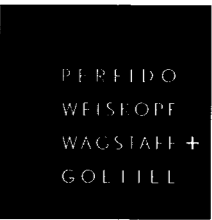


# WEST VIRGINIA STATE OFFICE BUILDING NO.3 RENOVATION

PERFIDO WEISKOPF WAGSTAFF + GOETTEL



408 BOULEVARD OF THE ALLIES  
PITTSBURGH, PA 15219-1301  
412.391.2884 PH  
412.391.1657 FX  
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## ADDENDUM NO. 2

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PWVG PROJECT NO. 20703.00  
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ADDENDUM DECEMBER 8, 2010

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WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

ADDENDUM NO.2

ADNM #2





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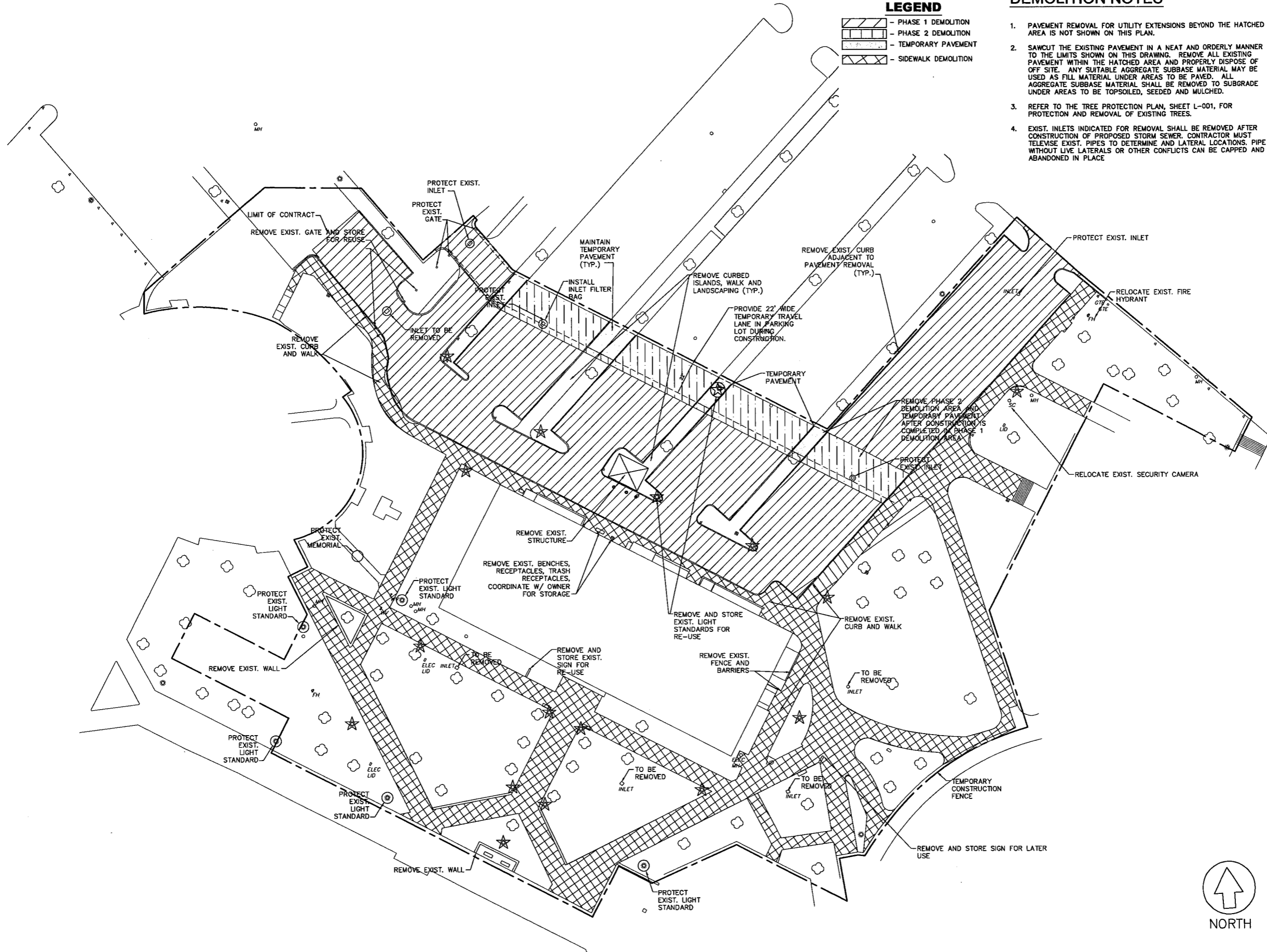
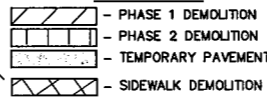


102 Kenner Street  
 Johnstown, PA 15108-1902  
 PH: (412) 626-1881 FAX: (412) 626-0788  
 CS Project: 907-006

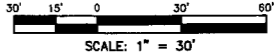
**DEMOLITION NOTES**

1. PAVEMENT REMOVAL FOR UTILITY EXTENSIONS BEYOND THE HATCHED AREA IS NOT SHOWN ON THIS PLAN.
2. SAWCUT THE EXISTING PAVEMENT IN A NEAT AND ORDERLY MANNER TO THE LIMITS SHOWN ON THIS DRAWING. REMOVE ALL EXISTING PAVEMENT WITHIN THE HATCHED AREA AND PROPERLY DISPOSE OF OFF SITE. ANY SUITABLE AGGREGATE SUBBASE MATERIAL MAY BE USED AS FILL MATERIAL UNDER AREAS TO BE PAVED. ALL AGGREGATE SUBBASE MATERIAL SHALL BE REMOVED TO SUBGRADE UNDER AREAS TO BE TOPSOILED, SEEDED AND MULCHED.
3. REFER TO THE TREE PROTECTION PLAN, SHEET L-001, FOR PROTECTION AND REMOVAL OF EXISTING TREES.
4. EXIST. INLETS INDICATED FOR REMOVAL SHALL BE REMOVED AFTER CONSTRUCTION OF PROPOSED STORM SEWER. CONTRACTOR MUST TELEVERSE EXIST. PIPES TO DETERMINE AND LATERAL LOCATIONS. PIPE WITHOUT LIVE LATERALS OR OTHER CONFLICTS CAN BE CAPPED AND ABANDONED IN PLACE

**LEGEND**



**1 DEMOLITION PLAN**  
 CD-001 SCALE: 1" = 30'



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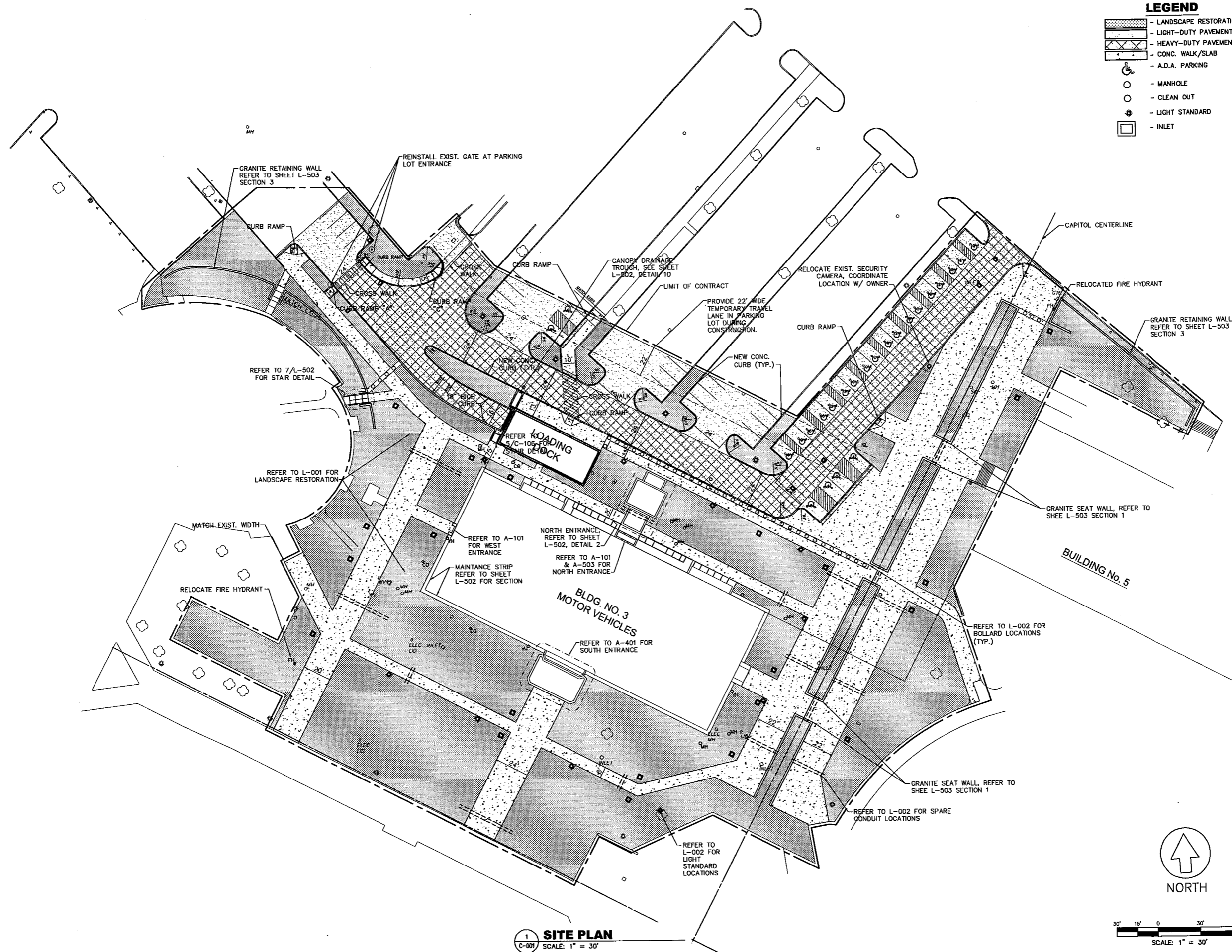
1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305  
**SITE DEMOLITION PLAN**

**CD-001**

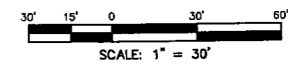


C.J.L. ENGINEERING  
555 Newsum Street  
Johnstown, PA 15136-1102  
PH: (412) 398-1851 FAX: (412) 398-8788  
CS Project #07-006

- LEGEND**
- LANDSCAPE RESTORATION
  - LIGHT-DUTY PAVEMENT
  - HEAVY-DUTY PAVEMENT
  - CONC. WALK/SLAB
  - A.D.A. PARKING
  - MANHOLE
  - CLEAN OUT
  - LIGHT STANDARD
  - INLET



**1 SITE PLAN**  
C-001 SCALE: 1" = 30'



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OFFICE BUILDING NO.3  
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
1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305  
SITE PLAN

**C-001**

# EROSION AND SEDIMENTATION CONTROL NOTES

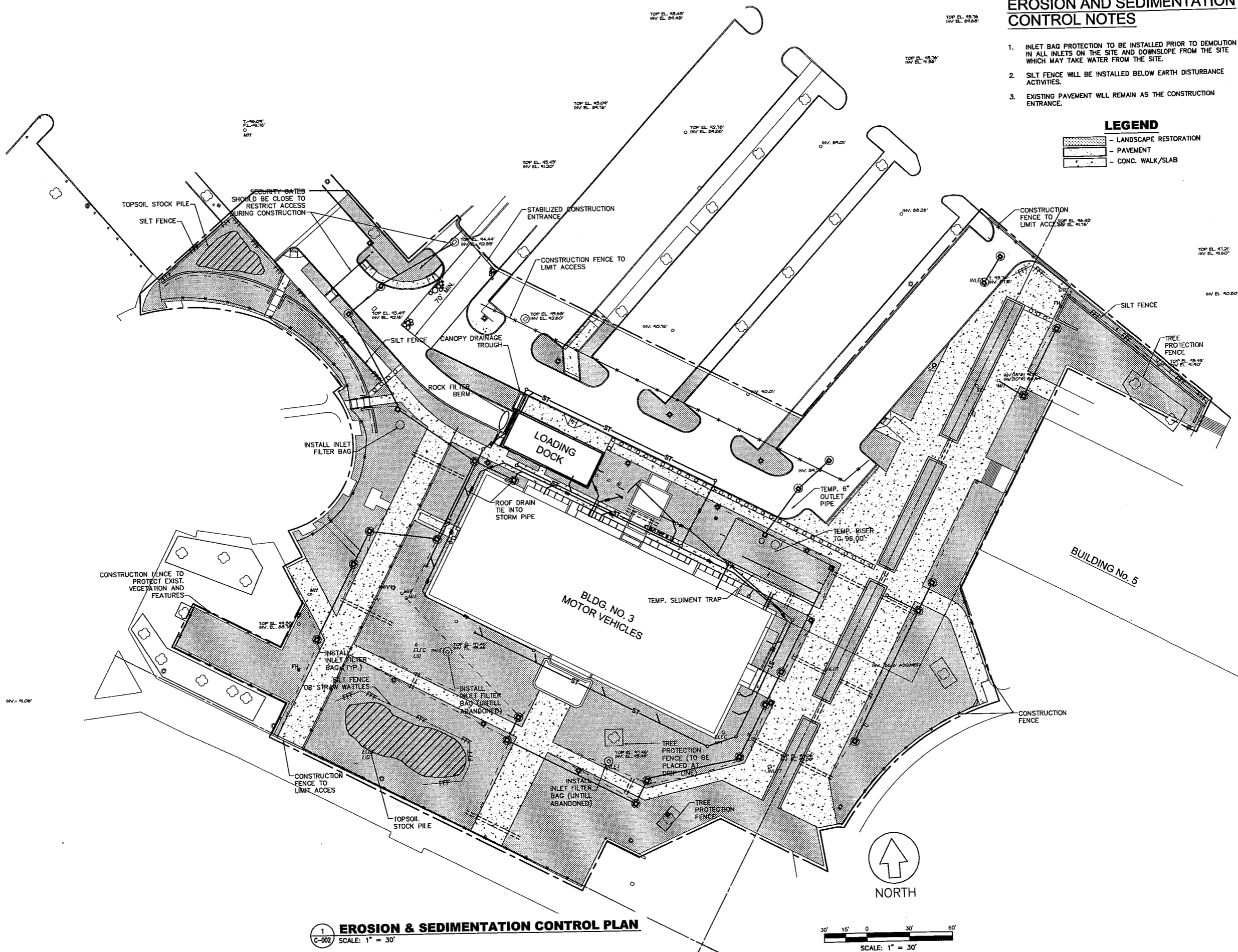
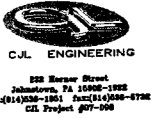
1. INLET BAG PROTECTION TO BE INSTALLED PRIOR TO DEMOLITION IN ALL INLETS ON THE SITE AND DOWNSLOPE FROM THE SITE WHICH MAY TAKE WATER FROM THE SITE.
2. SILT FENCE WILL BE INSTALLED BELOW EARTH DISTURBANCE ACTIVITIES.
3. EXISTING PAVEMENT WILL REMAIN AS THE CONSTRUCTION ENTRANCE.

## LEGEND

-  - LANDSCAPE RESTORATION
-  - PAVEMENT
-  - CONC. WALK/SLAB

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**1 EROSION & SEDIMENTATION CONTROL PLAN**  
C-002 SCALE: 1" = 30'

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1900 KANAWHA BOULEVARD EAST  
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CHARLESTON, WEST VIRGINIA 25305

STORMWATER POLLUTION  
PREVENTION PLAN

**C-002**

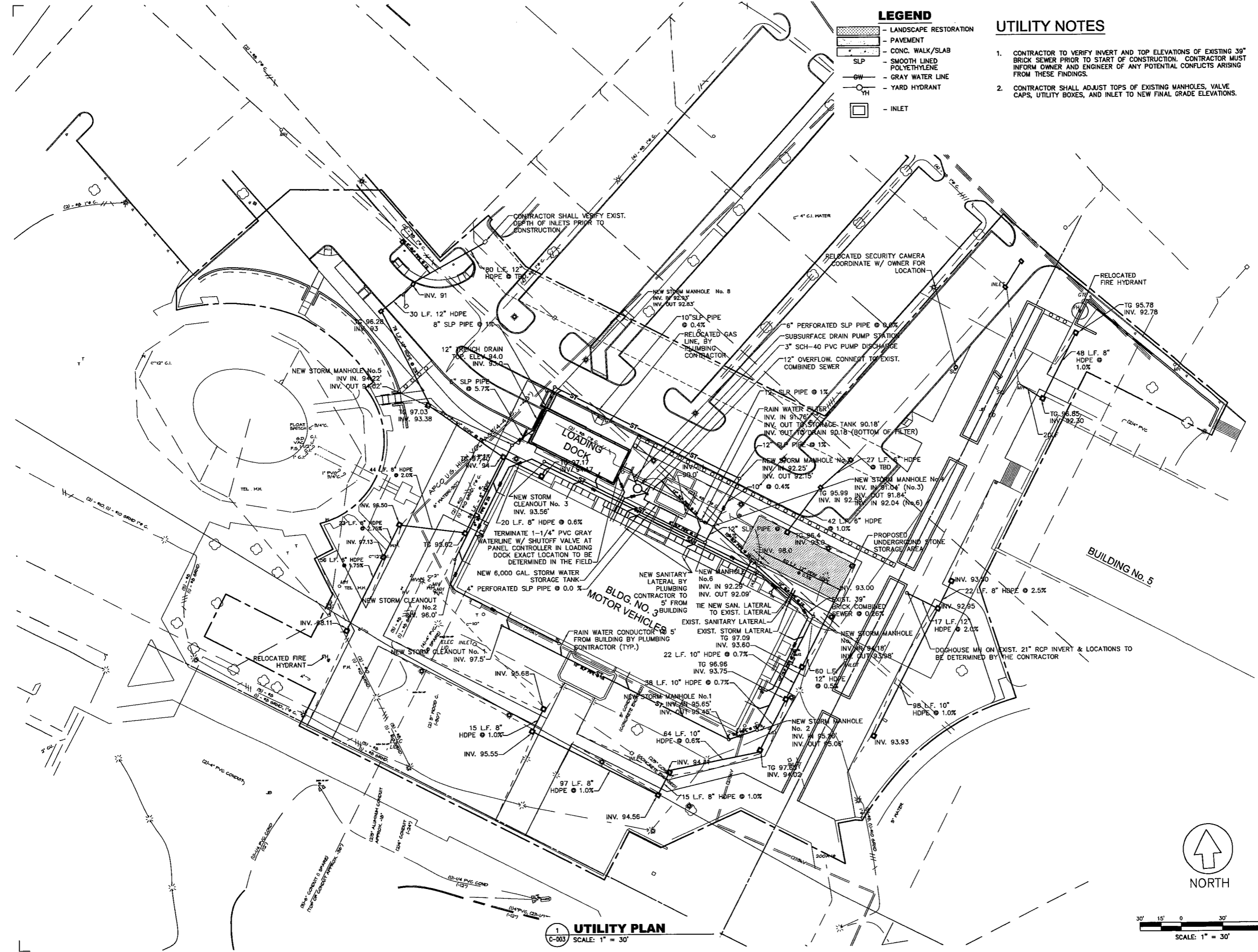


**LEGEND**

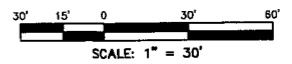
- LANDSCAPE RESTORATION
- PAVEMENT
- CONC. WALK/SLAB
- SLP - SMOOTH LINED POLYETHYLENE
- GW - GRAY WATER LINE
- YH - YARD HYDRANT
- INLET

**UTILITY NOTES**

1. CONTRACTOR TO VERIFY INVERT AND TOP ELEVATIONS OF EXISTING 39" BRICK SEWER PRIOR TO START OF CONSTRUCTION. CONTRACTOR MUST INFORM OWNER AND ENGINEER OF ANY POTENTIAL CONFLICTS ARISING FROM THESE FINDINGS.
2. CONTRACTOR SHALL ADJUST TOPS OF EXISTING MANHOLES, VALVE CAPS, UTILITY BOXES, AND INLET TO NEW FINAL GRADE ELEVATIONS.



**1 UTILITY PLAN**  
C-003 SCALE: 1" = 30'



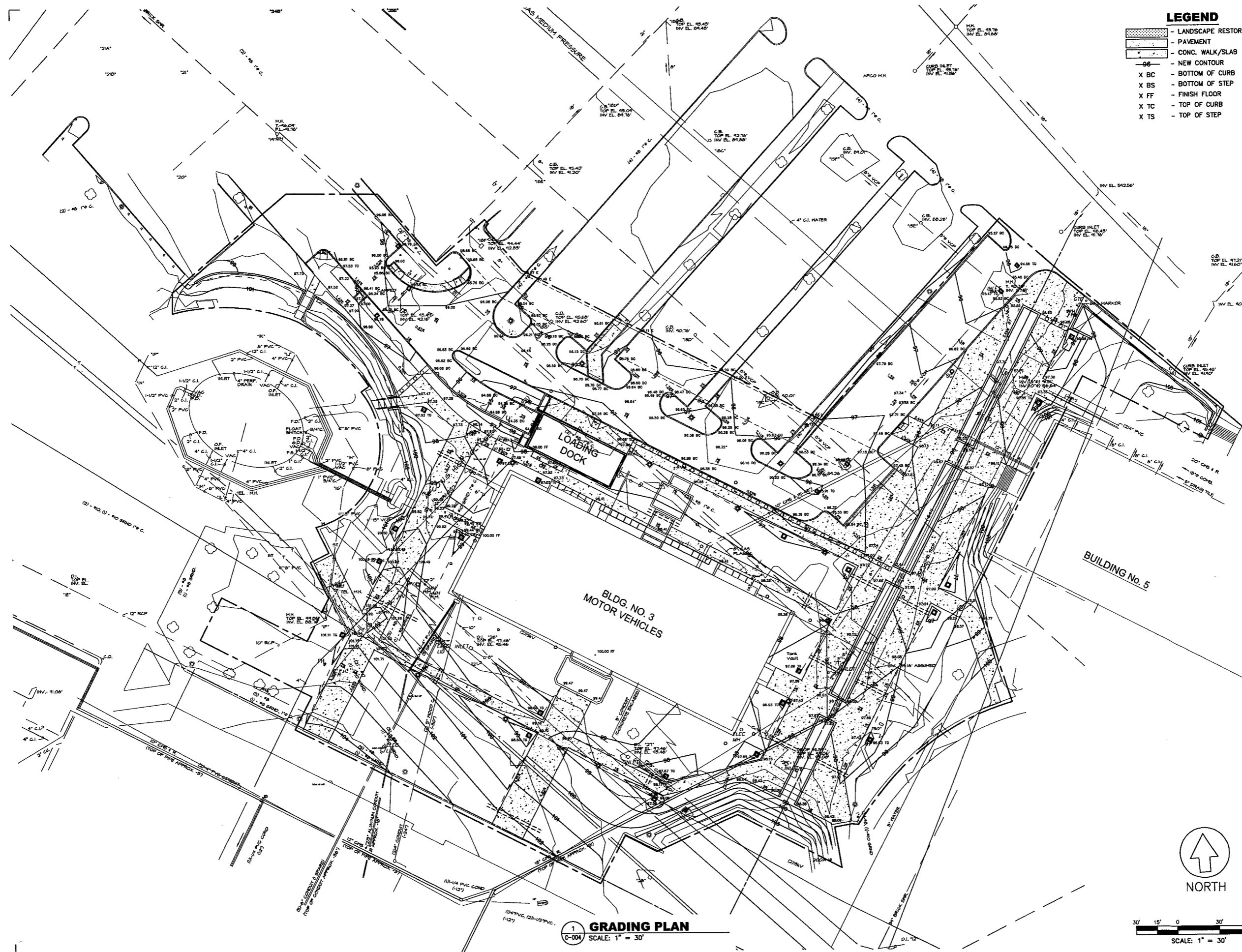
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1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305  
SITE UTILITY PLAN

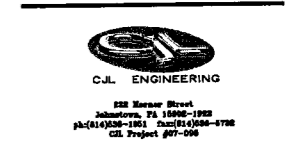
**C-003**



- LEGEND**
- LANDSCAPE RESTORATION
  - PAVEMENT
  - CONC. WALK/SLAB
  - NEW CONTOUR
  - 96-
  - X BC - BOTTOM OF CURB
  - X BS - BOTTOM OF STEP
  - X FF - FINISH FLOOR
  - X TC - TOP OF CURB
  - X TS - TOP OF STEP

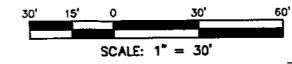


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 C.E. Project #07-006

**1 GRADING PLAN**  
 C-004 SCALE: 1" = 30'



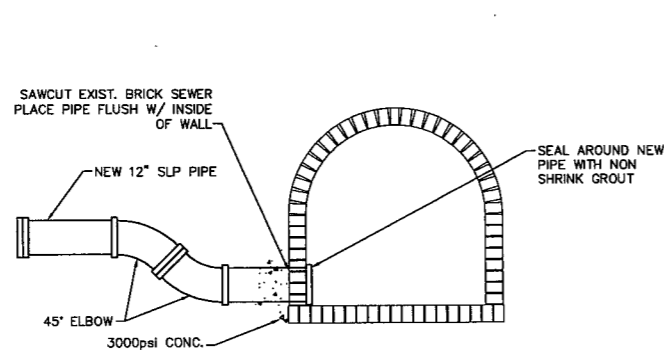
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 OFFICE BUILDING NO.3  
 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305  
 SITE GRADING PLAN

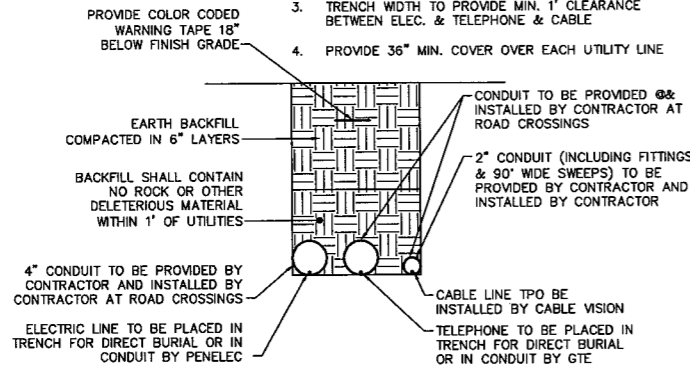
**C-004**



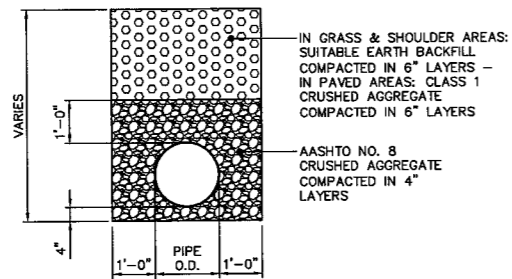
**1 OVERFLOW CONNECTION TO COMBINATION SEWER**  
C-005 N.T.S.

**NOTES:**

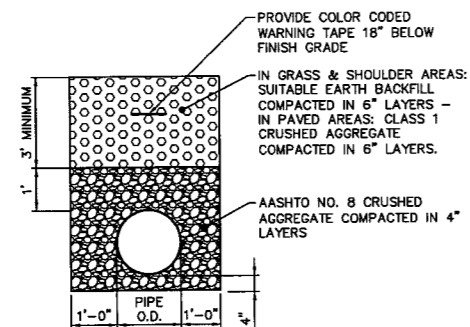
1. ALL CONDUIT SHALL BE SDR 40 PVC PIPE.
2. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCH
3. TRENCH WIDTH TO PROVIDE MIN. 1" CLEARANCE BETWEEN ELEC. & TELEPHONE & CABLE
4. PROVIDE 36" MIN. COVER OVER EACH UTILITY LINE



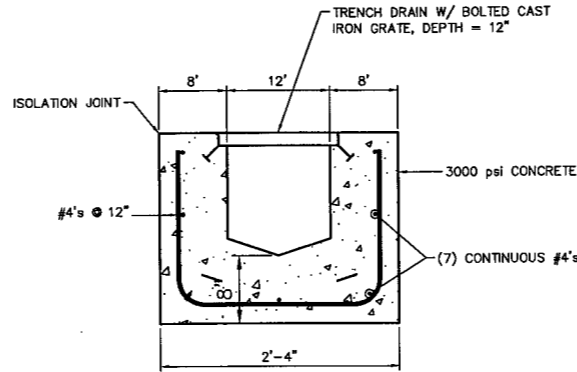
**2 ELEC., TELE., & CABLE TRENCH DETAIL**  
C-005 N.T.S.



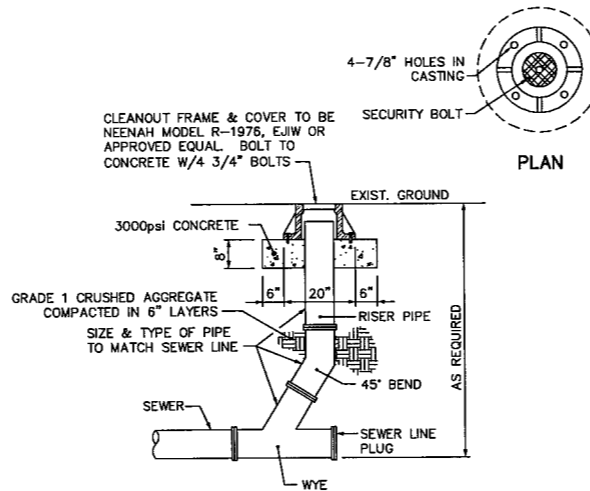
**3 STORM/SANITARY SEWER TRENCH**  
C-005 N.T.S.



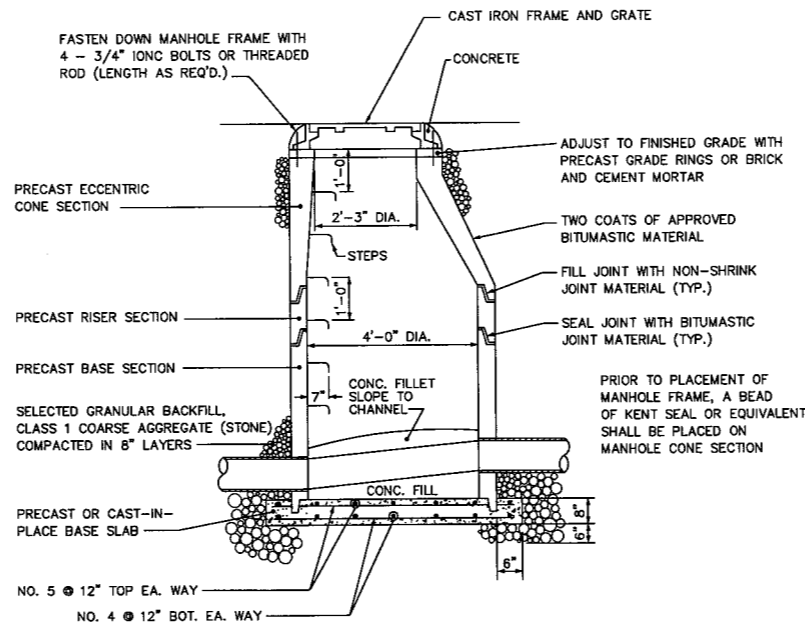
**4 GRAY WATER LINE TRENCH DETAIL**  
C-005 N.T.S.



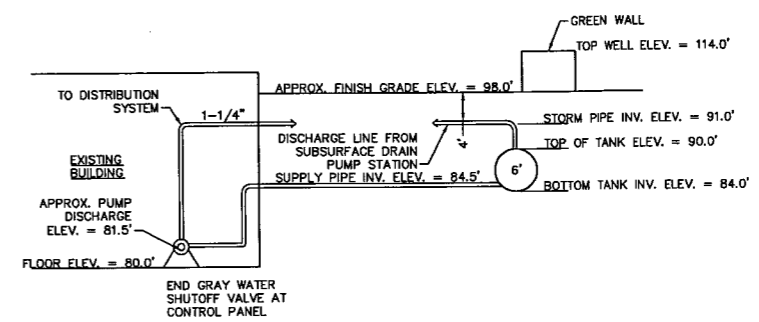
**5 TRENCH DRAIN**  
C-005 N.T.S.



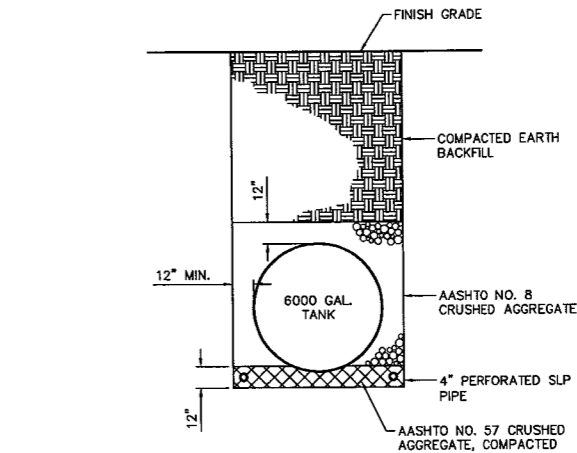
**6 CLEAN OUT DETAIL**  
C-005 N.T.S.



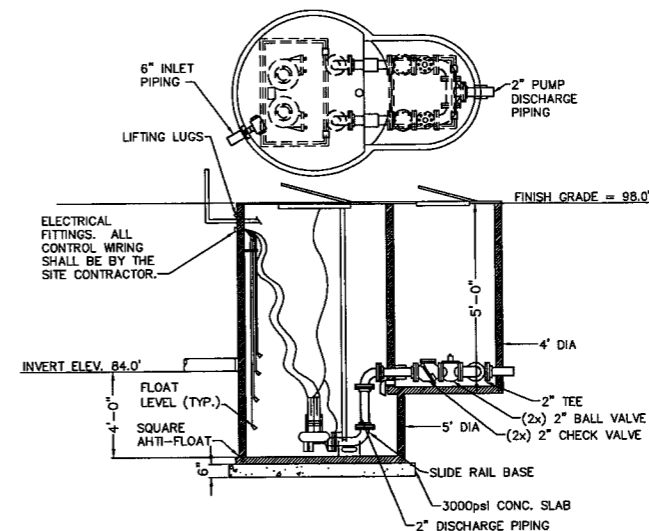
**7 TYPICAL MANHOLE DETAIL**  
C-005 N.T.S.



**8 GRAY WATER IRRIGATION SYSTEM SCHEMATIC**  
C-005 N.T.S.



**9 6000 GAL. GRAY WATER STORAGE TANK**  
C-005 N.T.S.



**10 DUPLEX SUBMERSIBLE SUBSURFACE DRAIN STATION**  
C-005 N.T.S.

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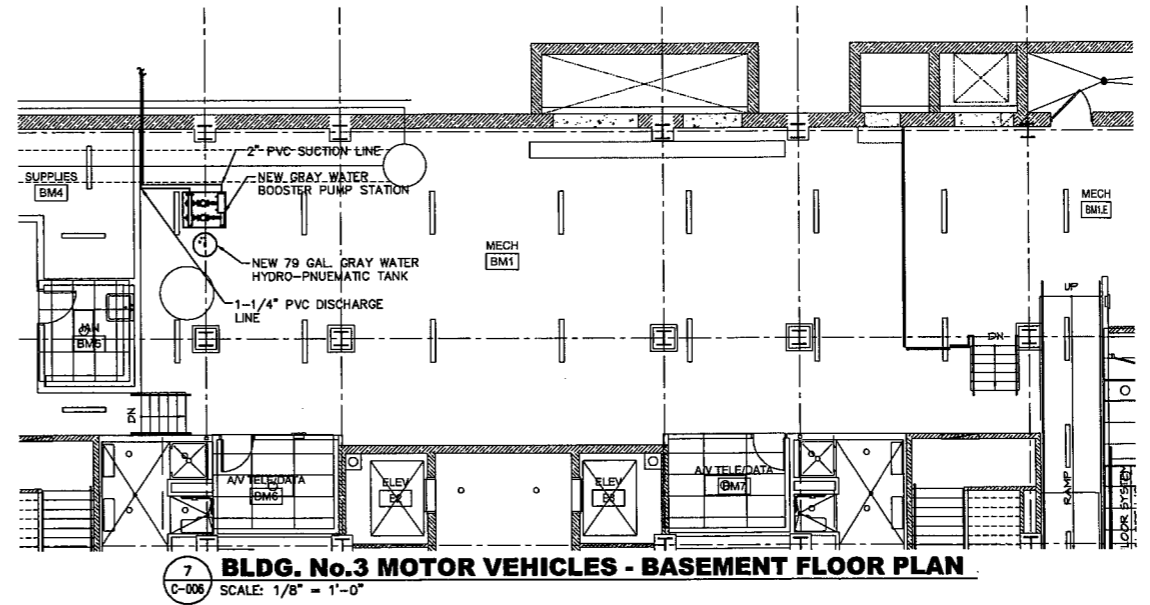
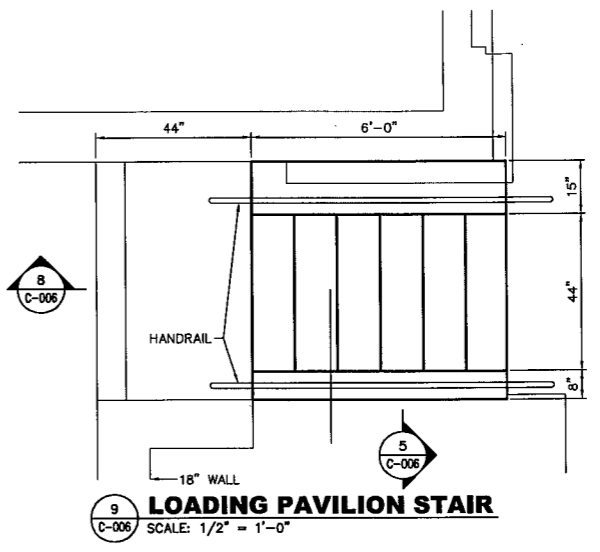
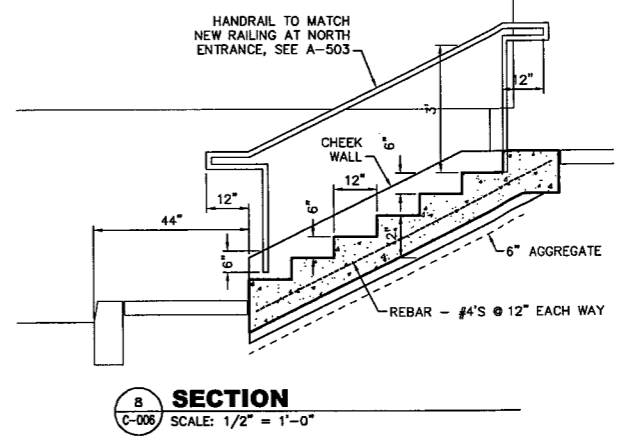
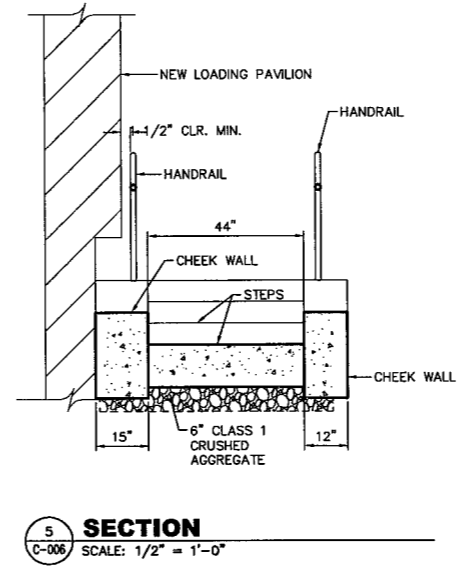
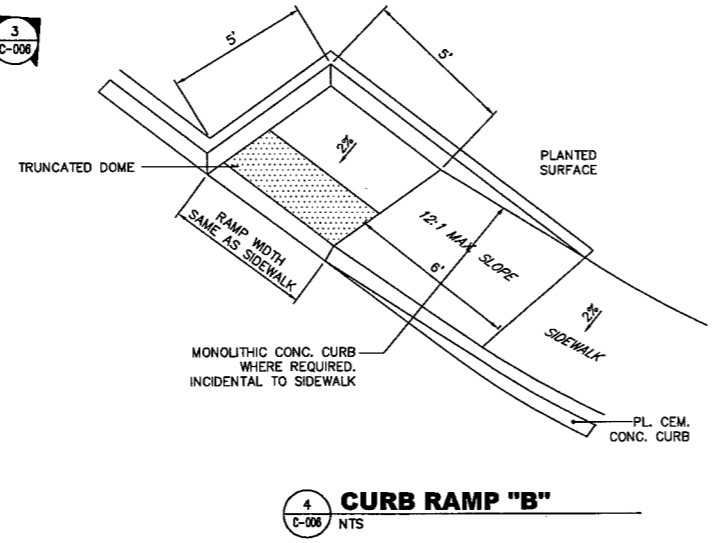
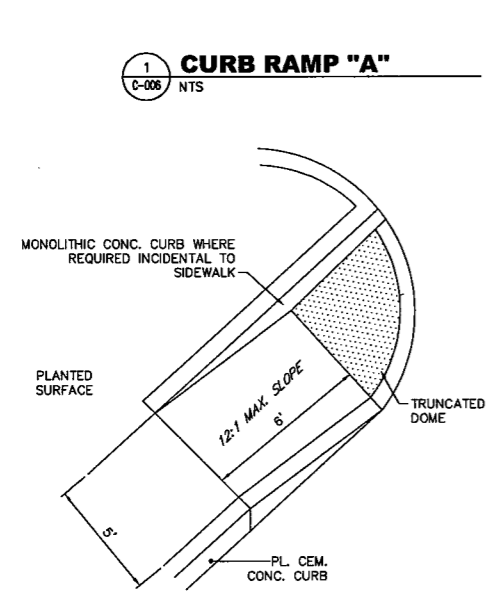
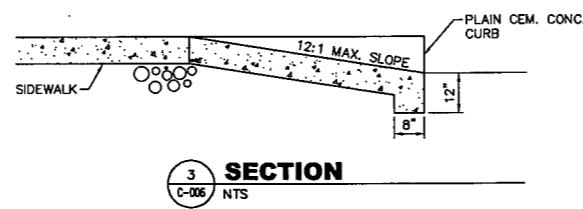
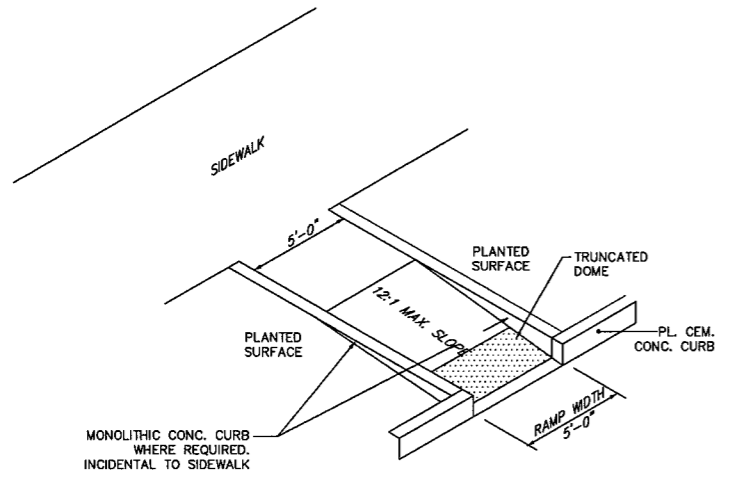
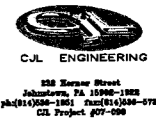
WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

CONSTRUCTION DETAILS

C-005



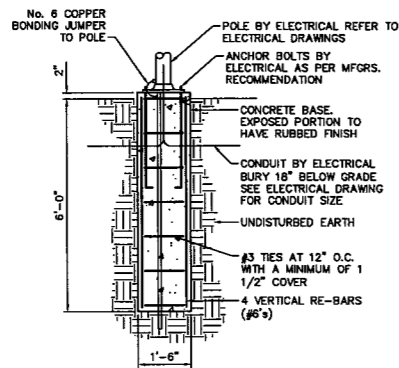


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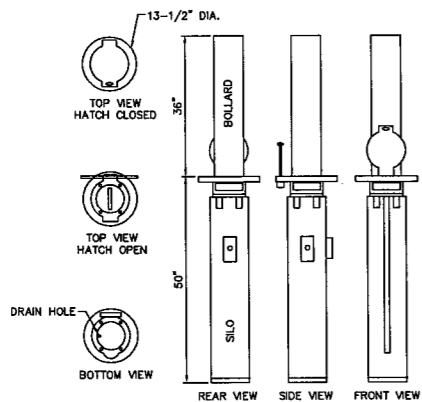
1800 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305  
CONSTRUCTION DETAILS

**C-006**

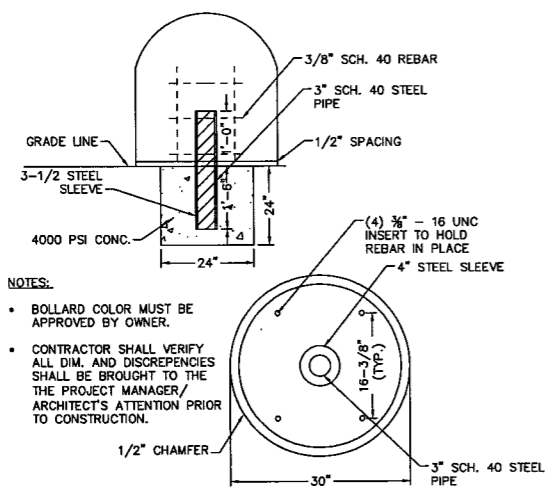


BASE NOTES:  
1. ALL PIERS TO BE 3000 PSI CONCRETE, REINFORCING TO BE GRADE 40, fy = 40 KSI.

1 LIGHT STANDARD BASE  
C-007 NTS

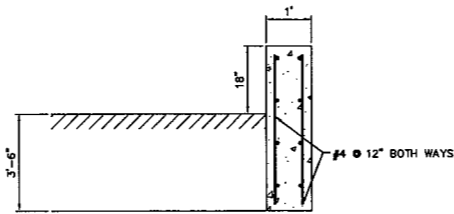


2 REMOVABLE BOLLARD  
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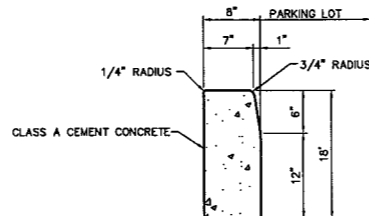


NOTES:  
• BOLLARD COLOR MUST BE APPROVED BY OWNER.  
• CONTRACTOR SHALL VERIFY ALL DIM. AND DISCREPANCIES SHALL BE BROUGHT TO THE PROJECT MANAGER/ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION.

3 BOLLARD  
C-007 NTS

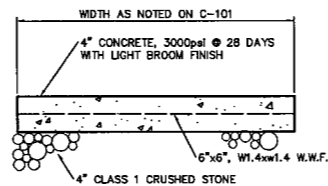


4 18" HIGH CURB WALL  
C-007 NTS



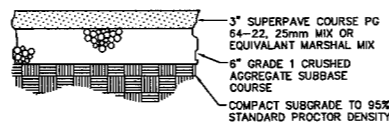
CURB NOTES:  
1. PLACE 3/4" PREMOLED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND AT THE END OF WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB.

5 PLAIN CEMENT CONCRETE CURB  
C-007 NTS

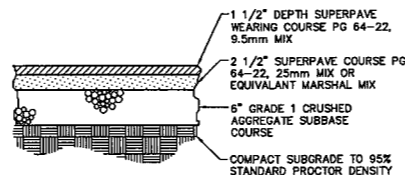


WALK NOTES:  
1. FORM OUTSIDE EDGES AND JOINTS WITH A 1/4" RADIUS EDGING TOOL.  
2. FORM TRANSVERSE FALSE JOINTS AT 5' INTERVALS, APPROXIMATELY 1/4" WIDE AND 1" DEEP.  
3. PROVIDE EXPANSION JOINTS EVERY 20 FEET AND SEPARATE SLABS WITH 1/2" PREMOLED EXPANSION JOINT MATERIAL.

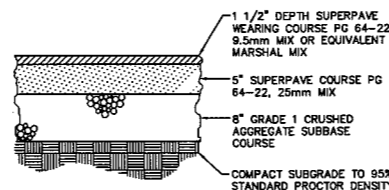
6 CEMENT CONCRETE SIDEWALK  
C-007 NTS



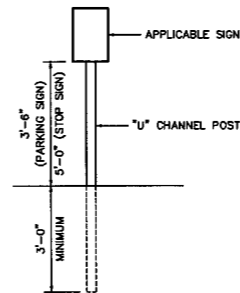
7 TEMPORARY PAVEMENT  
C-007 NTS



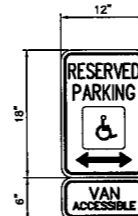
8 LIGHT-DUTY BITUMINOUS PAVING  
C-007 NTS



9 HEAVY-DUTY BITUMINOUS PAVING  
C-007 NTS



10 SIGN MOUNTING  
C-007 NTS



11 ACCESSIBLE PARKING SIGNS  
C-007 NTS

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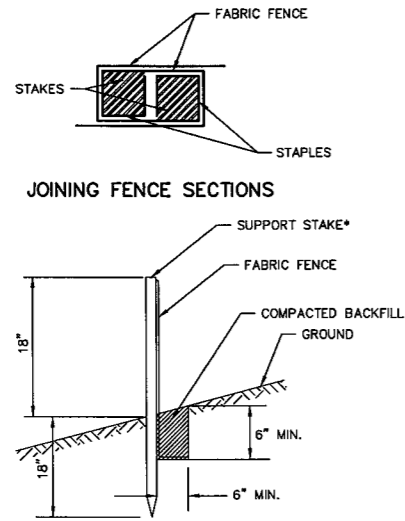
558 Stewart Street  
Pittsburgh, PA 15206-1302  
ph(412)391-1381 fax(412)391-0788  
CUL Project #07-006

PWWG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305  
CONSTRUCTION DETAILS

C-007



**JOINING FENCE SECTIONS**

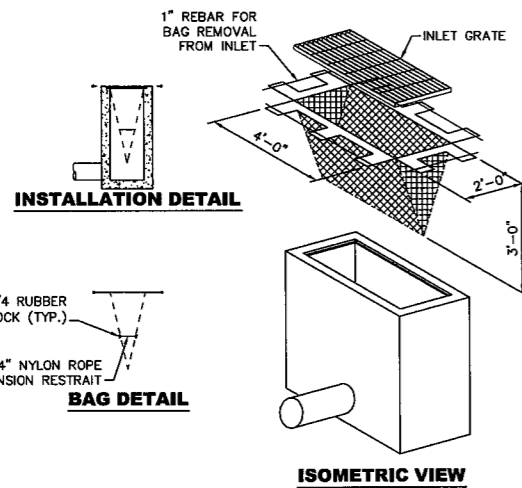
\* STAKES SPACED @ 8' MAXIMUM. USE 2" X 2" WOOD OR EQUIVALENT STEEL STAKES.

FILTER FABRIC MUST BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT.

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF FILTER FABRIC FENCE WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEE STANDARD CONSTRUCTION DETAIL #18.

**1 STANDARD FILTER FABRIC FENCE**  
C-008 NTS

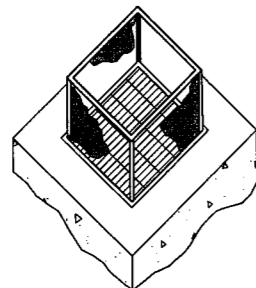


**INSTALLATION DETAIL**

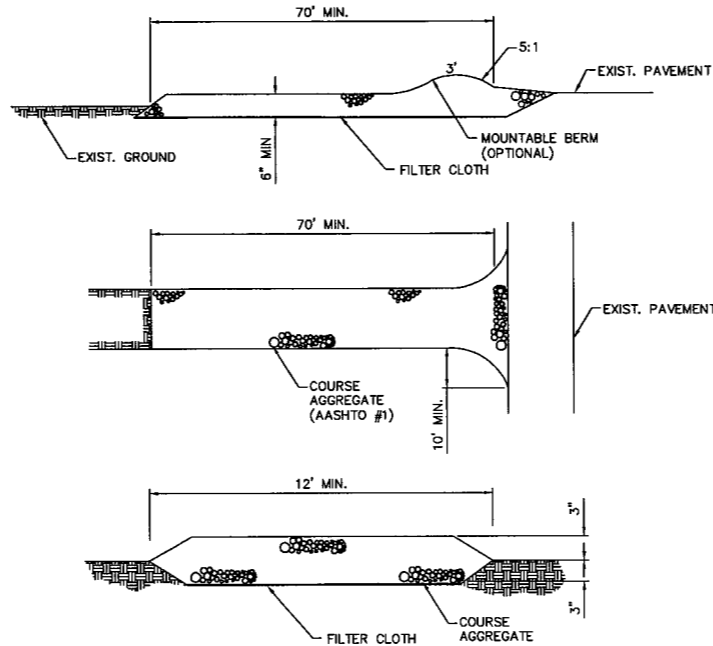
**BAG DETAIL**

**ISOMETRIC VIEW**

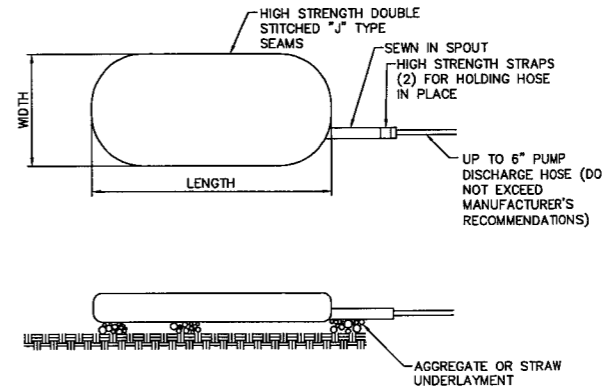
**2 FILTER BAG INLET PROTECTION**  
C-008 NTS



**3 VERTI-PRO**  
C-008 NTS



**4 STONE CONSTRUCTION ENTRANCE**  
C-008 NTS

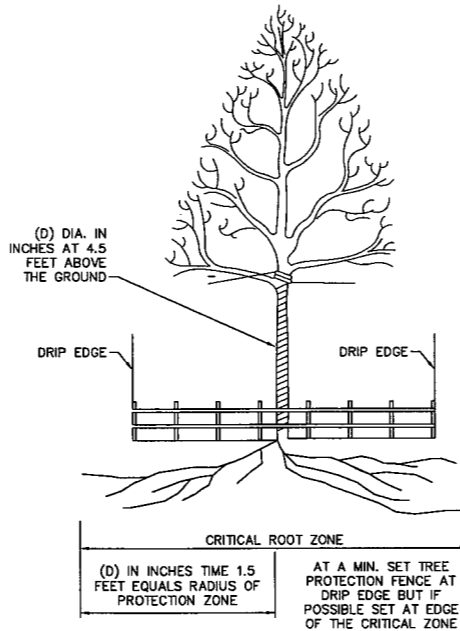


**6 DEWATERING BAG**  
C-008 NTS

FOR INFO ON NPDES STORM WATER PERMIT TO COMMENT ON SEDIMENT CONTROL PLAN CALL: 800-654-5227 OR DEP.PLAN@WV.GOV DEP 601 57TH STREET SE, CHARLESTON WV 25304 APPLICATION DATE: 12/07/10 STATE OF WEST VIRGINIA OFFICE BUILDING No.3 RENOVATION (AREA CODE) TELE. NO.

PUBLIC NOTICE SIGN WITHIN 24 HOURS OF FILING AN NOI WITH DWWM, ALL PROJECTS MUST DISPLAY A SIGN FOR THE DURATION OF CONSTRUCTION ACTIVITIES, AT OR NEAR THE ENTRANCE OF THE SITE.

**7 PUBLIC NOTICE SIGN**  
C-008 NTS



**5 TREE PROTECTION ZONES**  
C-008 NTS



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222 Market Street  
Johnstown, PA 15060-1902  
PA (412) 626-1001 Fax (412) 626-0700  
CJL Project #07-008

PWVG PROJECT NO. 20703.00  
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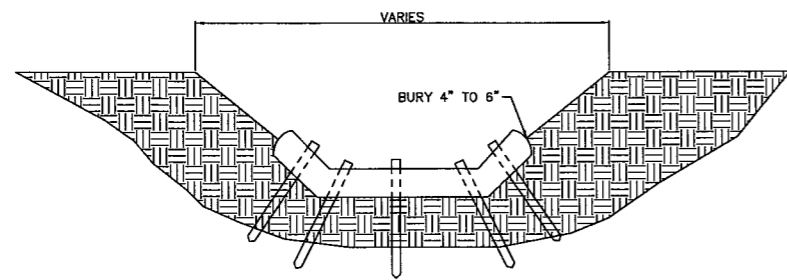
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**WEST VIRGINIA STATE OFFICE BUILDING NO.3 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

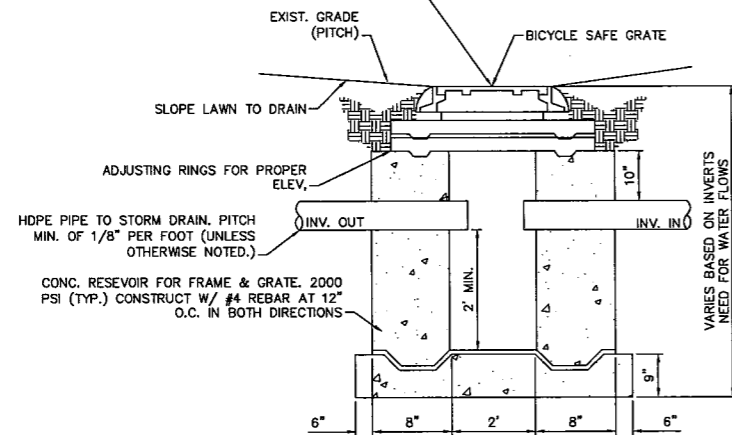
E&S DETAILS

**C-008**

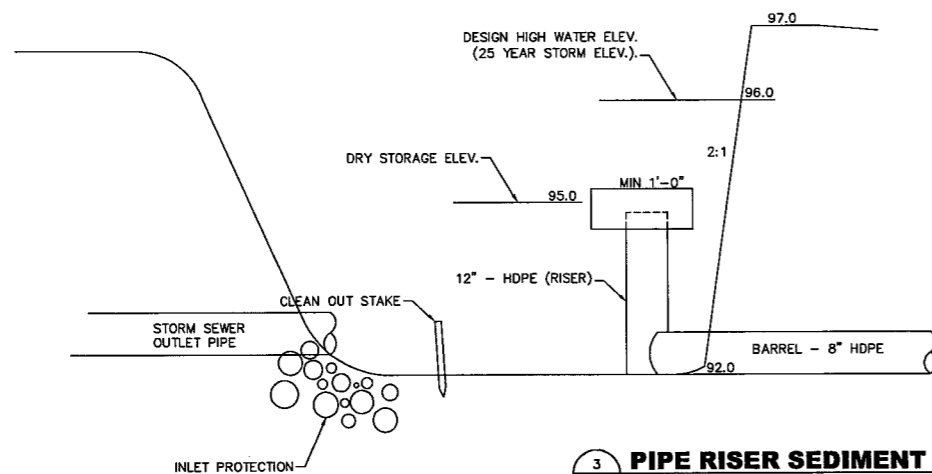


**1 STRAW WATTLE DITCH CHECK**  
C-009 NTS

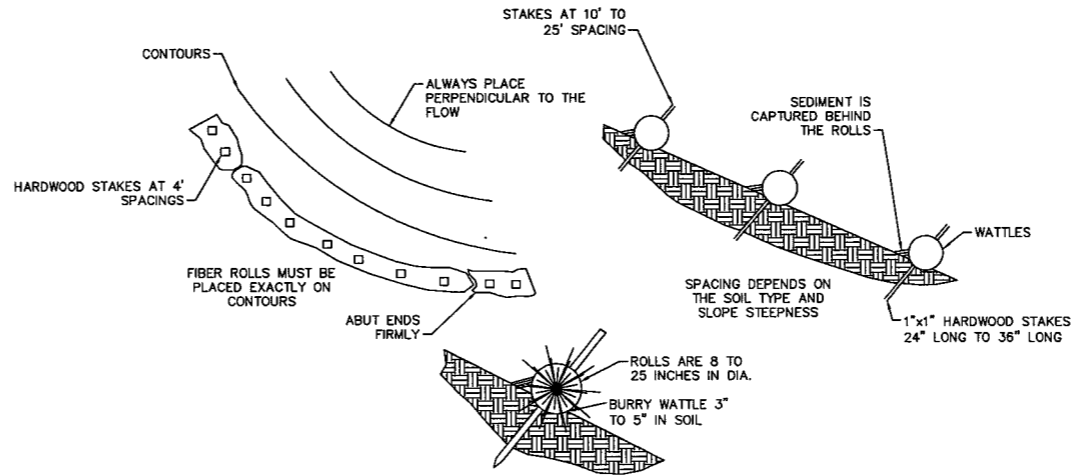
CAST IRON GRATE AND FRAME MODEL No. R-1878-A1G FOR DRAINS IN LAWN AREAS, AS MANUFACTURED BY NEENAH FOUNDRY CO., NEENAH WI OR APPROVED EQUIVALENT



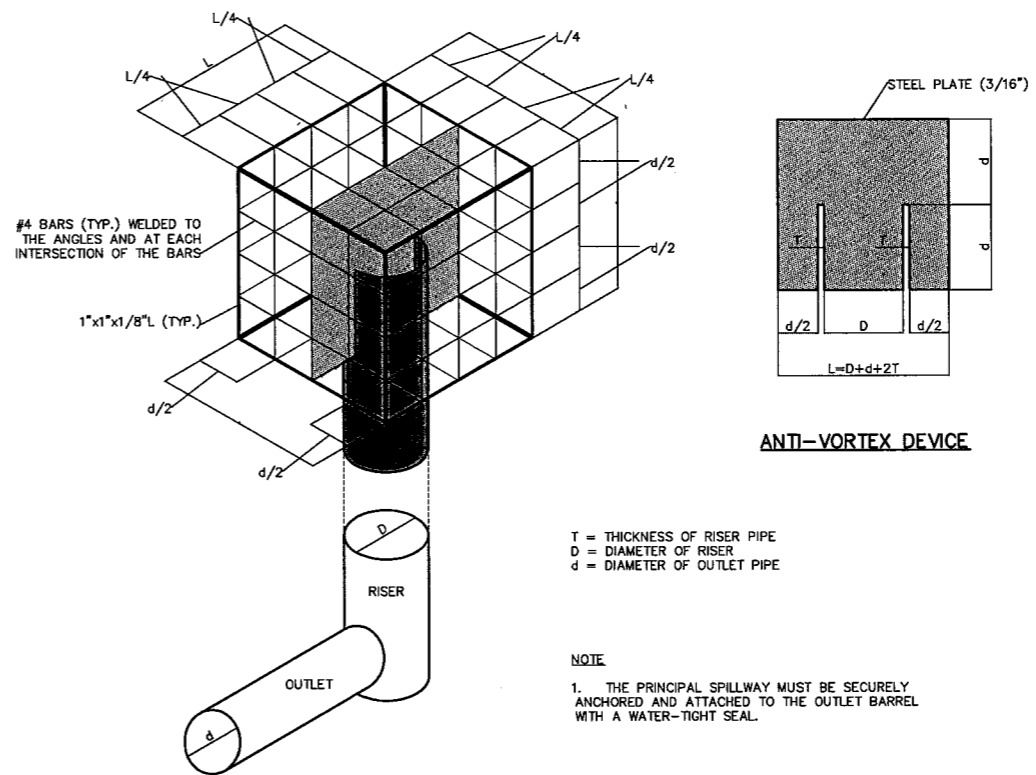
**2 LAWN INLET DETAIL**  
C-009 NTS



**3 PIPE RISER SEDIMENT TRAP**  
C-009 NTS



**4 WATTLES**  
C-009 NTS



**5 TRASH RACK AND ANTI-VORTEX DEVICE**  
C-009 NTS

T = THICKNESS OF RISER PIPE  
D = DIAMETER OF RISER  
d = DIAMETER OF OUTLET PIPE

**NOTE**  
1. THE PRINCIPAL SPILLWAY MUST BE SECURELY ANCHORED AND ATTACHED TO THE OUTLET BARREL WITH A WATER-TIGHT SEAL.

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CS Project 007-008

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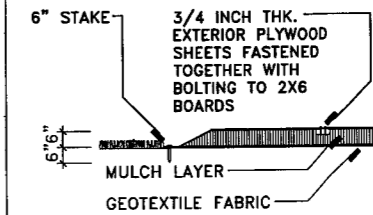
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RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

E&S DETAILS

C-009

NOTE: GROUND PLANE PROTECTION TO BE USED DURING CONSTRUCTION IN AREAS WHERE HEAVY EQUIPMENT PASSES OVER TREE ROOTS. INSTALL IN LOCATIONS AS NEEDED AND AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.



SOIL PROTECTION SECTION 8  
NOT TO SCALE L-001

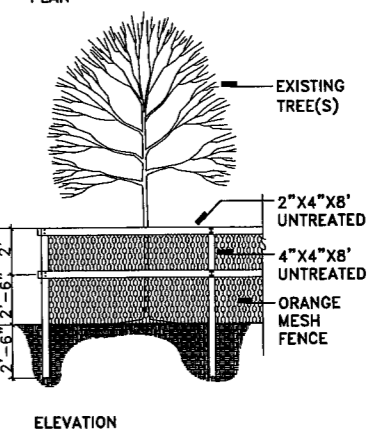
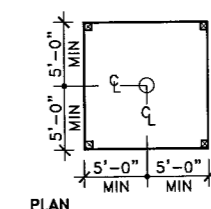
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- KEY
- TREE PROTECTION FENCE, SEE DETAIL 1/L-001.
  - TREE TO BE REMOVED

- NOTES:
- USE UNTREATED LUMBER FOR TREE PROTECTION FENCING.
  - SEE PLAN FOR EXTENT AND LOCATION OF FENCE. LOCATE ON SITE WITH OWNER'S REPRESENTATIVE.
  - ORANGE MESH FENCE TO BE TENAX DIAMEX: AS AVAILABLE FROM TENAX CORP., BALTIMORE, MD. OR APPROVED EQUIVALENT.
  - DIMENSION VARIES WITH CALIPER, 1'-0" PER 1" CALIPER. MINIMUM PROTECTION NOT LESS THAN 10'-0" SQUARE.



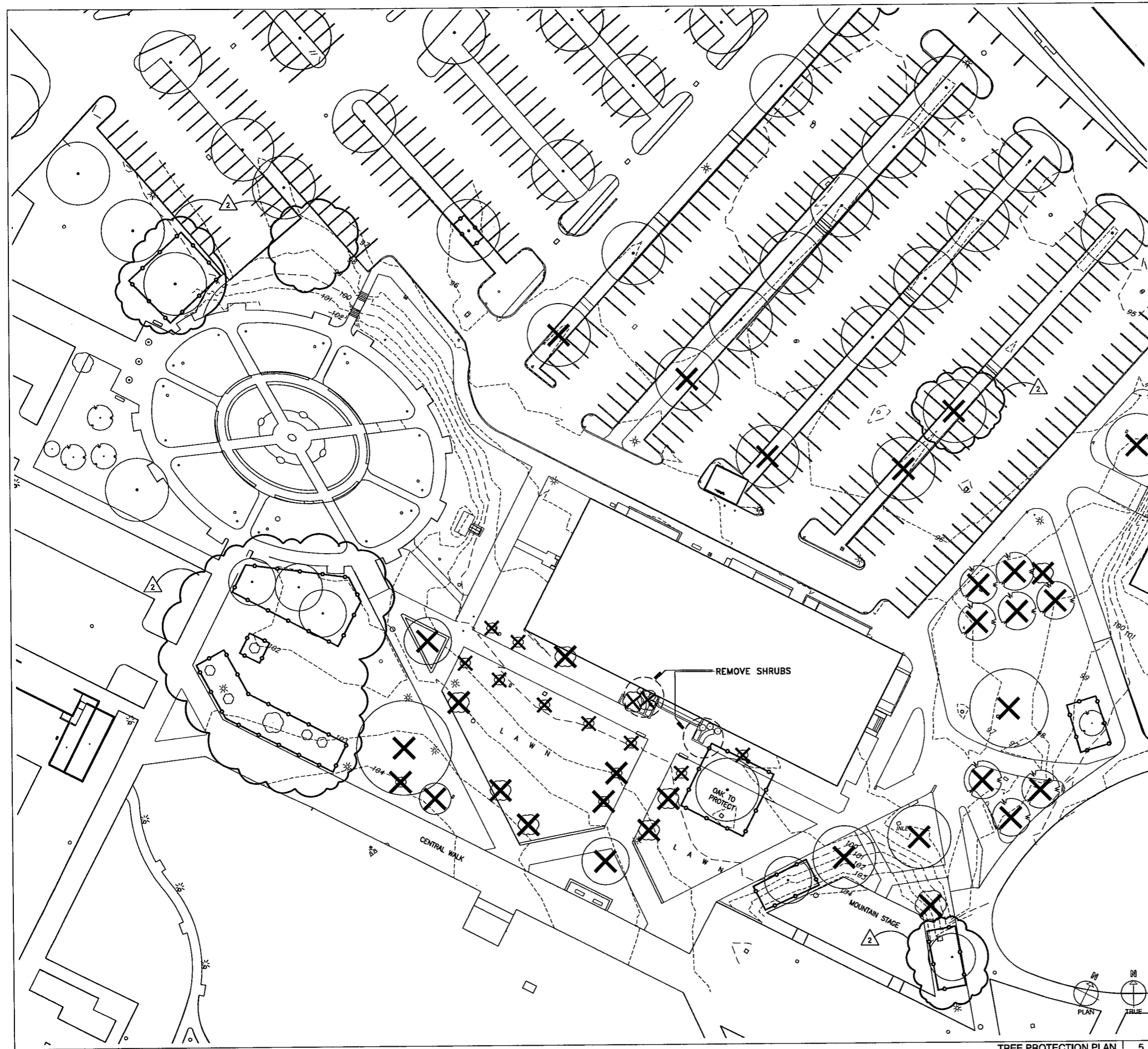
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**WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION**

1800 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

TREE PROTECTION PLAN

**L-001**

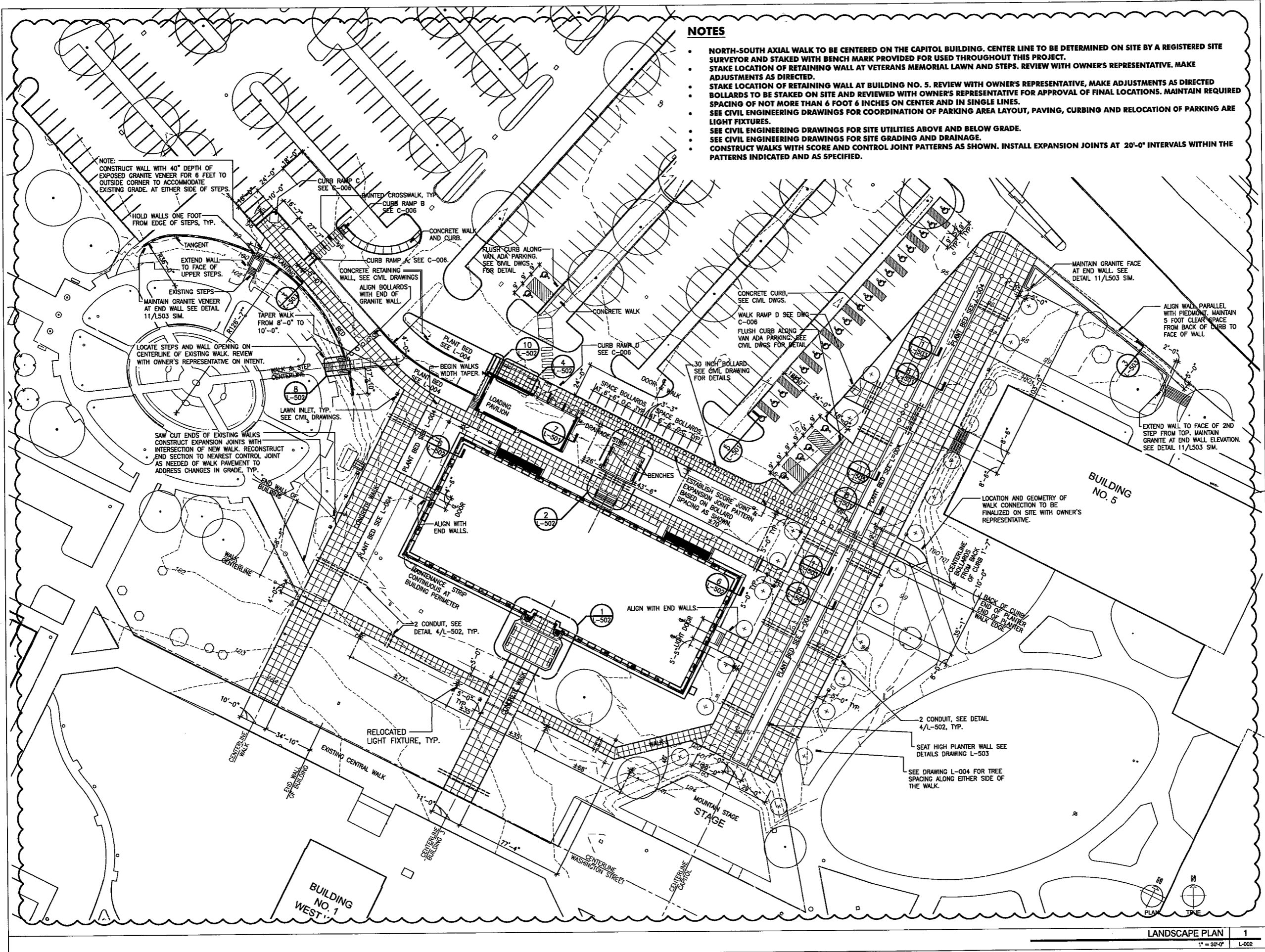


TREE PROTECTION PLAN 5  
1" = 30'-0" L-001

TREE PROTECTION FENCE 1  
1/4" = 1'-0" L-001

**NOTES**

- NORTH-SOUTH AXIAL WALK TO BE CENTERED ON THE CAPITOL BUILDING. CENTER LINE TO BE DETERMINED ON SITE BY A REGISTERED SITE SURVEYOR AND STAKED WITH BENCH MARK PROVIDED FOR USED THROUGHOUT THIS PROJECT.
- STAKE LOCATION OF RETAINING WALL AT VETERANS MEMORIAL LAWN AND STEPS. REVIEW WITH OWNER'S REPRESENTATIVE. MAKE ADJUSTMENTS AS DIRECTED.
- STAKE LOCATION OF RETAINING WALL AT BUILDING NO. 5. REVIEW WITH OWNER'S REPRESENTATIVE, MAKE ADJUSTMENTS AS DIRECTED
- BOLLARDS TO BE STAKED ON SITE AND REVIEWED WITH OWNER'S REPRESENTATIVE FOR APPROVAL OF FINAL LOCATIONS. MAINTAIN REQUIRED SPACING OF NOT MORE THAN 6 FOOT 6 INCHES ON CENTER AND IN SINGLE LINES.
- SEE CIVIL ENGINEERING DRAWINGS FOR COORDINATION OF PARKING AREA LAYOUT, PAVING, CURBING AND RELOCATION OF PARKING ARE LIGHT FIXTURES.
- SEE CIVIL ENGINEERING DRAWINGS FOR SITE UTILITIES ABOVE AND BELOW GRADE.
- SEE CIVIL ENGINEERING DRAWINGS FOR SITE GRADING AND DRAINAGE.
- CONSTRUCT WALKS WITH SCORE AND CONTROL JOINT PATTERNS AS SHOWN. INSTALL EXPANSION JOINTS AT 20'-0" INTERVALS WITHIN THE PATTERNS INDICATED AND AS SPECIFIED.

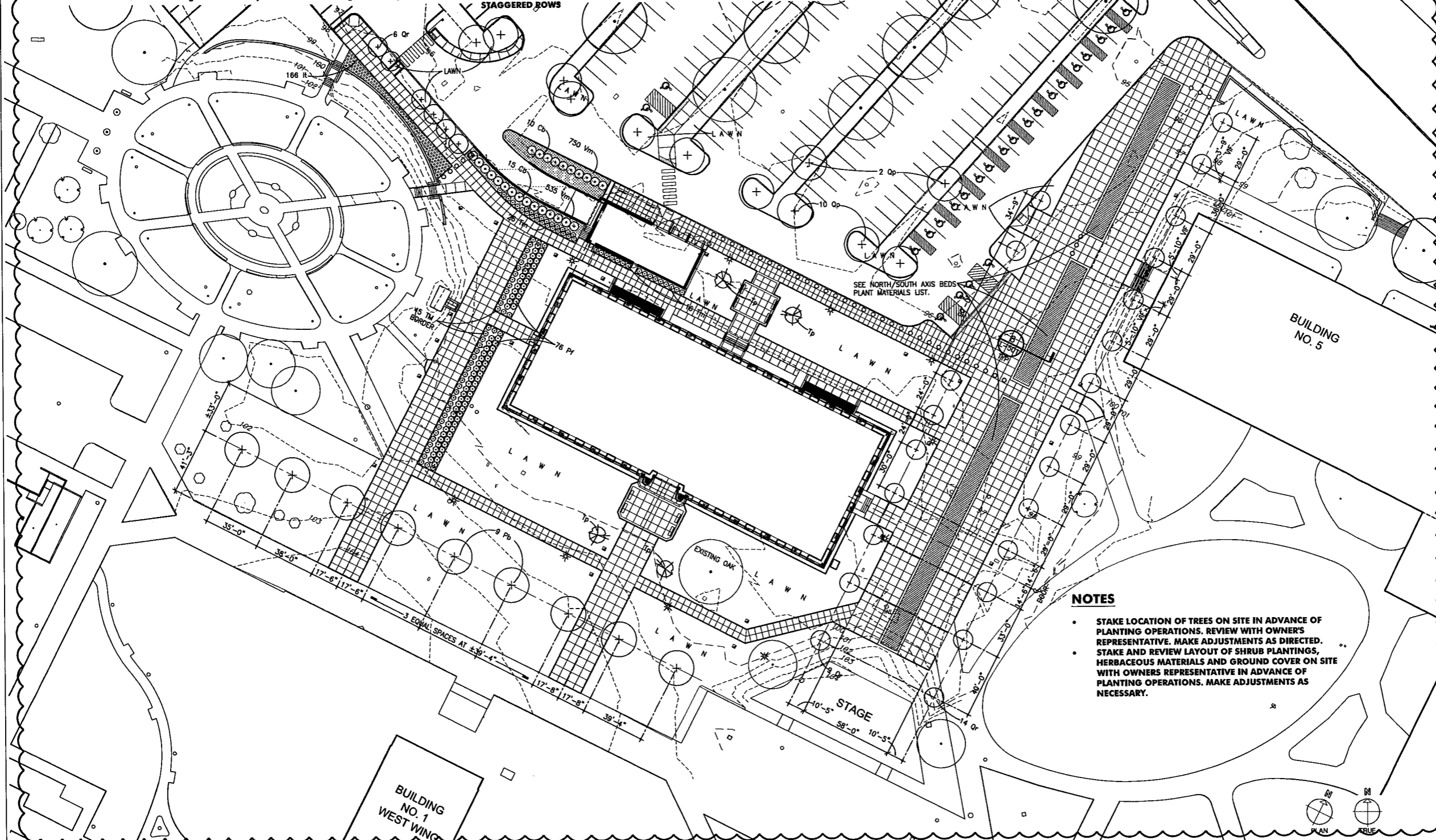


**PLANT MATERIALS LIST**

QTY	CODE	SCIENTIFIC NAME	COMMON NAME	SPACING	FORM & SIZE	NOTES
<b>DECIDUOUS TREES</b>						
25	Cb	<i>Carpinus betulus</i> 'Fastiglata'	Upright European Hornbeam	5 1/2' O.C.	SINGLESTEM, 2-2 1/2" CAL	B&B
9	Pb	<i>Platanus x acerifolia</i> 'Bloodgood'	Bloodgood Planetree	AS SHOWN	SINGLESTEM, 2-2 1/2" CAL	B&B
12	Qp	<i>Quercus palustris</i>	Pin Oak	AS SHOWN	SINGLESTEM, 2-2 1/2" CAL	B&B
6	Qr	<i>Quercus robur</i> 'Fastiglata'	Upright English Oak	AS SHOWN	SINGLESTEM, 2-2 1/2" CAL	B&B
23	Qr	<i>Quercus robur</i> 'Fastiglata'	Upright English Oak	AS SHOWN	SINGLESTEM, 3-3 1/2" CAL	B&B
<b>EVERGREEN TREES</b>						
4	Tp	<i>Thuja occidentalis</i> 'Pyramidalis'	Pyramidal Arborvitae	AS SHOWN	SINGLESTEM, 8-10' HT	
<b>EVERGREEN SHRUBS/HEDGES</b>						
76	Pf	<i>Pieris x</i> 'Brower's Beauty'	Andromeda Brower's Beauty	36" O.C.	3 GALLON	
87	Tm	<i>Taxus media</i>	Anglojap Yew	AS SHOWN	24-30" HT	B&B
<b>GROUND COVERS &amp; PERENNIALS</b>						
1285	Vm	<i>Vinca minor</i>	Common Myrtle	12" O.C.	2 1/4" POTS	CONT
166	It	<i>Ita virginica</i> 'Little Henry'	Virginia Sweetspire 'Little Henry'	24" O.C.	3 GALLON	CONT

**NORTH/SOUTH AXIS BEDS PLANT MATERIALS LIST**

QTY	CODE	SCIENTIFIC NAME	COMMON NAME	SPACING	FORM & SIZE	NOTES
<b>SHRUBS</b>						
70	Ha	<i>Hydrangea arborescens</i> 'Incrediball'	Incrediball Hydrangea	48" O.C.	3 GALLON	CONT
80	Hk	<i>Hypericum kalmianum</i> 'Blue Velvet'	Blue Velvet St. Johnswort	30" O.C.	3 GALLON	CONT
65	Iv	<i>Ilex verticillata</i> 'Red Sprite'	Winterberry Red Sprite (female)	30" O.C.	3 GALLON	CONT
5	Ivm	<i>Ilex verticillata</i> 'Jim Dandy'	Winterberry Jim Dandy (male)	30" O.C.	3 GALLON	CONT
90	It	<i>Ita virginica</i> 'Little Henry'	Virginia Sweetspire Little Henry	30" O.C.	3 GALLON	CONT
<b>PERENNIALS</b>						
90	Ab	<i>Agastache</i> 'Blue Fortune'	Blue Fortune Agastache	18" O.C.	1 QUART	CONT
90	At	<i>Amsonia hubrichtii</i>	Blue Star amsonia	30" O.C.	2 GALLON	CONT
210	Gc	<i>Geranium cinereum</i> 'Purple Pillow'	Purple Geranium	18" O.C.	1 QUART	CONT
240	Hr	<i>Heemerocallis</i> 'Happy Returns'	Daylily Happy Returns	18" O.C.	1 GALLON	CONT
90	Ha	<i>Heuchera americana</i>	Native Alum Root	12" O.C.	1 QUART	CONT
180	Of	<i>Oenothera fruticosa</i> 'Fireworks'	Evening Primrose Fireworks	12" O.C.	1 QUART	CONT
120	Pp	<i>Podophyllum peltatum</i>	May apple	9" O.C.	1 QUART	CONT
240	Sa	<i>Syrinchium angustifolium</i>	Blue Eye Grass	9" O.C.	1 QUART	CONT
240	Ps	<i>Tiarellis cordifolia</i>	Foamflower	12" O.C.	1 QUART	CONT
90	Tc	<i>Trollius cultorum</i> 'Cheddar'	Cheddar Globeflower	12" O.C.	1 QUART	CONT
120	Vs	<i>Veronica</i> 'Sunny Border Blue'	Sunny border Veronica	18" O.C.	1 QUART	CONT



**NOTES**

- STAKE LOCATION OF TREES ON SITE IN ADVANCE OF PLANTING OPERATIONS. REVIEW WITH OWNER'S REPRESENTATIVE. MAKE ADJUSTMENTS AS DIRECTED.
- STAKE AND REVIEW LAYOUT OF SHRUB PLANTINGS, HERBACEOUS MATERIALS AND GROUND COVER ON SITE WITH OWNERS REPRESENTATIVE IN ADVANCE OF PLANTING OPERATIONS. MAKE ADJUSTMENTS AS NECESSARY.



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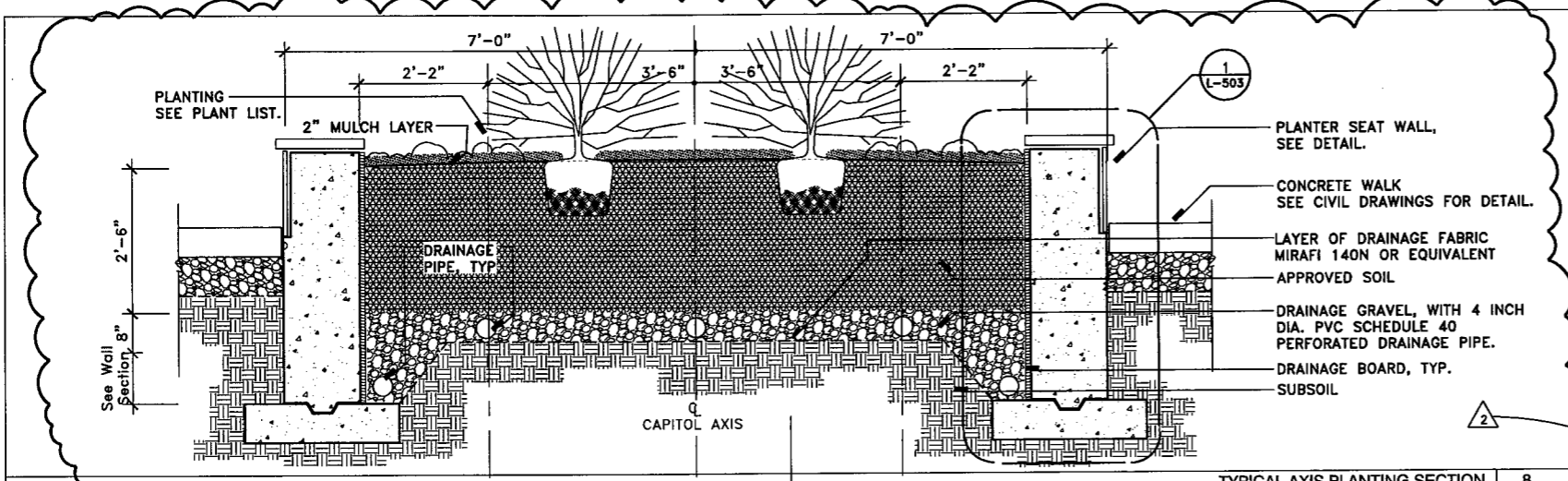


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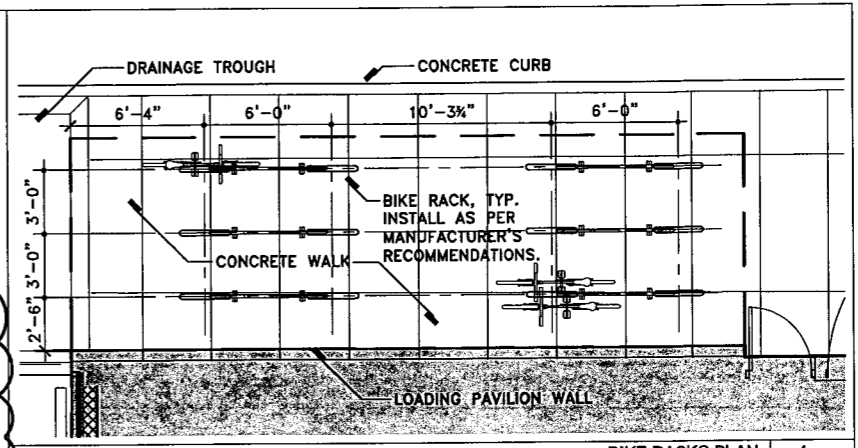
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 CHARLESTON, WEST VIRGINIA 25305

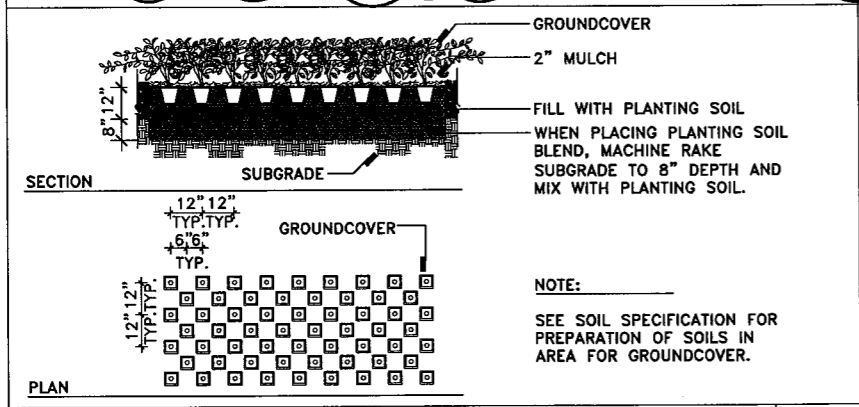
LANDSCAPE PLANTING PLAN



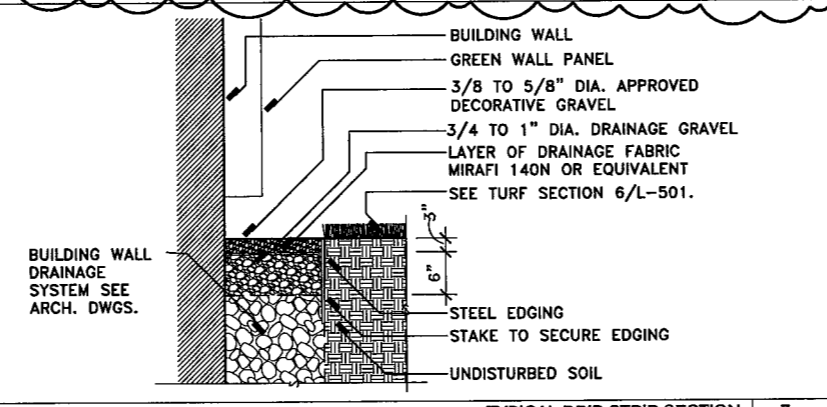
TYPICAL AXIS PLANTING SECTION 8  
3/4" = 1'-0" L-501



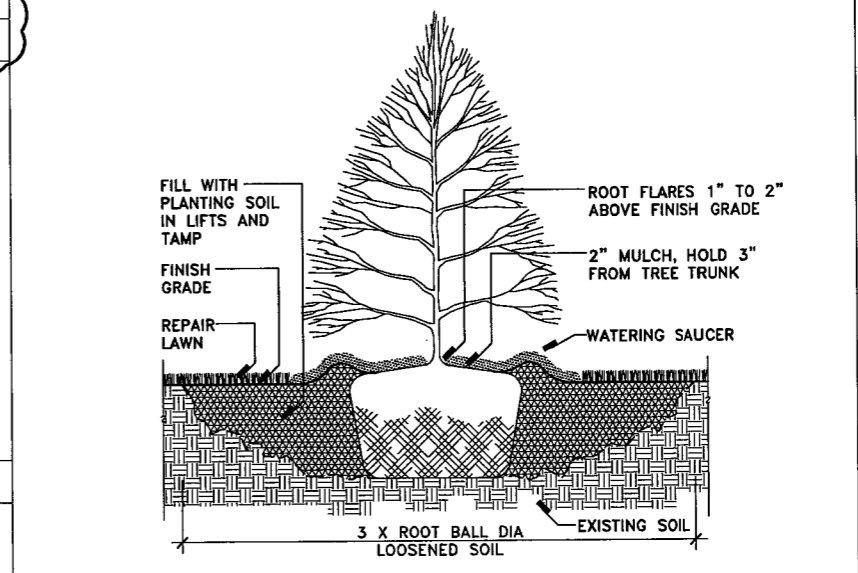
BIKE RACKS PLAN 4  
1/4" = 1'-0" L-501



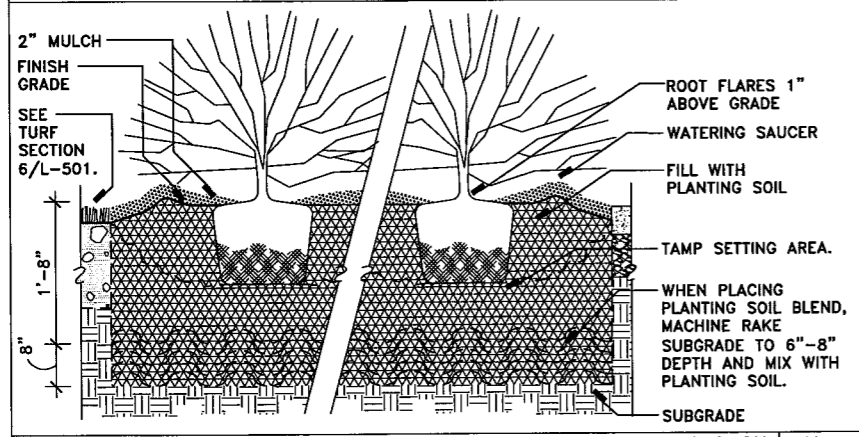
TYPICAL GROUND COVER 11  
3/8" = 1'-0" L-501



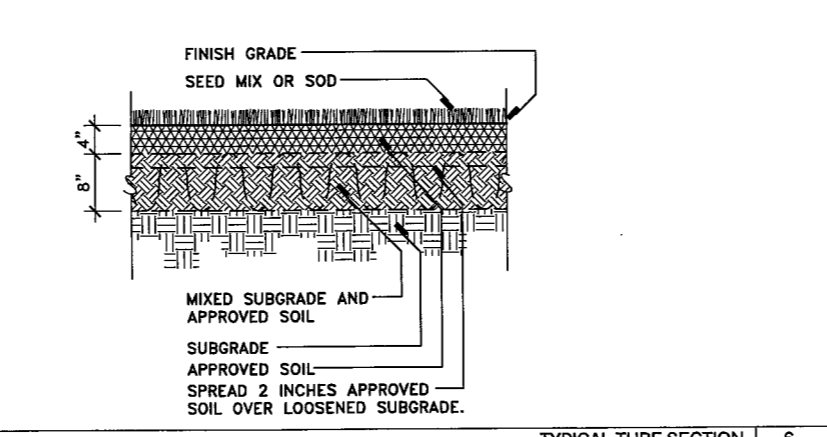
TYPICAL DRIP STRIP SECTION 7  
1" = 1'-0" L-501



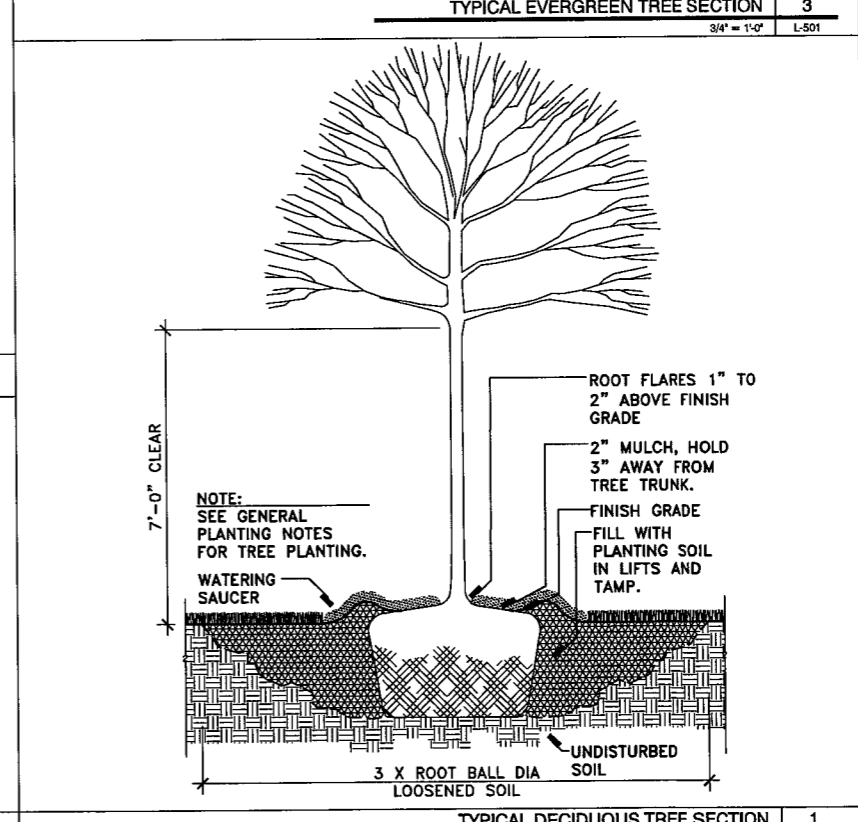
TYPICAL EVERGREEN TREE SECTION 3  
3/4" = 1'-0" L-501



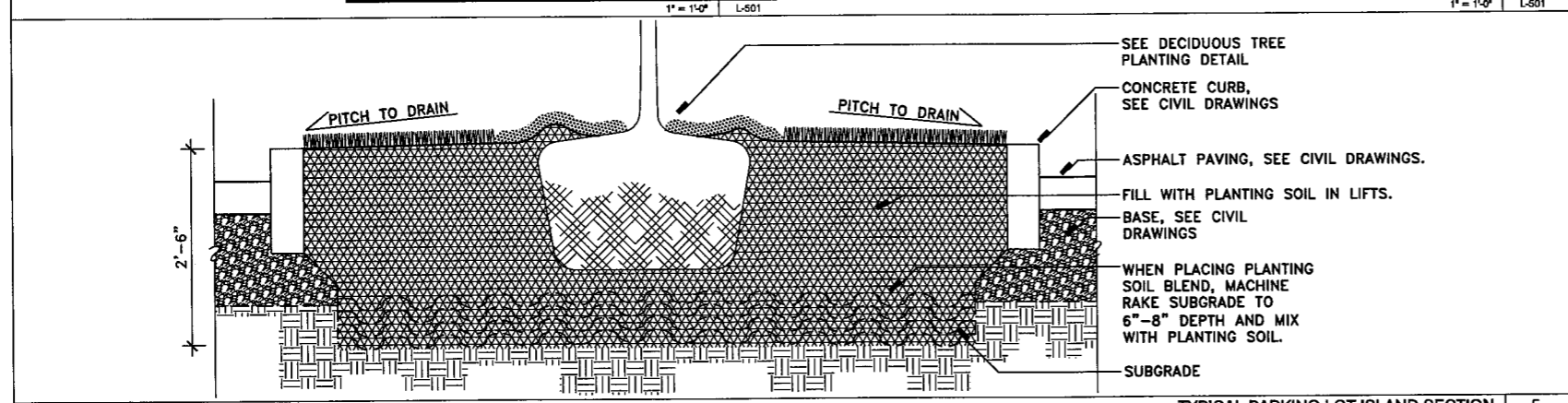
TYPICAL SHRUB SECTION 10  
1" = 1'-0" L-501



