

# ARKANSAS STATE UNIVERSITY

## I. T. Store Genius Center Phase 2

Revisions:

ARKANSAS STATE UNIVERSITY  
I.T. STORE, GENIUS CENTER PHASE 2

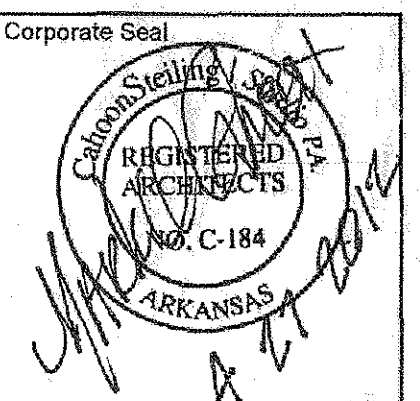
2405 Aggie Way, Jonesboro, Arkansas

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915 Southwest Drive  
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Sheet Name: COVER SHEET	
Project No: 1210	Date: 04/27/12
Sheet No: <b>C001</b>	

# ARKANSAS FIRE PREVENTION DATA

APPLICABLE CODES - Jonesboro, Arkansas  
 2007 AFPC Volume I: Arkansas Fire Prevention Codes: Fire Codes  
 2007 AFPC Volume II: Arkansas Fire Prevention Codes: Building Codes  
 2007 AFPC Volume III: Arkansas Fire Prevention Codes: Residential Codes  
 2006 APC: Arkansas Plumbing Codes  
 2010 AMC: Arkansas Mechanical Codes  
 2011 NEC: National Electrical Codes  
 2006 NFAC: Arkansas Fuel and Gas Codes  
 2004 IECC: International Energy Conservation Codes  
 2006 IBC: International Existing Building Codes  
 2003 ICC/ANSI A117.1: American National Standards(ADA requirements)

Remodel Existing Tenant Lease Space	Code Reference
OCCUPANCY CLASSIFICATION	M (Retail sales - electronic) accessory to B (Education above the 12th grade) Section 304
MIN. OCCUPANCY LOAD	79 T 1004.1.1
TYPE OF CONSTRUCTION	TYPE II B; Interior remodel of existing space 602.2 T 601
ALLOWABLE HEIGHT AND BUILDING AREA PER FLOOR	ALLOWABLE PROPOSED
Maximum height:	50 FEET 14 FEET
Maximum # stories:	4 STORY 1 STORY
MAXIMUM BUILDING AREA: (within surrounding exterior walls and firewalls)	Business B Allowed Per Floor: 23,000 s.f. 7503
PROPOSED FLOOR AREAS	Renovated Building Area (inside exterior walls) 2,340 s.f.
HORIZONTAL SEPARATION	Building face and separation distance 7.602
Distance from exterior wall to assumed or common property lines	North >30' South >30' West >30' East >30'
DESCRIPTION:	Existing ground floor interior space to be remodeled with steel studs and 5/8" gypsum wallboard, new acoustical suspended ceilings. New light fixtures to be installed. New HVAC ductwork to be installed and connected to existing coils. Existing construction of concrete and concrete masonry units with plaster coating. Existing space has 2 existing ground level exits.

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 E101 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL  
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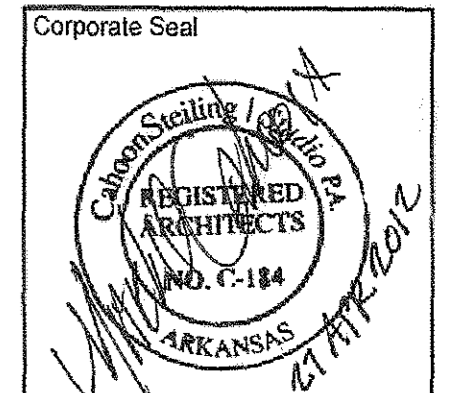
## Architect's Certification Statement

"I hereby certify that these plans and specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire Prevention Code for the State of Arkansas."

*L. J. Cahoon* 07 Apr 2012

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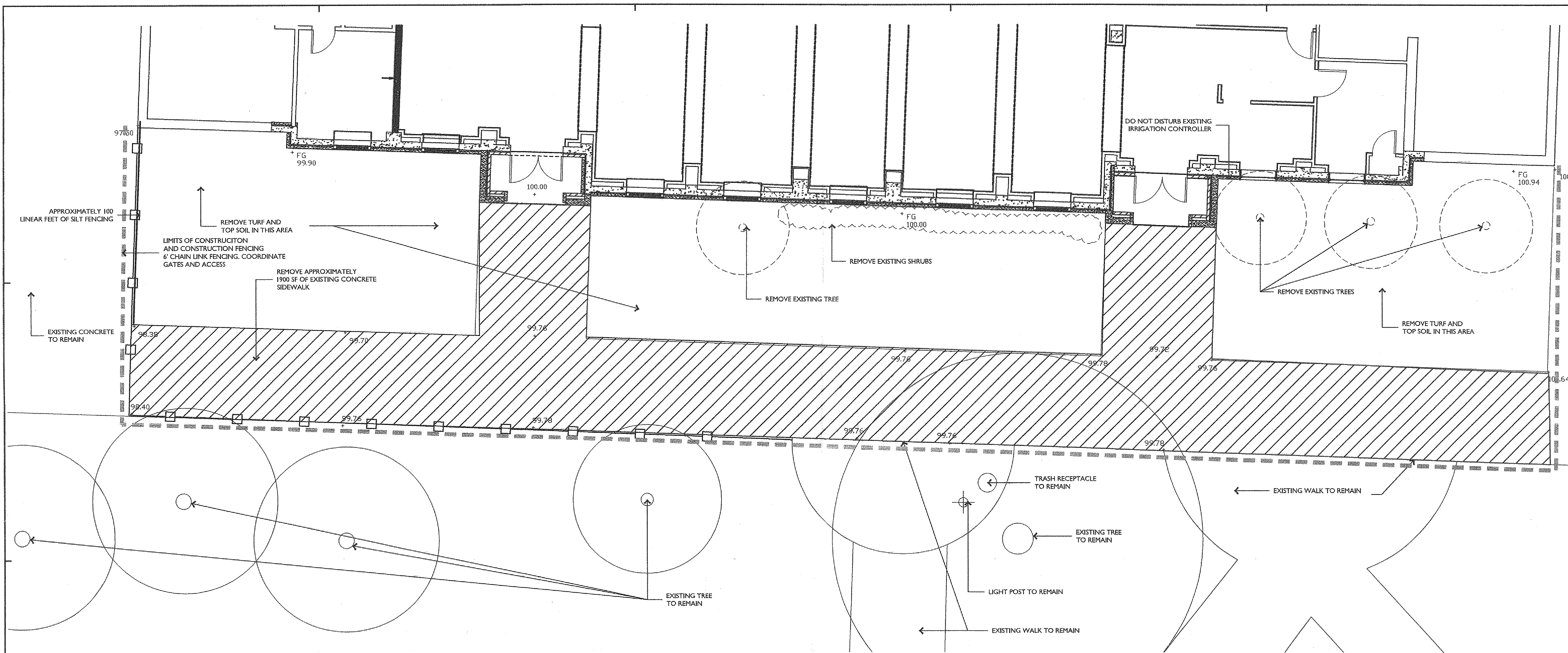
**Cahoon Steeling Studio**  
 Architects



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SHEET INDEX, CODE DATA

Project No: 1210 Date: 04/27/12

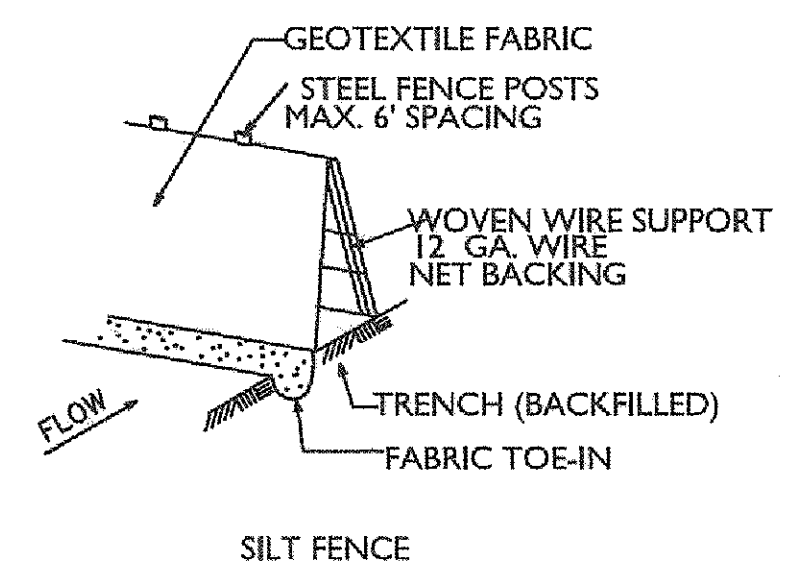
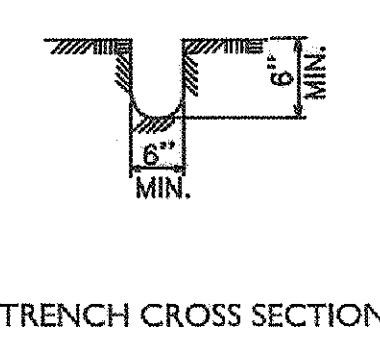
Sheet No:  
**C002**



**1 DEMOLITION AND EROSION CONTROL PLAN**  
SCALE: 3/16"=1'-0"

**GENERAL SILT FENCE NOTES:**

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
4. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.
6. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



**GENERAL EROSION CONTROL NOTES:**

1. THE CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PLAN TO PREVENT MUD, SEDIMENT, AND CONSTRUCTION MATERIALS FROM BEING WASHED OR TRACKED OFF SITE ONTO ADJACENT PROPERTY. CONTRACTOR TO APPLY FOR AND RECEIVE A PERMIT FROM ADEQ FOR AN APPROVED STORM WATER POLLUTION PREVENTION PLAN. CALL KIM FULLER AT 501-682-0621.
2. EROSION CONTROL DEVICES SHALL BE INSTALLED AS THE PROJECT PROGRESSES AND AREAS ARE DISTURBED.
3. THIS EROSION CONTROL PLAN MAY BE REVISED BY ADDING OR DELETING EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
4. THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
5. ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
6. INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND FLOWING RAINFALL EVENTS OF 0.5 INCHES.
7. THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED.
8. ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHED.
9. REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.

**GENERAL NOTES:**

1. A TOPOGRAPHIC SURVEY WAS NOT PROVIDED. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES ARE NOT INDICATED. BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF THESE & ALL OTHER SUBSURFACE AND/OR LATENT FACILITIES PRIOR TO BEGINNING WORK. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE & THE COST OF SUCH REPAIRS NECESSARY SHALL BE BORNE BY THE CONTRACTOR. AS BUILT DOCUMENTS WILL BE MADE AVAILABLE REGARDING PAST CONSTRUCTION AND IS CONTRACTORS RESPONSIBILITY TO REVIEW, BUT SHALL NOT RELY ON THIS INFORMATION TO BE ACCURATE.
2. ALL STREETS, WALKS, DRIVES, DRAINAGE STRUCTURES, FENCES, UTILITIES, ECT. THAT ARE DISTURBED DURING CONSTRUCTION EITHER INSIDE OR OUTSIDE THE PROPERTY LINE OR DESIGNATED WORK LIMITS SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY THE ARKANSAS ONE-CALL CENTER AT 1-800-482-8998, AT LEAST 48 HOURS PRIOR TO DIGGING. ALSO, WHERE APPLICABLE, CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES & ARRANGE FOR LOCATING THE UTILITIES ON THE GROUND.

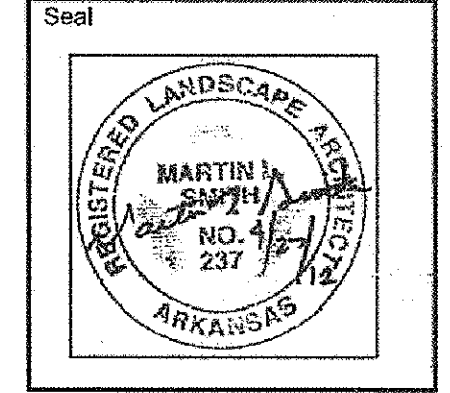
**2 SILT FENCING DETAILS AND NOTES**  
SECTION



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Project No: 1210  
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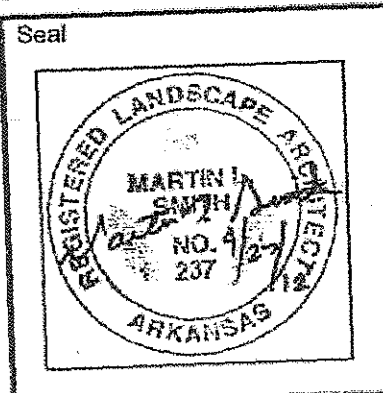
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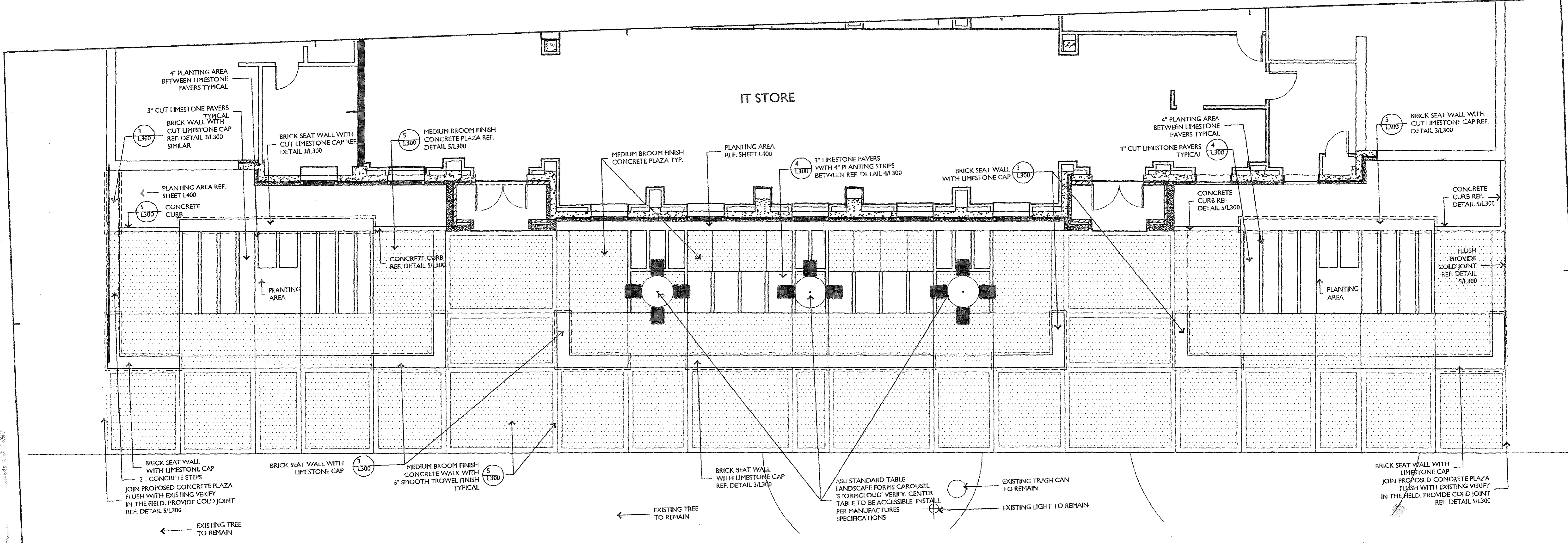
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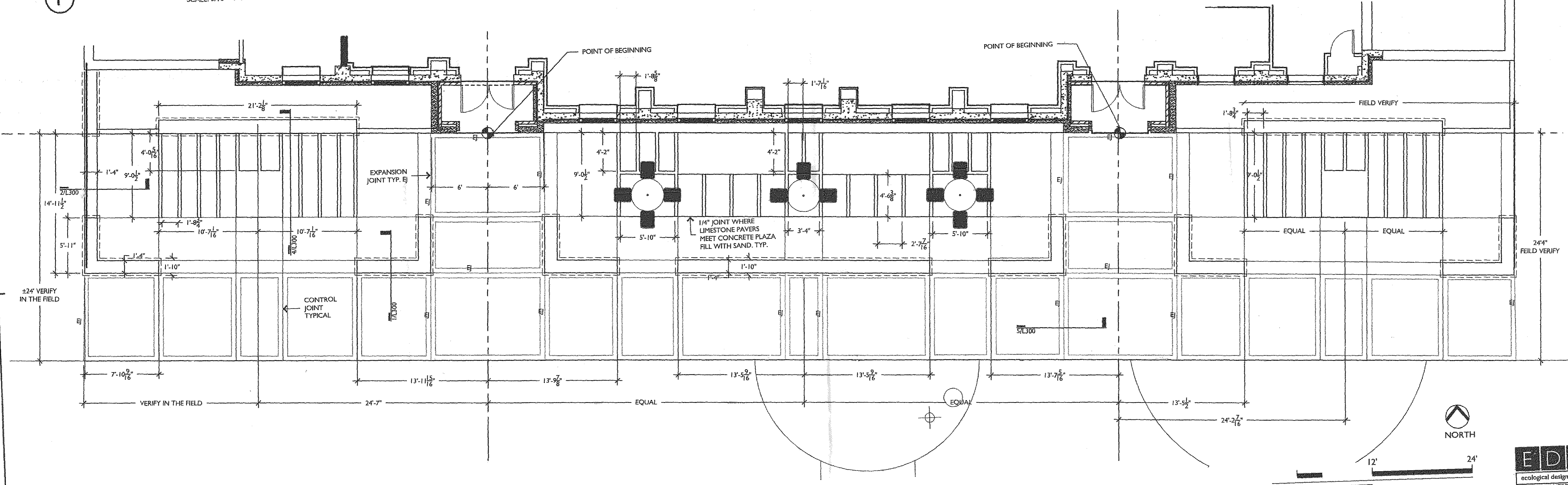
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Project No: 1210 Date: 04/27/12  
Sheet No:

EDG ecological design group  
210 EAST HERRINGMAN WYNNE, ARKANSAS 870-588-6426

L200



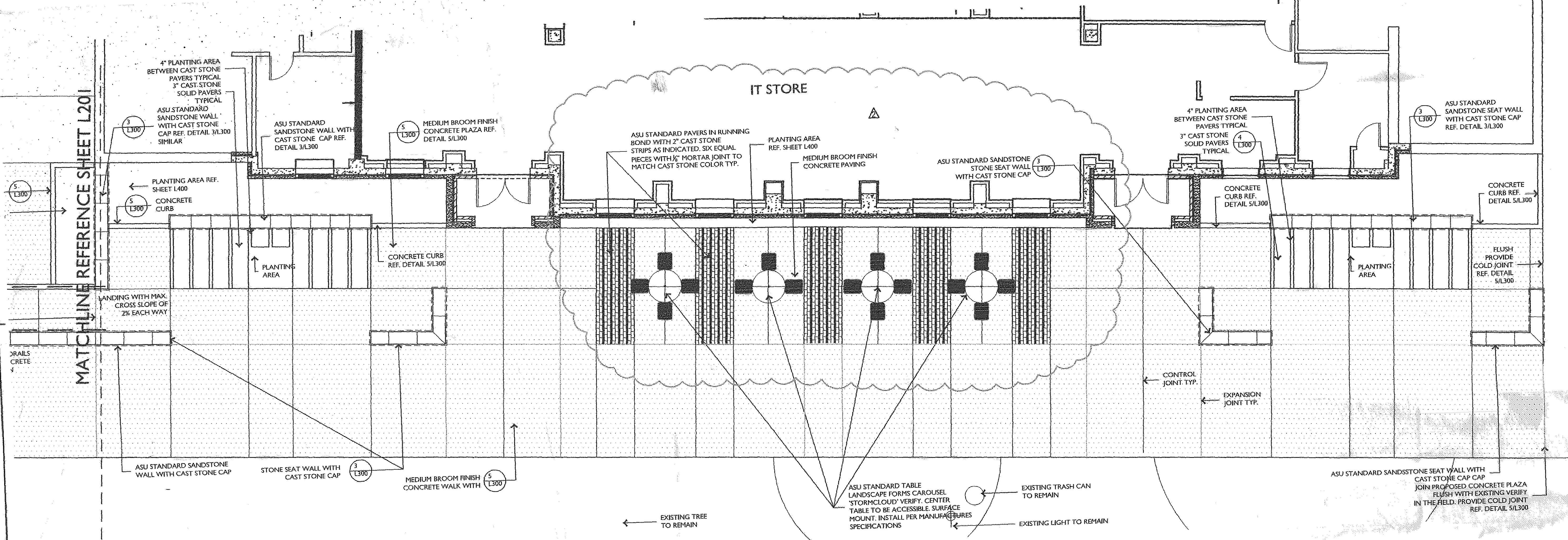
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SCALE: 3/16"=1'-0"



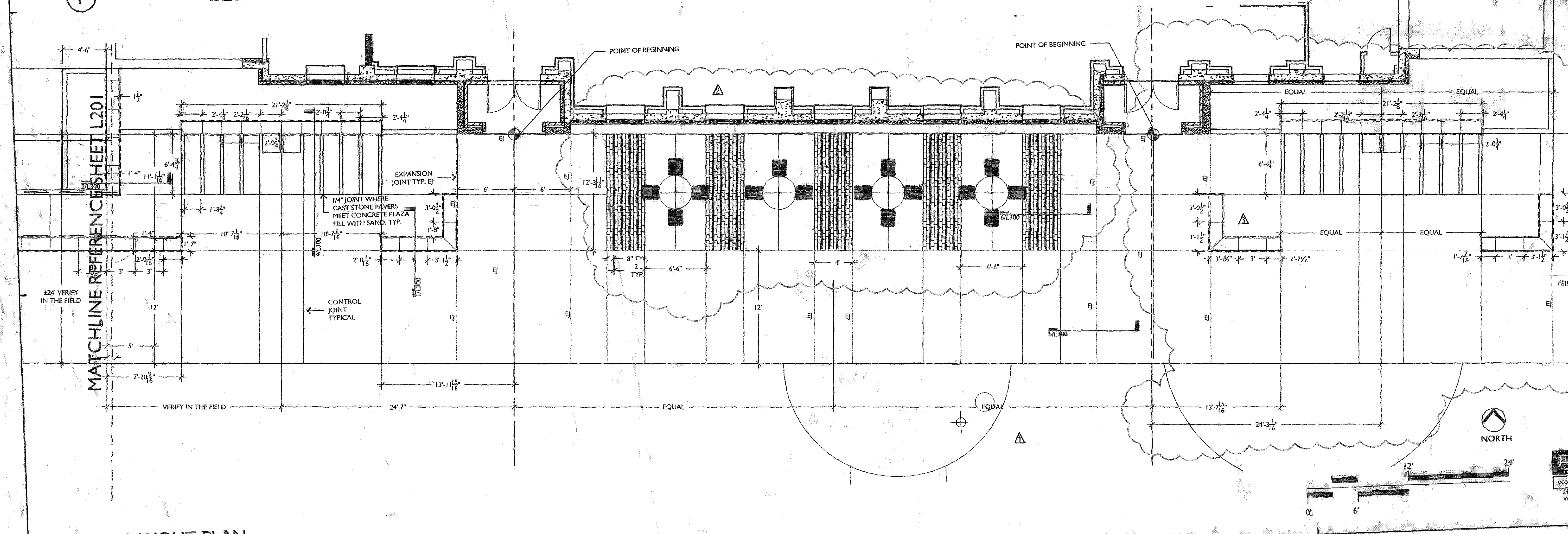
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Revisions:  
 JUNE 18, 2012  
 JUNE 20, 2012  
 JUNE 27, 2012  
 JULY 3, 2012

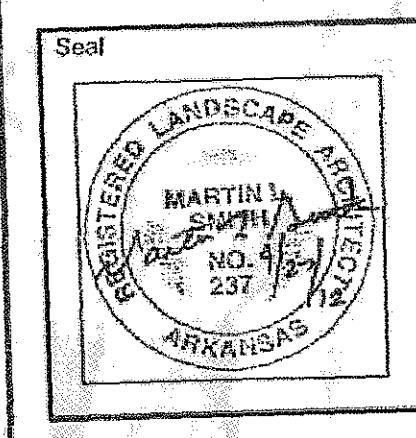
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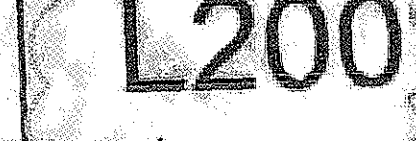
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 SCALE: 3/16" = 1'-0"



**2 SITE LAYOUT PLAN**  
 SCALE: 3/16" = 1'-0"

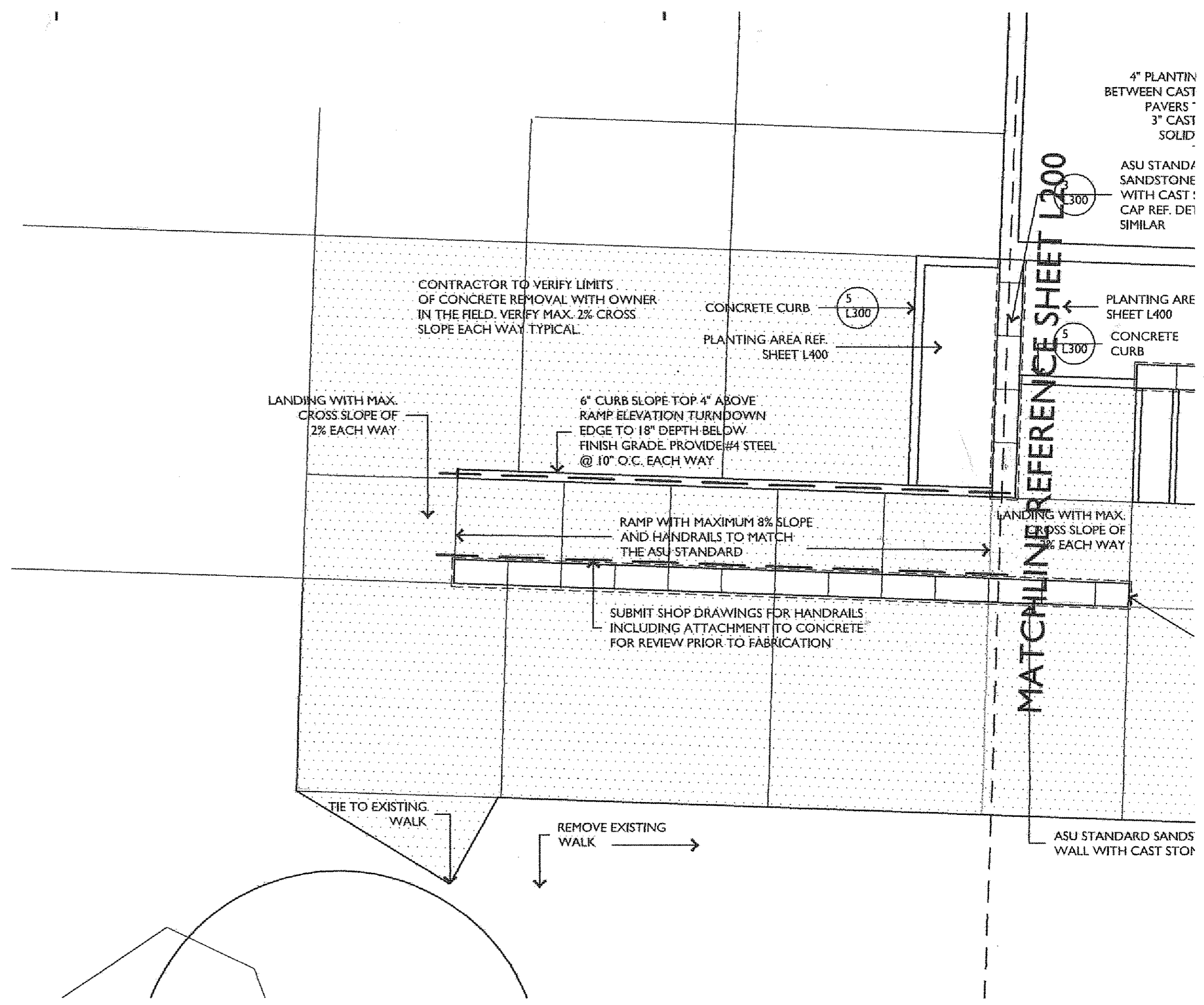


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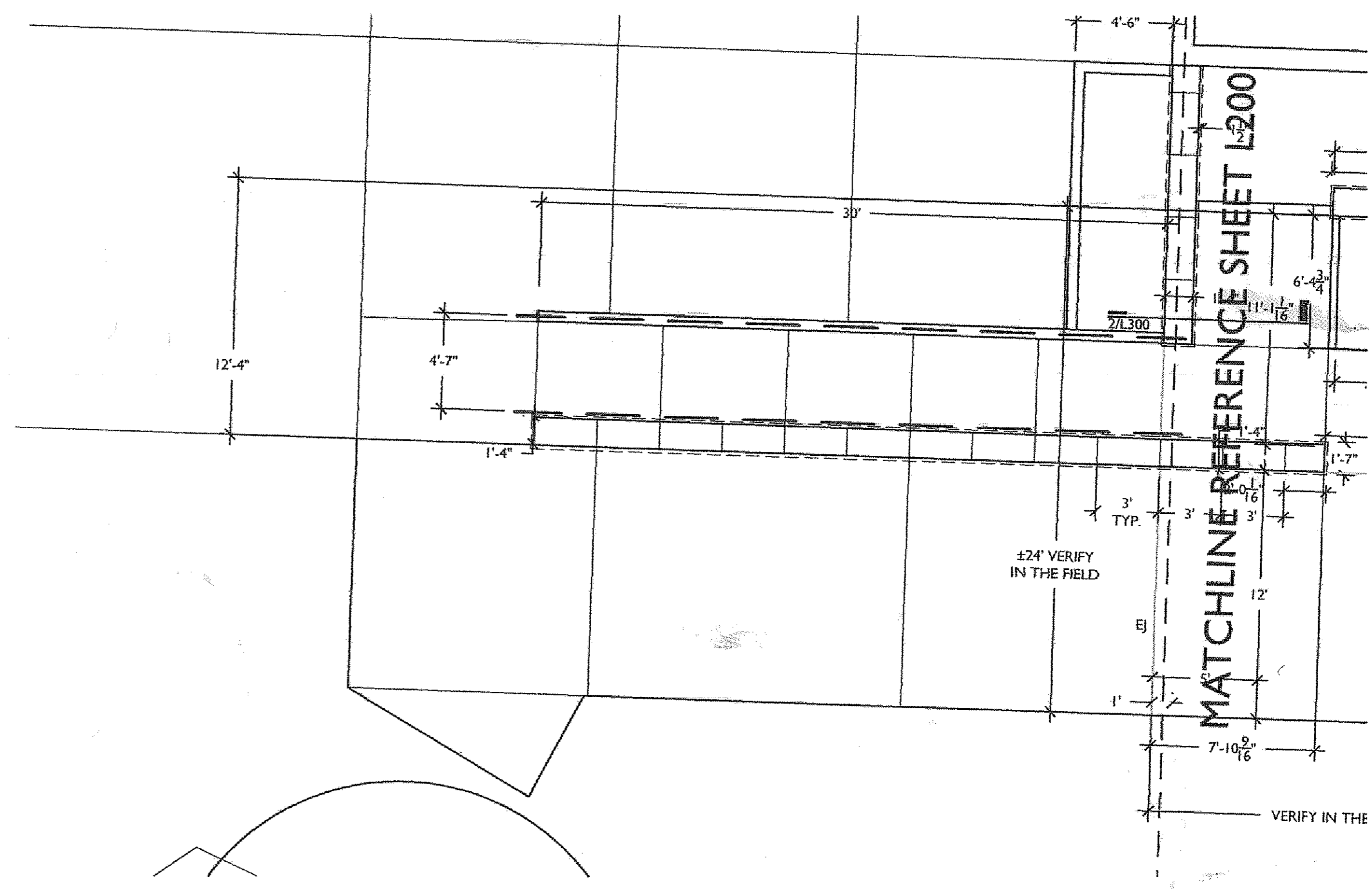


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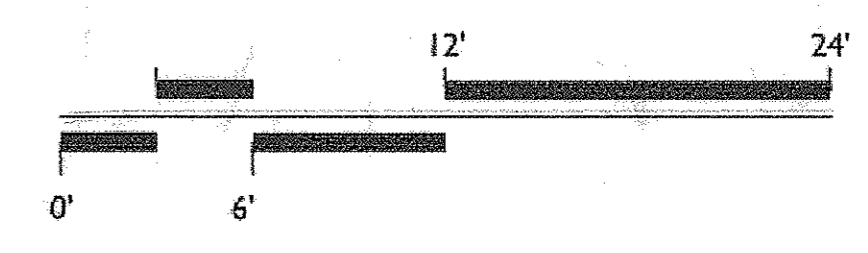
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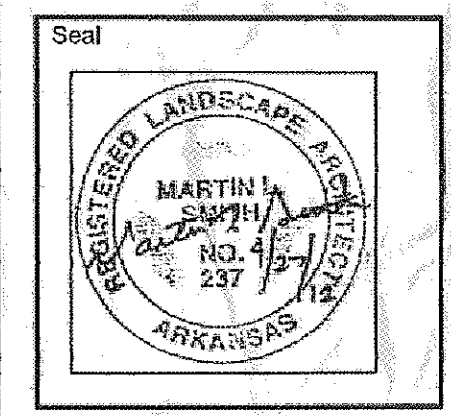
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SCALE 3/16"=1'-0"



**2b SITE LAYOUT PLAN - CONTINUED**  
SCALE 3/16"=1'-0"



**EDG**  
ecological design group  
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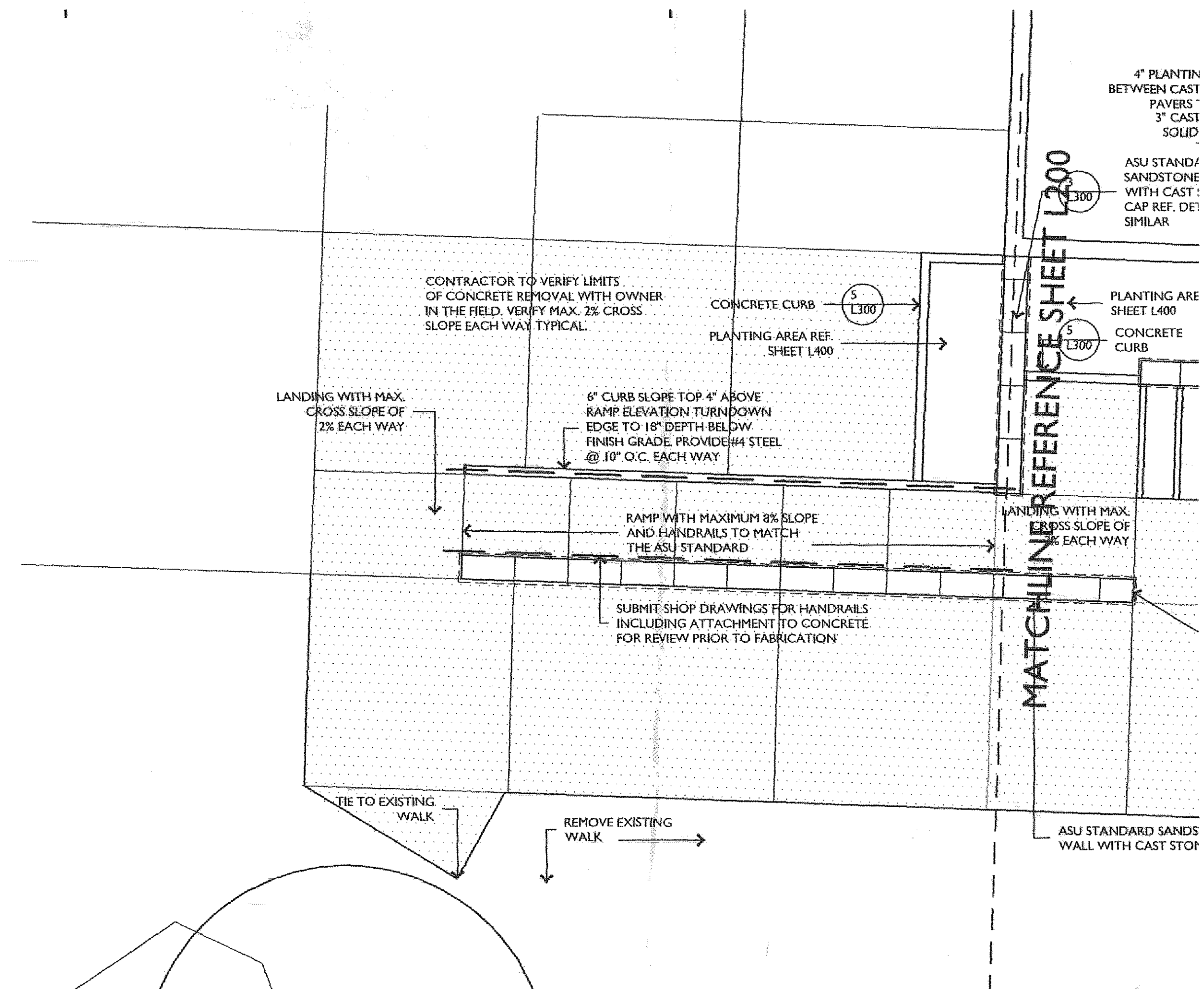


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Project No: 1210	Date: 04/27/12
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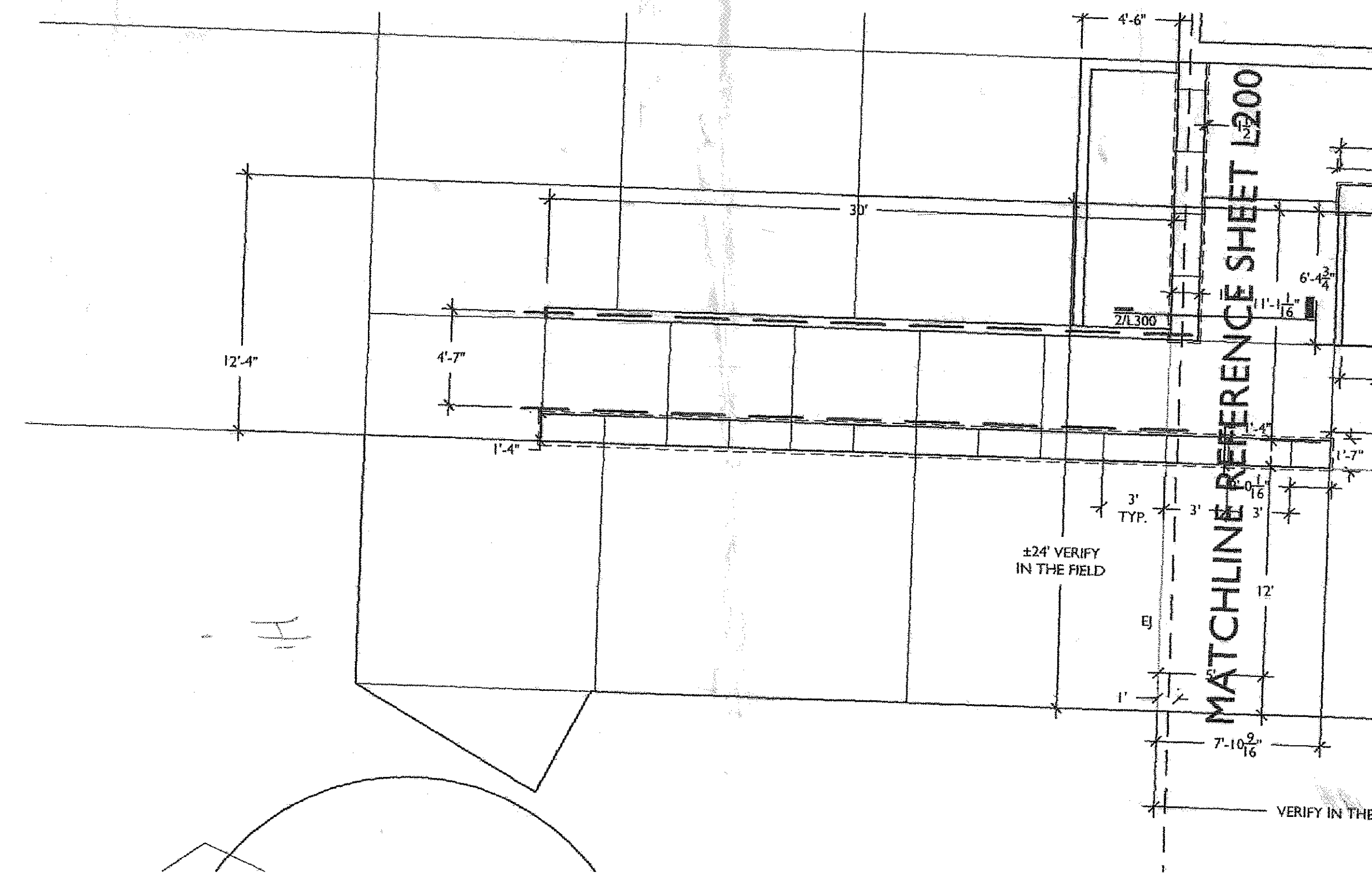
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Revisions:  
JULY 3, 2012 - FIRST ISSUE

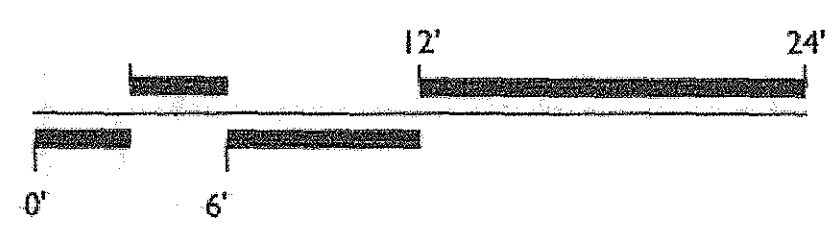
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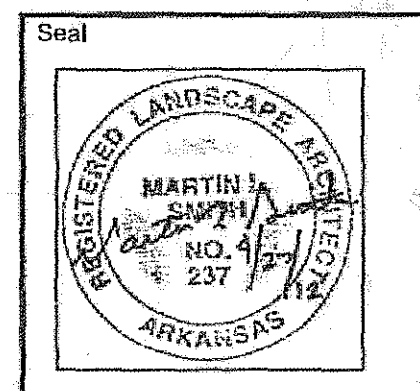
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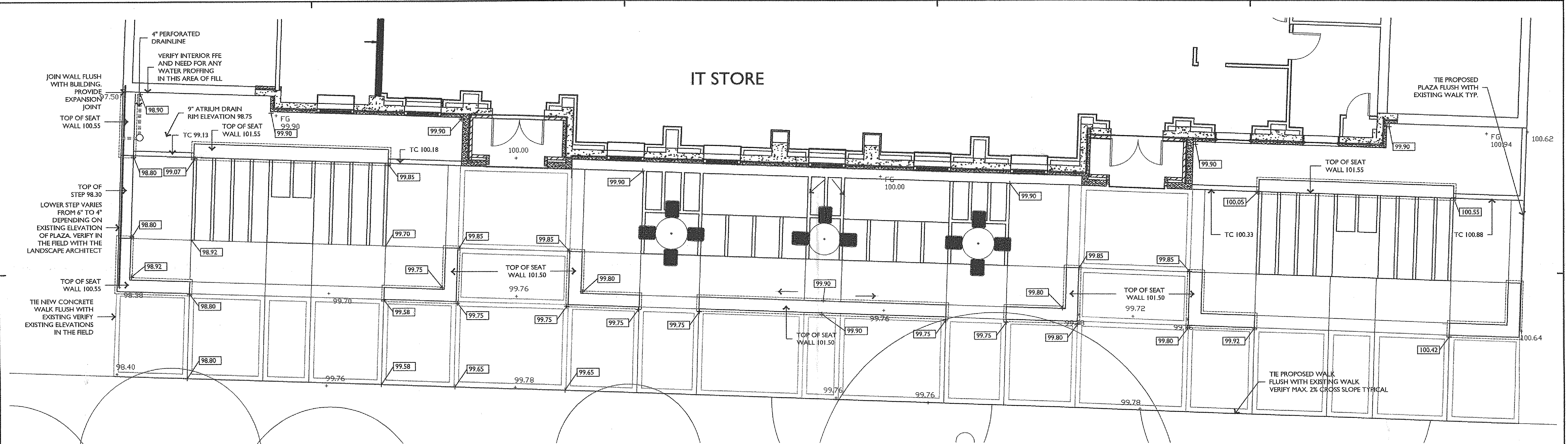


