC AND IBC 2018, AS LEVEL 2 SPECIAL INSPECTION.

OPENING

STEEL DECK NOTES

- 1. STEEL DECK SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE CURRENT SPECIFICATION OF THE STEEL DECK INSTITUTE.
- 2. SHOP DRAWINGS SHALL INDICATE THE FINISH, TYPE, GAGE, DIMENSIONS, AND LAYOUT OF ALL DECK AND ACCESSORIES. DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- 3. STEEL ROOF DECK TO BE ONE OF THE FOLLOWING TWO TYPES OF DECK: a. ROOF DECK OVER GYM, MULTI-PURPOSE ROOM, AND MAKER SPACE VERSA-DEK 2.0 S ES ACOUSTICAL DECK, AS MANUFACTURED BY NEW MILLENNIUM, OR AN APPROVED EQUAL. THIS DECK SHALL BE 2"
 - DEEP, 20 GAGE, GALVANIZED DECK WITH MANUFACTURER'S STANDARD ACOUSTICAL HOLES. b. ROOF DECK ABOVE MECHANICAL MEZZANINE: 1 1/2" DEEP, 20 GAGE, GALVANIZED, TYPE 'B' WIDE RIB ROOF DECK, AS MANUFACTURED BY CANAM, INC., OR AN APPROVED EQUAL. b.1) ROOF DECK AT MEZZANINE AND LOW ROOF TO BE
- INSTALLED INVERTED 4. THE STEEL ROOF DECK SHALL BE SUPPLIED IN MINIMUM LENGTHS AS REQUIRED TO PROVIDE A "3 SPAN" CONDITION. END CLOSURES, ROOF SUMPS, CLOSURES
- AT PENETRATIONS, AND ALL OTHER ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION ARE REQUIRED.
- 5. STEEL ROOF DECK SHALL BE WELDED TO THE SUPPORTING STEEL (FRAME FASTENING) WITH 5/8" DIAMETER PUDDLE OR ELONGATED WELDS IN PATTERNS IDENTIFIED IN THE PROJECT SPECIFICATIONS. INTERMEDIATE SIDE CONNECTIONS (STITCH FASTENING) SHALL BE MADE WITH #10 SELE-TAPPING SCREWS, 1 1/2" SEAM WELDS, OR 5/8" PUDDLE WELDS SPACED AT 18"o.c. MAX.
- 6. REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION SHALL BE AS OUTLINED IN TABLE 1704.3 OF THE PA UCC AND IBC 2018.
- 7. MECHANICAL FASTENING METHODS ARE PERMITTED IN LIEU OF WELDING. CONTRACTOR SHALL PROVIDE SUBMITTAL TO INDICATE SPECIFIC FASTENING SYSTEM AND DATA TO INDICATE THAT MECHANICAL FASTENERS MEET OR EXCEED THE DIAPHRAGM CAPACITY ACHIEVED BY THE WELDING PATTERN DESCRIBED ABOVE, OR OTHER SPECIFIC REQUIREMENTS INDICATED.

STRUCTURAL STEEL

- 1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION, AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. MATERIALS:
- STRUCTURAL STEEL STRUCTURAL STL TUBING, SQ & ROUND CHANNELS, PLATES AND ANGLES ASTM A-36
- BOLTS e ANCHOR RODS WELDING ELECTRODE
- PROVIDE BITUMINOUS COATING AND/OR ISOLATION SLEEVE AND WASHERS /
- 4. ALL WELDING SHALL CONFORM TO THE CODE FOR THE ARC AND GAS
- WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY, AND BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH THE A.W.S. STANDARDS
- 5. BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE AISC STANDARD DESIGNED FOR 125% OF THE FULL SHEAR CAPACITY OF THE BEAM
- 6. CONNECTIONS NOT SHOWN ARE TO BE DETAILED BY THE FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION REFERRED TO IN NOTE 1 ABOVE. DETAILS OF ALL CONNECTIONS MUST BE SHOWN ON THE SHOP DRAWINGS. MINIMUM CONNECTION ANGLE THICKNESS TO BE 5/16". CONNECTION DESIGNS ARE TO BE PREPARED BY A STRUCTURAL ENGINEER LICENSED TO PERFORM ENGINEERING IN THE COMMONWEALTH OF PENNSYLVANIA.
- 7. SINGLE TAB PLATE CONNECTIONS ARE NOT PERMITTED, U.N.O.
- ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY ARE TO HAVE MASONRY WALL ANCHORS OF THE TYPE AND SIZE INDICATED IN THE SPECIFICATIONS AT 2'-0" ON CENTER, UNLESS NOTED OTHERWISE.
- 9. PROVIDE 9/16" DIAMETER HOLES FOR WOOD NAILERS AS REQUIRED BY ARCHITECTURAL DRAWINGS.
- 10. STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-3-82 FOR POWER TOOL CLEANING AND PAINTED TO A MINIMUM DRY FILM THICKNESS OF 2 MILS WITH A SHOP COAT OF TNEMEC #10-99 ALKYD RUST INHIBITIVE PRIMER AS MANUFACTURED BY TNEMEC COMPANY, INC., OF KANSAS CITY, MO. OR AN APPROVED EQUAL.
- 11. ALL STRUCTURAL STEEL SUBJECTED TO EXTERIOR WEATHERING SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
- 12. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE FABRICATION OF THE STRUCTURAL STEEL COMPONENTS. SHOP DRAWINGS SHALL BE CHECKED PRIOR TO SUBMITTAL DRAWINGS SHALL INCLUDE DETAILS OF CUTS, CONNECTIONS, SPLICES, CAMBERS, HOLES. INDICATE ALL WELDS BY STANDARD AWS SYMBOLS. SHOW SIZE, LENGTH AND TYPE OF EACH WELD INDICATE ALL BOLTS BY SIZE, LENGTH AND TYPE. CERTIFICATES OF COMPLIANCE ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR STRUCTURAL STEEL, BOLTS, NUTS, WASHERS, AND WELD FILLER MATERIAL PRIOR TO THE FABRICATION OF ANY STEEL
- 13. HIGH STRENGTH BOLTS IN CONNECTIONS USED FOR KICKERS AND BRACING MEMBERS THAT ARE FABRICATED WITH SLOTTED HOLES SHALL BE SLIP-CRITICAL. IF STANDARD HOLES ARE USED, BOLTS SHALL BE FULLY PRE-TENSIONED.
- 14. WEB STIFFENERS SHALL BE PROVIDED IN WF SHAPES AS FOLLOWS: COLUMN WEBS: AT FULLY DEVELOPED MOMENT CONNECTIONS STIFFENERS SHALL BE FILLET WELDED U.N.O. SAME THICKNESS AND GRADE AS BEAM FLANGES. WHERE MOMENT CONNECTIONS OCCUR ON COLUMN FLANGES AND COLUMN WEBS, STIFFENER THICKNESS SHALL EQUAL THE VECTOR SUMMATION OF THE RESPECTIVE BEAM FLANGE THICKNESSES BEAM WEBS: WHERE BEAM BEARS ON COLUMN, SAME THICKNESS AND TRENGTH AS COLUMN FLANGES.
 - BEAM WEBS: WHERE COLUMN BEARS ON BEAM, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.
- 15. CERTIFICATES OF COMPLIANCE ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR STRUCTURAL STEEL BOLTS NUTS WASHERS AND WELD FILLER MATERIAL PRIOR TO THE FABRICATION OF ANY STEEL.
- 16. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
- 17. BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE CONTRACT DOCUMENTS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.
- 18 HEADED CONCRETE ANCHORS SHALL BE NELSON OR KSM HEADED CONCRETE ANCHORS (OR APPROVED EQUAL), AND SHALL CONFORM TO ASTM A108. ANCHORS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY OR THE KSM WELDING SYSTEMS COMPANY
- 19. CONFORMANCE WITH THE RECOMMENDATIONS OF THE LENTON COMPANY. 20. PROVIDE POUR STOP MATERIAL WHERE NOT INDICATED ON PLANS AS
- 21. PROVIDE LOOSE OR HANGING LINTELS NOT SHOWN ON DRAWINGS AS REQUIRED TO COMPLETE JOB. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. CONTACT STRUCTURAL ENGINEER AS PER ANY DESIGN INFORMATION REQUIRED.

REQUIRED FOR COMPLETING JOB.

22. REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION SHALL BE AS OUTLINED IN TABLE 1704.3 OF THE PA UCC AND IBC 2018.

ASTM A 992 ASTM A 500 GRADE B ASTM A 325 ASTM F1554-36 ASTM E 70XX LOW HYDROGEN

INSERTS BETWEEN ALL CONNECTIONS CONTAINING DISSIMILAR METALS.

STEEL BAR JOIST NOTES:

- 1. OPEN WEB STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE CURRENT SPECIFICATION OF THE STEEL JOIST INSTITUTE
- JOISTS SHALL BE SUPPLIED WITH ALL ATTACHED DEVICES, BRIDGING, AND SIMILAR ACCESSORIES REQUIRED FOR STRICT CONFORMANCE WITH THE STEEL JOIST INSTITUTE'S SPECIFICATIONS. ALL OF THE ABOVE INFORMATION MUST BE SHOWN ON THE SHOP DRAWINGS.
- 3. JOISTS SHALL BE FIELD WELDED TO THEIR SUPPORTING MEMBERS BY A CERTIFIED WELDER AS DEFINED BY THE AMERICAN WELDING SOCIETY.
- 4. JOISTS AT ALL COLUMN LINES SHALL HAVE THEIR LOWER CHORDS EXTENDED AND SECURED TO THE COLUMN AFTER THE ALL OF THE BUILDINGS DEAD LOADS HAVE BEEN APPLIED, AND AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- 5. WHEN CONSTRUCTING STEEL JOISTS ON MASONRY WALLS, SETTING PLATES SHOULD ALWAYS BE PROPERLY ANCHORED TO THE WALL. THE SETTING PLATE SHOULD BE INSTALLED NOT MORE THAN 1/2" FROM THE FACE OF THE WALL.
- 6. STAGGER JOISTS WHEN LESS THAN THE MINIMUM BEARING IS POSSIBLE ON A COMMON BEARING SURFACE.
- 7. JOISTS SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-2-63 AND PAINTED TO A MINIMUM DRY FILM THICKNESS OF 1 MIL WITH A RE OXIDE PAINT IN ACCORDANCE WITH SSPC PAINT SPECIFICATION NO. 15, TYPE 1
- REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION SHALL BE AS OUTLINED IN TABLE 1704.3 OF THE PA UCC AND IBC 2018.
- 9. JOISTS AND BRIDGING MUST BE DESIGNED TO RESIST A NET UPLIFT LOADING OF 15 PSF. NO STRESS INCREASES ARE PERMITTED FOR LOAD COMBINATION EFFECTS.

NOT FOR CONSTRUCTION

Sheet No.

GENERAL NOTES

HVAC SYMBOLS - DUCTWORK

HVAC EQUIPMENT

#

CFM

Н

′ KH

/mau`

/rtu/

AHU -CDP -DC -DOAS -EWH -EF -HP

AIR HANDLING UNIT (INCLUDING HEATING & VENTILATING UNITS)

CONDENSATE DRAIN PUMP (AIR CONDITIONING)

DUCT COIL (ELECTRIC HEAT)

DEDICATED OUTDOOR AIR SYSTEM

ELECTRIC HEATER (INCLUDES WALL HEATERS AND TOE-SPACE HEATERS)

EXHAUST FAN

HEAT PUMP (AIRSIDE, WATERSOURCE, AND MINI SPLIT GRILLE, REGISTER, OR DIFFUSER

HUMIDIFIER

KITCHEN HOOD

LOUVER

MAKE-UP AIR UNIT

ROOFTOP UNIT (AIR CONDITIONING AND HEAT PUMPS)

C	AIR CONDITIONING	LAT	LEAVING AIR TEMPERATURE
D	ACCESS DOOR	LAT CAP	LATENT CAPACITY
FF	ABOVE FINISHED FLOOR	LBS	POUNDS
FR	ABOVE FINISHED ROOF	LRA	LOCKED ROTOR AMPS
MB	AMBIENT	LWT	LEAVING WATER TEMPERATURE
P	ACCESS PANEL	MBH	1.000 BTU
PD	AIR PRESSURE DROP	MC	MECHANICAL CONTRACTOR
TC	AUTOMATIC TEMPERATURE CONTROL	MCA	MINIMUM CIRCUIT AMPACITY
WT	AVERAGE WATER	M.O.D.	MOTOR OPERATED DAMPER
	TEMPERATURE	MOP	
HP	BREAK HORSE POWER		PROTECTION
HP	BOILER HORSE POWER	MFR	MANUFACTURER
MS		MHP	MAXIMUM HORSE POWER
OD		RNC	ROOM NOISE CRITERIA
OP	BOTTOM OF PIPE	NC	NORMALLY CLOSED
OS	BOTTOM OF STRUCTURE	NO	NORMALLY OPEN
WE		OA	OUTSIDE AIR
A		OC	ON CENTER
M		OD	OUTSIDE DIAMETER
ОВ	FLAT ON BOTTOM	OED	OPEN ENDED DUCT
от	FLAT ON TOP	PC	PLUMBING CONTRACTOR
V		PD	PRESSURE DROP
OP	COEFFICIENT OF PERFORMANCE	PIR	PASSIVE INFRARED
W	COLD WATER	PRV	PRESSURE RELIEF VALVE
В	DRY BULB	PSIG	POUNDS PER SQUARE INCH GAUGE
A	EXHAUST AIR	RA	RETURN AIR
AT	ENTERING AIR TEMPERATURE	RH	RELATIVE HUMIDITY
С	ELECTRICAL CONTRACTOR	RLA	RUN LOAD AMPS
ER	ENERGY EFFICIENCY RATIO	RPM	REVOLUTIONS PER MINUTE
F	EXHAUST FAN	SA	SUPPLY AIR
FF	EFFICIENCY	SS	STAINLESS STEEL
SP	EXTERNAL STATIC PRESSURE	SST	SATURATED SUCTION TEMPERATURE
WT	ENTERING WATER TEMPERATURE	SEER	SEASONAL ENERGY EFFICIENCY RATIO
Х	EXISTING	SEN CAP	SENSIBLE CAPACITY
ХТ	EXTERIOR	SP	STATIC PRESSURE
LA	FULL LOAD AMPS	Т	THERMOMETER
L DR	FLOOR DRAIN	ТА	TRANSFER AIR
Т	FEET	TEMP	TEMPERATURE
T HD	FEET OF HEAD	TOG	TOP OF GRILLE
A	GAUGE	TOL	TOP OF LOUVER
С	HVAC CONTRACTOR	TOT. CAP	TOTAL CAPACITY
Р	HORSE POWER	TSP	TOTAL STATIC PRESSURE
TG	HEATING	TSTAT	THERMOSTAT
W	HOT WATER	TW	TEPID WATER
WR	HOT WATER RETURN	UC	UNDERCUT DOOR
)	INSIDE DIAMETER OR IDENTIFIER	UNO	UNLESS NOTED OTHERWISE
1	INCHES	V	
ISUL	INSULATION		
I-WC	INCHES OF WATER COLUMN	V I T. W/	
R	INFRARED	۷۷ ۱۸/Þ	
SP	INTERNAL STATIC PRESSURE		
V	INDIRECT WASTE	WT	
W	KILOWATT	VVI	WEIGHT

HVAC SYMBOLS - CONTROLS

		Ţ	
T	THERMOSTAT OR TEMPERATURE SENSOR		TEMPERATURE SENSOR WITH THERMAL WELL
(H)	HUMIDISTAT OR HUMIDITY SENSOR	P	
R	REFRIGERANT LEAK SENSOR	DP	SENSOR
C	CARBON MONOXIDE SENSOR		DIFFERENTIAL PRESSURE SENSOR
G	NATURAL GAS OR LP LEAK SENSOR		FLOW SWITCH
0	CARBON DIOXIDE SENSOR		CONTROL PANEL

HVAC ABBREVIATIONS

COMMON SYMBOLS

	$\langle 1 \rangle$	KEYNOTE
	${\color{black}\textcircled{\bullet}}$	CONNECT TO EXISTING
	\blacklozenge	EXISTING TO BE REMOVED
DF SECTION		EQUIPMENT TAG SHOWING TYPE AND ID. SEE EQUIPMENT SCHEDULES FOR DETAILS
		EXISTING TO REMAIN
		REMOVE EXISTING
		PROVIDE NEW

HVAC GENERAL NOTES

- . THE HVAC DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK AND ASSOCIATED SYSTEMS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE THE INSTALLATION OF HVAC SYSTEMS WITH ACTUAL CONDITIONS IN THE FIFI D A. PIPE AND DUCT ELEVATIONS ARE FOR REFERENCE ONLY. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS B. DUCT SIZES ARE MINIMUM CLEAR INSIDE DIMENSIONS. C. COORDINATE INSTALLATION OF MECHANICAL WORK WITH ALL OTHER TRADES D. MAINTAIN MANUFACTURERS RECOMMENDED SERVICE CLEARANCES . THE CONTRACTOR SHALL COORDINATE THE SHUTDOWN AND REMOVAL OF EXISTING SYSTEMS AND EQUIPMENT AND THE INSTALLATION OF NEW SYSTEMS AND EQUIPMENT WITH THE PROJECT CONSTRUCTION PHASING SCHEDULE. 3. PRIOR TO ORDERING MECHANICAL EQUIPMENT, VERIFY CLEARANCE FOR RIGGING EQUIPMENT THROUGH EXISTING DOORS, HATCHES, WINDOWS, AND SIMILAR EXISTING SPACE CONSTRAINT CONDITIONS. DISASSEMBLE AND RE-ASSEMBLE EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS WHERE EQUIPMENT DOES NOT CLEAR EXISTING OPENINGS. 4. DO NOT RIG OR HOIST EQUIPMENT OR MATERIALS ABOVE OCCUPIED AREAS OF THE BUILDING. 5. PROVIDE ALL METHODS AND MATERIALS FOR SUPPORTING EQUIPMENT, PIPING, AND DUCTWORK. IN AREAS OF BAR JOIST CONSTRUCTION, SUPPORT LOADS FROM TOP CHORD OF BAR JOISTS AT PANEL POINTS.
- 6. UNLESS OTHERWISE INDICATED, THIS CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING OF THE EXISTING FACILITY FOR HIS RESPECTIVE WORK. PATCHING SHALL MATCH EXISTING MATERIALS, FINISHES, AND METHODS OF CONSTRUCTION.
- A. PROVIDE LINTELS WHERE PENETRATING EXISTING MASONRY CONSTRUCTION; SUBMIT SHOP DRAWINGS ON LINTELS, INDICATING SIZE AND TYPE, FOR PENETRATIONS OF LOAD BEARING MASONRY WALLS.
- B. CUTTING AND PATCHING OF THE ROOF SHALL BE PERFORMED BY AN AUTHORIZED SUB-CONTRACTOR CERTIFIED BY THE ORIGINAL ROOFING MANUFACTURER; ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH EXISTING WARRANTY REQUIREMENTS.
- C. PROVIDE STEEL FRAMING ANGLES WHERE PENETRATING FLOOR AND ROOF DECKS; ANGLES SHALL BE MINIMUM 4" x 4" x 1/4" UNLESS NOTED OTHERWISE.
- D. MODIFY EXISTING ROOF, FLOOR, AND WALL OPENINGS TO ACCOMMODATE THE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS; PROVIDE ANGLE FRAMING FOR ROOF AND FLOOR PENETRATIONS, SLEEVES AND LINTELS FOR WALL PENETRATIONS. PATCH EXITING ROOF, FLOOR, AND WALL OPENINGS TO MATCH EXISTING MATERIALS AND METHODS WHERE PENETRATIONS ARE NOT UTILIZED FOR NEW EQUIPMENT AND SYSTEMS.
- E. WHERE CUTTING AND PATCHING IS INDICATED TO BE PERFORMED BY THE GENERAL CONTRACTOR, COORDINATE THE SIZE AND LOCATION OF OPENINGS.
- F. REMOVE AND REINSTALL EXISTING ACOUSTICAL CEILING TILES AND CEILING GRID TO FACILITATE THE INSTALLATION OF DUCTWORK, PIPING, EQUIPMENT, AND CONTROLS.
- G. UNLESS OTHERWISE INDICATED, CUT AND PATCH EXISTING PLASTER CEILINGS TO FACILITATE THE INSTALLATION OF DUCTWORK, PIPING, EQUIPMENT, AND CONTROLS.
- 7. IMMEDIATELY NOTIFY THE ARCHITECT, ENGINEER, AND OWNER IF ENVIRONMENTAL HAZARDS SUCH AS ASBESTOS IS ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DISTURBING EXISTING HAZARDOUS MATERIALS. THE MECHANICAL CONTRACTOR SHALL NOT PERFORM ABATEMENT WORK AS PART OF THIS CONTRACT.
- 8. ALL MATERIAL EXPOSED WITHIN THE CEILING RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE-DEVELOPED RATING OF 50. ALL DUCT TYPE, MASTICS, AND VIBRATION ISOLATION CONNECTIONS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE SPREAD RATING OF 50 OR LESS. DUCT COVERING AND LININGS SHALL NOT FLAME, GLOW, SMOLDER, OR SMOKE WHEN TESTED IN ACCORDANCE WITH ASTM C411 AND UL 181. FLEXIBLE DUCTWORK SHALL COMPLY WITH UL 181.
- 9. PROVIDE UL LISTED FIRE PROOFING SEALANTS AROUND ALL DUCT, PIPING, AND CONDUIT PENETRATIONS OF RATED FIRE RESISTANT WALLS AND FLOORS. PROVIDE UL LISTED DRAFT STOPPING SEALANTS AROUND ALL DUCT, PIPING, AND CONDUIT PENETRATIONS OF NON-RATED FLOORS.
- 10. PROVIDE ACOUSTICAL SEALS AROUND DUCTWORK AND PIPING PENETRATIONS OF ACOUSTICALLY RATED PARTITIONS.
- 11. PRIME AND PAINT ALL FERROUS MATERIALS EXPOSED TO THE OUTDOORS. PRIME AND PAINT ADDITIONAL MATERIALS AS NOTED ON THE DRAWINGS. PRIMER AND PAINT SHALL BE SUITABLE FOR ITS INTENDED APPLICATION.
- 12. COORDINATE MOUNTING HEIGHTS OF LOUVERS, BRICK VENTS, SIDEWALL GRILLES, AND WALL MOUNTED EQUIPMENT WITH THE ARCHITECTURAL EXTERIOR AND INTERIOR ELEVATIONS.
- 13. PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS IN HYDRONIC PIPING SYSTEMS; PROVIDE DRAIN VALVES AT ALL LOW POINTS.
- 14. VERIFY REFRIGERANT PIPE SIZES WITH AIR-CONDITIONING EQUIPMENT MANUFACTURER.
- 15. MOUNT THERMOSTATS AND SIMILAR CONTROL DEVICES 48" AFF.
- 16. UNLESS OTHERWISE NOTED, SMOKE DETECTORS SHALL BE FURNISHED, WIRED, AND INSTALLED BY THE H.C. IN THE RETURN AIR DUCTS UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, AND OUTDOOR AIR CONNECTIONS FOR ALL UNITS WITH A DESIGN CAPACITY OF 2000 CFM OR GREATER. SMOKE DETECTORS SHALL BE LABELED FOR INSTALLATION IN AIR DISTRIBUTION SYSTEM AND INSTALLED IN ACCORDANCE WITH NFPA 72.
- 17. OUTSIDE AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM LOT LINES, OTHER BUILDING, FUEL-FIRED APPLIANCE VENTS, PLUMBING VENTS, EXHAUST FAN DISCHARGE, OR FROM ANY OTHER SOURCE OF HAZARDOUS OR NOXIOUS CONTAINMENT.
- 18. PERFORM START-UP EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' WRITTEN START-UP INSTRUCTIONS OR IN CONJUNCTION WITH FACTORY AUTHORIZED TECHNICIANS. ADJUST AUTOMATIC TEMPERATURE CONTROLS TO ACHIEVE SATISFACTORY TEMPERATURE AND/OR HUMIDITY CONTROL AS APPLICABLE.
- 19. PROVIDE WRITTEN NOTICE AT LEAST 3 DAYS PRIOR TO PERFORMING PIPING LEAK TESTS AND 7 DAYS PRIOR TO EQUIPMENT START-UP AND OPERATIONAL TESTS.
- 20. UNLESS OTHERWISE INDICATED, ALL DUCTWORK SHALL BE OF SHEET METAL CONSTRUCTION WITH SEALED JOINTS. ROUND FLEXIBLE DUCTWORK SHALL BE LIMITED TO 6'-0" PER BRANCH DUCT
- 21. DO NOT UTILIZE AIR HANDLING EQUIPMENT AND DUCTED SYSTEMS FOR TEMPORARY HEAT; OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO PLACING EQUIPMENT INTO SUSTAINED OPERATION. CHANGE ALL AIR FILTERS 30 DAYS AFTER PROJECT COMPLETION.
- 22. PROVIDE ACCESS DOORS IN WALLS AND CEILINGS FOR ALL SERVICEABLE DEVICES INCLUDING FIRE DAMPERS, SHUT-OFF VALVES, CONTROL VALVES, CONTROL DAMPERS, AND VOLUME DAMPERS. PROVIDE UL-LISTED ACCESS DOORS IN FIRE RESISTANCE RATED CONSTRUCTION.
- 23. PROVIDE IDENTIFICATION OF MECHANICAL SYSTEMS AND EQUIPMENT INCLUDING DUCTWORK AND PIPING.
- A. PROVIDE LOCATION / IDENTIFICATION MARKERS ON CEILING GRID OR ACCESS PANELS FOR SHUT-OFF VALVES, CONTROL VALVES, FIRE DAMPERS, SMOKE DETECTORS, AND OTHER SERVICEABLE DEVICES.