TYPICAL TURF SECTION 6  
1" = 1'-0" L-501



TYPICAL DECIDUOUS TREE SECTION 1  
3/4" = 1'-0" L-501



TYPICAL PARKING LOT ISLAND SECTION 5  
1" = 1'-0" L-501



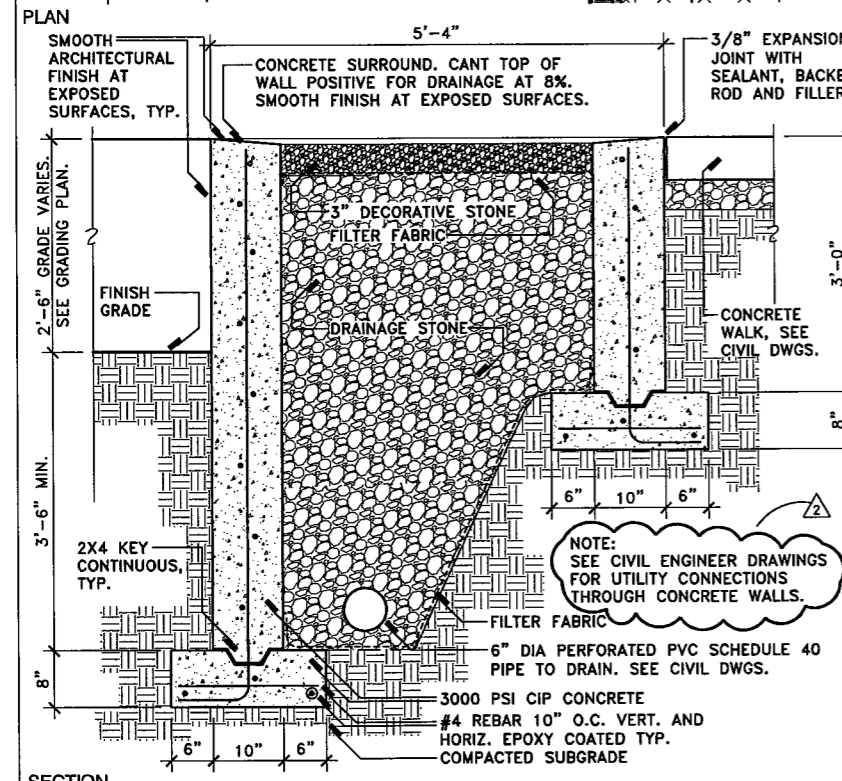
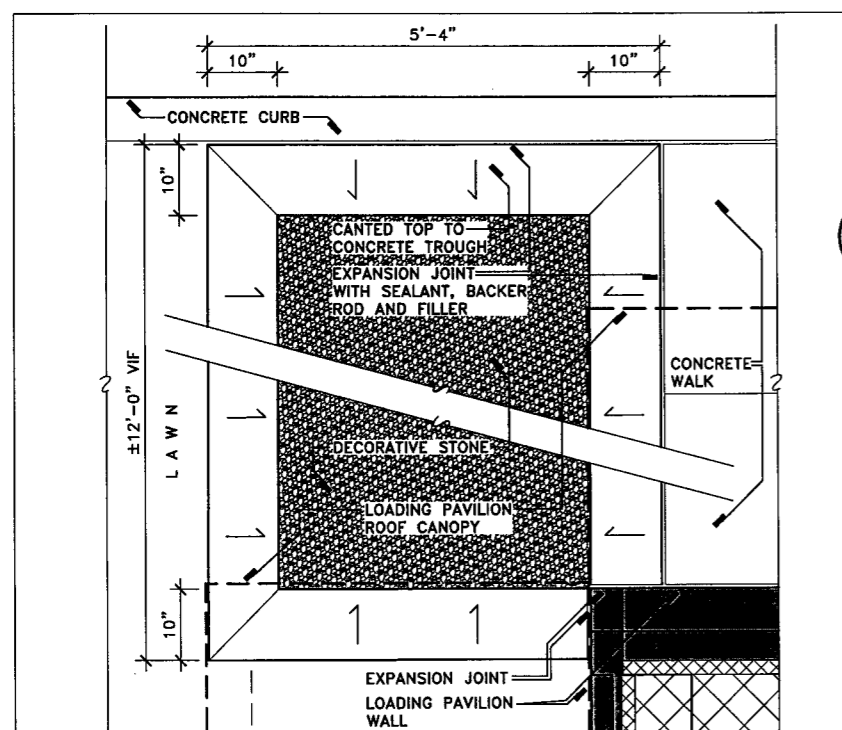
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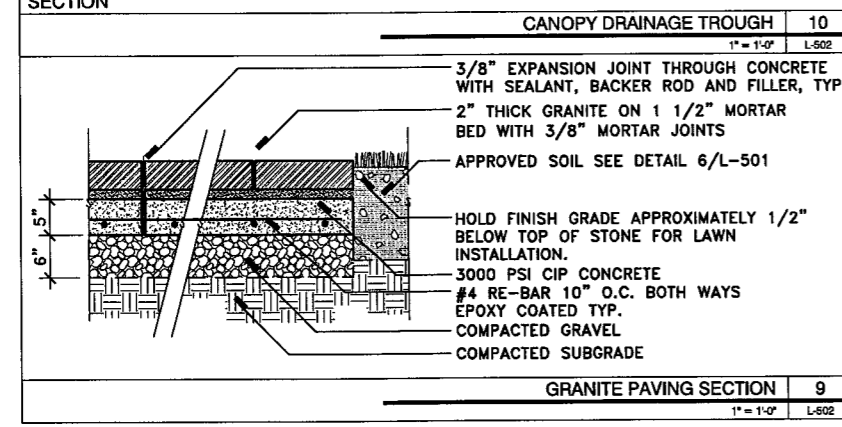
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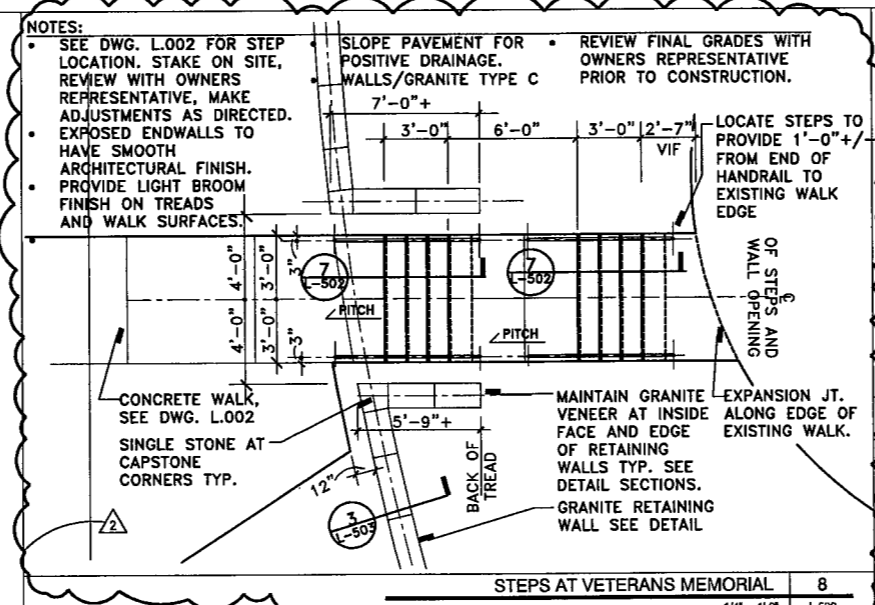
LANDSCAPE DETAILS



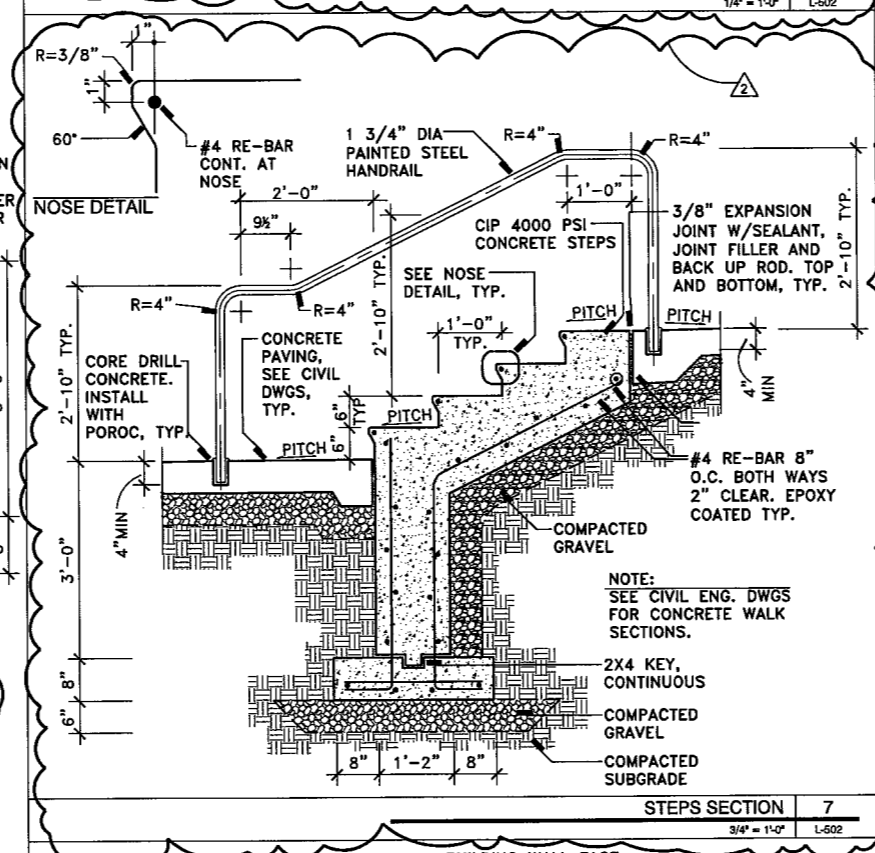
CANOPY DRAINAGE TROUGH 10  
1" = 1'-0" L-502



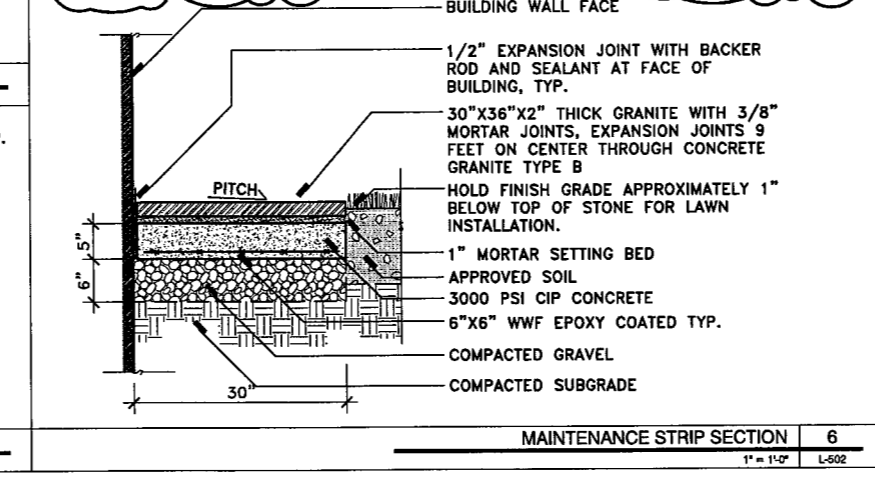
GRANITE PAVING SECTION 9  
1" = 1'-0" L-502



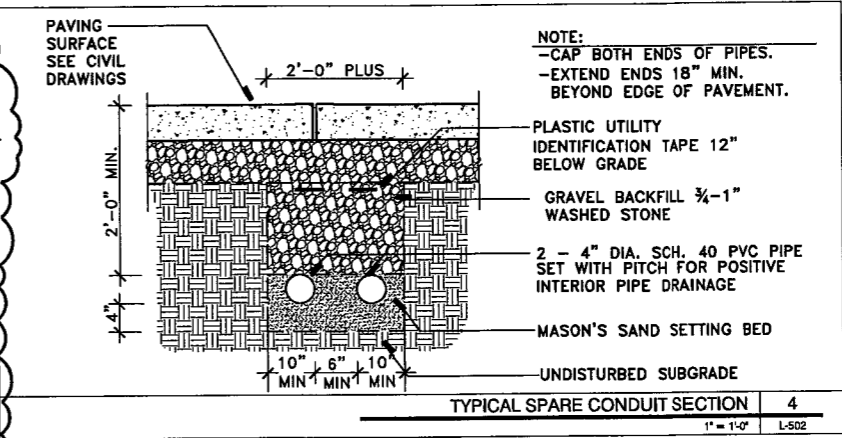
STEPS AT VETERANS MEMORIAL 8  
1/4" = 1'-0" L-502



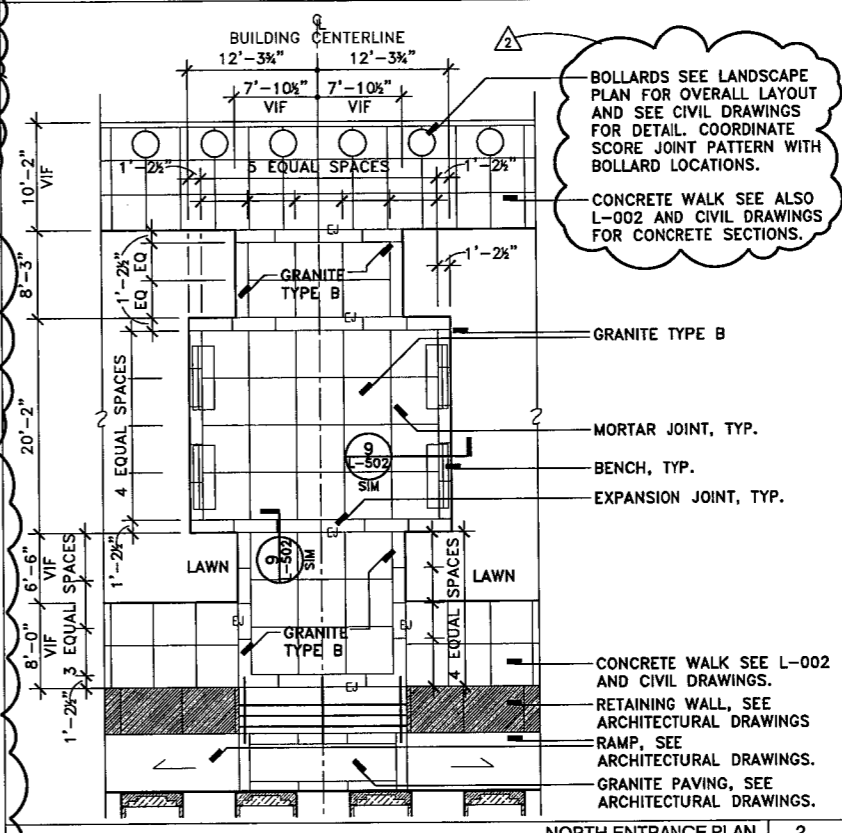
STEPS SECTION 7  
3/4" = 1'-0" L-502



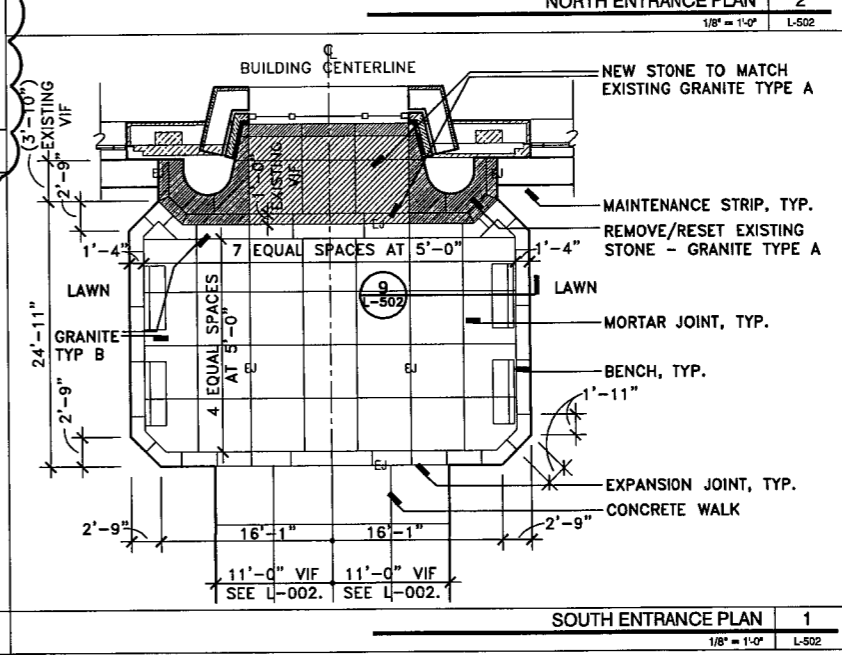
MAINTENANCE STRIP SECTION 6  
1" = 1'-0" L-502



TYPICAL SPARE CONDUIT SECTION 4  
1" = 1'-0" L-502



NORTH ENTRANCE PLAN 2  
1/8" = 1'-0" L-502



SOUTH ENTRANCE PLAN 1  
1/8" = 1'-0" L-502

NOTES:  
• SEE DWG. L.002 FOR STEP LOCATION. STAKE ON SITE, REVIEW WITH OWNERS REPRESENTATIVE, MAKE ADJUSTMENTS AS DIRECTED.  
• EXPOSED ENDWALLS TO HAVE SMOOTH ARCHITECTURAL FINISH.  
• PROVIDE LIGHT BROOM FINISH ON TREADS AND WALK SURFACES.  
• SLOPE PAVEMENT FOR POSITIVE DRAINAGE.  
• WALLS/GRANITE TYPE C 7'-0"+  
• REVIEW FINAL GRADES WITH OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.  
• LOCATE STEPS TO PROVIDE 1'-0"+/- FROM END OF HANDRAIL TO EXISTING WALK EDGE  
• OF STEPS AND WALL OPENING  
• MAINTAIN GRANITE VENEER AT INSIDE FACE AND EDGE OF RETAINING WALLS TYP. SEE DETAIL SECTIONS.  
• GRANITE RETAINING WALL SEE DETAIL  
• EXPANSION JT. ALONG EDGE OF EXISTING WALK.  
• CONCRETE WALK, SEE DWG. L.002  
• SINGLE STONE AT CAPSTONE CORNERS TYP.  
• BACK OF TREAD  
• 12"

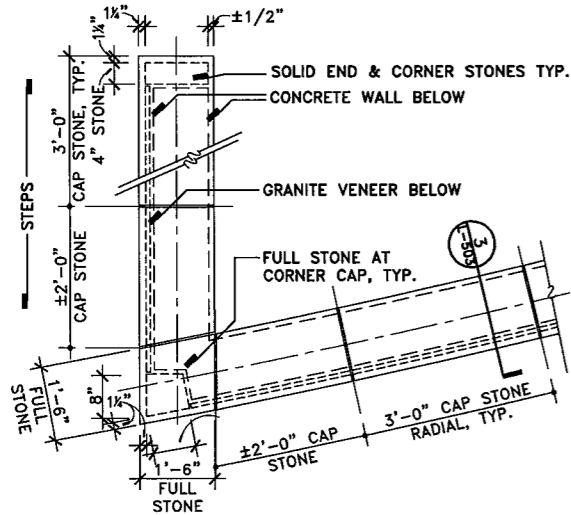
NOTE:  
-CAP BOTH ENDS OF PIPES.  
-EXTEND ENDS 18" MIN. BEYOND EDGE OF PAVEMENT.  
• PLASTIC UTILITY IDENTIFICATION TAPE 12" BELOW GRADE  
• GRAVEL BACKFILL 3/4-1" WASHED STONE  
• 2 - 4" DIA. SCH. 40 PVC PIPE SET WITH PITCH FOR POSITIVE INTERIOR PIPE DRAINAGE  
• MASON'S SAND SETTING BED  
• UNDISTURBED SUBGRADE

BOLLARDS SEE LANDSCAPE PLAN FOR OVERALL LAYOUT AND SEE CIVIL DRAWINGS FOR DETAIL. COORDINATE SCORE JOINT PATTERN WITH BOLLARD LOCATIONS.  
• CONCRETE WALK SEE ALSO L-002 AND CIVIL DRAWINGS FOR CONCRETE SECTIONS.  
• GRANITE TYPE B  
• MORTAR JOINT, TYP.  
• BENCH, TYP.  
• EXPANSION JOINT, TYP.  
• CONCRETE WALK SEE L-002 AND CIVIL DRAWINGS.  
• RETAINING WALL, SEE ARCHITECTURAL DRAWINGS  
• RAMP, SEE ARCHITECTURAL DRAWINGS.  
• GRANITE PAVING, SEE ARCHITECTURAL DRAWINGS.

NEW STONE TO MATCH EXISTING GRANITE TYPE A  
• MAINTENANCE STRIP, TYP.  
• REMOVE/RESET EXISTING STONE - GRANITE TYPE A  
• MORTAR JOINT, TYP.  
• BENCH, TYP.  
• EXPANSION JOINT, TYP.  
• CONCRETE WALK  
• 7 EQUAL SPACES AT 5'-0"  
• 4 EQUAL SPACES AT 5'-0"  
• 4 EQUAL SPACES  
• 11'-0" VIF SEE L-002. SEE L-002.

**NOTES:**

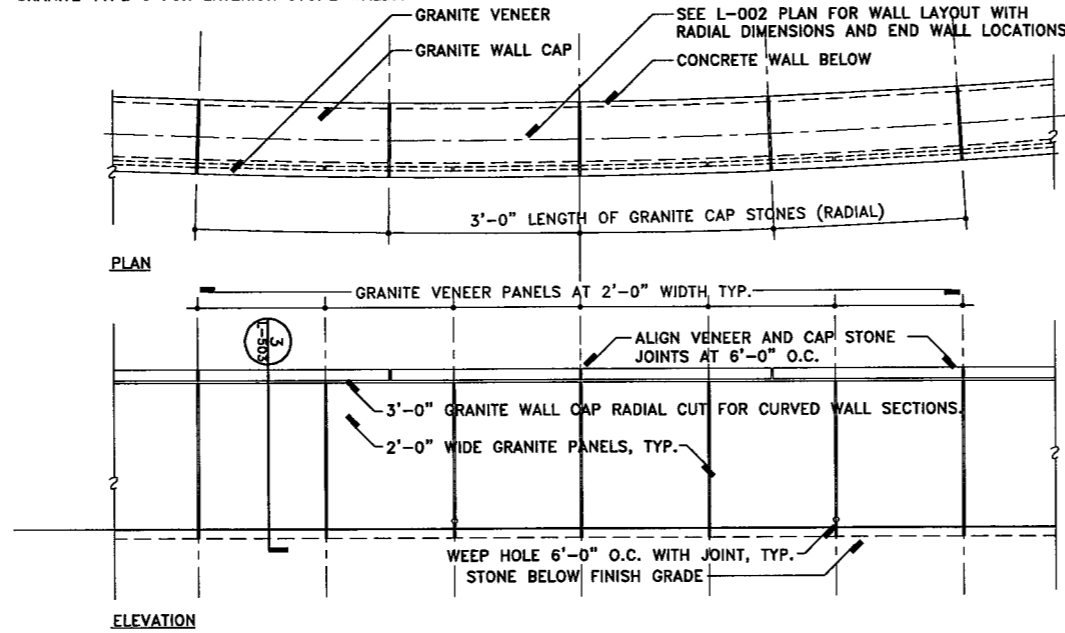
- LENGTH OF RETURN WALLS VARIES WITH LOCATION. SEE LANDSCAPE PLAN FOR ADDITIONAL INFORMATION
- STONE CAP LENGTH WILL VARY WITH END WALL LENGTH. USE STONES NOT LESS THAN 24 INCHES OR MORE THAN 36 INCHES IN LENGTH.
- GRANITE TYPE C FOR RETAINING WALLS FACE AND CAPS.
- SEE ALSO GENERAL NOTES: SEAT WALL AND RETAINING WALL



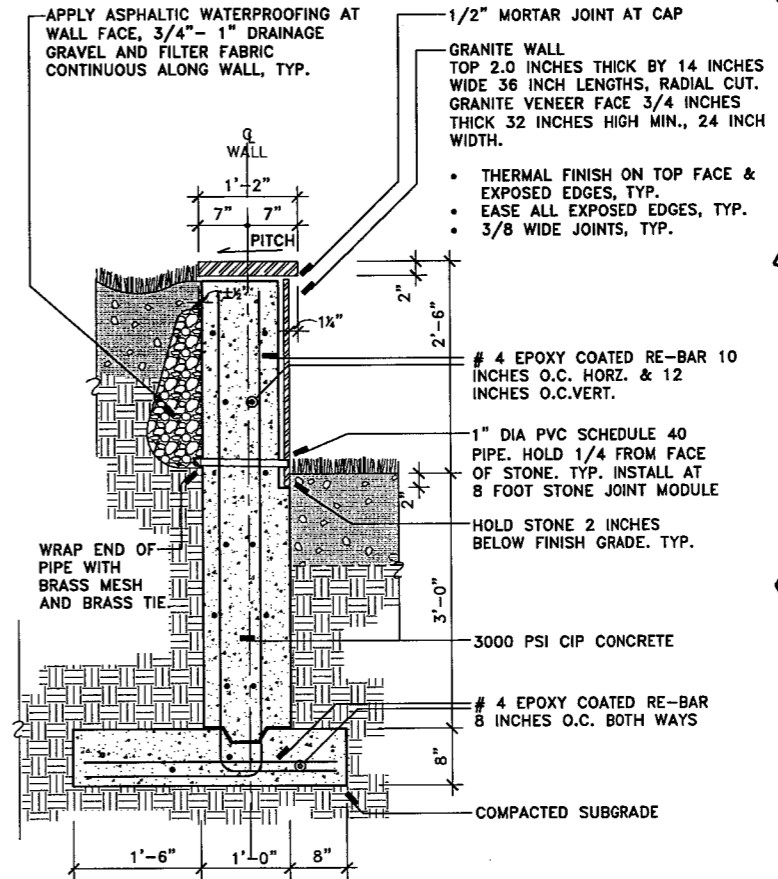
GRANITE RETAINING WALL  
VETERANS MEMORIAL AND BUILDING 5 LAWN 11  
3/4" = 1'-0" L-503

**GENERAL NOTES: SEAT WALL AND RETAINING WALL**

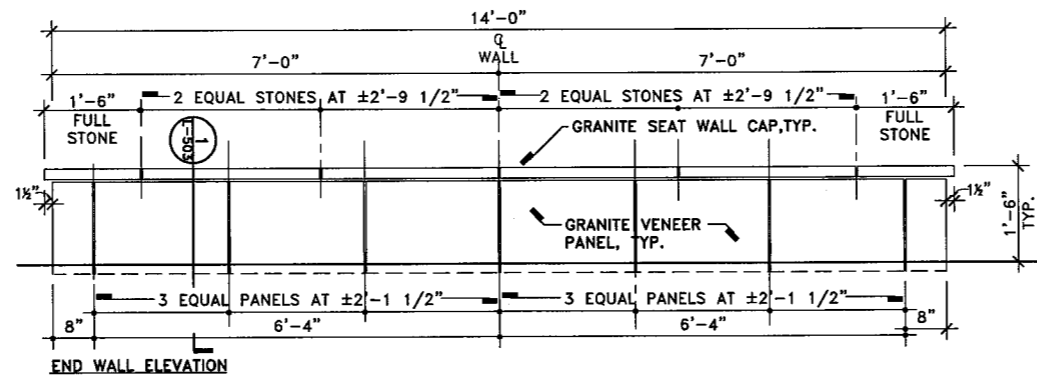
- PROVIDE FULL DEPTH EXPANSION JOINTS ALONG WALL AT 18 FEET LENGTHS TO BE COORDINATED WITH STONE WALL AND CAP JOINT MODULES.
- INSTALL 3/8 INCH EXPANSION JOINTS WITH BACKER ROD, EXPANSION BOARD AND SEALANT. SEALANT FOR APPLICATION OF BOTH VERTICAL AND HORIZONTAL JOINTS TO BE USED.
- MAINTAIN CONSISTENT TOP OF WALL ELEVATION FOR RETAINING WALL UNLESS OTHERWISE INDICATED. WHERE TOP OF WALL SLOPES WITH GRADE, CONSTRUCT WITH A CONSISTENT TOP OF WALL SLOPE, MAINTAIN VERTICAL PANELS AND JOINTS AT WALL FACE.
- TOP OF SEAT WALL MAY VARY WITH FINISH GRADE, CONSISTENT GRADIENT TO BE MAINTAINED.
- VERTICAL JOINTS AT WALL FACE TO BE MAINTAINED, PLUMB. DO NOT ANGLE JOINTS WITH GRADE.
- WALL CAPS AND SEATS TO PITCH FOR POSITIVE DRAINAGE
- ALL EXPOSED STONE SURFACES TO HAVE A THERMAL FINISH
- EASE ALL EXPOSED EDGES.
- GRANITE TYPE C FOR EXTERIOR STONE WALLS.



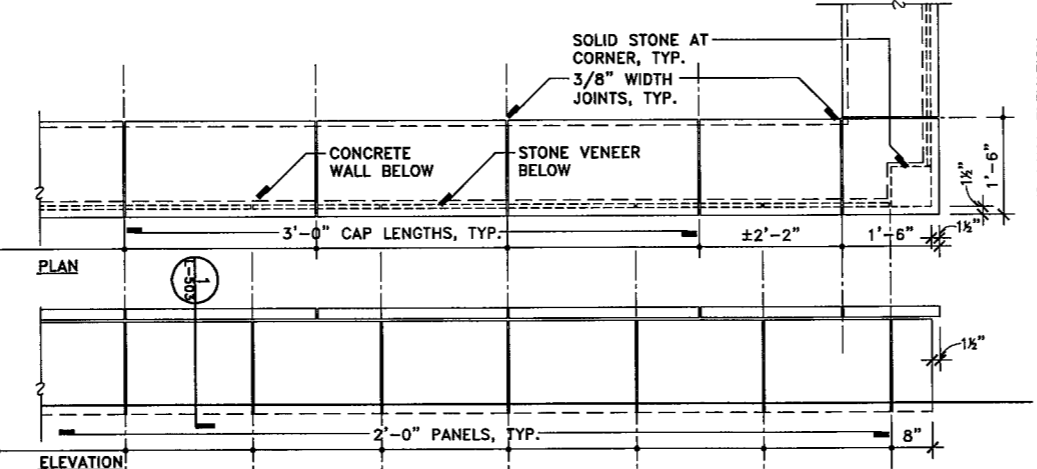
GRANITE RETAINING WALL VETERANS MEMORIAL AND BUILDING 5 LAWN 7  
3/4" = 1'-0" L-503



GRANITE RETAINING WALL: SECTION 3  
1" = 1'-0" L-503

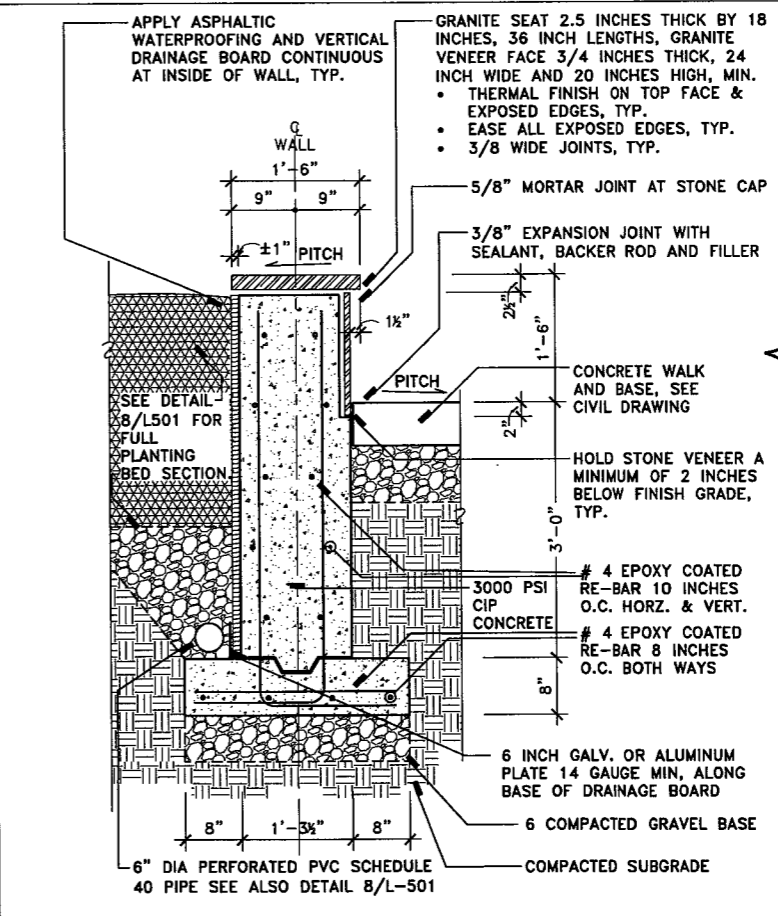


END WALL ELEVATION



ELEVATION

STONE SEAT WALL AT AXIAL WALK 5  
3/4" = 1'-0" L-503



GRANITE SEAT WALL: SECTION 1  
1" = 1'-0" L-503

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**Heritage Landscapes LLC**  
PRESERVATION LANDSCAPE ARCHITECTS & PLANNERS  
Charlotte, VT Norwich, CT Ashville, NC

PWWG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM NO. 2 12/8/2010

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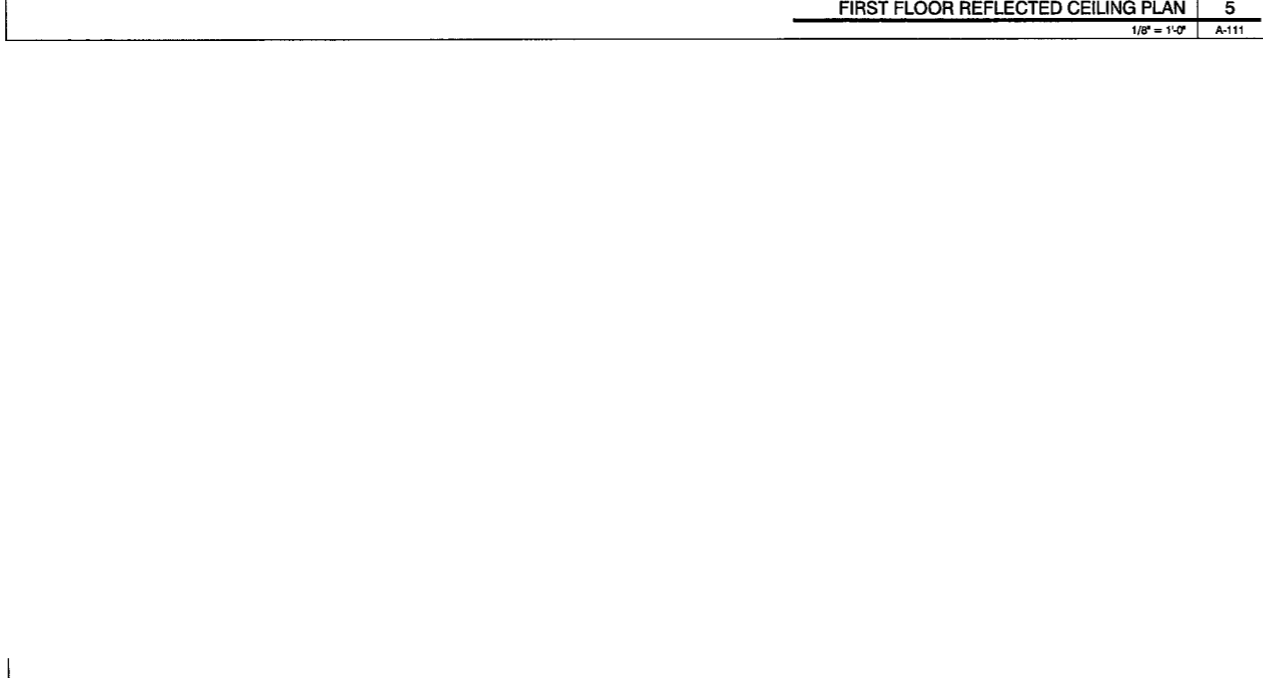
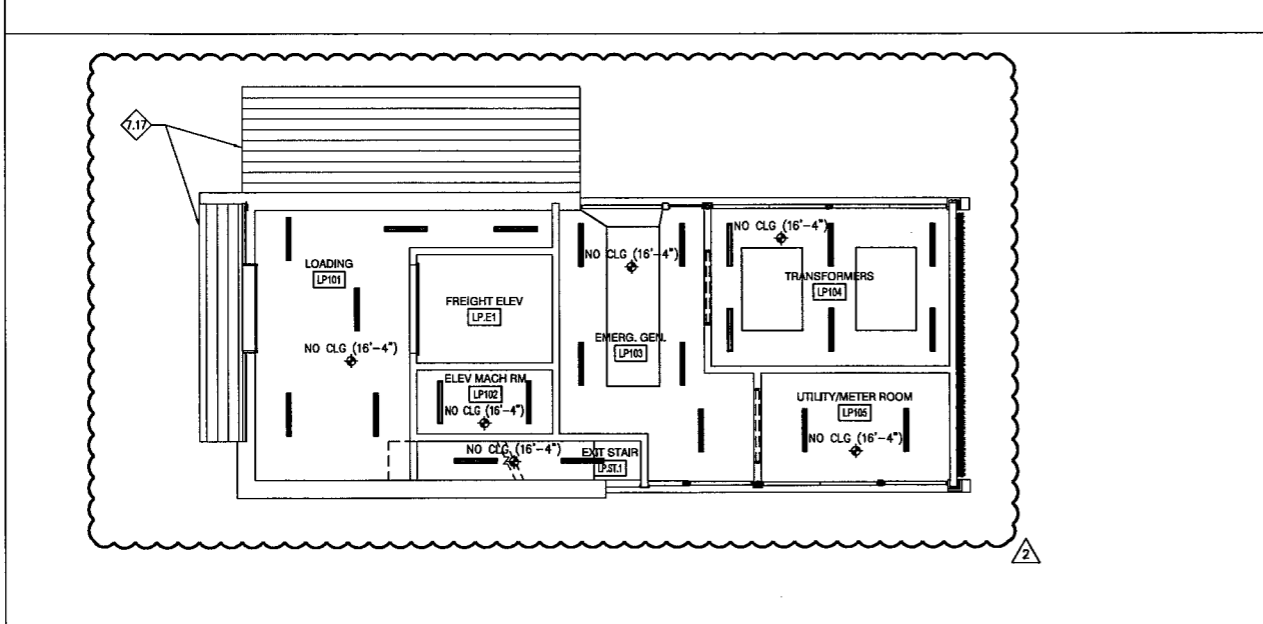
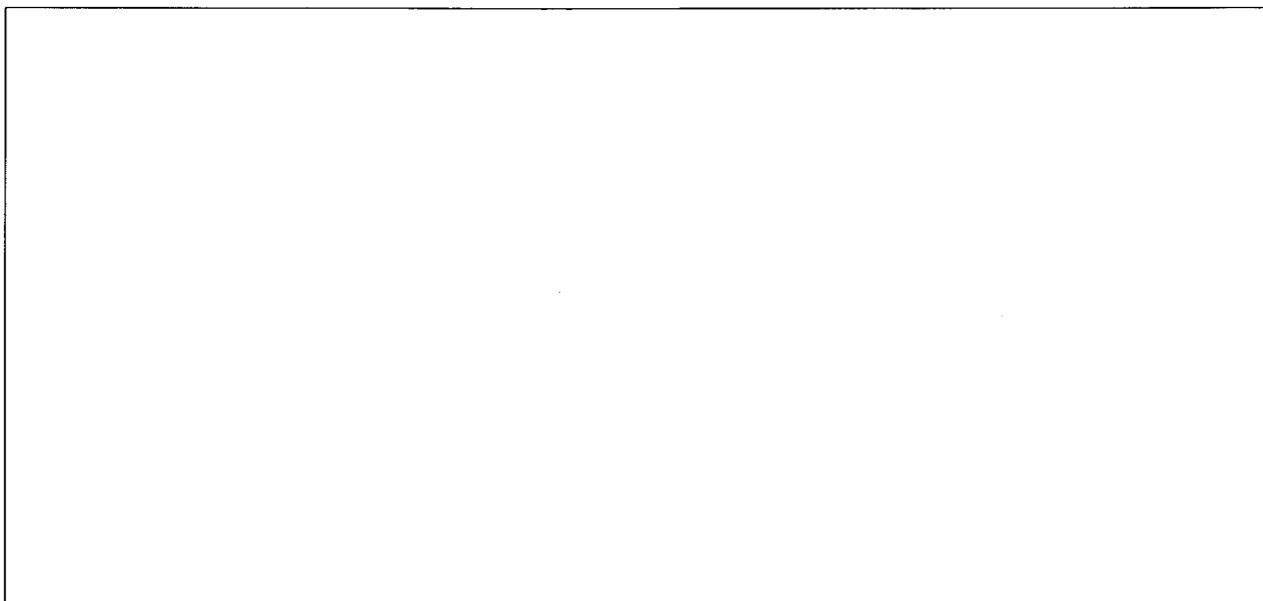
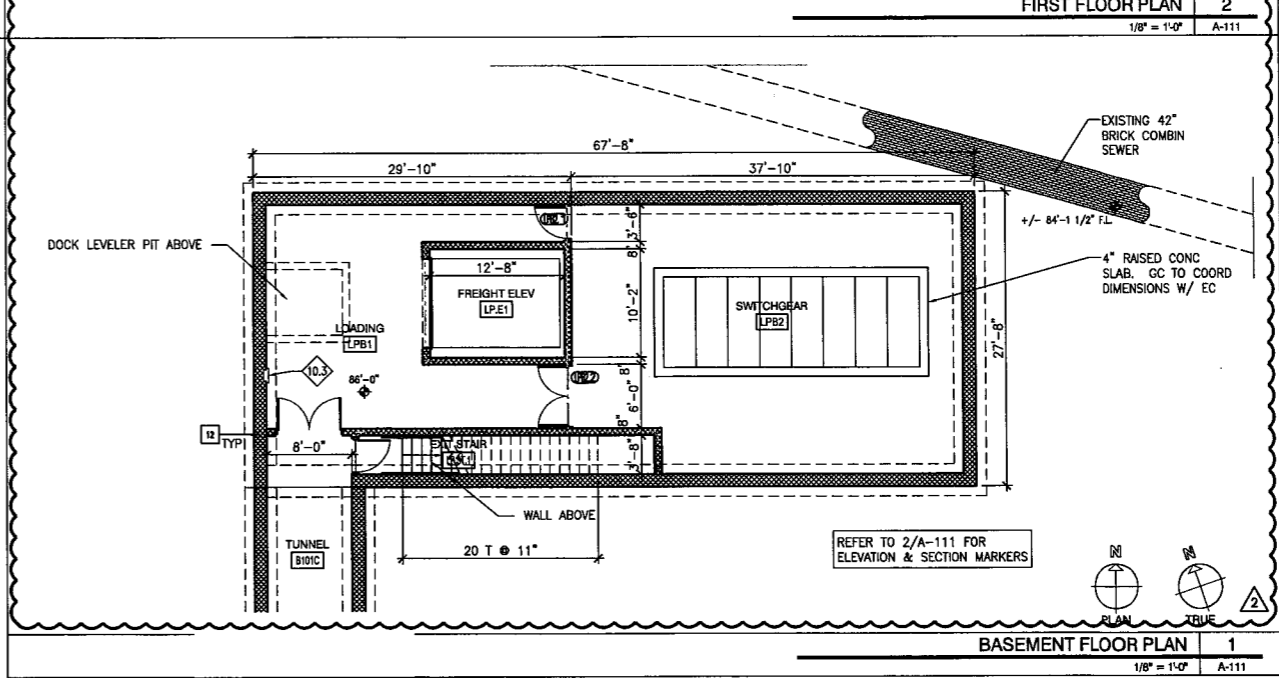
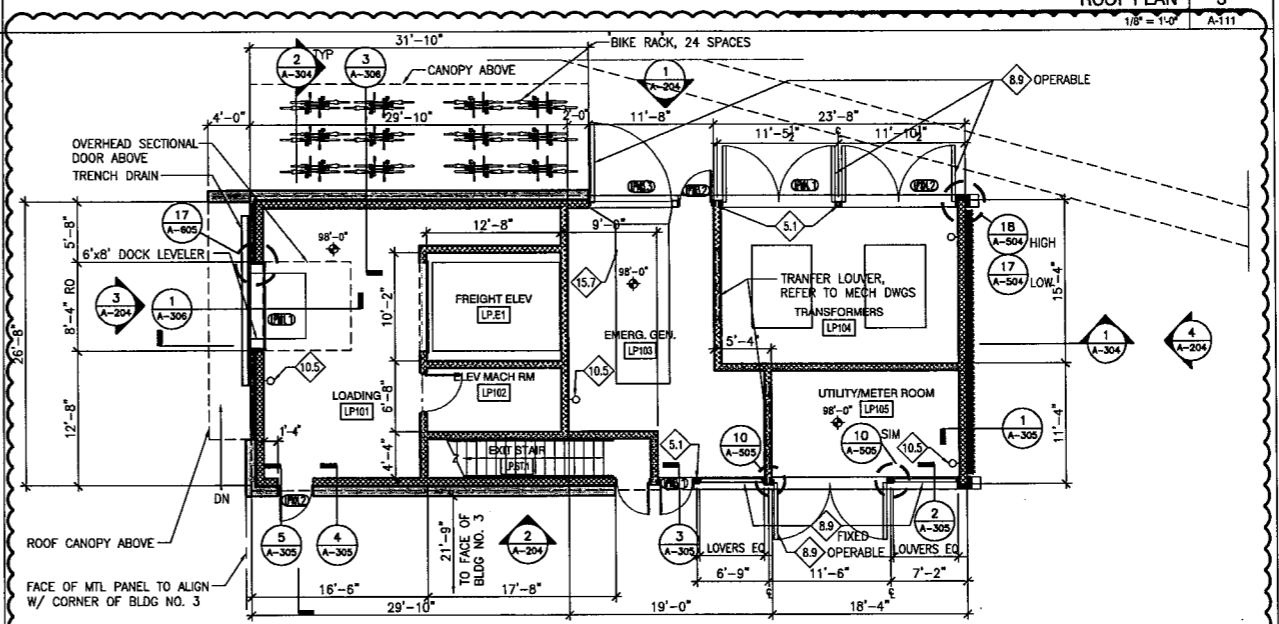
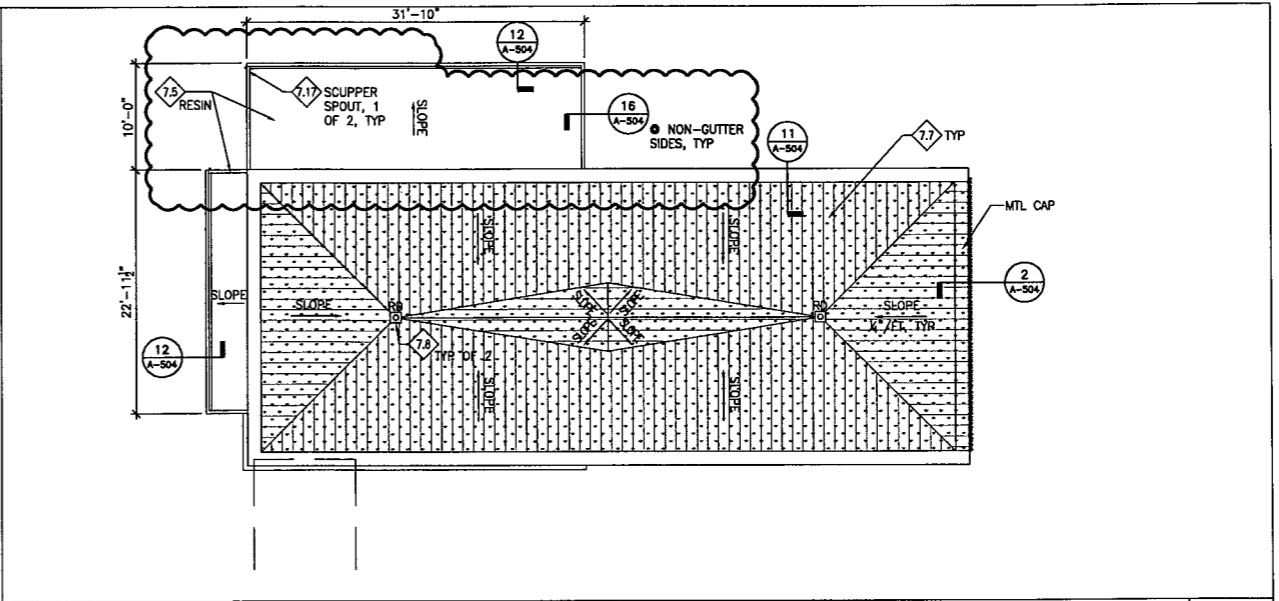
**WEST VIRGINIA STATE OFFICE BUILDING NO.3 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

LANDSCAPE DETAILS

**L-503**

- KEY NOTES**
- 3.1 CAST-IN-PLACE CONCRETE
  - 3.2 CONCRETE ON METAL DECK
  - 4.1 EXISTING BRICK
  - 4.2 EXISTING GRANITE
  - 4.3 EXISTING LIMESTONE
  - 4.4 EXISTING VIRGINIA GREENSTONE
  - 4.5 EXISTING MARBLE PANEL
  - 4.6 EXISTING MARBLE BASE
  - 4.7 MODULAR BRICK VENEER
  - 4.8 CONCRETE MASONRY UNIT
  - 4.9 CAST STONE CONCRETE
  - 4.10 SALVAGED MARBLE PANEL
  - 4.11 SALVAGED MARBLE BASE
  - 4.12 GRANITE
  - 4.13 LIMESTONE VENEER TO MATCH EXISTING
  - 4.14 EXISTING STONE THRESHOLD
  - 4.15 STONE THRESHOLD
  - 5.1 STRUCTURAL STEEL FRAMING - SEE STRUCT DWGS
  - 5.2 STEEL DECK - SEE STRUCT DWGS
  - 5.3 STEEL PAN STAIR
  - 5.4 COLD FORMED METAL FRAMING
  - 5.5 DECORATIVE METAL GUARDRAIL OR HANDRAIL
  - 5.6 PIPE AND TUBE RAILING
  - 5.7 METAL GRATING
  - 6.1 WOOD BLOCKING
  - 6.2 PLYWOOD SHEATHING
  - 6.3 INTERIOR ARCHITECTURAL WOODWORK
  - 7.1 SELF ADHERING WATERPROOF MEMBRANE
  - 7.2 SPRAY APPLIED INSULATION
  - 7.3 BLANKET INSULATION (ACOUSTIC OR THERMAL)
  - 7.4 RIGID INSULATION
  - 7.5 MEMBRANE ROOFING
  - 7.6 CLAY TILE ROOF
  - 7.7 GREENROOF SYSTEM
  - 7.8 ROOF DRAIN
  - 7.9 \_\_\_\_\_ NOT USED \_\_\_\_\_
  - 7.10 SHEET METAL FLASHING/TRIM
  - 7.11 APPLIED FIREPROOFING
  - 7.12 JOINT SEALANT AND/OR BACKER ROD (AS SHOWN)
  - 7.13 FOUNDATION WATERPROOFING & DRAINAGE BOARD
  - 7.14 FLUID-APPLIED AIR & WATER BARRIER
  - 7.15 FLEXIBLE WEIRB FLASHING OVER MTL DRIP EDGE
  - 7.16 COMPRESSIVE FILLER
  - 7.17 ZINC METAL CLADDING
  - 8.1 HM DOOR AND/OR FRAME
  - 8.2 FLUSH WD DOOR IN HM FRAME
  - 8.3 EXISTING METAL DOOR AND FRAME
  - 8.4 ACCESS DOOR AND FRAME
  - 8.5 ALUM AND GLASS STOREFRONT
  - 8.6 GLAZING
  - 8.7 ALL-GLASS STOREFRONT SYSTEM
  - 8.8 REFURBISH AND REPLACE EXIST BRONZE WINDOWS
  - 8.9 ARCHITECTURAL LOUVER
  - 8.10 INTERIOR STEEL WINDOW FRAME GLAZED W/ GL-3
  - 9.1 GYPSUM BOARD CEILING
  - 9.2 EXIST TERRAZZO FLOORING
  - 9.3 GYP. BD. AND/OR NON-STRUCT METAL FRAMING
  - 9.4 ACOUSTICAL PANEL CEILING
  - 9.5 RESILIENT TILE FLOORING
  - 9.6 CARPET
  - 9.7 RESILIENT WALL BASE
  - 9.8 TERRAZZO FLOORING
  - 9.9 TILE
  - 9.10 \_\_\_\_\_ NOT USED \_\_\_\_\_
  - 9.11 PREFINISHED WOOD PANEL SYSTEM
  - 9.12 GYPSUM VENEER PLASTER
  - 10.1 TOILET PARTITIONS
  - 10.2 DEMOUNTABLE PARTITIONS
  - 10.3 FIRE EXTINGUISHER CABINET
  - 10.4 METAL LOCKERS
  - 10.5 BRACKET MOUNTED FIRE EXTINGUISHER
  - 12.1 MANUFACTURED CASEWORK
  - 12.2 RECESSED FLOOR MAT
  - 12.3 ROLLER WINDOW SHADE
  - 12.4 SOLID SURFACE COUNTERTOP
  - 15.1 WATER COOLER
  - 15.2 BLOWER COIL UNIT
  - 15.3 RADIANT CEILING PANEL
  - 15.4 SIDEWALL DIFFUSER GRILLE
  - 15.5 SPRINKLER HEAD
  - 15.6 MECH LOUVER
  - 15.7 HVAC DUCT
  - 16.1 LIGHT FIXTURE



PWVG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM DECEMBER 8, 2010

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**WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

**LOADING PAVILION PLANS**

LOADING PAVILION (SEE ELEC DWGS)

LEGEND	
	SUSPENDED DIRECT/INDIRECT
	LAY-IN DIRECT/INDIRECT 2'x2'
	LAY-IN DIRECT/INDIRECT 2'x4'
	LAY-IN LINEAR DIRECT/INDIRECT 1'x4'
	RECESSED WALL SLOT
	SURFACE MOUNTED LINEAR
	WALL MOUNTED LINEAR
	LINEAR RECESSED 4'x6'
	REFURBISHED EXIST RECESSED 2'x2'
	RECESSED FIXTURE
	4' INDUSTRIAL
	CF RECESSED DOWNLIGHT - ROUND OR SQUARE
	DECORATIVE PENDANT
	ORNAMENTAL PENDANT
	RECESSED WALL FIXTURE
	GYP BD BULKHEAD, UNO
	2'x2' SUSPENDED ACOUSTICAL PANEL CEILING
	2'x4' SUSPENDED ACOUSTICAL PANEL CEILING
	30'x54' W/ 6' UTILITY CHANNEL SUSPENDED ACOUSTICAL PANEL CEILING
	NEW TEXTURED ACOUSTIC PLASTER CLG TO MATCH ORIGINAL PLASTER CLG
	NEW SMOOTH PLASTER CLG TO MATCH ORIGINAL PLASTER CLG
	EXIST LOW BEAM ABOVE CLG PLANE, LOW CLEARANCE V/L

- GENERAL SHEET NOTES:**
- ALL CLINGS TO BE COORD WITH MEP/FP, AUDIO VISUAL & SECURITY SYSTEMS PRIOR TO INSTALLATION
- SHEET NOTES:**
- ALL CEILINGS ARE NEW CONSTRUCTION. EXISTING CEILINGS REMOVED DURING DEMOLITION PHASE.
  - ALL CEILINGS ARE PT GYP BD UNO.
  - CEILING NOTES AT 2ND FLOOR CORE AND CORRIDOR (BETWEEN COLUMN LINES 3 AND 10) TYPICAL FOR ALL OFFICE FLOORS (2-8), UNO.
  - "LOWER CLG" REFERS TO: 8'-5" CEILING @ FLRS 2-6
  - "UPPER CLG" REFERS TO: 9'-4" CEILING @ FLRS 2-5
  - "9'-1" CEILING @ FLRS 6-8
  - MOTORIZED WINDOW SHADE
  - MANUAL WINDOW SHADE

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  - EXISTING BRICK
  - EXISTING GRANITE
  - EXISTING LIMESTONE
  - EXISTING MARBLE PANEL
  - EXISTING MARBLE BASE
  - MODULAR BRICK VENEER
  - CONCRETE MASONRY UNIT
  - CAST STONE CONCRETE
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  - METAL GRATING
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  - INTERIOR ARCHITECTURAL WOODWORK
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  - SPRAY APPLIED INSULATION
  - BLANKET INSULATION (ACOUSTIC OR THERMAL)
  - ROOF INSULATION
  - MEMBRANE ROOFING
  - CLAY TILE ROOF
  - GREENGLASS SYSTEM
  - ROOF DRAIN
  - NOT USED
  - SHEET METAL FLASHING/TRIM
  - APPLIED FIREPROOFING
  - JOINT SEALANT AND/OR BACKER ROD (AS SHOWN)
  - FOUNDATION WATERPROOFING & DRAINAGE BOARD
  - FLUID-APPLIED AIR & WATER BARRIER
  - FLEXIBLE MEMBRANE FLASHING OVER MTL DRIP EDGE
  - COMPRESSIVE FILLER
  - ZINC METAL CLADDING
  - HM DOOR AND/OR FRAME
  - FLUSH HD DOOR IN HM FRAME
  - EXISTING METAL DOOR AND FRAME
  - ACCESS DOOR AND FRAME
  - ALUM AND GLASS STOREFRONT
  - GLAZING
  - ALL-GLASS STOREFRONT SYSTEM
  - REFURBISH AND REGLAZE EXIST BRONZE WINDOWS
  - ARCHITECTURAL LOUVER
  - INTERIOR STEEL WINDOW FRAME GLAZED W/ GL-3
  - GYP/SM BOARD CEILING
  - EXIST TERRAZZO FLOORING
  - GYP, BD, AND/OR NON-STRUCT METAL FRAMING
  - ACOUSTICAL PANEL CEILING
  - RESILIENT TILE FLOORING
  - CARPET
  - RESILIENT WALL BASE
  - TERRAZZO FLOORING
  - TILE
  - NOT USED
  - PREFINISHED WOOD PANEL SYSTEM
  - GYP/SM VENEER PLASTER
  - TOILET PARTITIONS
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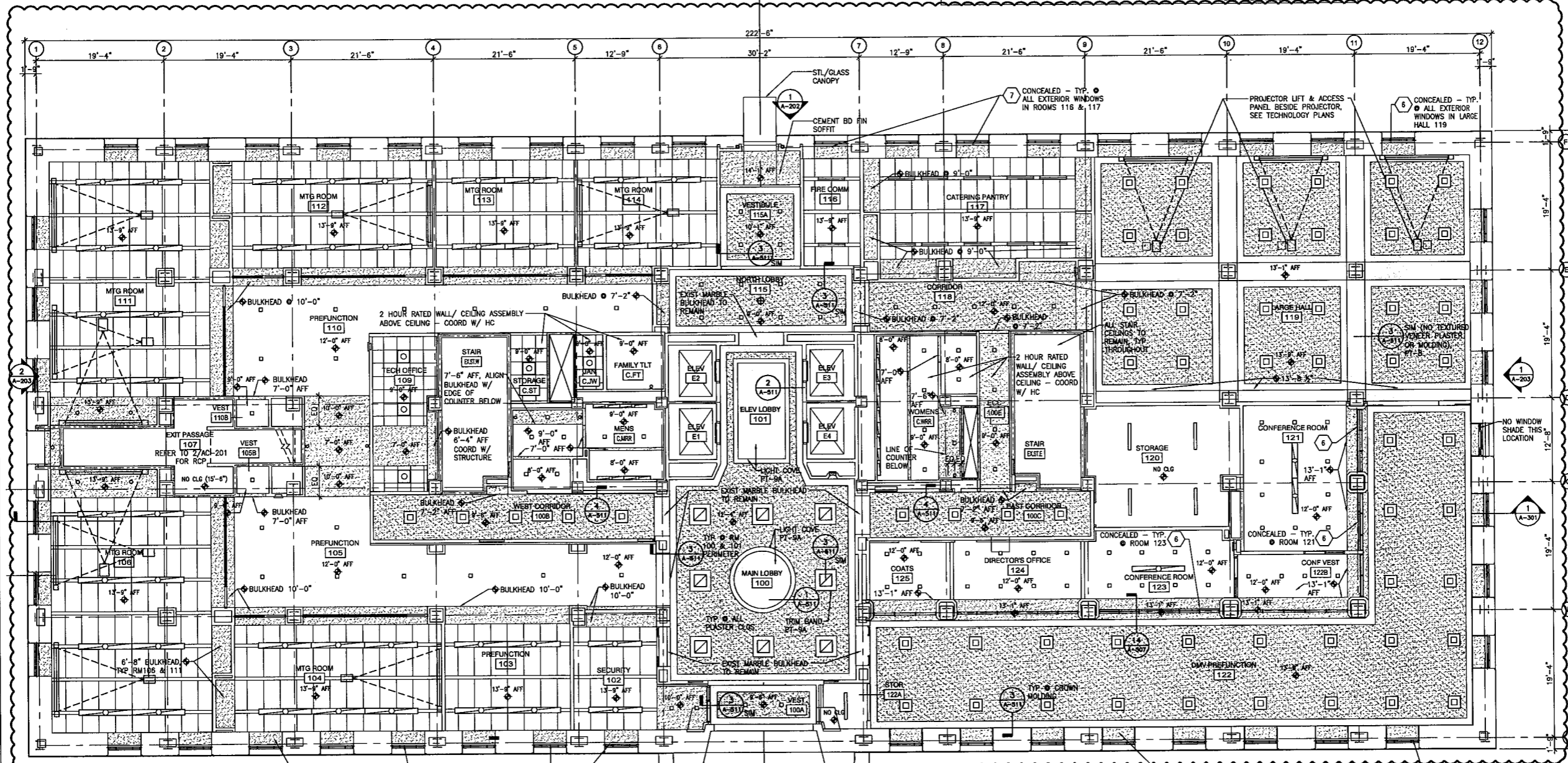
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1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

REFLECTED CEILING PLAN - FIRST FLOOR

**AC-101**



INTERIOR WINDOW SOFFIT 13'-1", TYP @ FIRST FLR

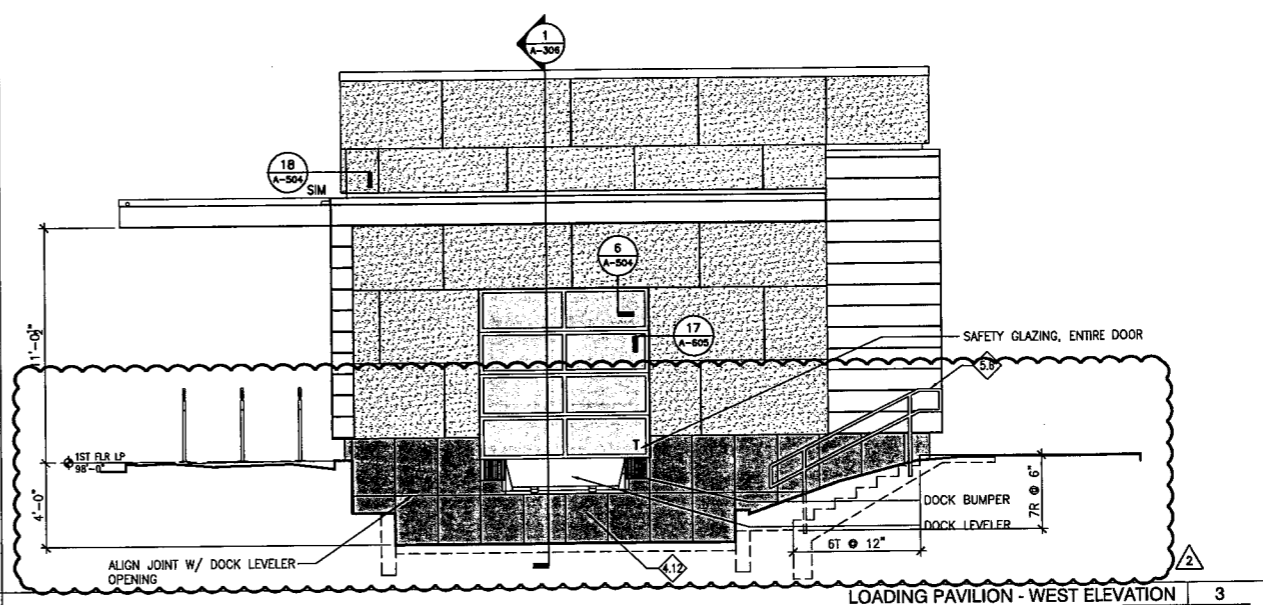
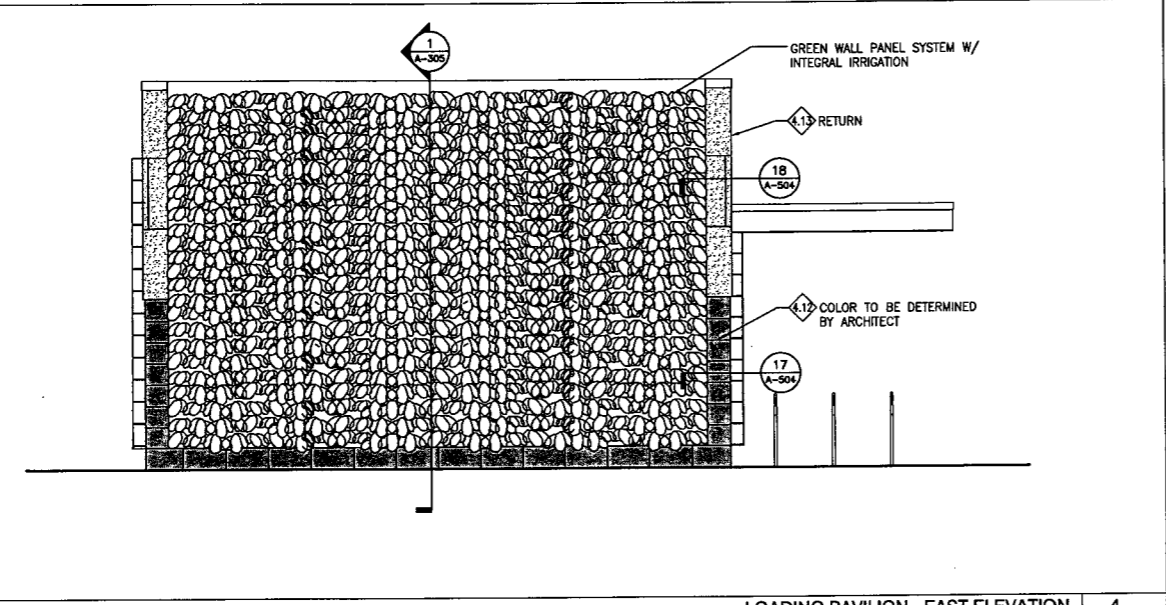
CONCEALED - TYP. @ ALL EXTERIOR WINDOWS IN MTG ROOMS 104, 105, 111, 112, 113 & 114

CONCEALED - TYP. @ ALL EXTERIOR WINDOWS IN ROOMS 102 & 103

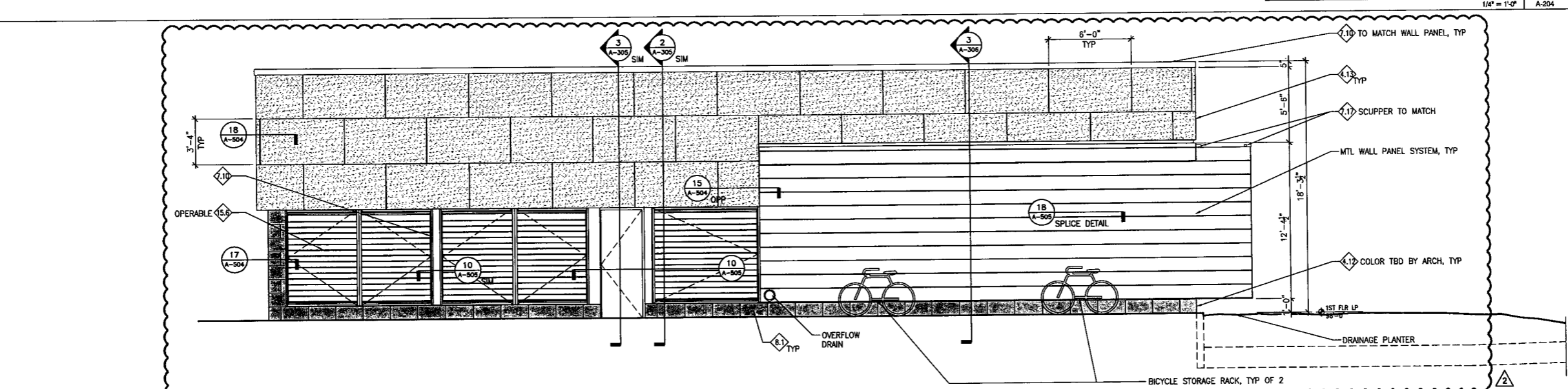
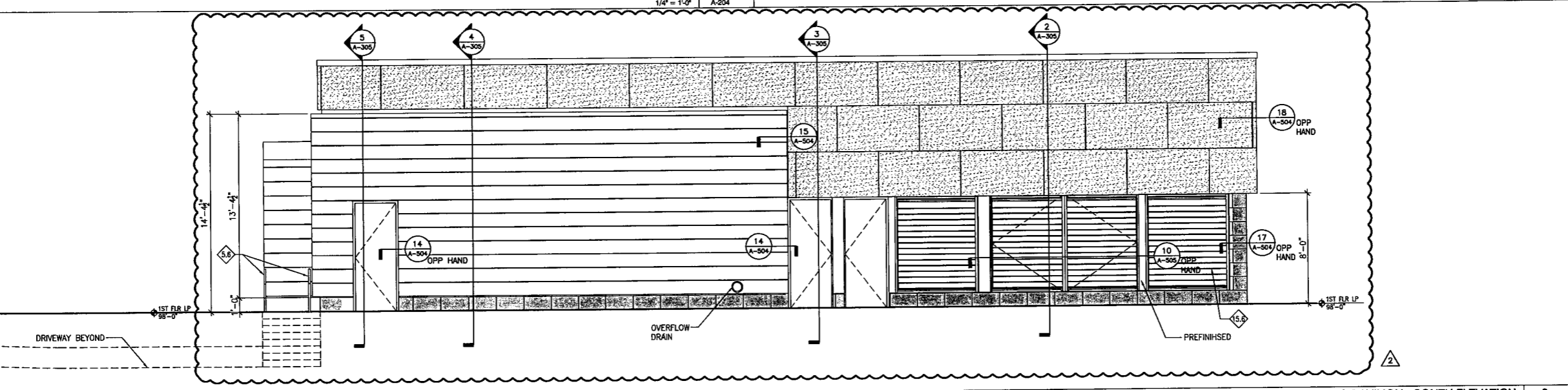
EXIST CANOPY ABOVE. REFER TO 1/AC-102

13'-1" WINDOW SOFFIT WITH RADIANT CLING PANEL & CONCEALED WINDOW TREATMENT, TYP 1ST FLOOR ONLY. SEE DETAIL 1/A-501.

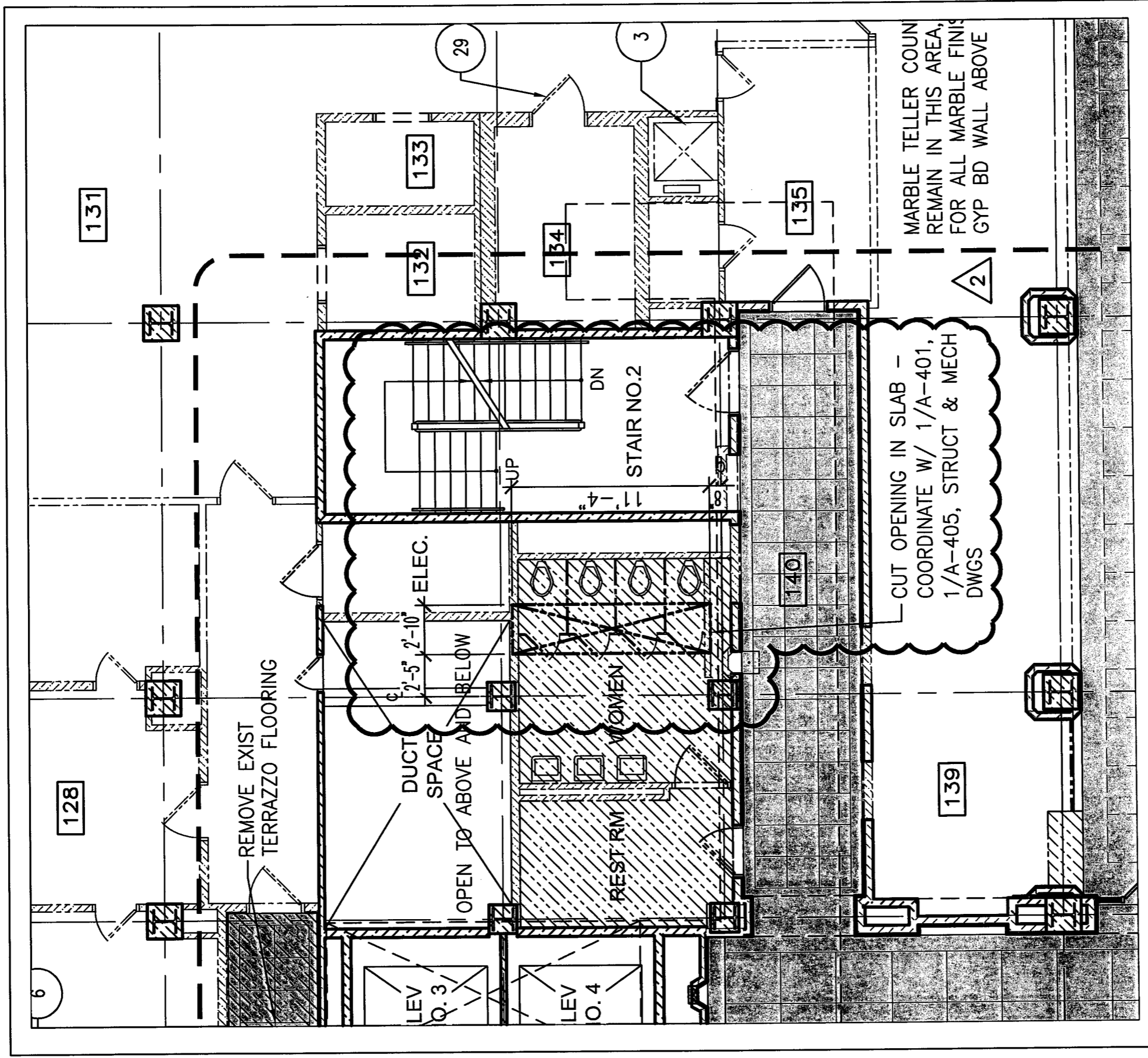
CONCEALED - TYP. @ ALL EXTERIOR WINDOWS IN DMV PREFUNCTION 122



- KEY NOTES
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  - 3.2 CONCRETE ON METAL DECK
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  - 4.4 EXISTING VIRGINIA GREENSTONE
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  - 4.7 MODULAR BRICK VENEER
  - 4.8 CONCRETE MASONRY UNIT
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  - 4.10 SALVAGED MARBLE PANEL
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  - 7.5 MEMBRANE ROOFING
  - 7.6 CLAY TILE ROOF
  - 7.7 GREENROOF SYSTEM
  - 7.8 ROOF DRAIN
  - 7.9 --- NOT USED ---
  - 7.10 SHEET METAL FLASHING/TRIM
  - 7.11 APPLIED FIREPROOFING
  - 7.12 JOINT SEALANT AND/OR BACKER ROD (AS SHOWN)
  - 7.13 FOUNDATION WATERPROOFING & DRAINAGE BOARD
  - 7.14 FLUID-APPLIED AIR & WATER BARRIER
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  - 8.9 ARCHITECTURAL LOWER
  - 8.10 INTERIOR STEEL WINDOW FRAME GLAZED W/ GL-3
  - 9.1 GYPSUM BOARD CEILING
  - 9.2 EXIST TERRAZZO FLOORING
  - 9.3 OPP. ED. AND/OR NON-STRUCT METAL FRAMING
  - 9.4 ACOUSTICAL PANEL CEILING
  - 9.5 RESILIENT TILE FLOORING
  - 9.6 CARPET
  - 9.7 RESILIENT WALL BASE
  - 9.8 TERRAZZO FLOORING
  - 9.9 TILE
  - 9.10 --- NOT USED ---
  - 9.11 PREFINISHED WOOD PANEL SYSTEM
  - 9.12 GYPSUM VENEER PLASTER
  - 10.1 TOILET PARTITIONS
  - 10.2 DEMOUNTABLE PARTITIONS
  - 10.3 FIRE EXTINGUISHER CABINET
  - 10.4 METAL LOCKERS
  - 10.5 BRACKET MOUNTED FIRE EXTINGUISHER
  - 12.1 MANUFACTURED CASEWORK
  - 12.2 RECESSED FLOOR MAT
  - 12.3 ROLLER WINDOW SHADE
  - 12.4 SOLID SURFACE COUNTERTOP
  - 15.1 WATER COOLER
  - 15.2 BLOWER COIL UNIT
  - 15.3 RADIANT CEILING PANEL
  - 15.4 SIDEWALL DIFFUSER GRILLE
  - 15.5 SPRINKLER HEAD
  - 15.6 WOOD LOUVER
  - 15.7 HVAC DUCT
  - 16.1 LIGHT FIXTURE



- 10.1 TOILET PARTITIONS
- 10.2 DEMOUNTABLE PARTITIONS
- 10.3 FIRE EXTINGUISHER CABINET
- 10.4 METAL LOCKERS
- 10.5 BRACKET MOUNTED FIRE EXTINGUISHER
- 12.1 MANUFACTURED CASEWORK
- 12.2 RECESSED FLOOR MAT
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- 15.2 BLOWER COIL UNIT
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- 15.4 SIDEWALL DIFFUSER GRILLE
- 15.5 SPRINKLER HEAD
- 15.6 WOOD LOUVER
- 15.7 HVAC DUCT
- 16.1 LIGHT FIXTURE

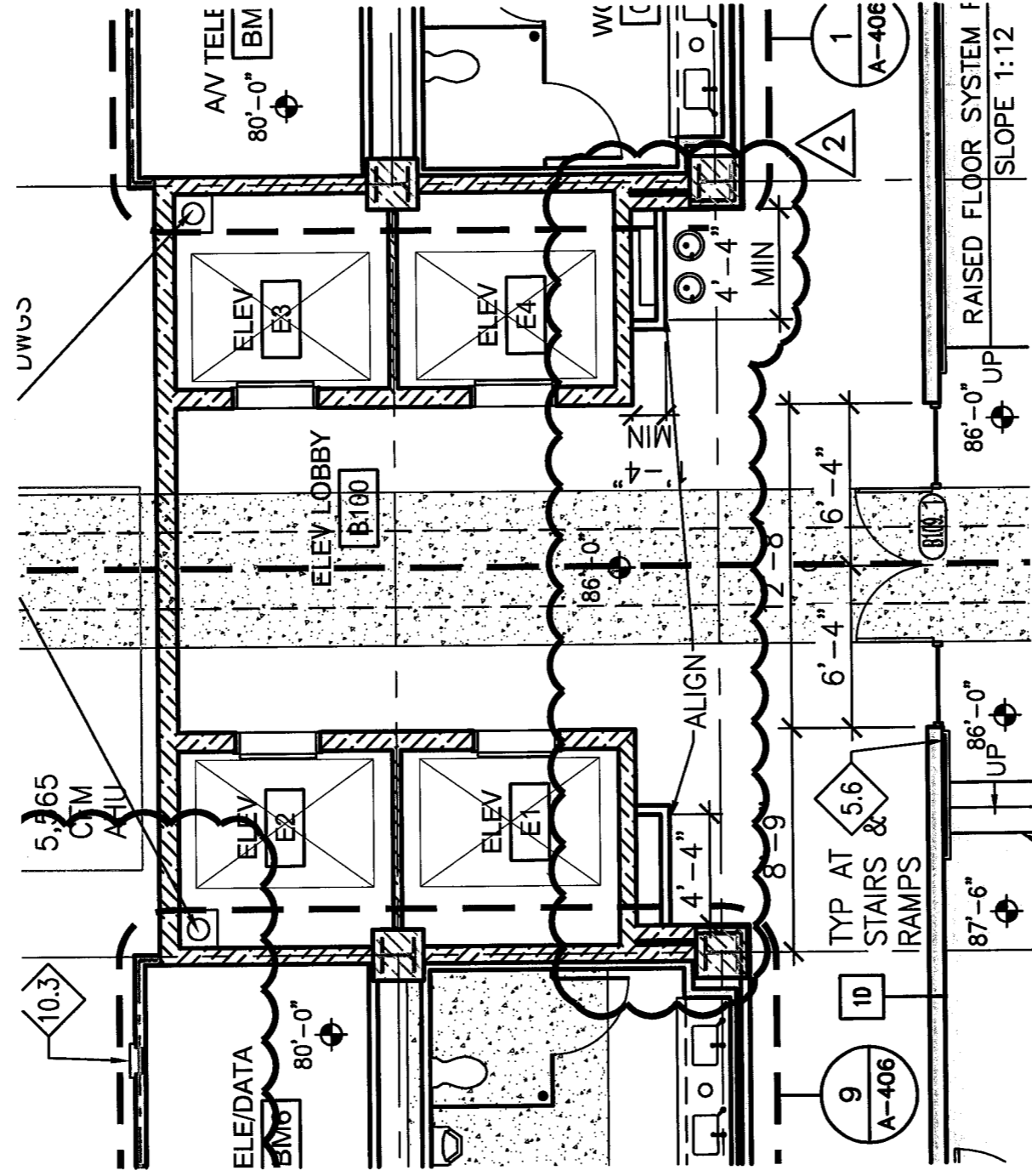


**DUCT SHAFT OPENING AT 1ST FLOOR 1**

1/8" = 1'-0" SK-01

<p><b>PERFIDO WEISKOPF WAGSTAFF GOETTEL</b></p>	<p>408 BOULEVARD OF THE ALLIES PITTSBURGH, PA 15219-1301 412.391.2884 PH 412.391.1657 FX WWW.PWVGARCH.COM</p>	<p>WEST VIRGINIA STATE OFFICE BUILDING NO. 3 RENOVATIONS 1900 KANAWHA BOULEVARD EAST BUILDING NO. 3, CAPITOL COMPLEX CHARLESTON, WEST VIRGINIA 25305 PWVG PROJECT NO. 20703.00 ADDENDUM NO. 2</p>	<p>FIRST FLOOR DEMOLITION PLAN ARCHITECTURAL REFERENCE: 1/AD-101</p> <p><b>SK-01</b></p> <p>12/8/2010</p>
-------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

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**FRAMING AT ELEV LOBBY B100** **1**

1/8" = 1'-0" SK-02

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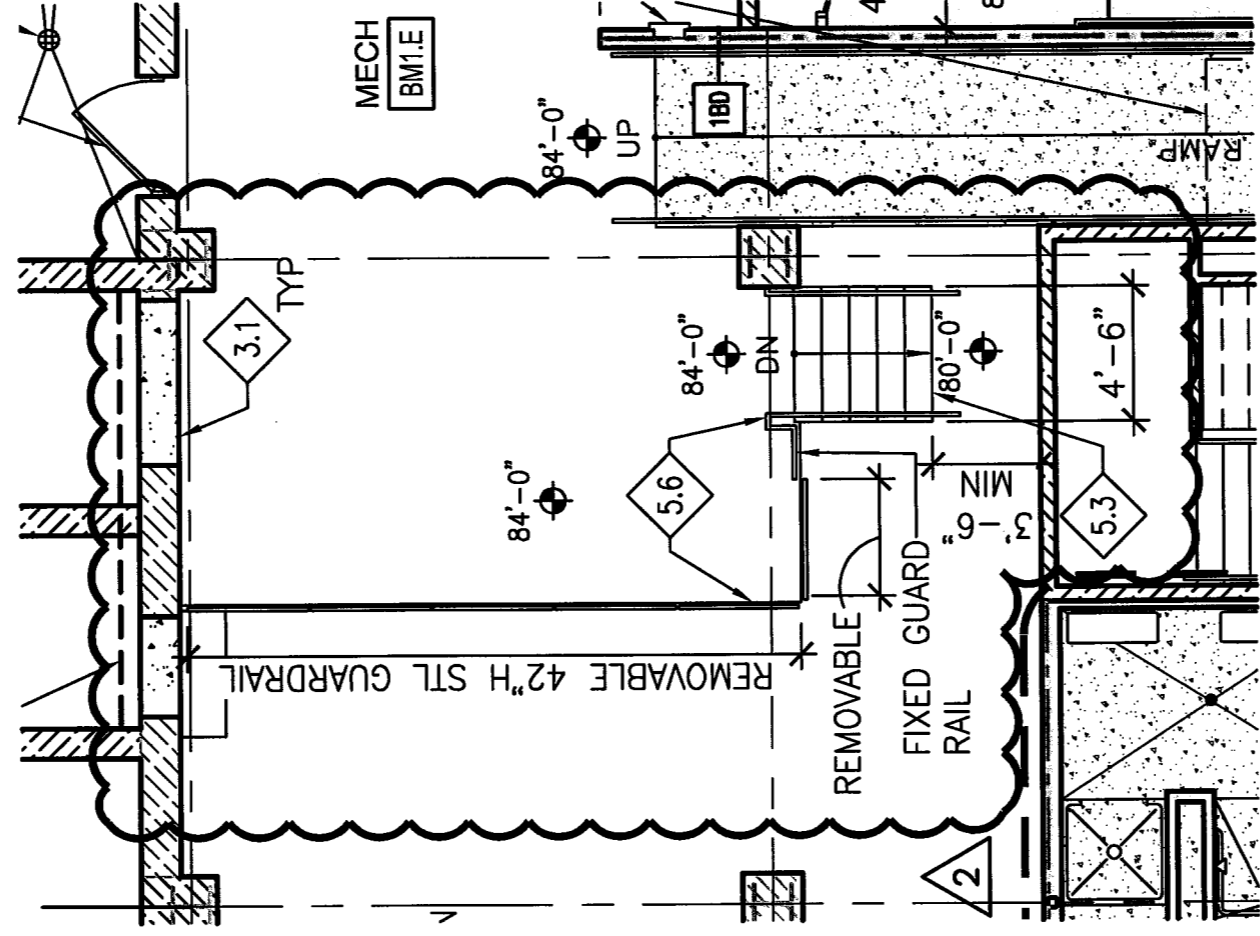
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**BASEMENT FLOOR PLAN**  
**ARCHITECTURAL**  
**REFERENCE: 1/A-100**

**SK-02**



**STAIRS, RAILING, & GUARD RAIL @ MECH BM1.E 1**

1/8" = 1'-0" SK-03

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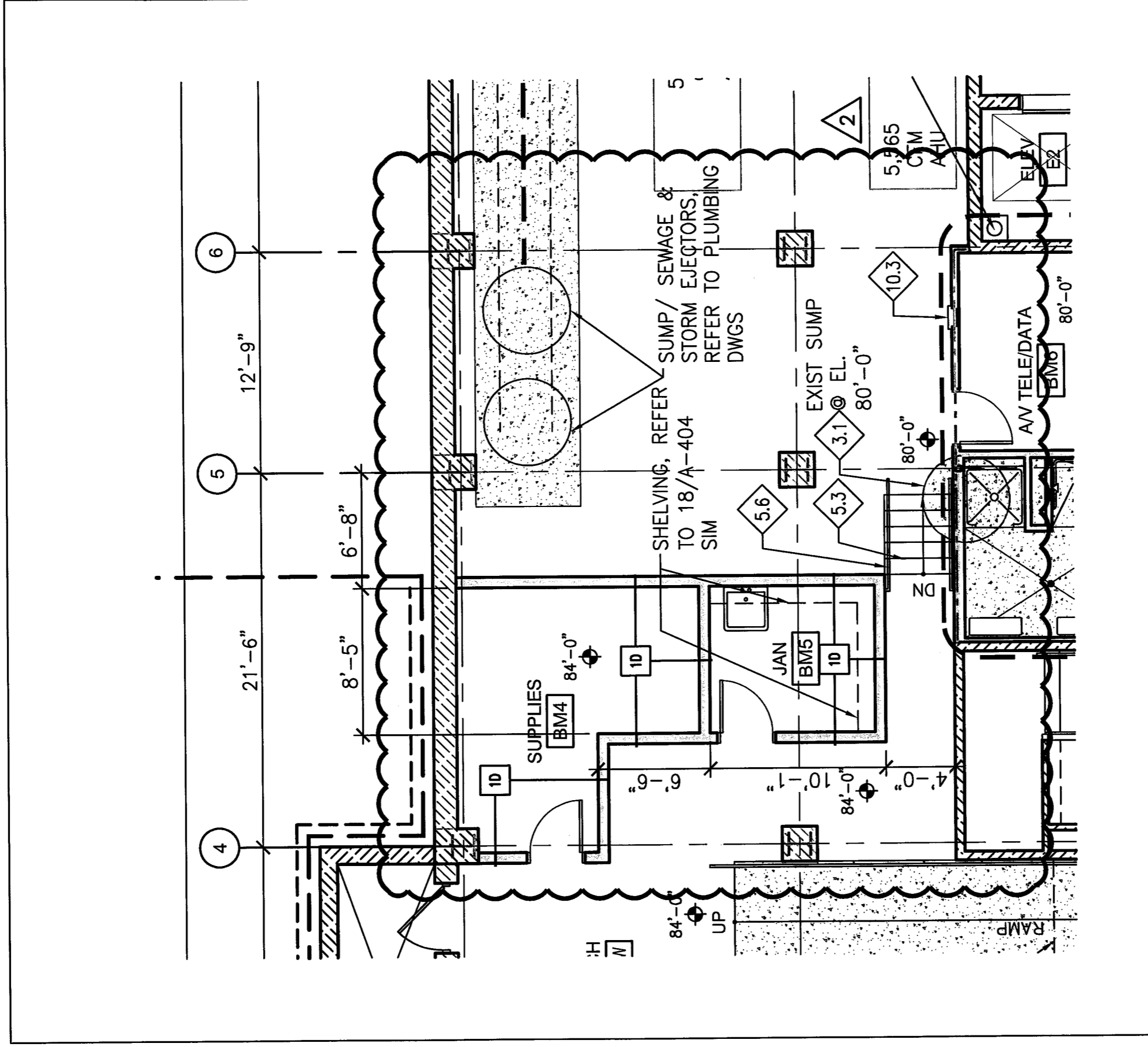
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**BASEMENT FLOOR PLAN**  
**ARCHITECTURAL**  
**REFERENCE: 1/A-100**





**MECH RM BM1 & JAN BM5 1**

1/8" = 1'-0" SK-04

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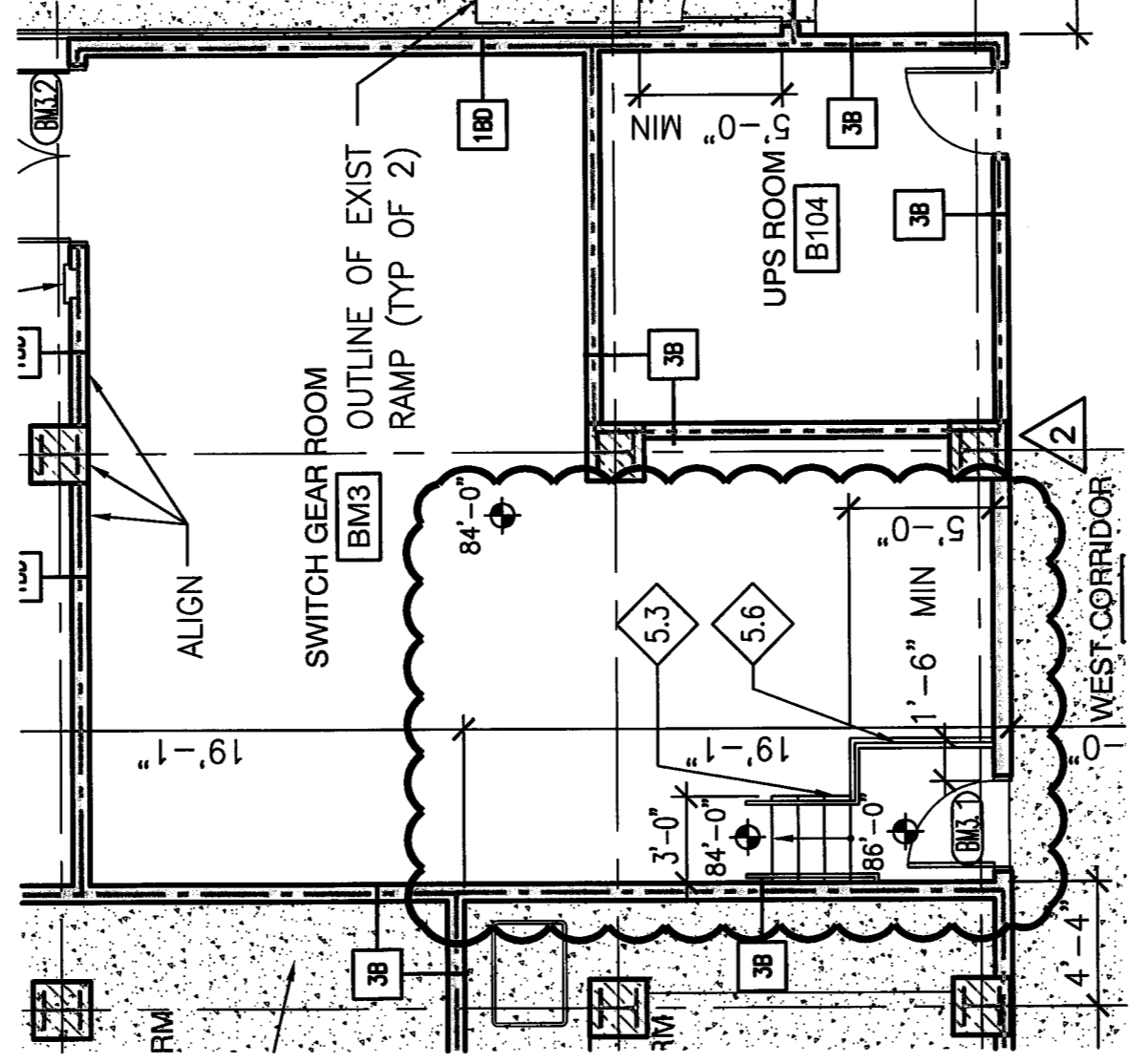
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**ARCHITECTURAL**  
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**UPS ROOM B104 STAIR & HANDRAIL 1**

1/8" = 1'-0" SK-05

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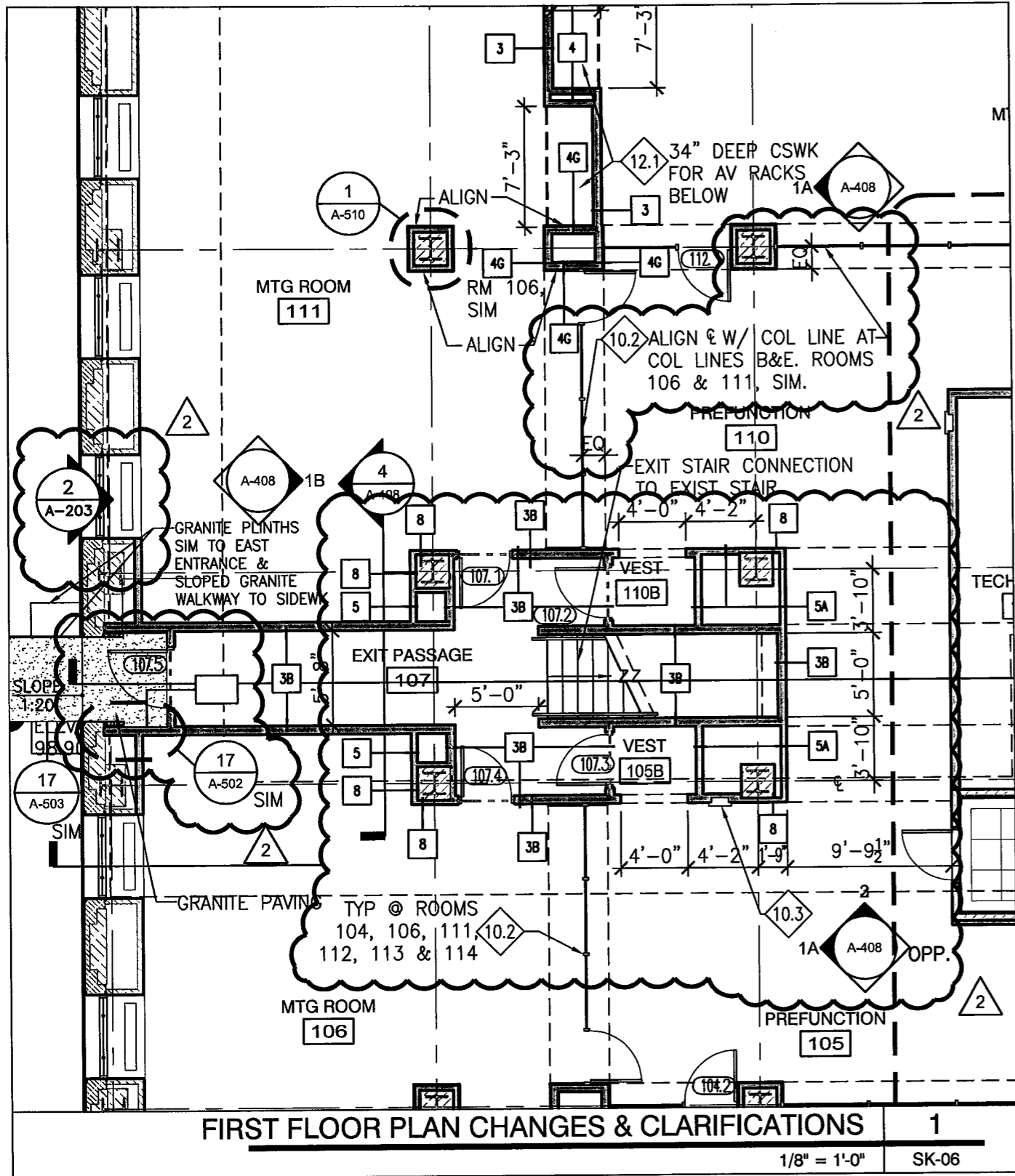
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**ARCHITECTURAL**  
**REFERENCE: 1/A-100**

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**FIRST FLOOR PLAN CHANGES & CLARIFICATIONS** 1  
 1/8" = 1'-0" SK-06

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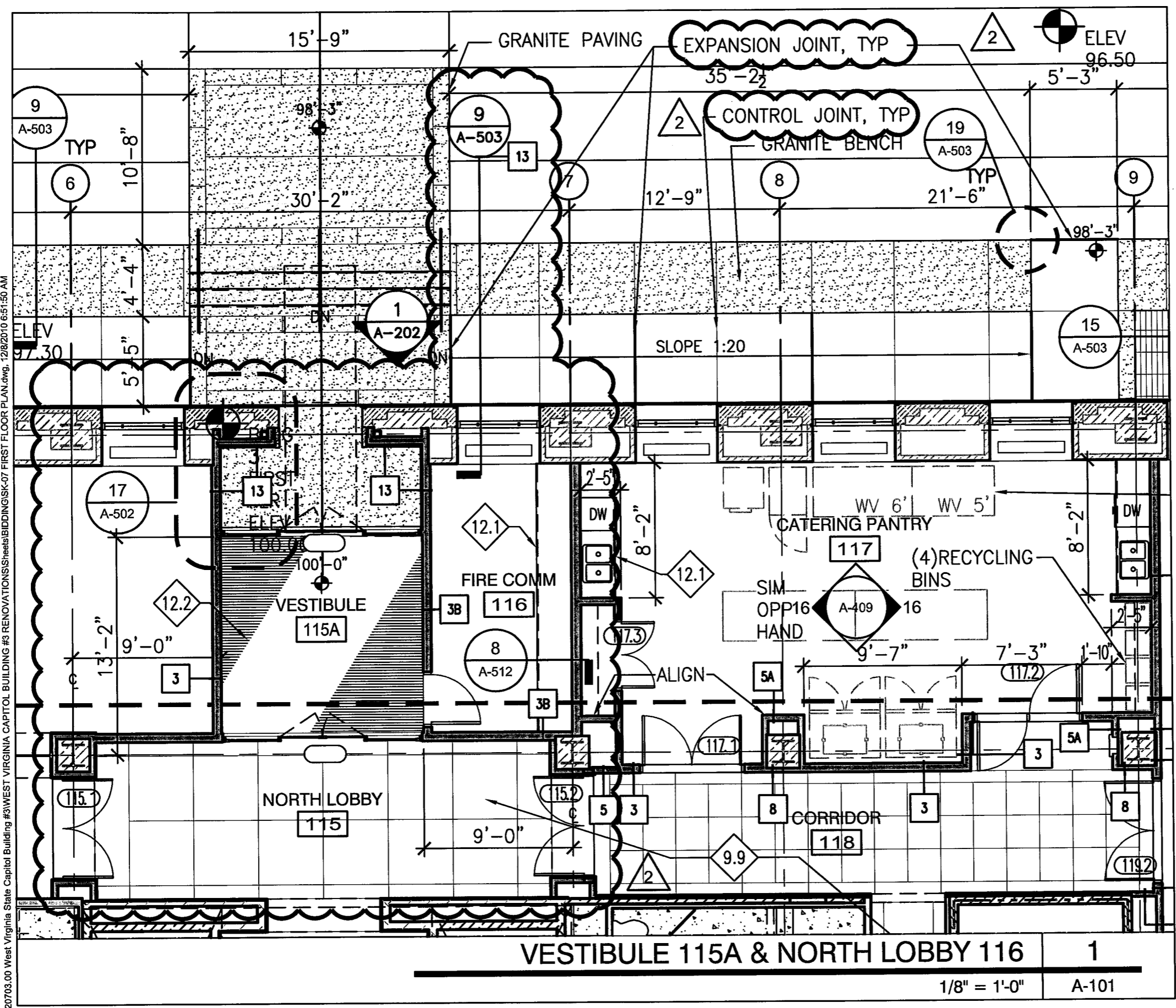
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 REFERENCE: 1/A-101

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**SK-06**

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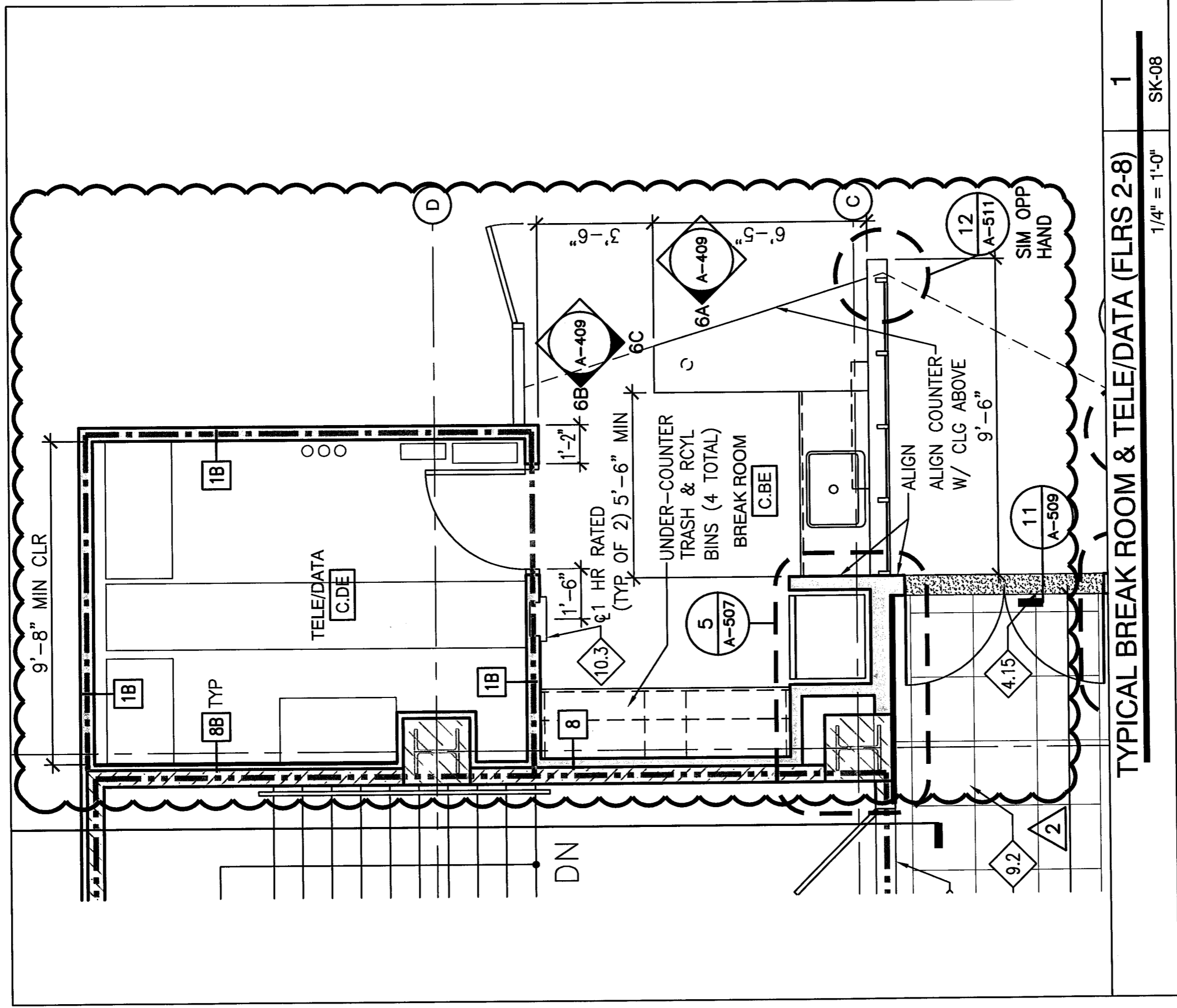
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FIRST FLOOR PLAN