**EDG**  
ecological design group  
210 EAST MERRIMAN  
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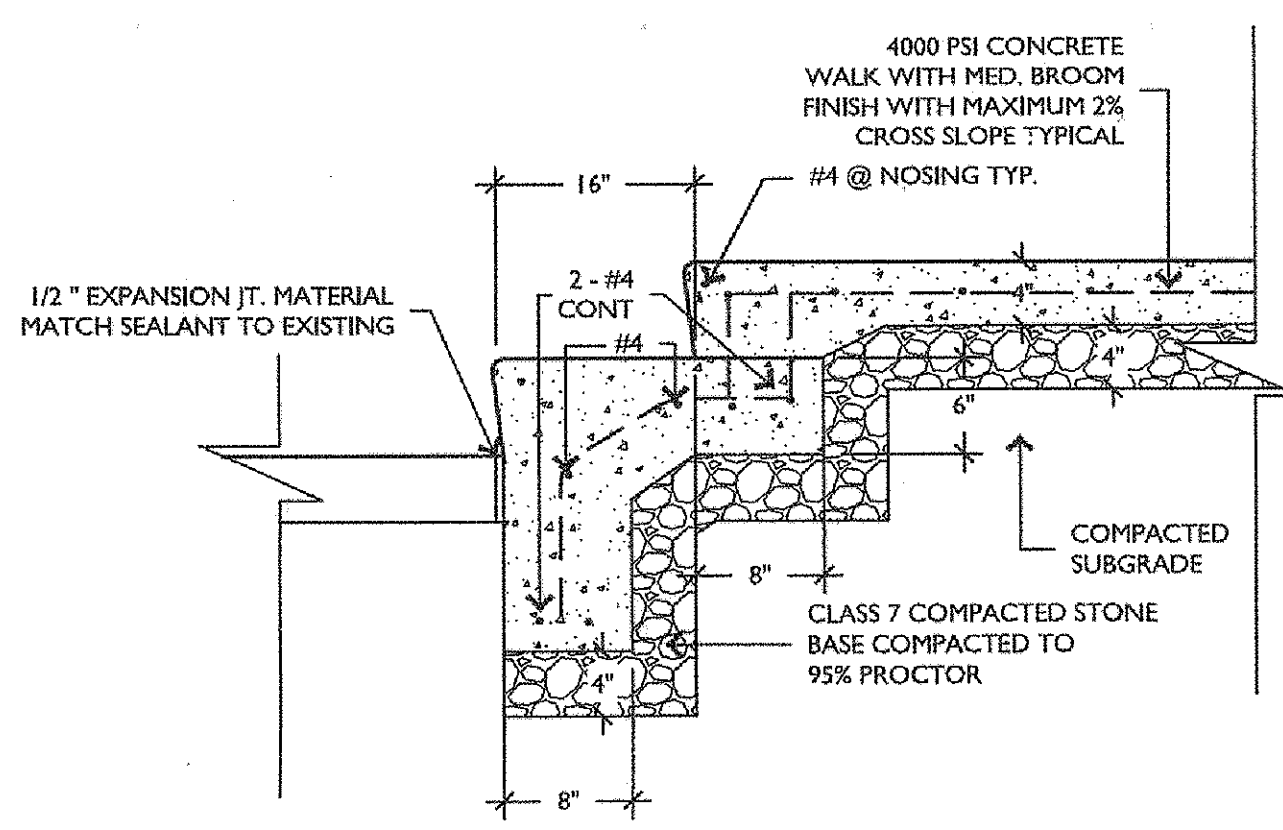
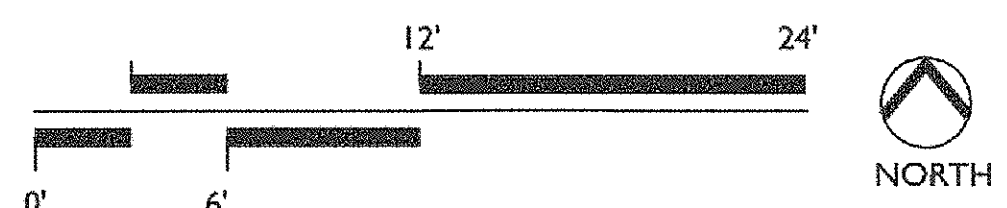


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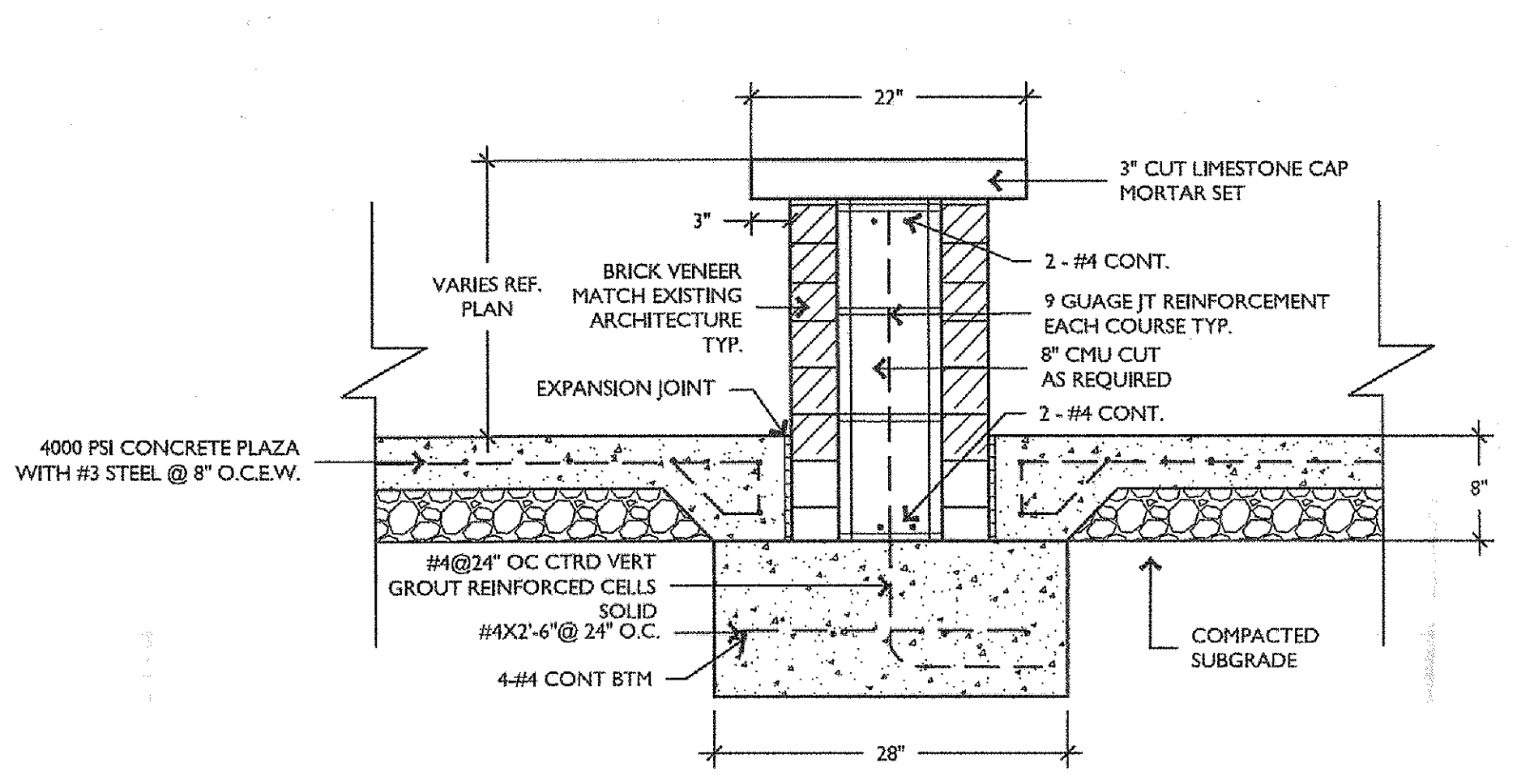
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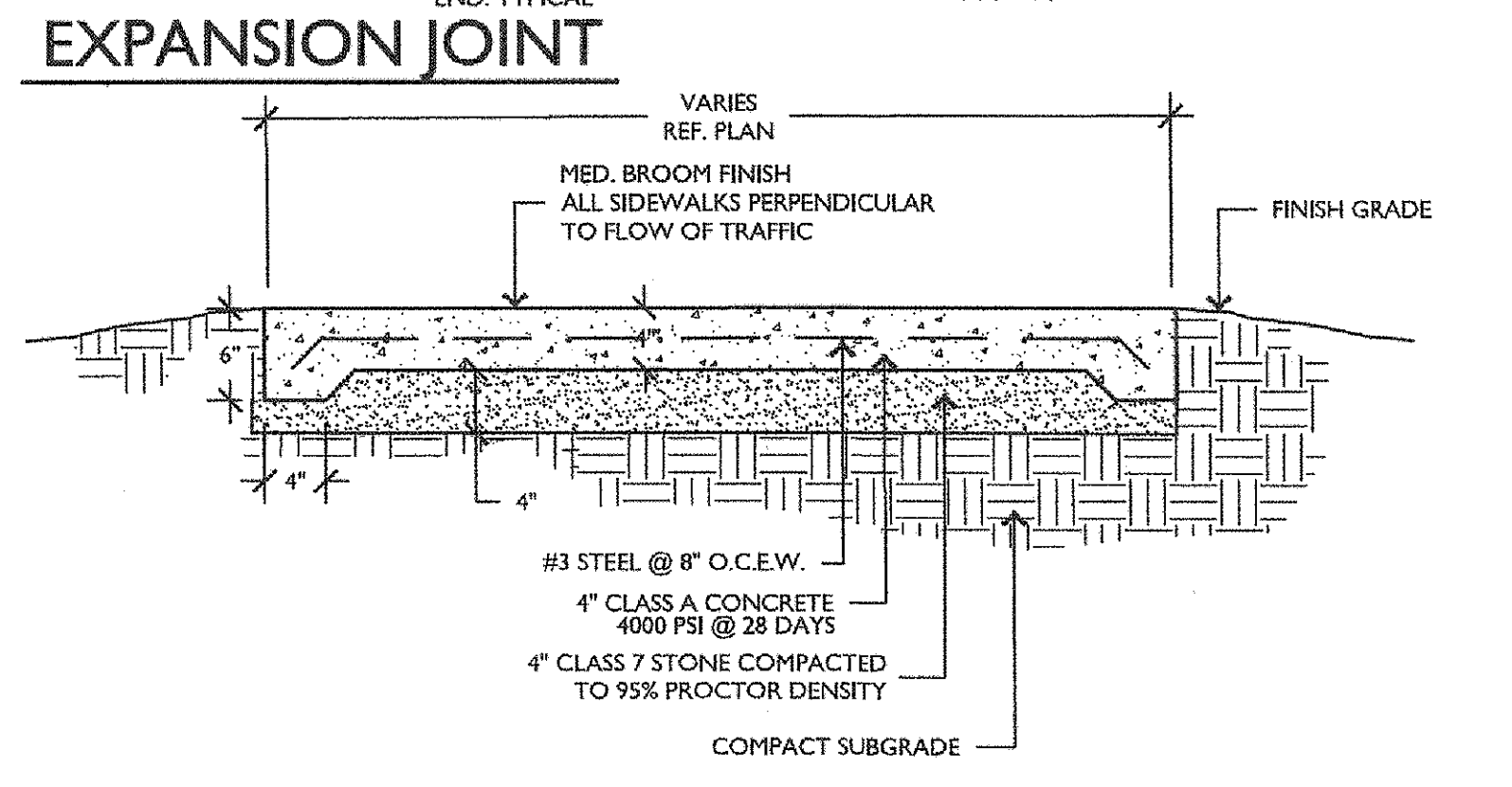
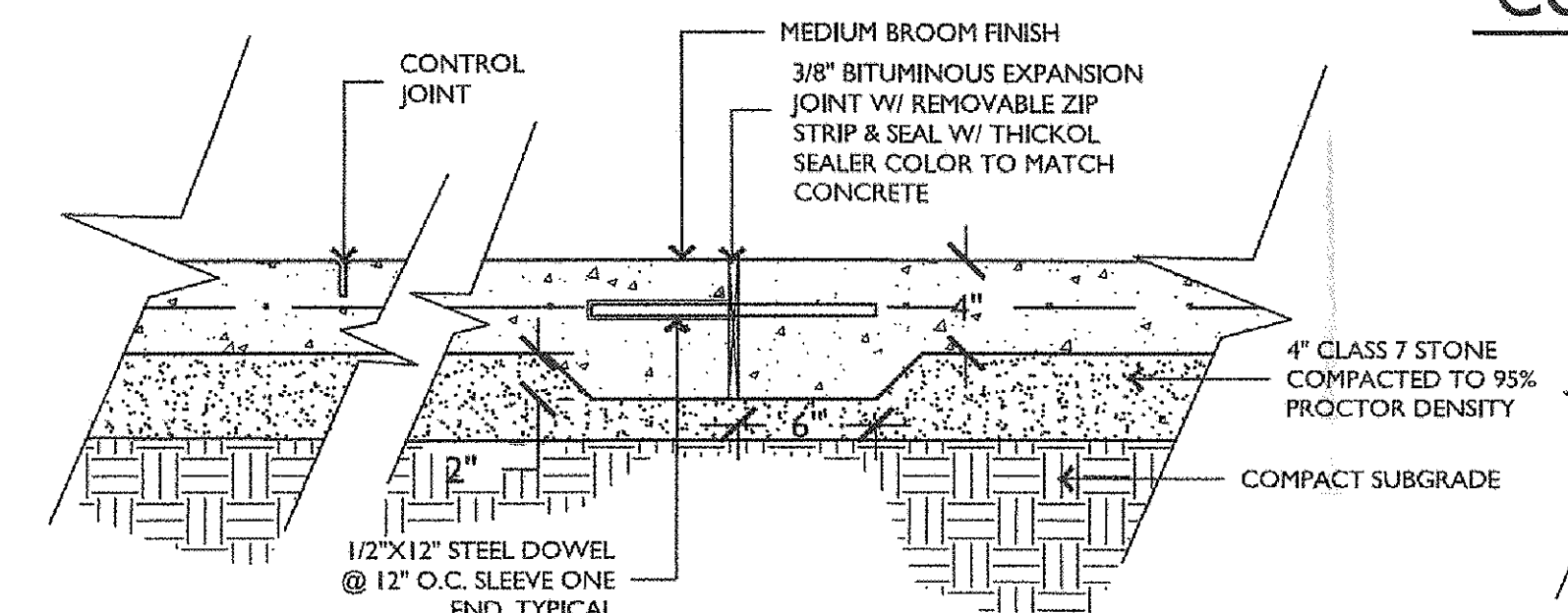
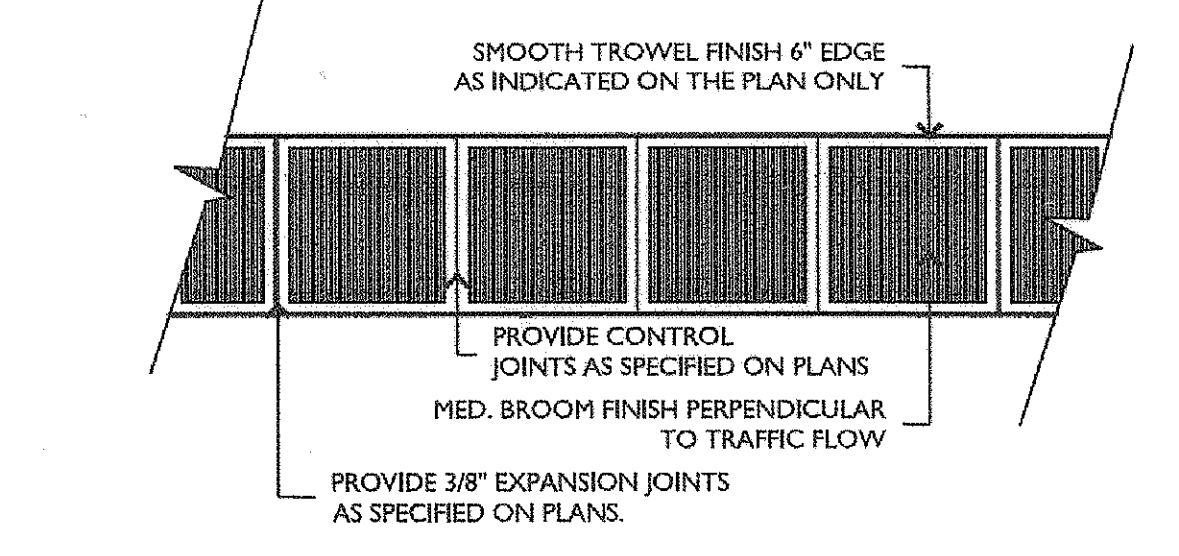
**1 GRADING PLAN**  
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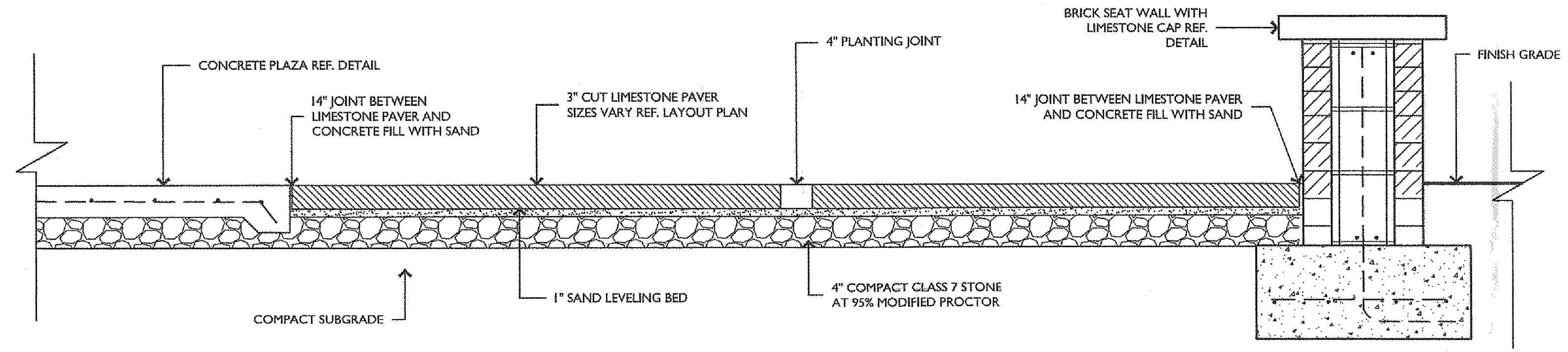
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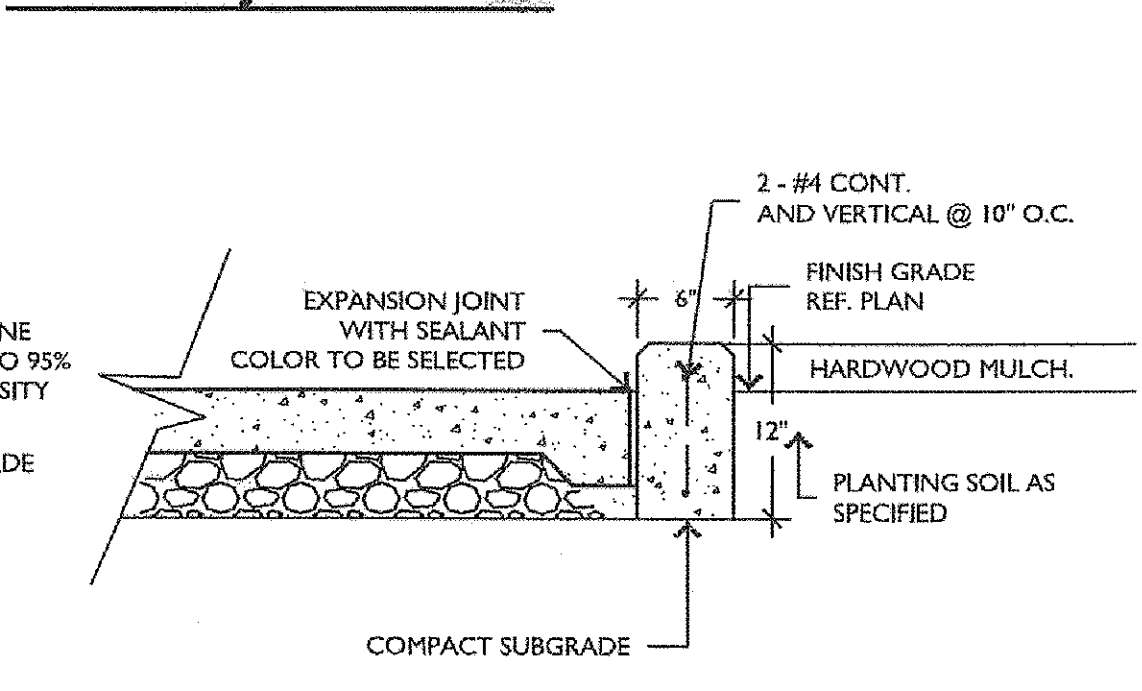
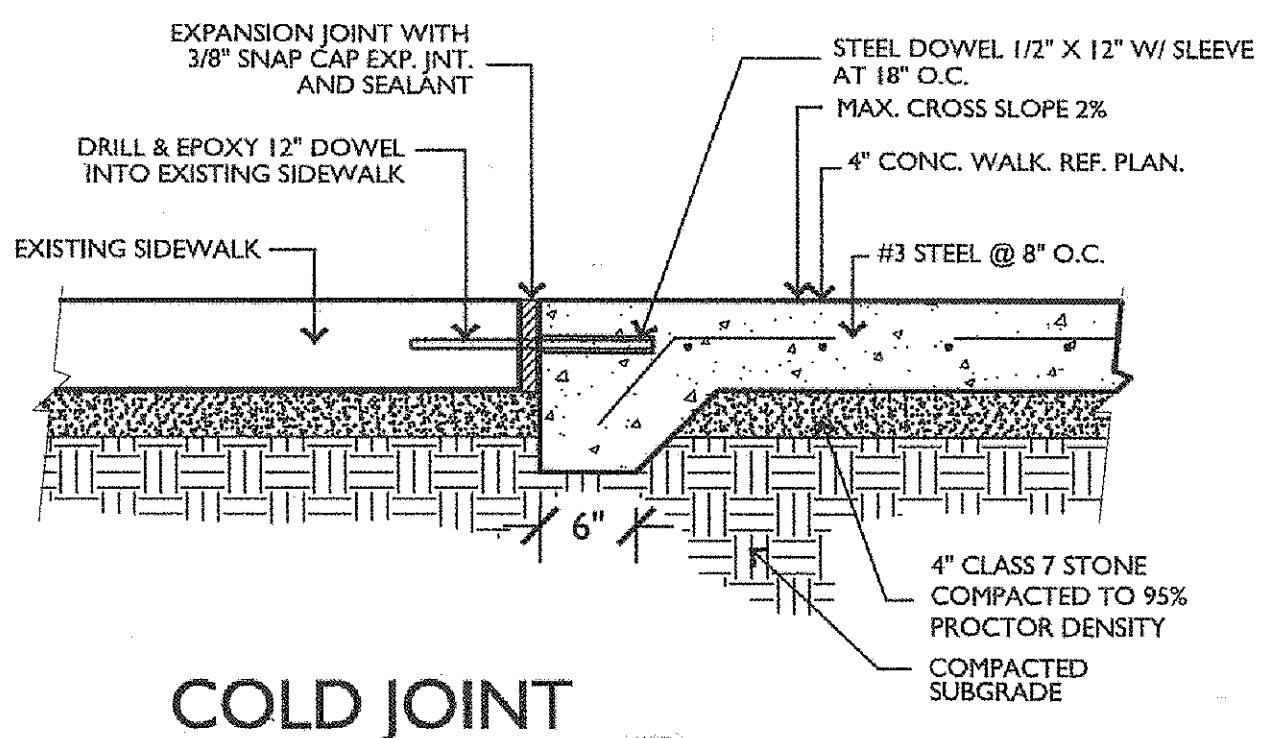
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**5 CONCRETE PLAZA AND SIDEWALK DETAILS**  
NTS



**4 LIMESTONE PAVERS**  
NTS



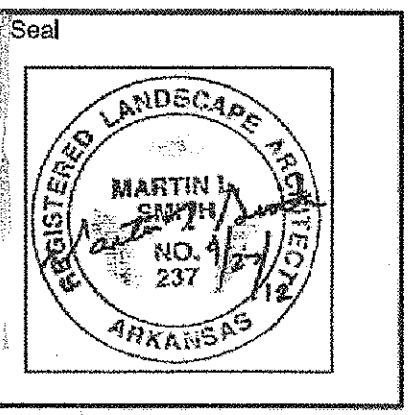
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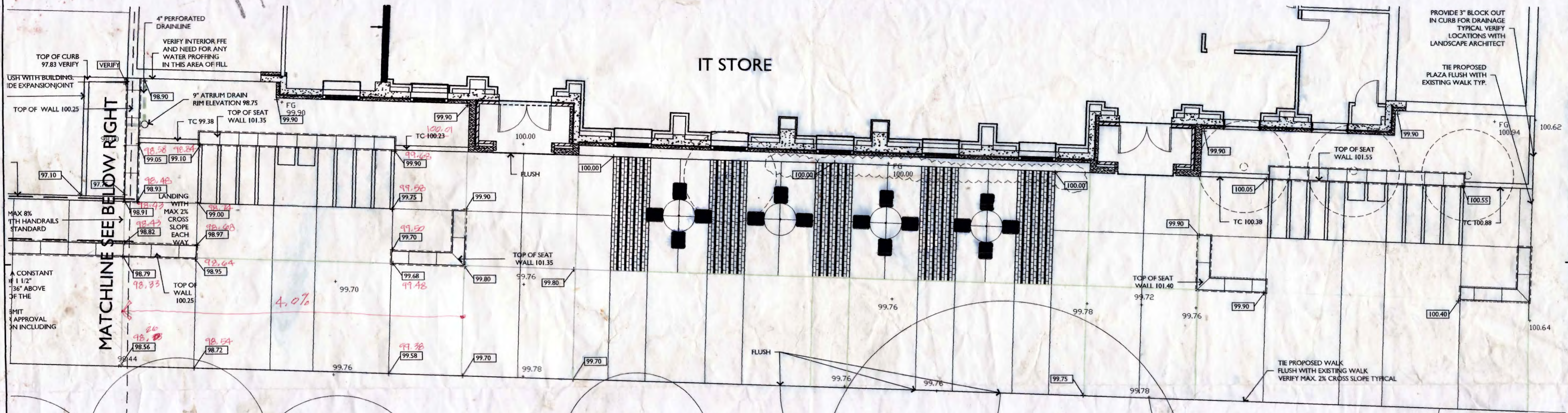


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SITEWORK DETAILS  
Project No: 1210 Date: 04/27/12  
Sheet No:

**L300**



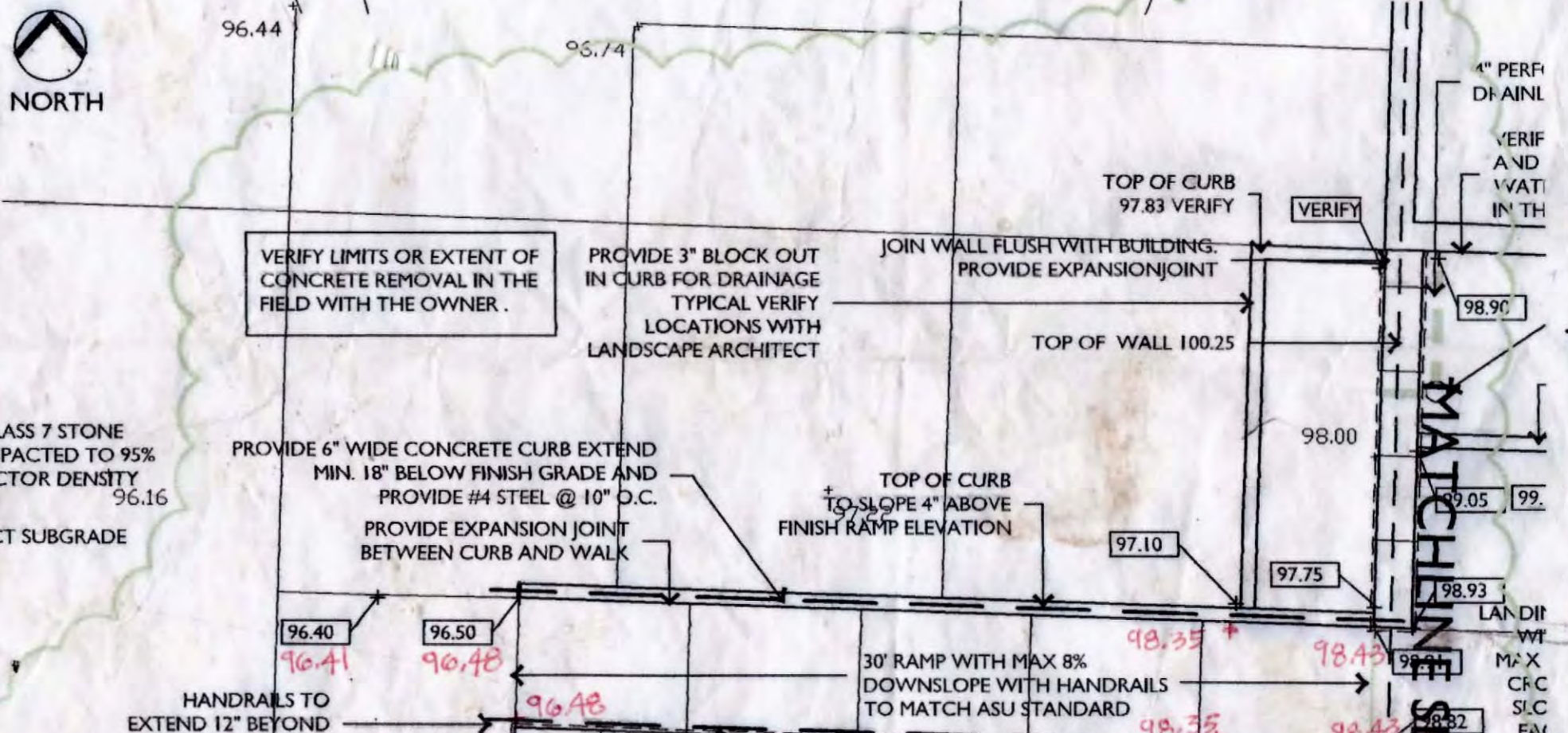
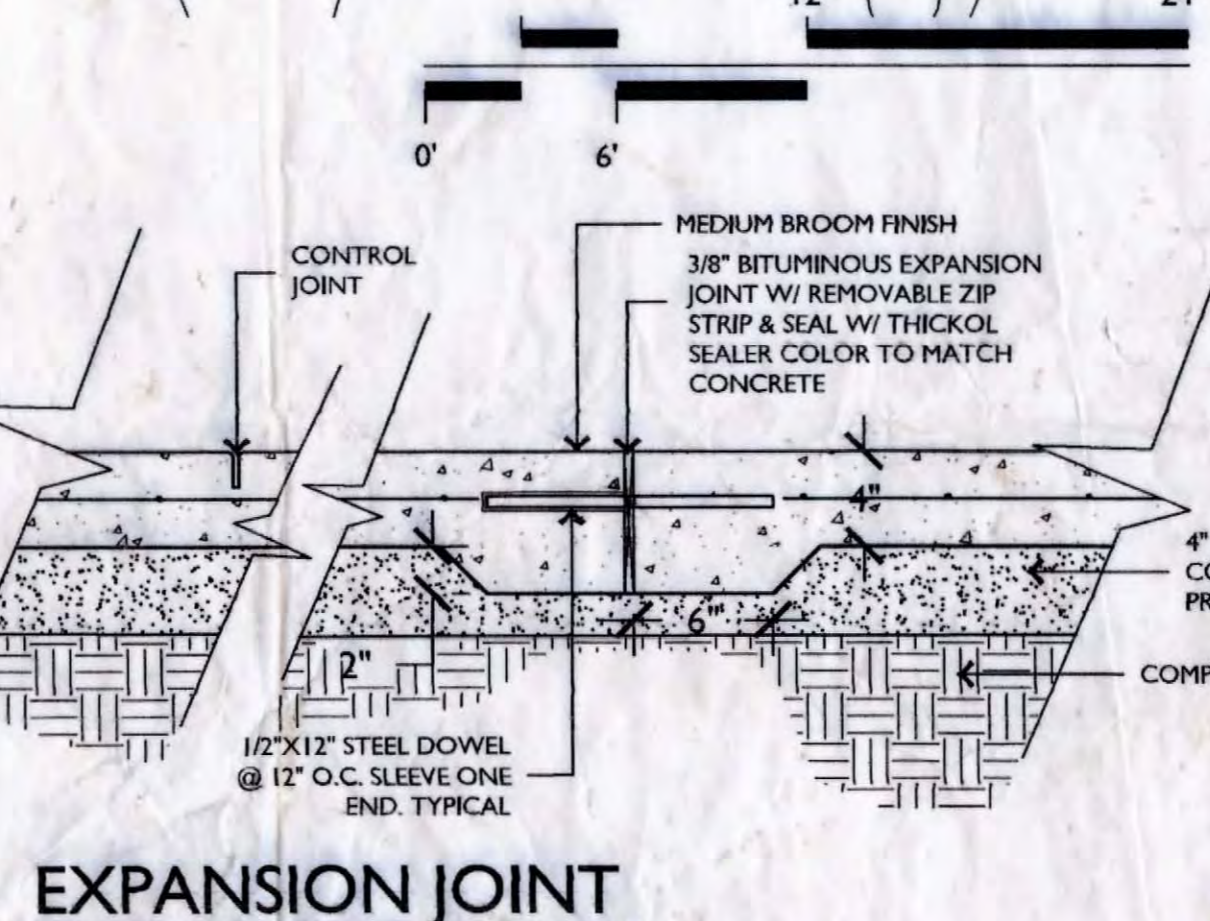
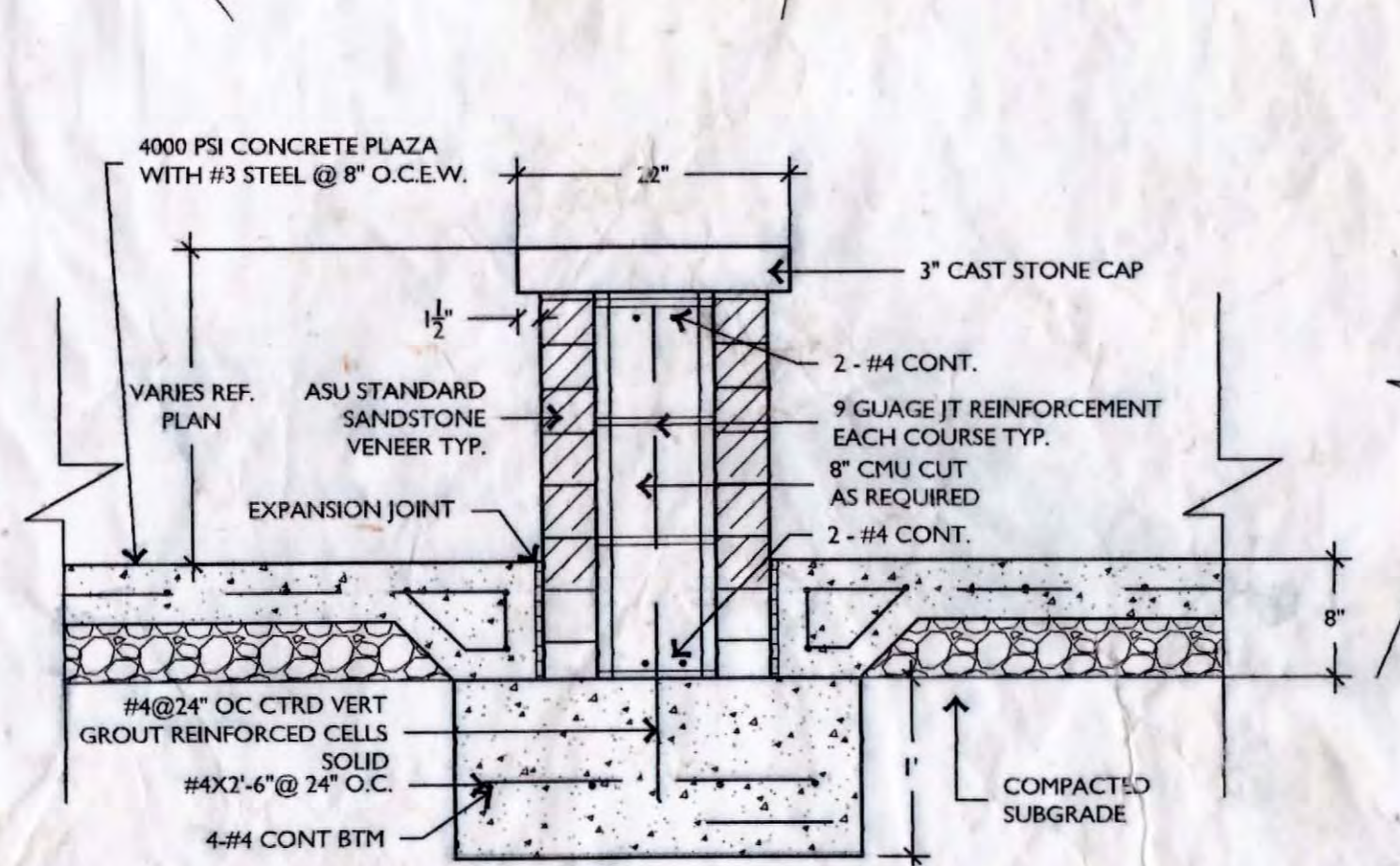
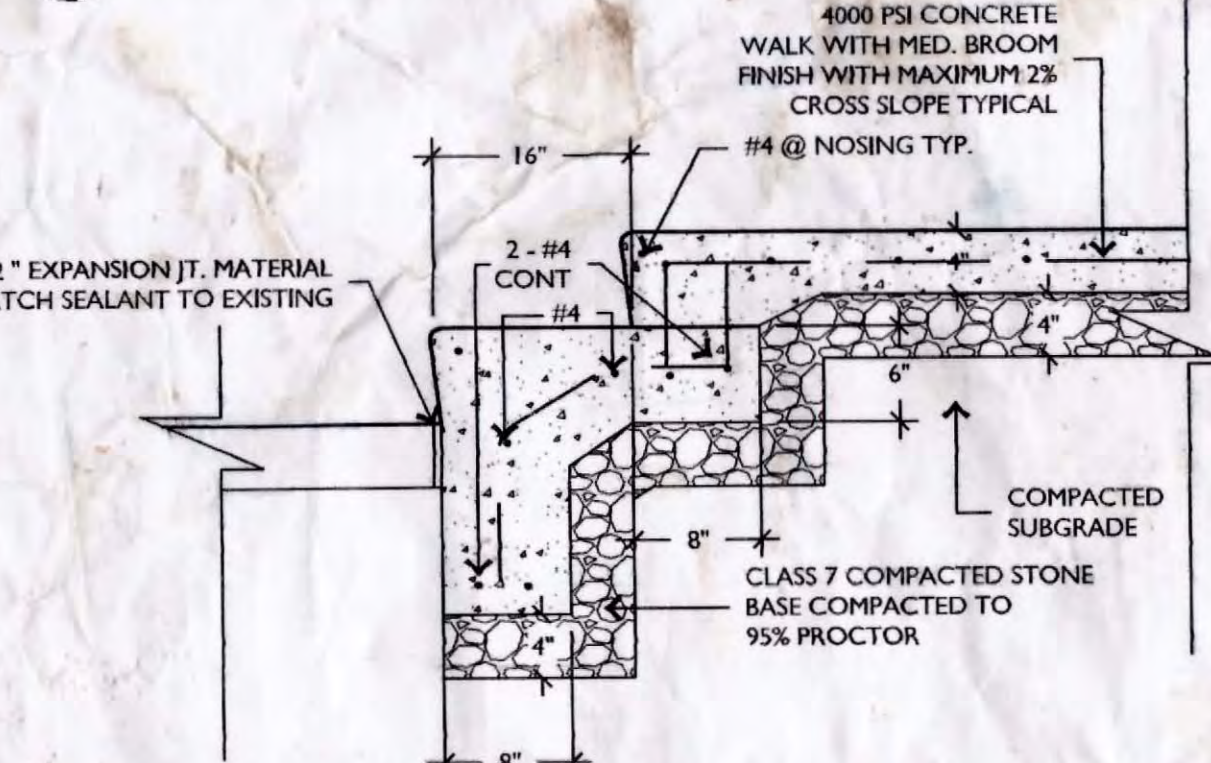




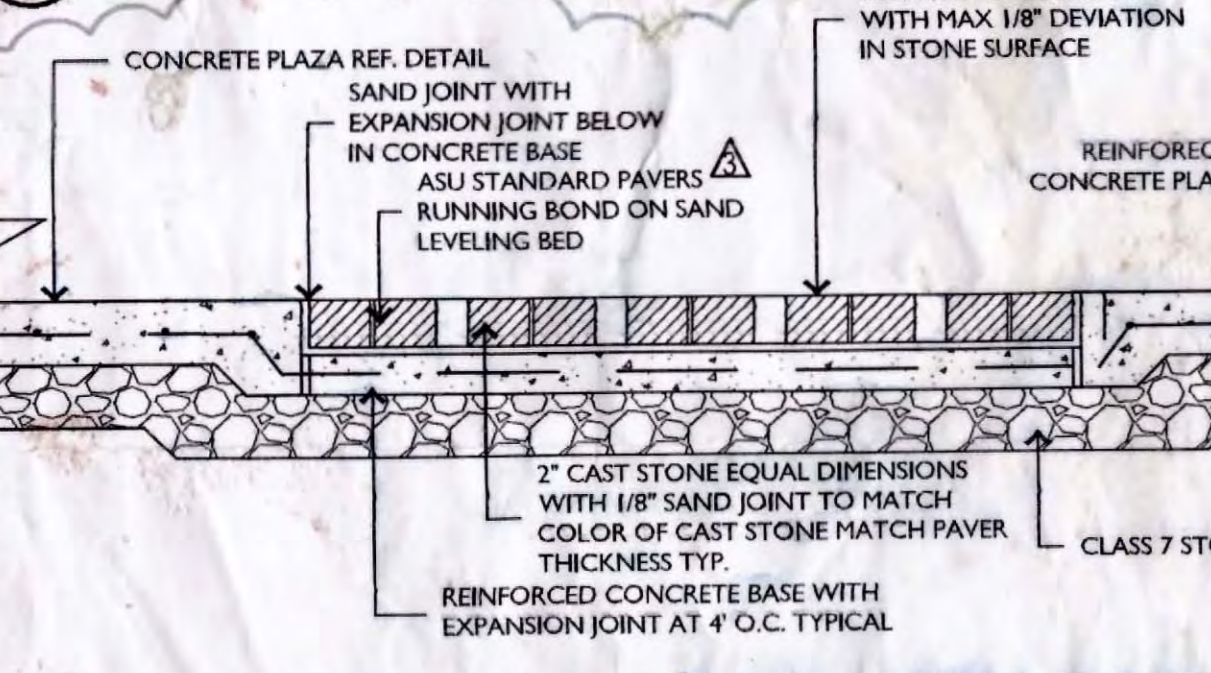
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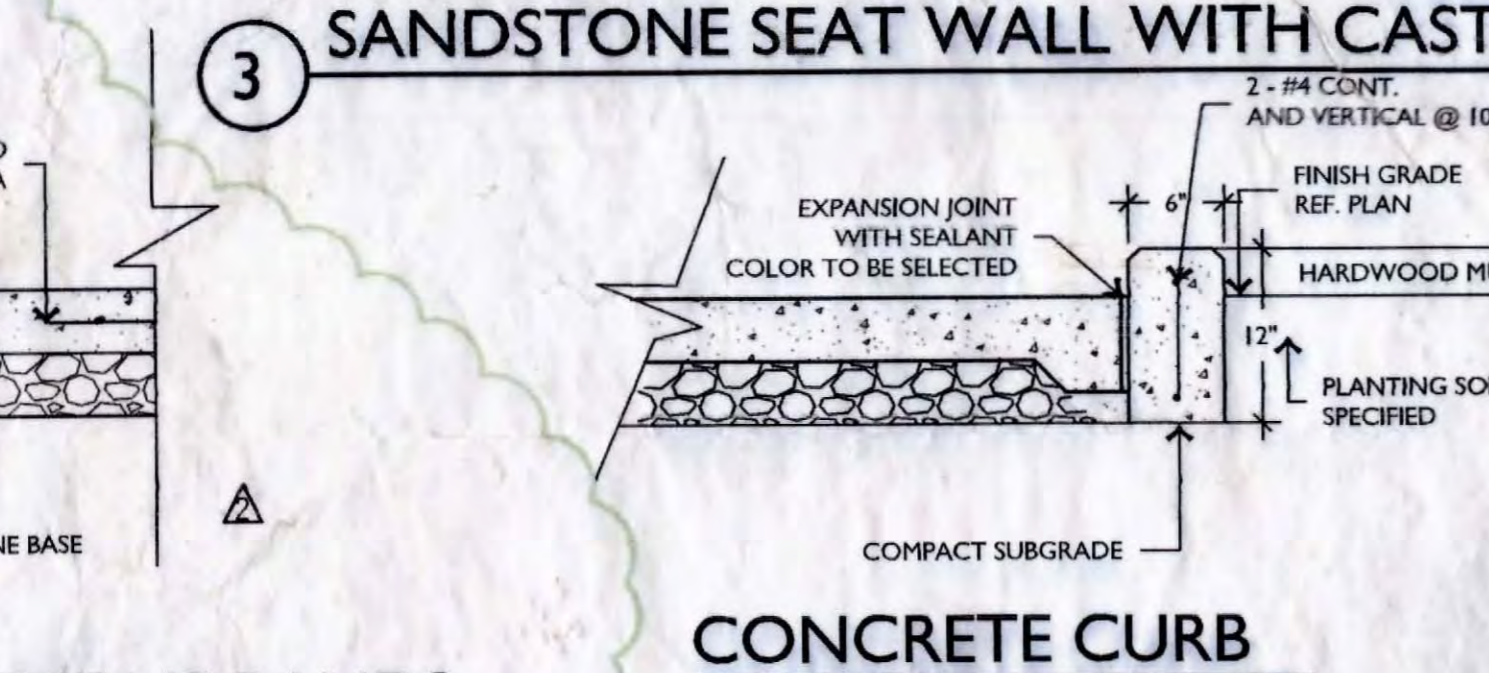
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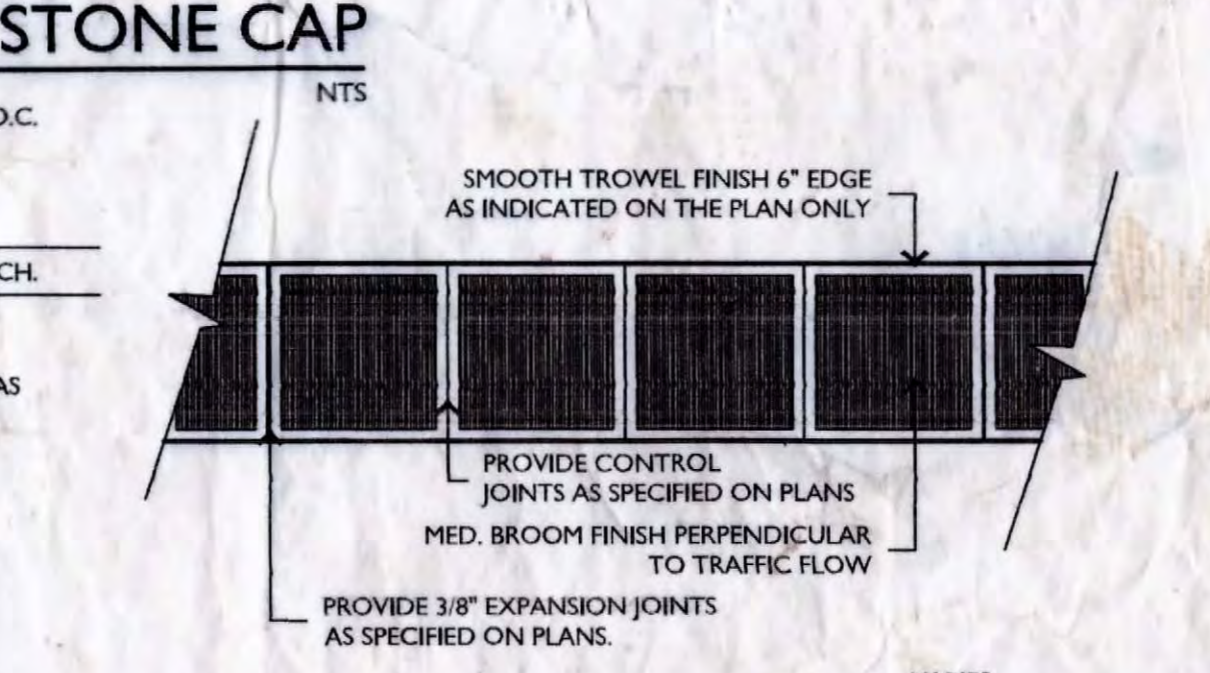
**2 CONCRETE STEPS**  
 NTS