COMMON ABBREVIATIONS

Δ/E		HC
		нср
		нст
		HR
		IR
		IR
		VES JD
	ALITOMATIC TRANSFER SWITCH	
BEC	BELOW FINISHED CEILING	MC
C/G		MCA
CD		MOCP
CL		Meer
		MT
CM		MO
COL		NA
CT	COUNTERTOP HEIGHT-44" AFE UNO	NE
01	OR CURRENT TRANSFORMER	NIC
CR	CORD REEL	NTS
DBF	DOWN BELOW FLOOR	OFCI
DET	DETAIL	01 01
DIA	DIAMETER	PC
DIM	DIMENSION	PIR
DL	DOOR LOUVER	REC
DN	DOWN	SE
DW	DISHWASHER	SECT
DWG	DRAWING	SHT
EC	ELECTRICAL CONTRACTOR	SIM
EL	ELEVATION	SPD
ELEV	ELEVATOR	SPEC
EMER	EMERGENCY	SS
EO	EMERGENCY ONLY (NORMALLY OFF)	STD
EWC	ELECTRIC WATER COOLER (PROVIDE GFI RECEPTACLE)	SUSP
EX	EXISTING	
FA	FIRE ALARM	
FBO	FURNISHED BY OWNER	ις τετατ
FLR	FLOOR	
FPC	FIRE PROTECTION CONTRACTOR	
FSC	FOOD SERVICE CONTRACTOR	03 W/
GC	GENERAL CONTRACTOR	
GFI	GROUND-FAULT INTERRUPTER	W/
GND	GROUND	

COMMON SYMBOLS

N	PLAN NORTH
A H1.17	-SECTION ID -SHEET NO. WHERE SECTION IS -DIRECTIONAL VIEW OF SECTION
\bigcirc	REVISION CLOUD
Δ	REVISION NUMBER
	ELEVATION 100.00'
11 H1.1	-DIRECTION OF VIEW
	-SHEET NO. WHERE EL. IS DRAWN -ELEVATION ID
$\langle 1 \rangle$	KEYNOTE
1 H1.1	-DETAIL ID -SHEET NO. WHERE DETAIL IS
101	ROOM/SPACE NO.
	EQUIPMENT TAG SHOWING TYPE AND ID. SEE EQUIPMENT SCHEDULES FOR DETAILS
	PROVIDE NEW
	EXISTING TO REMAIN
[]]	REMOVE EXISTING
Θ	CONNECT TO EXISTING
\blacklozenge	EXISTING TO BE REMOVED

HVAC CONTRACTOR HANDICAPPED HEIGHT HOUR INFRARED JUNCTION BOX KITCHEN EQUIPMENT SUPPLIER LOW-VOLTAGE MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY MAXIMUM OVERCURRENT PROTECTION MULTITECHNOLOGY MICROWAVE OVEN NOT APPLICABLE NORMAL/EMERGENCY (NORMALLY ON) NOT IN CONTRACT NOT TO SCALE OWNER FURNISHED-CONTRACTOR INSTALLED PLUMBING CONTRACTOR PASSIVE INFRARED RECESSED SERVICE ENTRANCE SECTION SHEET SIMILAR SURGE PROTECTION DEVICE SPECIFICATION SERVICE SINK STANDARD SUSPENDED TO BE REMOVED TASK LIGHT TAMPER RESISTANT THERMOSTAT UNLESS NOTED OTHERWISE ULTRASONIC WITH WITHOUT WALL-MOUNTED WEATHERPROOF

DRAWING LIST

P0.1 COVER SHEET P1.1 SITE PLAN P2.1 FLOOR PLAN--DRAINAGE P2.2 ROOF & MEZZANINE PLANS P3.1 FLOOR PLAN--SUPPLY P7.1 DETAILS P8.1 SCHEDULES H0.1 COVER SHEET H2.1 FLOOR PLAN H2.2 ROOF PLAN H7.1 DETAILS H8.1 DETAILS & SCHEDULES E0.1 COVER SHEET E0.2 ELECTRICAL NOTES E0.3 SITE PLAN - DEMOLITION E0.4 SITE PLAN - NEW E2.1 FLOOR PLAN - LIGHTING E3.1 FLOOR PLAN - POWER E4.1 FLOOR PLAN - LOW-VOLTAGE E5.1 MEZZANINE PLANS E7.1 DETAILS E7.2 DETAILS E7.3 DETAILS E8.1 SCHEDULES

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В

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2

										F	ROO	FTO	P DI	EDI	CA'	TED	OU [.]	TDC	DOR		R C	ΟΝΙ	DIT	ION	IN	GU	ΝΙΤ	SC	HE	DUI	LE (HE	ΑΤ	REC	OV	ERY)				DOAS #
TAG	MANUFACTURER	MODEL	CFM	SUPPLY ESP IN WG	í fan HP	RPM	CFM	EXHAUS ESP IN WG	ST FAN	RPM	O/A CFM	TOT CAP MBH	SENS. CAP MBH	COOLING EAT/DB °F	G LAT/WB °F	REFRIG- ERANT	НОТ МВН	GAS REH EAT/DB °F	EAT LAT/DB °F	REV C MBH (34°F)	YCLE HEA EAT/DB °F	∖TING LAT/DB °F	ELECT ELECT KW	. HEAT STAGES	COMPR NO.	RESSOR	FA NO.	NS FLA	OA	ENEI	RGY WHE EFF (COOL)	EL EFF (HEAT)	WHEEL (HP)	V/P/Hz	ELEC FLA	TRICAL MCA	MCOP	ENER SYSTEM EER	RGY COP	OPER. WT. LBS	REMARKS
DOAS-1	TRANE	OABE072C3	1480	1.0	1.0	2006	1230	1.0	1.0	1882	1480	66.6	42.7	81	54/53	R-410A	38.4	54	78	64.8	50	88	24	NOTE 5	1	20.4	1	4.2	1480	1230	82%	82%	0.17	208/3/60	96.5	118.3	125	19	4.1	2037	1,2,3,4,5,6

NOTES:	1.	PROVIDE MODULATING HOT GAS REHEAT COIL AND CONSTANT VOLUME OPERATION.
	2.	PROVIDE DISCONNECT SWITCH.
	3.	PROVIDE SERVICE RECEPTACLE. SERVICE RECEPTACLE SHALL BE POWERED WHEN DISCONNECT SWITCH IS OFF.
	4.	PROVIDE INSULATED VIBRATION ISOLATION ROOF CURB.
	5.	PROVIDE SCR CONTROL FOR ELECTRIC HEAT.
	6.	PROVIDE MANUFACTURER CONTROLS AND BACNET INTERFACE CARD. REFER TO 230993 FOR SEQUENCES.

CONDENSATE TRAP DETAIL

											SP	LIT	SY	STE	МН		' PU	JMP	SCH	IEDULE										AHU # HP #
	INDOOR UNIT											OUTDOOR UNIT																		
-10				0/1	505							DX	COOLING	G COIL		HEAT	ſING					COMPRESSOR		NS				SYS	TEM	NOTES
IAG	MANUFACTURER	MODEL	CFM	O/A CFM	ESP in H2O	SPEED	(kW)	MCA	МОСР	V/P/Hz	TOT CAP MBH	SENS. CAP MBH	EAT/DB °F	EAT/WB °F	REFRIG- ERANT	SENS. CAF MBH	P EAT/DB °F	LBS	IAG	MODEL	NO.	RLA	NO.	FLA	V/P/Hz	MCA	МОСР	SEER	COP (47 °F)	
AHU-1	MITSUBISHI / TRANE	TPVFYP048	1400	195	0.8	HIGH	1/2	5.6	15	208/1/60	42.0	31.7	75	63	R-410A	38.8	70	172	HP-1	NTXMSH42A	1	19.0	2	.36/.36	208/1/60	36	40	18.5	3.7	1,2,3,5,6,7
AHU-2A	MITSUBISHI / TRANE	TPVFYP036	910	480	0.8	HIGH	1/3	4.1	15	208/1/60	34.0	25.4	80	67	R-410A	39.9	70	126	HP-2	TUHYH0723AN40AN	1	10.5	2	1.3/1.3	208/3/60	38	60	12.5	4.2	1,2,3,5,6,7
AHU-2B	MITSUBISHI / TRANE	TPVFYP036	910	480	0.8	HIGH	1/3	4.1	15	208/1/60	34.0	25.4	80	67	R-410A	39.9	70	126												
AHU-3	MITSUBISHI / TRANE	NTXAMT24A	730	90	0.8	HIGH	1/4	NOTE 4	NOTE 4	208/1/60	23.2	19.1	75	63	R-410A	23.4	70	93	HP-3	NTXSKH24A	1	9.0	1	.36	208/1/60	17	27	16	3.7	1,2,3,4,5,6,7
AHU-4	MITSUBISHI / TRANE	TPVFYP048	1400	235	0.8	HIGH	1/2	5.6	15	208/1/60	42.0	31.7	75	63	R-410A	38.8	70	172	HP-4	NTXMSM42A	1	19.0	2	.36/.36	208/1/60	36	45	18.5	3.7	1,2,3,5,6,7
NOTES	1. PROVIDE LOW AMBIENT COOLING, ANTI CYCLE TIMER, LOW VOLTAGE WALL MOUNT THERMOSTAT. 2. HEATING PERFORMANCE GIVEN AT 0° F OAT. HSPF RATED AT 47° F OAT. 3. SIZE AND INSTALL REFRIGERANT PIPING PER EQUIPMENT MANUFACTURER'S REQUIREMENTS. 4. INDOOR UNIT IS ROWERED FROM OUTDOOR UNIT. FC TO PROVIDE ROWER WIRING RETWEEN INDOOR AND OUTDOOR UNITS.																													

- INDOOR UNIT IS POWERED FROM OUTDO PROVIDE MANUFACTURER'S CONTROLS 5
- 6. OUTDOOR UNIT DISCONNECT PROVIDED PROVIDE MANUFACTURER'S VERTICAL

TAG	MANUFACTURER	MODEL						
H-1	H-1 DRI-STEEM XT							
NOTES:	1. PROVIDE ULTRA 2. PROVIDE RETU	A-SORB DIS RN AIR HUM						
TAG	AREA SERVED	MANUFAG						
EF-1	KITCHEN	LOREN						

NOTES:

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NOT TO SCALE

ROOFTOP DEDICATED OUTDOOR AIR CONDITIONING UNIT SCHEDULE (HEAT RECOVERY)

0.0		1/3	4.1 15	200/1/00	34.0	20.4	00		∖- 410A	39.9	70	120		1	r			,		· · ·	,	i	
0.8	HIGH	1/4 N	NOTE 4 NOTE	4 208/1/60	23.2	19.1	75	63 F	R-410A	23.4	70	93	HP-3	NTXSKH	124A	1	9.0	1.36	208/1/60	17	27	16 3.7	1,2,3,4,5,6,7
0.8	HIGH	1/2	5.6 15	208/1/60	42.0	31.7	75	63 F	R-410A	38.8	70	172	HP-4	NTXMSM	142A	1	19.0 2	.36/.3	6 208/1/60	36	45	18.5 3.7	1,2,3,5,6,7
TIMER, LOW SPF RATED QUIPMENT M IIT. EC TO PI ACNET INTEF AHU FLOOR	VOLTAGE V AT 47° F OA IANUFACTU ROVIDE PON RFACE CARI STAND FOR	VALL MOUN' T. IRER'S REQU WER WIRING D. REFER TO R INDOOR UI	T THERMOSTA UIREMENTS. G BETWEEN IN O 230993 FOR S NIT(S)	T. DOOR AND OL SEQUENCES.	HED	тs. нс то р	ROVIDE CC	ONTROL WI	RING BE	TWEEN IND	OOR AND (OUTDOOR	UNITS.	H #			ELE	ΞΟΤΙ	RIC H	IEAT	'ER S	CHE	
				ENT	AIR	_															—		
TYPE	LBS/HR	AIRFLOW CFM	DUCT SIZE	DB	% RH	KW	FLA	V/P	P/HZ C	DPERATING WEIGHT		NO	DTES		TAG	MANU	UFACTURER	MODEL	CAPACITY KW	STAGES	V/P/Hz	MOUNTING	NOTES
ECTRODE	18.0	1820	24 X 20	56.3	25.9	6.0	20	208/	/3/60	46		1	1,2		EWH-1		BERKO	FRC4024	= 3	1	208/1/60	REC	1,2,3
on Manifole T. Mount In). N RETURN A	IR DUCTWC	DRK.												EWH-2	2	BERKO	FRC4024	3	1	208/1/60	REC	1,2,3
														J	EWH-3	3	BERKO	FRC4024	- 3	1	208/1/60	REC	1,2,3
															EWH-4	L	BERKO	FRC4024	- 3	1	208/1/60	SURFACE	1,2,3,4
R MODEL	_ CFI	ME		AN SONE		DUL MOTOR	V/P/Hz	ROOF OPENING	CONT		MPER V	WEIGHT	NOTES	EF #		2. P 3. P 4. P	PROVIDE 14 G PROVIDE CON PROVIDE SUR	AUGE SECU ITACT FOR I FACE MOUN	IRITY FRONT (REMOTE BMS IT KIT.	COVER. COLO	JR SELECTED Γ.	BY ARCHITECT	
		IN	WG		(WATTS	S)		INxIN				LBS			GF	RILL	.E - R	EGIS	STER	- DIF	FUSE	R SCH	
ARCUBXP	-165 92	5 1	1.5 BEI	LT 12.5	3/4	1604	200/3/60	18x18	NOT	E 2	-	100	1										
SLOPED CUR NTRACTOR.	B, HINGED MOTOR STA	VENTED CU ARTER BY E	IRB, UL762 COI C.	NSTRUCTION,	GREASE COI	LLECTION TI	Rough.								TAG	MANU	UFACTURER	MODEL	SIZE	PATTERN	FINISH	MAX NC	NOTES
						/ =					- \		,		1		TITUS	TDCA-AA	6"Ø, 6X6	4-WAY	BWE	25	
			D	UCT	COIL	- (EL	.EC	FRIC	C H	EAT	-)		\langle		2		TITUS	TDCA-AA	8"Ø, 9X9	4-WAY	BWE	25	-
					от I			ELECT	RIC HEA	TING COIL				_	3		TITUS	TDCA-AA	10"Ø, 12X12	3-WAY	BWE	25	-
TAG	MANUF	ACTURER	MODE				EAT	LAT	KW	STEPS	S V/P/H	Hz A (IN	WG) NC	DTES	4		TITUS	272FL	12X6	DBL DFL	ALUM.	25	1
DC-1	BR	ASCH	HUA	12)	(12	825	10	71	16	SCR	208/3	3/60 0.	05	1,2	5		TITUS	272FL	14X6	DBL DFL	ALUM.	25	1
NOTES			1	I	I	I	I		<u> </u>	I	I	I	<u> </u>		6		TITUS	272FL	18X6	DBL DFL	ALUM.	25	1
	1. F 2. F	PROVIDE DIS PROVIDE DIS	SCONNECT SW SCHARGE AIR	/ITCH TEMPERATUR	ECONTROL	(DUCT SENS	OR) FOR S	CR HEAT.							7		TITUS	US-DL-S\	′ 18X6	ADJ.	ALUM.	25	1
															8		TITUS	350FL	12X12	RETURN	ALUM.	25	-
															9		TITUS	350FL	14X10	RETURN	ALUM.	25	-
(MAK	E-UP	AIR	HAN	IDLI	NG	UNI	TS	SCH	EDU	ILE	<u> </u>		10								NOT USED
	-						FAN	4						/	11		TITUS	350FL	16X16	RETURN	STEEL	25	-
TAG			MODEL	S/A CF				RDM				WEIGHT	NOTE	S	12		TITUS	350FL	24X24	RETURN	STEEL	25	-
									v/1 ⁻ /f			LBS			13		TITUS	33RS	24X32	RETURN	ALUM.	25	2
MAU-1	TRA	NE	CSAA003	825	825	1.0	1	2600	208/3/	/60 5.25	15	554	1,2,3,4	4	14		TITUS	33FL	36X24	EXHAUST	ALUM.	25	2
NOTES:															15		TITUS	350FL	6X6	EXHAUST	ALUM.	25	-
1.	PROVIDE S		NT POWER CO	NNECTION AN	D FACTORY I	FUSED DISC	ONNECT S	WITCH							16		TITUS	33RL	30X16	EXHAUST	ALUM.	25	2