**SK-07**

REFERENCE: 1/A-101

VESTIBULE 115A & NORTH LOBBY 116 1  
1/8" = 1'-0" A-101



**TYPICAL BREAK ROOM & TELE/DATA (FLRS 2-8) 1**

1/4" = 1'-0" SK-08

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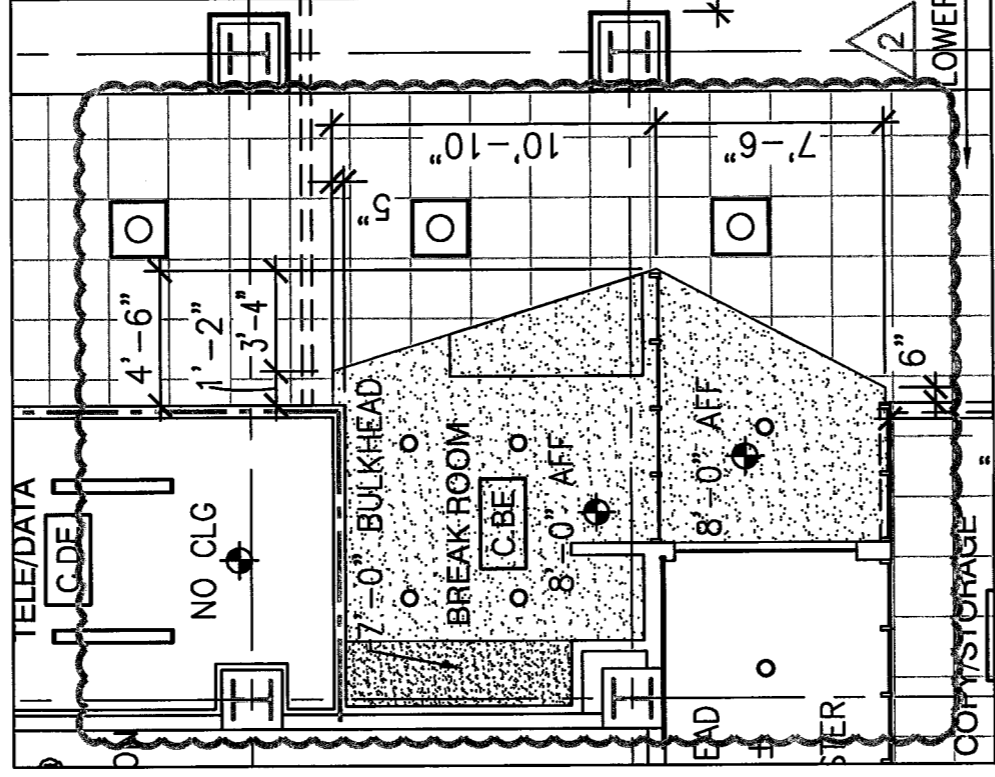
**TYPICAL CORRIDOR**  
**ENLARGED PLAN**  
**ARCHITECTURAL**  
 REFERENCE: 1/A-403

**SK-08**

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**REFLECTED CEILING PLAN AT BREAK ROOMS 1**

1/8" = 1'-0" SK-09

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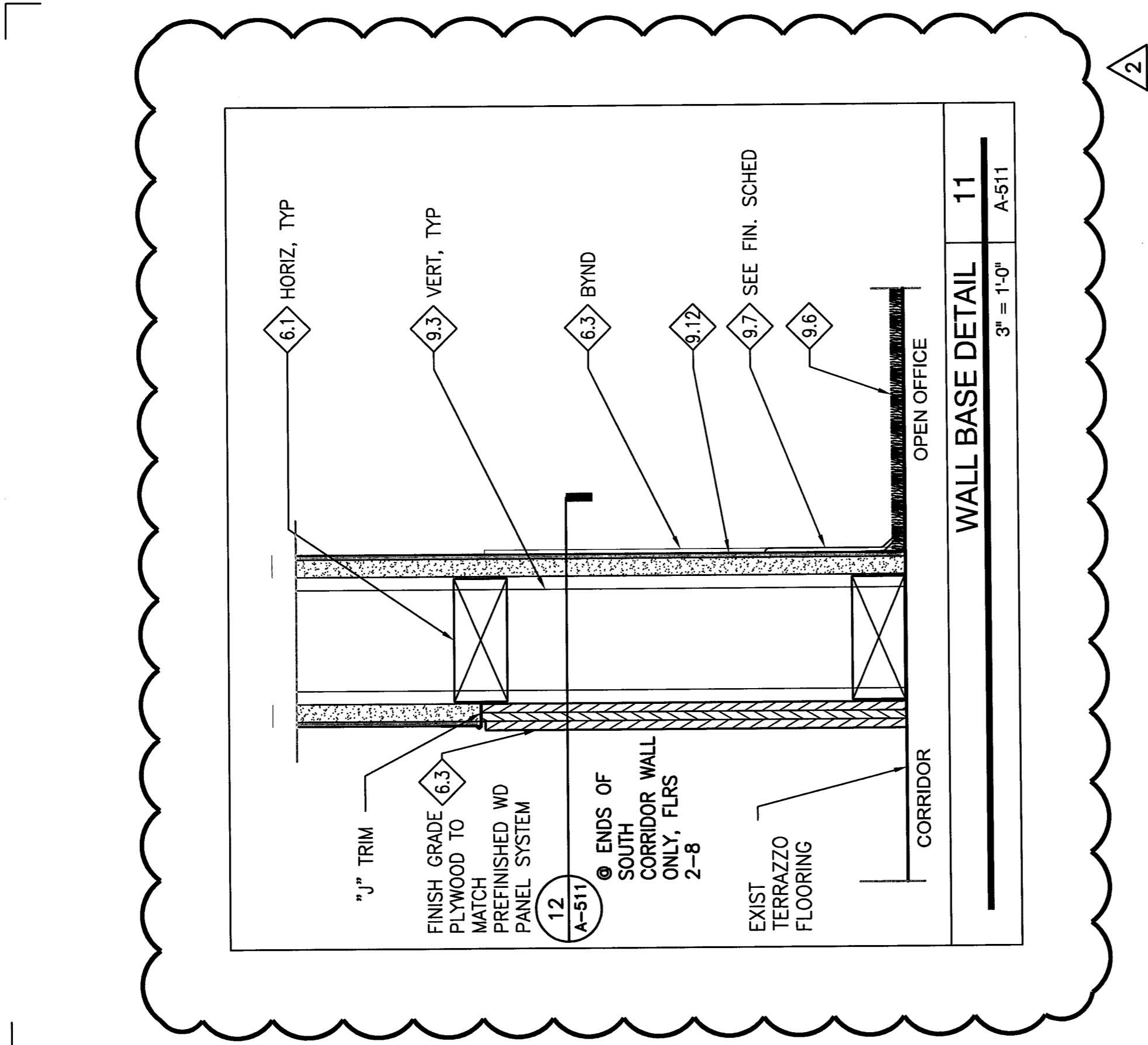
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**SK-09**

SECOND FLOOR REFLECTED  
CEILING PLAN  
ARCHITECTURAL  
REFERENCE: 1/AC-102



2

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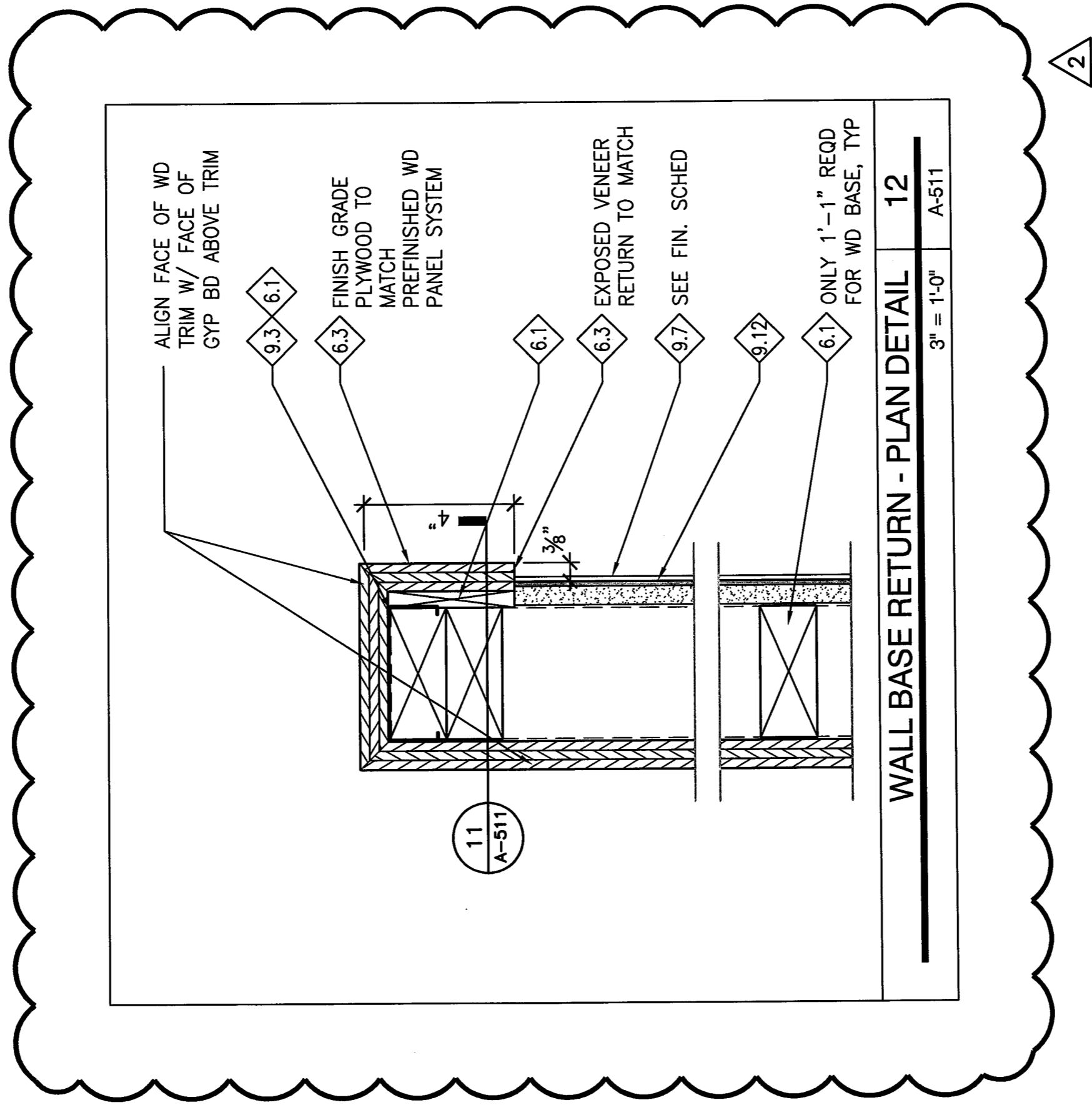
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**SK-10**



2

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ADDENDUM NO. 2**

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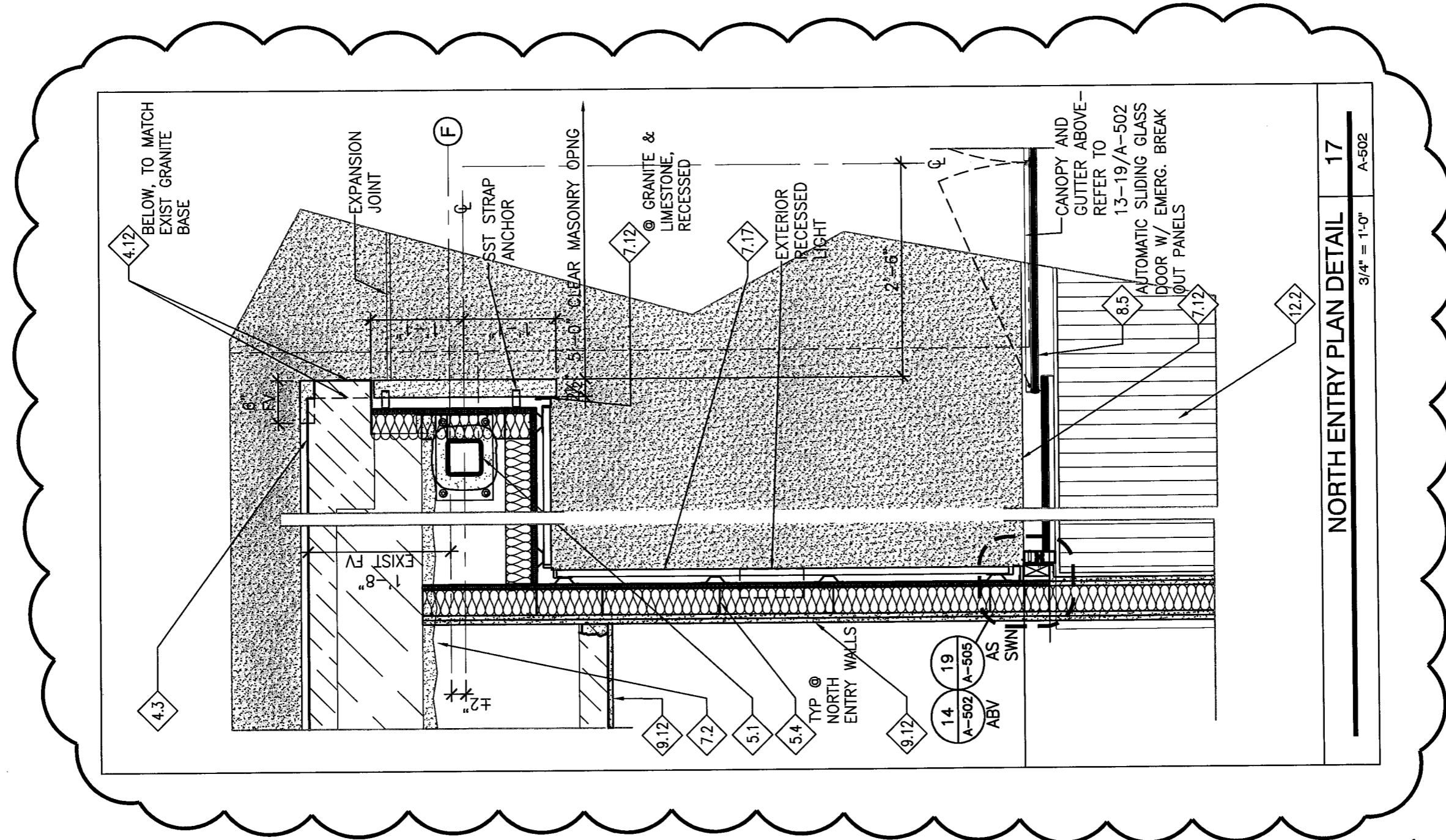
**SK-11**

**INTERIOR DETAILS  
ARCHITECTURAL  
REFERENCE: 12/A-511**

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**NORTH ENTRY PLAN DETAIL 17**

3/4" = 1'-0" A-502



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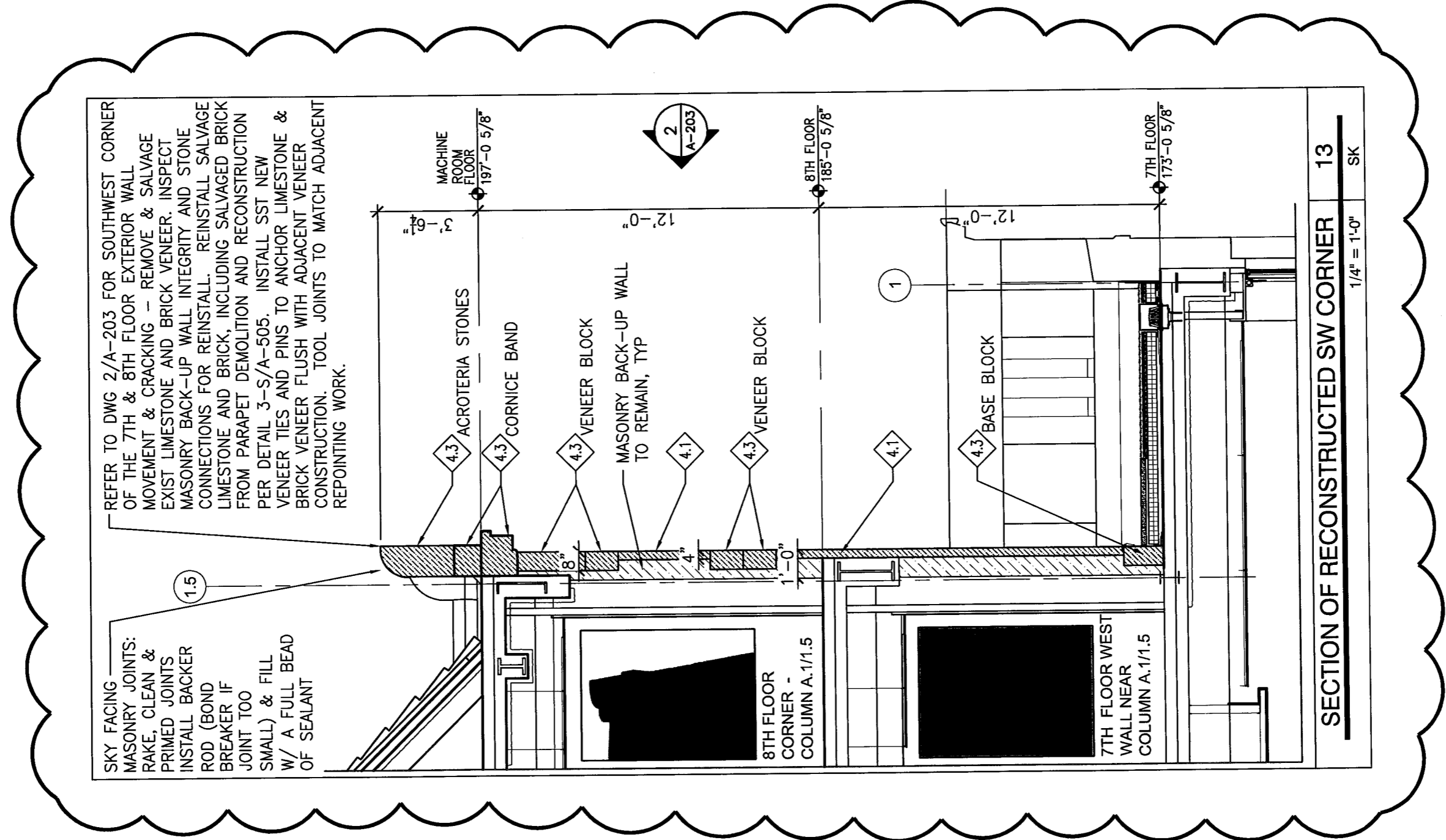
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**EXTERIOR DETAILS**

ARCHITECTURAL  
REFERENCE: 17/A-502

**SK-12**





REFER TO DWG 2/A-203 FOR SOUTHWEST CORNER OF THE 7TH & 8TH FLOOR EXTERIOR WALL MOVEMENT & CRACKING -- REMOVE & SALVAGE EXIST LIMESTONE AND BRICK VENEER. INSPECT MASONRY BACK-UP WALL INTEGRITY AND STONE CONNECTIONS FOR REINSTALL. REINSTALL SALVAGED LIMESTONE AND BRICK, INCLUDING SALVAGED BRICK FROM PARAPET DEMOLITION AND RECONSTRUCTION PER DETAIL 3-S/A-505. INSTALL SST NEW VENEER TIES AND PINS TO ANCHOR LIMESTONE & BRICK VENEER FLUSH WITH ADJACENT VENEER CONSTRUCTION. TOOL JOINTS TO MATCH ADJACENT REPOINTING WORK.

SKY FACING MASONRY JOINTS: RAKE, CLEAN & PRIME JOINTS. INSTALL BACKER ROD (BOND BREAKER IF JOINT TOO SMALL) & FILL W/ A FULL BEAD OF SEALANT

SECTION OF RECONSTRUCTED SW CORNER 13  
1/4" = 1'-0"  
SK



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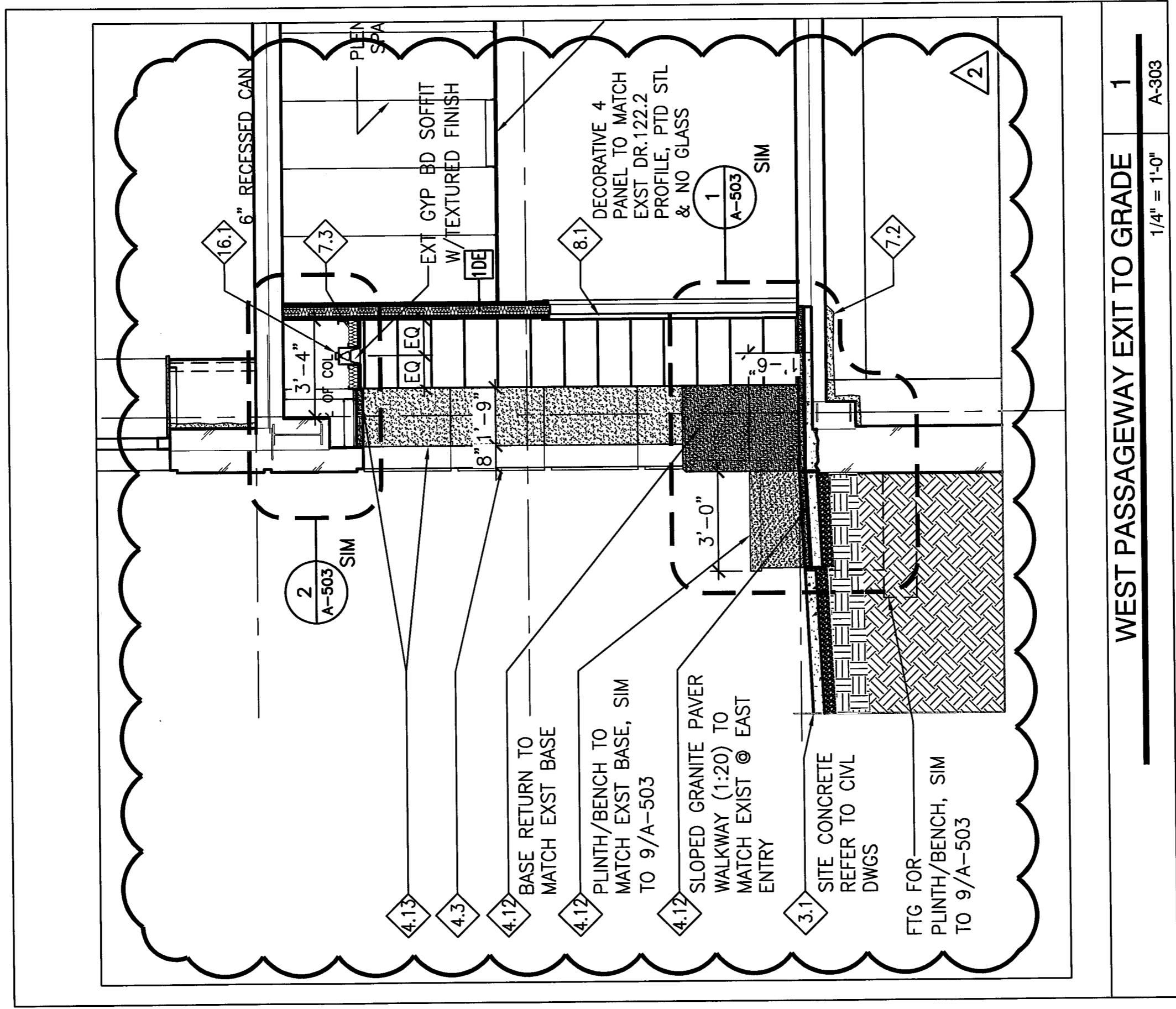
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EXTERIOR DETAIL

SK-13



WEST PASSAGEWAY EXIT TO GRADE 1

1/4" = 1'-0" A-303

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WEST VIRGINIA STATE OFFICE BUILDING SECTION

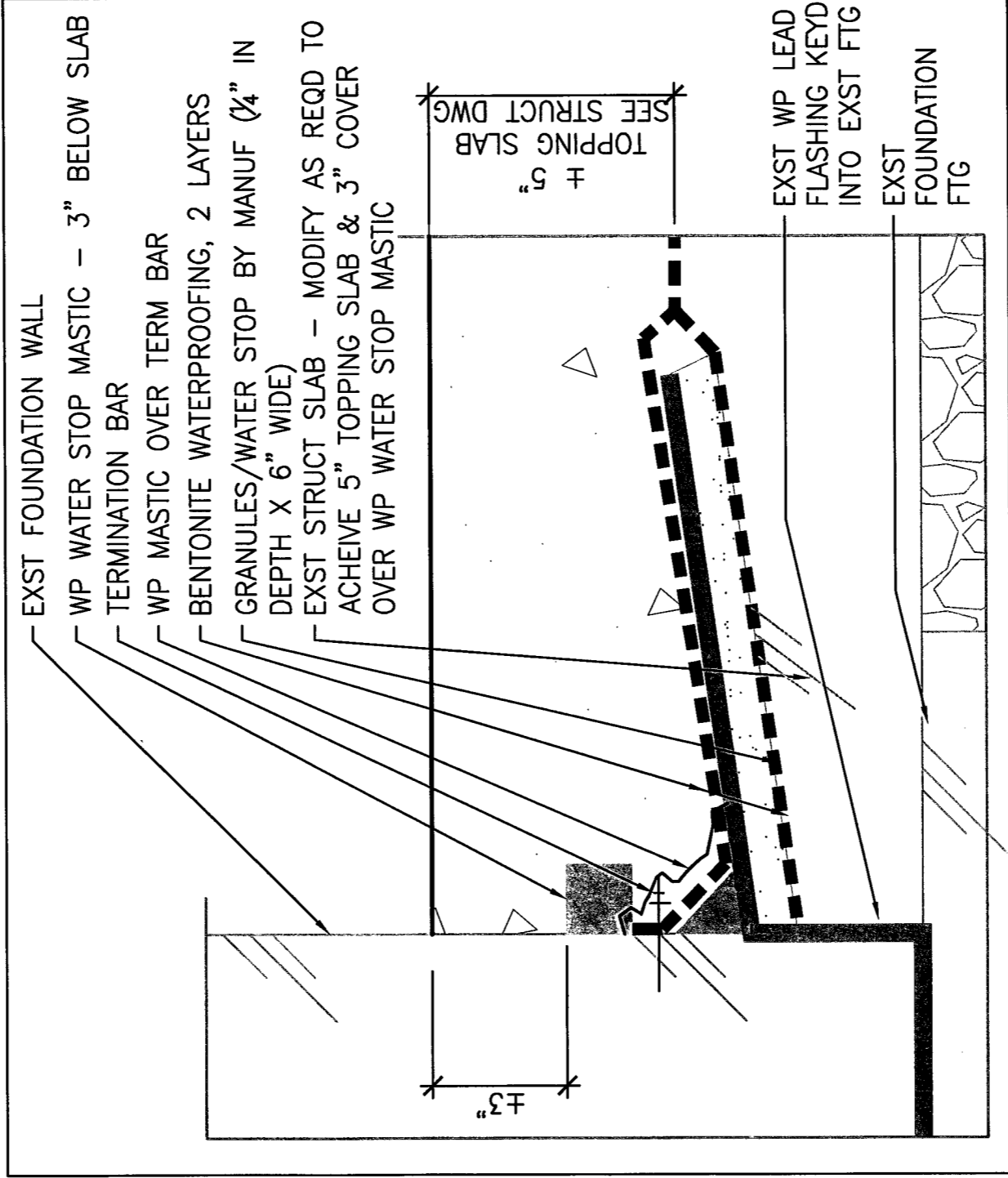
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ARCHITECTURAL  
 REFERENCE 1/A-303  
**SK-14**

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PERIMETER BASEMENT SLAB DETAIL 15

3" = 1'-0" SK

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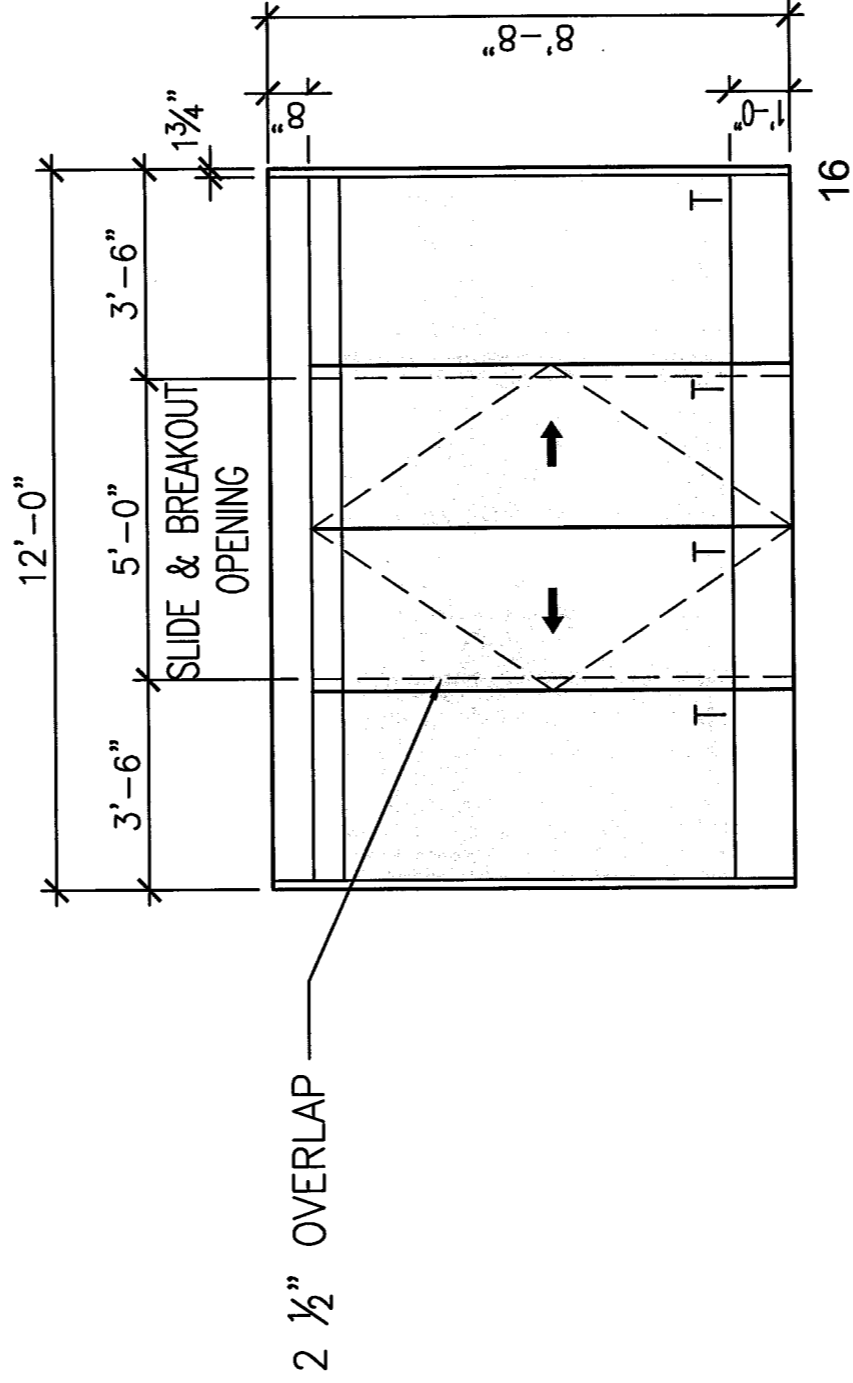
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DETAIL

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**SK-15**



**DOOR TYPES - TYPE 16**

**1**

1/4" = 1'-0" SK-16

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ARCHITECTURAL  
 REFERENCE: 1/A-603

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**SK-16**

L:\CAD\2010\03.00 West Virginia State Capitol Building #3\WEST VIRGINIA CAPITOL BUILDING #3 RENOVATIONS\Sheets\BIDDING\SK-17 LOADING PAVILION DOOR SCHEDULE.dwg, 12/14/2010 12:25:49 PM

LOADING PAVILION BASEMENT													
LPB1	LOADING	6'-0"	7'-0"	1 3/4"	HM	7A	HM	A	-	5	-	AC	-
LPB2.1	SWITCHGEAR	3'-0"	7'-0"	1 3/4"	HM	6	HM	A	-	20	-	AC	-
LPB2.2	SWITCHGEAR	5'-8"	7'-0"	1 3/4"	HM	7	HM	A	-	20	-	AC	-
LP.ST.1	EXIT STAIR	3'-0"	7'-0"	1 3/4"	HM	6	HM	A	1 1/2 HR	42	-	D	-
LOADING PAVILION FIRST FLOOR													
LP101.1	LOADING	8'-0"	8'-0"	1 3/4"	AL/GL	15	AL	-	-	-	17/A-605	-	-
LP101.2	LOADING	3'-0"	7'-10"	1 3/4"	HM	9	HM	A	1 1/2 HR	19	-	D	-
LP102	ELEVATOR MACHINE ROOM	3'-0"	7'-0"	1 3/4"	HM	6	HM	A	1 HR	34	-	AC	-
LP103.1	EMERGENCY GENERATOR	3'-0"	7'-10"	1 3/4"	HM	6	HM	A	-	06	-	AC	-
LP103.2	EMERGENCY GENERATOR	3'-0"	7'-10"	1 3/4"	HM	6	HM	A	-	06	-	AC	-
LP103.3	EMERGENCY GENERATOR	8'-1 1/2"	7'-0"	-	AL	-	-	-	-	-	-	AC	MECH LOUVER
LP104.1	TRANSFORMERS	10'-7 1/2"	7'-0"	-	AL	-	-	-	-	-	-	AC	MECH LOUVER
LP104.2	TRANSFORMERS	10'-7 1/2"	7'-0"	-	AL	-	-	-	-	-	-	AC	MECH LOUVER
LP104.3	----NOT USED----												
LP105	UTILITY/METER	10'-7 1/2"	7'-0"	-	AL	-	-	-	-	-	-	AC	MECH LOUVER
LP.ST.1	EXIT STAIR	3'-0"	7'-10"	1 3/4"	HM	9	HM	A	1 1/2 HR	42	-	E	B
LP.ST.1.2	----NOT USED----												

DOOR SCHEDULE

3

2

1 1/2" = 1'-0"

A-605

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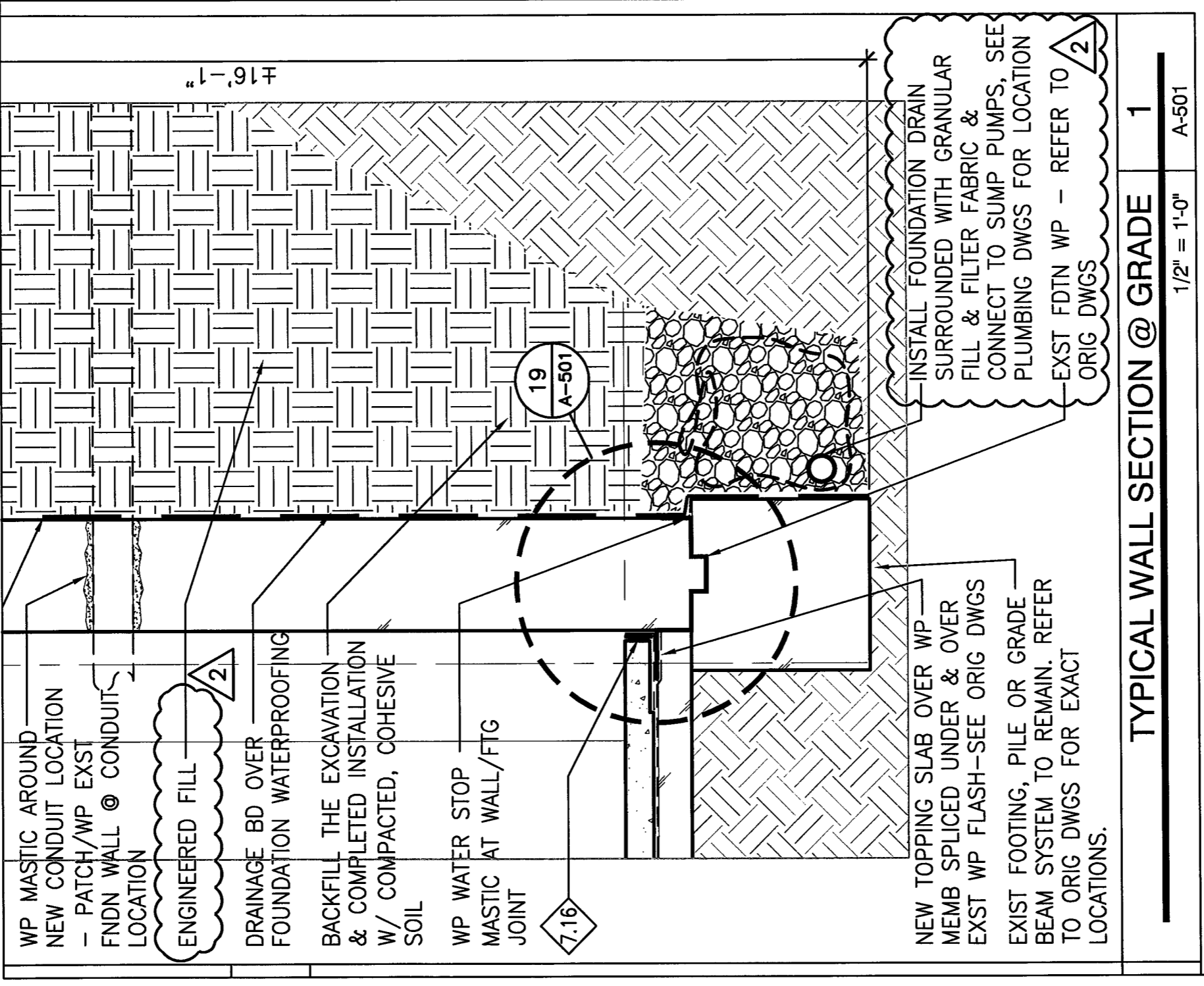
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LOADING PAVILION DOOR  
SCHEDULE  
ARCHITECTURAL  
REF: 3/A-605

SK-17



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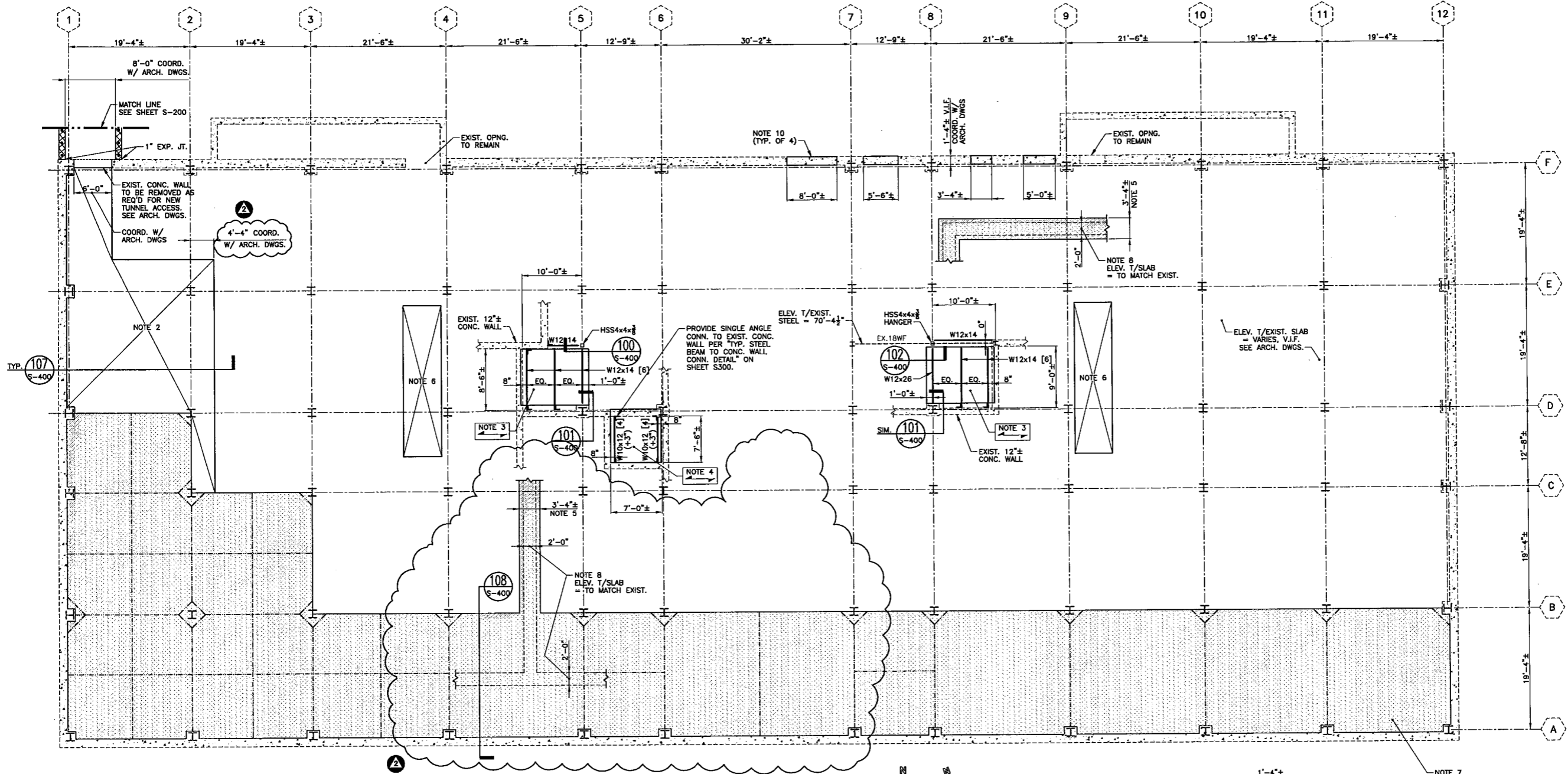
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PWWG PROJECT NO. 20703.00  
ADDENDUM NO. 2

EXTERIOR DETAILS  
ARCHITECTURAL  
REFERENCE: 1/A-501

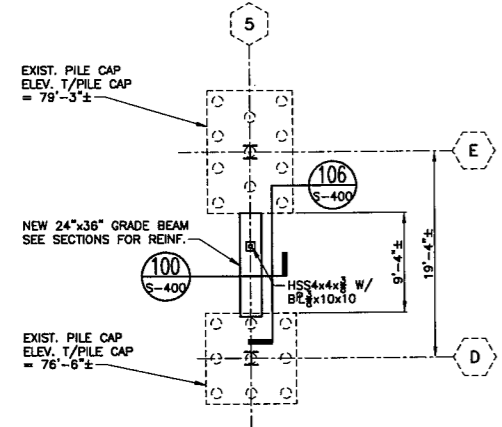
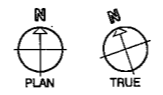
**SK-18**

12/8/2010

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

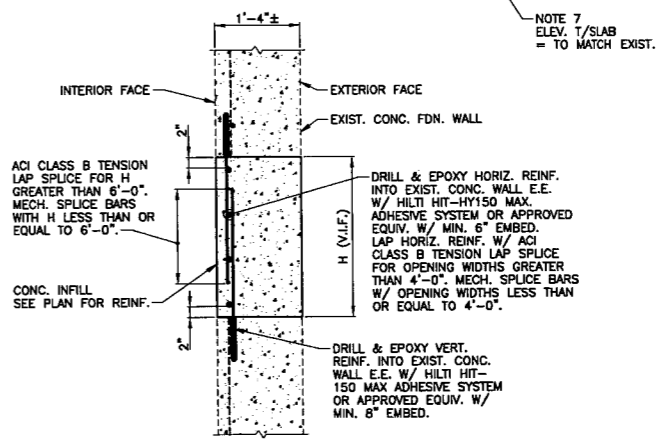


PARTIAL EXISTING AND NEW FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"

- NOTES:
- ELEV. T/GRADE BEAM = 79'-3" TO MATCH EXIST. T/PILE CAP (E-5) ELEV.

NOTES:

- ELEV. T/STEEL = 85'-4" TYP. UNLESS NOTED (±) FROM 85'-4".
- 2 1/2" CONC. REINF. W/ 6x6-W2.9xW2.9 W.W.F. OVER RIGID INSULATION - ELEV. T/CONC. = 86'-0".
- 8" NORMAL WEIGHT CONC. SLAB REINF. W/ #6 @ 12" O.C. EAST-WEST CENTERED IN SLAB & #6 @ 24" O.C. NORTH-SOUTH ABOVE EAST-WEST REINF. BARS. ELEV. T/SLAB = 86'-0". CONC. SLAB TO SLOPE @ LOCATION OF FLOOR DRAINS. COORD. & LOCATION OF FLOOR DRAINS W/ ARCH. DWGS.
- 3" NORMAL WEIGHT CONC. SLAB ON 2"-20 GA. COMP. STEEL DECK (TOTAL SLAB THICKNESS = 5") REINF. W/ 6x6-W1.4xW1.4 W.W.F. ELEV. T/SLAB = 86'-0".
- COORD. OVERALL EXTENTS OF CONC. TOPPING SLAB & SLAB ON GRADE TO BE REMOVED FOR THE INSTALLATION OF NEW BELOW FLOOR DRAINAGE W/ ARCH. & PLUMBING DWGS.
- 2 1/2" CONC. RAMP SLAB. REINF. W/ 6x6-W2.9xW2.9 W.W.F. OVER RIGID INSULATION - ELEV. VARIES. COORD. LOCATION & EXTENT W/ ARCH. DWGS.
- SHADED AREA INDICATES EXIST. CONC. TOPPING SLAB TO BE REMOVED. PROVIDE NEW 5"± N.W.T. CONC. TOPPING SLAB (TO MATCH EXIST.). REINF. W/ 6x6-W1.4xW1.4 W.W.F. COORD. LOCATION & EXTENTS OF SLAB REMOVAL & REPLACEMENT W/ ARCH. DWGS.
- APPROX. WIDTH OF EXIST. CONC. SLAB ON GRADE TO BE REMOVED FOR INSTALLATION OF NEW DRAINAGE PIPE PER NOTE 5 THIS SHEET. PROVIDE NEW 4" CONC. SLAB ON GRADE (TO MATCH EXIST.) REINF. W/ 6x6-W2.9xW2.9 W.W.F.
- SEE ARCH. DWGS. FOR EXIST. T/SLAB ELEVATIONS & EXTENTS.
- CONC. WALL INFILL PER TYP. EXIST. CONC. WALL OPENING INFILL DETAIL. REINF. W/ #7 @ 9" O.C. V.I.F. & #5 @ 9" O.C. H.I.F.



TYPICAL EXISTING CONCRETE WALL OPENING INFILL DETAIL

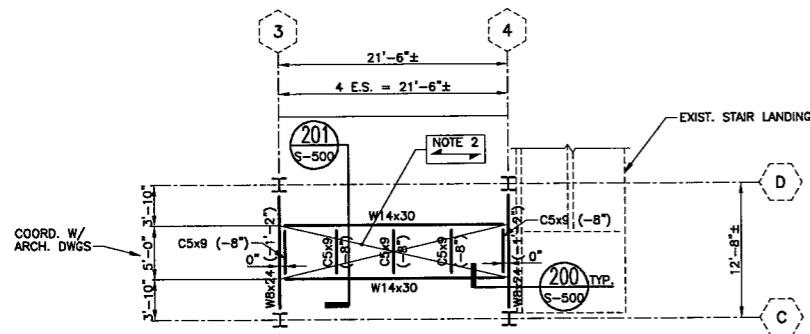
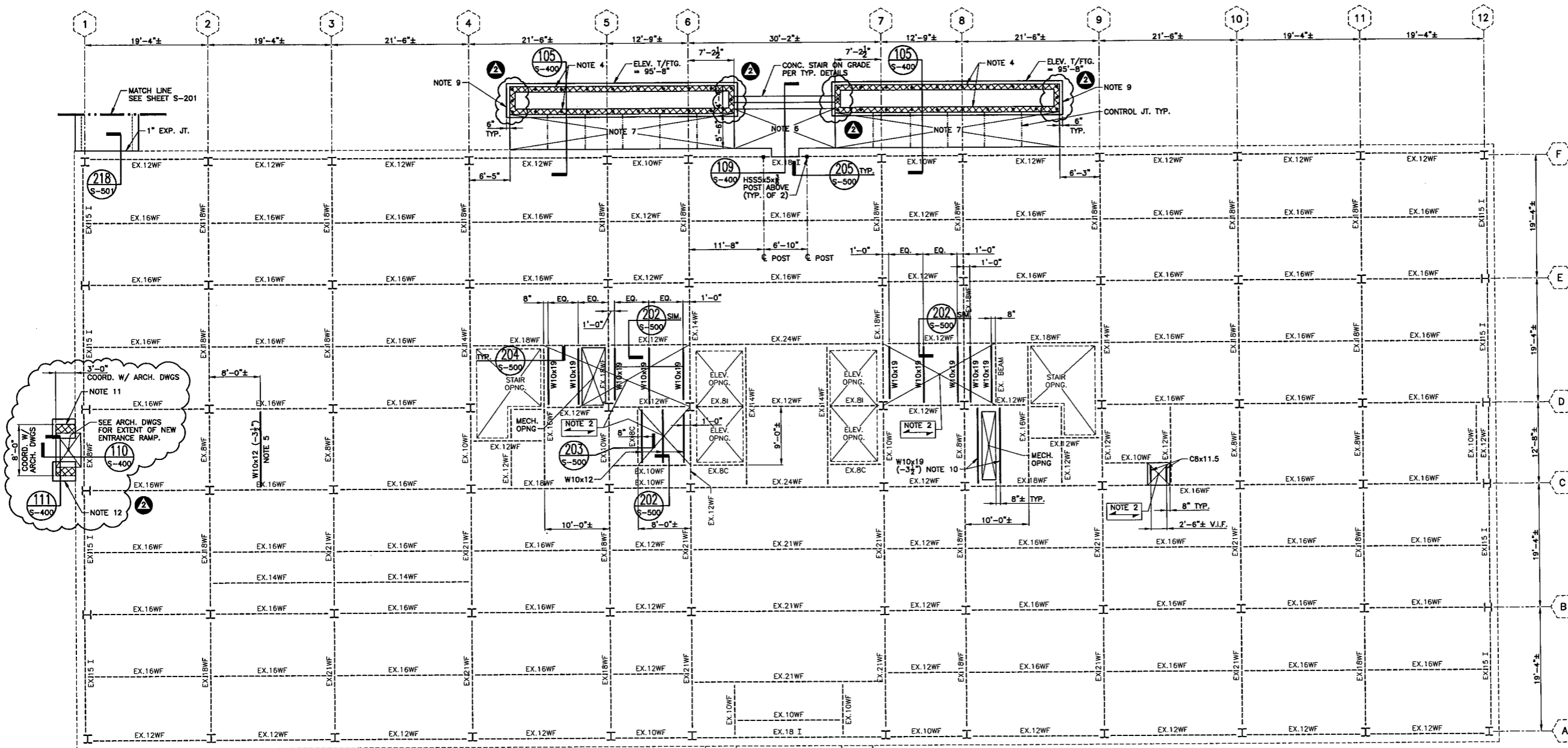
PWWG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

WEST VIRGINIA STATE OFFICE BUILDING NO.3 RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

GROUND FLOOR FRAMING PLAN





**STAIR #1 EXITWAY PLATFORM  
BETWEEN FLOORS 1 AND 2**

SCALE: 1/8" = 1'-0"

NOTES:

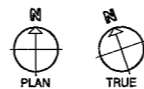
- ELEV. T/STEEL = 108'-5" TYP. U.N.O. (±) FROM 108'-5".
- 3" N.W.T. CONC. SLAB ON 2"-20 GA. COMP. STEEL DECK (TOTAL SLAB THICKNESS = 5") REINF. W/ 6x6-W1.4xW1.4 W.W.F. ELEV. T/SLAB = 108'-2".
- CONTRACTOR TO VERIFY ELEV. T/SLAB MATCHES ELEV. T/EXIST. STAIR LANDING SLAB.

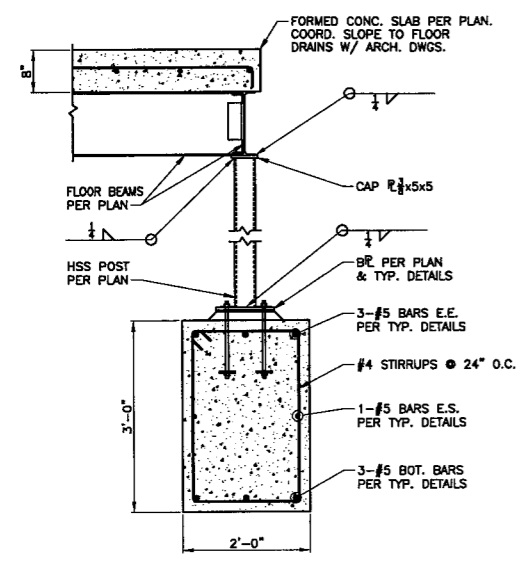
**FIRST FLOOR FRAMING AND FOUNDATION PLAN**

SCALE: 1/8" = 1'-0"

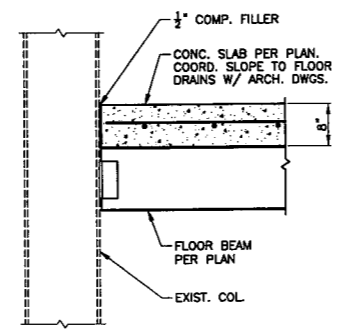
NOTES:

- ELEV. T/STEEL = 99'-6 1/2" TYP. UNLESS NOTED (±) FROM 99'-6 1/2"
- 3 1/2" N.W.T. CONC. SLAB ON 2"-20 GA. COMP. STEEL DECK (TOTAL SLAB THICKNESS = 5 1/2") REINF. W/ 6x6-W1.4xW1.4 W.W.F. ELEV. T/SLAB = 100'-0".
- PROVIDE NEW MECH. DUCT OPNG. THROUGH EXIST. 9"± CONC. FLOOR SLAB PER MECH. DWGS (NOT SHOWN FOR CLARITY) & PROVIDE SUPPLEMENTAL FRAMING PER TYP. FLOOR OPNG. FRAMING DETAILS ON SHEET S-301 AT EACH OPNG.
- 10" CONC. MASONRY WALL REINF. W/ #5 @ 48" O.C. VERT. GROUT CELLS W/ REINF. SOLID F'm = 1,500 PSI.
- COORD. LOCATION OF W10 W/ PLATFORM STAIR STRINGER LOCATION PER ARCH. DWGS. DRYPACK BEAM TIGHT TO U/S OF EXIST. SLAB W/ NON-SHRINK GROUT.
- 4" CONC. SLAB ON GRADE REINF. W/ 6x6-W1.4xW1.4 W.W.F. ELEV. T/SLAB = SEE ARCH. DWGS. COORD. EXTENTS W/ ARCH. DWGS.
- 4" CONC. RAMP SLAB ON GRADE REINF. W/ 6x6-W1.4xW1.4 W.W.F. ELEV. T/SLAB = SLOPES, SEE ARCH. DWGS.
- ELEV. T/EXIST. STEEL = -0'-5 1/2" BELOW FINISHED FLOOR TYP. PER EXIST. STRUCTURAL DRAWINGS. FIELD VERIFY ELEV. T/EXIST. STEEL AS REQ'D.
- 5'-4"x1'-0" THICK CONT. WALL FTG. REINF. W/ 5-#5 LONG. TOP & BOT. & #5 @ 24" O.C. TRANSVERSE TOP & BOT.
- COORD. LOCATION OF W10'S W/ MECH. OPNG. PER ARCH. & MECH. DWGS. DRYPACK BEAM TIGHT TO U/S PF EXIST. SLAB W/ NON-SHRINK GROUT.
- 16" CONC. MASONRY WALL GROUTED SOLID.
- 3'-0"x1'-0" THICK CONT. CONC. WALL FTG. REINF. W/ 3-#5 LONG. & #5 @ 24" O.C. TRANS.

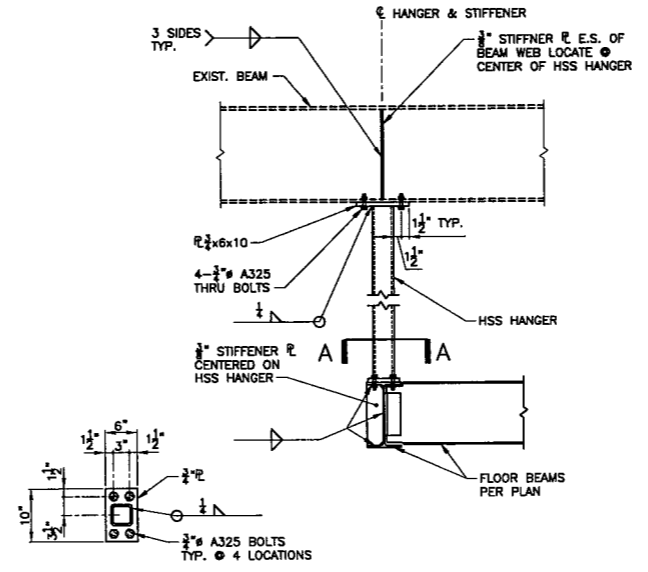




SECTION 100  
SCALE: 3/4" = 1'-0"  
S-400

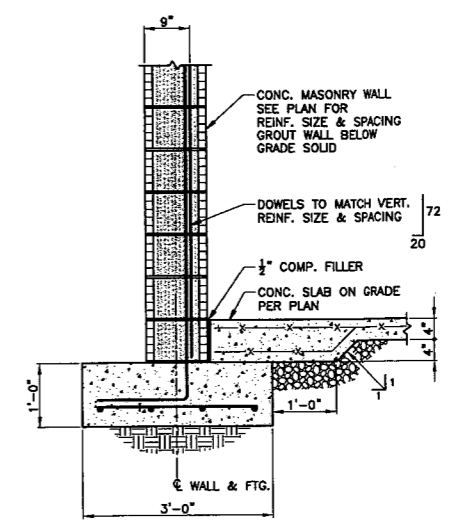


SECTION 101  
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S-400

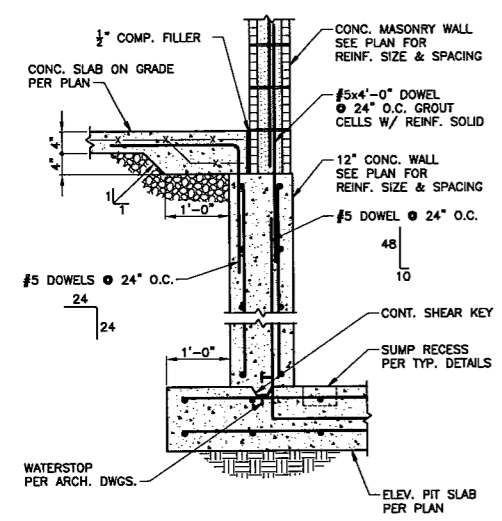


SECTION A-A

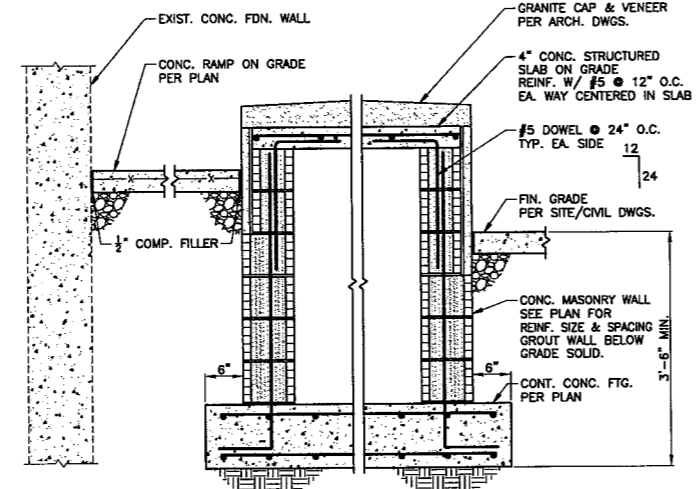
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S-400



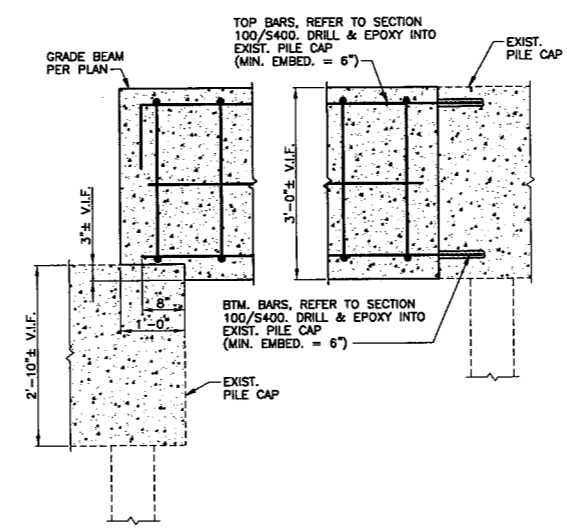
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S-400



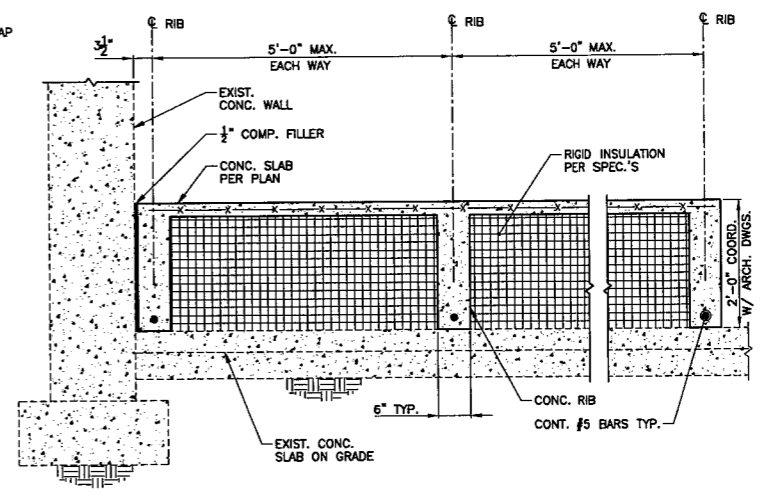
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S-400



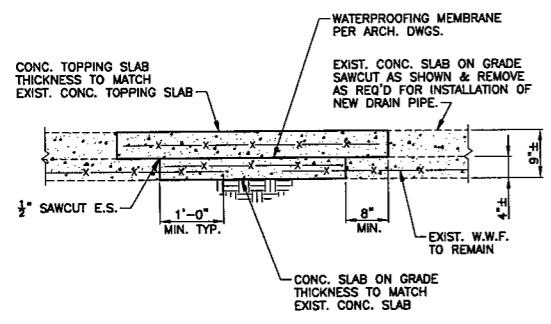
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S-400



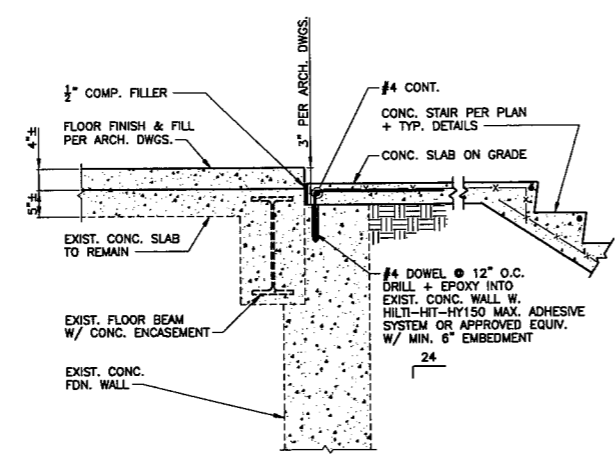
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S-400



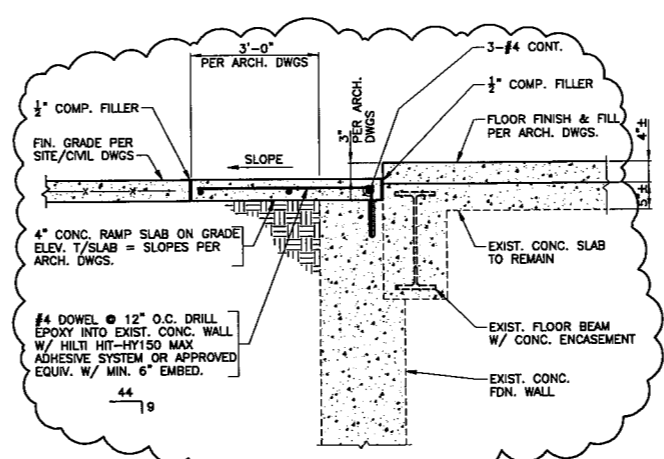
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S-400



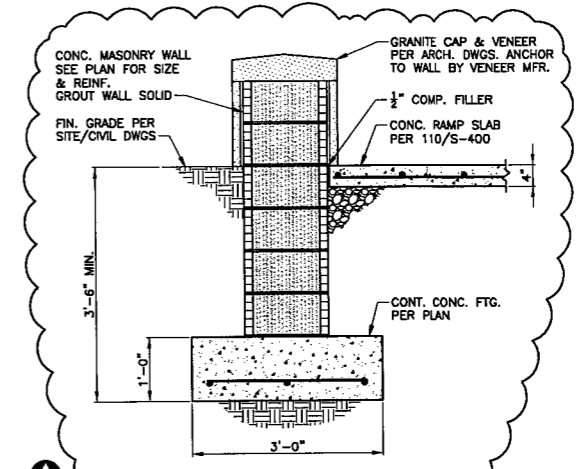
SECTION 108  
SCALE: 3/4" = 1'-0"  
S-400



SECTION 109  
SCALE: 3/4" = 1'-0"  
S-400



SECTION 110  
SCALE: 3/4" = 1'-0"  
S-400



SECTION 111  
SCALE: 3/4" = 1'-0"  
S-400

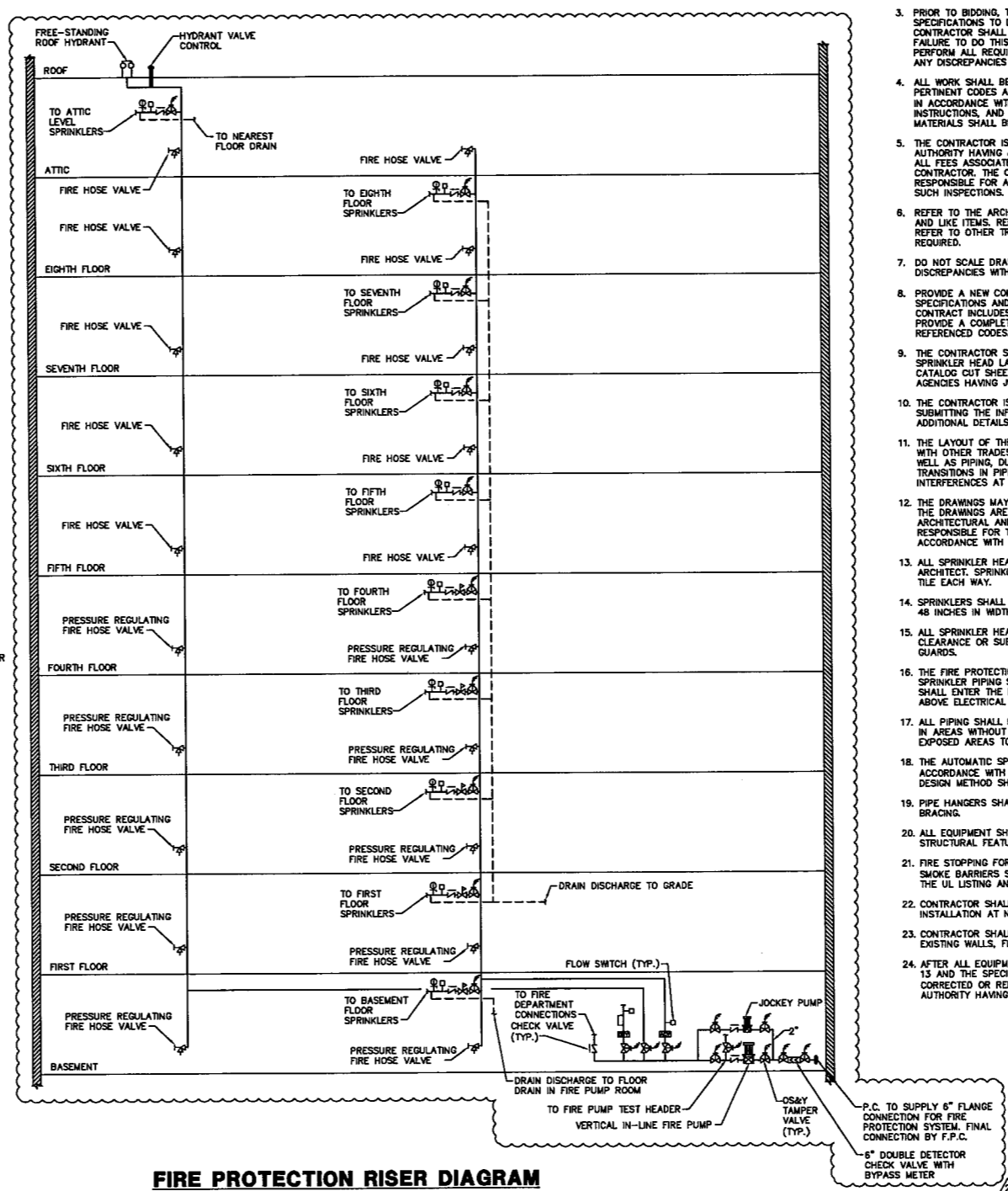
**FIRE PROTECTION LEGEND - SYMBOLS AND ABBREVIATIONS**

	FIRE MAIN PIPING (F)	12/12 A.P.	ACCESS PANEL (NUMBERS DENOTE SIZE)
	SEMI-RECESSED PENDENT-TYPE SPRINKLER HEAD	A.C.	ABOVE CEILING
	SEMI-RECESSED PENDENT-TYPE EXTENDED COVERAGE SPRINKLER HEAD	A.C.U.	AIR CONDITIONING UNIT
	FULLY CONCEALED PENDENT-TYPE SPRINKLER HEAD	A.H.U.	AIR HANDLING UNIT
	UPRIGHT-TYPE SPRINKLER HEAD	B.F.	BELOW FLOOR
	DRY PENDENT HEAD	CONN.	CONNECT OR CONNECTION
	SEMI-RECESSED SIDEWALL-TYPE SPRINKLER HEAD	CU. FT.	CUBIC FEET
	FULLY CONCEALED SIDEWALL-TYPE SPRINKLER HEAD	CU. IN.	CUBIC INCH
	ELECTRIC OPERATED ALARM BELL	DEG. OR °	DEGREE
	FIRE DEPARTMENT CONNECTION	DIA. OR Ø	DIAMETER
	ANGLE HOSE VALVE	E.C.	ELECTRICAL CONTRACTOR
	VALVE CONTROL STATION	EL.	ELEVATION
	BALL VALVE	EX.	EXISTING
	WATER FLOW SWITCH	E.T.R.	EXISTING TO REMAIN
	CHECK VALVE	EXP.	EXPANSION
	UNION	F.	FAHRENHEIT
	VALVE WITH TAMPER SWITCH	F.P.C.	FIRE PROTECTION CONTRACTOR
	PRESSURE GAUGE	FT.	FOOT OR FEET
	PRESSURE REDUCING VALVE (PRV)	F.A.	FROM ABOVE
	ANGLE HOSE VALVE	F.B.	FROM BELOW
	PIPE RISER	G.A.	GAGE OR GAUGE
	PIPE DROP	GAL.	GALLONS
	RISER WITH VALVED HOSE CONNECTION	G.P.H.	GALLONS PER HOUR
	CAP OR PLUG END OF PIPE	G.P.D.	GALLONS PER DAY
	BREAK IN LINE	G.P.M.	GALLONS PER MINUTE
	ALARM CHECK VALVE ASSEMBLY	G.C.	GENERAL CONTRACTOR
	DRY PIPE VALVE ASSEMBLY	H.C.	HEATING CONTRACTOR
		HGT.	HEIGHT
		HP.	HORSEPOWER
		HR.	HOUR(S)
		I.D.	INTERNATIONAL PIPE STANDARD
		I.P.S.	INSIDE DIAMETER
		INV. ELEV.	INVERT ELEVATION
		K.S.E.C.	KITCHEN SUPPLY EQUIPMENT CONTRACTOR
		LG.	LENGTH
		LF.	LINEAR FEET
		MAX.	MAXIMUM
		MIN.	MINIMUM
		N/A	NOT APPLICABLE
		N.I.C.	NOT IN CONTRACT
		N.T.S.	NOT TO SCALE
		NO.	NUMBER
		OZ.	OUNCE
		O.D.	OUTSIDE DIAMETER
		%	PERCENT
		PH. OR Ø	PHASE (ELECTRICAL)
		P.C.	PLUMBING CONTRACTOR
		PRESS.	PRESSURE
		R.T.U.	ROOF TOP UNIT
		S.O.V.	SHUT-OFF VALVE
		SPEC.	SPECIFICATION
		SQ. FT.	SQUARE FEET
		STD.	STANDARD
		TEMP.	TEMPERATURE
		TYP.	TYPICAL
		V.	VOLT
		VOL.	VOLUME
		W.	WATT

**NOTE:**  
THE ABOVE IS A STANDARD FIRE PROTECTION LEGEND AND LIST OF SYMBOLS AND ABBREVIATIONS. CONTRACTOR SHALL DISREGARD ALL ITEMS NOT APPLICABLE TO THIS PROJECT.

**TYPICAL ANNOTATION**

	REVISION SEQUENCE NUMBER
	NUMBERED NOTE PER DRAWING
	EQUIPMENT BY OTHERS



**FIRE PROTECTION RISER DIAGRAM**

NO SCALE  
**NOTE:**  
THIS IS A GENERAL SCHEMATIC LAYOUT AND MUST NOT BE MISCONSTRUED AS REPRESENTING ALL COMPONENTS REQUIRED BY THE RELEVANT NFPA REQUIREMENTS. ALL REQUIRED VALVES, FITTINGS, AIR COMPRESSORS, ACCESSORIES AND LIKE ITEMS ARE NOT SHOWN ON THIS DIAGRAM. ALL NECESSARY COMPONENTS MUST BE INCLUDED TO COMPLY WITH NFPA 13, 14 AND 20.

**GENERAL FIRE PROTECTION NOTES**

- SOME LEGEND SYMBOLS MAY NOT BE USED. SEE FLOOR PLAN DRAWING FOR APPLICABLE DEVICES.
- THESE NOTES ARE GENERAL IN NATURE AND PERTAIN TO THE ENTIRE PROJECT UNLESS OTHERWISE NOTED AS SUCH ON AN INDIVIDUAL DRAWING.
- PRIOR TO BIDDING, THE CONTRACTOR SHALL EXAMINE ALL PROJECT DRAWINGS AND SPECIFICATIONS TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING. FAILURE TO DO THIS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM ALL REQUIRED WORK. THE CONTRACTOR SHALL ADVISE THE PROFESSIONAL OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13 AND ALL OTHER PERTINENT CODES AND REGULATIONS. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH NFPA 13, OTHER APPLICABLE CODES, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND RECOGNIZED INDUSTRY PRACTICES. ALL EQUIPMENT, DEVICES, AND MATERIALS SHALL BE UL LISTED AND FM APPROVED.
- THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL REQUIRED INFORMATION TO THE AUTHORITY HAVING JURISDICTION TO OBTAIN THE NECESSARY PERMITS AND APPROVALS. ALL FEES ASSOCIATED WITH THIS SUBMISSION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS AND BE RESPONSIBLE FOR ALL FEES CHARGED BY THE AUTHORITY HAVING JURISDICTION FOR SUCH INSPECTIONS.
- REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS, ROOM FINISHES, FIRE WALLS, AND LIKE ITEMS. REFER TO THE STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS. REFER TO OTHER TRADES PLANS TO UNDERSTAND THE EXTENT OF THEIR WORK AS REQUIRED.
- DO NOT SCALE DRAWINGS. HOLD INDICATED DIMENSIONS WHERE SHOWN. RESOLVE ANY DISCREPANCIES WITH THE PROFESSIONAL PRIOR TO BEGINNING WORK.
- PROVIDE A NEW COMPLETE SPRINKLER/STANDPIPE SYSTEM AS DESCRIBED IN THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. THE WORK COVERED UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL EQUIPMENT, LABOR, AND MATERIALS TO PROVIDE A COMPLETE SYSTEM IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND REFERENCED CODES.
- THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS SHOWING PIPING, PIPE SIZES, AND SPRINKLER HEAD LAYOUTS, ALONG WITH SUPPORTING HYDRAULIC CALCULATIONS AND CATALOG CUT SHEETS TO THE PROFESSIONAL AND APPROPRIATE STATE AND LOCAL AGENCIES HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A WATER FLOW TEST AND SUBMITTING THE INFORMATION TO THE PROFESSIONAL REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
- THE LAYOUT OF THE DRAWINGS IS DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN STRUCTURAL ELEMENTS AS WELL AS PIPING, DUCTWORK, ELECTRICAL, AND ARCHITECTURAL WORK. PROVIDE OFFSETS, TRANSITIONS IN PIPING, AND AUXILIARY LOW POINT DRAINS AS REQUIRED TO AVOID INTERFERENCES AT NO ADDITIONAL COST TO THE PROJECT.
- THE DRAWINGS MAY NOT SHOW ALL OF THE HEADS REQUIRED. ANY HEADS SHOWN ON THE DRAWINGS ARE INTENDED TO SHOW THE INTENT OF THE LAYOUT WITH RESPECT TO ARCHITECTURAL AND OTHER TRADES WORK. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE FINAL QUANTITY AND PLACEMENT OF ALL SPRINKLER HEADS IN ACCORDANCE WITH NFPA 13.
- ALL SPRINKLER HEAD TYPES AND FINISHES SHALL BE COORDINATED WITH THE ARCHITECT. SPRINKLER HEADS INSTALLED IN CEILING TILES ARE TO BE CENTERED IN THE TILE EACH WAY.
- SPRINKLERS SHALL BE INSTALLED UNDER ALL DUCTS OR OBSTRUCTIONS GREATER THAN 48 INCHES IN WIDTH IN ACCORDANCE WITH NFPA 13.
- ALL SPRINKLER HEADS IN AREAS THROUGHOUT THE BUILDING THAT ARE BELOW 7 FOOT CLEARANCE OR SUBJECT TO MECHANICAL DAMAGE SHALL BE EQUIPPED WITH HEAD GUARDS.
- THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE ROUTING OF THE SPRINKLER PIPING SUCH THAT ONLY PIPING SERVING ELECTRICAL AND TELECOM ROOMS SHALL ENTER THE ROOM ENCLOSURES. ADDITIONALLY, ROUTING OF PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT SHALL BE AVOIDED.
- ALL PIPING SHALL BE CONCEALED IN AREAS WITH CEILINGS. PIPING SHALL BE EXPOSED IN AREAS WITHOUT CEILINGS. CONTRACTOR SHALL COORDINATE ROUTINGS WITHIN THESE EXPOSED AREAS TO PRODUCE A SYMMETRIC AND AESTHETIC PIPE AND HEAD LAYOUT.
- THE AUTOMATIC SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH THE AREA/DENSITY METHOD REQUIREMENTS OF NFPA 13. THE ROOM DESIGN METHOD SHALL NOT BE USED.
- PIPE HANGERS SHALL COMPLY WITH IBC AND NFPA REQUIREMENTS FOR SEISMIC BRACING.
- ALL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES AND ARCHITECTURAL AND STRUCTURAL FEATURES.
- FIRE STOPPING FOR ALL PIPES PENETRATING FIRE RATED WALLS AND SEALING OF SMOKE BARRIERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, THE UL LISTING AND THE SPECIFICATIONS TO MAINTAIN THE RATING.
- CONTRACTOR SHALL REPLACE IN KIND ALL CEILING TILES DAMAGED DURING INSTALLATION AT NO ADDITIONAL COST.
- CONTRACTOR SHALL REPAIR OR REFINISH ANY AREA IN KIND IF INSTALLATION DEFACES EXISTING WALLS, FLOORS, OR CEILINGS.
- AFTER ALL EQUIPMENT IS INSTALLED, IT SHALL BE TESTED IN ACCORDANCE WITH NFPA 13 AND THE SPECIFICATIONS. EQUIPMENT NOT OPERATING CORRECTLY SHALL BE FIELD CORRECTED OR REPLACED. THE OWNER'S REPRESENTATIVE, PROFESSIONAL, AND AUTHORITY HAVING JURISDICTION SHALL BE PRESENT FOR THE TEST.



4 BOULEVARD OF THE ALLIES  
PITTSBURGH, PA 15219-13 1  
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412.391.1 57 FX  
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CIL Project 007-000

PWWG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

FIRE PROTECTION LEGEND,  
SYMBOLS, NOTES AND  
ABBREVIATIONS  
**F-001**

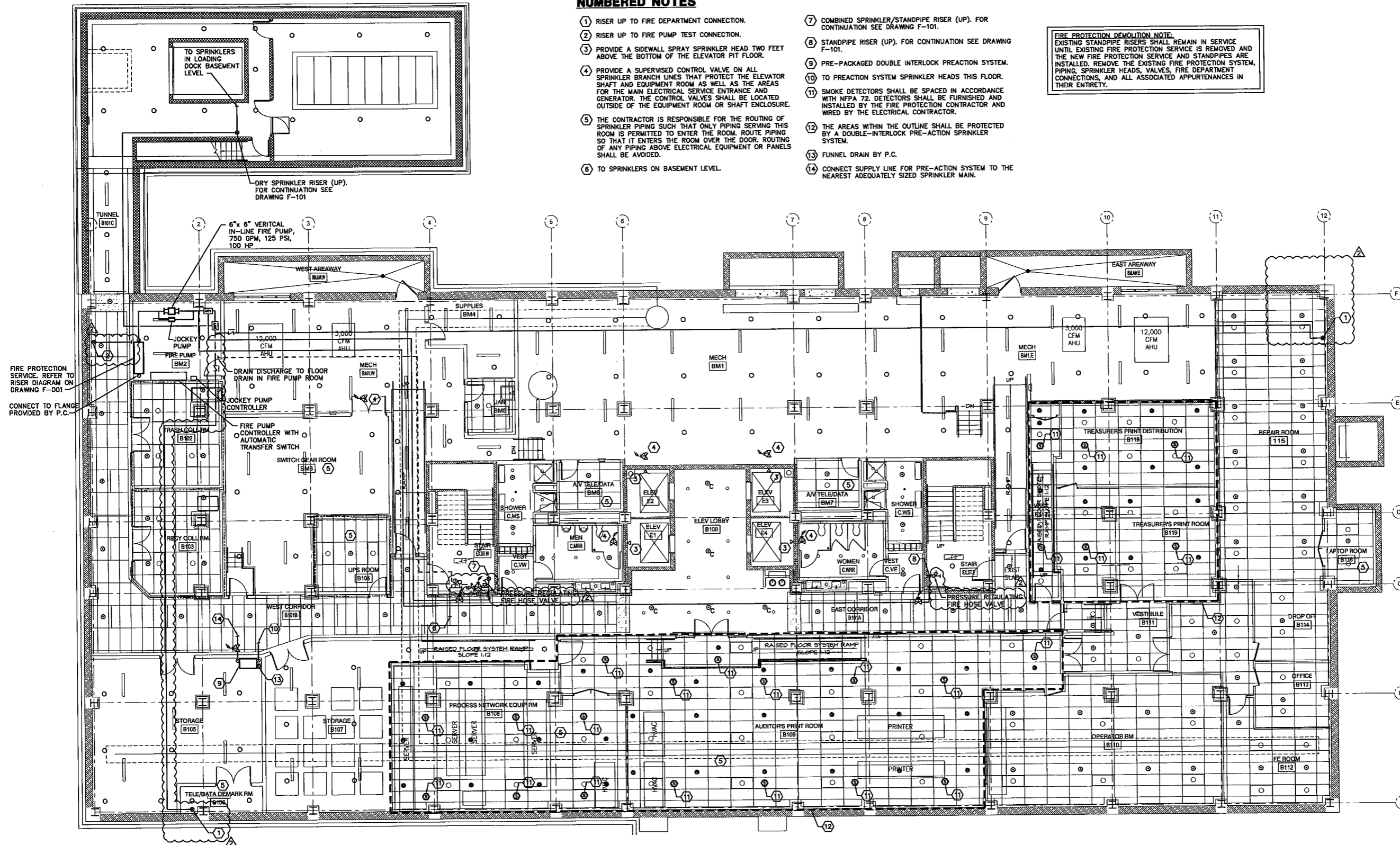


808 Stewart Street  
Pittsburgh, PA 15206-1808  
412.414.0000-1803 Fax: 412.414.0000-1798  
C.E. Project #07-006

**NUMBERED NOTES**

- ① RISER UP TO FIRE DEPARTMENT CONNECTION.
- ② RISER UP TO FIRE PUMP TEST CONNECTION.
- ③ PROVIDE A SIDEWALL SPRAY SPRINKLER HEAD TWO FEET ABOVE THE BOTTOM OF THE ELEVATOR PIT FLOOR.
- ④ PROVIDE A SUPERVISED CONTROL VALVE ON ALL SPRINKLER BRANCH LINES THAT PROTECT THE ELEVATOR SHAFT AND EQUIPMENT ROOM AS WELL AS THE AREAS FOR THE MAIN ELECTRICAL SERVICE ENTRANCE AND GENERATOR. THE CONTROL VALVES SHALL BE LOCATED OUTSIDE OF THE EQUIPMENT ROOM OR SHAFT ENCLOSURE.
- ⑤ THE CONTRACTOR IS RESPONSIBLE FOR THE ROUTING OF SPRINKLER PIPING SUCH THAT ONLY PIPING SERVING THIS ROOM IS PERMITTED TO ENTER THE ROOM. ROUTE PIPING SO THAT IT ENTERS THE ROOM OVER THE DOOR. ROUTING OF ANY PIPING ABOVE ELECTRICAL EQUIPMENT OR PANELS SHALL BE AVOIDED.
- ⑥ TO SPRINKLERS ON BASEMENT LEVEL.
- ⑦ COMBINED SPRINKLER/STANDPIPE RISER (UP). FOR CONTINUATION SEE DRAWING F-101.
- ⑧ STANDPIPE RISER (UP). FOR CONTINUATION SEE DRAWING F-101.
- ⑨ PRE-PACKAGED DOUBLE INTERLOCK PREACTION SYSTEM.
- ⑩ TO PREACTION SYSTEM SPRINKLER HEADS THIS FLOOR.
- ⑪ SMOKE DETECTORS SHALL BE SPACED IN ACCORDANCE WITH NFPA 72. DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- ⑫ THE AREAS WITHIN THE OUTLINE SHALL BE PROTECTED BY A DOUBLE-INTERLOCK PRE-ACTION SPRINKLER SYSTEM.
- ⑬ FUNNEL DRAIN BY P.C.
- ⑭ CONNECT SUPPLY LINE FOR PRE-ACTION SYSTEM TO THE NEAREST ADEQUATELY SIZED SPRINKLER MAIN.

**FIRE PROTECTION DEMOLITION NOTE:**  
EXISTING STANDPIPE RISERS SHALL REMAIN IN SERVICE UNTIL EXISTING FIRE PROTECTION SERVICE IS REMOVED AND THE NEW FIRE PROTECTION SERVICE AND STANDPIPES ARE INSTALLED. REMOVE THE EXISTING FIRE PROTECTION SYSTEM, PIPING, SPRINKLER HEADS, VALVES, FIRE DEPARTMENT CONNECTIONS, AND ALL ASSOCIATED APPURTENANCES IN THEIR ENTIRETY.

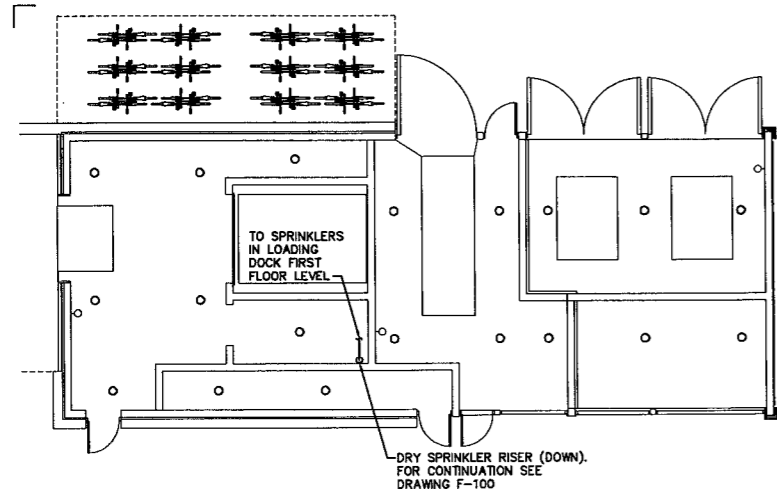


**1 BASEMENT FLOOR PLAN - FIRE PROTECTION**  
F-100 1/8" = 1'-0"

PWWG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

**WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305  
**BASEMENT FLOOR PLAN -  
FIRE PROTECTION**

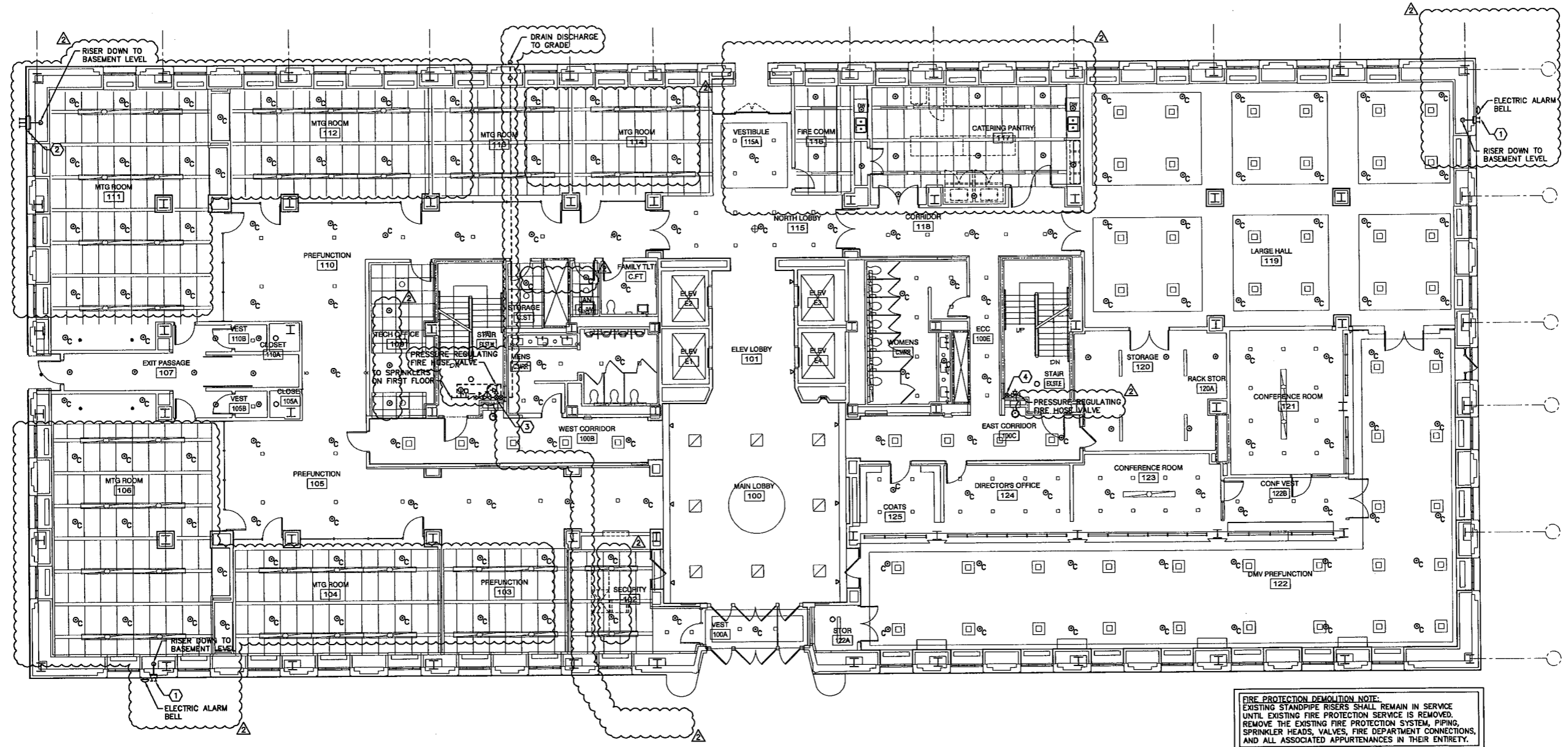


**NUMBERED NOTES**

- ① FLUSH-MOUNTED FIRE DEPARTMENT CONNECTION. INSTALL NEW FIRE DEPARTMENT CONNECTION AT THE LOCATION WHERE THE EXISTING FIRE DEPARTMENT CONNECTION WAS REMOVED. VERIFY EXACT LOCATION IN THE FIELD.
- ② FLUSH-MOUNTED FIRE PUMP TEST CONNECTION. INSTALL FIRE PUMP TEST CONNECTION WHERE EXISTING FIRE DEPARTMENT CONNECTION WAS REMOVED. VERIFY EXACT LOCATION IN THE FIELD.
- ③ COMBINED SPRINKLER/STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-100 AND F-102.
- ④ STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-100 AND F-102.

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**FIRE PROTECTION DEMOLITION NOTE:**  
EXISTING STANDPIPE RISERS SHALL REMAIN IN SERVICE UNTIL EXISTING FIRE PROTECTION SERVICE IS REMOVED. REMOVE THE EXISTING FIRE PROTECTION SYSTEM, PIPING, SPRINKLER HEADS, VALVES, FIRE DEPARTMENT CONNECTIONS, AND ALL ASSOCIATED APPURTENANCES IN THEIR ENTIRETY.

PWVG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

**WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

FIRST FLOOR PLAN -  
FIRE PROTECTION

**F-101**

**FIRST FLOOR PLAN - FIRE PROTECTION**  
F-101 1/8" = 1'-0"



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WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION

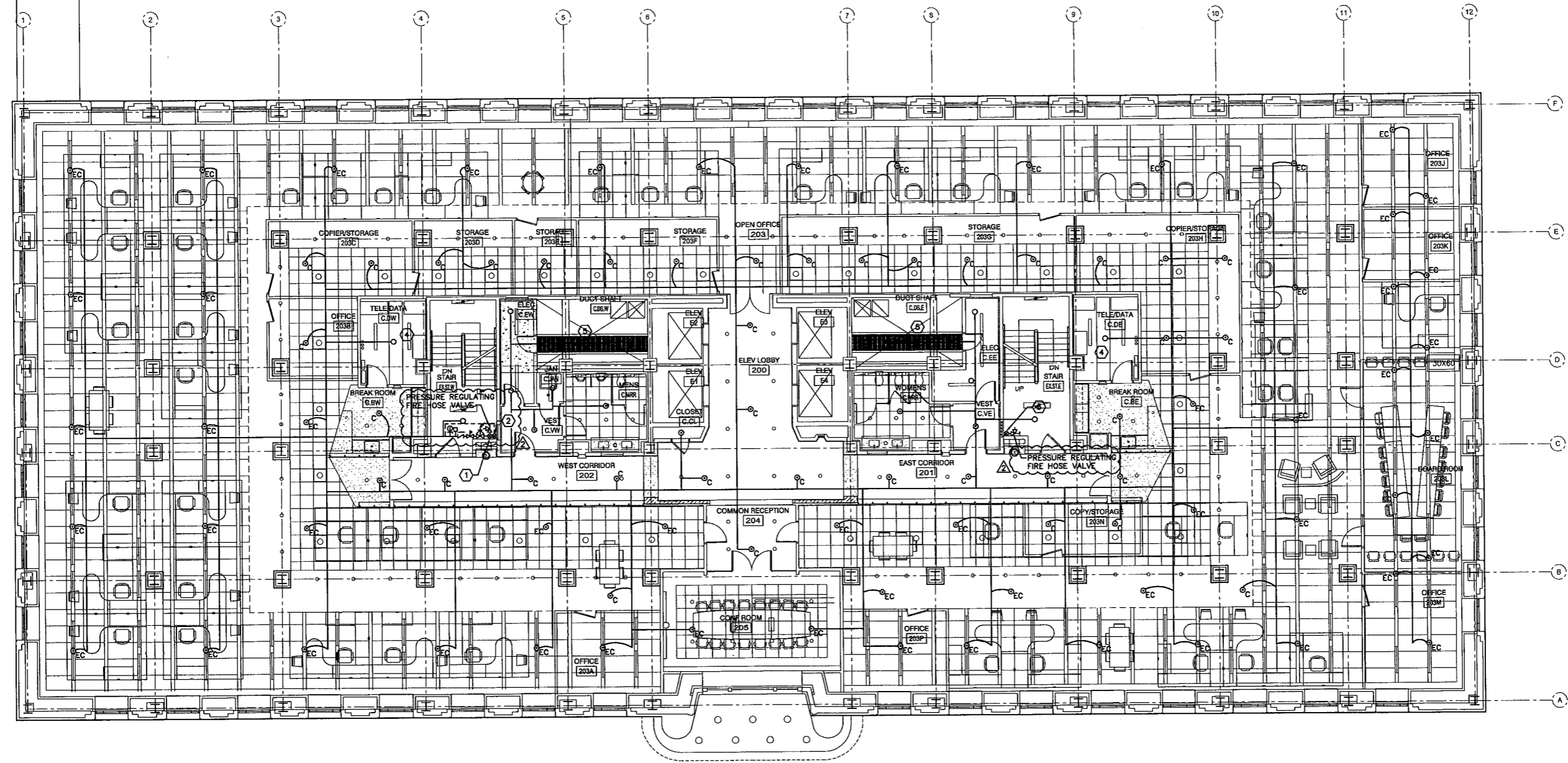
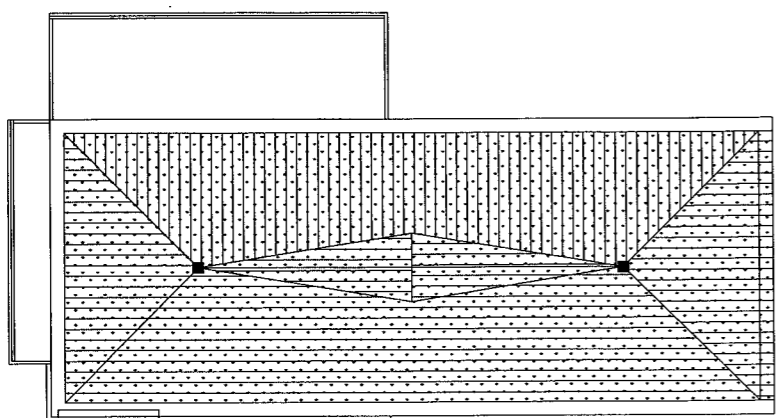
1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305  
SECOND FLOOR PLAN -  
FIRE PROTECTION

**NUMBERED NOTES**

- ① COMBINED SPRINKLER/ STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-101 AND F-103.
- ② DRAIN RISER (UP & DOWN).
- ③ STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-101 AND F-103.
- ④ THE CONTRACTOR IS RESPONSIBLE FOR THE ROUTING OF SPRINKLER PIPING SUCH THAT ONLY PIPING SERVING THIS ROOM IS PERMITTED TO ENTER THE ROOM. ROUTE PIPING SO THAT IT ENTERS THE ROOM OVER THE DOOR. ROUTING OF ANY PIPING ABOVE ELECTRICAL EQUIPMENT OR PANELS SHALL BE AVOIDED.
- ⑤ SPRINKLERS LOCATED BELOW OPEN GRATING MUST BE PROVIDED WITH A WATER SHIELD OR BE OF THE IN-RACK TYPE TO PREVENT WATER FROM OPERATING SPRINKLERS ABOVE FROM WETTING THE THERMAL ELEMENT AND DELAYING SPRINKLER OPERATION.

**CONTRACTOR NOTE:**  
SPRINKLER MAINS AND BRANCH LINES SHOWN DEMONSTRATE SUGGESTED PIPE ROUTINGS TO BE COORDINATED WITH ALL OTHER TRADES. SERIOUS CONSIDERATION SHOULD BE GIVEN TO THE EXISTING STRUCTURAL SYSTEM AND CEILING HEIGHTS IN THE PERIMETER AREAS.

**FIRE PROTECTION DEMOLITION NOTE:**  
EXISTING STANDPIPE RISERS SHALL REMAIN IN SERVICE UNTIL EXISTING FIRE PROTECTION SERVICE IS REMOVED. REMOVE THE EXISTING FIRE PROTECTION SYSTEM, PIPING, SPRINKLER HEADS, VALVES, FIRE DEPARTMENT CONNECTIONS, AND ALL ASSOCIATED APPURTENANCES IN THEIR ENTIRETY.



