

# CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

MAYOR - MICHAEL A. NUTTER

MANAGING DIRECTOR - RICHARD NEGRIN, ESQ

COMMISSIONER OF PUBLIC PROPERTY - BRIDGET COLLINS-GREENWALD

COMMISSIONER OF PARKS & RECREATION — MICHAEL DIBERARDINIS

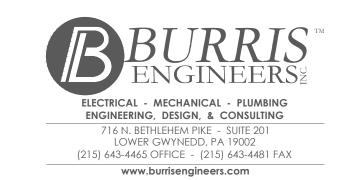
FIRST DEPUTY COMMISSIONER, PARKS & FACILITIES - MARK A. FOCHT, FASLA

# MARTIN LUTHER KING OLDER ADULT CENTER 2100 CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

PROJECT NO. 20-11-4199-99

DESIGN DEVELOPMENT SUBMISSION
JULY 2, 2015

**SMPARCHITECTS** 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430



KS ENGINEERS, P.C. Engineers • Surveyors • Construction Managers

494 Broad Street, 4th Floor, Newark, N.J. 07102
Phone: (973)623-2999, Fax: (973)623-2988

VJ ASSOCIATES OF NEW JERSEY, INC.

COST CONSULTANT

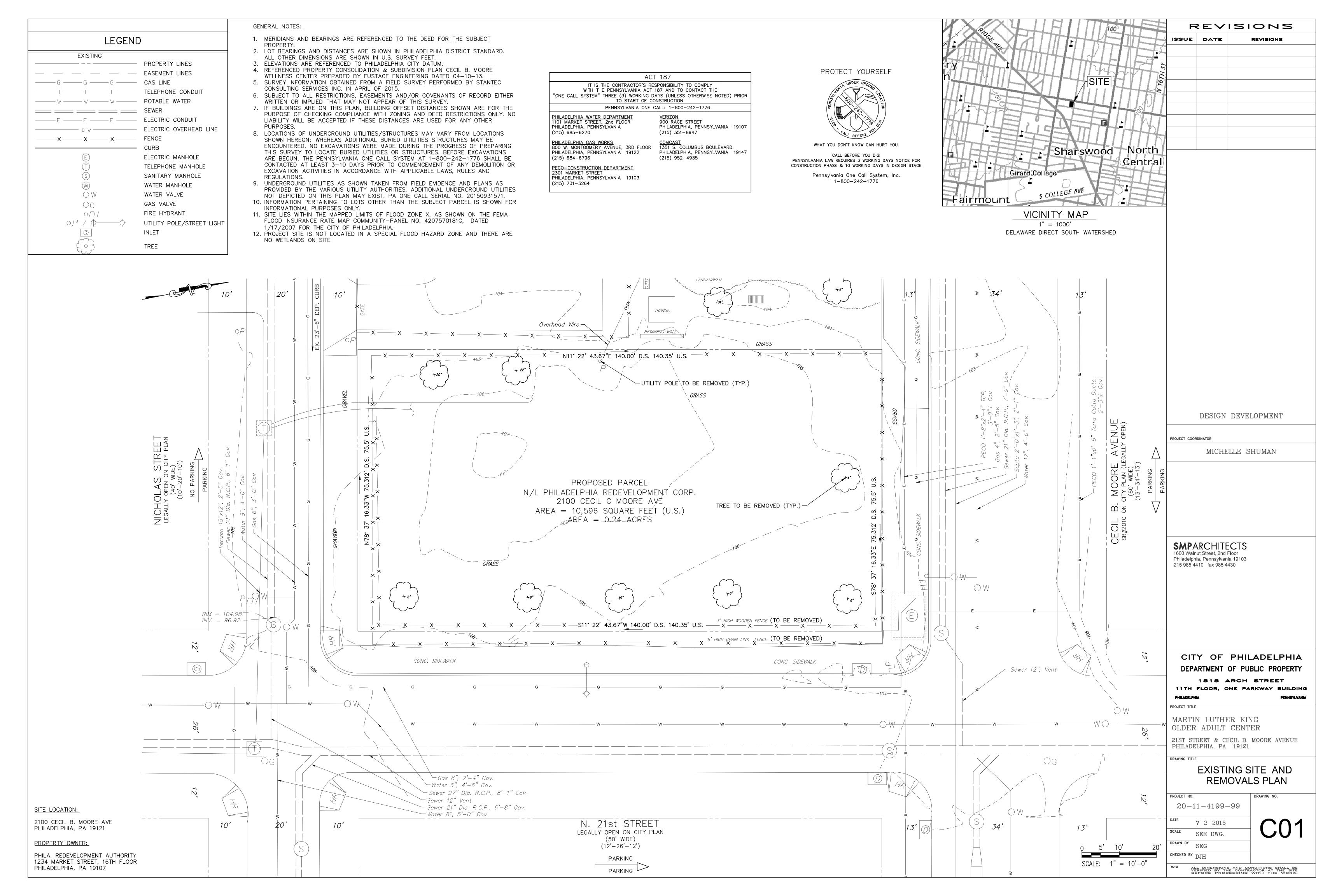
PUBLIC LEDGER BUILDING

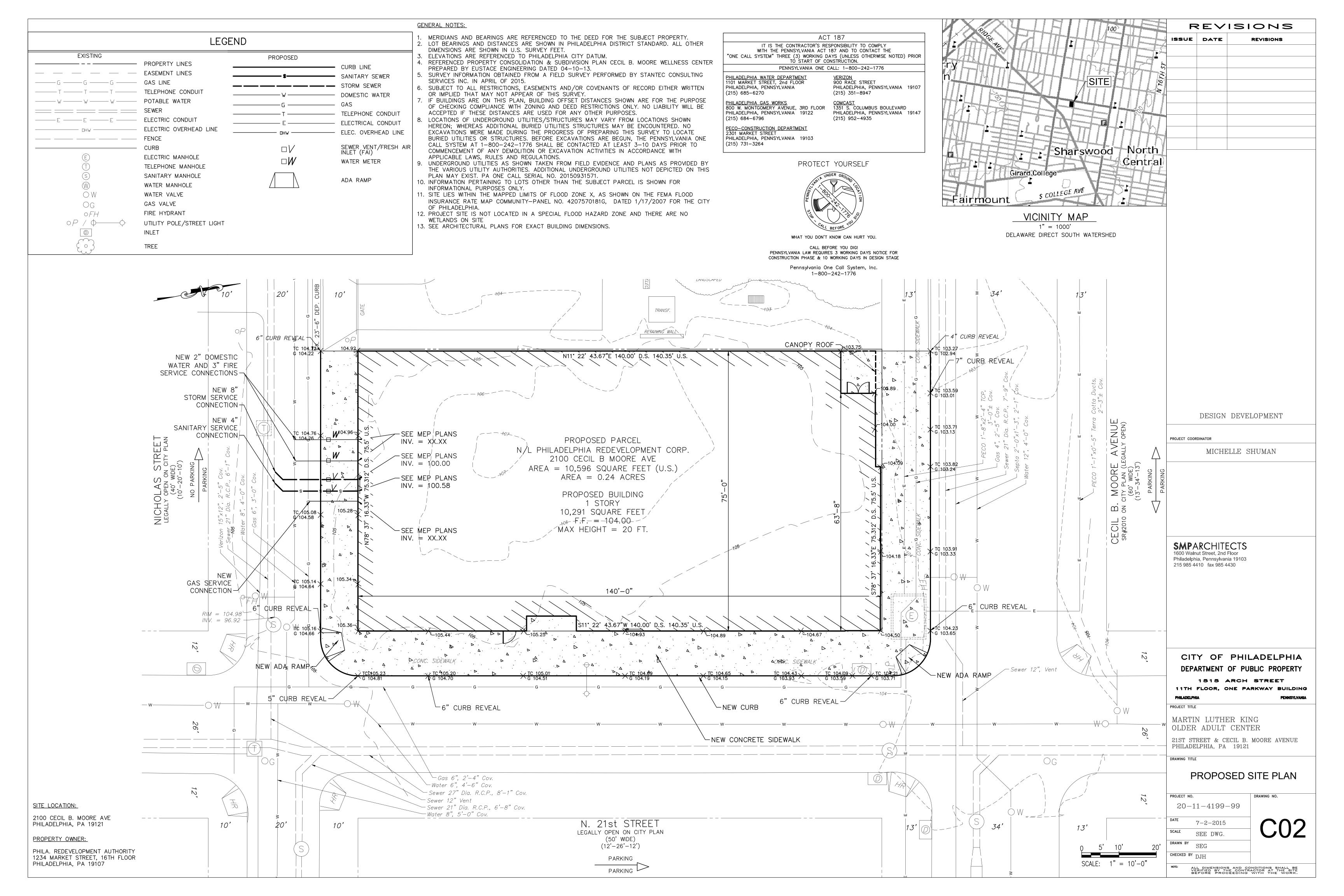
150 S. INDEPENDANCE MALL WEST, SUITE 1200

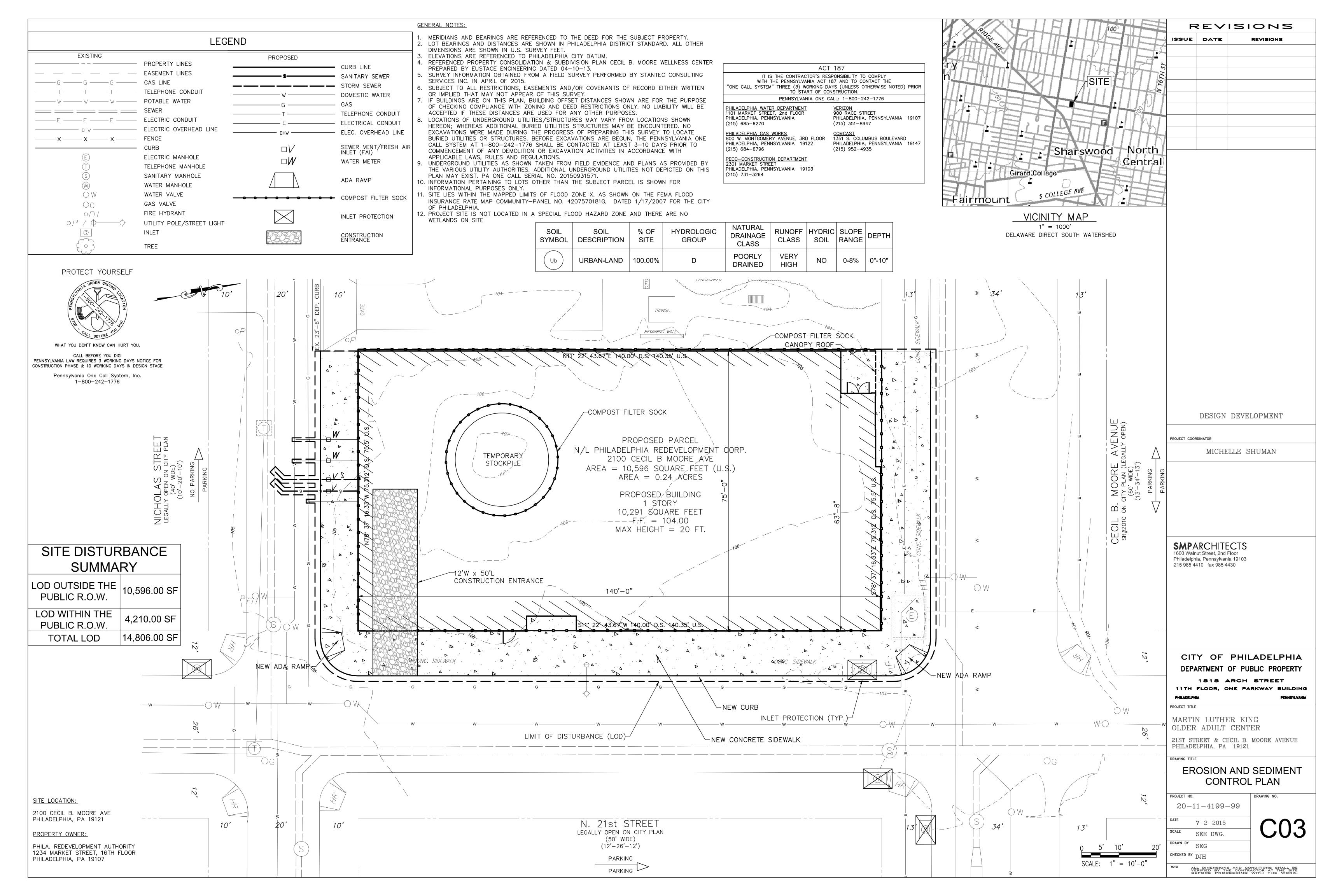
PHILADELPHIA, PA 19106

215 268 3993 fax 215 376 6776

ABBREVIATIONS	DRAWING SYMBOLS	DRAWING LIST	LOCATION PLAN	PROJECT APPROVED
A ABV ABOVE G GA GAUGE R R RISER AFF ABOVE FINISHED FLOOR GALV GALVANIZED RA RETURN AIR ADJ ADJUSTABLE GL GLAZED, GLAZING, GLASS RAD RADIUS AL(ALUM) ALUMINUM GWB GYPSUM WALLBOARD RB RUBBER BASE	DRAWING ID NUMBER  DRAWING ID NUMBER  DETAIL  DRAWING ID NUMBER  DETAIL  LIMIT OF ENLARGEMENT	CS-1 COVER SHEET  S1.0 GENERAL NOTES  CIVIL  S2.0 FOUNDATION PLAN	Croskey's Starts N 23rd S	COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY
ANOD ANODIZED RCP REFLECTED CEILING PLAN APPROX APPROXIMATE H HC HANDICAPPED REF REFER TO, REFERENCE ARCH ARCHITECTURAL HDPE HIGH DENSITY POLYETHYLENE REQ'D REQUIRED HM HOLLOW METAL REV REVISION, REVISE(D)	SHEET ID NUMBER  DIRECTION OF SECTION  SHEET ID NUMBER	C01 EXISTING SITE AND REMOVALS PLAN S3.0 LOW ROOF FRAMING PLAN C02 PROPOSED SITE PLAN S4.0 HIGH ROOF FRAMING PLAN C03 EROSION AND SEDIMENT CONTROL PLAN S5.0 TYPICAL DETAILS C04 EROSION AND SEDIMENT CONTROL S6.0 TYPICAL DETAILS	M Son St North North North St North	DEPUTY COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY
B BCAB BASE CABINET HOR HORIZONTAL RSF RESILIENT FLOORING BLW BELOW HR HOUR RM ROOM	BUILDING SECTION DRAWING ID NUMBER	NOTES AND DETAILS  C05 CONSTRUCTION DETAILS <u>HVAC</u>	W Montgomery Ave DE ST Day N.	PROJECT DIRECTOR/DPP-CAPITAL PROJECTS DIVISION
BLDG BUILDING HRWD HARDWOOD R.O. ROUGH OPENING BLKG BLOCKING HT HEIGHT RWC RAIN WATER CONDUCTOR BM BEAM HVAC HEATING/VENTILATION / AIR CONDITIONING	SHEET ID NUMBER  LIMIT OF REVISION	M1.1 HVAC FLOOR PLAN ARCHITECTURAL M2.1 HVAC SCHEDULES & DETAILS	Cecil B M. Clifford St. Clifford St. Cecil B M. Montgomery Ave.	ART COMMISSION
BOT BOTTOM  B.O. BOTTOM OF I IG INSULATED GLAZING SBC SINK BASE CABINET  BTW BETWEEN INCL INCLUDING SBO SUPPLIED BY OTHERS  INFO INFORMATION SFI SPRAY FOAM INSULATION	DIRECTION OF SECTION  WALL/DETAIL SECTION  A2.1 SHEET ID NUMBER  REVISION  REVISION  REVISION	A0.1 CODE INFORMATION  A2.0 FLOOR PLAN  A2.1 ROOF PLAN  A3.0 EXTERIOR ELEVATIONS  PLUMBING  P0.0 COVER SHEET  P1.1 SANITARY/VENT PIPING FLOOR PLAN	Nicholas St Nicholas St Sceed B Moore Ave Cecil B Moore Ave Cecil B Moore Ave	HISTORICAL COMMISSION
C CERT CERTIFIED INS INULATE(D),(ION) SIM SIMILAR CB CEMENTBOARD INT INTERIOR SL SLOPE(D) CJ CONTROL JOINT SLD SEALED CLG CEILING J JT JOINT SLR SEALER	DETAIL ELEVATION  DETAIL ELEVATION  DETAIL ELEVATION  DETAIL ELEVATION  DETAIL ELEVATION  DETAIL ELEVATION	A4.0 ENLARGED PLANS AND ELEVATIONS P1.2 WATER/GAS PIPING FLOOR PLANS A4.1 INTERIOR ELEVATIONS A4.2 INTERIOR ELEVATIONS FIRE PROTECTION A4.3 INTERIOR ELEVATIONS FP0.0 COVER SHEET	W Oxford St W Oxford St W Oxford St Turner St	
CLR CLEAR/ CLEARNCE SOG SLAB ON GRADE CMU CONCRETE MASONRY UNIT L LAM LAMINATED SSF SOLID SURFACE	A2.1 SHEET ID NUMBER	A5.0 BUILDING SECTIONS FP1.1 FLOOR PLANS A6.0 REFLECTED CEILING PLAN	## ## Bolton St	CEN C
COL COLUMN LF LINEAR FEET SSTL STAINLESS STEEL CONC CONCRETE LLV LONG LEG VERTICAL STN STAIN(ED) CONT CONTINUOUS LTL LINTEL STL STEEL COR CORRUGATED LOUV LOUVERS STRUC STRUCTURAL	ROOM ROOM ROOM NAME IDENTIFICATION ROOM NUMBER	A8.0 WALL SECTIONS  A9.0 PARTITION AND FINISHES SCHEDULES  A9.1 DOOR SCHEDULE, TYPES, AND DETAILS  A9.2 WINDOW TYPES AND DETAILS  E1.1 POWER & SYSTEMS PLAN  E1.2 LIGHTING & FIRE ALARM FLOOR PLAN  E2.1 SINGLE LINE DIAGRAM		SEALS
CT CERAMIC TILE  M MAS MASONRY  D DIA DIAMETER MAS DIM MASONRY DIMENSION T TF TRANSPARENT FINISH DIM DIMENSION MAX MAXIMUM T.O. TOP OF	INTERIOR DOOR NUMBER  OUT OF THE PROPERTY OF T	EZ.1 SINGLE LINE DIAGRAWI	Soll St Master St Harlan St St Harlan St St Harlan St St W Seybert St N	
DN DOWN MDF MEDIUM DENSITY FIBERBOARD THK THICK(NESS)  DR DOOR MECH MECHANIC(AL) TLT TOILET  DTL DETAIL MFR MANUFACTURER TPTN TOILET PARTITION  DWG(S) DRAWING/DRAWINGS MIN MINIMUM TYP TYPICAL	INTERIOR PARTITION TYPE  PARTITION NUMBER  3	MATERIAL SYMBOLS	W Seybert St  W Thompson St  N College Ave	
DWG(S) DRAWING/DRAWINGS MIN MINIMUM TYP TYPICAL  M.O. MASONRY OPENING  E EA EACH MR MOISTURE RESISTANT U UON UNLESS OTHERWISE NOTED  EL ELEVATION MTD MOUNTED UNO UNLESS NOTED OTHERWISE	ROOM ELEVATIONS 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Google W. Seybert S	
ELEC ELECTRICAL MTL METAL  EMER EMERGENCY MULL MULLION V VAR VARIES/VARIOUS  EQ EQUAL VERT VERTICAL	SHEET ID NUMBER  3 DIRECTION OF ROOM ELEVATION	EARTH GRAVEL CONCRETE GROUT, SAND, GWB	SITE	CITY OF PHILADELPHIA
EQPM EQUIPMENT N N/A NOT APPLICABLE VEST VESTIBULE ES EXPOSED STRUCTURE NIC NOT IN CONTRACT VIF VERIFY IN FIELD ETR EXISTING TO REMAIN NOM NOMINAL	DATUM ELEVATION (PLAN) EL. 58.00	CONCRETE MASONRY BRICK CUT MEDIUM DENSITY UNITS STONE FIBERBOARD	OTTE	DEPARTMENT OF PUBLIC PROPERTY  1515 ARCH STREET
EWC ELECTRIC WATER COOLER NTS NOT TO SCALE W W/ WITH  EXG EXISTING WITHOUT  EXP EXPOSED/EXPANSION O OC ON CENTER WC WATER CLOSET	DATUM ELEVATION (SECTION/ELEVATION)  FINISH FLOOR EL. +/- 58.05			11TH FLOOR, ONE PARKWAY BUILDING  PHILADELPHIA  PENNSYLVANIA
EXT EXTERIOR OH OPPOSITE HAND WCAB WALL CABINET OPP OPPOSITE WD WOOD F FA FIRE ALARM OPG OPENING WDWK WOODWORK	BREAKLINE ————	FINISH ROUGH BLOCKING PLYWOOD (LARGE SCALE)		PROJECT NO. DRAWING NO. 20-11-4199-99
FD FLOOR DRAIN OTLN OUTLINE WF WIDE FLANGE FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET P PLAM PLASTIC LAMINATE				DATE 7-2-2015
FFE FINISHED FLOOR ELEVATION PNL PANEL FIN FINISH(ED) PNT PAINT(ED) FLG FLASHING PROJ PROJECTION	REFERENCE GRID  A  P	BATT/LOOSE FILL RIGID INSULATION RIGID INSULATION GLASS (SMALL SCALE)		AS NOTED  DRAWN BY AS NOTED
FLR FLOOR(ING) P.T. PRESSURE TREATED FND FOUNDATION PT POINT F.O. FACE OF PTN PARTITION	Q Q	SOLID SURFACE		CHECKED BY AS NOTED
FT FOOT (FEET) PV PIPE VENT FTG FOOTING PWD PLYWOOD		STEEL STEEL ALUMINUM COUNTERTOP (LARGE SCALE) (SMALL SCALE) (LARGE SCALE)		NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.







#### EROSION AND SEDIMENT CONTROL NOTES

- 1. CONTACT THE CITY OF PHILADELPHIA AND SOUTHEAST REGIONAL OFFICE OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING AT LEAST 5 DAYS PRIOR TO THE START OF EARTH
- 2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE
- 3. ALL SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. SEE THE SEQUENCE OF CONSTRUCTION. EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMP'S.

CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS.

- 4. PRIOR TO ANY SITE GRADING, SOIL EROSION FACILITIES SHALL BE INSTALLED TO ALLOW THE MAJORITY OF STORM FLOW TO BE TRANSPORTED TO THE PROPOSED OUTLET WITHOUT ERODING THE SITE. SEE SEQUENCE OF CONSTRUCTION.
- 5. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE APPROPRIATE CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.
- 6. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE PHILADELPHIA WATER DEPARTMENT.
- 7. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- 8. ALL VEHICLES AND EQUIPMENT MUST ENTER OR EXIT THROUGH CONSTRUCTION
- 9. UNTIL THE SITE ACHIEVES FINAL STABILIZATION, THE PERMITTEE AND COPERMITTEE SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED. OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES AND MAINTAIN AND MAKE AVAILABLE TO THE PHILADELPHIA WATER DEPARTMENT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGARDING, RESEEDING, AND RESTABILIZATION SHALL BE PERFORMED
- 10. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE
- 11. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED. THE DISTURBED AREAS WILL BE MULCHED WITH UNROTTED STRAW OR SALT OR SALT HAY AT A MINIMUM RATE OF 1,200 LBS. PER 1,000 SQUARE YARDS OR AN EQUIVALENT MEASURE ACCORDING TO THE STATE STANDARDS. SEE SITE STABILIZATION METHODS BELOW.
- 12. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN 10 DAYS AFTER FINAL GRADING. MULCH TO BE USED AT A RATE OF 1,200 LBS. PER 1,000 SQUARE YARDS FOR PROTECTION UNTIL SEEDING IS ESTABLISHED. SEE SEEDING MIXTURE
- 13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PENNSYLVANIA EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL.
- 14. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
- 15. IMMEDIATELY AFTER INITIAL SITE DISTURBANCE A CRUSHED STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. THIS STABILIZED CONSTRUCTION ENTRY WILL BE OF SUFFICIENT SIZE TO REDUCE OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION TRAFFIC AND WILL BE MAINTAINED IN GOOD ORDER UNTIL ALL ROADWAYS ARE STABILIZED. MINIMUM DIMENSIONS SHALL BE MINIMUM 50' LONG X 20' WIDE X 8" THICK, UNDERLAIN WITH FILTER FABRIC, AND SHALL BE COMPOSED OF AASHTO NO. 1 STONE.
- 16. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OF ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION, I.E.: STEEP SLOPES GREATER THAN 3H:1V, EMBANKMENTS. SWALES, AND CHANNELS WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT. SEE STABILIZATION MATERIALS BELOW.
- 17. ALL INLETS NOT TO BE USED AS SEDIMENT TRAPS SHALL BE TEMPORARILY PROTECTED. BY FILTERS PLACED IMMEDIATELY AFTER THEIR CONSTRUCTION. FILTERS SHALL REMAIN IN PLACE UNTIL THE SITE IS PERMANENTLY STABILIZED.
- 18. STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST
- BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED. 19. ALL DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO EITHER TEMPORARY

OR PERMANENT SEEDING.

CONSTRUCTION SEQUENCE:

1-800-242-1776 FOR BURIED UTILITY LOCATIONS.

THROUGHOUT THE DURATION OF THE CONSTRUCTION.

WITH APPLICABLE CITY, STATE AND FEDERAL REGULATIONS.

9. BEGIN CONSTRUCTION OF BUILDING FOUNDATION AND WALLS.

13. SWEEP PAVED AREAS TO PREVENT TRACKING OF SOIL OFF-SITE.

14. REMOVE SOIL EROSION MEASURES AFTER SITE HAS BEEN STABILIZED.

11. FINALIZE CONSTRUCTION OF BUILDING.

12. TOPSOIL AND SEED GRASSED AREAS.

- 20. THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL
- 21. ALL PERISHABLE AND OBJECTIONABLE MATERIAL INCLUDING BUT NOT LIMITED TO BOARDS. TREES, BRUSH, SHRUBS, LOGS, STUMPS, ROOTS, AND OTHER ORGANIC MATTER SHALL BE REMOVED FROM THE CONSTRUCTION SITE.
- 22. A SUBBASE COURSE SHALL BE CONSTRUCTED IMMEDIATELY FOLLOWING SITE GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS,

1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL

IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT

OF PHILADELPHIA EROSION AND SEDIMENT CONTROL OFFICE TO AN ON-SITE MEETING.

INSTALLED AROUND THE PERIMETER OF THE SITE AS SHOWN ON THE PLAN.

10. CONSTRUCT FULL DEPTH CURBS AND SIDEWALKS INCLUDING HANDICAP RAMPS.

INVITE ALL CONTRACTORS INVOLVED IN EARTH MOVING ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE

CITY OFFICIALS, THE EROSION AND SEDIMENT CONTROL PREPARER, AND REPRESENTATIVE OF THE CITY

2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED

3. PRIOR TO ANY EARTH DISTURBANCE, THE INSPECTIONS COORDINATOR OF PWD (OFFICE 215-685-6387) MUST BE CALLED TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH PWD'S EROSION AND SEDIMENT

4. INSTALL COMPOST FILTER SOCK DOWNHILL FROM ALL EARTH MOVING ACTIVITIES. ALTHOUGH OFF SITE

6. INSTALL CONSTRUCTION ENTRANCE AS SHOWN AND IN ACCORDANCE WITH THE CONSTRUCTION ENTRANCE

7. CLEAR AND GRUB SITE, DEMOLISH EXISTING PAVING, CURBING, TREES, FENCE, OVERHEAD UTILITIES AND

8. INSTALL PROPOSED UNDERGROUND UTILITIES WHICH INCLUDE BUT NOT LIMITED TO WATER, SANITARY

SEWER, GAS, ELECTRIC AND STORM WATER COLLECTION. STUB OUT SERVICE LINES FOR PROPOSED

SIDEWALK. DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISCARDED IN ACCORDANCE

AREAS ARE PAVED, COMPOST FILTER SOCK OR OTHER EROSION CONTROL PRACTICES SHALL BE

5. INSTALL INLET PROTECTION AS SHOWN ON THE PLAN. EXISTING INLETS SHALL BE PROTECTED

#### AND PARKING AREAS.

- 23. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION WHEN SEDIMENT HAS ACCUMULATED TO THE CLEAN OUT ELEVATION.
- 24. INLET PROTECTION MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.
- 25. FILTER FABRIC FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST EXTEND AT LEAST 10 FEET UPSLOPE AT 45 DEGREES TO MAIN FENCE ALIGNMENT.
- 26. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
- 27. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEE ROCK FILTER OUTLET DETAIL ON DRAWING
- 28. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM EVENT.
- 29. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR
- 30. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED MUST BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.
- 31. TOPSOIL SHOULD BE FREE OF DEBRIS, SUCH AS WEEDS AND STONES, AND CONTAINS NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
- 32. ALL FILL MATERIALS ARE TO BE FREE OF BRUSH, RUBBISH, TIMBER, LOGS, VEGETATIVE MATTER, AND SLUMPS IN AMOUNTS THAT WILL BE DETRIMENTAL TO CONSTRUCTING STABLE FILLS. ALL FILLS SHALL BE COMPACTED FOR THEIR INTENDED PURPOSES AND AS REQUIRED TO REDUCE SLIPPING EROSION, OR EXCESS SATURATION.
- 33. CONTRACTOR IS RESPONSIBLE THAT ALL FILL MATERIAL MEETS ALL STATE, LOCAL, AND FEDERAL ENVIRONMENTAL REQUIREMENTS.
- 34. CONTRACTOR TO MAINTAIN DUST CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION FOR ALL DISTURBED AREAS. THE CONTRACTOR WILL PROVIDE A WATER TRUCK ON-SITE AT ALL TIMES TO SPRAY THE DISTURBED AREAS AS NECESSARY.
- 35. DIVERSIONS, CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS, AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.
- 36. ALL STORM DRAINAGE OUTLETS TO BE STABILIZED AS REQUIRED BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL
- 37. TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES TO REMAIN IN PLACE UNTIL A UNIFORM EROSION RESISTANT PERENNIAL VEGETATIVE COVER IS ESTABLISHED OVER 75% OF EXPOSED AREAS.
- 38. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROL BMPS MUST BE STABILIZED IMMEDIATELY.

#### SITE STABILIZATION METHODS (TEMPORARY & PERMANENT STABILIZATION)

- 1. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.
- 2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES GREATER THAN 3:1.
- 3. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- 1. THE FOLLOWING SURFACES OF THE SITE SHALL BE TEMPORARILY SEEDED AND MULCHED: A. THE SURFACE OF TOPSOIL STOCKPILES. B. THE SURFACE OF EXPOSED EARTH AREAS THAT WILL BE EXPOSED WITHOUT CONSTRUCTION ACTIVITY THEREON.
- 2. SEEDING SHALL OCCUR IMMEDIATELY AFTER ESTABLISHMENT OF THE TOPSOIL STOCKPILES OR ROUGH GRADED AREAS. THE FOLLOWING SHALL BE PLANTED: A. 40 LBS./ACRE ANNUAL RYE GRASS - COMMON, 100% P.L.S.
- 3. PREPARE AREAS TO BE SEEDED AS FOLLOWS: A. REMOVE ALL DEBRIS, INCLUDING LARGE STONES. APPLY LIME AT A RATE OF 3 TONS PER ACRE AND FERTILIZER AT THE RATE OF 50-50-50 PER ACRE AND WORK INTO B. SOW SEED AT THE INDICATED RATE. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST. RAKE SEEDED
- 4. PLACE CLEAN DRY STRAW OR HAY MULCH WITHIN 48 HOURS AFTER SEEDING. PLACE AT THE RATE OF 3 TONS PER ACRE.

AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.

5. SEEDING DATES SHALL BE BETWEEN MARCH 1 AND NOVEMBER 15.

#### TEMPORARY MULCHING

- 1. MULCH PROPOSED LANDSCAPE AREAS OR TOPSOIL STOCKPILES IF EARTHWORK IS COMPLETED OUTSIDE OF THE RECOMMENDED PLANTING SEASONS FOR TEMPORARY SEEDING OR DUE TO UNFAVORABLE WEATHER CONDITIONS.
- 2. MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING THE ESTABLISHMENT OF THE TOPSOIL STOCKPILE OR ROUGH GRADING
- 3. MULCH WITH SUITABLE FIBROUS GROUND, SHREDDED AGED HARDWOOD, PINE WOOD BARK OR STRAW, UNIFORMLY AND CONTINUOUSLY TO A LOOSE DEPTH OF 3 INCHES MINIMUM. ANCHOR AS REQUIRED.

TEMPORARY STOCKPILE

#### 4. PROPERLY MAINTAIN MULCHED AREAS UNTIL PERMANENT STABILIZATION MEASURES ARE COMPLETE. REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED AS INITIAL OR MODIFIED RATES AS NECESSARY. IF A SLOPE FAILURE OCCURS WHICH REQUIRES REDRESSING, EXCAVATION, OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE MULCH

#### PERMANENT SEEDING

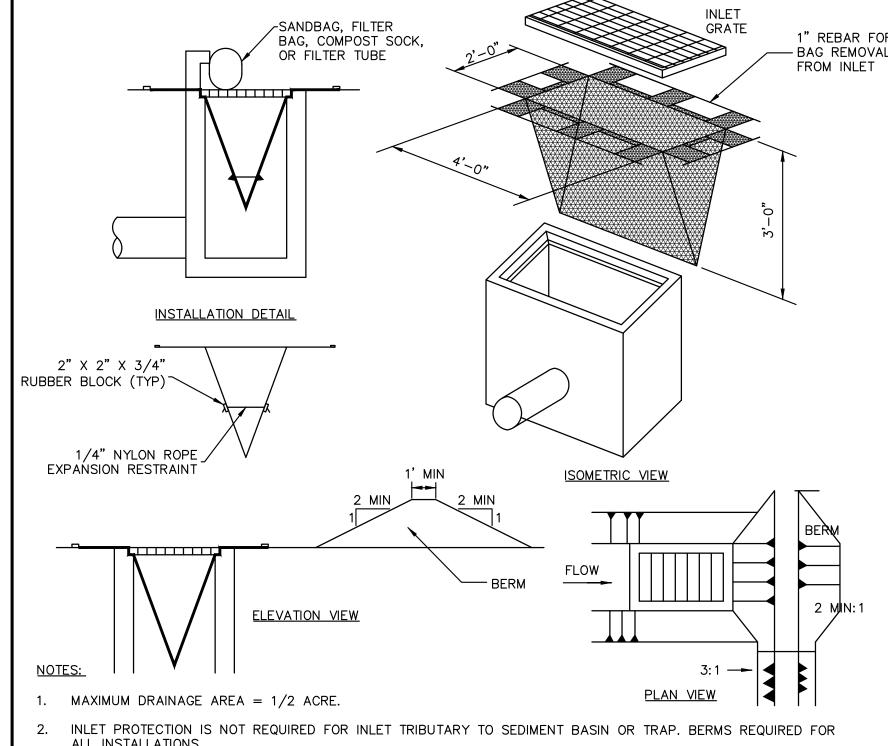
- PERMANENT SEEDING SHALL OCCUR IMMEDIATELY AFTER THE FINAL GRADING IS COMPLETED. THE FOLLOWING SEED SHALL BE PLACED UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DIRECTED IN THE FIELD. THE FOLLOWING SEED MIX SHALL BE USED: A. 40% PENNLAWN FINE FESCUE
- B. 3% RED TOP C. 20% CHAMPION PERENNIAL RYE GRASS QUANTITIES ARE OF PURE LIVE SEED (P.L.S.) SPREAD AT A RATE OF 63 LBS. PER ACRE.
- 2. REMOVE ALL DEBRIS, INCLUDING LARGE STONES. TILL SOIL TO A DEPTH OF FOUR INCHES TO SIX INCHES. APPLY LIME AT A RATE OF 4 TONS PER ACRE. APPLY COMMERCIAL 10-20-20 FERTILIZER AT A RATE OF 930 LBS. PER ACRE. WORK FERTILIZER INTO TOP INCH OF SOIL.
- 3. SEED ONLY AT THE FOLLOWING TIMES: A. SPRING: MARCH 1 TO APRIL 30
- B. LATE SUMMER/EARLY FALL: AUGUST 15 TO NOVEMBER 15
- 4. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST LOT. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- . MULCH SEEDED AREAS WITH STRAW OR HAY AT THE RATE OF 3 TONS PER ACRE. ANCHOR MULCH. COMPLY WITH THE REQUIREMENTS OF SECTION 805 - MULCHING, PENNDOT PUBLICATION 408. ANCHOR MULCH AS SPECIFIED.
- 6. MULCHING SHALL BE DONE AT THE MINIMUM RATE OF 3 TONS PER ACRE WITH SALT HAY, HAY OR STRAW MULCHES. PLACE MULCH IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. PROPERLY MAINTAIN MULCHED AREAS UNTIL THE ENTIRE PROJECT HAS BEEN COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES AT INITIAL RATES
- 7. LIQUID MULCH BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCHES. A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREAS SHOULD BE UNIFORM IN APPEARANCE.
- B. USE ONE OF THE FOLLOWING: EMULSIFIED ASPHALT. CLASS E-1 OR E-6. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. CUTBACK ASPHALT. CLASS RC-250. APPLY 31 GALLONS PER 1,000 SQUARE YARDS ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. NON-ASPHALTIC EMULSION -NATURAL VEGETABLE GUM BLENDED WITH GELLING AND HARDENING AGENTS (TERRA TACK, AR) AS MANUFACTURED BY GRASS GROWERS COMPANY OR EQUAL. APPLY 25 LBS. PER 1,000 SQUARE YARDS.

- 1. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION STABILIZATION, AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN.
- 2. THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL
- 3. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S 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 DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS TO THOSE INSTALLED WILL BE
- 4. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOOD PLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
- 5. SOIL SEDIMENT REMOVED FROM ANY TEMPORARY CONTROL MEASURE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION STAGE. SILT FENCE INSTALLED ON THE PROJECT SITE SHALL BE MAINTAINED AS FOLLOWS: A. THE FENCE CONDITION WILL BE INSPECTED ONCE A WEEK OR AFTER EVERY STORM EVENT, WHICHEVER COMES FIRST. ANY NECESSARY REPAIRS WILL BE MADE
- B. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE FUNCTIONAL. DEPOSITS WILL BE REMOVED WHERE ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF THE FENCE. C. UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPLACED IMMEDIATELY
- WITH ROCK FILTER OUTLETS. D. ANY MANUFACTURER'S RECOMMENDATIONS WILL BE ADHERED TO WHEN REPLACING FILTER FABRIC FENCE DUE TO WEATHERING.
- 6. AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.

CONSTRUCTION ENTRANCE

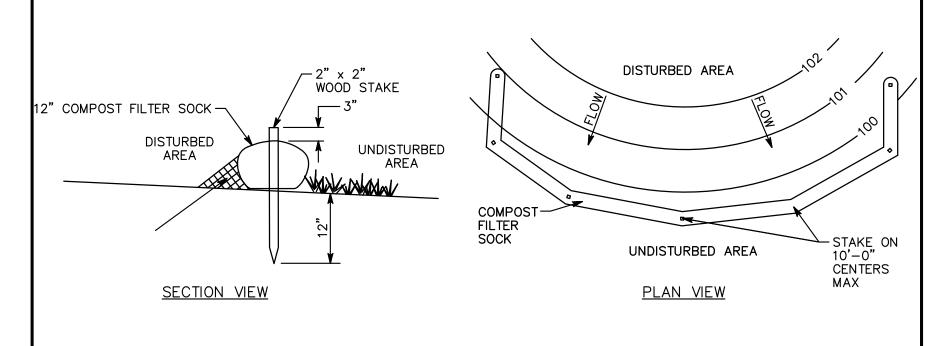
A. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH

#### 50' (MIN.) SILT FENCE — (A)— MAX. SLOPE=5% -20' OR TOTAL WIDTH OF ACCESS MAX. SLOPE=5% 5' MIN. (A)**PLAN VIEW** AASHTO #1 ROCK. -C = 8 IN.-EXISTING GRADE SILT FENCE OR HAY BALE FILTER —GEOTEXTILE SECTION A-A 1. PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY 2. ALL SIDE SLOPES SHALL BE 2 TO 1 OR FLATTER. ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL 3. STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIRED. SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. 4. SILT FENCE SHALL BE INSTALLED AS DETAILED HEREON. 5. STOCKPILE NOT TO EXCEED 35 FEET IN HEIGHT



- EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.
- 4. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

## FILTER BAG INLET PROTECTION



- 1. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
- 2. PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
- 3. REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS. 4. ALL DIMENSIONS ARE IN U.S. CUSTOMARY UNITS. 5. CONTRACTOR SHALL PROVIDE SAND BAGS, CONCRETE BLOCKS, OR OTHER SUITABLE MATERIAL TO
- STABILIZE COMPOST FILTER SOCK ON PAVED AREAS AND PREVENT IT FROM MOVING OR SHIFTING. 6. STABILIZING DEVICES SHALL BE SPACED 10 FEET ON CENTER OR AS RECOMMENDED BY THE

### COMPOST FILTER SOCK, 12" DIAMETER

# PROTECT YOURSELF



WHAT YOU DON'T KNOW CAN HURT YOU.