E IPVFTPU30A	910	480 0.4	.0		1/3 4.	1 15	200	8/1/60 3	54.0	25.4	80	07	R-410A	39.9	70	120		1										
E NTXAMT24A	730	90 0.	.8	HIGH 1	1/4 NOT	E 4 NOTE	E 4 208	18/1/60 2	23.2	19.1	75	63	R-410A	23.4	70	93	HP-3	NTXSKI	124A	1 9.0	1	.36	208/1/60	17	27	16	3.7	1,2,3,4,5,6,7
E TPVFYP048	1400	235 0.	.8	HIGH	1/2 5.0	6 15	208	8/1/60 4	42.0	31.7	75	63	R-410A	38.8	70	172	HP-4	NTXMSI	//42A	1 19.0	2	.36/.36	208/1/60	36	45	18.5	3.7	1,2,3,5,6,7
OW AMBIENT COO ERFORMANCE GI NSTALL REFRIGEI NIT IS POWERED F IANUFACTURER'S UNIT DISCONNEC IANUFACTURER'S	DLING, ANTI C VEN AT 0° F C RANT PIPING ROM OUTDO CONTROLS CONTROLS VERTICAL M	YCLE TIMER, LO DAT. HSPF RATI PER EQUIPMEN OR UNIT. EC TO AND BACNET IN BY EC. OUNT AHU FLO	OW VO ED AT NT MAN O PRO NTERFA	ULTAGE WAL 47° F OAT. JUFACTUREF VIDE POWEF ACE CARD. R AND FOR INE	L MOUNT TI R'S REQUIR WIRING BI EFER TO 23	HERMOST EMENTS. ETWEEN II 30993 FOR (S)	AT. NDOOR A SEQUEN			HC TO PF	ROVIDE CC	NTROL W	/IRING BE	ETWEEN IND	OOR AND) OUTDOOR UI	NITS.	Н				•TD				204		EWH
				Πυ			:K 3	<u>эсп</u>	EDU								<	#				, I K	Сп		EK 3	ы		
MANUFACTURER	MODEL	TYPE	L	BS/HR A	IRFLOW CFM	DUCT SIZE	DE	B %	6 RH	KW	FLA	V/	/P/HZ	OPERATING WEIGHT		NOTE	S		TAG	MANUFACTUR	RER	IODEL	CAPACITY KW	STAGES	V/P/Hz	MOUNT	ГING	NOTES
DRI-STEEM	XTP-006	ELECTRODE	Ξ	18.0	1820	24 X 20	56.	.3 2	25.9	6.0	20	208	8/3/60	46		1,2			EWH-1	BERKO	FF	RC4024F	3	1	208/1/60	REC		1,2,3
1. PROVIDE ULTR 2. PROVIDE RETU	RA-SORB DISF JRN AIR HUM	PERSION MANIF	OLD. NT IN R	ETURN AIR D	DUCTWORK														EWH-2	BERKO	FF	RC4024F	3	1	208/1/60	REC	;	1,2,3
																			EWH-3	BERKO	FF	RC4024F	3	1	208/1/60	REC	;	1,2,3
																			EWH-4	BERKO	FF	RC4024F	3	1	208/1/60	SURFA	٩CE	1,2,3,4
			יטרבי		F05	F		SCH				ROOF				WEIGHT		EF #		 PROVIDE PROVIDE PROVIDE PROVIDE 	14 GAUG CONTAC SURFACE	E SECURI T FOR REN E MOUNT I	TY FRONT C MOTE BMS T KIT.	OVER. COLO	DR SELECTE Г.	ED BY ARCH	IITECT.	
AREA SERVED	MANUFAC	IURER MO	DEL	CFM			RIVE	SONES	(WATTS)	RPM	V/P/Hz	INXIN	GONT	ROL DAM		LBS	NOTES	5 	GR	ILLE -	RF	CIC.	TER		FIISF	ER S	CHE	
KITCHEN	LORENC	OOK ARCUE	BXP-16	5 925	1.5	BE	ELT	12.5	3/4 1	1604 2	200/3/60	18x18	NOT	TE 2	-	100	1			. 2 Res Res Res -						-N U		
PROVIDE DISC CONTROL BY	CONNECT SW	ITCH, SLOPED (CE CONTRACTC	CURB, DR. MC	HINGED VEN DTOR START	ITED CURB ER BY EC.	, UL762 CC	ONSTRUC	CTION, GREA	ASE COLLEC	CTION TR	OUGH.								TAG	MANUFACTUR	RER	MODEL	SIZE	PATTERN	FINISH	MAX N	.C	NOTES
		\subset																	1	TITUS	Т	DCA-AA	6"Ø, 6X6	4-WAY	BWE	25		-
						D	UC	T C	DIL	(EL	EC	FRI	СН		-)		\langle	DC #	2	TITUS	т	DCA-AA	8"Ø, 9X9	4-WAY	BWE	25		-
								DUCT				ELEC		ATING COIL					3	TITUS	т	DCA-AA 1	10"Ø, 12X12	3-WAY	BWE	25		-
		ТА	AG	MANUFACT	TURER	MOD	EL	SIZE	(CFM))	EAT	LAT	KW	STEPS	S V/P	/Hz APL (IN W)	, G) NC	DTES	4	TITUS	:	272FL	12X6	DBL DFL	ALUM.	25		1
		DC-	-1	BRASC	ж	HUA	4	12x12	825		10	71	16	SCR	208	3/3/60 0.05		1,2	5	TITUS		272FL	14X6	DBL DFL	ALUM.	25		1
		<u>NO1</u>	TES:		I					I	I			I	I	I	I		6	TITUS		272FL	18X6	DBL DFL	ALUM.	25		1
			1 2	. PRO . PRO	VIDE DISCO VIDE DISCH	ONNECT SV IARGE AIR	WITCH R TEMPEF	RATURE COM	NTROL (DUC	CT SENS	OR) FOR S	CR HEAT.							7	TITUS	08	S-DL-SV	18X6	ADJ.	ALUM.	25		1
																			8	TITUS	;	350FL	12X12	RETURN	ALUM.	25		-
												9	TITUS	;	350FL	14X10	RETURN	ALUM.	25	_	-							
		1	MAKE-UP AIR HANDLING UNIT SCHEDULE							#	10								'	NOT USED								
											FAN			ELECTRICA				/	11	TITUS		350FL	16X16	RETURN	STEEL	25		-
		TAG	6 M	MANUFACTU	RER	MODEL	:	S/A CFM	O/A CFM	ESP	Р НР	RPM	V/P/I	Hz MCA	МОСР	WEIGHT	NOTE	S	12			350FL	24X24		SIEEL	25	_	-
		MAU-	-1	TRANE		CSAA003		825	825	1.0	1	2600	208/3	60 5.25	15	554	1,2,3,	4	13			33EI	247.32	EYUALIST		25		2
															1				14			350FI	626	FXHAUST		20	_	-
		NOTE	<u>=5:</u> 1. Pf	ROVIDE SING	GLE POINT I	POWER CO	ONNECTI	ION AND FAC	CTORY FUSI	ED DISCO	ONNECT S	WITCH							16	TITUS	`	33RI	30X16	FXHALIST		25		2
		_																			1		00/110			1 <u>2</u> 0	1	<u>_</u>

		DUC	ТС	DIL (E	LEC	TRI	C HE	EAT)			DC #
TAC		MODEL	DUCT	AIRFLOW		ELECT	TRIC HEATIN			APD	NOTES
IAG	MANUFACTURER	MODEL	SIZE	(CFM)	EAT	LAT	KW	STEPS	V/P/Hz	(IN WG)	NOTES
DC-1	BRASCH	HUA	12x12	825	10	71	16	SCR	208/3/60	0.05	1,2
<u>NOTES:</u>	NOTES: 1. PROVIDE DISCONNECT SWITCH 2. PROVIDE DISCHARGE AIR TEMPERATURE CONTROL (DUCT SENSOR) FOR SCR HEAT.										

	MA	KE-UP	AIR H	IAND	DLIN	G	JNI	T SC	H	EDI	JLE	MAU #
						FAN	-	ELE	CTRICA	L		
TAG	MANUFACTURER	MODEL	S/A CFM	O/A CFM	ESP	HP	RPM	V/P/Hz	МСА	МОСР	WEIGHT LBS	NOTES
MAU-1	TRANE	CSAA003	825	825	1.0	1	2600	208/3/60	5.25	15	554	1,2,3,4
<u>NOTES:</u> 1. 2. 3. 4.	NOTES: 1. PROVIDE SINGLE POINT POWER CONNECTION AND FACTORY FUSED DISCONNECT SWITCH 2. PROVIDE VFD 3. PROVIDE FLAT FILTER, ACCESS, PLENUM FAN, DOWN DISCHARGE. 4. INTERLOCK OPERATION WITH EF-1. REFER TO 230993 FOR SEQUENCES.											

NOTES: 1. PROVIDE OPPOSED BLADE VOLUME DAMPER 2. HEAVY DUTY CONSTRUCTION

17

TITUS

272FL

18x12

DBL DFL

ALUM.

NOT FOR CONSTRUCTION

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VCENT G. PAN/ (GROUND **BUILD PHILADELPHIA** 19132 HIA Ð REBUILD -PL **PPR/REF** 3101-27 N 23 0 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING 02/05/2024 ate cale: AS NOTED ob No. 725002 rawn: DMC Appd.: KSB Sheet Title: DETAILS & SCHEDULES Sheet No. H8.1

D'HUY

Engineering,

Inc. CONSULTING ENGINEERS: Project Management Facilities Engineering Structural Design & Analysis Mechanical/Electrical/Plumbing Forensic Engineering

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EQUIPMENT TYPES

ATS	AUTOMATIC TRANSFER SWITCH
СВ	PHOTOVOLTAIC DC COMBINER BOX
CONT	CONTACTOR
CP	CONSOLIDATION POINT
DS	DISCONNECT SWITCH
ECB	ENCLOSED CIRCUIT BREAKER
НН	HANDHOLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
LCP	LIGHTING CONTROL PANEL
MCC	MOTOR CONTROL CENTER
MS	MOTOR STARTER
PDU	POWER DISTRIBUTION UNIT
PNL	ELECTRICAL PANEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TRAN	TRANSFORMER
UPS	UNINTERRUPTIBLE POWER SUPPLY

ELECTRICAL SYMBOLS

		LIGHTING	G
	S S ₃ S ₄ S _k S ₀ S ₁ S ₁ S ₁ S ₁ S ₁ S ₁ S ₁ S ₁	SINGLE POLE SWITCH 3-WAY SWITCH 4-WAY SWITCH ROTARY/BARREL TYPE KEY SWITCH LOW-VOLTAGE LIGHTING CONTROL SWITCH, ZONE a SWITCH WITH ELECTRONIC TIMER DIMMER SWITCH 3-WAY SWITCH WITH LOCATOR LED SWITCH WITH MOTION SENSOR DIMMER SWITCH WITH MOTION DETECTOR EMERGENCY BATTERY BACKUP UNIT EMERGENCY HEADS EXIT SIGN, ARROWS AS SHOWN	S _P S _F ⊠ ∐ ⊠ €
SHOWN ON LIGHTING PLANS		LUMINAIRES LUMINAIRE TYPE A IN CONTROL ZONE b WALL-MOUNT LUMINAIRE NORMAL/EMERGENCY LUMINAIRE EMERGENCY-ONLY LUMINAIRE MOTION SENSOR - CEILING-MOUNTED US MOTION SENSOR - CEILING-MOUNTED MT MOTION SENSOR - AISLE TYPE MOTION SENSOR - AISLE TYPE MOTION SENSOR - ADJUSTABLE SWIVEL NECK - CORNER CEILING OR WALL MOUNTED MT CEILING MOUNTED DAYLIGHT SENSOR WALL MOUNTED ROOM CONTROLLER WITH X 0-10V RELAYS, EMERGENCY 924 LISTED	
	Image: set of the set of th	FIRE ALARM SMOKE DETECTOR HEAT DETECTOR COMBINATION SMOKE AND HEAT DETECTOR BEAM SMOKE DETECTOR TRANSMITTER BEAM SMOKE DETECTOR RECEIVER DUCT SMOKE DETECTOR FIREFIGHTER TELEPHONE JACK MANUAL PULL STATION AUDIO/VISUAL ALARM VISUAL ALARM VISUAL ALARM VOICE/VISUAL ALARM VOICE/VISUAL ALARM	

- FS SPEAKER
- FIRE ALARM CONTROL PANEL FACP
- FAA ANNUNCIATOR PANEL

- Μ DOOR HOLDER
- FLOW SWITCH INTERFACE FS
- IM INPUT INTERFACE MODULE
- ПΜ OUTPUT INTERFACE MODULE
- TAMPER SWITCH INTERFACE TS

SECURITY

R	VIDEO SURVEILLANCE CAMERA 1 DATA JACK PLUS 1 SPARE

360° VIDEO SURVEILLANCE CAMERA 180° VIDEO SURVEILLANCE CAMERA -0-90° VIDEO SURVEILLANCE CAMERA 0--

GENERAL ELECTRIC

S _P	SWITCH WITH PILOT LIGHT
S _F	FAN SWITCH
\boxtimes	MOTOR STARTER
	DISCONNECT SWITCH
$\boxtimes^{\!$	COMBINATION STARTER
Φ	DUPLEX RECEPTACLE G GROUND FAULT INTERRUPTER C COUNTERTOP HEIGHT E ELECTRICAL WATER COOLER - GFI CM CEILING MOUNTED W WEATHERPROOF TR TAMPER RESISTANT X-Y NEMA X-Y # MOUNT #' ABOVE FINISH FLOOR S SURFACE MOUNT T TELEVISION U USB
∯ ◎ ◎ 20 ¶ R	DOUBLE-DUPLEX RECEPTACLE SPECIAL RECEPTACLE POWER RECEPTACLE, AMPERAGE RANGE RECEPTACLE
$\mathbf{P} \mathbf{A} \mathbf{A}$	DEVICE IN CONCEALED RECESSED FLOOR BOX
	JUNCTION BOX TRANSFORMER HANDHOLE MANHOLE POWER POLE TIME CLOCK HAND DRYER HAIR DRYER
	TWO-COMPARTMENT SURFACE RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 30' OF RACEWAY.
	PANEL
	BASEBOARD HEATER
	WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING
P1-1	HOME RUN/CIRCUIT TAG
	MULTICONDUCTOR WIRING
	CONDUIT RISE CONDUIT DROP
C	OMMUNICATIONS

- TELEVISION OUTLET, PROVIDE USER INTERFACE BOX ∇_{TV} AND 1.25" CONDUIT TO ACCESSIBLE CEILING
- SINGLE DATA OUTLET, PROVIDE 1-GANG BOX AND 3/4" ∇ CONDUIT TO ACCESSIBLE CEILING
- DATA OUTLET WITH N JACKS, PROVIDE 1-GANG BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING $\nabla_{\!\mathsf{N}}$
- SINGLE TELEPHONE OUTLET, PROVIDE 1-GANG BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING $\mathbf{\nabla}$
- TELEPHONE OUTLET WITH N JACKS, PROVIDE 1-GANG ▼N BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING
- BOX WITH BLANK PLATE AND CONDUIT TO ACCESSIBLE CEILING SPACE FOR FUTURE DEVICE. \mathbf{A}
- WIRELESS COMMUNICATIONS SYSTEM ANTENNA WITH 2 W DATA JACKS IN HOUSING. PROVIDE 1-GANG BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING

COMMON ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	HC
AB CLG	ABOVE CEILING	HCP
ABV	ABOVE	HGT
AFF	ABOVE FINISHED FLOOR	HR
AFI	ARC-FAULT INTERRUPTER	IR
AFR	ABOVE FINISHED ROOF	JB
ALT	ALTERNATE	KES
ATS	AUTOMATIC TRANSFER SWITCH	LV
BFC	BELOW FINISHED CEILING	MC
C/G	COUNTERTOP GFI	MCA
CD	CORD DROP	MOCP
CL	CENTERLINE	. 4 T
CLG	CEILING	MI
CM	CEILING MOUNTED	MO
COL	COLUMN	
СТ	COUNTERTOP HEIGHT-44" AFF UNO OR CURRENT TRANSFORMER	
CR	CORD REEL	
DBF	DOWN BELOW FLOOR	
DET	DETAIL	OFCI
DIA	DIAMETER	PC
DIM	DIMENSION	PIR
DL	DOOR LOUVER	REC
DN	DOWN	SE
DW	DISHWASHER	SECT
DWG	DRAWING	SHT
EC	ELECTRICAL CONTRACTOR	SIM
EL	ELEVATION	SPD
ELEV	ELEVATOR	SPEC
EMER	EMERGENCY	SS
EO	EMERGENCY ONLY (NORMALLY OFF)	STD
EWC	ELECTRIC WATER COOLER (PROVIDE GFI RECEPTACLE)	SUSP
EX	EXISTING	
FA	FIRE ALARM	
FBO	FURNISHED BY OWNER	TSTAT
FLR	FLOOR	
FPC	FIRE PROTECTION CONTRACTOR	
FSC	FOOD SERVICE CONTRACTOR	W/
GC	GENERAL CONTRACTOR	W/O
GFI	GROUND-FAULT INTERRUPTER	W
GND	GROUND	WP

COMMON SYMBOLS

	PLAN NORTH
A H1.1	-SECTION ID -SHEET NO. WHERE SECTION IS -DIRECTIONAL VIEW OF SECTION
\bigcirc	REVISION CLOUD
\bigwedge	REVISION NUMBER
-	<u>ELEVA</u> TION 100.00
11 H1.1	-DIRECTION OF VIEW
	-SHEET NO. WHERE EL. IS DRAWN -ELEVATION ID
$\langle 1 \rangle$	KEYNOTE
1 H1.1	-DETAIL ID -SHEET NO. WHERE DETAIL IS
101	ROOM/SPACE NO.
	EQUIPMENT TAG SHOWING TYPE AND ID. SEE EQUIPMENT SCHEDULES FOR DETAILS
	PROVIDE NEW
	EXISTING TO REMAIN
[_]	REMOVE EXISTING
${\color{black} \bullet}$	CONNECT TO EXISTING
\blacklozenge	EXISTING TO BE REMOVED

DRAWING LIST

P0.1	COVER SHEET
P1.1	SITE PLAN
P2.1	FLOOR PLANDRAINAGE
P2.2	ROOF & MEZZANINE PLANS
P3.1	FLOOR PLANSUPPLY
P7.1	DETAILS
P8.1	SCHEDULES
H0.1	COVER SHEET
H2.1	FLOOR PLAN
H2.2	ROOF PLAN
H7.1	DETAILS
H8.1	DETAILS & SCHEDULES
E0.1 E0.2 E0.3 E0.4 E2.1 E3.1 E5.1 E7.1 E7.2 E7.3 E8.1	COVER SHEET ELECTRICAL NOTES SITE PLAN - DEMOLITION SITE PLAN - NEW FLOOR PLAN - LIGHTING FLOOR PLAN - POWER FLOOR PLAN - LOW-VOLTAGE MEZZANINE PLANS DETAILS DETAILS DETAILS SCHEDULES

D'HUY Engineering, Inc. CONSULTING ENGINEERS: Project Management Facilities Engineering Structural Design & Analysis Mechanical/Electrical/Plumbing Forensic Engineering DEI One East Broad Street Suite 310 Bethlehem, PA. 18018 610.865.3000 · fax 610.861.0181 www.dhuy.com IL AN, PHILADELPHIA PHILADELPHIA PA 19132 D ND.

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ELECTRICAL NOTES

A. General Requirements

- 1. Work shall be in accordance with NFPA 70 (the National Electrical Code)--either the latest version or the version adopted by the local jurisdiction--and all local codes.
- 2. Secure all permits, inspections, and approvals as required. 3. Furnish and install all materials and labor required to provide complete and
- operational systems as indicated on the drawings. 4. The electrical drawings are diagrammatic and are intended to show the approximate locations of equipment, devices, raceways, and associated systems. Drawings are not to be scaled for the accurate cutting or its exact
- placement, but they shall be followed as closely as actual building construction and the work of other trades will permit. The contractor shall verify all dimensions and coordinate the installation of electrical systems with actual conditions in the field. 5. General work practices for electrical construction shall be in accordance with
- NECA 1, Good Workmanship in Electrical Construction, published by the National Electrical Contractors Association.
- 6. All material and equipment shall be listed and labelled for the application by Underwriters Laboratories or other NRTL, and installed according to its listing.
- 7. Unless otherwise indicated, this contractor shall perform all cutting and patching of the existing facility for their respective work. Patching shall match existing materials, finishes, and methods of construction.
- 8. Submit shop drawings to the Architect/Engineer for all materials and equipment
- 9. Provide protection and storage for equipment and materials during construction.
- 10. All material and equipment shall be turned over in a new, clean condition. 11. Coordinate work with other trades. Where electrical devices are depicted on
- Architectural drawings, install as depicted. 12. Exact locations of outlets, conduits, equipment, devices shall be reviewed, coordinated with and approved by the Owner, after completion of
- coordination with Architect, Engineer and other contractors. 13. Provide circuits and final connection to mechanical equipment, furniture and equipment supplied by others. Where electrical drawings and equipment rough-in drawings or equipment submittals are in conflict, consult with Architect for resolution.
- 14. Coordinate equipment clearances and work space with manufacturer's service recommendations
- 15. The contractor shall coordinate the installation and startup of new systems and equipment with the project construction phasing schedule.
- 16. Maintain as-built plans during construction. Turn over to Architect/Engineer at completion of construction. Provide electronic version and at least two
- paper copies, more if required elsewhere. 17. Provide operating and maintenance manuals for all equipment. Provide electronic version and at least two paper copies, more if required elsewhere.
- 18. Provide at least 12-month warranty on all materials, equipment, and workmanship from date of substantial completion.
- B. Demolition and Connections to Existing Equipment

1. Disconnect and remove electrical service.

- 2. Disconnect and remove branch circuits wiring from existing site luminaires back to source. Extend existing conduits to new lighting control panel. Provide new site lighting circuits as shown on the electrical drawings. Field verify conduit size and conductor size. New conductors and conduits shall match existing to ensure new conductors fit in existing conduits.
- 3. Disconnect and remove camera cables from outdoor cameras back to source. Extend existing conduits to new data cabinet. Provide new category 6a outdoor rated cable from cabinet to existing cameras. New cables and conduits shall match existing to ensure new conductors fit in existing conduits.
- 4. Disconect and remove branch circuits wiring from existing basketball court sports luminaires back to source. Extend existing conduits to new lighting control panel. Provide new site lighting circuits as shown on the electrical drawings. Field verify conduit size and conductor size. New conductors and conduits shall match existing to ensure new conductors fit in existing conduits.
- 5. Disconnect and remove power and low-voltage utilities from the existing building being demolished, coordinate shutdown and removal with each utility provider.

C. Utility Services

- 1. Coordinate installation of permanent electric utility service entrance with utility company. PECO new service work order #: 190-661-39. 2. Coordinate with PECO for temporary service and demolition of existing
- 3. Coordinate installation of permanent telephone utility service entrance with
- utility company 4. Coordinate installation of permanent cable television utility service entrance with utility company
- 5. Direct costs of utility service entrances (those paid directly to the utility
- companies) will be paid for by the Owner, without contractor markup. 6. Provide all excavation, backfilling, conduits, conductors, meter bases, current transformer cabinets, disconnects/breakers, bollards, etc., to meet all utility company requirements for service. Note, initial disconnecting means, CT cabinet and meter shall be outside the building, final location as coordinated with the Owner and Architect.
- 7. Use minimum 4" conduit for utility service entrances.