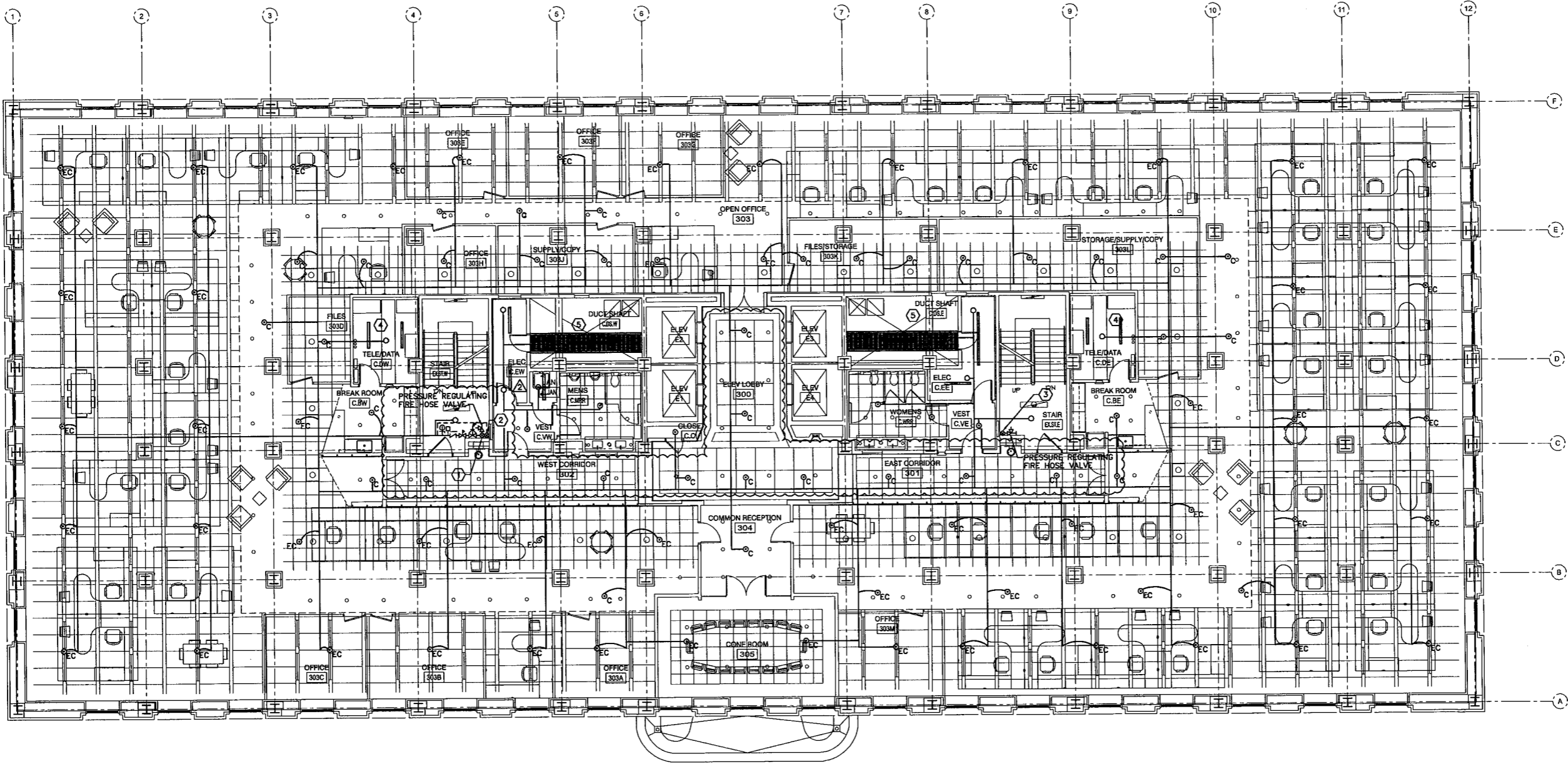
1 SECOND FLOOR PLAN - FIRE PROTECTION  
F-102 1/8" = 1'-0"

**NUMBERED NOTES**

- ① COMBINED SPRINKLER/ STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-102 AND F-104.
- ② DRAIN RISER (UP & DOWN).
- ③ STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-102 AND F-104.
- ④ THE CONTRACTOR IS RESPONSIBLE FOR THE ROUTING OF SPRINKLER PIPING SUCH THAT ONLY PIPING SERVING THIS ROOM IS PERMITTED TO ENTER THE ROOM. ROUTE PIPING SO THAT IT ENTERS THE ROOM OVER THE DOOR. ROUTING OF ANY PIPING ABOVE ELECTRICAL EQUIPMENT OR PANELS SHALL BE AVOIDED.
- ⑤ SPRINKLERS LOCATED BELOW OPEN GRATING MUST BE PROVIDED WITH A WATER SHIELD OR BE OF THE IN-RACK TYPE TO PREVENT WATER FROM OPERATING SPRINKLERS ABOVE FROM WETTING THE THERMAL ELEMENT AND DELAYING SPRINKLER OPERATION.

**CONTRACTOR NOTE:**  
SPRINKLER MAINS AND BRANCH LINES SHOWN DEMONSTRATE SUGGESTED PIPE ROUTINGS TO BE COORDINATED WITH ALL OTHER TRADES. SERIOUS CONSIDERATION SHOULD BE GIVEN TO THE EXISTING STRUCTURAL SYSTEM AND CEILING HEIGHTS IN THE PERIMETER AREAS.

**FIRE PROTECTION DEMOLITION NOTE:**  
EXISTING STANDPIPE RISERS SHALL REMAIN IN SERVICE UNTIL EXISTING FIRE PROTECTION SERVICE IS REMOVED. REMOVE THE EXISTING FIRE PROTECTION SYSTEM, PIPING, SPRINKLER HEADS, VALVES, FIRE DEPARTMENT CONNECTIONS, AND ALL ASSOCIATED APPURTENANCES IN THEIR ENTIRETY.



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OFFICE BUILDING NO.3  
RENOVATION**

1900 KANAWHA BOULEVARD EAST  
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THIRD FLOOR PLAN -  
FIRE PROTECTION

**F-103**

**1 THIRD FLOOR PLAN - FIRE PROTECTION**  
F-103 1/8" = 1'-0"

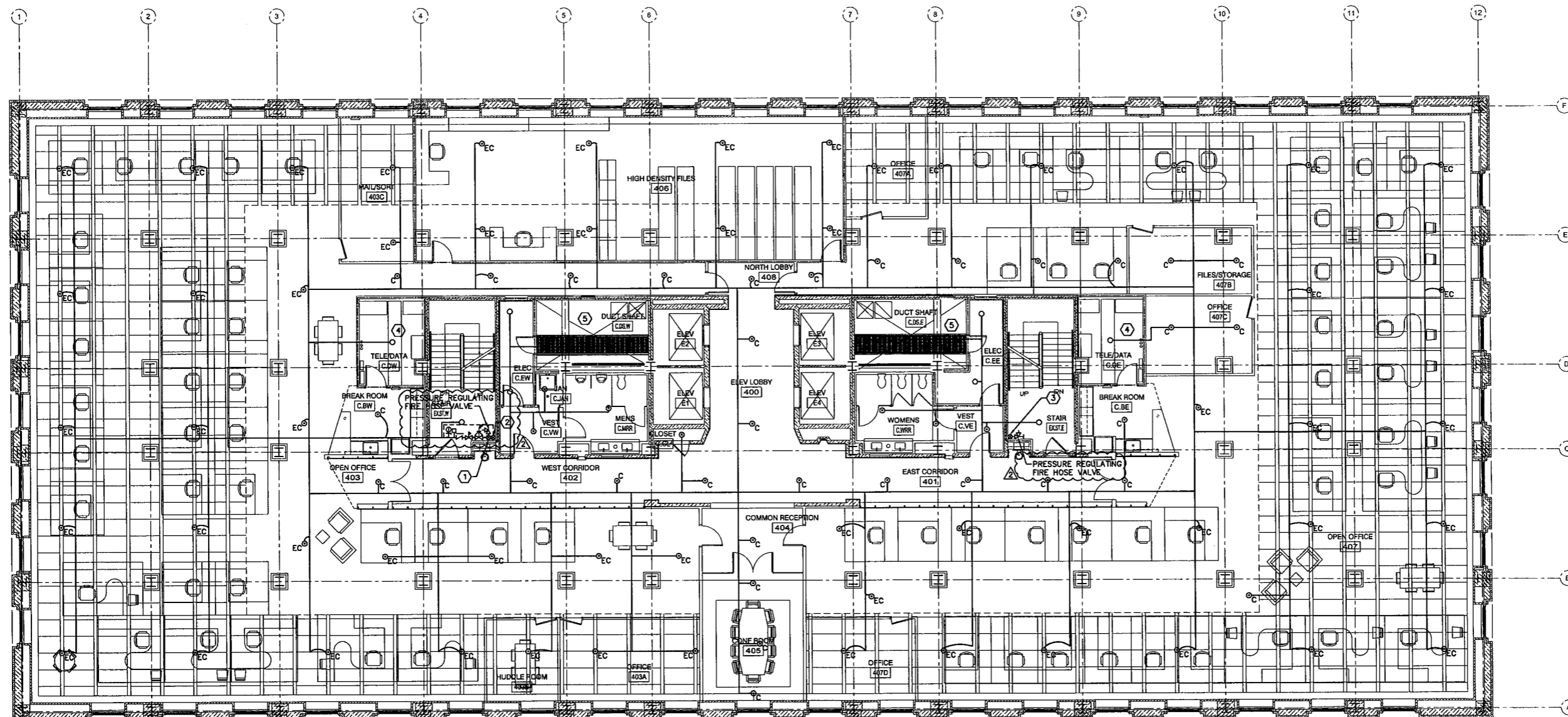


**NUMBERED NOTES**

- 1 COMBINED SPRINKLER/ STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-103 AND F-105
- 2 DRAIN RISER (UP & DOWN).
- 3 STANDPIPE RISER (UP & DOWN). FOR CONTINUATION SEE DRAWINGS F-103 AND F-105.
- 4 THE CONTRACTOR IS RESPONSIBLE FOR THE ROUTING OF SPRINKLER PIPING SUCH THAT ONLY PIPING SERVING THIS ROOM IS PERMITTED TO ENTER THE ROOM. ROUTE PIPING SO THAT IT ENTERS THE ROOM OVER THE DOOR. ROUTING OF ANY PIPING ABOVE ELECTRICAL EQUIPMENT OR PANELS SHALL BE AVOIDED.
- 5 SPRINKLERS LOCATED BELOW OPEN GRATING MUST BE PROVIDED WITH A WATER SHIELD OR BE OF THE IN-RACK TYPE TO PREVENT WATER FROM OPERATING SPRINKLERS ABOVE FROM WETTING THE THERMAL ELEMENT AND DELAYING SPRINKLER OPERATION.

**CONTRACTOR NOTE:**  
SPRINKLER MAINS AND BRANCH LINES SHOWN DEMONSTRATE SUGGESTED PIPE ROUTINGS TO BE COORDINATED WITH ALL OTHER TRADES. SERIOUS CONSIDERATION SHOULD BE GIVEN TO THE EXISTING STRUCTURAL SYSTEM AND CEILING HEIGHTS IN THE PERIMETER AREAS.

**FIRE PROTECTION DEMOLITION NOTE:**  
EXISTING STANDPIPE RISERS SHALL REMAIN IN SERVICE UNTIL EXISTING FIRE PROTECTION SERVICE IS REMOVED. REMOVE THE EXISTING FIRE PROTECTION SYSTEM, PIPING, SPRINKLER HEADS, VALVES, FIRE DEPARTMENT CONNECTIONS, AND ALL ASSOCIATED APPURTENANCES IN THEIR ENTIRETY.



**1 FOURTH FLOOR PLAN - FIRE PROTECTION**  
F-104 1/8" = 1'-0"

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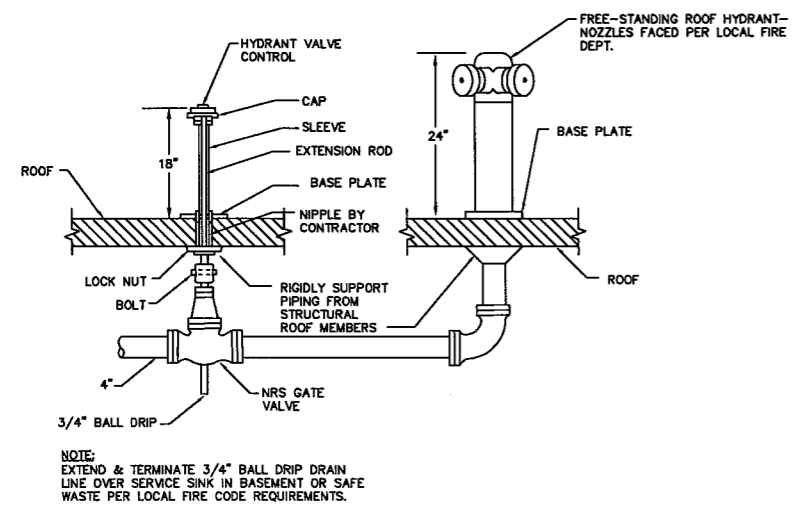
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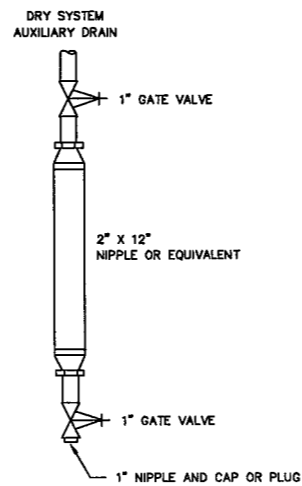
FOURTH FLOOR PLAN -  
FIRE PROTECTION



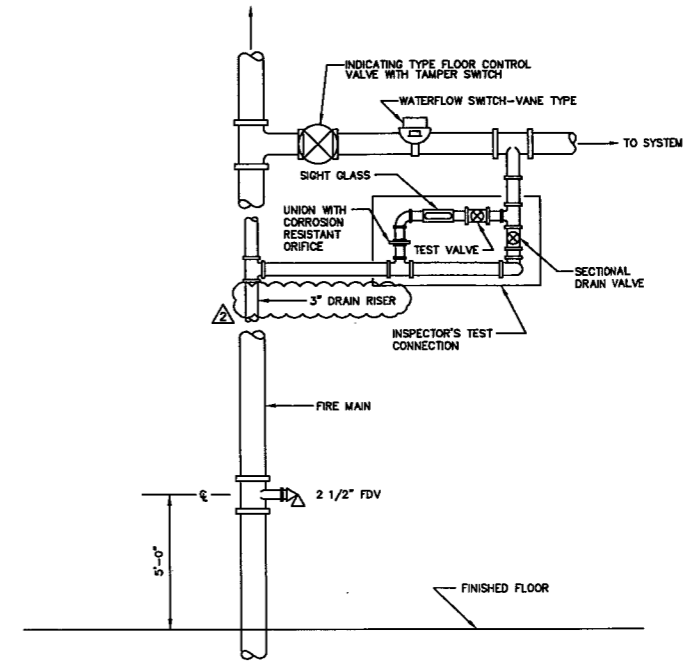


NOTE:  
 EXTEND & TERMINATE 3/4" BALL DRIP DRAIN  
 LINE OVER SERVICE SINK IN BASEMENT OR SAFE  
 WASTE PER LOCAL FIRE CODE REQUIREMENTS.

1 **ROOF HYDRANT AND VALVE CONTROL DETAIL**  
 F-500 NO SCALE



2 **DRY SPRINKLER AUXILIARY DRAIN DETAIL**  
 F-500 NO SCALE



3 **TYPICAL FLOOR CONTROL VALVE DETAIL**  
 F-500 NO SCALE



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**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
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FIRE PROTECTION DETAILS

**F-500**

**NUMBERED NOTES**

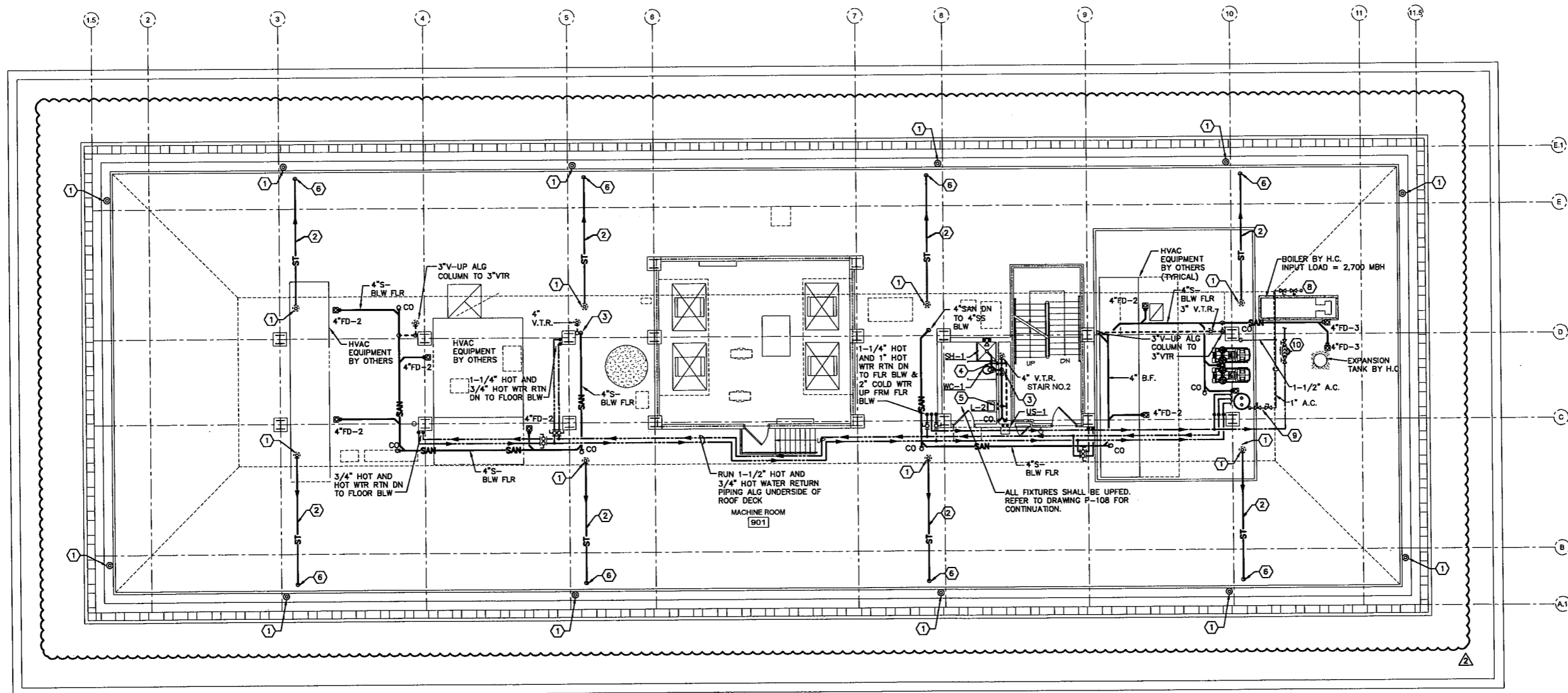
- ① CONNECT 3" STORM PIPING TO ROOF DRAIN ASSEMBLY. ROOF DRAIN ASSEMBLY BY G.C. COORDINATE EXACT LOCATION OF CONNECTION WITH G.C.
- ② EXTEND 3" STORM PIPING ALONG ROOF SLOPE DOWN TO FLOOR BELOW. REFER TO ARCHITECTURAL DRAWINGS FOR SLOPING INFORMATION.
- ③ DROP 4" SANITARY PIPING DOWN TO FLOOR BELOW. RISE 4" VENT PIPING FROM FLOOR BELOW UP TO ABOVE CEILING. REFER TO DRAWING P-108 FOR CONTINUATION.
- ④ RISE 2" VENT PIPING FROM BELOW FLOOR UP TO ABOVE CEILING.
- ⑤ PROVIDE IMV-2 UNDER FIXTURE, CONNECTED TO FIXTURE SUPPLY PIPING.
- ⑥ 3" PRIMARY AND SECONDARY STORM PIPING DOWN TO FLOOR BELOW. REFER TO DRAWINGS P-108 FOR CONTINUATION.
- ⑦ 3" PRIMARY AND SECONDARY STORM PIPING DOWN TO FLOOR BELOW. REFER TO DRAWINGS P-108 FOR CONTINUATION.
- ⑧ CONNECT 1-1/2" GAS PIPING TO BOILER GAS TRAIN BY H.C. WITH SHUT-OFF VALVE AND PRESSURE REGULATOR. MAXIMUM INCOMING PRESSURE OF REGULATOR = 2 PSI. OUTLET SETPOINT OF PRESSURE REGULATOR = 8 OZ OR AS REQUIRED BY EQUIPMENT MANUFACTURER.
- ⑨ CONNECT 1" GAS PIPING TO DWH-1 WITH SHUT-OFF VALVE AND PRESSURE REGULATOR. MAXIMUM INCOMING PRESSURE OF REGULATOR = 2 PSI. OUTLET SETPOINT OF PRESSURE REGULATOR = 8 OZ OR AS REQUIRED BY EQUIPMENT MANUFACTURER.
- ⑩ 1-1/4" COLD WATER MAKE-UP PIPING, WITH RPZ, FOR HVAC SYSTEM. EXTEND RPZ DRAIN PIPING TO NEAREST FLOOR DRAIN. COORDINATE EXACT TIE-IN LOCATION WITH H.C.



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 Jacksonville, PA 15606-1808  
 ph: (412) 286-1801 fax: (412) 286-8788  
 CIL Project #07-004



**PENTHOUSE PLAN - PLUMBING**  
 P-109 1/8" = 1'-0"

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 CHARLESTON, WEST VIRGINIA 25305

PENTHOUSE PLAN -  
 PLUMBING

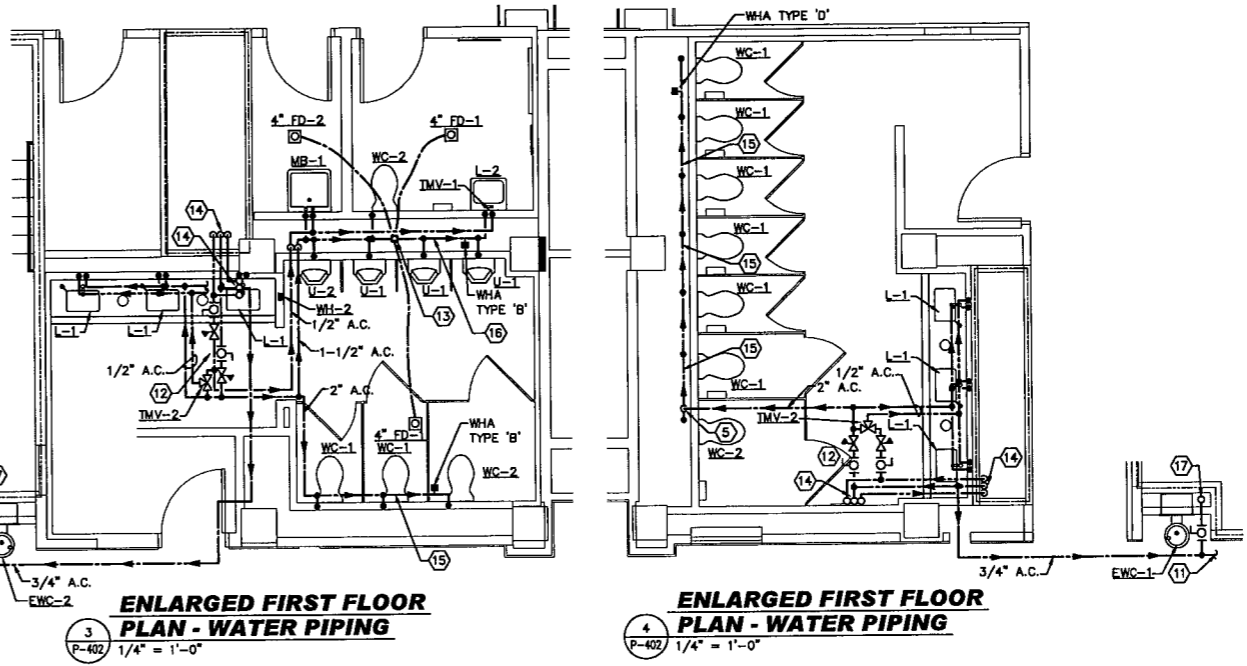
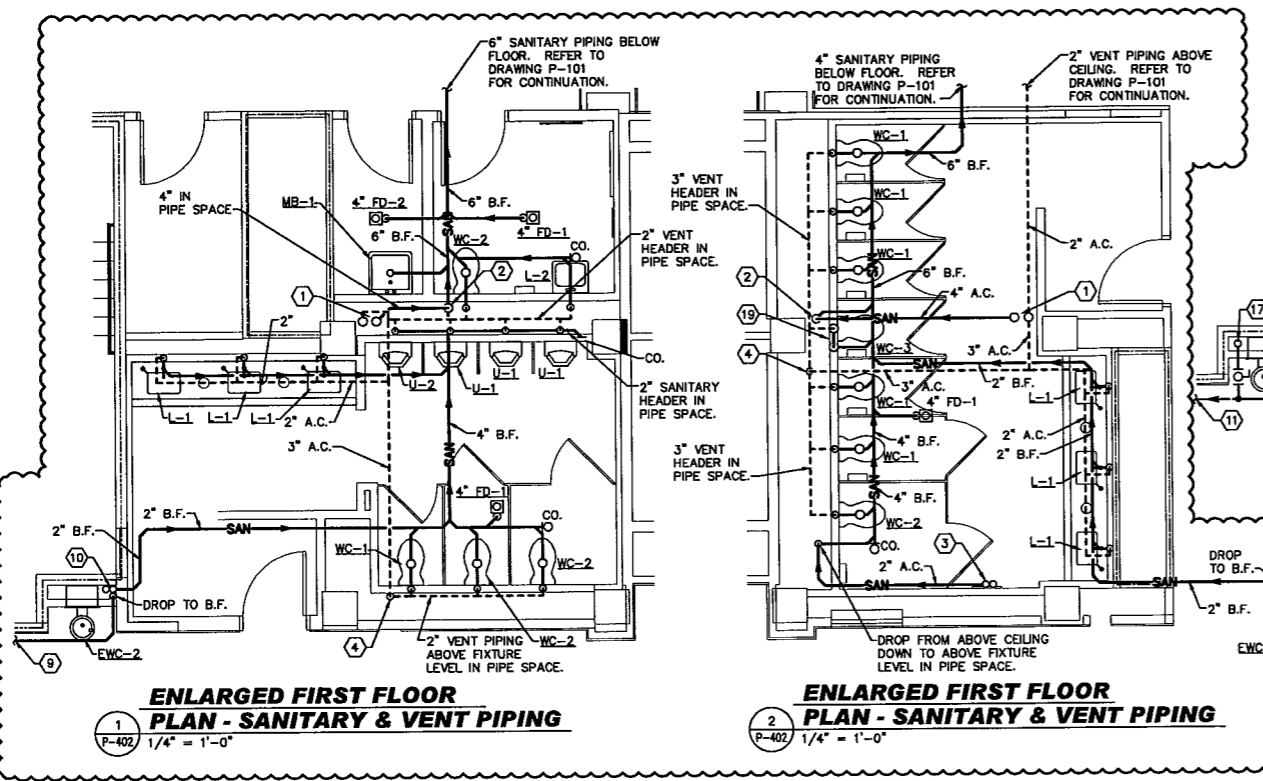
**P-109**



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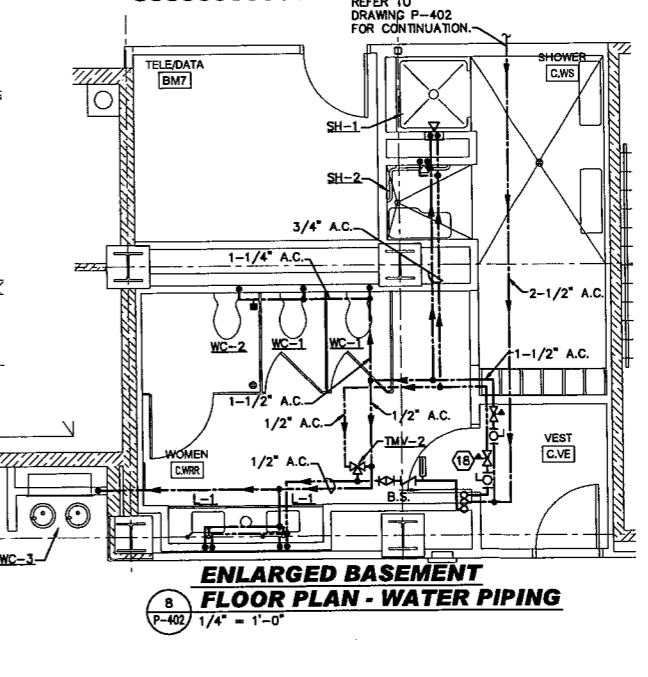
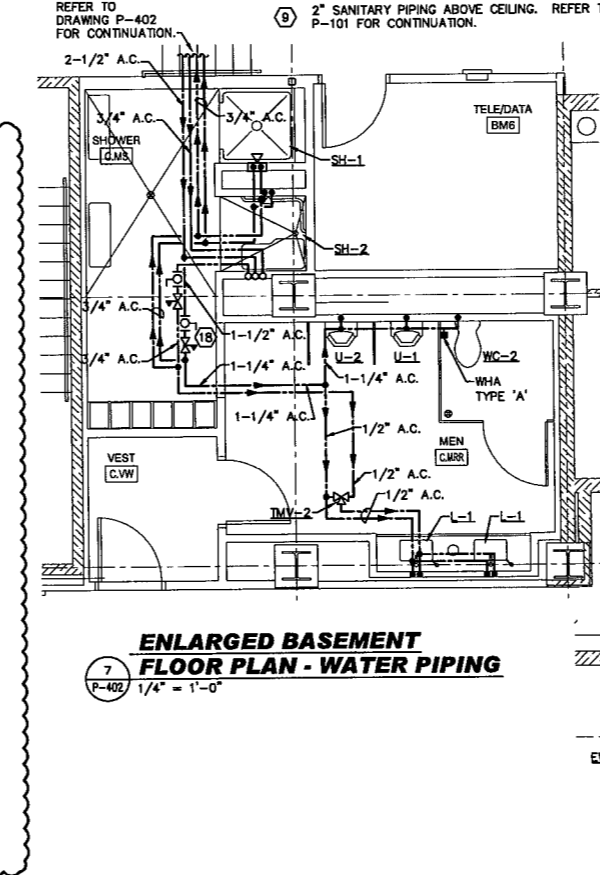
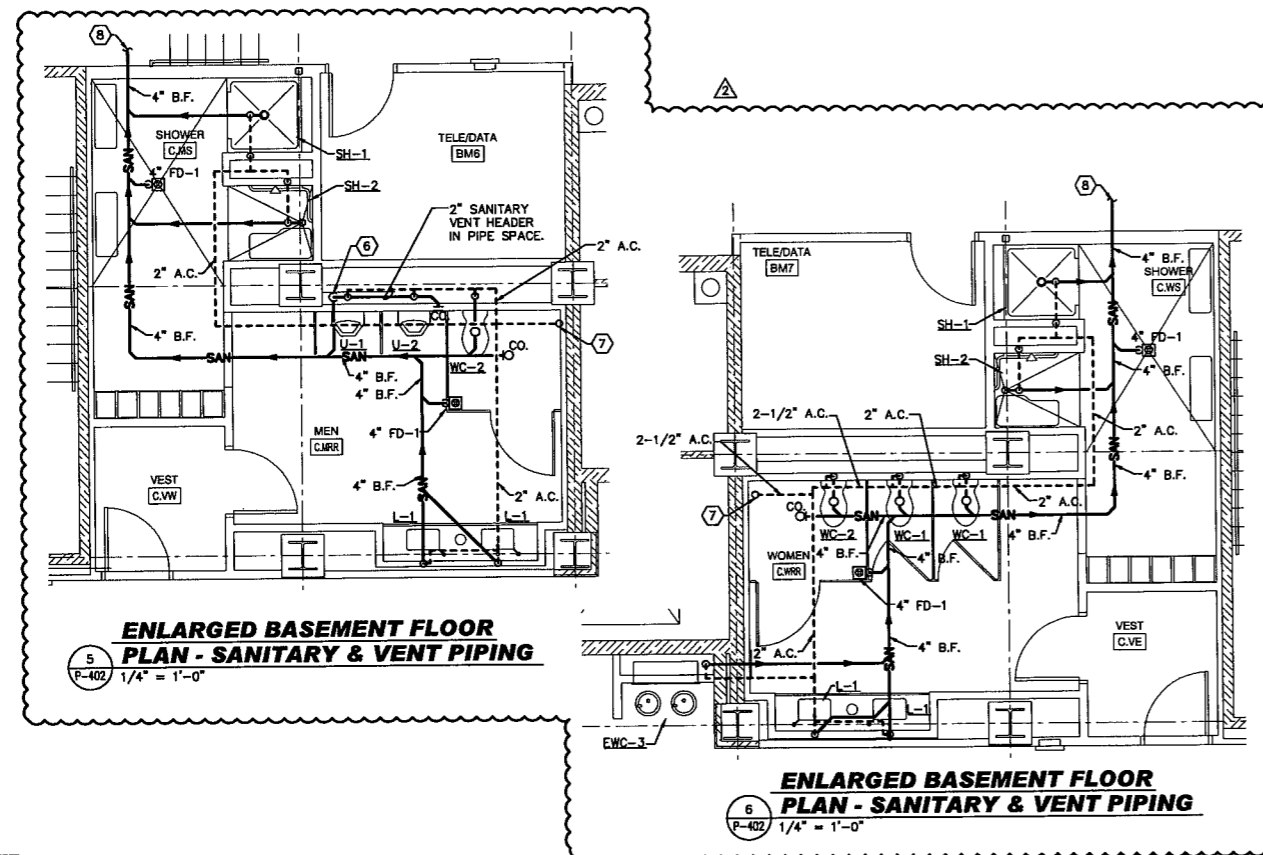


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 CIL Project #07-008



**NUMBERED NOTES**

- 4" SANITARY AND VENT PIPING UP TO FLOOR ABOVE DOWN TO FLOOR BELOW. REFER TO DRAWING P-403 FOR CONTINUATION.
- DROP 4" SANITARY STACK FROM ABOVE CEILING DOWN TO BELOW FLOOR.
- 2" SANITARY & VENT PIPING UP TO FLOOR ABOVE. REFER TO DRAWING P-403 FOR CONTINUATION.
- RISE 3" VENT PIPING FROM ABOVE FIXTURE LEVEL TO ABOVE CEILING.
- DROP COLD WATER MAIN OF SIZE NOTED FROM ABOVE CEILING DOWN TO ABOVE FIXTURE LEVEL IN PIPE SPACE.
- DROP 2" SANITARY PIPING FROM PIPE SPACE DOWN TO BELOW FLOOR.
- RISE 2-1/2" VENT PIPING UP TO FLOOR ABOVE. REFER TO ENLARGED PLAN, THIS DRAWING, FOR CONTINUATION.
- 4" SANITARY PIPING BELOW FLOOR. REFER TO DRAWING P-401 FOR CONTINUATION.
- 2" SANITARY PIPING ABOVE CEILING. REFER TO DRAWING P-101 FOR CONTINUATION.
- 1-1/2" SANITARY AND VENT STACKS IN WALL. CONNECT FIXTURE DRAIN PIPING TO APPROPRIATE STACKS.
- 3/4" COLD WATER PIPING ABOVE CEILING. REFER TO DRAWING P-101 FOR CONTINUATION.
- PROVIDE PRESSURE REGULATOR ON HOT WATER AND COLD WATER PIPING AS SHOWN. SET MAXIMUM OUTLET PRESSURE OF EACH PRESSURE REGULATOR TO 70 PSI.
- TRAP PRIMER IN PIPE SPACE. DROP TRAP PRIMER PIPING DOWN TO BELOW FLOOR AND CONNECT TO FLOOR DRAIN AS SHOWN. REFER TO DRAWING P-500 FOR PIPING SCHEMATIC.
- 2-1/2" COLD WATER, 1" HOT WATER, AND 3/4" HOT WATER RETURN RISERS FROM FLOOR BELOW UP TO FLOOR ABOVE. OFFSET PIPING ABOVE CEILING AS SHOWN. REFER TO DRAWINGS P-300 AND P-403 FOR CONTINUATION AND ADDITIONAL INFORMATION.
- 2" COLD WATER HEADER ABOVE FIXTURE LEVEL IN PIPE SPACE.
- 1-1/2" COLD WATER HEADER ABOVE FIXTURE LEVEL IN PIPE SPACE.
- 3/4" COLD WATER RISER. CONNECT FIXTURE SUPPLY PIPING TO RISER. PROVIDE PRESSURE REGULATOR ON COLD WATER PIPING FOR THIS FLOOR. SET MAXIMUM OUTLET PRESSURE OF REGULATOR TO 70 PSI.
- PROVIDE PRESSURE REGULATOR ON HOT WATER AND COLD WATER PIPING. SET MAXIMUM OUTLET PRESSURE OF EACH PRESSURE REGULATOR TO 70 PSI.
- OFFSET 4" SANITARY PIPING FROM BACK-OUTLET FIXTURE IN PIPE SPACE TO AVOID EXISTING BEAM BELOW. DROP PIPING DOWN BEYOND EXISTING BEAM.



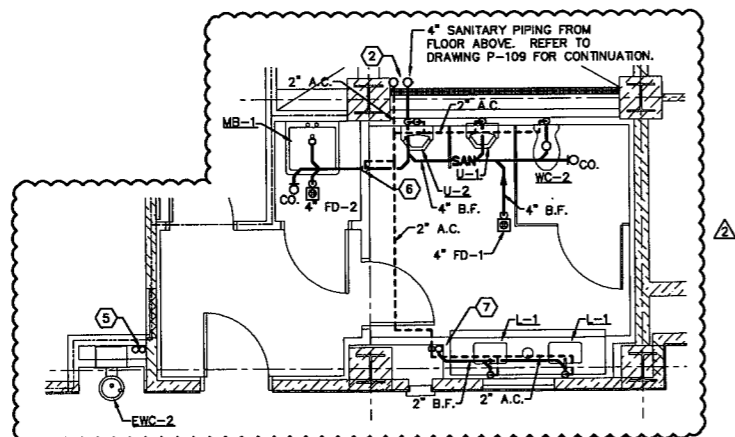
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WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

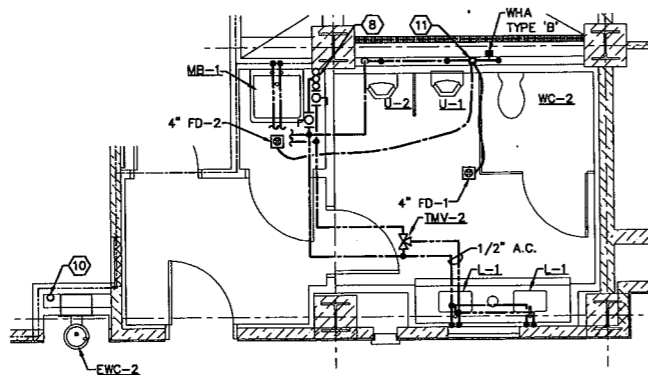
ENLARGED TOILET ROOM  
 PLANS - PLUMBING

**P-402**



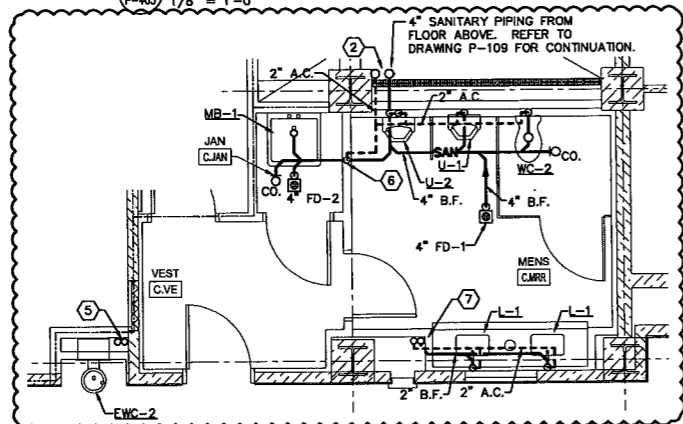
**ENLARGED EIGHTH FLOOR  
PLAN - SANITARY & VENT PIPING**

1  
P-403 1/8" = 1'-0"



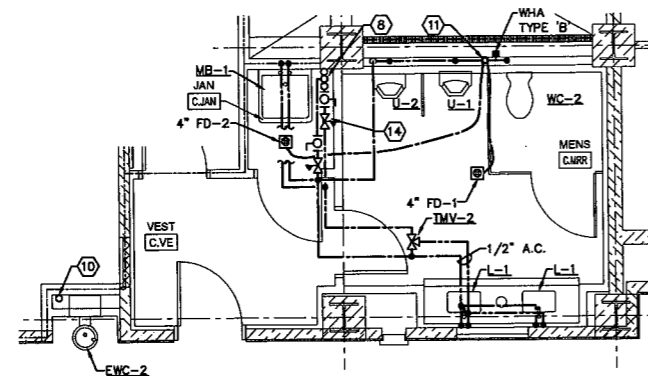
**ENLARGED EIGHTH FLOOR  
PLAN - WATER PIPING**

2  
P-403 1/8" = 1'-0"



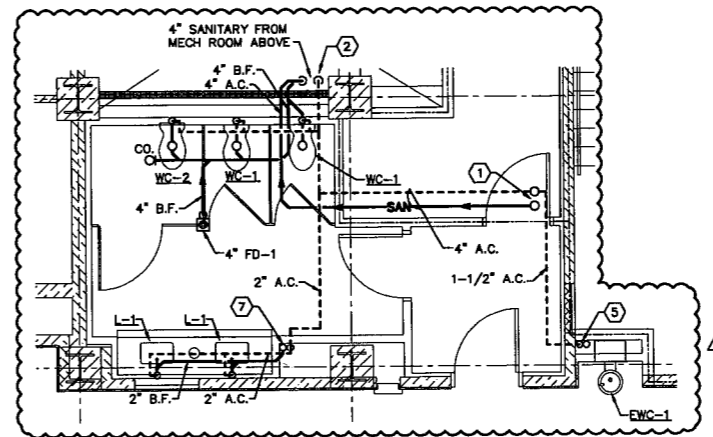
**ENLARGED SECOND THRU SEVENTH  
FLOOR PLAN - SANITARY & VENT PIPING**

3  
P-403 1/8" = 1'-0"



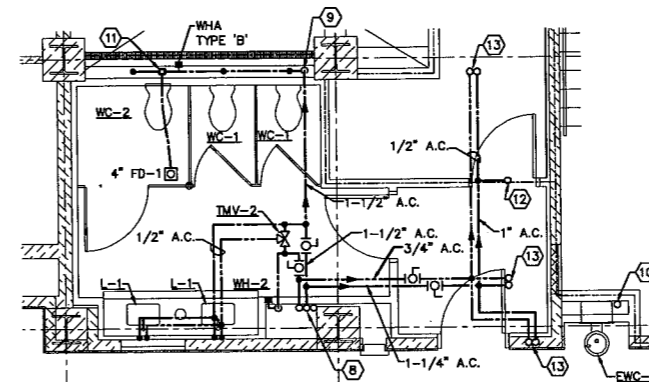
**ENLARGED SECOND THRU SEVENTH  
FLOOR PLAN - WATER PIPING**

4  
P-403 1/8" = 1'-0"



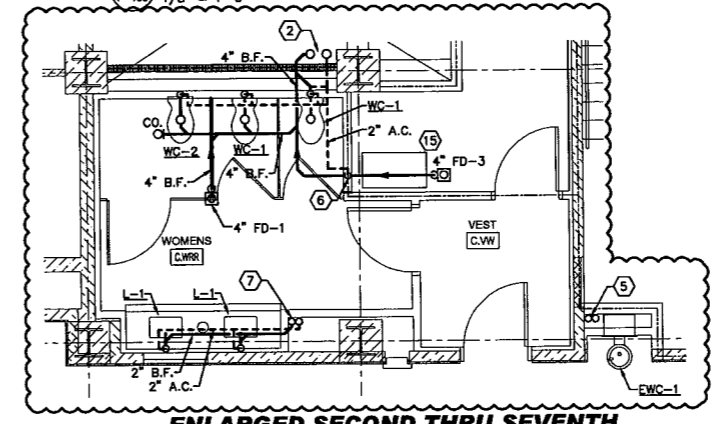
**ENLARGED EIGHTH FLOOR  
PLAN - SANITARY & VENT PIPING**

5  
P-403 1/8" = 1'-0"



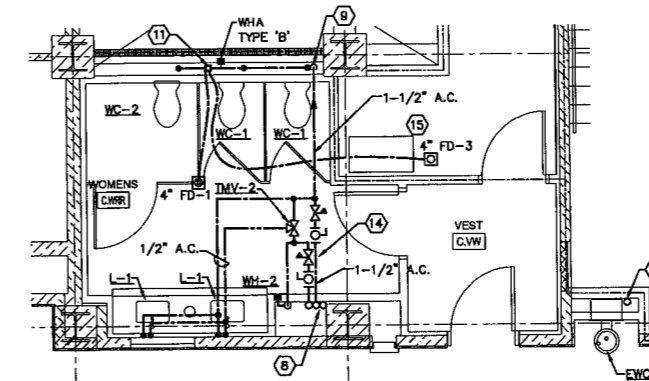
**ENLARGED EIGHTH FLOOR  
PLAN - WATER PIPING**

6  
P-403 1/8" = 1'-0"



**ENLARGED SECOND THRU SEVENTH  
FLOOR PLAN - SANITARY & VENT PIPING**

7  
P-403 1/8" = 1'-0"



**ENLARGED SECOND THRU SEVENTH  
FLOOR PLAN - WATER PIPING**

8  
P-403 1/8" = 1'-0"

**NUMBERED NOTES**

- 1 4" SANITARY AND VENT PIPING UP TO FLOOR ABOVE. REFER TO DRAWING P-109 FOR CONTINUATION.
- 2 4" SANITARY AND VENT STACKS SECOND THRU EIGHTH FLOORS. REFER TO DRAWING P-101 FOR CONTINUATION.
- 3 - DELETED -
- 4 - DELETED -
- 5 1-1/2" SANITARY AND VENT STACKS IN WALL. CONNECT FIXTURE DRAIN PIPING TO APPROPRIATE STACKS.
- 6 RISE 2" VENT PIPING UP IN WALL AND CONNECT TO 2" VENT HEADER IN PIPE SPACE.
- 7 2" SANITARY AND VENT STACKS IN PIPE SPACE. CONNECT SANITARY AND VENT PIPING TO APPROPRIATE STACKS. COORDINATE CONNECTION LOCATIONS WITH BEAM LOCATION.
- 8 2-1/2" COLD WATER, 1-1/4" HOT WATER, AND 3/4" HOT WATER RETURN RISERS SECOND THRU EIGHTH FLOORS. REFER TO DRAWING P-101 FOR CONTINUATION.
- 9 DROP 1-1/2" COLD WATER PIPING DOWN IN PIPE CHASE AND RUN 1-1/2" COLD WATER HEADER IN PIPE CHASE.
- 10 3/4" COLD WATER RISER. CONNECT FIXTURE SUPPLY PIPING TO RISER. PROVIDE PRESSURE REGULATOR ON COLD WATER PIPING ON FLOORS 2 AND 3, ONLY. SET MAXIMUM OUTLET PRESSURE OF REGULATOR TO 70 PSI.
- 11 TRAP PRIMER IN PIPE SPACE. DROP TRAP PRIMER PIPING DOWN TO BELOW FLOOR AND CONNECT TO FLOOR DRAIN AS SHOWN. REFER TO DRAWING P-500 FOR PIPING SCHEMATIC.
- 12 RISE 1" COLD WATER PIPING UP TO FIXTURE ON FLOOR ABOVE. REFER TO DRAWING P-109 FOR CONTINUATION.
- 13 RISE 1/2" HOT AND COLD WATER PIPING UP TO FIXTURE ON FLOOR ABOVE. REFER TO DRAWING P-109 FOR CONTINUATION.
- 14 PROVIDE PRESSURE REGULATOR ON HOT WATER AND COLD WATER PIPING ON FLOORS 2 AND 3, ONLY. SET MAXIMUM OUTLET PRESSURE OF EACH PRESSURE REGULATOR TO 70 PSI.
- 15 FIRE PROTECTION PRE-ACTION PANEL BY F.P.C. ON SIXTH FLOOR ONLY. PROVIDE 4" FD-3 AND ASSOCIATED PIPING FOR PRE-ACTION PANEL.

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**WEST VIRGINIA STATE  
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RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

ENLARGED TOILET ROOM  
PLANS - PLUMBING

**P-403**

### WATER CLOSETS

ID #	WATER CLOSET DESCRIPTION	SOIL & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES
WC-1	FLOOR MOUNTED BATTERY-POWERED DUAL FLUSH VALVE - STANDARD HEIGHT	4" SOIL, 2" VENT	1" CW
WC-2	FLOOR MOUNTED BATTERY-POWERED DUAL FLUSH VALVE - ADA HEIGHT	4" SOIL, 2" VENT	1" CW
WC-3	FLOOR MOUNTED, BACK OUTLET BATTERY-POWERED DUAL FLUSH VALVE - STANDARD HEIGHT	4" SOIL, 2" VENT	1" CW

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

### URINALS

ID #	URINAL DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES
U-1	WALL MOUNTED BATTERY-POWERED LOW FLOW FLUSH VALVE - STANDARD HEIGHT	2" WASTE & VENT	3/4" CW
U-2	WALL MOUNTED BATTERY-POWERED LOW FLOW FLUSH VALVE - ADA HEIGHT	2" WASTE & VENT	3/4" CW

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

### LAVATORIES

ID #	LAVATORY DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES
L-1	UNDERMOUNT BOWL WITH BATTERY-POWERED FAUCET - ADA HEIGHT	1-1/2" WASTE & VENT	1/2" HW & CW
L-2	WALL MOUNTED MANUAL FAUCET - ADA HEIGHT	1-1/2" WASTE & VENT	1/2" HW & CW

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

### SHOWERS

ID #	SHOWER DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES
SH-1	PRE-MANUFACTURED SHOWER WITH LIGHT - STANDARD HEIGHT	2" WASTE & VENT	1/2" HW & CW
SH-2	PRE-MANUFACTURED SHOWER WITH LIGHT - ADA HEIGHT	2" WASTE & VENT	1/2" HW & CW

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

### ELECTRIC WATER COOLER

ID #	ELECTRIC WATER COOLER DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES
EW-1	FULLY RECESSED WALL MOUNTED UNIT - STANDARD HEIGHT	1-1/4" WASTE & VENT	1/2" CW
EW-2	FULLY RECESSED WALL MOUNTED UNIT - ADA HEIGHT	1-1/4" WASTE & VENT	1/2" CW
EW-3	WALL MOUNTED UNIT - DUAL HEIGHT	1-1/4" WASTE & VENT	1/2" CW

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

### UTILITY SINKS

ID #	UTILITY SINK DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES
US-1	FLOOR-MOUNTED MOP BASIN	3" WASTE, 2" VENT	1/2" HW & CW
US1	UTILITY SINK	1-1/2" WASTE & VENT	1/2" HW & CW

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

### SINKS

ID #	COUNTERTOP SINK DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES	REMARKS
S-1	UNDERMOUNT SINGLE BOWL MANUAL FAUCET - ADA HEIGHT	1-1/2" WASTE & VENT	1/2" HW & CW	NOTES 1 & 3
S-2	DROP-IN DOUBLE BOWL MANUAL FAUCET - ADA HEIGHT	1-1/2" WASTE & VENT	1/2" HW & CW	NOTES 1, 2, & 3

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, TRIM INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.
- PROVIDE DISHWASHER SUPPLY AND DRAIN CONNECTIONS AS A PART OF THE SINK SUPPLY AND DRAIN PIPING BELOW SINK IN CASEWORK.
- PROVIDE COFFEE MAKER SUPPLY AND DRAIN CONNECTIONS, WITH BACKFLOW PREVENTER ON SUPPLY PIPING, AS A PART OF THE SINK SUPPLY AND DRAIN PIPING BELOW SINK IN CASEWORK.

### FLOOR DRAINS

ID #	FLOOR DRAIN DESCRIPTION	WASTE & VENT CONNECTION SIZES	WATER SUPPLY CONNECTION SIZES	LOCATION
ED-1	FLAT FINISHED TOP FOR FINISHED AREAS	4" WASTE CONNECTION	1/2" TRAP PRIMER CONNECTION	TOILET ROOMS / KITCHEN
ED-2	FLAT FINISHED TOP FOR NON-FINISHED AREAS	4" WASTE CONNECTION	1/2" TRAP PRIMER CONNECTION	JANITOR'S CLOSETS / MECHANICAL AREAS
ED-3	FLAT FINISHED FUNNEL TOP FOR NON-FINISHED AREAS	4" WASTE CONNECTION	1/2" TRAP PRIMER CONNECTION	MECHANICAL AREAS
ES-1	16x16 - HALF GRATE	6" WASTE CONNECTION	1/2" TRAP PRIMER CONNECTION	WATER SERVICE AREAS
AD-1	FLAT UNFINISHED TOP FOR NON-FINISHED AREAS	4" STORM CONNECTION	-----	-----

#### NOTES:

- REFER TO SPECIFICATIONS FOR MANUFACTURER INFORMATION, ACCESSORIES, AND ADDITIONAL INFORMATION.

### DOMESTIC WATER HEATER SCHEDULE

ID #	TYPE	STORAGE CAPACITY (GALLONS)	FUEL	INPUT KW	RECOVERY RATE GPH @ 100° RISE	ELECTRICAL INFO	REMARKS
DWH-1	TANK	100	NATURAL GAS	199	230	120/1Ø/60	NOTES 1, 2, 3

#### NOTES:

- WATER HEATER SHALL BE BY A.O. SMITH.
- REFER TO PIPING SCHEMATIC FOR MIXING VALVE, CIRCULATING PUMP, AND PIPE CONNECTION SIZES.
- WATER HEATER DISCHARGE TEMPERATURE SHALL BE SET AT 140°.

### CIRCULATING PUMP SCHEDULE

ID #	PUMP DUTY	TYPE	INFO (GPM) TDH	HP	ELECTRICAL INFO	REMARKS
HWCP-1	DOMESTIC 110° HOT WATER SYSTEM	IN-LINE	2 3	1/8	120/1Ø/60	NOTES 1, 2

#### NOTES:

- CIRCULATING PUMP SHALL BE BY BELL & GOSSETT, TACO, OR ARMSTRONG
- REFER TO PIPING SCHEMATIC FOR CONNECTION REQUIREMENTS.

### SUMP PUMP/GRINDER PUMP SCHEDULE

ID #	PUMP DUTY	TYPE	NO. OF PUMPS	INFO (GPM) TDH	POWER	ELECTRICAL INFO	REMARKS
ESP-1	ELEVATOR SUMP	FLOOR - IN PIT	1	20 20	1/3 HP	120/1Ø/60	NOTES 1, 2, 3
ESP-2	ELEVATOR SUMP	FLOOR - IN PIT	1	20 20	1/3 HP	120/1Ø/60	NOTES 1, 2, 3
ESP-3	ELEVATOR SUMP	FLOOR - IN PIT	1	20 20	1/3 HP	120/1Ø/60	NOTES 1, 2, 3
GP-1	GRINDER FOR SANITARY SYSTEM	FLOOR - IN PIT	2	70 23	2 HP	480/3Ø/60	NOTES 1, 2, 3
SP-1	SUMP PUMP FOR STORM SYSTEM	FLOOR - IN PIT	2	240 24	5 HP	480/3Ø/60	NOTES 1, 2, 3

#### NOTES:

- PUMP SHALL BE BY WEIL. REFER TO PIPING SCHEMATIC FOR PIT AND COVER REQUIREMENTS.
- REFER TO PIPING SCHEMATIC FOR CONNECTION REQUIREMENTS.
- PUMP SHALL BE OPERATED BY CONTROL PANEL. REFER TO FLOOR PLAN FOR CONTROL PANEL LOCATION. E.C. SHALL BE RESPONSIBLE FOR POWER WIRING TO THE CONTROL PANEL. P.C. SHALL BE RESPONSIBLE FOR ALL WIRING FROM THE CONTROL PANEL TO THE PUMP.

### DOMESTIC WATER BOOSTER PUMP SCHEDULE

ID #	PUMP DUTY	TYPE	TANK SIZE (GALLONS)	NO. OF PUMPS	INDIVIDUAL PUMP RATINGS (GPM) TDH	HP	BOOST PRESSURE	SYSTEM PRESSURE	SUCTION PRESSURE	ELECTRICAL INFO	REMARKS		
DWB-1	DOMESTIC WATER	SKID MOUNTED	185	2	80	100	5	33 PSI	98 PSI	60 PSI	65 PSI	480/3Ø/60	NOTES 1, 2, 3

#### NOTES:

- BOOSTER PUMP SHALL BE BY CANARIIS
- REFER TO PIPING SCHEMATIC FOR CONNECTION REQUIREMENTS.

### THERMOSTATIC MIXING VALVE SCHEDULE

ID #	LOCATION	CONNECTION SIZE (INLETS) (OUTLET)	INLET TEMPERATURE	OUTLET TEMPERATURE	TEMPERATURE DROP	REMARKS
TMV-1	PENTHOUSE	2" 2"	140° F	125° F	15° F	NOTES 1, 2
TMV-2	GROUP OF FIXTURES	3/4" 3/4"	125° F	105° F	20° F	NOTES 1, 3
TMV-3	SINGLE FIXTURE	1/2" 1/2"	125° F	105° F	20° F	NOTES 1, 3

#### NOTES:

- MIXING VALVE SHALL BE BY SYMONS, LEONARD, OR LAWLER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- MIXING VALVE SHALL MOUNTED ON WALL IN MECHANICAL ROOM. REFER TO WATER HEATING BOILER PIPING SCHEMATIC.
- MIXING VALVE SHALL BE ACCESSIBLE ABOVE CEILING WHERE NOTED ON THE DRAWINGS. REFER TO POINT-OF-USE MIXING VALVE PIPING SCHEMATIC.

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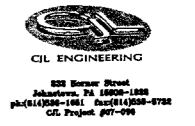
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BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

PLUMBING SCHEDULES

P-600

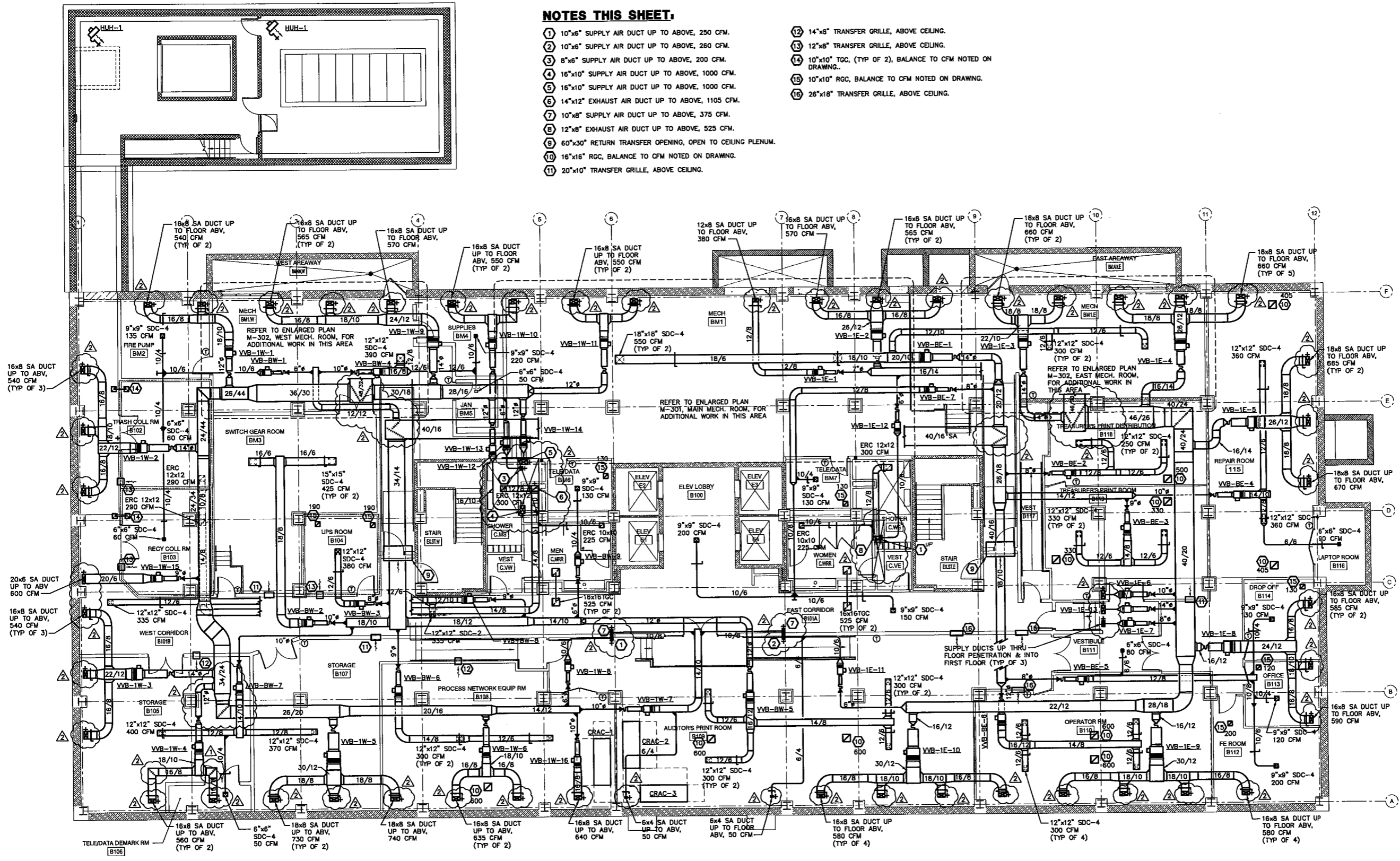


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**NOTES THIS SHEET.**

- 1 10"x6" SUPPLY AIR DUCT UP TO ABOVE, 250 CFM.
- 2 10"x6" SUPPLY AIR DUCT UP TO ABOVE, 260 CFM.
- 3 8"x6" SUPPLY AIR DUCT UP TO ABOVE, 200 CFM.
- 4 16"x10" SUPPLY AIR DUCT UP TO ABOVE, 1000 CFM.
- 5 16"x10" SUPPLY AIR DUCT UP TO ABOVE, 1000 CFM.
- 6 14"x12" EXHAUST AIR DUCT UP TO ABOVE, 1105 CFM.
- 7 10"x8" SUPPLY AIR DUCT UP TO ABOVE, 375 CFM.
- 8 12"x8" EXHAUST AIR DUCT UP TO ABOVE, 525 CFM.
- 9 60"x30" RETURN TRANSFER OPENING, OPEN TO CEILING PLENUM.
- 10 16"x16" RGC, BALANCE TO CFM NOTED ON DRAWING.
- 11 20"x10" TRANSFER GRILLE, ABOVE CEILING.
- 12 14"x8" TRANSFER GRILLE, ABOVE CEILING.
- 13 12"x8" TRANSFER GRILLE, ABOVE CEILING.
- 14 10"x10" TGC, (TYP OF 2), BALANCE TO CFM NOTED ON DRAWING..
- 15 10"x10" RGC, BALANCE TO CFM NOTED ON DRAWING.
- 16 26"x18" TRANSFER GRILLE, ABOVE CEILING.



1 **BASEMENT HVAC PLAN**  
 M-100 1/8" = 1'-0"

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 OFFICE BUILDING NO.3  
 RENOVATION**

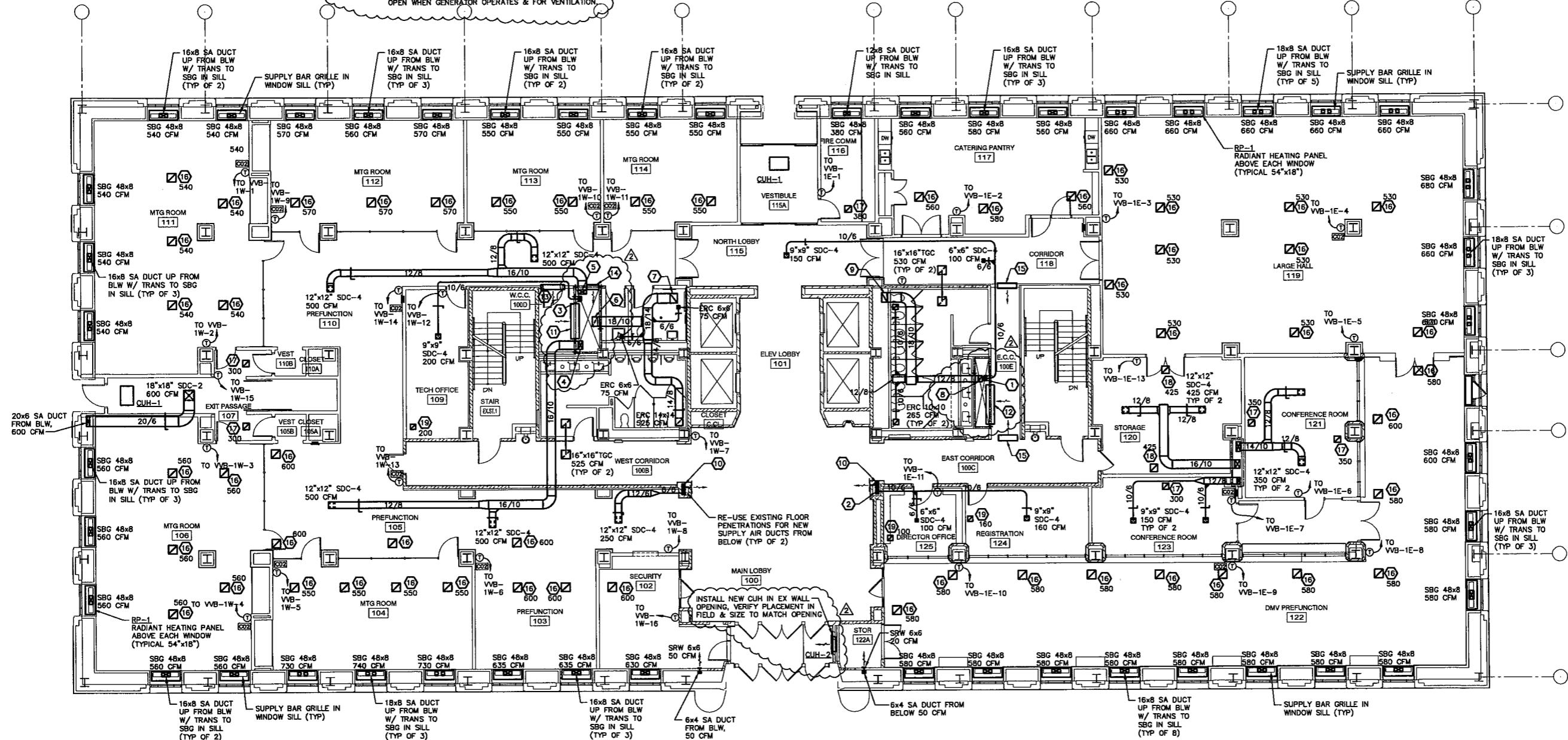
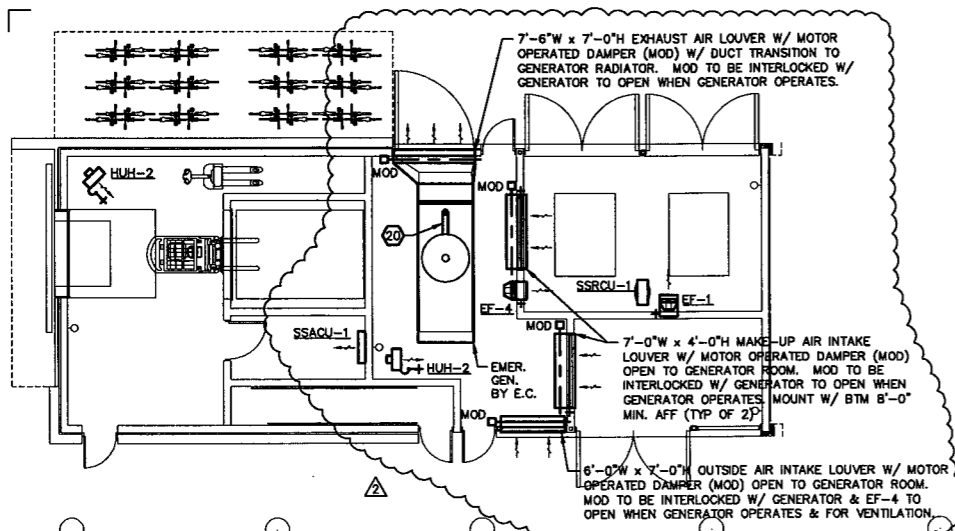
1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305  
 BASEMENT HVAC PLAN

**M-100**



**NOTES THIS SHEET:**

- 1 10"x6" SUPPLY AIR DUCT FROM BELOW, 250 CFM.
- 2 10"x6" SUPPLY AIR DUCT FROM BELOW, 280 CFM.
- 3 8"x6" SUPPLY AIR DUCT FROM BELOW, 200 CFM.
- 4 16"x10" SUPPLY AIR DUCT FROM BELOW, 1000 CFM.
- 5 16"x10" SUPPLY AIR DUCT FROM BELOW, 1000 CFM.
- 6 18"x10" EXHAUST AIR DUCT FROM BELOW, 1105 CFM.
- 7 18"x14" EXHAUST AIR DUCT UP TO ABOVE, 1780 CFM.
- 8 12"x8" EXHAUST AIR DUCT FROM BELOW, 525 CFM.
- 9 18"x10" EXHAUST AIR DUCT UP TO ABOVE, 1055 CFM.
- 10 10"x8" SUPPLY AIR DUCT FROM BELOW, 375 CFM. CONNECT TO EXISTING SIDE WALL REGISTER.
- 11 66"x24" RETURN AIR OPENING W/ FD IN CHASE WALL, OPEN TO RETURN AIR CEILING PLENUM
- 12 74"x24" RETURN AIR OPENING W/ FD IN CHASE WALL, OPEN TO RETURN AIR CEILING PLENUM
- 13 44"x24" RETURN AIR OPENING W/ FD IN CHASE WALL, OPEN TO RETURN AIR CEILING PLENUM
- 14 22"x24" RETURN AIR OPENING W/ FD IN CHASE WALL, OPEN TO RETURN AIR CEILING PLENUM
- 15 36"x24" RETURN AIR OPENING W/ FD IN CHASE WALL, OPEN TO RETURN AIR CEILING PLENUM
- 16 16"x16" RGC BALANCE TO CFM NOTED ON DRAWING.
- 17 12"x12" RGC BALANCE TO CFM NOTED ON DRAWING.
- 18 14"x14" RGC BALANCE TO CFM NOTED ON DRAWING.
- 19 10"x10" RGC BALANCE TO CFM NOTED ON DRAWING.
- 20 GENERATOR EXHAUST BY HC, SIZED PER GENERATOR MANU. REQUIREMENTS, CONNECT TO MUFFLER OUTLET & EXTEND UP & DISCHARGE OUT THRU ROOF. KEEP DISCHARGE 10'-0" MIN. FROM ANY INTAKE.



1 FIRST FLOOR HVAC PLAN  
1/8" = 1'-0"

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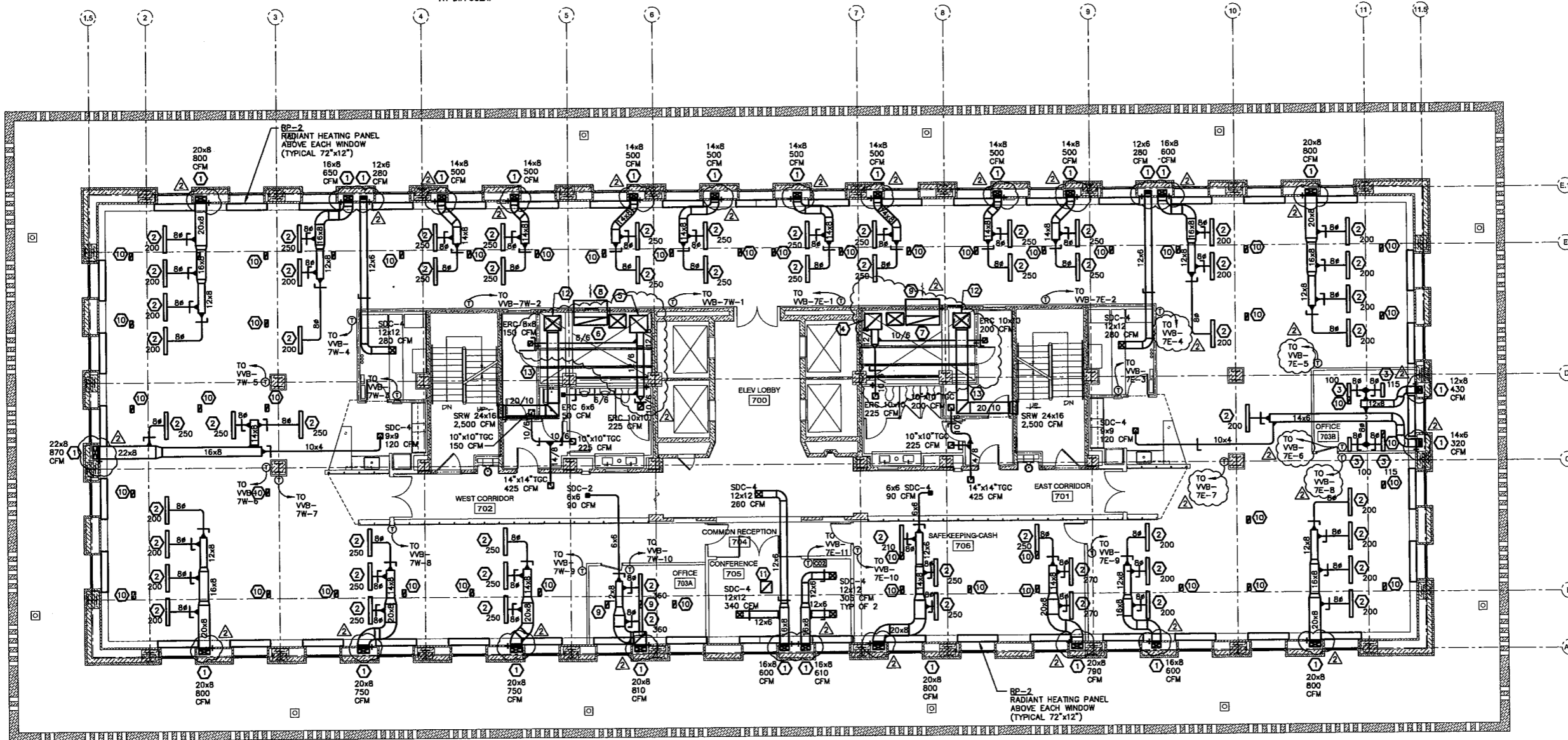
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BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

FIRST FLOOR HVAC PLAN

M-101

**NOTES THIS SHEET.**

- ① SUPPLY AIR DUCT DN FROM ABOVE IN EXTERIOR WALL, CHASE, EXTEND TO SUPPLY DIFFUSERS AS SHOWN. SIZE AS INDICATED.
- ② 48"X6"W SLOT DIFFUSER AND PLENUM BOX W/ 8" INLET. SLOT DIFFUSER SHALL HAVE (3) 3/4" SLOTS. DIFFUSER MUST BE COMPATIBLE WITH THE SPECIFIED ARCHITECTURAL CEILING SYSTEM. BALANCE TO CFM NOTED ON DRAWING AT DIFFUSER.
- ③ 24"X6"W SLOT DIFFUSER AND PLENUM BOX W/ 8" INLET. SLOT DIFFUSER SHALL HAVE (3) 3/4" SLOTS. DIFFUSER MUST BE COMPATIBLE WITH THE SPECIFIED ARCHITECTURAL CEILING SYSTEM. BALANCE TO CFM NOTED ON DRAWING AT DIFFUSER.
- ④ 28"X28" EXHAUST DUCT FROM BELOW, 5420 CFM AND 30"X28" UP TO ABOVE, 5845 CFM.
- ⑤ 30"X30" EXHAUST DUCT FROM BELOW, 7100 CFM AND 32"X30" UP TO ABOVE, 7525 CFM.
- ⑥ 60"X14" RETURN DUCT UP TO ABOVE, 7710 CFM.
- ⑦ 60"X16" RETURN DUCT UP TO ABOVE, 8630 CFM.
- ⑧ 60"X14" RETURN DUCT OPEN TO CEILING PLENUM
- ⑨ 60"X16" RETURN DUCT OPEN TO CEILING PLENUM
- ⑩ 12"X6" RGC-300 CFM. COORD. WITH DIFFUSERS, LIGHTS, & SPRINKLER HEADS AS REQUIRED.
- ⑪ 20"X20" RGC-950 CFM.
- ⑫ 30"X26" STAIR PRESSURIZATION DUCT FROM ABOVE, 10,000 CFM AND 24"X24" DOWN TO BLW AFTER TAKE-OFF, 7,500 CFM.
- ⑬ ALL STAIR PRESSURIZATION DUCT TO BE IN 2-HOUR FIRE RATED ENCLOSURE.



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1900 KANAWHA BOULEVARD EAST  
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SEVENTH FLOOR HVAC PLAN

1 SEVENTH FLOOR HVAC PLAN  
M-107 1/8" = 1'-0"

M-107



**NOTES THIS SHEET:**

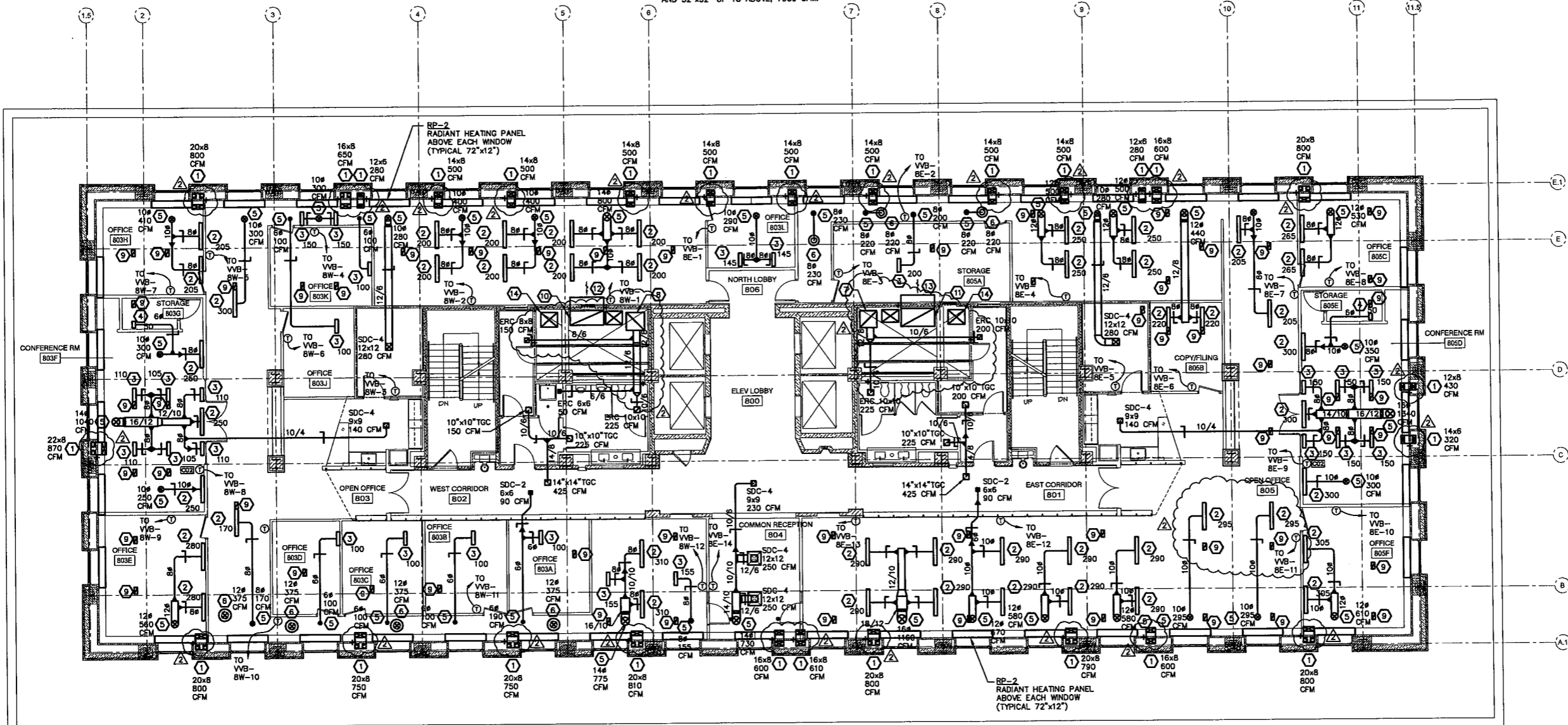
- ① SUPPLY AIR DUCT DN FROM ABOVE. OFFSET ABOVE CEILING & DROP DN TO FLOOR BELOW IN CHASE IN EXTERIOR WALL. SIZE AS INDICATED.
- ② 48" Lx6" W SLOT DIFFUSER AND PLENUM BOX W/ 8" INLET. SLOT DIFFUSER SHALL HAVE (3) 3/4" SLOTS. DIFFUSER MUST BE COMPATIBLE WITH THE SPECIFIED ARCHITECTURAL CEILING SYSTEM. BALANCE TO CFM NOTED ON DRAWING AT DIFFUSER.
- ③ 24" Lx6" W SLOT DIFFUSER AND PLENUM BOX W/ 8" INLET. SLOT DIFFUSER SHALL HAVE (3) 3/4" SLOTS. DIFFUSER MUST BE COMPATIBLE WITH THE SPECIFIED ARCHITECTURAL CEILING SYSTEM. BALANCE TO CFM NOTED ON DRAWING AT DIFFUSER.
- ④ 12" Lx6" W SLOT DIFFUSER AND PLENUM BOX W/ 8" INLET. SLOT DIFFUSER SHALL HAVE (3) 3/4" SLOTS. DIFFUSER MUST BE COMPATIBLE WITH THE SPECIFIED ARCHITECTURAL CEILING SYSTEM. BALANCE TO CFM NOTED ON DRAWING AT DIFFUSER.
- ⑤ SUPPLY AIR DUCT DN FROM ABOVE. SIZE AS INDICATED.
- ⑥ SUPPLY AIR DUCT DN FROM ABOVE & CONNECT TO ROUND SUPPLY DIFFUSER. SIZE AS INDICATED.
- ⑦ 30" x28" EXHAUST DUCT FROM BELOW, 5845 CFM AND 30" x30" UP TO ABOVE, 6270 CFM.
- ⑧ 32" x30" EXHAUST DUCT FROM BELOW, 7525 CFM AND 32" x32" UP TO ABOVE, 7950 CFM.
- ⑨ 12" x6" RGC-300 CFM. COORD. WITH DIFFUSERS, LIGHTS, & SPRINKLER HEADS AS REQUIRED.
- ⑩ 60" x14" RETURN DUCT FROM BELOW, 7710 CFM AND 60" x26" UP TO ABOVE, 16040 CFM.
- ⑪ 60" x16" RETURN DUCT FROM BELOW, 8630 CFM AND 60" x32" UP TO ABOVE, 19360 CFM.
- ⑫ 60" x16" RETURN DUCT OPEN TO CEILING PLENUM.
- ⑬ 60" x18" RETURN DUCT OPEN TO CEILING PLENUM.
- ⑭ 30" x26" STAIR PRESSURIZATION DUCT DN IN CHASE.



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 Johnstown, PA 15139-1000  
 PA-014358-1881 PA-014358-8738  
 CIL Project 907-008



1 EIGHTH FLOOR HVAC PLAN  
 M-108 1/8" = 1'-0"

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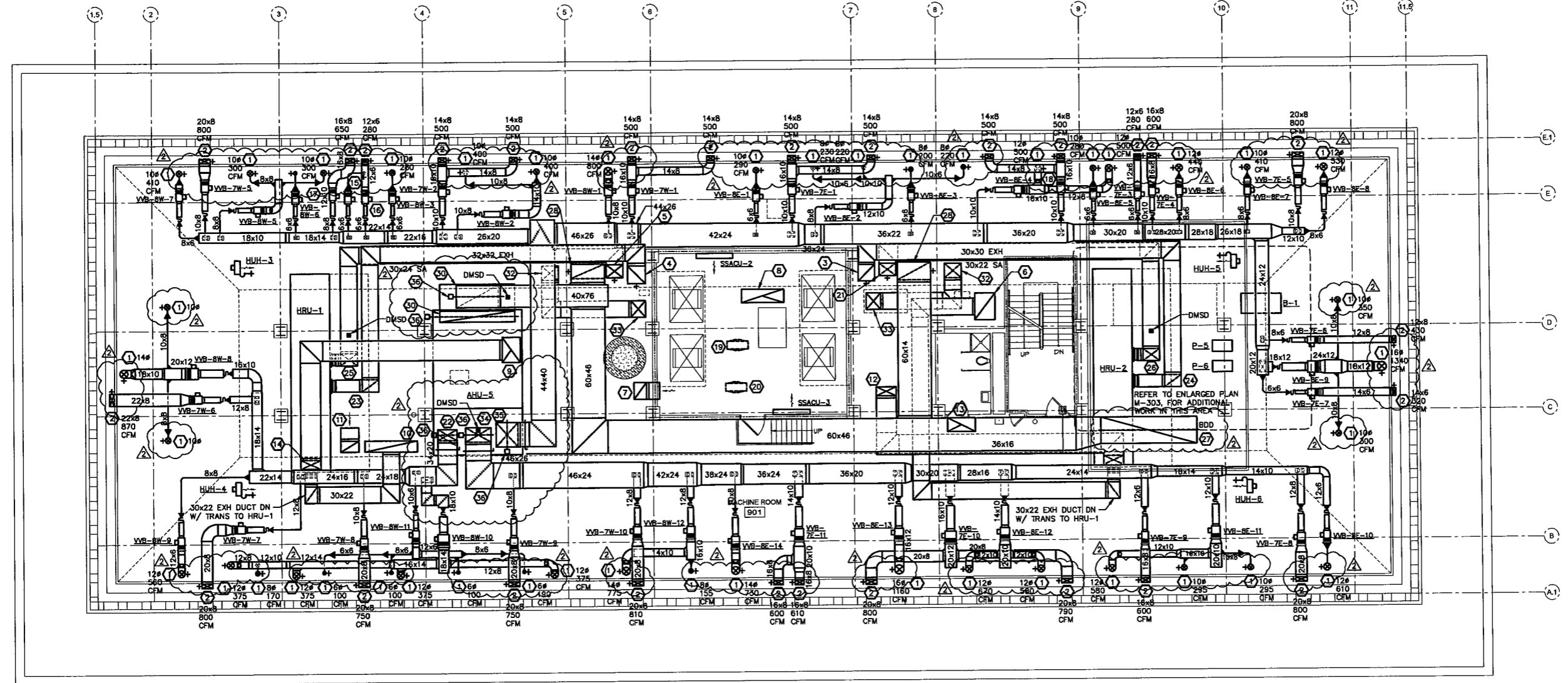
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EIGHTH FLOOR HVAC PLAN

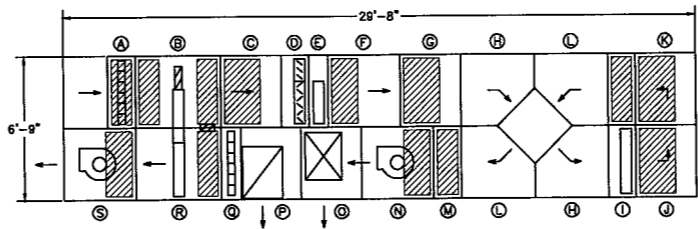
**M-108**

**NOTES THIS SHEET:**

- 1 SUPPLY AIR DUCT DN THRU FLOOR TO 8TH FLOOR BELOW. SIZE AS INDICATED.
- 2 SUPPLY AIR DUCT DN THRU EXTERIOR WALL CHASE TO 7TH FLOOR. SIZE AS INDICATED.
- 3 30"x30" EXHAUST DUCT FROM BELOW, 6270 CFM.
- 4 32"x32" EXHAUST DUCT FROM BELOW, 7950 CFM.
- 5 30"x24" SUPPLY AIR RISER FROM HEAT RECOVERY UNIT AND DOWN THRU BUILDING.
- 6 40"x53" DUCT UP THRU EXISTING ROOF PENETRATION TO EXHAUST GRV ABOVE ON ROOF, 5215 CFM.
- 7 29"x22" DUCT UP THRU EXISTING ROOF PENETRATION TO EXHAUST GRV ABOVE ON ROOF, (FOR ELEV. MACH. ROOM VENT.)
- 8 72"x24" DUCT UP THRU EXISTING ROOF PENETRATION TO OA GRV ABOVE ON ROOF, (FOR ELEV. MACH. ROOM VENT.)
- 9 48"x36" OA DUCT UP THRU EXISTING ROOF PENETRATION TO OA GRV ABOVE ON ROOF, (6170 CFM)
- 10 96"x24" DUCT UP THRU EXISTING ROOF PENETRATION TO EXHAUST GRV ABOVE ON ROOF, (6170 CFM.)
- 11 32"x20" DUCT UP THRU EXISTING ROOF PENETRATION TO EXHAUST FAN, EF-3, ABOVE ON ROOF, (4,000 CFM FOR MECH. ROOM VENT.)
- 12 36"x16" OA DUCT UP THRU EXISTING ROOF PENETRATION TO OA GRV ABOVE ON ROOF, (5215 CFM)
- 13 48"x24" OA DUCT UP THRU EXISTING ROOF PENETRATION TO OA GRV ABOVE ON ROOF, (4,000 CFM FOR MECH. ROOM VENT.)
- 14 36"x16" OA DUCT DOWN TO HRU-1, (6170 CFM)
- 15 VVR-8W-4
- 16 VVR-7W-3
- 17 VVR-7W-4
- 18 VVR-7E-2
- 19 OUTLINE OF SSRCU-2 ABOVE ON ROOF.
- 20 OUTLINE OF SSRCU-3 ABOVE ON ROOF.
- 21 30"x22" SUPPLY AIR RISER FROM HEAT RECOVERY UNIT AND DOWN THRU BUILDING.
- 22 34"x20" SUPPLY AIR DUCT W/ VCD UP FROM AHU-5 BELOW.
- 23 30"x30" EXHAUST DUCT W/ TRANS DN TO HRU-1
- 24 32"x32" EXHAUST DUCT W/ TRANS DN TO HRU-2
- 25 30"x24" SUPPLY AIR DUCT W/ TRANS UP FROM HRU-1
- 26 30"x22" SUPPLY AIR DUCT W/ TRANS UP FROM HRU-2
- 27 60"x46" RELIEF DUCT W/ TRANS DN FROM GRV ABOVE W/ BDD
- 28 60"x14" RETURN DUCT FROM BELOW, 16040 CFM.
- 29 60"x16" RETURN DUCT FROM BELOW, 19360 CFM.
- 30 136"x20" OA DUCT DN W/ TRANS FROM GRV ON ROOF ABV
- 31 40"x76" RETURN DUCT DN W/ TRANS TO AHU-5
- 32 30"x26" STAIR PRESSURIZATION DUCT DN IN CHASE
- 33 30"x26" STAIR PRESSURIZATION DUCT DN FROM FAN ON ROOF. ALL DUCT TO BE IN 2-HOUR FIRE RATED ENCLOSURE.
- 34 46"x24" SUPPLY AIR DUCT W/ VCD UP FROM AHU-5 BELOW.
- 35 44"x40" SUPPLY AIR DUCT W/ VCD UP FROM AHU-5 BELOW.
- 36 U/L LISTED SMOKE DAMPER FOR AHU ISOLATION



**1 MACHINE ROOM HVAC PLAN**  
M-109 1/8" = 1'-0"



- NOTES:**
- 1. HATCHED AREAS INDICATE ACCESS DOOR LOCATIONS (TYP)
  - 2. REFER TO UNIT SCHEDULE FOR CAPACITIES
  - 3. UNIT TO SUPPLY 75°F AIR AT 50% RELATIVE HUMIDITY YEAR-ROUND

**HEAT RECOVERY UNIT DETAIL**  
N.T.S.

- HEAT RECOVERY UNIT SECTIONS (IN DIRECTION OF AIRFLOW)**
- |                                               |                                         |
|-----------------------------------------------|-----------------------------------------|
| <b>OUTSIDE AIR/SUPPLY SIDE</b>                | <b>EXHAUST/RETURN SIDE</b>              |
| (A) OA MERV 13 FILTER                         | (P) AIR MIXING W/ HORIZONTAL CONNECTION |
| (B) ENERGY RECOVERY WHEEL                     | (Q) FILTER                              |
| (C) ACCESS/TURNING                            | (R) ENERGY RECOVERY WHEEL               |
| (D) FACE & BYPASS DAMPERS                     | (S) EXHAUST FAN                         |
| (E) HOT WATER HEATING COIL                    |                                         |
| (F) ACCESS/TURNING                            |                                         |
| (G) ACCESS/TURNING                            |                                         |
| (H) PLATE TYPE HEAT EXCHANGER                 |                                         |
| (I) CHILLED WATER COOLING COIL                |                                         |
| (J) ACCESS/TURNING                            |                                         |
| (K) ACCESS/TURNING                            |                                         |
| (L) PLATE TYPE HEAT EXCHANGER                 |                                         |
| (M) ACCESS/TURNING                            |                                         |
| (N) SUPPLY FAN                                |                                         |
| (O) DISCHARGE PLENUM W/ HORIZONTAL CONNECTION |                                         |

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412.391.1 57 FX  
WWW.PWVGARCH.COM

CIL ENGINEERING

222 Beaver Street  
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PH: (412) 896-1811 FAX: (412) 896-8758  
E-MAIL: CIL@CIL-PA.COM

PWVG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

**WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION**

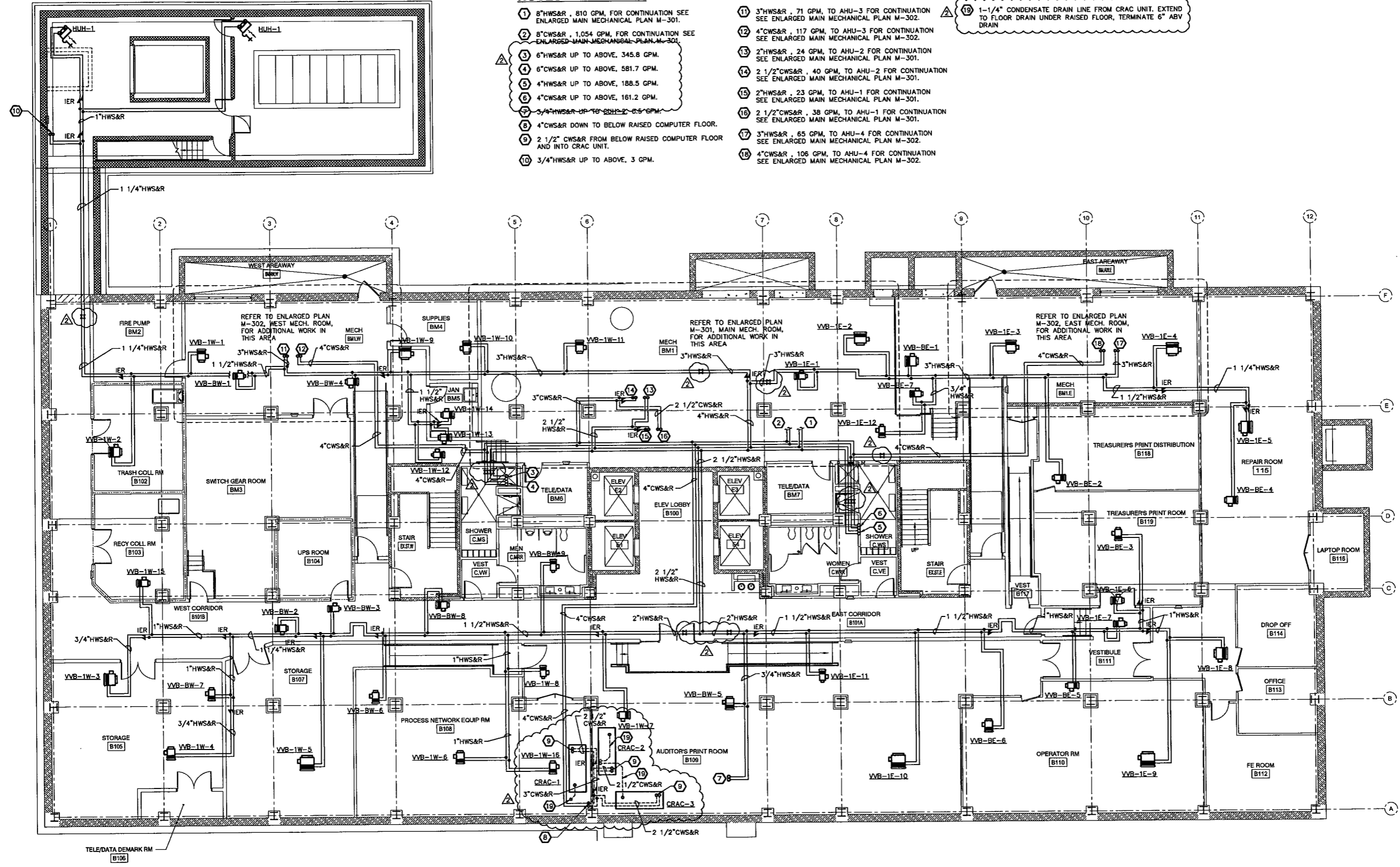
1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

**M-109**

**NOTES THIS SHEET:**

- ① 8" HWS&R, 810 GPM, FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-301.
- ② 8" CWS&R, 1,054 GPM, FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-301.
- ③ 6" HWS&R UP TO ABOVE, 345.8 GPM.
- ④ 6" CWS&R UP TO ABOVE, 581.7 GPM.
- ⑤ 4" HWS&R UP TO ABOVE, 188.5 GPM.
- ⑥ 4" CWS&R UP TO ABOVE, 161.2 GPM.
- ⑦ 3/4" HWS&R UP TO ABOVE, 65 GPM.
- ⑧ 4" CWS&R DOWN TO BELOW RAISED COMPUTER FLOOR.
- ⑨ 2 1/2" CWS&R FROM BELOW RAISED COMPUTER FLOOR AND INTO CRAC UNIT.
- ⑩ 3/4" HWS&R UP TO ABOVE, 3 GPM.
- ⑪ 3" HWS&R, 71 GPM, TO AHU-3 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-302.
- ⑫ 4" CWS&R, 117 GPM, TO AHU-3 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-302.
- ⑬ 2" HWS&R, 24 GPM, TO AHU-2 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-301.
- ⑭ 2 1/2" CWS&R, 40 GPM, TO AHU-2 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-301.
- ⑮ 2" HWS&R, 23 GPM, TO AHU-1 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-301.
- ⑯ 2 1/2" CWS&R, 38 GPM, TO AHU-1 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-301.
- ⑰ 3" HWS&R, 65 GPM, TO AHU-4 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-302.
- ⑱ 4" CWS&R, 106 GPM, TO AHU-4 FOR CONTINUATION SEE ENLARGED MAIN MECHANICAL PLAN M-302.

⑲ 1-1/4" CONDENSATE DRAIN LINE FROM CRAC UNIT. EXTEND TO FLOOR DRAIN UNDER RAISED FLOOR, TERMINATE 6" ABV DRAIN



1 BASEMENT HVAC PLAN - PIPING  
M-200 1/8" = 1'-0"

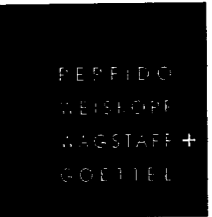
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ADDENDUM #2 DECEMBER 8, 2010

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OFFICE BUILDING NO. 3  
RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

BASEMENT HVAC PLAN - PIPING

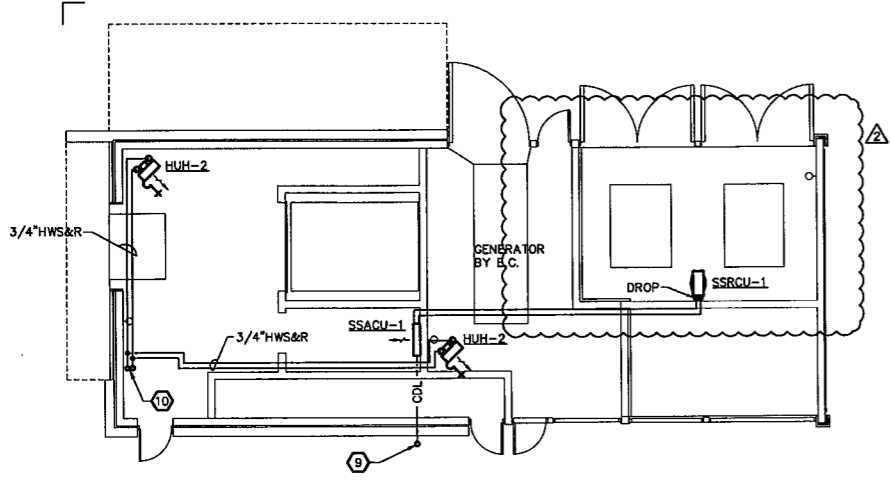
M-200



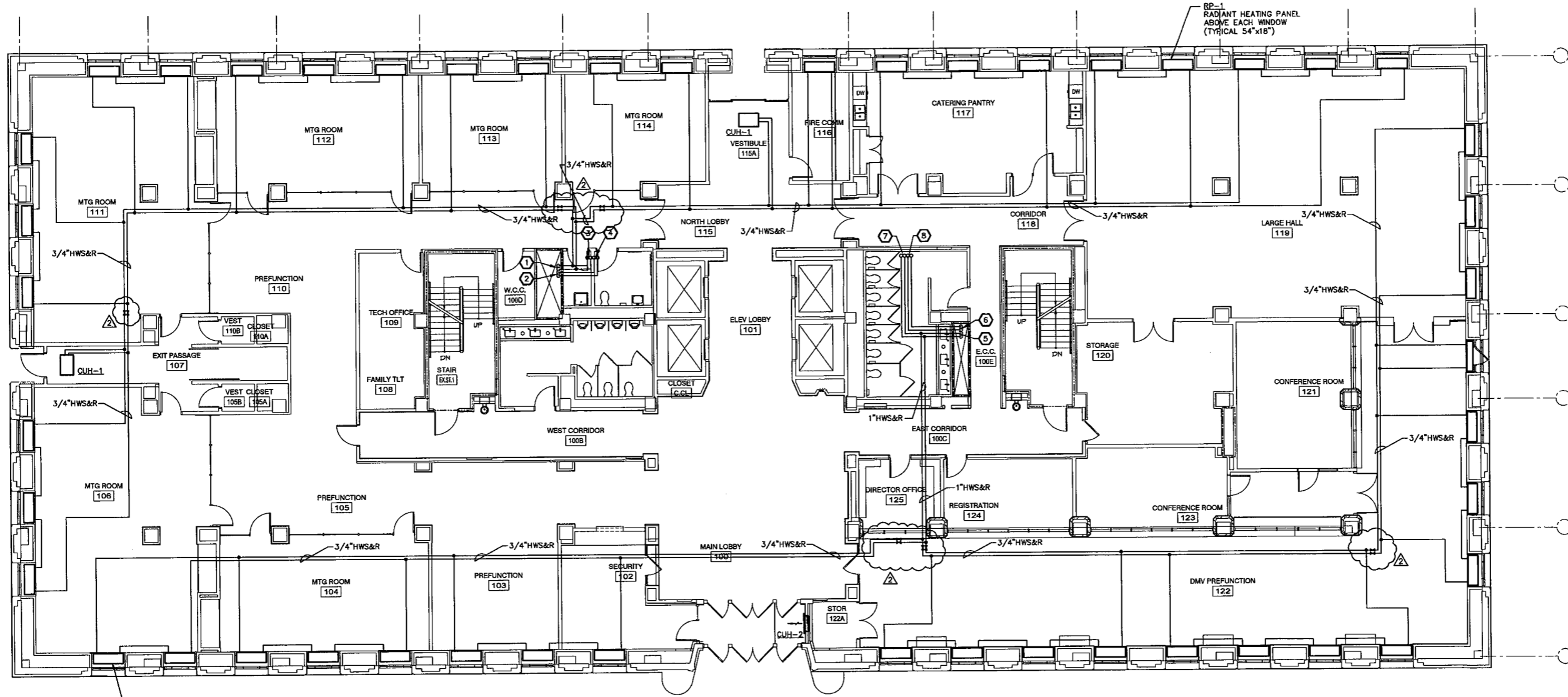
4 BOULEVARD OF THE ALLIES  
 PITTSBURGH, PA 15219-13 1  
 412.391.2 4 PH  
 412.391.1 57 FX  
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355 Beaver Street  
 Johnstown, PA 15139-1888  
 PH: (412) 836-1881 FAX: (412) 836-0722  
 CIL Project 997-008



- NOTES THIS SHEET,**
- 1 6" HWS&R FROM BELOW, 345.8 GPM.
  - 2 6" CWS&R FROM BELOW, 581.7 GPM.
  - 3 6" HWS&R UP TO ABOVE, 345.8 GPM.
  - 4 6" CWS&R UP TO ABOVE, 581.7 GPM.
  - 5 4" HWS&R UP FROM BELOW, 188.5 GPM.
  - 6 4" CWS&R UP FROM BELOW, 161.2 GPM.
  - 7 4" HWS&R UP TO ABOVE, 183.9 GPM.
  - 8 4" CWS&R UP TO ABOVE, 161.2 GPM.
  - 9 CONDENSATE DRAIN LINE, (SIZE AS RECOMMENDED BY UNIT MANUFACTURER), EXTEND 6" BEYOND OUTSIDE OF BUILDING AND TURN DOWN WITH 6" LEG DOWN.
  - 10 3/4" HWS&R FROM BELOW, 3 GPM.