MANUFACTURER, WHICHEVER IS LESS.

CALL BEFORE YOU DIG! PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE & 10 WORKING DAYS IN DESIGN STAGE Pennsylvania One Call System, Inc. 1-800-242-1776

ACT 187 IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 187 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR

900 RACE STREET

PHILADELPHIA, PENNSYLVANIA 19107

TO START OF CONSTRUCTION.

PENNSYLVANIA ONE CALL: 1-800-242-1776 1101 MARKET STREET, 2nd FLOOR PHILADELPHIA, PENNSYLVANIA (215) 685-6270

(215) 351-8947 PHILADELPHIA GAS WORKS 1351 S. COLUMBUS BOULEVARD 300 W. MONTGOMERY AVENUE, 3RD FLOOR PHILADELPHIA, PENNSYLVANIA 19122 PHILADELPHIA, PENNSYLVANIA 19147 (215) 952-4935 (215) 684-6796

<u>PECO-CONSTRUCTION DEPARTMENT</u> 2301 MARKET STREET PHILADELPHIA, PENNSYLVANIA 19103 (215) 731-3264

REVISIONS

REVISIONS

ISSUE DATE

DESIGN DEVELOPMENT

MICHELLE SHUMAN

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor

Philadelphia, Pennsylvania 19103

215 985 4410 fax 985 4430

### CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING

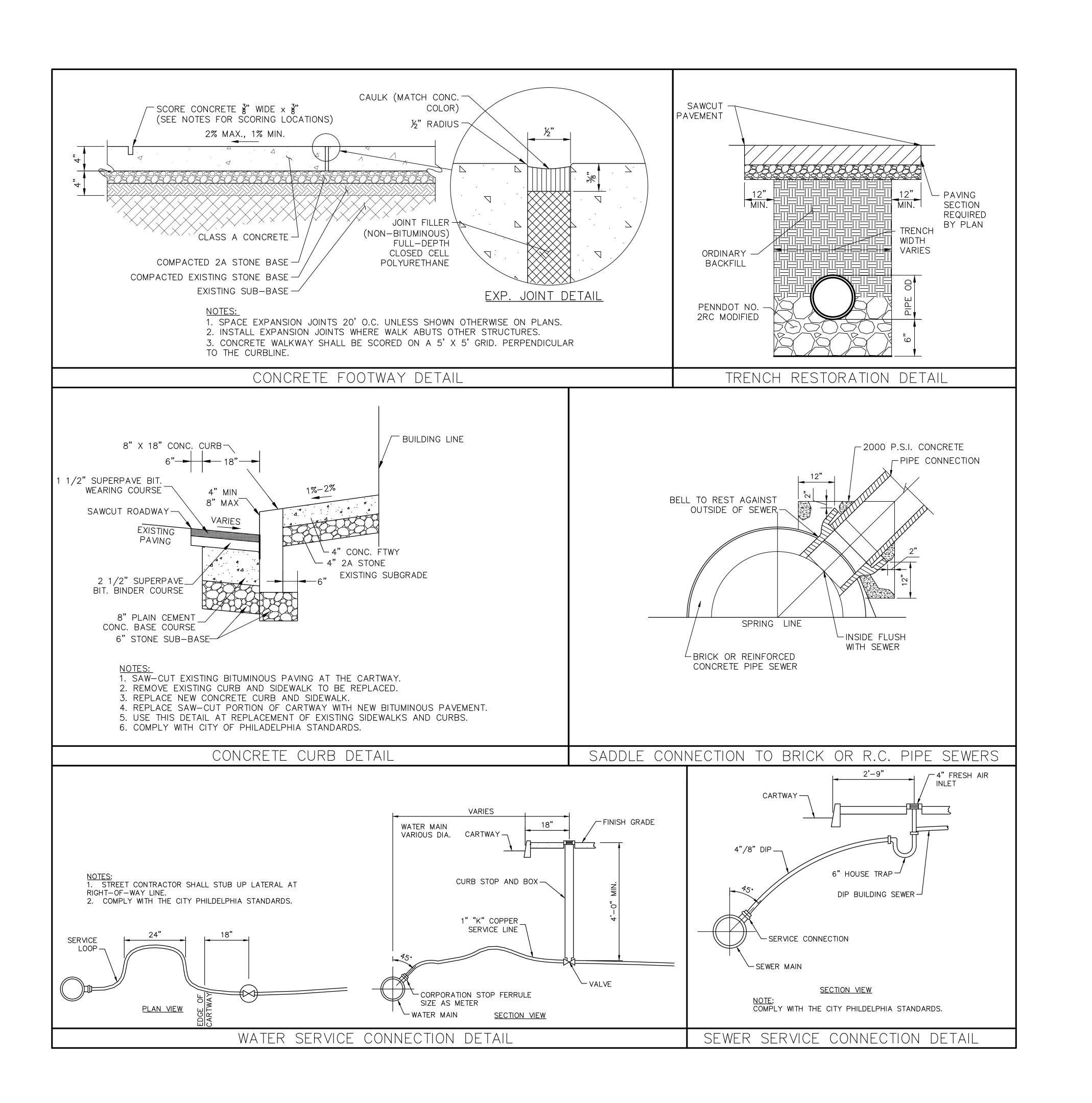
MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

**EROSION AND SEDIMENT** CONTROL NOTES AND DETAILS

PROJECT NO. DRAWING NO 20-11-4199-99 7-2-2015 SCALE SEE DWG. SEG

CHECKED BY DJH



<b>F</b>	くヒン	ISION
ISSUE	DATE	REVISIONS
	DESIGN	DEVELOPMENT
	NEOIGN	↑ N P N P L M P N I
DDG IEST 111	DIMATOR	
PROJECT COOF		
	MICHE	CLLE SHUMAN
SMPA	ARCHITE	CTS
Philadelph	nut Street, 2nd iia, Pennsylvar	ia 19103
215 985 4	410 fax 985 4	430

# CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA
PROJECT TITLE

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

#### CONSTRUCTION DETAILS

PROJECT NO.	DRAWING NO.
20-11-4199-99	
7-2-2015	COE
SCALE NTS	CU5
DRAWN BY SEG	
CHECKED BY DJH	
MOTE: ALL DIMENSIONS AND C VERIFIED BY THE CONT BEFORE PROCEEDING	RACTOR AT THE SITE

#### GOVERNING CODES

INTERNATIONAL BUILDING CODE (IBC) 2009
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2009
INTERNATIONAL FIRE CODE (IFC) 2009
ICC/ANSI 117.1 2003
PHILADELPHIA PLUMBING CODE

#### CODE CHAPTER

# CHAPTER HEADING USE AND OCCUPANCY CLASSIFICATION

303.1 GROUP A-3 ASSEMBLY USES INTENDED FOR RECREATION. TOTAL OCCUPANT LOAD: 342 OCCUPANTS.

#### 5 GENERAL BUILDING HEIGHTS AND AREAS

ALLOWABLE HEIGHT FOR GROUP A-3 (WITH SPRINKLER INCREASE): 3 STORIES OR 75 FEET ALLOWABLE BUILDING AREA PER STORY FOR GROUP A-3 (WITH SPRINKLER INCREASE): 39,595 SF \*39,450 (ALLOWABLE AREA PER STORY) = 9,745SF + 1,050 (FRONTAGE INCREASE) + 28,800 (SPRINKLER INCREASE)

ACTUAL BUILDING HEIGHT IS 1 STORY AND AREA (WITHIN EXTERIOR WALLS) IS 9,745 SF

#### 6 TYPES OF CONSTRUCTION

TABLE 601 TYPE IIB
FIRE-RESIST

FIRE-RESISTANCE RATED CONSTRUCTION FOR BUILDING ELEMENTS
PRIMARY STRUCTURAL FRAME, 0-HOURS
BEARING WALLS (INTERIOR), 0-HOUR
BEARING WALLS (EXTERIOR), 0-HOURS
NONBEARING WALLS AND PARTITIONS (INTERIOR), 0-HOUR
NONBEARING WALLS AND PARTITIONS (EXTERIOR), 0-HOURS IF 10-0" ≥ 30'-0"
FIRE SEPARATION

FLOOR CONSTRUCTION AND SECONDARY MEMBERS, 0-HOURS ROOF CONSTRUCTION AND SECONDARY MEMBERS, 0-HOURS

#### 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

THE ART CLASSROOM WILL BE EQUIPPED WITH A BUILT-IN KILN ROOM. A DRY KILN INSTALLED WITHIN A BUILDING SHALL BE CONSTRUCTED ENTIRELY OF APPROVED NONCOMBUSTIBLE MATERIALS OR ASSEMBLIES OF SUCH MATERIALS.

#### 9 FIRE PROTECTION SYSTEMS

903.2.1.3 AUTOMATIC SPRINKLER ARE REQUIRED IN GROUP A-3 OCCUPANCIES WHERE ONE OF THE FOLLOWING EXISTS:

1) THE FIRE AREA IS GREATER THAN 12,000SF;

2) THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE;

3) THE FIRE AREA IS ON A FLOOR OTHER THAN THE LEVEL OF EXIT DISCHARGE.

ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS: FOR EACH REQUIRED COMMERCIAL KITCHEN EXHAUST HOOD AND DUCT SYSTEM REQUIRED BY SECTION 609 OF THE INTERNATIONAL FIRE CODE OR CHAPTER 5 OF THE INTERNATIONAL MECHANICAL CODE TO HAVE A TYPE I HOOD SHALL BE PROTECTED WITH AN APPROVED AUTOMATIC FIRE-EXTINGUISHING SYSTEM. PER SECTION 903.2.11.5, AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED IN COMMERCIAL KITCHEN EXHAUST HOOD AND DUCT SYSTEM WHERE USED TO COMPLY WITH SECTION 904. AUTOMATIC SPRINKLER SYSTEMS SHALL NOT BE REQUIRED TO BE EQUIPPED WITH MANUAL ACTUATION MEANS. THE ACTUATION OF THE FIRE SUPPRESSION SYSTEM SHALL AUTOMATICALLY SHUT DOWN THE FUEL OR ELECTRICAL POWER SUPPLY TO THE COOKING EQUIPMENT. THE FUEL AND ELECTRICAL SUPPLY RESET SHALL BE MANUAL. SYSTEMS PROTECTING COMMERCIAL-TYPE COOKING EQUIPMENT SHALL BE SUPPLIED FROM A SEPARATE, READILY ACCESSIBLE, INDICATING-TYPE CONTROL VALVE THAT IS IDENTIFIED.

906.1 PORTABLE FIRE EXTINGUISHERS ARE ONLY REQUIRED WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT, AND IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED, OR DISPENSED.

907.2.1 A MANUAL FIRE ALARM SYSTEM IS NOT REQUIRED FOR GROUP A OCCUPANCIES EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

#### 0 MEANS OF EGRESS

TABLE 1004.1.1 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

USE GROUPOCCUPANCY FACTORASSEMBLY, UNCONCENTRATED15 NET SF/OCCEXERCISE ROOMS50 GROSS SF/OCCBUSINESS AREAS (OFFICES)100 GROSS SF/OCCCLASSROOMS20 NET SF/OCCACCESSORY STORAGE300 GROSS SF/OCCKITCHENS200 GROSS SF/OCC

005.1 MINIMUM EGRESS WIDTH OF 0.2 INCHES PER OCCUPANT

006.1 MEANS OF EGRESS ILLUMINATION REQUIRED

O07.1 ACCESSIBLE MEANS OF EGRESS REQUIRED. TWO ACCESSIBLE MEANS OF EGRESS ARE REQUIRED, EACH OF WHICH MUST BE ACCESSIBLE PER QUALIFICATIONS IN SECTIONS 1015.1 AND 1021.1.

1008.1.1 MINIMUM DOOR WIDTH OF DOOR OPENING SHALL BE SUFFICIENT FOR OCCUPANT LOAD THEREOF AND PROVIDE A CLEAR WIDTH OF 32"

1011.1 EXIT SIGNS WHERE REQUIRED AT EXITS AND EXIT ACCESS DOORS AND ALONG PATH OF EGRESS TRAVEL.

14.3 COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75'-0".

TABLE 1015.1 FOR GROUP A OCCUPANCY SPACES WITH GREATER THAN 49 OCCUPANTS, TWO EXITS ARE REQUIRED. WHERE THE BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM, SEPARATION DISTANCE OF THE EXIT DOORS SHALL NOT BE LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

TABLE 1016.1 EXIT ACCESS TRAVEL DISTANCE FOR GROUP A OCCUPANCIES WITH A SPRINKLER SYSTEM IS 250 FEET.

CODE
CHAPTER CHAPTER HEADING

#### 10 MEANS OF EGRESS

TABLE 1018.1 FOR GROUP A OCCUPANCY WITH A LOAD GREATER THAN 30 OCCUPANTS AND AN AUTOMATIC SPRINKLER SYSTEM, THE CORRIDORS ARE NOT REQUIRED TO BE RATED.

1018.4 DEAD END CORRIDORS SHALL BE NO MORE THAN 20 FEET IN LENGTH.

TABLE 1021.1 MINIMUM NUMBER OF 2 EXITS IS REQUIRED FOR AN OCCUPANT LOAD OF 1-500.

#### 11 ACCESSIBILITY

1103.1 WHERE REQUIRED, SITES, BUILDINGS, ELEMENTS, AND SPACES, TEMPORARY AND PERMANENT, SHALL BE ACCESSIBLE TO PERSONS WITH PHYSICAL DISABILITIES.

1104.2 WITHIN A SITE, AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.

1104.3.1 EMPLOYEE WORK AREAS-- EXCEPTIONS-- COMMON USE CIRCULATION PATHS LOCATED WITHIN EMPLOYEE WORK AREAS LESS THAN 300 SF AND DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS SHALL NOT BE REQUIRED TO BE ACCESSIBLE ROUTES.

1105.1 AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

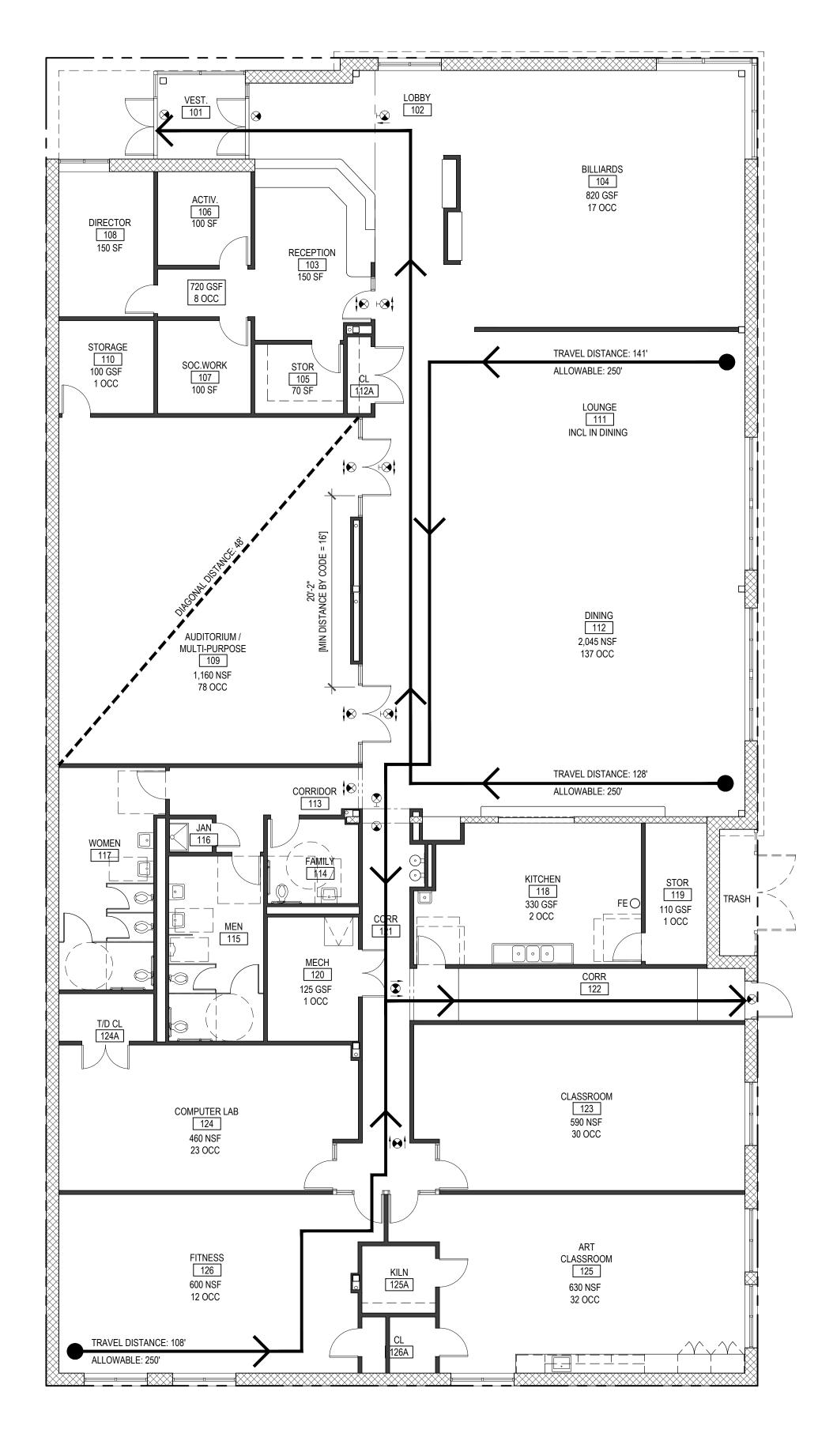
1109.2.1 IN ASSEMBLY OCCUPANCIES WHERE AN AGGREGATE OF SIX OR MORE WATER CLOSETS IS REQUIRED, A FAMILY OR ASSISTED-USE TOILET ROOM IS REQUIRED.

#### CODE PLAN KEY

DOOR CAPACITY	TRAVEL DISTANCE
EXIT DOOR  EXIT WIDTH —— EW 36"  EXIT FACTOR —— FC 0.2  ALLOWABLE CAPACITY —— ALLOW 180  ACTUAL CAPACITY —— ACTUAL 27	ACTUAL TRAVEL DISTANCE  ALLOWABLE TRAVEL DISTANCE
CORRIDOR CAPACITY	SYMBOLS
CORRIDOR  CLEAR CORRIDOR WIDTH —— CW 44"  EGRESS WIDTH PER OCC. —— FC 0.2  MAXIMUM CAPACITY —— ALLOW 220  ACTUAL OCCUPANT LOAD —— ACTUAL 27	FE FIRE EXTINGUISHER CABINET  CEILING MOUNTED EXIT SIGN  WALL MOUNTED EXIT SIGN  SEE REFLECTED CEILING PLANS FOR ACTUAL EXIT SIGN LOCATIONS, AND FACE/ARROW REQUIREMENTS

#### PLUMBING FIXTURE COUNTS- PHILADELPHIA PLUMBING CODE

OCCUPANCY	OCCUPANCY	WA <sup>-</sup> CLOS	TER SETS		URIN	IALS	LAVAT	ORIES	DRIN FOUN	-	SHOV	VERS
TYPE	COUNT	REQ'D	PROV.		REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.
ASSEMBLY (A-3)	201-401 PEOPLE	4		7	1	3	2	4	1	2	NOT	REQ'D





REVISIONS

ISSUE DATE REVISIONS

DESIGN DEVELOPMENT

MICHELLE SHUMAN

PROJECT COORDINATOR

SMPARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING

PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

MARTIN LUTHER KING
OLDER ADULT CENTER
21ST STREET & CECIL B. MOORE AVENUE

PHILADELPHIA, PA 19121

RAWING TITLE

CODE INFORMATION

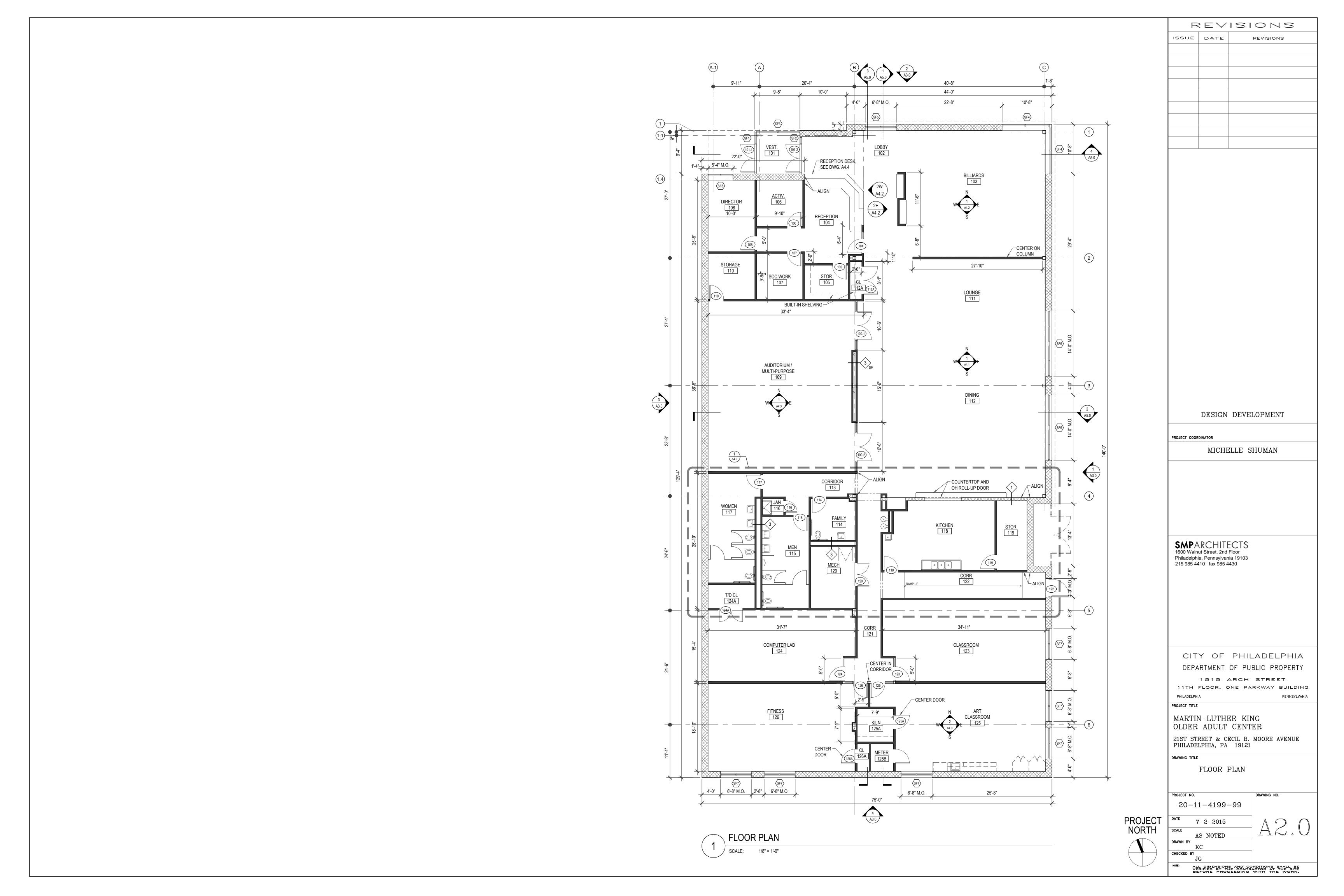
PROJECT NO. 20-11-4199-99

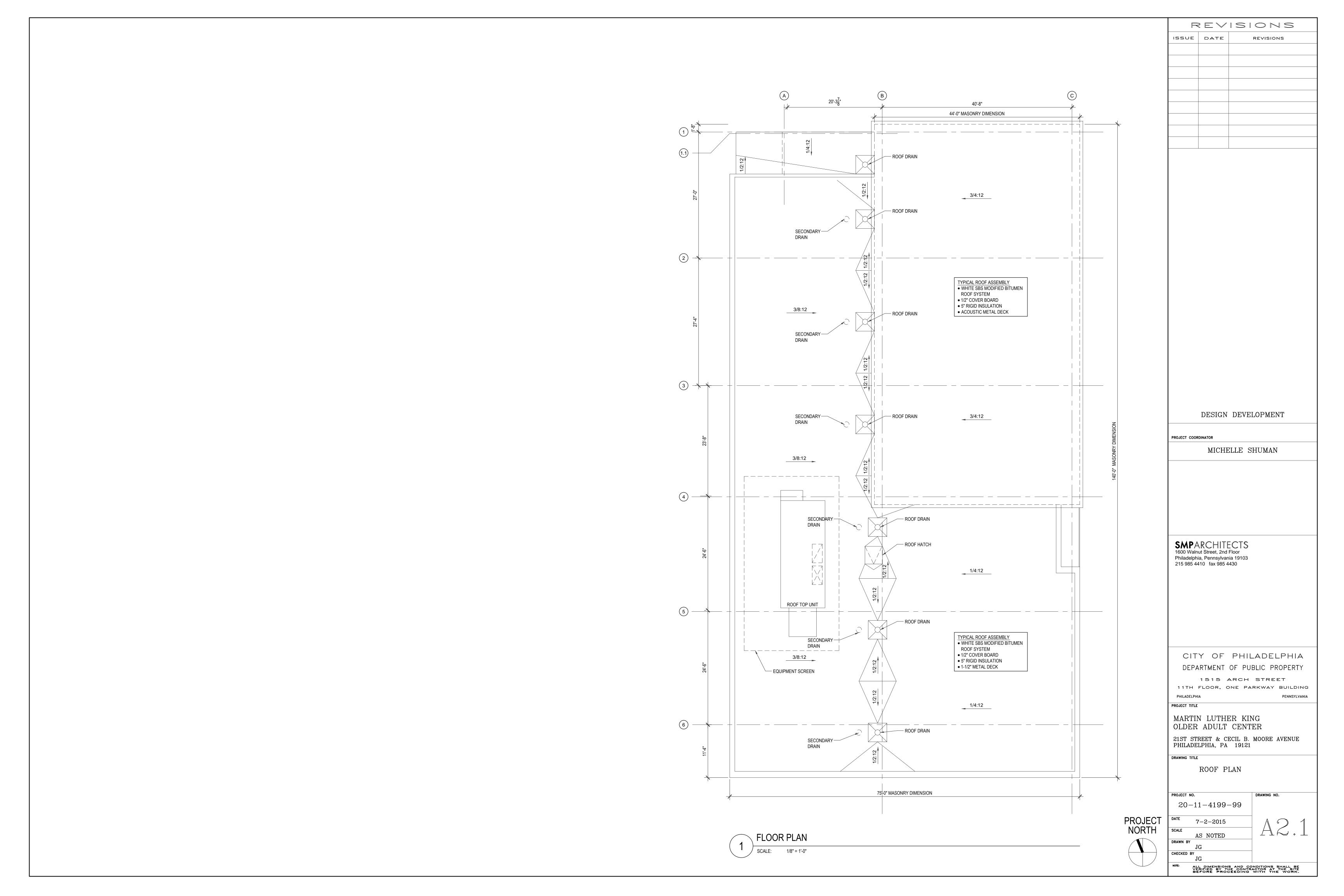
7-2-2015
AS NOTED

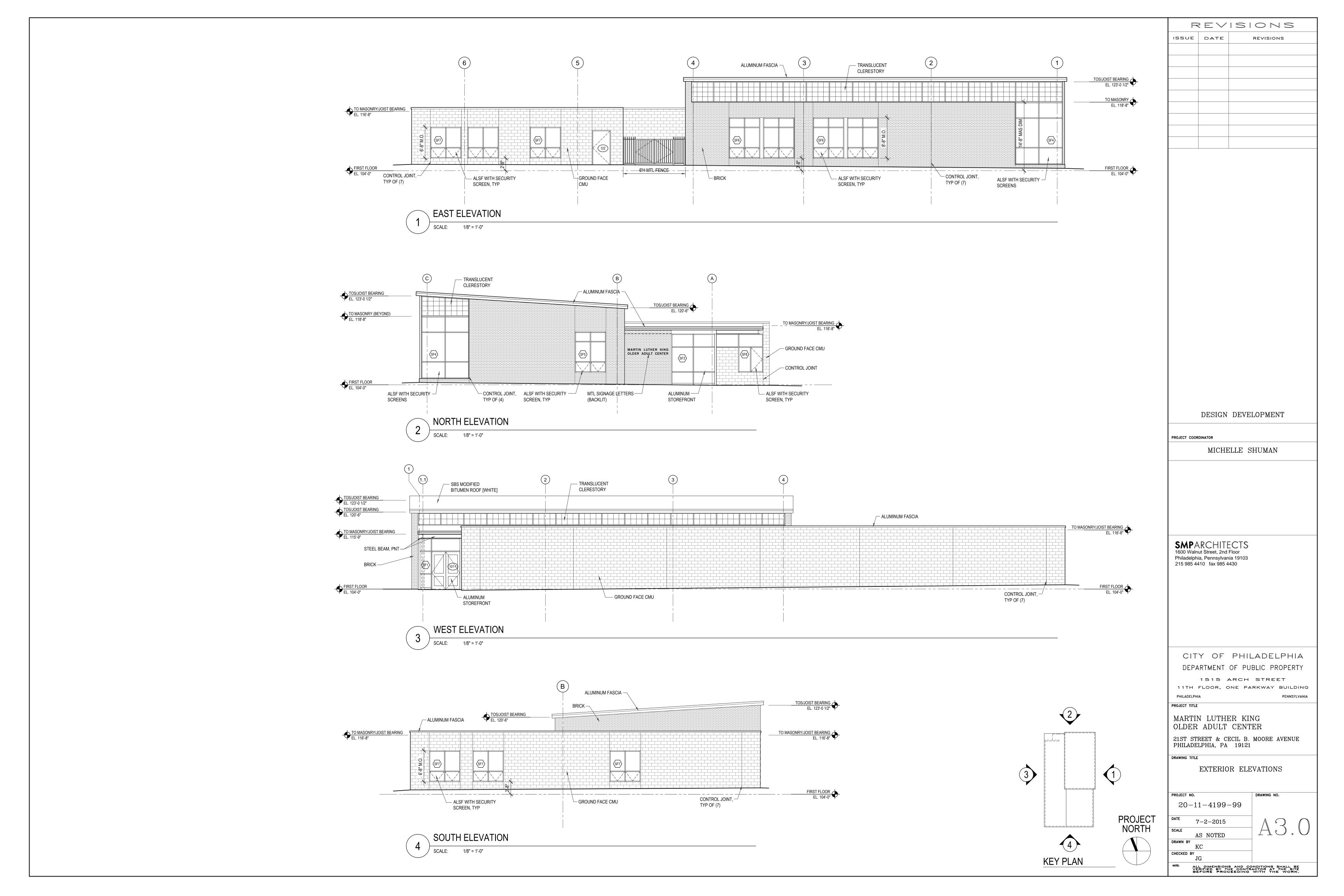
CHECKED BY TW

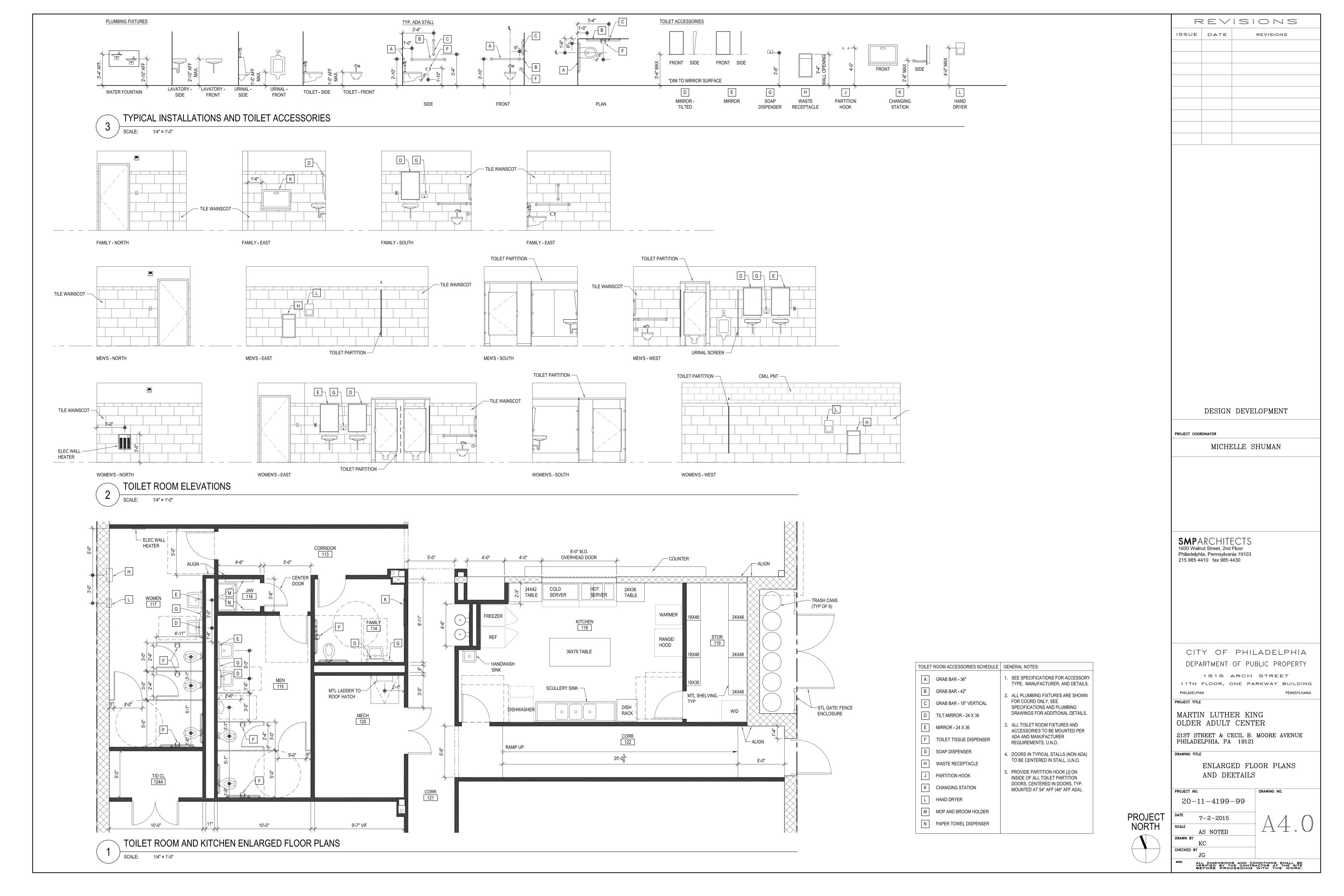
TW

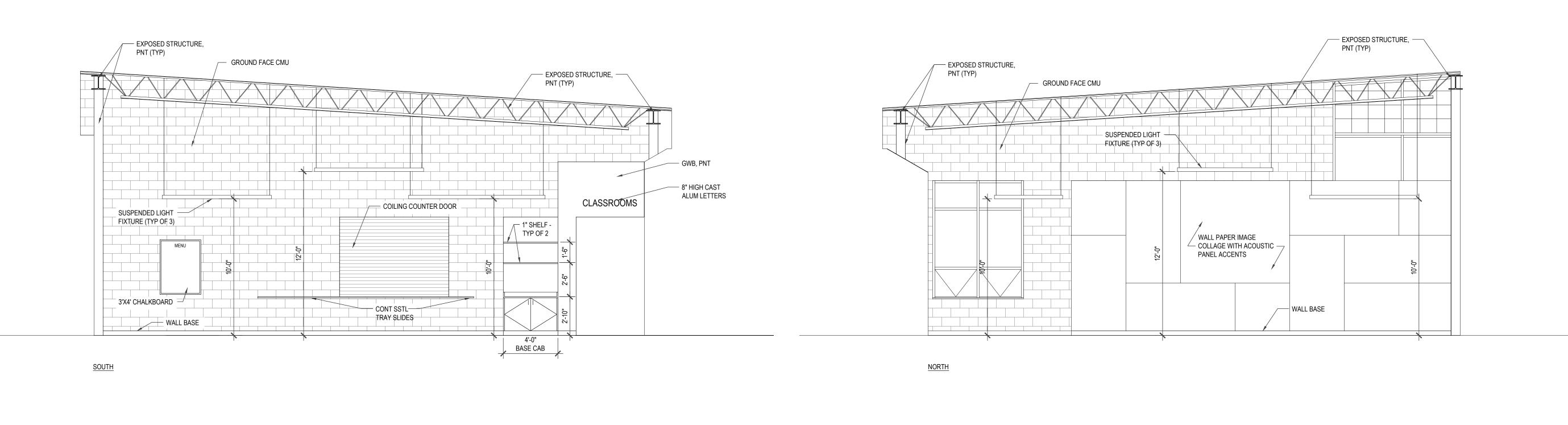
E: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



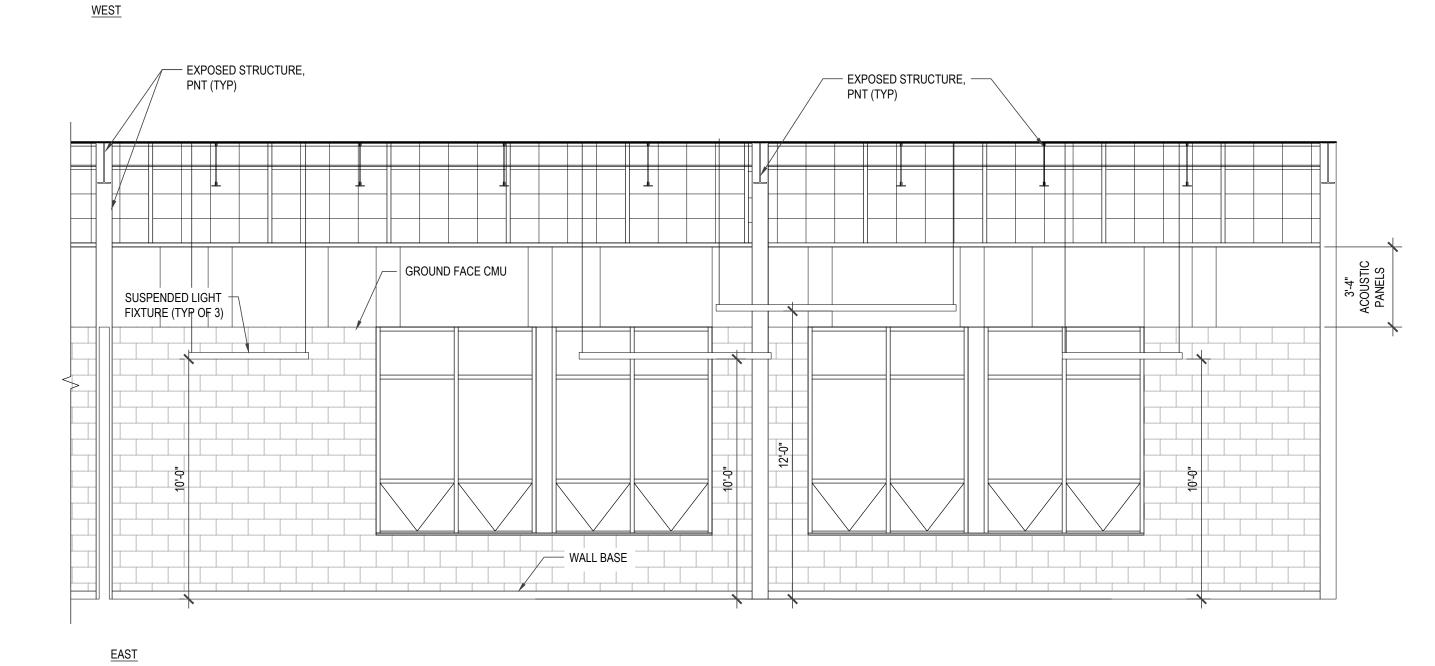








— EXPOSED STRUCTURE, — EXPOSED STRUCTURE, PNT (TYP) ✓GWB, PNT ←GWB, PNT→ SUSPENDED LIGHT — RECESSED — FIXTURE (TYP OF 4) BOOKCASE / WALL BASE RECESSED — BOOKCASE ACOUSTIC WALL PANELS



DINING / LOUNGE ELEVATIONS ) SCALE: 1/4" = 1'-0"

SMPARCHITECTS
1600 Walnut Street, 2nd Floor
Philadelphia, Pennsylvania 19103
215 985 4410 fax 985 4430 1515 ARCH STREET PHILADELPHIA PROJECT TITLE MARTIN LUTHER KING OLDER ADULT CENTER 21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121 DRAWING TITLE PROJECT NO. 20-11-4199-99 7-2-2015 AS NOTED DRAWN BY CHECKED BY