D. Basic Materials and Methods

- 1. Wire shall be copper THHW, THWN or XHHW. Ampacity shall be based on 75C ratings, factory applied color sheathing as noted below. a. Panelboard, site lighting circuits shall have XHHW conductor
- 2. For 208Y/120V systems, use black (phase A), red (phase B) and blue (phase
- C) color coding. 3. Minimum wire size shall be 12AWG. For emergency and outdoor circuits,
- minimum wire size shall be 10AWG. For branch circuits longer than 60' one-way circuit distance, minimum wire size shall be 10AWG.
- 4. Provide a dedicated 100% rated neutral conductor in each circuit which rely on the neutral conductor to complete the circuit (example: 120V, 277V or multiphase circuits with a neutral).
- 5. Where oversized conductors are indicated or otherwise required for voltage drop or derating, provide junction boxes and other means required to transition back to standard conductor sizes for connection to standard lugs at equipment.
- 6. Minimum conduit size shall be 3/4".
- 7. Where branch circuit wiring is spliced, use wirenuts, PVC coated mechanical lug terminals or other Engineer approved means that allows access to cable ends. Do not use spring tension splices to connect wiring. Splice fittings shall be listed for wet location where located outdoors.
- 8. Use wire in conduit except in accessible indoor ceiling spaces and in hollow gypsum-board partitions, where MC cable may be used, unless prohibited by code. Use MC cable connectors with threaded lock nuts to box and screw down cable grips.
- Additional MC cable limitations:
- a. Use conductors in conduit from panelboard to room with termination. Once in the space with the termination, MC cable may be used where acceptable for use and accessible.
- b. MC cable shall not pass-thru partitions, extend beyond the space where the cable terminates.
- c. MC Cable shall not be located in masonry walls, in or above metal panel ceilings.
- 9. Provide flexible connections for final connection to motors or other vibrating

- eaupment.
- 10. Provide plastic bushings wherever conductors would otherwise be exposed to threaded metal fittings.
- 11. Conduit types:
- ii. Outdoor, buried: Schedule 40 PVC, Solvent fused PVC fitting, 3" concrete encasement, spacer at intervals not more than 4' and not more than 2' from fitting.
- ij. Outdoor, in slab or just below, within 6" of slab: RMC, matching
- ik. Outdoor, exposed: Threaded RMC field painted as directed, matching
- threaded fittings. il. Outdoor, flexible final connections to vibrating equipment: LFMC,
- malleable iron type fittings, listed for outdoors.
- im. Indoor, subject to physical damage or below 9' AFF: Threaded RMC field painted, matching threaded fittings.
- in. Indoor, dry, not subject to physical damage and above 9'AFF: EMT, set screw or compression fittings. Where exposed conduit shall be field painted
- io. Indoor, dry, flexible final connections to vibrating equipment: FMC, malleable iron fittings.
- 12. Where boxes and conduit are indicated to be field painted, provide color selection as directed by Architect.
- 13. Coordinate conduit installation with other trades. Where conduit is in the vicinity of equipment, coordinate conduit locations to ensure access and clearances about equipment are maintained.
- 14. Exposed raceways and boxes in finished spaces shall be custom painted to match adjacent surfaces and surface colors. Where surfaces have more than one color, provide color scheme to match existing.
- 15. Exposed raceway systems, enclosures, trays, boxes and covers in unfinished ceilings shall be custom painted to match existing.
- 16. Except where code requires otherwise, use steel boxes of the proper type, not less than 4" square. Secure firmly, true, square, and, where mounted in a finished wall, flush with the finished surface. Where outdoors, provide cast metal boxes custom painted to match adjacent surface.
- 17. In finished spaces and below 9' AFF exposed boxes shall be cast metal box custom painted to match adjacent surface.
- 18. Low-voltage cable may be installed open in accessible indoor ceiling spaces, attics and in hollow gypsum-board partitions; otherwise, provide raceway. Support low-voltage at maximum 48" intervals with J-hooks or other devices listed for low-voltage cable support.
- 19. Support cables, conduits, and junction boxes rigidly and securely with heavy duty clamps and anchors listed for the application and installed according to their listing.
- 20. The use of spring tension cable or conduit support clips is not acceptable. Connectors to be threaded type with locking washer.
- 21. In finished spaces, all wiring shall be concealed under floors, in walls, or above ceilings, unless drawings indicate otherwise.
- 22. In unfinished spaces, all wiring shall be concealed under floors, in walls. Exposed raceway systems, enclosures, boxes and supports are acceptable where located snug to the upper cord of roof structure or where approved in the field by the Engineer.
- 23. Identify each wire on the project with a circuit number. Use wrap-around tape at the ends of wires.
- 24. Provide approved tags for each feeders, at either end and at intermediate junction boxes and pull boxes. Tag shall indicate feeder designation or equipment serviced, and state phase and voltage. Tags shall be machine printed, not less than #12 font, black text on white or grey background. 25. Where circuits penetrate an interior or exterior masonry wall provide sleeves
- listed for the application. 26. Seal all wall and floor penetrations. For fire-rated walls or floors, provide
- listed penetration sealant or other assembly to maintain rating. 27. Outdoor branch circuits shall have minimum 30" cover and shall be provided
- with a continuous warning tape. 28. Outdoor feeders shall have minimum 36" cover, shall be concrete-encased
- (3"), and shall be provided with a continuous warning tape. 29. Megger each feeder circuit. Conduct test with 1000V DC for 1 minute. Test phase to phase, phase to neutral and phase to ground for each conductor. Provide electronic test report showing each test outcome. Where resistance values are under 25 megohm, correct deficiency and retest. Turnover test report to Engineer.

E. Grounding and Bonding

- 1. Provide grounding and bonding as below, in addition to requirements of
- 2. Provide insulated copper equipment grounding conductors in all circuits. 3. Provide continuous copper perimeter grounding electrode, either ground ring
- electrode or concrete-encased electrode. 4. Provide bond between perimeter grounding electrode and each perimeter
- column and at building columns at intervals not greater than 50'. 5. Where ground bars are indicated, provide Erico or equal copper bar, minimum 1/4" thick x 4" wide x 12" long with manufacturer's mounting kit including insulating bracket.

Surface Raceway

- 1. Use Wiremold ALA4800-series or equal, aluminum, two-channel system. 2. Provide all fittings for a complete installation where shown on the drawings.
- Provide corners, end caps, rises/drops, etc., as required. 3. Provide recessed conduit drops and recessed boxes for feeds in wall behind
- raceway. Provide 0.75" conduit for power channel and 1.25" conduit for low-voltage channel. Provide at least one set of drops for each 20' of raceway.
- 4. Provide brackets for in-line device mounting.
- 5. Coordinate mounting height of raceway with millwork and furniture, and obtain Owner approval for height selected before installation.

G. Wiring Devices

- 1. Standard switches shall be ivory or as directed, extra heavy-duty industrial grade, 277V, 20A, manufactured by Leviton, Arrow Hart or Pass & Seymour Where keyed switches are shown provide barrel key locking type. Where pilot-lighted switches and other types are noted, provide those types of the same quality by the same manufacturer.
- 2. Standard receptacles shall be ivory or as directed, extra heavy-duty industrial grade, tamper resistant, 120V, 20A, grounding type, manufactured by Leviton, Arrow Hart or Pass & Seymour. Where other receptacle types are noted, provide those types of the same quality by the same manufacturer.
- 3. Standard USB receptacle shall comply with the requirements of the standard receptacle and provide a single USB A and USB C charging port capable of 5A at 5VDC.
- 4. Standard GFCI receptacles shall be UL 943, 10kA maximum interrupting capacity, weather resistant complying with requirements above.
- 5. Where receptacles are located in damp or wet locations, provide weather resistant devices.
- 6. Provide cast metal weatherproof (WP) boxes and heavy duty other housings, as noted, tamper-resistant hardware.
- 7. Outdoor receptacles not protected from the weather shall be provided with hinged metal WP "in-use" covers, where WP rating is maintained with equipment plug is inserted into the receptacle, tamper-resistant hardware.
- 8. Indoor receptacles in wet locations and outdoors under roofed openings, canopies, or marquees, not subject to beating rain or water run-off, shall be cast metal WP type when receptacle is covered (attached plug cap not inserted and receptacle cover closed), tamper-resistant hardware.
- 9. Provide brushed stainless steel wall plates for devices in indoor finished spaces, galvanized steel wall plates for devices indoor unfinished spaces and cast iron or aluminum covers outdoors. Use one-piece wall plates for all

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- groups of devices. Plates shall be square and true, with the edges of the plate in continuous contact with the wall, tamper-resistant hardware. 10. Identify each device on the project with a circuit number. Use 2 self-adhesive labels on the front and back of the faceplate of each switch or receptacle
- 11. Each wiring device coverplate shall be provided with tamper-resistant hardware. Supply 6 vandal resistant installation and removal tools to the owner at completion of work.
- 12. The color of wiring devices and type and color of device plates shall be indicated on submittals, and shall be coordinated with the Architect prior to installation.

H. Distribution Equipment

- 1. Distribution equipment shall be manufactured by Cutler-Hammer, GE/ABB, Siemens, or Square D.
- 2. Circuit breaker and other lugs shall be rated 75C.
- 3. Panelboards shall be hinged door-in-door dead-front, having bolt-on molded-case circuit breakers.
- 4. 208V and 240V panelboards shall have enhanced fingersafe IP2X per IEC 60529 barriers for all ungrounded parts.
- 5. Safety switches shall be heavy-duty.
- 6. Enclosures shall be suitable for installed location.
- 7. Provide new typewritten panel directories for all panels where work is done, including existing panels. Incorporate Owner's final room designations for all circuits. Obtain approval before installing.
- 8. Provide handle locks on breakers which serve emergency lighting circuits, exit signs, fire alarm equipment, lighting control panels & lighting control devices and camera equipment.
- 9. Identify panelboards, safety switches, and motor starters with engraved plastic laminate labels, showing panel designation, system voltage, and source location.

I. Lighting Control Devices

- 1. These controls function within a room and are not networked with the rest of the building.
- 2. Wall-box controls:
- a. Wall-box switches with motion detectors shall have the following features: dual-technology sensor (PIR and US) with 225 sq ft coverage rating for minor motion for both technologies, manual override pushbutton, sensitivity adjustment, mounts in standard box with standard Decora-style wall plate, 120/277V, 800W, off-delay adjustable, integrated light level sensor with adjustable threshold, LEDs indicate motion detection, coverplate and device color to match wiring devices or as directed. Provide Watt Stopper DW-100. Configure for 20-minute off-delay, manual on.
- b. Wall-box dimmers with motion detectors shall have the following features: dual-technology sensor (PIR and US) with 225 sq ft coverage rating for minor motion for both technologies, manual override pushbuttons, sensitivity adjustment, mounts in standard box with standard Decora-style wall plate, 120/277V, 1000W, 0-10V dimming, off-delay adjustable, LEDs indicate motion detection, coverplate and device color to match wiring devices or as directed. Provide Watt Stopper DW-311. Configure for 20-minute off-delay, automatic on to
- c. Wall-box switches with timers shall have the following features: backlit LCD display with digital countdown timer, single pushbutton operation, mounts in standard box with standard Decora-style wall plate, 120/277V, 800W, auto off after selectable time up to 12 hours, flash/beep indicator, scrolling override of preset timeout, coverplate and device color to match wiring devices or as directed. Provide Watt Stopper TS-400. Set initial preset to 30 minutes. Set beep and flash indicators on. Where multiple wall-box timers control the same lights, wire in parallel. 3. Motion sensors:
- a. Ceiling or wall corner-mounted occupancy sensors shall have the
- following features: dual-technology sensor (PIR and US) with 1000 sq ft coverage rating for minor motion (for 10' mounting, 2000 sq ft coverage rating for major motion), sensitivity adjustment, swivel bracket, off-delay adjustable up to 30 minutes, integrated light level sensor with adjustable threshold, LED indicates motion detection. Adjust sensitivity for proper operation without false triggering. Adjust light level threshold to 50%. Set initial off-delay to 30 minutes, automatic on (capable of manual on).
- b. Ceiling center-mounted occupancy sensors shall have the following features: semi-recessed, dual-technology sensor (PIR and US) with 360 degree, 1000 sq ft coverage rating, sensitivity adjustment, off-delay adjustable up to 30 minutes, integrated light level sensor with adjustable threshold, LED indicates motion detection. Adjust sensitivity for proper operation without false triggering. Adjust light level threshold to 50%. Set initial off-delay to 30 minutes, automatic on (capable of manual on).
- c. Ceiling center-mounted US occupancy sensors shall have the following features: semi-recessed mounting, 2000 sq ft coverage rating, sensitivity adjustment, off-delay adjustable up to 30 minutes, LED indicates motion detection. Mount ultrasonic sensors at least 4' from air diffusers. Adjust sensitivity for proper operation without false triggering. Set initial off-delay to 30 minutes, automatic on.
- 4. Room controllers:
- a. UNO, where room controllers or daylight sensors are indicated, provide room controller together with low-voltage sensors and low-voltage wall controls
- b. Basis of design is Hubbell NX or Watt Stopper DLM.
- c. Wall switches shall be 2-button on/off or 4-button on/off/raise/lower,
- color to match wiring device or as directed by Architect. d. Provide room controllers to accommodate multiple circuits, voltages or zones as required, including multiple room controllers if needed.
- e. Daylight sensor for daylight harvesting.
- f. Provide dedicated dry low-voltage contact for HVAC integration; provide dedicated external interface unit if required.
- g. Motion sensors: provide ceiling corner dual tech, ceiling center dual tech and ceiling center ultrasonic. Sensors shall meet performance specification above and intended for use with room controller.
- 5. Controls with sensitivity or other adjustments shall be initially set as described. After the Owner has become accustomed to the use of the system, make further changes at the Owner's direction. Provide two visits to the site for this work, in addition to any punchlist, warranty or other visits.
- 6. Use yellow plenum rated category 5e cable for low-voltage wiring, or low-voltage wiring as directed by manufacturer.
- 7. Provide Owner training for each type of lighting control device provided. 8. Label each switch and room controller with a printed circuit label indicating panel and circuit number.
- 9. Locate controllers above drop ceiling by the door to the space or above the ceiling just outside the main entrance in the corridor (where rooms don't have a ceiling.
- 10. Exposed wiring shall be installed in conduit.

Lighting Control Panels

- 1. Lighting control panels shall provide relay-based control of 20A, 120/277V lighting circuits. They shall provide programmable automatic control by integrated 365-day astronomic timeclock, and/or by low-voltage manual switching.
- 2. Provide relays, sensors and switches described and shown on the drawings and all other components required for a complete and operational system. Relays are shown on schedules. Switches are shown on the floor plans. Any interfaces, bus extenders, power supplies, wiring, etc, shall be included. 3. Submittals shall include the following:
- a. Bill of materials including types and quantities of all components.

- b. Standard manufacturer's information on all components, including signal wiring.
- c. Project-specific schedules of panels, switches, and time schedules.
- d. Floor plans showing types of signal wiring and proposed physical
- routing of switch and panel bus wiring, with estimated lengths. e. Floor plans shall show locations of proposed bus extenders, if needed.
- f. Floor plans shall indicate switch addresses.
- g. Submittals not providing the above are inadequate for installation and
- ongoing maintenance of the system and will be rejected. 4. Acceptable equipment shall be manufactured by one of the following. Listing of a manufacturer does not negate any of the requirements described here and
- on the plans. a. Acuity.
- b. Cooper.
- c. Leviton.
- d. Lutron.
- e. Watt Stopper.
- 5. Provide control power to lighting control panel (from the same circuit powering relay 1, UNO).
- 6. If lighting control panels are used to control emergency lighting, system must be listed as a system to UL 924 and include all components required for listing, including a shunt relay for each emergency circuit.
- 7. Provide typed schedules in each panel. Schedules shall show relay number. lighting circuit number, zone, identify which spaces the contractor controls and time schedule.
- 8. Provide day/occupied and night/unoccupied modes. For a schedule such as "Off 6PM, on 7AM", provide four timeclock events: off at 6PM, unoccupied mode at 6PM, on at 7AM, occupied mode at 7AM. For a schedule such as "Off 6PM, manual 7AM", provide three timeclock events: off at 6PM, unoccupied mode at 6PM, occupied mode at 7AM.
- 9. Whenever a time schedule turns off lights, provide a blink-warning sequence five minutes before the off time.
- 10. Confirm time schedule in writing with Owner before programming.
- 11. Low-voltage switches controlling relays in lighting control panel shall be digital bus devices and shall function as follows: In occupied times (when lights are scheduled to be on), switches shall act as manual switches. In unoccupied times (when lights are scheduled to be off), switches shall act as two-hour on-overrides.
- 12. Provide one switch per box gang. Switches shall mount behind standard switch plate (toggle or Decora) and shall provide status LED. Provide decorator style switches that are digital, addressable, and match the lighting control panel. Switches shall be the same color as wiring devices and light switches.
- 13. Factory-authorized technician shall train contractor before system rough-in. After submittals are provided for approval, provide site visit to review system layout, time schedules and interfaces. At the meeting, provide Owner approval of time schedule in writing.
- 14. Factory-authorized technician shall provide on-site system startup. Where construction is broken up into phases, provide separate startup visits for each phase
- 15. Factory-authorized technician shall provide on-site Owner training, at a time and day separate from startup.
- 16. Controls and time schedules shall be initially set as described above and on the Drawings. After the Owner has become accustomed to the use of the system, make further changes at the Owner's direction. Provide two visits to the site for this work, in addition to any punchlist, warranty or other visits.

Lighting Κ.

- 1. Provide submittals for each luminaire. When a luminaire is proposed as a substitute for that specified, provide photometric report for the exact model proposed
- 2. Provide driver/ballast disconnecting means whether or not required by NEC. 3. Each luminaire shall be provided with driver/ballast, lamps, trim and
- mounting hardware suitable for the installed location. 4. Provide hardware to support luminaires independent of the ceiling support
- 5. For grid-mounted luminaires, provide hardware to securely attach the
- luminaires to the grid. 6. For linear pendant luminaires mounted in grid ceilings or on the grid, provide a single junction box with low-profile ceiling trim used to covert from flexible cord to plenum rated circuiting and to support the pendant stem. If necessary to keep separation of normal and emergency circuiting, provide dedicated junction box at one end of the pendant used to support stem and house normal circuiting and another junction box at the other end of the
- pendant used to support the stem and housing of emergency circuiting. 7. When more than one luminaire is joined together to create a longer row or larger pattern, verify with luminaire manufacturer requirements for luminaire interior wiring, driver requirements, and luminaire support requirements prior to submitting a cost to provide the lighting.
- 8. Identify each luminaire on the project with a circuit number. Use self-adhesive labels inside luminaires, placed so that the labels are visible when changing driver but not visible in typical use.
- 9. For adjustable fixtures, adjust as directed by the Architect.
- 10. See architectural ceiling plan for exact placement of lighting. In case of gross discrepancy between lighting plans and architectural ceiling plan, alert architect and engineer for resolution.
- 11. After dirty work is complete, remove construction dust, dirt and finger prints from luminaires, lenses, lamps and reflectors from new lighting.
- L. Emergency Lighting
- 1. Provide emergency lighting equipment as specified on the drawings. 2. If in conduit or box, emergency system wiring shall not be in a conduit shared with normal system wiring.

M. Teledata Wiring System

- 1. Provide a unified teledata wiring system, with a link for each telephone and data jack shown on the drawings. Run cables from jacks to modular patch panels
- 2. Provide plenum-rated horizontal links as follows:
- a. Where indicated for wireless access points, provide two Category 6A links, use white cable.
- b. Where indicated for video surveillance cameras, provide two Category 6A link, use green Category 6A cables.
- c. Otherwise, provide Category 6A links using blue cable.
- 3. Provide raceway except in accessible indoor ceiling spaces, attics and in hollow gypsum-board partitions.
- 4. At jack locations, provide multiport stainless steel faceplates with four openings.
- 5. Provide 21" deep wall-mount 25U or 26U swing rack for data patch panels and Owner equipment--Hubbell HPWWMR48D or Ortronics OR-604045451.
- 6. Provide empty, high-density, 48-port patch panels with at least 10% more openings in each IDF than needed for this project. Provide keystone jacks to
- terminate each installed cable. Provide separate panels for Category 6A. 7. Provide rear cable management bars that screw into the back of the rack at each patch panel. Provide horizontal and vertical wire management panels
- surrounding each patch panel. 8. Train wiring on hinge side of swing rack to permit use of hinge.
- 9. Unless Owner directs otherwise, jack labels shall have the form XY, where X shall be a letter designating the patch panel, and Y shall be a number designating the jack in the patch panel.
- 10. Labels shall be placed at each end of the cable, on the workstation faceplate, and on the patch panel. Use machine-printed, self-adhesive labels.