RP-1  
 RADIANT HEATING PANEL  
 ABOVE EACH WINDOW  
 (TYPICAL 54"x18")

1  
 M-201 1/8" = 1'-0"  
**FIRST FLOOR HVAC PLAN - PIPING**

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**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

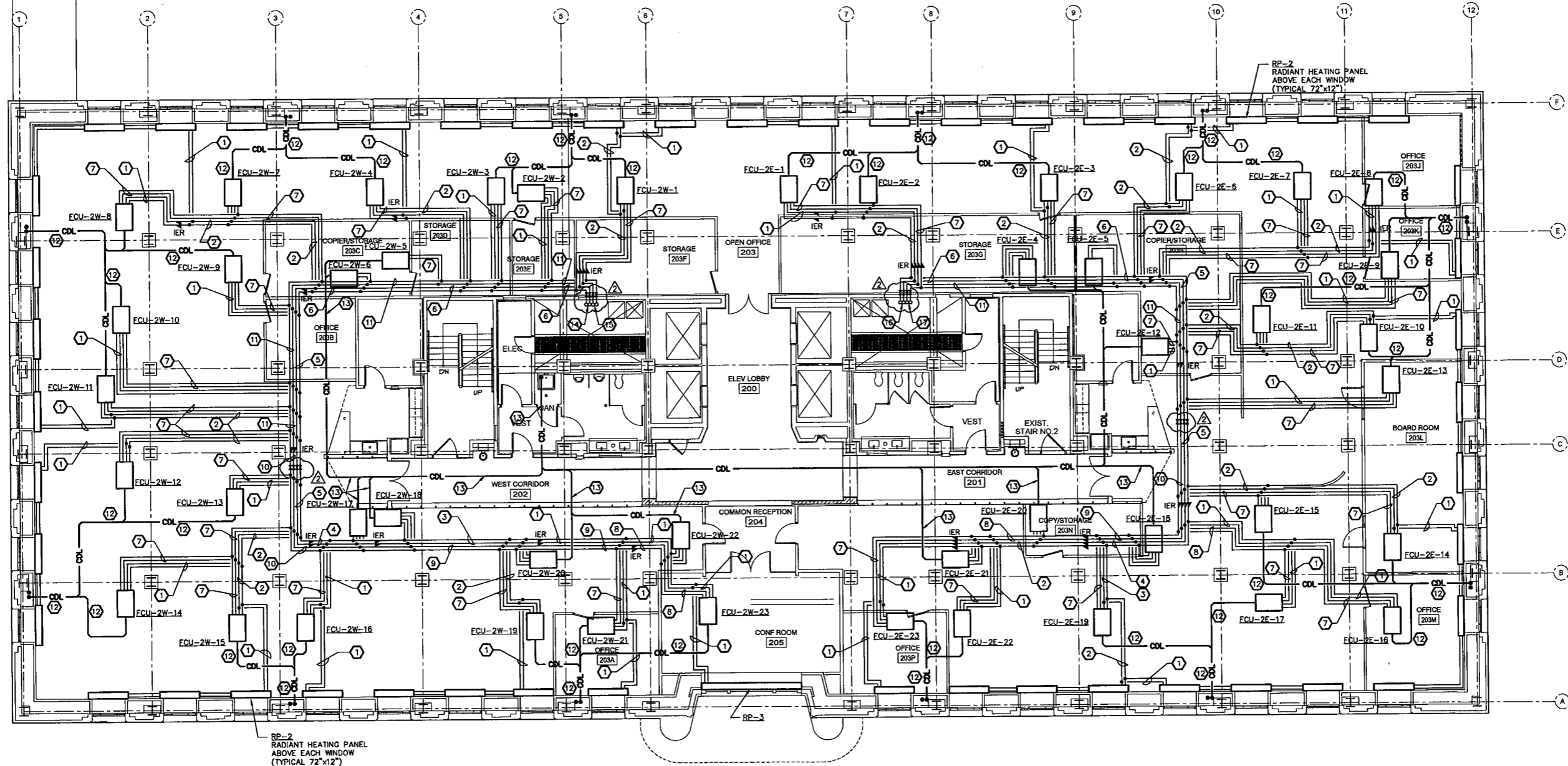
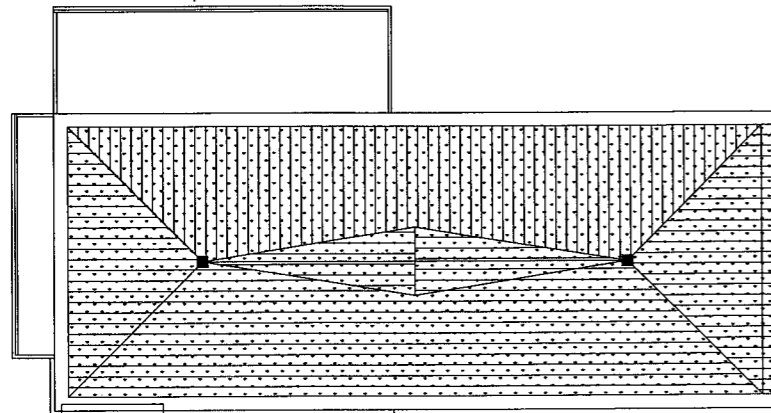
1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

FIRST FLOOR HVAC PLAN -  
 PIPING

**M-201**

**NOTES THIS SHEET.**

- ① 3/4" HOT WATER SUPPLY AND RETURN
- ② 1" HOT WATER SUPPLY AND RETURN
- ③ 1 1/4" HOT WATER SUPPLY AND RETURN
- ④ 1 1/2" HOT WATER SUPPLY AND RETURN
- ⑤ 2" HOT WATER SUPPLY AND RETURN
- ⑥ 2 1/2" HOT WATER SUPPLY AND RETURN
- ⑦ 3/4" CHILLED WATER SUPPLY AND RETURN
- ⑧ 1" CHILLED WATER SUPPLY AND RETURN
- ⑨ 1 1/4" CHILLED WATER SUPPLY AND RETURN
- ⑩ 1 1/2" CHILLED WATER SUPPLY AND RETURN
- ⑪ 2" CHILLED WATER SUPPLY AND RETURN
- ⑫ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE INTO PRIMARY RAIN WATER CONDUCTOR.
- ⑬ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE 6" ABOVE JANITOR SINK.
- ⑭ 6" HWS&R FROM BELOW, 340 GPM AND 6" HWS&R UP TO ABOVE, 332.4 GPM.
- ⑮ 6" CWS&R FROM BELOW, 581.7 GPM AND 6" CWS&R UP TO ABOVE, 547.6 GPM.
- ⑯ 4" HWS&R FROM BELOW, 185.9 GPM AND 4" HWS&R UP TO ABOVE, 155.2 GPM.
- ⑰ 4" CWS&R FROM BELOW, 161.2 GPM AND 4" CWS&R UP TO ABOVE, 131.9 GPM.



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OFFICE BUILDING NO.3  
RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

SECOND FLOOR HVAC PLAN -  
PIPING

**1 SECOND FLOOR HVAC PLAN - PIPING**  
M-202 1/8" = 1'-0"

**M-202**



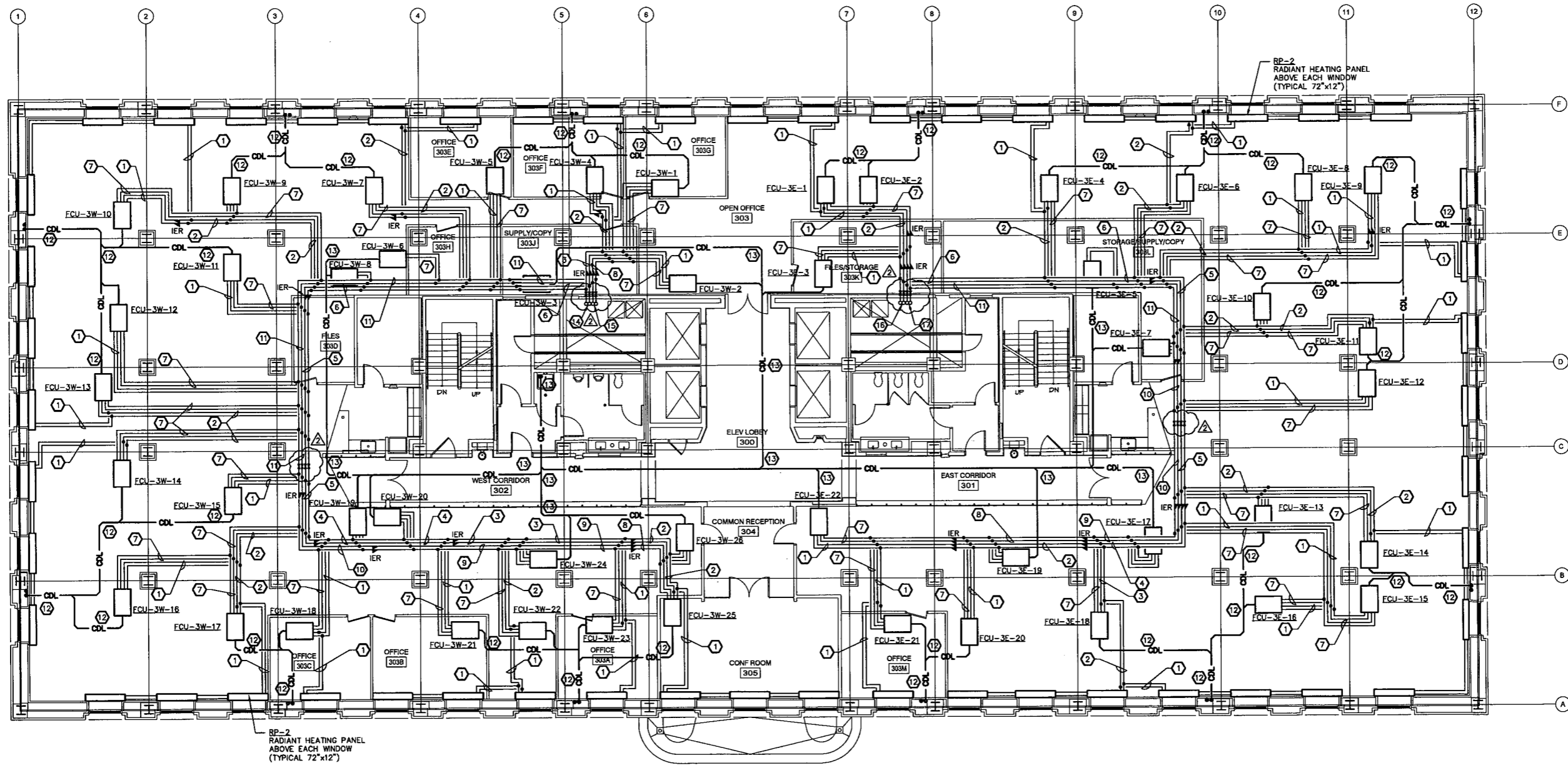
4 BOULEVARD OF THE ALLIES  
 PITTSBURGH, PA 15219-13 1  
 412.391.2 4 PH  
 412.391.1 57 FX  
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CL ENGINEERING  
 528 Bureau Blvd  
 Salt Lake City, UT 84143-1242  
 ph: (801) 466-1241 fax: (801) 466-0728  
 CL Project #07-006

**NOTES THIS SHEET:**

- ① 3/4" HOT WATER SUPPLY AND RETURN
- ② 1" HOT WATER SUPPLY AND RETURN
- ③ 1 1/4" HOT WATER SUPPLY AND RETURN
- ④ 1 1/2" HOT WATER SUPPLY AND RETURN
- ⑤ 2" HOT WATER SUPPLY AND RETURN
- ⑥ 2 1/2" HOT WATER SUPPLY AND RETURN
- ⑦ 3/4" CHILLED WATER SUPPLY AND RETURN
- ⑧ 1" CHILLED WATER SUPPLY AND RETURN
- ⑨ 1 1/4" CHILLED WATER SUPPLY AND RETURN
- ⑩ 1 1/2" CHILLED WATER SUPPLY AND RETURN
- ⑪ 2" CHILLED WATER SUPPLY AND RETURN
- ⑫ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE INTO PRIMARY RAIN WATER CONDUCTOR.
- ⑬ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE 6" ABOVE JANITOR SINK.
- ⑭ 6" HWS&R FROM BELOW, 312.4 GPM AND 6" HWS&R UP TO ABOVE, 279.0 GPM.
- ⑮ 6" CWS&R FROM BELOW, 547.6 GPM AND 6" CWS&R UP TO ABOVE, 513 GPM.
- ⑯ 4" HWS&R FROM BELOW, 155.2 GPM AND 4" HWS&R UP TO ABOVE, 128.7 GPM.
- ⑰ 4" CWS&R FROM BELOW, 131.9 GPM AND 4" CWS&R UP TO ABOVE, 102.7 GPM.



**1 THIRD FLOOR HVAC PLAN - PIPING**  
 M-203 1/8" = 1'-0"

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 ADDENDUM #2 DECEMBER 8, 2010

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 OFFICE BUILDING NO.3  
 RENOVATION**

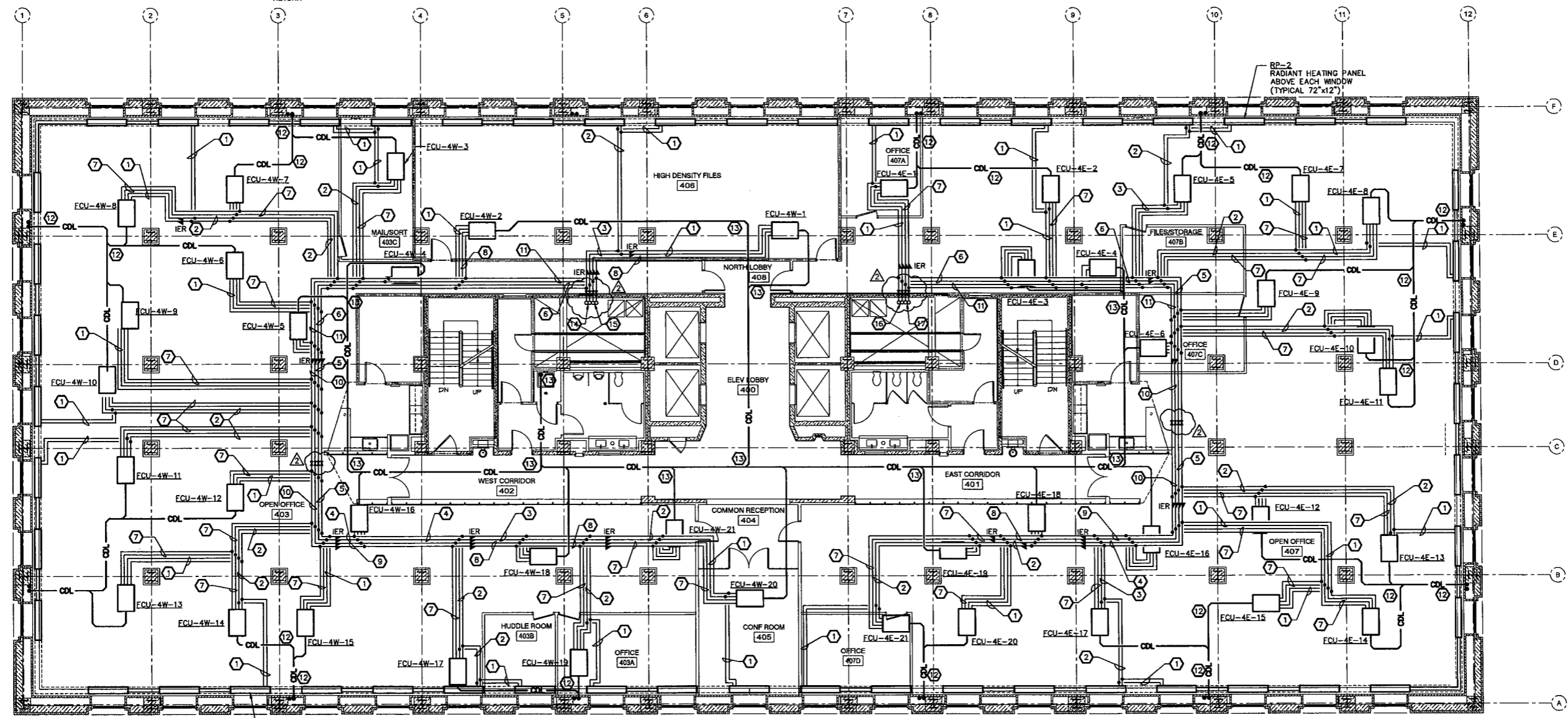
1800 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

THIRD FLOOR HVAC PLAN - PIPING

**M-203**

**NOTES THIS SHEET:**

- ① 3/4" HOT WATER SUPPLY AND RETURN
- ② 1" HOT WATER SUPPLY AND RETURN
- ③ 1 1/4" HOT WATER SUPPLY AND RETURN
- ④ 1 1/2" HOT WATER SUPPLY AND RETURN
- ⑤ 2" HOT WATER SUPPLY AND RETURN
- ⑥ 2 1/2" HOT WATER SUPPLY AND RETURN
- ⑦ 3/4" CHILLED WATER SUPPLY AND RETURN
- ⑧ 1" CHILLED WATER SUPPLY AND RETURN
- ⑨ 1 1/4" CHILLED WATER SUPPLY AND RETURN
- ⑩ 1 1/2" CHILLED WATER SUPPLY AND RETURN
- ⑪ 2" CHILLED WATER SUPPLY AND RETURN
- ⑫ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE INTO PRIMARY RAIN WATER CONDUCTOR.
- ⑬ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE 6" ABOVE JANITOR SINK.
- ⑭ 6" HWS&R FROM BELOW, 279.9 GPM AND 6" HWS&R UP TO ABOVE, 244.5 GPM
- ⑮ 6" CWS&R FROM BELOW, 513 GPM AND 6" CWS&R UP TO ABOVE, 481.4 GPM
- ⑯ 4" HWS&R FROM BELOW, 128.7 GPM AND 4" HWS&R UP TO ABOVE, 103.6 GPM.
- ⑰ 4" CWS&R FROM BELOW, 102.7 GPM AND 3" CWS&R UP TO ABOVE, 75.4 GPM.



PWVG PROJECT NO. 20703.00  
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ADDENDUM #2 DECEMBER 8, 2010

WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

FOURTH FLOOR HVAC PLAN -  
PIPING

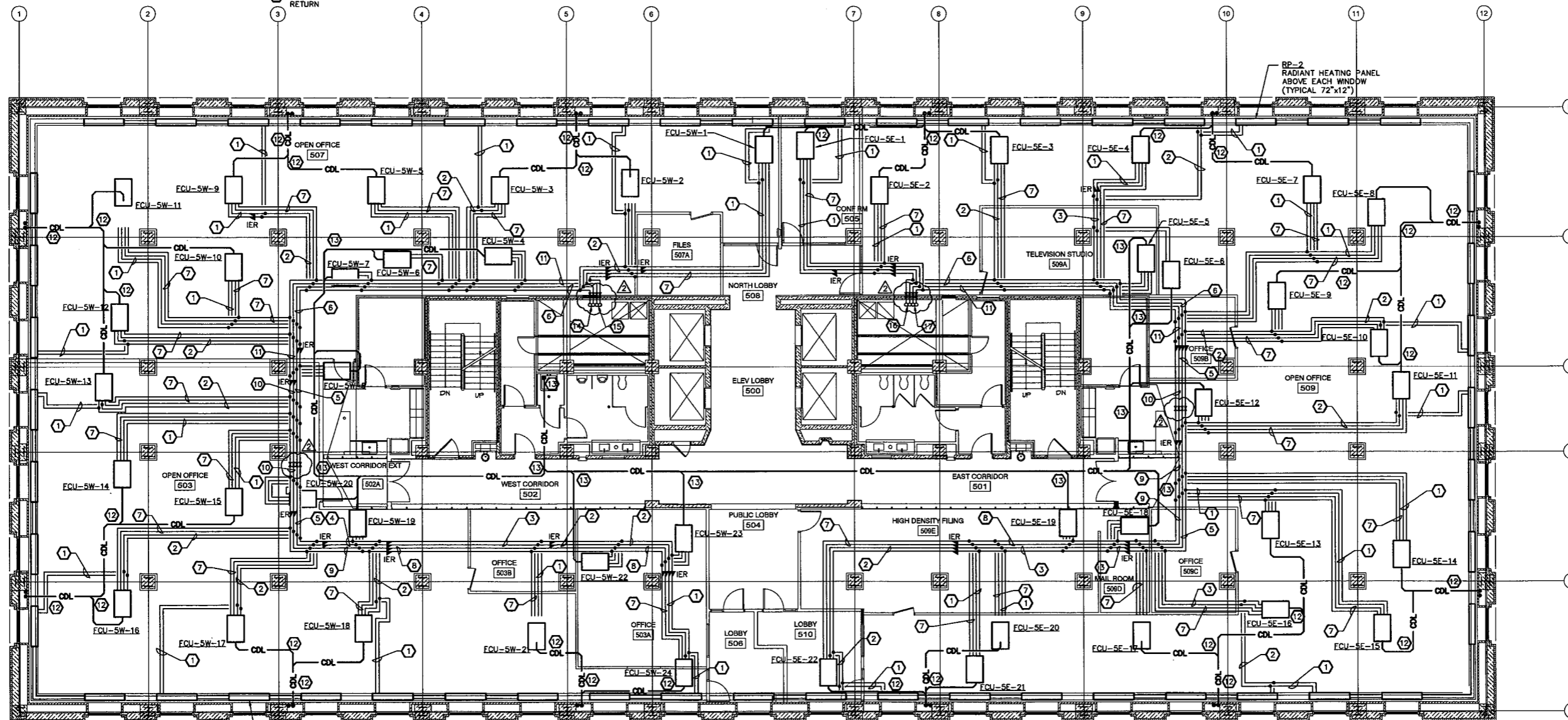
**1 FOURTH FLOOR HVAC PLAN - PIPING**  
M-204 1/8" = 1'-0"



4 BOULEVARD OF THE ALLIES  
 PITTSBURGH, PA 15219-13 1  
 412.391.2 4 PH  
 412.391.1 57 FX  
 WWW.PFWGARCH.COM

**NOTES THIS SHEET:**

- ① 3/4" HOT WATER SUPPLY AND RETURN
- ② 1" HOT WATER SUPPLY AND RETURN
- ③ 1 1/4" HOT WATER SUPPLY AND RETURN
- ④ 1 1/2" HOT WATER SUPPLY AND RETURN
- ⑤ 2" HOT WATER SUPPLY AND RETURN
- ⑥ 2 1/2" HOT WATER SUPPLY AND RETURN
- ⑦ 3/4" CHILLED WATER SUPPLY AND RETURN
- ⑧ 1" CHILLED WATER SUPPLY AND RETURN
- ⑨ 1 1/4" CHILLED WATER SUPPLY AND RETURN
- ⑩ 1 1/2" CHILLED WATER SUPPLY AND RETURN
- ⑪ 2" CHILLED WATER SUPPLY AND RETURN
- ⑫ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE INTO PRIMARY RAIN WATER CONDUCTOR.
- ⑬ TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE 6" ABOVE JANITOR SINK.
- ⑭ 6" HWS&R FROM BELOW, 244.6 GPM AND 4" HWS&R UP TO ABOVE, 206.1 GPM.
- ⑮ 6" CWS&R FROM BELOW, 481.4 GPM AND 6" CWS&R UP TO ABOVE, 447.3 GPM.
- ⑯ 4" HWS&R FROM BELOW, 103.6 GPM AND 3" HWS&R UP TO ABOVE, 72.3 GPM.
- ⑰ 3" CWS&R FROM BELOW, 75.4 GPM AND 2 1/2" CWS&R UP TO ABOVE, 48.6 GPM.



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**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

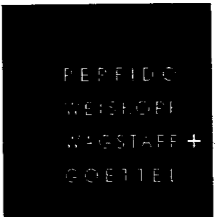
1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

FIFTH FLOOR HVAC PLAN -  
 PIPING

**1 FIFTH FLOOR HVAC PLAN - PIPING**  
 M-205 1/8" = 1'-0"

**M-205**

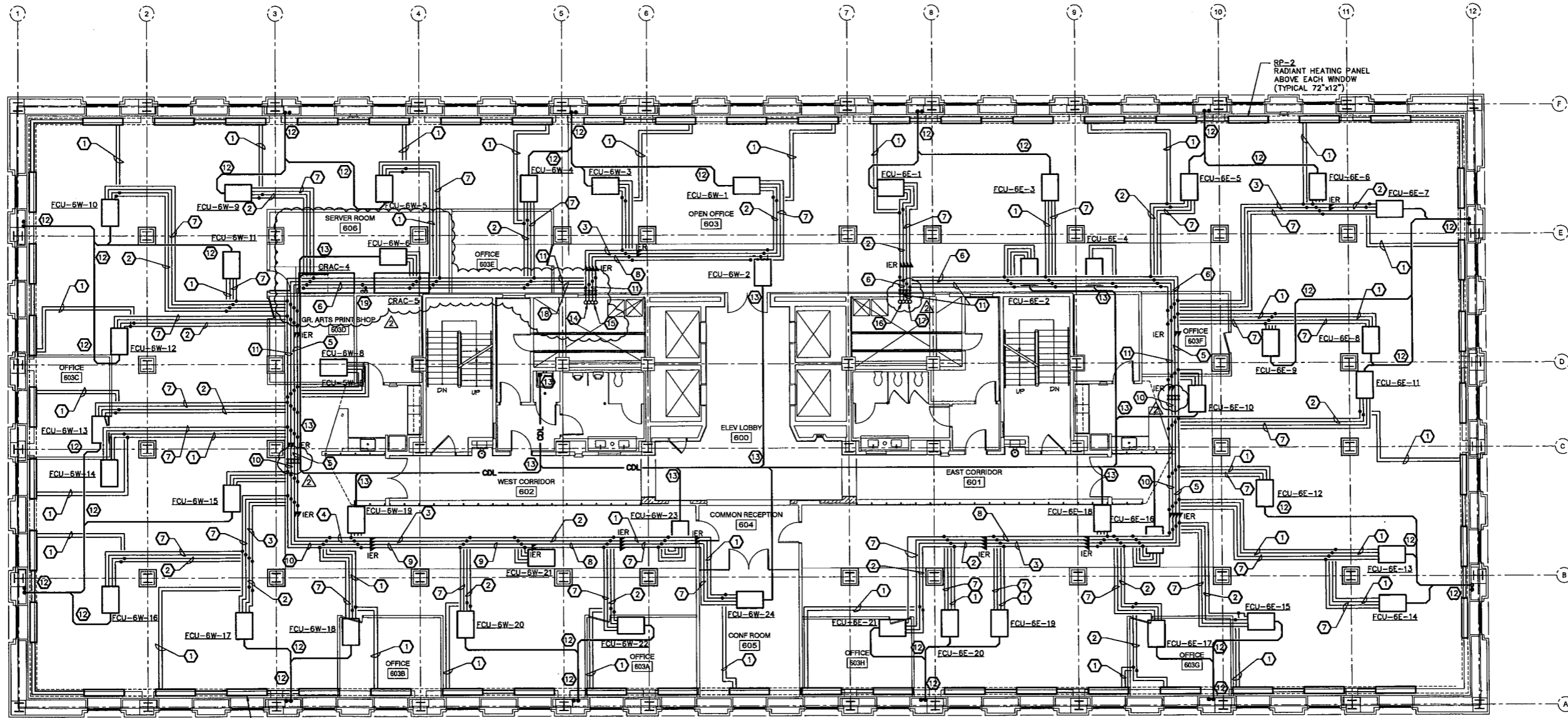




4 BOULEVARD OF THE ALLIES  
 PITTSBURGH, PA 15219-13 1  
 412.391.2 4 PH  
 412.391.1 57 FX  
 WWW.PWWGARCH.COM

**NOTES THIS SHEET:**

- 1 3/4" HOT WATER SUPPLY AND RETURN
- 2 1" HOT WATER SUPPLY AND RETURN
- 3 1 1/4" HOT WATER SUPPLY AND RETURN
- 4 1 1/2" HOT WATER SUPPLY AND RETURN
- 5 2" HOT WATER SUPPLY AND RETURN
- 6 2 1/2" HOT WATER SUPPLY AND RETURN
- 7 3/4" CHILLED WATER SUPPLY AND RETURN
- 8 1" CHILLED WATER SUPPLY AND RETURN
- 9 1 1/4" CHILLED WATER SUPPLY AND RETURN
- 10 1 1/2" CHILLED WATER SUPPLY AND RETURN
- 11 2" CHILLED WATER SUPPLY AND RETURN
- 12 TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE INTO PRIMARY RAIN WATER CONDUCTOR.
- 13 TYPICAL 1 1/4" CONDENSATE DRAIN LINE FROM FAN COIL UNIT, TERMINATE 6" ABOVE JANITOR SINK.
- 14 4" HWS&R FROM BELOW, 206.1 GPM AND 4" HWS&R UP TO ABOVE, 168.8 GPM.
- 15 6" CWS&R FROM BELOW, 447.3 GPM AND 6" CWS&R UP TO ABOVE, 271.5 GPM.
- 16 3" HWS&R FROM BELOW, 72.3 GPM AND 2 1/2" HWS&R UP TO ABOVE, 41.3 GPM.
- 17 2 1/2" CWS&R FROM BELOW, 48.6 GPM AND 1 1/2" CWS&R UP TO ABOVE, 18.8 GPM.
- 18 4" CHILLED WATER SUPPLY AND RETURN
- 19 4" CHILLED WATER SUPPLY AND RETURN DROP TO CRAC-4 & CRAC-5, EXTEND 2-1/2" CHILLED WATER SUPPLY AND RETURN TO EACH UNIT. EXTEND 1-1/2" CONDENSATE DRAIN LINE AS REQ'D.



PWWS PROJECT NO. 20703.00  
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WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION

1800 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

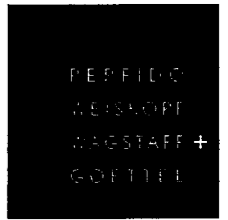
SIXTH FLOOR HVAC PLAN - PIPING

1 SIXTH FLOOR HVAC PLAN - PIPING  
 M-206 1/8" = 1'-0"

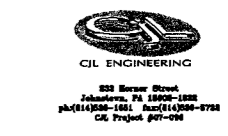
M-206

**NOTES THIS SHEET.**

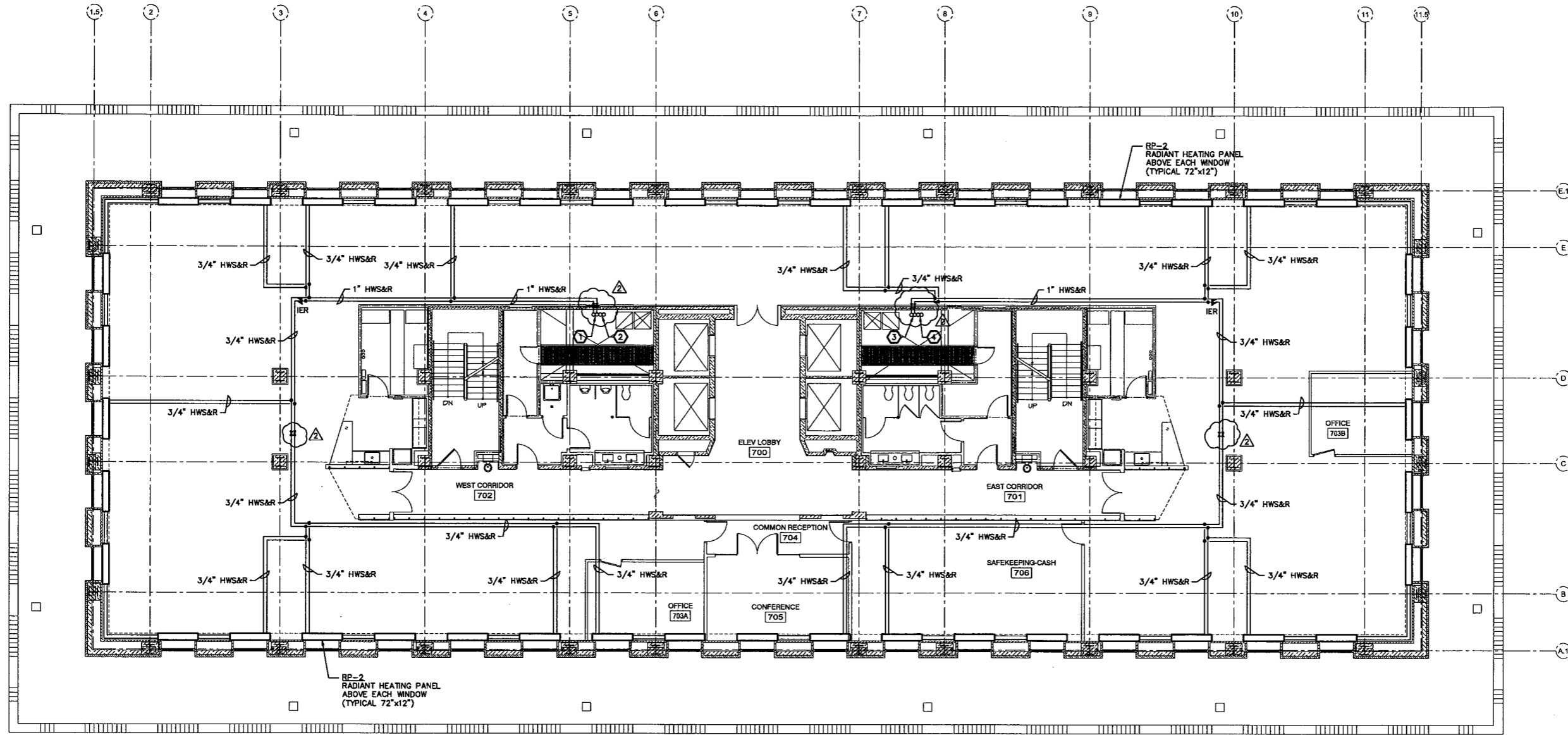
- ① 4" HWS&R FROM BELOW, 168.8 GPM AND 4" HWS&R UP TO ABOVE, 164.4 GPM.
- ② 6" CWS&R FROM BELOW, 271.5 GPM AND 6" CWS&R UP TO ABOVE, 271.5 GPM.
- ③ 2 1/2" HWS&R FROM BELOW, 41.3 GPM AND 2 1/2" HWS&R UP TO ABOVE, 36.5 GPM.
- ④ 1 1/2" CWS&R FROM BELOW, 18.9 GPM AND 1 1/2" CWS&R UP TO ABOVE, 18.9 GPM.



4 BOULEVARD OF THE ALLIES  
 PITTSBURGH, PA 15219-13 1  
 412.391.2 4 PH  
 412.391.1 57 FX  
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228 Beaver Street  
 Johnstown, PA 15022-1502  
 ph: (412) 548-1511 fax: (412) 548-2728  
 CA Project #07-026



1 SEVENTH FLOOR HVAC PLAN - PIPING  
 M-207 1/8" = 1'-0"

PWVG PROJECT NO. 20703.00  
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**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

SEVENTH FLOOR HVAC PLAN  
 - PIPING

**M-207**



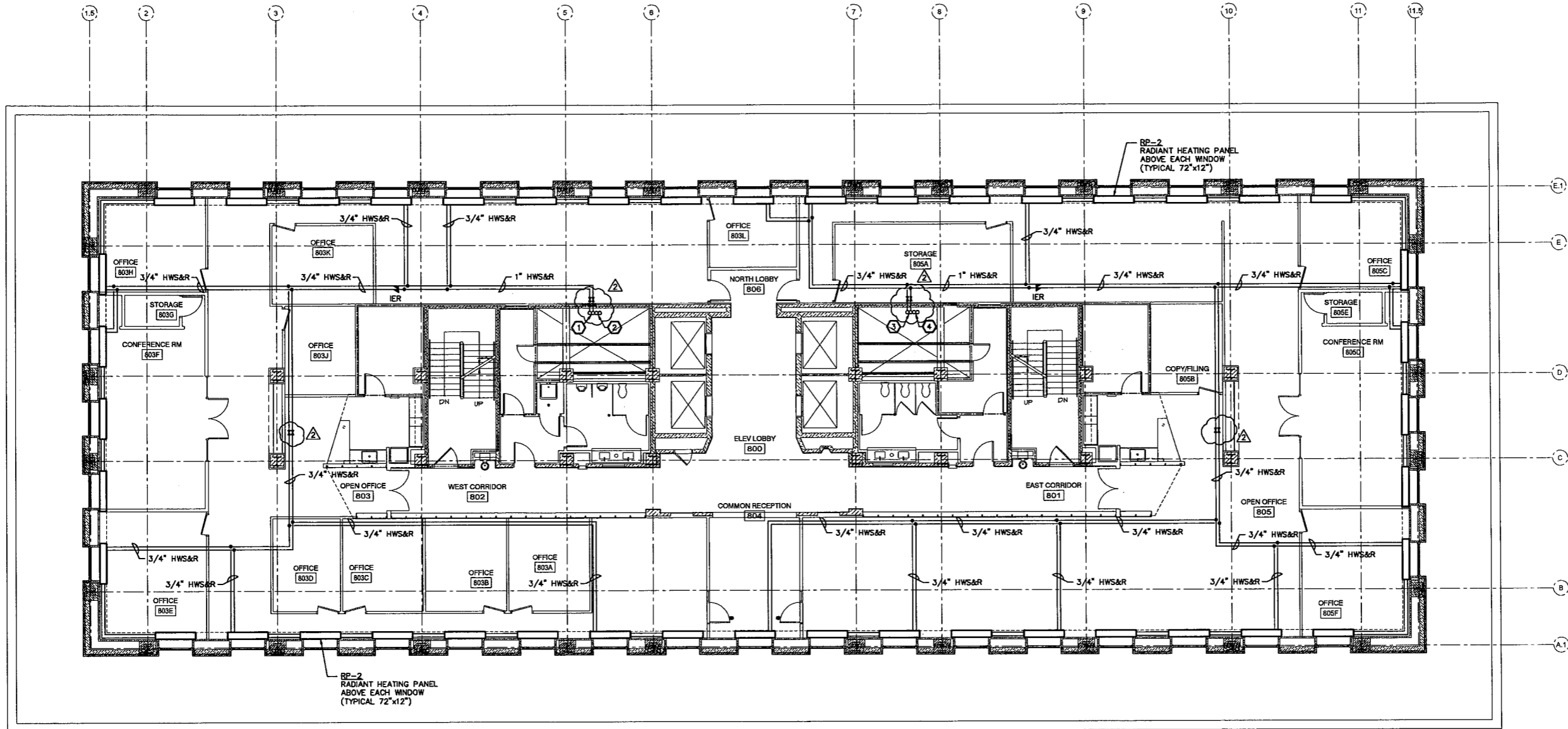
4 BOULEVARD OF THE ALLIES  
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 412.391.2 4 PH  
 412.391.1 57 FX  
 WWW.PWWGARCH.COM



QLE ENGINEERING  
 828 Korum Blvd  
 Johnstown, PA 15809-1882  
 PH: (412) 638-1181 FAX: (412) 638-8728  
 QLE Project #07-096

**NOTES THIS SHEET:**

- ① 4" HWS&R FROM BELOW, 164.4 GPM AND 4" HWS&R UP TO ABOVE, 160.2 GPM.
- ② 6" CWS&R FROM BELOW, 271.5 GPM AND 6" CWS&R UP TO ABOVE, 271.5 GPM.
- ③ 2 1/2" HWS&R FROM BELOW, 36.5 GPM AND 2" HWS&R UP TO ABOVE, 31.9 GPM.
- ④ 1 1/2" CWS&R FROM BELOW, 18.9 GPM AND 1 1/2" CWS&R UP TO ABOVE, 18.9 GPM.



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 100% CD SUBMISSION OCTOBER 8, 2010  
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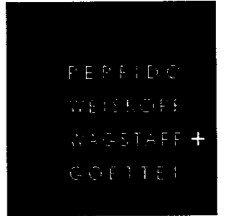
**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

EIGHTH FLOOR HVAC PLAN -  
 PIPING

**EIGHTH FLOOR HVAC PLAN - PIPING**  
 1/8" = 1'-0"

**M-208**



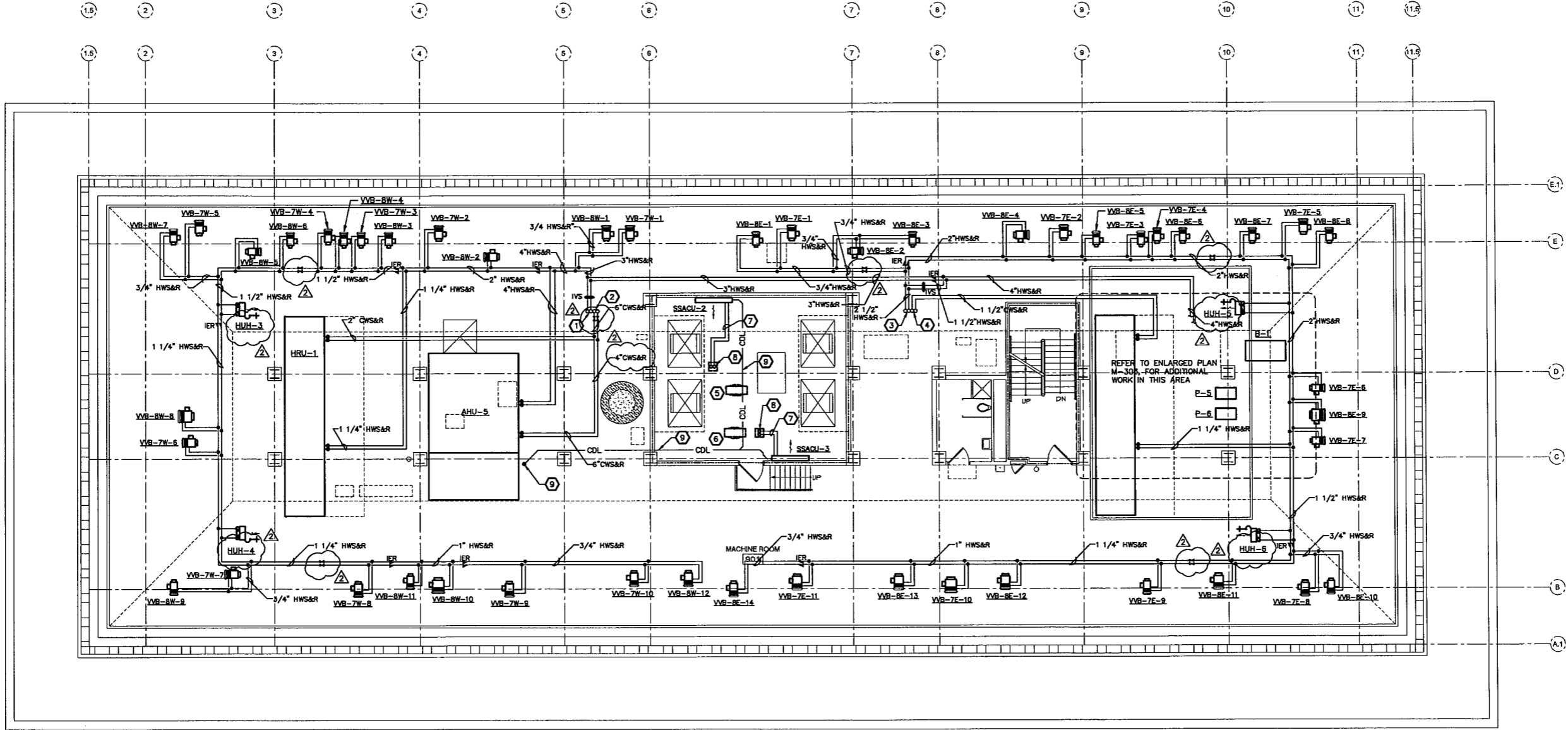
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 PITTSBURGH, PA 15219-13 1  
 412.391.2 4 PH  
 412.391.1 57 FX  
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228 Seward Street  
 Charleston, PA 15020-1808  
 PH: 412.391-1811 FAX: 412.391-1728  
 CA Proj. # 007-008

**NOTES THIS SHEET:**

- ① 4"HWS&R FROM BELOW, 160.2 GPM.
- ② 6"CWS&R FROM BELOW, 271.5 GPM.
- ③ 2 1/2"HWS&R FROM BELOW, 31.9 GPM.
- ④ 1 1/2"CWS&R FROM BELOW, 18.9 GPM.
- ⑤ OUTLINE OF SSRCU-2 ABOVE ON ROOF.
- ⑥ OUTLINE OF SSRCU-3 ABOVE ON ROOF.
- ⑦ REFRIGERANT PIPING, SIZE AS RECOMMENDED BY UNIT MANUFACTURER.
- ⑧ REFRIGERANT PIPING UP THROUGH PIPE PORTAL TO ROOF.
- ⑨ 1 1/4" CONDENSATE DRAIN LINE, TERMINATE 6" ABOVE FLOOR DRAIN.



1 MACHINE ROOM HVAC PLAN - PIPING  
 W-209 1/8" = 1'-0"

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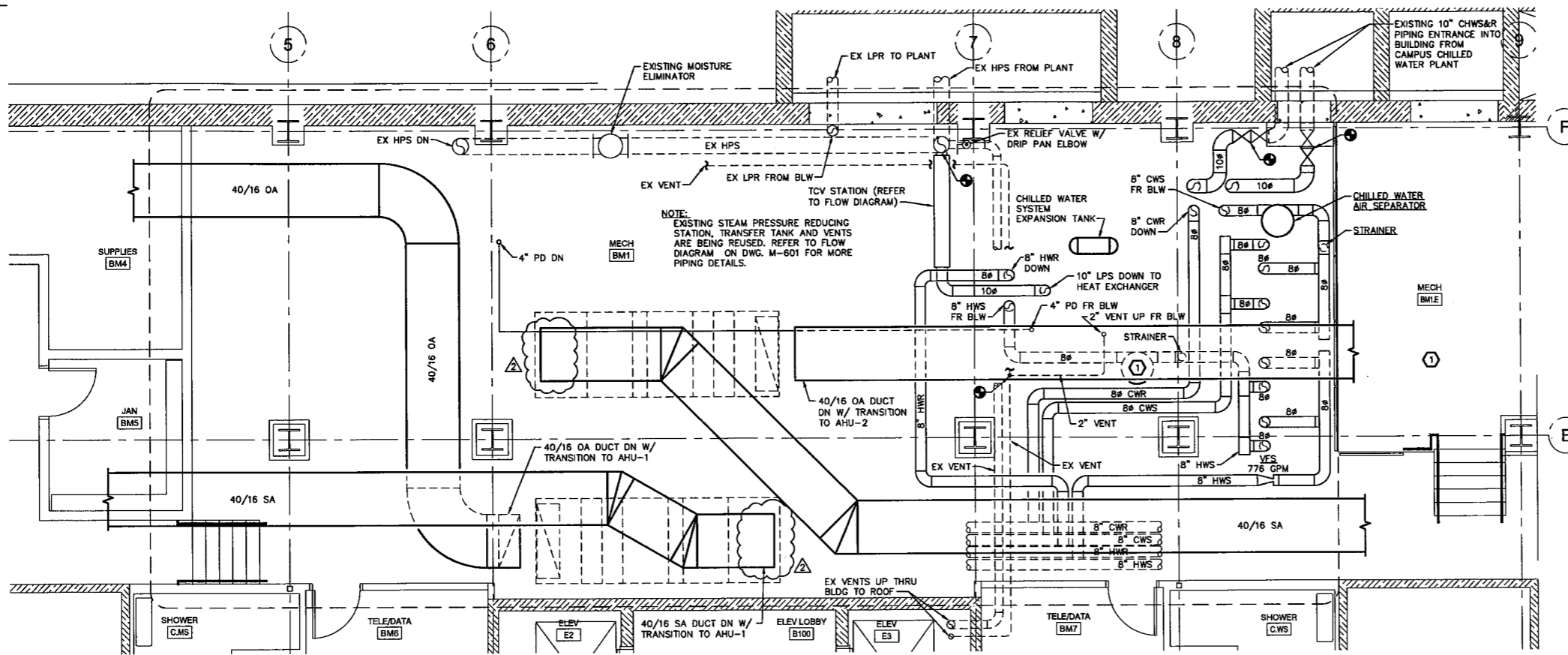
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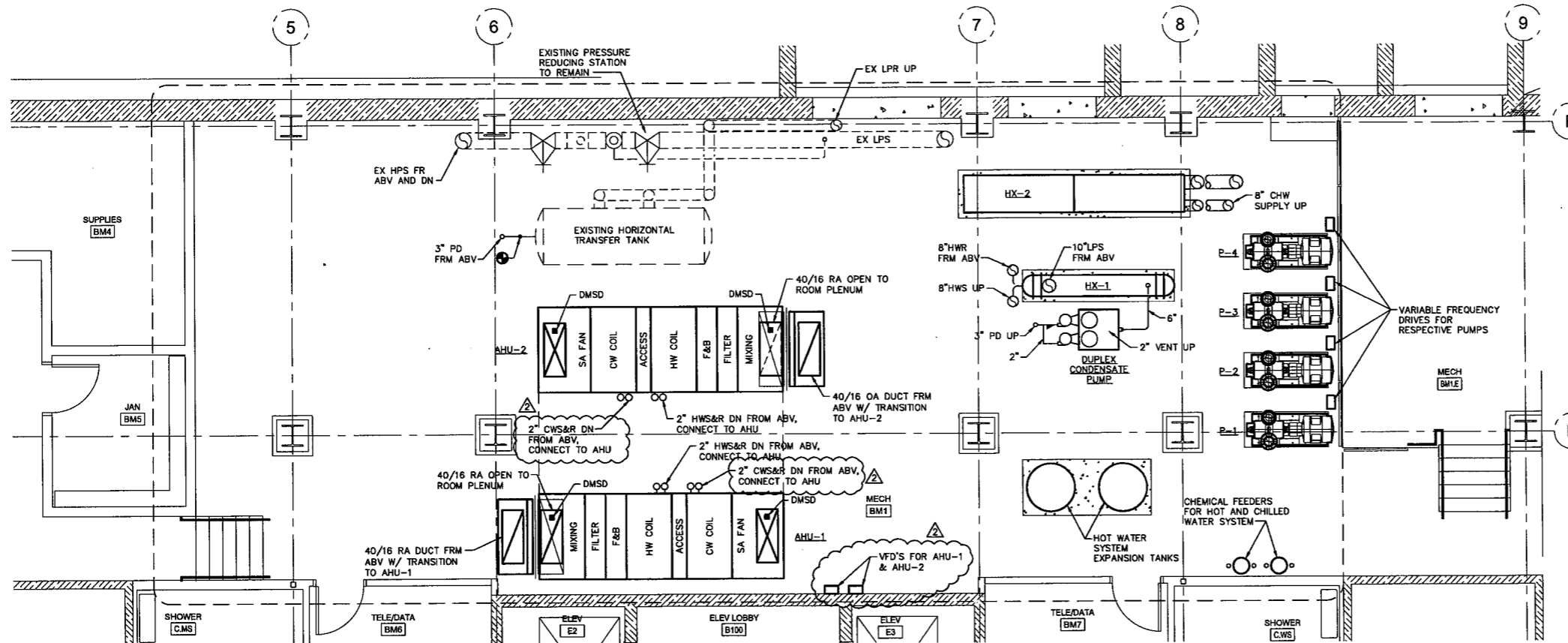
1800 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

MACHINE ROOM HVAC PLAN -  
 PIPING

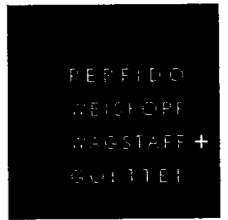
**M-209**



1 ENLARGED MAIN MECH ROOM UPPER LEVEL HVAC PLAN  
M-301 1/4" = 1'-0"



2 ENLARGED MAIN MECH ROOM LOWER LEVEL HVAC PLAN  
M-301 1/4" = 1'-0"



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ENLARGED HVAC PLANS

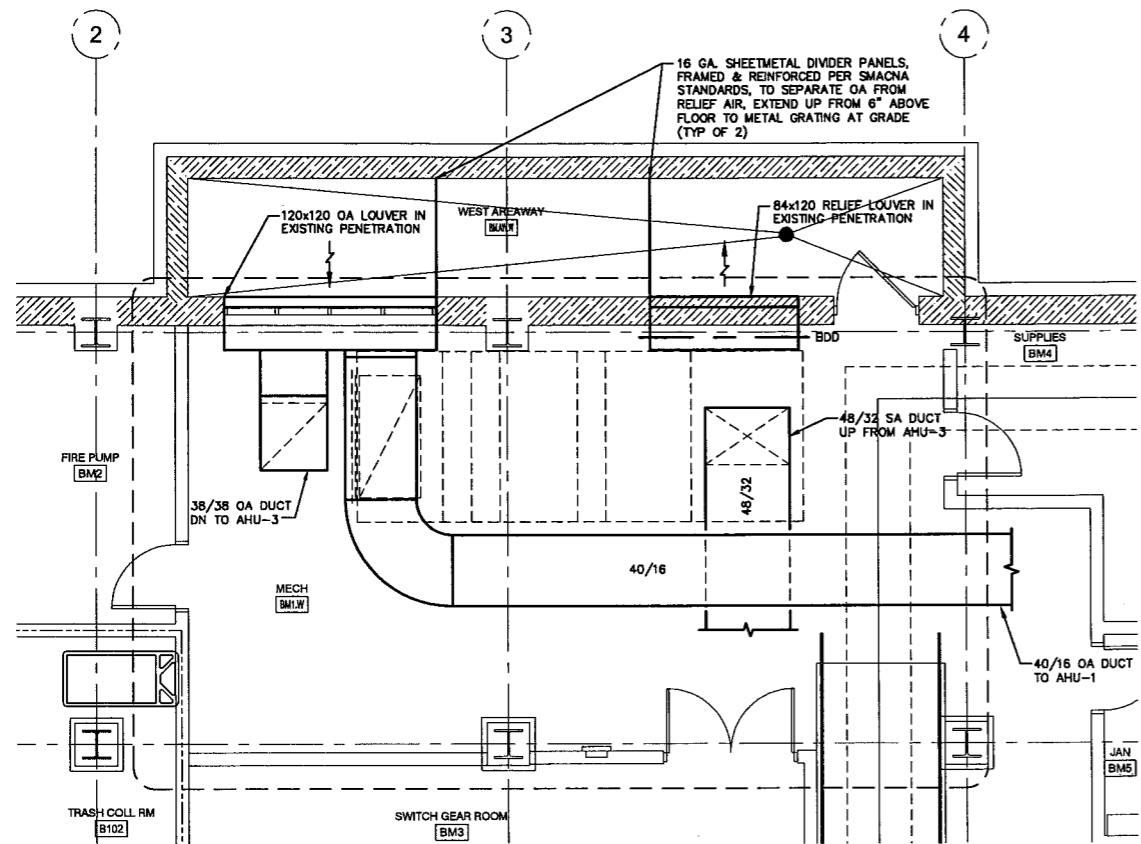
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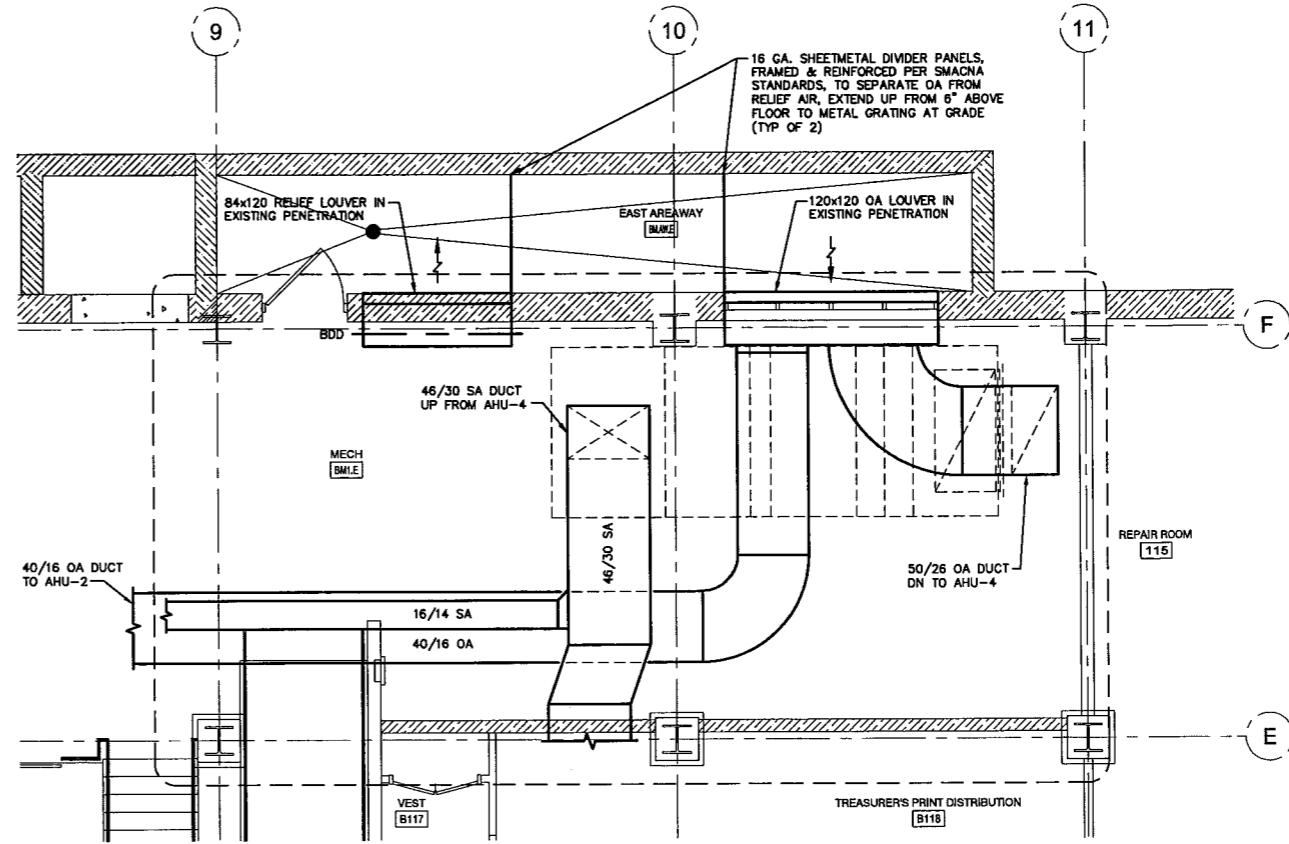
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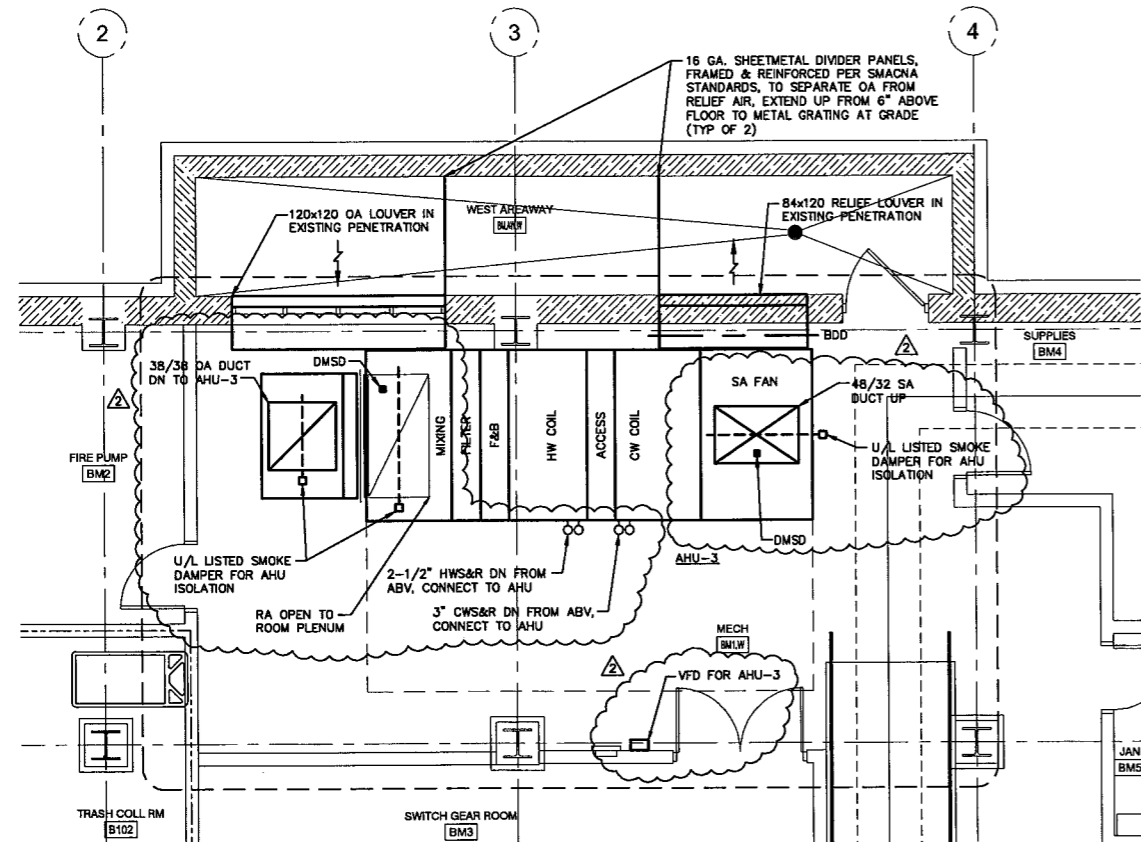
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 CIL Project #07-006



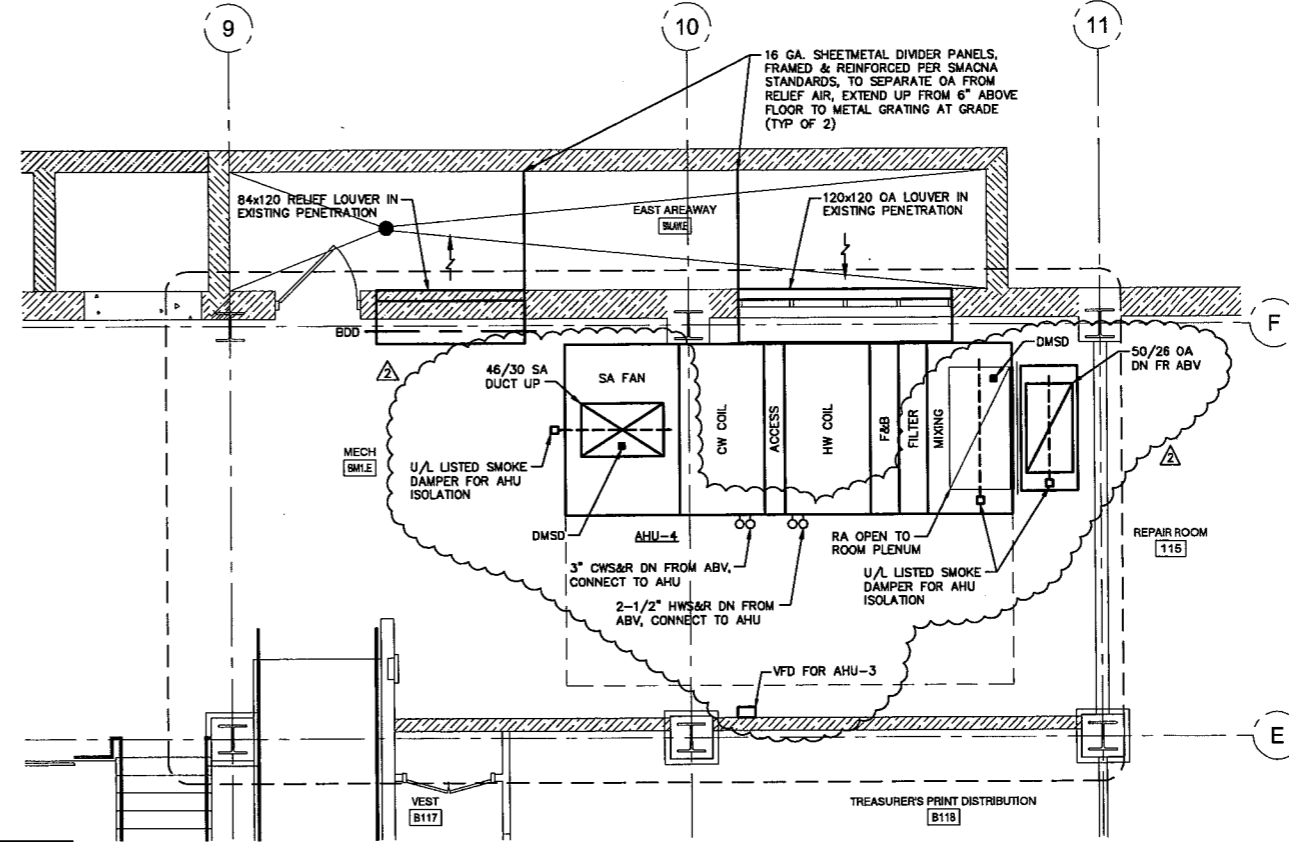
1 ENLARGED WEST MECH ROOM UPPER LEVEL HVAC PLAN  
 M-302 1/4" = 1'-0"



3 ENLARGED EAST MECH ROOM UPPER LEVEL HVAC PLAN  
 M-302 1/4" = 1'-0"



2 ENLARGED WEST MECH ROOM LOWER LEVEL HVAC PLAN  
 M-302 1/4" = 1'-0"



4 ENLARGED EAST MECH ROOM LOWER LEVEL HVAC PLAN  
 M-302 1/4" = 1'-0"

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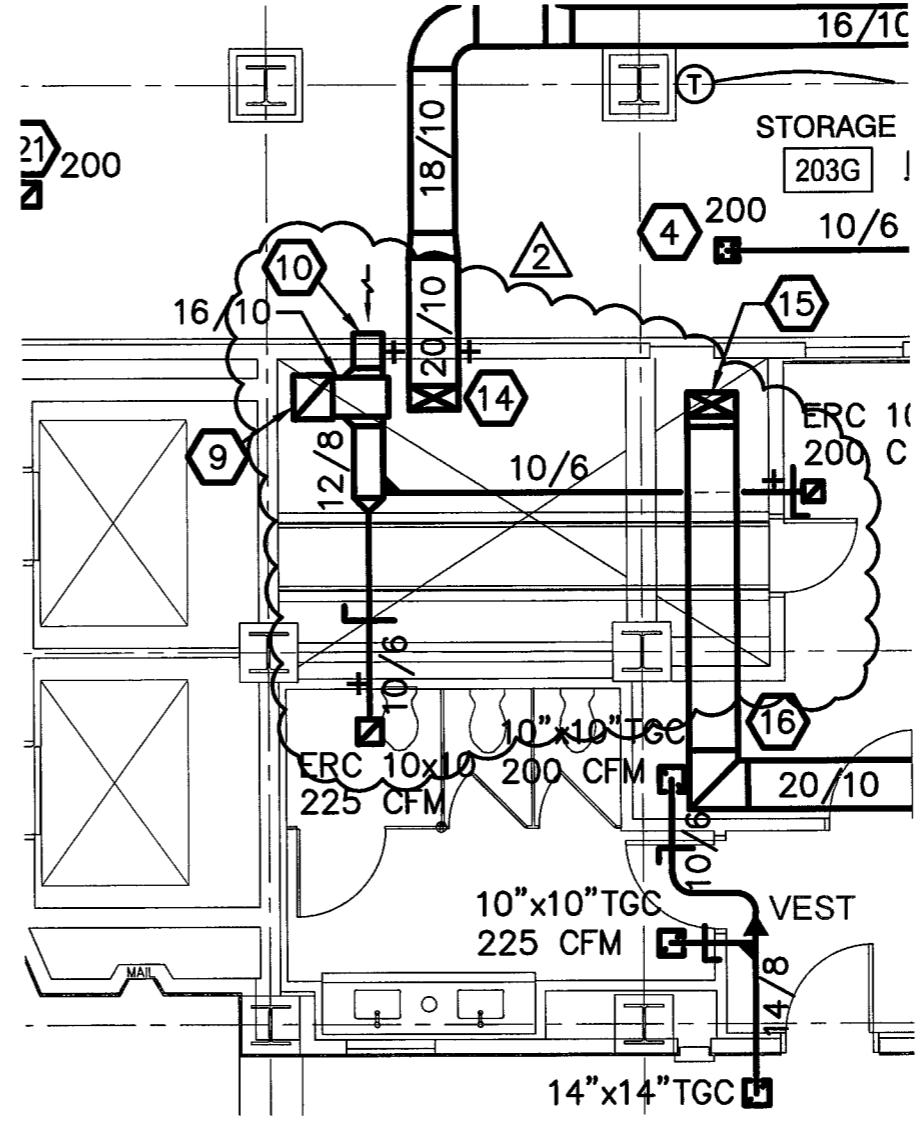
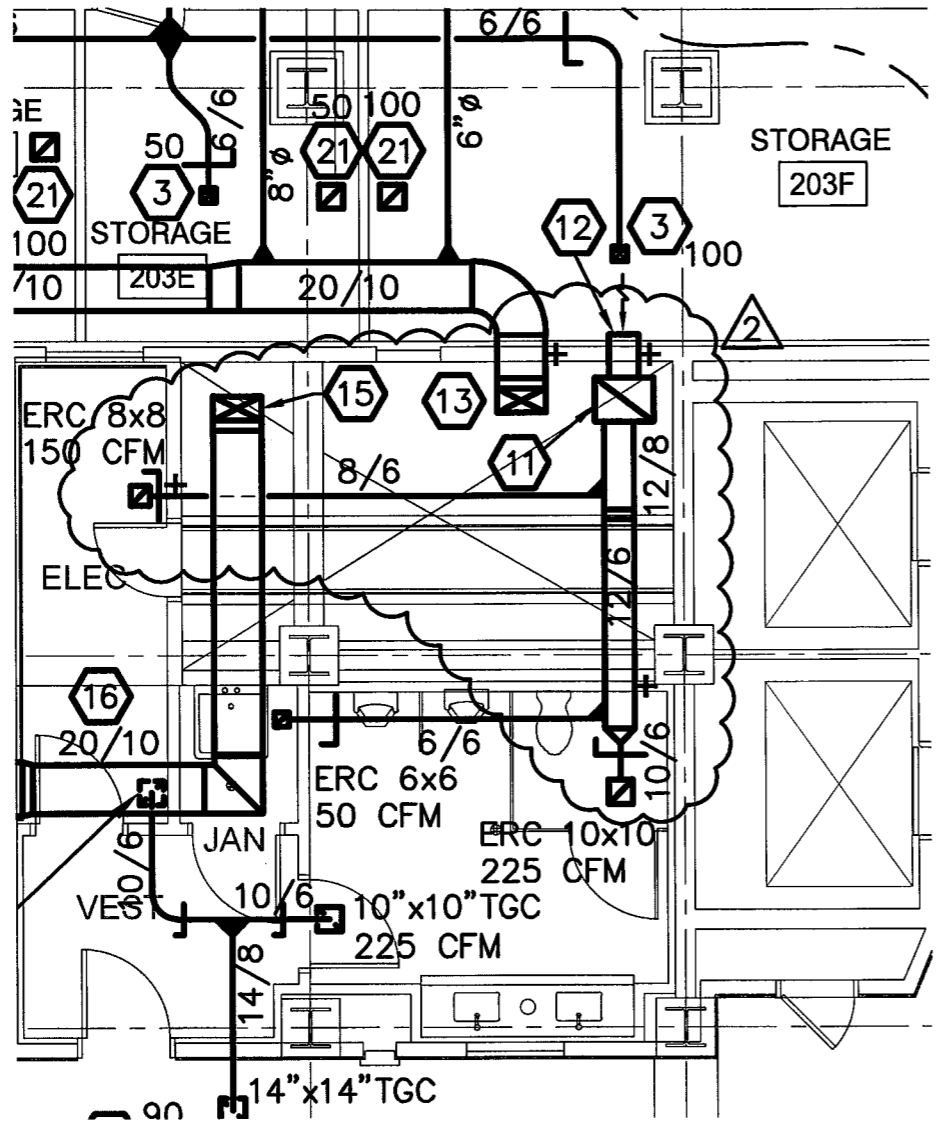
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1900 KANAWHA BOULEVARD EAST  
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ENLARGED HVAC PLANS

M-302



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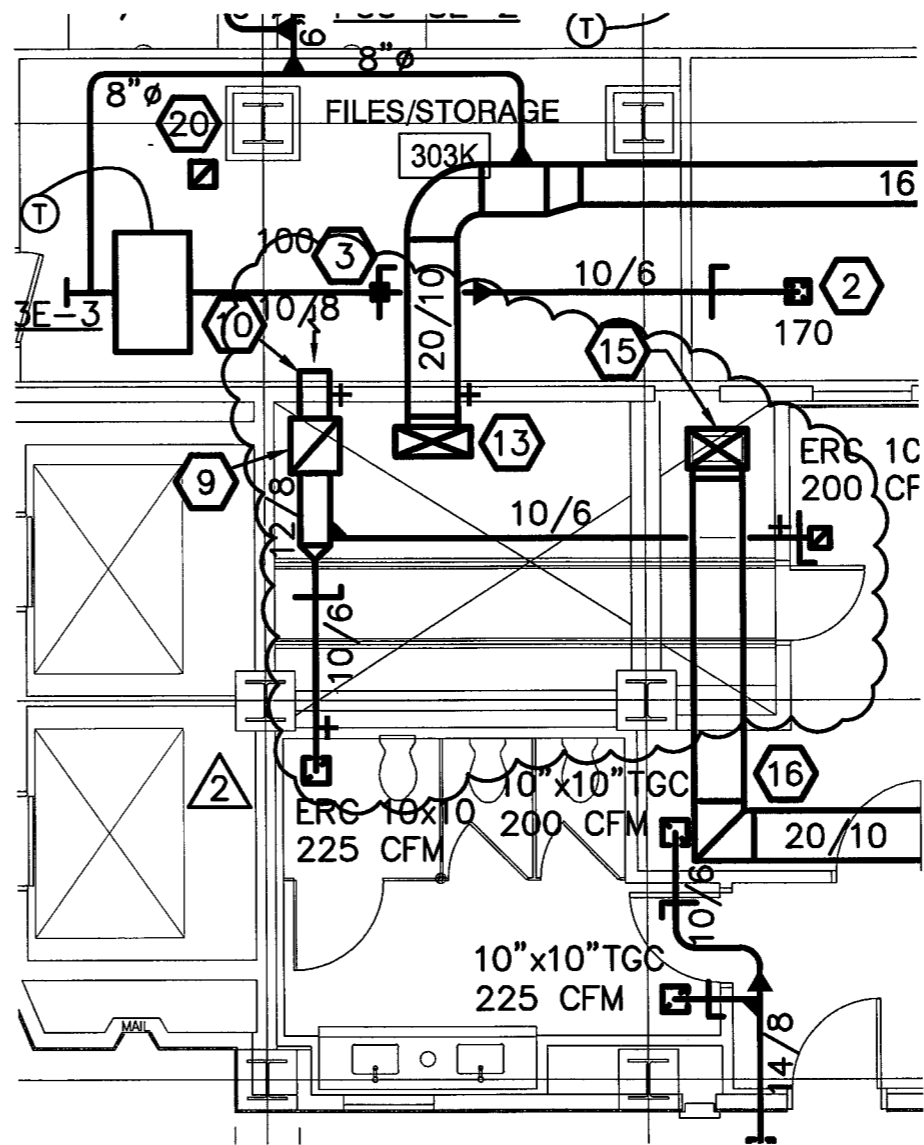
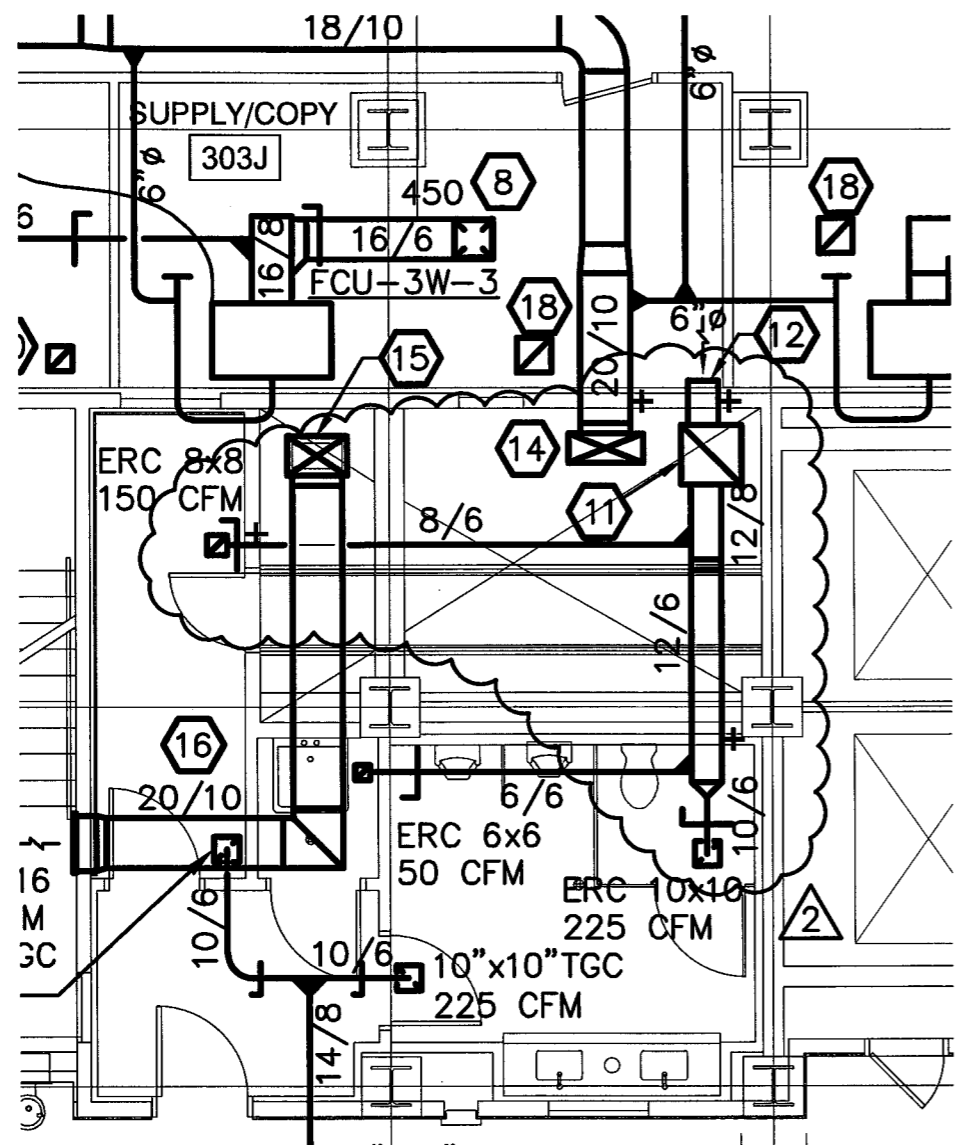
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**FIRE DAMPERS**

**SKM-01**  
 REFERENCE DWG M-102



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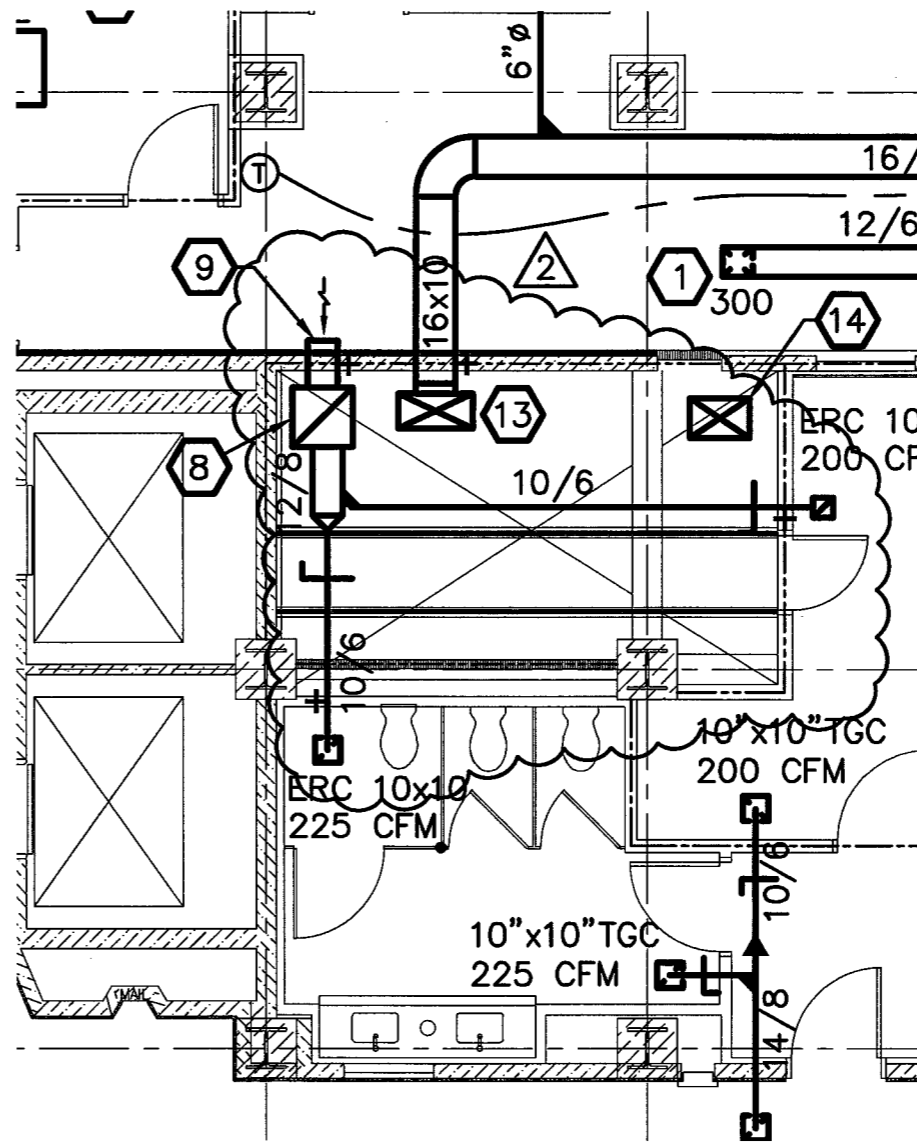
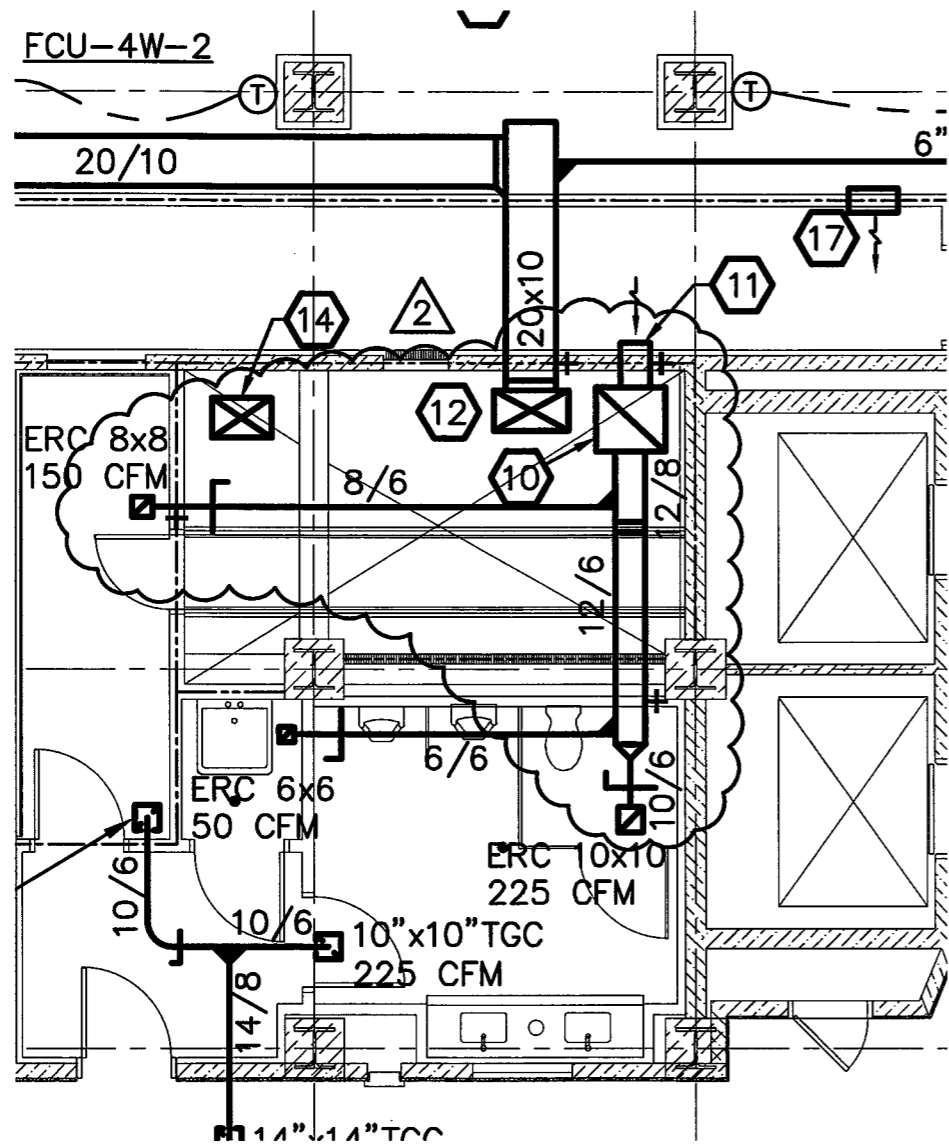
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 RENOVATIONS**

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**FIRE DAMPERS**

**SKM-02**  
 REFERENCE DWG M-103





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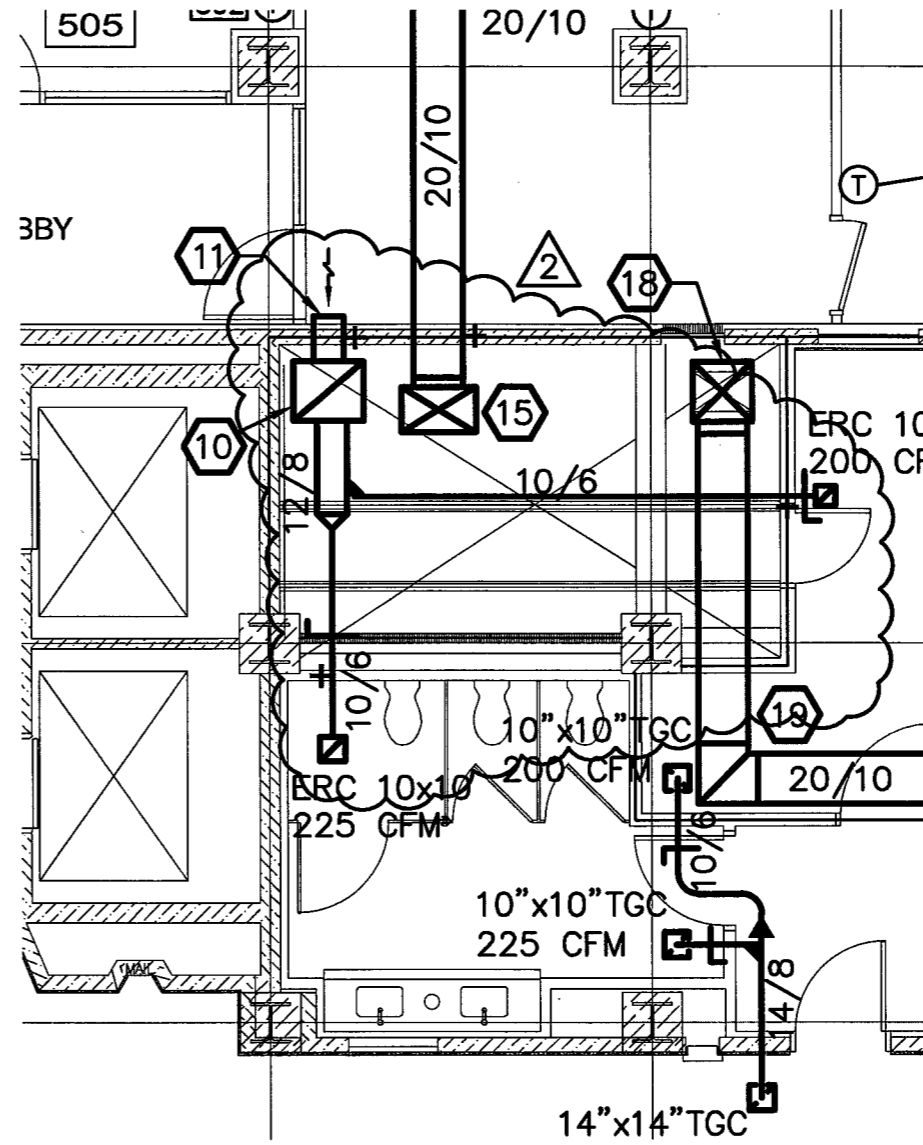
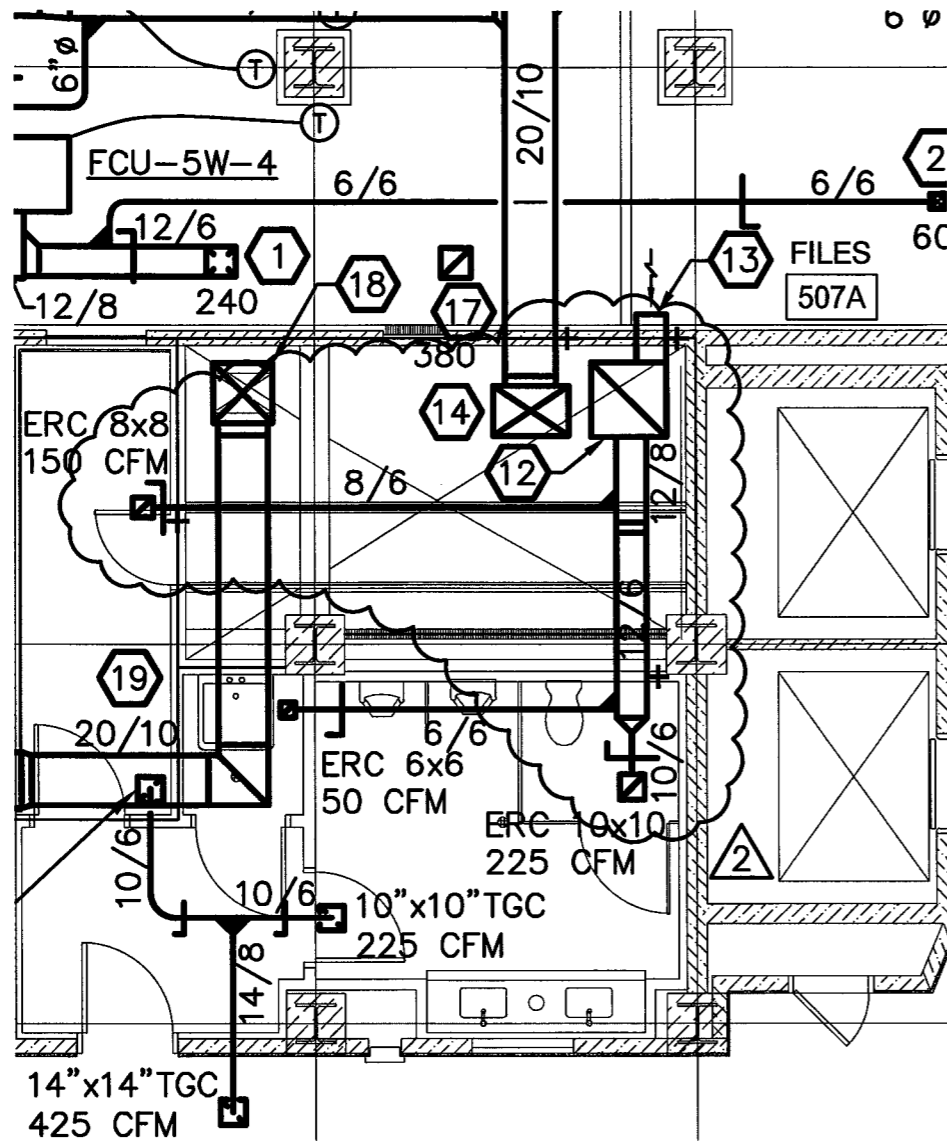
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FIRE DAMPERS

**SKM-03**  
 REFERENCE DWG M-104



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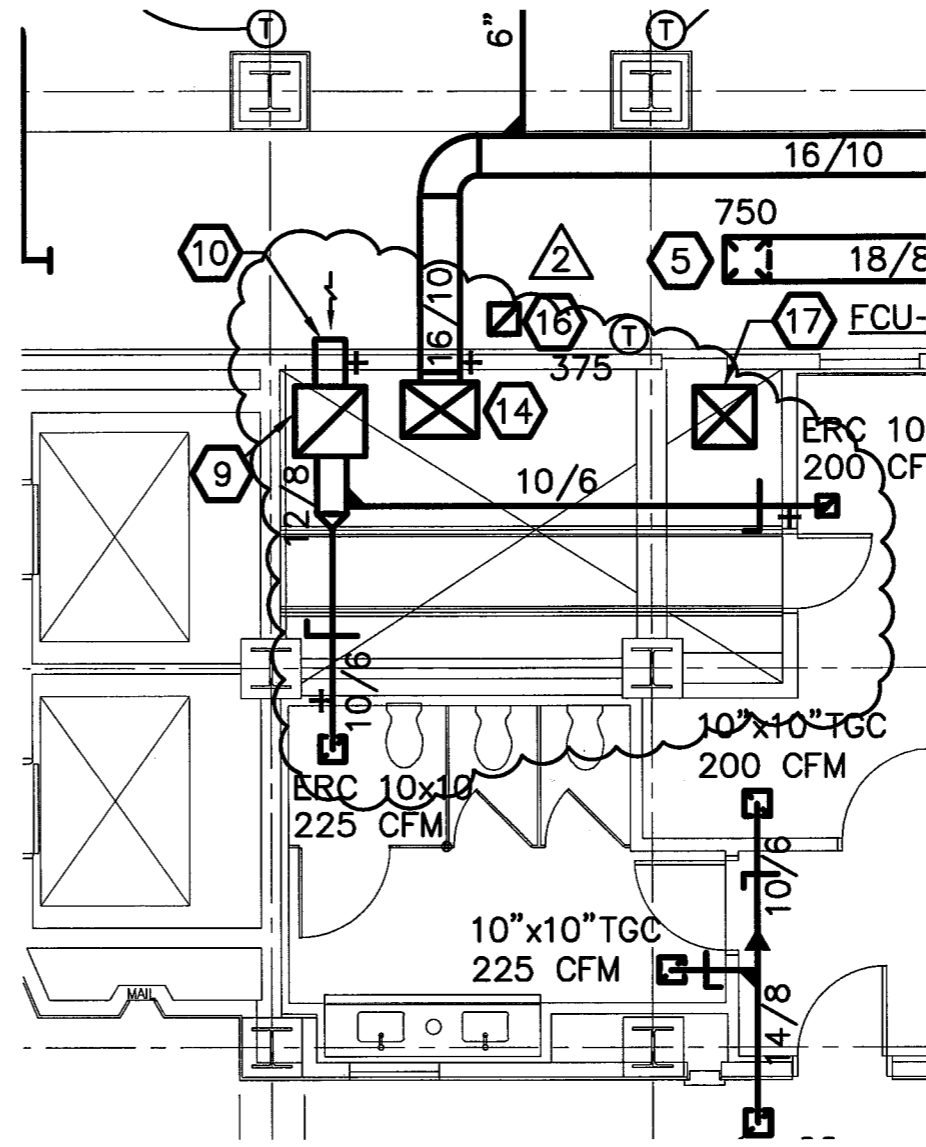
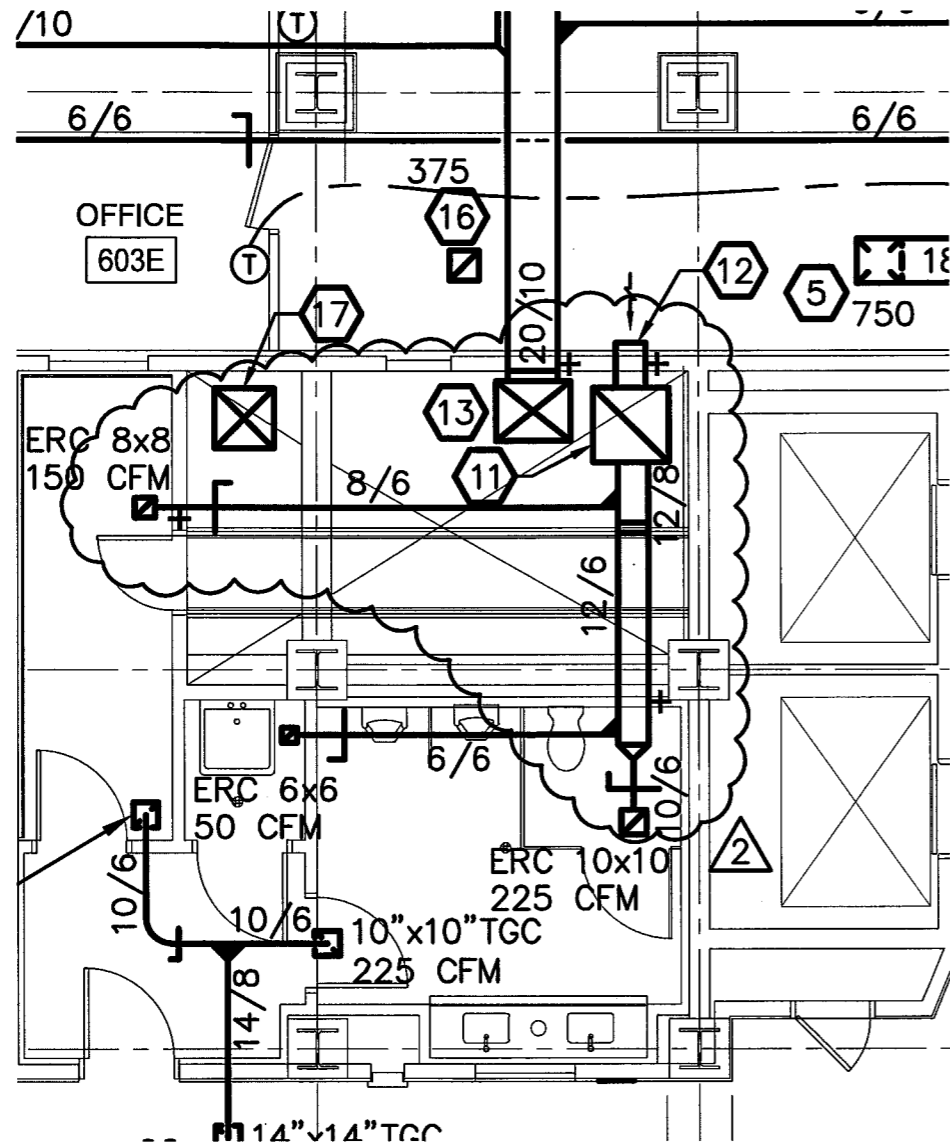
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**FIRE DAMPERS**

**SKM-04**  
 REFERENCE DWG M-105



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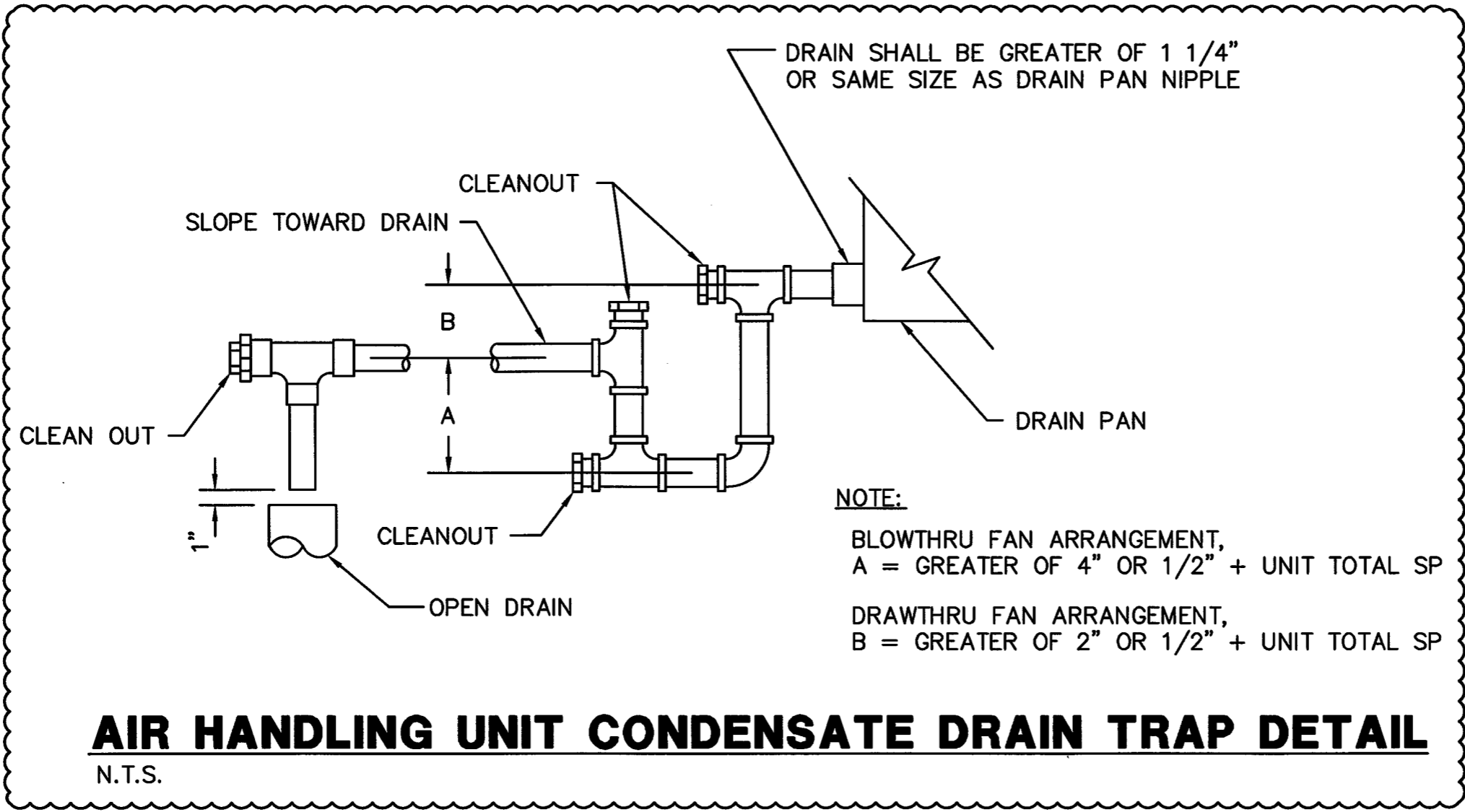
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FIRE DAMPERS

**SKM-05**  
REFERENCE DWG M-106

2



# AIR HANDLING UNIT CONDENSATE DRAIN TRAP DETAIL

N.T.S.