DESIGN DEVELOPMENT

REVISIONS

REVISIONS

ISSUE DATE

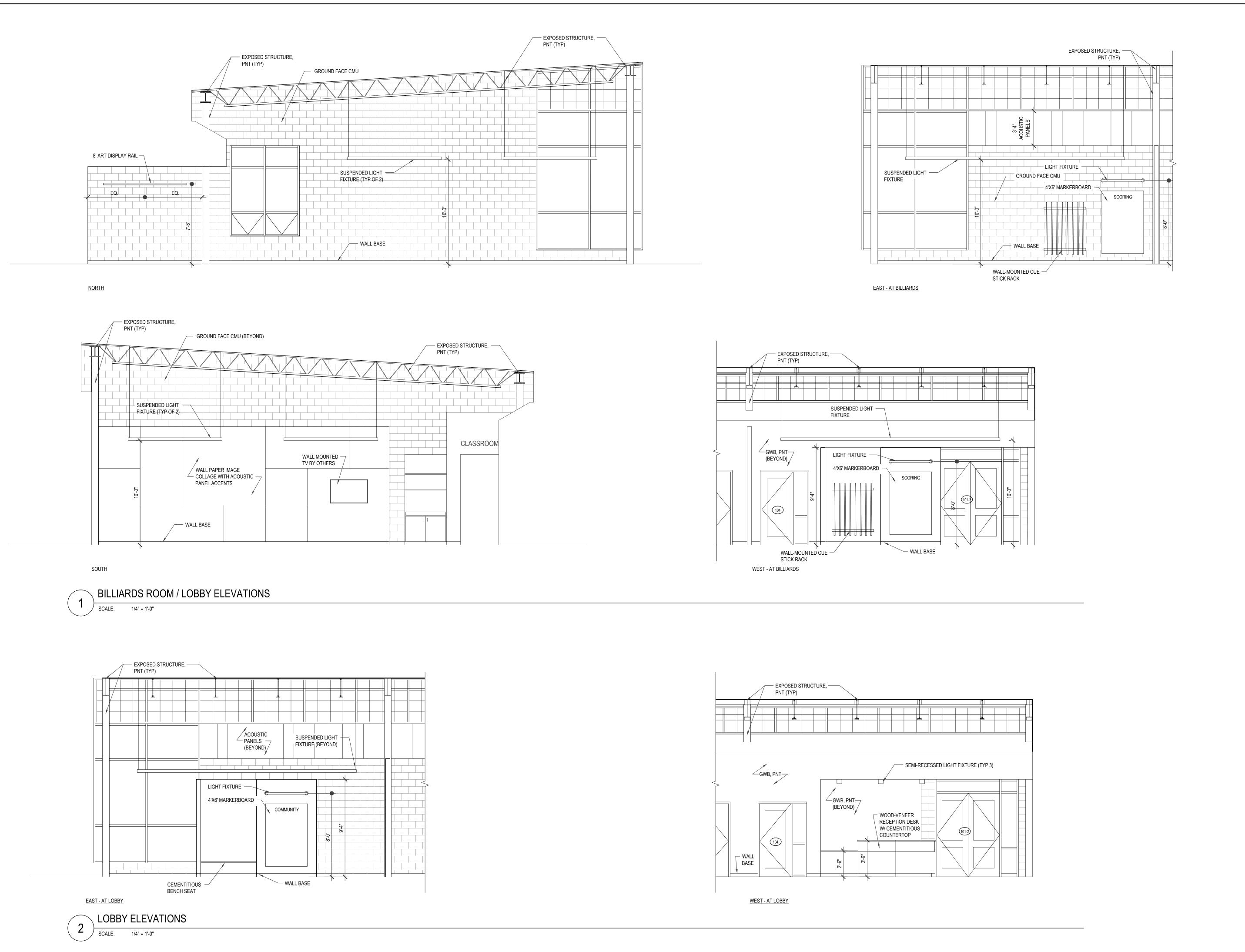
PROJECT COORDINATOR

MICHELLE SHUMAN

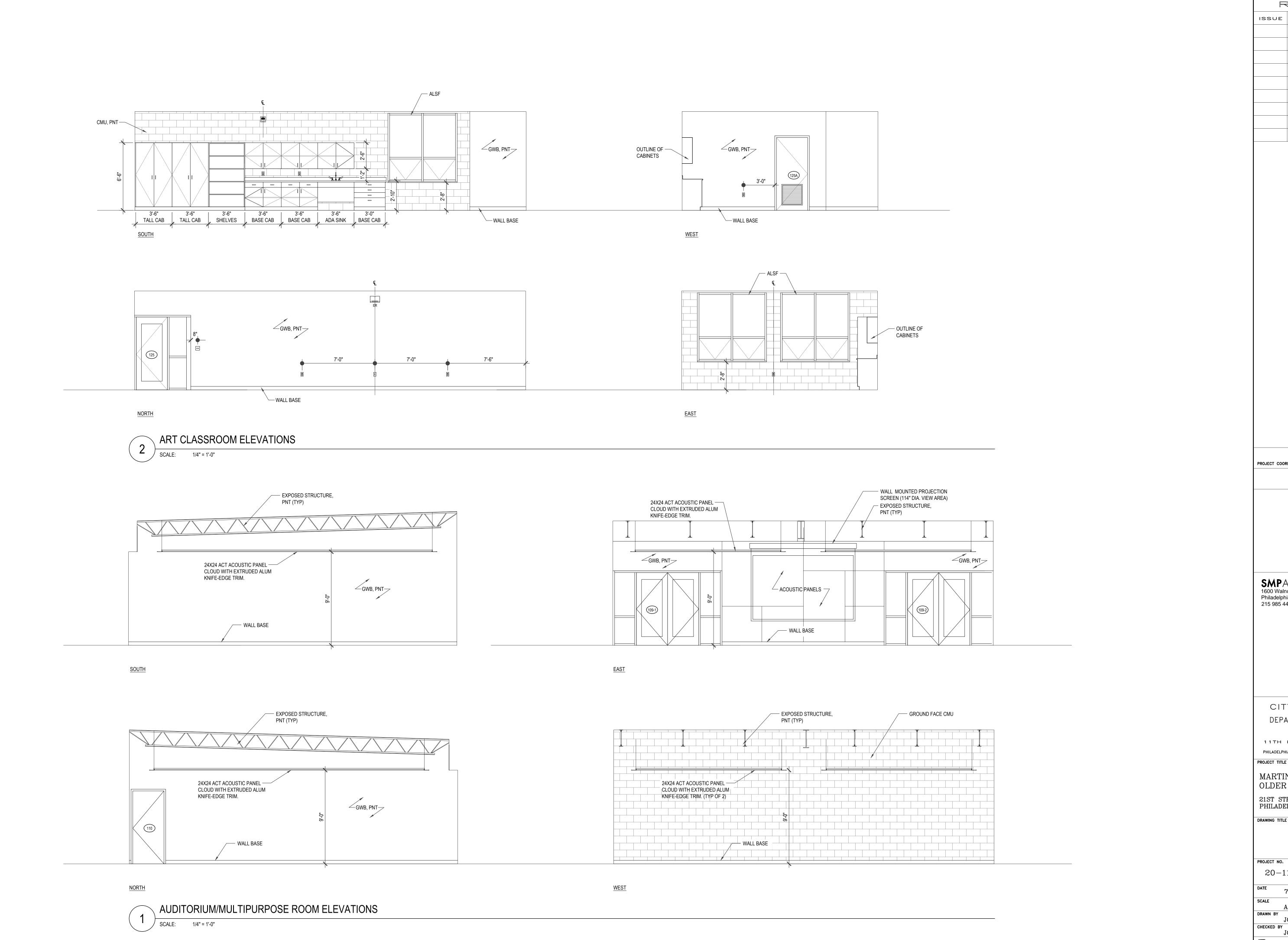
CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

11TH FLOOR, ONE PARKWAY BUILDING PENNSYLVANIA

INTERIOR ELEVATIONS



ISSUE DATE	
1330E DATE	REVISIONS
DESIGN	DEVELOPMENT
2201011	
PROJECT COORDINATOR	
MICHE	LLE SHUMAN
<b>ÇÂÁ D</b> A D∕LITT	:CTS
SMPARCHITE 1600 Walnut Street, 2nd Philadelphia, Pennsylvan	Floor
SMPARCHITE 1600 Walnut Street, 2nd I Philadelphia, Pennsylvan 215 985 4410 fax 985 4	Floor ia 19103
1600 Walnut Street, 2nd Philadelphia, Pennsylvan	Floor ia 19103
1600 Walnut Street, 2nd Philadelphia, Pennsylvan	Floor ia 19103
1600 Walnut Street, 2nd Philadelphia, Pennsylvan	Floor ia 19103
1600 Walnut Street, 2nd Philadelphia, Pennsylvan	Floor ia 19103
1600 Walnut Street, 2nd Philadelphia, Pennsylvan	Floor ia 19103
1600 Walnut Street, 2nd Philadelphia, Pennsylvan 215 985 4410 fax 985 4	Floor ia 19103 430
1600 Walnut Street, 2nd Philadelphia, Pennsylvan 215 985 4410 fax 985 4	Floor ia 19103
CITY OF  DEPARTMENT	PHILADELPHIA
CITY OF DEPARTMENT  1515 A  11TH FLOOR, OF	Floor ia 19103 430  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET THE PARKWAY BUILDING
CITY OF DEPARTMENT	Floor ia 19103 430  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET
CITY OF DEPARTMENT 1515 A 11TH FLOOR, OPHILADELPHIA PROJECT TITLE MARTIN LUTHE	PHILADELPHIA  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET  THE PARKWAY BUILDING  PENNSYLVANIA
CITY OF DEPARTMENT  1515 A  11TH FLOOR, OPHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT	PHILADELPHIA OF PUBLIC PROPERTY ARCH STREET THE PARKWAY BUILDING PENNSYLVANIA  CR KING CENTER
CITY OF DEPARTMENT  1515 A  11TH FLOOR, OPHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT	PHILADELPHIA  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET  THE PARKWAY BUILDING  PENNSYLVANIA  CR KING  CENTER  ECIL B. MOORE AVENUE
CITY OF DEPARTMENT  1515  11TH FLOOR, OF PHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT  21ST STREET & CE PHILADELPHIA, PA  DRAWING TITLE	PHILADELPHIA  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET  THE PARKWAY BUILDING  PENNSYLVANIA  CR KING  CENTER  CCIL B. MOORE AVENUE  19121
CITY OF DEPARTMENT  1515  11TH FLOOR, OF PHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT  21ST STREET & CE PHILADELPHIA, PA  DRAWING TITLE	PHILADELPHIA  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET  THE PARKWAY BUILDING  PENNSYLVANIA  CR KING  CENTER  ECIL B. MOORE AVENUE
CITY OF DEPARTMENT  1515  11TH FLOOR, OF PHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT  21ST STREET & CE PHILADELPHIA, PA  DRAWING TITLE  INTERIOR	PHILADELPHIA OF PUBLIC PROPERTY ARCH STREET THE PARKWAY BUILDING PENNSYLVANIA  CR KING CENTER CCIL B. MOORE AVENUE 19121
CITY OF DEPARTMENT  1515 A 11TH FLOOR, O PHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT  21ST STREET & CE PHILADELPHIA, PA  DRAWING TITLE  INTERIO	PHILADELPHIA  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET  NE PARKWAY BUILDING  PENNSYLVANIA  CR KING  CENTER  ECIL B. MOORE AVENUE  19121  R ELEVATIONS
CITY OF DEPARTMENT  1515  1TH FLOOR, OF PHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT  21ST STREET & CE PHILADELPHIA, PA  DRAWING TITLE  INTERIOR  PROJECT NO.  20-11-4199-	PHILADELPHIA OF PUBLIC PROPERTY ARCH STREET NE PARKWAY BUILDING PENNSYLVANIA  CR KING CENTER ECIL B. MOORE AVENUE 19121  R ELEVATIONS  DRAWING NO.
CITY OF Philadelphia, Pennsylvan 215 985 4410 fax 985 4  CITY OF DEPARTMENT  1 5 1 5 4  1 1 TH FLOOR, OF PHILADELPHIA  PROJECT TITLE  MARTIN LUTHE OLDER ADULT  21 ST STREET & CE PHILADELPHIA, PA  DRAWING TITLE  INTERION  PROJECT NO.  20-11-4199-  DATE 7-2-2015  SCALE	PHILADELPHIA OF PUBLIC PROPERTY ARCH STREET NE PARKWAY BUILDING PENNSYLVANIA  CR KING CENTER ECIL B. MOORE AVENUE 19121  R ELEVATIONS  DRAWING NO.
CITY OF DEPARTMENT  1515 A 11TH FLOOR, OPHILADELPHIA PROJECT TITLE  MARTIN LUTHE OLDER ADULT  21ST STREET & CEPHILADELPHIA, PA  DRAWING TITLE  INTERIOR  PROJECT NO. 20-11-4199-  DATE 7-2-2015	PHILADELPHIA  PHILADELPHIA  OF PUBLIC PROPERTY  ARCH STREET  THE PARKWAY BUILDING  PENNSYLVANIA  CR KING  CENTER  ECIL B. MOORE AVENUE  19121  R ELEVATIONS



REVISIONS ISSUE DATE REVISIONS

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

SMPARCHITECTS
1600 Walnut Street, 2nd Floor
Philadelphia, Pennsylvania 19103
215 985 4410 fax 985 4430

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PENNSYLVANIA PHILADELPHIA

PROJECT TITLE

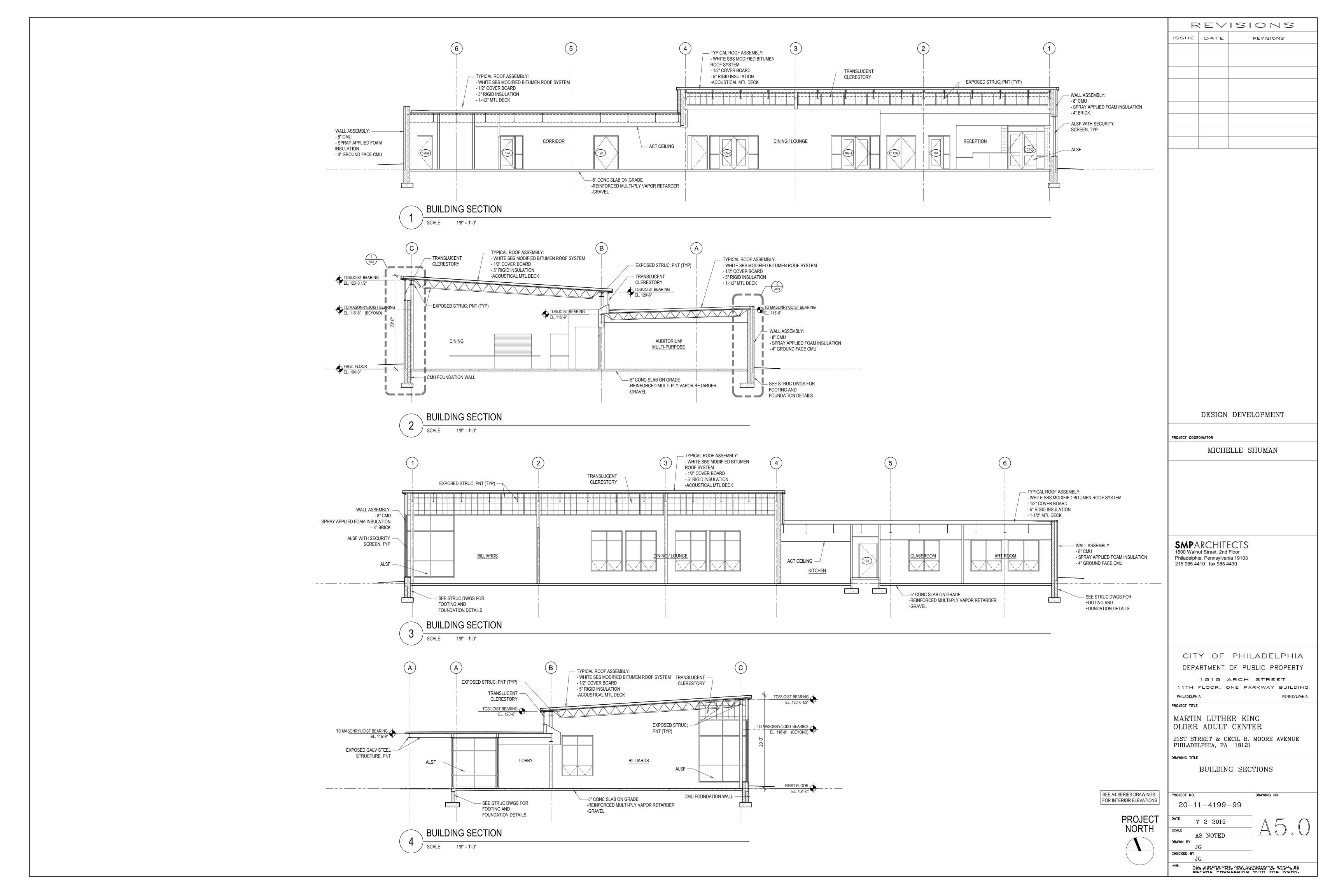
MARTIN LUTHER KING OLDER ADULT CENTER

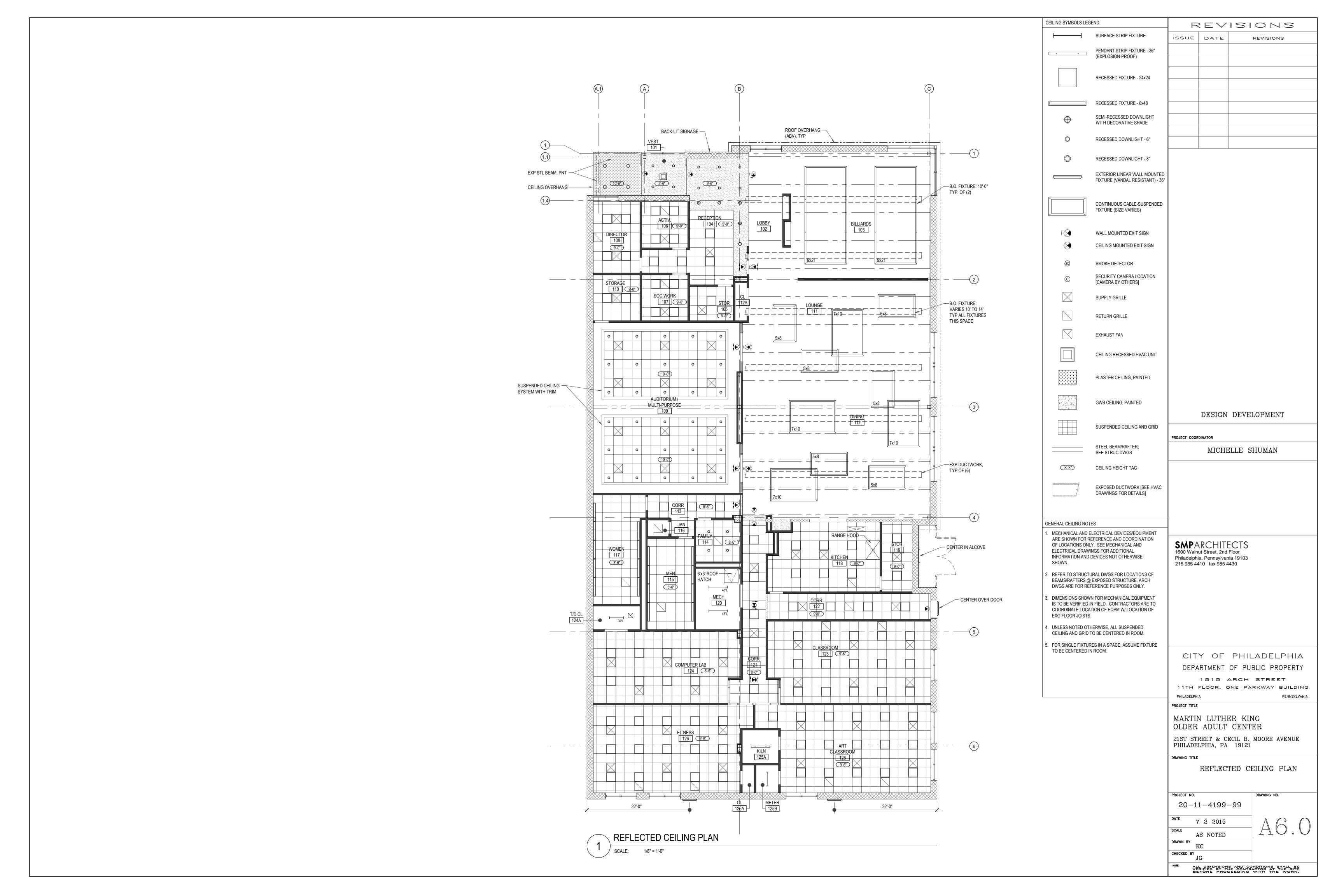
21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

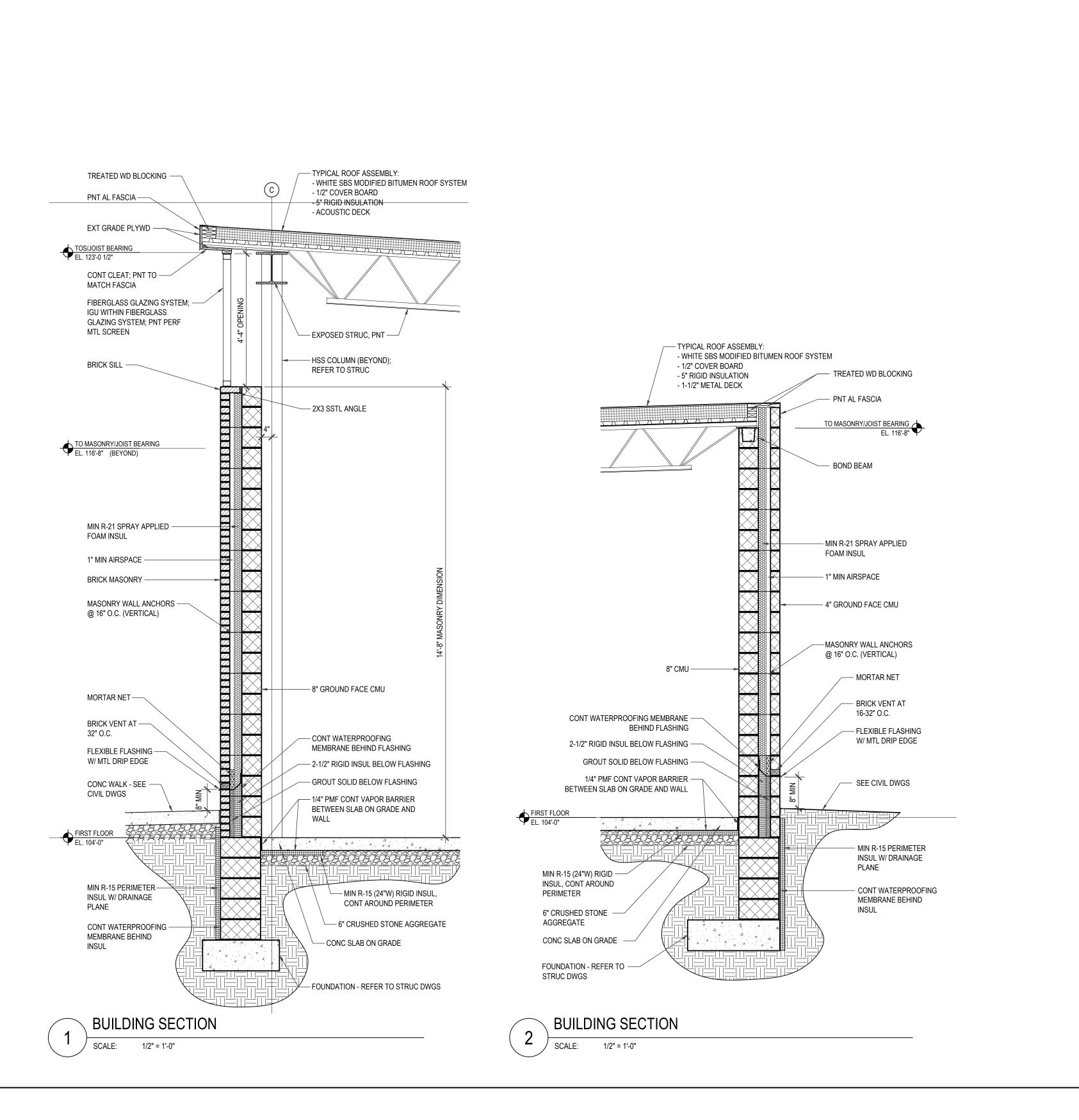
DRAWING TITLE

INTERIOR ELEVATIONS

20-11-4199-99 7-2-2015 AS NOTED





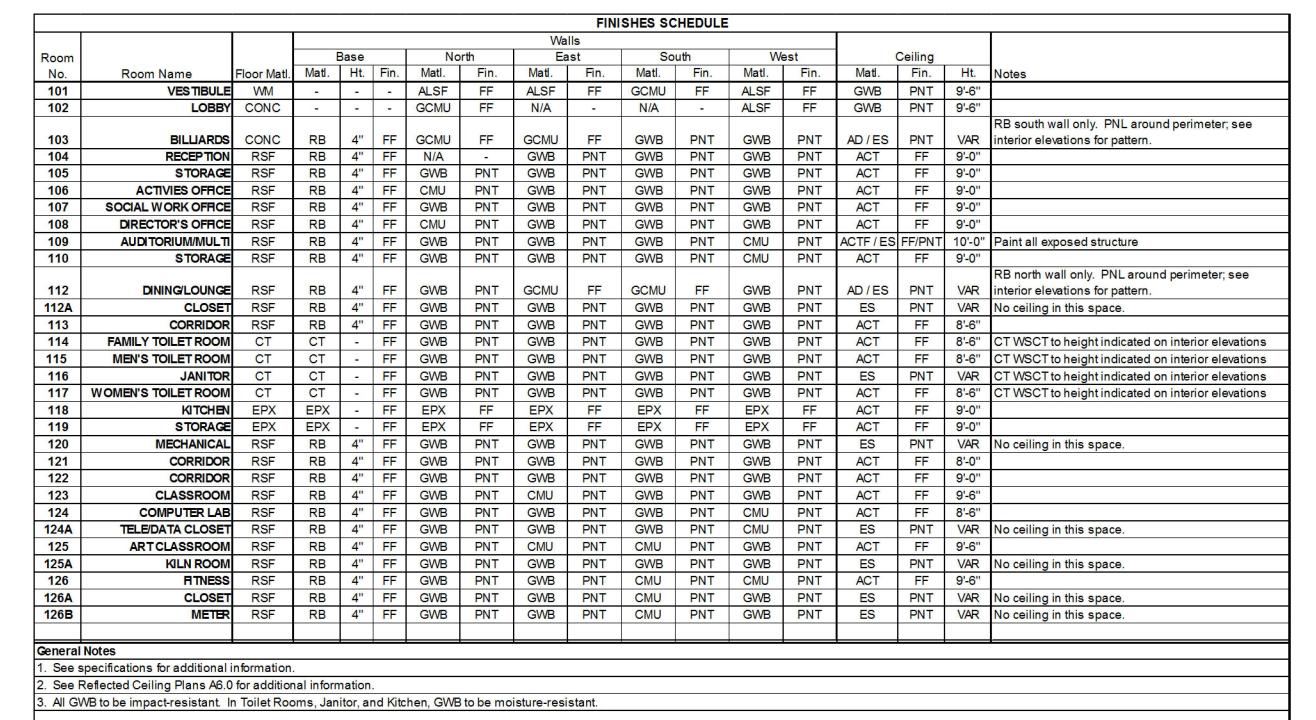


ISSUE DATE REVISIONS DESIGN DEVELOPMENT PROJECT COORDINATOR MICHELLE SHUMAN **SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430 CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PROJECT TITLE MARTIN LUTHER KING OLDER ADULT CENTER 21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121 DRAWING TITLE WALL SECTIONS PROJECT NO. 20-11-4199-99 7-2-2015 DRAWN BY

CHECKED BY

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

REVISIONS



FINISHES SCHEDULE

PARTI	PARTITION TYPES							
TYPE	DESCRIPTION	HEIGHT	FIRE UL#	DETAIL	SPECIFICATION			
1>	MASONRY PARTITION	TO UNDERSIDE OF DECK	_		NOM. 8"x8"x16" CMU W/ 3/8" MORTAR JOINTS TO UNDERSIDE OF STRUC			
2	3-5/8" STUDS, GWB BOTH SIDES WITH SOUND BATT INSULATION	TO UNDERSIDE OF DECK	_	r=1∞	3-5/8" MTL STUDS @ 24" OC; 5/8" GWB EACH SIDE WITH SOUND BATT INSULATION BETWEEN STUDS.			
3	3-5/8" STUDS AND GWB ONE SIDE	TO UNDERSIDE OF DECK	_	14	3-5/8" MTL STUDS @ 24" OC; 5/8" GWB FINISH SIDE.			
⟨3A⟩	3-5/8" STUDS AND GWB ONE SIDE WITH SOUND BATT INSULATION	TO UNDERSIDE OF DECK	_		3-5/8" MTL STUDS @ 24" OC; 5/8" GWB FINISH SIDE WITH SOUND BATT INSULATION BETWEEN STUDS.			

. WHERE WALL TILE IS INDICATED ON THE FINISH SCHEDULE, USE 5/8" CEMENT BACKER BOARD SUBSTRATE IN LIEU OF 5/8" GWB.

2. REFER TO ROOM FINISH SCHEDULE FOR INTERIOR WALL FINISHES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. 3. SEE INTERIOR ELEVATIONS AND SECTIONS FOR ADDITIONAL INFORMATION.

4. SEE INTERIOR ELEVATIONS FOR CERAMIC TILE PATTERN AND HEIGHTS. 5. WHERE WALL TYPE IS NOTED AS 'SIM' ON PLANS, SEE INTERIOR ELEVATIONS AND BUILDING SECTIONS FOR DETAILS.

**PARTITION TYPES** 

SCALE: NTS" = 1'-0"

ISSUE DATE REVISIONS

REVISIONS

DESIGN DEVELOPMENT

MICHELLE SHUMAN

PROJECT COORDINATOR

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

PENNSYLVANIA

1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING

PHILADELPHIA

PROJECT TITLE

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

PARTITION AND FINISHES SCHEDULES

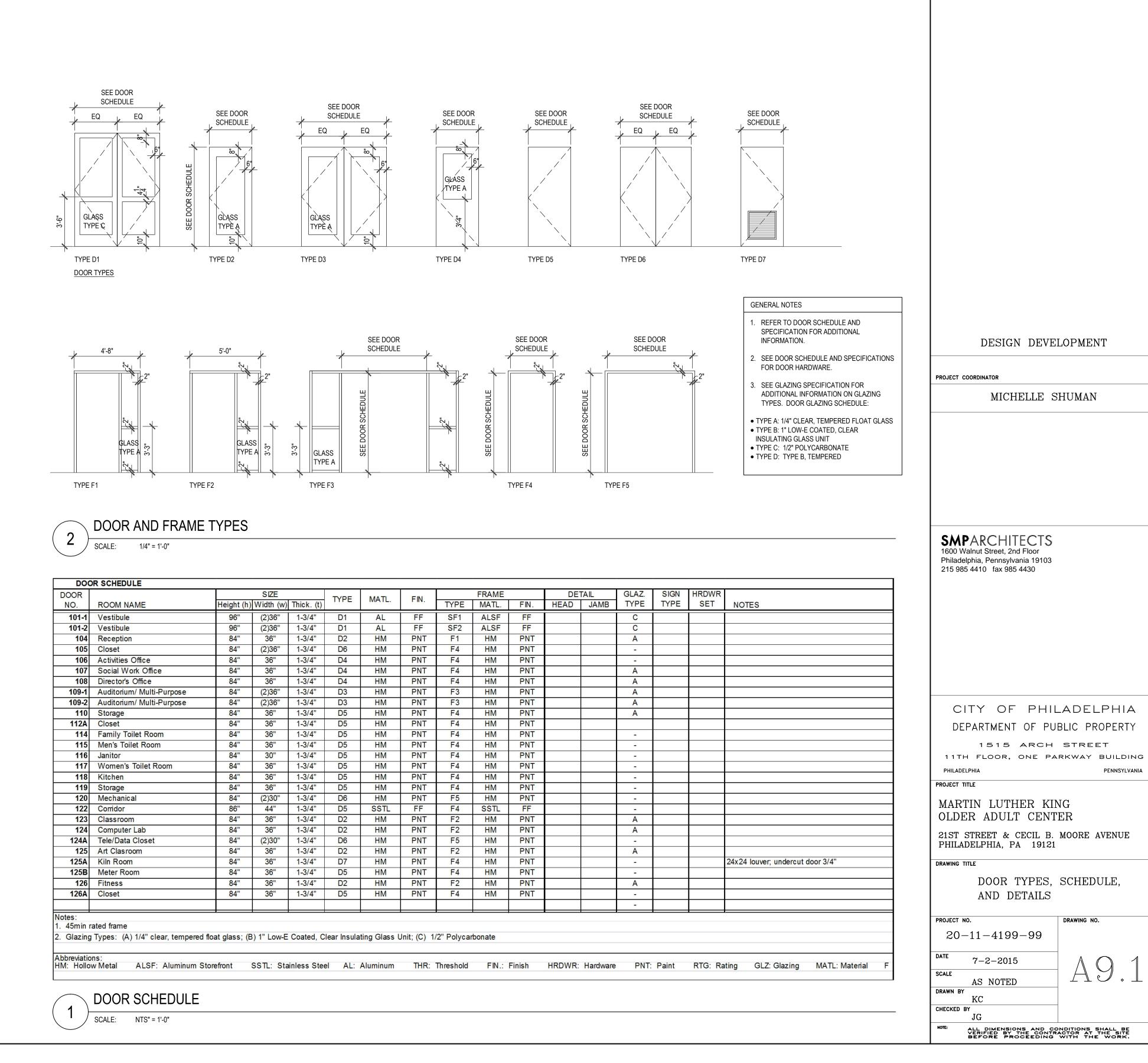
PROJECT NO.

20-11-4199-99

7-2-2015 SCALE

DRAWN BY CHECKED BY

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



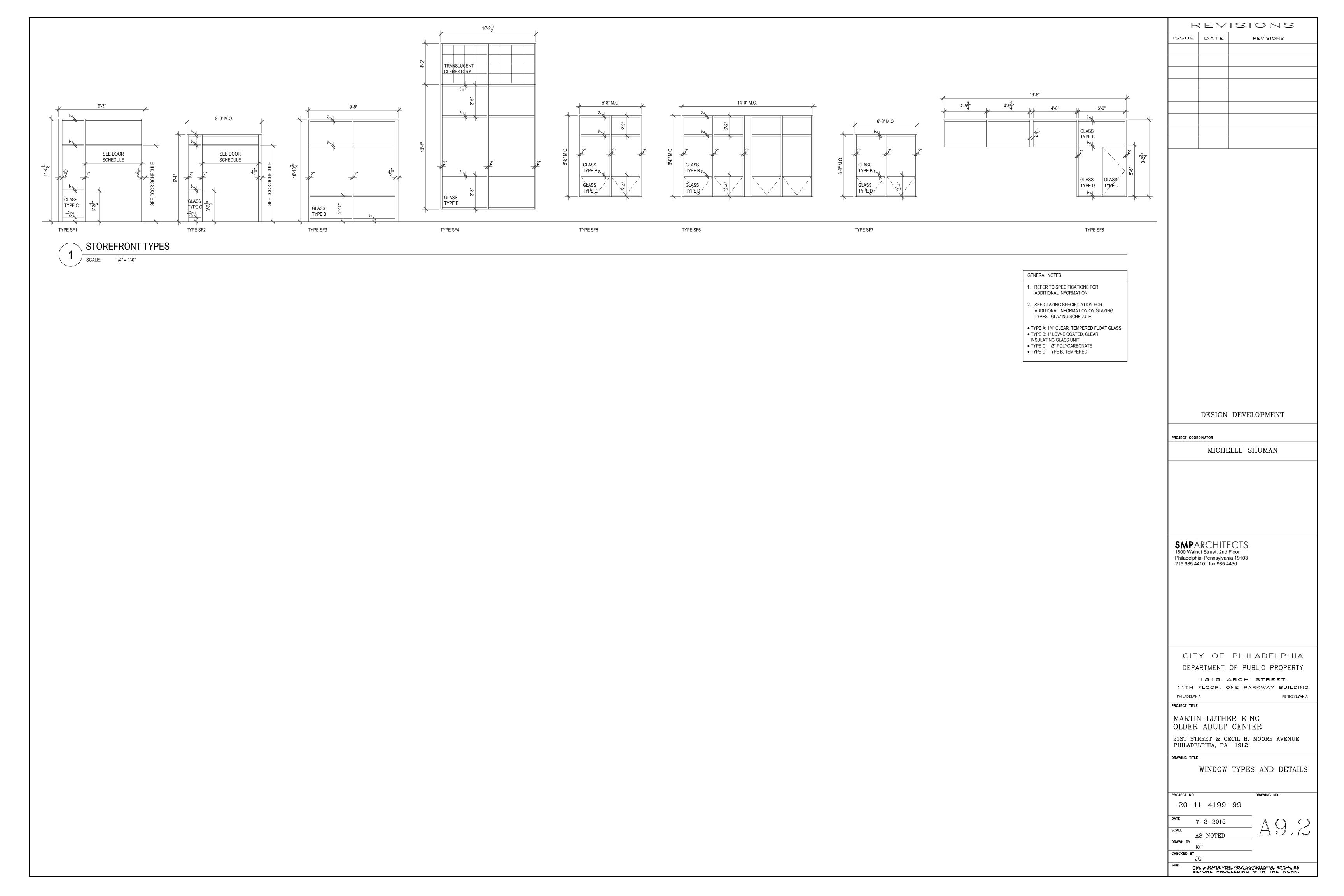
DESIGN DEVELOPMENT PROJECT COORDINATOR MICHELLE SHUMAN **SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430 CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY 1515 ARCH STREET

DRAWING NO.

REVISIONS

REVISIONS

ISSUE DATE



- FEDERAL, STATE, AND LOCAL REGULATIONS. 2. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
- WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE FOR DEWATERING AS REQUIRED DURING EXCAVATION AND CONSTRUCTION.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. 6. THE CONTRACTOR SHALL COORDINATE OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS SHOWN ON THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING
- 7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD.
- 8. ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR IMPROPER INSTALLATION OF STRUCTURAL ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 9. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING THE WORK.
- 10. THE CONTRACTOR SHALL VERIFY AND/OR ESTABLISH ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. FAILURE TO NOTIFY ARCHITECT/ENGINEER OF UNSATISFACTORY CONDITIONS CONSTITUTES ACCEPTANCE OF UNSATISFACTORY CONDITIONS.
- 11. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. DO NOT COMMENCE WORK UNTIL CONDITION IS RESOLVED AND MODIFICATION IS APPROVED BY THE ARCHITECT/ENGINEER.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING, AND
- SHORING, ETC. 13. BRACING, SHEETING, SHORING, ETC., REQUIRED TO INSURE THE STRUCTURAL INTEGRITY OF NEW CONSTRUCTION, SIDEWALKS, UTILITIES, ETC., SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER ENGAGED BY THE CONTRACTOR. DETAILED SIGNED AND SEALED SHOP DRAWINGS SHALL BE PREPARED INDICATING ALL WORK TO BE PERFORMED. SUBMIT THE SHOP DRAWINGS IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.
- 14. IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL. IF IT IS NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8'-0" TO THE WALL, THE CONTRACTOR SHALL BE THE SOLE RESPONSIBLE PARTY AND, AT HIS OWN EXPENSE, SHALL PROVIDE ADEQUATE SUPPORTS OR BRACE THE WALL TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH **EQUIPMENT**
- 15. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL PERFORMANCE ASSEMBLIES IDENTIFIED IN THE GENERAL NOTES AND LISTED BELOW: THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL AND SIGNATURE. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT REQUIREMENTS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL
  - A. NON-LOAD BEARING STUD WALL AND CURTAIN WALL SYSTEMS AND RELATED CONNECTIONS: DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. BACK UP SYSTEM AND CURTAIN WALL SHALL BE DESIGNED FOR A MAXIMUM DEFLECTION OF 1/600 OF THE SPAN, OR 3/8", WHICHEVER IS LESS, AT THE APPLICABLE DESIGN WIND LOAD.
- 17. SHOP DRAWINGS FOR ALL STRUCTURAL MATERIALS TO BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO THE START OF FABRICATION OR COMMENCEMENT OF WORK. REVIEW PERIOD SHALL BE A MINIMUM OF
- 18. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND
- 19. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- 20. THE SHOP DRAWINGS SHALL INCLUDE DIMENSIONED FLOOR AND ROOF EDGES, OPENINGS AND SLEEVES AT ALL FLOORS REQUIRED FOR ALL TRADES.
- 21. THE STRUCTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL STRUCTURAL FEATURES, UNLESS NOTED OTHERWISE. THE ARCHITECTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL DIMENSIONS.
- 22. SUBMIT PERIODIC REPORTS WITHIN ONE BUSINESS DAY AFTER RECEIPT BY THE CONTRACTOR TO ARCHITECT/ENGINEER AND THE CONSTRUCTION CODE OFFICIAL DURING CONSTRUCTION. SUBMIT FINAL INSPECTION REPORT SUMMARY FOR EACH DIVISION OF WORK, CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. THAT INSPECTIONS WERE PERFORMED AND THAT WORK WAS PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- 23. THE OWNER SHALL ENGAGE A TESTING AGENCY TO PROVIDE TESTING SERVICES AS INDICATED IN EACH
- SECTION OF THESE GENERAL NOTES. 24. ALL MATERIALS SHALL BE STORED TO PROTECT THEM FROM EXPOSURE TO THE ELEMENTS.