- 11. Provide as-built plans with each loca the number of jacks.
- 12. Test installed wiring through patch p EIA/TIA standards using an automat
- retest. Submit testing report. 13. Cross-connect wiring and patch cabl
- N. Television Distribution
- 1. Not in scope of work.
- O. Paging System and Public A
- 1. Not in scope of work

S. Intrusion Detection

T. Video Surveillance

U. Fire Alarm

R. Access Control

P. Multimedia

Q. Clock

11. 12. 13. V. 1. D.	Provide as-built plans with each location shown, indicating the label used and the number of jacks. Test installed wiring through patch panels and jack locations to specified EIA/TIA standards using an automated tester. Repair any deficiencies and retest. Submit testing report. Cross-connect wiring and patch cables will be provided by the Owner. Television Distribution Not in scope of work. Paging System and Public Address System Not in scope of work	D'HUY Engineering, Engineering, CONSULTING ENGINEERS: Project Management Facilities Engineering Structural Design & Analysis Mechanical/Electrical/Plumbing Forensic Engineering
1. D.	Multimedia Not in scope of work	
י. 2 .	Clock	One East Broad Street Suite 310
ו. 7.	Access Control	Bethlehem, PA. 18018 610.865.3000 · fax 610.861.0181
2. S.	Not in scope of work. Intrusion Detection	www.dhuy.com
1. -	Not in scope of work.	
1.	Provide IP video surveillance system with cameras, supports, monitor and NVR. See specification section 282300 - Video Surveillance for additional requirements.	
2. 3.	At each camera location, provide data Jack. Where cameras are shown on the drawings, provide vandal resistant type network dome cameras and mounting hardware. Where indicated on on the drawings to provide 360 degree camera, comply with specifications for 360 degree cameras.	
4.	 Provide plenum-rated horizontal links as follows: a. Where indicated for indoor or building mounted video surveillance cameras, provide one Category 6A link. Use green Category 6A cables. b. Where indicated for outdoor video surveillance cameras provide jack at nearest accessible above ceiling indoor location, and 0.75" conduit to outdoor location. Provide outdoor-rated plenum rated Category 6A patch cord and seal conduit. c. See alternate for pole mounted cameras. Where indicated for outdoor video surveillance cameras mounted on site luminaires, provide fiber links for each outdoor camera, as detailed on E7.3. Use outdoor wet location/plant cable, type to match existing cable, cable conduit fill to match existing. EC to field verify existing conduit fill requirements 	
5.	prior to procuring cables for existing cameras. At jack locations, provide plenum rated jack housing box capable of 2 jacks with a protective label cover. Secure how to well or structure	A A
6.	At either end of cable provide 10' looped coiled and secured above the ceiling.	A HIA 19132
7.	Support cables every 4' with j-hooks, sized for 50% future cable fill, in accessible ceilings, use cable in conduit otherwise.	J. H D ELPI
8.	Terminate cables in unloaded patch panel dedicated to cameras. Provide rear cable management bars that screw into the back of the rack at each patch panel, secure cables to support bars. Provide horizontal and vertical wire management panels surrounding each patch panel.	NUC UNN LADF
9. 10.	Unless Owner directs otherwise, jack labels shall have the form XY, where X shall be a letter designating the patch panel, and Y shall be a number	
11.	designating the jack in the patch panel. Labels shall be placed at each end of the cable, on the workstation faceplate,	YG VG
12.	and on the patch panel. Use machine-printed, self-adhesive labels. Provide as-built plans with each location shown, indicating the label used and the number of jacks.	
13.	Test installed wiring through patch panels and jack locations to specified EIA/TIA standards using an automated tester. Repair any deficiencies and	PI - D
14.	retest. Submit testing report. Install cross-connect wiring and patch cables between patch panels and switches, data jacks and cameras.	PR/
15.	Provide startup and adjustment to cameras. Provide Camera Mounting Coordination and Pre-Acceptance Adjusting as noted below, coordinate work with Owner	BL 3
16.	 Camera Mounting Coordination a. Meet with Owner on site to review camera mounting schedule. b. For Owner meeting, provide written schedule describing mounting hardware and proposed viewing angles at each camera location. Use tags on drawings to identify locations. c. During meeting, review placement and mounting of each camera. Mark actual location of proposed camera placement. d. During meeting, review proposed viewing angle of each camera. Show 	VERIFY SCALE 0 BAR IS ONE (1) INCH LONG
	 viewing angles on plan. e. Do not proceed without Owner approval of mounting types, locations, and viewing angles in writing. 	
17.	Pre-Acceptance Adjusting a. After cameras and network are operational, meet with Owner on site to review/adjust camera viewszoom and angle	
	 b. Provide at least three technicians for this adjustment sessiontwo for adjusting cameras and one for conferring with Owner at viewing location. 	
-	 d. Provide to Owner record of settings in writing. 	
J. 1.	Fire Alarm Provide addressable, analog fire alarm system manufactured by Notifier/Honeywell or as approved by PPR, see specifications for Digital, Addressable Fire-Alarm System for additional requirments.	ription
2.	Provide devices shown on the drawings, including remote annunciator, manual pull stations, photoelectric smoke detectors, horn/strobe units, and strobe-only units	Desc
3.	Provide all power supplies, expansion boards, wiring, and programming required to support devices.	By
4.	For each duct smoke detector, provide remote test/indicator station. Coordinate location of station with Owner.	
5.	Provide dial out over digital alarm communicator transmitter.Unit shall receive an alarm, supervisory, or trouble signal from fire-alarm control unit and automatically capture two telephone line(s) and dial a preset number for a remote central station at the City's Central Radio Room. Unit shall also receive an alarm, supervisory, or trouble signal from fire alarm control unit and outcometically:	No. Dat
	transmit radio signals via cellular telephone network for a remote central station at a PPR approved fire alarm monitoring service.	Date02/05/2024Scale:AS NOTED
6. 7.	Wiring shall be listed fire alarm cable as recommended by the manufacturer. Provide shop drawings, I/O matrix, battery calculations, voltage drop calculations and other documentation required by NEPA 72 to the authority.	Job No. 725002
	having jurisdiction. If the authority deems these items as required for approval of LVE plans, LVE requests that these be considered deferred	Sheet Title:
8.	submittals as described in 2018 IBC 107.3.4.1. Obtain permits and satisfactory inspections from authority having jurisdiction.	FI FOTDICAL MOTES
9.	Provide record of completion, owner's manual, record drawings, and other testing and documentation to meet NFPA 72 requirements and satisfy the authority.	ELECINICAL NUTES
		Sheet No.

NOT FOR CONSTRUCTION

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Scale: 1" = 10'-0"

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Tag	Equipment Type	Wiring	Mounting	Comments
KE-1	Residential refrigerator	2 - #12 + #12 gnd. in 3/4" C.	Mount at 48" AFF	NEMA 5-20R GFI
KE-7	General Purpose Receptacles	2 - #12 + #12 gnd. in 3/4" C.	Mount at 18" AFF	NEMA 5-20R GFI
KE-10	Food Waste Disposer	3 - #10 + #10 gnd. in 3/4" C.	Hardwire	through disconnect/controller
KE-11	Exhaust Hood	8 - #10 + #10 gnd. in 1" C.	Hardwire	Provide remote ADA accessible on/off of fan and light
KE-12	Range	4 - #6 + #8 gnd. in 1.25" C.	Mount at 24" AFF	NEMA 14-50R with matching 6' cord and plug, fed from RNG (shunt trip type) to NEMA-14-50R, shunt trip con coordinate shunt control voltage with hood installer.
KE-16	Reach-in freezer	2 - #12 + #12 gnd. in 3/4" C.	Mount at 48" AFF	NEMA 5-20R GFI
KE-17	Reach-in refrigerator	2 - #12 + #12 gnd. in 3/4" C.	Mount at 48" AFF	NEMA 5-20R GFI
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E4.1

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PLAN NOTE

1. PROVIDE 3/4" CONDUIT BETWEEN OUTDOOR HEAT PUMPS AND ASSOCIATED INDOOR AIR HANDLING UNITS FOR HC PROVIDED CONTROL WIRING.

KEY NOTES

- (1) PROVIDE 3 #10 + #10G IN 3/4" CONDUIT BETWEEN OUTDOOR HP-3 AND ASSOCIATED INDOOR AHU-3. PROVIDE CONTROL WIRING BETWEEN OUTDOOR AND INDOOR UNIT. TERMINATIONS SHALL BE MADE IN DS-AHU-3.
- 2 PROVIDE 3 #10 + #10G IN 3/4" CONDUIT.
- $\langle 3 \rangle$ SEE ALTERNATE #1A & #1B FOR WORK ASSOCIATED WITH GYM WOOD FLOORING.
- SEE ALTERNATE #4 FOR WORK ASSOCIATED WITH KITCHEN EQUIPMENT.

D'HUY

Engineering,

Inc. CONSULTING ENGINEERS: Project Management Facilities Engineering Structural Design & Analysis Mechanical/Electrical/Plumbing Forensic Engineering

One East Broad Street Suite 310 Bethlehem, PA. 18018 610.865.3000 · fax 610.861.0181

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SINGLE LINE DIAGRAM - POWER

NO SCALE NOTES:

- PANELS AND EQUIPMENT THAT ARE PART OF THE EMERGENCY SYSTEM, SHALL BE SELECTIVELY COORDINATED TO 0.01 SECONDS AS REQUIRED TO COMPLY WITH ARTICLE 700 OF THE NEC.
- 2. COMPLY WITH PECO REQUIREMENTS FOR NEW UNDERGROUND SERVICE FROM POLE MOUNTED TRANSFORMERS. FINAL TERMINATIONS TO UTILITY TRANSFORMERS BY PECO.

Feeder Schedule

BONDING CONDUCTOR-

EXTERIOR

1" PVC CONDUIT-

	Overcurrent	Phase Wires			Number of					
Tag	Protection	(per conduit)	Ground	Conduit	Conduits	Comments				
F01	600A	4-350kcmil	#1	4"	2	+ 2 spare				
F02	600A	4-350kcmil	#1	4"	2	+ 1 spare				
F03	600A	4-350kcmil	#1	4"	2	+ 1 spare				
F04	200A	4-4/0	#4	2.5"	1					
F05	200A	4-4/0	#4	2.5"	1					
F06	-	-	2/0	-	-	Ground electrode				

CONTINUOUS BARE -

COPPER CONDUCTOR, SIZE

TO MATCH GROUNDING

ELECTRODE CONDUCTOR,

BONDED TO STEEL AS

SHOWN ON DRAWINGS.

GROUND RING ELECTRODE OPTION

· 4

GROUNDING ELECTRODE & STEEL BONDING DETAIL

Scale: 1" = 1'-0"

INTERIOR

- NOTES 1. PROVIDE CONTINUOUS COPPER GROUNDING ELECTRODE AROUND ENTIRE PERIMETER OF BUILDING, EITHER GROUND RING ELECTRODE OPTION OR CONCRETE-ENCASED ELECTRODE OPTION.
- 2. USE ONLY EXOTHERMIC WELDS FOR JOINING COPPER CONDUCTORS
- UNDERGROUND OR WITHIN CONCRETE. 3. BONDING CONDUCTOR SIZE SHALL MATCH GROUNDING ELECTRODE
- CONDUCTOR SIZE. 4. BOND EACH PERIMETER COLUMN AND ADDITIONAL COLUMNS SHOWN ON
- FLOOR PLAN. PROVIDE CLEAN CONNECTION TO STEEL, REMOVE MATERIALS OR PAINT THAT WOULD PREVENT A CLEAN CONNECTIONS.
- 5. BONDING CONNECTORS AT COLUMNS SHALL BE WELDED CONNECTORS LISTED FOR THE APPLICATION. WHERE COLUMN CONNECTORS ARE ACCESSIBLE FOR INSPECTION, MECHANICAL CONNECTORS BOLTED TO COLUMNS MAY BE USED.

TYPICAL TELEDATA LABELING DETAIL NOT TO SCALE

NOTES: 1. FILL UNUSED OPENINGS WITH ELECTRICAL IVORY BLANK MODULES.

2. PATCH PANELS ARE TO BE LABELED IN CONSECUTIVE ORDER STARTING AT RACK LETTER, PORT 001. FACE PLATE SHALL IDENTIFY RACK LETTER AND PORT NUMBER FOR EACH JACK.

3. LABELING SCHEME SHOWN IS AN EXAMPLE. PROVIDE LABELING OF TELEDATA CABLES, PATCH PANELS, AND JACKS AS DEFINED BY OWNER IN WRITING.

TYPICAL TELEDATA RISER DIAGRAM

NO SCALE

- **DIAGRAM NOTES**
- FINAL LOCATION OF DATA JACKS AT TELEVISIONS, MONITORS, PROJECTORS, CAMERAS, & OWNER OR ARCHITECTURAL FURNITURE SHALL BE COORDINATED IN THE FIELD WITH ARCHITECT. PROVIDE FINAL APPROVAL BY OWNER FOR DEVICE LOCATIONS PRIOR TO ROUGH-IN OF CONDUIT AND BOXES.
- 2. PUNCH DOWN TELEPHONE AND DATA OUTLETS THRU CATEGORY 6A PATCH PANELS. PROVIDE ONE SMALL PATCH CABLE BETWEEN PATCH PANEL AND OWNER FURNISHED SWITCHES.
- 3. INSTALL NEW FIBER CABLES, FIBER PATCH PANELS. NETWORK SWITCHES, CAMERA EQUIPMENT & PATCH CABLES BY OWNER.
- 4. PROVIDE STANDARD DATA JACK COVERPLATE WITH MOUNTING STUDS TO MATCH EXISTING TELEPHONES, OR AS REQUESTED.
- PROVIDE VERTICAL GROUND BAR IN CABINET. INSTALL #4 CONDUCTOR FROM GROUND BAR TO BUILDING STRUCTURAL STEEL. BOND CABINET TO PERIMETER GROUND ELECTRODE. BOND EACH POWERED PIECE OF EQUIPMENT IN THE CABINET TO THE GROUND BAR WITH A DEDICATED #12 BONDING CONDUCTOR.

TYPICAL ROOM LIGHTING CONTROLS NO SCALE

NOTES: 1. TYPICAL DEVICES SHOWN ABOVE, PROVIDE ALL DEVICES AND LIGHTING SHOWN ON DRAWINGS.

2. CABLES SHALL BE PLENUM RATED.

3. IN GANG TOILET ROOMS, LOBBY AREA AND THE GYM PROVIDE KEY SWITCHES. WHERE MORE THAN ONE SWITCH IS SHOW IN THE SAME LOCATION, LOCATE SWITCHES UNDER A SINGLE COVERPLATE.

TYPICAL SITE CAMERA WIRING DIAGRAM NO SCALE

- NOTES:
- 1. BASE BID SHOWN
- 2. UNDER ALTERNATE, MAINTAIN CAMERA & MEDIA CONVERTER.
- PROVIDE NEW FIBER (CO-5) BETWEEN EACH CAMERA AND NVR.

Camera Equipment Schedule

Tag	*Equipment Type	Description	Mounting	Comme
CO 1	Pole Mounted Security Camera	New security camera mounted to existing pole	Arm-mounted to surveillance cabinet	Surveillance cabinet mounted to pole.
00-1	Surveillance Cabinet	8" x 10" NEMA 4X rated IK10 impact-resistant	Mounted to pole	Used to house media converter.
CO-2	OmniConverter Media Converter Model #: 9519B-0-29W	2 Port OmniConverter GHPoEBT/S 2x10/100/1000T HPoEBT/PSE (60W per port) to 100/1000BASE-X SFP ;48VDC Wide Temp (-40 to 60 deg C)	In surveillance cabinet	Provide cat 6A cables between media Terminate fiber & power to converter.
CO 2	miConverter Rack Mount Chassis Model #: 1020-1	18-Slot miConverter Powered Chassis Universal 100-240VAC	Mount in CAB-A	Provide (2) 1093-1 blank panels for un
00-3	miConverter Media Converter Model #: 1219-0-0	miConverter GX; 1000BT RJ45 to 1000B-X SFP, No Pwr	Mount in chassis	Provide cat 6A cable jumper from med fiber, extend power conductors to pow
CO-4	Mean Well 960W Power Supply Model #: 9170-PS-960	Mean Well Single Output Industrial DIN RAIL mount; 180-264VAC input, 254-370VDC Input, 960W , 48VDC output	DIN rail	Mount in back of CAB-A, provide DIN r power supply to media converters.
CO-5	CommScope Powered Fiber Cable Model #: PFC-302012	Hybrid Fiber Cable with Copper, OPC		2-strand, OM3, 2-#12 copper conduct
*Basis of des	sign as indicated, or approved equal.			

FIRE-RATED PENETRATION DETAIL NO SCALE

KEY NOTES

- Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features: A Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist
- of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-1/2 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC. B Gypsum Board* - The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- 2 Through Penetrant One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 1-3/8 in. Pipe, conduit or tubing to be rigidly supported on both
 - sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: A Steel Pipe - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B Iron Pipe - Nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in.
 - diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe. C Conduit - Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical
 - metallic tubing. D Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
- E Copper Pipe Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
- Fill Void or Cavity Materials* Caulk Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. diam bead of caulk applied to the penetrant/wallboard interface at the point contact location on both sides of wall. MINNESOTA MINING & MFG CO - FD-150+ *Bearing the UL Classification Mark

converter and new cameras.

nused modules.

dia converter to switch. Terminate /ersupply.

rail terminal blocks for wiring from

tors, LC fitting in raceway.

NO SCALE

- 1 Floor or Wall Assembly Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks* . Max diam of opening is 32 in. See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 2 Through Penetrants One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space shall range from min 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
- A Steel Pipe Nom 30 in. diam (or smaller) Schedule 5 (or heavier) steel pipe. B Iron Pipe - Nom 30 in. diam (or smaller) cast or ductile iron pipe.
- C Conduit Nom 4 in. diam (or smaller) electrical metallic tubing or nom 6 in. diam (or smaller) rigid galv steel conduit. D Copper Tubing - Nom 6 in. diam (or smaller) Type M (or heavier) copper tubing.
- E Copper Pipe Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- 3 Firestop System The firestop system shall consist of the following:
- A Packing Material (Optional, Not Shown) Mineral wool batt insulation, polyethylene backer rod or glass fiber batt insulation friction fitted into annular space. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.
- B Fill, Void or Cavity Material* Caulk Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact location, apply min 1/4 in. diam bead of sealant at the pipe/concrete interface on the top surface of the floor or both surfaces of wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant *Bearing the UL Classification Mark

02/05/2024

Drawn: JCR Appd.: MCD

DETAILS

E7.3

Scale: AS NOTED

Job No. 725002

Sheet Title:

Sheet No.