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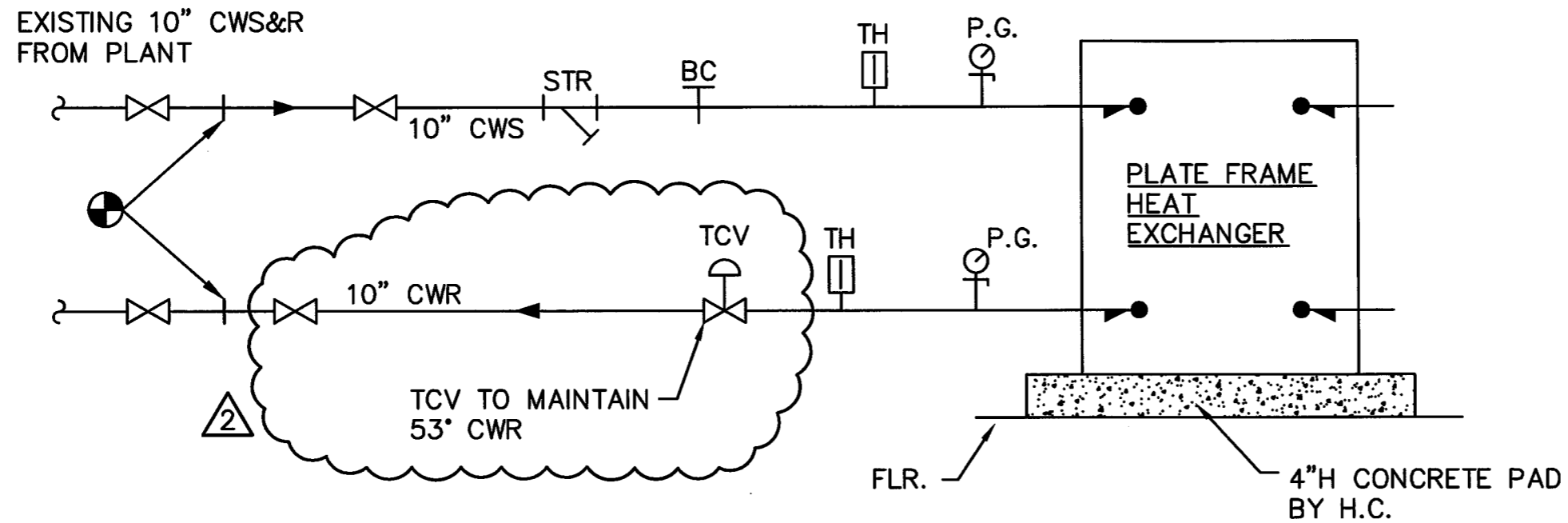
TRAP DETAIL

**SKM-06**  
 REFERENCE DWG M-501

**NOTE:**  
 BLOWTHRU FAN ARRANGEMENT,  
 A = GREATER OF 4" OR 1/2" + UNIT TOTAL SP  
 DRAWTHRU FAN ARRANGEMENT,  
 B = GREATER OF 2" OR 1/2" + UNIT TOTAL SP

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## CHILLED WATER FLOW DIAGRAM

NO SCALE

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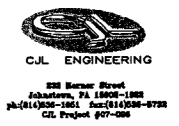
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OFFICE BUILDING NO. 3  
RENOVATIONS

1900 KANAWHA BOULEVARD EAST  
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PARTIAL CHILLED  
WATER FLOW DIAGRAM

# SKM-07

REFERENCE DWG M-602

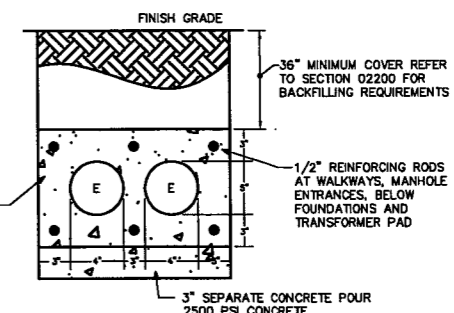
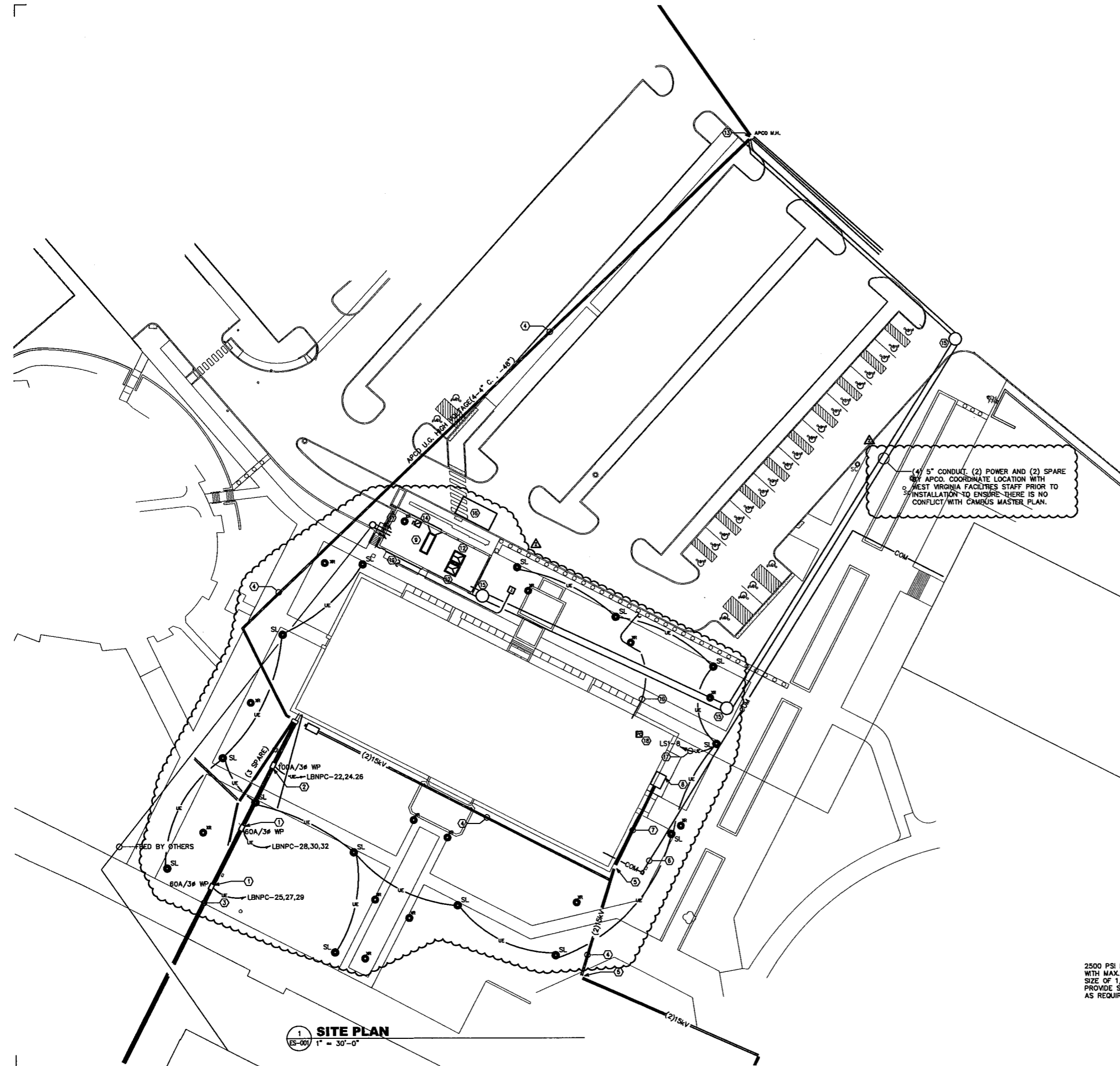


**GENERAL NOTES**

1. ALL WORK ASSOCIATED WITH CONNECTION AT THE UTILITY MANHOLE, RUNNING 15KV FEEDS IN DUCTBANK TO THE LOADING PAWLION, PROVIDING 15KV UTILITY SWITCHES, AND PROVIDING THE 15KV POWER CONNECTION TO THESE NEW SWITCHES SHALL BE DONE BY APPALACHIAN POWER CO. AN ALLOWANCE HAS BEEN PROVIDED IN THE GENERAL CONTRACTOR'S BID FOR THIS WORK IN ACCORDANCE WITH SPECIFICATION SECTION 012100.

- NUMBERED NOTES**
- 1 60A EVENT BOX TO REMAIN. CIRCUIT TO BE REFEED FROM NEW PANEL BOARD IN BASEMENT LEVEL.
  - 2 100A EVENT BOX TO REMAIN. CIRCUIT TO BE REFEED FROM NEW PANEL BOARD IN BASEMENT LEVEL.
  - 3 EXISTING (3) 6" CONDUIT (1) SPARE TO REMAIN.
  - 4 EXISTING (2) 15KV UNDERGROUND ELECTRIC CIRCUITS TO BE REMOVED UPON COMPLETION OF THE NEW ELECTRICAL SERVICE INTO THE LOADING PAWLION AND THEN INTO BUILDING #3.
  - 5 EXISTING ELECTRIC MANHOLE TO REMAIN.
  - 6 EXISTING TELECOMMUNICATIONS CONDUIT AND FIBER OPTIC CABLE TO REMAIN.
  - 7 EXISTING DUCTBANK SHALL BE EXISTING TO BE REMOVED.
  - 8 EXISTING TRANSFORMER IN UNDERGROUND VAULT TO BE REMOVED. ASSOCIATED WORK TO BE COORDINATED WITH UTILITY COMPANY. VAULT SHALL BE EXISTING TO BE ABANDONED AND FILLED.
  - 9 LOCATION OF EMERGENCY GENERATOR WITH BASE MOUNTED DIESEL FUEL TANK.
  - 10 EXISTING SITE POLE LIGHTING CIRCUIT TO BE MAINTAINED AND REFEED FROM NEW PANEL LOCATED IN THE BASEMENT. COORDINATE WITH ARCHITECT AND CIVIL SITE PLAN.
  - 11 EXISTING SITE POLE LIGHTING TO BE REMOVED AND RELOCATED. MAINTAIN CONTINUITY OF EXISTING CIRCUIT AND EXTEND ASSOCIATED WIRE AND CONDUIT AS REQUIRED TO NEW POLE LOCATION.
  - 12 15KV TO 480V TRANSFORMERS OWNED BY THE STATE. PROVIDE PAD AS RECOMMENDED BY TRANSFORMER MANUFACTURER.
  - 13 EXISTING POWER COMPANY MANHOLE TO REMAIN. THIS MANHOLE IS IDENTIFIED ON THE SINGLE LINE DIAGRAM AS MH#1.
  - 14 POWER CONNECTION TO DOCK ELEVATOR SYSTEM. COORDINATE LOCATION OF DISCONNECT WITH THE EQUIPMENT PROVIDED PRIOR TO ROUGH-IN.
  - 15 NEW POWER COMPANY MANHOLES.
  - 16 APPROXIMATE LOCATION OF UNDERGROUND GENERATOR FUEL TANK. SEE DWG EP-101 FOR DETAIL.
  - 17 CIRCUIT SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL AND PHOTOCELL. PROVIDE #8 AWG WIRE FOR ENTIRE CIRCUIT.
  - 18 COORDINATE LOCATION AND MOUNTING OF PHOTOCELL IN THE FIELD. PROVIDE CONNECTION TO LIGHTING CONTROL PANEL. COORDINATE WIRING REQUIREMENTS WITH MANUFACTURER.
  - 19 SEE DRAWING EM-100 FOR CONTINUATION.

(4) 5" CONDUIT, (2) POWER AND (2) SPARE BY APCCO. COORDINATE LOCATION WITH WEST VIRGINIA FACILITIES STAFF PRIOR TO INSTALLATION TO ENSURE THERE IS NO CONFLICT WITH CAMPUS MASTER PLAN.



**1 SITE PLAN**  
ES-001 1" = 30'-0"

**2 SECTION A-A**  
ES-001 NO SCALE

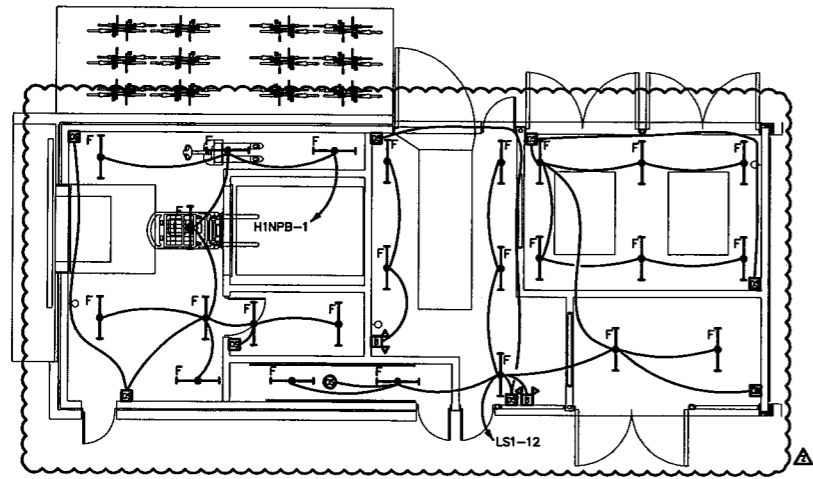
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**WEST VIRGINIA STATE OFFICE BUILDING NO.3 RENOVATION**

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CHARLESTON, WEST VIRGINIA 25305

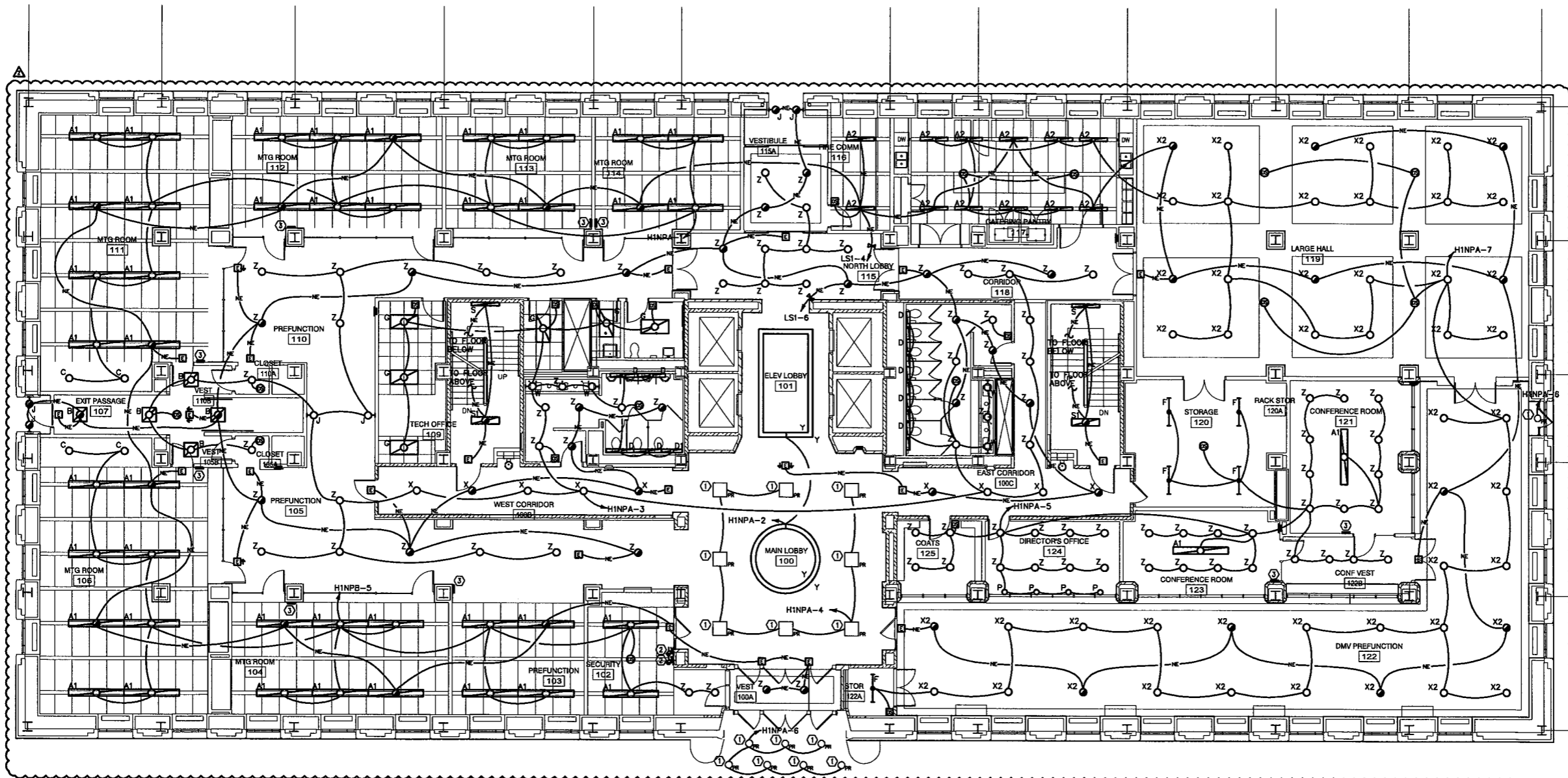
SITE PLAN



- NUMBERED NOTES**
- ① FIXTURE IS PRESENT TO REMAIN AND SHALL BE RELAMPED.
  - ② LOW VOLTAGE LIGHTING CONTROL SWITCHES TO BE PROGRAMMED AS DIRECTED BY THE WEST VIRGINIA FACILITIES PLANNING OFFICE.
  - ③ LIGHTING CONTROL PANEL. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.



C.J.L. ENGINEERING  
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1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

FIRST FLOOR PLAN -  
LIGHTING

**EL-101**

**FIRST FLOOR PLAN - LIGHTING**  
EL-101 1/8" = 1'-0"



**NUMBERED NOTES:**

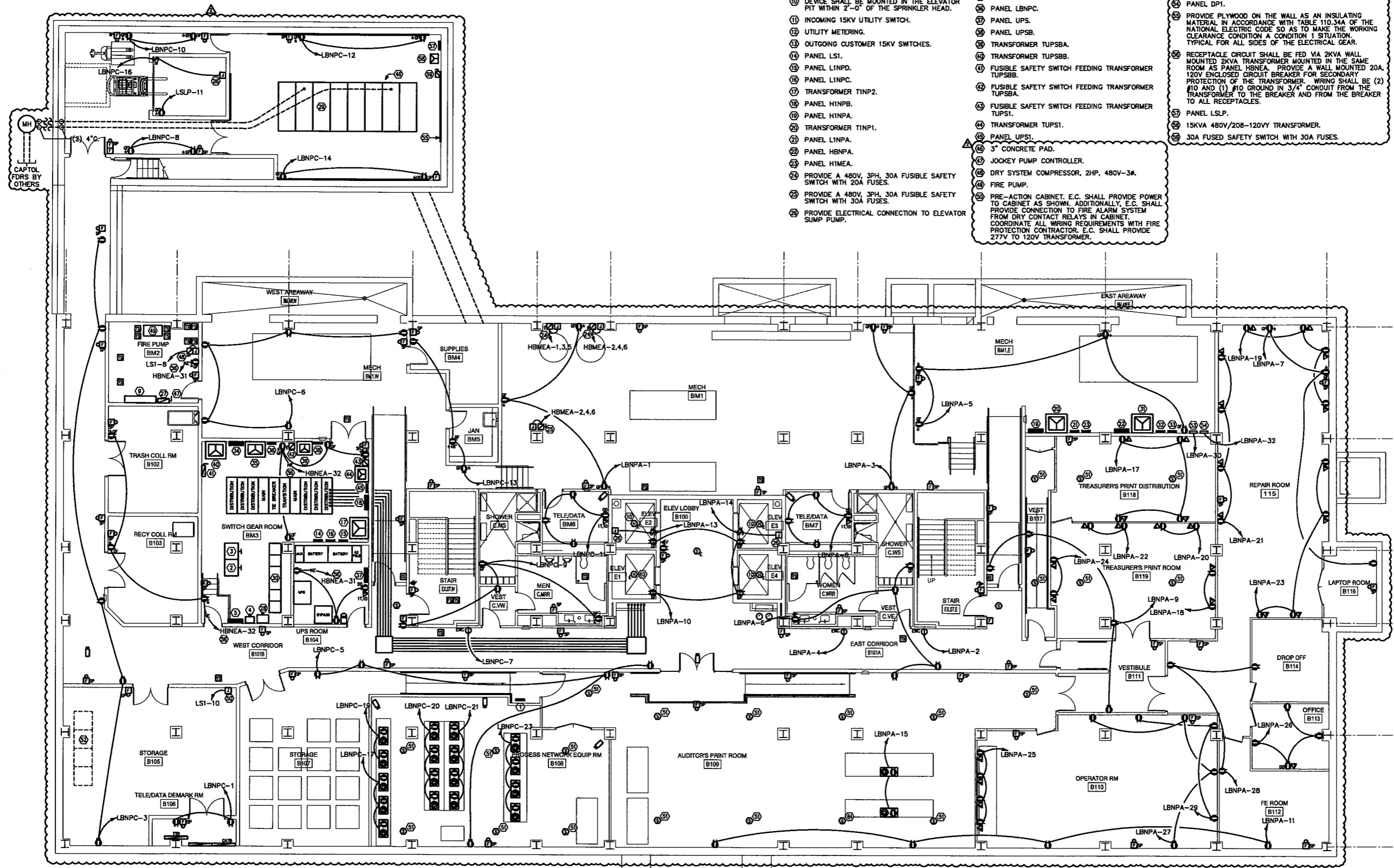
- 1 PANEL AUDIT UPS.
- 2 AUTOMATIC TRANSFER SWITCH ATS-NE.
- 3 AUTOMATIC TRANSFER SWITCH ATS-UPS.
- 4 AUTOMATIC TRANSFER SWITCH ATS-LS.
- 5 PANEL HBNEA.
- 6 NOT USED.
- 7 NOT USED.
- 8 NOT USED.
- 9 FIRE PUMP CONTROLLER.
- 10 DEVICE SHALL BE MOUNTED IN THE ELEVATOR PIT WITHIN 2'-0" OF THE SPRINKLER HEAD.
- 11 INCOMING 15KV UTILITY SWITCH.
- 12 UTILITY METERING.
- 13 OUTGOING CUSTOMER 15KV SWITCHES.
- 14 PANEL LSI.
- 15 PANEL LINPD.
- 16 PANEL LINPC.
- 17 TRANSFORMER TINP2.
- 18 PANEL HINPB.
- 19 PANEL HINPA.
- 20 TRANSFORMER TINP1.
- 21 PANEL LINPA.
- 22 PANEL HBNEA.
- 23 PANEL HIMEA.
- 24 PROVIDE A 480V, 3PH, 30A FUSIBLE SAFETY SWITCH WITH 30A FUSES.
- 25 PROVIDE A 480V, 3PH, 30A FUSIBLE SAFETY SWITCH WITH 30A FUSES.
- 26 PROVIDE ELECTRICAL CONNECTION TO ELEVATOR SUMP PUMP.

**NUMBERED NOTES: (cont.)**

- 27 SERVICE ENTRANCE RATED 600A FUSIBLE SAFETY SWITCH WITH 600A FUSES.
- 28 AUTOMATIC TRANSFER SWITCH ATS-ELEV.
- 29 15KV WEST VIRGINIA CAPITOL SWITCHGEAR.
- 30 EMERGENCY ONLY SWITCHBOARD.
- 31 TRANSFORMER TBNP1.
- 32 PANEL LBNPA.
- 33 PANEL HBNEA.
- 34 PANEL HBNPB.
- 35 TRANSFORMER TBNP2.
- 36 PANEL LBNPC.
- 37 PANEL UPS.
- 38 PANEL UPSB.
- 39 TRANSFORMER TUPSBA.
- 40 TRANSFORMER TUPSBB.
- 41 FUSIBLE SAFETY SWITCH FEEDING TRANSFORMER TUPSBB.
- 42 FUSIBLE SAFETY SWITCH FEEDING TRANSFORMER TUPSBA.
- 43 FUSIBLE SAFETY SWITCH FEEDING TRANSFORMER TUPS1.
- 44 TRANSFORMER TUPS1.
- 45 PANEL UPS1.
- 46 3" CONCRETE PAD.
- 47 JOCKEY PUMP CONTROLLER.
- 48 DRY SYSTEM COMPRESSOR, 2HP, 480V-3A.
- 49 FIRE PUMP.
- 50 PRE-ACTION CABINET, E.C. SHALL PROVIDE POWER TO CABINET AS SHOWN. ADDITIONALLY, E.C. SHALL PROVIDE CONNECTION TO FIRE ALARM SYSTEM FROM DRY CONTACT RELAYS IN CABINET. COORDINATE ALL WIRING REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR. E.C. SHALL PROVIDE 277V TO 120V TRANSFORMER.

**NUMBERED NOTES: (cont.)**

- 51 DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- 52 BUILDING NO.1 AND NO.3 EXISTING 15KV SWITCHGEAR. THE EXISTING ELECTRICAL SERVICE FEEDS TO BUILDING NO.1 SHALL REMAIN ENERGIZED UNTIL COMPLETION OF BUILDING NO.3 NEW ELECTRICAL SERVICE. AND BUILDING NO.1 NEW ELECTRICAL SERVICE FEEDS (BY WEST VIRGINIA STATE CAPITOL FACILITIES DEPARTMENT). COORDINATE ALL WORK ASSOCIATED WITH BUILDING NO.1 ELECTRICAL SERVICE TIE IN AND DEMOLITION OF EXISTING 15KV SWITCHGEAR WITH WEST VIRGINIA STATE CAPITOL FACILITIES DEPARTMENT.
- 53 PANEL DPG.
- 54 PANEL DP1.
- 55 PROVIDE PLYWOOD ON THE WALL AS AN INSULATING MATERIAL IN ACCORDANCE WITH TABLE 110.3.4A OF THE NATIONAL ELECTRIC CODE SO AS TO MAKE THE WORKING CLEARANCE CONDITION A CONDITION 1 SITUATION. TYPICAL FOR ALL SIDES OF THE ELECTRICAL GEAR.
- 56 RECEPTACLE CIRCUIT SHALL BE FED VIA 2KVA WALL MOUNTED 2KVA TRANSFORMER MOUNTED IN THE SAME ROOM AS PANEL HBNEA. PROVIDE A WALL MOUNTED 20A, 120V ENCLOSED CIRCUIT BREAKER FOR SECONDARY PROTECTION OF THE TRANSFORMER. WIRING SHALL BE (2) #10 AND (1) #10 GROUND IN 3/4" CONDUIT FROM THE TRANSFORMER TO THE BREAKER AND FROM THE BREAKER TO ALL RECEPTACLES.
- 57 PANEL LSLP.
- 58 15KVA 480V/208-120VY TRANSFORMER.
- 59 30A FUSED SAFETY SWITCH WITH 30A FUSES.



**1 BASEMENT FLOOR PLAN - POWER & SYSTEMS**  
FP-100 1/8" = 1'-0"

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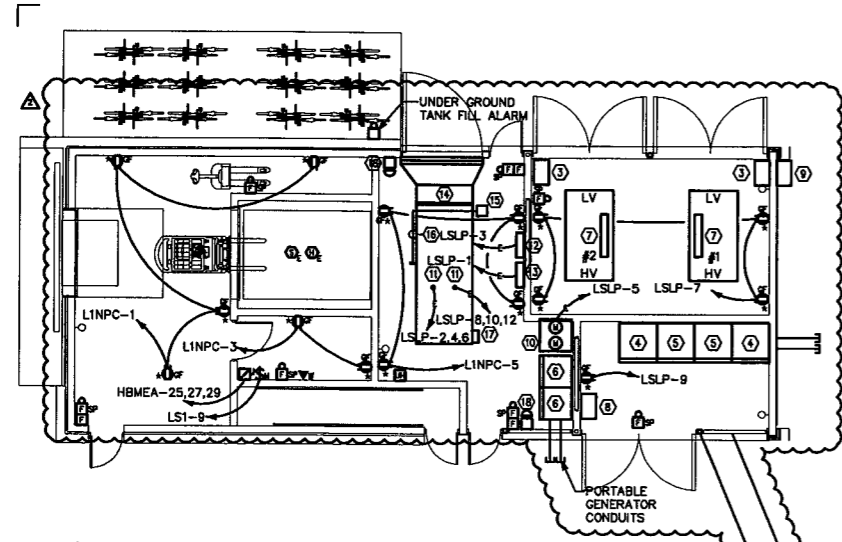
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RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

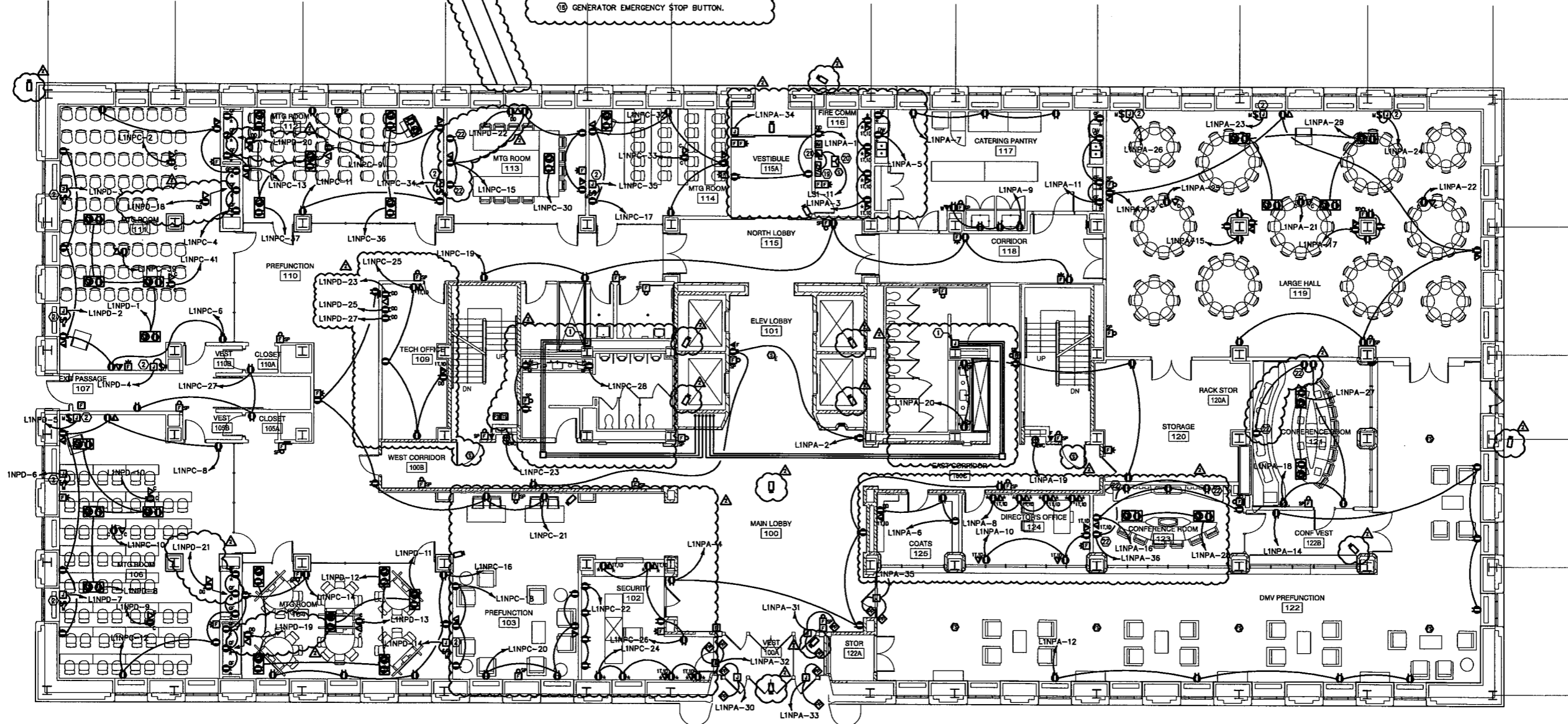
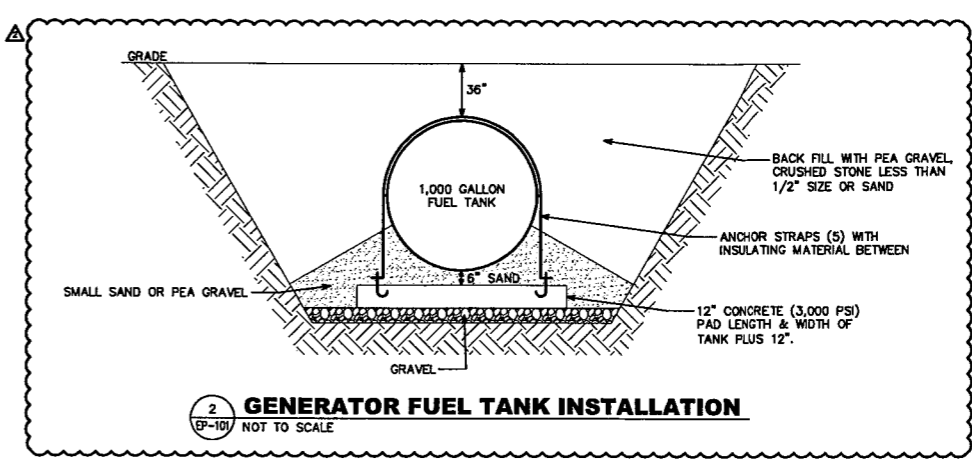
BASEMENT FLOOR PLAN -  
POWER & SYSTEMS





- NUMBERED NOTES**
- ① JUNCTION BOX TO ACT AS FEEDER ENTRANCE TO BUS DUCT ON FLOOR ABOVE
  - ② PROVIDE POWER CONNECTION TO MOTORIZED PROJECTOR SCREEN.
  - ③ 2000A, 3PH PRINGLE SWITCH, SER #1 & SER #2.
  - ④ APPALACHIAN POWER COMPANY UTILITY SWITCHES.
  - ⑤ APPALACHIAN POWER COMPANY METERING.
  - ⑥ 1200A DOUBLE THROW TRANSFER SWITCH.
  - ⑦ 1500KVA TRANSFORMER #1 & #2.
  - ⑧ FIRE PUMP SWITCH.
  - ⑨ APC METER.
  - ⑩ 1/4 H.P DAY TANK.
  - ⑪ 3 KW 208V JACKET WATER HEATERS.
  - ⑫ FUEL TANK MONITORING PANEL.
  - ⑬ BATTERY CHARGER.
  - ⑭ 200 KW LOAD BANK.
  - ⑮ BATTERY.
  - ⑯ 2" CONDUIT FOR BATTERY CABLE TO STARTER.
  - ⑰ GENERATOR BREAKER.
  - ⑱ GENERATOR EMERGENCY STOP BUTTON.

- ⑩ FIRE ALARM CONTROL PANEL.
- ⑫ 2KVA WALL MOUNTED TRANSFORMER.
- ⑬ 20A, 120V ENCLOSED CIRCUIT BREAKER.
- ⑭ DUPLEX RECEPTACLE FOR FLAT PANEL DISPLAY. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.



**1 FIRST FLOOR PLAN - POWER & SYSTEMS**  
EP-101 1/8" = 1'-0"

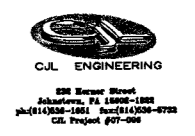
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100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

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**WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

FIRST FLOOR PLAN -  
POWER & SYSTEMS

**EP-101**

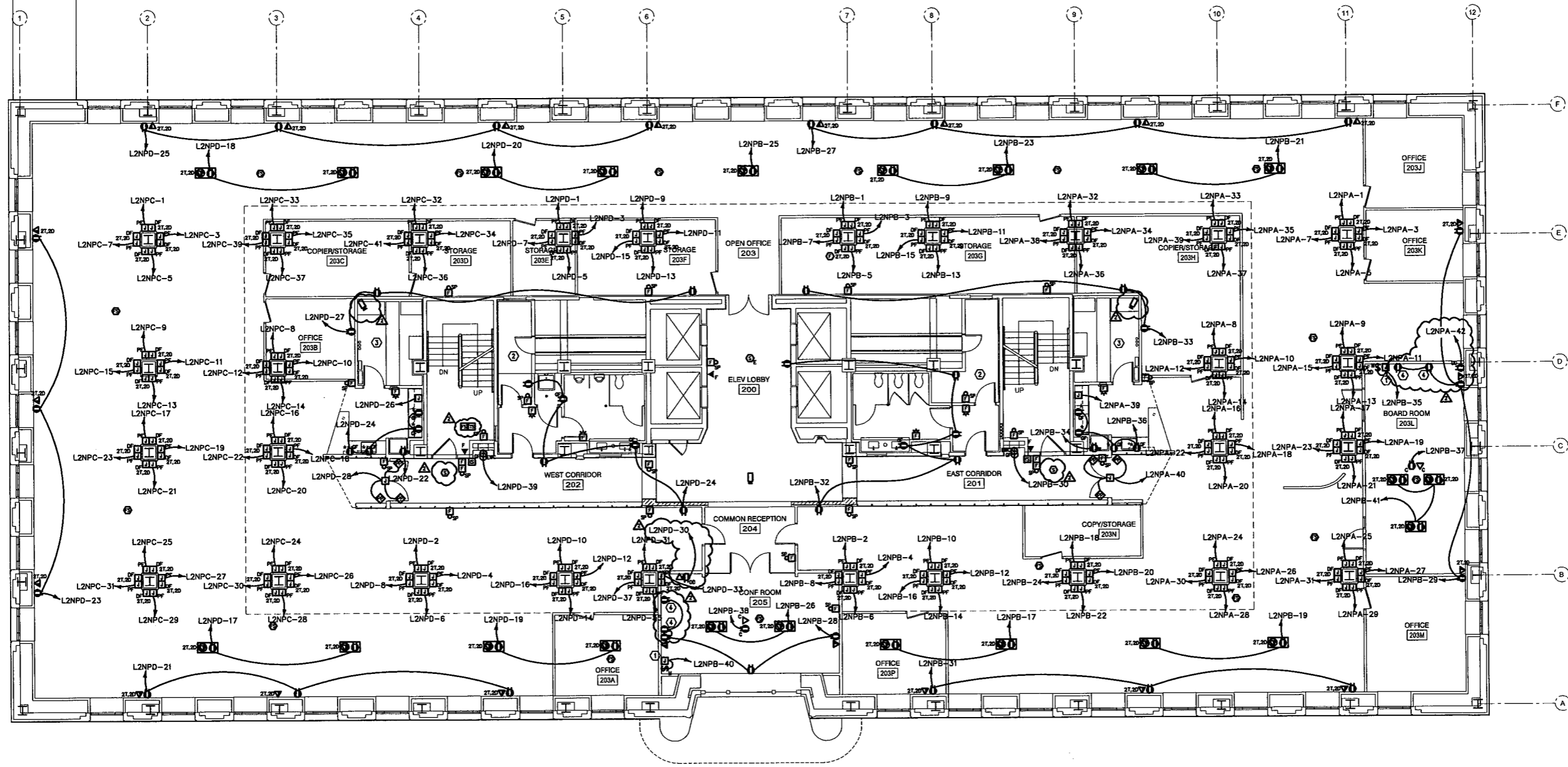
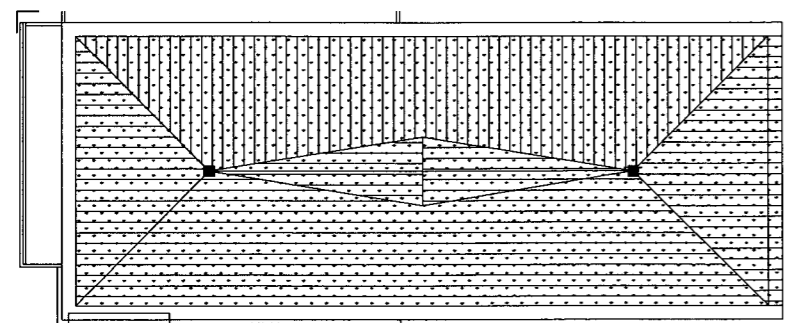


**GENERAL NOTES**

1. ALL CEILING MOUNTED ELECTRICAL DEVICES MOUNTED IN THE CEILING GRID BETWEEN THE EXTERIOR WALL AND THE BULKHEAD AROUND THE CORE AREA SHALL BE PROVIDED WITH A 10' WHIP OF ADDITIONAL FLEXIBLE CONDUIT AND WIRE SO THAT IN CASE OF RECONFIGURATION OF THE PARTITIONS, THESE DEVICES MAY BE RELOCATED BY WEST VIRGINIA STATE CAPITOL FACILITIES STAFF WITHOUT ANY ADDITIONAL WIRING.

**NUMBERED NOTES**

- 1 PROVIDE POWER CONNECTION TO MOTORIZED PROJECTOR SCREEN.
- 2 SEE ENLARGED ELECTRICAL ROOMS DRAWING FOR ELECTRICAL EQUIPMENT LOCATIONS IN THE ELECTRICAL ROOM.
- 3 SEE ENLARGED TELECOMMUNICATIONS ROOMS DRAWING FOR TELECOMMUNICATIONS LAYOUT AND ELECTRICAL EQUIPMENT IN THIS ROOM. COORDINATE THE EXACT ELECTRICAL CONNECTION TYPES AND LOCATIONS FOR THIS ROOM WITH THE WEST VIRGINIA OFFICE OF TECHNOLOGY PRIOR TO ROUGH-IN.
- 4 DUPLEX RECEPTACLE FOR FLAT PANEL DISPLAY. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.



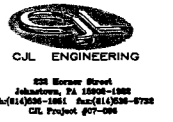
**1 SECOND FLOOR PLAN - POWER & SYSTEMS**  
B-102 1/8" = 1'-0"

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**SECOND FLOOR PLAN -  
POWER & SYSTEMS**

**EP-102**

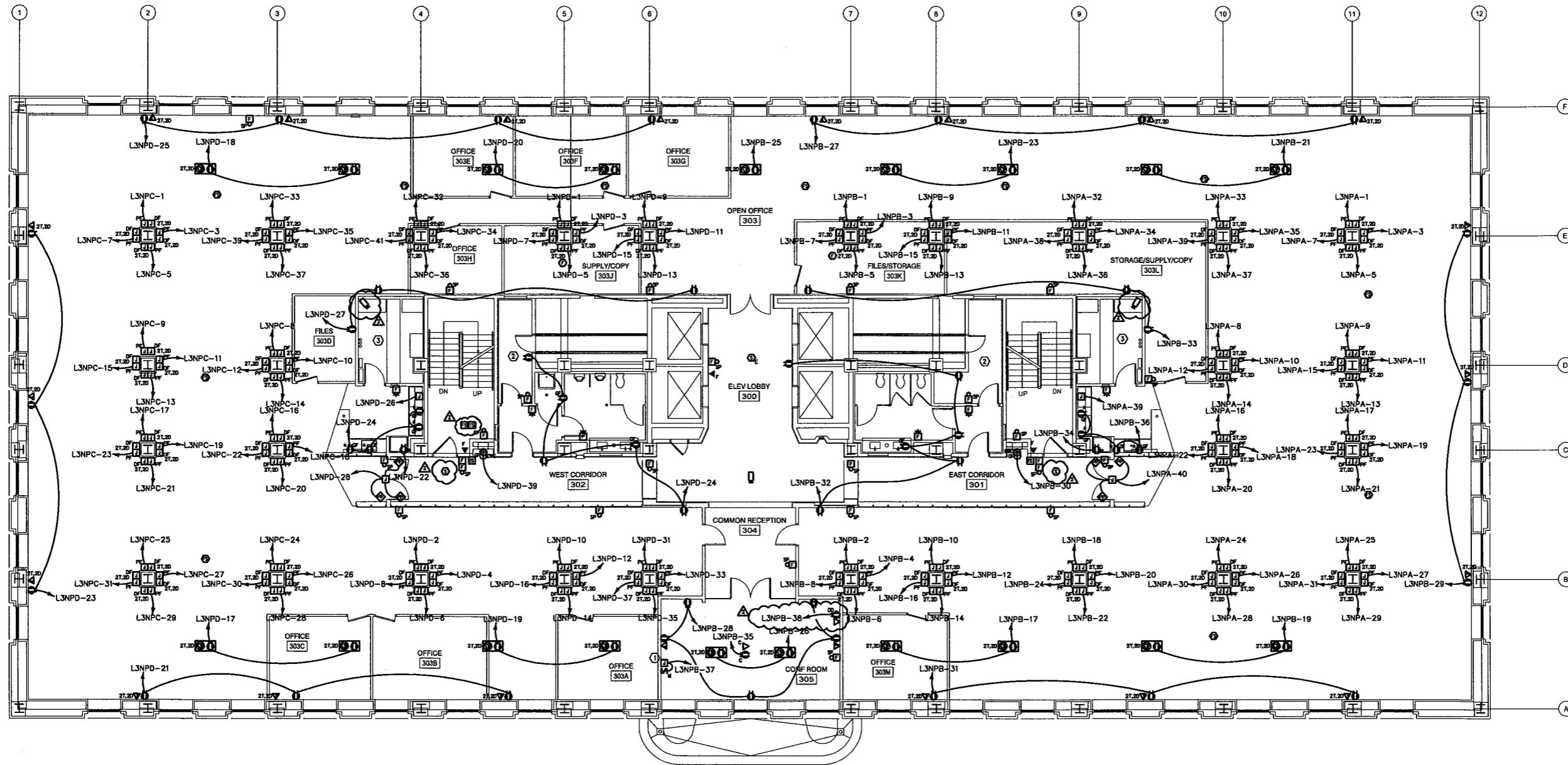


**GENERAL NOTES**

- ALL CEILING MOUNTED ELECTRICAL DEVICES MOUNTED IN THE CEILING GRID BETWEEN THE EXTERIOR WALL AND THE BULKHEAD AROUND THE CORE AREA SHALL BE PROVIDED WITH A 10' WHIP OF ADDITIONAL FLEXIBLE CONDUIT AND WIRE SO THAT IN CASE OF RECONFIGURATION OF THE PARTITIONS, THESE DEVICES MAY BE RELOCATED BY WEST VIRGINIA STATE CAPITOL FACILITIES STAFF WITHOUT ANY ADDITIONAL WIRING.

**NUMBERED NOTES**

- PROVIDE POWER CONNECTION TO MOTORIZED PROJECTOR SCREEN.
- SEE ENLARGED ELECTRICAL ROOMS DRAWING FOR ELECTRICAL EQUIPMENT LOCATIONS IN THE ELECTRICAL ROOM.
- SEE ENLARGED TELECOMMUNICATIONS ROOMS DRAWING FOR TELECOMMUNICATIONS LAYOUT AND ELECTRICAL EQUIPMENT IN THIS ROOM. COORDINATE THE EXACT ELECTRICAL CONNECTION TYPES AND LOCATIONS FOR THIS ROOM WITH THE WEST VIRGINIA OFFICE OF TECHNOLOGY PRIOR TO ROUGH IN.



**1 THIRD FLOOR PLAN - POWER & SYSTEMS**  
EP-103 1/8" = 1'-0"

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THIRD FLOOR PLAN -  
POWER & SYSTEMS

**EP-103**

**GENERAL NOTES**

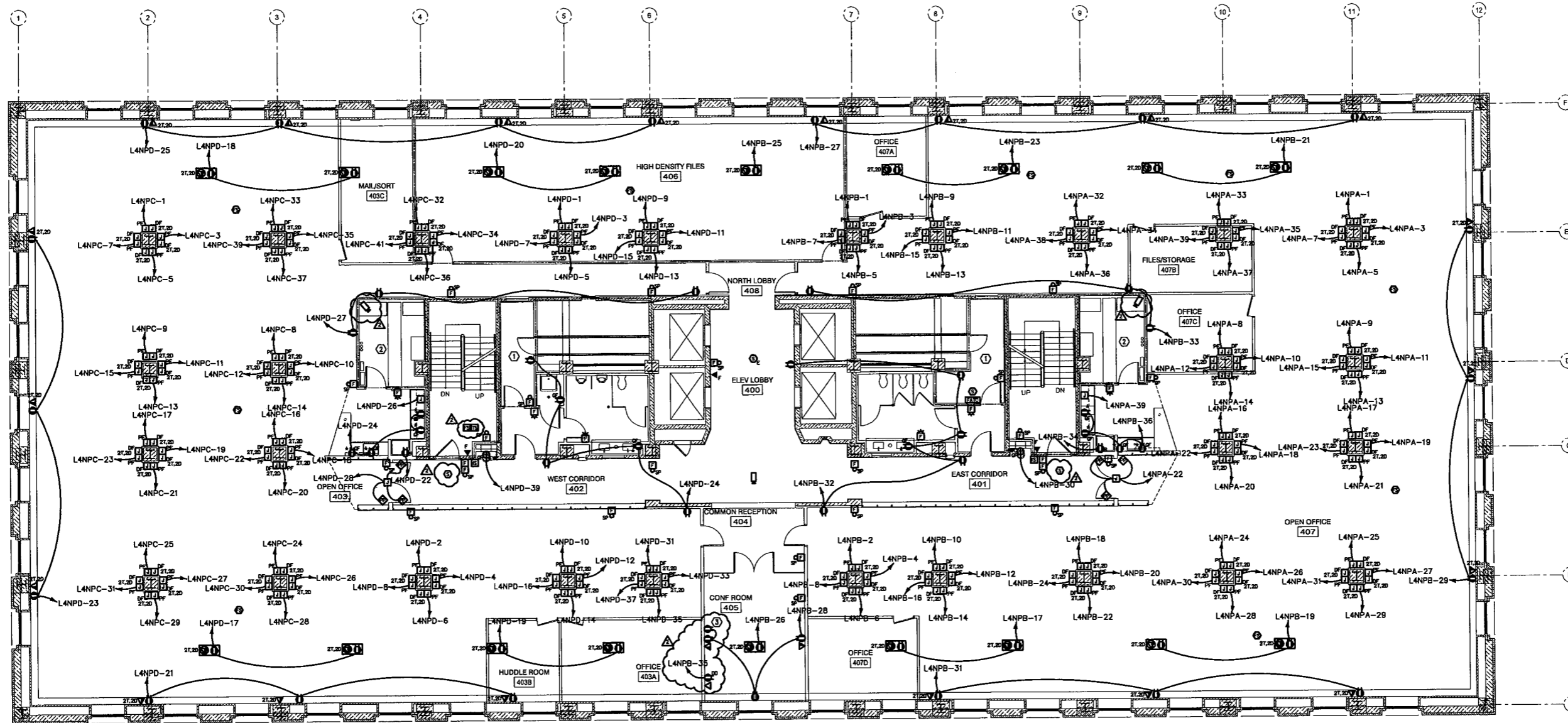
- ALL CEILING MOUNTED ELECTRICAL DEVICES MOUNTED IN THE CEILING GRID BETWEEN THE EXTERIOR WALL AND THE BULKHEAD AROUND THE CORE AREA SHALL BE PROVIDED WITH A 10' WHP OF ADDITIONAL FLEXIBLE CONDUIT AND WIRE SO THAT IN CASE OF RECONFIGURATION OF THE PARTITIONS, THESE DEVICES MAY BE RELOCATED BY WEST VIRGINIA STATE CAPITOL FACILITIES STAFF WITHOUT ANY ADDITIONAL WIRING.

**NUMBERED NOTES**

- SEE ENLARGED ELECTRICAL ROOMS DRAWING FOR ELECTRICAL EQUIPMENT LOCATIONS IN THE ELECTRICAL ROOM.
- SEE ENLARGED TELECOMMUNICATIONS ROOMS DRAWING FOR TELECOMMUNICATIONS LAYOUT AND ELECTRICAL EQUIPMENT IN THIS ROOM. COORDINATE THE EXACT ELECTRICAL CONNECTION TYPES AND LOCATIONS FOR THIS ROOM WITH THE WEST VIRGINIA OFFICE OF TECHNOLOGY PRIOR TO ROUGH-IN.
- DUPLEX RECEPTACLE FOR FLAT PANEL DISPLAY. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.

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**1 FOURTH FLOOR PLAN - POWER & SYSTEMS**  
EL-104 1/8" = 1'-0"

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**FOURTH FLOOR PLAN -  
POWER & SYSTEMS**

**EP-104**

**GENERAL NOTES**

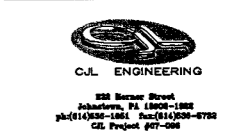
1. ALL CEILING MOUNTED ELECTRICAL DEVICES MOUNTED IN THE CEILING GRID BETWEEN THE EXTERIOR WALL AND THE BULKHEAD AROUND THE CORE AREA SHALL BE PROVIDED WITH A 10' WHIP OF ADDITIONAL FLEXIBLE CONDUIT AND WIRE SO THAT IN CASE OF RECONFIGURATION OF THE PARTITIONS, THESE DEVICES MAY BE RELOCATED BY WEST VIRGINIA STATE CAPITOL FACILITIES STAFF WITHOUT ANY ADDITIONAL WIRING.

**NUMBERED NOTES**

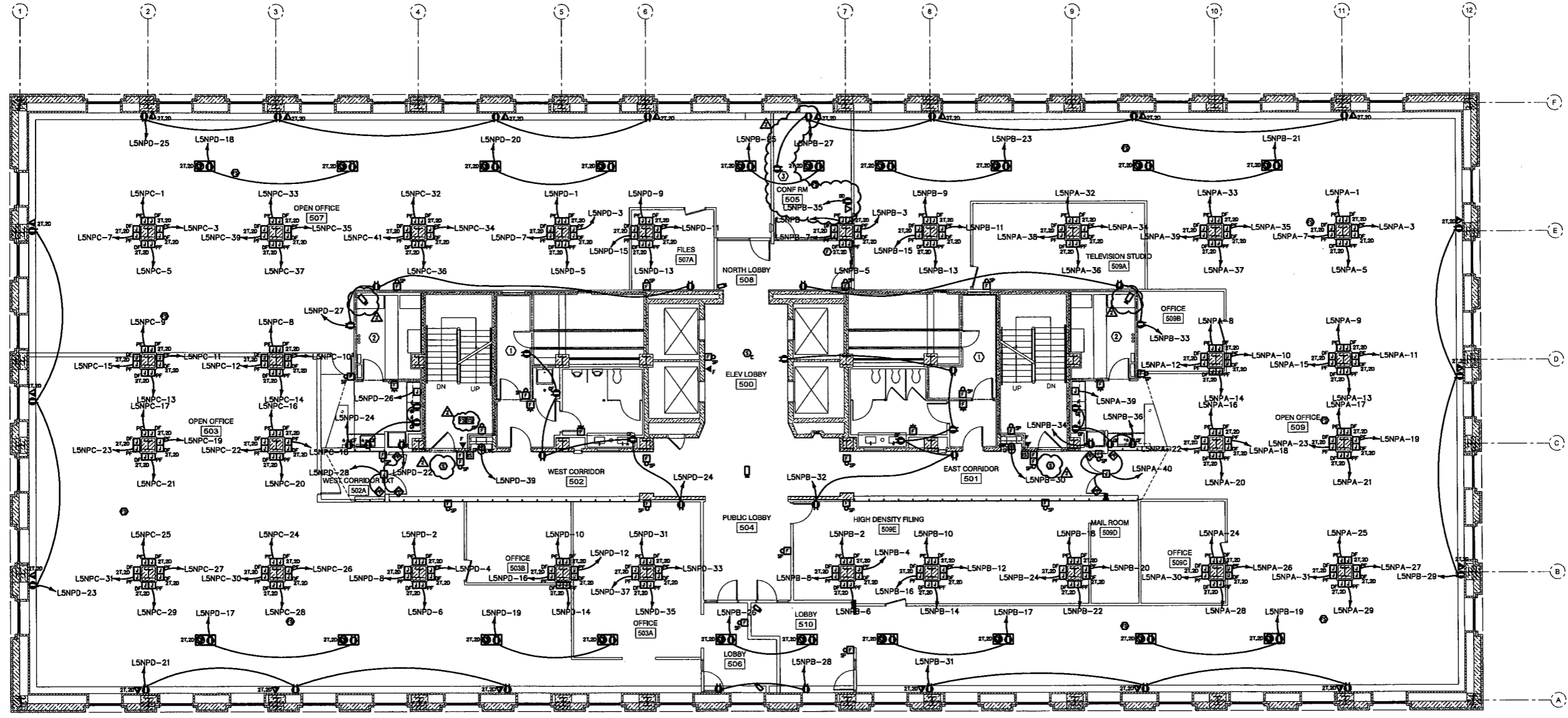
1. SEE ENLARGED ELECTRICAL ROOMS DRAWING FOR ELECTRICAL EQUIPMENT LOCATIONS IN THE ELECTRICAL ROOM.
2. SEE ENLARGED TELECOMMUNICATIONS ROOMS DRAWING FOR TELECOMMUNICATIONS LAYOUT AND ELECTRICAL EQUIPMENT IN THIS ROOM. COORDINATE THE EXACT ELECTRICAL CONNECTION TYPES AND LOCATIONS FOR THIS ROOM WITH THE WEST VIRGINIA OFFICE OF TECHNOLOGY PRIOR TO ROUGH-IN.
3. DUPLEX RECEPTACLE FOR FLAT PANEL DISPLAY. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.



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 Johnston, PA 15202-1802  
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 Cell Project #67-004



**FIFTH FLOOR PLAN - POWER & SYSTEMS**  
 EL-105 1/8" = 1'-0"

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FIFTH FLOOR PLAN - POWER  
 & SYSTEMS

**EP-105**

**GENERAL NOTES**

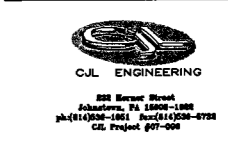
1. ALL CEILING MOUNTED ELECTRICAL DEVICES MOUNTED IN THE CEILING GRID BETWEEN THE EXTERIOR WALL AND THE BULKHEAD AROUND THE CORE AREA SHALL BE PROVIDED WITH A 10' WHIP OF ADDITIONAL FLEXIBLE CONDUIT AND WIRE SO THAT IN CASE OF RECONFIGURATION OF THE PARTITIONS, THESE DEVICES MAY BE RELOCATED BY WEST VIRGINIA STATE CAPITOL FACILITIES STAFF WITHOUT ANY ADDITIONAL WIRING.

**NUMBERED NOTES**

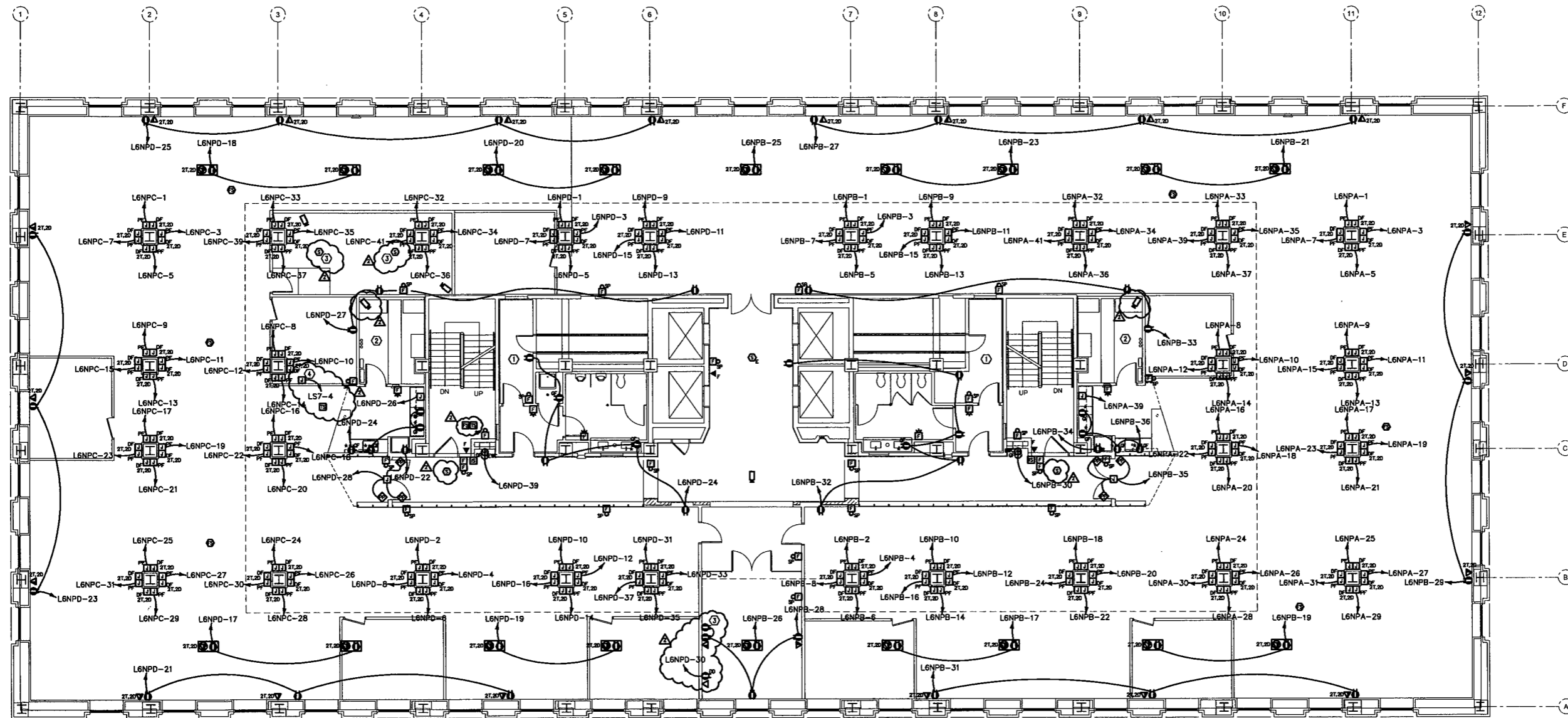
1. SEE ENLARGED ELECTRICAL ROOMS DRAWING FOR ELECTRICAL EQUIPMENT LOCATIONS IN THE ELECTRICAL ROOM.
2. SEE ENLARGED TELECOMMUNICATIONS ROOMS DRAWING FOR TELECOMMUNICATIONS LAYOUT AND ELECTRICAL EQUIPMENT IN THIS ROOM. COORDINATE THE EXACT ELECTRICAL CONNECTION TYPES AND LOCATIONS FOR THIS ROOM WITH THE WEST VIRGINIA OFFICE OF TECHNOLOGY PRIOR TO ROUGH IN.
3. DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
4. PRE-ACTION CABINET, E.C. SHALL PROVIDE POWER TO CABINET AS SHOWN. ADDITIONALLY, E.C. SHALL PROVIDE CONNECTION TO FIRE ALARM SYSTEM FROM DRY CONTACT RELAYS IN CABINET. COORDINATE ALL WIRING REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR. E.C. SHALL PROVIDE 277V TO 120V TRANSFORMER.
5. DUPLEX RECEPTACLE FOR FLAT PANEL DISPLAY. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.



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Johnstown, PA 15802-1000  
ph:(412)608-1051 fax:(412)608-0728  
C.E. Project #07-008



**SIXTH FLOOR PLAN - POWER & SYSTEMS**  
EL-106 1/8" = 1'-0"

PWWG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

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BUILDING NO. 3, CAPITOL COMPLEX  
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SIXTH FLOOR PLAN - POWER  
& SYSTEMS

**EP-106**

**GENERAL NOTES**

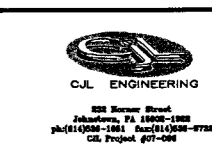
1. ALL CEILING MOUNTED ELECTRICAL DEVICES MOUNTED IN THE CEILING GRID BETWEEN THE EXTERIOR WALL AND THE BULKHEAD AROUND THE CORE AREA SHALL BE PROVIDED WITH A 10' WHIP OF ADDITIONAL FLEXIBLE CONDUIT AND WIRE SO THAT IN CASE OF RECONFIGURATION OF THE PARTITIONS, THESE DEVICES MAY BE RELOCATED BY WEST VIRGINIA STATE CAPITOL FACILITIES STAFF WITHOUT ANY ADDITIONAL WIRING.

**NUMBERED NOTES**

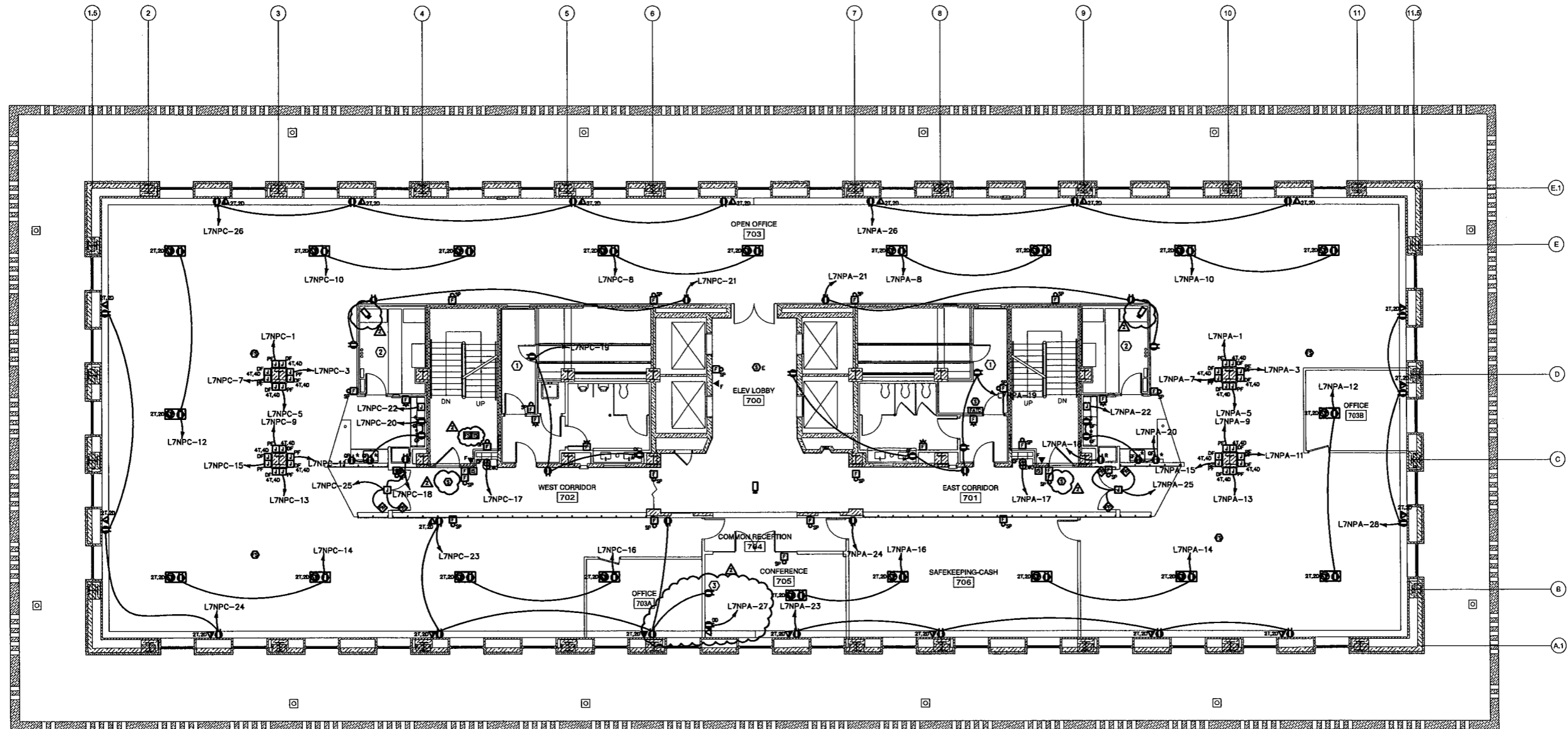
- ① SEE ENLARGED ELECTRICAL ROOMS DRAWING FOR ELECTRICAL EQUIPMENT LOCATIONS IN THE ELECTRICAL ROOM.
- ② SEE ENLARGED TELECOMMUNICATIONS ROOMS DRAWING FOR TELECOMMUNICATIONS LAYOUT AND ELECTRICAL EQUIPMENT IN THIS ROOM. COORDINATE THE EXACT ELECTRICAL CONNECTION TYPES AND LOCATIONS FOR THIS ROOM WITH THE WEST VIRGINIA OFFICE OF TECHNOLOGY PRIOR TO ROUGH IN.
- ③ DUPLEX RECEPTACLE FOR FLAT PANEL DISPLAY. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.



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C.J.L. ENGINEERING  
 828 Monroe Street  
 Johnstown, PA 15802-1502  
 ph:(412)842-1881 fax:(412)842-8728  
 cell:(412)842-8728



**1 SEVENTH FLOOR PLAN - POWER & SYSTEMS**  
 EP-107 1/8" = 1'-0"

PWWG PROJECT NO. 20703.00  
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1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

SEVENTH FLOOR PLAN -  
 POWER & SYSTEMS

**EP-107**

**GENERAL NOTES**

1. ALL CEILING MOUNTED ELECTRICAL DEVICES MOUNTED IN THE CEILING GRID BETWEEN THE EXTERIOR WALL AND THE BULKHEAD AROUND THE CORE AREA SHALL BE PROVIDED WITH A 10' WHIP OF ADDITIONAL FLEXIBLE CONDUIT AND WIRE SO THAT IN CASE OF RECONFIGURATION OF THE PARTITIONS, THESE DEVICES MAY BE RELOCATED BY WEST VIRGINIA STATE CAPITOL FACILITIES STAFF WITHOUT ANY ADDITIONAL WIRING.

**NUMBERED NOTES**

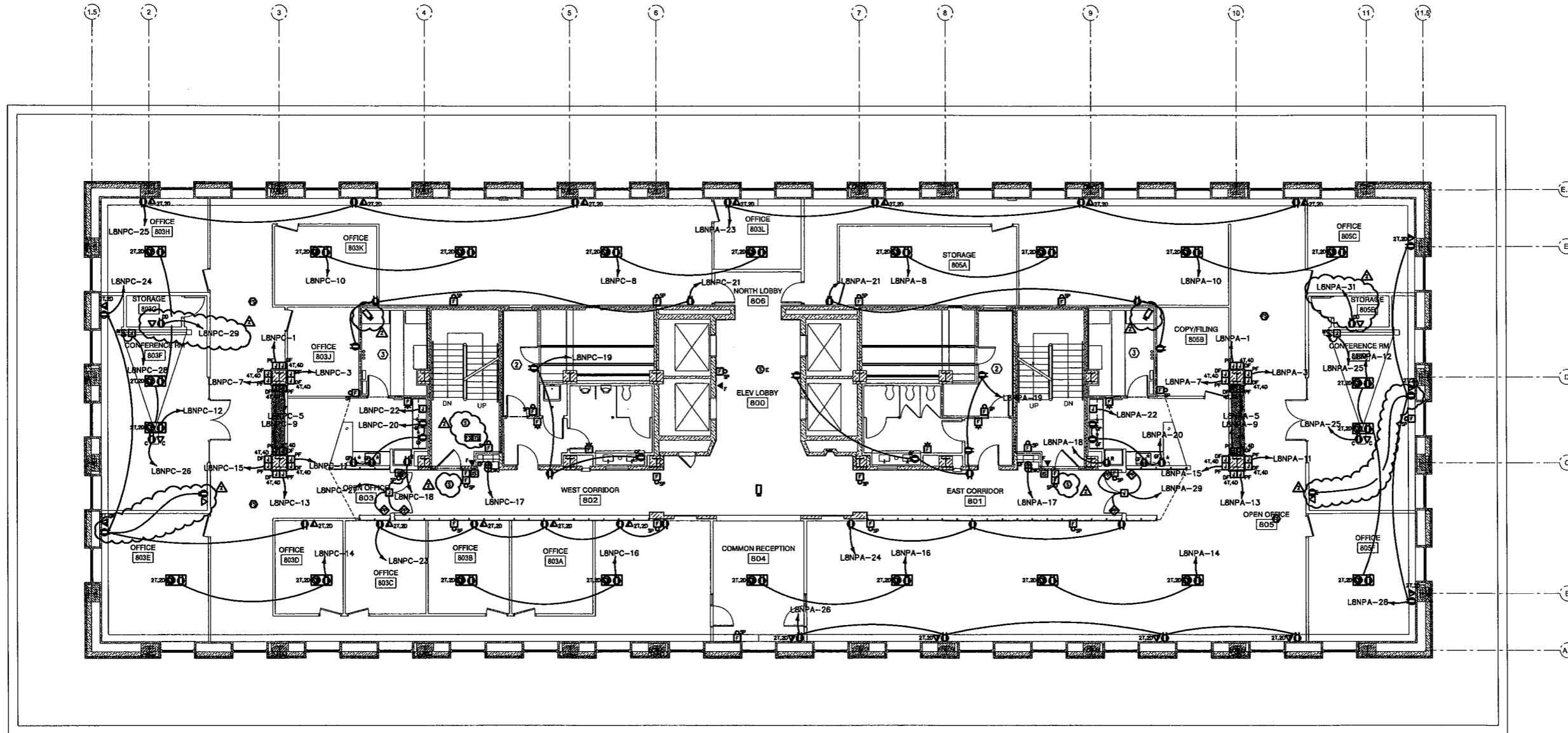
1. PROVIDE POWER CONNECTION TO MOTORIZED PROJECTOR SCREEN.
2. SEE ENLARGED ELECTRICAL ROOMS DRAWING FOR ELECTRICAL EQUIPMENT LOCATIONS IN THE ELECTRICAL ROOM.
3. SEE ENLARGED TELECOMMUNICATIONS ROOMS DRAWING FOR TELECOMMUNICATIONS LAYOUT AND ELECTRICAL EQUIPMENT IN THIS ROOM. COORDINATE THE EXACT ELECTRICAL CONNECTION TYPES AND LOCATIONS FOR THIS ROOM WITH THE WEST VIRGINIA OFFICE OF TECHNOLOGY PRIOR TO ROUGH IN.



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228 Kanawha Street  
Charleston, PA 15005-1001  
ph: (412) 391-1811 fax: (412) 391-5728  
C.E. Project #07-006



**1 EIGHTH FLOOR PLAN - POWER & SYSTEMS**  
EL-108 1/8" = 1'-0"

PWWG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010

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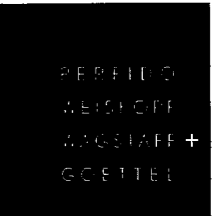
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CHARLESTON, WEST VIRGINIA 25305

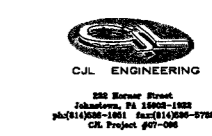
EIGHTH FLOOR PLAN -  
POWER & SYSTEMS

**EP-108**



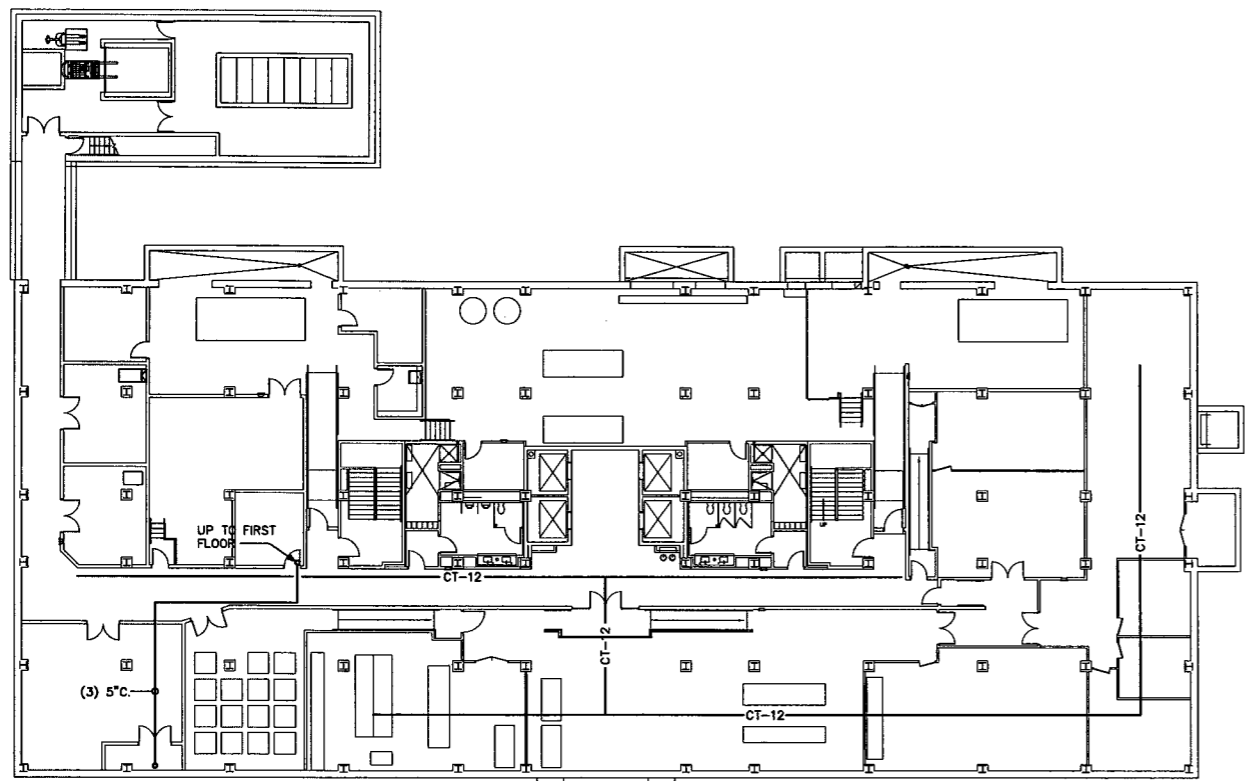


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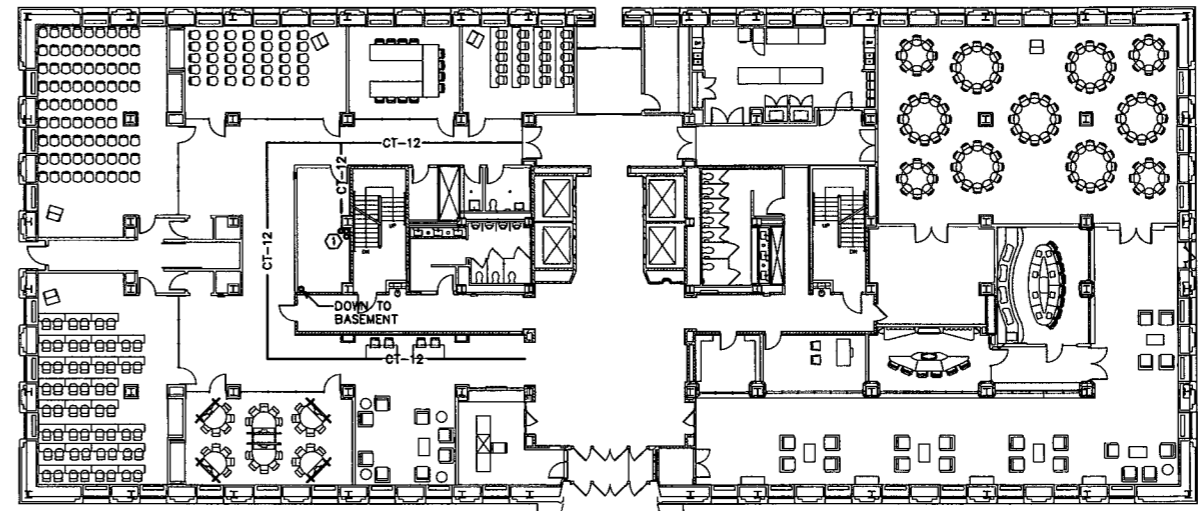
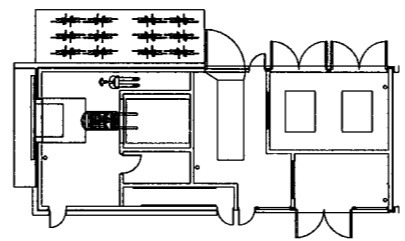


330 Kenner Street  
 Johnstown, PA 15902-1822  
 PA-(412)398-1881 FAX-(412)398-2728  
 C/L Project #07-008

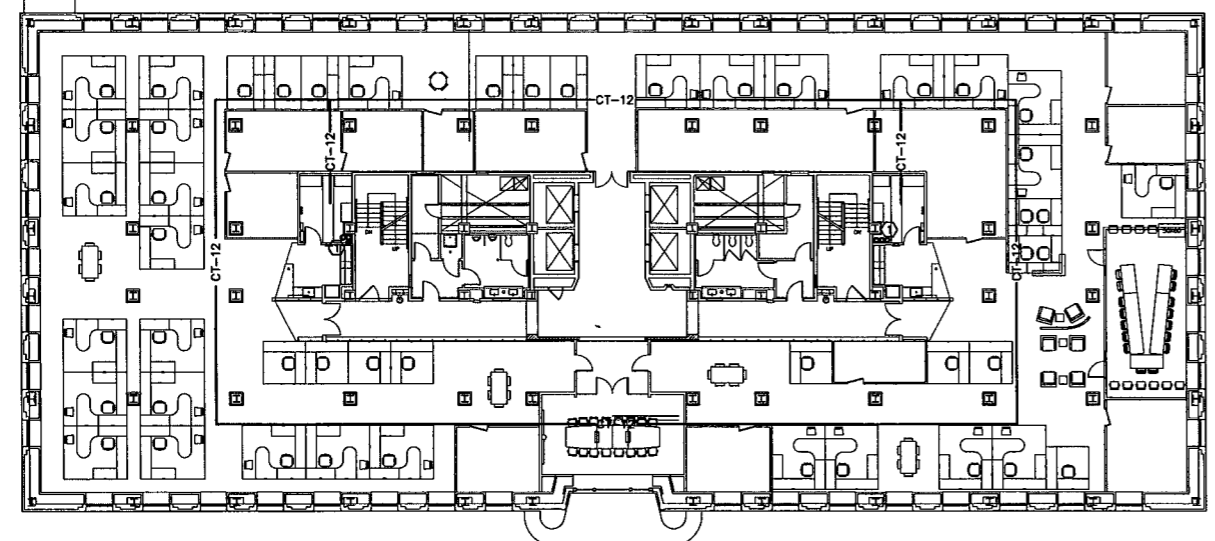
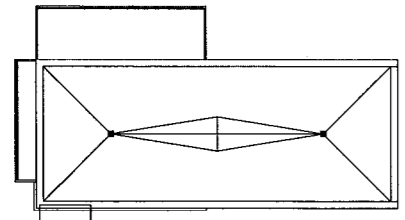
NUMBERED NOTES  
 (1) (3) 5" CONDUIT SLEEVES WITH GROMITS IN FLOOR FOR TELEDATA CABLING. (TYPICAL FOR FLOORS 1-7)



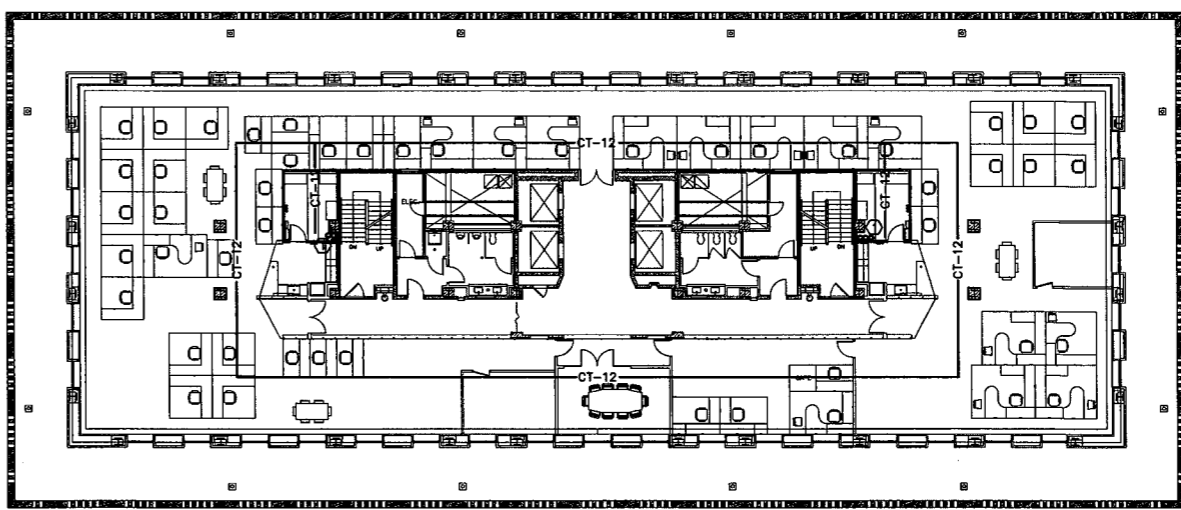
1 BASEMENT PLAN - CABLE TRAY LAYOUT  
 EP-110 1/16" = 1'-0"



2 FIRST FLOOR PLAN - CABLE TRAY LAYOUT  
 EP-110 1/16" = 1'-0"



3 TYPICAL SECOND-SIXTH FLOOR PLAN - CABLE TRAY LAYOUT  
 EP-110 1/16" = 1'-0"



4 TYPICAL SEVENTH & EIGHTH FLOOR PLAN - CABLE TRAY LAYOUT  
 EP-110 1/16" = 1'-0"

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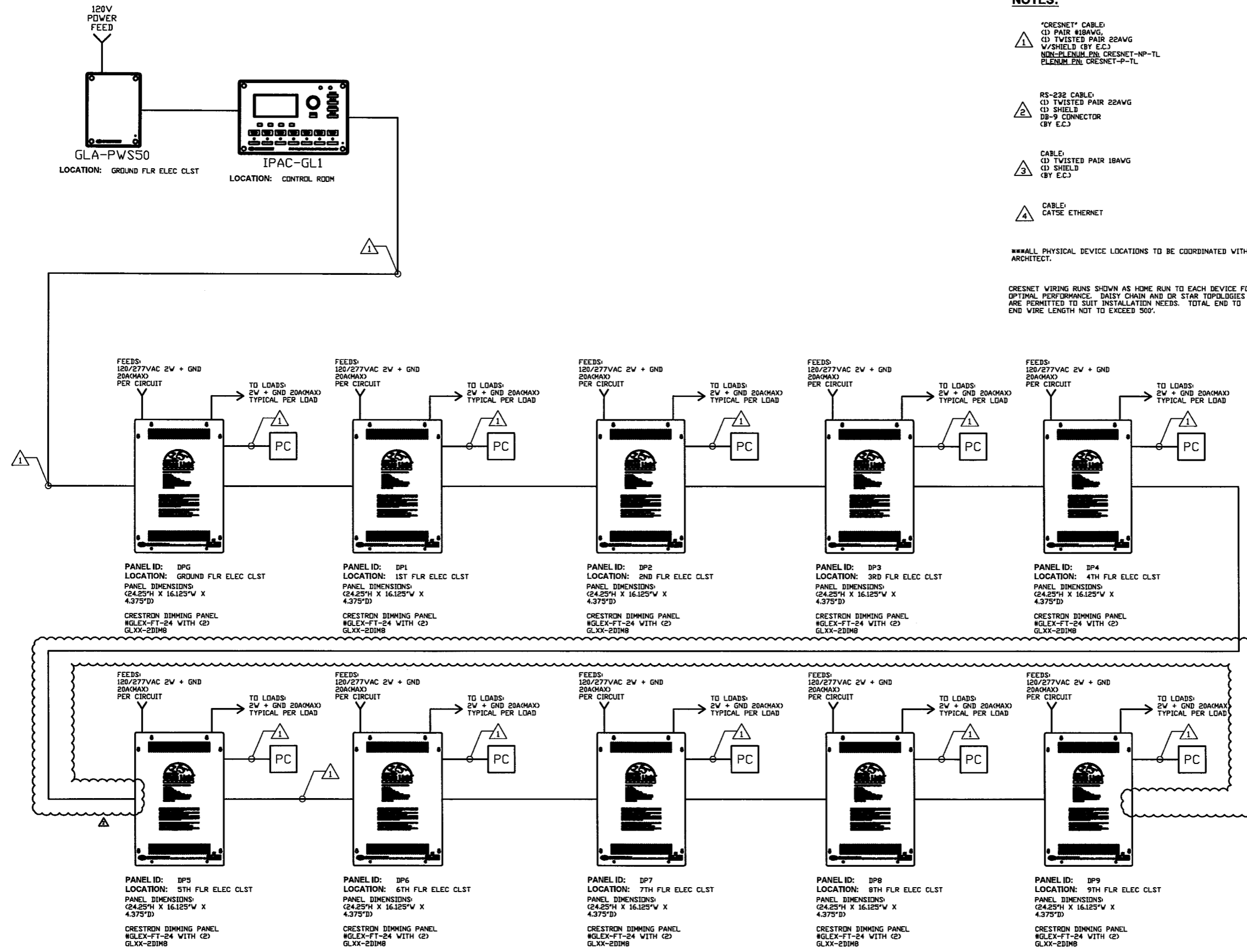
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WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION

1800 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

CABLE TRAY LAYOUT

EP-110



**NOTES:**

1 CRESNET® CABLE:  
 (1) PAIR #18AWG,  
 (1) TWISTED PAIR 22AWG  
 W/SHIELD (BY E.C.)  
 NON-FLENUM PNL CRESNET-NP-TL  
 FLENUM PNL CRESNET-P-TL

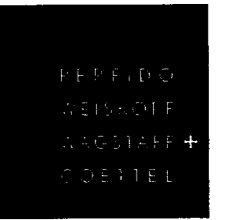
2 RS-232 CABLE:  
 (1) TWISTED PAIR 22AWG  
 (1) SHIELD  
 DB-9 CONNECTOR  
 (BY E.C.)

3 CABLE:  
 (1) TWISTED PAIR 18AWG  
 (1) SHIELD  
 (BY E.C.)

4 CABLE:  
 CAT5E ETHERNET

\*\*\*ALL PHYSICAL DEVICE LOCATIONS TO BE COORDINATED WITH ARCHITECT.

CRESNET WIRING RUNS SHOWN AS HOME RUN TO EACH DEVICE FOR OPTIMAL PERFORMANCE. DAISY CHAIN AND OR STAR TOPOLOGIES ARE PERMITTED TO SUIT INSTALLATION NEEDS. TOTAL END TO END WIRE LENGTH NOT TO EXCEED 500'.



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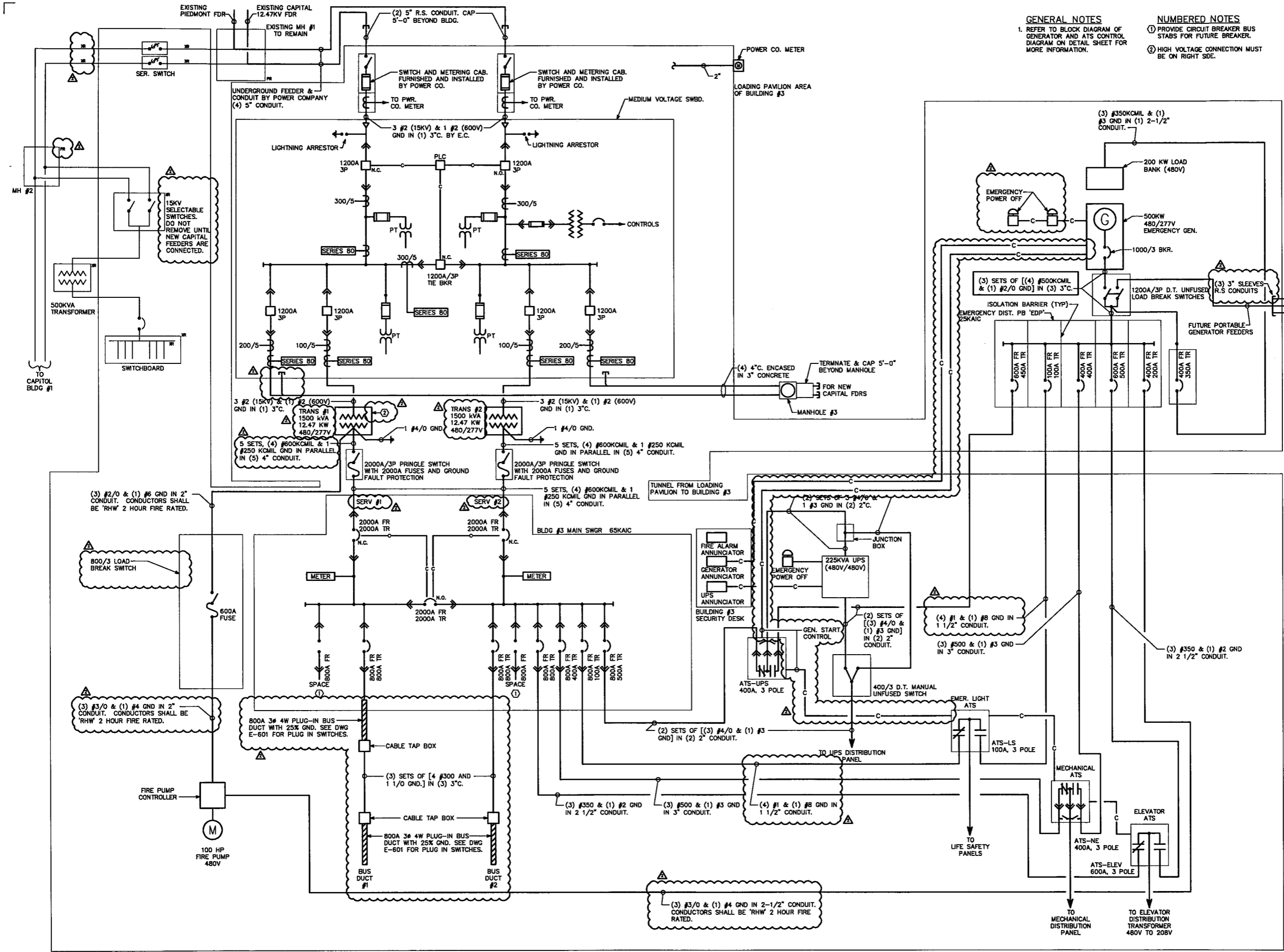
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DETAILS V

**1 LIGHTING CONTROL SYSTEM WIRING DIAGRAM**  
 E-504 NOT TO SCALE

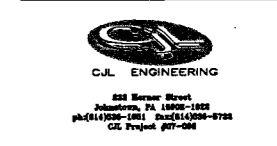


**GENERAL NOTES**  
 1. REFER TO BLOCK DIAGRAM OF GENERATOR AND ATS CONTROL DIAGRAM ON DETAIL SHEET FOR MORE INFORMATION.

**NUMBERED NOTES**  
 ① PROVIDE CIRCUIT BREAKER BUS STABS FOR FUTURE BREAKER.  
 ② HIGH VOLTAGE CONNECTION MUST BE ON RIGHT SIDE.

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4 BOULEVARD OF THE ALLIES  
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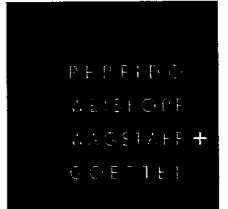
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**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

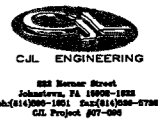
SINGLE LINE RISER DIAGRAM  
 POWER DISTRIBUTION  
 SYSTEM

**E-600**

**1 SINGLE LINE DIAGRAM POWER DISTRIBUTION SYSTEM**  
 E-600 NO SCALE



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 RENOVATION

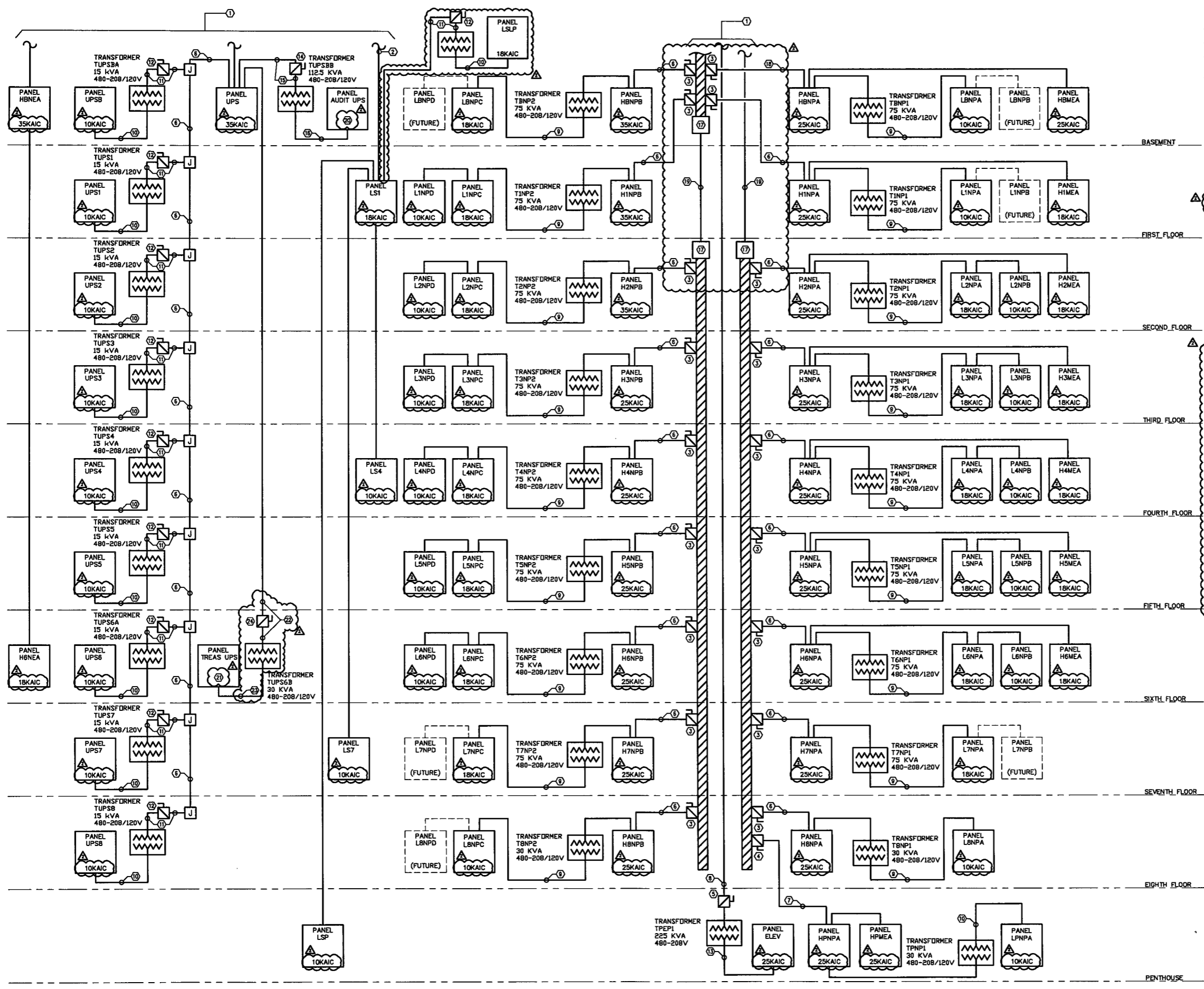
1800 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

RISER DIAGRAM II

E-601

NUMBERED NOTES:

- ① CONTINUED FROM DRAWING E-600
- ② TO EMERGENCY LIGHTING ATS.
- ③ 225A FUSIBLE BUS PLUG WITH 225A FUSES.
- ④ 400A FUSIBLE BUS PLUG WITH 400A FUSES.
- ⑤ 600A FUSIBLE SAFETY SWITCH WITH 500A FUSES.
- ⑥ (4) #4/0 AND (1) #4 GND IN (1) 2 1/2" CONDUIT.
- ⑦ (4) #500 AND (1) #3 GND IN (1) 3" CONDUIT.
- ⑧ (3) #350 AND (1) #2 GND IN (1) 2 1/2" CONDUIT.
- ⑨ (4) #300 AND (1) #4 GND IN (1) 2 1/2" CONDUIT.
- ⑩ (4) #6 AND (1) #10 GND IN (1) CONDUIT.
- ⑪ (3) #10 AND (1) #10 GND IN (1) 3/4" CONDUIT.
- ⑫ 30A FUSIBLE SAFETY SWITCH WITH 30A FUSES.
- ⑬ (2) SETS OF [(4) #600 AND (1) #1/0 GND] IN (2) 5 1/2" CONDUITS.
- ⑭ 400A FUSIBLE SAFETY SWITCH WITH 250A FUSES.
- ⑮ (3) #2/0 AND (1) #4 GND IN 2" CONDUIT.
- ⑯ (2) SETS OF [(4) #3/0 AND (1) #3 GND] IN (2) 2" CONDUITS.
- ⑰ CABLE TAP BOX.
- ⑱ (4) #500 AND (1) #3 GND IN 3" CONDUIT.
- ⑲ (3) SETS OF [(3) #300 AND (1) #1/0 GND] IN (3) 3" CONDUITS.
- ⑳ PROVIDE 120/208V PANEL TO FEED AUDITOR'S DATA RACKS. PANEL SHALL BE 3PH, 4W, 400A 18KAIC PANEL COORDINATE BRANCH BREAKERS WITH THE PANEL CURRENTLY SERVING THE AUDITOR'S UPS IN BUILDING #1. PRIOR TO PURCHASE, BID SHALL INCLUDE (1) 80A/3P, (2) 80A/2P, (1) 30A/2P, (1) 60A/2P, (1) 50A/2P, (26) 20A/1P.
- ㉑ PROVIDE 120/208V PANEL TO FEED TREASURER'S DATA RACKS. PANEL SHALL BE 3PH, 4W, 100A 10KAIC PANEL COORDINATE BRANCH BREAKERS WITH THE PANEL CURRENTLY SERVING THE TREASURER'S UPS IN BUILDING #1. PRIOR TO PURCHASE, BID SHALL INCLUDE (10) 30A/2P & (4) 20A/1P.
- ㉒ (3) #6 AND (1) #10 GND IN (1) 3/4" CONDUIT.
- ㉓ (4) #1 AND (1) #6 GND IN (1) 1 1/2" CONDUIT.
- ㉔ 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES.