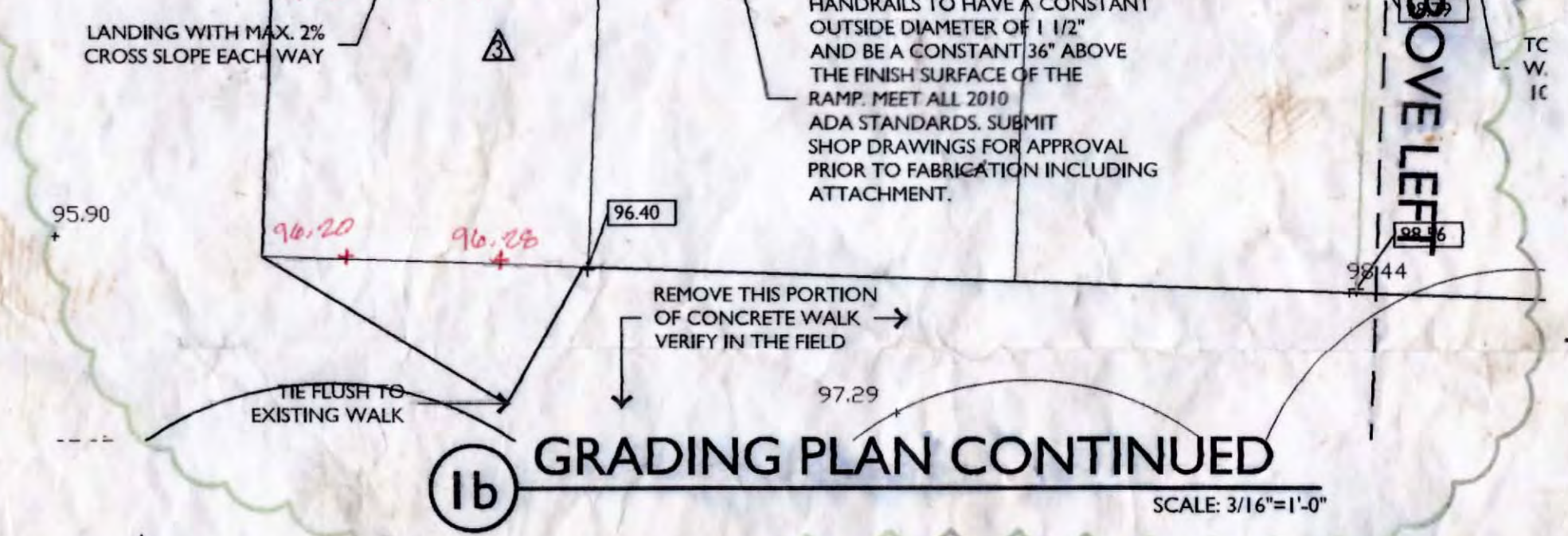
**3 SANDSTONE SEAT WALL WITH CAST STONE CAP**  
 NTS



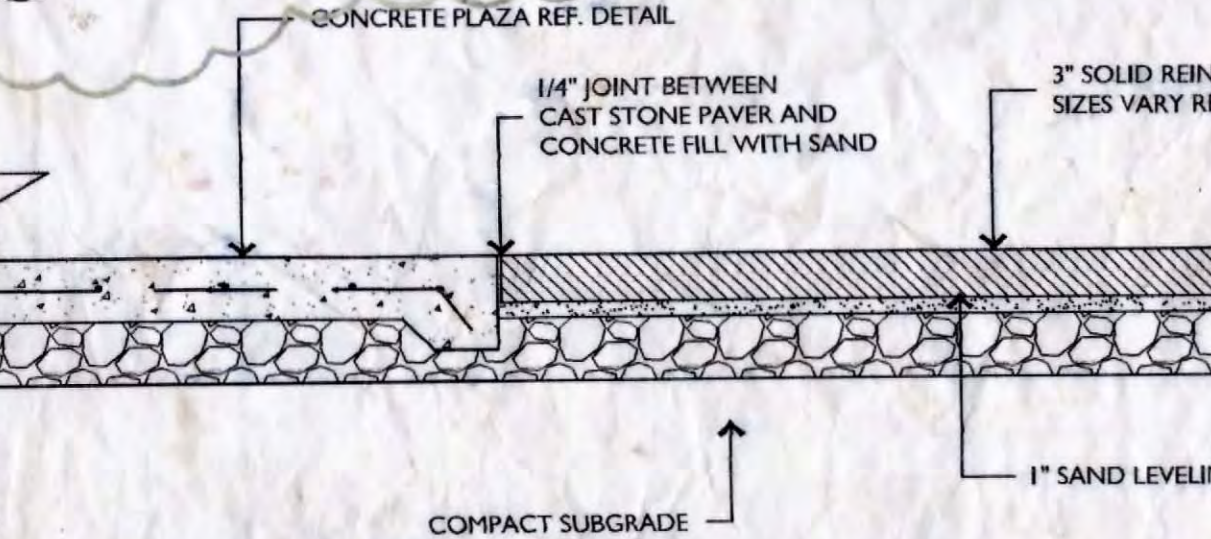
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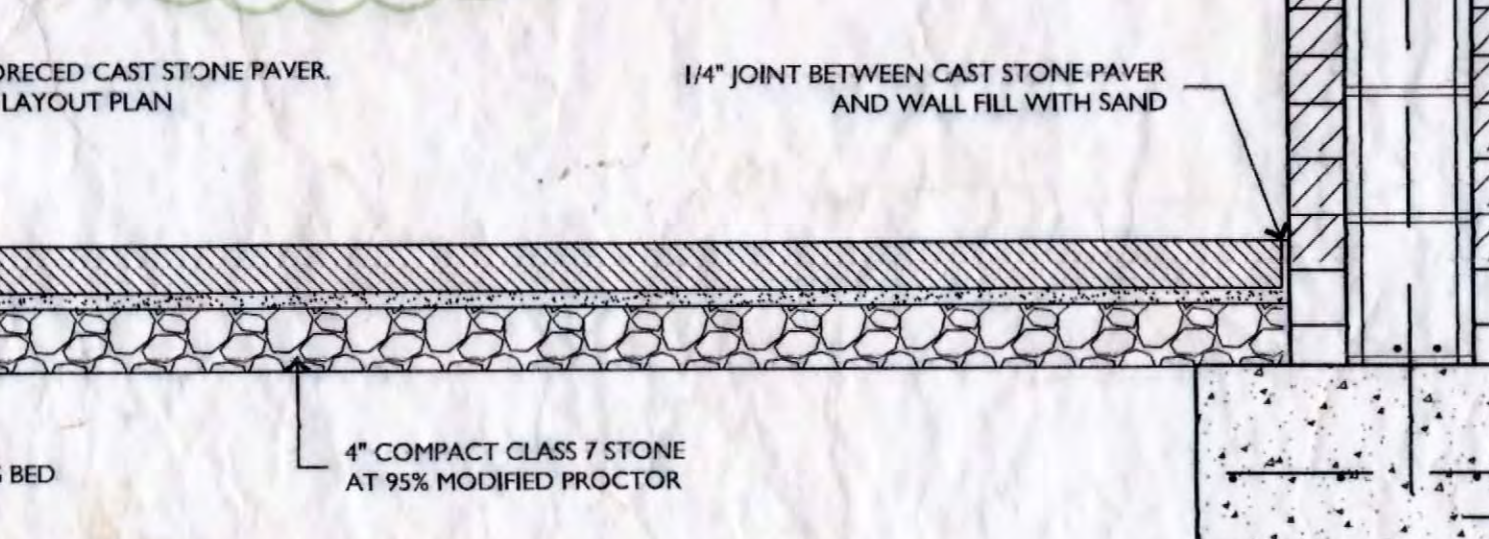
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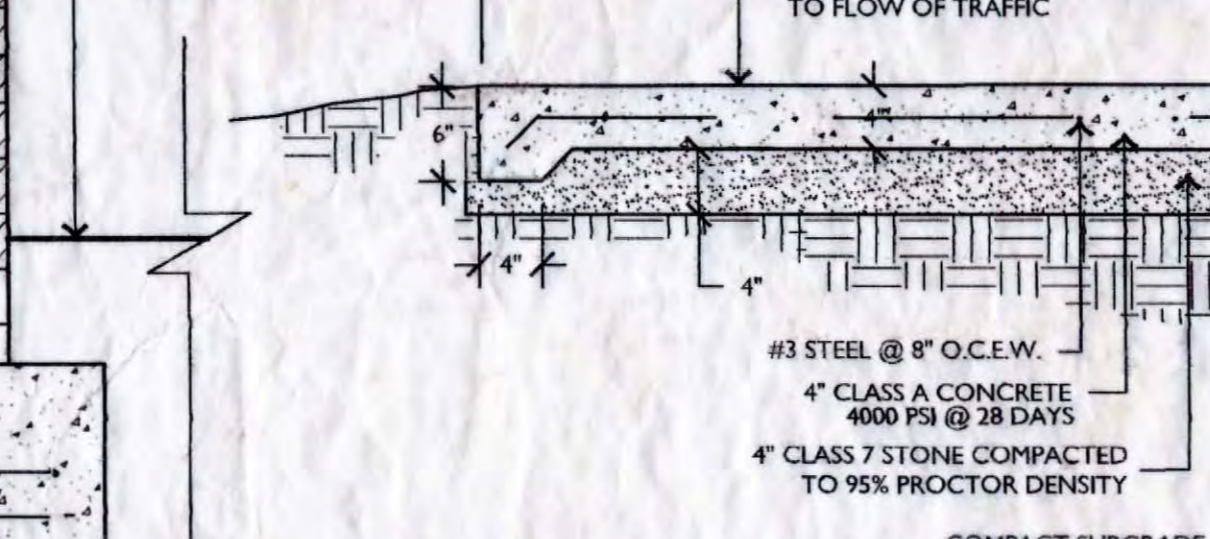
**6 ASU STANDARD PAVER WITH CAST STONE BANDS**  
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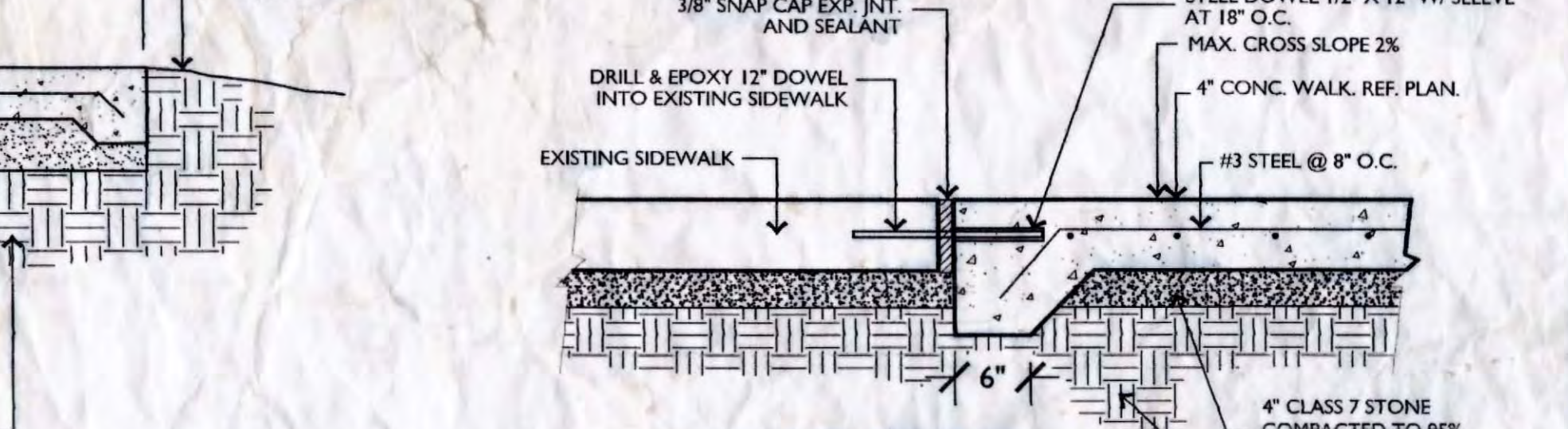
**CONCRETE CURB**



**5 CONCRETE PLAZA AND SIDEWALK DETAILS**  
 NTS



**COLD JOINT**



**4 CAST STONE PAVERS**  
 NTS



**EDG**  
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 WYNNE, ARKANSAS  
 870-588-6426

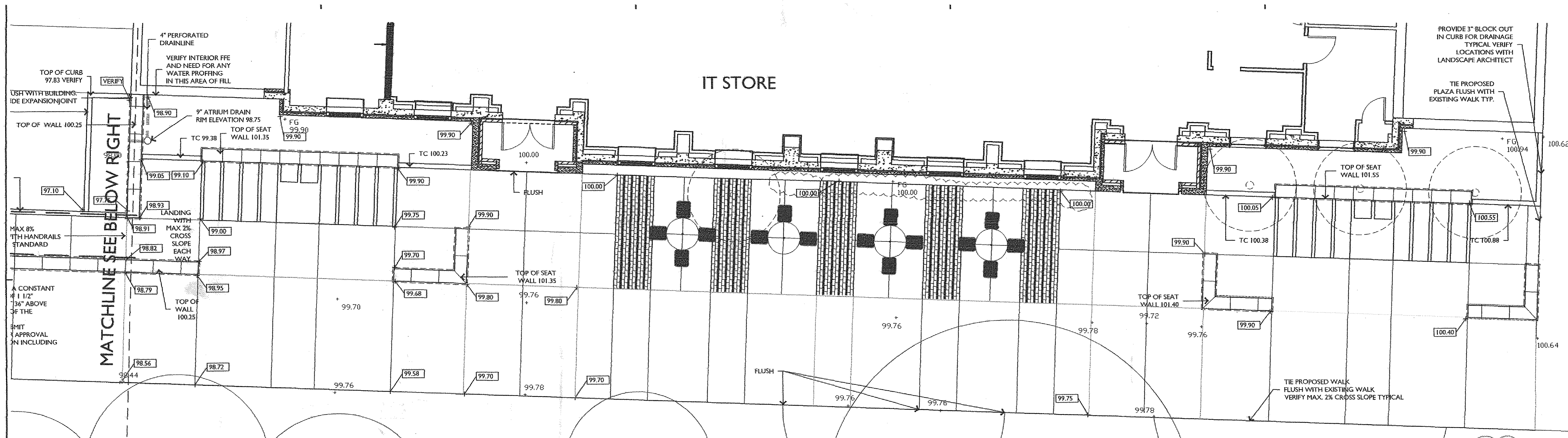
Seal  
 REGISTERED LANDSCAPE ARCHITECT  
 MARTIN SMITH  
 NO. 417  
 237  
 ARKANSAS

Sheet Name: GRADING PLAN  
 SITEWORK DETAILS  
 Project No: 1210  
 Date: 04/27/12  
 Sheet No:

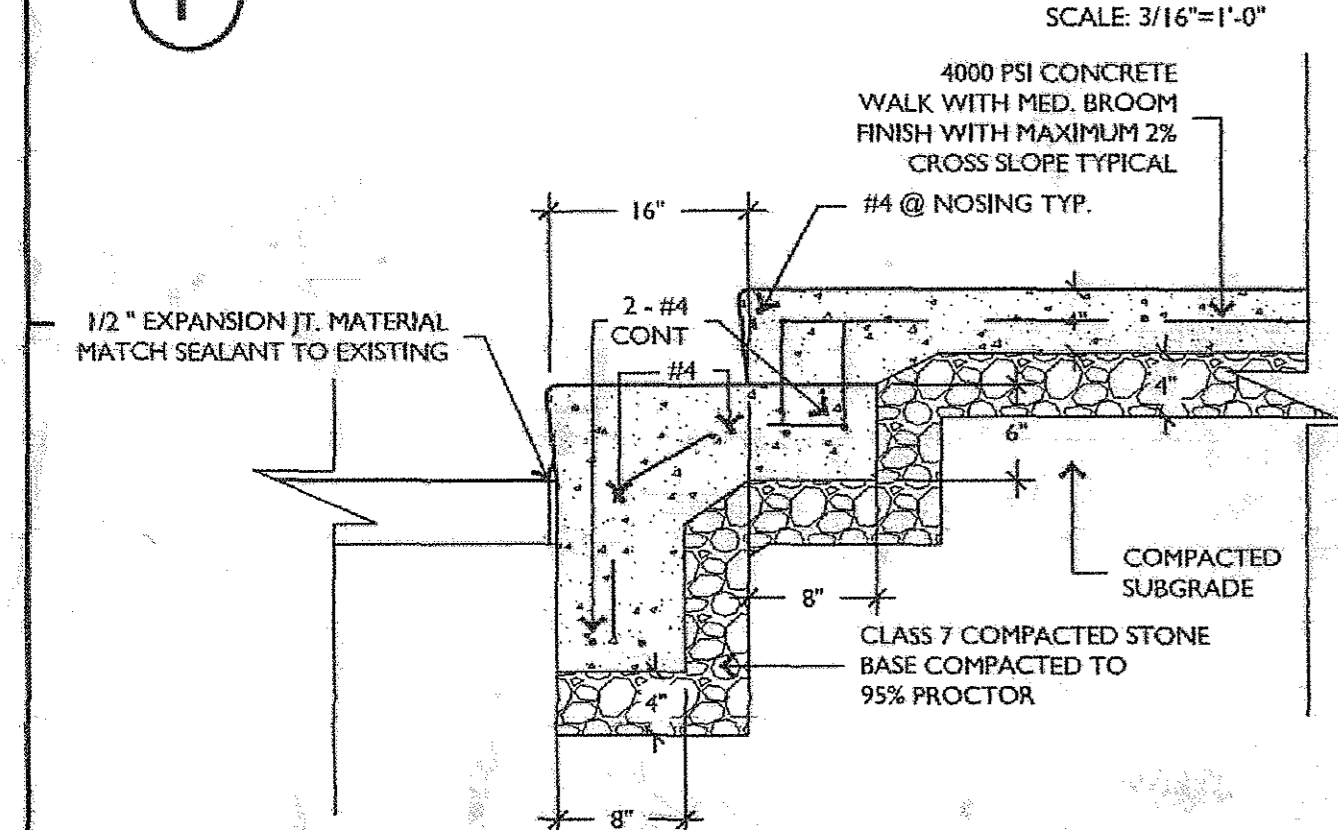
**L300**  
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Revisions:  
 JUN 18, 2012  
 JUN 20, 2012  
 JUL 3, 2012

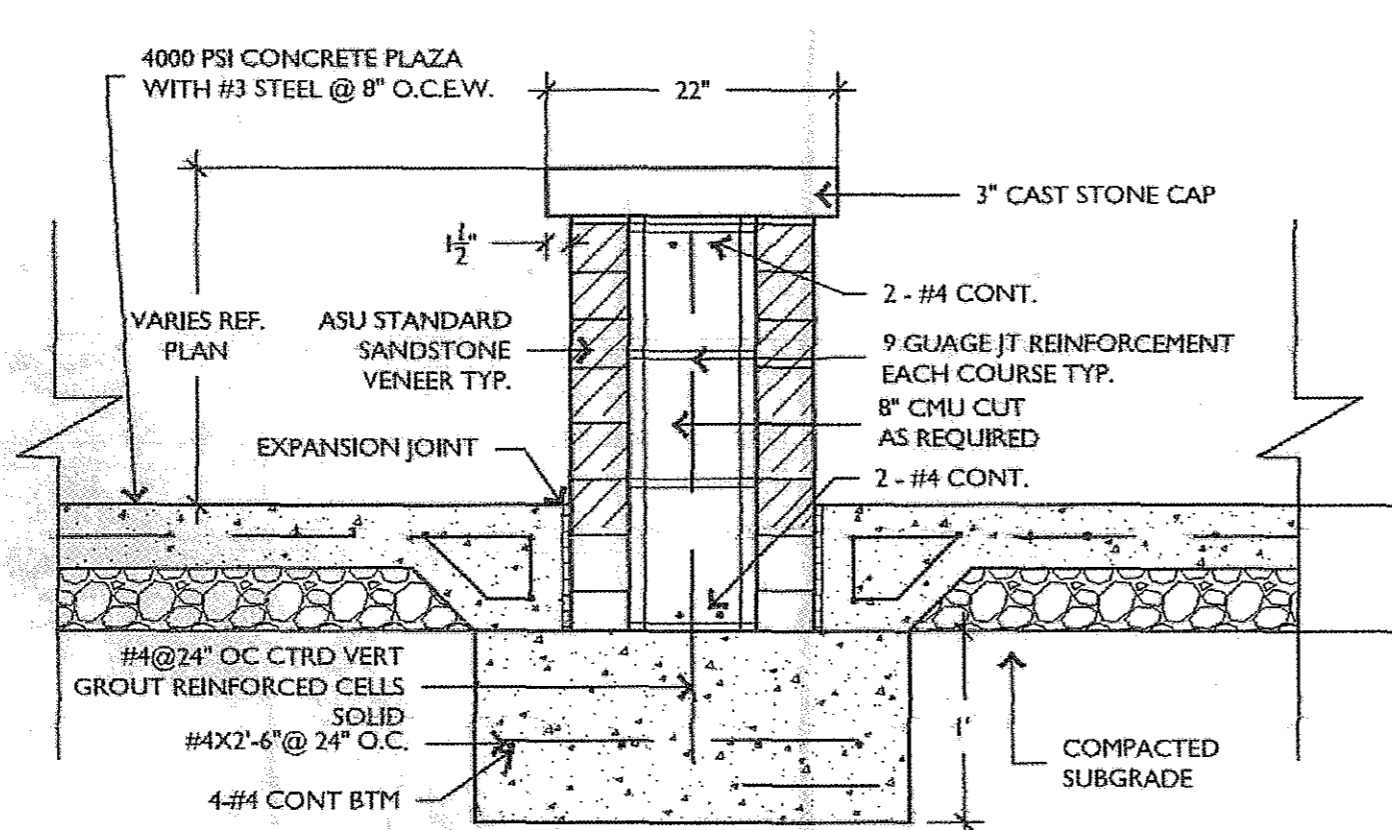
**ARKANSAS STATE UNIVERSITY**  
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 2405 AGGIE WAY  
 Jonesboro, Arkansas



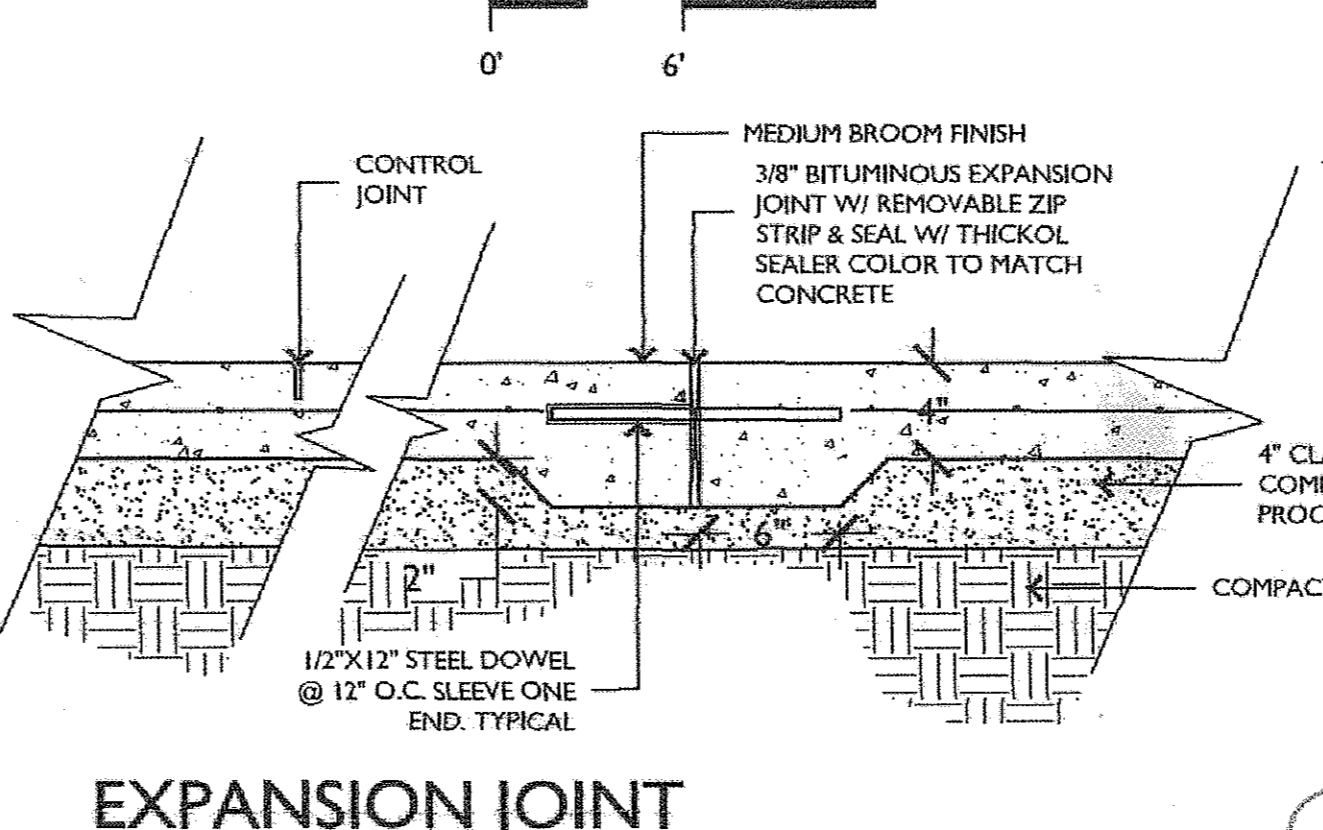
**1 GRADING PLAN**  
 SCALE: 3/16"=1'-0"



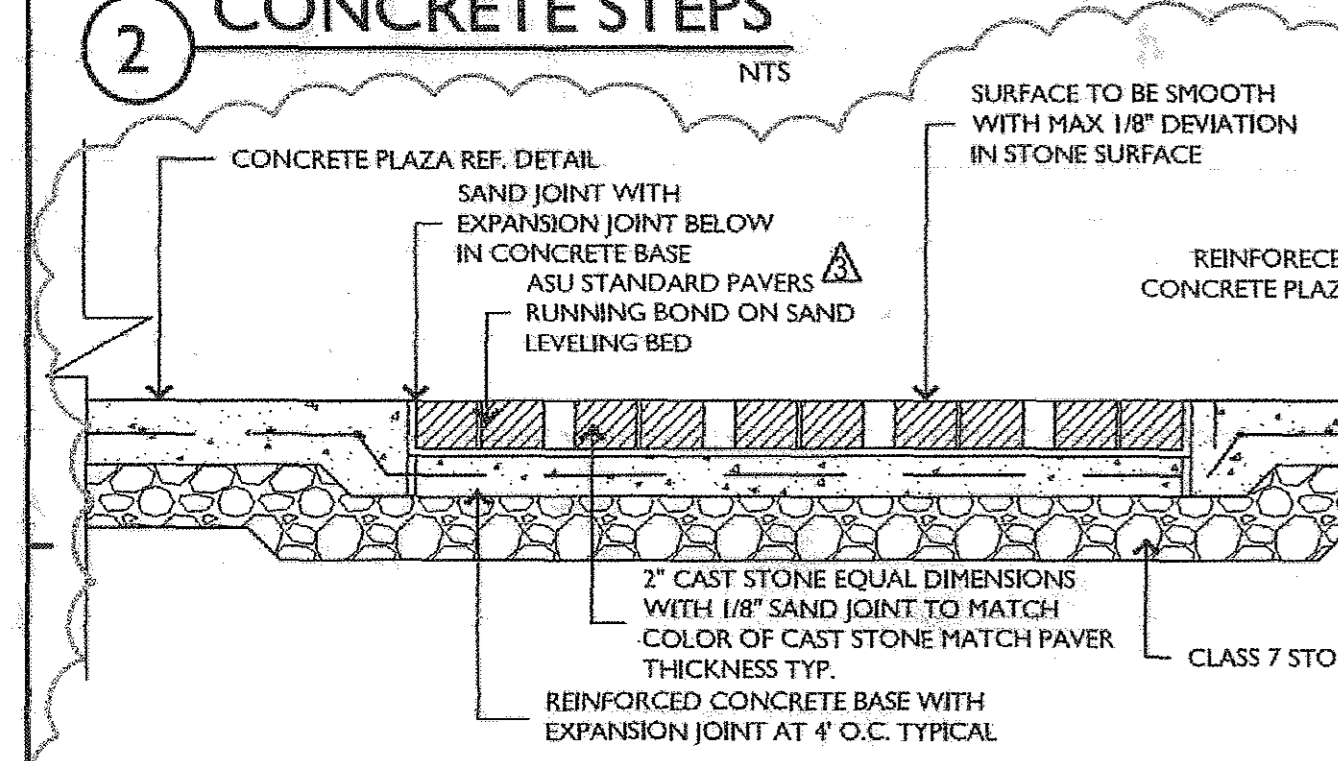
**2 CONCRETE STEPS**  
 NTS



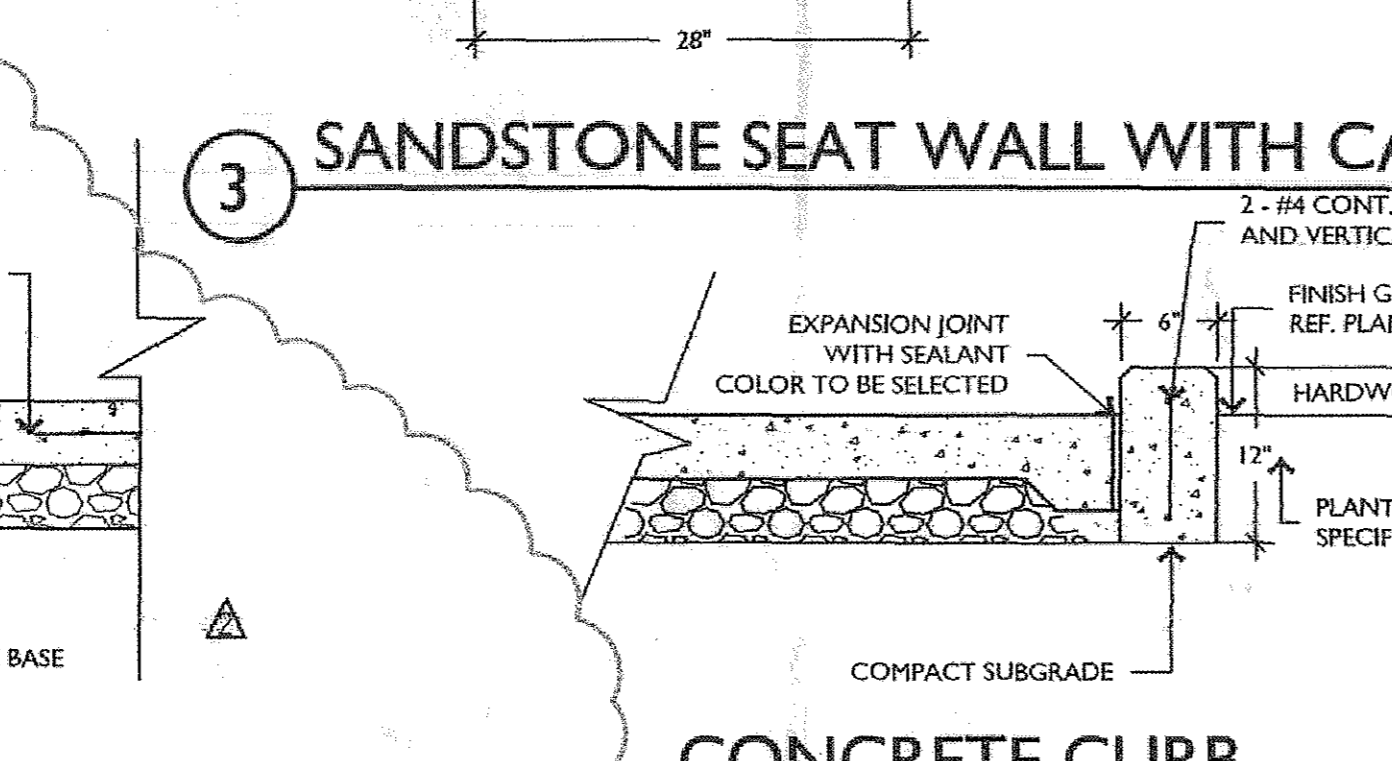
**3 SANDSTONE SEAT WALL WITH CAST STONE CAP**  
 NTS



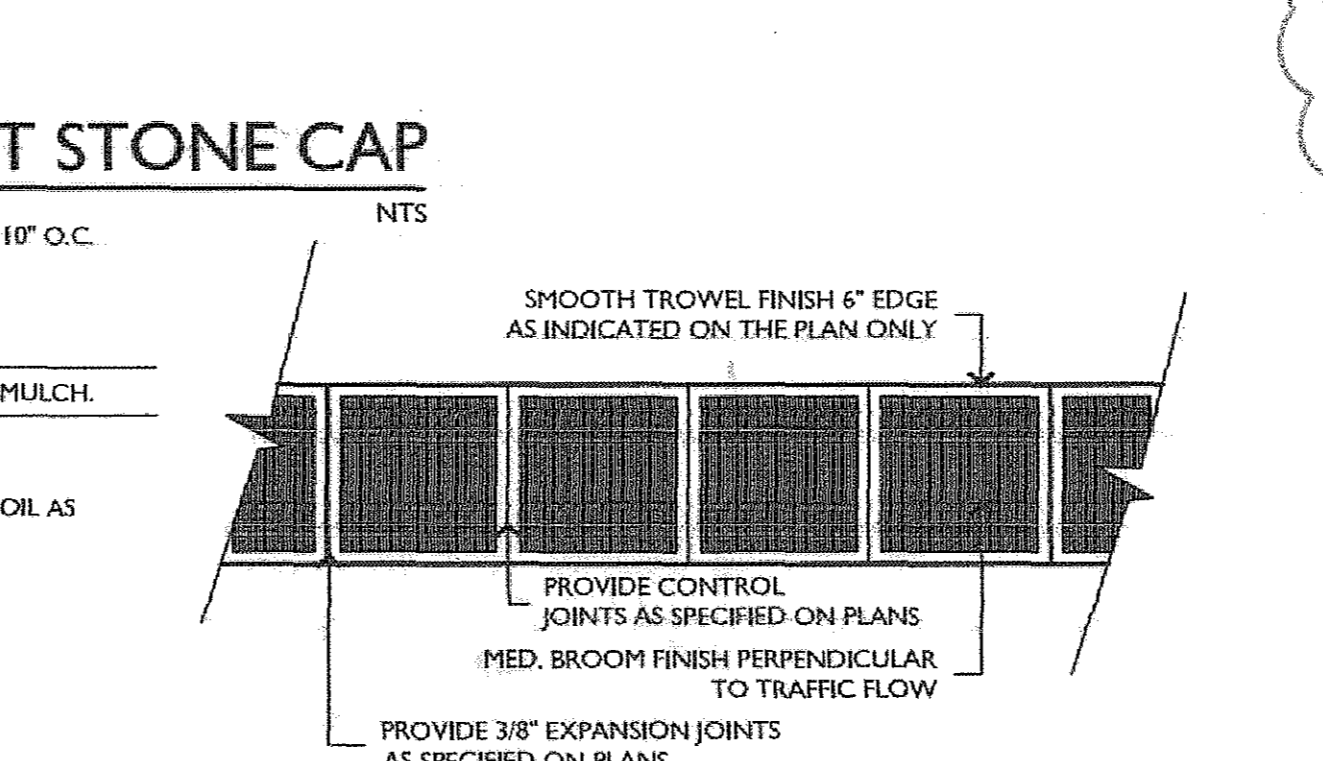
**EXPANSION JOINT**



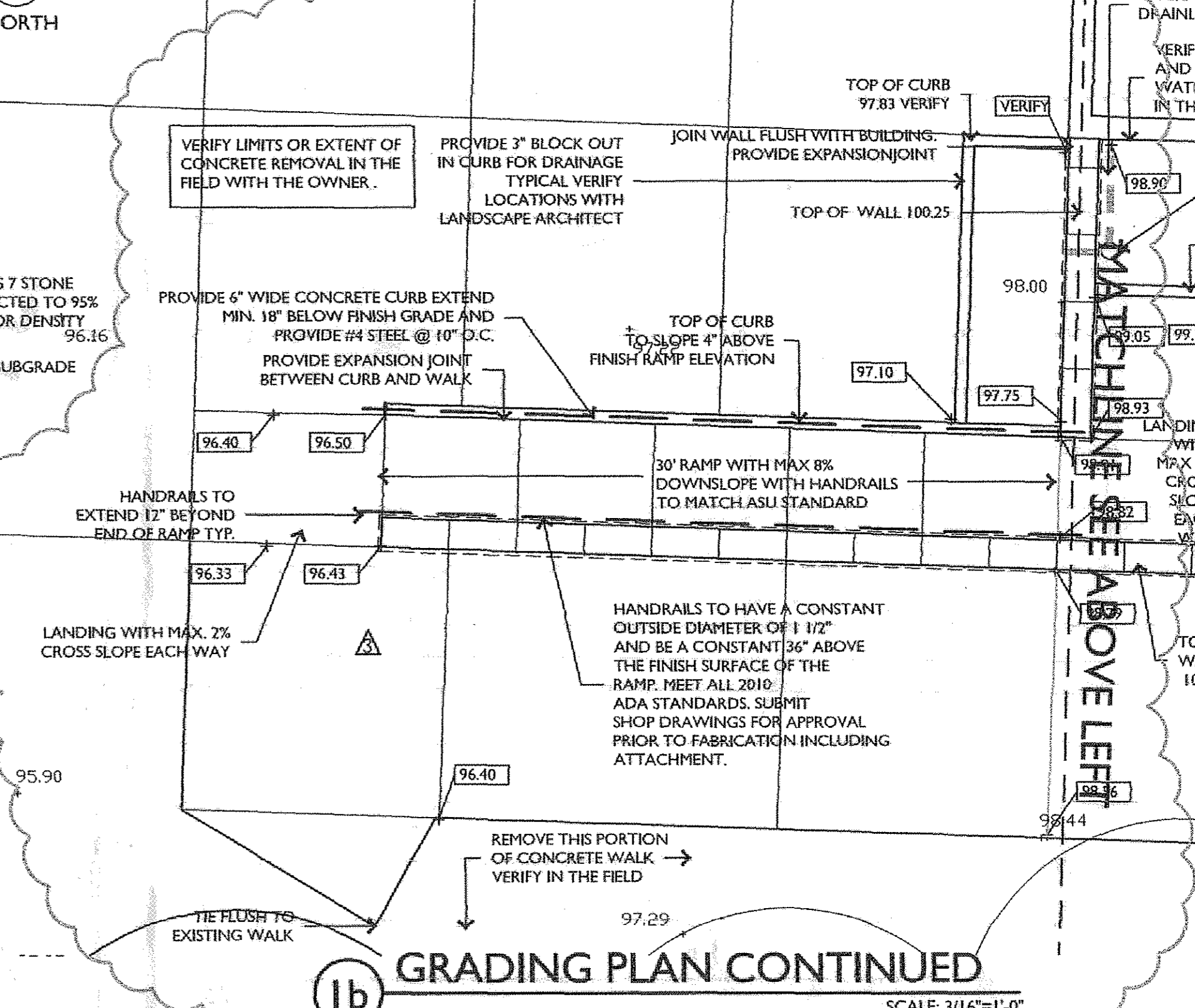
**6 ASU STANDARD PAVER WITH CAST STONE BANDS**  
 NTS



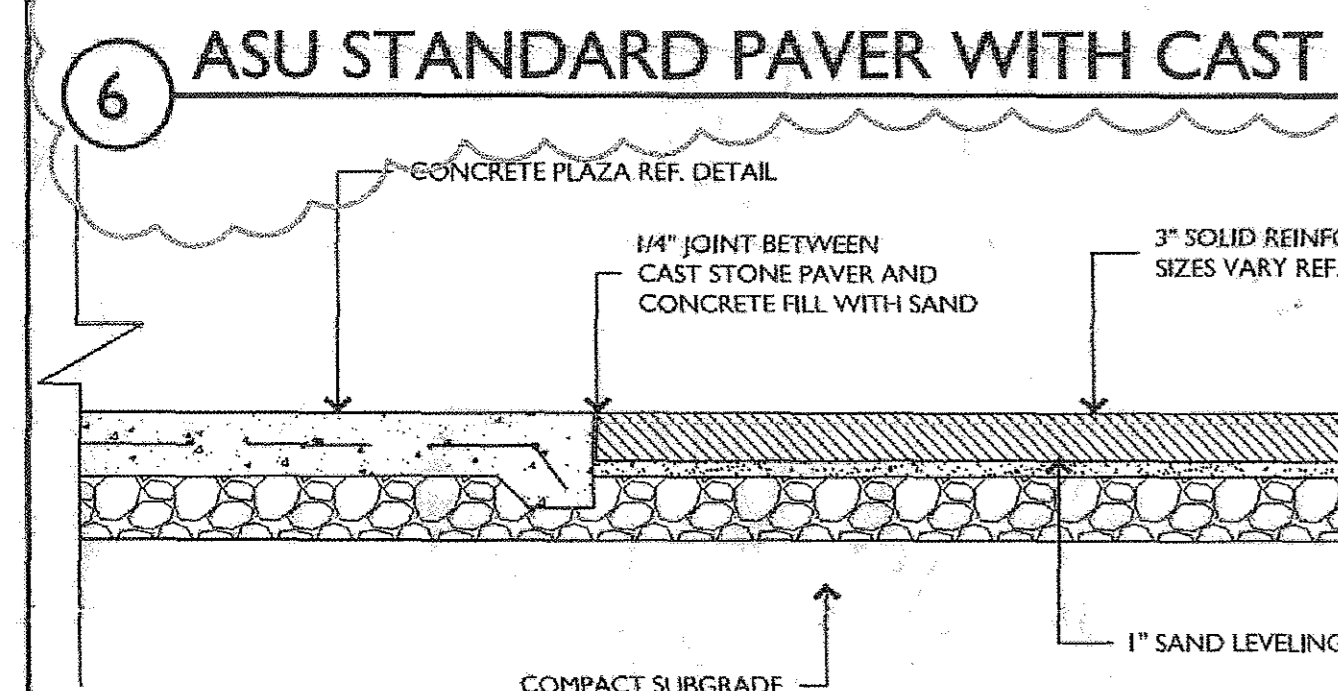
**CONCRETE CURB**



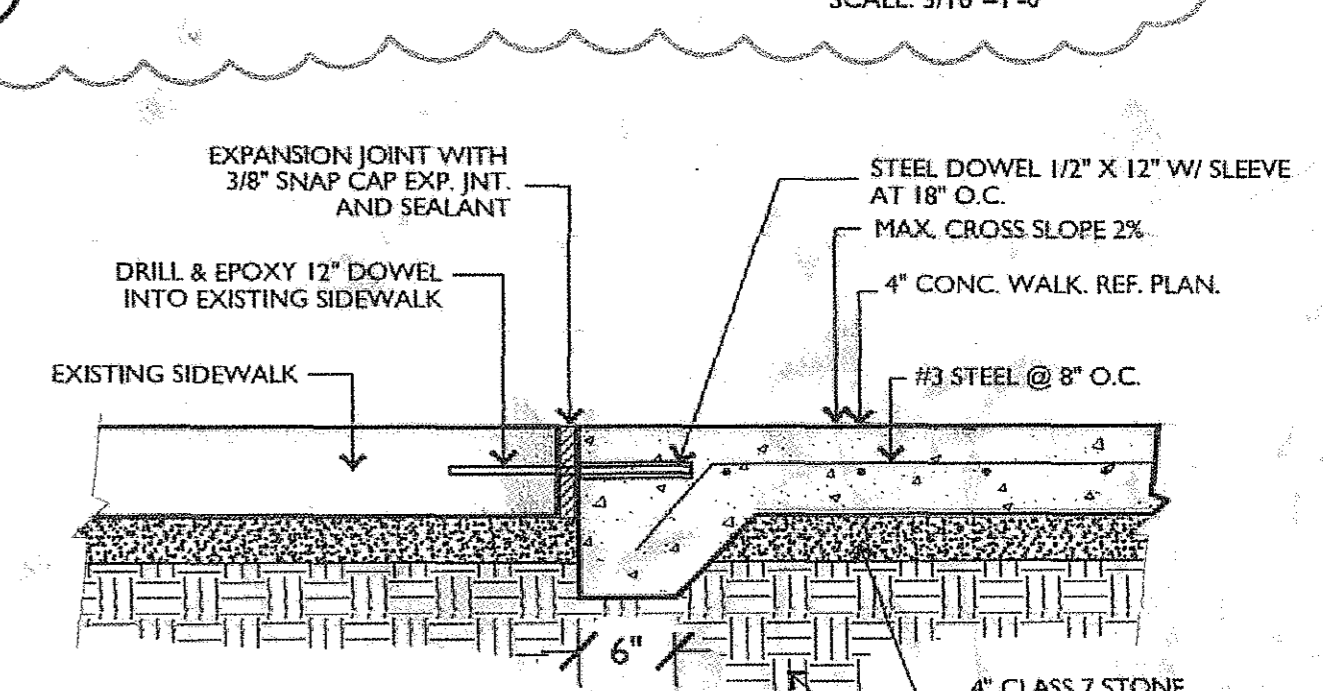
**5 CONCRETE PLAZA AND SIDEWALK DETAILS**  
 NTS