#### 2.0 EARTHWORK

- ENGINEERED (CONTROLLED COMPACTED) FILL WITHIN THE BUILDING AREA SHALL BE CONSTRUCTED PRIOR TO FOOTING (OR PILE CAP) EXCAVATION. SEE SPECIFICATIONS FOR REQUIREMENTS OF CONTROLLED COMPACTED
- 2. EXCAVATION SHALL BE PERFORMED SO AS NOT TO DISTURB EXISTING ADJACENT BUILDINGS, STREETS, AND UTILITY LINES. VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. HAND EXCAVATE AROUND UTILITIES AS REQUIRED.
- 3. SATISFACTORY FILL MATERIALS ARE THOSE COMPLYING WITH ASTM D2487, GROUPS GW. GP. GM. SM. SW. AND SP. ON SITE BORROW MATERIAL SHALL BE TESTED TO DETERMINE SUITABILITY FOR USE AS FILL
- 4. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DENSITY OF MODIFIED PROCTOR (ASTM D1557): UNDER BUILDING FOUNDATIONS - 98%
- UNDER BUILDING SLABS, STEPS, PAVEMENTS 95% REMOVE EXISTING VEGETATION, TOPSOIL, AND UNSATISFACTORY SOIL MATERIALS. PROOF ROLL SUBGRADE TO OBTAIN UNIFORMLY DENSIFIED SUBSTRATA PRIOR TO PLACING FILL MATERIAL EVENLY IN 8" THICK (MAXIMUM) LAYERS AND COMPACTING TO REQUIRED DENSITY.
- 6. THE OWNER SHALL RETAIN THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER, SUBJECT TO THE APPROVAL OF THE ARCHITECT, TO PERFORM SOIL TESTING AND INSPECTION. THE ENGINEER SHALL INSPECT THE SUBGRADE TO VERIFY BEARING LEVELS AND ENSURE THAT THE SAFE BEARING CAPACITY MEETS OR EXCEEDS THE DESIGN VALUE INDICATED BELOW. REPORTS SHALL BE SUBMITTED TO THE ARCHITECT
- OUTLINING THE WORK PERFORMED AND TEST RESULTS. BACKFILL SHALL BE BROUGHT UP SIMULTANEOUSLY ON EACH SIDE OF WALLS AND GRADE BEAMS, WITH A GRADE DIFFERENCE NOT TO EXCEED 2'-0" AT ANY TIME.

#### 3.0 FOUNDATIONS

- 1. FOOTINGS SHALL BEAR ON UNDISTURBED STRATUM OR ENGINEERED FILL WITH A MINIMUM BEARING CAPACITY OF 3000 PSF.
- PRIOR TO FOOTING CONCRETE PLACEMENT. THE FOOTING SUBGRADE SHALL BE APPROVED BY THE INSPECTING GEOTECHNICAL ENGINEER. IF CONDITIONS PROVE TO BE UNACCEPTABLE AT ELEVATIONS SHOWN, FOOTING BOTTOMS SHALL BE LOWERED TO ACCEPTABLE SUBGRADE MATERIAL. FILL OVER-EXCAVATION WITH LEAN CONCRETE (2,500 PSI).
- 3. THE BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-0" (FROST DEPTH) BELOW FINISHED GRADE, OR AS REQUIRED BY LOCAL BUILDING CODES.
- 4. SLABS ON GRADE SHALL BEAR ON MECHANICALLY COMPACTED SOIL CAPABLE OF SUPPORTING 150 PSF. DRAINAGE FILL UNDER SLABS SHALL BE COMPACTED GRAVEL OR CRUSHED STONE.
- 5. CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY THE SUBGRADE IS APPROVED BY THE GEOTECHNICAL ENGINEER.
- 6. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL
- ENGINEER'S APPROVAL THE CONTRACTOR SHALL OBSERVE WATER CONDITIONS AT THE SITE AND TAKE THE NECESSARY

PRIOR TO PLACEMENT OF THE CONCRETE AS PER NJUCC BULLETIN NO. 02-2.

PRECAUTIONS TO ENSURE THAT THE FOUNDATION EXCAVATIONS REMAIN DRY DURING CONSTRUCTION. ANY SHEETING OR SHORING REQUIRED FOR DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE NEED TO USE FOUNDATION REBAR AS A GROUNDING ELECTRODE SYSTEM AND SHALL BE RESPONSIBLE FOR INSTALLING THE BONDING CLAMP

- 4.0 CAST-IN-PLACE CONCRETE
- 1. CONCRETE SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI-318-05), AND CONSTRUCTED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE.
- 2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE 28 DAY STRENGTH AS FOLLOWS

F'C (PSI) FOOTINGS 4000 WALLS 4000 SLAB-ON-GRADE 4000

AIR ENTRAINMENT 4% TO 6% IN ALL EXPOSED CONCRETE

CONCRETE FOR SLAB-ON-DECK SHALL HAVE A MINIMUM COMPRESSIVE 28-DAY STRENGTH OF 4,000 PSI MAXIMUM WATER/CEMENT RATIOS:

- A. FOUNDATIONS B. INTERIOR SLABS 0.47
- C. EXTERIOR SLABS 4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144 PCF +) WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2" FOR FOOTINGS AND 3/4" FOR WALLS 9. ALL BOLTED CONNECTIONS ON WIND BRACING MEMBERS AND COLUMNS SHALL BE SLIP CRITICAL AND SLABS, CONFORMING TO ASTM C33.
- REINFORCING STEEL: ASTM A615 GRADE 60.

WELDED WIRE REINFORCEMENT: (WWR) ASTM A-185.

- LEVELING GROUT SHALL BE NON-SHRINK, NON-METALLIC TYPE, FACTORY PRE-MIXED GROUT IN ACCORDANCE WITH CE-CRD-C621 OR ASTM C109, WITH A MINIMUM COMPRESSIVE 28-DAY STRENGTH OF
- 5,000 PSI. 8. REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3".
  - B. CONCRETE EXPOSED TO EARTH OR WEATHER #6 BARS AND LARGER
  - 1-1/2" #5 BARS AND SMALLER C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS
  - #11 BARS AND SMALLER BEAMS AND COLUMNS
- PRIMARY REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS 1-1/2".
- SUBMIT TO ARCHITECT/ENGINEER REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL AND MIX DESIGNS FOR REVIEW PRIOR TO PLACING ANY CONCRETE. 10. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED,
- ADDITIONAL BARS, STIRRUPS OR CHAIRS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS. 11. LAP WELDED WIRE REINFORCEMENT TWO (2) FULL WIRE SPACES AT SPLICES AND WIRE TOGETHER.
- 12. PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IN CONTACT WITH THE BOLSTERS OR CHAIRS IS EXPOSED. 13. PLACING OF CONCRETE SHALL NOT START UNTIL THE PLACEMENT OF REINFORCING HAS BEEN APPROVED
- BY THE INSPECTION AGENCY. 14. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE APPROVED SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ETC. AS REQUIRED
- FOR MECHANICAL TRADES BEFORE CONCRETE IS PLACED. 15. PIPES OR CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 THE SLAB THICKNESS AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN SLABS WITHIN 12 INCHES OF COLUMN FACE OR FACE OF BEARING WALL. NO CONDUITS MAY BE PLACED IN EXTERIOR SLABS
- OR SLABS SUBJECTED TO FLUIDS. 16. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE STRUCTURAL ENGINEER, A CONCRETE POUR SCHEDULE SHOWING LOCATION OF ALL PROPOSED CONSTRUCTION JOINTS
- 17. CONCRETE SHALL NOT BE PUMPED THROUGH ALUMINUM PIPES AND SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM FORMS, MIXING DRUMS, BUGGIES, CHUTES, CONVEYORS OR OTHER EQUIPMENT MADE OF
- ALUMINUM. 18. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. DRILLED OR POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE STRUCTURAL ENGINEER THAT 27. FIELD TEST BOLTED CONNECTIONS AND SHEAR STUDS IN ACCORDANCE WITH AISC THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE
- 19. CHAMFER ALL EXPOSED CONCRETE CORNERS UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS. 20. THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL WITHIN TOLERANCE. TO THE ELEVATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO FORMWORK. METAL DECK. AND FRAMING DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION. THE CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 5/8" AVERAGE THICKNESS FOR ADDITIONAL CONCRETE DURING PLACEMENT FOR ALL SLABS SUPPORTED AND FORMED ON STEEL DECK OVER THE ENTIRE FLOOR AREA. THE CONTRACTOR SHALL PROVIDE THE MEANS BY WHICH THE MAXIMUM AND MINIMUM 32. ALL CONNECTIONS SHALL BE SYMMETRICAL ABOUT THE AXIS OF THE MEMBER CONNECTED. PROVIDE CONCRETE SLAB THICKNESS CAN BE MONITORED AND VERIFIED DURING AND AFTER THE PLACING AND
- FINISHING OPERATIONS. 21. EARLY DRYING OUT OF CONCRETE, ESPECIALLY DURING THE FIRST 24 HOURS, SHALL BE CAREFULLY GUARDED AGAINST. ALL SURFACES SHALL BE MOIST CURED OR PROTECTED USING A MEMBRANE CURING AGENT APPLIED AS SOON AS FORMS ARE REMOVED. IF MEMBRANE CURING AGENT IS USED, EXERCISE CARE NOT TO DAMAGE COATING.
- 22. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI-306. HOT WEATHER CONCRETING SHALL
- BE IN ACCORDANCE WITH ACI-305R. 23. THROUGHOUT CONSTRUCTION, THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING, CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW,
- EXCESSIVE HEAT. AND FREEZING TEMPERATURES. 24. PREPARE CONCRETE TEST CYLINDERS FROM EACH DAY'S POUR. CYLINDERS SHALL BE PROPERLY CURED
- AND STORED. SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172. 25. RETAIN LABORATORY TO PROVIDE TESTING SERVICE. SLUMP PER ASTM C143L AIR CONTENT PER ASTM C231 OR C173. CYLINDER TESTS PER ASTM C31 AND C39. ONE SET OF SIX (6) CYLINDERS FOR EACH 50

CUBIC YARDS FOR EACH MIX USED. REPORTS OF ALL TESTS TO BE SUBMITTED TO THE ARCHITECT

#### 5.0 CONCRETE MASONARY UNITS (CMU)

EQUAL TO 2000 PSI.

- 1. ALL CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90, GRADE N-TYPE I WITH MINIMUM COMPRESSIVE STRENGTH OF UNITS = 1900 PSI ON NET AREA. WITH ASSUMED DESIGN COMPRESSIVE STRENGTH, I'm=1500 PSI. FABRICATE UNITS WITH LIGHTWEIGHT AGGREGATE 3. JOISTS TO BE WELDED TO SUPPORTS, U.N.O.
- (C331). 2. ALL UNITS SHALL BE PLACED IN FLEMISH BOND.
- MORTAR SHALL BE TYPE M OR S. MORTAR SHALL MEET ASTM C270. 4. GROUT SHALL COMPLY WITH ASTM C476. SLUMP SHALL BE 8 TO 11 INCHES, STRENGTH SHALL BE
- 5. STORE ALL UNITS OFF GROUND TO PREVENT CONTAMINATION. COVER MATERIALS TO PROTECT FROM THE ELEMENTS. 6. NO AIR-ENTRAINING ADMIXTURES OR ANTIFREEZE COMPOUNDS, SUCH AS CALCIUM CHLORIDE SHALL BE
- ADDED TO MORTAR. 7. ALL PILASTERS SUPPORTING STEEL BEAMS SHALL BE GROUTED SOLID FOR ENTIRE HEIGHT.
- 8. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL MORTAR HAS ATTAINED MAXIMUM STRENGTH. WHERE BACKFILL IS PLACED AGAINST FOUNDATION WALLS BEFORE FLOOR
- CONSTRUCTION IS IN PLACE, PROVIDE TEMPORARY BRACING. 9. THE FIRST BLOCK COURSE ON FOOTING SHALL BE FILLED SOLID WITH CONCRETE, UNLESS OTHERWISE NOTED ON DRAWINGS.
- 10. VERTICAL CONTROL JOINTS SHALL BE PLACED SUCH THAT THE RATIO OF JOINT SPACING (L) DIVIDED BY WALL HEIGHT (H) DOES NOT EXCEED 3.0. IN NO CASE SHALL SPACING EXCEED 50 FT. CONTROL JOINTS SHALL BE CONSTRUCTED USING SASH BLOCKS AND DUR-O-WAL PREFORMED REGULAR RAPID CONTROL JOINT (OR EQUAL OF EXTRUDED RUBBER.) WALL REINFORCING SHALL BE DISCONTINUOUS AT JOINTS. VERTICAL JOINTS SHALL BE LOCATED AS FOLLOWS:
- A) CHANGES IN WALL HEIGHT OR THICKNESS. B) AT CONSTRUCTION JOINTS IN FOUNDATION, IN ROOF, AND IN FLOORS.
- C) AT CHASES AND RECESSES FOR PIPING, COLUMNS, FIXTURES, ETC. D) AT ABUTMENT OF WALL AND COLUMNS.
- E) AT RETURN ANGLES IN "L", "T" AND "U" SHAPED STRUCTURES. F) AT ONE OR BOTH SIDES OF WALL OPENING.
- 11. CMU WALLS SHALL BE REINFORCED WITH TRUSS TYPE REINFORCING OF 9 GAGE ASTM A82 WIRE, GALVANIZED, AT 16" ON CENTER (VERTICALLY), AND AT THE FIRST AND SECOND BED JOINTS ABOVE AND BELOW WALL OPENINGS.

#### 6.0 STRUCTURAL STEEL

- 1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE "STEEL CONSTRUCTION MANUAL". THIRTEENTH EDITION, 2005, AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AND AISC CODE OF STANDARD PRACTICE EXCEPT SECTIONS 4.2 AND 7.9 WHICH SHALL NOT BE APPLICABLE TO THIS PROJECT.
- 2. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO "STRUCTURAL WELDING CODE ANSI/AWS D1.1-92", AMERICAN WELDING SOCIETY.
- 3. WIDE FLANGE SHAPES: ASTM A992 OR A572, GRADE 50. 4. STRUCTURAL SHAPES & PLATES: ASTM A36, A572 OR A992. 5. STEEL PIPE: ASTM A500, GRADE B.

STRUCTURAL SHAPES AND RODS

- ASTM A500, GRADE B 6. STEEL TUBING (SQUARE OR RECT.): (ROUND): ASTM A501 7. GALVANIZED STRUCTURAL STEEL:
- BOLTS, FASTENERS AND HARDWARE ASTM A153. 8. ALL BOLTED CONNECTIONS SHALL BE WITH ASTM A325 HIGH STRENGTH BOLTS 3/4" MINIMUM DIAMETER, UNLESS NOTED OTHERWISE.

ASTM A123.

- 10. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55, UNLESS NOTED OTHERWISE. 11. WELDING ELECTRODES SHALL BE E70XX FOR MANUAL ARC WELDING AND F7X-EXXX FOR SUBMERGED ARC WELDING. ALL WELDERS SHALL BE CERTIFIED BY THE AWS. MINIMUM WELD SIZE SHALL BE 3/16" UNLESS NOTED OTHERWISE.
- 12. WELDING OF REINFORCING BARS TO OTHER BARS OR STRUCTURAL STEEL: E90-XX ELECTRODE. 13. CUTS. HOLES. COPING. ETC. REQUIRED FOR OTHER TRADES OR FIELD CONDITIONS SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTTING OR BURNING OF MAIN STRUCTURAL MEMBERS
- IN THE FIELD WILL NOT BE PERMITTED. 14. SUBMIT SHOP DRAWINGS FOR FABRICATION AND ERECTION OF STRUCTURAL STEEL. CLEARLY INDICATE COORDINATED DIMENSIONS OF MECHANICAL UNIT AND ROOF PENETRATION SIZES. SHOP AND ERECTION DRAWINGS MUST SHOW ALL SHOP/FLOOR AND FIELD WELDS. INITIAL SHOP DRAWING SUBMITTAL SHALL INCLUDE PROPOSED CONNECTION DETAILS AND JOB STANDARDS. PROVIDE SIGNED AND SEALED
- CALCULATIONS FOR ALL NON-STANDARD CONNECTION DETAILS SHOWING DESIGN CAPACITIES. 15. STEEL MEMBERS SHOWN ON PLAN SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE. 16. THE GENERAL CONTRACTOR AND STEEL ERECTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD
- CORRECTIONS ARE MADE. 17. ALTERNATE CONNECTION DETAILS MAY BE USED IF SUCH DETAILS ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL, HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTANCE AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE DETAILS SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS WHICH HE
- **PROPOSES** 18. ALL STEEL SHALL BE PAINTED WITH SHOP STANDARD PRIMER UNLESS NOTED OTHERWISE. 19. STEEL ANGLES AND PLATES ALONG WITH BOLTS AND WASHERS. IN DIRECT CONTACT WITH EXTERIOR FINISH MASONRY, AND ALL EXTERIOR EXPOSED STRUCTURAL STEEL, SHALL BE HOT-DIPPED GALVANIZED.
- 20. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT—DIPPED GALVANIZED PER ASTM A123. 21. SPANDRELS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE ADJUSTABLE MASONRY TIES. 22. FIELD WELDED SURFACES WITHIN FOUR (4) INCHES OF WELD SHALL BE CLEANED AND GROUND SMOOTH. AFTER WELDING COAT THE EXPOSED AREA WITH APPROPRIATE PRIMER/PAINTS AS SPECIFIED. 23. THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON
- DIAPHRAGM ACTION OF THE METAL (ROOF/FLOOR) DECK AND ATTACHMENT TO THE MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING THIS SUPPORT. 24. VISUALLY INSPECT ALL FILLET WELDS. 10% OF ALL FIELD FILLET WELDS IN PRIMARY CONNECTIONS AND
- MULTI-PASS WELDS SHALL BE TESTED BY THE MAGNETIC PARTICLE METHOD, COMPLYING WITH E109, PERFORMED ON THE ROOT PASS AND ON THE FINISHED WELD. 25. 100% OF FULL PENETRATION WELDS SHALL HAVE ULTRASONIC INSPECTION, COMPLYING WITH ASTM
- 26. 100% OF WELDS IN BEAM AND COLUMN MOMENT CONNECTIONS SHALL HAVE ULTRASONIC INSPECTION, COMPLYING WITH ASTM E164.
- 28. DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED—ON FIREPROOFING OR CONCRETE ENCASEMENT 29. ALL STEEL SHALL BE THOROUGHLY CLEANED BY POWER TOOL CLEANING PRIOR TO PAINTING. ALL
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL BE CLEANED WITH COMMERCIAL BLAST CLEANING. 30. ALL DISSIMILAR METALS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND/OR CORROSIVE EFFECTS.
- 31. GUSSET PLATE CONNECTIONS SHALL BE SIZED FOR 100% OF THE AXIAL FORCES INDICATED ON THE ELEVATIONS. DESIGN ALL GUSSET PLATES AND CONNECTORS AS REQUIRED FOR COMPLIANCE WITH AISC.
- PROVIDE STIFFENER PLATES AS REQUIRED AT THE GUSSET PLATE CONNECTIONS ONLY ONE GRADE OF BOLT FOR EACH BOLT DIAMETER TO BE USED IN THE CONNECTIONS. DO NOT MIX
- GRADE OF BOLTS. 33. THE CONTRACTOR SHALL PREPARE A WRITTEN ERECTION PLAN & CALCULATIONS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW. THIS PLAN IS TO INDICATE, AS A MINIMUM, SEQUENCE OF ERECTION OPERATIONS, CALCULATIONS INDICATING ERECTION STRESSES, FIELD SPLICE LOCATIONS. FIELD SPLICE DETAILS, AND LOCATION OF TEMPORARY SHORING, SCAFFOLDING, BRACING, ETC. THE STRESSES CAUSED DURING ERECTION AND HANDLING SHALL NOT EXCEED ALLOWABLE MEMBER STRESSES. THE ERECTION PLAN AND CALCULATIONS SHALL BE PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE PROJECT'S JURISDICTION.

#### 7.0 STEEL JOIST

- DESIGN OF JOISTS SHALL BE BY MANUFACTURER'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION FOR ALL LOADINGS REQUIRED BY THESE DOCUMENTS AND IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS. ALL SUBMISSIONS SHALL BEAR THIS ENGINEER'S SEAL AND SIGNATURE. ALL OPEN WEB
- JOISTS SHALL CONFORM TO THE "STANDARD SPECIFICATIONS AND LOAD TABLES FOR OPEN WEB STEEL JOISTS" OF THE STEEL JOIST INSTITUTE. 2. ATTACH JOISTS ON COLUMN LINES WITH ERECTION BOLTS AND WELD AFTER PLUMBING AND ALIGNING. ATTACH ALL OTHER JOISTS TO STEEL BY WELDING. PROVIDE ANGLE EXTENSIONS AT BOTTOM CHORD OF JOISTS FRAMING INTO COLUMNS AND GIRDERS AS REQUIRED BY OSHA.
- 4. BRIDGING SHALL BE WELDED OR BOLTED AND ANCHORED AT END WALLS OR BEAMS. ALL BRIDGING, BRIDGING ANCHORS, AND JOIST CONNECTIONS SHALL BE COMPLETELY INSTALLED PRIOR TO THE
- APPLICATION OF ANY CONSTRUCTION LOADS. 5. FOR ROOF JOISTS RESISTING NET WIND UPLIFT, PROVIDE BRIDGING AT THE FIRST PANEL POINT FROM SUPPORTS. PROVIDE ADDITIONAL BRIDGING AS REQUIRED BY THE JOIST MANUFACTURER.
- 6. INSPECT JOIST INSTALLATION IN ACCORDANCE WITH AISC. NO LOAD EXCEEDING 150 POUNDS SHALL BE HUNG FROM THE JOISTS UNLESS THE LOAD IS APPLIED WITHIN 6 INCHES FROM A PANEL POINT OR THE JOIST IS PROPERLY STRENGTHENED. ALL COSTS ASSOCIATED WITH STRENGTHENING THE JOISTS FOR CONCENTRATED LOADS SHALL BE INCLUDED IN THE SUBCONTRACTOR'S BID FOR THE WORK.

#### 8.0 INSPECTION, TESTS AND REPORTS

- 1. MATERIALS, ASSEMBLIES, METHODS OF CONSTRUCTION AND EQUIPMENT LISTED BELOW SHALL BE INSPECTED OR TESTED TO VERIFY COMPLIANCE WITH CODE REQUIREMENTS UNDER THE PROVISIONS OF SPECIAL INSPECTIONS.
- 2. PROVIDE RECESSES AS REQUIRED FOR FLOOR FINISHES, SADDLES, ETC. AND AS INDICATED ON THE PLANS.
- 3. LIST OF MATERIALS, ASSEMBLIES, METHODS OF CONSTRUCTION AND EQUIPMENT SUBJECT TO SPECIAL INSPECTIONS INCLUDE:
  - A. STEEL CONSTRUCTION B. STRUCTURAL STEEL - WELDING
- C. STRUCTURAL STEEL ERECTIONS & BOLTING
- D. CONCRETE CAST-IN-PLACE E. CONCRETE - TEST CYLINDERS
- F. CONCRETE DESIGN MIX G. MASONRY LEVEL 1
- H. SOILS
- I. SPRAYED FIRE-RESISTANT MATERIALS J. INTUMESCENT FIRE-RESISTANT COATINGS
- K. CURTAIN WALL SYSTEM 4. COPIES OF ALL INSPECTION AND TEST REPORTS SHALL BE FURNISHED TO THE ENGINEER.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL WORK WHICH IS DETERMINED BY TESTING AND INSPECTION NOT TO COMPLY WITH SPECIFIED STANDARDS.

GOVERNING CODE: INTERNATIONAL BUILDING CODE 2009 2. ROOF LIVE LOAD SNOW LOAD: PG (GROUND SNOW LOAD) 25 PSF I (SNOW LOAD IMPORTANCE FACTOR) 1.0 CT (THERMAL FACTOR) 1.0 3. WIND LOAD: 100 MPH BASIC WIND SPEED I (WIND IMPORTANCE FACTOR) 1.15 WIND EXPOSURE COMPONENTS & CLADDING WIND PRESSURE: PER CODE EARTHQUAKE DESIGN DATA: 0.204a

0.061q

## <u>TYPICAL ABBREVIATIONS</u>

CONCRETE MASONRY UNIT(S) CMU DWG DRAWING(S) HSS HOLLOW STEEL SECTION POUNDS PER SQUARE FOOT **TYPICAL** C/C CENTER TO CENTER PROPERTY LINE T.O.S. TOP OF STEEL

SEISMIC DESIGN CATEGORY

#### LEGEND

SECTION (S), ELEVATION (E), OR DETAIL (D), VIEW INDICATOR SECTION, ELEVATION, OR DETAIL VIEW IDENTIFICATION. SECTION, ELEVATION, OR DETAIL TITLE 

DRAWING NUMBER WHERE VIEW IS

TAKEN, DASH (-) INDICATES VIEW IS TAKEN ON THE SAME DRAWING.

ISSUE REVISIONS

REVISIONS

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103

215 985 4410 fax 985 4430

CITY OF PHILADELPHIA

DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING

21ST STREET & CECIL B. MOORE AVENUE

PHILADELPHIA

MARTIN LUTHER KING OLDER ADULT CENTER

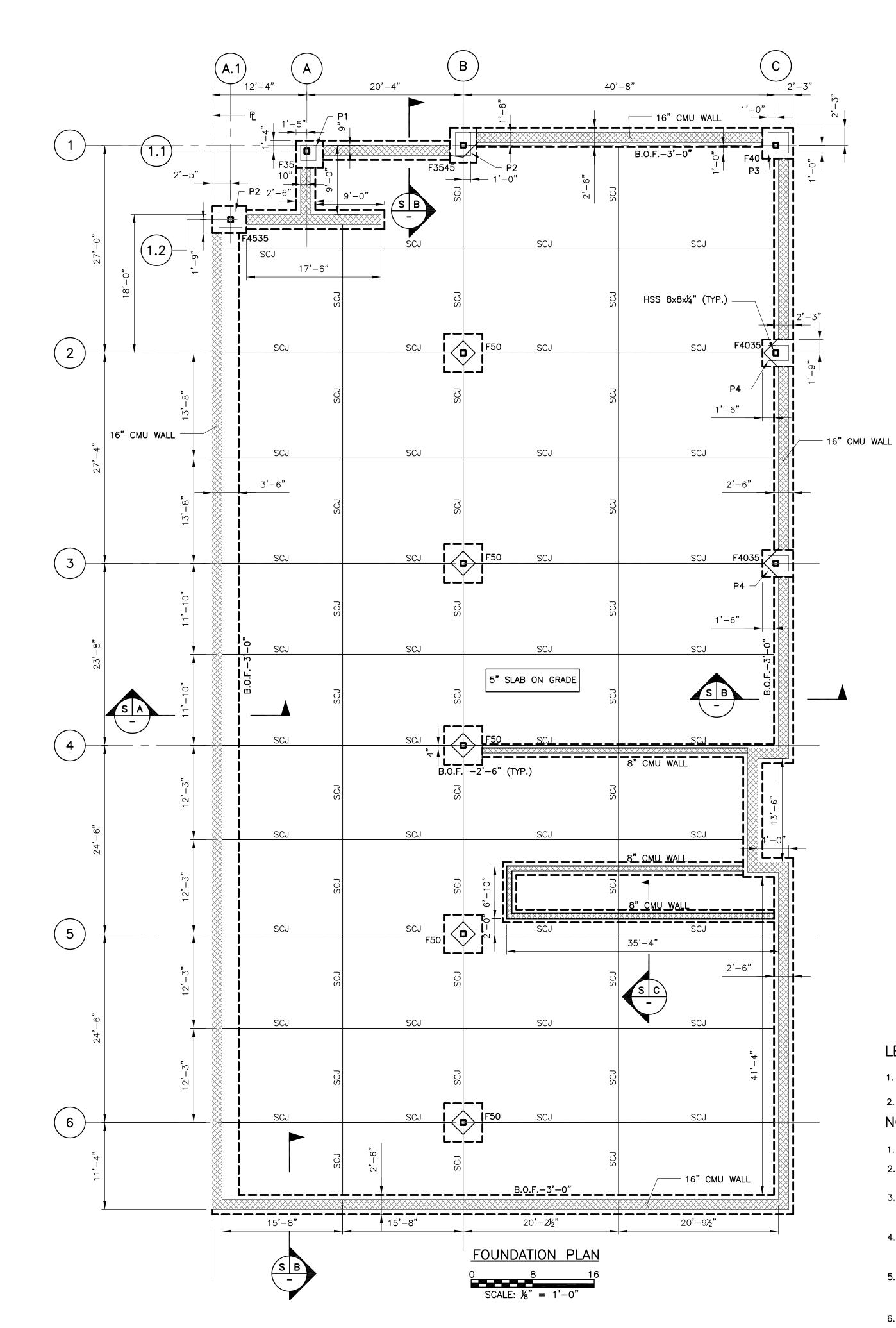
PHILADELPHIA, PA 19121

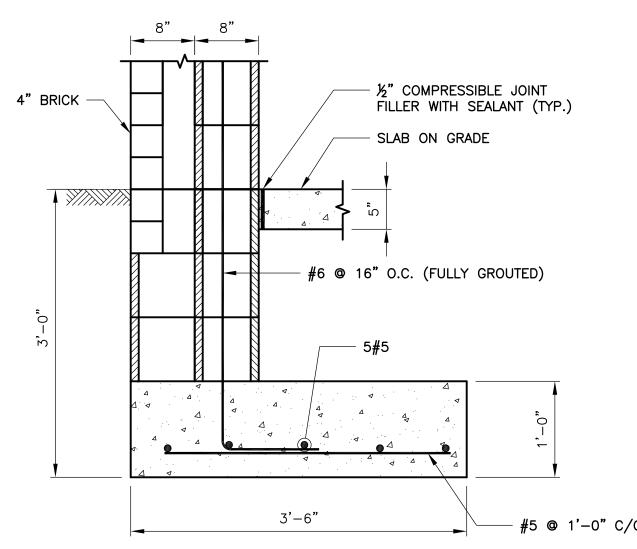
DRAWING TITLE GENERAL NOTES

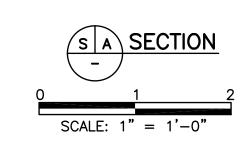
PROJECT NO. DRAWING NO. 20-11-4199-99 7-2-2015

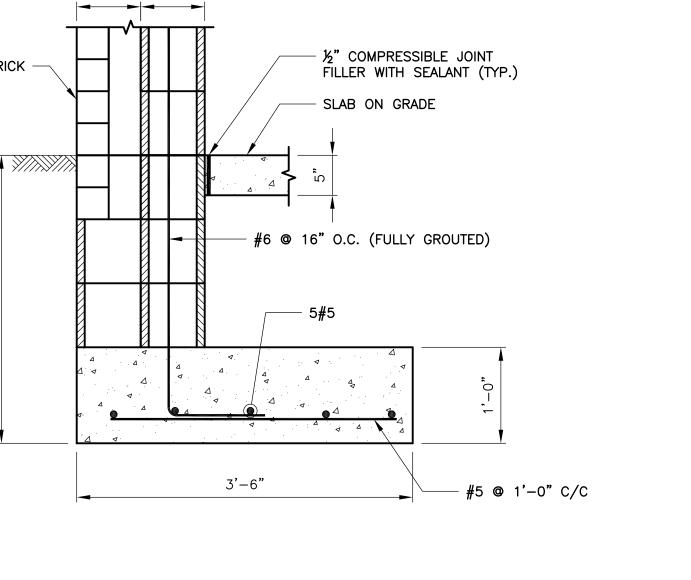
AS NOTED

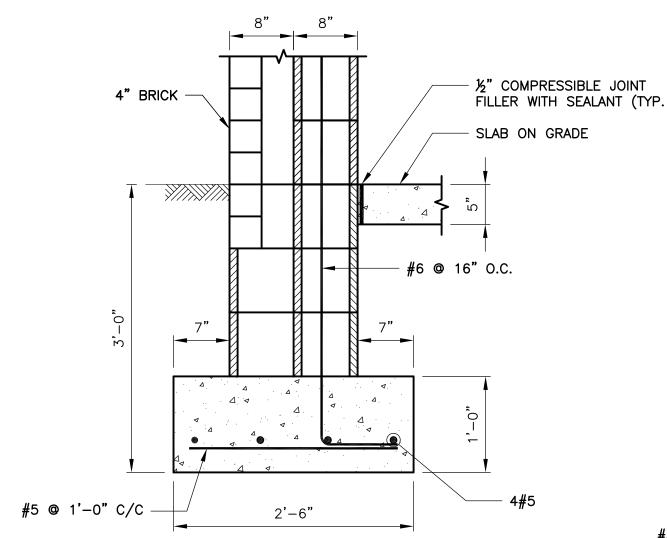
M.PATEL CHECKED BY S.CHOUDHARY

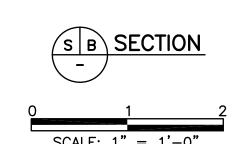












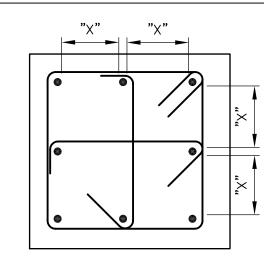


MARK	SIZE/WIDTH	DEPTH	REINFORCING
F35	3'-6"x3'-6"	1'-0"	(4) #5 EACH WAY, BOTTOM
F3545	3'-6"x4'-6"	1'-4"	(5) #5 EACH WAY, BOTTOM
F40	4'-0"x4'-0"	1'-4	(5) #5 EACH WAY, BOTTOM
F4035	4'-0"x3'-6"	1'-6"	(6) #5 EACH WAY, BOTTOM
F4535	4'-6"x3'-6"	1'-6"	(6) #5 EACH WAY, BOTTOM
F50	5'-0"x5'-0"	1'-6"	(6) #5 EACH WAY, BOTTOM

#5 @ 1'-0" C/C —

## CONC PIER SCHEDULE

MARK	SIZE/WIDTH	VERT. REINF.	TIE
P1	2'-0"x2'-0"	8-#5	#4@12
P2	2'-0"x3'-0"	10-#6	#4@12
P3	2'-8"x2'-8"	12-#6	#4@12
P4	2'-8"x2'-0"	10-#6	#4@12



#### PIER DETAIL

COLUMN	& PIER TII	E SPACING
VERTICAL BAR SIZE	SPACING (C-C)	
<b>#</b> 5	10"	
#6	12"	WIMUM XIMUM
#7	14"	PIER DIMENSION MAXIMUM
#8	16"	DIMENS
#9	18"	
#10	18"	LEAST COLUMN OR
#11	22"	L COLU
#14	24"	LEAS"
#18	24"	

#6 @ 24" O.C. (FULLY GROUTED)

- SLAB ON GRADE

- ½" COMPRESSIBLE JOINT FILLER WITH SEALANT (TYP.)

DESIGN DEVELOPMENT

REVISIONS

REVISIONS

ISSUE DATE

PROJECT COORDINATOR						
	MICHELLE	SHUMAN				

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430

### CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

FOUNDATION PLAN

PROJECT NO.		DRAWING NO.
20-1	1-4199-99	
DATE	7-2-2015	
SCALE	AS NOTED	
DRAWN BY	M.PATEL	
CHECKED BY	S.CHOUDHARY	

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

5. 5" SLAB ON GRADE REINFORCEMENT WITH W/6x6-W2.9xW2.9 WELDED WIRE FABRIC ON 6 MILL VAPOUR BARRIER ON 6" DRAINAGE FILL.

CMU FOUNDATION WALL

SAWCUT JOINT

FOUNDATION IS DESIGNED BASED ON SOIL BEARING CAPACITY OF 3000 PSF.

ARE IN RELATION TO THIS DATUM.

3. TOP OF SLAB ELEVATION IS DATUM ±0.00 ON

4. REFER ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS DIMENSIONS AND ADDITIONAL

PLAN. ALL ELEVATIONS SHOWN THUS (-3'-6")

1. SEE DWG S1 FOR GENERAL NOTES.

LEGEND

2. SCJ

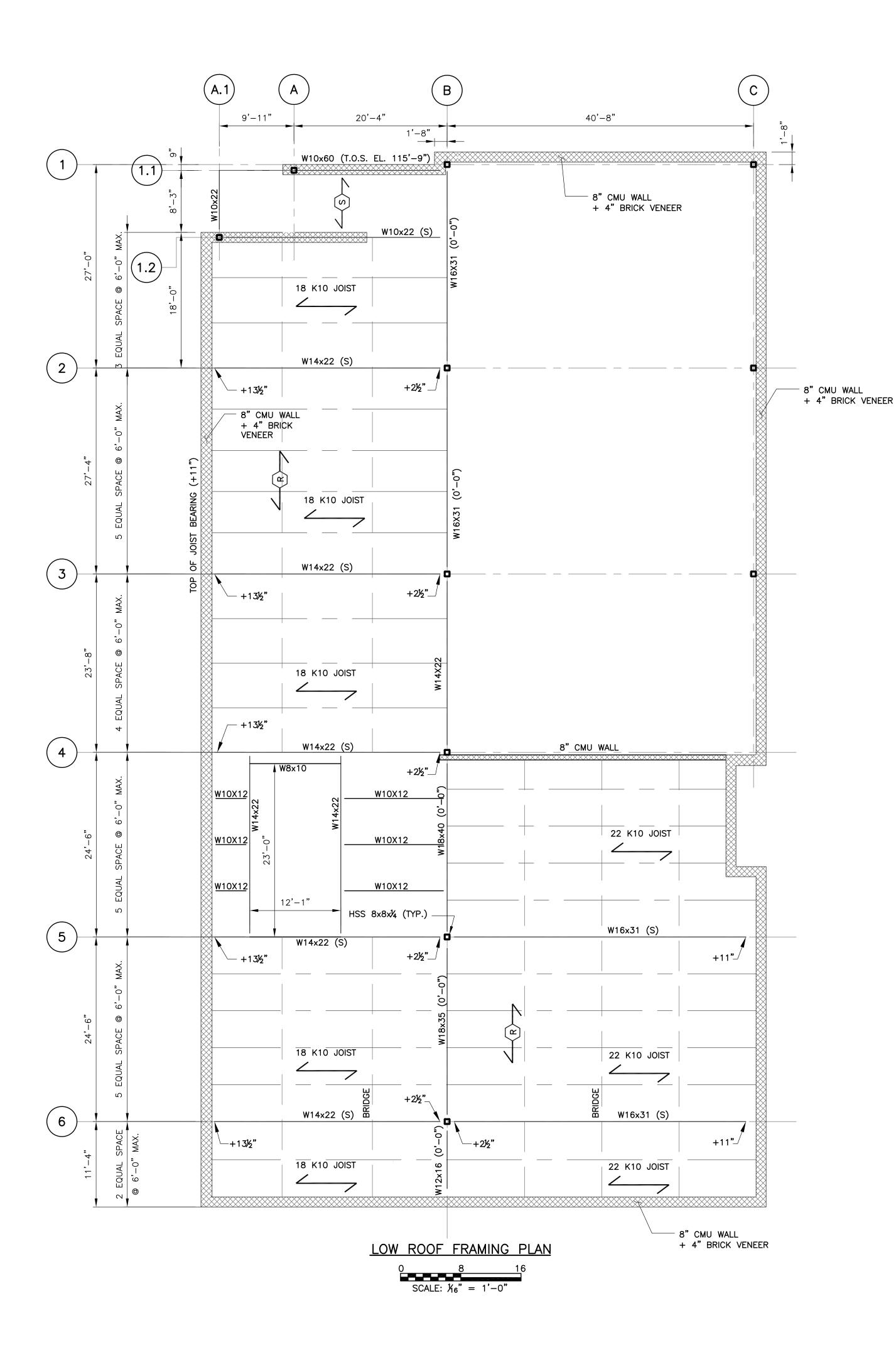
NOTES:

INFORMATION.