Date

ADELPHIA

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Z

A 208 Y/120V, 3Ø, 4W	Mech 113	ninaire Schedule			INV H 120 /120V, 1000V
Circuit	Circuit	minaires must be listed and labeled by an NRIL, as required by the NEC.		Lumen	Circuit Num. Poles Size Load (VA) Description
India Poles Size Load (W) Description Color Description Color Description Color C	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Manuf. Model Mounting Description Axis SLIM 2xSurroundLite 4' L x 8" W, direct/indirrect linear fixture, clear top cover direct/indirect, frosted lower lens, mounting height and m architectural drawings and architect, aluminum or other s	Source Color CRI Lumens with batwing distribution, 2 circuits for punting hardware as coordinated with andard finish selection by Architect, grey LED 3500K 80 4000 up / 3000 dwn	Maint Driver Voltage VA W L70 0-10V 120-277V 91 79.5	1 1 5 164 Exit Signs and Emergence 3 1 20 288 Emergency Light - Gym 5 1 20 150 Emergency Light - Lobby 7 1 20 0 Spare
7 3 15 633 Kitchen Make-Up Air-1 (MAU-1) 3753 3120 9 633 (Electrical Heating & Cooling) 2089 DS-HP-3 1456 11 633 1 2089 1456 1456	8 8 30 2 10 10 12 12	Axis SLIM 2xSurroundLite 8' L x 8" W, Direct/indirect linear single section fixture, c	nting hardware ear top cover with batwing distribution, 2		Engraved label Totals Circuit directory
13 3 20 720 Musco Pole Lights P-01. P-02 3840 DS-HP-4 3120 15 720 3840 3840 3120 <td>45 2 14 16 16 25 3 18 20 20 20</td> <td>Litecontrol SAE104 Pendant Pendant Circuits for direct/indirect, trosted lower tens, mounting ne coordinated with architectural drawings and architect, alu and canopy cover selection by Architect, grey cord, stain mounting hardware</td> <td>minum or other standard finish housing LED 3500K 80 8000 up / 6000 dwn 6000 dwn</td> <td>L70 0-10V 60,000hr dim 120-277V 183 159</td> <td>1000VA inverter 20A MLO Pro</td>	45 2 14 16 16 25 3 18 20 20 20	Litecontrol SAE104 Pendant Pendant Circuits for direct/indirect, trosted lower tens, mounting ne coordinated with architectural drawings and architect, alu and canopy cover selection by Architect, grey cord, stain mounting hardware	minum or other standard finish housing LED 3500K 80 8000 up / 6000 dwn 6000 dwn	L70 0-10V 60,000hr dim 120-277V 183 159	1000VA inverter 20A MLO Pro
19 30 200 200 2000 2000 21 360 2360 2000 2000 23 360 2193 1009 1833 25 2 20 1009 AHU-2A & AHU-4 2842 1833	20 22 22 20 3 24 26	Lithonia CSS Columbia LCL Satco NUVO Surface Surface Surface	finish, diffused acrylic lens, wire guard, LED 3500K 80 4,732	L70 0-10V 60,000hr dim 120-277V 41 36	NEMA 1 Wairsurface-mounted enclosure 10kA SCCR Ground bar
27 1009 2842 1833 29 3 60 3723 HP-2 4083 Hot water circulation pumps (2) 360 31 3723 3903 Musco Control Panel Power 180	28 28 20 1 30 20 1 32	1st Source LHB2 Surface 2'X2' LED gym linear high bay fixture, white aluminum hou	sing, coated white wire cage, diffused		
33 3723 9056 Duct Coil DC-1 5333 35 3 20 0 Spare 5333 16kW 5333 37 0 5333 5333 5333 5333 5333	60 3 34 36 38 38	Columbia CLB Surface (see description) acrylic lens, safety cable for lumianire and cage secured fixture secured to slotted steel supports between joists of aircraft cable at 4 points to building structure/support har	to structure, provide surface mounted pendant mounted fixture with adjustable dware above as directed by architect LED 3500K 80 15,528	L70 0-10V 60,000hr dim 120-277V 144 125	
39 0 5 Integral SPD 5 41 1 20 0 Spare 5 200kA 5 43 3 125 0 Spare 5 5 5 45 0 0 Spare 0 Spare 0	30 3 40 42 44 30 2 46	Gotham EV04SQ Kirlin LRC-04CDN Lightolier C4SDL (4S) Recessed structure	specular reflector finish, new construction lopy listed, bar hangers supported to LED 3500K 80 1000	L80 0-10V 120-277V 15 12	
47 0 0 0 0 49 3 200 9080 PNL-B 20010 PNL-C 1093 51 9000 19704 19704 1070	48 0 200 3 50 4 52	Prescolite LDSQ4C Gotham EVO4SQ Kirlin LRC-04CDN 4" architectural square downlight, medium distribution, set	mi-specular reflector, custom RAL color	L80 0-10V 100 07TV 0.1	
Totals 54583 52433 51548 Metal circuit directory holder. Totals derated 53382 51190 50010	<u> </u>	Lightolier C4SDL (4S) Recessed flange, wet location under canopy listed, gasketed, remo Prescolite LDSQ4C Emergi-Lite Preceptor	te driver, new construction housing	60,000hr dim 120-277V 24 19	
Circuit breaker panelboard Hinged door-in-door cover Balanced connected load: 440 A Bolt-on breakers Balanced derated load: 429 A Bolt-A MLO Bolt-on breakers Balanced derated load: 429 A		Lithonia LE Single-faced exit sign, universal mount, white die-cast all lettering, concealed chevron knockouts, AC-only, white w gym	minum housing or as directed, red ire guard option for signs located in the LED	120-277V 3 3	
NEMA 1, surface-mounted enclosure 25kA SCCR (Minimum) Ground bar	Fed from ECB-A	Emergi-Lite Preceptor Lithonia LE Sure-Lites CX Double-faced exit sign, universal mount, white die-cast al lettering, concealed chevron knockouts, AC-only, white way menters	uminum housing or as directed, red ire guard option for signs located in the LED	120-277V 3 3	
B 208 Y/120V, 3Ø, 4W Gener	ral Storage 104	Axis Beam 4 Linear with flush diffuse lens, 4" aperature, length, lumen distribution, flat end caps, single circuit, visible flange mo	s, and drivers as noted below, direct unting unless directed otherwise by	L70 0-10V 120 2770	
Circuit Num. Poles Size Load (VA) Description A B C Description Load (VA) 1 1 20 720 Recept Gym 105 1080 Recept Women 106 360	Circuit /A) Size Poles Num. 20 1 2	Focal Point Seem 4 Recessed Architect, custom color finish as directed by Architect, 10 Axis Beam 4 Architect, custom color finish as directed by Architect, 10	2L/W, threaded rod support from building	60,000hr dim 120-277V	
3 1 20 720 Recept Gym 105 1080 Recept Men 107 360 5 1 20 360 Recept Vest. 100, JC 108 1080 Recept Multi-Purpose 109 720 7 1 20 720 Recept Lobby 101 1260 Recept Multi-Purpose 109 540 9 1 20 540 Recept Office 102 1260 Recept Maker Space 110 720	20 1 4 20 1 6 20 1 8 20 1 10	Finelite HP-4 Focal Point Seem 4 Kecessed Luminare type F, 500L/FT, 6' length. Provide 2 additional	full length lens as attic stock. LED 3500K 80 3,000	L70 0-10V 60,000hr dim 120-277V 30 29.4	
11 1 20 720 Recept Office 102 1440 Recept Maker Space 110 720 13 1 20 720 Recept 102B. 105A 1260 Recept Exterior 540 15 1 20 540 Recept Mech 112 900 Recept Mech 113 360 17 1 20 360 Recept. 109 720 Recept Cym Storage 105B 360	20 1 12 20 1 14 20 1 16 20 1 18	Axis Beam 4 Finelite HP-4 Focal Point Seem 4 Recessed Luminare type F, 725L/FT, 8' length. Provide 2 additional	full length lens as attic stock. LED 3500K 80 5,800	L70 0-10V 60,000hr dim 120-277V 60 56.8	
19 1 20 360 Recept Multi-Purpose 109 720 E.W.C.s Vestibule 100 & Lobby 101 360 21 1 20 180 Recept Maker Space 110 1680 Electric Wall Heaters - EWH-1 1500 23 1 20 540 Recept Restroom 103, Stor. 104 2040 1500	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Axis Beam 4 Finelite HP-4	lighting (50% output) and 1 driver for	1.70 0.10V	
25 1 20 180 Recept Gen Stor 104 1680 Electric Wall Heaters - EWH-2 1500 27 1 20 180 Recept Gen Stor 104 1680 1500 29 1 20 360 Hand dryer - Restroom 103 1860 Electric Wall Heaters - EWH-3 1500 31 1 20 360 Hand dryer - Mens 107 1860 1500	20 2 26 0 28 28 0 20 2 30 0 32 32	Focal Point Seem 4 Axis Beam 4	LED 3500K 80 5,000	60,000hr dim 120-277V 50 49	
33 1 20 360 Hand dryer - Womens 106 1860 Electric Wall Heaters - EWH-4 1500 35 1 20 360 Recept Maker Space 110 1860 1860 1860 1500 37 1 20 360 Recept Maker Space 110 960 Fire alarm panel - Gen. Stor 104 600 20 1 20 200 Descept. 4M/deg Space 140 510 510	20 2 34 0 36 20* 1 38 20* 4 40	Finelite HP-4 Focal Point Seem 4 Kecessed Luminare type F, 500L/FT, 12' length. Provide 2 addition	al full length lens as attic stock. LED 3500K 80 6,000	L70 0-10V 60 58.8 dim	
39 1 20 360 Recept Maker space (10) 540 Inventer (NV-H - Gen. Stor (04) 160 41 1 20 0 Spare 900 Gym - Powered Backstop 900 43 1 20 260 Lts - Mach 112, & Mech 113 260 Spare 0 45 1 20 0 Spare 0 Spare 0	20 1 40 20 1 42 20 1 44 20 1 46	Lithoina WDGE1 Surface Surface LED architectural wall sconce, rectilinear design, visual c dimming standard color selection by Architect, B.(0) U.(0)	omfort wide throw distribution, 0-10V)) G.(0) rating, mounting height as LED 4000K 80 1,200	L70 0-10V 60,000hr dim 120-277V 13 10	
47 1 20 0 Spare 0 Spare 0 49 1 20 0 Spare 0 Spare 0 51 1 20 0 Spare 0 Spare 0 53 1 20 0 Spare 0 Spare 0	20 1 48 20 1 50 20 1 52 20 1 54	Emergi-Lite EM1U-1000-4-LD-AD 1000W high capacity mini inverter, high efficiency sine was charger, replacable charger output fuse protection, low b	ive inverter, temperature compensated attery voltage disconnect, UL 924 listed.		
*Provide handle lock, label lock Totals 9080 9000 Engraved panel label Totals 9080 9000 Metal circuit directory holder. Totals derated 8407 8327 9227		Surface advanced diagnostics - audible, 4-ouputs, 12V valve regulation Axis 12' L x 3" W, direct/indirect linear consisting of 2 6' section	lated lead-calcium (VRLA) batteries, see	<u>120-277V</u> 115 100	
Hinged door-in-door cover Balanced connected load: 78 A Bolt-on breakers Balanced derated load: 72 A reduced receptacle load based on NEC Table 2: 225A MLO 225A MLO 225A MLO 225A MLO 225A MLO	20.44	Pinnacle EX3DI-HE-finish-FSD-2-xx Pendant 2 circuits for direct/indirect, high efficiency lower lens, mo coordinated with architectural drawings and architect, alu and canopy cover selection by Architect, grey cord, stain ceiling mounting bardware suitable for ceiling shown on	unting height and mounting hardware as minum or other standard finish housing LED 3500K 80 9000 dwn less steel adjustable cable, hard sloped architectural drawings	L70 0-10V 120-277V 132 115.2	
NEMA 1 surface-mounted enclosure Bold description and load indicates existing circuit. 10kA SCCR Extend and refeed existing circuit from new breaker. Ground bar State of the second sec	Fed from PNL-A	de 3 additional luminaires as attic stock hitectural drawings for luminaires mounting heights.			
C 208 Y/120V, 3Ø, 4W Gener	ral Storage 104				
Circuit Num. Poles Size Load (VA) Description A B C Description Load (V 1 1 20 1100 Reach-In Refrigerator 1100 Spare 0 3 1 20 1000 Reach-In Freezer 1000 Spare 0	Circuit <u>/A) Size Poles Num.</u> <u>20 1 2</u> <u>20* 1 4</u>	om Controller Schedule			
5120540General Purpose Receptacles720 Dishwasher1807120180General Purpose Receptacles360General Purpose Receptacles1809120180General Purpose Receptacles180Spare0	20 1 6 20* 1 8 20* 1 10	coom Name Number of 0-10V Relays Zones Manual Controls Automatic Controls	Comments		
11 1 20 180 General Purpose Receptacles 1020 Recept. Kitchen 840 13 1 20 1200 Residential Refrigerator/Freezer 5733 Range 4533 15 3 15 900 Kitchen Fan 5433 Circuit thru shuri trip ECB-RNG 4533 17 900 2 Man 5433 Circuit thru shuri trip ECB-RNG 4533	20 1 12 3 *50 3 14 3 16 1 12	Multi-Purpose 109 2 / 1 Z2E On/off/raise/lower Motion sensors on/off Maker Space 110 2 / 0 Z2 On/off/raise/lower Motion sensors on/off	Quick dim, UL924 emergency override, automatic on/off, 15 minute off delay. Quick dim, automatic on/off, 15 minute off delay.		
19 900 900 Spare 0 21 1 20 170 Lts - Rms 102, 103, 104. 102A, 105A 170 0 23 1 20 225 wireadfd 225 0	*50 3 20 22 24	Office 102 2 0 Z1 On/off/raise/lower Motion sensors on/off der Restroom 103 1 1 Z1 Key switch Motion sensors on/off Women 106 1 1 Z1 Key switch Motion sensors on/off	Quick dim, automatic on/off, 15 minute off delay. Quick dim, automatic on/off, 15 minute off delay. Quick dim, automatic on/off, 15 minute off delay. c) Quick dim, UL924 emergency override, automatic on/off, 30 minute off delay.		
25 1 20 1152 Lights - Gym 105 1252 Lights - Exterior Sconce 100 27 1 20 1638 Lights - Multi-purpose 109 2430 Food Waste Disposer 792 29 1 20 945 Lights - Rms 109A, 110 & 111 1737 2hp 792 21 1 20 945 Lights - Rms 109A, 110 & 111 1737 2hp 792	20 1 26 *20 3 28 30	Men 107 1 Z1 Key switch Motion sensors on/off (Ultrason Lobby 101 1 1 Z2 Key switch Motion sensors on/off	 c) Quick dim, UL924 emergency override, automatic on/off, 30 minute off delay. Normal: automatic on/off, 30 minute off delay. Em: on 5am to 10pm (sensor override) and automatic on/off, 30 minute off delay. 		
31 1 20 242 Lights - Rms 1058, 106, 107, 108 1034 792 33 1 20 120 Existing Exterior Security Lighting 940 Kitchen hood 820 35 1 20 120 Existing Exterior Security Lighting 940 Kitchen hood 820 37 1 20 120 Existing Exterior Security Lighting 300 Kitchen hood 820	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ting floor plans and electrical notes for device quantities, locations and additional requirements. Provide attic stock as fo and low-voltage terminations shall be located a junction box or enclosure either in accessible above ceiling space, or in a direct lighting zone.	llows: 2 of each switch, sensor and controller. storage room. Each controller and junction box shall have printed circuit labels and re		
39 2 20 120 Existing Exterior Security Lighting 300 Kitchen bood Ansul system 180 41 1 20 0 Spare 0 Spare 0 43 1 20 0 Spare 0 Spare 0	20 1 40 20 1 42 20 1 44	indirect lighting zone (normal lighting) & 1 direct lighting zone (normal and emergency lighting). ndirect lighting zone & 1 direct lighting zone.			
45 1 20 0 Spare 0 Spare 0 47 2 20 125 Existing Exterior Sports Lighting 250 Existing Exterior Sports Lighting 125 49 125 See new Musco lighting loads in PNLA 250 See new Musco lighting loads in PNLA 125 51 2 20 125 Existing Exterior Sports Lighting 125 51 2 20 125 Existing Exterior Sports Lighting 125	20 1 46 20 2 48 50 20 2 52	tor Starter Schedule			
53 125 See new Musco lighting loads in PNLA 250 See new Musco lighting loads in PNLA 125 *GFI type breaker for kitchen equipment. Engraved panel label Totals 10930 10704 10576 *GFI type	54 breaker	agTypeSizeVoltageFusesEnclosure-EF-1FVNR CombinationNEMA 0208Δ4.5ANEMA 1	Phase WiresGroundConduitAuto. Control3#10#10.75"Hood ControlsCPT, HOA	Notes	s, phase loss relay, electronic overload, aux contact
Nieral circuit directory indicer. Indias derated <u>10402</u> 10134 3712 Circuit breaker panelboard Hinged door-in-door cover Balanced connected load: 89 A Bolt-on breakers Balanced derated load: 84 A Reduced kitchen and receptacle loads based on	NEC	totes 1 Provide class R fuse rejection kits, blown fuse indication, 3 spare fuses, and engraved label.			
225A MLO Table 220.44 & Table 220.56 NEMA 1 surface-mounted enclosure Bold description and load indicates existing circuit. 10kA SCCR Extend and refeed existing circuit from new breaker. Ground bar Ground bar	Fed from PNL-A	closed Circuit Breaker Schedule	Conduit Comments		
Lighting Control Panel LCA		Rating B-A 208Y/120V 600A 600A 25k AIC NEMA 3R See Single Line Diagram - I RNG 208Y/120V 60A 50A 10k AIC NEMA 1 See Kitchen Electrical Equip	Power Service entrance listed with bonding termination. Poment Schedule Range, shunt trip type, shunt trip voltage as coordinated, contra	ol via the hood.	
Relay Circuit Load (VA) Zone Description *Initial Time Schedule 1 C-47,49 2000 Existing Exterior Sports Lighting Manual On, Off 10PM	Notes	otes: 1 Breaker to be capable of accepting a padlock in both on and off positions. NEMA 3R covers shall ha 2 Provide ground lugs and neutral kit. 3 Provide thermal magnetic breaker with adjustable instantaneous trip setting.	ave hasp lock used to prevent unauthorized access and engraved label on cover.		
Z C-48,50 Z000 Existing Exterior Sports Lighting Manual On, Off 10PM 3 C-51,53 2000 Existing Exterior Sports Lighting Manual On, Off 10PM 4 C-52,54 2000 Existing Exterior Sports Lighting Manual On, Off 10PM 5 C-33 120 Existing Exterior Security Lighting Manual On, Off 10PM	ck Lights	connect Switch Schedule] 	
6 C-35 120 Existing Exterior Security Lighting Manual On, Off 10PM Trac 7 C-37 120 Existing Exterior Security Lighting Manual On, Off 10PM Play 8 C-39 120 Existing Exterior Security Lighting Manual On, Off 10PM Play	ck Lights /ground Lights /ground Lights	ag Voltage Size Fuses Enclosure Phase Wires Ground Condu	t Comments		
9 Spare 10 10 Spare 11		U-3 208V 30A NF NEMA 1 3#10 #10 3/4" C-1 208V 60A NF NEMA 1 3#6 #8 1" DAS-1 208A 200A 125A NEMA 3D 3#1 #6 #6 4.5"	Provide wiring from HP-3 thru DS-AHU-3 to AHU-3 Disconnect by HC, EC to provide circuiting through disconnect to equipment		
12 Spare 12 Spare *Time schedule shown for reference only. Provid	e Owner furnished time schedule.	ΔU-1 200Δ 30A 8A NEMA 1 3#12 #12 0.75 -1 208V 60A 40A NEMA 3R 2#8 #10 1"	Disconnect by HC, EC to provide circuiting through disconnect to equipment Disconnect by HC, EC to provide circuiting through disconnect to equipment		
		-2 208Δ 60A 60A NEMA 3R 3#6 #8 1" -3 208V 30A 30A NEMA 3R 2#10 #10 .75" -4 208V 60A 45A NEMA 3R 2#0 #40 .75"		_	
		2000 00A 40A INEIVIA SIX 2#0 #10 ./5" otes: 1 For all switches, provide hasp for padlocking in both on and off positions and engraved label on face 2 For all switches, provide ground lugs. 2	e of disconnect, or HVAC equipment cover.		
		3 For all outdoor switches, provide watertight threaded conduit hub kit. 4 For fused switches, provide class R fuse rejection kit. 5 For all fuses works for a match and the suit fuse line in the fu		_	
		 B For all luses, verify fuse sizes match equipment nameplate and fuses have blown fuse indication. 6 For all switches, provide clear shield kits with probe holes for user testing over live terminations. 			

D

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Sizo	Fuene	Enclosuro	Phase Wires	Ground	Conduit	Comments			
SIZE	1 4363	LIICIUSUIE	Filase willes	Ground	Conduit	Comments			
30A	NF	NEMA 1	3#10	#10	3/4"	Provide wiring from HP-3 thru DS-AHU-3 to AHU-3			
60A	NF	NEMA 1	3#6	#8	1"	Disconnect by HC, EC to provide circuiting through disconnect to equipment			
200A	125A	NEMA 3R	3#1	#6	1.5"	Disconnect by HC, EC to provide circuiting through disconnect to equipment			
30A	30A 8A NEMA 1 3#12 #12 0.75 Disconnect by HC, EC to provide circuiting through disconnect to equipment								
60A 40A NEMA 3R 2#8 #10 1"									
60A 60A NEMA 3R 3#6 #8 1"									
30A 30A NEMA 3R 2#10 #10 .75"									
60A	60A 45A NEMA 3R 2#8 #10 .75"								
, provide has	provide hasp for padlocking in both on and off positions and engraved label on face of disconnect, or HVAC equipment cover.								
, provide gro	provide ground lugs.								
switches, pro	witches, provide watertight threaded conduit hub kit.								
hes, provide	class R fuse re	ejection kit.							
erify fuse size	s match equip	ment nameplat	te and fuses have	blown fuse inc	dication.				
provide clea	ar shield kits w	ith probe holes	s for user testing	over live termi	nations.				

REBUILD -VINCENT G. PANATI REBUILD -VINCENT G. PANATI PLAYGROUND for for for 3101-27 N 22ND ST, PHILADELPHIA PA 19132
Image: Sheet No. Image: Sheet No. Image: Sheet No. Image: Sheet No. Image: Sheet No. Image: Sheet No. Image: Sheet No. Image: Sheet No.

IINV	H		120	/120V, 1000W			Genera	l Sto	rage	104
Circuit				[Circuit
Num.	Poles	Size	Load (VA)	Description	Phase	Description	Load (VA)	Size	Poles	Num.
1	1	5	164	Exit Signs and Emergency Lights - Lobby	346	Emergency Light - Mult-purpose 109	182	20	1	2
3	1	20	288	Emergency Light - Gym 105	343	Emergency Light - Restrooms 106,107	55	20	1	4
5	1	20	150	Emergency Light - Lobby 101, Vest 100	224	Emergency Light - Exterior	74	20	1	6
7	1	20	0	Spare	0	Spare	0	20	1	8
_	d lahol			Totals	913	See type H on Luminaire	e Schedule for	^r additio	nal requ	iirements
Engrave Circuit d	rectory			Balanced connected load:	8	A	Emergency w	/iring sh	all be #1	10 AWG
Engrave Circuit d 1000VA 20A ML0 NEMA 1 10kA SC	inverter D wall/sur	face-m	ounted enclos	Balanced connected load: Provide 90 minutes sure Emergency wiri raceways and	8 of illluminatio ing shall not I boxes with	A on at 1000VA output share common normal wiring	Emergency w	/iring sh	all be #1	10 AWG

- OWNER.
- FINISHED AREAS SHALL BE CHROME PLATED BRASS.
- PIPING BELOW GRADE SHALL BE A MINIMUM OF 2" IN SIZE.
- 5.
- DIMENSIONS AT SITE.
- SEISMIC CONDITIONS.
- MATERIALS.
- 9

- METALS.
- CONDITIONED SIDE OF THE INSULATION.
- DRAWINGS.
- RECORD DRAWINGS.
- PLUMBING CODE INCLUDING LOCAL CODES.
- ATTENTION OF THE ARCHITECT AND ENGINEER.
- FIRE RESISTANT CAULKING/MATERIALS.
- COLOR SELECTED BY THE ARCHITECT.
- COMPLIANT.
- COMPLETION OF PROJECT.

ΔD

AFG

AFR

AV

AW

BFG

BFP

BLW

BOP

BOTT

BTUB

CA

CD

CFH

CIP

CO

CW

DF

DIP

DS

DSN

EEW

ESH ESE

EWC

EXT

FDN

FS

FT

FT HD

FTG

GALV

GH

GL

GS

GSV

HB

HOR

HTG HW

ID

FD

GENERAL PLUMBING NOTES

PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.

THE PLUMBING DRAWINGS SHALL BE CONSIDERED AS BEING DIAGRAMMATIC AND ARE NOT TO BE SCALED FOR THE ACCURATE CUTTING OF PIPE OR ITS EXACT PLACEMENT, BUT THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. BEFORE ANY PIPING IS INSTALLED, CONFER WITH ALL OTHER CONTRACTORS IN ORDER TO ESTABLISH THE LOCATIONS OF THEIR PIPING, CONDUIT, DUCTWORK, GRILLES, FOUNDATIONS, STRUCTURAL STEEL, LIGHTING FIXTURES AND OTHER EQUIPMENT SO AS TO AVOID INTERFERENCE. FAILURE TO COORDINATE SHALL NOT RESULT IN ANY ADDITIONAL EXPENSE TO THE

ALL FIXTURES SHALL BE COMPLETE AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. TRAPS FOR ALL LAVATORIES AND SINKS SHALL BE REMOVABLE. LOCATE VALVES IN A READILY ACCESSIBLE LOCATION. ALL EXPOSED WASTE AND SUPPLY PIPING LOCATED IN

REFER TO THE RISER DIAGRAMS FOR ALL PIPE SIZES AND PIPING NOT SHOWN ON THE PLANS. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL WASTE

SECURE ALL PERMITS, INSPECTION CERTIFICATES, METER DEPOSITS, TAPS AND TAP FEES, ETC., AND PAY ALL CHARGES CONNECTED WITH SAME.

6. ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY

7. ALL PIPING, APPARATUS, EQUIPMENT, ETC. SHALL BE PROPERLY SUPPORTED, BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH APPLICABLE CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT DURING

8. ALL VALVES, CLEANOUTS, ETC., SHALL BE LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED

PROVIDE CLEANOUTS ON ALL ACCESSIBLE TRAPS, AT THE BASE OF ALL SOIL/WASTE STACKS AND RAINWATER CONDUCTORS, AT EACH CHANGE OF DIRECTION OF PIPING GREATER THAN 45 DEGREES AND LOCATED AT INTERVALS NOT TO EXCEED THE MAXIMUM PERMITTED BY THE APPLICABLE PLUMBING CODE AND AS INDICATED ON THE DRAWINGS.