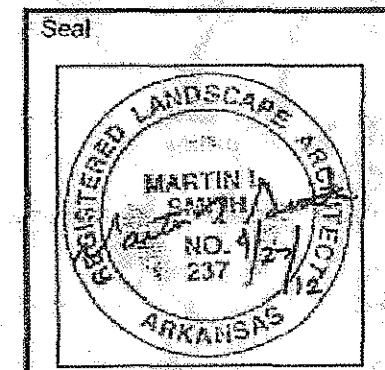
**1b GRADING PLAN CONTINUED**  
 SCALE: 3/16"=1'-0"



**4 CAST STONE PAVERS**  
 NTS



**COLD JOINT**

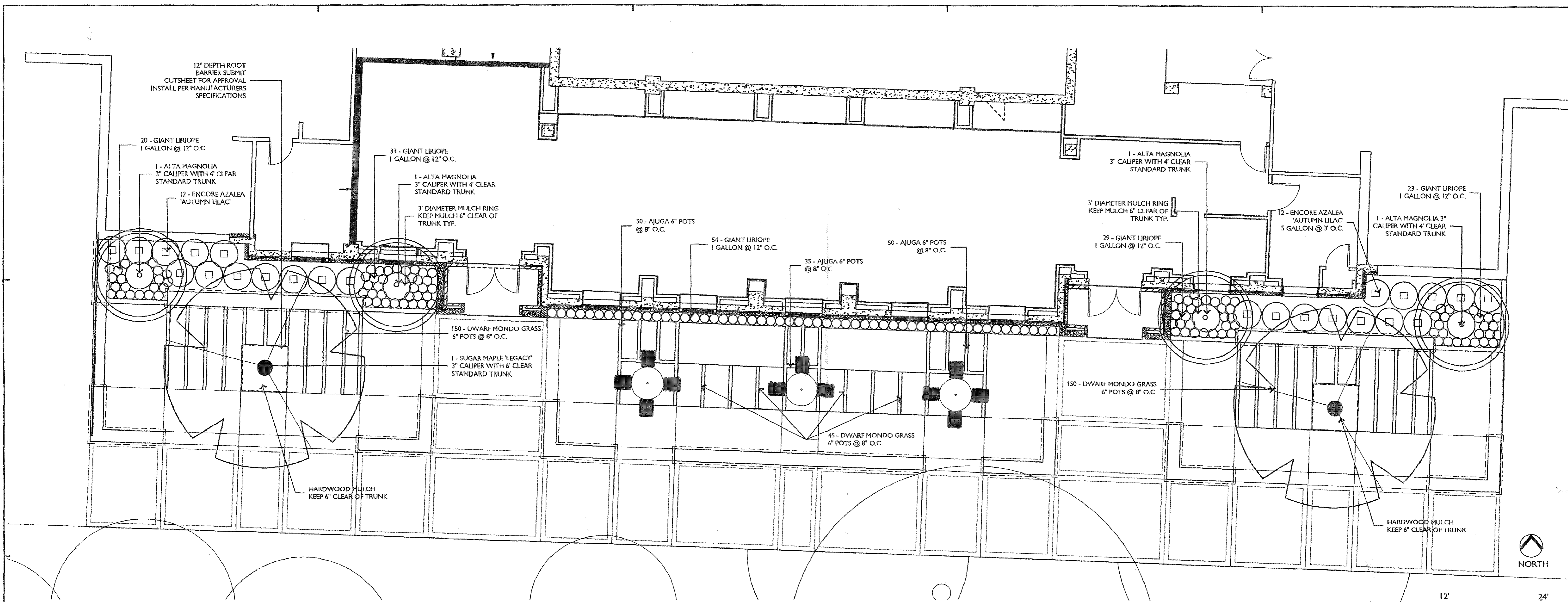


Sheet Name: GRADING PLAN SITEWORK DETAILS  
 Project No: 1210 Date: 04/27/12  
 Sheet No: L300

**L300**

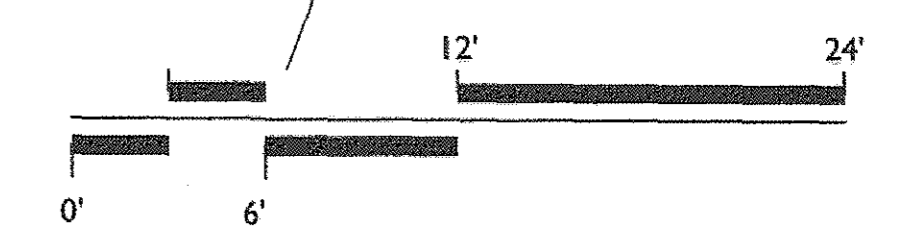
Revisions:

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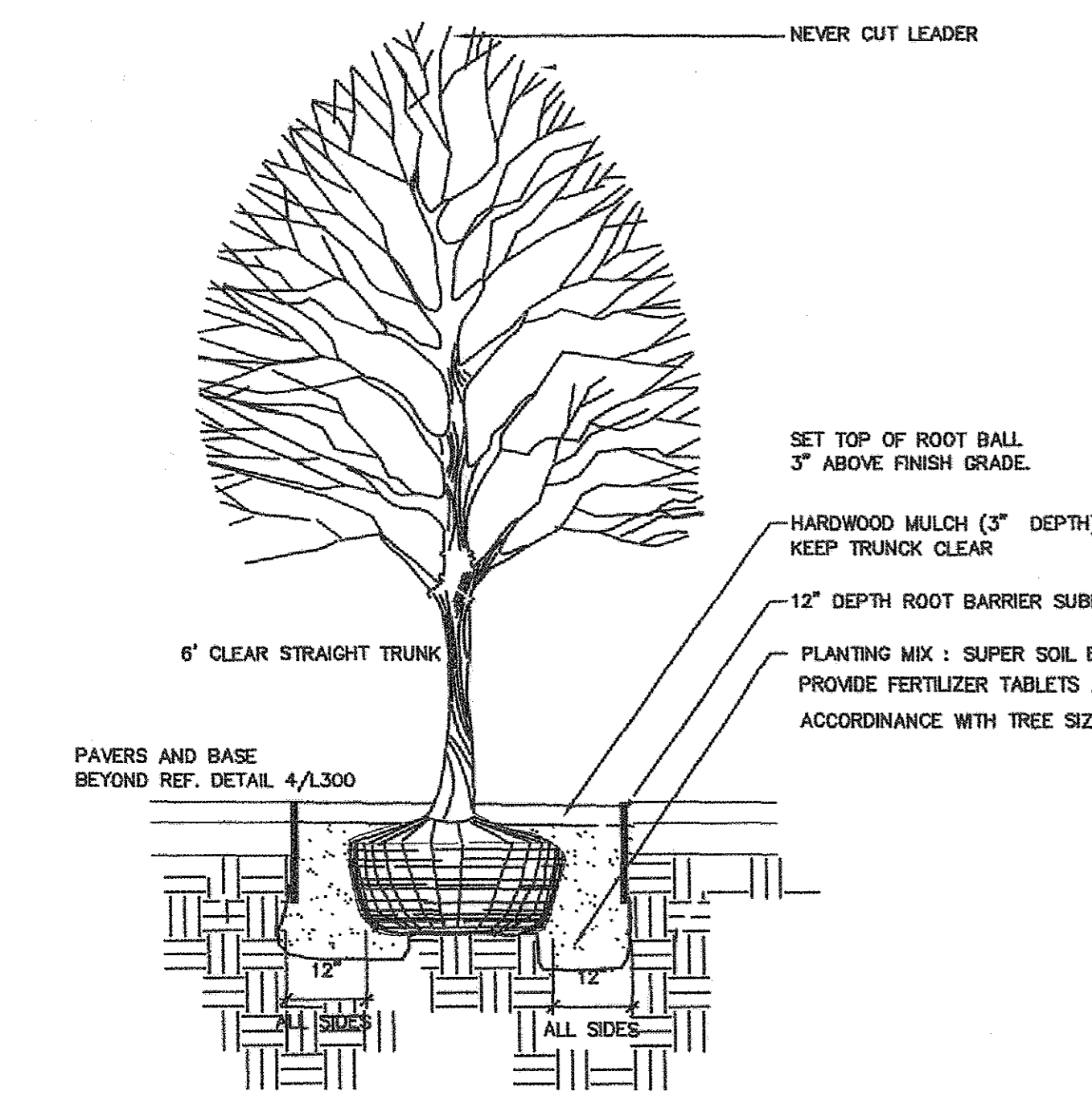


**1 PLANTING PLAN**

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

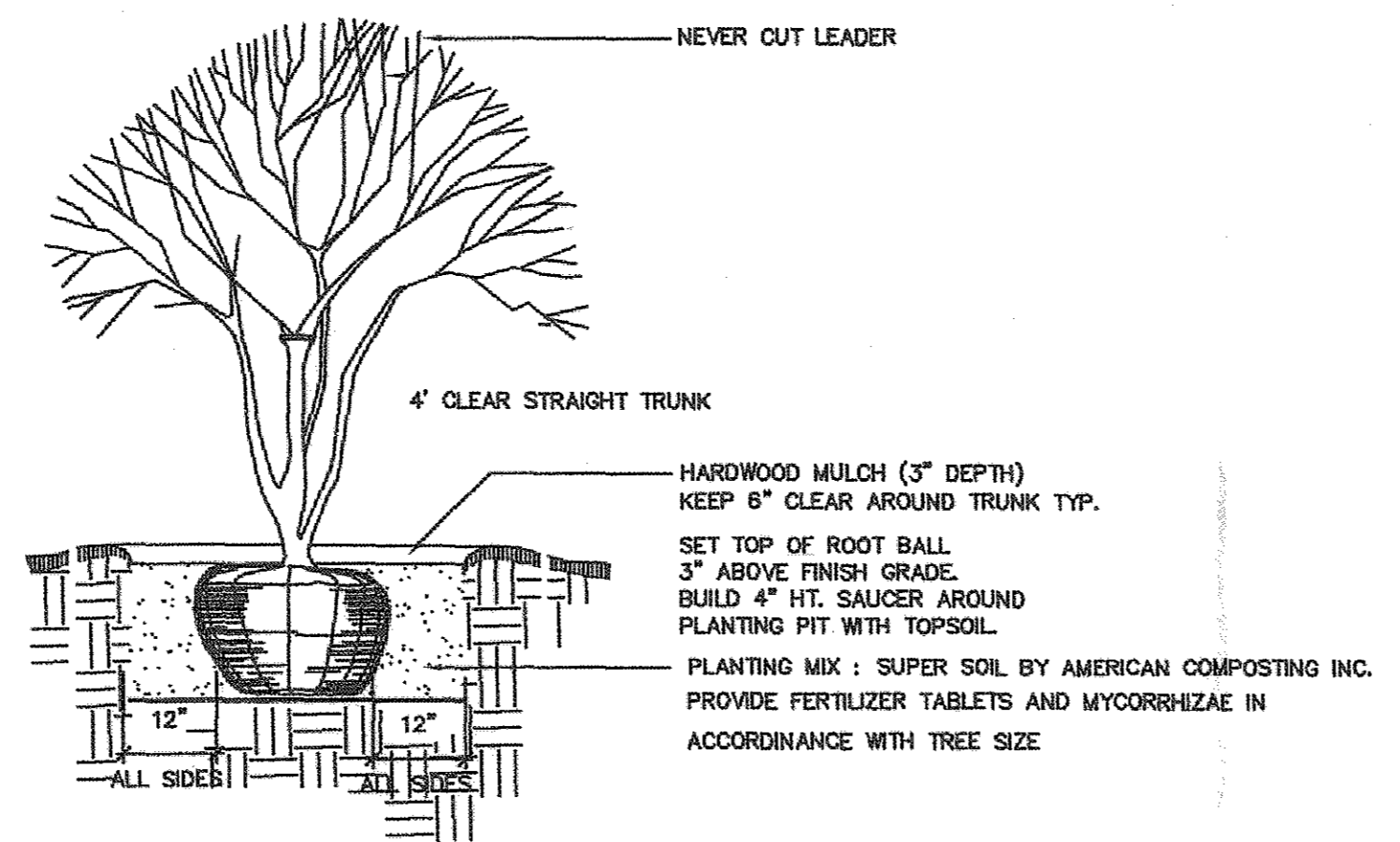


PLANT LIST				
All numbers to be verified by landscape contractor				
Landscape Architect must approve all tree material before planted				
TREES	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION	SPACING
	'ALTA' Magnolia	Magnolia grandiflora 'Alta'	Single-trunk, 10' Ht., 3" Spread,	As Shown
	Sugar Maple	Acer saccharum 'Legacy'	3" caliper, 14' Ht., 4-6' Spread, Standard trunk w/ branches trimmed up 6' Planching Specimens	As Shown
Shrubs - Grasses - Perennials - Groundcovers				
	Dwarf Mondo Grass	Ophiopogon japonicus 'Nana'	6" pots	8"
	Giant Liriope	Liriope muscari 'Evergreen Giant'	1 gallon	12"
	Ajuga	Ajuga reptans 'Vallredde'	6" Pots	8"
	Encore Azalea 'Autumn Lilac's'		5 gallon	3'



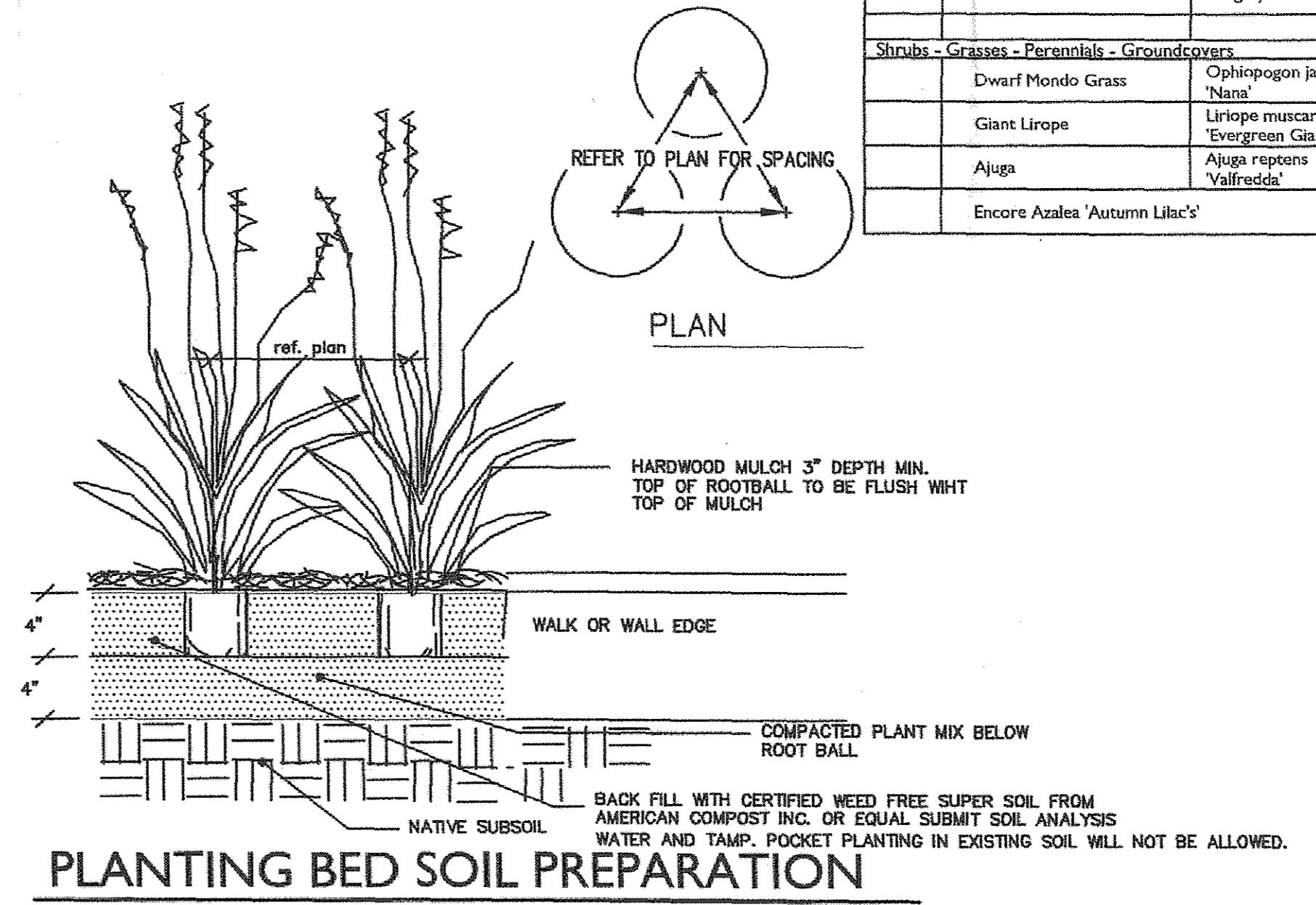
**CANOPY TREE PLANTING**

NTS



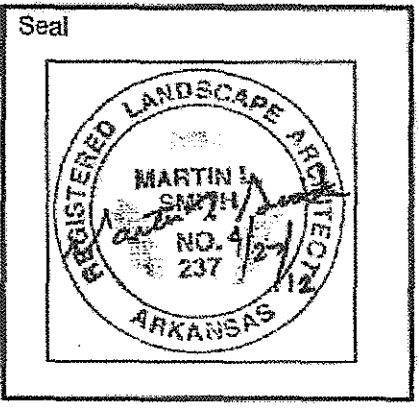
**ORNAMENTAL TREE PLANTING**

NTS



**PLANTING BED SOIL PREPARATION**

**CahoonSteiling Studio**  
 Architecture

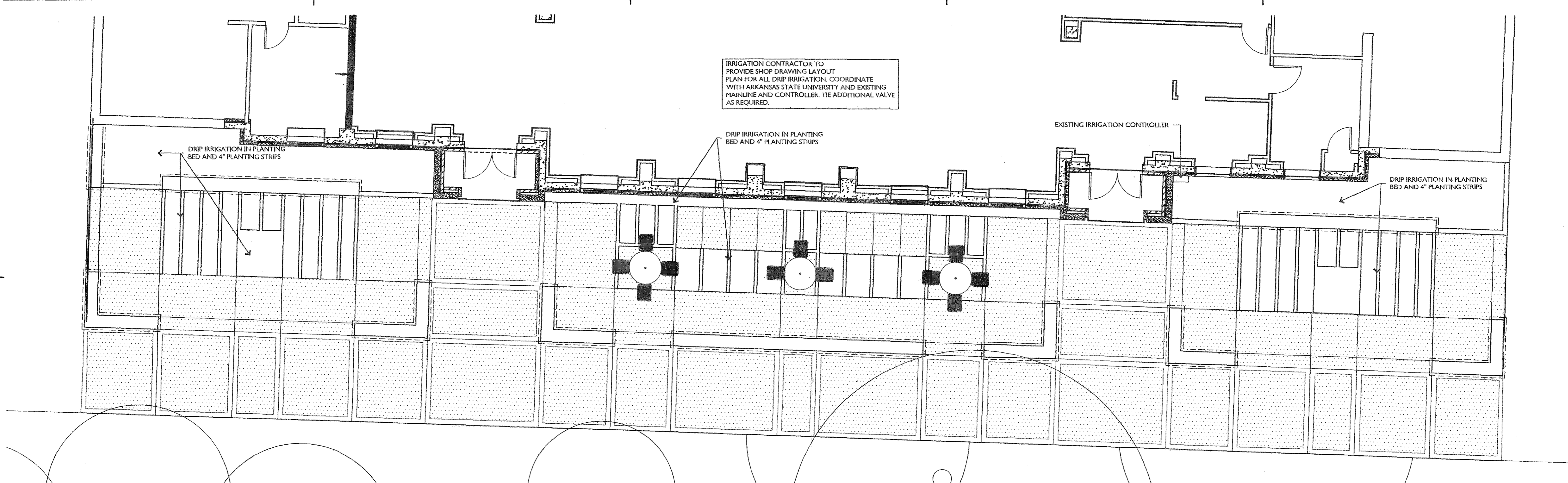


Sheet Name: PLANTING PLAN NOTES AND DETAILS  
 Project No: 1210 Date: 04/27/12  
 Sheet No:

**L400**



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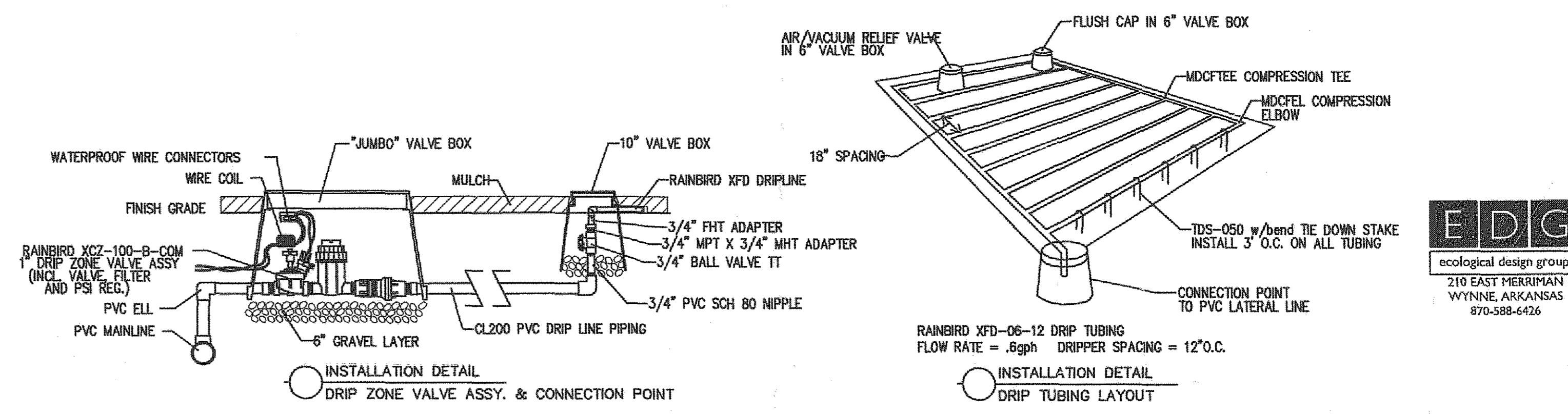
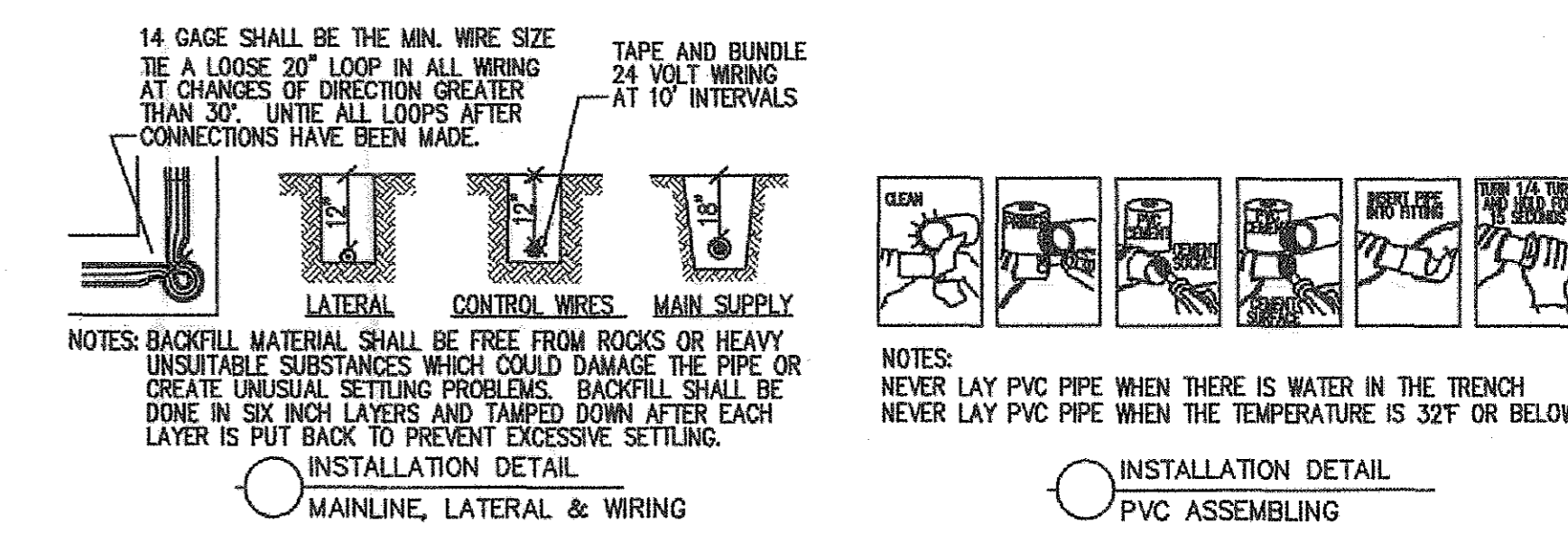
1 IRRIGATION PLAN  
 SCALE: 3/16"=1'-0"

**GENERAL NOTES**

- IRRIGATION CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS.
- IRRIGATION CONTRACTOR SHALL VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 70psi WITH A FLOW RATE OF 25gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. IRRIGATION CONTRACTOR SHALL NOTIFY ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
- COORDINATE EXACT LOCATION OF POINT-OF-CONNECTION TO EXISTING MAIN LINE WITH ARKANSAS STATE UNIVERSITY AND THE LANDSCAPE ARCHITECT IN THE FIELD.
- COORDINATE EXACT LOCATION OF CONTROLLER AND SENSORS WITH THE ARCHITECT AND GENERAL CONTRACTOR. IRRIGATION CONTRACTOR TO PROVIDE LAYOUT PLANS FOR REVIEW.
- WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACT OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.
- IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND BELOW GROUND) DURING THE IRRIGATION INSTALLATION. IRRIGATION CONTRACTOR SHALL SEEK THE ASSISTANCE OF LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORK AREA.
- THE IRRIGATION DESIGN IS DIAGRAMMATIC. THE INTENT OF THE DRAWINGS IS TO SHOWN THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS MAY NOT BE ACCURATE. ACTUAL LOCATIONS AND QUANTITIES OF PIPE AND FITTINGS MAY VARY DUE TO FIELD ADJUSTMENTS FOR EXISTING CONDITIONS AND OTHER OBSTRUCTIONS TO PROVIDE THE PROPER AND INTENDED COVERAGE.
- WINTERIZATION SHALL BE DONE BY "AIR BLOW OUT" METHOD. PROVIDE PIPE HEATING CABLE TO PROTECT BACKFLOW PREVENTER FROM FREEZING.

**SLEEVING NOTES**

- ALL SLEEVING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE SLEEVING LOCATION IN THE FIELD ONCE EXISTING MAINLINE LOCATION IS DETERMINED.
- ALL SLEEVING PROVIDED FOR THE IRRIGATION SYSTEM TO BE SCH40 PVC.
- ALL SLEEVING TO BE BURIED A MIN. OF 18" AND A MAX. OF 24" BELOW THE FINISHED GRADE. ENDS OF SLEEVES SHALL EXTEND 12" PAST THE EDGES OF ALL PAVING AND CURBS AND BE CLEARLY MARKED FOR FUTURE USE BY THE SPRINKLER SYSTEM CONTRACTOR.

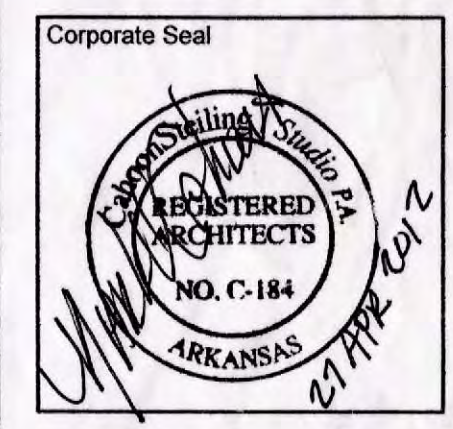


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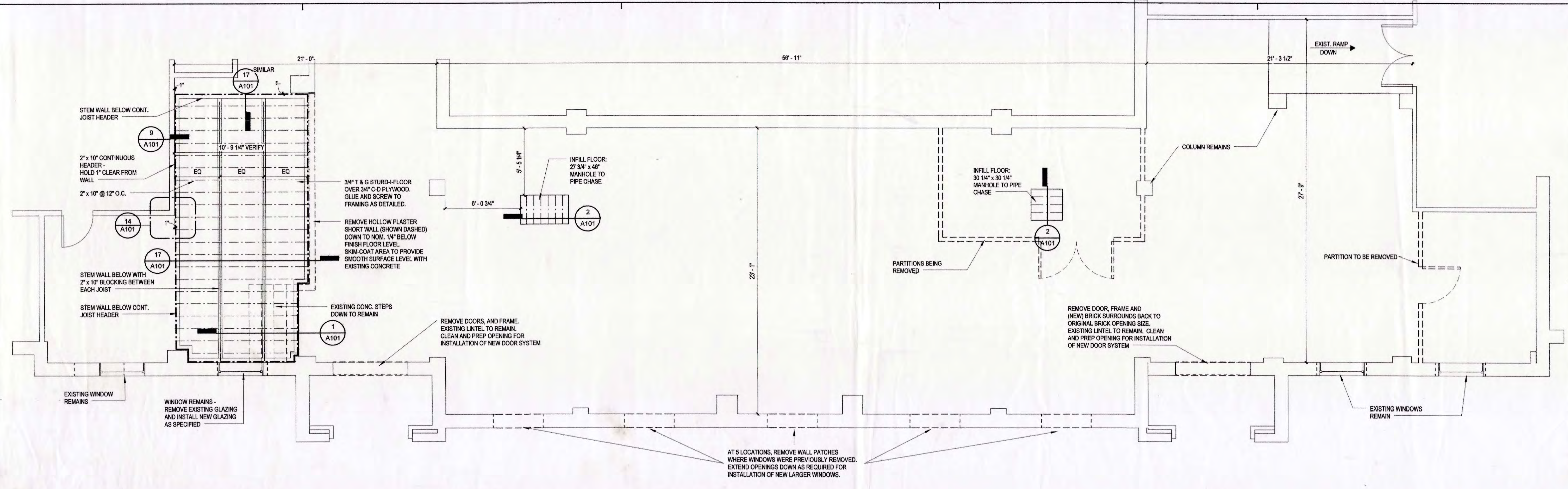
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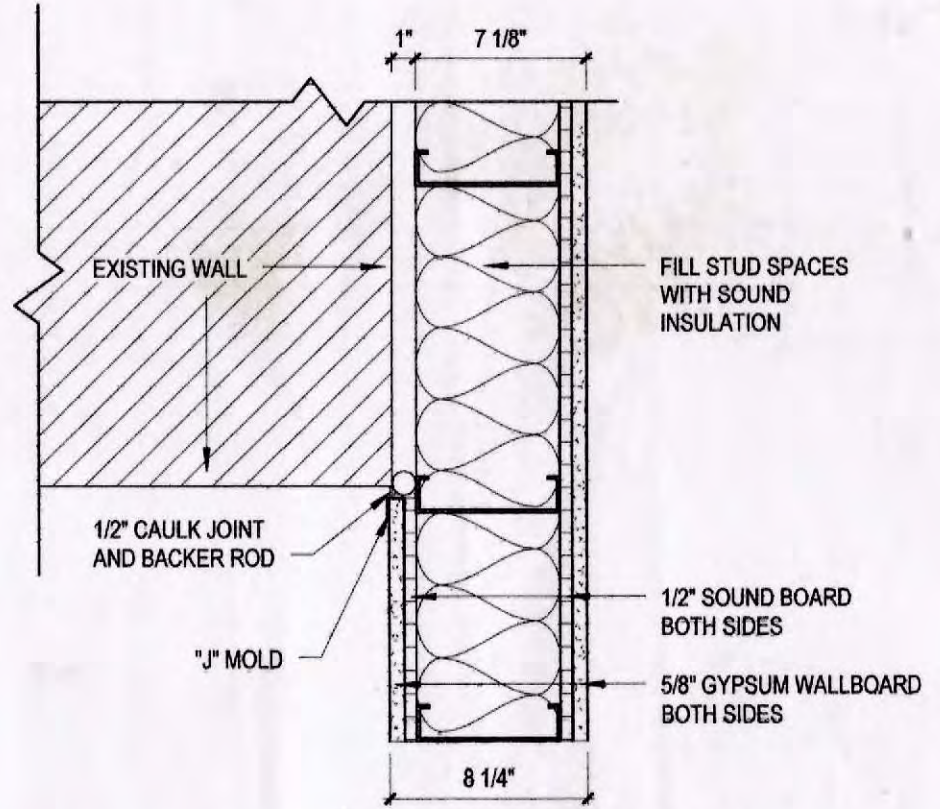


Sheet Name:  
 DEMOLITION PLAN AND NEW FLOOR FRAMING  
 Project No: 1210 Date: 04/27/12  
 Sheet No:

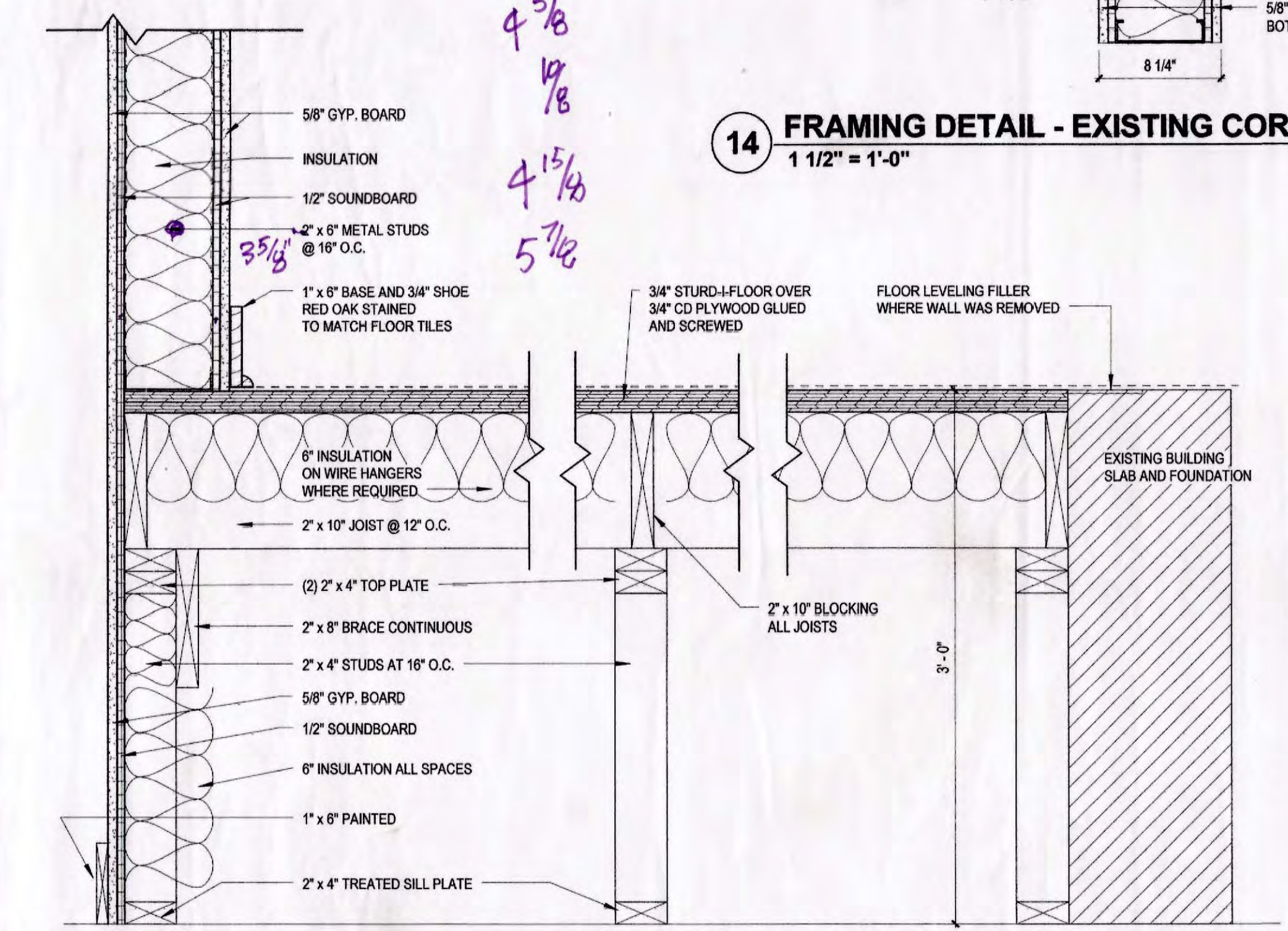
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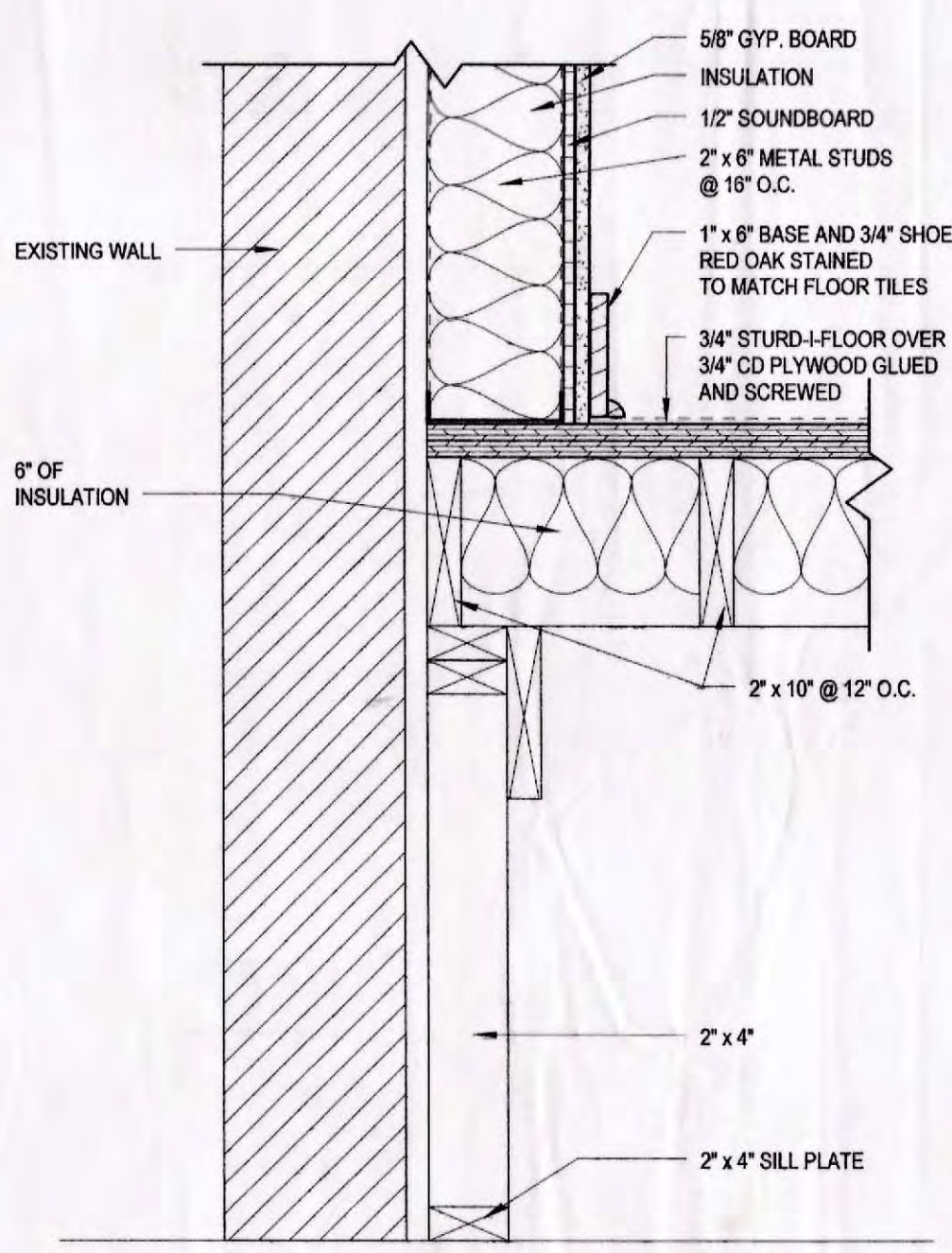
**18 DEMOLITION AND NEW FRAMING PLAN**  
 1/4" = 1'-0"



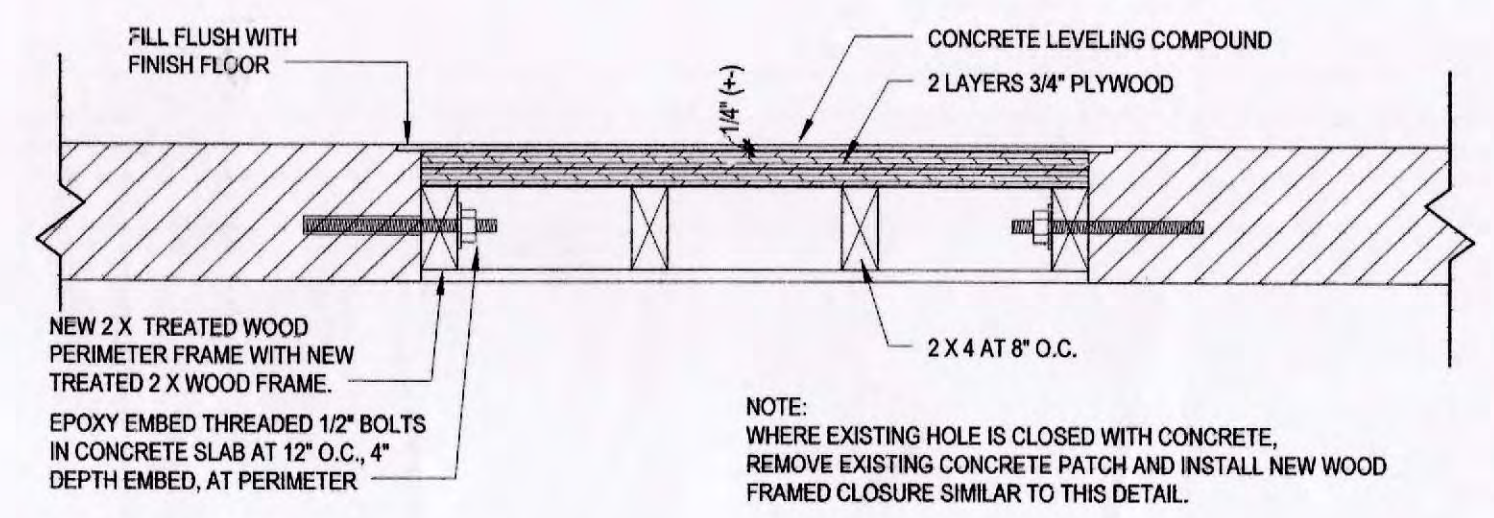
**14 FRAMING DETAIL - EXISTING CORNER**  
 1 1/2" = 1'-0"