6. TOP OF FIRST FLOOR SLAB ELEVATION 104'-0" AS DATUM ELEVATION 0'-0".

SCJ DENOTES SAWCUT JOINT: JOINT MUST BE CUT WITHIN 12 HRS AFTER PLACEMENT OF SLAB WITH OUT CUSSING DAMAGE TO CONCRETE.

Vipul Sharma Z:\2012—1331—03\0 Jul 01, 2015 — 7:32pm



#### NOTES:

- 1. SEE DWG S1 FOR GENERAL NOTES.
- 2. MOMENT CONNECTION BEAM SHALL BE DESIGN TO SUPPORT THE LESSER OF 75% OF TOTAL (UNIFORM LOAD CAPACITY OF THE BEAM) LATERALLY SUPPORTED OR SHEAR CAPACITY OF BEAM.
- 3. STEEL FOR ROOF TOP UNIT IS CONCEPTUAL.
- 4. TOP OF STEEL DATUM (0'-0") IS ELEVATION 115'-9". ALL ELEVATIONS SHOWN THUS (-2") ARE IN RELATION TO THIS DATUM.

#### LEGEND



CMU WALL

DENOTES JOIST SPAN DIRECTION

DECK TYPE "B", 20 GAGE

S
2' UF2X DECK, 20 GAGE

---- BRIDGING

ISSUE DATE REVISIONS

REVISIONS

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA

MARTIN LUTHER KING OLDER ADULT CENTER

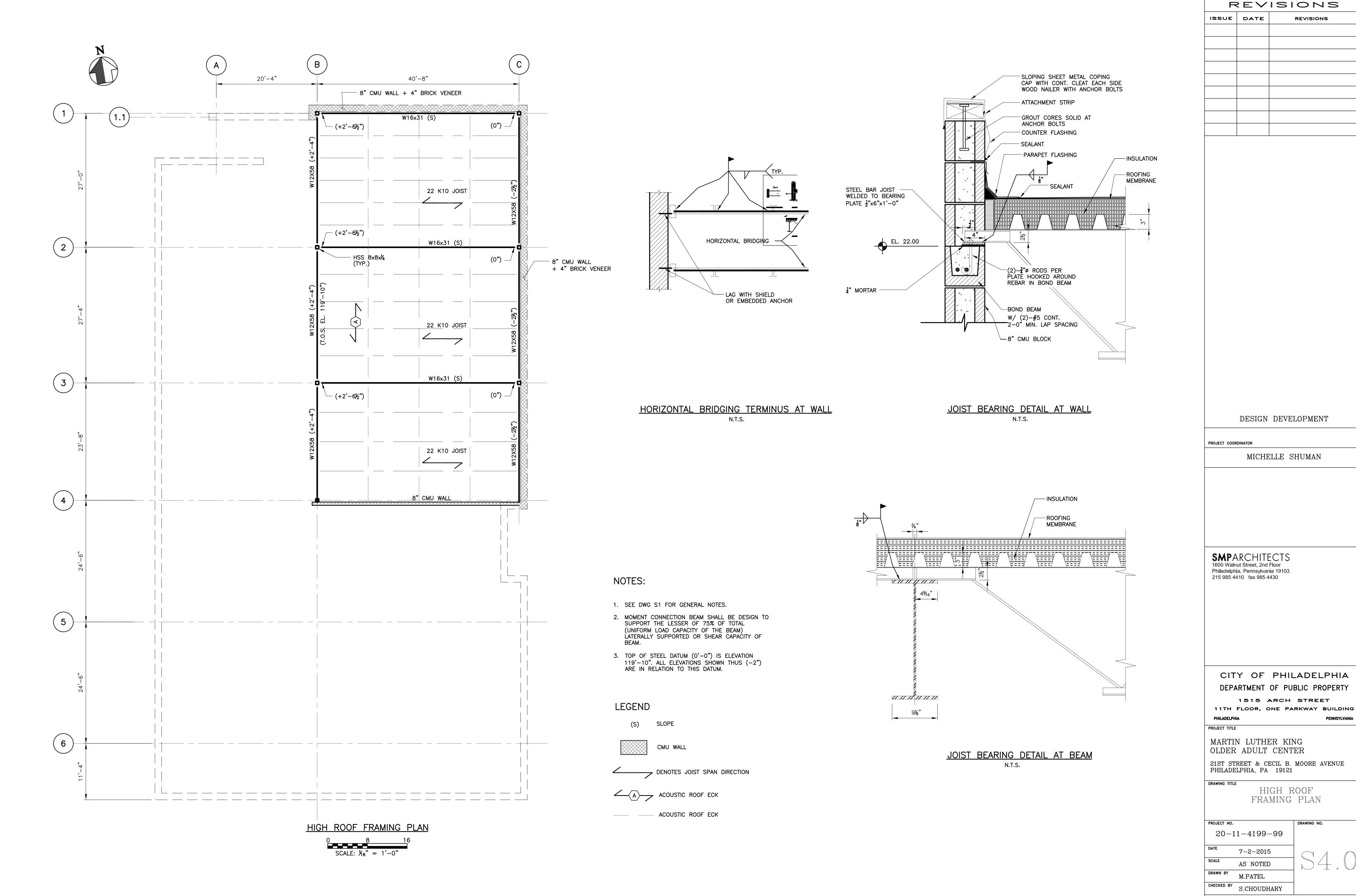
21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE LOW ROOF FRAMING PLAN

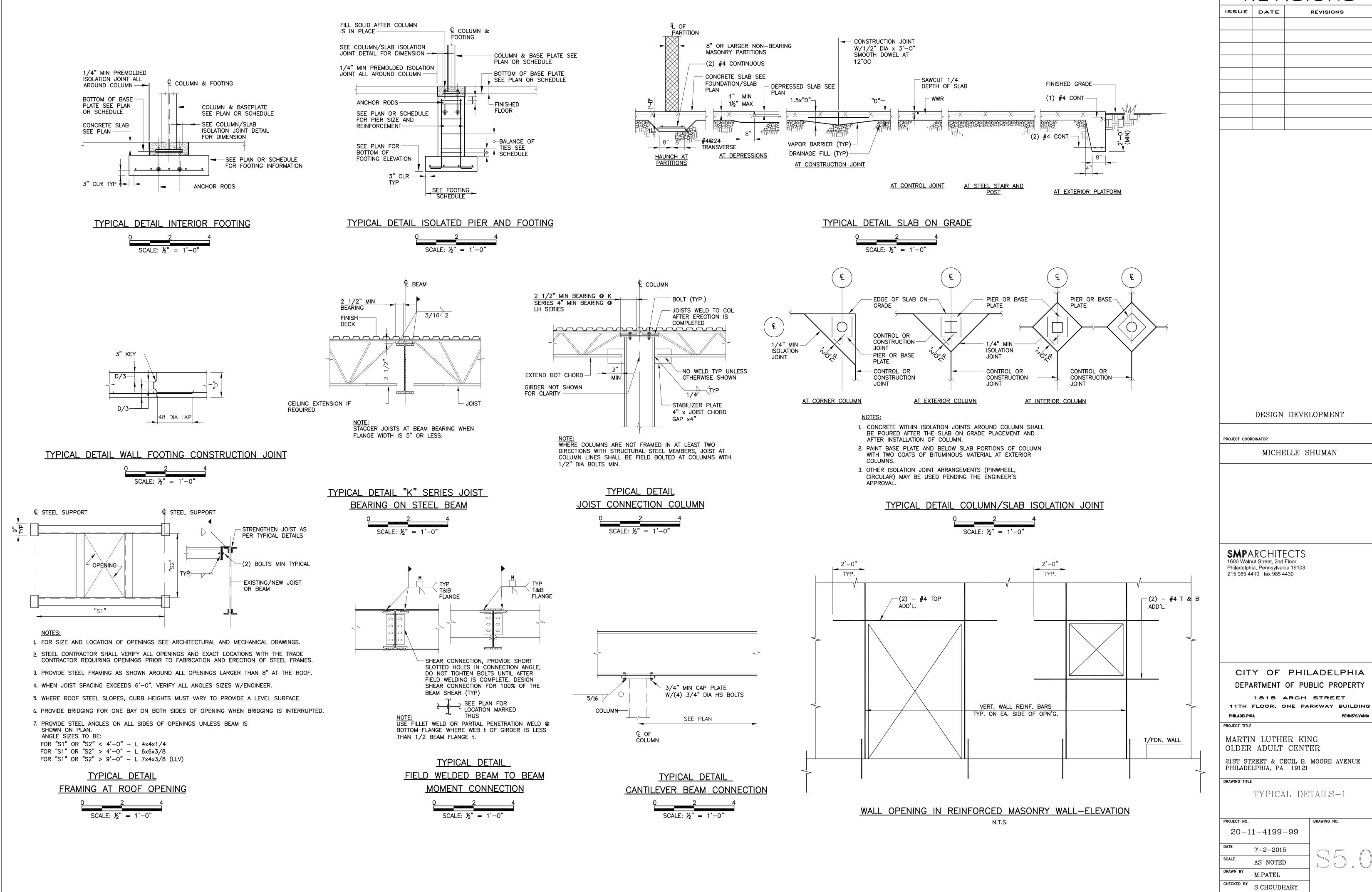
PROJECT NO. DRAWING NO. 20-11-4199-99

7-2-2015 AS NOTED DRAWN BY M.PATEL

CHECKED BY S.CHOUDHARY



CITY OF PHILADELPHIA



Vipul Z:\20 Jul 01,

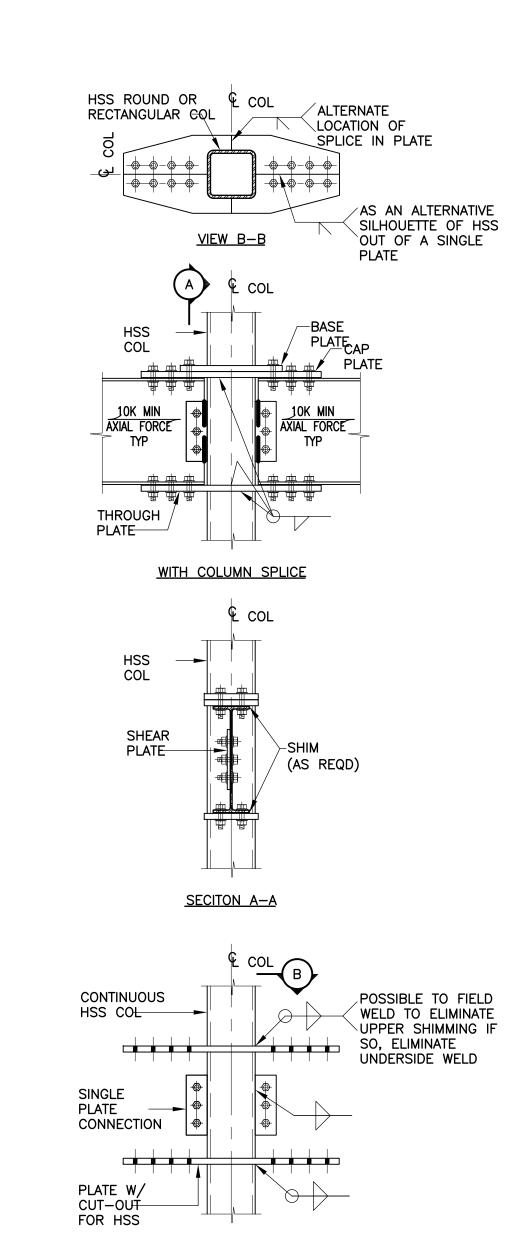
REVISIONS REVISIONS

MICHELLE SHUMAN

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

21ST STREET & CECIL B. MOORE AVENUE



NOTES:

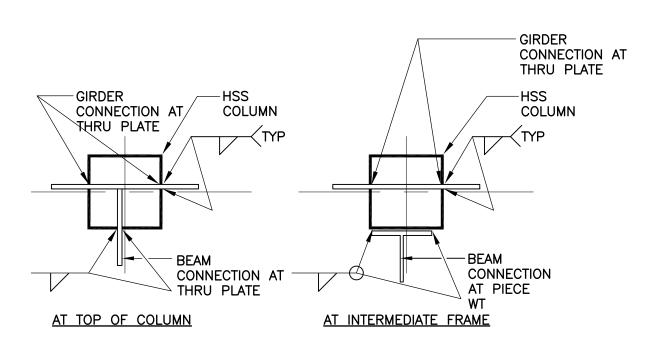
1. ALL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST AISC ASD SPECIFICATION.

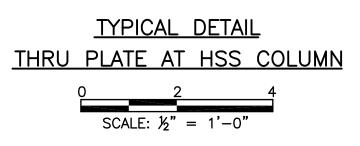
(ALTERNATE) CUT-OUT PLATE

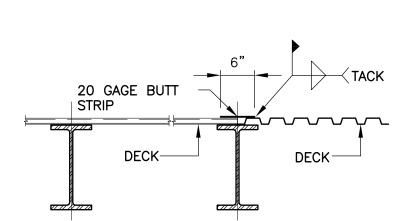
2. CONNECTIONS TO BE DETAILED FOR FULL MOMENT CAPACITY OF BEAMS, ENGINEER TO BE PROVIDED WITH DESIGN CALCULATIONS WITH SHOP DRAWINGS FOR REVIEW.

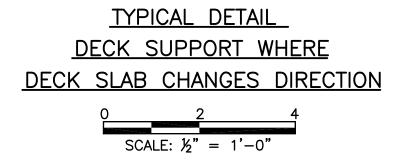
- 3. USE KNIFE PLATE CONNECTION FOR REACTIONS AS SHOWN ON PLAN FOR BEAMS CONNECTING TO HSS COLUMNS.
- 4. DETAILER SHALL SUBMIT FOR APPROVAL STANDARD CONNECTION DETAILS CONFORMING TO DETAILS SHOWN WITH ERECTION DRAWINGS.
- 5. ALL BOLTS TO BE 3/4" DIA A325-SC HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE. ALL WELDING ELECTRODES TO BE E70XX.
- 6. FOR LOCATION OF MOMENT CONNECTIONS, SEE BEAM ENDS INDICATED THUS ON PLANS. ALL OTHER CONNECTIONS RECEIVE STANDARD SHEAR CONNECTIONS.

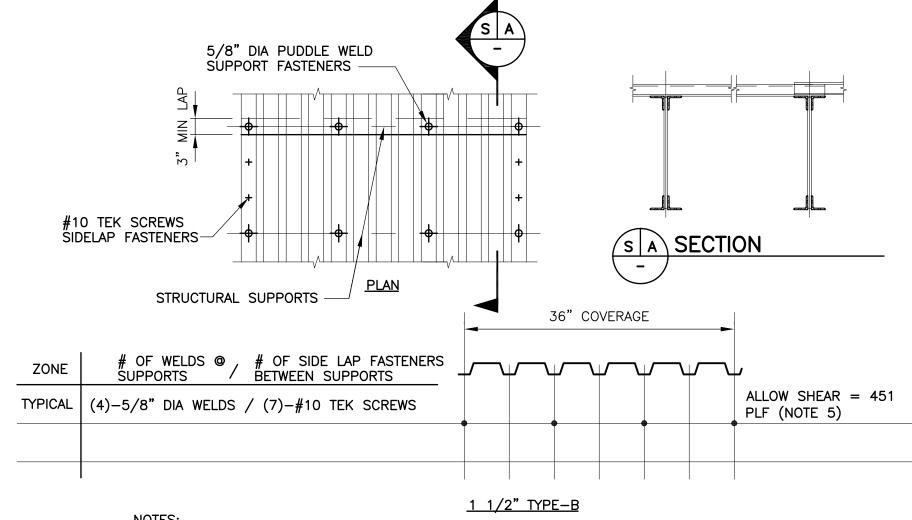
TYPICAL DETAIL THRU PLATE HSS COLUMN MOMENT CONNECTION









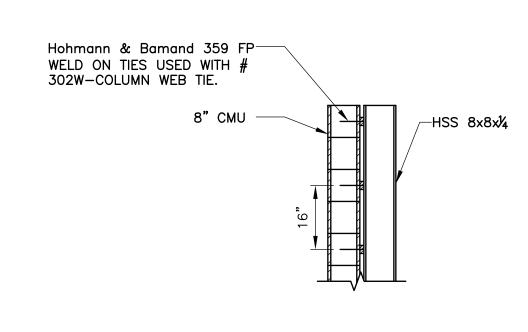


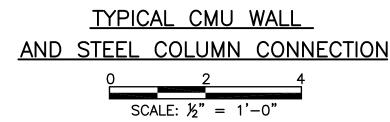
1. DECK SHALL BE ATTACHED TO ALL STRUCTURAL SUPPORTS WITH 5/8" DIA PUDDLE WELDS.

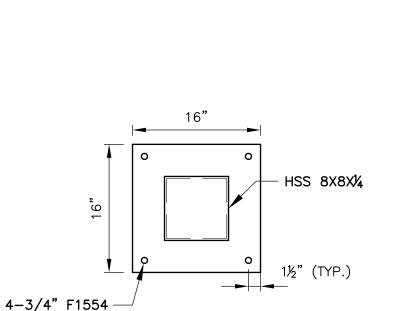
2. SIDE LAPS BETWEEN STRUCTURAL SUPPORTS SHALL BE FASTENED BY #10 TEK SCREWS. 3. DECK SHALL BE ATTACHED TO ALL PERIMETER SUPPORTS WITH 5/8" DIA PUDDLE WELDS @ 6"OC MAX

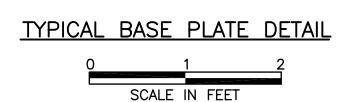
4. END LAPS SHALL BE A MINIMUM OF 3" AND SHALL OCCUR OVER SUPPORTS. 5. CAPACITY BASED ON 5'-6" DECK SPAN.

> TYPICAL DETAIL **ROOF DECK ATTACHMENT** SCHEDULE & KEY PLAN SCALE:  $\frac{1}{2}$ " = 1'-0"

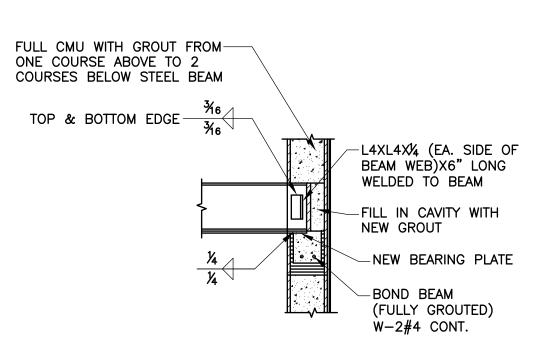


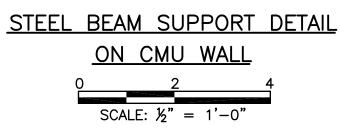


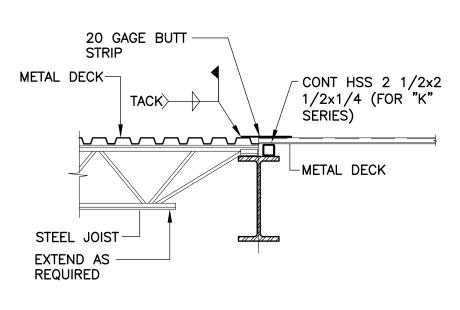




GRADE 55 ANCHOR BOLT







TYPICAL DETAIL **DECK SUPPORT WHERE DECK SLAB CHANGES DIRECTION** 

REVISIONS

REVISIONS

ISSUE DATE

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103

215 985 4410 fax 985 4430

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

TYPICAL DETAILS-1

PROJECT NO. 20-11-4199-99

> 7-2-2015 AS NOTED M.PATEL

Vipul Sharma Z:\2012-1331-03\C Jul 01, 2015 - 7:11pm

CHECKED BY S.CHOUDHARY

DRAWING NO.

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

#### GENERAL MECHANICAL NOTES

- 1. THESE NOTES APPLY TO ALL MECHANICAL (HVAC) DRAWINGS.
- 2. ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.
- 3. PROVIDE ALL TRANSITIONS AND OFFSETS AS REQUIRED AT NO COST.
- 4. FIELD VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. DO NOT SCALE DRAWINGS.
- 5. VERIFY EQUIPMENT CONNECTIONS WITH AND INSTALL PER MANUFACTURER'S DATA.6. TRANSITION AS REQUIRED TO MAKE FINAL EQUIPMENT CONNECTIONS.
- 7. COORDINATE LOCATIONS OF CEILING MOUNTED ITEMS WITH REFLECTED CEILING PLANS.
- 8. MATCH DIFFUSER, ETC. MOUNTING FRAMES WITH CEILING TYPES.
- 9. INSTALL ALL PIPING AND DUCTWORK AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED.
- 10. PROVIDE 4" HIGH CONCRETE PADS BENEATH ALL EXTERIOR GRADE MOUNTED EQUIPMENT.
- 11. COORDINATE PAD SIZES WITH EQUIPMENT. PAD SHALL BE 4" WIDER THAN EQUIPMENT, ALL SIDES.
- 12. PROVIDE ACCESS DOORS AT ALL FIRE, SMOKE AND FIRE/SMOKE DAMPERS AND DUCT DETECTORS.
- 13. PROVIDE ACCESS PANELS AS REQUIRED TO SERVICE CONCEALED EQUIPMENT, DAMPERS, VALVES, ETC.
- 14. DUCTWORK SHALL CONFORM TO ALL APPLICABLE SMACNA AND NFPA STANDARDS.
- 15. ALL 90° DUCT ELBOWS SHALL BE LONG RADIUS TYPE WHEREVER SPACE ALLOWS.

  16. ALL RECTANGULAR AND SHORT RADIUS SUPPLY DUCT FLROWS SHALL HAVE TURNING VANE
- 16. ALL RECTANGULAR AND SHORT RADIUS SUPPLY DUCT ELBOWS SHALL HAVE TURNING VANES.17. PROVIDE FLEXIBLE CONNECTIONS BETWEEN DUCTWORK AND ALL MOTOR DRIVEN EQUIPMENT.
- 18. FLEXIBLE DUCTWORK SHALL NOT BE USED.
- 19. PAINT INSIDE OF DUCTS VISIBLE THROUGH AIR DEVICES FLAT BLACK.
- 20. PROVIDE OPEN END DUCTS WITH WIRE MESH SCREEN UNLESS OTHERWISE NOTED.
- 21. PROVIDE FIRE, SMOKE AND FIRE/SMOKE DAMPERS WHERE REQUIRED WHETHER SHOWN OR NOT, AT NO COST.
- 22. FIRE SAFE ALL PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION.
- 23. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED CONSTRUCTION.
- 24. DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
- 25. LOCATE WALL SWITCHES, ETC. 48" AFF UNLESS NOTED OTHERWISE.
- 26. COORDINATE WITH ROOM FINISHES, ETC. EXISTING OR SHOWN ON ARCHITECTURAL DRAWINGS.
- 27. INSTALL ALL EQUIPMENT, DUCTS, PIPING, ETC. LEVEL AND PLUMB UNLESS OTHERWISE NOTED.28. CONCENTRATE LOADS AT BEAMS, JOISTS, ETC. PROVIDE STEEL SUPPORTS AS REQUIRED.
- 29. INSTALL ALL EQUIPMENT AT LEAST 10' FROM ROOF EDGE IF NO RAILING PRESENT.
- 30. MAINTAIN MINIMUM 10' SEPARATION BETWEEN AIR INTAKES AND EXHAUSTS, PLUMBING VENTS, FLUES, ETC.
- 31. PROVIDE BALANCING DEVICES AT ALL BRANCH TAKEOFFS WHETHER SHOWN OR NOT, AT NO COST.32. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- 33. BALANCE AIRFLOWS WITHIN +/-5% OF SCHEDULED VALUES.
- 34. BALANCING WORK SHALL CONFORM TO AABC OR NEBB STANDARDS. SUBMIT REPORT FOR REVIEW.
- 35. PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.36. REPAIR ANY DAMAGED FINISHES TO MATCH EXISTING ADJACENT.
- 37. INSTALL ALL DUCTS, PIPING, ETC. ABOVE CEILINGS, IN WALLS OR CHASES, ETC. OTHERWISE NOTED.
- 38. INSTALL ALL EXPOSED PIPING, DUCTS, ETC. PARALLEL OR AT RIGHT ANGLES TO WALLS.
- 39. COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.40. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS REQUIRED.
- 41. THESE DOCUMENTS ARE PREPARED WITH THE UNDERSTANDING THAT THE BIDDING CONTRACTOR IS EXPERT IN THE BIDDING AND CONSTRUCTION OF A PROJECT OF THIS TYPE AND HAS VISITED THE SITE. THE DOCUMENTS ARE INTENDED TO DESCRIBE THE GENERAL DESIGN INTENT AND MAY NOT INDICATE ALL OFFSETS, DEVICES, APPURTENANCES, OR CONSTRUCTION DIFFICULTIES. THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND WORK REQUIRED TO A CODE COMPLIANT, FULL FUNCTIONING SYSTEM WHETHER SHOWN ON THE DOCUMENTS OR NOT, AT

#### GENERAL MECHANICAL SYMBOLS LEGEND

DUCTWORK LEGEND	)					
SINGLE LINE	DOUBLE LINE		SINGLE LINE DOUBLE	LINE	SINGLE LINE DOUBLE LINE	
		SUPPLY/OUTSIDE AIR DUCT		CONCENTRIC TRANSITION		FILTERS
		RETURN/EXHAUST AIR DUCT		ECCENTRIC TRANSITION	H/C	HEATING COIL
		SUPPLY/OUTSIDE AIR DUCT ELBOW (UP AND DOWN)		RECTANGULAR BRANCH TAKE OFF	C/C	COOLING COIL
		RETURN/EXHAUST DUCT ELBOW (UP AND DOWN)			T	TEMPERATURE SENSOR OR THERMOSTAT
12x10	12x10	RECTANGULAR OR SQUARE DUCT, SIZE IN INCHES (1ST #-SIZE SHOWN, 2ND #-SIZE NOT SHOWN)		ROUND BRANCH TAKE OFF	$\mathbb{H}$	HUMIDITY SENSOR OR HUMIDISTAT
10	{ 10 }	ROUND DUCT, SIZE IN INCHES		MANUAL VOLUME (BALANCING) DAMPER		CARBON MONOXIDE SENSOR
12x10	{ 12x10 }	FLAT OVAL DUCT, SIZE IN INCHES (1ST #-SIZE SHOWN, 2ND #-SIZE NOT SHOWN)		DUCT RISE IN DIRECTION OF ARROW	©02) Sw	CARBON DIOXIDE SENSOR  MANUAL WALL SWITCH
		ROUND OR FLAT OVAL DUCT (UP)		ACCESS DOORS SIDE AND BOTTOM	<b>Y</b>	
———		ROUND OR FLAT OVAL DUCT (DOWN)	==== {=	AGGGSTIGALTE LINED BOOT (1 LINING BON)		DUCT MOUNTED FIRE DAMPER W/ ACCESS DOOR
		END OF DUCT (CAPPED)		DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS		DUCT MOUNTED SMOKE DAMPER W/ ACCESS DOOR
		ROUND SUPPLY AIR DIFFUSER MOUNTED BELOW DUCT		DUCT MOUNTED EQUIPMENT (COIL, ETC.) (TRANSITION DUCT AS REQUIRED TO MATCH EQUIPMENT)		DUCT MOUNTED FIRE/SMOKE DAMPER W/ ACCESS DOOR
		SUPPLY AIR REGISTER/GRILLE MOUNTED ON SIDE OF DUCT		FLEXIBLE CONNECTORS		DOCT MODIFIED THE SAMONE DAMIN EN MY ACCESS DOCK
<u>'</u>	<b>†</b>	RETURN/EXHAUST OR SUPPLY AIR REGISTER/GRILLE MOUNTED BELOW DUCT	<b>→</b> √√ <b>&gt;</b> √	FLEXIBLE DUCT		DUCT MOUNTED MOTORIZED DAMPER
	<b>-</b>	RETURN/EXHAUST AIR REGISTER/GRILLE		SUPPLY DIFFUSER (4-WAY THROW PATTERN UON)		DUCT MOUNTED BACKDRAFT DAMPER
	•	MOUNTED ON SIDE OF DUCT	<b>→</b>	SUPPLY DIFFUSER, 3-WAY THROW PATTERN		DUCT MOUNTED SMOKE DETECTOR
		RECTANGULAR TO ROUND DUCT TRANSITION	<b>←</b> ⊠ <b>→</b>	SUPPLY DIFFUSER, 2-WAY THROW PATTERN		DUCT MOUNTED STATIC PRESSURE SENSOR
		RECTANGULAR ELBOW WITH TURNING VANES	$\boxtimes$ $\longrightarrow$	SUPPLY DIFFUSER, 1-WAY THROW PATTERN	E	DUCT MOUNTED AIRFLOW MONITORING STATION
1	<del></del>			RETURN OR EXHAUST REGISTER OR GRILLE		
		RADIUS ELBOW		LINEAR DIFFUSER OR GRILLE		DUCT MOUNTED HUMIDIFIER

PIPE SPECIALTIES I	LEGEND							RISER TAGS
	SHUTOFF VALVE (SEE SPECS FOR TYPE)		HOSE END DRAIN CONNECTION		PIPE ANCHOR	Γ	90° ELBOW	CHW CHILLED WATER
	BALANCING VALVE (SEE SPECS FOR TYPE)	——  ——	PIPE UNION OR FLANGED PIPE JOINT SEE SPECS FOR TYPE	<u>W</u>			45° ELBOW	CW CONDENSER WATER
	CHECK VALVE (SEE SPECS FOR TYPE)	———	CAPPED PIPE	L	EXPANSION LOOP OF DIMENSIONS INDICATED	<b>─</b>	ELBOW DOWN AND UP	RISER
	PRESSURE REGULATING OR REDUCING VALVE		BLIND PIPE FLANGE	FMS	FLOW MEASURING STATION (SEE SPECS FOR TYPE)		90° TEE	○ <b>HHW</b> HEATING HOT WATER RISER
	TRIPLE DUTY VALVE		DESCRIPE CALLOS W/ NEEDLE VALVE	(DP)	DIFFERENTIAL PRESSURE SENSOR OR SWITCH		90° TEE DOWN AND UP	O LPS LOW PRESSURE STEAM RISER
	AUTOMATIC FLOW CONTROL VALVE		PRESSURE GAUGE W/ NEEDLE VALVE (SEE SPECS FOR TYPE)	FS	PIPE MOUNTED FLOW SWITCH		45' WYE	O GAS RISER
	TWO-WAY AUTOMATIC CONTROL VALVE (SEE SPECS IF 2-POSITION OR MODULATING)		THERMOMETER (SEE SPECS FOR TYPE)	P	PIPE MOUNTED PRESSURE SENSOR		CONCENTRIC REDUCER	
	THREE-WAY AUTOMATIC CONTROL VALVE (SEE SPECS IF 2-POSITION OR MODULATING)	T	PRESSURE/TEMPERATURE TEST CONNECTION		PIPE MOUNTED TEMPERATURE SENSOR		ECCENTRIC REDUCER WITH BOTTOM FLAT	O DT DUAL TEMPERATURE WATER RISER
	SAFETY RELIEF VALVE		PIPE INSTRUMENT WELL	<del></del>	STEAM TRAP (SEE SPECS FOR TYPE)		ECCENTRIC REDUCER WITH TOP FLAT	O COOLING COIL CONDENSATE
T	WYE PATTERN STRAINER		FLEXIBLE CONNECTOR	$-\!$	PUMP		PITCH PIPE DOWN IN DIRECTION OF ARROW	
			EXPANSION COMPENSATING DEVICE	<u> </u>	AUTOMATIC AIR VENT	<u></u>	PITCH PIPE UP IN DIRECTION OF ARROW	
	BASKET STRAINER		PIPE GUIDE		MANUAL AIR VENT			

—— вғw ——	—— вғw ———	BOILER FEED WATER	GWS	—— GWS ———	<ul> <li>GEOEXCHANGE LOOP WATER SUPPLY</li> </ul>
—— снws ——	—— снws ——	- CHILLED WATER SUPPLY	GWR	—— GWR ———	GEOEXCHANGE LOOP WATER RETURN
CHWR	CHWR	CHILLED WATER RETURN	——— PC ——	—— PC ———	PUMPED CONDENSATE
		DOMESTIC COLD WATER	RG	—— RG ———	- REFRIGERANT HOT GAS
cws	cws	CONDENSER WATER SUPPLY		RL	- REFRIGERANT LIQUID
cwr	cwr	CONDENSER WATER RETURN	RS	RS	- REFRIGERANT SUCTION
CD	—— CD ———	COOLING COIL CONDENSATE DRAIN	———— RV ———	- — RV — —	- REFRIGERANT VENT
—— DTWS ——	—— DTWS ——	DUAL TEMPERATURE WATER SUPPLY	LPS	LPS	LOW PRESSURE STEAM
DTWR	DTWR	DUAL TEMPERATURE WATER RETURN	LPC	LPC	LOW PRESSURE STEAM CONDENSATE
Fos	Fos	FUEL OIL SUPPLY	—— нрѕ ——	—— нрѕ ———	- HIGH PRESSURE STEAM
FOR	FOR	FUEL OIL RETURN	—— НРС ——	—— НРС ———	HIGH PRESSURE STEAM CONDENSATE
— — FOV — —	— FOV — —	FUEL OIL VENT	D	D	— DRAIN
	— G ——	- NATURAL GAS			
—— ннws ——	—— ннws ——	- HEATING HOT WATER SUPPLY	——— (E)XXX ———	(E)XXX	— EXISTING PIPING TO REMAIN (TYP)
—— ннwr ——	—— ннwr ——	- HEATING HOT WATER RETURN	— — (D)XXX — —	— (D)XXX — -	- EXISTING PIPING TO BE DEMOLISHED (TY
LPG	LPG	LIQUIFIED PETROLEUM GAS (PROPANE)	xxx	xxx	PIPE ELECTRICALLY HEAT TRACED (TYP)

<b>-</b>	RETURN/EXHAUST/TRANSFER AIR FLOW		DEMOLITION  EXISTING/BY OTHERS/FOR REFERENCE ONLY
—  — <del>-</del>	SUPPLY AIR FLOW		NEW
<b>→</b> √U/C	DOOR UNDERCUT		BOUNDARY/ZONE BROKEN LINE/OBJECT
→ √DG	DOOR TRANSFER GRILLE	<del></del> _	ENCLOSURE/GROUPING
$\boxtimes$	MOTOR STARTER		
CT	CURRENT SENSING TRANSDUCER	ABC 123	KEYED NOTE (NUMBERED/LETTERED)
VFD	VARIABLE FREQUENCY DRIVE	• ~~~~	REVISION CLOUD & REVISION TAG
	POINT OF CONNECTION TO EXISTING SYSTEM		CLOUD INDICATES AREA OF REVISION TAG "△" INDICATES REVISION NUMBER
	EXTENT OF REMOVAL OF EXISTING SYSTEM		
(XXX)	EQUIPMENT TAG INDICATES EQUIPMENT TYPE INDICATES EQUIPMENT NUMBER		

AAV	AUTOMATIC AIR VENT	Н	HEIGHT OR HIGH
ABV ACU	ABOVE AIR CONDITIONING UNIT	HC HD	HEATING COIL HEAD (IN FEET OF WATER COLUMN UON)
AD	ACCESS DOOR	HHW	HEATING HOT WATER (PIPE)
AFF AHU	ABOVE FINISHED FLOOR AIR HANDLING UNIT	HHWR HHWS	HEATING HOT WATER RETURN (PIPE) HEATING HOT WATER SUPPLY (PIPE)
Al	ANALOG INPUT CONTROL SIGNAL	HH <b>W</b> S/R	HEATING HOT WATER SUPPLY AND RETURN (PIPES)
AO AP	ANALOG OUTPUT CONTROL SIGNAL ACCESS PANEL	HOA HP	HAND-OFF-AUTOMATIC (SWITCH) HORSEPOWER
APD	AIR PRESSURE DROP	HPC	HIGH PRESSURE STEAM CONDENSATE (PIPE)
ATC AWT	AUTOMATIC TEMPERATURE CONTROL (SYSTEM) AVERAGE WATER TEMPERATURE	HPS HRC	HIGH PRESSURE STEAM (PIPE) HEAT RECOVERY COIL
BAS	BUILDING AUTOMATION SYSTEM	HS	HUMIDITY SENSOR
BBR	BASEBOARD RADIATION	HX	HEAT EXCHANGER
BDD BEI	BACKDRAFT DAMPER BURRIS ENGINEERS, INC.	HZ ID	Frequency in Hertz Inside Diameter
BFP	BACKFLOW PREVENTOR	IFGC	INTERNATIONAL FUEL GAS CODE
BFW BHP	Boiler Feed Water Brake Horsepower	IMC IN	INTERNATIONAL MECHANICAL CODE INCHES
BLDG	BUILDING	KVA	KILOVOLT-AMPS
BLW BOD	BELOW BOTTOM OF DUCT OR BASIS OF DESIGN	KW KWH	KILOWATTS KILOWATTS PER HOUR
BOP	BOTTOM OF PIPE	L	LENGTH
BOS BTU	BOTTOM OF STEEL BRITISH THERMAL UNITS	LA LAT	LEAVING AIR LEAVING AIR TEMPERATURE
BTUH	BRITISH THERMAL UNITS PER HOUR	LBS	POUNDS
CA	COMPRESSED AIR	LBS/HR	POUNDS PER HOUR
CC CDL	COOLING COIL COOLING COIL CONDENSATE DRAIN LINE	LD LPC	LINEAR DIFFUSER LOW PRESSURE STEAM CONDENSATE (PIPE)
CFH	CUBIC FEET PER HOUR	LPG	LIQUIFIED PETROLEUM GAS (PROPANE) (PIPE)
CFM CHW	CUBIC FEET PER MINUTE CHILLED WATER	LPS LRA	LOW PRESSURE STEAM (PIPE) LOCKED ROTOR AMPS
CHWR	CHILLED WATER RETURN (PIPE)	LWT	LEAVING WATER TEMPERATURE
CHWS CHWS/R	CHILLED WATER SUPPLY (PIPE) CHILLED WATER SUPPLY AND RETURN (PIPES)	MA MAT	MIXED AIR MIXED AIR TEMPERATURE
CLG	CEILING OR COOLING	MAV	MANUAL AIR VENT
CO CO2	CARBON MONOXIDE  CARBON DIOXIDE	MAX MBH	MAXIMUM THOUSAND BRITISH THERMAL UNITS PER HOUR
CONC	CONCRETE	MC	MECHANICAL CONTRACTOR
CONT	CONTINUE(D) COEFFICIENT OF PERFORMANCE	MCA MIN	MINIMUM CIRCUIT AMPACITY MINIMUM
CT	CURRENT TRANSDUCER	MOCP	MAXIMUM OVERCURRENT PROTECTIVE DEVICE (SIZE IN AMPERES)
CU	CONDENSING UNIT OR COPPER	MOD	MOTOR OPERATED DAMPER
CUH	CABINET UNIT HEATER CONSTANT VOLUME (AIR TERMINAL UNIT)	(N) NC	NEW (WORK) NOISE CRITERIA OR NORMALLY CLOSED
CW	CONDENSER WATER (PIPE)	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION (STANDARD/S)
CWR CWS	CONDENSER WATER RETURN (PIPE) CONDENSER WATER SUPPLY (PIPE)	NO NTS	NORMALLY OPEN NOT TO SCALE
CWS/R	CONDENSER WATER SUPPLY AND RETURN (PIPES)	OA	OUTDOOR AIR
(D) DB	DEMOLISH DRY BULB TEMPERATURE OR DECIBELS	OAI OAT	OUTDOOR AIR INTAKE OUTDOOR AIR TEMPERATURE
DBA	"A" WEIGHTED DECIBELS	OBD	OPPOSED BLADE DAMPER
DCW DDC	DOMESTIC COLD WATER DIRECT DIGITAL CONTROL (SYSTEM)	od oed	OUTSIDE DIAMETER OPEN END DUCT
DEG	DEGREES (FAHRENHEIT UON)	P/E	PNEUMATIC TO ELECTR(ON)IC (SWITCH OR TRANSDUCER)
DI Dia	DIGITAL INPUT CONTROL SIGNAL DIAMETER	P/T PBD	PRESSURE AND TEMPERATURE PARALLEL BLADE DAMPER
DN	DOWN	PC	PLUMBING CONTRACTOR OR PUMPED CONDENSATE (PIPE)
DO DOAS	DIGITAL OUTPUT CONTROL SIGNAL DEDICATED OUTDOOR AIR SYSTEM	PD PH	PRESSURE DROP PHASE
DP	DIFFERENTIAL PRESSURE	PRV	PRESSURE REDUCING OR REGULATING VALVE
DPS	DIFFERENTIAL PRESSURE SENSOR OR SWITCH	PS PSF	PRESSURE SENSOR OR SWITCH
DTW DTWR	DUAL TEMPERATURE WATER (PIPE) DUAL TEMPERATURE WATER RETURN (PIPE)	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
DTWS	DUAL TEMPERATURE WATER SUPPLY (PIPE)	PSIA	POUNDS PER SQUARE INCH, ABSOLUTE PRESSURE
DTWS/R DWG	DUAL TEMPERATURE WATER SUPPLY AND RETURN (PIPES) DRAWING	PSIG PTAC	POUNDS PER SQUARE INCH, GAUGE PRESSURE PACKAGED TERMINAL AIR CONDITIONING UNIT
DX	DIRECT EXPANSION (COOLING)	QTY	QUANTITY
(E) (ER)	EXISTING (TO REMAIN) EXISTING TO BE RELOCATED	(R) (RE)	REMOVE RELOCATED EXISTING
ÈA	EACH OR EXHAUST AIR	RA	RETURN AIR
EAT EC	ENTERING AIR TEMPERATURE OR EXHAUST AIR TEMPERATURE ELECTRICAL CONTRACTOR	RAC RAT	RUN ABOVE CEILING RETURN AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO	RBF	RUN BELOW FLOOR
EF	EXHAUST FAN	RD	ROOF DRAIN
EG E/P	EXHAUST GRILLE ELECTR(ON)IC TO PNEUMATIC (SWITCH OR TRANSDUCER)	REF RG	REFRIGERANT REFRIGERANT HOT GAS (PIPE)
ER	EXHAUST REGISTER	RH	RELATIVE HUMIDITY
ESP ET	EXTERNAL STATIC PRESSURE EXPANSION TANK	RHP RL	RADIANT HEATING PANEL REFRIGERANT LIQUID (PIPE)
EWT	ENTERING WATER TEMPERATURE	RLA	RUNNING LOAD AMPS
EXT F	EXTERIOR (DEGREES) FAHRENHEIT	RPM RS	REVOLUTIONS PER MINUTE REFRIGERANT SUCTION (PIPE)
F&T	FLOAT AND THERMOSTATIC (STEAM TRAP)	RTU	ROOFTOP AIR HANDLING UNIT
F/S FC	COMBINATION FIRE AND SMOKE (DAMPER) FLEXIBLE CONNECTOR	RV SA	REFRIGERANT VENT (PIPE) SUPPLY AIR
FCU	FAN COIL UNIT	SAT	SUPPLY AIR SUPPLY AIR TEMPERATURE
FD ELA	FIRE DAMPER OR FLOOR DRAIN	SD	SMOKE DAMPER OR SMOKE DETECTOR
FLA FLR	FULL LOAD AMPS FLOOR	SEC SF	SECONDS SQUARE FEET
F0	FUEL OIL (PIPE)	SP	STATIC PRESSURE
FOR FOS	Fuel oil return (Pipe) Fuel oil Supply (Pipe)	STRUCT TOS	STRUCTURE(AL) TOP OF STEEL
FOS/R	FUEL OIL SUPPLY AND RETURN (PIPES)	TS	TEMPERATURE SENSOR
FOV FPF	FUEL OIL VENT (PIPE) FINS PER FOOT	TSP TYP	TOTAL STATIC PRESSURE TYPICAL
FPM	FEET PER MINUTE	UH	UNIT HEATER
FPS FS	FEET PER SECOND	UON UV	UNLESS OTHERWISE NOTED
FSD	FLOW SENSOR OR SWITCH COMBINATION FIRE AND SMOKE DAMPER	V	UNIT VENTILATOR VOLTS
1 30		VAV	VARIABLE AIR VOLUME (AIR TERMINAL UNIT)