**LIGHTING FIXTURE SCHEDULE**

TYPE	DESCRIPTION	NUMBER OF LAMPS AND WATTAGE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TYPE OF MOUNTING	APPROVED EQUAL MANUFACTURERS
A	RECESSED 6"X4" TROFFER	(1) 28 TS SPX35	Pinnacle	ETA-1T5-4-G9-UNV-10-W	277	RECESSED	FOCAL POINT ZUMTobel
A1	PENDANT MOUNTED DIRECT/INDIRECT FIXTURE	(2) 28 TS SPX35	LEDALITE	7306-FR21-G-4 (PER PLANS)-2 E-W	277	PENDANT	FOCAL POINT ZUMTobel
A2	RECESSED 6"X4" TROFFER	(1) 28 TS SPX35	Pinnacle	ETA-1T5-4-G9-UNV-10-W	277	RECESSED	FOCAL POINT ZUMTobel
A3	RECESSED 4" LOW VOLTAGE DOWNLIGHT	(1) 50W MR16 USHD 10,000HR	CAPRI	PA-LVR-EB1-PA-LRW	277	RECESSED	SPECTRUM HALO
B	2'X2' TROFFER	(4) 35W T5 SPX35	LINEAR LIGHTING	0822-D-4-ETS-277-PRD-G-BW-ND-2	277	RECESSED	FOCAL POINT PMC
C	COMPACT FLUORESCENT LENSED DOWNLIGHT	(2) 28W TT	OMEGA	OM6 2-26PLT SRD SPL CL 120/277	277	RECESSED	SPECTRUM PORTFOLIO
D	RECESSED WALL SLOT (4' FIXTURE)	(3) 28 TS SPX35	LITECONTROL	20-1-4-T5-CWM-LP/ELB-277	277	RECESSED	PRUDENTIAL NEGRAY
D1	RECESSED WALL SLOT (3' FIXTURE)	(3) 28 TS SPX35	LITECONTROL	20-1-4-T5-CWM-LP/ELB-277	277	RECESSED	PRUDENTIAL NEGRAY
F	4' INDUSTRIAL WITH WIRE GUARD	(2) 28 TS SPX35	DAY-BRITE	1F-228-PP-UNV-12ES10R-FL173	277	CHAIN	LITHONIA METALUX
G	2'X4' LENSED TROFFER	(2) 28 TS SPX35	DAY-BRITE	2ST0228D-UNV-V2-EB115	277	RECESSED	FINELITE METALUX
J	COMPACT FLUOR. WALL SCONCE	(2) CF18W	DAY-BRITE	AVS02CF18-PWW-UNV-EB	277	WALL	LIGHTBURY SHAPER
P	GLASS SHADE MONOPOINT	(1) 50W MR16 USHD 10,000HR	SOLIS	TX141LV-BL-GYC-50-M-A	277	PENDANT	NORA PRIMA
S	8"X4" WALL MOUNTED STAIRWELL FIXTURE	(2) 28 TS SPX35	KENALL	MLH48-48-R-MW-CP-28-RS-1-DV	277	SURFACE	LUMINAIRE FAILSAFE
S1	12"X4" CEILING MOUNTED STAIRWELL FIXTURE	(2) 28 TS SPX35	KENALL	MLH412-48-R-MW-CP-28-RS-1-DV	277	SURFACE	LUMINAIRE FAILSAFE
SL	ACORN STYLE FULL-CUTOFF 4500K LED SITE LIGHTING FIXTURE WITH TYPE Y DISK AND 12" POLE. COLOR/FINISH TO MATCH EXISTING	90W LED	STERNBERG LIGHTING	AK60SRLED-SP-ML-6ARC45T5-XX POLE: 93-12-TD	277	POLE	SPRING CITY AMERLIK
T	LENSED SHOWER DOWNLIGHT	(1) 28W TT	OMEGA	S6-1H26/3242PLT-U-TOSFD-1H-SHW-CP	277	RECESSED	SPECTRUM PORTFOLIO
W	WALL MOUNTED BATHROOM SCONCE	(2) 28 TS SPX35	DAY-BRITE	AVS228-PWW-UNV-12-EB10R	277	WALL	PRUDENTIAL ECLIPSE
X	15"X15" ART DECO SQUARE DOWNLIGHT	(2) 28W G4Q-3	SCOTT ARCHITECTURAL	S7045-2C28E-88-DIM	277	RECESSED	SPECTRUM OMEGA
X2	20"X20" ART DECO SQUARE DOWNLIGHT	(4) 28W G4Q-3	SCOTT ARCHITECTURAL	S7046-4C28E-88-DIM	277	RECESSED	SPECTRUM OMEGA
Y	LED ROPE LIGHT	LED	TIVOLI	CLL-SF-2.0-WW-12	12V	COVE	TOGSTAR LEDALUX
Z	6" SQUARE DOWNLIGHT	(2) 32W TT	OMEGA	OM6 2 H 32PLT SQ CSS SL DL2 277	277	RECESSED	SPECTRUM OMEGA
EP	ELEVATOR PIT LIGHT	(1) 28W TT	CANLET	GFWF28WZ7DPPC	277	WALL	PHOENIX TRACELITE
	LED EXIT SIGN	LED	MCPHILBEN	55L-1-R	277	UNIVERSAL	LITHONIA SURELITES

MOUNTING HEIGHT INFORMATION:  
 FIXTURE TYPE A1: 12'-5" A.F.F. ON THE FIRST FLOOR, 7'-4" A.F.F. ON FLOORS 2-5, AND 7'-1" A.F.F. ON FLOORS 6-8  
 FIXTURE TYPE P: BOTTOM OF THE FIXTURE SHALL BE MOUNTED AT 6'-0" A.F.F.  
 EMERGENCY CIRCUITS:  
 ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH A BODINE GENERATOR TRANSFER DEVICE. EMERGENCY CIRCUIT SHALL BE AS SHOWN ON THE PLANS. NORMAL CIRCUIT SHALL BE THE SAME DIMMABLE LIGHTING CIRCUIT FEEDING THE OTHER FIXTURES IN THE ROOM.



4 BOULEVARD OF THE ALLIES  
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**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

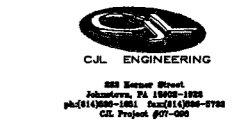
1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

FIXTURE SCHEDULE

**E-700**



4 BOULEVARD OF THE ALLIES  
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CCT. INCL.		WIRE	GNB	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GNB	WIRE	CCT. INCL.	CCT. NO.	
A			B			C			A			B			C			
					Bus Dist #1	200.1			100.0			Bus Dist #2						
					ATS-MPS	66.2			16.1			ATS-LS						
					ATS-HE	76.7			62.0			ATS-Elow						
						76.7			62.0									
PHASE CONNECTED LOAD [KVA]						462.1	462.1	462.1	258.0	258.0	258.0	DIVERS. RECEPTACLE LOAD [KVA]						0.0
TOTAL CONNECTED LOAD [KVA]						2165.3						DIVERS. LTG AND GENERAL LOAD [KVA]						0.0
TOTAL CONNECTED LOAD [A]						2833.5						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						6.0						TOTAL DIVERSIFIED LOAD [A]						6.0

CCT. INCL.		WIRE	GNB	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GNB	WIRE	CCT. INCL.	CCT. NO.	
A			B			C			A			B			C			
					1.20 1	1.4											2	
					3.20 1	2.6											4	
					5.20 1	3.3											6	
PHASE CONNECTED LOAD [KVA]						1.4	2.6	3.3	61.0	61.0	66.0	DIVERS. RECEPTACLE LOAD [KVA]						0.0
TOTAL CONNECTED LOAD [KVA]						191.9						DIVERS. LTG AND GENERAL LOAD [KVA]						191.9
TOTAL CONNECTED LOAD [A]						236.8						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						296.5						TOTAL DIVERSIFIED LOAD [A]						236.8

CCT. INCL.		WIRE	GNB	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GNB	WIRE	CCT. INCL.	CCT. NO.	
A			B			C			A			B			C			
					GRINDER PUMP FOR SANITARY SYSTEM	0.9			2.1			SUMP PUMP FOR STORE SYSTEM	3/4	10	12	3	20	
					DOMESTIC WATER BOOSTER PUMP	4.1			3.7			AHU-1	3/4	10	10	3	10	
					AHU-2	3.7			0.9			AHU-3	3/4	8	8	3	10	
					AHU-4	0.9			0.9			GRAY WATER PUMP	3/4	10	10	3	20	
					FREIGHT ELEVATOR	28.0			0.8			GRAY WATER PUMP	3/4	10	10	3	20	
					SPARE				0.8			CP-1	3/4	12	12	3	34	
PHASE CONNECTED LOAD [KVA]						37.0	37.0	37.0	17.0	17.0	17.0	DIVERS. RECEPTACLE LOAD [KVA]						6.0
TOTAL CONNECTED LOAD [KVA]						164.4						DIVERS. LTG AND GENERAL LOAD [KVA]						0.0
TOTAL CONNECTED LOAD [A]						197.7						DIVERS. MOTOR LOAD [KVA]						172.3
125% OF DIVERSIFIED LOAD [A]						268.1						TOTAL DIVERSIFIED LOAD [A]						207.3

CCT. INCL.		WIRE	GNB	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GNB	WIRE	CCT. INCL.	CCT. NO.	
A			B			C			A			B			C			
					RECEPTS - RM B102	0.2			0.6			RECEPTS - RM B103	3/4	12	12	1	20	
					RECEPTS - RM B104	0.8			0.8			RECEPTS - RM B103, B104	3/4	12	12	1	20	
PHASE CONNECTED LOAD [KVA]						0.2	0.8	0.8	0.6	0.6	0.0	DIVERS. RECEPTACLE LOAD [KVA]						6.2
TOTAL CONNECTED LOAD [KVA]						2.2						DIVERS. LTG AND GENERAL LOAD [KVA]						2.0
TOTAL CONNECTED LOAD [A]						6.1						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						7.8						TOTAL DIVERSIFIED LOAD [A]						6.1

CCT. INCL.		WIRE	GNB	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GNB	WIRE	CCT. INCL.	CCT. NO.	
A			B			C			A			B			C			
					RECEPTS - RM B101	0.6			0.6			EWC - CORRIDOR B101A	3/4	12	12	1	20	
					RECEPTS - RM B101B	0.8			0.6			EWC - CORRIDOR B101A	3/4	12	12	1	20	
					RECEPTS - RM B101C	0.6			1.0			RECS - RM C101B, C101C, C101E, B101A	3/4	12	12	1	20	
					RECEPTS - RM B110	0.6			0.6			RECEPTS - RM B107	3/4	12	12	1	20	
					RECEPTS - RM B111, B110	0.6			0.6			RECEPTS - ELEVATOR FITS	3/4	12	12	1	20	
					RECS - RM B108, 109, 110, 112	0.6			0.6	0.4		ELEVATOR PIT LIGHTS	3/4	12	12	1	20	
					ELEVATOR SUMP PUMP	0.8			0.8			ELEVATOR SUMP PUMP	3/4	12	12	1	20	
					FLOOR BONES	1.0			1.0			MUR-1 & MUR-1	3/4	12	12	1	20	
					RECEPTS - B110	0.8			0.4	0.4		RECEPTS - B110	3/4	12	12	1	20	
					RECEPTS - B115	0.8			0.4	0.4		RECEPTS - B110	3/4	12	12	1	20	
					RECEPTS - B116	0.8			0.4	0.4		RECEPTS - B110	3/4	12	12	1	20	
					RECEPTS - B116	0.8			0.6	0.6		RECEPTS - B110	3/4	12	12	1	20	
					RECEPTS - B110	0.8			0.6	0.6		RECEPTS - B112, B114, B116	3/4	12	12	1	20	
PHASE CONNECTED LOAD [KVA]						3.6	3.6	3.6	3.5	3.3	2.2	DIVERS. RECEPTACLE LOAD [KVA]						8.0
TOTAL CONNECTED LOAD [KVA]						29.2						DIVERS. LTG AND GENERAL LOAD [KVA]						11.4
TOTAL CONNECTED LOAD [A]						66.1						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						70.1						TOTAL DIVERSIFIED LOAD [A]						66.1

CCT. INCL.		WIRE	GNB	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GNB	WIRE	CCT. INCL.	CCT. NO.	
A			B			C			A			B			C			
					1.20 1	1.1											2	
					3.20 1	2.1											4	
					5.20 1	2.6											6	
PHASE CONNECTED LOAD [KVA]						1.1	2.1	2.6	5.3	5.0	6.7	DIVERS. RECEPTACLE LOAD [KVA]						0.0
TOTAL CONNECTED LOAD [KVA]						22.8						DIVERS. LTG AND GENERAL LOAD [KVA]						22.8
TOTAL CONNECTED LOAD [A]						27.4						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						34.3						TOTAL DIVERSIFIED LOAD [A]						27.4

PWVG PROJECT NO. 20703.00  
100% CD SUBMISSION OCTOBER 8, 2010  
ADDENDUM #2 DECEMBER 8, 2010  
WEST VIRGINIA STATE OFFICE BUILDING NO.3 RENOVATION  
1900 KANAWHA BOULEVARD EAST BUILDING NO. 3, CAPITOL COMPLEX CHARLESTON, WEST VIRGINIA 25305  
PANEL SCHEDULES  
E-701



PANELBOARD L1MPC											SURFACE MOUNTED							
300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP																		
CIRCUIT BREAKER TYPE 208 / 120 3 Phase 4 Wires 60 HZ 400 AMP BUS																		
C.T.	CIRCUIT NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT NO.	C.T.				
						A	B	C							A	B	C	
1	20 1	12	12	3/4	RECEPTS - RM 3400	0.4			SPACE	3/4	12	12	1	20 2				
3	20 1	12	12	3/4	RECEPTS - RM 3100AL, 3100		1.0		SPACE	3/4	12	12	1	20 4				
5	20 1	12	12	3/4	RECEPTS - RM 3100AL, 3100			1.0	SPACE	3/4	12	12	1	20 6				
7	20 1	12	12	3/4	GRN - CORRIDOR BODYS	0.5			RECEPTS - LOADING DOCK	3/4	12	12	1	20 8				
9	20 1	12	12	3/4	RECS - RM C.VOL, C.LRM, C.LMWR		0.0	0.4	RECEPTS - LOADING DOCK	3/4	12	12	1	20 10				
11	20 1	12	12	3/4	RECEPTS - RM 3100		0.5	0.4	RECEPTS - LOADING DOCK	3/4	12	12	1	20 12				
13	20 1	12	12	3/4	RECEPTS - RM 3100, 3100	0.5			RECEPTS - LOADING DOCK	3/4	12	12	1	20 14				
15	20 1	12	12	3/4	SPACE			0.0	ELEVATOR PIT SURP PUMP	3/4	12	12	1	20 16				
17	20 1	12	12	3/4	FLOOR BODYS		0.0	0.2	ELEVATOR PIT RECEPTACLE	3/4	12	12	1	20 18				
19	20 1	12	12	3/4	FLOOR BODYS	1.0		2.0	FLOOR BODYS	3/4	12	12	1	20 20				
21	20 1	12	12	3/4	FLOOR BODYS		2.0		SPACE	3/4	12	12	1	20 22				
23	20 1	12	12	3/4	FLOOR BODYS		2.0		SPACE	3/4	12	12	1	20 24				
25	20 1				SPACE				SPACE	3/4	12	12	1	20 26				
27	20 1				SPACE				SPACE	3/4	12	12	1	20 28				
29	20 1				SPACE				SPACE	3/4	12	12	1	20 30				
31	20 1				SPACE				SPACE	3/4	12	12	1	20 32				
33	20 1				SPACE				SPACE	3/4	12	12	1	20 34				
35	20 1				SPACE				SPACE	3/4	12	12	1	20 36				
37	20 1				SPACE				SPACE	3/4	12	12	1	20 38				
39	20 1				SPACE				SPACE	3/4	12	12	1	20 40				
41	20 1				SPACE				SPACE	3/4	12	12	1	20 42				
PHASE CONNECTED LOAD [KVA]						2.5	3.0	5.1	DIVERS. RECEPTACLE LOAD [KVA]						12.0			
TOTAL CONNECTED LOAD [KVA]						A	5.3	B	5.0	C	5.7	DIVERS. LTG AND GENERAL LOAD [KVA]						1.5
TOTAL CONNECTED LOAD [A]						17.0						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						47.2						TOTAL DIVERSIFIED LOAD [A]						25.5
125% OF DIVERSIFIED LOAD [A]						48.4												

PANELBOARD UPS											SURFACE MOUNTED							
400 AMP MAIN CIRCUIT BREAKER W/ 400 AMP TRIP																		
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wires 60 HZ 400 AMP BUS																		
C.T.	CIRCUIT NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT NO.	C.T.				
						A	B	C							A	B	C	
1	20 3	3	3	B	1 1/4				ANNITOR'S UPS				2 1/2	4				
3	20 3	3	3	B	1 1/4				UPS BAKER				3 225	4				
5														6				
7														8				
9									SPACE				3	3				
11									TREASURER'S UPS				3	400				
13														12				
15									SPACE					14				
17									SPACE					16				
19									SPACE					18				
21									SPACE					20				
23									SPACE					22				
25									SPACE					24				
27									SPACE					26				
29									SPACE					28				
31									SPACE					30				
33									SPACE					32				
35									SPACE					34				
37									SPACE					36				
39									SPACE					38				
41									SPACE					40				
PHASE CONNECTED LOAD [KVA]						7.0	7.0	7.0	DIVERS. RECEPTACLE LOAD [KVA]						0.0			
TOTAL CONNECTED LOAD [KVA]						A	62.2	B	62.2	C	62.2	DIVERS. LTG AND GENERAL LOAD [KVA]						198.5
TOTAL CONNECTED LOAD [A]						108.5						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						208.0						TOTAL DIVERSIFIED LOAD [A]						238.0
125% OF DIVERSIFIED LOAD [A]						288.8												

PANELBOARD UPSB											SURFACE MOUNTED							
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																		
CIRCUIT BREAKER TYPE 208 / 120 3 Phase 4 Wires 60 HZ 100 AMP BUS																		
C.T.	CIRCUIT NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT NO.	C.T.				
						A	B	C							A	B	C	
1	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST	0.2			TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 2				
3	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST		0.2		TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 4				
5	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST			0.2	TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 6				
7	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST	0.2			TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 8				
9	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST		0.2		TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 10				
11	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST			0.2	TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 12				
13	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST	0.2			TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 14				
15	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST		0.2		TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 16				
17	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST			0.2	TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 18				
19	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST	0.2			TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 20				
21	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST		0.2		TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 22				
23	20 1	12	12	3/4	TELEDATA RECEPTACLE - WEST			0.2	TELEDATA RECEPTACLE - EAST	3/4	12	12	1	20 24				
25	20 1	12	12	3/4	T/D JUNCTION BOX - WEST	0.5			T/D JUNCTION BOX - EAST	3/4	12	12	1	20 26				
27	20 1	12	12	3/4	T/D JUNCTION BOX - WEST		0.5		T/D JUNCTION BOX - EAST	3/4	12	12	1	20 28				
29	20 1	12	12	3/4	T/D JUNCTION BOX - WEST			0.5	T/D JUNCTION BOX - EAST	3/4	12	12	1	20 30				
31	20 1	12	12	3/4	T/D JUNCTION BOX - WEST	0.4			T/D JUNCTION BOX - EAST	3/4	12	12	1	20 32				
33	20 1	12	12	3/4	T/D JUNCTION BOX - WEST		0.4		T/D JUNCTION BOX - EAST	3/4	12	12	1	20 34				
35	20 1	12	12	3/4	T/D JUNCTION BOX - WEST			0.4	T/D JUNCTION BOX - EAST	3/4	12	12	1	20 36				
37	20 1				SPACE				SPACE	3/4	12	12	1	20 38				
39	20 1				SPACE				SPACE	3/4	12	12	1	20 40				
41	20 1				SPACE				SPACE	3/4	12	12	1	20 42				
PHASE CONNECTED LOAD [KVA]						1.7	1.7	1.7	DIVERS. RECEPTACLE LOAD [KVA]						0.0			
TOTAL CONNECTED LOAD [KVA]						A	3.4	B	3.4	C	3.4	DIVERS. LTG AND GENERAL LOAD [KVA]						18.2
TOTAL CONNECTED LOAD [A]						16.2						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						28.3						TOTAL DIVERSIFIED LOAD [A]						28.3
125% OF DIVERSIFIED LOAD [A]						35.4												

PANELBOARD H1NEA											SURFACE MOUNTED							
400 AMP MAIN CIRCUIT BREAKER W/ 400 AMP TRIP																		
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wires 60 HZ 400 AMP BUS																		
C.T.	CIRCUIT NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT NO.	C.T.				
						A	B	C							A	B	C	
1	20 3	3	3	B	1 1/4				CRAC-1				1 1/4	8				
3	20 3	3	3	B	1 1/4				CRAC-2				3	3				
5														6				
7														8				
9	20 3	3	3	B	1 1/4				CRAC-3				1 1/2	8				
11														10				
13									PANEL H1NEA				3	100				
15														12				
17									P-3				1 1/4	10				
19									P-1				4	3				
21									P-2				4	3				
23	20 3	3	3	B	1 1/4				P-4				1 1/4	10				
25	20 3	3	3	B	1 1/4				P-4				1 1/4	10				
27	20 3	10	10	3/4	LIFT STATION PUMP	2.1			LIFT STATION PUMP				3	20				
29														28				
31														30				
33	20 1	10	10	3/4	RECEPTS - RM 3100, 3100	1.0			RECEPTS - RM 3100, 3100	3/4	10	10	1	20 32				
35	20 1				SPACE				SPACE	3/4	10	10	1	20 34				
37	20 1				SPACE				SPACE	3/4	10	10	1	20 36				
39	20 1				SPACE				SPACE	3/4	10	10	1	20 38				
41	20 1				SPACE				SPACE	3/4	10	10	1	20 40				
PHASE CONNECTED LOAD [KVA]						31.7	30.7	30.7	DIVERS. RECEPTACLE LOAD [KVA]						0.0			
TOTAL CONNECTED LOAD [KVA]						A	78.2	B	78.0	C	78.0	DIVERS. LTG AND GENERAL LOAD [KVA]						238.2
TOTAL CONNECTED LOAD [A]						276.9						DIVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						346.1						TOTAL DIVERSIFIED LOAD [A]						276.9

PANELBOARD H1NPA											SURFACE MOUNTED			
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP														
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wires 60 HZ 225 AMP BUS														
C.T.	CIRCUIT NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT NO.	C.T.
						A	B	C						
1	20 1	10	10	3/4	LIGHTING - MEETING RMS	3.2			LIGHTING - FIRST FLOOR ENTRY	3/4	12	12	1	20 2
3	20 1	10	10	3/4	LIGHTING - CORR & RESTRMS		2.0		LIGHTING - FIRST FLOOR ENTRY	3/4	12	12	1	20 4
5	20 1	10	10	3/4	LIGHTING - CONF. RM 300			2.0	LIGHTING - FIRST FLOOR ENTRY	3/4	12	12	1	20 6

PANELBOARD L1M1A SURFACE MOUNTED 300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 400 AMP BUS

CKT. NO.	CMT. INCL.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			CON.	GND	WIRE	CKT. INCL.	CKT. NO.		
						A	B	C	A	B	C							
1	20	1	12	12	3/4	RECEPTS - RM 116A, 119	0.0		0.0			3/4	12	12	1	20	2	
3	20	1	12	12	3/4	RECEPTS - RM 118	0.0	0.0	0.0	0.0		3/4	12	12	1	20	4	
5	20	1	12	12	3/4	RECEPTS - RM 117			0.0	0.0		3/4	12	12	1	20	6	
7	20	1	12	12	3/4	RECEPTS - RM 117	0.0		0.0	0.0		3/4	12	12	1	20	8	
9	20	1	12	12	3/4	RECEPTS - RM 117		0.0		0.0		3/4	12	12	1	20	10	
11	20	1	12	12	3/4	RECEPTS - RM 117			0.0	0.0		3/4	12	12	1	20	12	
13	20	1	12	12	3/4	RECEPTS - RM 119	1.0		0.0	0.0		3/4	12	12	1	20	14	
15	20	1	12	12	3/4	RECEPTS - RM 119		0.0		0.0		3/4	12	12	1	20	16	
17	20	1	12	12	3/4	RECEPTS - RM 119		0.0		0.0		3/4	12	12	1	20	18	
19	20	1	12	12	3/4	EMC - CORRIDOR 100C	0.5		1.0			3/4	12	12	1	20	20	
21	20	1	12	12	3/4	PROJECTOR - RM 110	0.5		0.5			3/4	12	12	1	20	22	
23	20	1	12	12	3/4	PROJECTOR SCREEN - RM 110		0.5		0.5		3/4	12	12	1	20	24	
25	20	1	12	12	3/4	PROJECTOR - RM 110	0.5		0.5			3/4	12	12	1	20	26	
27	20	1	12	12	3/4	FLOOR BOXES		1.0		1.0		3/4	12	12	1	20	28	
29	20	1	12	12	3/4	FLOOR BOXES			2.0		0.5	3/4	12	12	1	20	30	
31	20	1	12	12	3/4	AMA DOOR OPENER	0.5		0.5			3/4	12	12	1	20	32	
33	20	1	12	12	3/4	AMA DOOR OPENER		0.5		0.5		3/4	12	12	1	20	34	
35	20	1	12	12	3/4	AMA DOOR OPENER		0.5		0.5		3/4	12	12	1	20	36	
37	20	1				SPARE										38	38	
39	20	1				SPARE										40	40	
41	20	1				SPARE										42	42	
PHASE CONNECTED LOAD [kVA]						3.7	4.4	5.4	4.2	4.2	3.8	DIVERS. RECEPTACLE LOAD [kVA]						17.3
TOTAL CONNECTED LOAD [kVA]						A	7.9	B	8.6	C	9.2	DIVERS. LVS AND GENERAL LOAD [kVA]						1.7
TOTAL CONNECTED LOAD [A]						28.7						DIVERS. MOTOR LOAD [kVA]						0.0
120% OF DIVERSIFIED LOAD [A]						71.3						TOTAL DIVERSIFIED LOAD [A]						51.1
120% OF DIVERSIFIED LOAD [A]						82.3												

PANELBOARD W1M1B SURFACE MOUNTED 225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS

CKT. NO.	CMT. INCL.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			CON.	GND	WIRE	CKT. INCL.	CKT. NO.			
						A	B	C	A	B	C								
1	20	1	10	10	3/4	LIGHTING - LOADING DOCK	1.7									1	20	2	
3	20	1	10	10	3/4	LIGHTING - MEETING RM2		3.6									1	20	4
5	20	1				SPARE											1	20	6
7	20	1				SPARE											1	20	8
9	20	1				SPARE											1	20	10
11	20	1				SPARE											1	20	12
13	20	1				SPARE											1	20	14
15	20	1				SPARE											1	20	16
17	20	1				SPARE											1	20	18
19	20	1				SPARE											1	20	20
21	20	1				SPARE											1	20	22
23	20	1				SPARE											1	20	24
25	20	1				SPARE											1	20	26
27	20	1				SPARE											1	20	28
29	20	1				SPARE											1	20	30
31	20	1				SPARE											1	20	32
33	20	1				SPARE											1	20	34
35	20	1				SPARE											1	20	36
37	20	1				SPARE									17.7			40	38
39	20	1				SPARE									13.0			40	40
41	20	1				SPARE									16.0			40	42
PHASE CONNECTED LOAD [kVA]						1.7	3.6	0.0	17.7	13.0	16.0	DIVERS. RECEPTACLE LOAD [kVA]						0.0	
TOTAL CONNECTED LOAD [kVA]						A	19.4	B	17.4	C	16.0	DIVERS. LVS AND GENERAL LOAD [kVA]						0.0	
TOTAL CONNECTED LOAD [A]						62.8						DIVERS. MOTOR LOAD [kVA]						0.0	
120% OF DIVERSIFIED LOAD [A]						79.4						TOTAL DIVERSIFIED LOAD [A]						63.6	

PANELBOARD L1M1C SURFACE MOUNTED 300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 400 AMP BUS

CKT. NO.	CMT. INCL.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			CON.	GND	WIRE	CKT. INCL.	CKT. NO.				
						A	B	C	A	B	C									
1	20	1	12	12	3/4	RECEPTS - LOADING DOCK	0.8										1	20	2	
3	20	1	12	12	3/4	RECEPTS - LOADING DOCK		0.4		1.0								1	20	4
5	20	1	12	12	3/4	RECEPTS - LOADING DOCK			0.8		1.0							1	20	6
7	20	1	12	12	3/4	RECEPTS - LOADING DOCK	0.8		1.0									1	20	8
9	20	1	12	12	3/4	PROJECTOR - RM 112		0.5		0.5								1	20	10
11	20	1	12	12	3/4	RECEPTS - RM 112			0.8		1.0							1	20	12
13	20	1	12	12	3/4	RECEPTS - RM 114	0.8		1.0									1	20	14
15	20	1	12	12	3/4	RECEPTS - RM 113		0.8		1.0								1	20	16
17	20	1	12	12	3/4	RECEPTS - RM 114			1.0		0.6							1	20	18
19	20	1	12	12	3/4	RECEPTS - RM 115/118	1.0		1.0		0.6							1	20	20
21	20	1	12	12	3/4	RECEPTS - RM 105/110		1.0		0.8								1	20	22
23	20	1	12	12	3/4	EMC - CORRIDOR 100B			0.5		0.8							1	20	24
25	20	1	12	12	3/4	RECEPTS - RM 109	0.8		0.8		0.8							1	20	26
27	20	1	12	12	3/4	RECEPTS - RM 109B, 107, 110B		0.6		0.8								1	20	28
29	20	1	12	12	3/4	SRUCU-1			1.2		0.5							1	20	30
31	20	1	12	12	3/4	PROJECTOR - RM 114	0.2		0.5		0.5							1	20	32
33	20	1	12	12	3/4	PROJECTOR SCREEN - RM 114	0.5		0.5									1	20	34
35	20	1	12	12	3/4	FLOOR BOXES			0.5		1.0							1	20	36
37	20	1	12	12	3/4	FLOOR BOXES	1.5		7.2									1	20	38
39	20	1	12	12	3/4	PROJECTOR - RM 111		0.5		5.0								1	20	40
41	20	1	12	12	3/4	PROJECTOR - RM 111			0.5		5.0							1	20	42
PHASE CONNECTED LOAD [kVA]						5.0	4.3	5.3	11.0	9.6	10.7	DIVERS. RECEPTACLE LOAD [kVA]						27.0		
TOTAL CONNECTED LOAD [kVA]						A	17.7	B	13.0	C	16.0	DIVERS. LVS AND GENERAL LOAD [kVA]						1.0		
TOTAL CONNECTED LOAD [A]						47.8						DIVERS. MOTOR LOAD [kVA]						0.0		
120% OF DIVERSIFIED LOAD [A]						132.1						TOTAL DIVERSIFIED LOAD [A]						82.8		
120% OF DIVERSIFIED LOAD [A]						163.2														

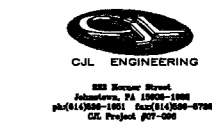
PANELBOARD L1M1D SURFACE MOUNTED 150 AMP MAIN CIRCUIT BREAKER W/ 150 AMP TRIP CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 225 AMP BUS

CKT. NO.	CMT. INCL.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			CON.	GND	WIRE	CKT. INCL.	CKT. NO.				
						A	B	C	A	B	C									
1	20	1	12	12	3/4	FLOOR BOXES	2.0		0.5		0.5							1	20	2
3	20	1	12	12	3/4	PROJECTOR SCREEN - RM 111				0.5								1	20	4
5	20	1	12	12	3/4	PROJECTOR SCREEN - RM 106				0.5								1	20	6
7	20	1	12	12	3/4	PROJECTOR SCREEN - RM 106	0.5		2.0									1	20	8
9	20	1	12	12	3/4	PROJECTOR - RM 106		0.5		0.5								1	20	10
11	20	1	12	12	3/4	FLOOR BOXES			1.0		2.0							1	20	12
13	20	1	12	12	3/4	PROJECTOR - RM 104	0.5		0.5		0.5							1	20	14
15	20	1	12	12	3/4	HUN-2 & HUN-2		1.0		0.8								1	20	16
17	20	1	12	12	3/4	HUN-2 & HUN-2			1.0		0.4							1	20	18
19	20	1	12	12	3/4	DOUBLE DUPLEX - RM 104	0.4		0.4		0.4							1	20	20
21	20	1	12	12	3/4	DOUBLE DUPLEX - RM 106		0.4		0.4								1	20	22
23	20	1	12	12	3/4	DOUBLE DUPLEX - RM 100			0.4									1	20	24
25	20	1	12	12	3/4	DOUBLE DUPLEX - RM 100	0.4											1	20	26
27	20	1	12	12	3/4	DOUBLE DUPLEX - RM 100		0.4										1	20	28
29	20	1	12	12	3/4	SPARE												1	20	30
31	20	1	12	12	3/4	SPARE												1	20	32
33	20	1	12	12	3/4	SPARE												1	20	34
35	20	1	12	12	3/4	SPARE												1	20	36
37	20	1	12	12	3/4	SPARE												1	20	38
39	20	1	12	12	3/4	SPARE												1	20	40
41	20	1	12	12	3/4	SPARE												1	20	42
PHASE CONNECTED LOAD [kVA]						3.8														





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PANELBOARD H2NPA  
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP  
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS SURFACE MOUNTED

CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	CMT.
					A	B	C	A	B	C						
1	12	12	3/4	LIGHTING - EAST OFFICE	2.3									1	20	2
3	12	12	3/4	LIGHTING - EAST OFFICE		3.1								1	20	4
5	12	12	3/4	SPARE										1	20	6
7	12	12	3/4	SPARE										1	20	8
9	12	12	3/4	SPARE										1	20	10
11	12	12	3/4	SPARE										1	20	12
13	12	12	3/4	SPARE										1	20	14
15	12	12	3/4	SPARE										1	20	16
17	12	12	3/4	SPARE										1	20	18
19	12	12	3/4	SPARE										1	20	20
21	12	12	3/4	SPARE										1	20	22
23	12	12	3/4	SPARE										1	20	24
25	12	12	3/4	SPARE										1	20	26
27	12	12	3/4	SPARE										1	20	28
29	12	12	3/4	SPARE										1	20	30
31	12	12	3/4	SPARE										1	20	32
33	12	12	3/4	SPARE				8.4		8.3				1	20	34
35	12	12	3/4	SPARE						7.7				1	20	36
37	12	12	3/4	SPARE				25.3						1	20	38
39	12	12	3/4	SPARE						25.9				1	20	40
41	12	12	3/4	SPARE						22.3				1	20	42
PHASE CONNECTED LOAD [kVA]					2.3	3.1	6.8	34.7	33.3	31.0	DIVERS. RECEPTACLE LOAD [kVA]					6.0
TOTAL CONNECTED LOAD [kVA]					104.6						DIVERS. LTG AND GENERAL LOAD [kVA]					104.6
TOTAL CONNECTED LOAD [A]					126.6						DIVERS. MOTOR LOAD [kVA]					6.0
125% OF DIVERSIFIED LOAD [A]					157.9						TOTAL DIVERSIFIED LOAD [A]					126.6

PANELBOARD H2NEA  
60 AMP MAIN CIRCUIT BREAKER W/ 60 AMP TRIP  
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 60 AMP BUS SURFACE MOUNTED

CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	CMT.	
					A	B	C	A	B	C							
1	12	12	3/4	FCU - 4TH FLOOR WEST	1.1			1.8			FCU - 4TH FLOOR EAST	3/4	12	12	1	20	2
3	12	12	3/4	FCU - 4TH FLOOR WEST		1.2			1.2		FCU - 4TH FLOOR EAST	3/4	12	12	1	20	4
5	12	12	3/4	FCU - 4TH FLOOR WEST			1.0			1.0	FCU - 4TH FLOOR EAST	3/4	12	12	1	20	6
7	12	12	3/4	FCU - 4TH FLOOR WEST	1.2			1.0			FCU - 4TH FLOOR EAST	3/4	12	12	1	20	8
9	12	12	3/4	FCU - 4TH FLOOR WEST		1.0			0.7		FCU - 4TH FLOOR EAST	3/4	12	12	1	20	10
11	12	12	3/4	FCU - 4TH FLOOR WEST			1.0		0.7		FCU - 4TH FLOOR EAST	3/4	12	12	1	20	12
13	12	12	3/4	FCU - 4TH FLOOR WEST	1.0			0.7			FCU - 4TH FLOOR EAST	3/4	12	12	1	20	14
15	12	12	3/4	FCU - 4TH FLOOR WEST		1.0			1.2		FCU - 4TH FLOOR EAST	3/4	12	12	1	20	16
17	12	12	3/4	FCU - 4TH FLOOR WEST			1.0			1.0	FCU - 4TH FLOOR EAST	3/4	12	12	1	20	18
19	12	12	3/4	FCU - 4TH FLOOR WEST	1.2			1.2			FCU - 4TH FLOOR EAST	3/4	12	12	1	20	20
21	12	12	3/4	FCU - 4TH FLOOR WEST		1.0		1.0			FCU - 4TH FLOOR EAST	3/4	12	12	1	20	22
23	12	12	3/4	FCU - 4TH FLOOR WEST			1.0		1.0		FCU - 4TH FLOOR EAST	3/4	12	12	1	20	24
25	12	12	3/4	SPARE				1.0			FCU - 4TH FLOOR EAST	3/4	12	12	1	20	26
27	12	12	3/4	SPARE					1.0		FCU - 4TH FLOOR EAST	3/4	12	12	1	20	28
29	12	12	3/4	SPARE							FCU - 4TH FLOOR EAST	3/4	12	12	1	20	30
31	12	12	3/4	SPARE							FCU - 4TH FLOOR EAST	3/4	12	12	1	20	32
33	12	12	3/4	SPARE							FCU - 4TH FLOOR EAST	3/4	12	12	1	20	34
35	12	12	3/4	SPARE							FCU - 4TH FLOOR EAST	3/4	12	12	1	20	36
37	12	12	3/4	SPARE							FCU - 4TH FLOOR EAST	3/4	12	12	1	20	38
39	12	12	3/4	SPARE							FCU - 4TH FLOOR EAST	3/4	12	12	1	20	40
41	12	12	3/4	SPARE							FCU - 4TH FLOOR EAST	3/4	12	12	1	20	42
PHASE CONNECTED LOAD [kVA]					4.5	4.2	4.0	4.0	4.1	3.7	DIVERS. RECEPTACLE LOAD [kVA]					6.0	
TOTAL CONNECTED LOAD [kVA]					25.4						DIVERS. LTG AND GENERAL LOAD [kVA]					6.0	
TOTAL CONNECTED LOAD [A]					36.5						DIVERS. MOTOR LOAD [kVA]					6.0	
125% OF DIVERSIFIED LOAD [A]					36.5						TOTAL DIVERSIFIED LOAD [A]					36.5	

PANELBOARD L2NPA  
300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP  
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 400 AMP BUS SURFACE MOUNTED

CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	CMT.	
					A	B	C	A	B	C							
1	12	12	3/4	POWER COLUMN E11 NORTH	1.0			12.3			PANEL L2NPA	1 1/4	6	2	3	100	2
3	12	12	3/4	POWER COLUMN E11 EAST		1.0			12.5								4
5	12	12	3/4	POWER COLUMN E11 SOUTH			1.0			11.9							6
7	12	12	3/4	POWER COLUMN E11 WEST	1.0			1.0			POWER COLUMN D10 NORTH	3/4	12	12	1	20	8
9	12	12	3/4	POWER COLUMN D10 NORTH		1.0			1.0		POWER COLUMN D10 EAST	3/4	12	12	1	20	10
11	12	12	3/4	POWER COLUMN D10 EAST			1.0		1.0		POWER COLUMN D10 SOUTH	3/4	12	12	1	20	12
13	12	12	3/4	POWER COLUMN D10 SOUTH	1.0			1.0			POWER COLUMN D10 WEST	3/4	12	12	1	20	14
15	12	12	3/4	POWER COLUMN D10 WEST		1.0			1.0		POWER COLUMN C10 NORTH	3/4	12	12	1	20	16
17	12	12	3/4	POWER COLUMN C10 NORTH			1.0		1.0		POWER COLUMN C10 EAST	3/4	12	12	1	20	18
19	12	12	3/4	POWER COLUMN C10 EAST	1.0			1.0			POWER COLUMN C10 SOUTH	3/4	12	12	1	20	20
21	12	12	3/4	POWER COLUMN C10 SOUTH		1.0			1.0		POWER COLUMN C10 WEST	3/4	12	12	1	20	22
23	12	12	3/4	POWER COLUMN C10 WEST			1.0		1.0		POWER COLUMN B10 NORTH	3/4	12	12	1	20	24
25	12	12	3/4	POWER COLUMN B10 NORTH	1.0			1.0			POWER COLUMN B10 EAST	3/4	12	12	1	20	26
27	12	12	3/4	POWER COLUMN B10 EAST		1.0			1.0		POWER COLUMN B10 SOUTH	3/4	12	12	1	20	28
29	12	12	3/4	POWER COLUMN B10 SOUTH			1.0		1.0		POWER COLUMN B10 WEST	3/4	12	12	1	20	30
31	12	12	3/4	POWER COLUMN B10 WEST	1.0			1.0			POWER COLUMN E9 NORTH	3/4	12	12	1	20	32
33	12	12	3/4	POWER COLUMN E9 NORTH		1.0			1.0		POWER COLUMN E9 EAST	3/4	12	12	1	20	34
35	12	12	3/4	POWER COLUMN E9 EAST			1.0		1.0		POWER COLUMN E9 SOUTH	3/4	12	12	1	20	36
37	12	12	3/4	POWER COLUMN E9 SOUTH	1.0			1.0			POWER COLUMN E9 WEST	3/4	12	12	1	20	38
39	12	12	3/4	POWER COLUMN E9 WEST		1.0			0.5		SPALDOR OFFICE	3/4	12	12	1	20	40
41	12	12	3/4	SPARE					0.4		DOUBLE DUPLEX - RM 200L	3/4	12	12	1	20	42
PHASE CONNECTED LOAD [kVA]					7.0	7.0	6.0	18.3	18.0	17.2	DIVERS. RECEPTACLE LOAD [kVA]					1.4	
TOTAL CONNECTED LOAD [kVA]					73.5						DIVERS. LTG AND GENERAL LOAD [kVA]					1.4	
TOTAL CONNECTED LOAD [A]					284.3						DIVERS. MOTOR LOAD [kVA]					0.0	
125% OF DIVERSIFIED LOAD [A]					147.5						TOTAL DIVERSIFIED LOAD [A]					116.8	

PANELBOARD L2NPA  
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP  
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 100 AMP BUS SURFACE MOUNTED

CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD [kVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	CMT.	
					A	B	C	A	B	C							
1	12	12	3/4	POWER COLUMN E7 NORTH	1.0			1.0			POWER COLUMN B7 NORTH	3/4	12	12	1	20	2
3	12	12	3/4	POWER COLUMN E7 EAST		1.0			1.0		POWER COLUMN B7 EAST	3/4	12	12	1	20	4
5	12	12	3/4	POWER COLUMN E7 SOUTH			1.0			1.0	POWER COLUMN B7 SOUTH	3/4	12	12	1	20	6
7	12	12	3/4	POWER COLUMN E7 WEST	1.0			1.0			POWER COLUMN B7 WEST	3/4	12	12	1	20	8
9	12	12	3/4	POWER COLUMN E8 NORTH		1.0			1.0		POWER COLUMN B8 NORTH	3/4	12	12	1	20	10
11	12	12	3/4	POWER COLUMN E8 EAST			1.0		1.0		POWER COLUMN B8 EAST	3/4	12	12	1	20	12
13	12	12	3/4	POWER COLUMN E8 SOUTH	1.0			1.0			POWER COLUMN B8 SOUTH	3/4	12	12	1	20	14
15	12	12	3/4	POWER COLUMN E8 WEST		1.0			1.0		POWER COLUMN B8 WEST	3/4	12	12	1	20	16
17	12	12	3/4	FLOOR BOXES			1.0		1.0		POWER COLUMN B9 NORTH	3/4	12	12	1	20	18
19	12	12	3/4	FLOOR BOXES	1.0			1.0			POWER COLUMN B9 EAST	3/4	12	12	1	20	20
21	12	12	3/4	FLOOR BOXES		1.0			1.0		POWER COLUMN B9 SOUTH	3/4	12	12	1	20	22
23	12	12	3/4	FLOOR BOXES			1.0		1.0		POWER COLUMN B9 WEST	3/4	12	12	1	20	24
25	12	12	3/4	FLOOR BOXES	0.5			1.0			FLOOR BOX	3/4	12	12	1	20	26
27	12	12	3/4	RECEPTS - OPEN OFFICE EAST		0.0			0.0		RECEPTS - CONF. ROOM	3/4	12	12	1	20	28
29	12	12	3/4	RECEPTS - OPEN OFFICE EAST		0.0			0.0		ERIC - EAST CORRIDOR	3/4	12	12	1	20	30
31	12	12	3/4	RECEPTS - OPEN OFFICE EAST	0.5			1.2		0.5	RECEPTS - WOMEN'S ROOM	3/4	12	12	1	20	32
33	12	12	3/4	RECEPTS - OPEN OFFICE EAST		0.0			1.0		REFRIG. - BREAK AREA EAST	3/4	12	12	1	20	34
35	12	12	3/4	PROJECTOR SCREEN - RM 200L		0.0			0.0		RECEPTS - BREAK AREA EAST	3/4	12	12	1	20	36
37	12	12	3/4	PROJECTOR - RM 200L	0.5			0.5		0.0	PROJECTOR - RM 200	3/4	12	12	1	20	38
39	12	12	3/4	STONE TOP - BREAK AREA EAST													

PANELBOARD L2WFD																
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 225 AMP BUS SURFACE MOUNTED																
CKT. NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. INCL.	C.T.	
					A	B	C	A	B	C						
1	12	12	3/4	POWER COLUMN E5 NORTH	1.0									2		
3	12	12	3/4	POWER COLUMN E5 EAST	1.0			1.0						4		
5	12	12	3/4	POWER COLUMN E5 SOUTH			1.0							6		
7	12	12	3/4	POWER COLUMN E5 WEST	1.0			1.0						8		
9	12	12	3/4	POWER COLUMN E5 NORTH		1.0			1.0					10		
11	12	12	3/4	POWER COLUMN E5 EAST			1.0		1.0					12		
13	12	12	3/4	POWER COLUMN E5 SOUTH	1.0			1.0						14		
15	12	12	3/4	POWER COLUMN E5 WEST		1.0			1.0					16		
17	12	12	3/4	FLOOR BOXES			1.0		1.0					18		
19	12	12	3/4	FLOOR BOXES	1.0			1.0						20		
21	12	12	3/4	RECEPTS - OPEN OFFICE WEST		0.8			1.0					22		
23	12	12	3/4	RECEPTS - BREAK AREA WEST			0.8		0.8					24		
25	12	12	3/4	RECEPTS - OPEN OFFICE WEST		0.8		1.0						26		
27	12	12	3/4	RECEPTS - OPEN OFFICE WEST		0.8		0.5						28		
29	12	12	3/4	RECEPTS - MEN'S ROOM			1.0		0.6					30		
31	12	12	3/4	POWER COLUMN B6 NORTH	1.0									32		
33	12	12	3/4	POWER COLUMN B6 EAST		1.0								34		
35	12	12	3/4	POWER COLUMN B6 SOUTH			1.0							36		
37	12	12	3/4	POWER COLUMN B6 WEST	1.0									38		
39	12	12	3/4	EMC-WEST CORRIDOR		0.5								40		
41	12	12	3/4	SPARE										42		
PHASE CONNECTED LOAD [KVA]					6.8	5.7	6.6	6.0	4.5	4.2	INVERS. RECEPTACLE LOAD [KVA]					19.7
TOTAL CONNECTED LOAD [KVA]					A 11.8 B 12.2 C 12.4			INVERS. LTG AND GENERAL LOAD [KVA]			2.5					
TOTAL CONNECTED LOAD [A]					31.8			INVERS. MOTOR LOAD [KVA]			0.0					
125% OF DIVERSIFIED LOAD [A]					78.0			TOTAL DIVERSIFIED LOAD [A]			81.5					

PANELBOARD WFD2																
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 100 AMP BUS SURFACE MOUNTED																
CKT. NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. INCL.	C.T.	
					A	B	C	A	B	C						
1	12	12	3/4	TELEBATA RECEPTACLE - WEST	0.2				0.2					2		
3	12	12	3/4	TELEBATA RECEPTACLE - WEST		0.2			0.2					4		
5	12	12	3/4	TELEBATA RECEPTACLE - WEST			0.2			0.2				6		
7	12	12	3/4	TELEBATA RECEPTACLE - WEST	0.2				0.2					8		
9	12	12	3/4	TELEBATA RECEPTACLE - WEST		0.2				0.2				10		
11	12	12	3/4	TELEBATA RECEPTACLE - WEST			0.2			0.2				12		
13	12	12	3/4	TELEBATA RECEPTACLE - WEST	0.2				0.2					14		
15	12	12	3/4	TELEBATA RECEPTACLE - WEST		0.2				0.2				16		
17	12	12	3/4	TELEBATA RECEPTACLE - WEST			0.2				0.2			18		
19	12	12	3/4	TELEBATA RECEPTACLE - WEST	0.2				0.2					20		
21	12	12	3/4	TELEBATA RECEPTACLE - WEST		0.2				0.2				22		
23	12	12	3/4	TELEBATA RECEPTACLE - WEST			0.2				0.2			24		
25	12	12	3/4	TJB JUNCTION BOX - WEST	0.5				0.5					26		
27	12	12	3/4	TJB JUNCTION BOX - WEST		0.5				0.5				28		
29	12	12	3/4	TJB JUNCTION BOX - WEST			0.5				0.5			30		
31	12	12	3/4	TJB JUNCTION BOX - WEST	0.4				0.4					32		
33	12	12	3/4	TJB JUNCTION BOX - WEST		0.4				0.4				34		
35	12	12	3/4	TJB JUNCTION BOX - WEST			0.4				0.4			36		
37	12	12	3/4	TJB JUNCTION BOX - WEST	0.4				0.4					38		
39	12	12	3/4	SPARE										40		
41	12	12	3/4	SPARE										42		
PHASE CONNECTED LOAD [KVA]					1.7	1.7	1.7	1.7	1.7	1.7	INVERS. RECEPTACLE LOAD [KVA]					0.0
TOTAL CONNECTED LOAD [KVA]					A 3.4 B 3.4 C 3.4			INVERS. LTG AND GENERAL LOAD [KVA]			10.2					
TOTAL CONNECTED LOAD [A]					10.2			INVERS. MOTOR LOAD [KVA]			0.0					
125% OF DIVERSIFIED LOAD [A]					26.4			TOTAL DIVERSIFIED LOAD [A]			28.3					

PANELBOARD H3WPA																
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP																
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS SURFACE MOUNTED																
CKT. NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. INCL.	C.T.	
					A	B	C	A	B	C						
1	12	12	3/4	LIGHTING - EAST OFFICE	2.2									2		
3	12	12	3/4	LIGHTING - EAST OFFICE		2.1								4		
5	12	12	3/4	SPARE										6		
7	12	12	3/4	SPARE										8		
9	12	12	3/4	SPARE										10		
11	12	12	3/4	SPARE										12		
13	12	12	3/4	SPARE										14		
15	12	12	3/4	SPARE										16		
17	12	12	3/4	SPARE										18		
19	12	12	3/4	SPARE										20		
21	12	12	3/4	SPARE										22		
23	12	12	3/4	SPARE										24		
25	12	12	3/4	SPARE										26		
27	12	12	3/4	SPARE										28		
29	12	12	3/4	SPARE										30		
31	12	12	3/4	SPARE				0.2						32		
33	12	12	3/4	SPARE						0.3				34		
35	12	12	3/4	SPARE							0.5			36		
37	12	12	3/4	SPARE								25.2		38		
39	12	12	3/4	SPARE									24.9	40		
41	12	12	3/4	SPARE										42		
PHASE CONNECTED LOAD [KVA]					2.2	2.1	0.0	33.4	34.2	26.9	INVERS. RECEPTACLE LOAD [KVA]					0.0
TOTAL CONNECTED LOAD [KVA]					A 36.6 B 37.3 C 29.9			INVERS. LTG AND GENERAL LOAD [KVA]			163.8					
TOTAL CONNECTED LOAD [A]					124.9			INVERS. MOTOR LOAD [KVA]			0.0					
125% OF DIVERSIFIED LOAD [A]					156.1			TOTAL DIVERSIFIED LOAD [A]			124.9					

PANELBOARD H3WEA																
60 AMP MAIN CIRCUIT BREAKER W/ 60 AMP TRIP																
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 60 AMP BUS SURFACE MOUNTED																
CKT. NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. INCL.	C.T.	
					A	B	C	A	B	C						
1	12	12	3/4	FCU - 4TH FLOOR WEST	1.1				1.0					2		
3	12	12	3/4	FCU - 4TH FLOOR WEST		1.2				1.2				4		
5	12	12	3/4	FCU - 4TH FLOOR WEST			1.0				1.2			6		
7	12	12	3/4	FCU - 4TH FLOOR WEST	0.7				1.0					8		
9	12	12	3/4	FCU - 4TH FLOOR WEST		1.0				1.0				10		
11	12	12	3/4	FCU - 4TH FLOOR WEST			1.2				1.0			12		
13	12	12	3/4	FCU - 4TH FLOOR WEST	1.0				1.0					14		
15	12	12	3/4	FCU - 4TH FLOOR WEST		1.0				1.0				16		
17	12	12	3/4	FCU - 4TH FLOOR WEST			1.0				1.2			18		
19	12	12	3/4	FCU - 4TH FLOOR WEST	1.0				0.7					20		
21	12	12	3/4	FCU - 4TH FLOOR WEST		1.0				1.2				22		
23	12	12	3/4	FCU - 4TH FLOOR WEST			1.0				0.7			24		
25	12	12	3/4	FCU - 4TH FLOOR WEST	0.7									26		
27	12	12	3/4	FCU - 4TH FLOOR WEST		0.7								28		
29	12	12	3/4	FCU - 4TH FLOOR WEST			1.2							30		
31	12	12	3/4	SPARE										32		
33	12	12	3/4	SPARE										34		
35	12	12	3/4	SPARE										36		
37	12	12	3/4	SPARE										38		
39	12	12	3/4	SPARE										40		
41	12	12	3/4	SPARE										42		
PHASE CONNECTED LOAD [KVA]					4.5	4.9	5.4	3.7	4.4	4.1	INVERS. RECEPTACLE LOAD [KVA]					0.0
TOTAL CONNECTED LOAD [KVA]					A 8.2 B 9.3 C 9.5			INVERS. LTG AND GENERAL LOAD [KVA]			0.0					
TOTAL CONNECTED LOAD [A]					27.6			INVERS. MOTOR LOAD [KVA]			27.0					
125% OF DIVERSIFIED LOAD [A]					40.6			TOTAL DIVERSIFIED LOAD [A]			32.6					

PANELBOARD L3WPA															
300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP															
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 400 AMP BUS SURFACE MOUNTED															
CKT. NO.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. INCL.	C.T.
					A	B	C	A	B	C					
1	12	12	3/4	POWER COLUMN E11 NORTH	1.0									2	
3	12	12	3/4	POWER COLUMN E11 EAST		1.0			12.4					4	
5	12	12	3/4	POWER COLUMN E11 SOUTH			1.0			10.4				6	
7	12	12	3/4	POWER COLUMN E11 WEST	1.0				1.0					8	
9	12	12	3/4	POWER COLUMN B11 NORTH		1.0				1.0				10	
11	12	12	3/4	POWER COLUMN B11 EAST			1.0			1.0				12	
13	12	12	3/4	POWER COLUMN B11 SOUTH	1.0				1.0					14	
15	12	12	3/4	POWER COLUMN B11 WEST		1.0				1.0				16	
17	12	12	3/4	POWER COLUMN C11 NORTH			1.0			1.0				18	
19	12	12	3/4	POWER COLUMN C11 EAST	1.0				1.0					20	
21	12	12	3/4	POWER COLUMN C11 SOUTH		1.0				1.0				22	
23	12	12	3/4	POWER COLUMN C11 WEST			1.0			1.0				24	
25	12	12	3/4	POWER COLUMN B11 NORTH	1.0				1.0					26	
27	12	12	3/4	POWER COLUMN B11 EAST		1.0				1.0				28	
29	12	12	3/4	POWER COLUMN B11 SOUTH			1.0			1.0				30	
31	12	12	3/4	POWER COLUMN B11 WEST	1.0				1.0					32	
33	12	12	3/4	POWER COLUMN E10 NORTH		1.0				1.0				34	
35	12	12	3/4	POWER COLUMN E10 EAST			1.0			1					



4 BOULEVARD OF THE ALLIES  
 PITTSBURGH, PA 15219-13 1  
 412.391.2 4PH  
 412.391.1 57 FX  
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 C.J. Project #07-006

PANELBOARD LAMP'S  
 300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP  
 CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 400 AMP BUS SURFACE MOUNTED

CCT. NO.	CCT. BNDL.	WIRE	GND	CON.	LOAD SERVED	LOAD [kVA]			LOAD SERVED	CON.	GND	WIRE	CCT. BNDL.	CCT.
						A	B	C						
1	20	1	12	12	3/4	POWER COLUMN E11 NORTH	1.0							2
2	20	1	12	12	3/4	POWER COLUMN E11 EAST		1.0						4
3	20	1	12	12	3/4	POWER COLUMN E11 SOUTH			1.0					6
4	20	1	12	12	3/4	POWER COLUMN E11 WEST	1.0							8
5	20	1	12	12	3/4	POWER COLUMN D10 NORTH		1.0						10
6	20	1	12	12	3/4	POWER COLUMN D10 EAST			1.0					12
7	20	1	12	12	3/4	POWER COLUMN D10 SOUTH	1.0							14
8	20	1	12	12	3/4	POWER COLUMN D10 WEST		1.0						16
9	20	1	12	12	3/4	POWER COLUMN C10 NORTH			1.0					18
10	20	1	12	12	3/4	POWER COLUMN C10 EAST	1.0							20
11	20	1	12	12	3/4	POWER COLUMN C10 SOUTH		1.0						22
12	20	1	12	12	3/4	POWER COLUMN C10 WEST			1.0					24
13	20	1	12	12	3/4	POWER COLUMN B10 NORTH	1.0							26
14	20	1	12	12	3/4	POWER COLUMN B10 EAST		1.0						28
15	20	1	12	12	3/4	POWER COLUMN B10 SOUTH			1.0					30
16	20	1	12	12	3/4	POWER COLUMN B10 WEST	1.0							32
17	20	1	12	12	3/4	POWER COLUMN A10 NORTH		1.0						34
18	20	1	12	12	3/4	POWER COLUMN A10 EAST			1.0					36
19	20	1	12	12	3/4	POWER COLUMN A10 SOUTH	1.0							38
20	20	1	12	12	3/4	POWER COLUMN A10 WEST		1.0						40
21	20	1	12	12	3/4	POWER COLUMN E10 NORTH								42
22	20	1	12	12	3/4	POWER COLUMN E10 EAST								44
23	20	1	12	12	3/4	POWER COLUMN E10 SOUTH								46
24	20	1	12	12	3/4	POWER COLUMN E10 WEST								48
25	20	1	12	12	3/4	POWER COLUMN D10 NORTH								50
26	20	1	12	12	3/4	POWER COLUMN D10 EAST								52
27	20	1	12	12	3/4	POWER COLUMN D10 SOUTH								54
28	20	1	12	12	3/4	POWER COLUMN D10 WEST								56
29	20	1	12	12	3/4	POWER COLUMN C10 NORTH								58
30	20	1	12	12	3/4	POWER COLUMN C10 EAST								60
31	20	1	12	12	3/4	POWER COLUMN C10 SOUTH								62
32	20	1	12	12	3/4	POWER COLUMN C10 WEST								64
33	20	1	12	12	3/4	POWER COLUMN B10 NORTH								66
34	20	1	12	12	3/4	POWER COLUMN B10 EAST								68
35	20	1	12	12	3/4	POWER COLUMN B10 SOUTH								70
36	20	1	12	12	3/4	POWER COLUMN B10 WEST								72
37	20	1	12	12	3/4	POWER COLUMN A10 NORTH								74
38	20	1	12	12	3/4	POWER COLUMN A10 EAST								76
39	20	1	12	12	3/4	POWER COLUMN A10 SOUTH								78
40	20	1	12	12	3/4	POWER COLUMN A10 WEST								80
41	20	1				SPARE								82
42	20	1				SPARE								84
43	20	1				SPARE								86
44	20	1				SPARE								88
45	20	1				SPARE								90
46	20	1				SPARE								92
47	20	1				SPARE								94
48	20	1				SPARE								96
49	20	1				SPARE								98
50	20	1				SPARE								100
51	20	1				SPARE								102
52	20	1				SPARE								104
53	20	1				SPARE								106
54	20	1				SPARE								108
55	20	1				SPARE								110
56	20	1				SPARE								112
57	20	1				SPARE								114
58	20	1				SPARE								116
59	20	1				SPARE								118
60	20	1				SPARE								120
61	20	1				SPARE								122
62	20	1				SPARE								124
63	20	1				SPARE								126
64	20	1				SPARE								128
65	20	1				SPARE								130
66	20	1				SPARE								132
67	20	1				SPARE								134
68	20	1				SPARE								136
69	20	1				SPARE								138
70	20	1				SPARE								140
71	20	1				SPARE								142
72	20	1				SPARE								144
73	20	1				SPARE								146
74	20	1				SPARE								148
75	20	1				SPARE								150
76	20	1				SPARE								152
77	20	1				SPARE								154
78	20	1				SPARE								156
79	20	1				SPARE								158
80	20	1				SPARE								160
81	20	1				SPARE								162
82	20	1				SPARE								164
83	20	1				SPARE								166
84	20	1				SPARE								168
85	20	1				SPARE								170
86	20	1				SPARE								172
87	20	1				SPARE								174
88	20	1				SPARE								176
89	20	1				SPARE								178
90	20	1				SPARE								180
91	20	1				SPARE								182
92	20	1				SPARE								184
93	20	1				SPARE								186
94	20	1				SPARE								188
95	20	1				SPARE								190
96	20	1				SPARE								192
97	20	1				SPARE								194
98	20	1				SPARE								196
99	20	1				SPARE								198
100	20	1				SPARE								200
101	20	1				SPARE								202
102	20	1				SPARE								204
103	20	1				SPARE								206
104	20	1				SPARE								208
105	20	1				SPARE								210
106	20	1				SPARE								212
107	20	1				SPARE								214
108	20	1				SPARE								216
109	20	1				SPARE								218
110	20	1				SPARE								220
111	20	1				SPARE								222
112	20	1				SPARE								224
113	20	1				SPARE								226
114	20	1				SPARE								228
115	20	1				SPARE								230
116	20	1				SPARE								232
117	20	1				SPARE								234
118	20	1				SPARE								236
119	20	1				SPARE								238
120	20	1				SPARE								240
121	20	1				SPARE								242
122	20	1				SPARE								244
123	20	1				SPARE								246
124	20	1				SPARE								248
125	20	1				SPARE								250
126	20	1				SPARE								252
127	20	1				SPARE								254
128	20	1				SPARE								256
129	20	1				SPARE								258
130	20	1				SPARE								260
131	20	1				SPARE								262
132	20	1				SPARE								264
133	20	1				SPARE								266
134	20	1				SPARE								268
135	20	1				SPARE								270
136	20	1				SPARE								272
137	20	1				SPARE								274
138	20	1				SPARE								276
139	20	1				SPARE								278
140	20	1												

PANELBOARD LS4												SURFACE MOUNTED					
60 AMP MAIN CIRCUIT BREAKER W/ 60 AMP TRIP																	
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 60 AMP BUS																	
CKT. NO.	CKT. BKR.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. BKR.	CKT. NO.	
						A	B	C	A	B	C						
1	20	1	12	12	3/4	THIRD FLOOR LIGHTING	3.0								1	20	2
3	20	1	12	12	3/4	FIFTH FLOOR LIGHTING	3.1								1	20	4
5	20	1				SPARE									1	20	6
7	20	1				SPARE									1	20	8
9	20	1				SPARE									1	20	10
11	20	1				SPARE									1	20	12
13	20	1				SPARE									1	20	14
15	20	1				SPARE									1	20	16
17	20	1				SPARE									1	20	18
19	20	1				SPARE									1	20	20
21	20	1				SPARE									1	20	22
23	20	1				SPARE									1	20	24
25	20	1				SPARE									1	20	26
27	20	1				SPARE									1	20	28
29	20	1				SPARE									1	20	30
31	20	1				SPARE									1	20	32
33	20	1				SPARE									1	20	34
35	20	1				SPARE									1	20	36
37	20	1				SPARE									1	20	38
39	20	1				SPARE									1	20	40
41	20	1				SPARE									1	20	42
PHASE CONNECTED LOAD [KVA]						3.0	3.1	6.0	3.1	6.5	6.0	DIVERS. RECEPTACLE LOAD [KVA]			6.0		
TOTAL CONNECTED LOAD [KVA]						A	6.2	B	3.6	C	6.0	DIVERS. LTR AND GENERAL LOAD [KVA]			6.0		
TOTAL CONNECTED LOAD [A]						6.5			DIVERS. MOTOR LOAD [KVA]			6.0					
TOTAL CONNECTED LOAD [A]						17.8			TOTAL DIVERSIFIED LOAD [A]			11.8					
125% OF DIVERSIFIED LOAD [A]						14.8											

PANELBOARD HEMPA												SURFACE MOUNTED					
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP																	
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS																	
CKT. NO.	CKT. BKR.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. BKR.	CKT. NO.	
						A	B	C	A	B	C						
1	20	1	12	12	3/4	LIGHTING - EAST OFFICE	2.0								1	20	2
3	20	1	12	12	3/4	LIGHTING - EAST OFFICE	2.7								1	20	4
5	20	1	12	12	3/4	LIGHTING - LOBBY			6.8						1	20	6
7	20	1				SPARE									1	20	8
9	20	1				SPARE									1	20	10
11	20	1				SPARE									1	20	12
13	20	1				SPARE									1	20	14
15	20	1				SPARE									1	20	16
17	20	1				SPARE									1	20	18
19	20	1				SPARE									1	20	20
21	20	1				SPARE									1	20	22
23	20	1				SPARE									1	20	24
25	20	1				SPARE									1	20	26
27	20	1				SPARE									1	20	28
29	20	1				SPARE									1	20	30
31	20	1				SPARE									1	20	32
33	20	1				SPARE			11.0		9.0				1	144	34
35	20	1				SPARE					9.4				1	144	36
37	20	1				SPARE				24.3					1	144	38
39	20	1				SPARE									1	144	40
41	20	1				SPARE									1	144	42
PHASE CONNECTED LOAD [KVA]						2.0	2.7	6.8	36.2	34.2	31.7	DIVERS. RECEPTACLE LOAD [KVA]			6.0		
TOTAL CONNECTED LOAD [KVA]						A	36.2	B	36.9	C	31.5	DIVERS. LTR AND GENERAL LOAD [KVA]			106.6		
TOTAL CONNECTED LOAD [A]						106.6			DIVERS. MOTOR LOAD [KVA]			6.0					
125% OF DIVERSIFIED LOAD [A]						168.3			TOTAL DIVERSIFIED LOAD [A]			126.2					

PANELBOARD HEMEA												SURFACE MOUNTED					
60 AMP MAIN CIRCUIT BREAKER W/ 60 AMP TRIP																	
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 60 AMP BUS																	
CKT. NO.	CKT. BKR.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. BKR.	CKT. NO.	
						A	B	C	A	B	C						
1	20	1	12	12	3/4	FCU - 6TH FLOOR WEST	1.2			1.2					1	20	2
3	20	1	12	12	3/4	FCU - 6TH FLOOR WEST		1.2			1.2				1	20	4
5	20	1	12	12	3/4	FCU - 6TH FLOOR WEST			6.7			1.2			1	20	6
7	20	1	12	12	3/4	FCU - 6TH FLOOR WEST	1.1			0.7					1	20	8
9	20	1	12	12	3/4	FCU - 6TH FLOOR WEST		0.7		0.7					1	20	10
11	20	1	12	12	3/4	FCU - 6TH FLOOR WEST			6.7						1	20	12
13	20	1	12	12	3/4	FCU - 6TH FLOOR WEST	1.1			0.7					1	20	14
15	20	1	12	12	3/4	FCU - 6TH FLOOR WEST		6.7		0.7					1	20	16
17	20	1	12	12	3/4	FCU - 6TH FLOOR WEST			6.7						1	20	18
19	20	1	12	12	3/4	FCU - 6TH FLOOR WEST	0.7			0.7					1	20	20
21	20	1	12	12	3/4	FCU - 6TH FLOOR WEST		6.7		0.7					1	20	22
23	20	1	12	12	3/4	FCU - 6TH FLOOR WEST			6.7						1	20	24
25	20	1	12	12	3/4	FCU - 6TH FLOOR WEST	0.7			0.7					1	20	26
27	20	1	12	12	3/4	FCU - 6TH FLOOR WEST		6.7		1.2					1	20	28
29	20	1	12	12	3/4	FCU - 6TH FLOOR WEST			1.2						1	20	30
31	20	1	12	12	3/4	FCU - 6TH FLOOR WEST	0.7			1.2					1	20	32
33	20	1	12	12	3/4	FCU - 6TH FLOOR WEST		6.7		0.7					1	20	34
35	20	1	12	12	3/4	FCU - 6TH FLOOR WEST			6.7						1	20	36
37	20	1	12	12	3/4	FCU - 6TH FLOOR WEST	1.2								1	20	38
39	20	1				SPARE									1	20	40
41	20	1				SPARE									1	20	42
PHASE CONNECTED LOAD [KVA]						6.7	4.7	4.7	5.2	6.2	4.7	DIVERS. RECEPTACLE LOAD [KVA]			6.0		
TOTAL CONNECTED LOAD [KVA]						A	11.9	B	9.6	C	9.4	DIVERS. LTR AND GENERAL LOAD [KVA]			6.0		
TOTAL CONNECTED LOAD [A]						34.2			DIVERS. MOTOR LOAD [KVA]			6.0					
TOTAL CONNECTED LOAD [A]						37.5			TOTAL DIVERSIFIED LOAD [A]			37.5					
125% OF DIVERSIFIED LOAD [A]						46.9											

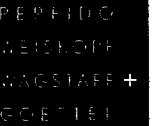
PANELBOARD LEMPA												SURFACE MOUNTED					
300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP																	
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 400 AMP BUS																	
CKT. NO.	CKT. BKR.	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			CON	GND	WIRE	CKT. BKR.	CKT. NO.	
						A	B	C	A	B	C						
1	20	1	12	12	3/4	POWER COLUMN E11 NORTH	1.0			11.3					1	144	2
3	20	1	12	12	3/4	POWER COLUMN E11 EAST		1.0			11.8				1	144	4
5	20	1	12	12	3/4	POWER COLUMN E11 SOUTH			1.0			18.3			1	144	6
7	20	1	12	12	3/4	POWER COLUMN E11 WEST	1.0			1.0					1	144	8
9	20	1	12	12	3/4	POWER COLUMN B11 NORTH		1.0		1.0					1	144	10
11	20	1	12	12	3/4	POWER COLUMN B11 EAST			1.0		1.0				1	144	12
13	20	1	12	12	3/4	POWER COLUMN B11 SOUTH	1.0			1.0					1	144	14
15	20	1	12	12	3/4	POWER COLUMN B11 WEST		1.0		1.0					1	144	16
17	20	1	12	12	3/4	POWER COLUMN C11 NORTH			1.0		1.0				1	144	18
19	20	1	12	12	3/4	POWER COLUMN C11 EAST	1.0			1.0					1	144	20
21	20	1	12	12	3/4	POWER COLUMN C11 SOUTH		1.0		1.0					1	144	22
23	20	1	12	12	3/4	POWER COLUMN C11 WEST			1.0		1.0				1	144	24
25	20	1	12	12	3/4	POWER COLUMN B11 NORTH	1.0			1.0							

PANELBOARD L8MFA														SURFACE MOUNTED					
300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP																			
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wires 60 HZ 400 AMP BUS																			
L.C. NO.	CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	L.C. NO.		
						A	B	C	A	B	C								
1	20	1	12	12	3/4	POWER COLUMN E11 NORTH	1.0			16.0			PANEL L8MFA	1 1/4	6	2	3	160	4
3	20	1	12	12	3/4	POWER COLUMN E11 EAST	1.0			12.0									
5	20	1	12	12	3/4	POWER COLUMN E11 SOUTH	1.0			1.0									
7	20	1	12	12	3/4	POWER COLUMN E11 WEST	1.0			1.0									
9	20	1	12	12	3/4	POWER COLUMN B10 NORTH	1.0			1.0									
11	20	1	12	12	3/4	POWER COLUMN B10 EAST	1.0			1.0									
13	20	1	12	12	3/4	POWER COLUMN B10 SOUTH	1.0			1.0									
15	20	1	12	12	3/4	POWER COLUMN B10 WEST	1.0			1.0									
17	20	1	12	12	3/4	POWER COLUMN C10 NORTH	1.0			1.0									
19	20	1	12	12	3/4	POWER COLUMN C10 EAST	1.0			1.0									
21	20	1	12	12	3/4	POWER COLUMN C10 SOUTH	1.0			1.0									
23	20	1	12	12	3/4	POWER COLUMN C10 WEST	1.0			1.0									
25	20	1	12	12	3/4	POWER COLUMN D10 NORTH	1.0			1.0									
27	20	1	12	12	3/4	POWER COLUMN D10 EAST	1.0			1.0									
29	20	1	12	12	3/4	POWER COLUMN D10 SOUTH	1.0			1.0									
31	20	1	12	12	3/4	POWER COLUMN D10 WEST	1.0			1.0									
33	20	1	12	12	3/4	POWER COLUMN E10 NORTH	1.0			1.0									
35	20	1	12	12	3/4	POWER COLUMN E10 EAST	1.0			1.0									
37	20	1	12	12	3/4	POWER COLUMN E10 SOUTH	1.0			1.0									
39	20	1	12	12	3/4	POWER COLUMN E10 WEST	1.0			1.0									
41	20	1	12	12	3/4	POWER COLUMN E9 WEST	1.0			1.0									
PHASE CONNECTED LOAD [KVA]						7.0	7.0	1.0	16.0	17.0	16.4	INVERS. RECEPTACLE LOAD [KVA]						26.0	
TOTAL CONNECTED LOAD [KVA]						A	22.0	B	24.0	C	22.4	INVERS. LTS AND GENERAL LOAD [KVA]						28.2	
TOTAL CONNECTED LOAD [A]						92.7			INVERS. MOTOR LOAD [KVA]						6.9				
125% OF DIVERSIFIED LOAD [A]						116.4			TOTAL DIVERSIFIED LOAD [A]						164.3				

PANELBOARD L8MFB														SURFACE MOUNTED					
300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP																			
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wires 60 HZ 225 AMP BUS																			
L.C. NO.	CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	L.C. NO.		
						A	B	C	A	B	C								
1	20	1	12	12	3/4	POWER COLUMN E7 NORTH	1.0			1.0			POWER COLUMN B7 NORTH	3/4	12	12	1	20	2
3	20	1	12	12	3/4	POWER COLUMN E7 EAST	1.0			1.0			POWER COLUMN B7 EAST	3/4	12	12	1	20	4
5	20	1	12	12	3/4	POWER COLUMN E7 SOUTH	1.0			1.0			POWER COLUMN B7 SOUTH	3/4	12	12	1	20	6
7	20	1	12	12	3/4	POWER COLUMN E7 WEST	1.0			1.0			POWER COLUMN B7 WEST	3/4	12	12	1	20	8
9	20	1	12	12	3/4	POWER COLUMN E8 NORTH	1.0			1.0			POWER COLUMN B8 NORTH	3/4	12	12	1	20	10
11	20	1	12	12	3/4	POWER COLUMN E8 EAST	1.0			1.0			POWER COLUMN B8 EAST	3/4	12	12	1	20	12
13	20	1	12	12	3/4	POWER COLUMN E8 SOUTH	1.0			1.0			POWER COLUMN B8 SOUTH	3/4	12	12	1	20	14
15	20	1	12	12	3/4	POWER COLUMN E8 WEST	1.0			1.0			POWER COLUMN B8 WEST	3/4	12	12	1	20	16
17	20	1	12	12	3/4	FLOOR BONES	1.0			1.0			POWER COLUMN B9 NORTH	3/4	12	12	1	20	18
19	20	1	12	12	3/4	FLOOR BONES	1.0			1.0			POWER COLUMN B9 EAST	3/4	12	12	1	20	20
21	20	1	12	12	3/4	FLOOR BONES	1.0			1.0			POWER COLUMN B9 SOUTH	3/4	12	12	1	20	22
23	20	1	12	12	3/4	FLOOR BONES	1.0			1.0			POWER COLUMN B9 WEST	3/4	12	12	1	20	24
25	20	1	12	12	3/4	FLOOR BONES	0.5			0.5			POWER COLUMN B9 NORTH	3/4	12	12	1	20	26
27	20	1	12	12	3/4	RECEPTS - OPEN OFFICE EAST	0.5			0.5			RECEPTS - COMM. ROOM	3/4	12	12	1	20	28
29	20	1	12	12	3/4	RECEPTS - OPEN OFFICE EAST	0.5			0.5			EMC - EAST CORRIDOR	3/4	12	12	1	20	30
31	20	1	12	12	3/4	RECEPTS - OPEN OFFICE EAST	0.5			1.2			RECEPTS - WOMEN'S ROOM	3/4	12	12	1	20	32
33	20	1	12	12	3/4	RECEPTS - OPEN OFFICE EAST	0.5			1.0			REFRM. - BREAK AREA EAST	3/4	12	12	1	20	34
35	20	1	12	12	3/4	ARA BOOR OPENER	0.5			0.5			RECEPTS - BREAK AREA EAST	3/4	12	12	1	20	36
37	20	1				SPARE							SPARE						
39	20	1	12	12	3/4	STONE TOP - BREAK AREA EAST	1.0			1.0			SPARE						
41	20	1				SPARE							SPARE						
PHASE CONNECTED LOAD [KVA]						6.1	6.4	6.1	6.7	6.6	6.3	INVERS. RECEPTACLE LOAD [KVA]						26.0	
TOTAL CONNECTED LOAD [KVA]						A	16.0	B	12.0	C	16.4	INVERS. LTS AND GENERAL LOAD [KVA]						2.8	
TOTAL CONNECTED LOAD [A]						32.7			INVERS. MOTOR LOAD [KVA]						6.8				
125% OF DIVERSIFIED LOAD [A]						41.4			TOTAL DIVERSIFIED LOAD [A]						62.7				

PANELBOARD H8MFB														SURFACE MOUNTED					
400 AMP MAIN CIRCUIT BREAKER W/ 400 AMP TRIP																			
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wires 60 HZ 400 AMP BUS																			
L.C. NO.	CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	L.C. NO.		
						A	B	C	A	B	C								
1	20	1	12	12	3/4	LIGHTING - WEST OFFICE	2.0						SPARE						
3	20	1	12	12	3/4	LIGHTING - WEST OFFICE	1.0						SPARE						
5	20	1	12	12	3/4	LIGHTING - LOBBY/CORRIDOR				3.0			SPARE						
7	20	1	12	12	3/4	PANEL BFB	0.5						SPARE						
9	20	1				SPARE							SPARE						
11	20	1				SPARE							SPARE						
13	20	1				SPARE							SPARE						
15	20	1				SPARE							SPARE						
17	20	1				SPARE							SPARE						
19	20	1				SPARE							SPARE						
21	20	1				SPARE							SPARE						
23	20	1				SPARE							SPARE						
25	20	1				SPARE							SPARE						
27	20	1				SPARE							SPARE						
29	20	1				SPARE							SPARE						
31	20	1				SPARE							SPARE						
33	20	1				SPARE							SPARE						
35	20	1				SPARE							SPARE						
37	20	1				SPARE							SPARE						
39	20	1				SPARE							SPARE						
41	20	1				SPARE							SPARE						
PHASE CONNECTED LOAD [KVA]						2.0	1.0	3.0	23.0	22.7	21.0	INVERS. RECEPTACLE LOAD [KVA]						6.0	
TOTAL CONNECTED LOAD [KVA]						A	26.3	B	24.6	C	24.0	INVERS. LTS AND GENERAL LOAD [KVA]						75.7	
TOTAL CONNECTED LOAD [A]						91.1			INVERS. MOTOR LOAD [KVA]						6.0				
125% OF DIVERSIFIED LOAD [A]						113.8			TOTAL DIVERSIFIED LOAD [A]						91.1				

PANELBOARD L8MFC														SURFACE MOUNTED					
300 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP																			
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wires 60 HZ 400 AMP BUS																			
L.C. NO.	CKT. NO.	WIRE	GND	CON.	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON.	GND	WIRE	CKT. NO.	L.C. NO.		
						A	B	C	A	B	C								
1	20	1	12	12	3/4	POWER COLUMN E2 NORTH	1.0			11.8			PANEL L8MFC	1 1/4	6	2	3	160	4
3	20	1	12	12	3/4	POWER COLUMN E2 EAST	1.0			1.0									
5	20	1	12	12	3/4	POWER COLUMN E2 SOUTH	1.0			1.0									
7	20	1	12	12	3/4	POWER COLUMN E2 WEST	1.0			1.0			POWER COLUMN B3 NORTH	3/4	12	12	1	20	8
9	20	1	12	12	3/4	POWER COLUMN B2 NORTH	1.0			1.0			POWER COLUMN B3 EAST	3/4	12	12	1	20	10
11	20	1	12	12	3/4	POWER COLUMN B2 EAST	1.0			1.0			POWER COLUMN B3 SOUTH	3/4	12	12	1	20	12
13	20	1	12	12	3/4	POWER COLUMN B2 SOUTH	1.0			1.0			POWER COLUMN B3 WEST	3/4	12	12	1	20	14
15	20	1	12	12	3/4	POWER COLUMN B2 WEST	1.0			1.0			POWER COLUMN C3 NORTH	3/4	12	12	1	20	16
17	20	1	12	12	3/4	POWER COLUMN C2 NORTH	1.0			1.0			POWER COLUMN C3 EAST	3/4	12	12	1	20	18
19	20	1	12	12	3/4	POWER COLUMN C2 EAST	1.0			1.0			POWER COLUMN C3 SOUTH	3/4	12	12	1	20	20
21	20	1	12	12	3/4	POWER COLUMN C2 SOUTH	1.0			1.0			POWER COLUMN C3 WEST	3/4	12	12	1	20	22
23	20	1	12	12	3/4	POWER COLUMN C2 WEST	1.0			1.0			POWER COLUMN B3 NORTH	3/4	12	12	1	20	24
25	20	1	12	12	3/4	POWER COLUMN B2 NORTH	1.0			1.0			POWER COLUMN B3 EAST	3/4	12	12	1	20	26
27	20	1	12	12	3/4	POWER COLUMN B2 EAST	1.0			1.0			POWER COLUMN B3 SOUTH	3/4	12	12	1	20	28
29	20	1	12	12	3/4	POWER COLUMN B2 SOUTH	1.0			1.0			POWER COLUMN B3 WEST	3/4	12	12	1	20	30
31	20	1	12	12	3/4	POWER COLUMN B2 WEST	1.0			1.0			POWER COLUMN E4 NORTH	3/4	12	12	1	20	32
33	20	1	12	12	3/4	POWER COLUMN E3 NORTH	1.0			1.0			POWER COLUMN E4 EAST	3/4	12	12	1	20	



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100% CD SUBMISSION OCTOBER 8, 2010

**WEST VIRGINIA STATE  
OFFICE BUILDING NO.3  
RENOVATION**

1900 KANAWHA BOULEVARD EAST  
BUILDING NO. 3, CAPITOL COMPLEX  
CHARLESTON, WEST VIRGINIA 25305

PANEL SCHEDULES

**E-711**

PANELBOARD L7MFA												SURFACE MOUNTED				
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP																
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS																
CIRCUIT NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT BREAKER	CIRCUIT NO.		
						A	B	C							A	B
1	20	1	12	12	3/4	LIGHTING - EAST OFFICE	1.5						1	20	2	
3	20	1				SPARE							1	20	4	
5	20	1				SPARE							1	20	6	
7	20	1				SPARE							1	20	8	
9	20	1				SPARE							1	20	10	
11	20	1				SPARE							1	20	12	
13	20	1				SPARE							1	20	14	
15	20	1				SPARE							1	20	16	
17	20	1				SPARE							1	20	18	
19	20	1				SPARE							1	20	20	
21	20	1				SPARE							1	20	22	
23	20	1				SPARE							1	20	24	
25	20	1				SPARE							1	20	26	
27	20	1				SPARE							1	20	28	
29	20	1				SPARE							1	20	30	
31	20	1				SPARE							1	20	32	
33	20	1				SPARE							1	20	34	
35	20	1				SPARE							1	20	36	
37	20	1				SPARE							1	20	38	
39	20	1				SPARE							1	20	40	
41	20	1				SPARE							1	20	42	
PHASE CONNECTED LOAD [KVA]						1.5	0.0	0.0	7.0	7.5	6.5	DIVERS. RECEPTACLE LOAD [KVA]				0.0
TOTAL CONNECTED LOAD [KVA]						A	0.4	B	7.5	C	6.5	DIVERS. LTC AND GENERAL LOAD [KVA]				22.5
TOTAL CONNECTED LOAD [A]						22.5						DIVERS. MOTOR LOAD [KVA]				0.0
125% OF DIVERSIFIED LOAD [A]						27.1						TOTAL DIVERSIFIED LOAD [A]				27.1
						33.8										

PANELBOARD L7MFA												SURFACE MOUNTED				
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 100 AMP BUS																
CIRCUIT NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT BREAKER	CIRCUIT NO.		
						A	B	C							A	B
1	20	1	12	12	3/4	POWER COLUMN B10 NORTH	1.0							1	20	2
3	20	1	12	12	3/4	POWER COLUMN B10 EAST	1.0	1.0						3	160	4
5	20	1	12	12	3/4	POWER COLUMN B10 SOUTH			1.0					1	20	6
7	20	1	12	12	3/4	POWER COLUMN B10 WEST	1.0			1.0				1	20	8
9	20	1	12	12	3/4	POWER COLUMN C10 NORTH		1.0			1.0			1	20	10
11	20	1	12	12	3/4	POWER COLUMN C10 EAST			1.0		1.0			1	20	12
13	20	1	12	12	3/4	POWER COLUMN C10 SOUTH	1.0			1.0				1	20	14
15	20	1	12	12	3/4	POWER COLUMN C10 WEST		1.0			1.0			1	20	16
17	20	1	12	12	3/4	EWG - EAST CORRIDOR			0.5			1.0		1	20	18
19	20	1	12	12	3/4	RECEPTS - WOMEN'S RESTROOM	1.0			0.5				1	20	20
21	20	1	12	12	3/4	RECEPTS - OPEN OFFICE EAST		0.5			1.0			1	20	22
23	20	1	12	12	3/4	RECEPTS - OPEN OFFICE EAST			0.5			0.2		1	20	24
25	20	1	12	12	3/4	ADA DOOR OPENER	0.5			0.5				1	20	26
27	20	1	12	12	3/4	DOUBLE DUPLEX - RM 705		0.4			0.6			1	20	28
29	20	1				SPARE								1	20	30
31	20	1				SPARE								1	20	32
33	20	1				SPARE								1	20	34
35	20	1				SPARE								1	20	36
37	20	1				SPARE								1	20	38
39	20	1				SPARE								1	20	40
41	20	1				SPARE								1	20	42
PHASE CONNECTED LOAD [KVA]						4.5	4.0	3.3	3.4	3.6	2.2	DIVERS. RECEPTACLE LOAD [KVA]				15.3
TOTAL CONNECTED LOAD [KVA]						A	7.9	B	7.6	C	6.5	DIVERS. LTC AND GENERAL LOAD [KVA]				0.4
TOTAL CONNECTED LOAD [A]						21.8						DIVERS. MOTOR LOAD [KVA]				0.0
125% OF DIVERSIFIED LOAD [A]						54.5						TOTAL DIVERSIFIED LOAD [A]				43.6

PANELBOARD L7MFB												SURFACE MOUNTED				
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP																
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS																
CIRCUIT NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT BREAKER	CIRCUIT NO.		
						A	B	C							A	B
1	20	1	12	12	3/4	LIGHTING - WEST OFFICE	1.7							1	20	2
3	20	1	12	12	3/4	LIGHTING - LOBBY	2.0							1	20	4
5	20	1	12	12	3/4	PANEL W/7			0.5					1	20	6
7	20	1												1	20	8
9	20	1												1	20	10
11	20	1												1	20	12
13	20	1												1	20	14
15	20	1												1	20	16
17	20	1												1	20	18
19	20	1												1	20	20
21	20	1												1	20	22
23	20	1												1	20	24
25	20	1												1	20	26
27	20	1												1	20	28
29	20	1												1	20	30
31	20	1												1	20	32
33	20	1												1	20	34
35	20	1												1	20	36
37	20	1												1	20	38
39	20	1												1	20	40
41	20	1												1	20	42
PHASE CONNECTED LOAD [KVA]						1.7	2.0	0.5	7.7	6.8	6.9	DIVERS. RECEPTACLE LOAD [KVA]				0.0
TOTAL CONNECTED LOAD [KVA]						A	0.4	B	9.5	C	6.4	DIVERS. LTC AND GENERAL LOAD [KVA]				25.3
TOTAL CONNECTED LOAD [A]						26.4						DIVERS. MOTOR LOAD [KVA]				0.0
125% OF DIVERSIFIED LOAD [A]						30.0						TOTAL DIVERSIFIED LOAD [A]				30.4

PANELBOARD L7MFC												SURFACE MOUNTED				
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 100 AMP BUS																
CIRCUIT NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT BREAKER	CIRCUIT NO.		
						A	B	C							A	B
1	20	1	12	12	3/4	POWER COLUMN B0 NORTH	1.0							1	20	2
3	20	1	12	12	3/4	POWER COLUMN B0 EAST	1.0	1.0						3	160	4
5	20	1	12	12	3/4	POWER COLUMN B0 SOUTH			1.0					1	20	6
7	20	1	12	12	3/4	POWER COLUMN B0 WEST	1.0			1.0				1	20	8
9	20	1	12	12	3/4	POWER COLUMN C0 NORTH		1.0			1.0			1	20	10
11	20	1	12	12	3/4	POWER COLUMN C0 EAST			1.0		1.0			1	20	12
13	20	1	12	12	3/4	POWER COLUMN C0 SOUTH	1.0			1.0				1	20	14
15	20	1	12	12	3/4	POWER COLUMN C0 WEST		1.0			1.0			1	20	16
17	20	1	12	12	3/4	EWG - WEST CORRIDOR			0.5			1.0		1	20	18
19	20	1	12	12	3/4	RECEPTS - MEN'S ROOM	0.5			0.5				1	20	20
21	20	1	12	12	3/4	RECEPTS - OPEN OFFICE WEST		0.5			1.0			1	20	22
23	20	1	12	12	3/4	RECEPTS - OPEN OFFICE WEST			0.5			0.5		1	20	24
25	20	1	12	12	3/4	ADA DOOR OPENER	0.5			0.5				1	20	26
27	20	1				SPARE								1	20	28
29	20	1				SPARE								1	20	30
31	20	1				SPARE								1	20	32
33	20	1				SPARE								1	20	34
35	20	1				SPARE								1	20	36
37	20	1				SPARE								1	20	38
39	20	1				SPARE								1	20	40
41	20	1				SPARE								1	20	42
PHASE CONNECTED LOAD [KVA]						4.1	3.6	3.3	3.6	3.0	2.6	DIVERS. RECEPTACLE LOAD [KVA]				13.4
TOTAL CONNECTED LOAD [KVA]						A	7.7	B	6.6	C	6.9	DIVERS. LTC AND GENERAL LOAD [KVA]				3.4
TOTAL CONNECTED LOAD [A]						26.2						DIVERS. MOTOR LOAD [KVA]				0.0
125% OF DIVERSIFIED LOAD [A]						55.1						TOTAL DIVERSIFIED LOAD [A]				48.8

PANELBOARD UPS7												SURFACE MOUNTED				
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 100 AMP BUS																
CIRCUIT NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CIRCUIT BREAKER	CIRCUIT NO.		
						A	B	C							A	B
1	20	1	12	12	3/4	TELEDATA RECEPTACLE - WEST	0.2							1	20	2
3	20	1	12	12	3/4	TELEDATA RECEPTACLE - WEST	0.2			0.2						



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PANELBOARD HWPA															SURFACE MOUNTED			
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP																		
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS																		
CKT. NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CKT. NO.	CCT.	
						A	B	C	A	B	C							
1	20	1	12	12	3/4	LIGHTING - EAST OFFICE	1.3									1	20	2
3	20	1				SPARE										1	20	4
5	20	1				SPARE										1	20	6
7	20	1				SPARE										1	20	8
9	20	1				SPARE										1	20	10
11	20	1				SPARE										1	20	12
13	20	1				SPARE										1	20	14
15	20	1				SPARE										1	20	16
17	20	1				SPARE										1	20	18
19	20	1				SPARE										1	20	20
21	20	1				SPARE										1	20	22
23	20	1				SPARE										1	20	24
25	20	1				SPARE										1	20	26
27	20	1				SPARE										1	20	28
29	20	1				SPARE										1	20	30
31	20	1				SPARE										1	20	32
33	20	1				SPARE										1	20	34
35	20	1				SPARE										1	20	36
37	20	1				SPARE										1	20	38
39	20	1				SPARE										1	20	40
41	20	1				SPARE										1	20	42
PHASE CONNECTED LOAD [KVA]						1.3	0.0	0.0	0.5	7.0	7.2	INVERS. RECEPTACLE LOAD [KVA]						0.0
TOTAL CONNECTED LOAD [KVA]						A	0.5	B	7.0	C	7.2	INVERS. LTC AND GENERAL LOAD [KVA]						24.0
TOTAL CONNECTED LOAD [A]						24.0						INVERS. MOTOR LOAD [KVA]						0.0
125% OF DIVERSIFIED LOAD [A]						30.0						TOTAL DIVERSIFIED LOAD [A]						30.0
																		37.4

PANELBOARD LMPA															SURFACE MOUNTED				
400 AMP MAIN CIRCUIT BREAKER W/ 300 AMP TRIP																			
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 400 AMP BUS																			
CKT. NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CKT. NO.	CCT.		
						A	B	C	A	B	C								
1	20	1	12	12	3/4	POWER COLUMN B16 NORTH	1.0									1	20	2	
3	20	1	12	12	3/4	POWER COLUMN B16 EAST		1.0									1	20	4
5	20	1	12	12	3/4	POWER COLUMN B16 SOUTH			1.0								3	160	6
7	20	1	12	12	3/4	POWER COLUMN B16 WEST	1.0			1.0							1	20	8
9	20	1	12	12	3/4	POWER COLUMN C16 NORTH		1.0			1.0						1	20	10
11	20	1	12	12	3/4	POWER COLUMN C16 EAST			1.0		1.0						1	20	12
13	20	1	12	12	3/4	POWER COLUMN C16 SOUTH	1.0			1.0							1	20	14
15	20	1	12	12	3/4	POWER COLUMN C16 WEST		1.0			1.0						1	20	16
17	20	1	12	12	3/4	EWG - EAST CORRIDOR				1.2		1.0					1	20	18
19	20	1	12	12	3/4	RECEPT - WOMENS RESTROOM	1.0			0.0							1	20	20
21	20	1	12	12	3/4	RECEPT - OPEN OFFICE EAST	0.6				1.0						1	20	22
23	20	1	12	12	3/4	RECEPT - CORE WALL SOUTH				0.6		0.4					1	20	24
25	20	1	12	12	3/4	PROJECTOR - RM 300	0.5			0.0							1	20	26
27	20	1	12	12	3/4	PROJECTOR SCREEN - RM 300	0.5			0.0		0.0					1	20	28
29	20	1	12	12	3/4	APL BOOK OFFICE				0.5							1	20	30
31	20	1	12	12	3/4	DOUBLE DUPLEX - RM 300				0.4							1	20	32
33	20	1	12	12	3/4	SPARE											1	20	34
35	20	1	12	12	3/4	SPARE											1	20	36
37	20	1	12	12	3/4	SPARE											1	20	38
39	20	1	12	12	3/4	SPARE											1	20	40
41	20	1	12	12	3/4	SPARE											1	20	42
PHASE CONNECTED LOAD [KVA]						4.0	4.1	4.3	3.0	3.0	2.0	INVERS. RECEPTACLE LOAD [KVA]						3.7	
TOTAL CONNECTED LOAD [KVA]						A	0.5	B	7.0	C	7.2	INVERS. LTC AND GENERAL LOAD [KVA]						18.0	
TOTAL CONNECTED LOAD [A]						23.6						INVERS. MOTOR LOAD [KVA]						0.0	
125% OF DIVERSIFIED LOAD [A]						30.0						TOTAL DIVERSIFIED LOAD [A]						30.0	
																		51.0	

PANELBOARD HWPB															SURFACE MOUNTED				
225 AMP MAIN CIRCUIT BREAKER W/ 225 AMP TRIP																			
CIRCUIT BREAKER TYPE 400 / 277 3 Phase 4 Wire 60 HZ 225 AMP BUS																			
CKT. NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CKT. NO.	CCT.		
						A	B	C	A	B	C								
1	20	1	12	12	3/4	LIGHTING - WEST OFFICE	1.6									1	20	2	
3	20	1	12	12	3/4	LIGHTING - LOBBY		2.0									1	20	4
5	20	1	12	12	3/4	PANEL BPS			0.5								1	20	6
7	20	1				SPARE											1	20	8
9	20	1				SPARE											1	20	10
11	20	1				SPARE											1	20	12
13	20	1				SPARE											1	20	14
15	20	1				SPARE											1	20	16
17	20	1				SPARE											1	20	18
19	20	1				SPARE				7.5							1	20	20
21	20	1				SPARE					7.0						1	20	22
23	20	1				SPARE						7.0					1	20	24
PHASE CONNECTED LOAD [KVA]						1.6	2.0	0.5	7.5	7.0	7.0	INVERS. RECEPTACLE LOAD [KVA]						0.0	
TOTAL CONNECTED LOAD [KVA]						A	0.1	B	10.5	C	7.0	INVERS. LTC AND GENERAL LOAD [KVA]						27.1	
TOTAL CONNECTED LOAD [A]						27.1						INVERS. MOTOR LOAD [KVA]						0.0	
125% OF DIVERSIFIED LOAD [A]						32.0						TOTAL DIVERSIFIED LOAD [A]						32.0	
																		40.7	

PANELBOARD LMPB															SURFACE MOUNTED				
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																			
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 100 AMP BUS																			
CKT. NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CKT. NO.	CCT.		
						A	B	C	A	B	C								
1	20	1	12	12	3/4	POWER COLUMN B3 NORTH	1.0									1	20	2	
3	20	1	12	12	3/4	POWER COLUMN B3 EAST		1.0									3	160	4
5	20	1	12	12	3/4	POWER COLUMN B3 SOUTH			1.0								1	20	6
7	20	1	12	12	3/4	POWER COLUMN B3 WEST	1.0			1.0							1	20	8
9	20	1	12	12	3/4	POWER COLUMN C3 NORTH		1.0			1.0						1	20	10
11	20	1	12	12	3/4	POWER COLUMN C3 EAST			1.0		1.0						1	20	12
13	20	1	12	12	3/4	POWER COLUMN C3 SOUTH	1.0			1.0							1	20	14
15	20	1	12	12	3/4	POWER COLUMN C3 WEST		1.0			1.0						1	20	16
17	20	1	12	12	3/4	EWG - WEST CORRIDOR				0.5		1.0					1	20	18
19	20	1	12	12	3/4	RECEPT - MEN'S ROOM	0.5			0.0							1	20	20
21	20	1	12	12	3/4	RECEPT - OPEN OFFICE WEST	0.6				1.0						1	20	22
23	20	1	12	12	3/4	RECEPT - OPEN OFFICE WEST				1.0		0.6					1	20	24
25	20	1	12	12	3/4	RECEPT - OPEN OFFICE WEST	0.5			0.5							1	20	26
27	20	1	12	12	3/4	PROJECTOR SCREEN - RM 300				0.5		0.5					1	20	28
29	20	1	12	12	3/4	DOUBLE DUPLEX - RM 300				0.4							1	20	30
31	20	1				SPARE											1	20	32
33	20	1				SPARE											1	20	34
35	20	1				SPARE											1	20	36
37	20	1				SPARE											1	20	38
39	20	1				SPARE											1	20	40
41	20	1				SPARE											1	20	42
PHASE CONNECTED LOAD [KVA]						4.2	4.1	3.0	3.3	3.5	3.1	INVERS. RECEPTACLE LOAD [KVA]						14.0	
TOTAL CONNECTED LOAD [KVA]						A	7.5	B	7.0	C	7.0	INVERS. LTC AND GENERAL LOAD [KVA]						2.0	
TOTAL CONNECTED LOAD [A]						22.1						INVERS. MOTOR LOAD [KVA]						0.0	
125% OF DIVERSIFIED LOAD [A]						30.0						TOTAL DIVERSIFIED LOAD [A]						30.0	
																		40.7	

PANELBOARD WPB															SURFACE MOUNTED		
100 AMP MAIN CIRCUIT BREAKER W/ 100 AMP TRIP																	
CIRCUIT BREAKER TYPE 200 / 120 3 Phase 4 Wire 60 HZ 100 AMP BUS																	
CKT. NO.	CIRCUIT BREAKER	WIRE	GND	CON	LOAD SERVED	LOAD [KVA]			LOAD [KVA]			LOAD SERVED	CON	GND	WIRE	CKT. NO.	CCT.
						A	B	C	A	B	C						
1	20	1	12	12	3/4	TELEBATA RECEPTACLE - WEST	0.2			0.2			TELEBATA RECEPTACLE				







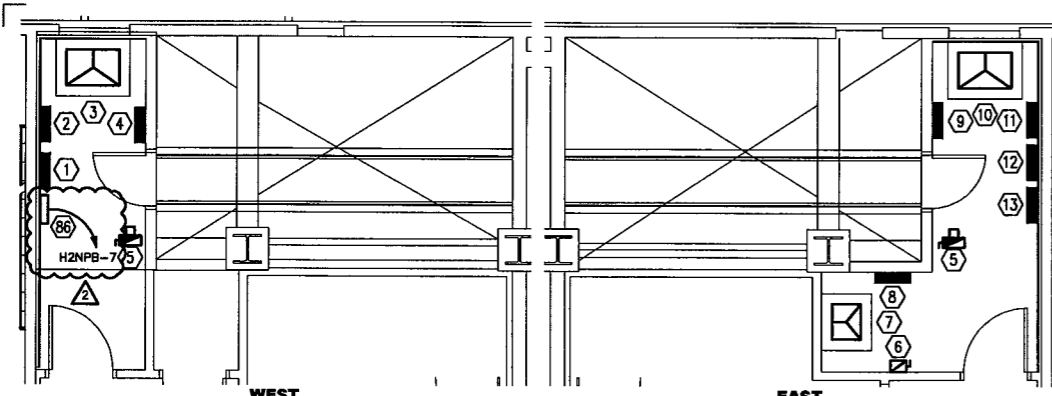
4 BOULEVARD OF THE ALLIES  
 PITTSBURGH, PA 15219-13 1  
 412.391.2 4 PH  
 412.391.1 57 FX  
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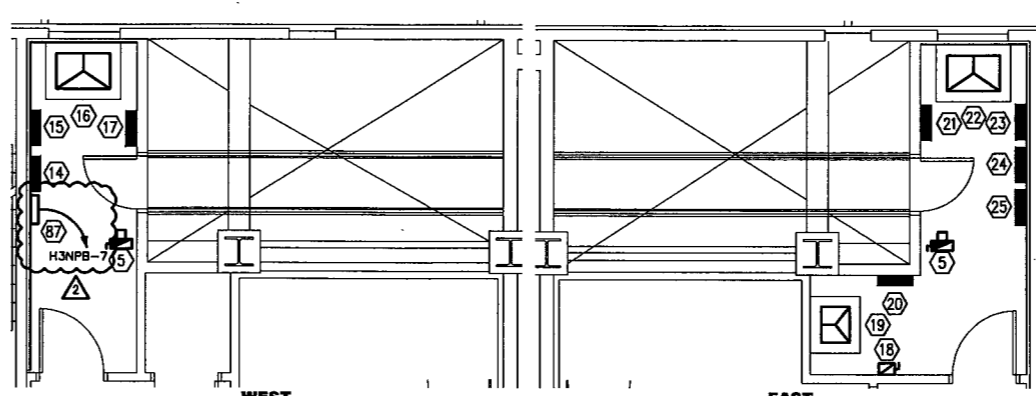
822 Emery Street  
 Johnstown, PA 15008-1888  
 PA (412) 838-5881 FAX (412) 838-0788  
 C.E. Project # 97-006

**NUMBERED NOTES:**

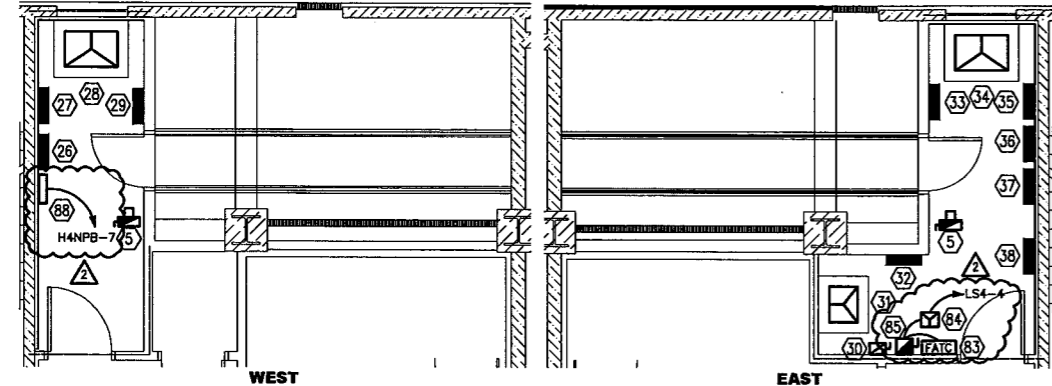
- 1 PANEL L2NPD.
- 2 PANEL L2NPC.
- 3 TRANSFORMER T2NP2.
- 4 PANEL H2NPB.
- 5 225A PLUG-IN CIRCUIT BREAKER IN PLUG-IN BUS.
- 6 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES
- 7 TRANSFORMER TUPS2.
- 8 PANEL UPS2.
- 9 PANEL H2NPA.
- 10 TRANSFORMER T2NP1.
- 11 PANEL L2NPA.
- 12 PANEL L2NPB.
- 13 PANEL H2MEA.
- 14 PANEL L3NPD.
- 15 PANEL L3NPC.
- 16 TRANSFORMER T3NP2.
- 17 PANEL H3NPB.
- 18 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES
- 19 TRANSFORMER TUPS3.
- 20 PANEL UPS3.
- 21 PANEL H3NPA.
- 22 TRANSFORMER T3NP1.
- 23 PANEL L3NPA.
- 24 PANEL L3NPB.
- 25 PANEL H3MEA.
- 26 PANEL L4NPD.
- 27 PANEL L4NPC.
- 28 TRANSFORMER T4NP2.
- 29 PANEL H4NPB.
- 30 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES
- 31 TRANSFORMER TUPS4.
- 32 PANEL UPS4.
- 33 PANEL H4NPA.
- 34 TRANSFORMER T4NP1.
- 35 PANEL L4NPA.
- 36 PANEL L4NPB.
- 37 PANEL H4MEA.
- 38 PANEL LS4.
- 39 PANEL L5NPD.
- 40 PANEL L5NPC.
- 41 TRANSFORMER T5NP2.
- 42 PANEL H5NPB.
- 43 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES
- 44 TRANSFORMER TUPS5.
- 45 PANEL UPS5.
- 46 PANEL H5NPA.
- 47 TRANSFORMER T5NP1.
- 48 PANEL L5NPA.
- 49 PANEL L5NPB.
- 50 PANEL H5MEA.
- 51 PANEL L6NPD.
- 52 PANEL L6NPC.
- 53 TRANSFORMER T6NP2.
- 54 PANEL H6NPB.
- 55 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES
- 56 TRANSFORMER TUPS6.
- 57 PANEL UPS6.
- 58 PANEL H6NEA.
- 59 PANEL H6NPA.
- 60 TRANSFORMER T6NP1.
- 61 PANEL L6NPA.
- 62 PANEL L6NPB.
- 63 PANEL H6MEA.
- 64 PANEL L7NPC.
- 65 TRANSFORMER T7NP2.
- 66 PANEL H7NPB.
- 67 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES
- 68 TRANSFORMER TUPS7.
- 69 PANEL UPS7.
- 70 PANEL H7NPA.
- 71 TRANSFORMER T7NP1.
- 72 PANEL L7NPA.
- 73 PANEL LS7.
- 74 PANEL L8NPC.
- 75 TRANSFORMER T8NP2.
- 76 PANEL H8NPB.
- 77 60A FUSIBLE SAFETY SWITCH WITH 60A FUSES
- 78 TRANSFORMER TUPS8.
- 79 PANEL UPS8.
- 80 PANEL H8NPA.
- 81 TRANSFORMER T8NP1.
- 82 PANEL L8NPA.
- 83 FIRE ALARM TRANSPONDER CABINET.
- 84 2KVA WALL MOUNTED TRANSFORMER.
- 85 20A, 120V ENCLOSED CIRCUIT BREAKER.
- 86 PANEL DP2.
- 87 PANEL DP3.
- 88 PANEL DP4.
- 89 PANEL DP5.
- 90 PANEL DP6.
- 91 PANEL DP7.
- 92 PANEL DP8.