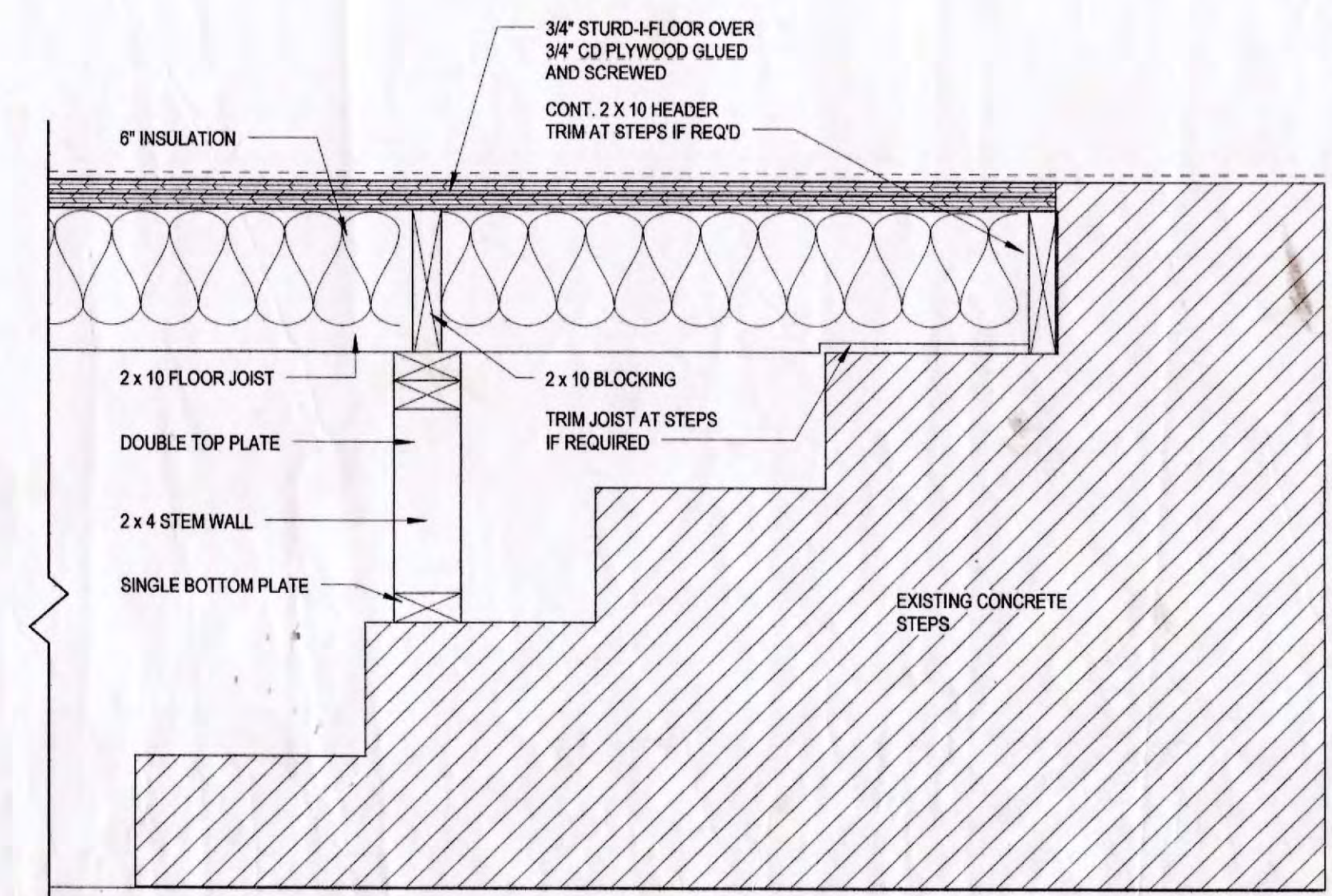
**17 FRAMING DETAIL**  
 1 1/2" = 1'-0"



**9 FRAMING DETAIL 2**  
 1 1/2" = 1'-0"

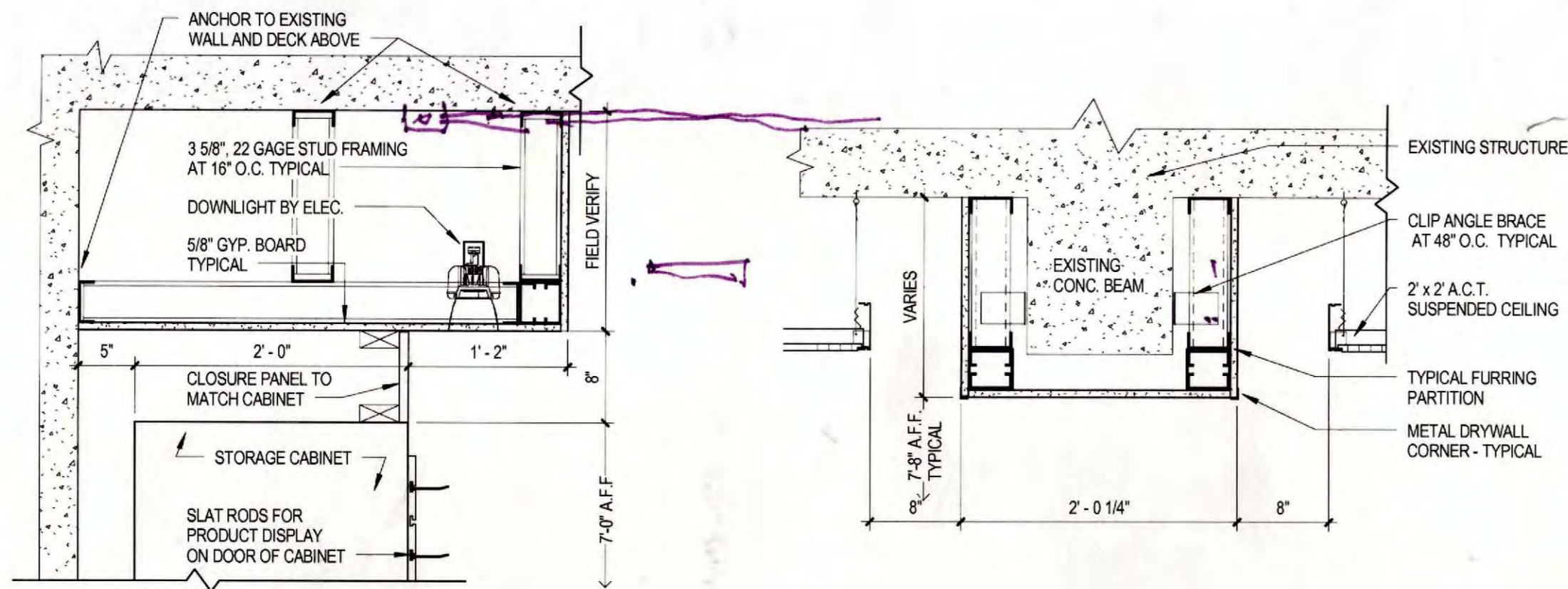


**2 TRENCH ACCESS HOLE CLOSURE**  
 1 1/2" = 1'-0"



**1 FRAMING DETAIL STAIRS**  
 1 1/2" = 1'-0"





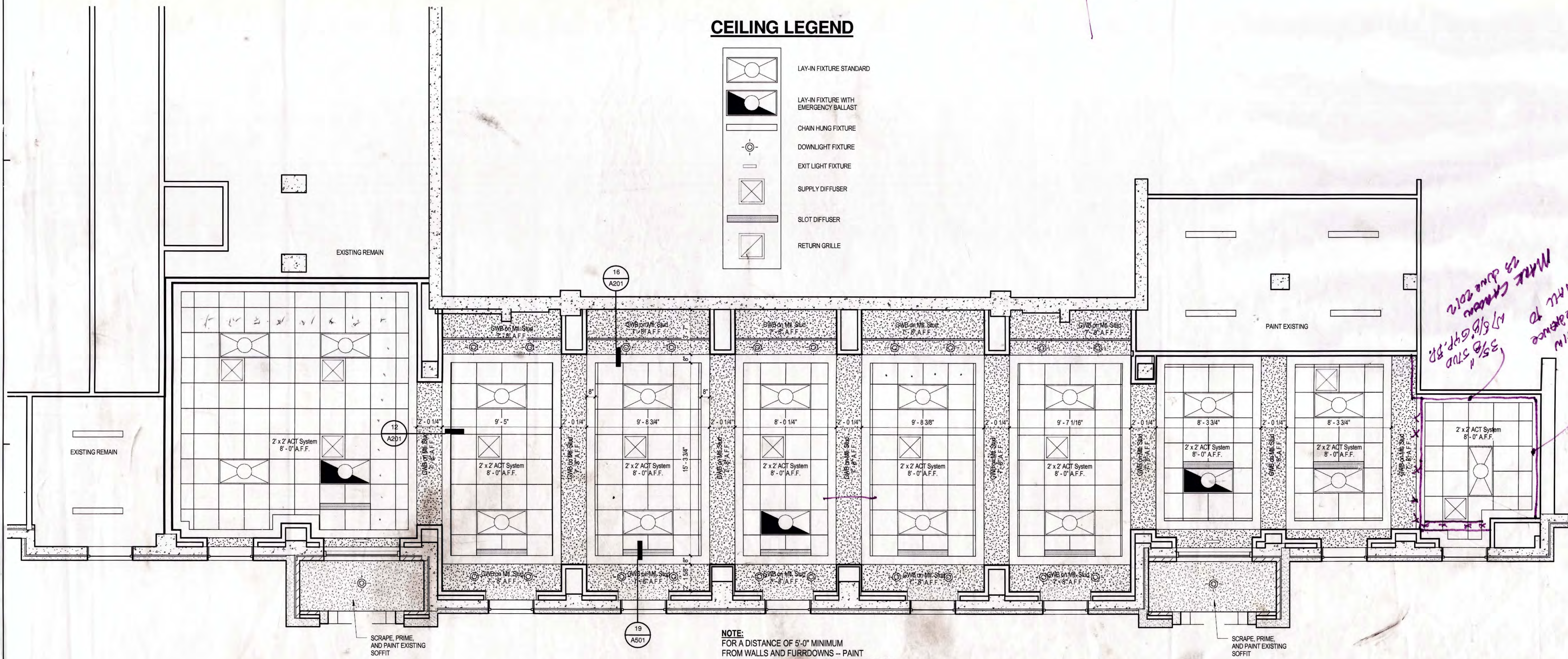
16 FURRDOWN @ CABINETS  
1" = 1'-0"

12 FURR DOWN / BEAM (EXISTING)  
1" = 1'-0"

103/2

**CEILING LEGEND**

- LAY-IN FIXTURE STANDARD
- LAY-IN FIXTURE WITH EMERGENCY BALLAST
- CHAIN HUNG FIXTURE
- DOWNLIGHT FIXTURE
- EXIT LIGHT FIXTURE
- SUPPLY DIFFUSER
- SLOT DIFFUSER
- RETURN GRILLE



*MAXIMUM 3 5/8\"/>*

**NOTE:**  
FOR A DISTANCE OF 5'-0" MINIMUM FROM WALLS AND FURRDOWNS -- PAINT ALL STRUCTURE, DUCTWORK, PIPING, CONDUITS, AND ANY OTHER ITEMS LOCATED ABOVE THE SUSPENDED CEILINGS AND OPEN SLOTS SURROUNDING THE CEILINGS -- COLOR TO BE FLAT BLACK.

19 REFLECTED CEILING PLAN  
1/4" = 1'-0"

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Corporate Seal

Sheet Name:  
REFLECTED CEILING PLAN  
Project No: 1224 Date: 04/27/12

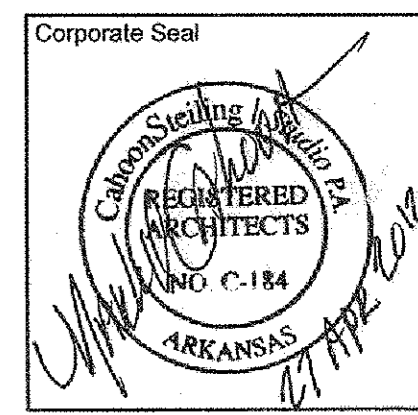
A201

Revisions:

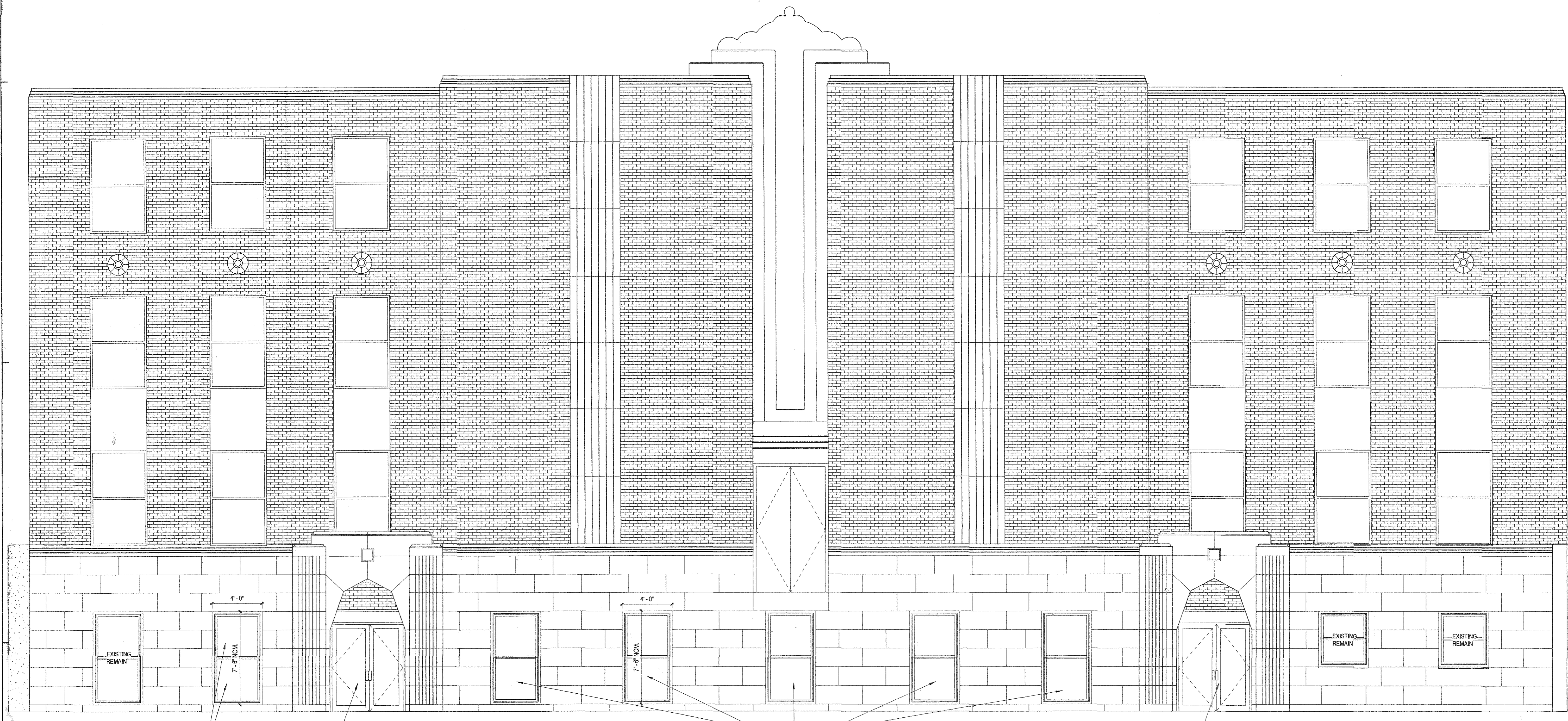
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Sheet Name: EXTERIOR ELEVATIONS	
Project No: 1210	Date: 04/27/12
Sheet No: <b>A401</b>	



THIS UNIT ONLY--  
REPLACE EXISTING INSUL. OBSCURE  
GLASS WITH CLEAR INSUL. LOW E GLASS  
--VERIFY AND MATCH GLASS THICKNESS

NEW ALUMINUM  
STOREFRONT ENTRANCE

5 NEW WINDOW UNITS

NEW ALUMINUM  
STOREFRONT ENTRANCE

17 EXTERIOR ELEVATION  
1/4" = 1'-0"

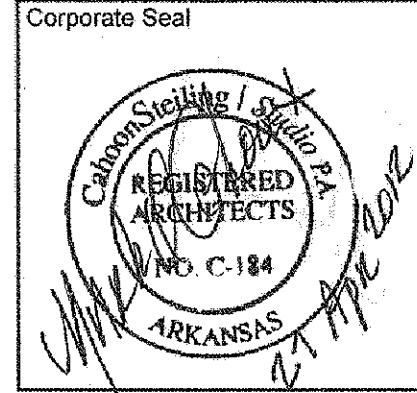


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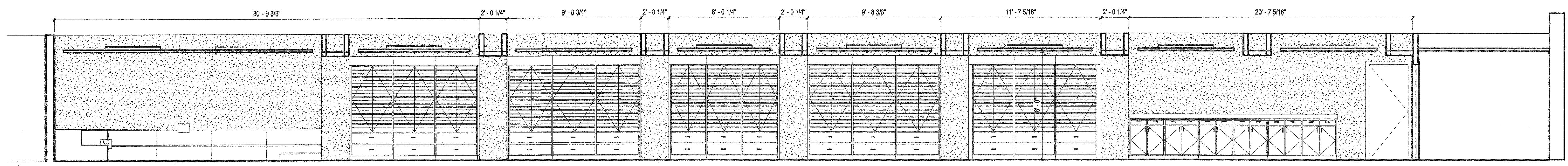
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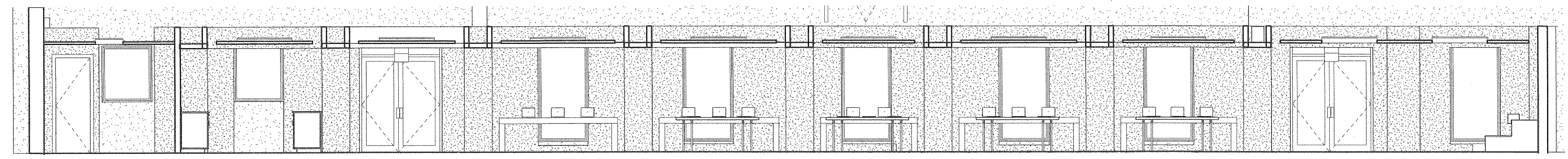


Sheet Name:  
 BUILDING SECTIONS AND  
 DETAILS  
 Project No: 1210 Date: 04/27/12  
 Sheet No:

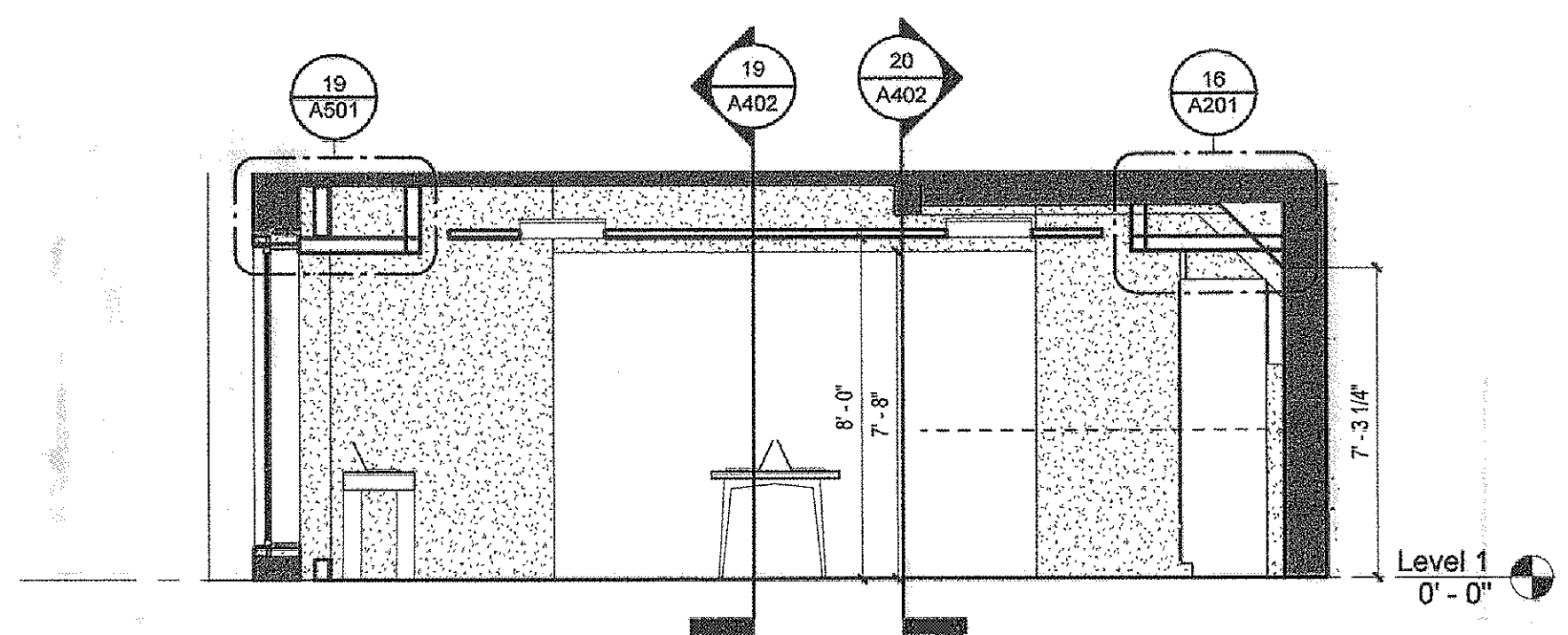
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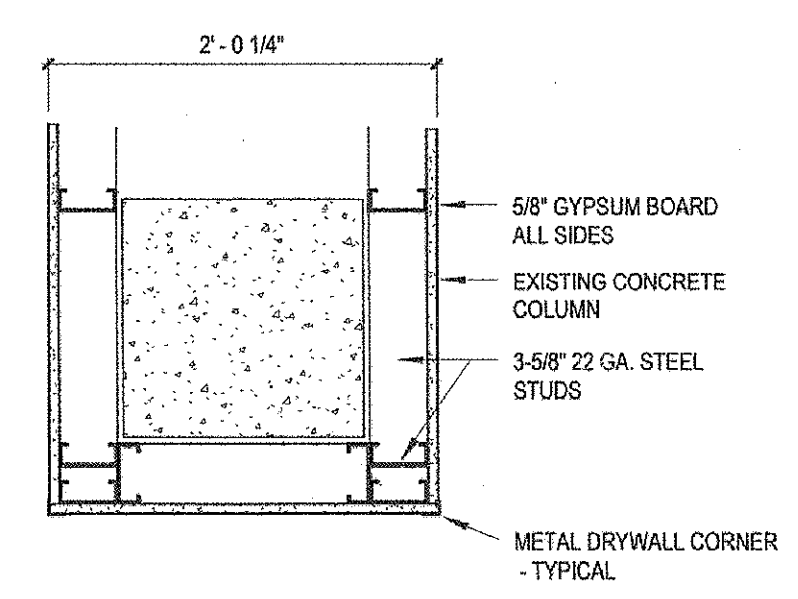
**20 SECTION - NORTH VIEW**  
 1/4" = 1'-0"



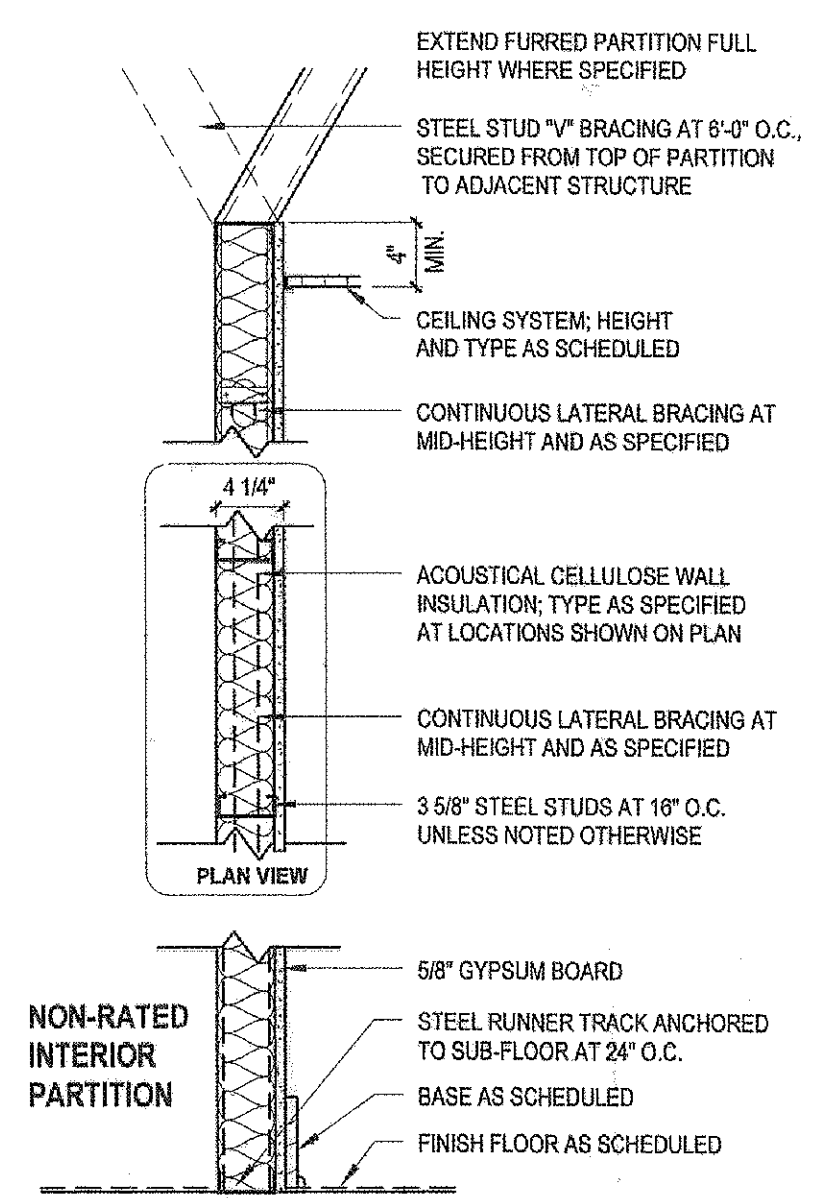
**19 SECTION - SOUTH VIEW**  
 1/4" = 1'-0"



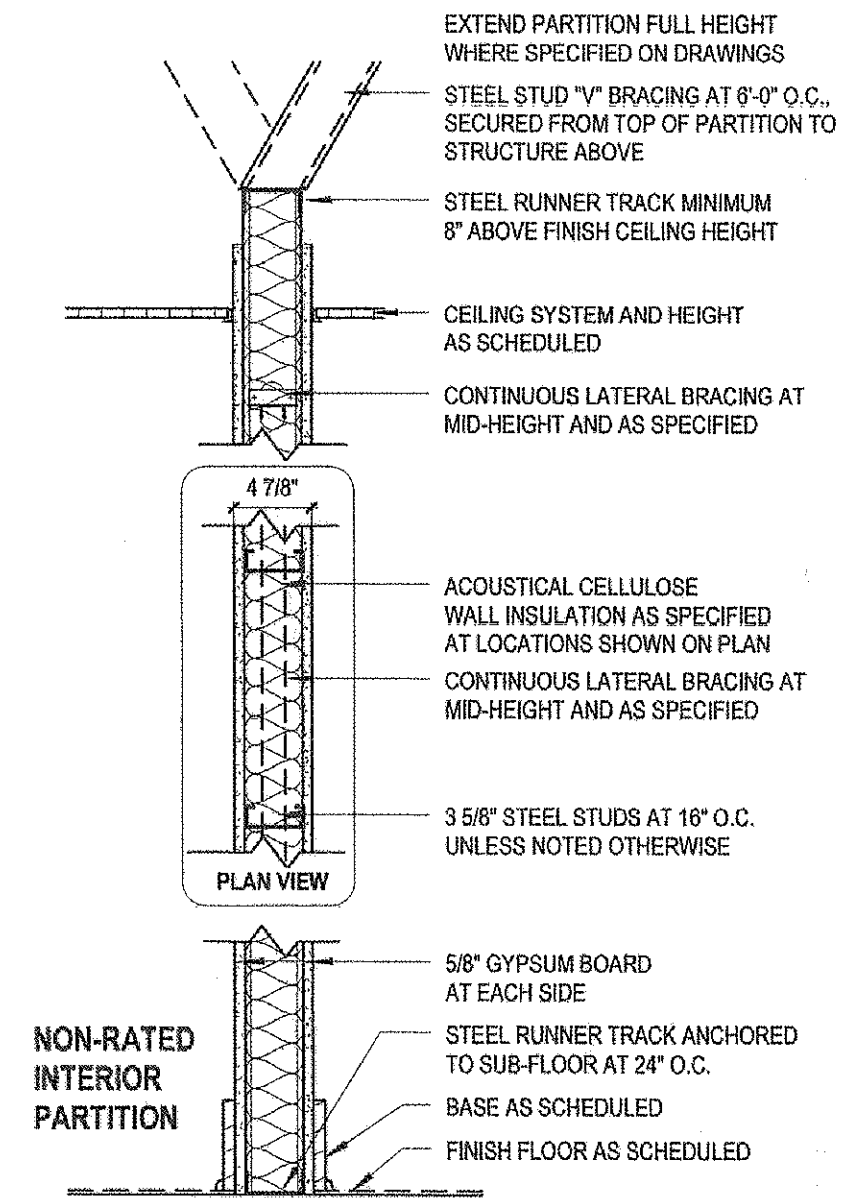
**18 CROSS-SECTION - WEST VIEW**  
 1/4" = 1'-0"



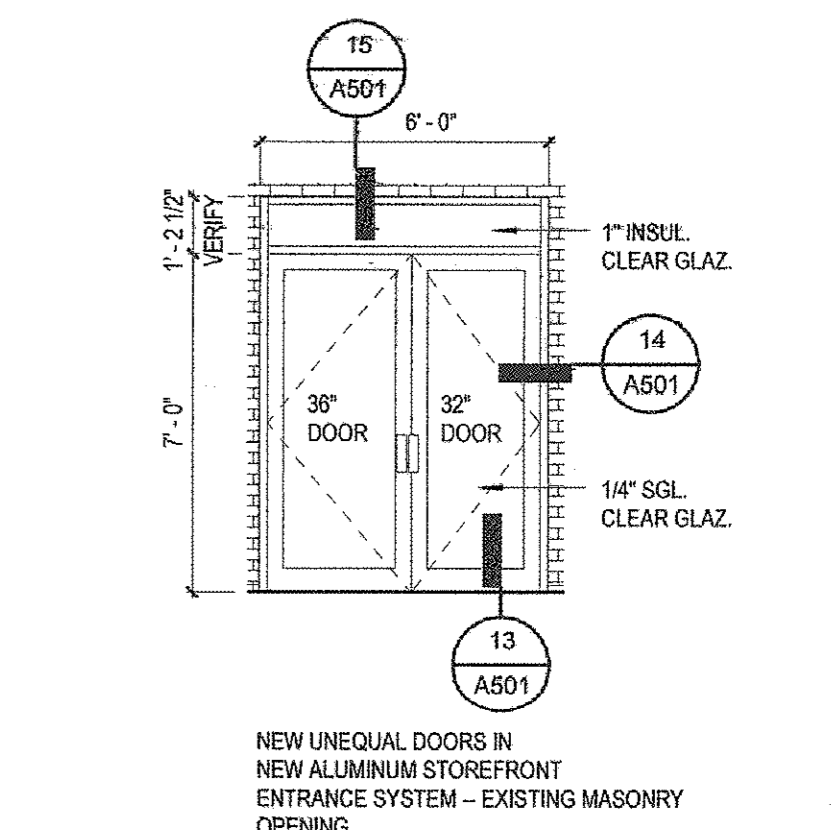
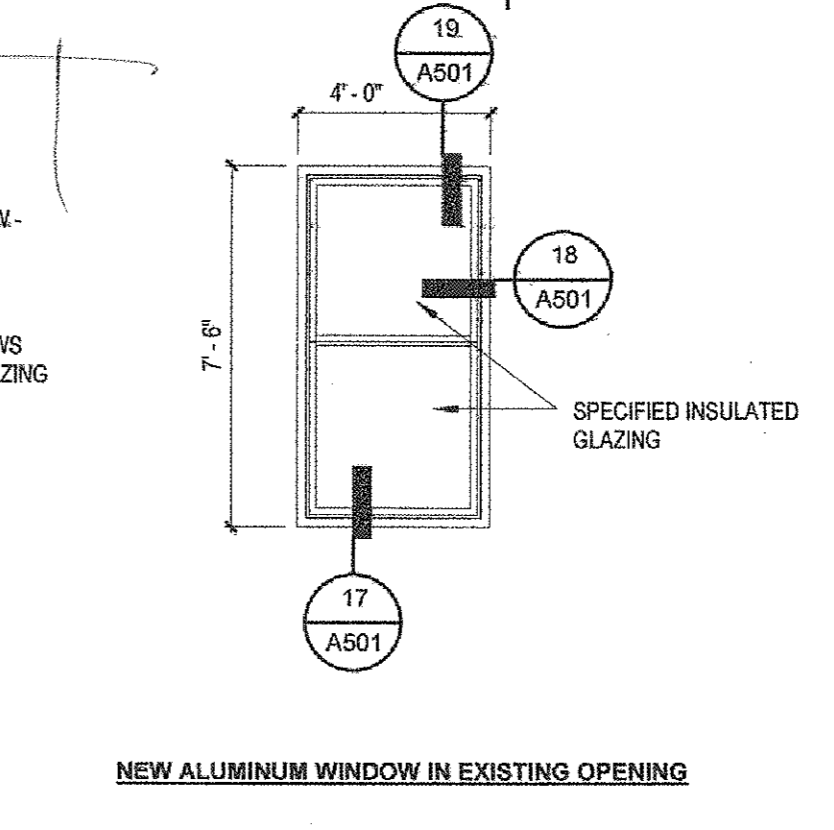
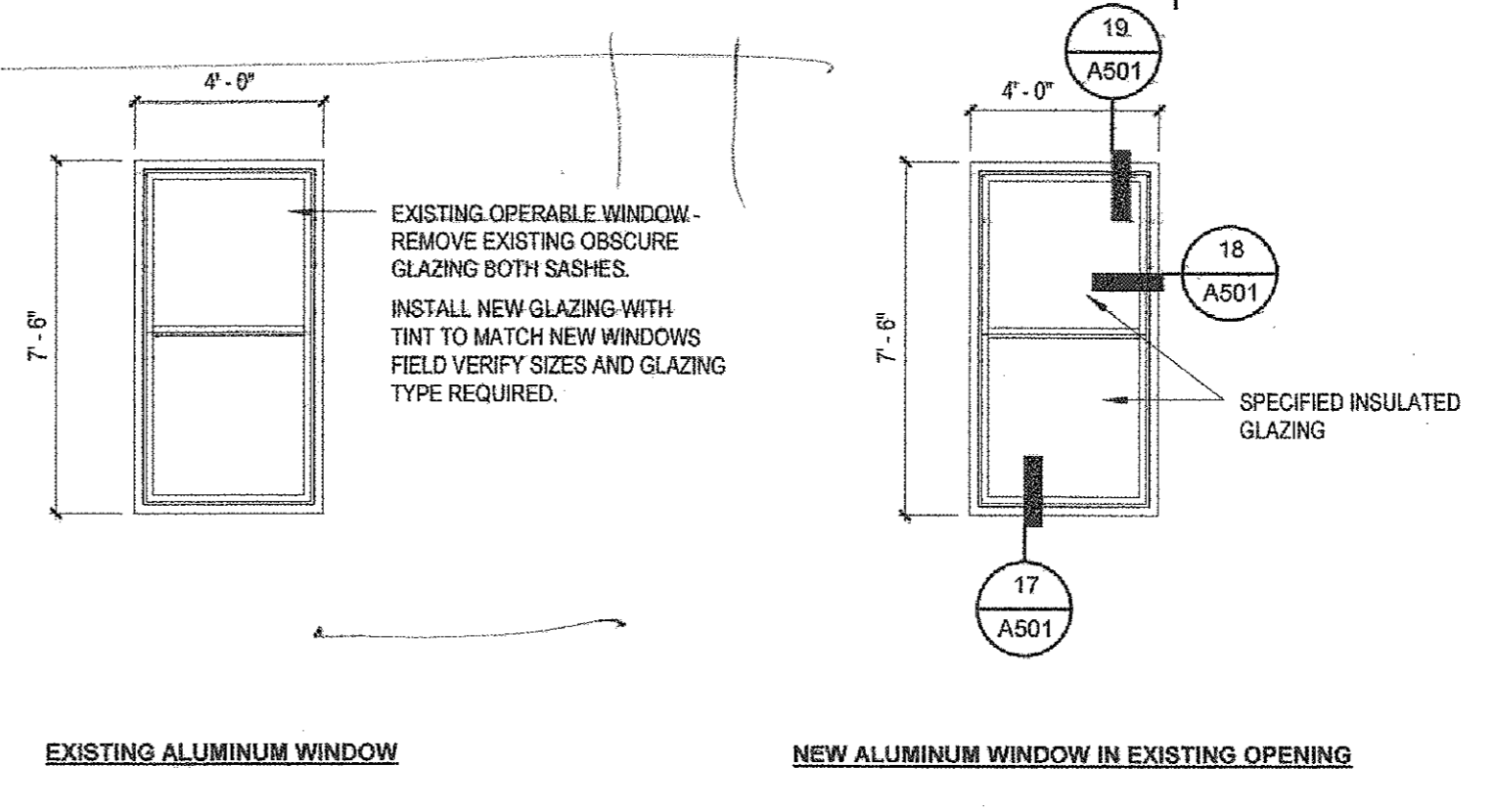
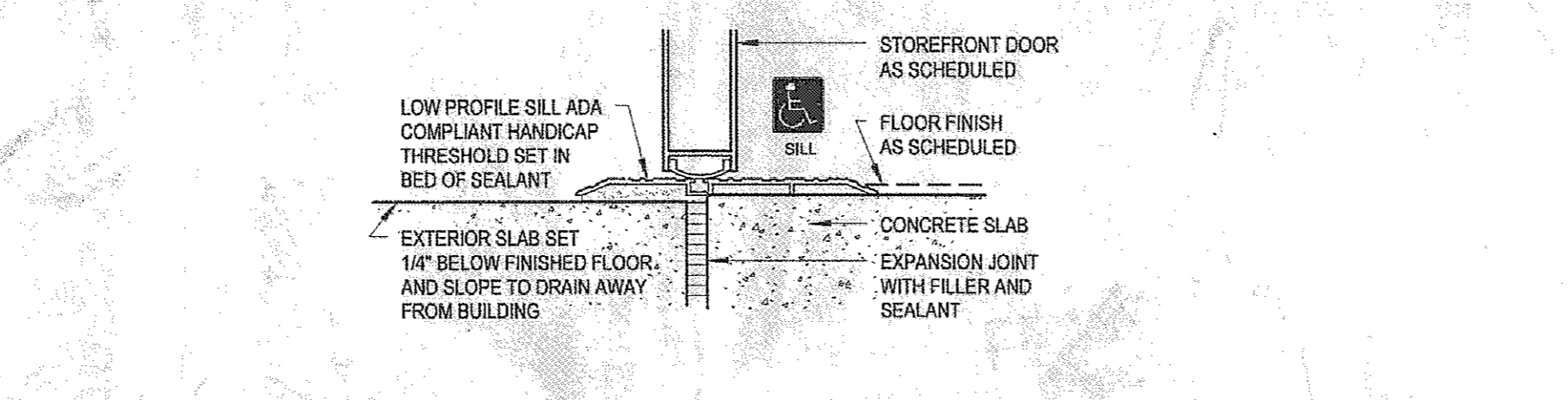
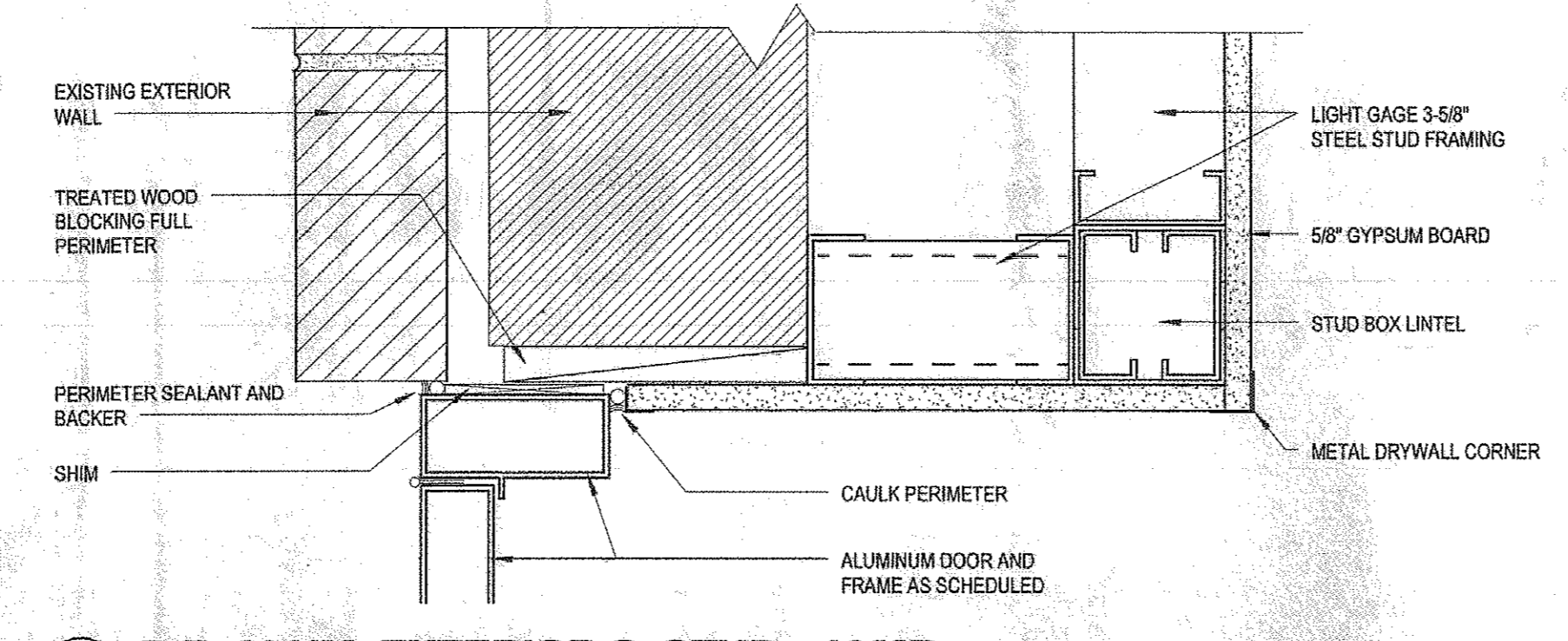
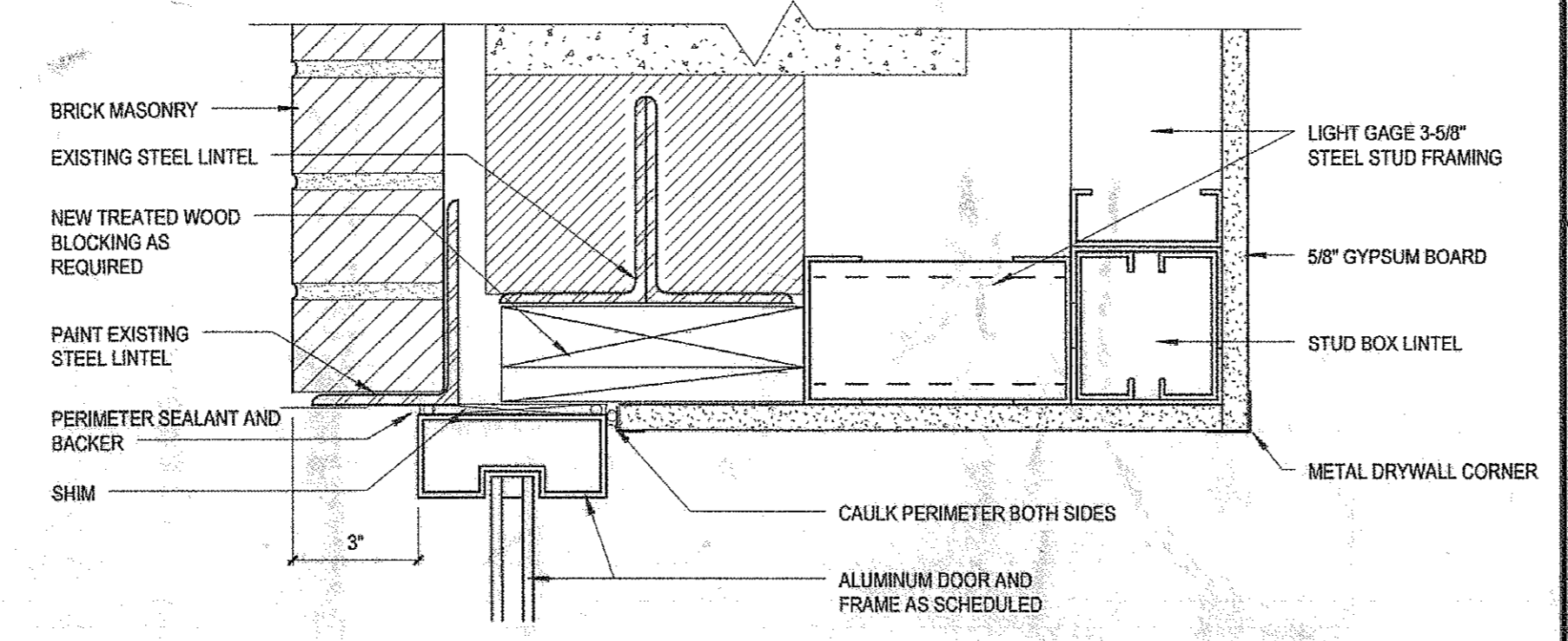
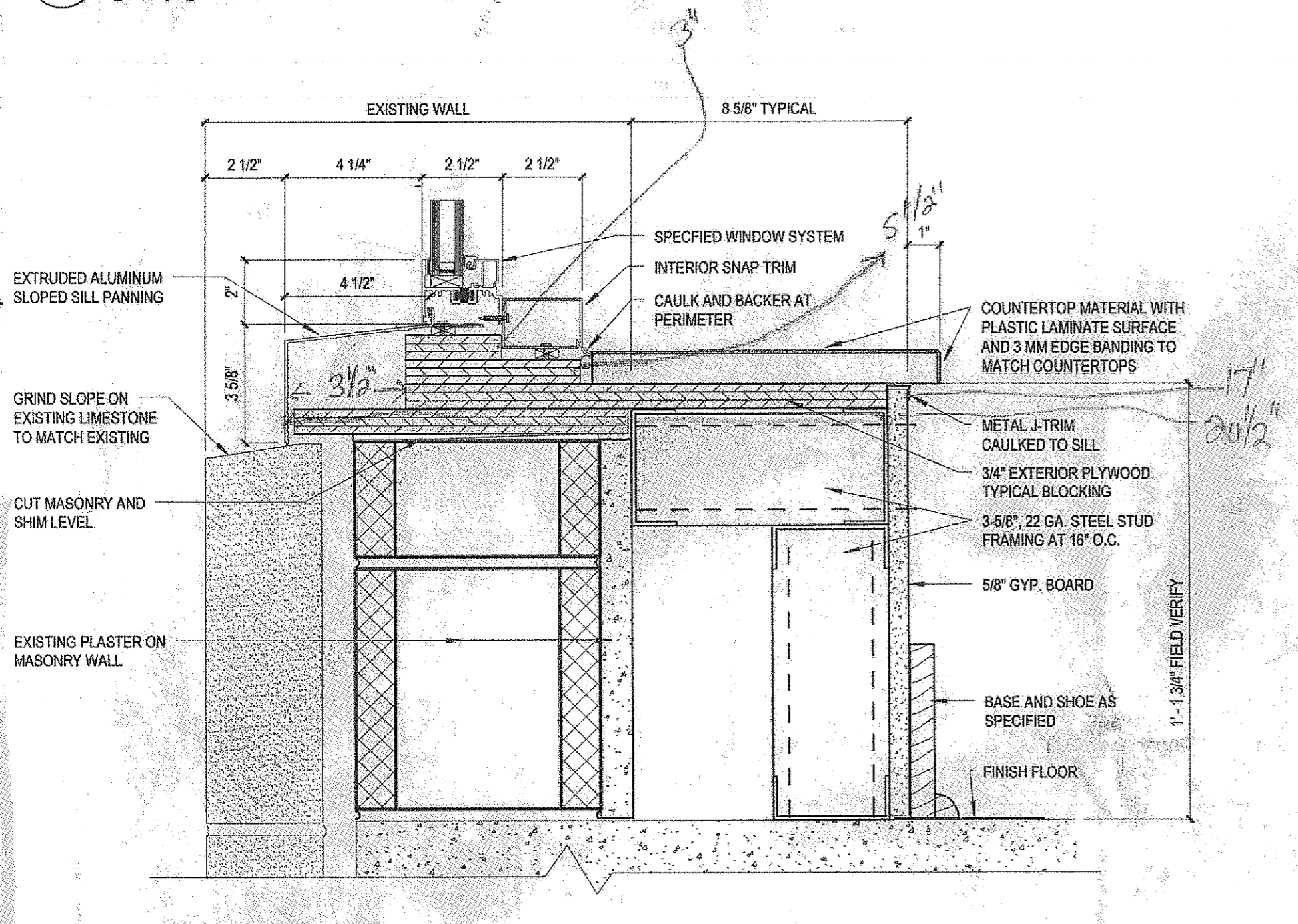
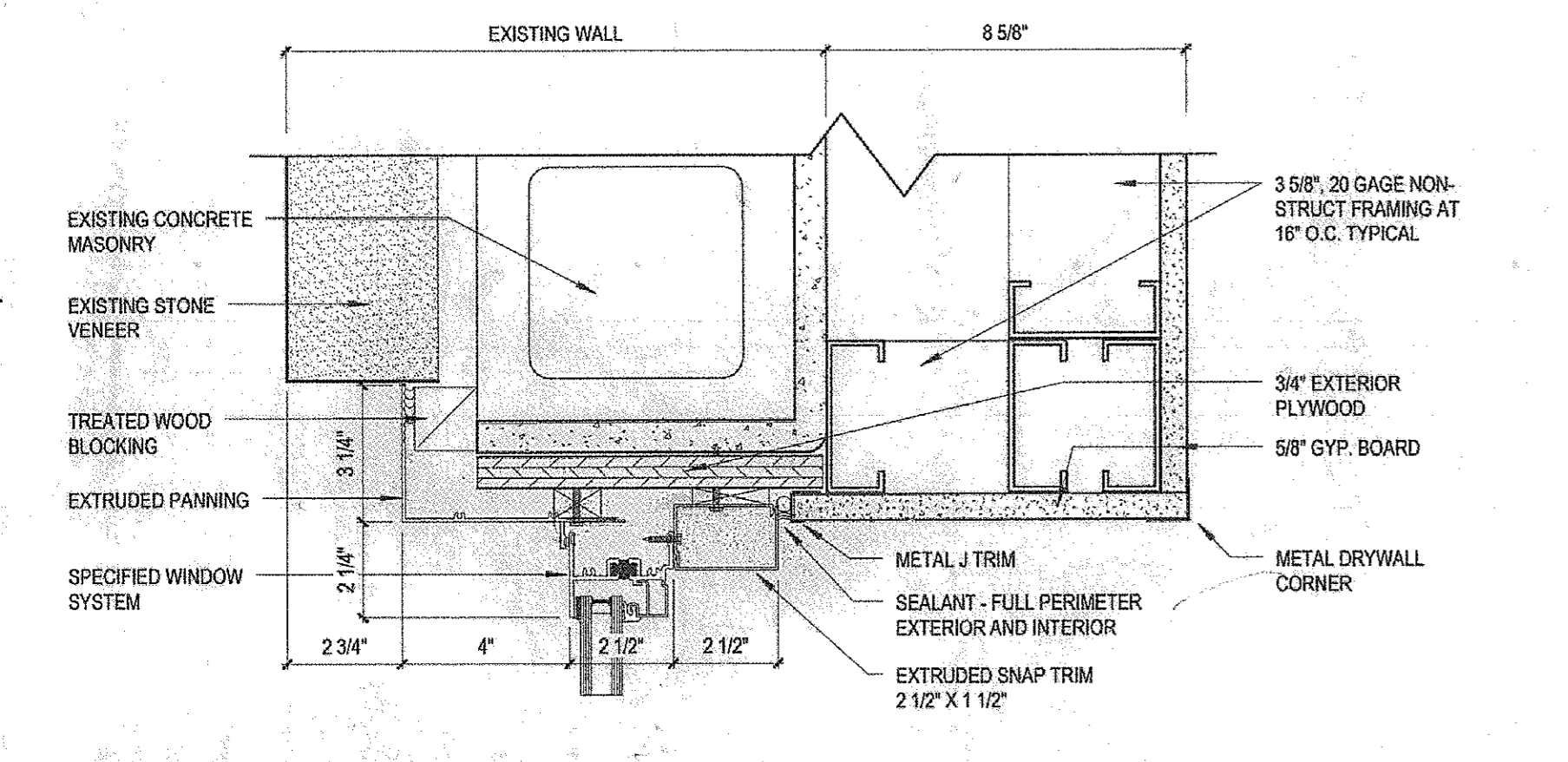
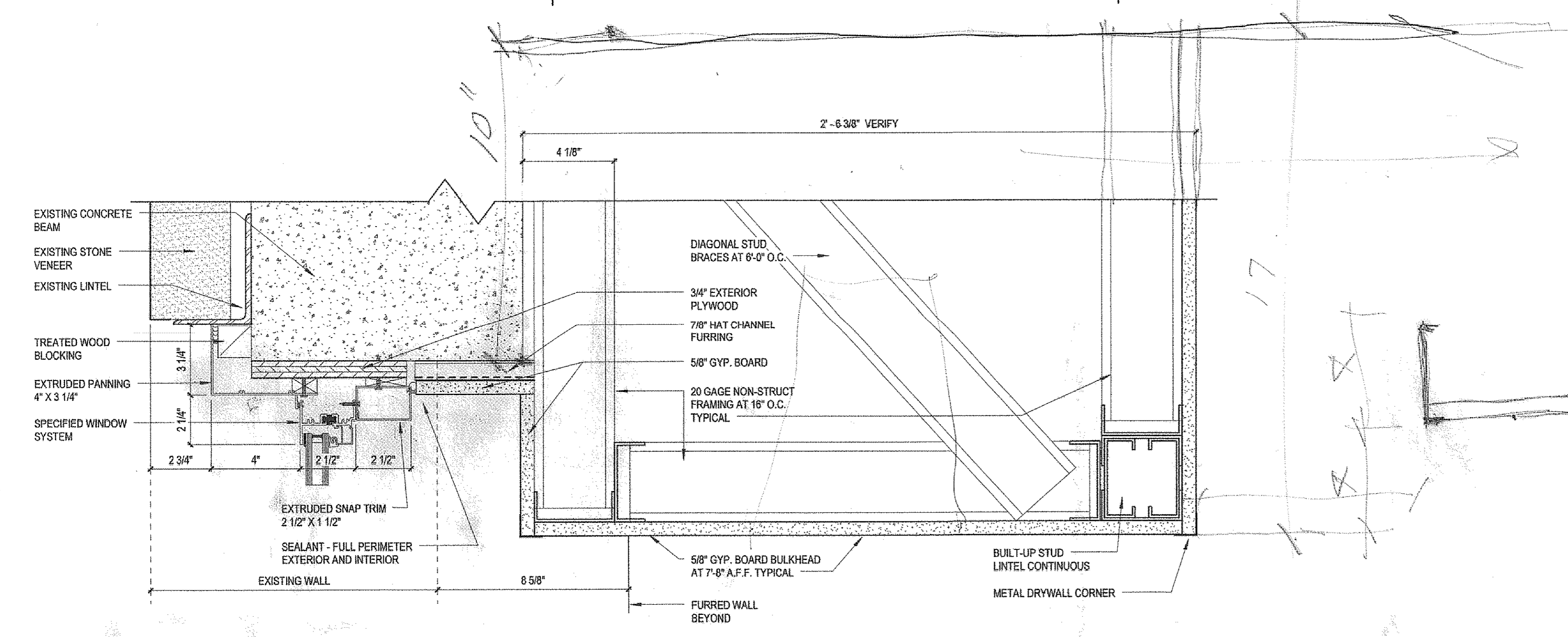
**9 COLUMN FURRING**  
 1" = 1'-0"