MANUAL VOLUME (BALANCING) DAMPER

VARIABLE FREQUENCY DRIVE

WET BULB TEMPERATURE

VERIFY IN FIELD

WATTS OR WIDTH

WATER COLUMN

WIRE MESH SCREEN

WATER PRESSURE DROP

WALL HEATER

TRANSFER TRANSFORMER

WITHOUT

XFER XFMR

FINNED TUBE RADIATION OR RADIATOR

GEOEXCHANGE LOOP WATER (PIPE)

GEOEXCHANGE LOOP WATER RETURN (PIPE)

GWS/R GEOEXCHANGE LOOP WATER SUPPLY AND RETURN (PIPES) WPD

GEOEXCHANGE LOOP WATER SUPPLY (PIPE)

FREEZESTAT

GALLONS

NATURAL GAS (PIPE)

GENERAL CONTRACTOR

GALLONS PER HOUR

GALLONS PER MINUTE

REVISIONS

REVISIONS

ISSUE DATE

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

SMPARCHITECTS
1600 Walnut Street, 2nd Floor
Philadelphia, Pennsylvania 19103
215 985 4410 fax 985 4430

BURRIS ENGINEERS, INC
716 N. BETHLEHEM PIKE, SUITE 201
LOWER GWYNEDD, PENNSYLVANIA 19002
215 643 4465 fax 215 643 4481
jburris@burrisengineers.com

CITY OF PHILADELPHIA

DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

MECHANICAL —

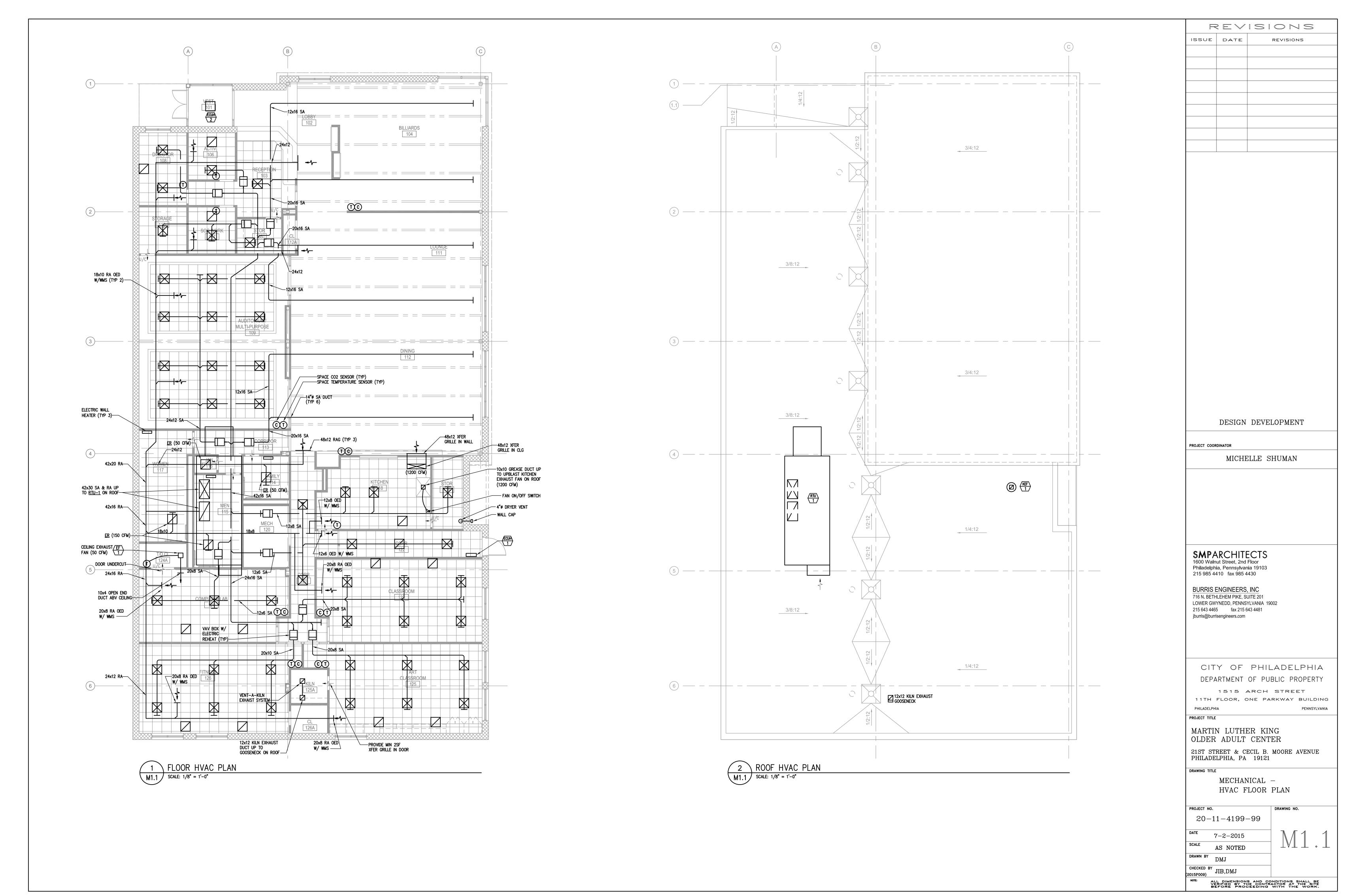
COVER SHEET

PROJECT NO. DRAWING NO.

CHECKED BY JIB,DMJ (2015P009)

NOTE: ALL DIMENSIONS AND CONDITIONS SHA

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



	- 1		TOTAL	OUTSIDE	<u> </u>	UPPLY FA	NS	R	RETURN FAI	IS	LIVI	SLIMIN	WHEEL-	EN.	THALPY V	WHEEL-	WINTER	WHEEL			COC	OLING D	ATA				HE.	ATING DA	ГА			ELECT	DICAL		DIME	ENSIONS	2 /INI)			
AG LO	CATION	AREA	AIR	AIR		MOTOR			MOTOR	MAX		EAT	LAT L	AT EA	T EAT	LAT	LAT	MOTOR	NOMINAL	CAP	CAP	OAT	EAT	EAT	LAT LA	T GAS	INPUT	OUTPU	EAT	LAT		ELECT	RICAL		DIIVIE	INSIONS	S (IIV)	WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
100 100 100		SERVED	FLOW (CFM)	(CFM)	NUMBER	(HP) EACH	ESP (IN WC)	NUMBER	(HP) EACH	ESP (IN WC)	DB (F)	(F)	DB \ (F)	WB   DI (F)   (F	) (F)	(F)	(F)	(HP)	TONS	(MBH)	SENS (MBH)	(F)	(F)	(F)	(F) (F	) (IN W	(MRH)	(MBH)	(F)	(F)	МОСР	FLA	MCA	V/PH	L	W	Н	(LB3)	MANUFACTURER/MODEL	STANDARD MATERIAL DESCRIPTION
ΓU-1 R	ROOF	ENTIRE BLDG	15,000	3,300	2	10	2.0	2	7.5	1.0	92.0	75.0	79.3 6	67.3 11	0 8.0	56.3	44.2	0.25	38	445	341	95.0	76.0	64.0	55.0 54	0 7	265	212	67.0	80.0	300	251	270.0	208/3	350	114	114	12,500	ANNEXAIR ERP-16-EW03-C-HG-AM38	SEE NOTES
																																		7						
ES: 1. PR	ROVIDE RO	OOF CURB, EC	ONOMIZE	R, ENTHA	LPY WHEE	WITH FRO	OST CONTR	ROL AND B	YPASS DAN	IPERS, INT	ERNAL V	IBRATIO	ON ISOLA	ATION, ME	RV 13 FI	LTERS, \	VFDS (O	N ALL FAN	S, COMPRE	SSORS A	ND WHEEL	.), DISCH	HARGE A	R CONTR	ROL, SING	E POINT	CONNECT	ION AND D	ISCONN	ECT.										
2. ON	NLY THE O	UTSIDE AIRFL	OW AND A	CORRES	SPONDING	AMOUNT O	F RETURN	AIR PASSE	S THROUG	H THE ENT	HALPY W	HEEL.	THE RE	MAINDER	OF THE	RETUR	N BYPAS	SES THE \	WHEEL. TH	E COOLIN	G COIL AND	GAS FL	URNACE	ENTERIN	IG AIR CO	NDITIONS	REPRESE	NT THE M	XED AIR	CONDIT	ION DOW	NSTREA	M							

ISSUE	DATE	REVISIONS

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

SMPARCHITECTS
1600 Walnut Street, 2nd Floor
Philadelphia, Pennsylvania 19103
215 985 4410 fax 985 4430

BURRIS ENGINEERS, INC
716 N. BETHLEHEM PIKE, SUITE 201
LOWER GWYNEDD, PENNSYLVANIA 19002
215 643 4465 fax 215 643 4481
jburris@burrisengineers.com

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

MECHANICAL -HVAC SCHEDULES & DETAILS

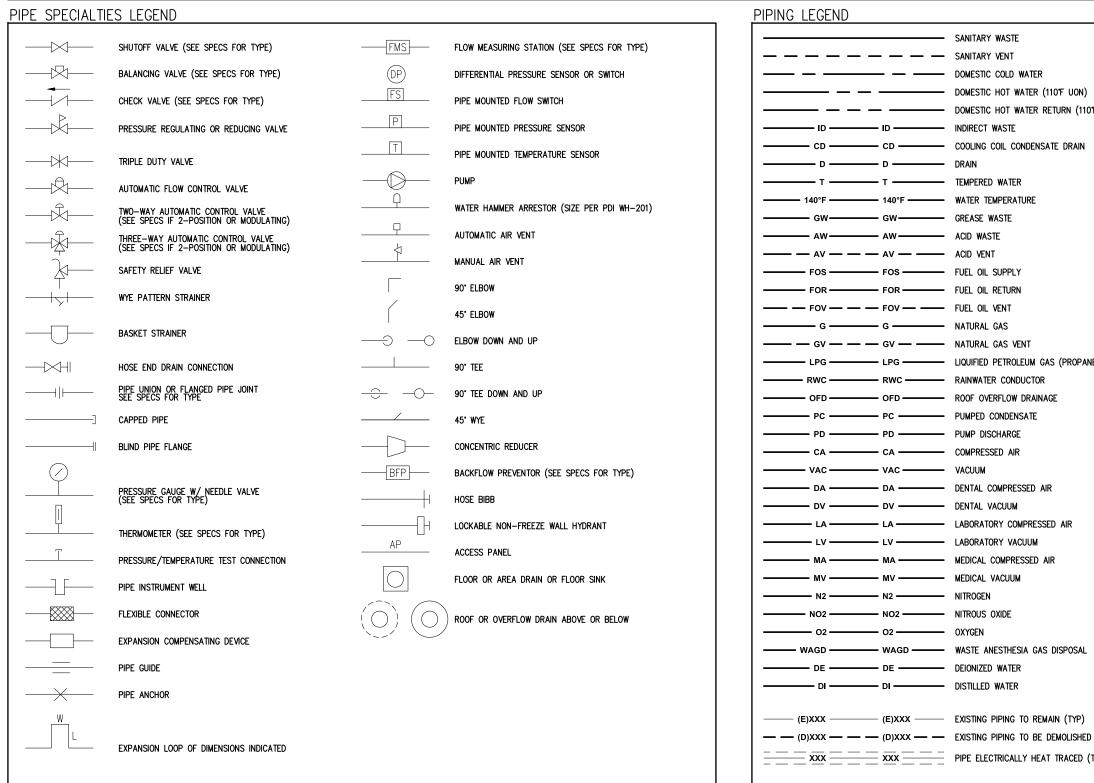
PROJECT NO. DRAWING NO. 20-11-4199-99 7-2-2015 AS NOTED CHECKED BY JIB,DMJ (2015P009)

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

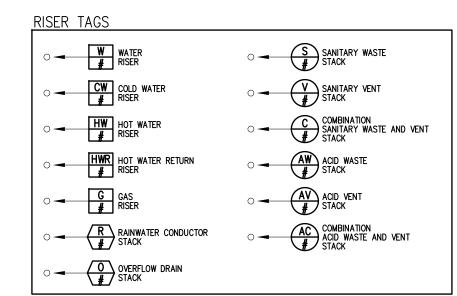
#### GENERAL PLUMBING NOTES

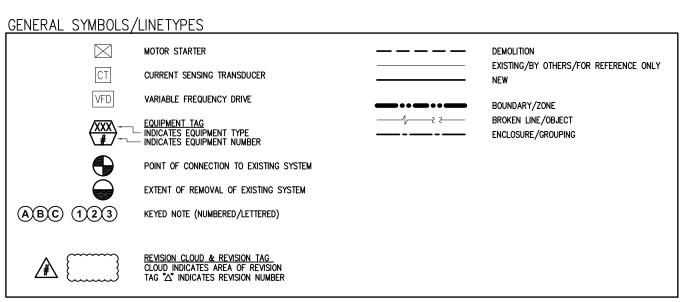
- THESE NOTES APPLY TO ALL PLUMBING DRAWINGS.
- 2. ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.
- 3. ALL WORK SHALL COMPLY WITH THE PHILADELPHIA PLUMBING CODE, LATEST EDITION.
- 4. PROVIDE ALL CODE REQUIRED WORK OR DEVICES AT NO COST, WHETHER SHOWN OR NOT.
- 5. PROVIDE ALL TRANSITIONS AND OFFSETS AS REQUIRED AT NO COST.
- 6. FIELD VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. DO NOT SCALE DRAWINGS.
- 7. VERIFY EQUIPMENT CONNECTIONS WITH AND INSTALL PER MANUFACTURER'S DATA.
- 8. TRANSITION AS REQUIRED TO MAKE FINAL EQUIPMENT CONNECTIONS.
- 9. INSTALL ALL PIPING AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED.
- 10. PROVIDE 4" HIGH CONCRETE PADS BENEATH ALL FLOOR MOUNTED EQUIPMENT.
- 11. COORDINATE PAD SIZES WITH EQUIPMENT. PAD SHALL BE 4" WIDER THAN EQUIPMENT, ALL SIDES.
- 12. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS REQUIRED.
- 13. PROVIDE ACCESS PANELS AS REQUIRED TO SERVICE CONCEALED EQUIPMENT, VALVES, ETC.
- 14. PROVIDE KEYLESS STOPS ON WATER SUPPLIES TO ALL PLUMBING FIXTURES.
- 15. PROVIDE SHUTOFF VALVE AT BASE OF ALL RISERS IN ACCESSIBLE LOCATION.
- 16. WORK SHALL NOT BE CONCEALED PRIOR TO INSPECTION AND APPROVAL BY PLUMBING INSPECTOR.
- 17. PROVIDE FLEXIBLE CONNECTIONS BETWEEN PIPING AND ALL MOTOR DRIVEN EQUIPMENT.
- 18. PROVIDE WATER HAMMER ARRESTORS IN ACCESSIBLE LOCATIONS AT ALL FLUSH VALVE WATER CLOSETS.
- 19. SIZE WATER HAMMER ARRESTORS PER PDI-WH201.
- 20. INSTALL HANDICAPPED ACCESSIBLE FIXTURES IN ACCORDANCE WITH ADA STANDARDS.
- 21. COVER EXPOSED PIPING BELOW ACCESSIBLE FIXTURES WITH PREFORMED INSULATION KITS.
- 22. DISINFECT WATER PIPING IN ACCORDANCE WITH CODE IN FORCE.
- 23. INSTALL GAS PIPING IN ACCORDANCE WITH THE IFGC, LATEST EDITION.
- 24. PROVIDE CALIBRATED BALANCING VALVES ON ALL RETURN WATER CIRCUITS.
- 25. BALANCE WATER FLOW THROUGH RETURN CIRCUITS TO FLOW RATES INDICATED.
- 26. FIRE SAFE ALL PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION.
- 27. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED CONSTRUCTION.
- 28. PROVIDE DIELECTRIC FITTINGS WHERE JOINING PIPING OF DIFFERENT MATERIALS.
- 29. COORDINATE WITH ROOM FINISHES, ETC. EXISTING OR SHOWN ON ARCHITECTURAL DRAWINGS. 30. INSTALL ALL EQUIPMENT, PIPING, ETC. LEVEL AND PLUMB UNLESS OTHERWISE NOTED.
- 31. ALL WASTE PIPING SHALL BE SLOPED AS REQUIRED BY PLUMBING CODE IN FORCE.
- 32. ALL VENT PIPING SHALL BE INSTALLED VERTICAL OR SLOPED UP TOWARDS VENT THRU ROOF.
- 33. CONCENTRATE LOADS AT BEAMS, JOISTS, ETC. PROVIDE STEEL SUPPORTS AS REQUIRED.
- 34. MAINTAIN MINIMUM 10' SEPARATION BETWEEN PLUMBING VENTS AND HVAC AIR INTAKES.
- 35. PROVIDE SHUTOFF VALVES AT ALL BRANCH TAKEOFFS WHETHER SHOWN OR NOT, AT NO COST. 36. COORDINATE EQUIPMENT PLUMBING REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 37. ALL WORK SHALL CONFORM WITH ALL LOCAL UTILITY REQUIREMENTS AT NO COST.
- 38. PROVIDE ALL TRENCHING AND BACKFILLING REQUIRED.
- 39. PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.
- 40. REPAIR ANY DAMAGED FINISHES TO MATCH EXISTING ADJACENT.
- 41. INSTALL ALL PIPING, ETC. ABOVE CEILINGS IN ROOMS WITH CEILING UNLESS OTHERWISE NOTED. 42. INSTALL ALL EXPOSED PIPING PARALLEL OR AT RIGHT ANGLES TO WALLS.
- 43. COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.
- 44. THESE DOCUMENTS ARE PREPARED WITH THE UNDERSTANDING THAT THE BIDDING CONTRACTOR IS EXPERT IN THE BIDDING AND CONSTRUCTION OF A PROJECT OF THIS TYPE AND HAS VISITED THE SITE. THE DOCUMENTS ARE INTENDED TO DESCRIBE THE GENERAL DESIGN INTENT AND MAY NOT INDICATE ALL OFFSETS, DEVICES, APPURTENANCES, OR CONSTRUCTION DIFFICULTIES. THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND WORK REQUIRED FOR A CODE COMPLIANT, FULL FUNCTIONING SYSTEM WHETHER SHOWN ON THE DOCUMENTS OR NOT, AT NO COST TO PROJECT.

#### GENERAL PLUMBING SYMBOLS LEGEND



		- DOMESTIC HOT WATER RETURN (110°F UON
——— ID ——	—— ID ———	- INDIRECT WASTE
CD	—— CD ———	- COOLING COIL CONDENSATE DRAIN
D	D	- DRAIN
— т —	— т ——	- TEMPERED WATER
140°F	—— 140°F ———	- WATER TEMPERATURE
——— GW——	—— GW———	- GREASE WASTE
AW	—— AW ———	- ACID WASTE
———— AV ——	— — AV — —	- ACID VENT
FOS	Fos	- FUEL OIL SUPPLY
FOR	FOR	- FUEL OIL RETURN
—— — FOV — -	— — FOV — —	- FUEL OIL VENT
G	G	- NATURAL GAS
—— — GV — —	— GV — —	- NATURAL GAS VENT
LPG	LPG	- LIQUIFIED PETROLEUM GAS (PROPANE)
	—— RWC ———	- RAINWATER CONDUCTOR
OFD	—— OFD ———	- ROOF OVERFLOW DRAINAGE
PC	PC	- PUMPED CONDENSATE
PD	—— PD ———	- PUMP DISCHARGE
са	CA	- COMPRESSED AIR
VAC	VAC	- VACUUM
DA	DA	- DENTAL COMPRESSED AIR
DV	DV	- DENTAL VACUUM
LA	—— LA ———	- LABORATORY COMPRESSED AIR
LV	LV	- LABORATORY VACUUM
——— MA ——	—— ма ———	- MEDICAL COMPRESSED AIR
MV	MV	- MEDICAL VACUUM
——— N2 ——	N2	- NITROGEN
NO2	NO2	- NITROUS OXIDE
O2	O2	- OXYGEN
WAGD	WAGD	- WASTE ANESTHESIA GAS DISPOSAL
DE	—— DE ———	- DEIONIZED WATER
DI	—— DI ———	- DISTILLED WATER
——— (E)XXX ———	—— (E)XXX ——	- EXISTING PIPING TO REMAIN (TYP)
— — (D)XXX — —	— (D)XXX — —	- EXISTING PIPING TO BE DEMOLISHED (TYP)
<del> </del>	<del>_</del>	PIPE ELECTRICALLY HEAT TRACED (TYP)





GENE	<u>ERAL PLUMBING ABBREVIA</u>	ΠONS	
AAV	AUTOMATIC AIR VENT	HZ	FREQUENCY IN HERTZ
ABV AC	ABOVE AIR COMPRESSOR	ID IDW	INSIDE DIAMETER
AD	ACCESS DOOR	IE IE	Indirect waste (PIPE) Invert elevation
AF	AIR FILTER	IFGC	INTERNATIONAL FUEL GAS CODE
AFF AHU	ABOVE FINISHED FLOOR AIR HANDLING UNIT	IPC IN	INTERNATIONAL PLUMBING CODE INCHES
Al	ANALOG INPUT CONTROL SIGNAL	KVA	KILOVOLT-AMPS
AN	ACID NEUTRALIZATION (TANK)	KW	KILOWATTS
AO	ANALOG OUTPUT CONTROL SIGNAL	KWH	KILOWATTS PER HOUR
AP ATC	ACCESS PANEL AUTOMATIC TEMPERATURE CONTROL (SYSTEM)	L LA	LENGTH LABORATORY COMPRESSED AIR (PIPE)
AV	ACID VENT (PIPE)	LAV	LAVATORY
AW	ACID WASTE (PIPE)	LBS	POUNDS  POUNDS PER HOUR
BAS BEI	BUILDING AUTOMATION SYSTEM BURRIS ENGINEERS, INC.	LBS/HR LPG	POUNDS PER HOUR LIQUIFIED PETROLEUM GAS (PROPANE) (PIPE)
BFP	BACKFLOW PREVENTOR	LRA	LOCKED ROTOR AMPS
BLDG	BUILDING	LV	LABORATORY VACUUM (PIPE)
BLW BOD	BELOW Basis of Design	LWT MA	LEAVING WATER TEMPERATURE MEDICAL COMPRESSED AIR (PIPE)
BOP	BOTTOM OF PIPE	MAV	MANUAL AIR VENT
BOS	BOTTOM OF STEEL	MAX	MAXIMUM THOUGHAND DOUBLOLD THERMAN HANTE DED HOUR
BTU BTUH	British Thermal Units British Thermal Units per Hour	MBH MC	THOUSAND BRITISH THERMAL UNITS PER HOUR MECHANICAL CONTRACTOR
BWV	BACKWATER VALVE	MCA	MINIMUM CIRCUIT AMPACITY
CA	COMPRESSED AIR	MIN	MINIMUM
CDL CFH	COOLING COIL CONDENSATE DRAIN LINE CUBIC FEET PER HOUR	MOCP MR	MAXIMUM OVERCURRENT PROTECTIVE DEVICE (SIZE IN AMPERES)  MOP RECEPTOR
CFM	CUBIC FEET PER MINUTE	MV	MEDICAL VACUUM (PIPE)
CLG	CEILING	(N)	NEW (WORK)
CO CO2	CLEANOUT CARBON DIOXIDE	N2 N20	Nitrogen (Pipe) Nitrous Oxide (Pipe)
CONC	CONCRETE	NC	NORMALLY CLOSED
CONT	CONTINUE(D)	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION (STANDARD/S)
COTG CT	CLEANOUT TO GRADE CURRENT TRANSDUCER	NFWH NO	NON-FREEZE WALL HYDRANT NORMALLY OPEN
CU	COPPER	NSPC	NATIONAL STANDARD PLUMBING CODE
CW	(DOMESTIC) COLD WATER (PIPE)	NTS	NOT TO SCALE
(D) DA	DEMOLISH DENTAL COMPRESSED AIR (PIPE)	02 0D	OXYGEN (PIPE) OUTSIDE DIAMETER
DB	DECIBELS	OFD	OVERFLOW DRAIN
DBA	"A" WEIGHTED DECIBELS	P	PUMP
DCBP DDC	DOUBLE CHECK ASSEMBLY BACKFLOW PREVENTOR DIRECT DIGITAL CONTROL (SYSTEM)	P/E P/T	PNEUMATIC TO ELECTR(ON)IC (SWITCH OR TRANSDUCER) PRESSURE AND TEMPERATURE
DE	DEIONIZED WATER (PIPE)	PC	PLUMBING CONTRACTOR
DEG	DEGREES (FAHRENHEIT UON)	PD	PUMP(ED) DISCHARGE (PIPE)
DER DES	DEIONIZED WATER RETURN (PIPE) DEIONIZED WATER SUPPLY (PIPE)	PH PIV	PHASE POST INDICATOR VALVE
DES	DRINKING FOUNTAIN	PPC	CITY OF PHILADELPHIA PLUMBING CODE
DI	DISTILLED WATER (PIPE) OR DIGITAL INPUT CONTROL SIGNAL	PRESS	PRESSURE
DIA DN	DIAMETER DOWN	PRV PS	PRESSURE REDUCING OR REGULATING VALVE PRESSURE SENSOR OR SWITCH
DO	DIGITAL OUTPUT CONTROL SIGNAL	PSF	POUNDS PER SQUARE FOOT
DP	DIFFERENTIAL PRESSURE	PSI	POUNDS PER SQUARE INCH
DR DV	DRAIN DENTAL VACUUM (PIPE)	PSIA PSIG	POUNDS PER SQUARE INCH, ABSOLUTE PRESSURE POUNDS PER SQUARE INCH, GAUGE PRESSURE
DWG	DRAWING	QTY	QUANTITY
DWH	DOMESTIC WATER HEATER	(R)	REMOVE
(E) (ER)	EXISTING (TO REMAIN) EXISTING TO BE RELOCATED	(RE) RAC	RELOCATED EXISTING RUN ABOVE CEILING
E/P	ELECTR(ON)IC TO PNEUMATIC (SWITCH OR TRANSDUCER)	RBF	RUN BELOW FLOOR
ΕA	EACH	RD	ROOF DRAIN
EC EEW	ELECTRICAL CONTRACTOR EMERGENCY EYEWASH	RLA RPM	RUNNING LOAD AMPS REVOLUTIONS PER MINUTE
EEW/S	COMBINATION EMERGENCY EYEWASH AND SHOWER	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTOR
ET	EXPANSION TANK	RTU	ROOFTOP AIR HANDLING UNIT
EWC EWH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER	RWC S	RAINWATER CONDUCTOR (PIPE) SINK
EWT	ENTERING WATER TEMPERATURE	SAN	SANITARY DRAIN (PIPE)
EXT	EXTERIOR	SEC	SECONDS
F FC	(DEGREES) FAHRENHEIT FLEXIBLE CONNECTOR	SF SH	SQUARE FEET SHOWER
FC0	FLOOR CLEANOUT	SRWC	SECONDARY RAINWATER CONDUCTOR (PIPE)
FD	FLOOR DRAIN	SS	SERVICE SINK
FDC FFE	FIRE DEPARTMENT CONNECTION FINISHED FLOOR ELEVATION	SSD SSH	SUBSOIL DRAIN SAFETY SHOWER
FLA	FULL LOAD AMPS	ST	STORM DRAIN (PIPE)
FLR	FLOOR	STK	STACK
FO FOR	FUEL OIL (PIPE) FUEL OIL RETURN (PIPE)	STRUCT TEMP	STRUCTURE(AL) TEMPERATURE
FOS	FUEL OIL SUPPLY (PIPE)	TMV	THERMOSTATIC MIXING VALVE
FOS/R	FUEL OIL SUPPLY AND RETURN (PIPES)	TOS	TOP OF STEEL
FOV FPC	FUEL OIL VENT (PIPE) FIRE PROTECTION CONTRACTOR	TP TS	AUTOMATIC TRAP PRIMER TEMPERATURE SENSOR OR SWITCH
FPM	FEET PER MINUTE	TYP	TYPICAL
FPS	FEET PER SECOND	UH	UNIT HEATER
FR FS	FLOOR RECEPTOR FLOOR SINK OR FLOW SENSOR OR SWITCH	uon ur	UNLESS OTHERWISE NOTED
FS FT	FEET	uk V	URINAL SANITARY VENT (PIPE) OR VOLTS
G	NATURAL GAS (PIPE)	VAC	VACUUM (PIPE)
GAL	GALLONS CENTERAL CONTRACTOR	VTR	VENT THROUGH ROOF
GC GCO	GENERAL CONTRACTOR GROUND CLEANOUT	VFD VIF	VARIABLE FREQUENCY DRIVE VERIFY IN FIELD
GPH	GALLONS PER HOUR	W	WASTE OR WATTS OR WIDTH
GPM	GALLONS PER MINUTE	W/	WTH
GV H	GAS VENT (PIPE) HIEGHT OR HIGH	W/O WAGD	WITHOUT WASTE ANESTHESIA GAS DISPOSAL (PIPE)
п HB	HOSE BIBB	WC	WATER CLOSET
HD	HEAD (IN FEET OF WATER COLUMN UON)	WCO	WALL CLEANOUT
HW HWR	HOT WATER (SUPPLY) (PIPE) HOT WATER RETURN (PIPE)	WH WHA	WALL HYDRANT WATER HAMMER ARRESTOR
HOA	HAND-OFF-AUTOMATIC (SWITCH)	WPD	WATER PRESSURE DROP

XFER XFMR

TRANSFER

TRANSFORMER

HORSEPOWER

HEAT EXCHANGER

ISSUE DATE REVISIONS

REVISIONS

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430

BURRIS ENGINEERS, INC 716 N. BETHLEHEM PIKE, SUITE 201 LOWER GWYNEDD, PENNSYLVANIA 19002 215 643 4465 fax 215 643 4481 jburris@burrisengineers.com

CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING PENNSYLVANIA PHILADELPHIA

PROJECT TITLE

PROJECT NO.

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

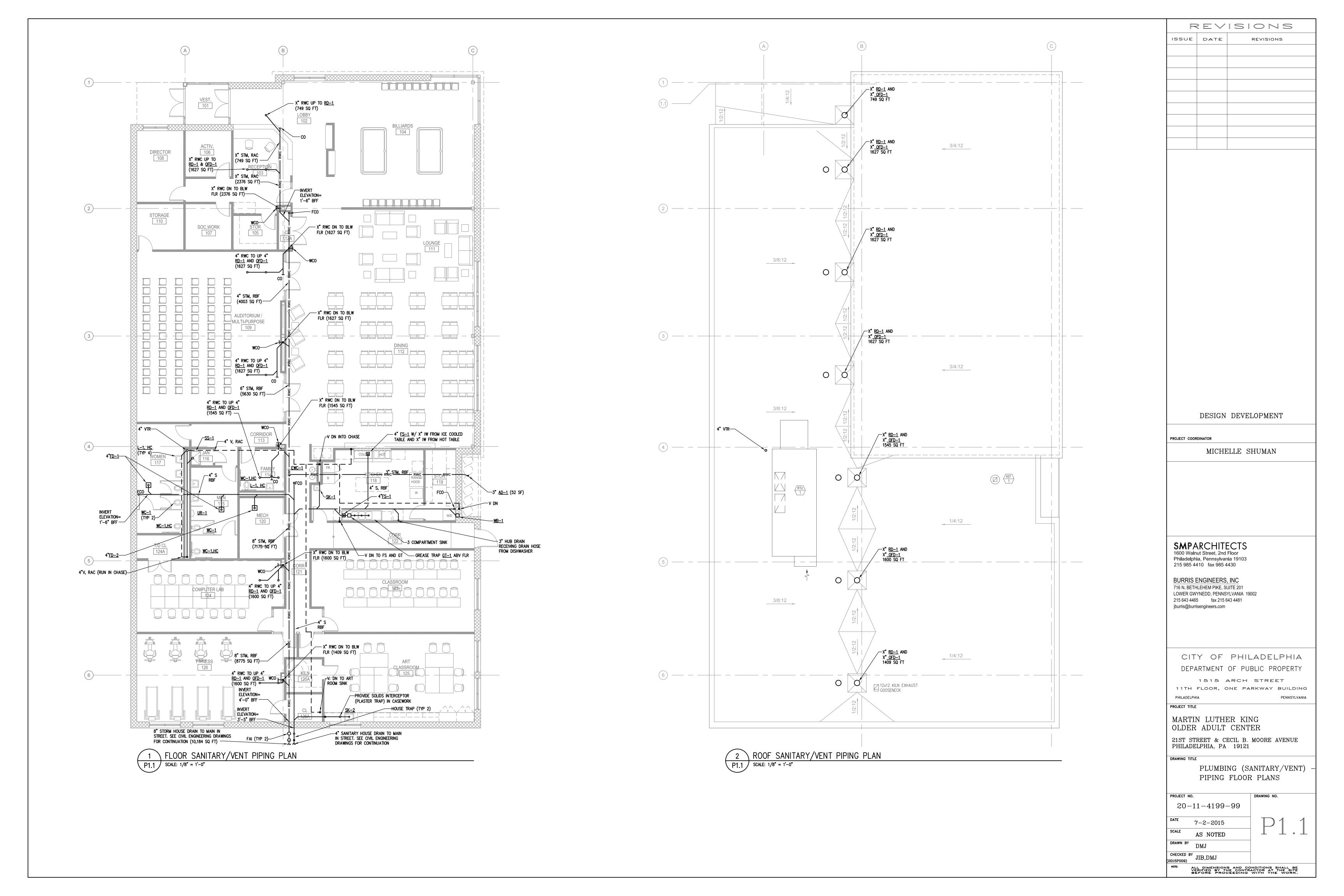
PLUMBING -COVER SHEET

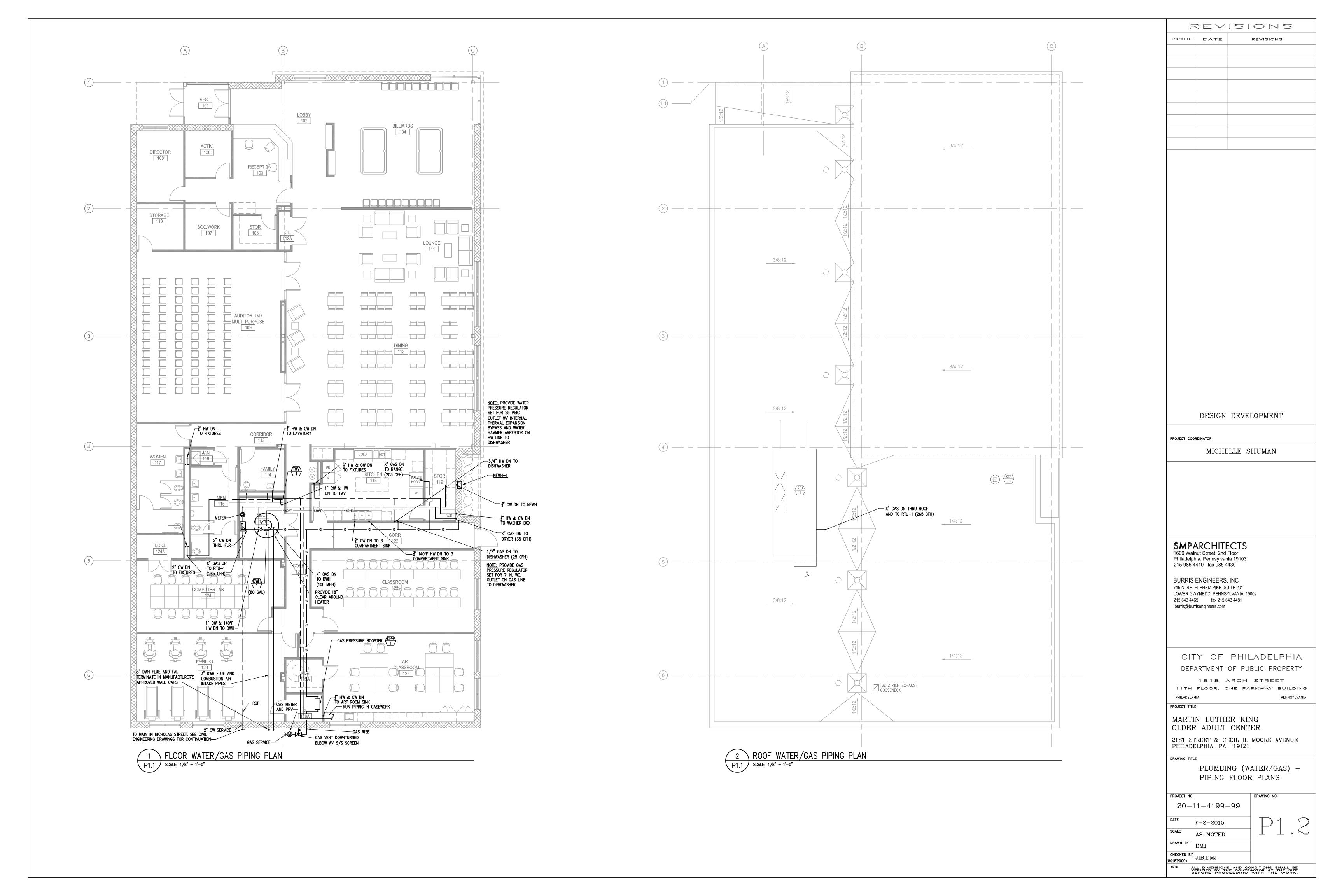
20-11-4199-99 7-2-2015

AS NOTED DRAWN BY DMJ CHECKED BY JIB,DMJ

(2015P009) ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

DRAWING NO.