10. STERILIZE NEW DOMESTIC WATER PIPING AND PORTIONS OF THE EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO USING. COMPLY WITH PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR, IN THE ABSENCE OF PRESCRIBED METHOD, THE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652, OR AS DESCRIBED IN THE APPLICABLE PLUMBING CODE. FURNISH STERILIZATION REPORT TO ENGINEER UPON COMPLETION.

11. ALL DOMESTIC WATER PIPING SHALL BE HUNG LEVEL WITHOUT PITCH.

12. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PREVENT CONTACT WITH OTHER

13. WATER PIPING SHALL NOT BE RUN IN AREAS SUBJECT TO FREEZING TEMPERATURES. WATER PIPING IN EXTERIOR WALLS SHALL BE RUN ON

14. ALL WATER PIPING SHALL BE INSULATED AND ALL WATER PIPING INSTALLED ABOVE THE CEILING SHALL BE BELOW THE BUILDING INSULATION.

15. PROVIDE WATER HAMMER ARRESTERS AS REQUIRED AND AS SHOWN ON THE

16. PROVIDE DRAIN VALVES AT ALL LOW POINTS OF DOMESTIC WATER PIPING SYSTEMS FOR COMPLETE DRAINAGE AND INDICATE LOCATION OF SAME ON

17. PROVIDE VACUUM BREAKERS AS REQUIRED BY CODE.

18. ALL PLUMBING FIXTURES MUST BE VENTED IN ACCORDANCE WITH APPLICABLE

19. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, FIXTURES, WALL DIMENSIONS, ETC.

20. THE ARCHITECTURAL DRAWINGS, INCLUDING INTERIOR ELEVATIONS, SHALL GOVERN THE ARRANGEMENT, LOCATION, AND MOUNTING HEIGHTS OF ALL FIXTURES AND EQUIPMENT, BUT NOT TO THE EXTENT OF PERMITTING ANY OMISSIONS OF FIXTURES OR EQUIPMENT SHOWN ON THE PLUMBING DRAWINGS. ANY DISCREPANCY BETWEEN THE DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE IMMEDIATE

21. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH

22. COORDINATE FINAL FLOOR DRAIN LOCATIONS WITH ALL EQUIPMENT CONCRETE PADS, TOILET ROOM PARTITIONS, FURNITURE, ETC. OBTAIN EXACT LOCATIONS FROM ALL OTHER CONTRACTORS PRIOR TO INSTALLING DRAINS.

23. CAULK AROUND ALL PLUMBING FIXTURES INSTALLED. CAULK SHALL BE NON-HARDENING, NON-YELLOWING, MILDEW RESISTANT SILICONE AND IN A

24. ANY REFERENCE TO "GC" OR "GENERAL CONTRACTOR" SHALL MEAN THE APPROPRIATE GENERAL TRADES CONTRACTOR. THIS REFERENCE IS NOT TO OUTLINE WORK AMONG GENERAL TRADES CONTRACTORS, BUT TO NOTE WHAT WORK IS NOT A PART OF THE PLUMBING CONTRACT.

25. ALL POTABLE WATER PIPING, DEVICES AND EQUIPMENT SHALL BE NSF-61

26. NO DEAD-LEG SUPPLY (3X PIPE DIA. MAXIMUM) SHALL BE IN PLACE UPON

27. ACCESS TO BOTH EXISTING AND NEW VALVES AND TO EQUIPMENT WHICH WILL REQUIRE ROUTINE MAINTENANCE WILL BE THRU ACOUSTIC CEILINGS WHEREVER POSSIBLE. LOCATE VALVES AND EQUIPMENT TO FACILITATE SUCH ACCESS. WHERE ACCESS CANNOT BE GAINED THRU SUSPENDED CEILINGS, GC IS TO PROVIDE ACCESS PANELS OR DOORS FLUSH WITH CEILING.

	PLUMBING SYMB	OLS	
	- DOMESTIC COLD WATER		BACKFLOW
	- DOMESTIC HOT WATER		BACKWATE
	- DOMESTIC HOT WATER RETURN		BALL/BUTTE
•	EXIST DOMESTIC COLD WATER	N	GATE VALVE
••	EXIST DOMESTIC HOT WATER		GLOBE VAL
	EXIST DOMESTIC HOT WATER RETURN		CHECK VAL
TW	– TEPID WATER		SOLENOID V
	 SANITARY/WASTE UNDERGROUND 	ū	BALANCING
	 SANITARY/WASTE ABOVEGROUND 	Ì	MEMORY ST
	- EXIST SANITARY/WASTE UNDERGROUND		RELIEF VAL
	- EXIST SANITARY/WASTE ABOVEGROUND	×	MIXING VAL
	- RAIN/STORM WATER UNDERGROUND	×	CIRCUIT SO
	- RAIN/STORM WATER ABOVE GROUND		RECIRCULA
— — ERW— —	- EXIST RAIN/STORM WATER UNDERGROUND		GAS SHUT-C
ERW	- EXIST RAIN/STORM WATER ABOVEGROUND	······································	WATER HAM
	– VENT	——————————————————————————————————————	STRAINER
G	– GAS		UNION
EG	EXIST GAS		THERMOME
AT	- AIRTIGHT CONDUIT	Ø	
— — GW —	GREASE WASTE UNDERGROUND	PR	
GW	GREASE WASTE ABOVEGROUND		
— — — AV— — –	- ACID VENT		VALVE
TP	– TRAP PRIMER		WALL HYDR
CA	- COMPRESSED AIR		FLOOR CLEA
MA	– MEDICAL AIR		
ox	– OXYGEN	Y	
VAC	- VACUUM		PIPE CAP
N2O	- NITROUS OXIDE	(> PIPE RISE
WAGD	- WASTE ANESTHESIA GAS DISPOSAL		PIPE DROP
N	– NITROGEN		DIRECTION
CO2	- CARBON DIOXIDE		EXPANSION
DE	- DEIONIZED WATER	M	FLEXIBLE C
AC	- ACETYLENE		MOMENT GU
AR	– ARGON	—— <u>×</u>	PIPE ANCHO
LCW	- LAB COLD WATER		SUPPORT C
		——————————————————————————————————————	SUPPORT C

PLUMBING ABBREVIATIONS

AREA DRAIN	INSUL	INSULATION
ABOVE FINISHED GRADE	INT	INTERIOR
ABOVE FINISHED ROOF	INV	INVERT
ACID VENT	IW	INDIRECT WASTE
ACID WASTE	KW	KILOWATT
BELOW FINISHED GRADE	LAV	LAVATORY
BACKFLOW PREVENTER	LBS	POUNDS
BELOW	LMB	LAUNDRY MACHINE BOX
BOTTOM OF PIPE	MFG	MANUFACTURER
ВОТТОМ	MB	MOP BASIN
BATHTUB	MBH	1,000 BTU
COMPRESSED AIR	MV	MIXING VALVE
CONDENSATE DRAIN	OD	OUTSIDE DIAMETER
CUBIC FEET PER HOUR	ORD	OVERFLOW ROOF DRAIN
CAST IRON PIPE	Р	PRESSURE GAUGE
CLEAN OUT	PD	PRESSURE DROP
COLD WATER	PRV	PRESSURE REDUCING VALVE
DRINKING FOUNTAIN	PSIG	POUNDS PER SQUARE INCH GAUG
DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DOWNSPOUT	RD	ROOF DRAIN
DOWNSPOUT NOZZLE	RP	RECIRCULATING PUMP
EMERGENCY EYEWASH	RPM	REVOLUTIONS PER MINUTE
EMERGENCY SHOWER	RWC	RAINWATER CONDUCTOR
EMERGENCY SHOWER/EYEWASH	S	SOIL LINE/STACK
ELECTRIC WATER COOLER	SAN	SANITARY SEWER
EXTERIOR	SK	SINK
FLOOR DRAIN	SH	SHOWER
FOUNDATION	SI	SOLIDS INTERCEPTOR
FLOOR SINK	SS	SERVICE SINK
FEET	Т	THERMOMETER
FEET OF HEAD	TD	TRENCH DRAIN
FOOTING	TW	TEPID WATER
GALVANIZED	UR	URINAL
GROUND HYDRANT	V	VENT
GREASE INTERCEPTOR	VER	VERTICAL
GREASE SEPARATOR	VTR	VENT THRU ROOF
GAS SOLENOID VALVE	W	WASTE
HOSE BIBB	WC	WATER CLOSET
HORIZONTAL	WCO	WALL CLEAN OUT
HEATING	WF	WASHFOUNTAIN
HOT WATER	WH	WALL HYDRANT
HOT WATER HEATER	WHA	WATER HAMMER ARRESTER
HOT WATER RETURN	WSV	WATER SOLENOID VALVE
INSIDE DIAMETER		

PREVENTER ER VALVE ERFLY VALVE VALVE VALVE WITH TOP TEMPERATURE

LVER ATIC TION VALVE -OFF VALVE MMER ARRESTER

ETER GAUGE REGULATOR REDUCING RANT

ANOUT

- NOUT
- OF FLOW JOINT CONNECTION
- URB CURB W/ANCHOR
- FLOOR DRAIN FLOOR SINK AIR STATION
- UIDE ROOF DRAIN

(6)

(A1)

COMMON ABBREVIATIONS

НС
HCP
HGT
HR
IR
JB
KES
LV
MC
MCA
MOCP
MI
MO
NA
NE
NIC
NIS
OFCI
PC
PIR
REC
SE
SECT
SHT
SIM
SPD
SPEC
SS
STD
SUSP
TBR
UNO
05
14//
W/
W/ W/O

COMMON SYMBOLS

	PLAN NORTH
A H1.1	-SECTION ID -SHEET NO. WHERE SECTION IS -DIRECTIONAL VIEW OF SECTION
\bigcirc	REVISION CLOUD
\bigwedge	REVISION NUMBER
	ELEVATION 100.00'
	DIRECTION OF VIEW
	-SHEET NO. WHERE EL. IS DRAWN -ELEVATION ID
$\langle 1 \rangle$	KEYNOTE
1 H1.1	—DETAIL ID —SHEET NO. WHERE DETAIL IS
101	ROOM/SPACE NO.
	EQUIPMENT TAG SHOWING TYPE AND ID. SEE EQUIPMENT SCHEDULES FOR DETAILS
	PROVIDE NEW
	EXISTING TO REMAIN
	REMOVE EXISTING
$\mathbf{\Theta}$	CONNECT TO EXISTING
\blacklozenge	EXISTING TO BE REMOVED

DRAWING LIST

P0.1	COVER SHEET
P1.1	SITE PLAN
P2.1	FLOOR PLANDRAINAGE
P2.2	ROOF & MEZZANINE PLANS
P3.1	FLOOR PLANSUPPLY
P7.1	DETAILS
P8.1	SCHEDULES
H0.1	COVER SHEET
H2.1	FLOOR PLAN
H2.2	ROOF PLAN
H7.1	DETAILS
H8.1	DETAILS & SCHEDULES
E0.1	COVER SHEET
E0.2	ELECTRICAL NOTES
E0.3	SITE PLAN - DEMOLITION
E0.4	SITE PLAN - NEW
E2.1	FLOOR PLAN - LIGHTING
E3.1	FLOOR PLAN - POWER
E4.1	FLOOR PLAN - LOW-VOLTAG
E5.1	MEZZANINE PLANS
E7.1	DETAILS
E7.2	DETAILS
E7.3	DETAILS
E8.1	SCHEDULES

D'HUY Engineering, Inc. CONSULTING ENGINEERS: Project Management Facilities Engineering Structural Design & Analysis Mechanical/Electrical/Plumbing Forensic Engineering One East Broad Street Suite 310 Bethlehem, PA. 18018 610.865.3000 · fax 610.861.0181 www.dhuy.com cicada architecture planning EN 1000 STUEL - DOI 12 - FRANK STUDIE-15 ST MAD Ż LPHIA PA 19132 Δ \mathcal{O} PHIA \Box 00 HL Ľ R PF Ž \cup エア \sim þ Β /RE **D** Z \frown PR, Η D Δ Β Ц K

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NOT TO SCALE

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DOMESTIC SUPPLY RISER DIAGRAM

NOT FOR CONSTRUCTION

<section-header><text><text><text><text><text><text></text></text></text></text></text></text></section-header>									
			REBUILD -VINCENT G. PANATI			for	- PPR/REBUILD PHILADELPHIA		3101-27 N 22ND 31 , PHILADELPHIA PA 19152
2 D F S D S Date By Description	ate cale bb N praw	BAA O O Vn: . Tri	R IS OON N ORI 022 A 722 JH tle:	NE (1 GINA 2/03 S N 250) INC L DR/ 5/20 JO7 02 A		NG G 1.: N	JRZ	
SI	FL	t Ti OO t No	tle: DR F D. P	²¹ 2		- st	JPP	LY	

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PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

WATER CLOSET (WC-1A - ADA)

- ZURN, Mo. Z5665-BWL-AM, FLOOR MOUNTED, ELONGATED, TOP SPUD, ADA HEIGHT, ANTIMICROBIAL SURFACE, WHITE WITH: a. ZURN, AQUAVANTAGE AV Mo. Z6000AV-WS1, LOW CONSUMPTION MANUAL FLUSH VALVE,
- 1.6 GPF:
- b. BEMIS OR EQUAL, WHITE, ELONGATED OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES; c. CLOSET FLANGE WITH WAX GASKET OR PROSET SYSTEMS PROSEAL CLOSET ASSEMBLY
- AS REQUIRED; d. BOLT CAPS:
- e. FLUSH VALVE LEVER SHALL BE LOCATED ON ACCESS SIDE; f. MOUNTING HEIGHT: 16.75" FROM FINISHED FLOOR TO RIM. VERIFY WITH ARCHITECTURAL
- DRAWINGS: g. REFER TO ARCHITECTURAL DRAWINGS FOR SPACING. VERIFY LOCATION OF ADA COMPLIANT FIXTURES SHOWN ON THE PLUMBING DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.

WATER CLOSET (WC-2)

- ZURN, Mo. Z5655-BWL-AM, FLOOR MOUNTED, ELONGATED, TOP SPUD, ANTIMICROBIAL SURFACE, WHITE WITH: a. ZURN, AQUAVANTAGE AV Mo. Z6000AV-WS1, LOW CONSUMPTION MANUAL FLUSH VALVE,
- 1.6 GPF: b. BEMIS OR EQUAL, WHITE, ELONGATED OPEN FRONT SEAT LESS COVER WITH
- SELF-SUSTAINING CHECK HINGES; c. CLOSET FLANGE WITH WAX GASKET OR PROSET SYSTEMS PROSEAL CLOSET ASSEMBLY
- AS REQUIRED; d. BOLT CAPS;
- e. FLUSH VALVE LEVER SHALL BE LOCATED ON ACCESS SIDE; f. REFER TO ARCHITECTURAL DRAWINGS FOR SPACING.

URINAL (UR-1)

- ZURN, Mo. Z5730 TOP SPUD, SIPHON JET, WHITE WITH: a. ZURN AQUAVANTAGE AV Mo. Z6003AV-WS1, MANUAL, EXPOSED DIAPHRAGM FLUSH
- VALVE, 1.0 GPF; b. ZURN, Mo. Z1221-EZ URINAL SUPPORT. BOLT SUPPORT TO FLOOR IN ACCORDANCE WITH
- MANUFACTURER'S INSTRUCTIONS; c. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND SPACING. VERIFY
- LOCATION OF ADA COMPLIANT FIXTURES SHOWN ON THE PLUMBING DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.

LAVATORY (LAV-1A - ADA)

- ZURN, Mo. Z5364 HIGH-BACK WALL HUNG, 4" CENTER FAUCET HOLES, WHITE, WITH: a. CHICAGO, Mo. 3501-4E39VPABCP DECK MOUNTED 3-HOLE METERING CHROME PLATED FAUCET, VANDAL-PROOF PRESSURE-COMPENSATING 0.35 GPM NON-AERATING SPRAY
- OUTLET, INTERNAL CONTROL MIXER, AND 4" C.C. DECK COVER PLATE; b. McGUIRE GRID DRAIN WITH TAILPIECE, (PROWRAP SERIES) MOLDED CLOSED CELL VINYL. ANTIMICROBIAL
- c. McGUIRE (PROWRAP SERIES) MOLDED, CLOSED CELL VINYL, ANTIMICROBIAL 'P' TRAP (1 1/4" x 1 1/2") TO WALL WITH CLEANOUT;
- d. McGUIRE, MODEL LF-BV170 CHROME PLATED ALL BRASS QUARTER-TURN BALL VALVE STOPS WITH CHROME BRAIDED SUPPLIES. (SWEAT WITH EXTENSION TO COMPRESSION OR COMPRESSION TO COMPRESSION PREFERRED);
- e. ZURN, Mo. Z1231-EZ UNIVERSAL LAVATORY SUPPORT. BOLT SUPPORT TO FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS; f. MV-2 -- WATTS MODEL LFUSG-B-M3. MOUNT HIGH & TIGHT BELOW LAVATORY ON WALL.
- SET DELIVERY TEMPERATURE TO 95 DEGREES F. VERIFY TEMPERATURE SETTING WITH OWNER
- g. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND SPACING. VERIFY LOCATION ADA COMPLIANT FIXTURES SHOWN ON THE PLUMBING DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.

NOTE: INSULATE ALL EXPOSED DRAIN AND WATER PIPING ON ADA COMPLIANT FIXTURES WITH MODEL #PW2000 SEAMLESS PROWRAP INSULATION KITS AS MANUFACTURED BY McGUIRE MFG. CO., INC.

ELECTRIC WATER COOLER (EWC-1A - ADA)

- ELKAY, MODEL LVRCTL8WSK, WALL-MOUNTED, VANDAL-RESISTANT BI-LEVEL ADA-COMPLIANT COOLER, EZH20 BOTTLE FILLING STATION, FILTERED, 8.0 GPH CHILLING CAPACITY, GREENSPEC LISTED, DURABLE SATIN FINISH STAINLESS STEEL WITH ALL
- STANDARD EQUIPMENT. PROVIDE: a. PVC P-TRAP AS REQUIRED WITH CLEANOUT AND WATER SUPPLY SHUT-OFF VALVE; b. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. INSTALL UNITS AT ADULT ADA HEIGHT IN ACCORDANCE WITH THE MANUFACTURER. VERIFY WITH
- ARCHITECTURAL DRAWINGS;

c. PROVIDE ELKAY MODEL LKAPR2 CANE APRON.

BOTTLE FILLING STATION (BF-1A - ADA)

- ELKAY, MODEL LZWSM8K, IN-WALL ADA BARRIER FREE, EZH2O BOTTLE FILLING STATION, FILTERED, 8.0 GPH CHILLING CAPACITY, GREENSPEC LISTED, DURABLE SATIN FINISH
- STAINLESS STEEL WITH ALL STANDARD EQUIPMENT. PROVIDE:
- a. PVC P-TRAP AS REQUIRED WITH CLEANOUT AND WATER SUPPLY SHUT-OFF VALVE; b. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. INSTALL UNIT AT ADULT
- ADA HEIGHT IN ACCORDANCE WITH THE MANUFACTURER.

MOP BASIN (MB-1)

- ZURN, Mo. Z1996-24 (24"x 24"x 10") MOP SERVICE BASIN MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STRAINER 3"GASKETED OUTLET. PROVIDE: a. CHICAGO, Mo. 445-VBRXKCRCF, CHROME PLATED SERVICE SINK FAUCET WITH VACUUM BREAKER, PAIL HOOK, HOSE THREAD, INTEGRAL SERVICE CHECK STOPS, AND TOP WALL
- BRACE: b. ZURN Mo. ZJP1996-HH HOSE AND HOSE BRACKET;
- c. ZURN Mo. ZJP1996-MH MOP HANGER LOCATED AS DIRECTED BY THE ARCHITECT;
- d. ZURN SILICONE SEALANT; e. DEEP SEAL P-TRAP ON DRAIN OUTLET.

FLOOR DRAIN - FINISHED AREAS (FD-1)

SMITH, FIG. 2005Y-A WITH 6" DIA. NICKEL BRONZE STRAINER. PROVIDE PROSET SYSTEMS INC. TRAP GUARD IN FLOOR DRAIN STRAINER AND DEEP SEAL P-TRAP ON DRAIN OUTLET. PROVIDE DEEP SEAL P-TRAP WITH CLEANOUT WHERE TRAPS ARE LOCATED ABOVE ACCESSIBLE CEILINGS OR EXPOSED IN MECHANICAL ROOMS.

FLOOR DRAIN - MECHANICAL AREAS (FD-2)

SMITH, FIG. 2508 WITH 6" DIA. NICKEL BRONZE STRAINER. PROVIDE PROSET SYSTEMS INC. TRAP GUARD IN FLOOR DRAIN STRAINER AND DEEP SEAL P-TRAP ON DRAIN OUTLET. PROVIDE DEEP SEAL P-TRAP WITH CLEANOUT WHERE TRAPS ARE LOCATED ABOVE ACCESSIBLE CEILINGS OR EXPOSED IN MECHANICAL ROOMS.

FLOOR CLEANOUT (FCO)

SMITH, FIG. 4028C, INSIDE CAULK OR SPEEDI-SET OUTLET WITH ROUND SCORIATED NICKEL-BRONZE TOP AND TAPER THREAD BRONZE PLUG. PROVIDE CARPET CLAMPING FRAME IN CARPETED FLOORS.

WALL HYDRANT - NON FREEZE (WH-1)

WOODFORD Mo. RB65, AUTOMATIC DRAINING, NON-FREEZE WALL HYDRANT WITH BRONZE RECESSED BOX WITH CHROME PLATED FACE, VACUUM BREAKER, "WATER" CAST ON COVER, WALL CLAMP WHERE APPLICABLE AND CYLINDER LOCK. INSTALL UNIT APPROXIMATELY 24" ABOVE FINISHED GRADE TOTALLY WITHIN THE SAME COLOR MASONRY.