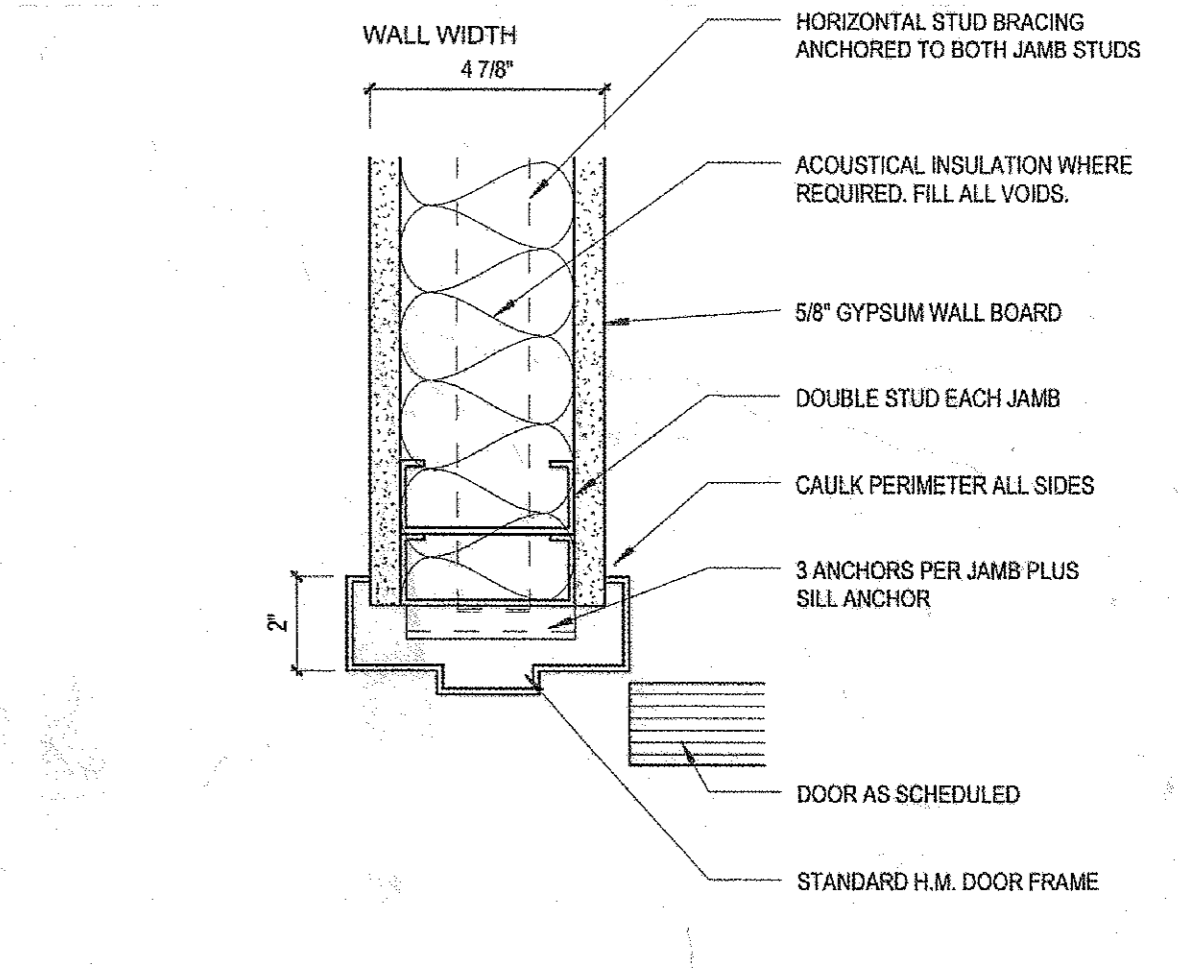
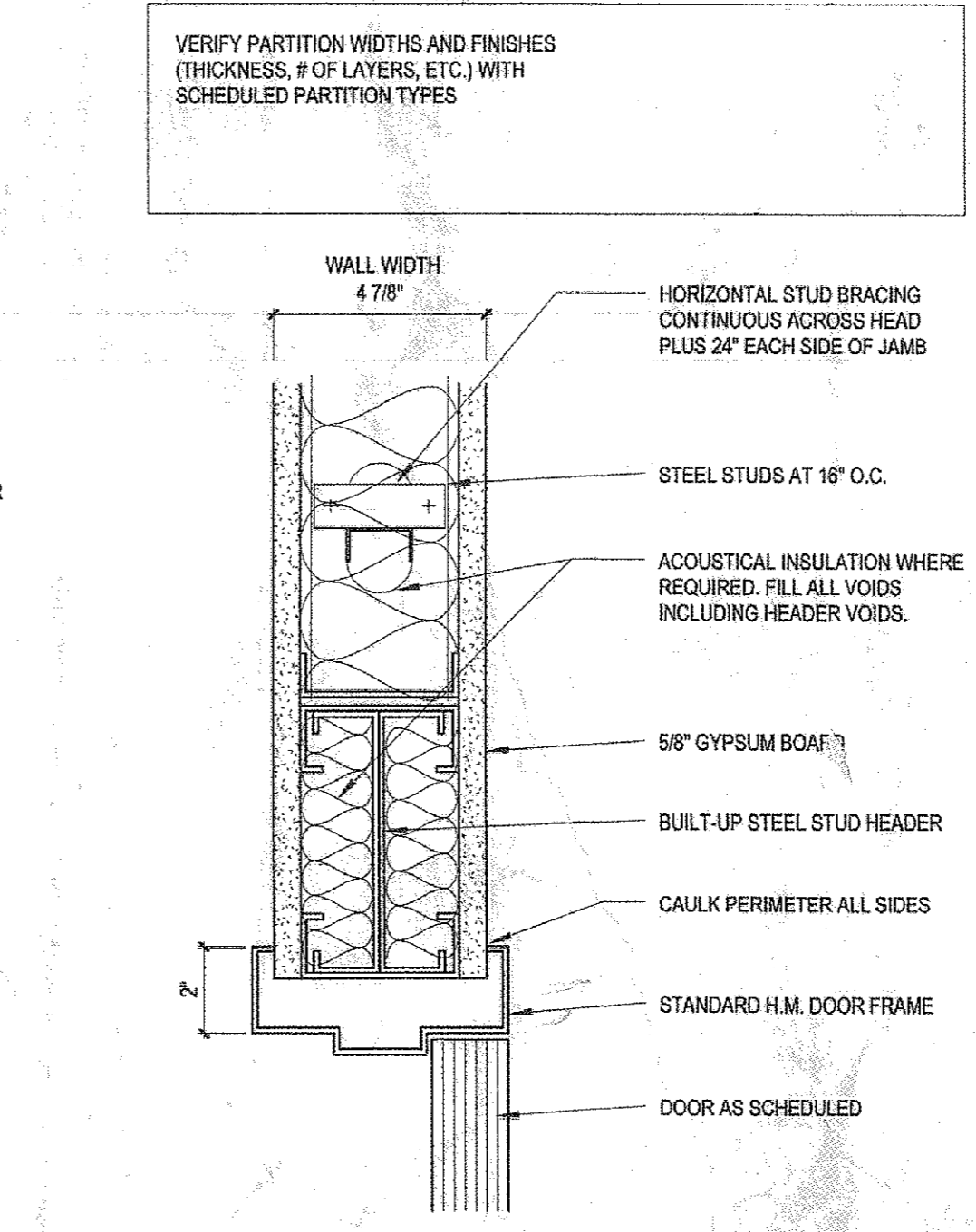
**5 FURRING PARTITION - TYPICAL**  
 1" = 1'-0"



**1 PARTITION - TYPICAL**  
 1" = 1'-0"

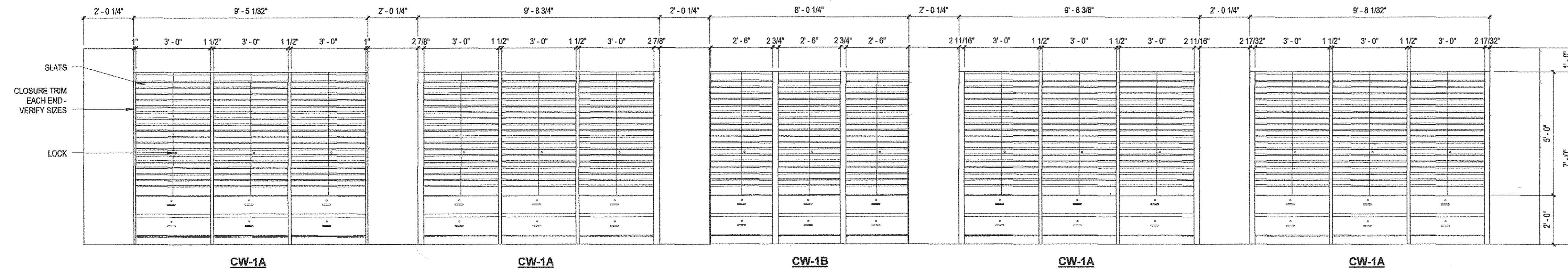


STANDARD DOOR SETTING TEMPLATE	HOLLOW METAL PROFILES	GENERAL DOOR TYPES NOTES
<p>ROOM I.D. SIGN (WHEN REQUIRED) MOUNT 5' A.F.F. TO CENTER AND 1' OFF STRIKE SIDE OF FRAME</p>		<ol style="list-style-type: none"> <li>ALL WOOD AND HOLLOW METAL DOORS TO BE 1 3/4" THICK, UNLESS NOTED OTHERWISE.</li> <li>EXTERIOR HOLLOW METAL DOORS TO BE INSULATED TYPE, UNLESS NOTED OTHERWISE.</li> <li>ALL DOOR DETAILS ARE TYPICAL ON THIS SHEET, UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO THE PARTITION TYPE OR APPLICABLE WALL SECTION AND THEN TO TYPICAL DOOR DETAILS FOR APPROPRIATE DETAIL.</li> <li>DOOR ELEVATION MARK COLUMN WITH MULTIPLE MARKS INDICATE MULTI LEAF DOORS. ALL LEAFS ARE TO BE EQUAL WIDTH, UNLESS NOTED OTHERWISE.</li> </ol>
DOOR ELEVATIONS	HOLLOW METAL FRAME ELEVATIONS	
<p>SINGLE DOOR</p>	<p>H1 HOLLOW METAL</p>	<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>ALL INTERIOR HOLLOW METAL FRAMES TO BE "WRAP-AROUND" STYLE AND BE SIZED 1" WIDER THAN THE RECEIVING PARTITION THICKNESS, UNLESS DETAILED OTHERWISE.</li> <li>ALL INTERIOR HOLLOW METAL DOOR FRAMES SHALL HAVE "HOSPITAL STOPS", TERMINATING 6" ABOVE FINISH FLOOR.</li> <li>CONTRACTOR TO COORDINATE FRAME WIDTHS WITH WALL AND PARTITION TYPES.</li> </ol>



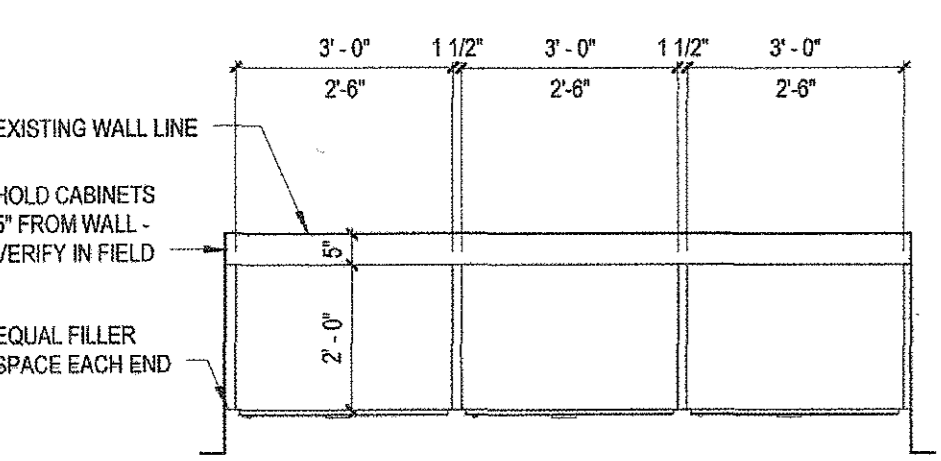
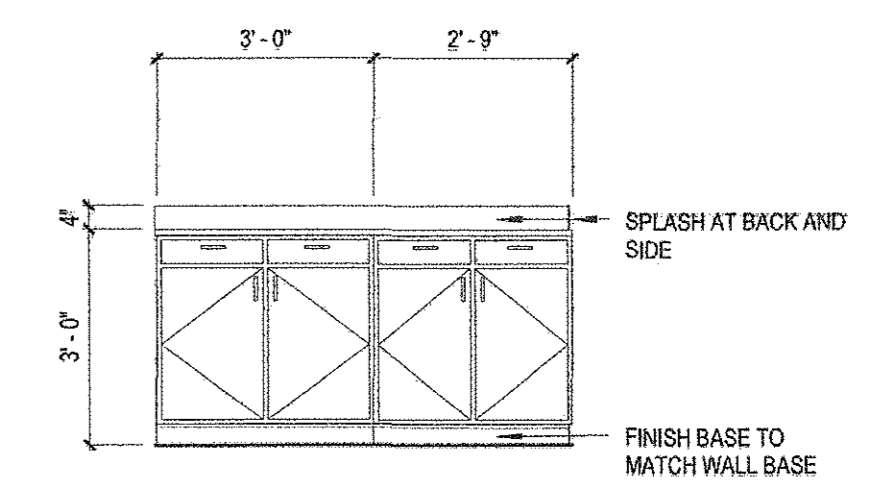
NOTE: FRAMED OPENINGS SIMILAR

NOTE: FRAMED OPENINGS SIMILAR

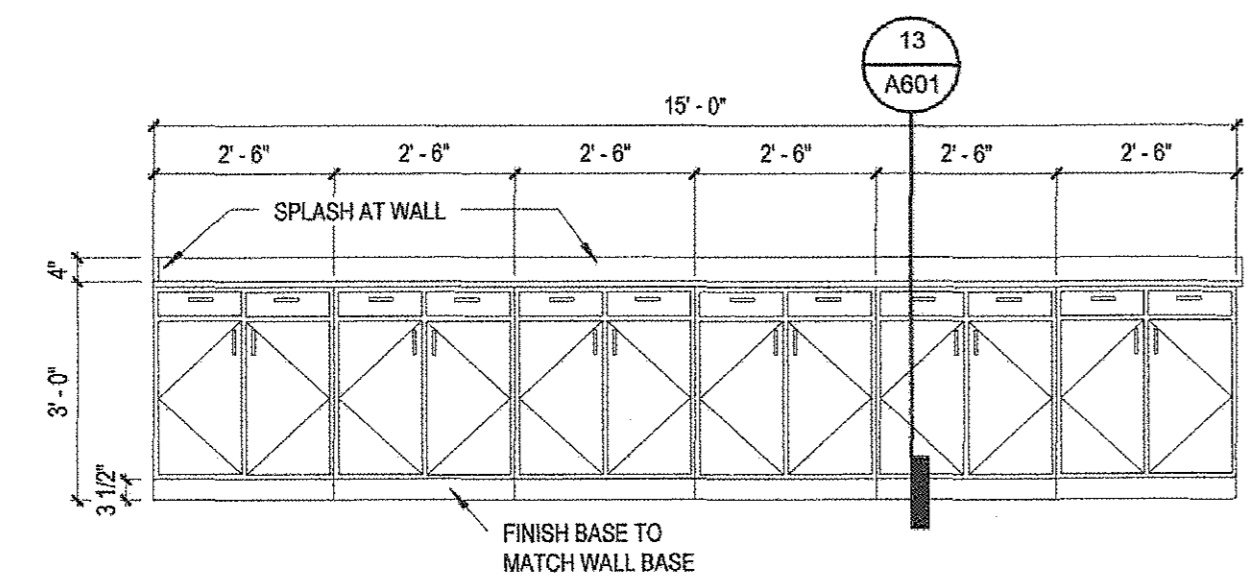


**20 PRODUCT CABINETS - NORTH WALL ELEVATION**  
3/8" = 1'-0"

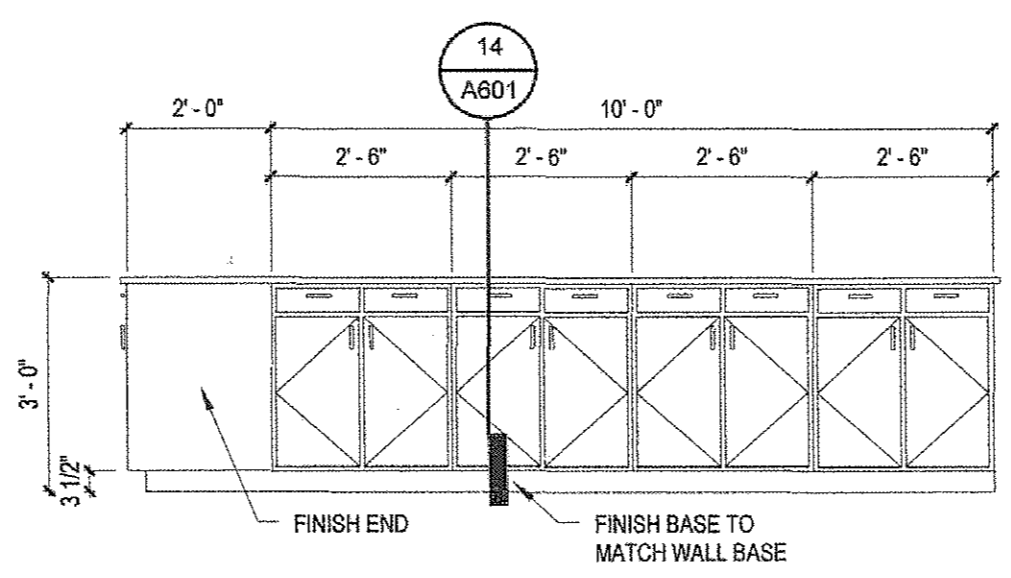
**4 CASEWORK ELEV. CW-2**  
3/8" = 1'-0"



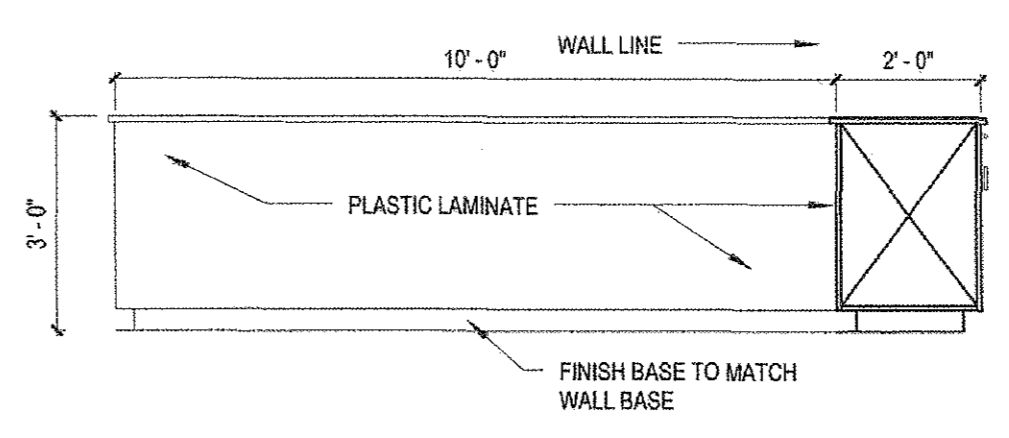
**19 PRODUCT CABINETS - PLAN VIEW**  
3/8" = 1'-0"



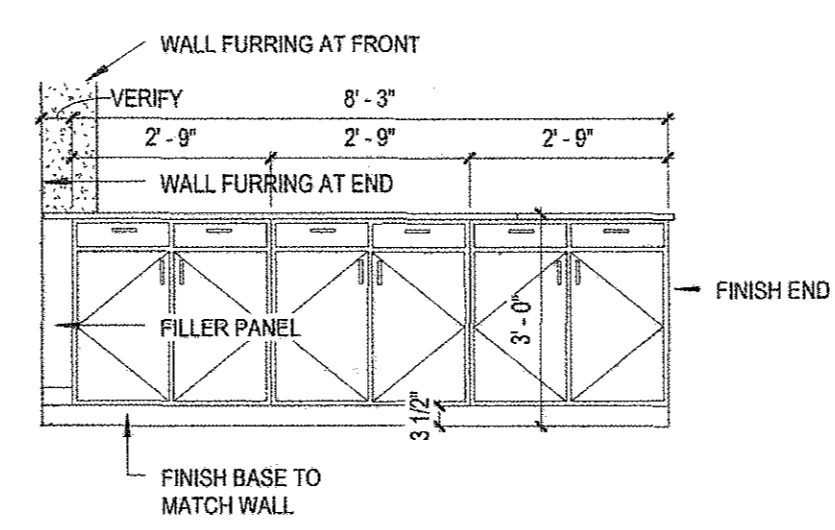
**15 CASEWORK ELEV. CW-4**  
3/8" = 1'-0"



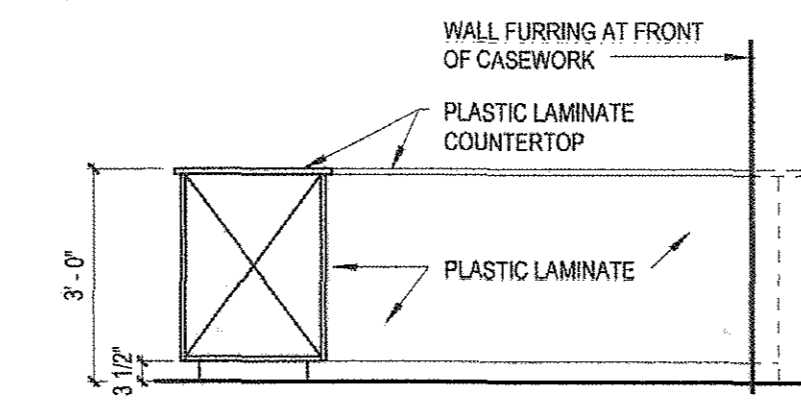
**11 CASEWORK ELEV. CW-3B**  
3/8" = 1'-0"



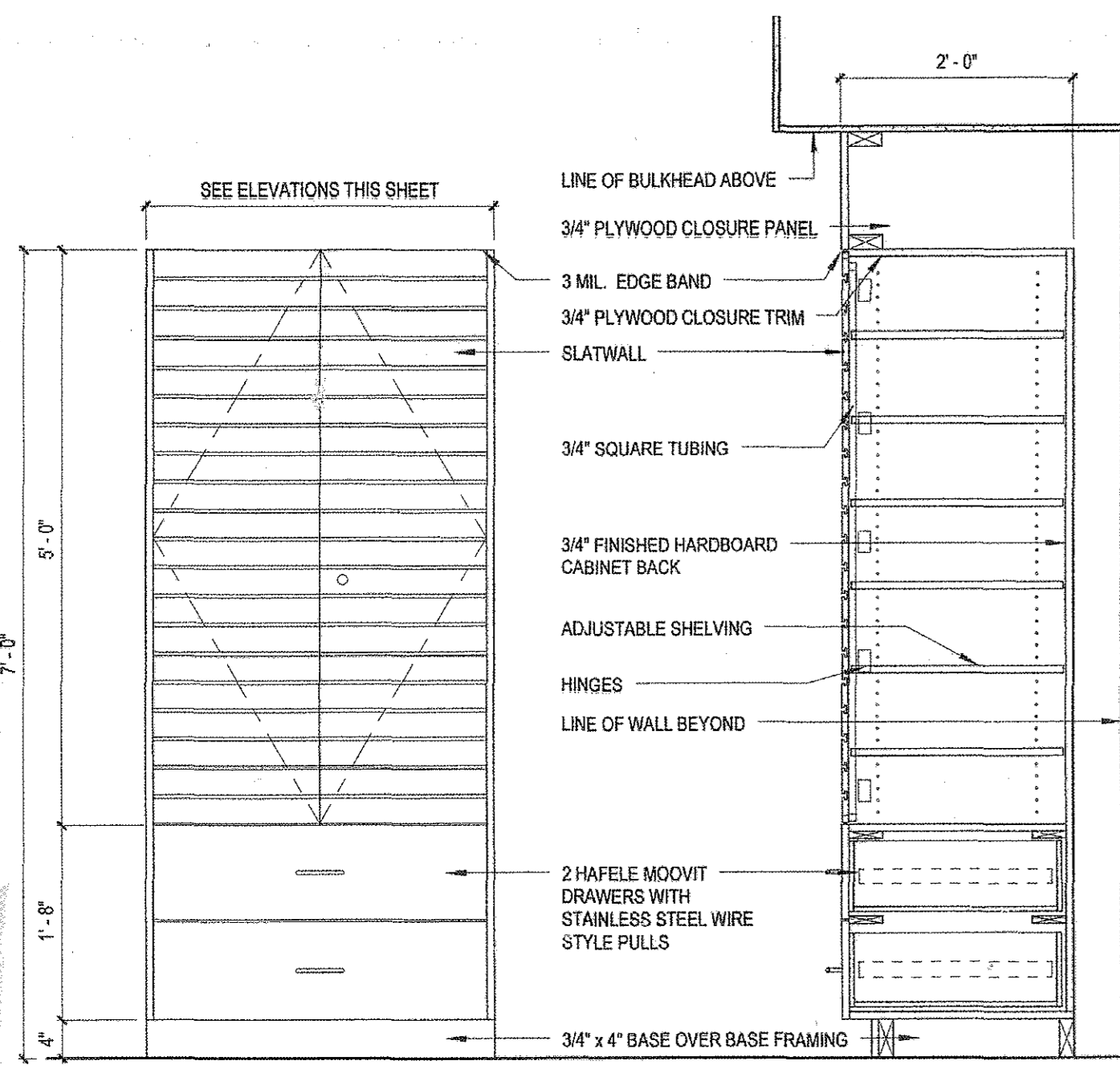
**7 CASEWORK ELEV. CW-3A**  
3/8" = 1'-0"



**10 CASEWORK ELEV. CW-3D**  
3/8" = 1'-0"

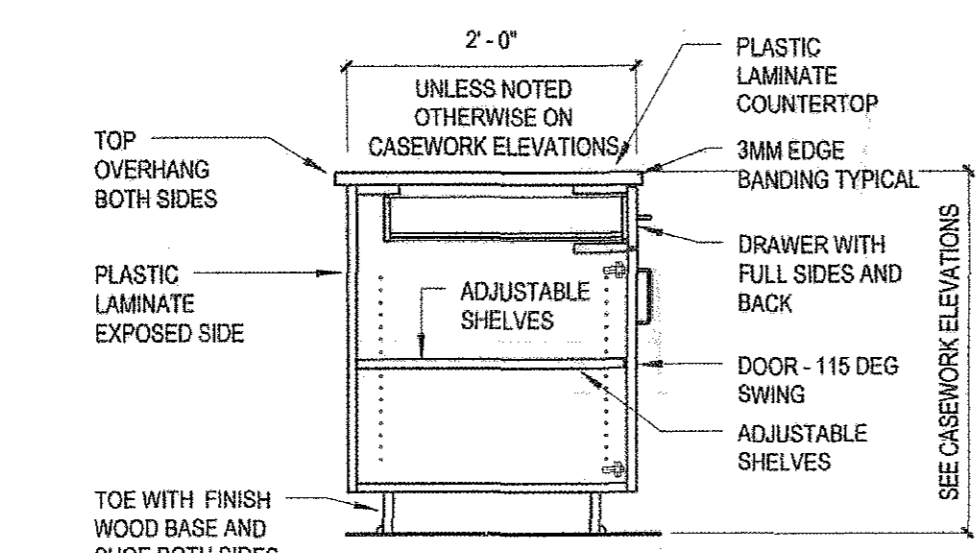


**6 CASEWORK ELEV. CW-3C**  
3/8" = 1'-0"

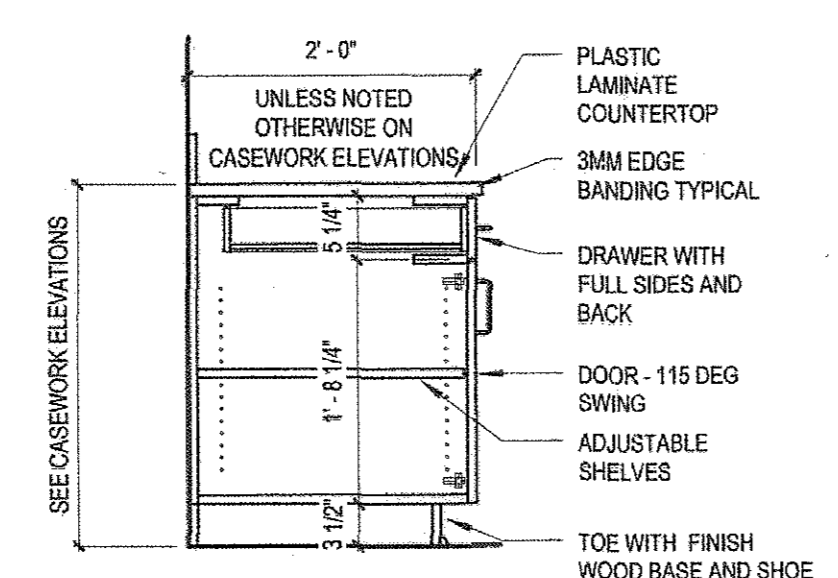


**17 STORAGE/DISPLAY CABINET**  
3/4" = 1'-0"

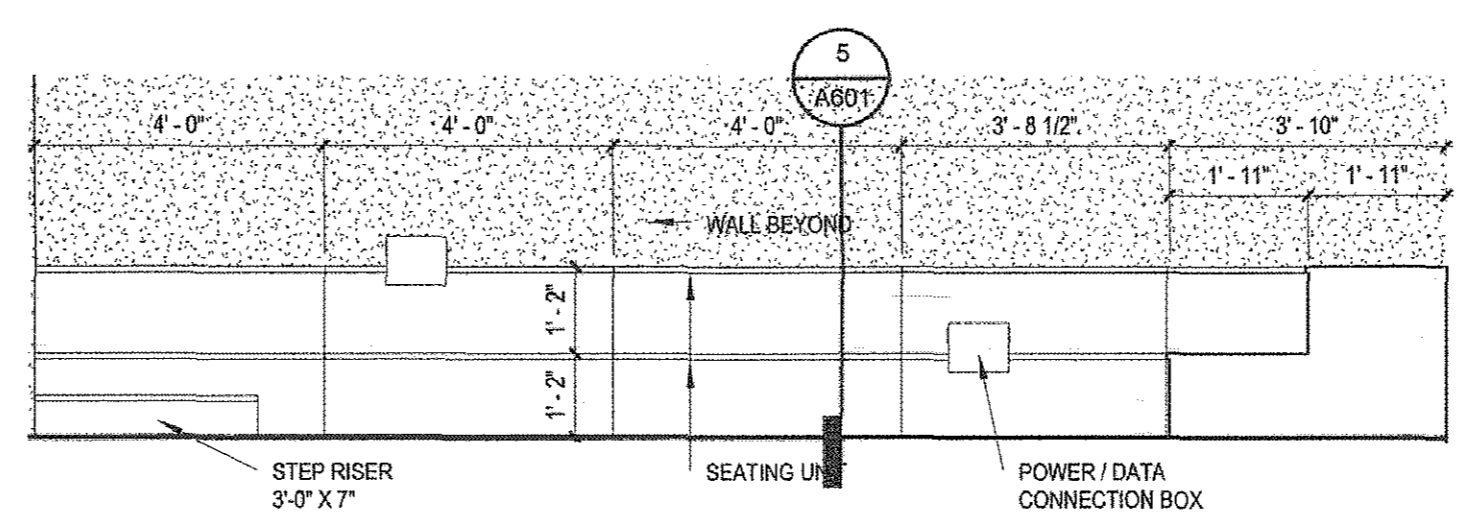
NOTE:  
HAFELE MOOVIT METAL DRAWER SYSTEM - EACH DRAWER WILL CONSIST OF 1 PAIR 500MM DOUBLE WALL, METALLIC WHITE DRAWER PROFILES.  
CABINET MEMBERS WITH SOFT CLOSE MECHANISM, FULL EXTENSION AND 110 LB. LOAD BEARING CAPACITY. 1 PAIR SIDE RAILS AND 1 PAIR HEIGHT EXTENSION PANELS PER DRAWER EXTENDING THE INSIDE HEIGHT. DRAWER FRONT TO BE SECURED WITH PRESS - FIT FRONT FIXING BRACKETS.