#### GENERAL FIRE PROTECTION NOTES

- 1. THESE NOTES APPLY TO ALL FIRE PROTECTION DRAWINGS.
- 2. ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.
- 3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE NFPA STANDARDS, LATEST EDITION.
- 4. PROVIDE ALL CODE OR NFPA REQUIRED WORK OR DEVICES AT NO COST, WHETHER SHOWN OR NOT.
- 5. PROVIDE ALL TRANSITIONS AND OFFSETS AS REQUIRED AT NO COST.
- 6. FIELD VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. DO NOT SCALE DRAWINGS.
- 7. VERIFY EQUIPMENT CONNECTIONS WITH AND INSTALL PER MANUFACTURER'S DATA.
- 8. TRANSITION AS REQUIRED TO MAKE FINAL EQUIPMENT CONNECTIONS.
- 9. INSTALL ALL PIPING AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED.
- 10. PROVIDE 4" HIGH CONCRETE PADS BENEATH ALL FLOOR MOUNTED EQUIPMENT.
- 11. COORDINATE PAD SIZES WITH EQUIPMENT. PAD SHALL BE 4" WIDER THAN EQUIPMENT, ALL SIDES.
- 12. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS REQUIRED.
- 13. PROVIDE ACCESS PANELS AS REQUIRED TO SERVICE CONCEALED EQUIPMENT, VALVES, ETC.
- 14. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND FM APPROVED.
- 15. CONFORM TO ALL REQUIREMENTS OF ANY AUTHORITY HAVING JURISDICTION AT NO COST.
- 16. THESE DOCUMENTS ARE CREATED UNDER A PERFORMANCE SPECIFICATION BASIS.
- 17. THE CONTRACTOR SHALL RETAIN FULL DESIGN RESPONSIBILITY FOR ALL WORK.
- 18. CONTRACTOR SHALL PERFORM ALL REQUIRED CALCULATIONS TO SIZE PIPING, ETC.
- 19. CONTRACTOR SHALL ARRANGE FOR A NEW HYDRANT TEST PERFORMED PER NFPA REQUIREMENTS.
- 20. THE RESULTS OF THE NEW HYDRANT TEST SHALL BE BASIS OF CONTRACTOR'S CALCULATIONS.
- 21. HEADS ARE SHOWN MERELY TO INDICATE TYPE AND TYPICAL ARRANGEMENT.
- 22. NUMBER, LOCATION, ETC. OF HEADS SHALL BE DETERMINED BY CONTRACTOR PER NFPA 13. 23. LOCATE HEADS IN CENTER OF CEILING TILES.
- 24. SPRINKLER SYSTEMS SHALL BE DESIGNED PER THE AREA/DENSITY METHOD IN NFPA 13.
- 25. THE ROOM DESIGN METHOD SHALL NOT BE USED.
- 26. PROVIDE FOR A MINIMUM 10 PSI FACTOR OF SAFETY.
- 27. DESIGN FOR MULTIPLE HYDRAULICALLY REMOTE AREAS IF REQUIRED BY THE BUILDING.
- 28. ALL AREAS SHALL BE DESIGNED FOR A LIGHT HAZARD OCCUPANCY UNLESS NOTED OTHERWISE OR NFPA REQUIRES.
- 29. ALL THREADED PIPE SHALL BE MINIMUM SCHEDULE 40 AND MINIMUM PIPE SIZE SHALL BE 1.
- 30. FIRE SAFE ALL PENETRATIONS OF FIRE AND SMOKE RATED CONSTRUCTION.
- 31. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SMOKE RATED CONSTRUCTION.
- 32. PROVIDE DIELECTRIC FITTINGS WHERE JOINING PIPING OF DIFFERENT MATERIALS.
- 33. COORDINATE WITH ROOM FINISHES, ETC. EXISTING OR SHOWN ON ARCHITECTURAL DRAWINGS.
- 34. INSTALL ALL EQUIPMENT, PIPING, ETC. LEVEL AND PLUMB UNLESS OTHERWISE NOTED. 35. CONCENTRATE LOADS AT BEAMS, JOISTS, ETC. PROVIDE STEEL SUPPORTS AS REQUIRED.
- 36. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- 37. ALL WORK SHALL CONFORM WITH ALL LOCAL UTILITY REQUIREMENTS AT NO COST.
- 38. PROVIDE ALL TRENCHING AND BACKFILLING REQUIRED.
- 39. PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.
- 40. REPAIR ANY DAMAGED FINISHES TO MATCH EXISTING ADJACENT.
- 41. INSTALL ALL PIPING, ETC. ABOVE CEILINGS IN ROOMS WITH CEILING UNLESS OTHERWISE NOTED.
- 42. INSTALL ALL EXPOSED PIPING PARALLEL OR AT RIGHT ANGLES TO WALLS AND WITH SYMMETRICAL HEAD LAYOUT.
- 43. COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.
- 44. PROVIDE SEISMIC BRACING PER THE REQUIREMENTS OF THE IBC AND NFPA. 45. REPLACE ALL CEILING TILES AND GRID DAMAGED AS A RESULT OF THE WORK AT NO COST.
- 46. COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.
- 47. TEST SYSTEM IN PRESENCE OF AHJ PER NFPA 13 AND MAKE ANY CORRECTIVE ACTIONS REQUIRED.
- 48. SUBMIT REQUIRED CALCULATIONS AND DRAWINGS TO AHJ AND ENGINEER FOR APPROVAL. 49. THESE DOCUMENTS ARE PREPARED WITH THE UNDERSTANDING THAT THE BIDDING CONTRACTOR IS EXPERT IN THE
- BIDDING AND CONSTRUCTION OF A PROJECT OF THIS TYPE AND HAS VISITED THE SITE. THE DOCUMENTS ARE INTENDED TO DESCRIBE THE GENERAL DESIGN INTENT AND MAY NOT INDICATE ALL OFFSETS, DEVICES, APPURTENANCES, OR CONSTRUCTION DIFFICULTIES. THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND WORK REQUIRED FOR A CODE COMPLIANT, FULL FUNCTIONING SYSTEM WHETHER SHOWN ON THE DOCUMENTS OR NOT, AT NO COST TO PROJECT.

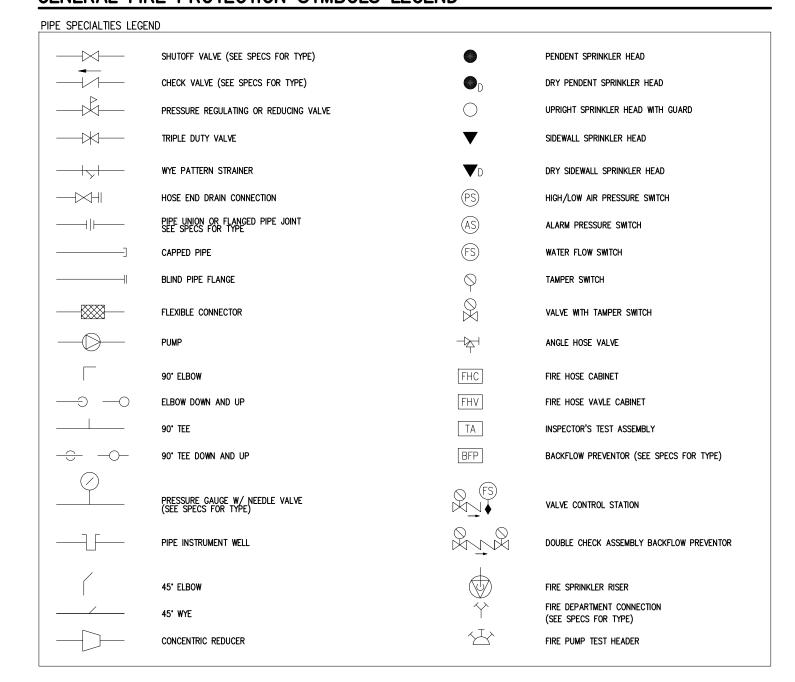
#### GENERAL FIRE PROTECTION NOTES

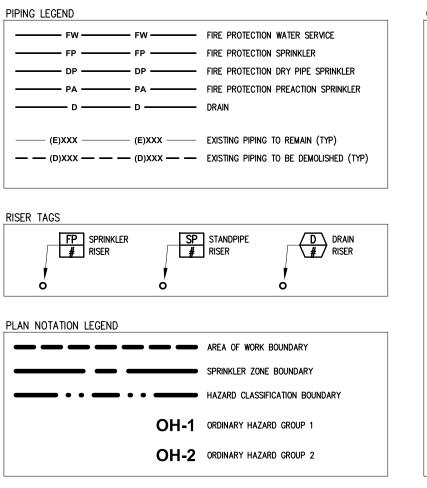
FIRE PROTECTION/ELECTRICAL COORDINATION NOTES I. THE FPC SHALL PROVIDE ALL FLOW SWITCHES AND SUPERVISORY SWITCHES. 2. THE EC SHALL PROVIDE ALL WIRING AND CONDUIT FROM FLOW AND SUPERVISORY SWITCHES TO THE FIRE ALARM PANEL. 3. THE EC SHALL MAKE ALL FINAL CONNECTIONS AT THE SWITCHES AND FIRE ALARM PANELS. 4. ALL VALVES EXCEPT DRAIN VALVES IN THE SYSTEM SHALL BE PROVIDED WITH SUPERVISORY SWITCHES. 5. THE FPC SHALL PROVIDE ALL HEAT DETECTORS FOR CLEAN AGENT SYSTEMS. 6. THE EC SHALL INSTALL ARE WIRE ALL HEAT DETECTORS.

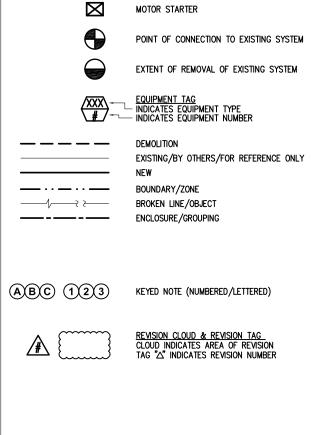
	HYDRANT TEST DATA	
DATE OF TEST:	//2014	
PRESSURE HYDRANT LOCATION:	CORNER OF XX STREET AND YY AVENUE	
FLOW HYDRANT LOCATION:	CORNER OF XX STREET AND YY AVENUE	
CITY AND STATE:	NOWHERE, PA 19XXX	
STATIC PRESSURE:	PSI	
RESIDUAL PRESSURE:	PSI	
FLOW RATE:	GPM	
AGENCY CONDUCTING TEST:	SOMEBODY	

	DESIGN CRITE	ERIA (WET SYSTEMS)	
HAZARD CLASSIFICATION	DENSITY (GPM/SF)	AREA OF APPLICATION (SF)	MAXIMUM SPRINKLER COVERAGE (SF/HEAD)
LIGHT HAZARD	0.10	1500	1500
ORDINARY HAZARD GROUP 1	0.15	1500	1500
ORDINARY HAZARD GROUP 2	0.20	1500	1500

#### GENERAL FIRE PROTECTION SYMBOLS LEGEND







GENERAL ABBREVIATIONS AIR COMPRESSOR ACCESS DOOR ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION BUILDING AUTOMATION SYSTEM BURRIS ENGINEERS, INC. BACKFLOW PREVENTOR BELOW BASIS OF DESIGN BOTTOM OF PIPE BOTTOM OF STEEL COMPRESSED AIR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CLEANOUT CONCRETE CONTINUE(D) (DOMESTIC) COLD WATER (PIPE) DOUBLE CHECK ASSEMBLY BACKFLOW PREVENTOR DIRECT DIGITAL CONTROL (SYSTEM) DEGREES (FAHRENHEIT UON) DOWN DRAWING EXISTING (TO REMAIN) EXISTING TO BE RELOCATED ELECTRICAL CONTRACTOR (DEGREES) FAHRENHEIT FLEXIBLE CONNECTOR FLOOR DRAIN FIRE DEPARTMENT CONNECTION FINISHED FLOOR ELEVATION FULL LOAD AMPS FIRE PROTECTION CONTRACTOR FEET PER MINUTE FEET PER SECOND FLOW SWITCH GALLONS GENERAL CONTRACTOR GALLONS PER MINUTE HIEGHT OR HIGH SPRINKLER HEAD HORSEPOWER FREQUENCY IN HERTZ INSIDE DIAMETER INVERT ELEVATION KILOVOLT-AMPS KII OWATTS KILOWATTS PER HOUR LENGTH POUNDS LOCKED ROTOR AMPS MAXIMUM MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY MOCP MOP RECEPTOR NEW (WORK) NORMALLY CLOSED NATIONAL FIRE PROTECTION ASSOCIATION (STANDARD/S) NORMALLY OPEN NOT TO SCALE OUTSIDE DIAMETER PUMP PLUMBING CONTRACTOR

MAXIMUM OVERCURRENT PROTECTIVE DEVICE (SIZE IN AMPERES) POST INDICATOR VALVE PRESSURE PRESSURE REDUCING OR REGULATING VALVE PRESSURE SENSOR OR SWITCH POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH, ABSOLUTE PRESSURE POUNDS PER SQUARE INCH, GAUGE PRESSURE QUANTITY REMOVE RELOCATED EXISTING RUN ABOVE CEILING RUN BELOW FLOOR RUNNING LOAD AMPS REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE BACKFLOW PREVENTOR SECONDS SQUARE FEET STRUCT STRUCTURE(AL) TEMP TFMPERATURE TOP OF STEEL TYPICAL UNLESS OTHERWISE NOTED VOLTS VARIABLE FREQUENCY DRIVE VERIFY IN FIELD WATTS OR WIDTH

> WITH WITHOUT

TRANSFER TRANSFORMER

W/0

XFER XFMR

REVISIONS

REVISIONS

ISSUE DATE

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

**SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103

215 985 4410 fax 985 4430

BURRIS ENGINEERS, INC 716 N. BETHLEHEM PIKE, SUITE 201 LOWER GWYNEDD, PENNSYLVANIA 19002 215 643 4465 fax 215 643 4481 jburris@burrisengineers.com

#### CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

MARTIN LUTHER KING OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

FIRE PROTECTION -COVER SHEET

DRAWING NO.

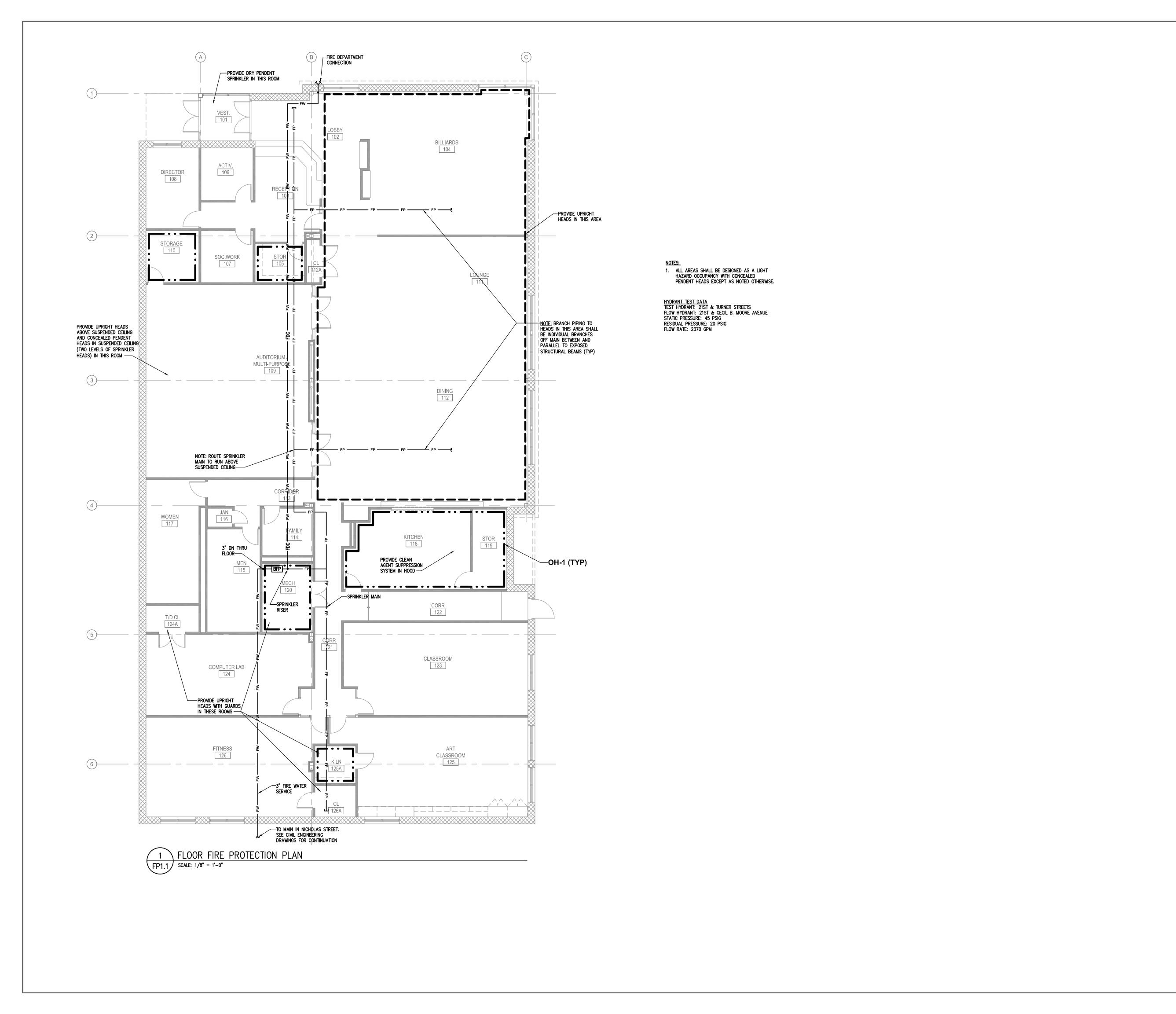
PROJECT NO. 20-11-4199-99

7-2-2015

AS NOTED DMJ

CHECKED BY JIB,DMJ (2015P009)

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



REVISI	ONS
ISSUE DATE	REVISIONS
DESIGN DEVE	LOPMENT
PROJECT COORDINATOR	
MICHELLE S	HUMAN
<b>SMPARCHITECTS</b> 1600 Walnut Street, 2nd Floor	
Philadelphia, Pennsylvania 19103 215 985 4410 fax 985 4430	
BURRIS ENGINEERS, INC 716 N. BETHLEHEM PIKE, SUITE 201	
LOWER GWYNEDD, PENNSYLVANIA 19 215 643 4465 fax 215 643 4481	002
jburris@burrisengineers.com	
CITY OF PHIL  DEPARTMENT OF PU	
1515 ARCH	STREET
11TH FLOOR, ONE PA	RKWAY BUILDING PENNSYLVANIA
PROJECT TITLE	J.C.
MARTIN LUTHER KIN OLDER ADULT CENT	
21ST STREET & CECIL B. PHILADELPHIA, PA 19121	MOORE AVENUE
DRAWING TITLE	DI O N
FIRE PROTECT FLOOR PLANS	IION —
PROJECT NO.	DRAWING NO.
20-11-4199-99	
7-2-2015 SCALE 15 NOTED	FP1.1
AS NOTED  DRAWN BY DMJ	
CHECKED BY JIB,DMJ	
NOTE: ALL DIMENSIONS AND CO VERIFIED BY THE CONTR. BEFORE PROCEEDING	ONDITIONS SHALL BE

#### GENERAL ELECTRICAL SYMBOLS LEGEND

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES, INCLUDING THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) NFPA 70, AND WITH THE REQUIREMENTS/AMENDMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- 2. CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE.
- 3. ALL OF THE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER AND IN ACCORDANCE WITH INDUSTRY STANDARDS.
- 4. EACH FEEDER AND BRANCH CIRCUIT SHALL INCLUDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH NEC ARTICLE 250.
- 5. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE PERMITTED. EACH 120V BRANCH CIRCUIT SHALL INCLUDE DEDICATED NEUTRAL AND INSULATED GROUNDING CONDUCTORS. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH NEC ARTICLE 250.
- 6. TRUNKING OR GROUPING OF BRANCH CIRCUITS AND FEEDERS SHALL BE PERMITTED, PROVIDED THAT THE NEC RULES PERTAINING TO MAXIMUM ALLOWABLE PERCENT FILL OF RACEWAYS, AND AMPACITY OF ADJUSTMENT FACTORS FOR MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY ARE STRICTLY COMPLIED WITH. THE CONTRACTOR SHALL EXERCISE GREAT CAUTION IN
- PROVIDING AN EQUAL NUMBER OF A, B, AND C PHASE CONDUCTORS WHEN GROUPING CIRCUITS. 7. TROUGHS, JUNCTION AND PULL BOXES ARE NOT NECESSARILY INDICATED, BUT SHALL BE PROVIDED WHERE MANDATED BY THE NEC, AND AS REQUIRED FOR EASE OF INSTALLATION. BOXES SHALL
- BE SIZED (MINIMUM) IN ACCORDANCE WITH NEC ARTICLE 314. TROUGHS SHALL BE SIZED PER NEC ARTICLE 366. 8. FEEDER AND BRANCH CIRCUIT WIRING ARE DEPICTED BY ASSIGNMENT OF CIRCUIT NUMBERS, INTERCONNECTING WIRING AND HOMERUNS, OR HOMERUNS ONLY (FOR SINGULAR LOADS). ALL FEEDERS AND BRANCH CIRCUITS ARE NEW TO BE PROVIDED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED. INTERIOR WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT AND/OR EMT, 3" MINIMUM.
- 9. ALL NEW 600V OVER-CURRENT PROTECTIVE DEVICES SHALL HAVE INTERRUPTING CAPABILITIES OR RATINGS (AIC OR AIR) IN RMS AMPERES SYMMETRICAL. ALL DEVICES SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT. ALL PANELBOARDS, SWITCHBOARDS, MDPS, DEVICES, ETC. SHALL BE FULLY RATED.

FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT, OR MC CABLE SHALL BE UTILIZED IN LIMITED LENGTHS AS NECESSARY, OR AS REQUIRED/ALLOWED BY CODE.

- 10. ALL BUILDING WIRE SHALL BE COPPER CONDUCTORS, TYPE THHN/THWN-2 (DUAL LISTED) 90 DEGREE CELSIUS RATED INSULATION, #12 AWG MINIMUM. UTILIZE #10 AWG WIRE FOR ANY 15A OR 20A,
- 120V CIRCUIT THAT EXCEEDS 100 FEET FROM SOURCE TO LAST DEVICE OR OUTLET. 11. DO NOT THROUGH-FEED WITH GFCI RECEPTACLES FOR DOWNSTREAM DEVICE PROTECTION. EACH WIRING DEVICE REQUIRED TO HAVE GFCI PROTECTION SHALL BE STAND-ALONE.
- 12. CONTRACTOR SHALL PROVIDE AND INSTALL AN APPROVED, UL LISTED, FIRE STOP SEALANT, TOTALLY ENCLOSING ALL PENETRATIONS THROUGH RATED CEILINGS, WALLS, ROOFS, FLOORS, ETC. ALL FLOOR PENETRATIONS SHALL BE CORE-DRILLED, SLEEVED AND SEALED WITH AN APPROVED FIRE RATED SEALANT. CONTRACTOR SHALL SUBMIT LETTER TO OWNER THAT THE REQUIRED FIRE SEALANT WAS INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- 13. BRANCH CIRCUIT FOR FACP SHALL MEET THE REQUIREMENTS OF SECTION 4.4.1 OF NFPA 72.
- 14. EGRESS AND EMERGENCY LIGHTING SHALL BE CONNECTED AND INSTALLED TO MEET THE REQUIREMENTS OF NEC 700.12(F), 700.15, 700.16, AND 700.17. CONSULT THE ARCHITECT, BUILDING INSPECTOR OR THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE FOR EXACT LOCATIONS. FINAL LÒCATIONS SHALL BE BASED ON EGRESS PATHS GIVEN BY ARCHITECT, AND SHALL BE APPROVED BY CITY OF PHILADELPHIA, DEPARTMENT OF LICENSES AND INSPECTIONS.
- 15. THE CONTRACTOR SHALL PERFORM THE WORK AS INDICATED ON THE DRAWINGS. ANY DEVIATIONS FROM THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN WRITING. IF CHANGES ARE MADE WITHOUT THE ENGINEER'S WRITTEN CONSENT, THE CONTRACTOR SHALL BE LIABLE FOR ANY ISSUES THAT MAY ARISE DUE TO THE CHANGES.
- 16. UNLESS OTHERWISE NOTED, ALL WIRE SIZES SHALL BE BASED ON THE FOLLOWING:
- a. #14 THROUGH #1 OR 100A OR LESS TABLE 310.16 60° COLUMN
- b. #1/0 AND GREATER OR 101A OR GREATER TABLE 310.16 75° COLUMN
- c. OTHER ALLOWANCES OF 110.14(C)
- 17. UNLESS OTHERWISE NOTED, ALL CONDUIT SIZES SHALL BE BASED ON EMT, RMC, OR RNC (PVC SCHEDULE 40).
- 18. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE NEW, LABELED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY OR AGENCY (E.G. UL), UNLESS
- 19. ELECTRICAL CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ALL EQUIPMENT IF NOT INDICATED ON DRAWINGS. IF THERE IS A DISCREPANCY, MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE.
- 20. THE EC SHALL FURNISH ALL EQUIPMENT, LABOR, SERVICES, AND MATERIALS REQUIRED FOR COMPLETE INSTALLATION OF THE WORK INDICATED. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE
- 21. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO EQUIPMENT.
- 22. ALL WIRING, EQUIPMENT, STARTERS AND CONTROLS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AND TO THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- 23. ALL WIRING METHODS SHALL BE NEC COMPLIANT AND MEET THE REQUIREMENTS OF THE SPACE, OCCUPANCY & CONDITION OF USE.
- 24. THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF ITEMS SHOWN ON THIS DRAWING SHALL FIELD VERIFY THE EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER FOR
- CORRECTION, EDITING, RECALCULATION, ETC. AS REQUIRED.
- 25. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY AND CONFIRM ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES ON THE DRAWINGS. COPIES OF THIS DRAWING WITHOUT A PROFESSIONAL ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL NOT BE CONSIDERED VALID AND ARE FOR CONVENIENCE TO THE USER AT THEIR OWN RISK.
- 26. ALL WORK SHALL COMPLY WITH THE LATEST REVISION OF THE LOCAL UTILITY'S ELECTRICAL SERVICE REQUIREMENTS (PECO ENERGY'S BLUE BOOK) COORDINATE ALL SERVICE WORK WITH UTILITY PRIOR TO INSTALLATION. OBTAIN UTILITY APPROVAL BEFORE ENERGIZING NEW WORK. NOTIFY PECO'S NEW BUSINESS SERVICES (FORMERLY CBS) VIA S&M APPLICATION. OBTAIN PECO REQUIREMENTS & DELINEATION OF RESPONSIBILITIES IN WRITING, ESPECIALLY FOR MEDIUM VOLTAGE WORK AND FOR METERING REQUIREMENTS OF MULTI-TENANT BUILDINGS.
- 27. CALL BEFORE YOU DIG (PA ONE CALL SYSTEM 1-800-242-1776 OR DIAL 811). EC TO HIRE AN INDEPENDENT UTILITY LOCATING COMPANY TO MARK-OUT CUSTOMER OWNED/PRIVATE PROPERTY FACILITIES BEFORE DIGGING AT EC'S EXPENSE.
- 28. COORDINATE INSTALLATION OF PIPING, DUCTS AND EQUIPMENT TO AVOID PASSAGE OVER ELECTRICAL PANELS, THROUGH ELECTRICAL CLOSETS, ETC. IN COMPLIANCE WITH CODE.
- 29. CONTRACTOR TO PLACE NEW EQUIPMENT, RELOCATE CURRENTLY INSTALLED EQUIPMENT, OR RE-WORK EXISTING ROOM AS REQUIRED TO COMPLY WITH WORKING CLEARANCE ISSUES, DEDICATED SPACE ISSUES, AND WITH APPLICABLE CODES. 30. EXACT DIMENSIONS/SQUARE FOOTAGES OF BUILDING AND ALL SPACES/AREAS MUST BE VERIFIED IN THE FIELD. IF A MATERIAL DIFFERENCE IS DISCOVERED, THE EC IS RESPONSIBLE TO NOTIFY
- ENGINEER AND COORDINATE THE NECESSARY CORRECTIONS TO ALL CALCULATIONS AS REQUIRED.
- 31. FURNISH ALL NECESSARY MATERIALS, TOOLS AND LABOR AND INSTALL A COMPLETE AND FULLY OPERABLE WIRING SYSTEM AS INDICATED OR REASONABLY IMPLIED. ALL OUTLETS SHALL BE FULLY CONNECTED TO SOURCES OF CURRENT SUPPLY AND LEFT READY FOR USE. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND BE UL LISTED.
- 32. CONTRACTOR SHALL MEET INSTALLATION CRITERIA FOR SEISMIC REQUIREMENTS IN PROJECT LOCATION.
- 33. ALL SMALL MOTORS UNDER 1 HORSEPOWER SHALL HAVE INTEGRAL OVERLOAD PROTECTION PER NEC 430.32 AND 430.53(A) IF PLANNING TO BE INSTALLED ON ONE BRANCH CIRCUIT DUE TO SMALL
- 34. THE EC IS RESPONSIBLE FOR THE CONSTRUCTABILITY OF THE DRAWINGS FROM A PRACTICAL AND EXISTING FIELD CONDITIONS PERSPECTIVE.
- 35. WITH RESPECT TO CONSTRUCTION BASED ON THESE DRAWINGS, THE EC IS ULTIMATELY RESPONSIBLE FOR ALL INSTALLED MEANS AND METHODS MEETING ALL APPLICABLE CODES AND STANDARDS. 36. IT HAS BEEN ASSUMED THAT ALL CONDUITS FOR ROOFTOP EQUIPMENT WILL BE INSTALLED WITHIN THE BUILDING AND WILL PENETRATE UP TO THE ROOF DIRECTLY BENEATH THE EQUIPMENT. IF THE CONDUIT IS TO BE INSTALLED EXPOSED TO DIRECT SUNLIGHT ON OR ABOVE THE ROOF, CONTRACTOR SHALL DERATE THE CONDUCTORS PER NEC TABLE 310.15(B)(2)(C) AND SHALL INCREASE CONDUCTOR/CONDUIT SIZE AS REQUIRED.
- 37. ALL NON-LOCKING 15A AND 20A, 125V AND 250V RECEPTACLES INSTALLED IN WET AND DAMP LOCATIONS SHALL BE LISTED WEATHER-RESISTANT TYPE AND SHALL CONTAIN A WEATHERPROOF ENCLOSURE PER NEC 406.8(A) AND (B).
- 38. ALL LUMINAIRES INSTALLED IN WET AND DAMP LOCATIONS SHALL MEET NEC 410.10(A).
- 39. ALL SWITCHES AND CIRCUIT BREAKERS INSTALLED IN WET AND DAMP LOCATIONS SHALL MEET NEC 404.4.
- 40. ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED PER NEC 110.16.
- 41. ALL FLUORESCENT LUMINAIRES SHALL CONTAIN DISCONNECTING MEANS PER NEC 410.130(G).
- 42. INSTALL RECEPTACLES PER NEC 210.63 FOR THE SERVICING OF HEATING, AIR—CONDITIONING, AND REFRIGERATION EQUIPMENT, AND FOR OTHER EQUIPMENT LIKELY TO BE SERVICED.
- 43. UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS ARE BASED ON INVERSE TIME TYPE AND ALL FUSES ARE BASED ON DUAL ELEMENT TIME-DELAY TYPE.
- 44. ALL ELECTRICAL DRIVEN EQUIPMENT PROVIDED OR FURNISHED BY THE MECHANICAL CONTRACTOR SHALL INCLUDE MOTORS, PUSH BUTTONS, RELAYS, CONTACTORS, DISCONNECTS & ALL OTHER CONTROLLING DEVICES REQUIRED FOR PROPER AND SATISFACTORY OPERATION OF THE EQUIPMENT. EC SHALL INSTALL EQUIPMENT AS REQUIRED FROM THE LINE SIDE OF THE LAST DISCONNECTING MEANS (INCLUDING SUPPLIED DISCONNECT) BACK TO POWER SOURCE. ALL DDC AND OTHER CONTROL WIRING (INCLUDING VFDS) SHALL BE SUPPLIED AND INSTALLED BY MC.
- 45. EACH CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS OF ALL TRADES AND REVIEW ALL PROJECT REQUIREMENTS PRIOR TO BIDDING. DISCREPANCIES BETWEEN DOCUMENTS SHALL BE REPORTED BEFORE BIDS ARE DUE TO ALLOW FOR RESOLUTION AS REQUIRED.
- 46. THE EC SHALL VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY EFFECT HIS WORK. THE EC SHALL NOT BE ENTITLED TO CHANGE ORDER(S) DUE TO FAILURE TO COMPLY. 47. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT AND MATERIAL (AND METHODS WHEN SPECIFICALLY REQUESTED) BEING USED IN THE COURSE OF THE WORK. A MINIMUM OF SEVEN
- (7) COPIES AND/OR AS REQUEST BY OWNER SHALL BE SUBMITTED FOR REVIEW. PURCHASE OF OR INSTALLATION OF MATERIALS OR SYSTEM PARTS SHALL NOT PROCEED UNTIL REVIEWED SHOP DRAWINGS/CATALOG CUTS ARE RETURNED TO THE SUBMITTING CONTRACTOR. ACCESSORIES SCHEDULED SHALL BE PROVIDED BY THE UNIT MANUFACTURER OR, IF NOT A FACTORY STANDARD, BY
- 48. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT AND FINAL LOCATIONS OF ALL CEILING MOUNTED DEVICES AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, EXIT SIGNAGE, ETC, VERIFY IN FIELD.
- 49. COORDINATE WITH OTHER TRADES FOR ROUGH-IN SUPPORT AS REQUIRED.

AND AT THE CONVENIENCE OF THE OWNER.

- 50. PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE TESTED, BALANCED AND OPERATED TO DEMONSTRATE TO THE OWNER THAT THE INSTALLATION AND PERFORMANCE OF THE INSTALLED SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- 51. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A MINIMUM PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER PARTS OF THE BUILDING DAMAGED THEREBY, SHALL BE REPAIRED, REPLACED OR OTHERWISE REMEDIED WITHOUT EXPENSE TO THE OWNER. SUCH REPAIRS OR REPLACEMENTS SHALL BE MADE IN A TIMELY MANNER
- 52. WIRING DEVICES AND OUTLET BOXES SHALL BE RECESSED IN NEW CONSTRUCTION, WITH CONCEALED CONDUIT OR CABLE EXTENSIONS.
- 53. UPON COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THREE (3) COMPLETE SETS OF MANUFACTURERS' OPERATING, MAINTENANCE AND PREVENTIVE MAINTENANCE INSTRUCTIONS (IN BOUND BOOK FORM) INCLUDING PARTS LIST, AND COMPLETE PROCUREMENT INFORMATION SPECIFYING EQUIPMENT NUMBERS AND DESCRIPTIONS. OPERATING STAFF PERSONNEL SHALL BE INSTRUCTED AS TO PROPER OPERATING AND SERVICE REQUIREMENTS OF THE SYSTEMS AND EQUIPMENT.
- 54. CONTRACTOR SHALL UPON COMPLETION OF THE WORK, SUBMIT A SET OF RECORD DRAWINGS SHOWING ALL BURIED OR CONCEALED EQUIPMENT OF PARTS OF THE WORK.
- 55. ALL COMMUNICATIONS WORK SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE NEC, AND ALL INDUSTRY STANDARDS (BICSI, TIA/EIA, ETC.).
- 56. VOICE/DATA JACK LOCATIONS ARE SCHEMATICALLY SHOWN. ALL LOCATIONS ARE TO BE FINALIZED BY CLIENT'S I.T. DEPARTMENT AND TENANT. 57. UPON COMPLETION OF ALL WORK, THOROUGHLY CLEAN ALL SYSTEMS OF OBSTRUCTIONS, DEBRIS, SCALE, DUST, DIRT, ETC. AND PLACE SYSTEMS IN OPERATION.
- 58. THE CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC.
- 59. ALL EXPOSED CONDUIT SHALL BE PAINTED (1 COAT PRIMER, 2 COATS FINISH) TO MATCH ADJACENT AREA.
- 60. ALL ELECTRICAL EQUIPMENT AND RECEPTACLES SHALL BE LABELED WITH BRANCH CIRCUIT INFORMATION (PANEL AND CIRCUIT NUMBER).