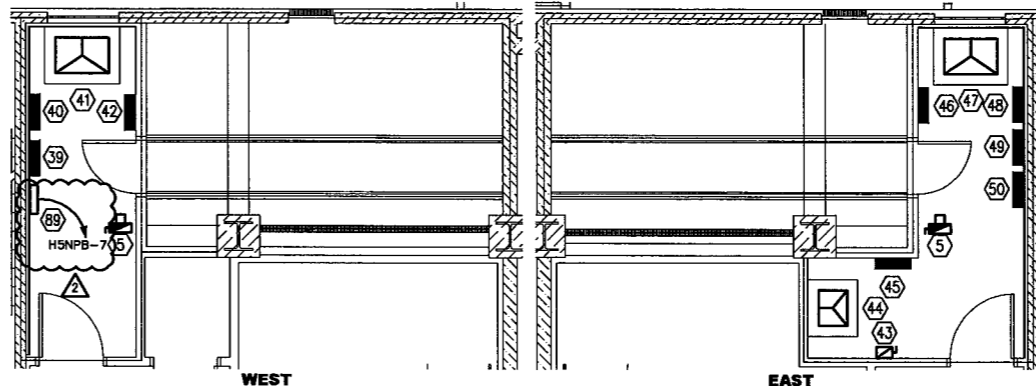
NOTE:  
 1 E-901 1/4" = 1'-0"  
**ENLARGED ELECTRICAL ROOMS - 2ND FLOOR**



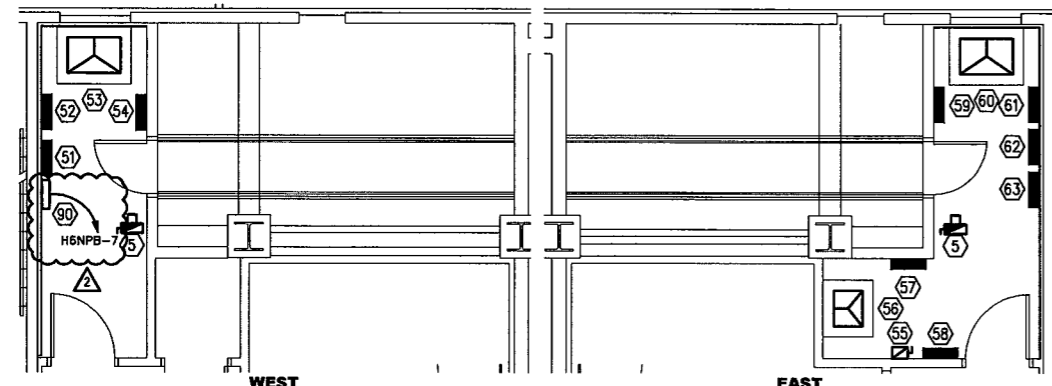
NOTE:  
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**ENLARGED ELECTRICAL ROOMS - 3RD FLOOR**



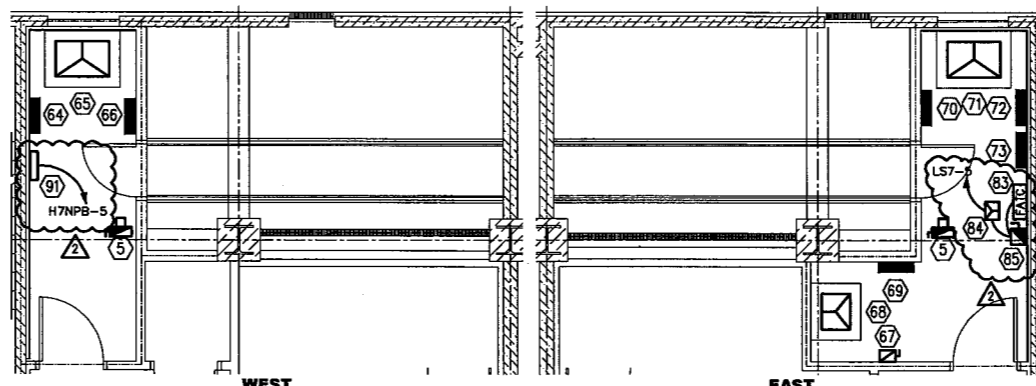
NOTE:  
 1 E-901 1/4" = 1'-0"  
**ENLARGED ELECTRICAL ROOMS - 4TH FLOOR**



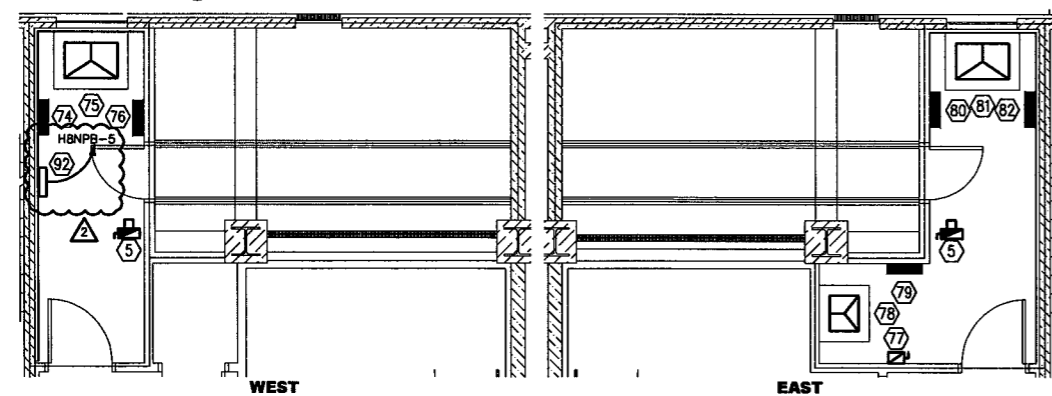
NOTE:  
 1 E-901 1/4" = 1'-0"  
**ENLARGED ELECTRICAL ROOMS - 5TH FLOOR**



NOTE:  
 1 E-901 1/4" = 1'-0"  
**ENLARGED ELECTRICAL ROOMS - 6TH FLOOR**



NOTE:  
 1 E-901 1/4" = 1'-0"  
**ENLARGED ELECTRICAL ROOMS - 7TH FLOOR**



NOTE:  
 1 E-901 1/4" = 1'-0"  
**ENLARGED ELECTRICAL ROOMS - 8TH FLOOR**

PWVG PROJECT NO. 20703.00  
 100% CD SUBMISSION OCTOBER 8, 2010  
 ADDENDUM #2 DECEMBER 8, 2010

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**WEST VIRGINIA STATE  
 OFFICE BUILDING NO.3  
 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

**ENLARGED ELECTRICAL  
 ROOMS**

**E-901**



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SSCP SECURITY SYSTEM CONTROL PANEL

ADDC AUTOMATED DIALER COMMUNICATOR

SECURITY CAMERA - PROVIDE 1" CONDUIT TO SECURITY DESK ON FIRST FLOOR. COORDINATE INSTALLATION WITH SECURITY CONTRACTOR. AIMING SHALL BE BY SECURITY CONTRACTOR.

SECURITY CAMERA IN BUBBLE-- PROVIDE 1" CONDUIT TO SECURITY DESK ON FIRST FLOOR. COORDINATE INSTALLATION WITH SECURITY CONTRACTOR. AIMING SHALL BE BY SECURITY CONTRACTOR.

SM SECURITY MONITOR

MS MOTION SENSOR

GB GLASS BREAK

SS SOUND SENSOR

PWWG PROJECT NO. 20703.00  
ADDENDUM #2 12/08/2010

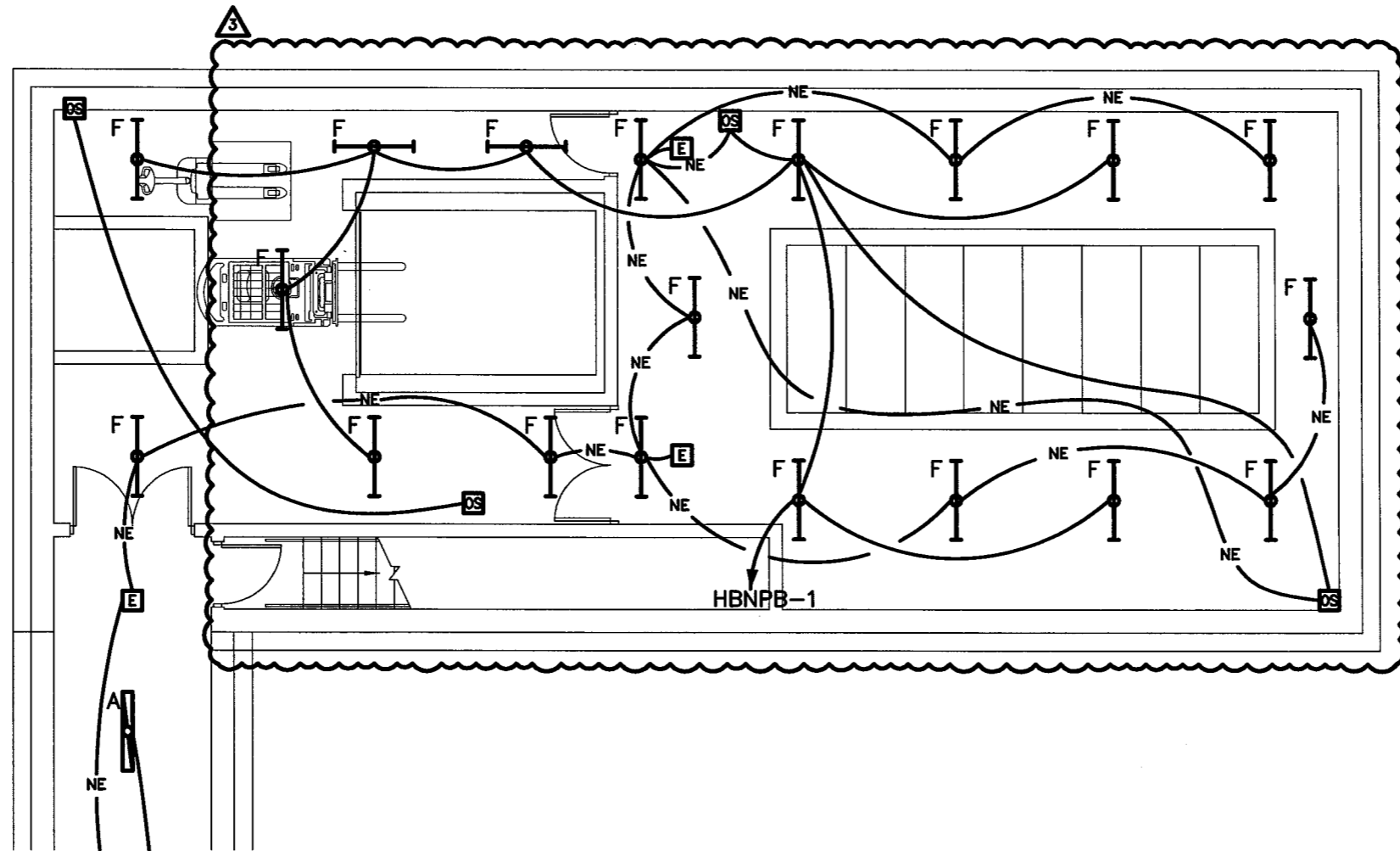
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ELECTRICAL COVER  
SHEET

**SKE-001a**  
REFERENCE DWG X-XXX



**1** **BASEMENT FLOOR PLAN - LIGHTING**  
EL-100 1/8" = 1'-0"

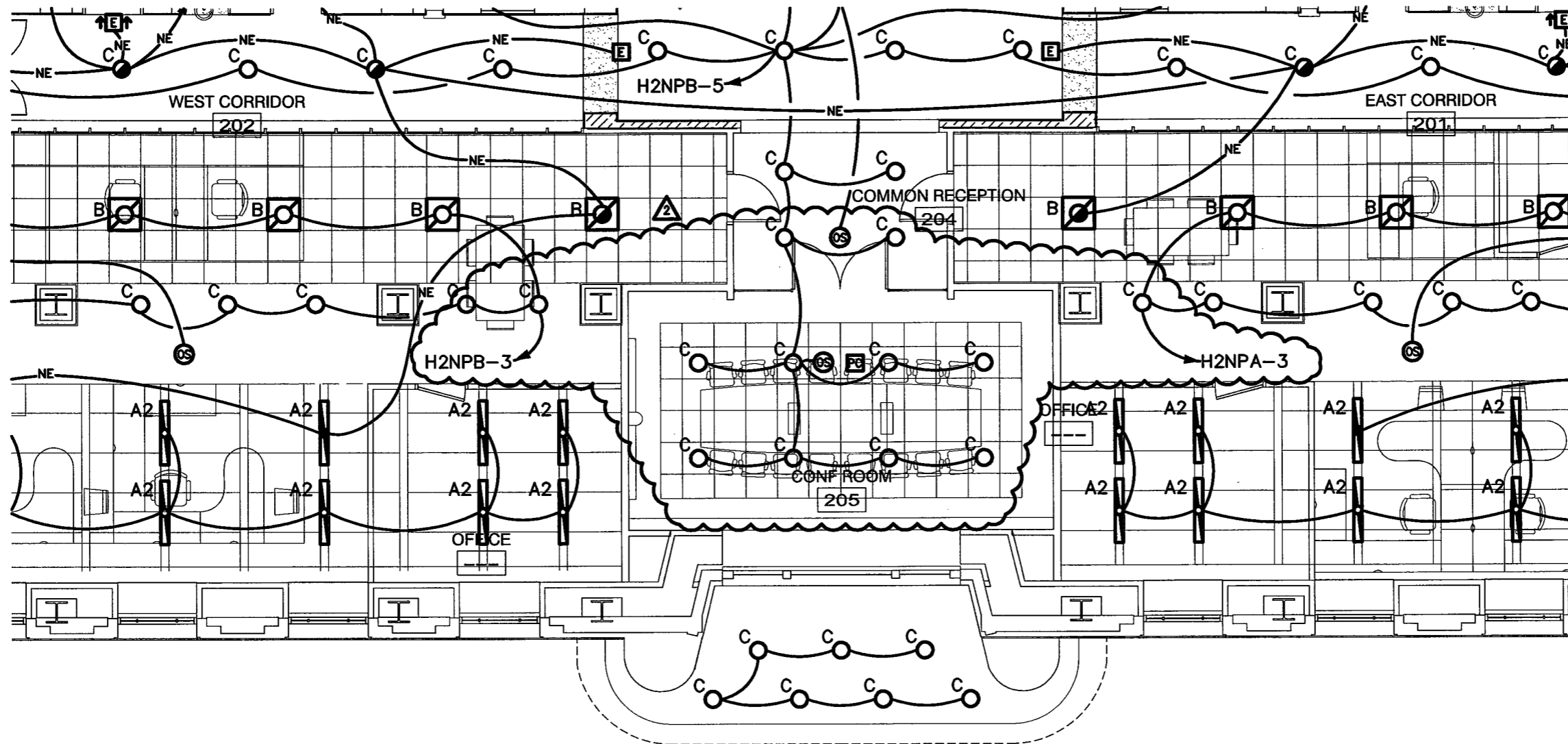
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BASEMENT FLOOR PLAN  
- LIGHTING



**1** **SECOND FLOOR PLAN - LIGHTING**  
SKEL-102 1/8" = 1'-0"

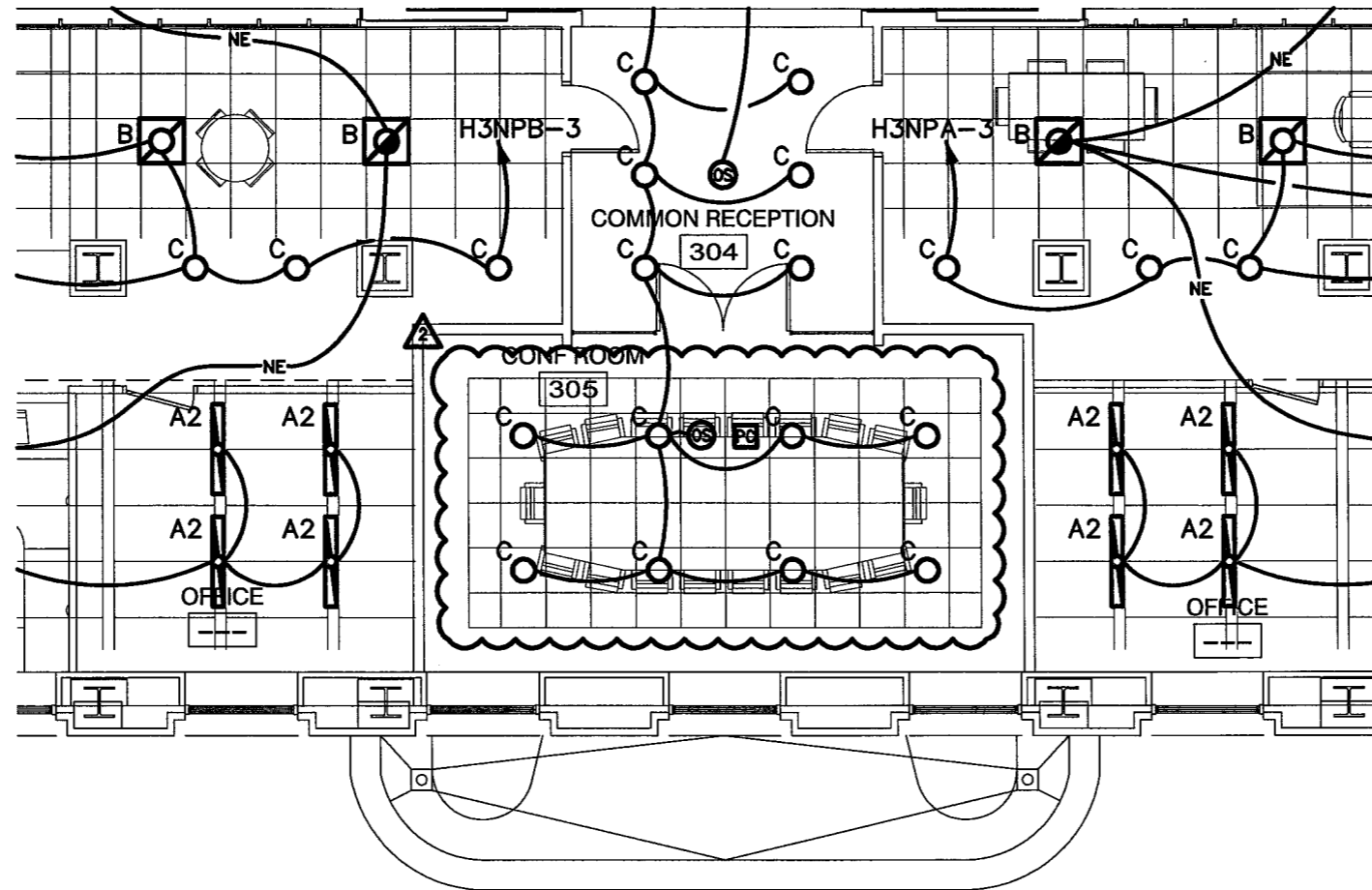
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SECOND FLOOR PLAN -  
LIGHTING



**1 THIRD FLOOR PLAN - LIGHTING**  
SKEL-103 1/8" = 1'-0"

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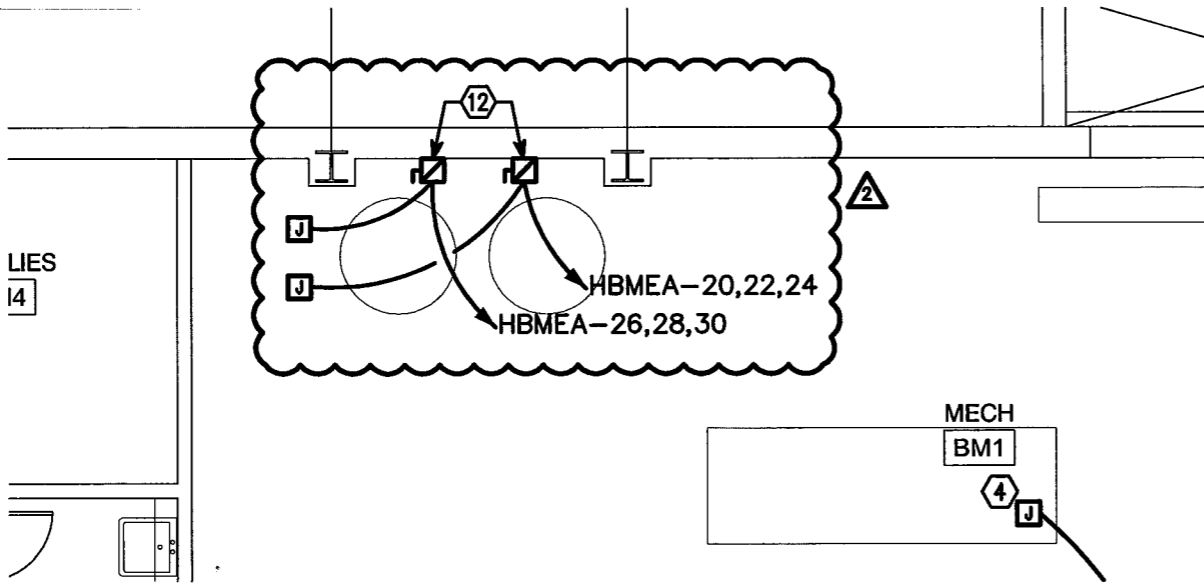
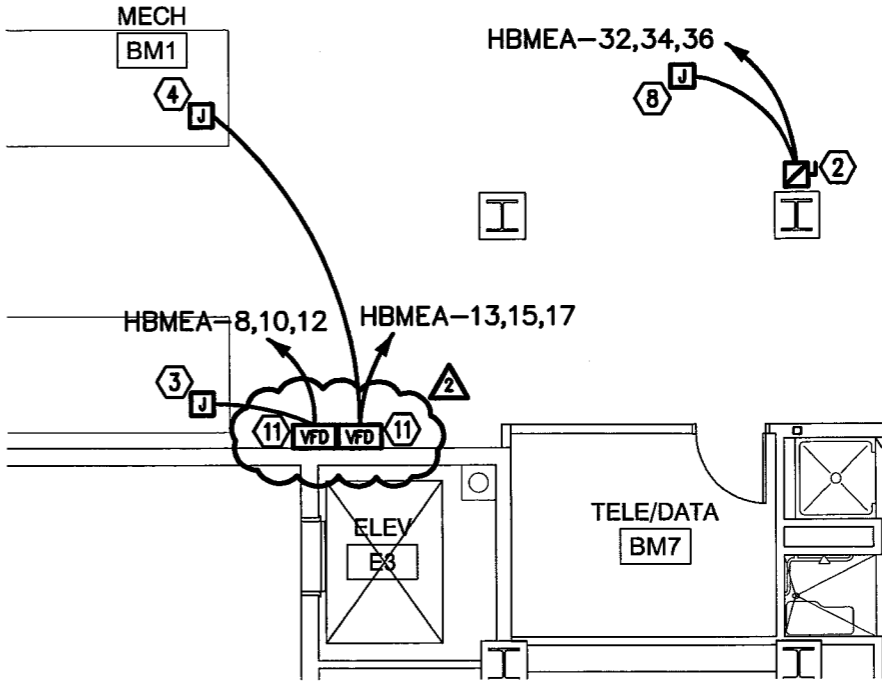
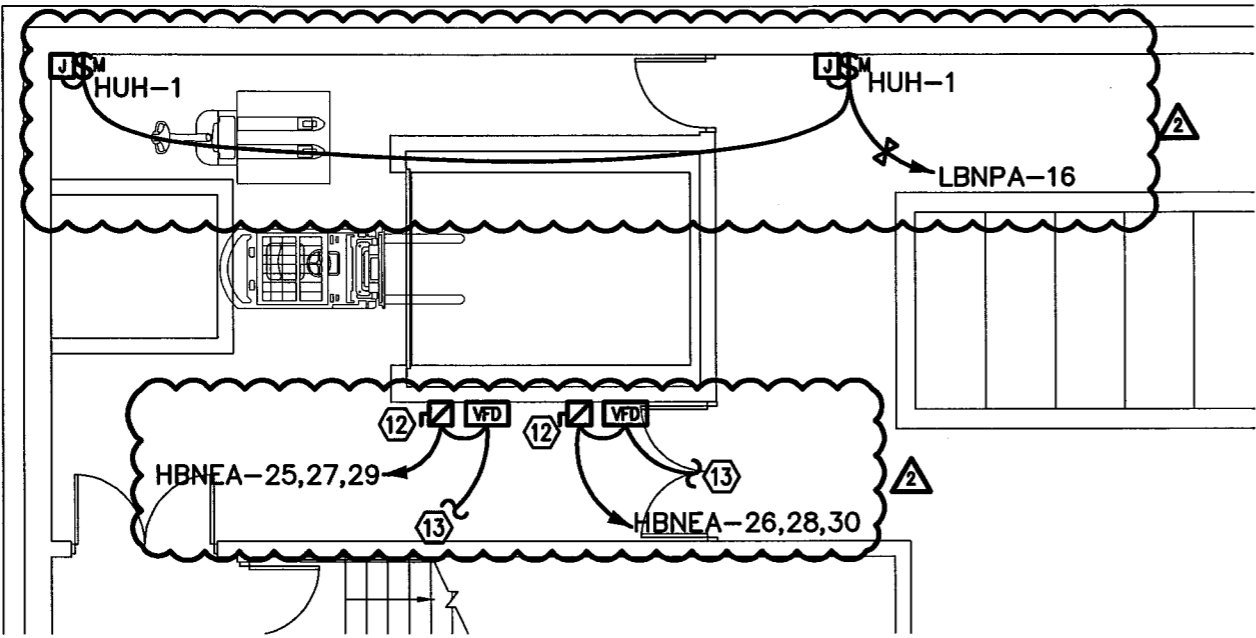
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THIRD FLOOR PLAN -  
LIGHTING

**SKEL-103a**  
REFERENCE DWG X-XXX



- ② ①① PROVIDE POWER CONNECTION TO AHU VFD.
- ② ①② 480V, 3PH, 30A FUSED SAFETY SWITCH WITH 20A FUSES.
- ② ①③ SEE SITE PLAN FOR CONTINUATION.

**1** **BASEMENT FLOOR PLAN - MECHANICAL POWER**  
SKEM-100 1/8" = 1'-0"

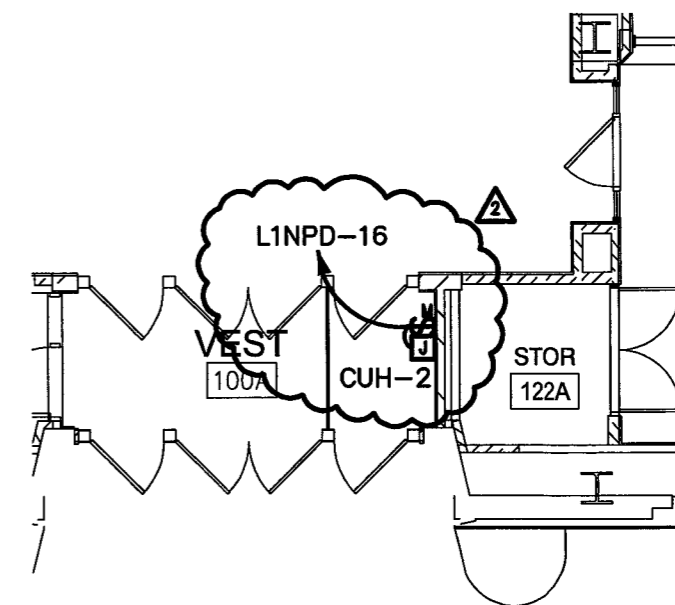
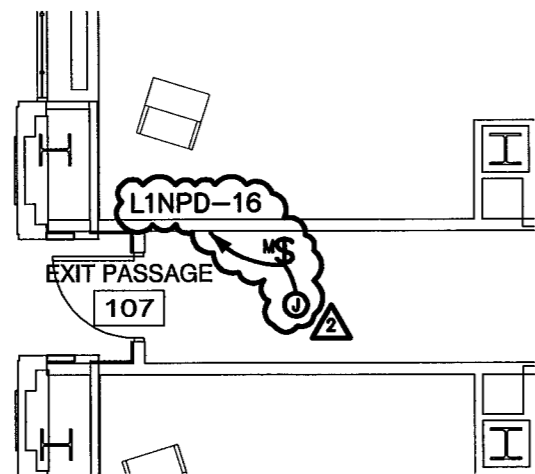
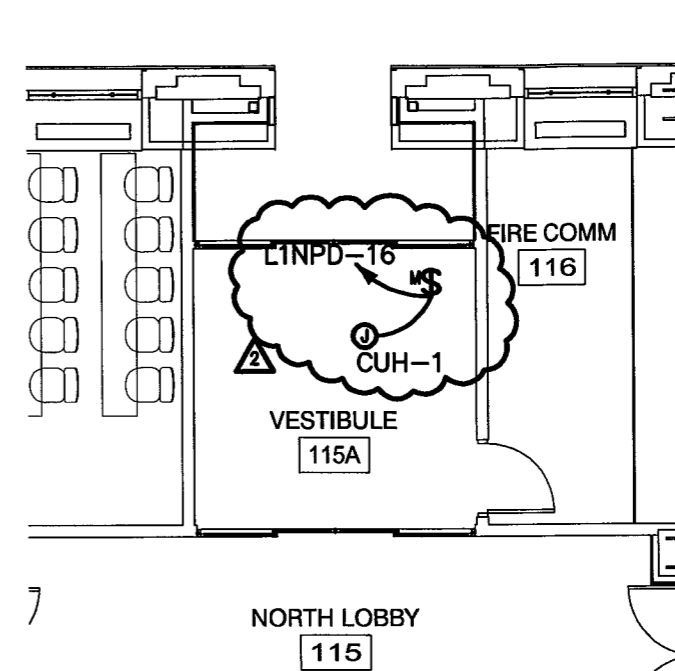
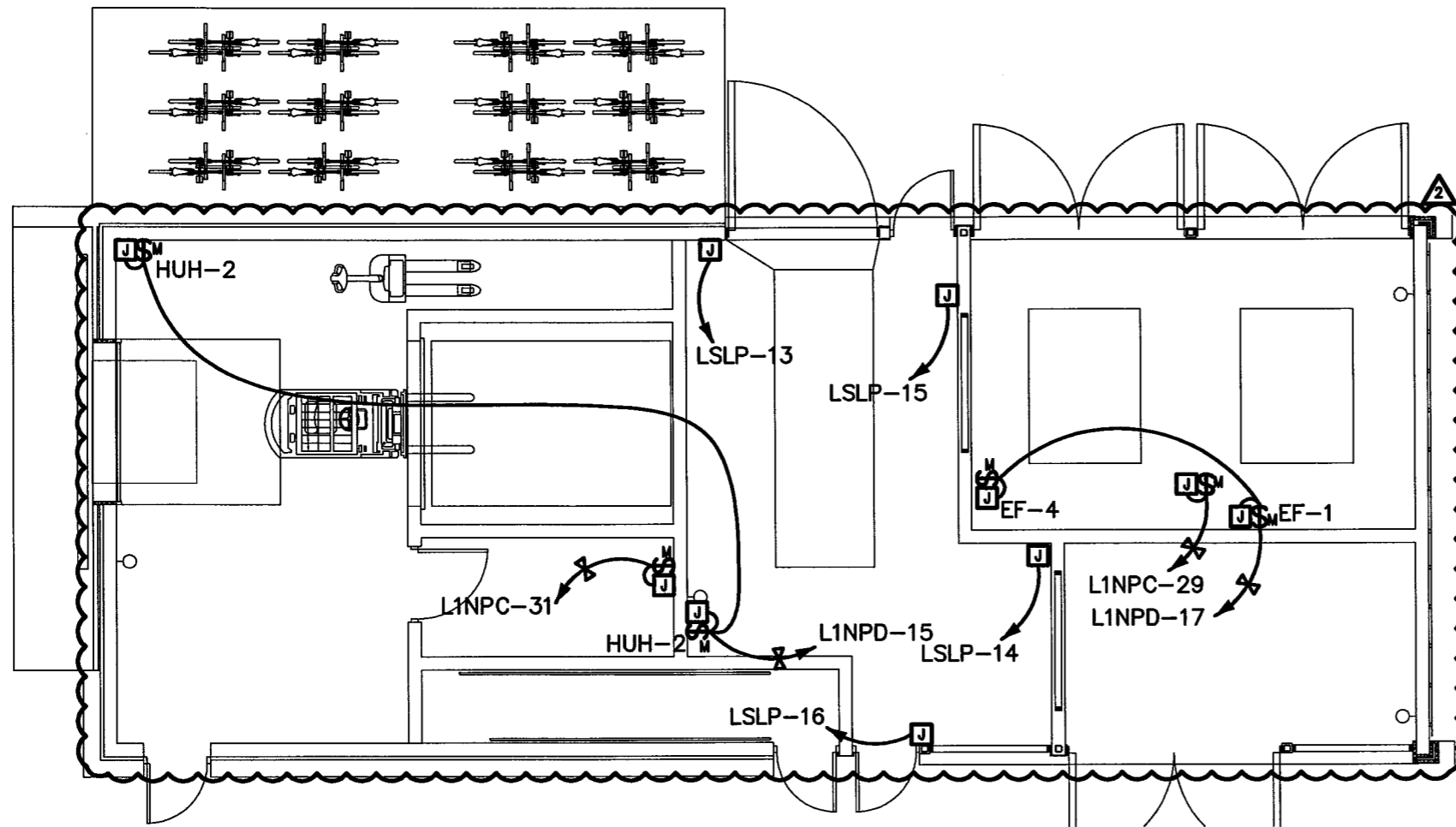
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BASEMENT FLOOR PLAN -  
MECHANICAL POWER



**1** **FIRST FLOOR PLAN - MECHANICAL POWER**  
 EM-101 1/8" = 1'-0"

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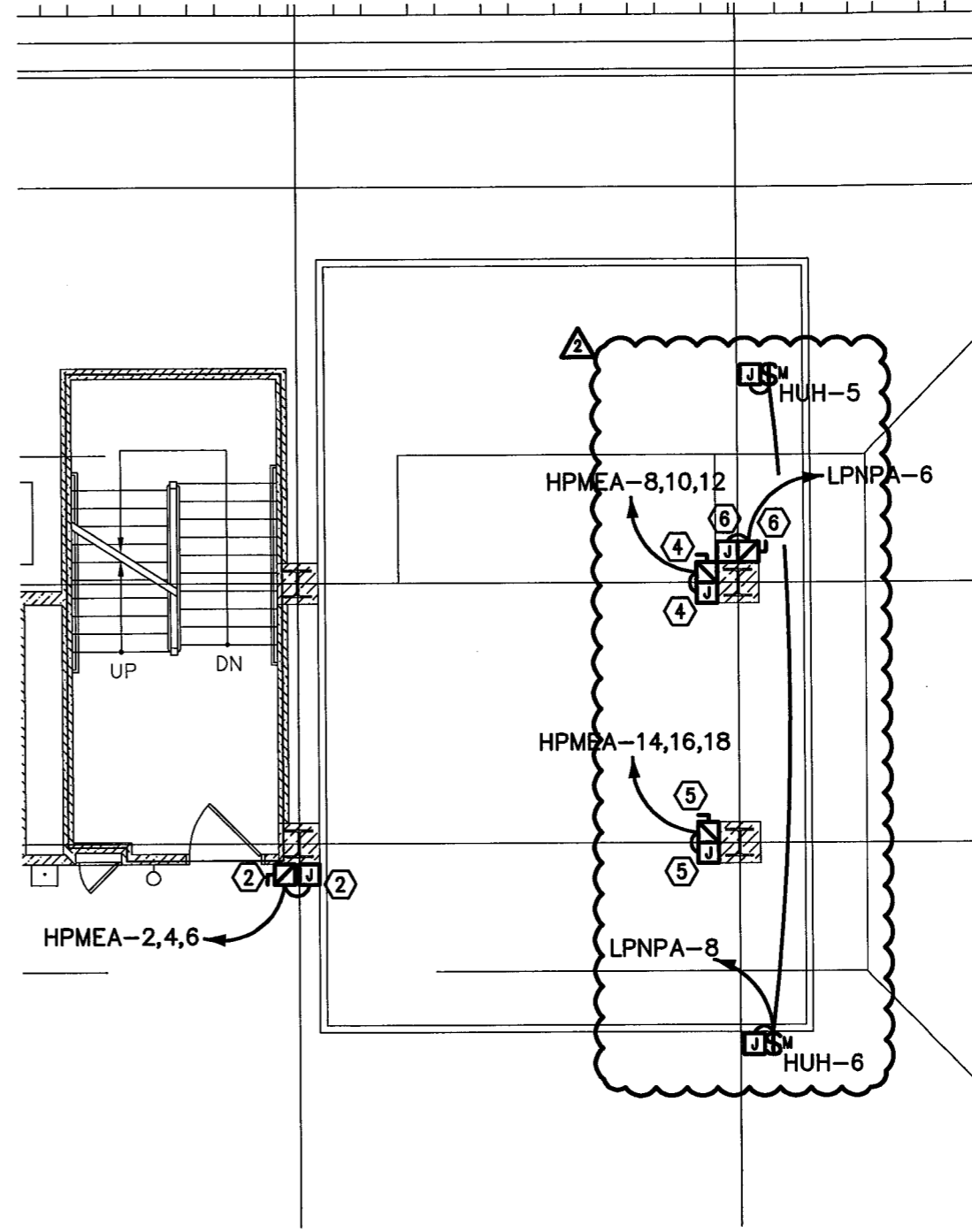
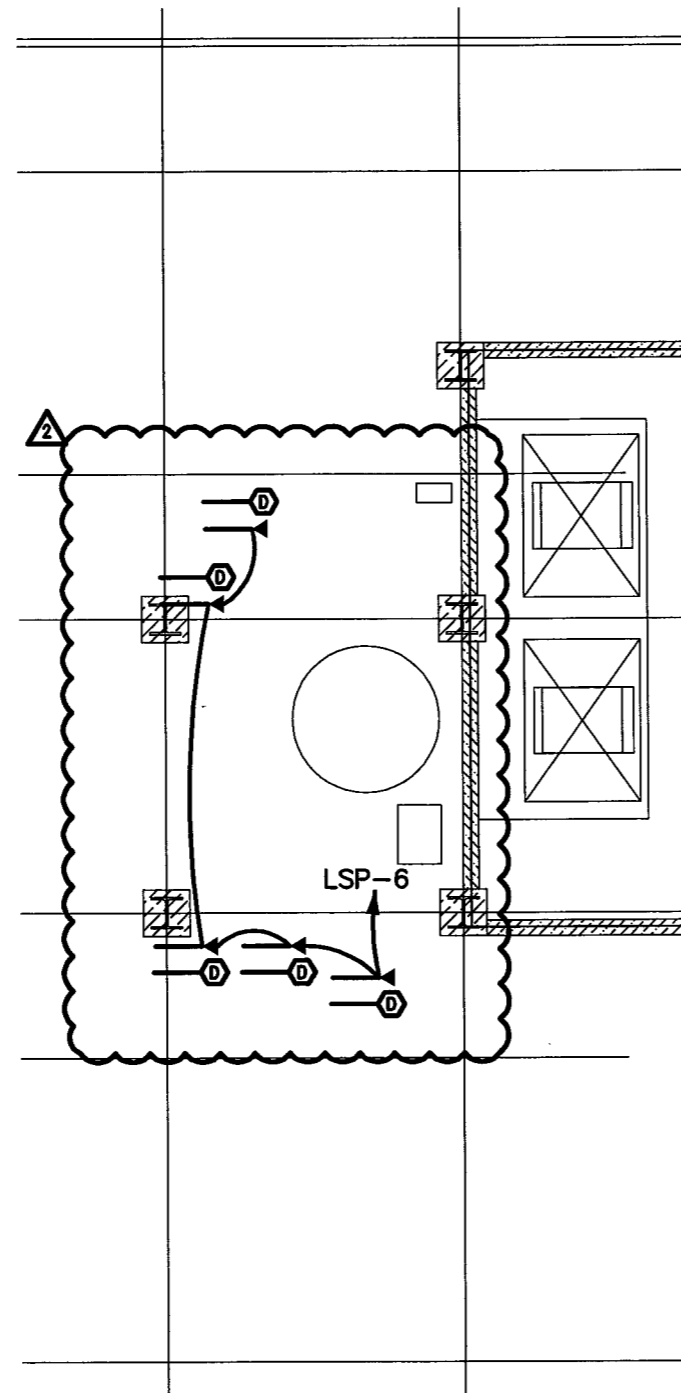
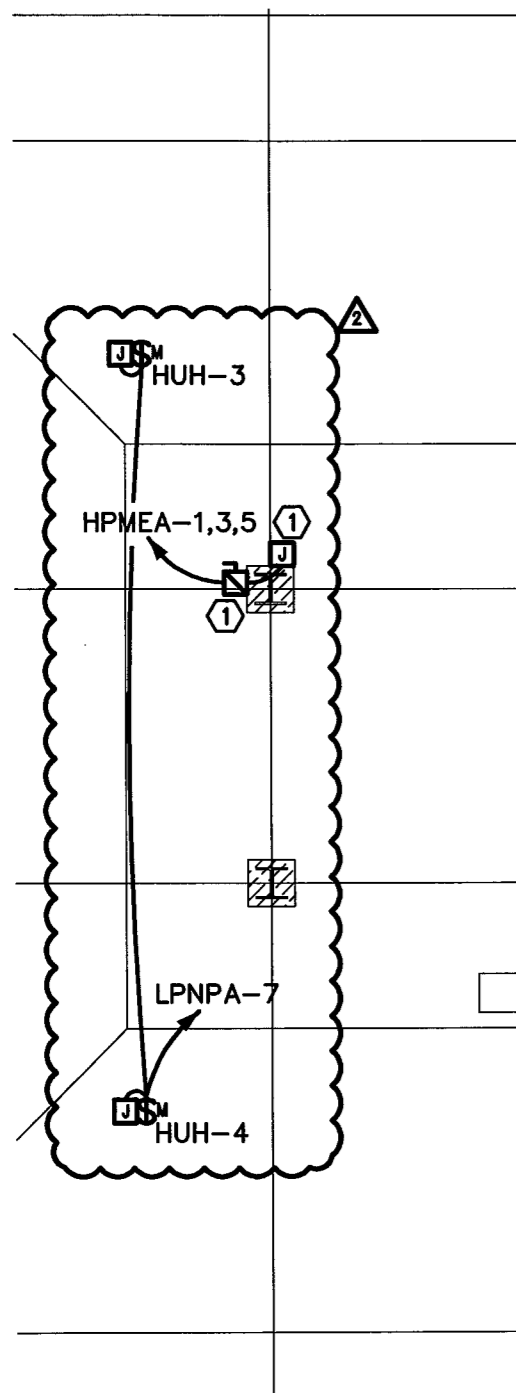
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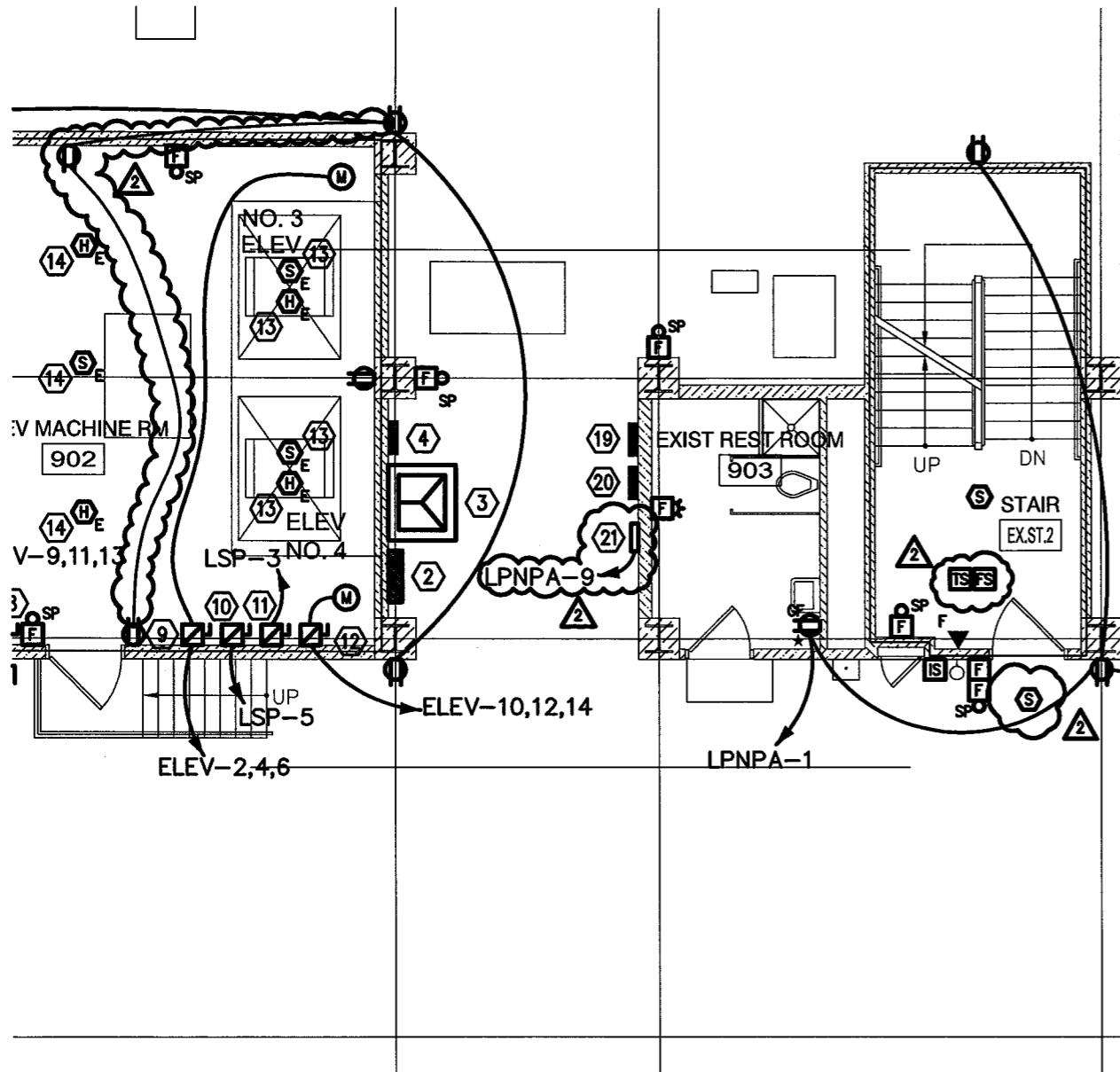
FIRST FLOOR PLAN -  
 MECHANICAL POWER

**SKEM-101**  
 REFERENCE DWG X-XXX



**1** **PENTHOUSE PLAN - MECHANICAL POWER**  
SKEM-109 1/8" = 1'-0"





- ⑮ TRANSFORMER TPEP1
- ⑯ PROVIDE CONNECTION TO CIRCULATING PUMP. COORDINATE THE EXACT LOCATION WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
- ⑰ PROVIDE CONNECTION TO WATER HEATER. COORDINATE THE EXACT LOCATION WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
- ⑱ 480V, 600A FUSIBLE SAFETY SWITCH WITH 500A FUSES.
- ⑲ PANEL LSP.
- ⑳ PANEL HPMEA.
- ㉑ PANEL DP9.



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PENTHOUSE PLAN -  
 POWER & SYSTEMS

**1 PENTHOUSE PLAN - POWER & SYSTEMS**  
 SKEP-109 1/8" = 1'-0"

**SKEP-109a**  
 REFERENCE DWG X-XXX

## PROJECTION SCREEN / DISPLAY TYPE SCHEDULE

ALL DIMENSIONS IN INCHES / WEIGHT IN POUNDS

TYPE	IMAGE SIZE		CASE SIZE			WEIGHT	INSTALLATION	OPERATION	MAKE & MODEL	IMAGE SURFACE MATERIAL	BLACK DROP	CONTROL	DETAIL
	(IH)	(IW)	(CH)	(CW)	(CD)								
◇	50	80	9.75	95	9.125	125	CEILING RECESSED - FLUSH	MOTORIZED	DRAPER ACCESS/SERIES V	M1300 W/BACKING	TBD	LVC-III MOTOR CONTROL BOARD / LVC-S LOW VOLTAGE WALL SWITCH	1/T-502
◇	65	104	9.75	120	9.125	155	CEILING RECESSED - FLUSH	MOTORIZED	DRAPER ACCESS/SERIES V	M1300 W/BACKING	40"	LVC-III MOTOR CONTROL BOARD / LVC-S LOW VOLTAGE WALL SWITCH	1/T-502
◇	87.5	140	9.75	158.5	9.125	208	CEILING RECESSED - FLUSH	MOTORIZED	DRAPER ACCESS/SERIES V	M1300 W/BACKING	VARIABLE - SEE T-700 SERIES FOR HEIGHT	LVC-III MOTOR CONTROL BOARD / LVC-S LOW VOLTAGE WALL SWITCH	1/T-502
◇	46	74	64	77.5	16	66	WALL MOUNTED	FIXED	SMARTTECH 685xi SMARTBOARD	INTERACTIVE WHITEBOARD	NA	NA	6/T-501
◇	29.25	49.5	30.25	50.5	4.75	99	WALL MOUNTED	FIXED	TBD	52" FLAT PANEL DISPLAY	NA	NA	-
◇	39	59	40	60	5.25	125	WALL MOUNTED	FIXED	TBD	65" FLAT PANEL DISPLAY	NA	NA	-

NOTE: TYPE D,E,F ARE NOT IN CONTRACT. INFRASTRUCTURE BY G.C. ELECTRONICS BY AUDIOVISUAL CONTRACTOR.

## PROJECTION / DISPLAY ROOM & MOUNTING STYLE SCHEDULE

ALL DIMENSIONS IN INCHES

ROOM PROJECTION SCREEN / DISPLAY SCHEDULE									
UNITS OF MEASUREMENTS ARE IN INCHES									
ROOM NO.	SCREEN TYPE	SCREEN/DISPLAY QTY	PROJECTOR MOUNT STYLE	DISTANCE [D1]	DISTANCE [D1x]	DISTANCE [D2]	FLAT PANEL TYPE	FLATPANEL MOUNT STYLE	FLAT PANEL QTY
104	◇	1	MS1	204	60	210	-	-	-
106	◇	2	MS1	204	60	210	-	-	-
106	◇	1	MS1	235	42	241	-	-	-
111	◇	2	MS1	204	60	210	-	-	-
111	◇	1	MS1	235	42	241	-	-	-
112	◇	1	MS1	204	60	210	-	-	-
113	-	-	-	-	-	-	◇	FPD1	2
114	◇	1	MS1	204	60	210	-	-	-

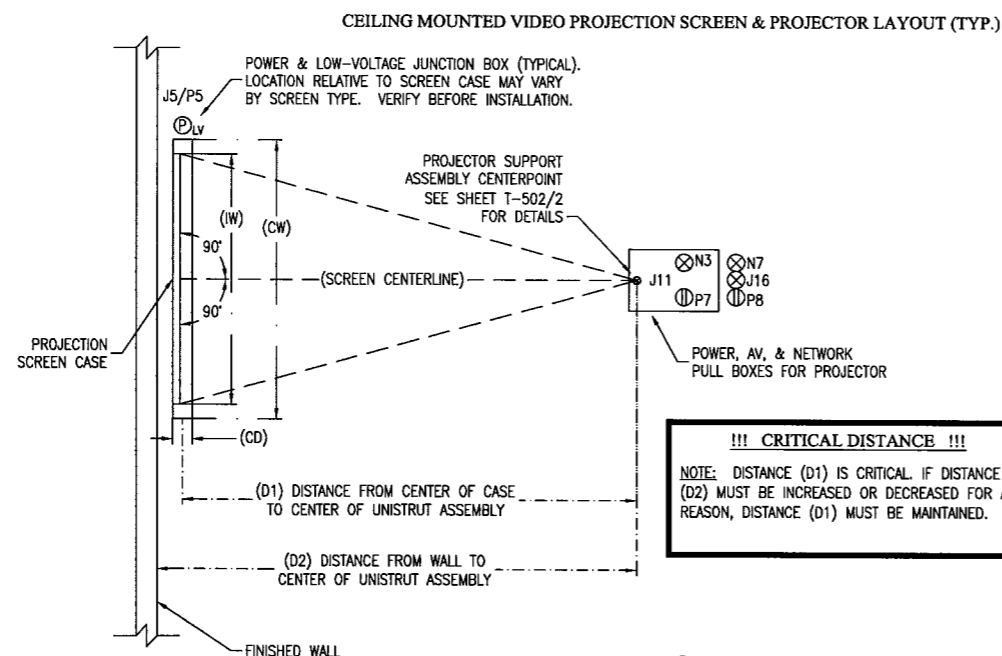
ROOM PROJECTION SCREEN / DISPLAY SCHEDULE									
UNITS OF MEASUREMENTS ARE IN INCHES									
ROOM NO.	SCREEN TYPE	SCREEN/DISPLAY QTY	PROJECTOR MOUNT STYLE	DISTANCE [D1]	DISTANCE [D1x]	DISTANCE [D2]	FLAT PANEL TYPE	FLATPANEL MOUNT STYLE	FLAT PANEL QTY
119	◇	3	MS3	154	0	161	-	-	-
121	◇	1	MS2	N/A	N/A	N/A	-	-	-
121	-	-	-	-	-	-	◇	FPD1	4
123	◇	1	MS2	N/A	N/A	N/A	-	-	-
123	-	-	-	-	-	-	◇	FPD1	3
203L	◇	1	MS1	204	60	210	-	-	-
203L	-	-	-	-	-	-	◇	FPD1	2
205	◇	1	MS1	204	60	210	-	-	-
205	-	-	-	-	-	-	◇	FPD1	2
803F	◇	1	MS1	204	60	210	-	-	-
805D	◇	1	MS1	204	60	210	-	-	-
305	◇	1	MS1	204	60	210	-	-	-

### VIDEO PROJECTOR / FLAT PANEL DISPLAY MOUNTING STYLE DETAILS

FOR TYPE MS1 PROJECTOR CEILING MOUNT SEE: DETAILS 2+3+4/T-502 AND NOTES BELOW  
 FOR TYPE MS2 WALL MOUNTED INTERACTIVE WHITE BOARD SEE: DETAIL 6/T-501 AND ROOM ELEVATIONS  
 FOR TYPE MS3 PROJECTOR CEILING LIFT MOUNT SEE: DETAILS 1/T-503 AND NOTES BELOW  
 FOR TYPE FPD1 WALL MOUNTED FLAT PANEL DISPLAY SEE: DETAIL 4/T-501 AND ROOM ELEVATIONS

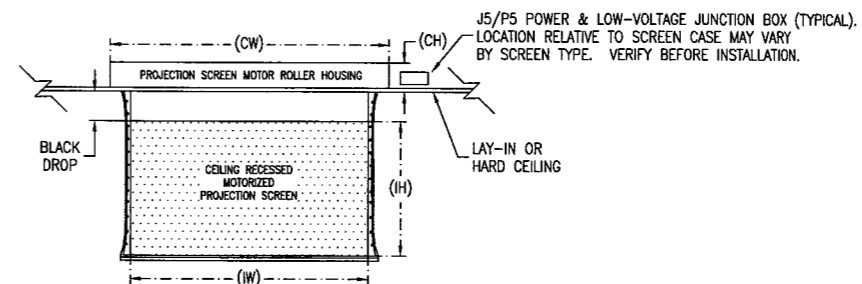
### PROJECTION SCREEN / VIDEO PROJECTOR RELATIONSHIP NOTES:

- [D1]: **!!! CRITICAL DISTANCE !!!** - D1 IS THE DISTANCE FROM THE PROJECTION SCREEN SURFACE TO THE CENTER OF THE PROJECTOR CEILING MOUNT ASSEMBLY.
- [D1x]: IS THE ALLOWABLE +/- VARIANCE IN DISTANCE OF [D1] TO ACCOMMODATE STRUCTURAL OR OTHER OBSTRUCTIONS. EXAMPLE: THE PROJECTOR MOUNT FOR ROOM 104, PROJECTION SCREEN TYPE-B CAN BE LOCATED BETWEEN 144 TO 270, ON SCREEN CENTERLINE FROM THE PROJECTION SCREEN SURFACE. CONTACT THE AUDIOVISUAL CONSULTANT IF CONDITIONS WILL NOT PERMIT THE PROJECTOR MOUNT TO BE LOCATED WITHIN THE SCREEN-TO-MOUNT DISTANCE SPECIFIED BY [D1] AND VARIABLE [D1x].
- [D2]: IS THE ESTIMATED DISTANCE FROM THE PROJECTION WALL TO THE CENTER OF THE PROJECTOR CEILING MOUNT ASSEMBLY.



1 TYPICAL PROJECTION SCREEN, PROJECTOR SUPPORT & INFRASTRUCTURE LAYOUT  
 T-003 SCALE: NTS

**CEILING MOUNTED VIDEO PROJECTION SCREEN (TYP.) (AUDIENCE VIEW)**



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PWWG PROJECT NO. 20703.00  
 PROGRESS SET MARCH 17, 2010  
 PROGRESS SET OCTOBER 01, 2010  
 100% CD SUBMISSION OCTOBER 08, 2010  
 ADDENDUM No. 2 DECEMBER 08, 2010

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**WEST VIRGINIA STATE OFFICE BUILDING NO.3 RENOVATION**

1900 KANAWHA BOULEVARD EAST  
 BUILDING NO. 3, CAPITOL COMPLEX  
 CHARLESTON, WEST VIRGINIA 25305

TECHNOLOGY SCHEDULES AND NOTES

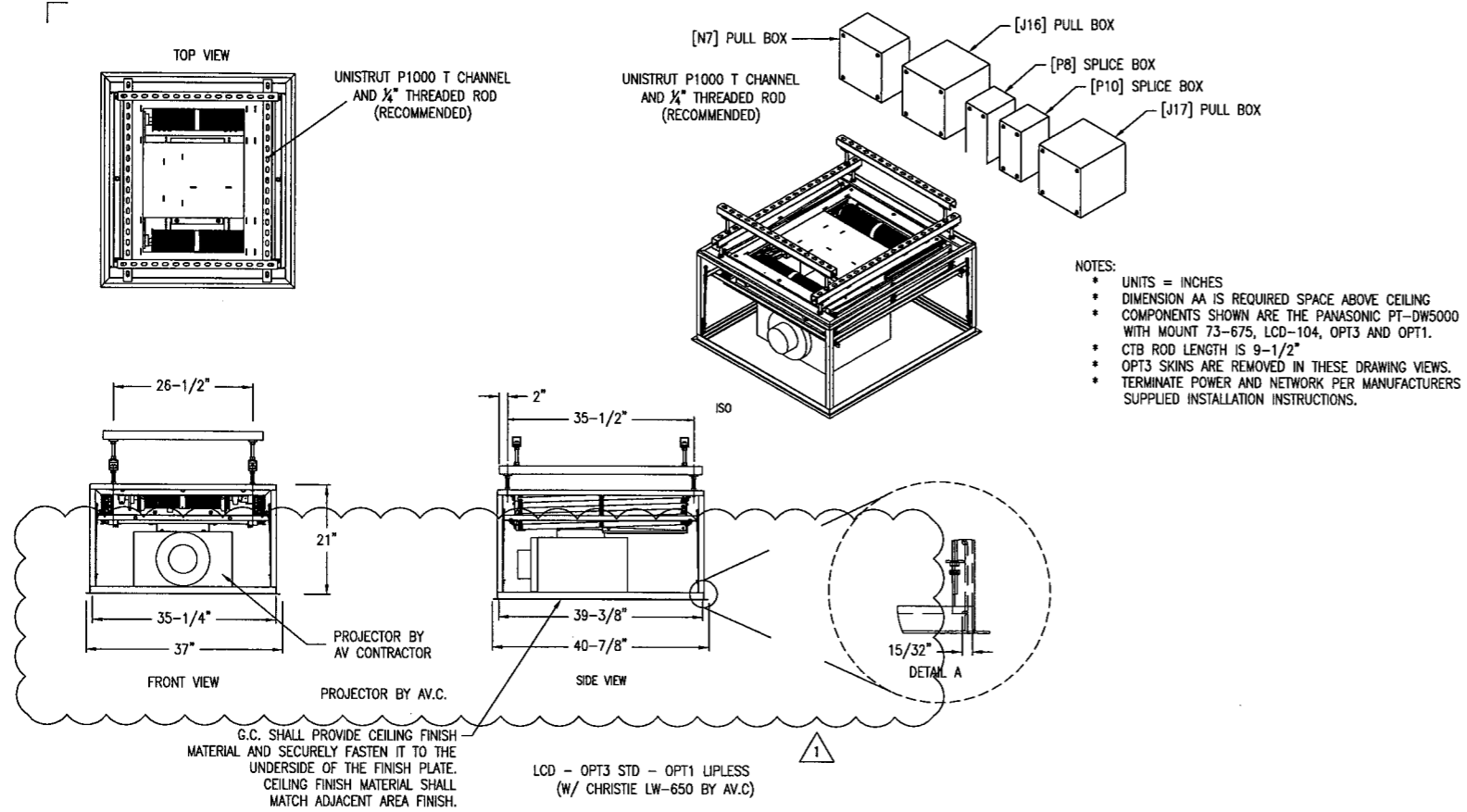
**T-003**





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1 MOTORIZED PROJECTOR LIFT  
 T-503 SCALE: NTS

PWWG PROJECT NO. 20703.00	
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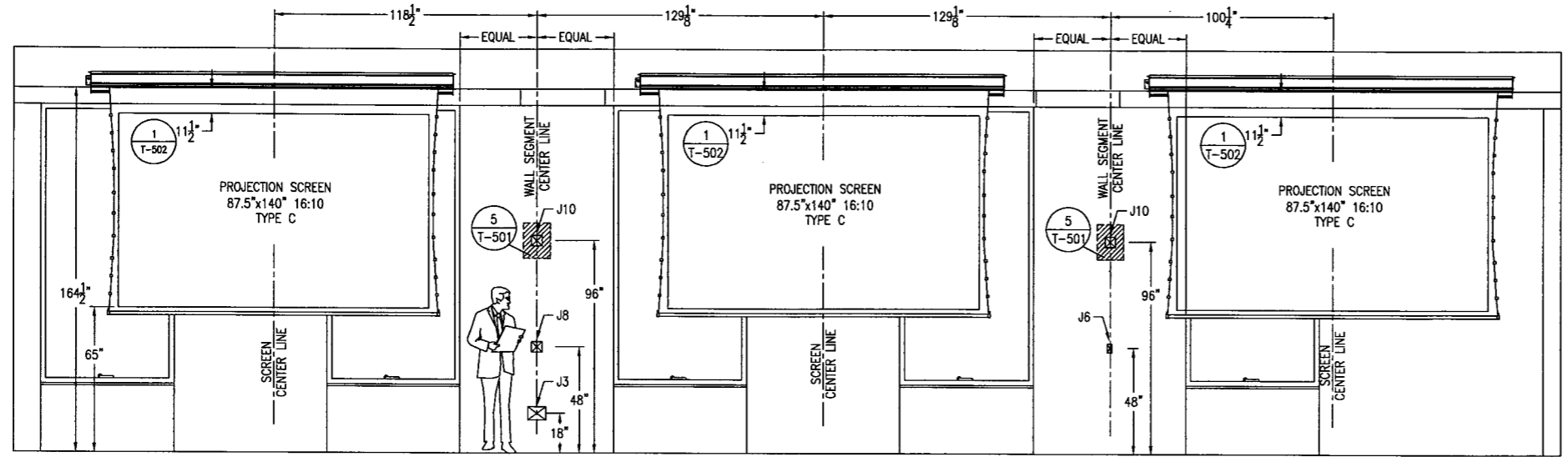
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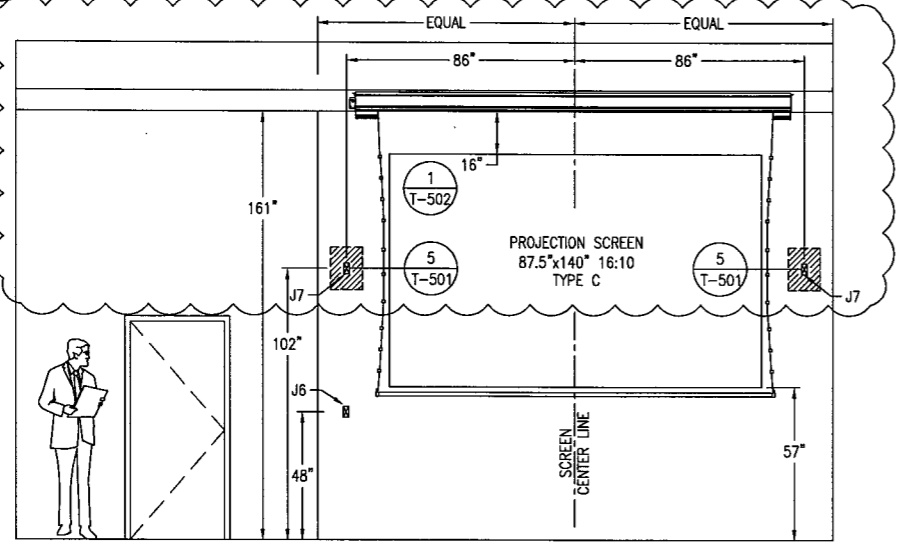
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TECHNOLOGY INFRASTRUCTURE  
 DETAILS

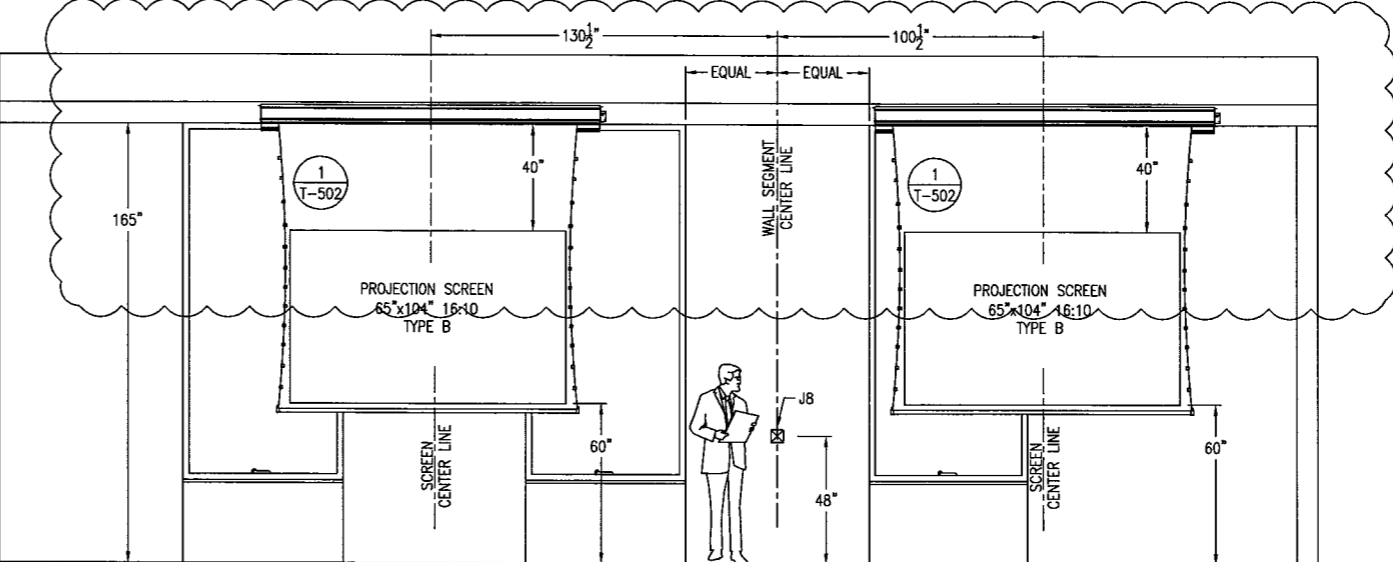
**T-503**



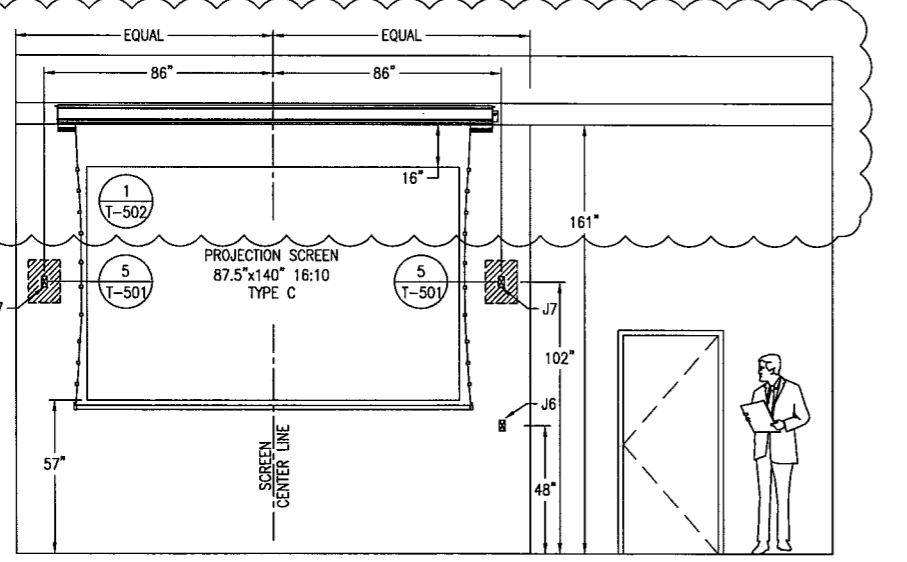
1 LARGE HALL 119 (NORTH)  
T-700 SCALE: 3/8" = 1'-0"



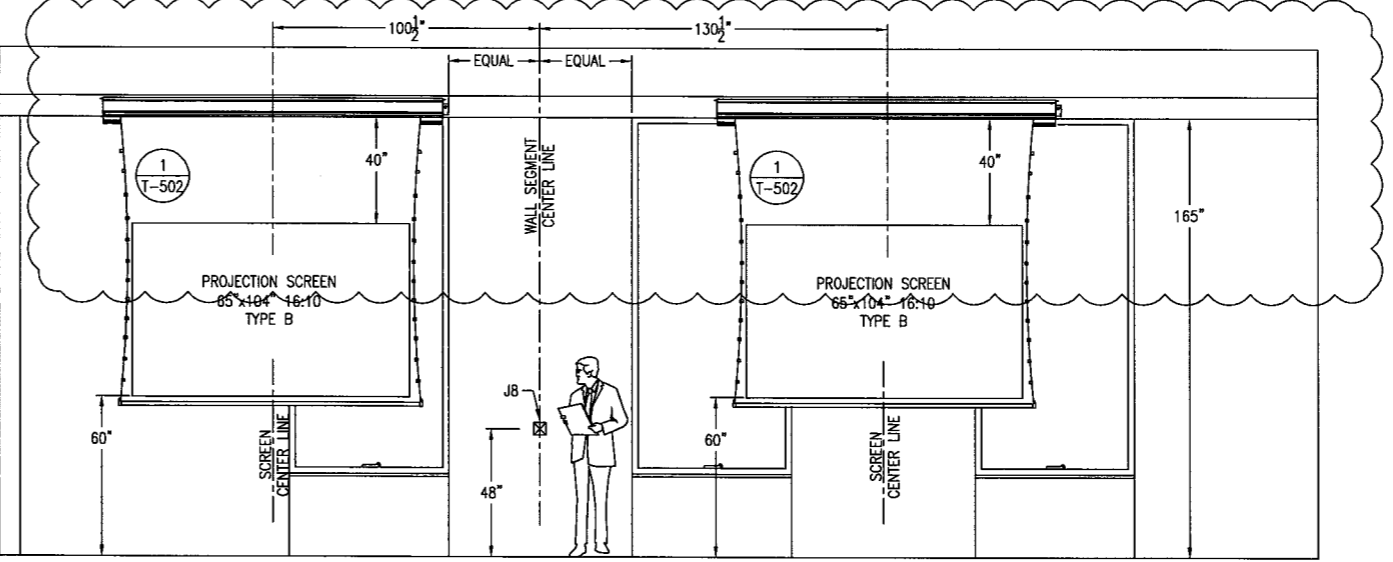
2 MEETING ROOM 111 (SOUTH)  
T-700 SCALE: 3/8" = 1'-0"



3 MEETING ROOM 111 (WEST)  
T-700 SCALE: 3/8" = 1'-0"



4 MEETING ROOM 106 (NORTH)  
T-700 SCALE: 3/8" = 1'-0"



5 MEETING ROOM 106 (WEST)  
T-700 SCALE: 3/8" = 1'-0"

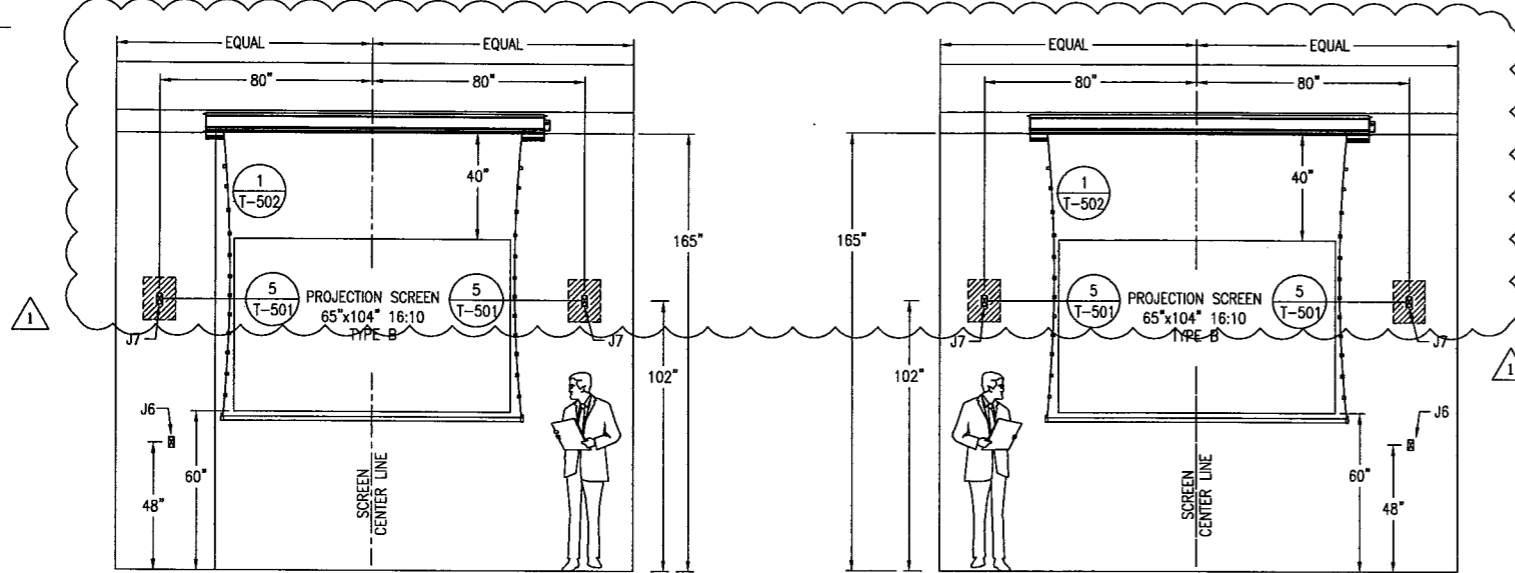
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PROGRESS SET	MARCH 17, 2010
PROGRESS SET	OCTOBER 01, 2010
100% CD SUBMISSION	OCTOBER 08, 2010
ADDENDUM NO. 2	DECEMBER 08, 2010

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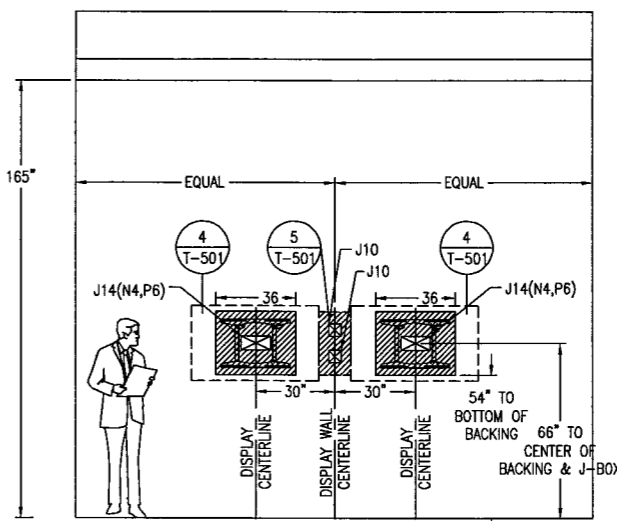
AUDIOVISUAL  
ROOM ELEVATIONS

T-700

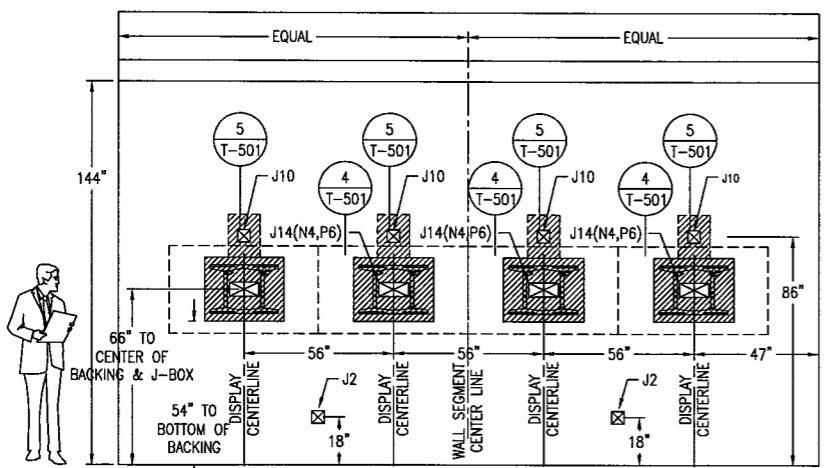


1 MEETING ROOM 104 & 112 (EAST)  
T-701 SCALE: 3/8" = 1'-0"

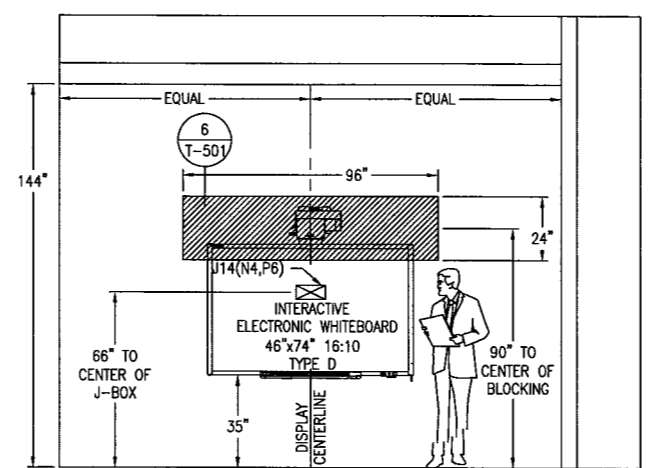
2 MEETING ROOM 114 (WEST)  
T-701 SCALE: 3/8" = 1'-0"



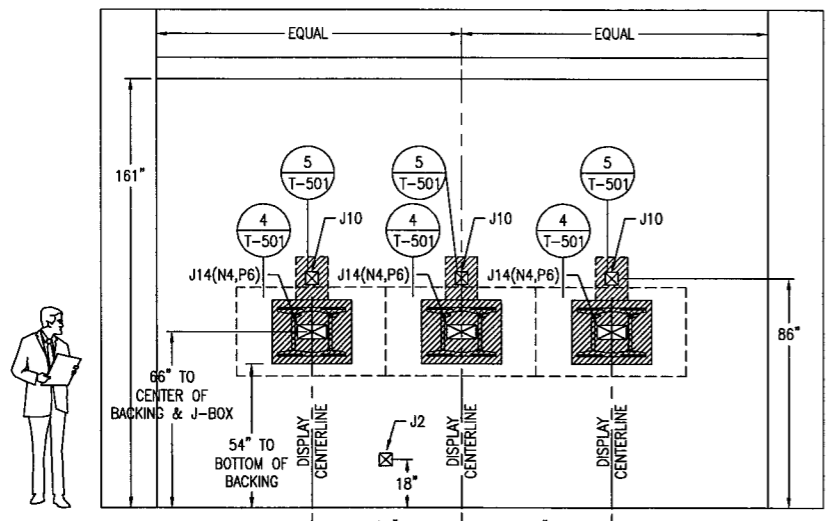
3 MEETING ROOM 113 (WEST)  
T-701 SCALE: 3/8" = 1'-0"



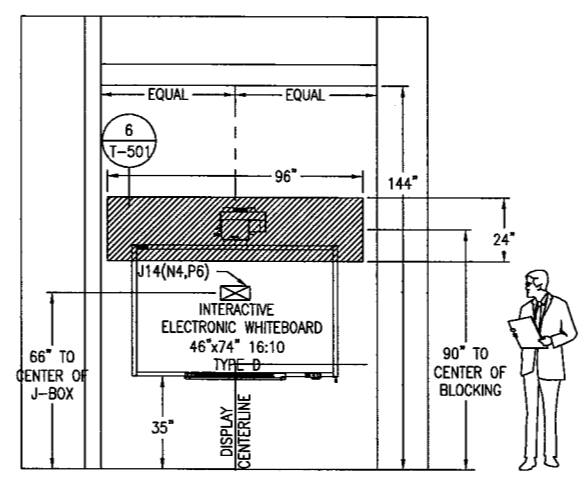
4 CONFERRING ROOM 121 (WEST)  
T-701 SCALE: 3/8" = 1'-0"



5 CONFERRING ROOM 121 (SOUTH)  
T-701 SCALE: 3/8" = 1'-0"



6 CONFERRING ROOM 123 (NORTH)  
T-701 SCALE: 3/8" = 1'-0"



7 CONFERRING ROOM 123 (WEST)  
T-701 SCALE: 3/8" = 1'-0"

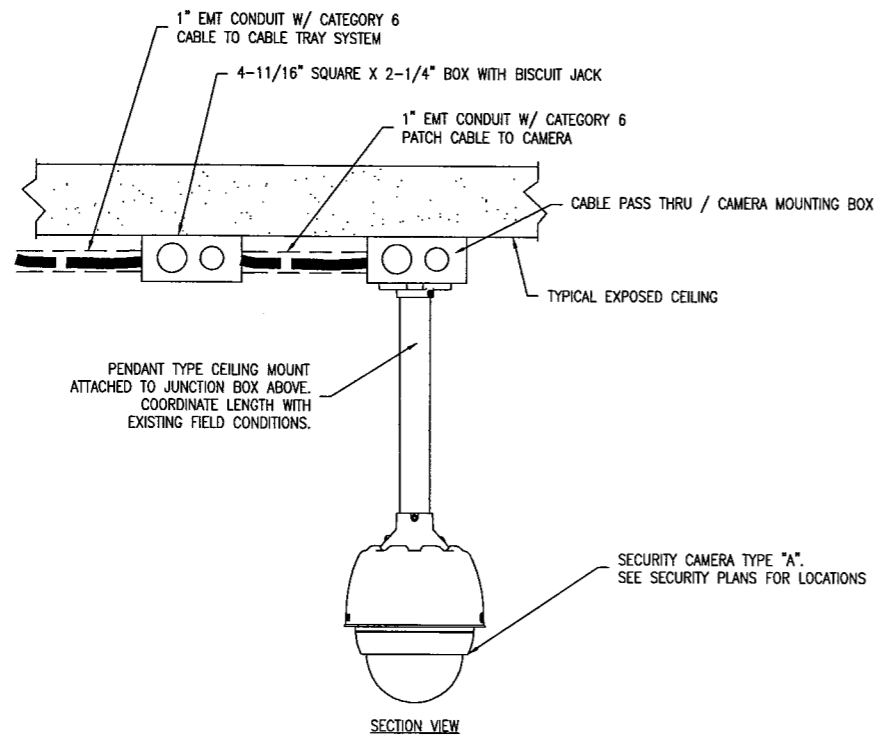
PWWG PROJECT NO. 20703.00	
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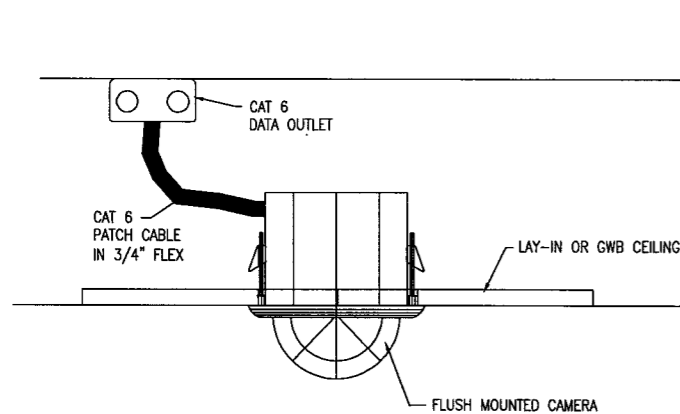
AUDIOVISUAL  
ROOM ELEVATIONS



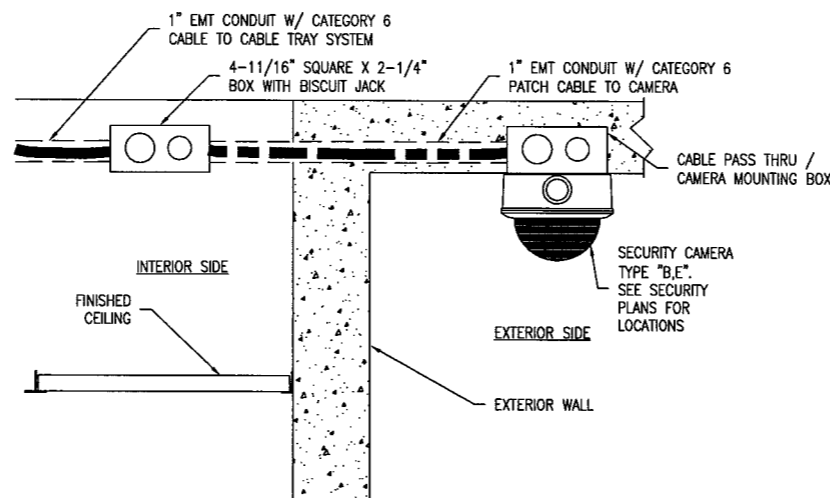
1 PENDANT MOUNTED SECURITY CAMERA  
T-819 SCALE: NTS

CAMERA #	CAMERA TYPE	REFERENCE DATA DRAWING #	FIXED POSITION	PAN/TILT/ZOOM	WALL SURFACE MOUNTED	WALL PENDANT MOUNTED	CEILING SURFACE MOUNTED	CEILING FLUSH MOUNTED	CEILING PENDANT MOUNTED	OUTDOOR WALL MOUNTED	OUTDOOR CEILING MOUNTED	360° LENS	FUTURE CAMERA	PLAN SHEET #	NO. E.L.
C0.01	A	3/-E19	X					X						T-803	
C0.02	A	3/-E19	X											T-803	
C0.03	A	3/-E19	X											I-803	
C0.04	A	3/-E19	X											I-803	
C0.05	A	3/-E19	X											T-803	
C0.06	D	1/-E19	X						X			X		T-803	
C0.07	A	3/-E19	X											I-803	
C1.01	A	3/-E19	X											T-804	VISION - CEILING - FLAT IR - A
C1.02	A	3/-E19	X											T-804	VISION - CEILING - FLAT IR - A
C1.03	A	3/-E19	X											T-804	VISION - CEILING - FLAT IR - A
C1.04	A	3/-E19	X											I-804	VISION - CEILING - FLAT IR - A
C1.05	A	1/-E19	X						X					I-804	
C1.06	A	1/-E19	X											I-804	
C1.07	A	3/-E19	X											T-804	
C1.08	A	3/-E19	X											T-804	
C1.09	A	3/-E19	X											I-804	
C1.10	A	3/-E19	X											I-804	
C1.11	A	3/-E19	X											I-804	
C1.12	B	4/-E19	X								X			I-804	
C1.13	F	4/-E19	X								X			T-804	
C1.14	F	7/-E19	X								X			T-804	
C1.15	C	3/-E19	X							X				T-804	
C1.16	F	7/-E19	X								X			T-804	
C1.17	C	3/-E19	X							X				T-804	
C1.18	C	3/-E19	X							X				I-804	
C2.01	F	1/-E19	X						X			X		T-805	
C2.02	A	1/-E19	X						X					T-805	
C2.03	A	1/-E19	X						X					T-805	
C3.01	F	1/-E19	X						X			X		I-805	
C3.02	A	1/-E19	X						X					I-805	
C3.03	A	1/-E19	X						X					T-805	
C4.01	F	1/-E19	X						X			X		T-806	
C4.02	A	1/-E19	X						X					I-806	
C4.03	A	1/-E19	X						X					I-806	
C5.01	F	1/-E19	X						X			X		T-806	
C5.02	A	1/-E19	X						X					T-806	
C5.03	A	1/-E19	X						X					T-806	
C5.04	A	3/-E19	X						X					I-806	
C5.05	A	3/-E19	X						X					I-806	
C6.01	F	1/-E19	X						X			X		T-807	
C7.01	A	1/-E19	X						X					T-807	
C7.02	A	1/-E19	X						X					T-807	
C8.01	F	1/-E19	X						X			X		I-808	
C8.02	A	1/-E19	X						X					I-808	
C8.03	A	1/-E19	X						X					T-808	

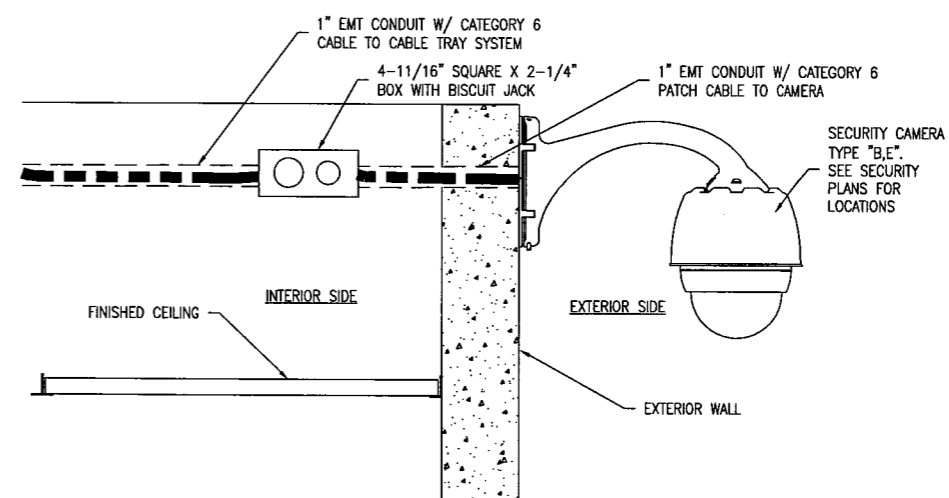
2 SECURITY CAMERA MATRIX  
T-819 SCALE: NTS



3 CEILING MOUNTED SECURITY CAMERA  
T-819 SCALE: NTS



4 OUTDOOR CEILING MOUNTED SECURITY CAMERA  
T-819 SCALE: NTS



5 OUTDOOR WALL MOUNTED SECURITY CAMERA  
T-819 SCALE: NTS



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SECURITY SYSTEMS  
SECURITY CAMERA DETAILS  
AND MATRIX  
T-819