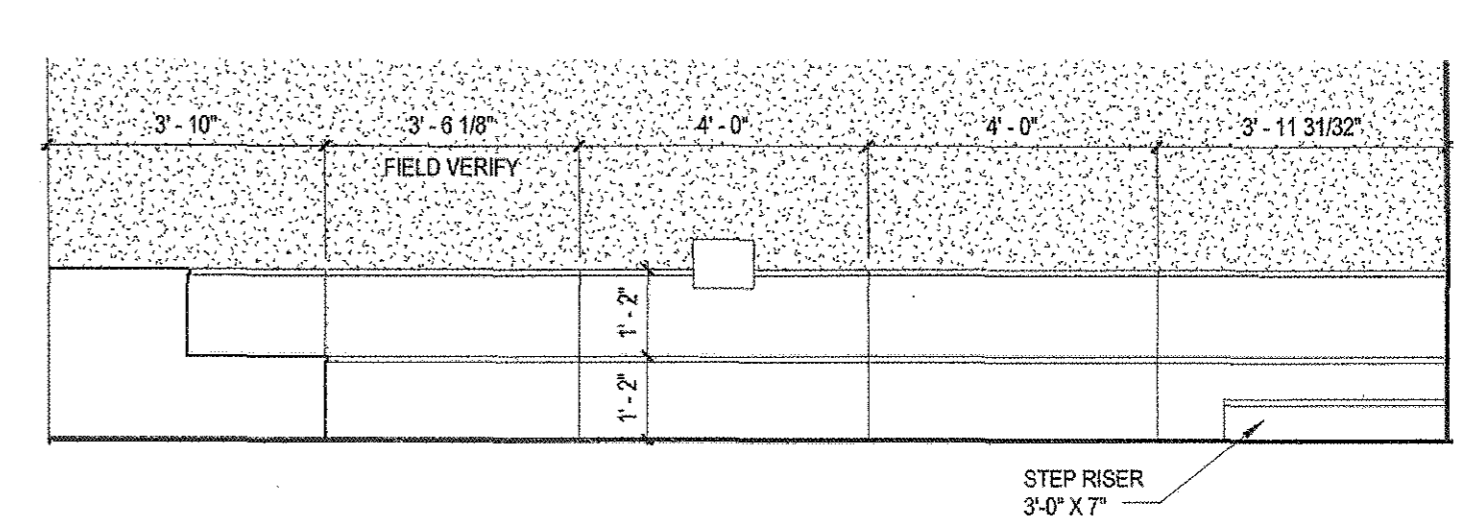
**14 SECTION - BASE CABINET ISLAND**  
3/4" = 1'-0"



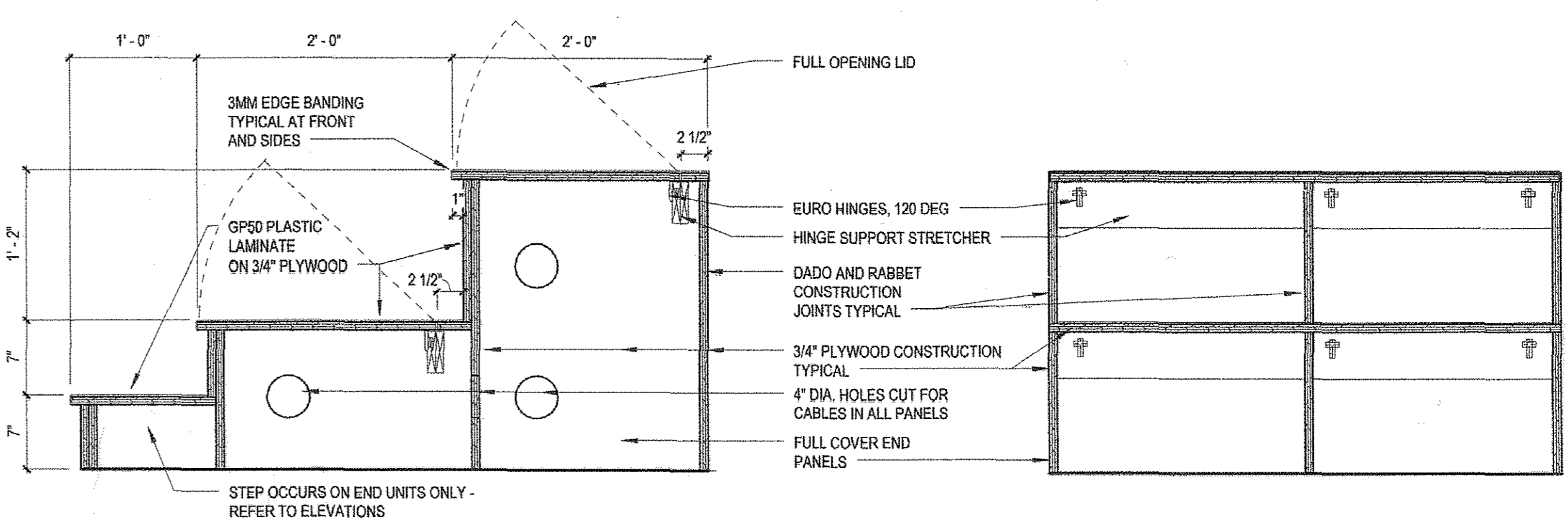
**13 SECTION - BASE CABINET AT WALL**  
3/4" = 1'-0"



**9 SEATING ELEV. SE-1A**  
3/8" = 1'-0"



**2 SEATING ELEV. SE-1B**  
3/8" = 1'-0"



**5 SECTION AT SEATING RISERS**  
4" = 1'-0"

Revisions:

**ARKANSAS STATE UNIVERSITY**  
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CahoonSteele Studio  
REGISTERED ARCHITECTS  
NO. C-184  
ARKANSAS

Sheet Name:  
CASEWORK ELEVATIONS  
Project No: 1210 Date: 04/27/12  
Sheet No:

**A601**

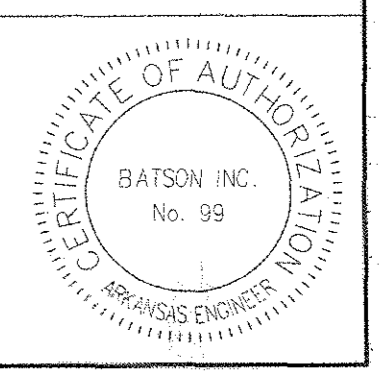
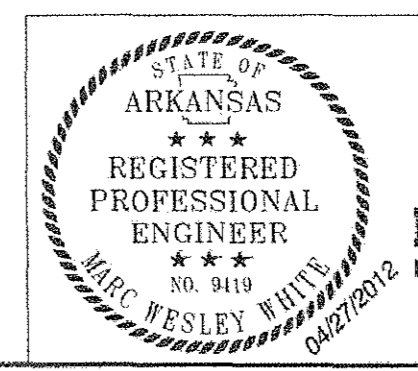
### MECHANICAL LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION
AC	AIR HANDLING UNIT	[Symbol]	NEW EQUIPMENT
A.F.F.	ABOVE FINISHED FLOOR	[Symbol]	VAV BOX DESIGNATION
BHP	BRAKE HORSE POWER	[Symbol]	EXISTING EQUIPMENT TO REMAIN
BTUH	BRITISH THERMAL UNIT PER HOUR	[Symbol]	EXISTING EQUIPMENT TO BE REMOVED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	[Symbol]	EXISTING DUCT TO REMAIN
CFM	CUBIC FEET PER MINUTE	[Symbol]	EXISTING PIPING TO REMAIN
DB	DRY BULB TEMPERATURE	[Symbol]	EXISTING TO BE REMOVED
DP	DIFFERENTIAL PRESSURE	[Symbol]	CONNECT TO EXISTING
EA	EXHAUST AIR	[Symbol]	CEILING DIFFUSER
EAT	ENTERING AIR TEMPERATURE OF THE COIL	[Symbol]	EXHAUST REGISTER
EF	EXHAUST FAN	[Symbol]	RETURN REGISTER
ESP	EXTERNAL STATIC PRESSURE	[Symbol]	AIR DEVICE DESIGNATION
FPM	FEET PER MINUTE (VELOCITY)	[Symbol]	NOT APPLICABLE
HP	HORSEPOWER	[Symbol]	NOISE CRITERIA
KW	KILOWATT	[Symbol]	NECK
LBS	POUNDS	[Symbol]	NOT TO SCALE
MAX.	MAXIMUM	[Symbol]	OPOSED BLADE DAMPER
MBH	1000 BTUH	[Symbol]	OWNER FURNISHED/CONTRACTOR INSTALLED
MCA	MINIMUM CIRCUIT AMPACITY	[Symbol]	OUTSIDE AIR
MIN.	MINIMUM	[Symbol]	POUNDS PER SQUARE FOOT
MHP	MOTOR HORSE POWER	[Symbol]	POUNDS PER SQUARE INCH
MOC	MAXIMUM OVER CURRENT PROTECTION	[Symbol]	POUNDS PER SQUARE INCH GAUGE
N/A	NOT APPLICABLE	[Symbol]	RA
NC	NOISE CRITERIA	[Symbol]	RETURN AIR
NK	NECK	[Symbol]	RH
NTS	NOT TO SCALE	[Symbol]	RELATIVE HUMIDITY
OSD	OPOSED BLADE DAMPER	[Symbol]	REVOLUTION PER MINUTE
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED	[Symbol]	SA
OSA	OUTSIDE AIR	[Symbol]	SUPPLY AIR
PSF	POUNDS PER SQUARE FOOT	[Symbol]	SC
PSI	POUNDS PER SQUARE INCH	[Symbol]	SENSIBLE CAPACITY
PSIG	POUNDS PER SQUARE INCH GAUGE	[Symbol]	SP
RA	RETURN AIR	[Symbol]	STATIC PRESSURE
RH	RELATIVE HUMIDITY	[Symbol]	SPEC.
RPM	REVOLUTION PER MINUTE	[Symbol]	SPECIFICATION
SA	SUPPLY AIR	[Symbol]	TC
SC	SENSIBLE CAPACITY	[Symbol]	TOTAL CAPACITY
SP	STATIC PRESSURE	[Symbol]	TSP
SPEC.	SPECIFICATION	[Symbol]	TOTAL STATIC PRESSURE
TC	TOTAL CAPACITY	[Symbol]	T*STAT
TSP	TOTAL STATIC PRESSURE	[Symbol]	THERMOSTAT
T*STAT	THERMOSTAT	[Symbol]	TYP.
TYP.	TYPICAL	[Symbol]	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE	[Symbol]	(1) FIRE DAMPER, (2) SMOKE DAMPER, (3) MOTORIZED DAMPER
WB	WET BULB TEMPERATURE	[Symbol]	(1) OPOSED BLADE DAMPER, (2) PARALLEL BLADE DAMPER, (3) CONTROL DAMPER, (4) SMOKE DETECTOR
WG	WATER GAUGE	[Symbol]	(1) T, (2) S
'	FEET	[Symbol]	(1) T, (1) S
"	INCHES	[Symbol]	(1) C
□	ROUND DUCT	[Symbol]	(1) H
[Symbol]	DETAIL/SECTION NUMBER	[Symbol]	THERMOSTAT OR SENSOR
[Symbol]	DETAIL/SECTION DESIGNATION	[Symbol]	KEYED NOTES
[Symbol]	SHEET NUMBER	[Symbol]	CO2 SENSOR
[Symbol]		[Symbol]	HUMIDISTAT
[Symbol]		[Symbol]	GATE VALVE

\* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

### DRAWING INDEX

M001	MECHANICAL NOTES, LEGEND, AND INDEX
M101	MECHANICAL AND PLUMBING DEMOLITION PLANS
M201	MECHANICAL RENOVATION PLAN - FIRST FLOOR
M202	MECHANICAL AND HYDRONIC RENOVATION PLANS - SECOND FLOOR
M301	MECHANICAL DETAILS
M401	MECHANICAL SCHEDULES
M501	CONTROLS SCHEMATICS
P101	PLUMBING RENOVATION PLAN - FIRST FLOOR



**GENERAL NOTES:**

- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
- REFER TO GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS FOR THE CONTRACT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION OF PROJECT INCLUDING THE EQUIPMENT AND INSTALLATION OF THE MECHANICAL WORK.
- CONTRACTOR SHALL BECOME, PRIOR TO BID, THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
- THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES), THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
- COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
- INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
- UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM.
- EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ELECTRICAL DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID.
- ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. DO NOT SUBMIT SHOP DRAWINGS FOR ANY EQUIPMENT WHICH MAY BE COORDINATED WITH OWNER FURNISHED ITEMS UNTIL THE APPROVED DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. VERIFY THE APPROVED EQUIPMENT HAS THE SAME ROUGH-IN AND FINAL CONNECTION REQUIREMENTS AND DESIGN CRITERIA AS THE DOCUMENTS. NOTIFY ENGINEER OF ANY CHANGES, INCOMPATIBILITY, OR UNUSUAL CONDITIONS IMMEDIATELY. SEE SPECIFICATIONS OR DRAWINGS FOR LIST OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
- REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.

**DEMOLITION GENERAL NOTES:**

REFER TO GENERAL NOTES ON DRAWINGS.

- THE MECHANICAL RELATED DEMOLITION WORK INDICATED ON THE PLANS, SPECIFICATIONS, AND NOTES IS TO BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE. NO DEMOLITION SHALL TAKE PLACE IN ANY AREA OF BUILDING UNTIL THE CONTRACTOR HAS BEEN GIVEN APPROVAL TO PROCEED IN THAT SPECIFIC LOCATION.
- IF DURING DEMOLITION, IT BECOMES NECESSARY TO TEMPORARILY REMOVE ANY EQUIPMENT, PIPING, ETC. WHICH IS NOT SPECIFICALLY NOTED TO BE REMOVED (THEREBY IMPLYING THAT THEY ARE TO BE LEFT FOR FUTURE USE), THE CONTRACTOR SHALL REINSTALL SAID SYSTEMS TO FULLY OPERABLE CONDITION IN THEIR ORIGINAL LOCATIONS.
- DISPOSE OF ALL REMOVED EQUIPMENT AS DIRECTED BY THE OWNER.
- CONTRACTOR SHALL COORDINATE REMOVAL OF UTILITY SERVICES WITH UTILITY COMPANIES AND LOCAL AUTHORITIES AND PAY ALL FEES.
- OBTAIN ALL PERMITS AND PAY ALL FEES.
- ALL DEMOLITION WORK SHALL BE SCHEDULED WITH THE OWNER AT LEAST 48 HOURS PRIOR TO THE WORK.
- SCHEDULE UTILITY DOWN TIMES TO KEEP TO A MINIMUM AND TO NOT INTERFERE WITH THE DAILY SCHEDULE, IF POSSIBLE.
- PATCH ALL OPENINGS IN WALLS, FLOORS, CEILINGS MADE FOR ACCESS TO THE EXISTING EQUIPMENT FOR INSTALLATION OF THE NEW SYSTEMS.
- ANY DAMAGE TO THE OWNER'S PROPERTY, BUILDING OR EQUIPMENT RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
- MAINTAIN THE SECURITY OF THE BUILDINGS AT ALL TIMES.
- MAINTAIN THE FIRE AND SMOKE CONSTRUCTION INTEGRITY OF THE EXISTING BUILDINGS.
- IF DURING THE COURSE OF THE WORK MATERIAL WHICH MAY CONTAIN ASBESTOS IS FOUND STOP WORK IMMEDIATELY AND COMPLY WITH EPA REGULATIONS TO PROTECT WORKERS AND OCCUPANTS. NOTIFY OWNER AND ENGINEER.
- EXISTING EQUIPMENT SHALL BE RELOCATED AS NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. METHODS AND POSITIONS OF THE RELOCATIONS SHALL HAVE PRIOR APPROVAL OF THE ARCHITECT.

**RENOVATION NOTES:**

REFER TO GENERAL NOTES ON DRAWING.

- THE EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE FINAL LOCATIONS SHALL BE ESTABLISHED IN THE FIELD TO FIT THE AVAILABLE SPACE.
- ANY EXISTING EQUIPMENT, DUCTS, OR PIPING FOUND TO BE DAMAGED OR NON-OPERABLE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- ANY DAMAGE TO THE EXISTING BUILDING, STRUCTURE, FINISHES, OR ARCHITECTURAL FEATURES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
- VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO DUCT, PIPE OR EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING EQUIPMENT, STRUCTURE, FIRE PROTECTION AND ELECTRICAL IN THE SPACE.
- EXISTING EQUIPMENT SHALL BE RELOCATED AS NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. METHODS AND POSITIONS OF THE RELOCATIONS SHALL HAVE PRIOR APPROVAL OF THE ENGINEER.
- INSPECT THE EXISTING DUCTWORK FOR POSSIBLE CONDENSATION. REPAIR AND RE-INSULATE TO ELIMINATE CONDENSATION.
- UTILITY DOWN-TIME SHALL BE KEPT TO A MINIMUM AND SCHEDULED THREE DAYS IN ADVANCE.
- FIRE-PROOFING ON EXISTING STRUCTURE SHALL BE REPLACED OR TOUCHED-UP WHERE DISTURBED FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS.
- MAINTAIN THE SECURITY OF THE BUILDING AND EXISTING TENANTS AT ALL TIMES.
- MAINTAIN THE FIRE AND SMOKE CONSTRUCTION INTEGRITY OF THE EXISTING BUILDING.
- IF DURING THE COURSE OF THE WORK MATERIAL WHICH MAY CONTAIN ASBESTOS IS DISCOVERED, STOP WORK IMMEDIATELY, COMPLY WITH EPA REGULATIONS TO PROTECT WORKERS AND OCCUPANTS. NOTIFY OWNER AND ENGINEER.

**HVAC NOTES:**

REFER TO GENERAL NOTES ON DRAWING.

- SEAL AROUND ALL DUCT AND PIPE PENETRATIONS OF MECHANICAL TO PROVIDE AN AIR-TIGHT RETURN AIR OR OUTSIDE AIR PLENUM.
- SEAL ALL WALL PENETRATIONS.
- ALL HVAC WORK TO BE PER SMACNA AND ALL APPLICABLE CODES.
- ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF JOISTS EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING DUCTS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
- PROVIDE TURNING VANES AT ALL ELBOWS GREATER THAN 45°. TURNING VANES SHALL BE DOUBLE THICKNESS.
- PROVIDE FLEXIBLE CONNECTIONS AND CONNECTIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL EXHAUST FANS, AIR BOXES, ETC. WHERE EQUIPMENT HAS ROTATING PARTS (MOTORS, ETC.).
- ALL SUPPLY AND RETURN DUCTS SHALL BE INTERNALLY LINED FOR THE FIRST TWENTY FEET FROM THE A/C EQUIPMENT THEY SERVE. THE BALANCE OF THE DUCTWORK SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS INSULATION UNLESS SHOWN OTHERWISE. DUCT SIZES SHOWN ON PLANS INDICATED FREE AREA REQUIRED IN DUCTS.
- INSTALL NEW FILTERS AT THE COMPLETION OF CONSTRUCTION. INSTALL PRIOR TO TEST AND BALANCE. FILTERS TO BE OWNER FURNISHED.
- BALANCE AIR AND WATER FOR NEW AND MODIFIED SYSTEMS ASSOCIATED WITH PROJECT. VERIFY SYSTEM PERFORMANCE OF CONTROL SEQUENCES. SEE SPECIFICATIONS FOR OTHER TEST AND BALANCE REQUIREMENTS. SUBMIT FINAL BALANCE OF AIR AND WATER SYSTEMS (FLOW AND TEMPERATURE) FOR REVIEW.
- MECHANICAL CONTRACTOR (MC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:  
A) ELECTRIC DAMPER ACTUATORS: FURNISHED BY MC, INSTALLED BY MC.  
B) DISCONNECTS: WHERE NOT FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC, WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY MC, INSTALLED BY EC.
- COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS, HUMIDISTATS AND SENSORS WITH ENGINEER. MOUNT 24" A.F.F.

**CONTROL NOTES:**

REFER TO GENERAL NOTES ON DRAWING.

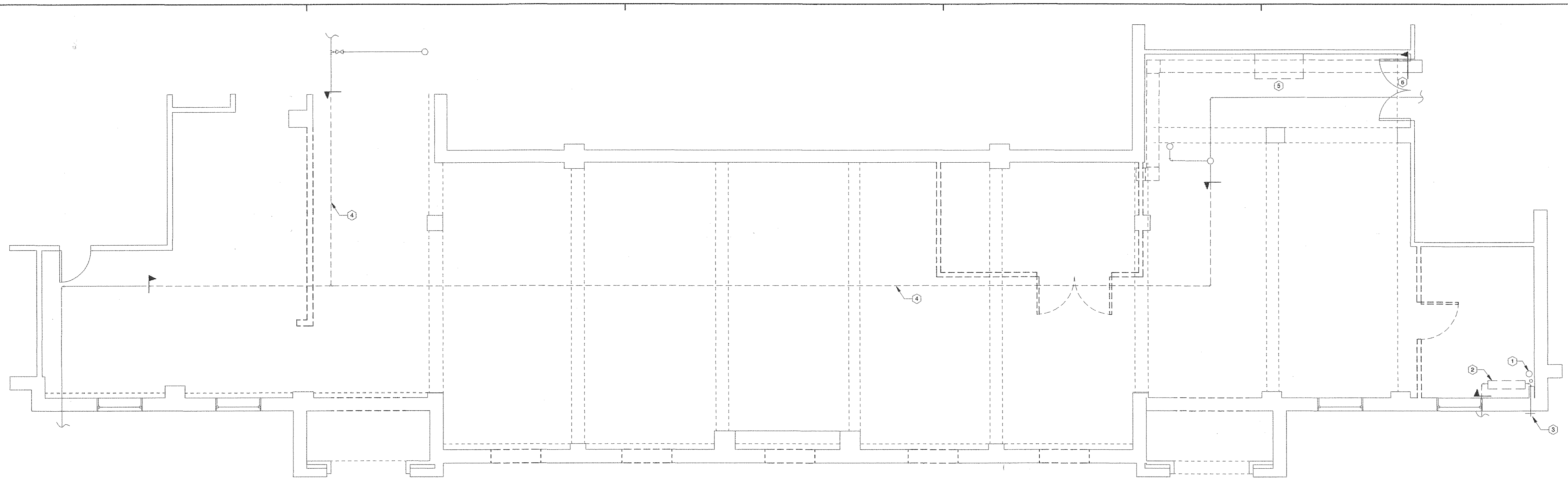
- ALL CONTROL DEVICES SHALL BE CONTRACTOR INSTALLED. SEE CONTROL DEVICE SCHEDULE ON PLANS TO DETERMINE WHICH DEVICES ARE OWNER FURNISHED AND WHICH ARE CONTRACTOR FURNISHED. CONTRACTOR RESPONSIBLE FOR ALL CONTROL WIRING.
- SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL THERMOSTATS, SENSORS, AND OTHER EXPOSED CONTROL DEVICE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER BEFORE ROUGHING IN.
- ALL CONTROLS SHALL BE TESTED AND CALIBRATED BEFORE TESTING AND BALANCING IS PERFORMED.
- PROVIDE LAMINATED TAGS AT ALL CONTROL DEVICES INDICATING EQUIPMENT BEING CONTROLLED.
- INTERLOCK CONTROLS WITH THE ELECTRICAL FIRE AND SMOKE ALARM SYSTEM. COORDINATE WITH THE ELECTRICAL SYSTEMS CONTRACTOR FOR INTERFACE REQUIREMENTS OF THE SYSTEMS.
- ALL WIRING SHALL BE IN CONDUIT WHERE ROUTED IN WALLS AND INSIDE MECHANICAL AND ELECTRICAL ROOMS. REFER TO THE SPECIFICATIONS.
- ALL CONTROL WIRING, INCLUDING RS485, TO BE BELLON MODEL 8302FE NON-PAIRED, 18GA, 4 CONDUCTOR.
- PROGRAMMING OF CONTROLS TO BE PERFORMED BY OWNER.
- FOR FACTORY MOUNTED CONTROL DEVICES PROVIDED WITH AHU-9, CONTRACTOR TO ROUTE CONTROL WIRING FROM AHU-9 TERMINAL BLOCK TO BCU-1.

**SESMIC NOTES:**

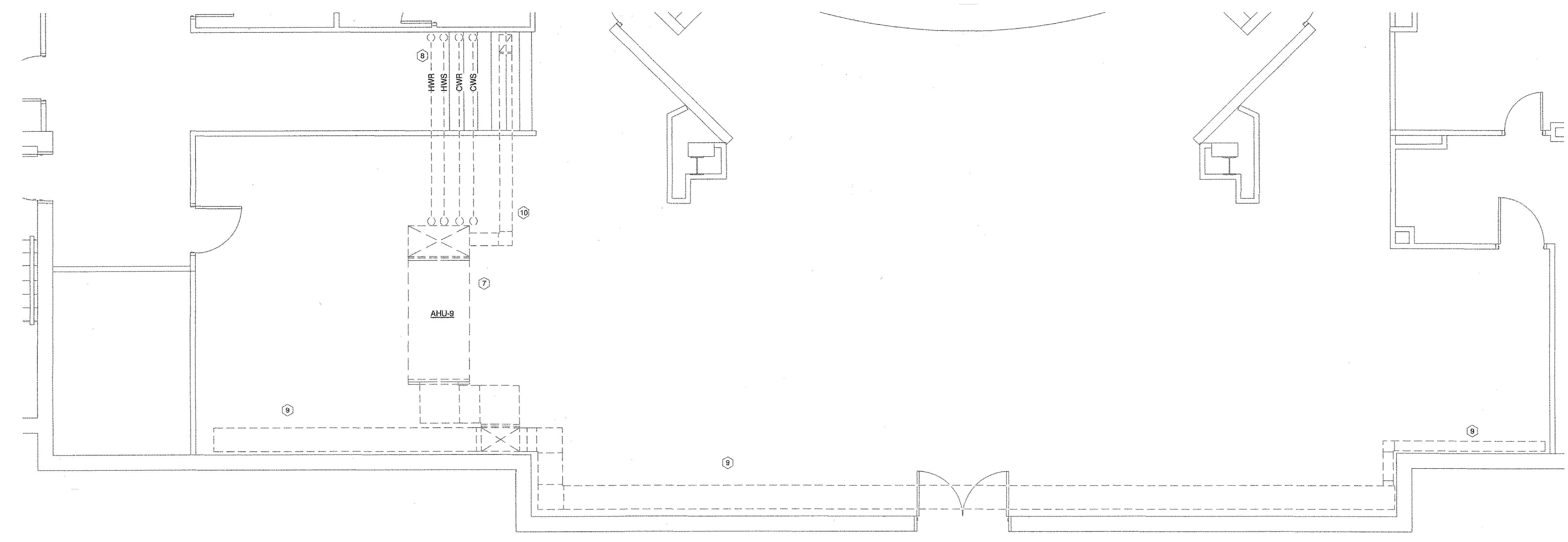
SEE SPECIFICATION FOR INSTALLATION AND DESIGN REQUIREMENTS.

**CONTROL SEQUENCES:**

- SINGLE DUCT VAV BOXES**  
EACH OF THE THREE ROOMS SHALL HAVE ITS SPACE TEMPERATURE CONTROLLED BY ITS OWN ELECTRONIC THERMOSTAT. THE SINGLE THERMOSTAT IN EACH ROOM SHALL CONTROL THE PAIR OF VAV BOXES SERVING THE SUBJECT SPACE.  
COOLING MODE: BOX AIRFLOW TO MODULATE BETWEEN MIN AND MAX TO SATISFY THERMOSTAT.  
HEATING MODE: BOX AIRFLOW TO MODULATE TO HEATING POSITION. 2-WAY CONTROL VALVE SHALL MODULATE TO SATISFY THERMOSTAT.
- AHU-9**  
SUPPLY AIR FAN: FAN VFD-1 IS CONTROLLED TO PROVIDE DOWNSTREAM STATIC PRESSURE OF 1.25 INCHES W.G. STATIC PRESSURE CONTROL POINT MAY BE RESET BY BAS. THE STATIC PRESSURE READING USED TO CONTROL VFD-1 SHALL COME FROM THE DUCT STATIC PRESSURE SENSOR. FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE.  
FAN STATIC PRESSURE RESET:  
A. THE BUILDING AUTOMATION SYSTEM SHALL MONITOR THE DAMPER POSITION OF ALL VAV TERMINAL UNITS AND DETERMINE THE CRITICAL ZONE VAV TERMINAL (CZ) FOR AHU-9, WHICH IS THE VAV TERMINAL UNIT THAT IS THE WIDEST OPEN.  
B. WHEN THE CZ IS LESS THAN 95% OPEN, THE SUPPLY FAN DISCHARGE STATIC PRESSURE SETPOINT SHALL BE RESET DOWNWARD BY 10% OF THE PREVIOUS SETPOINT AT A FREQUENCY OF 10 MINUTES UNTIL THE CZ IS MORE THAN 97% OPEN OR STATIC PRESSURE SETPOINT HAS RESET DOWNWARD TO THE SYSTEM MINIMUM SETTING OR THE VARIABLE FREQUENCY DRIVE IS AT ITS MINIMUM SETTING.  
C. WHEN THE CZ IS LESS THAN 95% OPEN AND THE SUPPLY DISCHARGE STATIC PRESSURE SETPOINT IS AT THE MINIMUM SETTING, THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET UPWARD IN INCREMENTS OF 0.5°F AT FREQUENCY OF 10 MINUTES AND THE STATIC PRESSURE SETPOINT HELD CONSTANT UNTIL THE CZ IS MORE THAN 97% OPEN OR THE DISCHARGE AIR TEMPERATURE IS RESET TO ITS MAXIMUM SETTING OF 10°F ABOVE DESIGN SETTING.  
D. THE REVERSE CONTROL SEQUENCE SHALL OCCUR WHEN THE CZ IS ABOVE 98% OPEN UNTIL THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE STATIC PRESSURE SETPOINT ARE AT THEIR DESIGN SETPOINTS.  
E. THE CONTROL BANDS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES AND ADJUSTMENT FREQUENCIES SHALL BE ADJUSTED TO MAINTAIN MAXIMUM STATIC PRESSURE OPTIMIZATION WITH STABLE SYSTEM CONTROL AND MAXIMUM COMFORT CONTROL.  
F. THE BAS SHALL ALSO READ THE STATUS ON THE SUPPLY AIR SENSOR AND DISPLAY THE PRESSURE READING ON THE STATUS SCREEN.  
HIGH STATIC LIMIT: HIGH STATIC LIMIT SWITCH SHALL BE HARDWIRED TO AHU-9 VFD. IF DUCT STATIC PRESSURE EXCEEDS 2" W.G. (ADJUSTABLE) THE SUPPLY FAN FOR AHU-9 SHALL BE DEENERGIZED.  
LEAVING AIR TEMPERATURE: THE DISCHARGE TEMPERATURE SENSOR SHALL MODULATE THE NORMALLY OPEN HEATING COIL TWO-WAY HOT WATER VALVE AND THE NORMALLY CLOSED COOLING COIL TWO-WAY CHILLED WATER VALVE IN SEQUENCE TO MAINTAIN A LEAVING AIR TEMPERATURE OF 55°F (ADJUSTABLE). WHEN OUTSIDE AIR TEMPERATURE FALLS BELOW 40°F, LEAVING AIR TEMPERATURE SHALL INCREASE TO 65°F (ADJUSTABLE).  
OUTSIDE AIR: THE BCU-1 SHALL MODULATE THE OUTSIDE AIR DAMPER BETWEEN MAXIMUM AND MINIMUM SETTINGS TO MAINTAIN A CO2 CONCENTRATION IN THE IT STORE NO GREATER THAN 700 PPM ABOVE OUTDOOR LEVELS. BCU-1 COMPARES THE IT STORE CO2 SENSOR TO THE OUTDOOR CO2 LEVEL AND ADJUSTS THE OUTSIDE AIR AND RETURN AIR DAMPERS AS REQUIRED TO MAINTAIN THE DESIRED SPACE CO2 LEVELS.  
NIGHT SET-BACK MODE: IN NIGHT SET-BACK MODE BCU-1 SHALL RECEIVE SPACE TEMPERATURE READINGS FROM ALL T\*STAT. IF ANY ARE OUTSIDE OF THE NIGHT SET BACK RANGE, THE AUTOMATION CONTROLLER SHALL ENERGIZE THE FAN FOR AHU-9. ONCE THE FAN FOR AHU-9 IS ENERGIZED, THE THERMOSTATS SHALL MODULATE THEIR RESPECTIVE VAV BOXES AS REQUIRED TO MAINTAIN SPACE TEMPERATURE BETWEEN 65°F AND 90°F. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.  
FREEZE/STAT: WHEN FREEZE/STAT IS ACTIVATED, THE OUTSIDE AIR DAMPER SHALL CLOSE AND THE RETURN DAMPER SHALL BE OPEN.  
DUCT SMOKE DETECTORS: ACTIVATION OF THE SUPPLY OR RETURN AIR SMOKE DETECTORS SHALL CAUSE THE AHU-9 SUPPLY FAN TO STOP AND THE OUTSIDE AIR AND RETURN AIR DAMPERS TO CLOSE.
- SPACE HUMIDITY CONTROL**  
THE RELATIVE HUMIDITY IN THE IT STORE ROOMS SHALL BE CONTROLLED TO A MAXIMUM OF 50% AS MEASURED BY THE SPACE HUMIDITY SENSOR. IF THE RELATIVE HUMIDITY LEVEL RISES ABOVE 50%, AHU-9 SHALL LOWER ITS LEAVING AIR TEMPERATURE TO 54°F. IF THE SPACE RELATIVE HUMIDITY CONTINUES TO RISE, THE AHU-9 LEAVING AIR TEMPERATURE SHALL CONTINUE TO STEP DOWN UNTIL SPACE HUMIDITY IS BELOW 50% RH. THE SPACE VAV TERMINALS SHALL MODULATE AS REQUIRED TO SATISFY THEIR RESPECTIVE SPACE TEMPERATURE NEEDS.



1  
M101 1/4" = 1'-0" MECH AND PLUMBING DEMO PLAN - FIRST FLOOR



2  
M101 1/4" = 1'-0" MECHANICAL DEMOLITION PLAN - SECOND FLOOR

**KEYED NOTES**

- 1 6" STORM DRAIN RISER
- 2 DEMOLISH EXISTING IRRIGATION SYSTEM RP2 BACKFLOW PREVENTOR.
- 3 EXISTING DOMESTIC WATER LINE AND HOSE BIBB TO REMAIN.
- 4 DEMOLISH EXISTING DOMESTIC WATER LINES AS INDICATED WITHIN SPACE.
- 5 DEMOLISH EXISTING JANITOR SINK. CAP WATER AND SANITARY LINES FLUSH TO WALL.
- 6 DEMOLISH EXISTING DUCT WORK AS INDICATED WITHIN SPACE. CAP AND INSULATE END OF DUCT FLUSH TO WALL.
- 7 DEMOLISH EXISTING AHU-8 AND PLATFORM AND SUPPORTS. UNIT IS SUSPENDED ABOVE STAGE FLOOR.
- 8 DEMOLISH EXISTING HYDRONIC LINES BACK TO MAINS. CAP AND INSULATE.
- 9 DEMOLISH EXISTING SUPPLY DUCT WORK AND ASSOCIATED GRILLES AND SUPPORTS.
- 10 DEMOLISH EXISTING OUTSIDE AIR DUCT TO LOUVER IN WALL. LOUVER TO REMAIN FOR NEW OUTSIDE AIR DUCT.

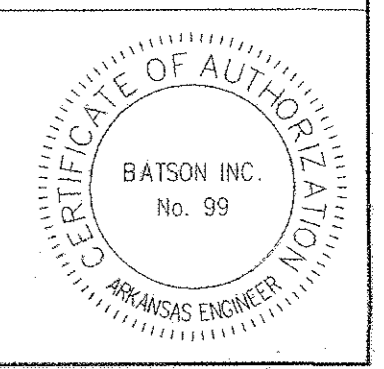
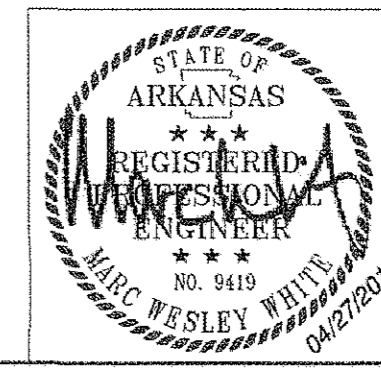
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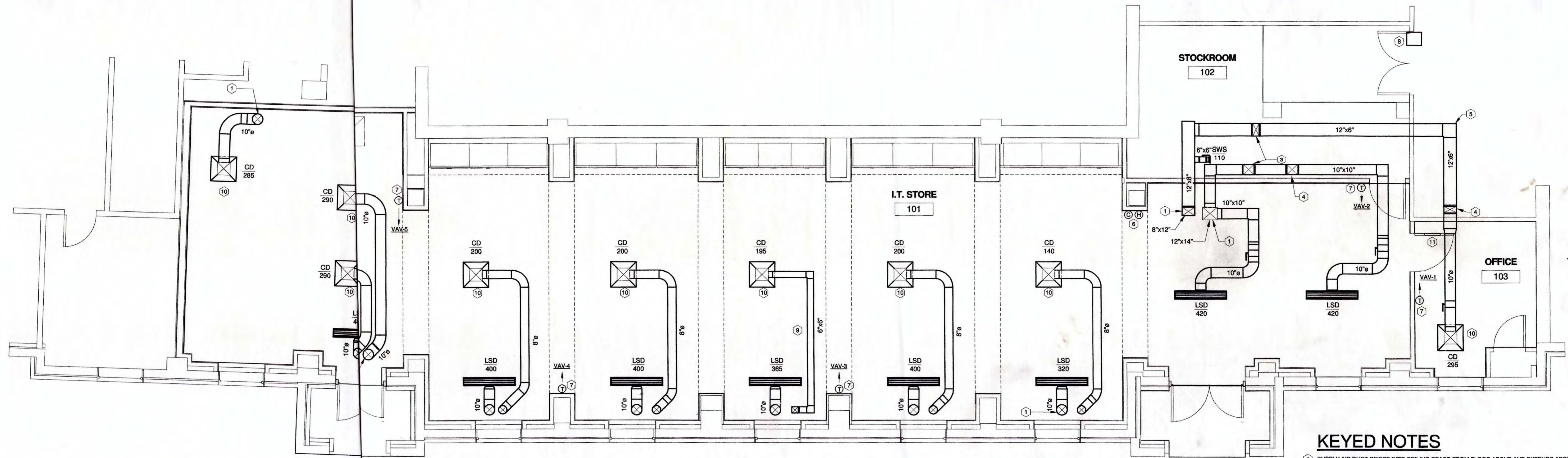
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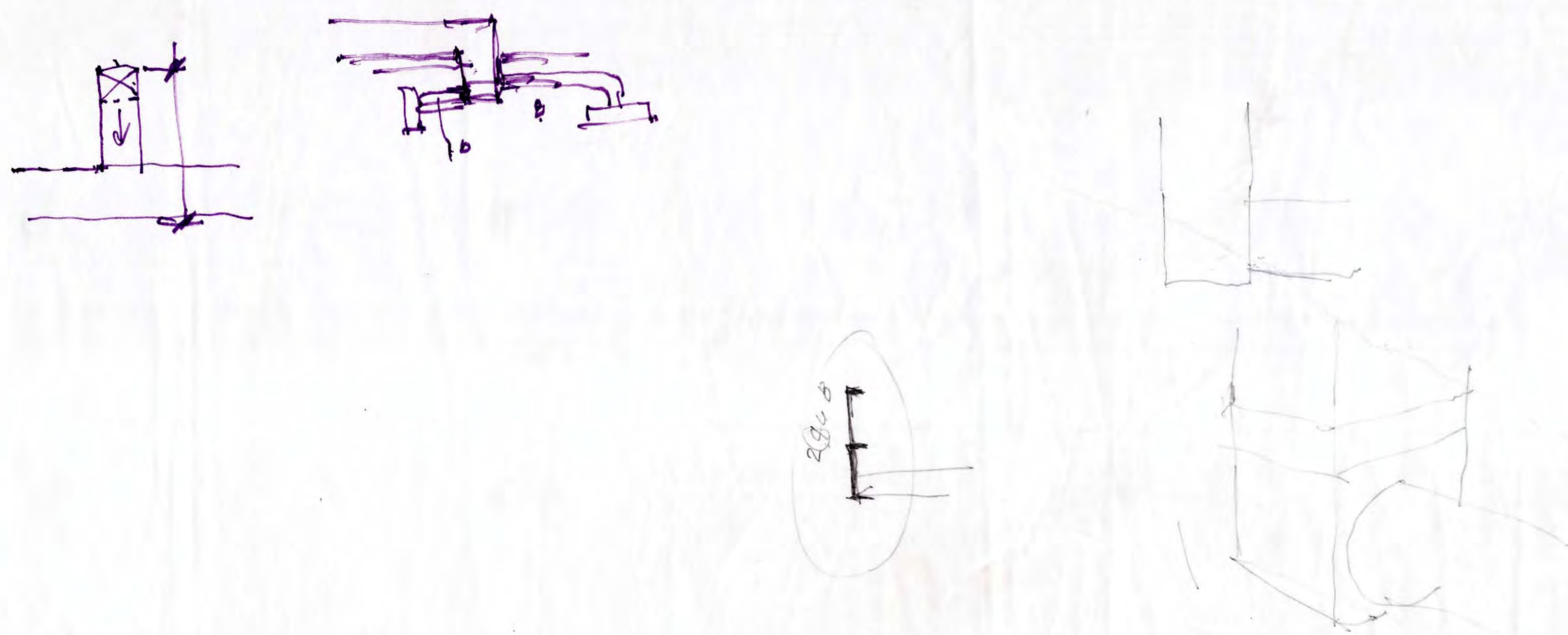
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Sheet Name:  
 MECHANICAL AND PLUMBING  
 DEMO PLANS  
 Project No: 1210 Date: 04/27/12  
 Sheet No: **M101**



1 MECHANICAL RENOVATION PLAN - FIRST FLOOR  
 1/4" = 1'-0"



**KEYED NOTES**

- ① SUPPLY AIR DUCT DROPS INTO CEILING SPACE FROM FLOOR ABOVE AND EXTENDS ABOVE CEILING TO ASSOCIATED GRILLE. (TYP.)
- ② RETURN AIR DUCT STUBS INTO CEILING PLENUM FROM FLOOR ABOVE.
- ③ DUCT DROPS TO ROUTE BELOW BEAM.
- ④ DUCT RISES TO ROUTE ABOVE CEILING.
- ⑤ DUCT ROUTED ABOVE LOW CEILING IN CORRIDOR.
- ⑥ WALL MOUNTED CONTROL DEVICE (CD3 AND CD13). SEE BUILDING AUTOMATION CONTROL DEVICE SCHEDULE. MOUNT 48" A.F.F.
- ⑦ WALL MOUNTED THERMOSTAT (CD10). SEE BUILDING AUTOMATION CONTROL DEVICE SCHEDULE. MOUNT 48" A.F.F.
- ⑧ CAPPED AND INSULATED EXISTING DUCT. SEE SHEET 1M101.
- ⑨ RECTANGULAR DUCT TO BE INSULATED WITH 1" LINER ABOVE CEILING.
- ⑩ SUPPLY GRILLE TO HAVE LINED SHEET METAL PLENUM PER DETAIL 12/M301.
- ⑪ 14" X 14" DOOR GRILLE TO BE TITUS T-700. COORDINATE WITH ARCHITECT FOR LOCATION AND FINISH.

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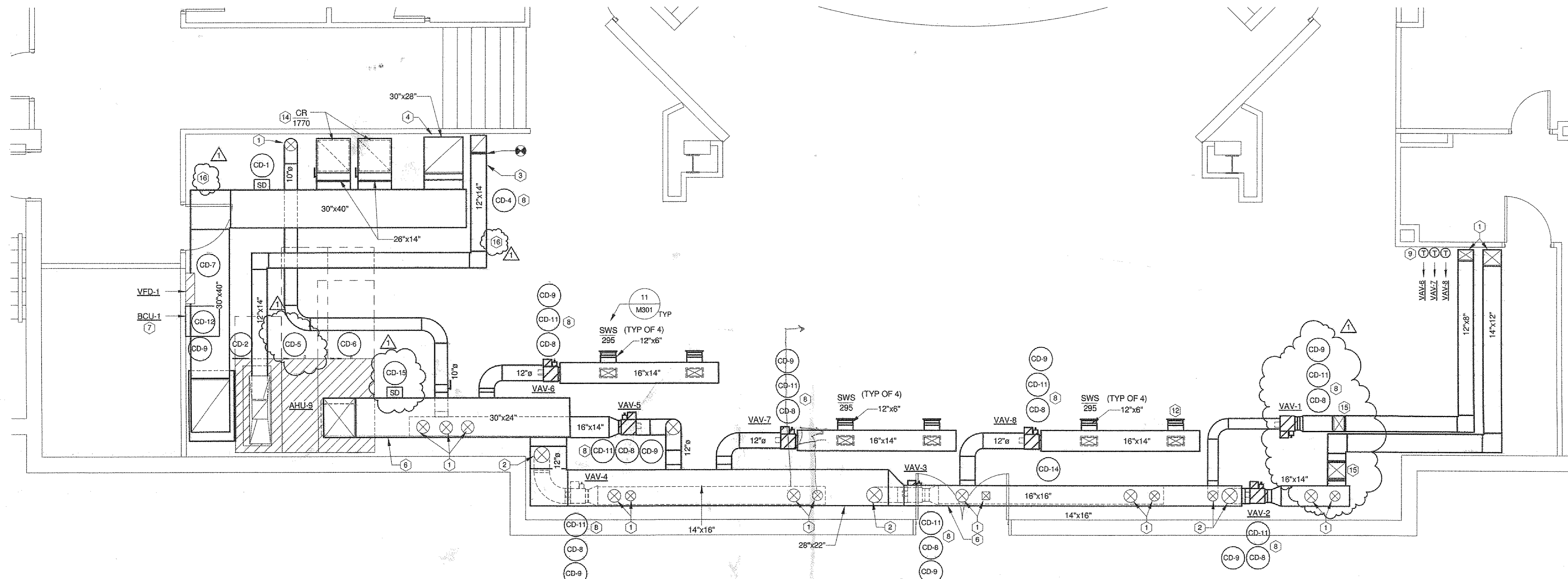
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 PLAN - FIRST FLOOR

Project No: 1210 Date: 04/27/12

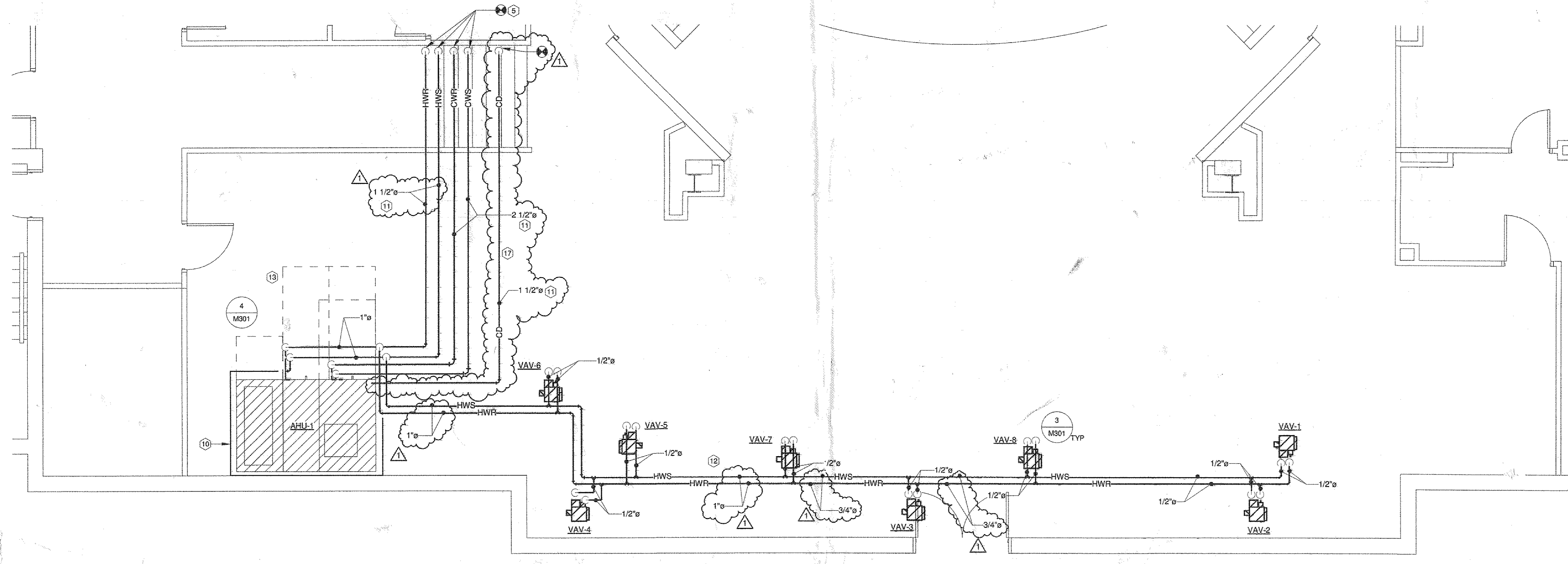
Sheet No: **M201**

**KEYED NOTES**

- 1 SUPPLY AIR DUCT DROPS FROM BOTTOM OF VAV TERMINAL BOX DUCT WITH MANUAL BALANCING DAMPER. DUCT DROPS THROUGH CORE DRILL OF FLOOR INTO FIRST FLOOR CEILING SPACE. SLEEVE AND SEAL PENETRATION. SEE 1M201 FOR CONTINUATION.
- 2 SUPPLY AIR DUCT DROPS FROM BOTTOM MAIN AND EXTENDS TO VAV TERMINAL BOX.
- 3 NEW OUTSIDE AIR DUCT ROUTES UP TO CONNECT TO EXISTING OUTSIDE DUCT AT LOUVER HIGH IN SPACE.
- 4 RETURN AIR DUCT DROPS THROUGH CORE DRILL IN FLOOR TO STUB INTO FIRST FLOOR CEILING SPACE. MANUAL BALANCING DAMPER IN THE VERTICAL.
- 5 NEW HOT WATER AND CHILLED WATER LINES CONNECT TO EXISTING PIPING WITHIN SPACE.
- 6 BOTTOM OF SUPPLY MAIN ROUTED 14" A.F.F. (TYPICAL)
- 7 CF/CI ENCLOSURE FOR CD12 CONTROLLER (BCU-1). ENCLOSURE TO BE A HOFFMAN MODEL #A-36NS08LP WITH STANDARD SLOTTED FLUSH LATCH. CONTRACTOR TO WIRE TO BOX. UNIVERSITY TO MOUNT AND MAKE FINAL CONNECTIONS TO CONTROLLER. BOX TO BE WALL MOUNTED. COORDINATE WITH OWNER FOR EXACT LOCATION.
- 8 CONTROL DEVICE. SEE BUILDING AUTOMATION CONTROL DEVICE SCHEDULE. (TYP.)
- 9 WALL MOUNTED THERMOSTAT (CD10). SEE BUILDING AUTOMATION CONTROL DEVICE SCHEDULE. MOUNT 48" A.F.F.
- 10 AHU-9 MOUNTED ON 8" CONCRETE HOUSE KEEPING PAD.
- 11 HYDRONIC PIPING ROUTED HIGH IN SPACE. SUPPORT PIPING ON UNISTRUT RACKS SUPPORTED FROM FLOOR.
- 12 SUPPORT DUCT WORK AND PIPING ON UNISTRUT RACKS. SECURE AND BRACE RACKS TO SOUTH EXTERIOR WALL PER DETAIL 1/M401. (TYP.)
- 13 MANUFACTURER REQUIRED CLEARANCES.
- 14 RETURN GRILLES TO BE LOCATED APPROXIMATELY 11" ABOVE STAGE FLOOR.
- 15 SUPPLY DUCT ROUTED UNDERNEATH THE EXISTING CAT WALK.
- 16 RETURN AIR AND OUTSIDE AIR DUCTWORK ROUTED APPROXIMATELY 14 FEET A.F.F.
- 17 ROUTE CONDENSATE DRAIN LINE FROM AHU-9 CONDENSATE PUMP TO PREVIOUS CONDENSATE CONNECTION POINT AT SANITARY VENT LINE.