#### GENERAL ELECTRICAL SYMBOLS LEGEND

FIRE ALARM LEGEND

BEAM DETECTOR (SEE NOTATIONS BELOW)

BOOSTER POWER SUPPLY (TYPICAL)

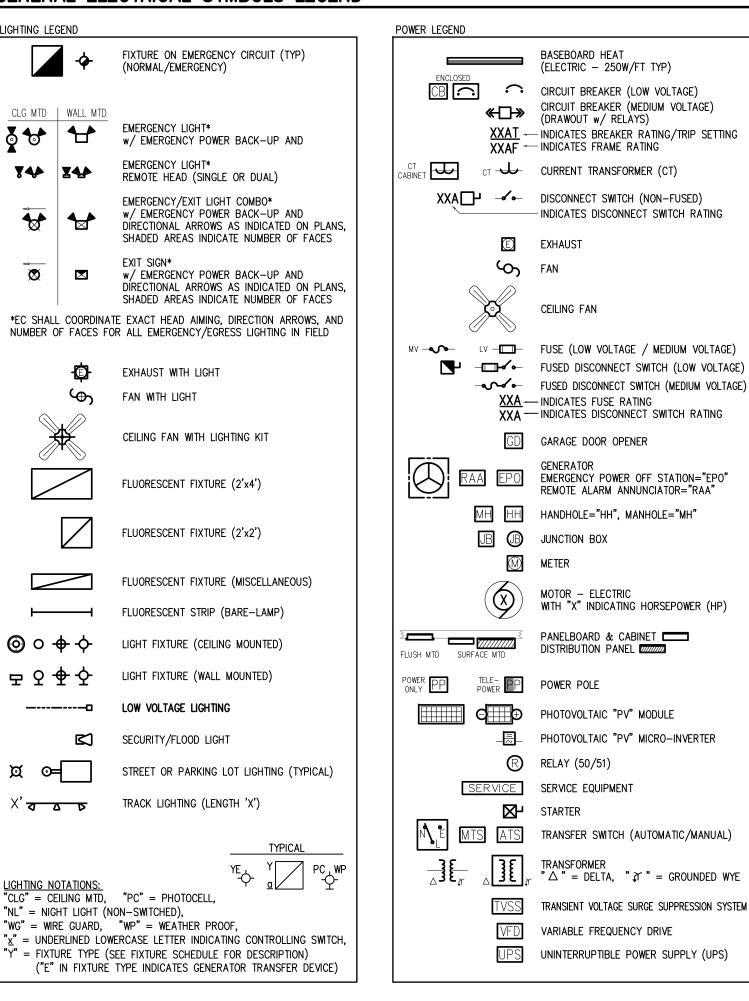
CARBON MONOXIDE DETECTOR

CIRCUITING:
"Nx: y" = NAC# x: DEVICE# y, "Ix: y" = IDC ZONE# x: DEVICE# y,

'WP" = WEATHER PRÓOF

"Sx: y" = SLC LOOP# x: DEVICE# y

61 68 (B



DU	DH	DOOR HOLDER/DOOR UNLOCKING DEVICE (MAGNETIC) (DOOR HOLDER=DH, DOOR UNLOCKING DEVICE=DU)	\$0,3 \$	00		SENSOR (WALL MOUNTED) CH WSD-PDT-LV (180°, 20' RAD.)
	R	DUCT DETECTOR RELAY (FOR AHU SHUTDOWN')	10,5 10			SENSOR (CEILING MOUNTED)
	}	END-OF-LINE RESISTOR (EOL)		S) "C	" = SENS	OR SWITCH CM-PDT (360°, 12' RADIUS) OR SWITCH CM-PDT-10 (360°, 28' RADIUS
[	FACP	FIRE ALARM CONTROL PANEL	   PC (PC	_		CEILING MTD "○", WALL MTD "□")
		FIREFIGHTER'S TELEPHONE			,	,
	<b>①</b>	HEAT ALARM (110V) (FIXED TEMPERATURE/RATE-OF-RISE)	\$	SW × IND	ITCH WITH ICATING FI	UNDERLINED LOWERCASE LETTER XTURE(S) CONTROLLED BY SWITCH
	<b>(</b> )	HEAT DETECTOR (24V SYSTEM HEAT DETECTOR) (FIXED TEMPERATURE/RATE-OF-RISE)	\$,		TCH USED -PB-C-X	WITH LIGHTING CONTROL SYSTEM X-5)
		HORN	\$	SW #,a US	TCH WITH	NUMBERS AND/OR LETTERS INDICATING FUNCTION (TYP) (SEE NOTATIONS BELOW)
[	KHSS	KITCHEN HOOD SUPPRESSION SYSTEM (BY OTHERS)			- · · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,
М ММ	RM	MODULE (CONTROL=CM, MONITOR=MM, RELAY=RM)	SWITCH N "3" = TH	REE-WA	′, "4" =	FOUR-WAY, "DS" = DOOR SWITCH,
<b>(3)</b>	<b>②</b>	MULTI-SENSOR (SMOKE/CO, SMOKE/HEAT)	<b>"</b> LC" = U	ISED WITH	LIGHTING	R, "F" = CONTROLS CEILING FAN, CONTROL SYSTEM, "P" = PULL CHAIN,
	PH	PHONE LINE	"OD" = D	DUAL TEC	HNOLOGY	RTER, "O" = OCCUPANCY SENSOR, OCCUPANCY SENSOR,
	•	PULL STATION	" <u>x</u> " = UN CONTROLL			SE LETTER INDICATING FIXTURE(S)
	AN	REMOTE ANNUNCIATOR				
	RTS	REMOTE TEST SWITCH FOR DUCT DETECTOR	LOW VOLTA	AGE LEGE	ND	
	0	SMOKE ALARM (110V)	CEILING	MOUNTING FLOOR	<u>}</u>   WALL	
	0	SMOKE DETECTOR (24V SYSTEM SMOKE DETECTOR)	0			CLOCK OUTLET
2	<b>②</b> ?	SMOKE DETECTOR (24V DUCT SMOKE DETECTOR)	<b>⊘</b>	▼	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	COAXIAL OUTLET
FS	TS	SPRINKLER SYSTEM (FLOW SWITCH=FS, TAMPER SWITCH=TS)	$\bigcirc$		7	DATA SYSTEM OUTLET (CAT-6 CABLE)
G MTD	WALL MTD	STROBE & STROBE COMBINATION w/ CANDELA XXcd -STROBE ONLY	_	_	$\Psi$	INTERCOM STATION DOOR RELEASE MASTI (LOCATED IN EACH APARTMENT)
		-CHIME/STROBE COMBINATION				INTERCOM STATION NOTIFICATION EQUIPME
	<b>⊠</b> 1	-HORN/STROBE COMBINATION				(LOCATED AT EXTERIOR ENTRANCES)
		-SPEAKER/STROBE COMBINATION	(S)		S	SPEAKER OUTLET
	'		•	▼	<b>Y</b>	TELEPHONE OUTLET (CAT-6 CABLE)
			<b>®</b>	$\overline{\forall}$	7	TELEVISION &/OR CABLE OUTLET
			•	V	7	VOICE/DATA OUTLET (COMBINATION) *VOICE (CAT-6 CABLE) *DATA (CAT-6 CABLE)
" = BE T" = B R" = E	EAM DETECT	NS:  OR TRANSMITTER/RECEIVER, "XXXcd" = CANDELA,  OR TRANSMITTER, "CLG" = CEILING MTD,  OR RECEIVER, "CO" = CARBON MONOXIDE,  OR RECEIVER, "CO" = CARBON MONOXIDE,  OR RECEIVER, "CO" = CARBON MONOXIDE,			ÖÖ	SECURITY CAMERA (FIXED)
SD" =		/HEAT ALARM, "WG" = WIRE GUARD,		ı	I	1V/20

"WG" = WIRE GUARD,

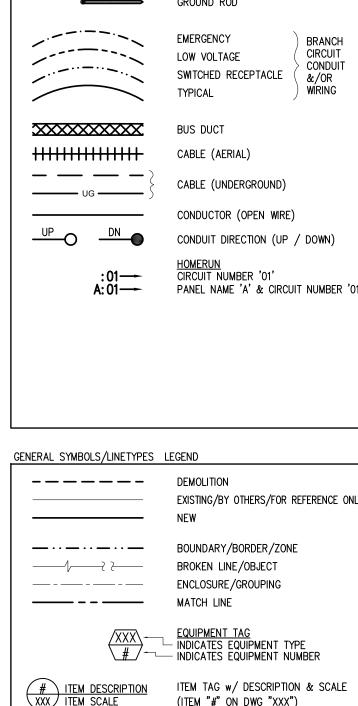
"xV/yD" = NUMBER OF VOICE JACKS "x" AND DATA JACKS "y"

SWITCH LEGEND (20A, 120-277VAC)

DIMMER

SINGLE-POLE

THREE-WAY / FOUR-WAY

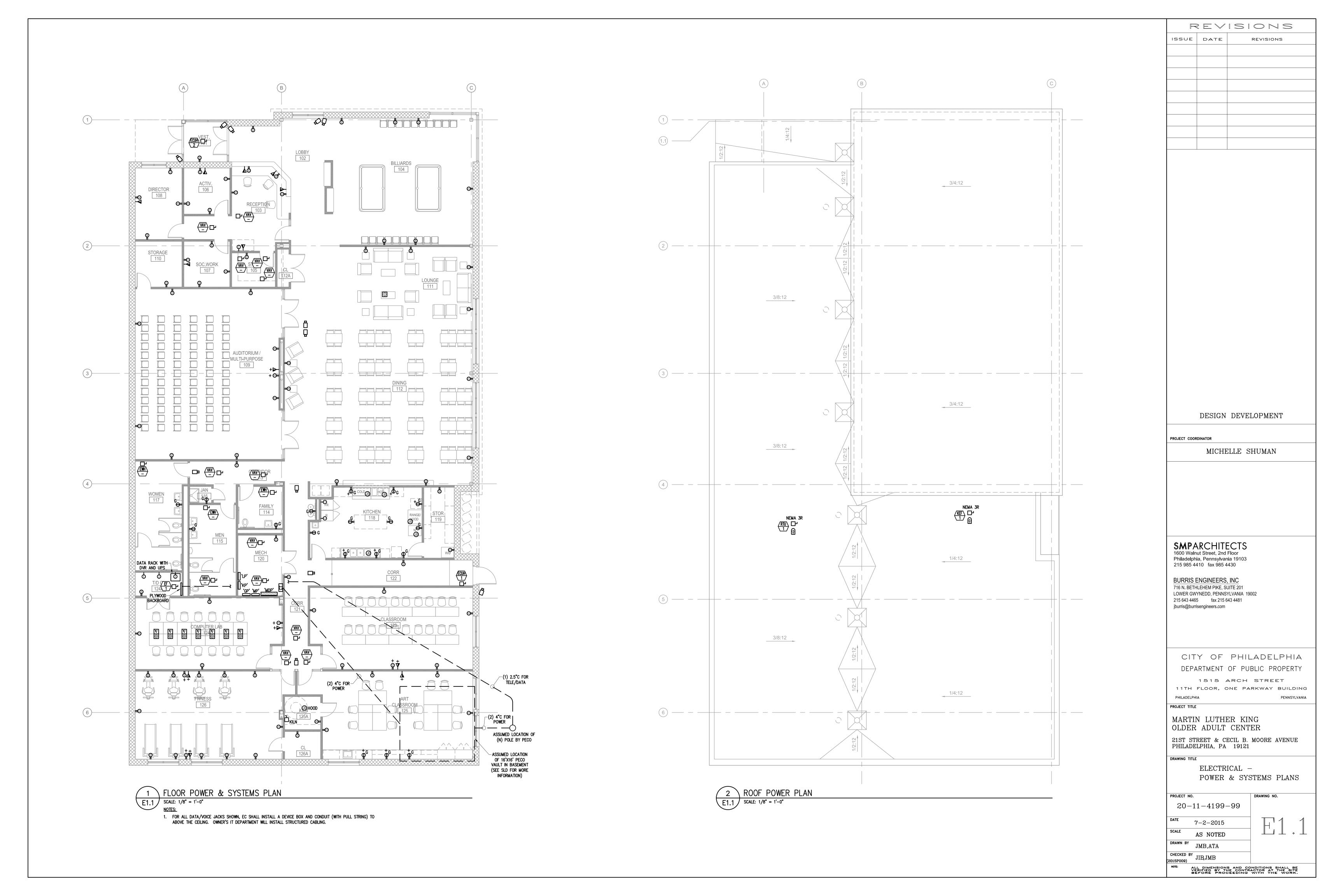


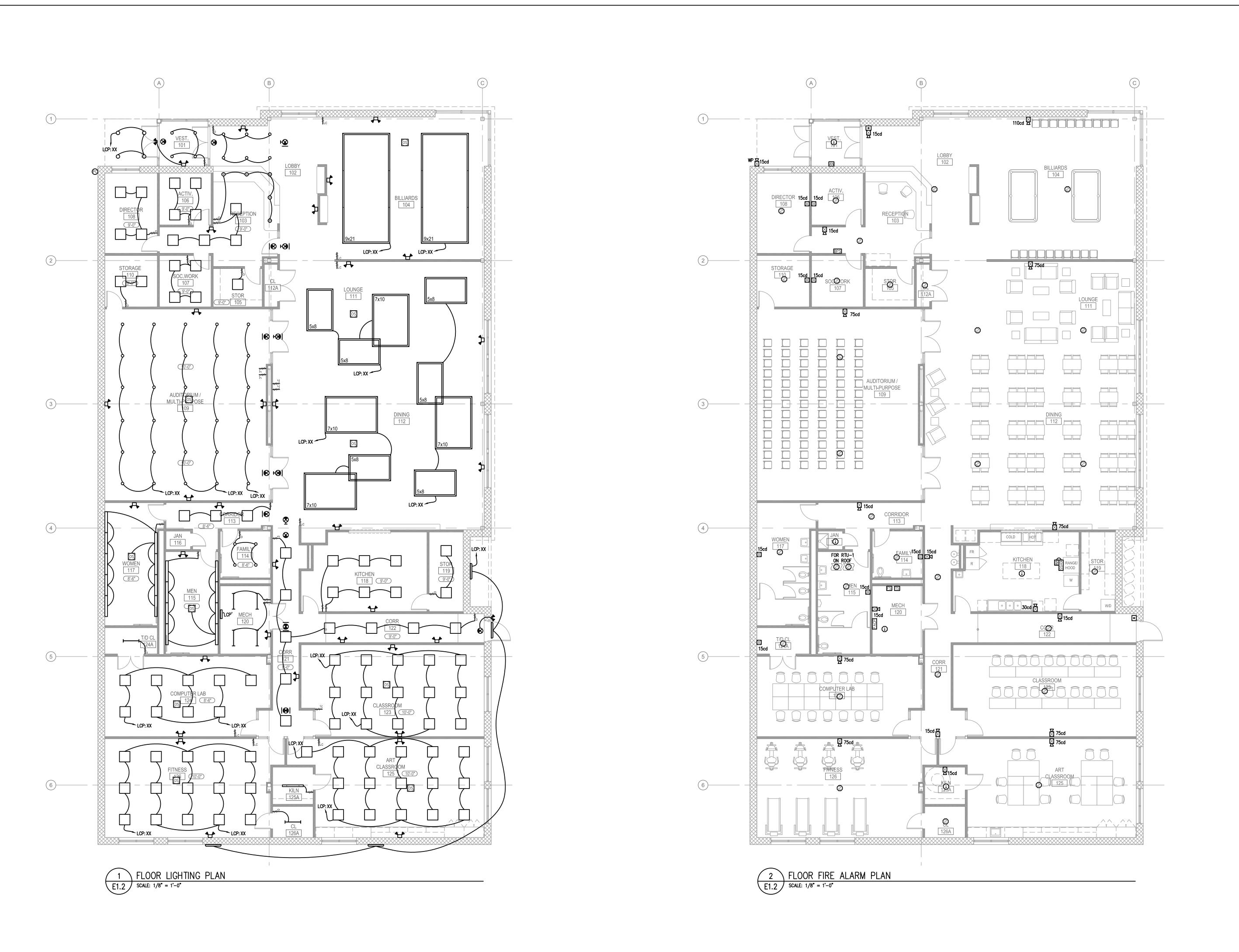
TYPICAL

EPTACLE L	EGEND		A A/C, AC	AMPERE AIR CONDITIONING OF ARMORED CABLE OF ALTERNATING CURRENT
NEMA		RECEPTACLE OUTLET	ADD#x ADD—ALT# <u>x</u>	ADDENDUM #_ ADD ALTERNATE #_
<u>NEMA</u>	•	CIRCUITS), NEMA 5-20R(20A CIRCUITS)	AF	AMP FRAME
TAMPER RESISTANT	NON- TAMPER RESISTANT	_	AFCI AFF	ARC-FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR
KESISTAINT	O-	<u>WALL_MOUNTED</u>	AHJ AHU	AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT
⊫	<b>=</b>	DUPLEX	AIC AL	AMPERE INTERRUPTING CAPACITY ALUMINUM
<b>=</b>	₩=	QUADPLEX	AMP	AMPERE
	<b>O</b> -	SINGLE PARTICIPATION OF THE PA	AT ATS	AMP TRIP AUTOMATIC TRANSFER SWITCH
	<b>O</b> =	EMERGENCY POWER - DUPLEX EMERGENCY POWER - QUADPLEX	AWG BEI	AMERICAN WIRE GAUGE BURRIS ENGINEERS, INC.
- 3=	G <b>⊖</b> =	GFCI - DUPLEX	BKR BLDG	BREAKER BUILDING
<u></u>	G <b>⊕</b> =	GFCI — QUADPLEX	B.O.D.	BASIS OF DESIGN
<b>}</b> -	M <del>-</del>	DEDICATED RECEPTACLE OUTLET FOR FIXED	C CB	CONDUIT CIRCUIT BREAKER
	_	MICROWAVE INSTALLED ABOVE COUNTERTOP	CCT cd	CIRCUIT CANDELA
=	<b>=</b>	SPLIT-WIRED/SWITCHED	CLG	CEILING OF CEILING MOUNTED
	<b>\(\rightarrow\)</b>	SPECIAL PURPOSE CONNECTION OR PROVISION FOR CONNECTION	cmil CONC	CIRCULAR MILS CONCRETE
		WEATHER-RESISTANT LISTED, WITH	CONT CT	CONTINUE(OUS) CURRENT TRANSFORMER
		WEATHERPROOF COVER AND GFCI FUNCTION	CU CUH	COPPER CABINET UNIT HEATER
		CEILING MOUNTED (11) (TYP)	(D)	DEMOLISH
)	<b>©</b>	SINGLE	DISC DN, DWN	DISCONNECT SWITCH DOWN
		DUPLEX QUADPLEX	D <b>W</b> D <b>W</b> G	DISHWASHER DRAWING
			(E) EBJ	EXISTING TO REMAIN EQUIPMENT BONDING JUMPER
D	<b>(1)</b>	GFCI - DUPLEX	EC	ELECTRICAL CONTRACTOR
_	<b>(a)</b>	SPECIAL PURPOSE CONNECTION OR PROVISION FOR CONNECTION	EF EGC	EXHAUST FAN EQUIPMENT GROUNDING CONDUCTOR
			ELEC ELEV	ELECTRICAL ELEVATOR
_		FLOOR/SURFACE MOUNTED (TYP)	EMERG, EMG	EMERGENCY
		SINGLE DUPLEX	EMT (ER)	ELECTRICAL METALLIC TUBING EXISTING TO BE RELOCATED
		QUADPLEX	ÈWĆ EWH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER
_		SPECIAL PURPOSE CONNECTION OR	FA	FIRE ALARM
_		PROVISION FOR CONNECTION	FAAP FACP	FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL
			FMT FMC	FLEXIBLE METALLIC TUBING FLEXIBLE METAL CONDUIT
			G, GRD GC	GROUND(ING) GENERAL CONTRACTOR
			GD	GARBAGE DISPOSAL
[ACIE I	NOTATIONS:		GEC GFI, GFCI	GROUNDING ELECTRODE CONDUCTOR GROUND FAULT CIRCUIT INTERRUPTER
ABOVE	COUNTER.	"+X" = HEIGHT AFF (X INCHES), COOLER, "EP" = EXPLOSION PROOF,	GFPE HP	GROUND FAULT PROTECTION FOR EQUIPMENT HORSEPOWER
ROUN ROUN	D FAULT CIR(	COULER, EP = EXPLOSION PROOF,  CUIT INTERRUPTER, "CLG" = CEILING MTD,  = ISOLATED GROUND, "SB" = SMARTBOARD,	НТ	HEIGHT or HIGH TENSION
PROJE	ECTOR, "TV	" = TSULATED GROUND, SB = SMARTBOARD,  " = TELEVISION,  T, "UC" = UNDER COUNTER/CABINET,	HV HVAC	HIGH VOLTAGE (GREATER THAN 69kV) HEATING/VENTILATING/AIR CONDITIONING
EDICA	ATED FOR FIX	ED MICROWAVE INSTALLED ABOVE COUNTERTOP, MITH LISTED COVERPLATE FOR WET LOCATIONS	HW, HWH I, IG	HOT WATER HEATER ISOLATED GROUND
11LA I	TILLY LINOUT V	LIGIED OUTENI ENTE FOIL THE LOUNTING	IBT	INTERSYSTEM BONDING TERMINATION INTERMEDIATE METAL CONDUIT
TORS/	CONDUIT SYM	BOLS/LINETYPES LEGEND	IMC JB	JUNCTION BOX
	<u> </u>	GROUND BAR	k kcmil	KILO- THOUSAND CIRCULAR MILS
•	<u> </u>		LFMC LGT, LT(G)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT LIGHT(ING)
•		GROUND ROD	LV	LOW VOLTAGE (0 TO 600V)
	·· 	EMERGENCY BRANCH	MAX MC	MAXIMUM METAL—CLAD CABLE or MECHANICAL CONTRACTOR
. — · ·		LOW VOLTAGE CIRCUIT CONDUIT SWITCHED RECEPTACLE &/OR	MCB MCP	MAIN CIRCUIT BREAKER MOTOR CIRCUIT PROTECTOR
		TYPICAL WIRING	MDP	MAIN DISTRIBUTION PANEL
~~	****	BUS DUCT	MECH MIN	MECHANICAL MINUMUM
	****** *******************************		MLO MOCP	MAIN LUG ONLY MAXIMUM OVERCURRENT PROTECTIVE DEVICE
T		• )	MTD MV	MOUNTED MEDIUM VOLTAGE (2.4kV TO 35kV)
—	UG ———	CABLE (UNDERGROUND)	(N)	NEW WORK
· ^	UVI	- CONDUCTOR (OPEN WIRE)	NEC NESC	NATIONAL ELECTRIC CODE NATIONAL ELECTRIC SAFETY CODE
<b>-</b> O	DN	CONDUIT DIRECTION (UP / DOWN)	NF NFPA	NON-FUSED NATIONAL FIRE PROTECTION ASSOCIATION
	:01		NIC	NOT IN CONTRACT
	A: 01		NM, NMC NTS	NONMETALLIC—SHEATHED CABLE (ROMEX) NOT TO SCALE
			OCPD P	OVER CURRENT PROTECTION DEVICE POLE
			PECO	PECO ENERGY COMPANY
			PC PF	PHOTOCELL POWER FACTOR
			PH PRI	PHASE PRIMARY
			PT	POTENTIAL TRANSFORMER
SYMF	BOLS/LINETYP	PES LEGEND	PV PVC	PHOTOVOLTAIC POLYVINYL CHLORIDE CONDUIT
		- DEMOLITION	PWR (R)	POWER REMOVE
		EXISTING/BY OTHERS/FOR REFERENCE ONLY	RCP	REFLECTED CEILING PLAN
		- NEW	(RE) REC	RELOCATED EXISTING RECEPTACLE
··· <b>—</b>		- BOUNDARY/BORDER/ZONE	REF RGS	REFRIGERATOR or ROOF EXHAUST FAN RIGID GALVANIZED STEEL
<u> </u>	<del></del>	BROKEN LINE/OBJECT  ENCLOSHEE/GROHEING	RMC	RIGID METAL CONDUIT
		- ENCLOSURE/GROUPING - MATCH LINE	RNC RTU	RIGID NONMETALLIC CONDUIT (PVC) ROOFTOP UNIT
	/v.c.)	EQUIPMENT TAG	S&P SBJ	SPACE & PROVISION SYSTEM BONDING JUMPER
	(XXX\ (#)	INDICATES EQUIPMENT TYPE INDICATES EQUIPMENT NUMBER	SCCR	SHORT-CIRCUIT CURRENT RATING
			SCHED SD	SCHEDULE(D) SMOKE DAMPER
	M DESCRIPTION M SCALE	N ITEM TAG w/ DESCRIPTION & SCALE (ITEM "#" ON DWG "XXX")	SEC SE, SER	SECONDARY SERVICE-ENTRANCE CABLE
	TEM NUMBER	ITEM REFERENCE TAG	SHT	SHEET
→ .	OWG NUMBER	(SEE ITEM "#" ON DWG "XXX")	SLD SPD	SINGLE LINE DIAGRAM SURGE-PROTECTIVE DEVICE
(C)	123	) KEYED NOTE (NUMBERED/LETTERED)	SPEC STD	SPECIFICATION(S) STANDARD(S)
^ '		REVISION CLOUD & REVISION TAG	STRUCT TBD	STRUCTURE(AL) TO BE DETERMINED
#	{	CLOUD INDICATES AREA OF REVISION TAG "A" INDICATES REVISION NUMBER	TCP	TEMPERATURE CONTROL PANEL
,			TR TVSS	TAMPER RESISTANT TRANSIENT VOLTAGE SURGE SUPPRESSOR
			TYP	TYPICAL
			UG UON	UNLESS OTHERWISE NOTED
			USE XF <b>M</b> R	SERVICE-ENTRANCE CABLE TRANSFORMER
			XFR	TRANSFER
_			V VIF	VOLT VERIFY IN FIELD
			VT W	VOLTAGE TRANSFORMER WATT or WIRE
			w/	WITH WRE GUARD
			WG WP	WEATHERPROOF

<u>.ner/</u>	AL ELECTRICAL ABBREVIATIONS				
C, AC	AMPERE AIR CONDITIONING OF ARMORED CABLE OF ALTERNATING CURRENT	ISSUE	DATE		REVISIONS
)#x )-ALT# <u>x</u>	ADDENDUM #_ ADD ALTERNATE #_				
) <u>//Li#A</u>	AMP FRAME ARC-FAULT CIRCUIT INTERRUPTER				
- - I	ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION				
J	AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY				
<b>5</b>	ALUMINUM AMPERE				
	AMP TRIP				
G G	AUTOMATIC TRANSFER SWITCH  AMERICAN WRE GAUGE				
?	BURRIS ENGINEERS, INC. BREAKER				
)G .D.	BUILDING BASIS OF DESIGN				
	CONDUIT CIRCUIT BREAKER				
Γ	CIRCUIT				
; il	CEILING OR CEILING MOUNTED CIRCULAR MILS				
NC NT	CONCRETE CONTINUE(OUS)				
	CURRENT TRANSFORMER COPPER				
+	CABINET UNIT HEATER DEMOLISH				
C DWN	DISCONNECT SWITCH				
3	DISHWASHER DRAWING				
ı	EXISTING TO REMAIN EQUIPMENT BONDING JUMPER				
,	ELECTRICAL CONTRACTOR				
	EXHAUST FAN EQUIPMENT GROUNDING CONDUCTOR				
C V	ELECTRICAL ELEVATOR ENTEROPERATOR				
RG, EMG	EMERGENCY ELECTRICAL METALLIC TUBING				
() C	EXISTING TO BE RELOCATED ELECTRIC WATER COOLER				
4	ELECTRIC WATER HEATER FIRE ALARM				
AP CP	FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL				
Γ C	FLEXIBLE METALLIC TUBING FLEXIBLE METAL CONDUIT				
GRD	GROUND(ING) GENERAL CONTRACTOR				
	GARBAGE DISPOSAL GROUNDING ELECTRODE CONDUCTOR				
, GFCI PE	GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION FOR EQUIPMENT				
	HORSEPOWER HEIGHT or HIGH TENSION				
AC	HIGH VOLTAGE (GREATER THAN 69kV) HEATING/VENTILATING/AIR CONDITIONING				
, HWH	HOT WATER HEATER ISOLATED GROUND				
	INTERSYSTEM BONDING TERMINATION INTERMEDIATE METAL CONDUIT		DESIGN	DEVE	LOPMENT
	JUNCTION BOX KILO—				
nil IC	THOUSAND CIRCULAR MILS LIQUIDTIGHT FLEXIBLE METAL CONDUIT	PROJECT COOR	DINATOR		
, LT(G)	LIGHT(ING)		MICHE	ELLE S	SHUMAN
x	LOW VOLTAGE (0 TO 600V) MAXIMUM				
3	METAL—CLAD CABLE OF MECHANICAL CONTRACTOR MAIN CIRCUIT BREAKER				
) )	MOTOR CIRCUIT PROTECTOR MAIN DISTRIBUTION PANEL				
CH	MECHANICAL MINUMUM				
O CP	MAIN LUG ONLY MAXIMUM OVERCURRENT PROTECTIVE DEVICE				
)	MOUNTED MEDIUM VOLTAGE (2.4kV TO 35kV)				
	NEW WORK NATIONAL ELECTRIC CODE				
SC	NATIONAL ELECTRIC SAFETY CODE NON-FUSED	SAADA	RCHITE	=CTS	
PA	NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT	1600 Waln	ut Street, 2nd	Floor	
, NMC	NONMETALLIC—SHEATHED CABLE (ROMEX) NOT TO SCALE	•	ia, Pennsylvar 410   fax 985 4		
PD	OVER CURRENT PROTECTION DEVICE POLE	BURRIS	ENGINEERS	INC	
00	PECO ENERGY COMPANY PHOTOCELL	716 N. BETH	ILEHEM PIKE, S	UITE 201	
	POWER FACTOR PHASE	215 643 446	YNEDD, PENNS 5 fax 215 6		002
	PRIMARY POTENTIAL TRANSFORMER	jburris@burri	sengineers.com		
3	PHOTOVOLTAIC POLYVINYL CHLORIDE CONDUIT				
₹	POWER REMOVE				
) '\	REFLECTED CEILING PLAN RELOCATED EXISTING				
· / >-	RECEPTACLE REFRIGERATOR or ROOF EXHAUST FAN	CIT	Y OF	PHIL	LADELPHIA
5	RIGID GALVANIZED STEEL RIGID METAL CONDUIT	DEPA	RTMENT	OF PU	BLIC PROPERTY
	RIGID NONMETALLIC CONDUIT (PVC)		1515 /	ARCH	STREET
) D	ROOFTOP UNIT SPACE & PROVISION SYSTEM ROADING HARPER	1 1 T H	FLOOR, C	DNE PA	RKWAY BUILDING
CR	SYSTEM BONDING JUMPER SHORT-CIRCUIT CURRENT RATING	PHILADELPH PROJECT TITLE			PENNSYLVANIA
HED	SCHEDULE(D) SMOKE DAMPER				AT C
; SER	SECONDARY SERVICE-ENTRANCE CABLE		N LUTHI ADULT		
Г )	SHEET SINGLE LINE DIAGRAM				MOORE AVENUE
) EC	SURGE-PROTECTIVE DEVICE SPECIFICATION(S)		LPHIA, PA		
) RUCT	STANDARD(S) STRUCTURE(AL)	DRAWING TITLE	<u> </u>		
) >	TO BE DETERMINED TEMPERATURE CONTROL PANEL		ELECTR		
SS	TAMPER RESISTANT TRANSIENT VOLTAGE SURGE SUPPRESSOR		COVER	SHEET	1
)	TYPICAL UNDERGROUND	PROJECT NO.			DRAWING NO.
N <u>-</u>	UNLESS OTHERWISE NOTED SERVICE-ENTRANCE CABLE		1-4199-	-99	
- ∕IR R	TRANSFORMER TRANSFER	DATE		· <del>-</del>	
	VOLT VERIFY IN FIELD		7-2-2015		
	VOLTAGE TRANSFORMER WATT or WIRE		AS NOTED		
	WATT OF WIRE WITH WIRE GUARD		JMB		
	WEATHERPROOF WEATHER-RESISTANT	(20155009)	JIB,JMB		
		NOTE: AL VE BE	L DIMENSION RIFIED BY TI FORE PROC	S AND CO HE CONTR CEEDING	ONDITIONS SHALL BE ACTOR AT THE SITE WITH THE WORK.
					<del></del>

REVISIONS

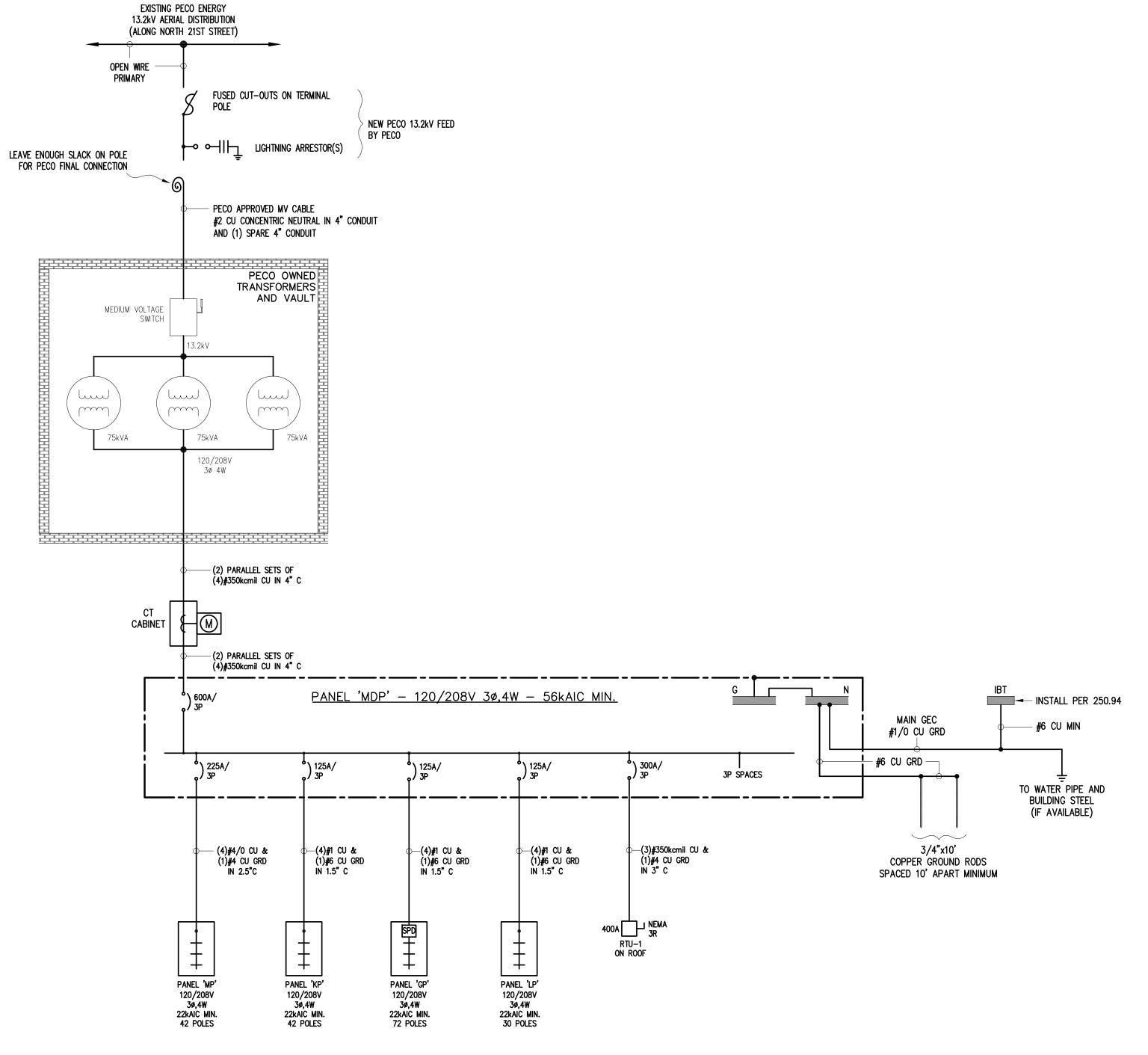




			REVISIONS
	DESIGN	DEVEI	LOPMENT
PROJECT COOR			
	MICHE	CLLE SI	HUMAN
	RCHITE		
	ut Street, 2nd ia, Pennsylvar		
44 COC U 1	11() tov 005 4		
		430	
BURRIS E	ENGINEERS ILEHEM PIKE, SI	.430 , <b>INC</b> UITE 201	
BURRIS I 716 N. BETH LOWER GW 215 643 446	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6	.430 <u>, <b>INC</b></u> UITE 201 YLVANIA 190	002
BURRIS I 716 N. BETH LOWER GW 215 643 446	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS	.430 <u>, <b>INC</b></u> UITE 201 YLVANIA 190	002
BURRIS I 716 N. BETH LOWER GW 215 643 446	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6	.430 <u>, <b>INC</b></u> UITE 201 YLVANIA 190	002
BURRIS I 716 N. BETH LOWER GW 215 643 446	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6	.430 <u>, <b>INC</b></u> UITE 201 YLVANIA 190	002
BURRIS I 716 N. BETH LOWER GW 215 643 446 jburris@burri	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com	.430 , INC UITE 201 YLVANIA 190 643 4481	.ADELPHIA
BURRIS [ 716 N. BETH LOWER GW 215 643 4460 jburris@burri	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com	, INC UITE 201 YLVANIA 190 643 4481	
BURRIS E 716 N. BETH LOWER GW 215 643 446: jburris@burri	ENGINEERS  ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com	PHIL	ADELPHIA BLIC PROPERTY STREET
BURRIS E 716 N. BETH LOWER GW 215 643 446: jburris@burri	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  YOF ARTMENT 1 5 1 5 A FLOOR, C	PHIL	ADELPHIA BLIC PROPERTY
BURRIS E 716 N. BETH LOWER GW 215 643 446; jburris@burri	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, C	PHIL	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING
BURRIS E 716 N. BETH LOWER GW 215 643 446: jburris@burri  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, C	PHIL OF PUE	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA
BURRIS E 716 N. BETH LOWER GW 215 643 446; jburris@burri  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII OLDER	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, C	PHIL OF PUE ARCH CENTI	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA
BURRIS I 716 N. BETH LOWER GW 215 643 446; jburris@burri  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII OLDER 21ST ST	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, C	PHIL OF PUE ARCH DNE PAE CENTI	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA
BURRIS I 716 N. BETH LOWER GW 215 643 446; jburris@burri  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII OLDER 21ST ST	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 2 FLOOR, CO IA  N LUTHI ADULT REET & CI LPHIA, PA	PHIL OF PUE ARCH DNE PAE  CENTI ECIL B. 19121	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA
BURRIS E 716 N. BETH LOWER GW 215 643 446: jburris@burri  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII OLDER  21ST ST: PHILADE	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, CO IA  N LUTHI ADULT REET & CI LPHIA, PA	PHIL OF PUE ARCH ONE PAR ECIL B. 19121	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA
BURRIS I 716 N. BETH LOWER GW 215 643 446; jburris@burri  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII OLDER  21 ST ST: PHILADE  DRAWING TITLE	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, CO IA  N LUTHI ADULT REET & CI LPHIA, PA	PHIL OF PUE ARCH ONE PAR ECIL B. 19121	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA  IG ER MOORE AVENUE LIGHTING ANT
BURRIS E 716 N. BETH LOWER GW 215 643 446: jburris@burri  CIT DEPA  1 1 TH PHILADELPH PROJECT TITLE MARTII OLDER 21ST ST: PHILADE DRAWING TITLE	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, CO IA  N LUTHI ADULT REET & CI LPHIA, PA	PHIL OF PUE ARCH DNE PAI  ECIL B. 19121  ICAL — LARM F	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA  IG ER MOORE AVENUE
BURRIS IN THE PROJECT NO. 20-1	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, CO IA  N LUTHI ADULT REET & CI LPHIA, PA  ELECTR FIRE AI  1 -4199-	PHIL OF PUE ARCH DNE PAI  ECIL B. 19121  ICAL — LARM F	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA  IG ER MOORE AVENUE LIGHTING AND LOOR PLANS DRAWING NO.
BURRIS E 716 N. BETH LOWER GW 215 643 446; jburris@burri  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII OLDER  21 ST ST: PHILADE  DRAWING TITLE  PROJECT NO.  20-1	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 Isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, CO IN  N LUTHI ADULT REET & CI LPHIA, PA  ELECTR FIRE AI  1 -4199- 7-2-2015	PHIL OF PUE ARCH DNE PAI  ECIL B. 19121  ICAL — LARM F	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA  IG ER MOORE AVENUE LIGHTING ANT
BURRIS E 716 N. BETH LOWER GW 215 643 446; jburris@burris  CIT  DEPA  1 1 TH  PHILADELPH  PROJECT TITLE  MARTII OLDER  21 ST ST: PHILADE  DRAWING TITLE  PROJECT NO.  20-1  DATE  SCALE	ENGINEERS ILEHEM PIKE, SI YNEDD, PENNS 5 fax 215 6 isengineers.com  Y OF ARTMENT 1 5 1 5 7 FLOOR, CO IA  N LUTHI ADULT REET & CI LPHIA, PA  ELECTR FIRE AI  1 -4199-	PHIL OF PUE ARCH DNE PAI  ECIL B. 19121  ICAL — LARM F	ADELPHIA BLIC PROPERTY STREET RKWAY BUILDING PENNSYLVANIA  IG ER MOORE AVENUE LIGHTING AND LOOR PLANS DRAWING NO.

CHECKED BY JIB, JMB

REVISIONS



1 SINGLE LINE DIAGRAM E2.1 SCALE: 1/8" = 1'-0"

NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NEC.

- 2. SERVICE EQUIPMENT TO BE LOCATED AS CLOSE AS POSSIBLE TO SERVICE CONDUCTORS ENTERING THE BUILDING. GROUP EQUIPMENT TOGETHER AS REQUIRED.
- 3. ALL CONDUCTORS SHALL BE CU AND THHN/THWN UNLESS OTHERWISE NOTED.
- 4. CONNECT MAIN GROUNDING ELECTRODE CONDUCTOR (GEC) TO BUILDING STEEL IF AVAILABLE.
- 5. ALL SERVICE RELATED WORK TO BE DONE IN STRICT ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
- 6. VERIFY SHORT CIRCUIT REQUIREMENTS WITH UTILITY COMPANY AND MAKE ADJUSTMENTS AS REQUIRED.
- 7. ALL SERVICE EQUIPMENT SHALL BE LISTED FOR SERVICE ENTRANCE USE.

- 8. COORDINATE ALL SERVICE CHANGES WITH PECO. EC SHALL BE RESPONSIBLE FOR SUBMITTING S&M AS REQUIRED.
- 9. THE EC HAS THE FULL RESPONSIBILITY FOR MEETING WITH THE LOCAL ELECTRIC UTILITY AND COORDINATING WITH THE LOCAL ELECTRIC UTILITY COMPANY'S REQUIREMENTS BEFORE INSTALLATION BEGINS. BURRIS ENGINEERS HAS NOT MET WITH THE LOCAL UTILITY. BURRIS ENGINEERS ADVISES THE INSTALLER TO CONTACT THE LOCAL ELECTRIC UTILITY AS SOON AS POSSIBLE TO BEGIN THE PROCESS AS NOT DOING SO MAY CAUSE A DELAY IN OBTAINING THE REQUESTED SERVICE. ALSO, LOCAL ELECTRIC UTILITY FEES MAY APPLY TO OBTAIN REQUESTED SERVICE.
- 10. THE EC IS RESPONSIBLE FOR THE PHYSICAL LAYOUT OF THE SERVICE EQUIPMENT AND ALL DISTRIBUTION EQUIPMENT MEETING WORKING CLEARANCES AND ALL OTHER REQUIREMENTS OF THE NEC BASED ON ACTUAL FIELD CONDITIONS. THE LOCATION OF THE SERVICE DISCONNECTING MEANS SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 230, AND SHOULD BE REVIEWED WITH THE INSTALLER'S UNDERWRITER BEFORE INSTALLATION.
- 11. SEE PANEL SCHEDULES FOR MORE INFORMATION.

ISSUE DATE REVISIONS

DESIGN DEVELOPMENT

PROJECT COORDINATOR

MICHELLE SHUMAN

SMPARCHITECTS
1600 Walnut Street, 2nd Floor
Philadelphia, Pennsylvania 19103

215 985 4410 fax 985 4430

BURRIS ENGINEERS, INC
716 N. BETHLEHEM PIKE, SUITE 201
LOWER GWYNEDD, PENNSYLVANIA 19002
215 643 4465 fax 215 643 4481
jburris@burrisengineers.com

CITY OF PHILADELPHIA

DEPARTMENT OF PUBLIC PROPERTY

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

MARTIN LUTHER KING
OLDER ADULT CENTER

21ST STREET & CECIL B. MOORE AVENUE PHILADELPHIA, PA 19121

DRAWING TITLE

PROJECT NO.

ELECTRICAL — SINGLE LINE DIAGRAM

DRAWING NO.

DATE 7-2-2015

SCALE AS NOTED

DRAWN BY JMB,ATA

CHECKED BY JIBJMB

(2015P009)

NOTE:
ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.