GREASE INTERCEPTOR (GI-1)

SCHIER, MODEL NO. GB-50, HIGH EFFICIENCY INTERCEPTOR, FULLY RECESSED WITH ALL STANDARD EQUIPMENT INCLUDING FACTORY INSTALLED WITH FLOW CONTROL. ENGINEERED 4" INLET AND OUTLET. PROVIDE RISER COLLAR AS REQUIRED. THE ENTIRE EXCAVATION, INSTALLATION AND BACKFILL SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. FLOW RATE: 35 GPM

- LIQUID CAPACITY: 35 GALLONS
- LBS. GREASE CAPACITY: 142

WATER HEATER (HWH-1) BRADFORD WHITE, MODEL LE2120T3-3

STORAGE CAPACITY: 119 GALLONS.

RECOVERY: 23 GPH AT 100 DEGREES F. TEMPERATURE RISE. ELECTRICAL REQUIREMENTS: 5.5kW, 208 VOLTS, THREE PHASE. UNIT TO BE FURNISHED WITH ALL STANDARD EQUIPMENT INCLUDING AN ASME TEMPERATURE AND PRESSURE RELIEF VALVE, OPTIONAL VENT KIT AND ASME CONSTRUCTION. THE HEATER WILL BE FACTORY ASSEMBLED AND TESTED REQUIRING ONLY CONNECTIONS TO WATER AND ELECTRICAL. REFER TO THE DETAIL ON THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL OPTIONAL EQUIPMENT AND INFORMATION.

EXPANSION TANK (EXP-1) AMTROL, MODEL ST-12-C

CIRCULATING PUMP (CP-1) BELL & GOSSETT, MODEL NBF-10S/LW IN-LINE STAINLESS STEEL WITH UNION CONNECTIONS. PUMP MOTOR RATED AT 115 VOLTS, SINGLE PHASE, 1/16 HP. IN THE HOT WATER RETURN LINE TO THE HEATER, PROVIDE AN IMMERSION-TYPE AQUASTAT SET TO START THE PUMP WHEN THE WATER TEMPERATURE IN THE LINE DROPS TO 90 DEGREES F AND STOP THE PUMP WHEN THE TEMPERATURE REACHES 105 DEGREES F. COORDINATE PUMP SHUT-OFF SETTING WITH THE MIXING VALVE SETTING.

CIRCULATING PUMP (CP-2)

BELL & GOSSETT, MODEL NBF-10S/LW IN-LINE STAINLESS STEEL WITH UNION CONNECTIONS. PUMP MOTOR RATED AT 115 VOLTS, SINGLE PHASE, 1/16 HP. IN THE HOT WATER RETURN LINE TO THE HEATER, PROVIDE AN IMMERSION-TYPE AQUASTAT SET TO START THE PUMP WHEN THE WATER TEMPERATURE IN THE LINE DROPS TO 125 DEGREES F. AND STOP THE PUMP WHEN THE TEMPERATURE REACHES 130 DEGREES F. COORDINATE PUMP SHUT-OFF SETTING WITH THE MIXING VALVE SETTING.

THERMOSTATIC MIXING VALVE (MV-1)

POWERS, MODEL LFMM433 ROUGH BRONZE WITH ALL STANDARD EQUIPMENT INCLUDING PARAFFIN COPPER ACTUATOR, HEAVY DUTY COMBINATION STRAINER CHECKSTOPS AND TAMPER-RESISTANT TEMPERATURE ADJUSTMENT CONTROL. VERIFY TEMPERATURE SETTING WITH THE OWNER.

BACKFLOW PREVENTER (BFP-1) WATTS, MODEL 719QT2-S DOUBLE CHECK VALVE ASSEMBLY WITH STRAINER.

BACKFLOW PREVENTER (BFP-2)

WATTS, MODEL LF909-QT-S, 3/4", REDUCED PRESSURE ZONE WITH BRONZE STRAINER AND QUARTER-TURN BALL VALVES. PROVIDE WATTS 909AG-C AIR GAP. EXTEND DRAIN PIPING AS CLOSE AS POSSIBLE TO NEAREST FLOOR DRAIN WITHOUT CREATING A TRIPPING HAZARD.

SUBSTITUTIONS

ANY REQUEST FOR A SUBSTITUTION FOR THE PRODUCTS AND MANUFACTURERS SPECIFIED, OR LISTED AS ACCEPTABLE SUBSTITUTES MUST BE MADE IN STRICT ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS. SUBSTITUTIONS WILL NOT BE PERMITTED AFTER CONTRACTS ARE AWARDED. ALL SUBSTITUTIONS SHALL BE APPROVED BY OWNER.

THE FOLLOWING MANUFACTURERS ARE CONSIDERED ACCEPTABLE SUBSTITUTES FOR THOSE SPECIFIED, IF APPROVED BY ENGINEER AND OWNER:

PLUMBING FIXTURES: KOHLER, SLOAN ELECTRIC WATER COOLER: OASIS DRAINAGE SPECIALTIES : SMITH, JOSAM, WADE WATER HAMMER ARRESTERS: SMITH, PPP LAVATORY INSULATION KITS: PLUMBEREX, TRUEBRO WATER HEATERS: STATE, RHEEM EXTERIOR WALL HYDRANT: WADE MIXING VALVE: LEONARD, ACORN, HOLBY LAVATORY AND SINK FITTINGS: CHICAGO, T & S WATER CLOSET SEAT: KOHLER, ZURN, SLOAN FLUSH VALVES: SLOAN CIRCULATING PUMP: GRUNDFOS, TACO BACKFLOW PREVENTER: AMES FIRE & WATERWORKS, APOLLO VALVES, ZURN

	KITCHEN	
ΈM	EQUIPMENT DESCRIPTION	
-05	TABLE, WORK	
	-	
-09	3-COMPARTMENT SINK	
	-	
-10	DISPOSER, GARBAGE	

NOTES

PLUMBING CONNECTION LOCATIONS SHOWN FOR REFERENCE. COORDINATE ROUGH-IN LOCATIONS WITH KITCHEN EQUIPMENT INSTALLER AND PLUMBING ROUGH-IN KITCHEN DRAWINGS.

> ITEM NO. WC-1A WC-2 UR-1 LAV-1A EWC-1A ELECTRIC BF-1A MB-1 SK-1 WH-1

FD-1 FD-2

EQUIPMENT LIST AND CONNECTION SCHEDULE

	WATER		ROUGH-IN	WASTE	ROUGH-IN	COMMENTS				
	HOT	COLD	HEIGHT	WASTE	HEIGHT	COMMENTS				
	1/2"	1/2"	18" AFF	1-1/2"I.D. TO FS-1	-					
	1/2"	1/2"	18"" AFF	1-1/2"	24" AFF					
	1/2"	1/2"	18" AFF	1-1/2"I.D. TO FS-1	-					
	1/2"	1/2"	18" AFF	-	-					
	-	1/2"	18" AFF	2"	14" AFF					

ALL KITCHEN TAG NUMBERS MATCH KITCHEN CONSULTANT TAG NUMBERS.

PLUMBING FIXTURE CONNECTIONS

	MINIMUM PIPING CONNECTIONS							
FIXTORE	TRAP & TRAP ARM	WASTE	VENT	C.W.	H.W.			
WATER CLOSET (FLR MTD, MANUAL F.V ADA)	-	4"	2"	1 1/4"	-			
WATER CLOSET (FLR MTD, MANUAL F.V STD)	-	4"	2"	1 1/4"	1			
URINAL (WALL-HUNG, MANUAL F.V STD)	2"	2"	2"	3/4"	1			
LAVATORY (WALL HUNG - MANUAL - ADA)	1-1/4" x 1-1/2"	2"	NOTE 2	1/2"	1/2"			
ECTRIC WATER COOLER (WALL HUNG, DUAL - ADA)	1-1/4"	2"	1-1/2"	1/2"	-			
BOTTLE FILLING STATION	1-1/4"	1-1/2"	1-1/2"	1/2"	I			
MOP BASIN	3"	3"	2"	1/2"	1/2"			
THREE-COMPARTMENT SINK	1-1/2"	I.D.	1-1/2"	1/2"	1/2"			
WALL HYDRANT (NON-FREEZE)	-	-	-	3/4"	-			
FLOOR DRAIN - FINISHED AREAS	3"	3"	NOTE 1	-	-			
FLOOR DRAIN - MECH. ROOM	3"	3"	NOTE 1	-	-			

1. WET VENT OR COMBINATION DRAIN AND VENT. REFER TO FLOOR PLAN. 2. 1-1/2" UNLESS NOTED OTHERWISE.

3. CONNECTION SIZES ARE TO BE AS SHOWN ON SCHEDULE, EXCEPT AS

OTHERWISE NOTED OR SHOWN ON PLANS.

WATER HAMMER ARRESTER SCHEDULE

YMBOL	FIXTURE UNITS	SIOUX CHIEF MODEL NO.	SYMBOL	FIXTURE UNITS	SIOUX CHIEF MODEL NO.
А	1-11	652-A	D	61-113	655-D
В	12-32	653-B	E	114-154	656-E
С	33-60	654-C	F	155-330	657-F

Sheet No. P8.

No

Date

02/05/2024

Drawn: JH Appd.: NRZ

SCHEDULES

Scale: AS NOTED

Job No. 725002

Sheet Title:

В

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			EQUIPMEN	NT S (
ITEM NO.	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER
01	-	SPARE NUMBER		
02	-	SPARE NUMBER		
03	-	SPARE NUMBER		
04	1	TRASH CAN, SLIM	RUBBERMAID	FG354060GR
05	1	TABLE, WORK	EAGLE GROUP	T3078SEB-B
06	2	TABLE, WORK	EAGLE GROUP	T3054SEB-B
07	1	TABLE, WORK	EAGLE GROUP	T3090SEB-B
08	_	SPARE NUMBER		
09	1	3-COMPARTMENT SINK	SAPPHIRE STAINLESS	FN2054-3-2
10	1	DISPOSER, GARBAGE	SALVAJOR	200-CA-ARS
11	1	EXHAUST HOOD	CAPTIVE-AIRE	
12	1	RANGE, HEAVY DUTY, ELECTRIC	IMPERIAL RANGE	IR-8-E
13	1	FREEZER, REACH-IN, SHALLOW DEPTH	CONTINENTAL	1FSN
14	1	REFRIGERATOR, REACH-IN, SHALLOW DEPTH	CONTINENTAL	1RSN

⊖=	DR-DUPLEX RECEPTACLE REFER TO ELECTRICAL PLAN FOR VALUE
\ominus	SR-SIMPLEX RECEPTACLE REFER TO ELECTRICAL PLAN FOR VALUE
\bigcirc	DATA LINE
\bigcirc	SPR-SPECIAL PURPOSE RECEPTACLE REFER TO ELECTRICAL PLAN FOR VALUE
\bigcirc	JB-JUNCTION BOX

				E		E	-	СТ	R I	CAL SCHEDUL
CRIPTION	AMPS	ЖЖ	НР	VOLTS	PHASE	DIRECT	PLUG	NEMA	CONN, HT AFF (in.)	ELECTRICAL REMARKS
SER, GARBAGE	6.6		2.0	208	3	Х			24	
JST HOOD	8.0			120	1	Х			DFA	(2) CONNECTIONS REQUIRED; CONNECTION DOWN F
	10.0			120	1	X			DFA	CONNECTION DOWN FROM ABOVE; INTERCONNECT TO
	20.0			120	1	X			DFA	CONNECTION DOWN FROM ABOVE; INTERCONNECT TO
E, HEAVY DUTY, ELECTRIC	38.0	26.6		208	3	X			24	
ER, REACH-IN, SHALLOW DEPTH	7.6		1/2	120	1		Х	5-15P	48	
GERATOR, REACH-IN, SHALLOW DEPTH	5.9		1/4	120	1		Х	5-15P	48	
ENIENCE OUTLET	12.0			120	1		Х	5-20R	24	
ENIENCE OUTLET	12.0			120	1		Х	5-20R	24	

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		ΡL	U M B	IN G	S C H E		_														
ESCRIPTION	COLD WATER SIZE (IN.)	HOT WATER SIZE (IN.)	WATER CONN. HT. AFF (IN.)	INDIR. DRAIN SIZE (IN.) [B]	DIRECT DRAIN SIZE (IN.) [C]	DIRECT DRAIN HT. AFF (IN.)															
BLE, WORK	1/2	1/2	18	1 1/2	1 1/2	24															
COMPARTMENT SINK	1/2	1/2	18	1 1/2																	
SPOSER, GARBAGE	1/2		18		2	14															
OOR SINK – N.I.C. – BY OTHERS					4	*	3														
EA DRAIN – N.IC. – BY OTHERS					3	*	3														
		·					-														
FOR QUESTIONS, CALL THE Delaware / South NJ Mechanical REGION 19 PHONE: (609) 654 - 8368 EMAIL: reg19@captiveaire.com																					
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HOOD	HOOD INFORMATION – JOB#6336940																				
ноор		MODEL	MANUFACTURER	R LEN	ENGTH	MAX COOKING TEMP	TYPE	APPLIANCE D DUTY C	DESIG	N ТО	TOTAL EXH CFM			EXH	HAUST PLENUM RISER(S)				НООД	HOOD	<u>CONFIG</u>
NO	TAG								CFM/F	T EXH		WIDTH	LENG	HEIGHT	DIA	CFM	VEL	L SP	CONSTRUCTION	END TO END	ROW
1	Item #11	4824 ND-2	CAPTIVEAIRE		5' 0"	450 DEG	1	MEDIUM	185	9	925			4"	10"	925	1696	-0.622"	430 SS 100%	ALONE	ALONE
HOOD INFORMATION																					
	TAG		6) I	LIGHT(S)					- i					.BINET(S)							
NO		TYPE		QTY	HEIGHT	LENGTH	EFFICIEN	FICIENCY @ 7 MICRONS		Y		TYPE		WIF GUA	RE L	LOCATION		SIZE	TYPE	SIZE	
1	Item #11	CAPTRATE	SOLO FILTER	3	16"	16"	85% SE	E FILTER SPEC	2		RECESSED ROUND		N		RIGHT	12	"x48"x24"	TANK FS	2	ł.0	
HOOD OPTIONS																					
HOOD NO	TAG		OPTION																		
	Item #11	FIELD WRA	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.																		
1		BACKSPLAS	BACKSPLASH 80.00" HIGH X 72.00" LONG 430 SS VERTICAL.																		
		RIGHT QUA	RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.																		
		LEFT QUAR	LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.																		
		STRUCTURA	STRUCTURAL FRONT PANEL.																		

FIRE SYSTEM INFORMATION - JOB#6336940

SENSOR-CV.

		<u>JIDIDINI I</u>									
FIRE							DESIGN	INSTALLA	INSTALLATION		
	SYSTEM TAG TYPE		TYPE		SIZE	MAX FP	FP	SYSTEM	LOCATION C		
[1	ITEM #11.1 TANK FS			4.0	20	18	FIRE CABINET RIGHT	RIGHT, H		
Ç	GAS V	ALVE(S)									
	FIRE SYSTEN NO	I TAG	TYPE	SIZE	SUPPLIED BY						
	1	ITEM #11.1	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS						

24V TANK ELECTRIC WET CHEMICAL BASIC OPERATING INSTRUCTIONS

TANK ELECTRIC WET CHEMICAL PROTECTION FIRE SYSTEM

TANK ELECTRIC WET CHEMICAL (EWC) PROTECTION FIRE SYSTEMS CAN BE INSTALLED FOR HOOD FIRE PROTECTION, AS WELL AS POLLUTION CONTROL UNIT FIRE PROTECTION. IN THE EVENT OF A FIRE, OR ON MANUAL ACTUATION CORE EWC PROTECTION IS ACTIVATED.

IF THE INSTALLED FIRESTAT IN THE AIRSTREAM SENSES A TEMPERATURE HOTTER THEN ITS INTERNAL SET POINT OR IF THE MANUAL ACTUATION DEVICE IS PUSHED THE FIRE SYSTEM IS ACTIVATED. IN KITCHEN HOODS AN ELECTRIC SOLENDID IS ENERGIZED ALLOWING THE FLOW OF WET CHEMICAL AGENT TO THE HOOD DUCT, PLENUM, AND APPLIANCES THROUGH THE FIRE SYSTEM DISTRIBUTION PIPING. IN A POLLUTION CONTROL UNIT, THIS ELECTRONIC SIGNAL ENERGIZES A SOLENDID ALLOWING THE FLOW OF WET CHEMICAL AGENT INTO THE INDIVIDUALLY PIPED MODULES.

DNCE THE FIRE SYSTEM IS ACTIVATED, A 'FIRE SYSTEM ACTIVATED'LIGHT IS ILLUMINATED ON THE CORE CONTROL PANEL AND AN AUDIBLE ALARM SOUNDS. FOR KITCHEN HOOD PROTECTION ALL GAS AND ELECTRIC APPLIANCES UNDER THE HOOD MUST BE ELECTRICALLY INTERLOCKED TO SHUT OFF. THIS IS ACHIE∨ED VIA A GAS VALVE RELAY AND/OR A SHUNT TRIP BREAKER.

THE FIRE SYSTEM IS ELECTRICALLY OPERATED AND THUS REQUIRES A BATTERY BACKUP SYSTEM. IN THE EVENT OF A LOSS OF ELECTRICAL POWER, ALL GAS AND ELECTRIC APPLIANCES UNDER THE HOOD MUST BE ELECTRICALLY INTERLOCKED TO SHUT OFF. THIS IS ACHIEVED VIA A GAS VALVE RELAY AND/OR A SHUNT TRIP BREAKER. THE BATTERY BACKUP WILL AUTOMATICALLY ENERGIZE UPON A LOSS OF POWER. THE BATTERY BACKUP WILL MONITOR THE FIRE SYSTEM CIRCUIT FOR ONE DAY AND BE ABLE TO OPERATE THE FIRE SYSTEM CIRCUIT FOR A MINIMUM OF 30 MINUTES. DNCE POWER IS RESTORED, THE BATTERY WILL AUTOMATICALLY RECHARGE.

TANK PROTECTION RESET OVERVIEW

THERE ARE MULTIPLE ACTIONS REQUIRED TO RESET THE FIRE SYSTEM. FIRST, THE FIRESTAT MUST BE CODLED TO BELOW ITS INTERNAL SET POINT AND THE MANUAL ACTUATION DEVICE MUST BE RESET BY TWISTING THE BUTTON IN A CLOCKWISE DIRECTION. DNCE BOTH OF THESE DEVICES HAVE BEEN RESET, THE GAS CARTRIDGE MUST BE REMOVED AND REPLACED. DNCE THE GAS CARTRIDGE HAS BEEN REINSTALLED THE WET CHEMICAL ACTUATOR CAN BE RESET FOLLOWING THE WET CHEMICAL FIRE SUPPRESSION SYSTEM MANUFACTURER'S GUIDELINES. NOTE: THE FIRESTAT MUST BE COOL AND THE MANUAL ACTUATION DEVICE MUST BE RESET IN ORDER TO RE-ARM THE SYSTEM.

THE FIRE SYSTEM MUST BE RE-COMMISSIONED PER THE MANUFACTURES RECOMMENDATIONS AND GUIDELINES BY AN AUTHORIZED FIRE SYSTEM DISTRIBUTOR AND/OR AUTHORIZED SERVICE AGENT.

AFTER A FIRE, FULL INSPECTION BY A CERTIFIED PROFESSIONAL MUST BE CONDUCTED PRIOR TO RESTARTING THE FIRE SYSTEM.

TANK APPLICATION SPECIFIC DETAILS

DUCT FIRESTATS HODDS RATED FOR 600 DEGREE APPLIANCES REQUIRE ADDITIONAL FIRESTATS TO BE INSTALLED IF THERE ARE ANY HORIZONTAL SECTIONS OF DUCT OVER 25 FT.

GUARANTEE DF THIS PRODUCT.

D

ELECTRICAL MODEL # SC-211110MA

SWITCHES QUANTITY 1 LIGHT 1 FAN

FIRE SYSTEM PIPING	HOOI HANGII WEIGH
YES	486 LBS





IMPORTANT: ANY DEVIATION FROM ANY OF THE MANUFACTURER'S RECOMMENDATIONS IN THIS DOCUMENT OR THE OPERATION AND INSTALLATION MANUAL MUST BE APPROVED BY THE OWNER OF THIS EQUIPMENT AND VOIDS THE WARRANTY AND PERFORMANCE



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.







NOT FOR CONSTRUCTION

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REBUIL

Sheet No.

FS-2.0



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Duct mounted thermostats for use in automatically activating fans whenever cooking appliances are being used.

Switch closes on temperature rise. One thermostat and temperature controller per exhaust riser.



TYPICAL CONTROL PANEL (CABINET MOUNT)





TOUCH SCREEN INTERFACE

3

NOT FOR CONSTRUCTION

ALARM INDICATING LCD SCREEN. BUTTON FUNCTIONS VARY BY MODEL TYPE.

Engineering, REVISIONS DESCRIPTION DATE: Inc. CONSULTING ENGINEERS: Project Management Facilities Engineering Structural Design & Analysis Mechanical/Electrical/Plumbing Forensic Engineering One East Broad Street Suite 310 Bethlehem, PA 18018 610.865.3000 · fax 610.861.0181 www.dhuy.com YGROUND ADELPHIA 22ND STREETS \checkmark PL IT D PHIL & N. NA REBUII W. LIPPIN G. P NT 4 Δ VINCE Philadelphia 19123 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING 4 Δ Kitchen ELPHIA, PHILAD anati Δ **DATE:** 11/15/2023 DWG.#: 6336940 DRAWN BY: JRE SCALE: 3/4" = 1'-0"02/05/2024 Date MASTER DRAWING Scale: AS INDICATED Job No. 604.2 Drawn: NB, KN Appd.: CS Sheet Title: FOODSERVICE SHEET NO. EXHAUST HOOD DETAILS 2 Sheet No.

FS-2.1

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