1 MECHANICAL RENOVATION PLAN - SECOND FLOOR  
 1/4" = 1'-0"



2 HYDRONIC RENOVATION PLAN - SECOND FLOOR  
 1/4" = 1'-0"

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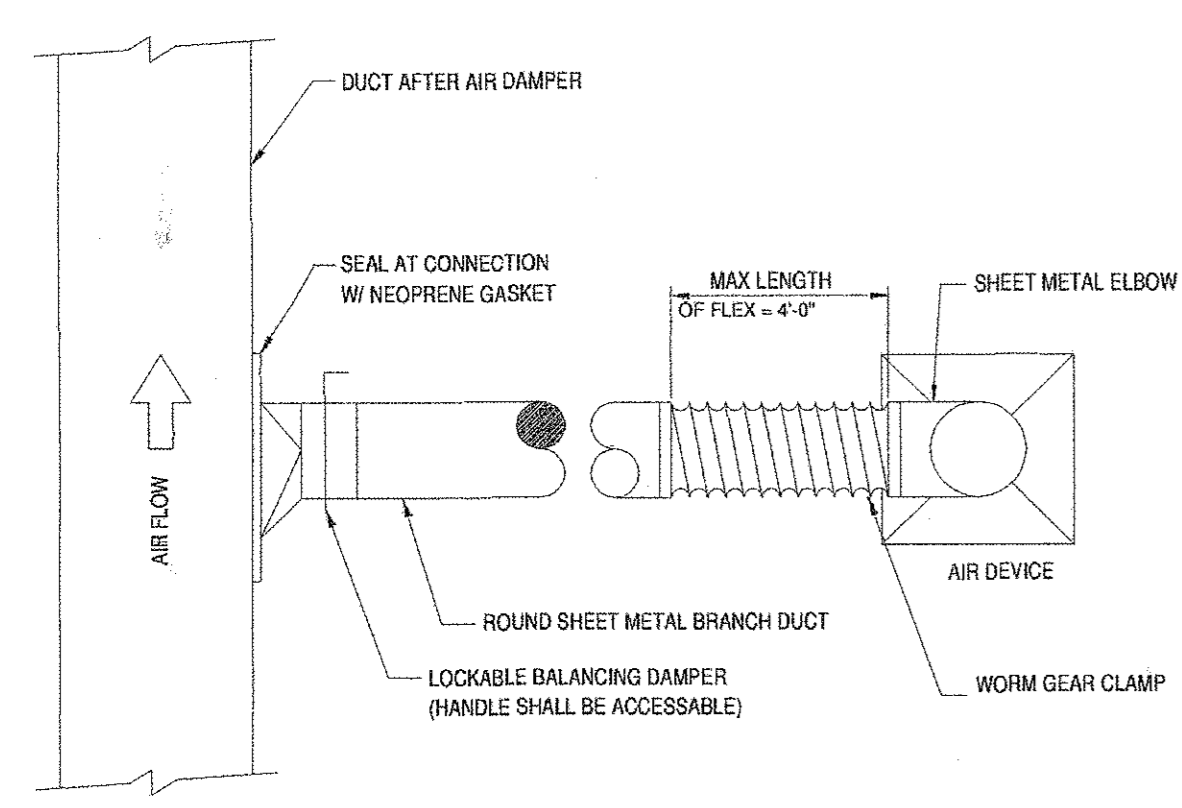
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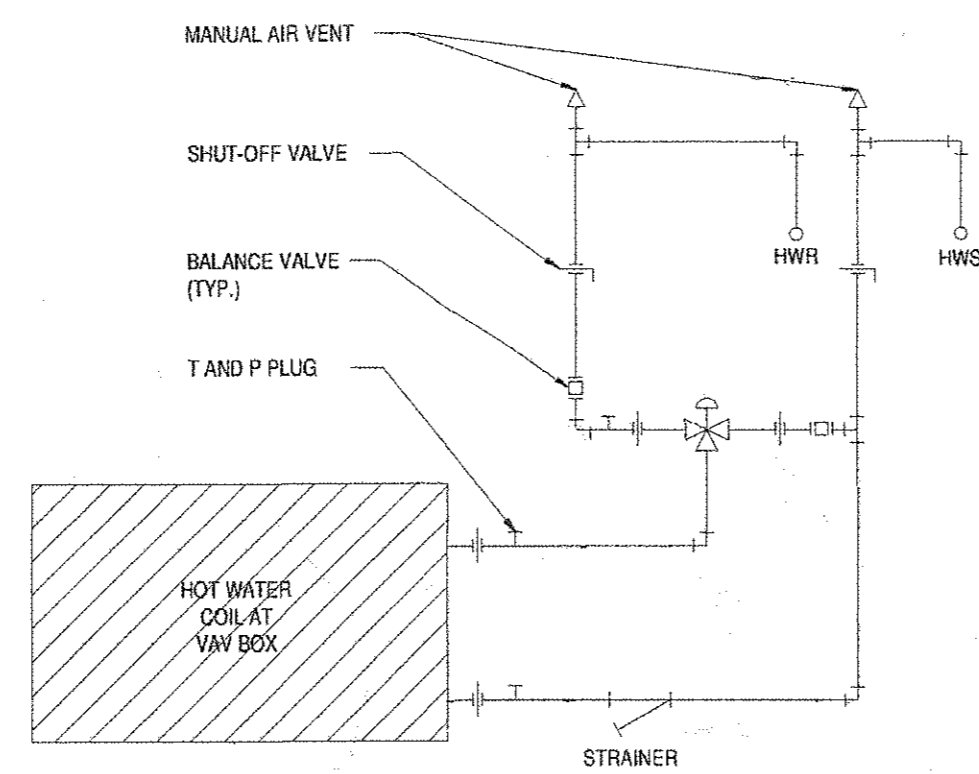
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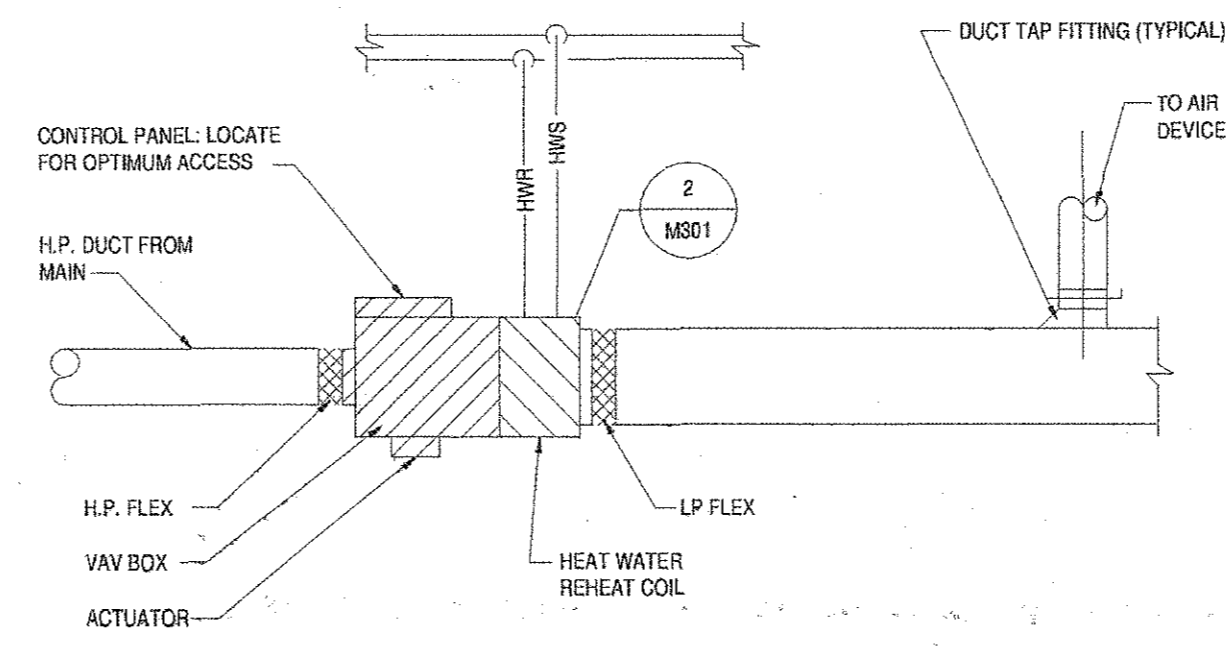
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 Project No: 1210 Date: 04/20/12  
 Sheet No: M202



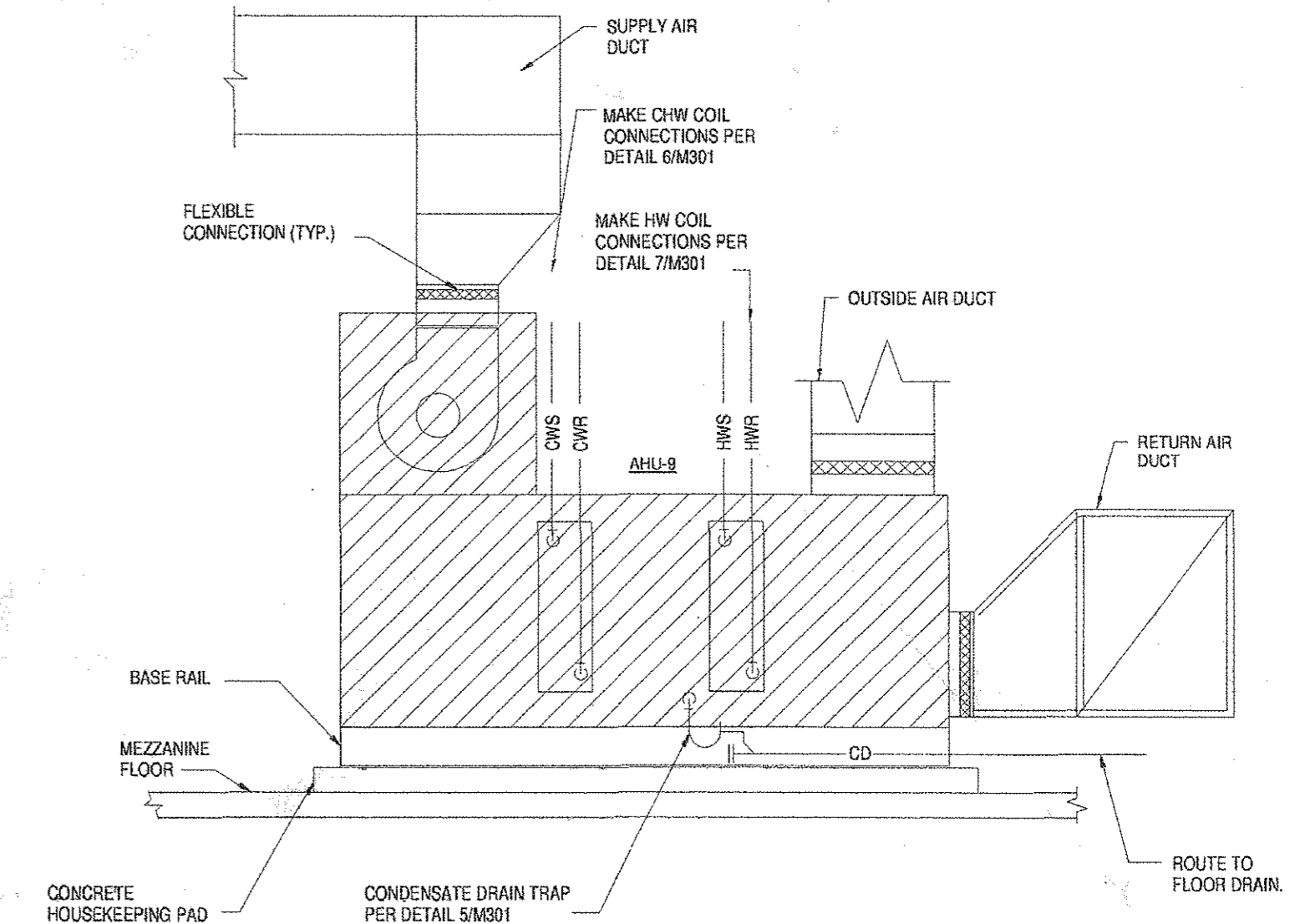
**1 TYPICAL DUCT CONNECTION**  
 M301 NOT TO SCALE



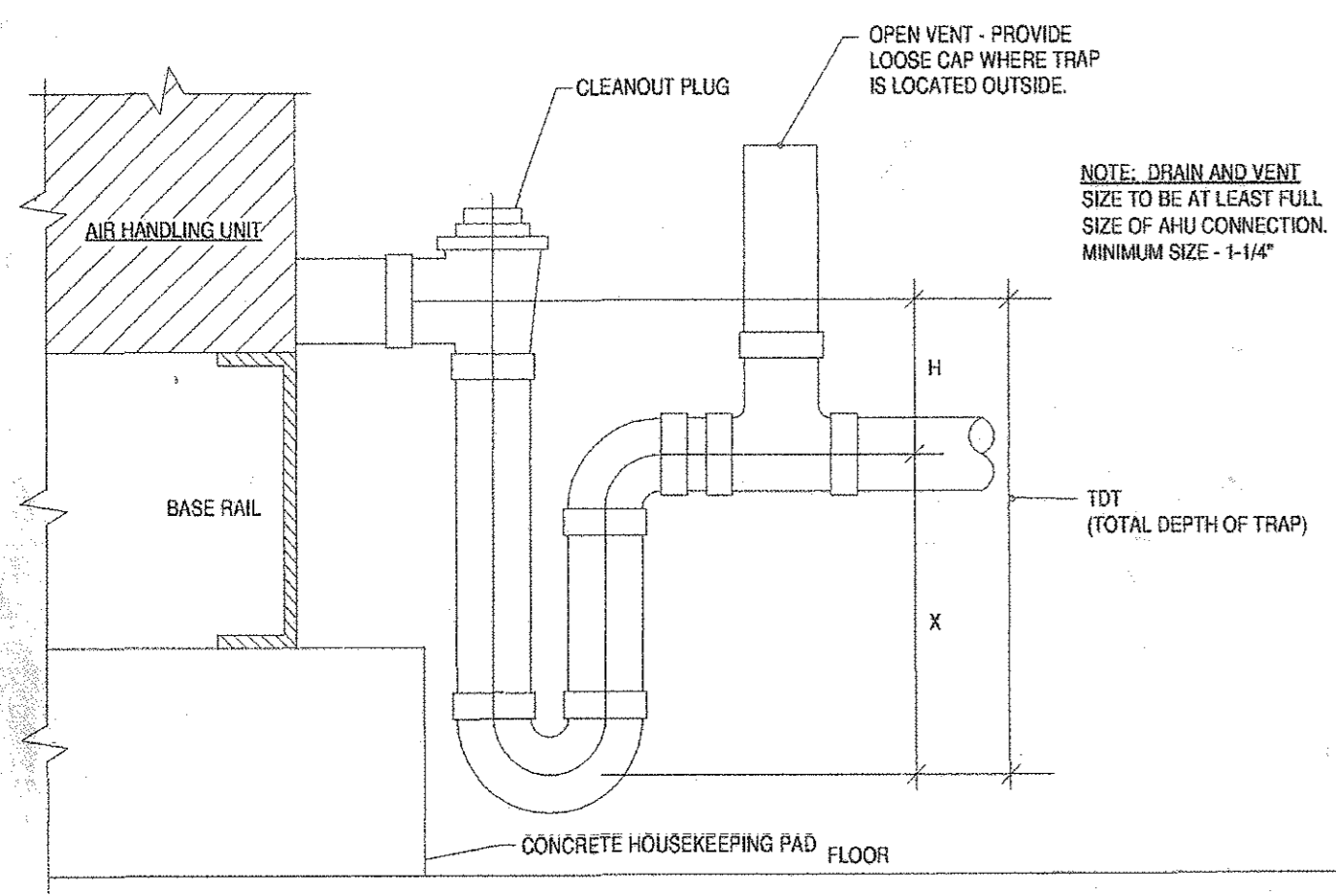
**2 HOT WATER COIL AT VAV BOX**  
 M301 NOT TO SCALE



**3 VAV BOX INSTALLATION DETAIL**  
 M301 NOT TO SCALE



**4 AHU-9 DETAIL**  
 M301 NOT TO SCALE



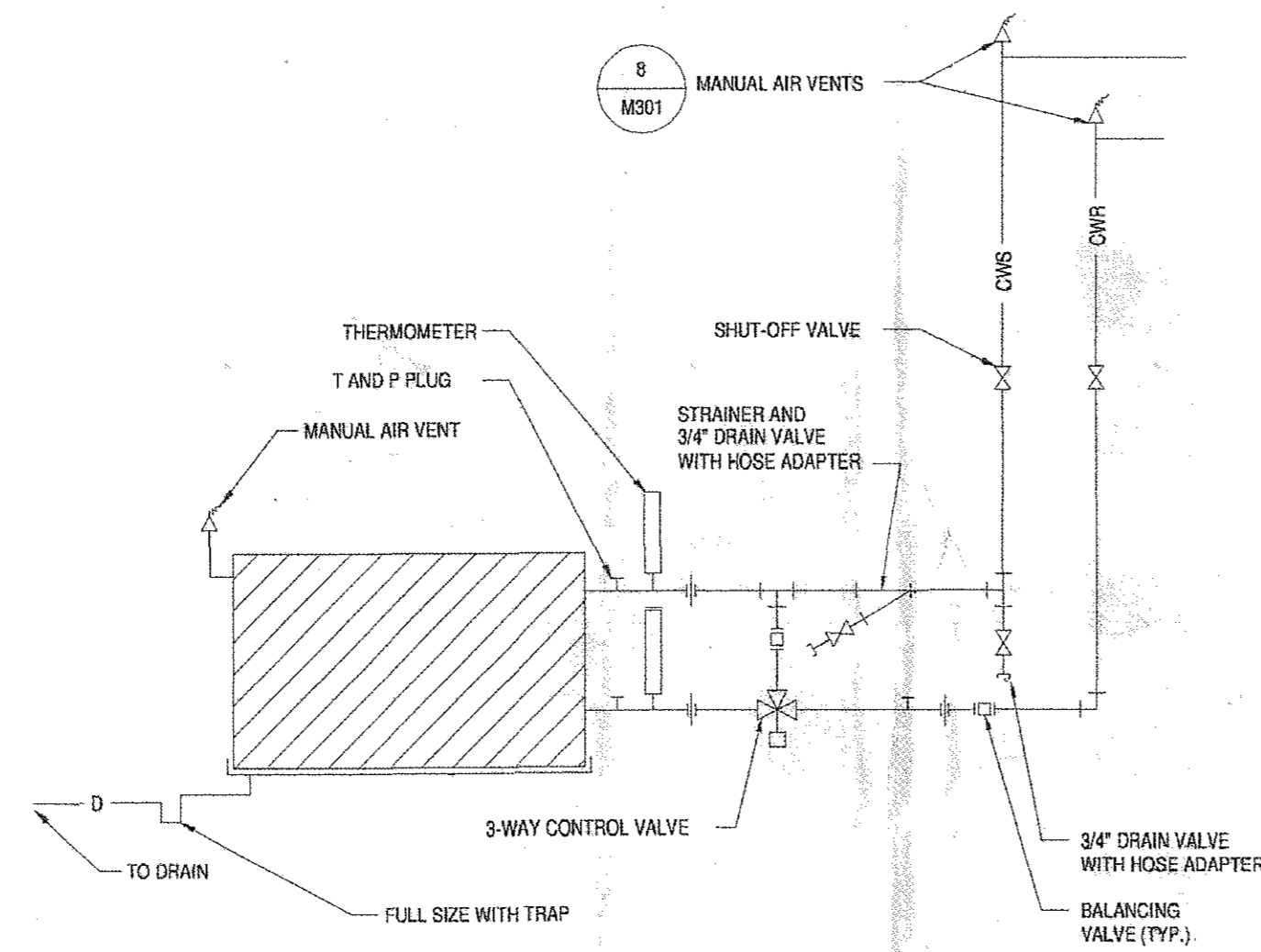
NOTE: DRAIN AND VENT SIZE TO BE AT LEAST FULL SIZE OF AHU CONNECTION. MINIMUM SIZE - 1-1/4"

POSITIVE PRESSURE SYSTEM  
 X= AT LEAST 1 INCH PLUS  
 CASING STATIC PRESSURE  
 H= AT LEAST 1 INCH  
 TOT= X + H x 1-1/2 PIPE D

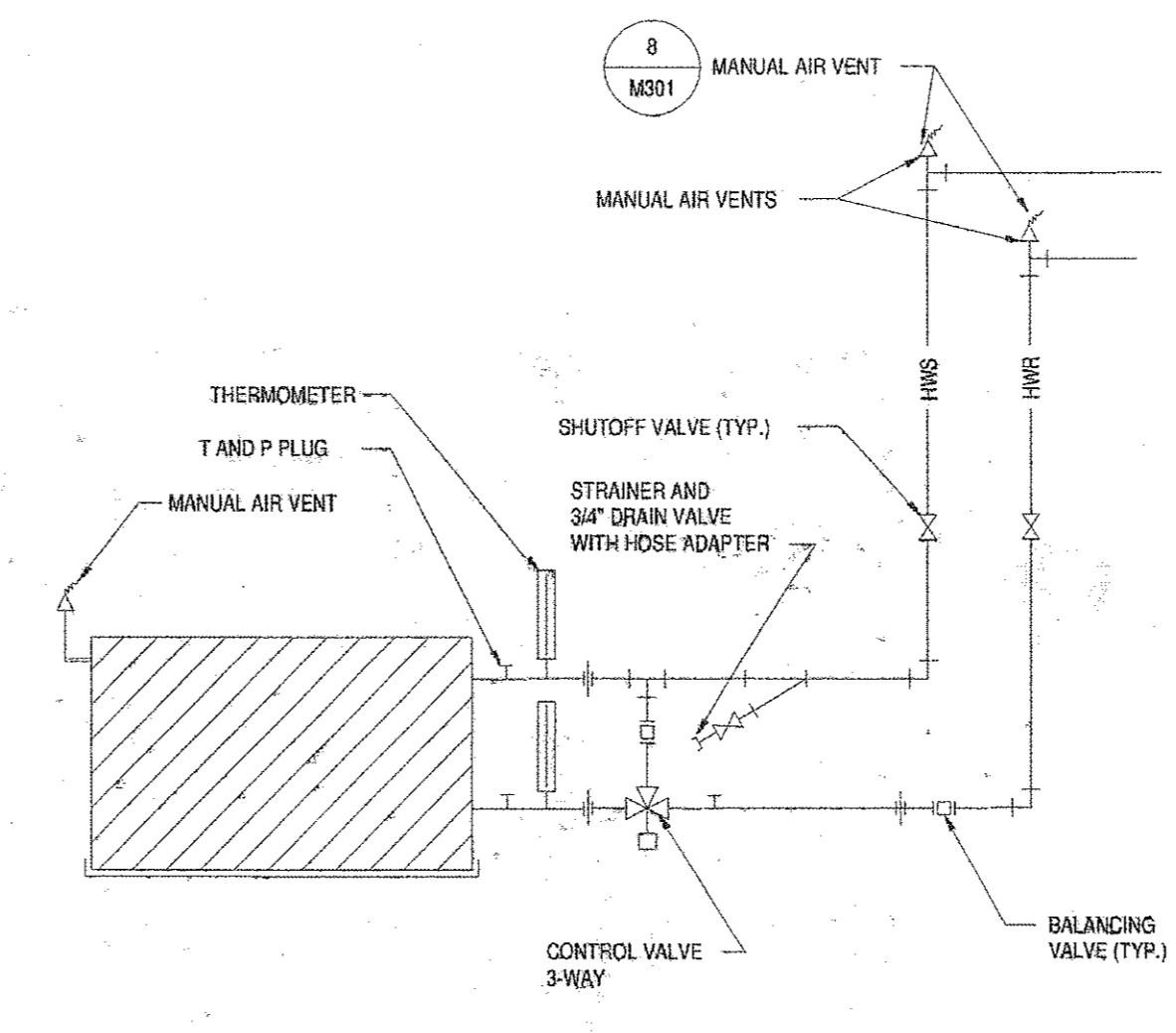
NEGATIVE PRESSURE SYSTEM  
 X= 12 H  
 H= AT LEAST 1 INCH PLUS  
 CASING STATIC PRESSURE  
 TOT= X + H x 1-1/2 PIPE D

(CONTRACTOR TO CONFIRM CASING STATIC PRESSURE WITH TBA AGENCY FOR ALL DRAINS ASSOCIATED WITH AIR HANDLING EQUIP.)

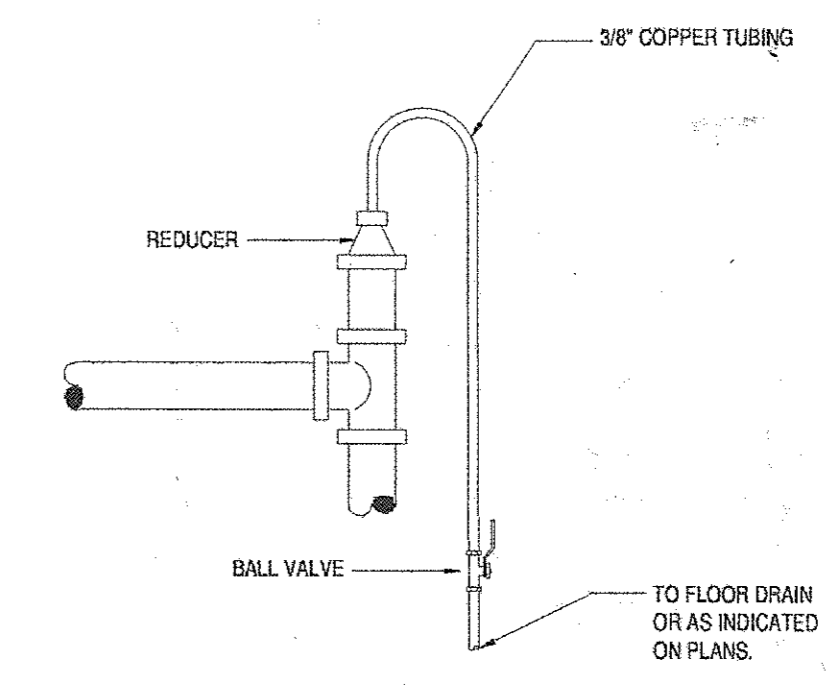
**5 CONDENSATE DRAIN TRAP**  
 M301 NOT TO SCALE



**6 CHILLED WATER COIL**  
 M301 NOT TO SCALE

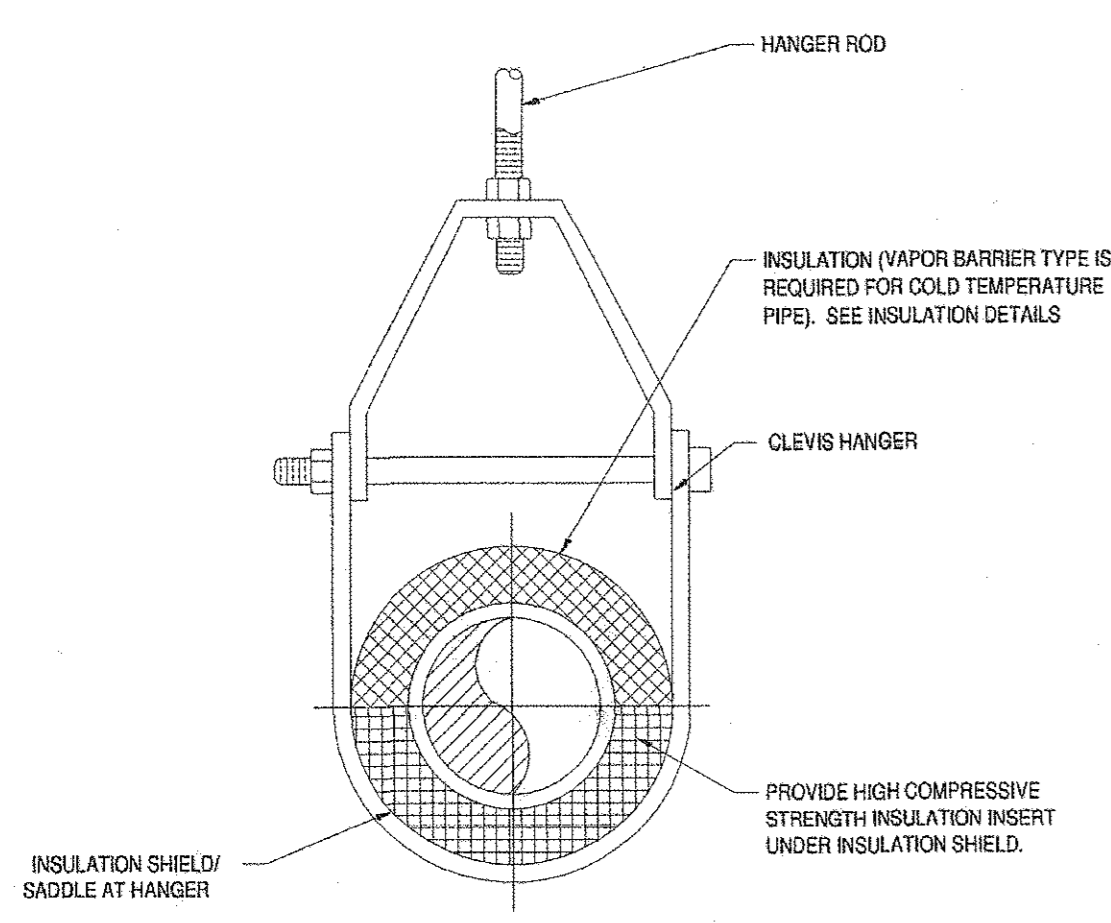


**7 HOT WATER COIL PIPING**  
 M301 NOT TO SCALE

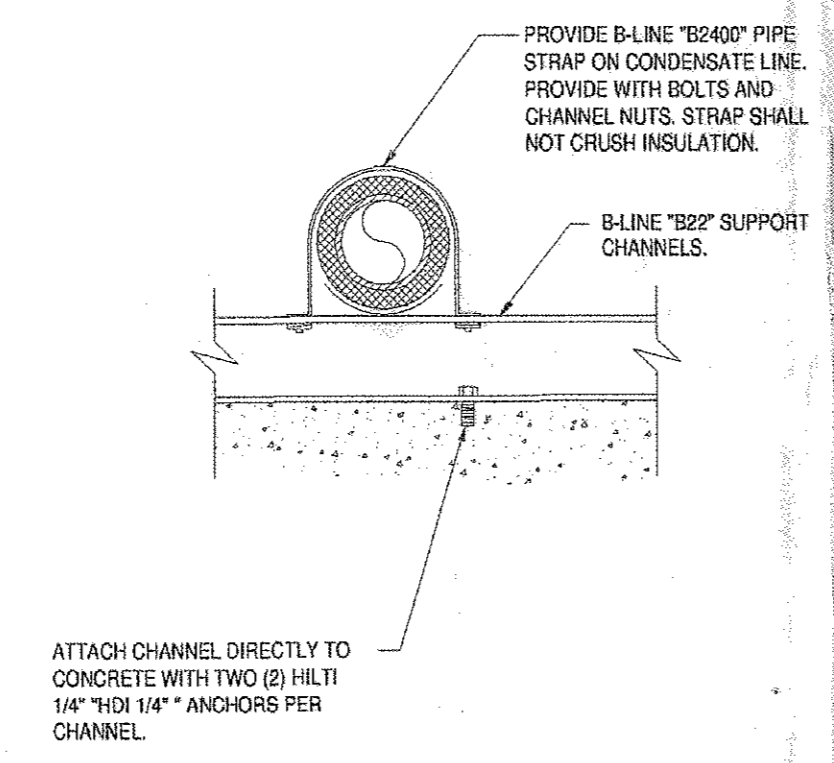


**MANUAL**  
 ABOVE FINISHED CEILING OR IN ACCESSIBLE LOCATIONS

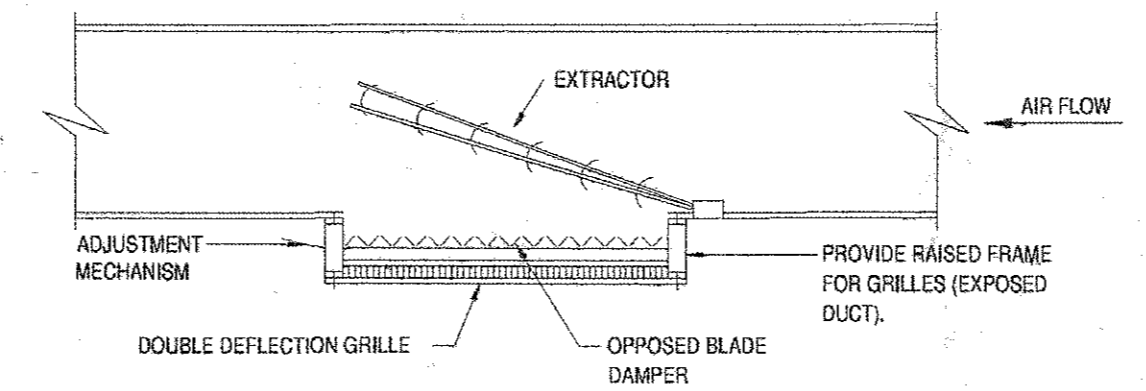
**8 AIR VENT**  
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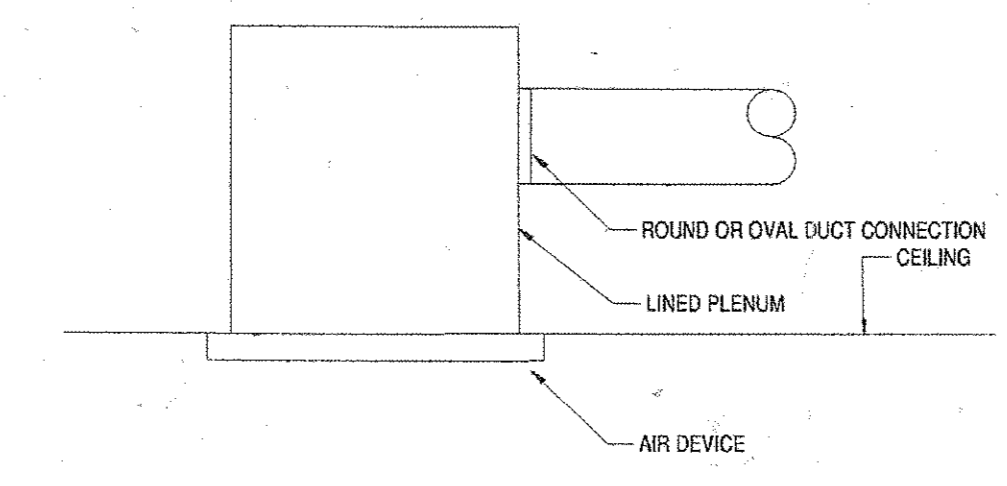
**9 ADJUSTABLE CLEVIS HANGER**  
 M301 NOT TO SCALE



**10 PIPING SUPPORT**  
 M301 NOT TO SCALE



**11 SUPPLY REGISTER**  
 M301 NOT TO SCALE



**12 PLENUM AT DIFFUSER**  
 M301 NOT TO SCALE

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 Project No: 1210 Date: 04/27/12  
 Sheet No: M301



**TERMINAL UNITS (OWNER FURNISHED / CONTRACTOR INSTALLED)**

MARK	AIR UNIT SERVED	INLET SIZE	CFM		MAX SP	SOUND DATA NC		HEATING COIL DATA						MANUFACTURER & MODEL NO.	REMARKS: REFER TO PLANS FOR RH AND LH UNIT CONFIGURATIONS	
			MAX	MIN		RADIATED 0.75" SP	DISCHARGE 0.75" SP	HEATING CFM	EAT/LAT °F	MBH	APD IN. WG	GPM	EWT/LWT			WPD FT H2O
VAV-1	AHU-9	6"	390	115	0.75"	30	34	195	55/110	11.34	0.388	0.5	180/135	0.18	TRANE VCVF06	2 ROW COIL
VAV-2	AHU-9	12"	1300	390	0.75"	26	24	650	55/95	28.28	0.217	2.74	180/159	4.05	TRANE VCVF12	1 ROW COIL
VAV-3	AHU-9	10"	1160	350	0.75"	30	29	580	55/95	25.16	0.489	0.89	180/124	0.19	TRANE VCVF10	2 ROW COIL
VAV-4	AHU-9	12"	1200	360	0.75"	24	22	600	55/95	26.03	0.189	2.07	180/155	2.43	TRANE VCVF12	1 ROW COIL
VAV-5	AHU-9	12"	1270	390	0.75"	25	22	635	55/95	27.55	0.208	2.49	180/158	3.41	TRANE VCVF12	1 ROW COIL
VAV-6	AHU-9	12"	1180	355	0.75"	24	22	590	55/95	25.51	0.183	1.94	180/154	2.17	TRANE VCVF12	1 ROW COIL
VAV-7	AHU-9	12"	1180	355	0.75"	24	22	590	55/95	25.51	0.183	1.94	180/154	2.17	TRANE VCVF12	1 ROW COIL
VAV-8	AHU-9	12"	1180	355	0.75"	24	22	590	55/95	25.51	0.183	1.94	180/154	2.17	TRANE VCVF12	1 ROW COIL

**VARIABLE FREQUENCY DRIVES (OWNER FURNISHED / CONTRACTOR INSTALLED)**

MARK	LOCATION	SERVES	HP	VOLTS/ PHASE	MANUFACTURER & MODEL NO. OR EQUAL	REMARKS
VFD-1	STAGE	AHU-9	7.5	208/3	SEE NOTE 1	PROVIDE DRIVE WITH INTEGRAL DISCONNECT.

NOTES  
1. DRIVE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

**AIR DEVICE**

MARK	USE	TYPE	STYLE	FACE SIZE	NECK SIZE	AIR FLOW DATA			OPTIONS			MANUFACTURER & MODEL NO. OR EQUAL	REMARKS
						MAX CFM	MAX S.P.	MAX N.C.	DAMPER TYPE	FINISH	MATERIAL		
CD	SUPPLY	CEILING DIFFUSER	LOUVER	24/24	SEE PLANS	300	0.18	25	---	WHITE	STEEL	TITUS TDG	FIELD CONSTRUCT AND MOUNT LINED PLENUM BOX
LSD	SUPPLY	LINEAR SLOT	PLENUM	48/6	SEE PLANS	450	0.12	25	---	WHITE	ALUMINUM	TITUS ML-39	4 SLOT, 1" - SLOT SPACING. PROVIDE WITH LINED PLENUM
SWS	SUPPLY	SIDE WALL DIFFUSER	DOUBLE DEFLECTION	14/8	12/6	300	0.14	30	OBD	WHITE	STEEL	TITUS 350RL	
SWS	SUPPLY	SIDE WALL DIFFUSER	DOUBLE DEFLECTION	8/8	6/6	120	0.14	30	OBD	WHITE	STEEL	TITUS 350RL	
CR	RETURN	CEILING RETURN	EGGRATE	24/24	---	2300	0.14	25	---	WHITE	ALUMINUM	TITUS 50F	

**BUILDING AUTOMATION CONTROL DEVICES**

MARK	DEVICE	VENDOR	PART NO.	REMARKS
CD-1	DUCT TEMP SENSOR	KELE	ST-D3	CF/CI
CD-2	3/4" HW 3-WAY CONTROL VALVE	BELIMO	---	CF/CI
CD-3	ROOM HUMIDITY SENSOR	KELE	HW10K	CF/CI
CD-4	CO2 SENSOR (DUCT MOUNTED)	KELE	CD-AD	CF/CI
CD-5	2" CHW 3-WAY CONTROL VALVE	BELIMO	---	CF/CI
CD-6	CURRENT SENSOR	KELE	RIBXKF	CF/CI
CD-7	RELAY	KELE	RIBU1C	CF/CI
CD-8	1/2" HW 3-WAY CONTROL VALVE	BELIMO	---	CF/CI
CD-9	TRANSFORMER	---	RATED 75VA 120 TO 24 VAC	CF/CI
CD-10	THERMOSTAT	COMPUTROLS	SMARTSTAT	CF/CI
CD-11	VAV TERMINAL BOX CONTROLLER	COMPUTROLS	---	CF/CI
CD-12	AUTOMATION CONTROL SYSTEM	COMPUTROLS	---	CF/CI
CD-13	CO2 SENSOR (WALL MOUNTED)	KELE	---	CF/CI
CD-14	DUCT STATIC PRESSURE SENSOR	KELE	T-30	CF/CI
CD-15	DUCT HIGH STATIC LIMIT	KELE	P10BC-7	CF/CI

**CHILLED WATER COOLING COILS (OWNER FURNISHED / CONTRACTOR INSTALLED)**

MARK	LOCATION	SERVES	CFM	MAX FACE VEL. (FPM)	MAX A.P.D. (IN. WG)	CAPACITY (MBH)		EAT (°F)		LAT (°F)		WATER REQUIREMENTS				ROWS/ PPF	REMARKS	
						TOTAL	SENS.	DB	WB	DB	WB	GPM	FLUID	EWT (°F)	LWT (°F)			WPD (FT. WG)
CC-1	2ND FLOOR (STAGE)	AHU-9	7300	434	0.574	291.4	251.0	83.3	65.3	52.0	51.72	58	WATER	45	55	6.55	6/126	

**HOT WATER HEATING COILS (OWNER FURNISHED / CONTRACTOR INSTALLED)**

MARK	LOCATION	SERVES	CFM	MAX FACE VEL. (FPM)	MAX A.P.D. (IN. WG)	CAPACITY (MBH)		EAT (°F)		LAT (°F)		WATER REQUIREMENTS				ROWS/ PPF	REMARKS	
						TOTAL	DB	DB	DB	GPM	FLUID	EWT (°F)	LWT (°F)	WPD (FT. WG)				
HC-1	2ND FLOOR (STAGE)	AHU-9	7300	487	0.089	197.92		55.0		80.0		13.18	WATER	180	150	0.49	1/82	PRE-HEAT COIL

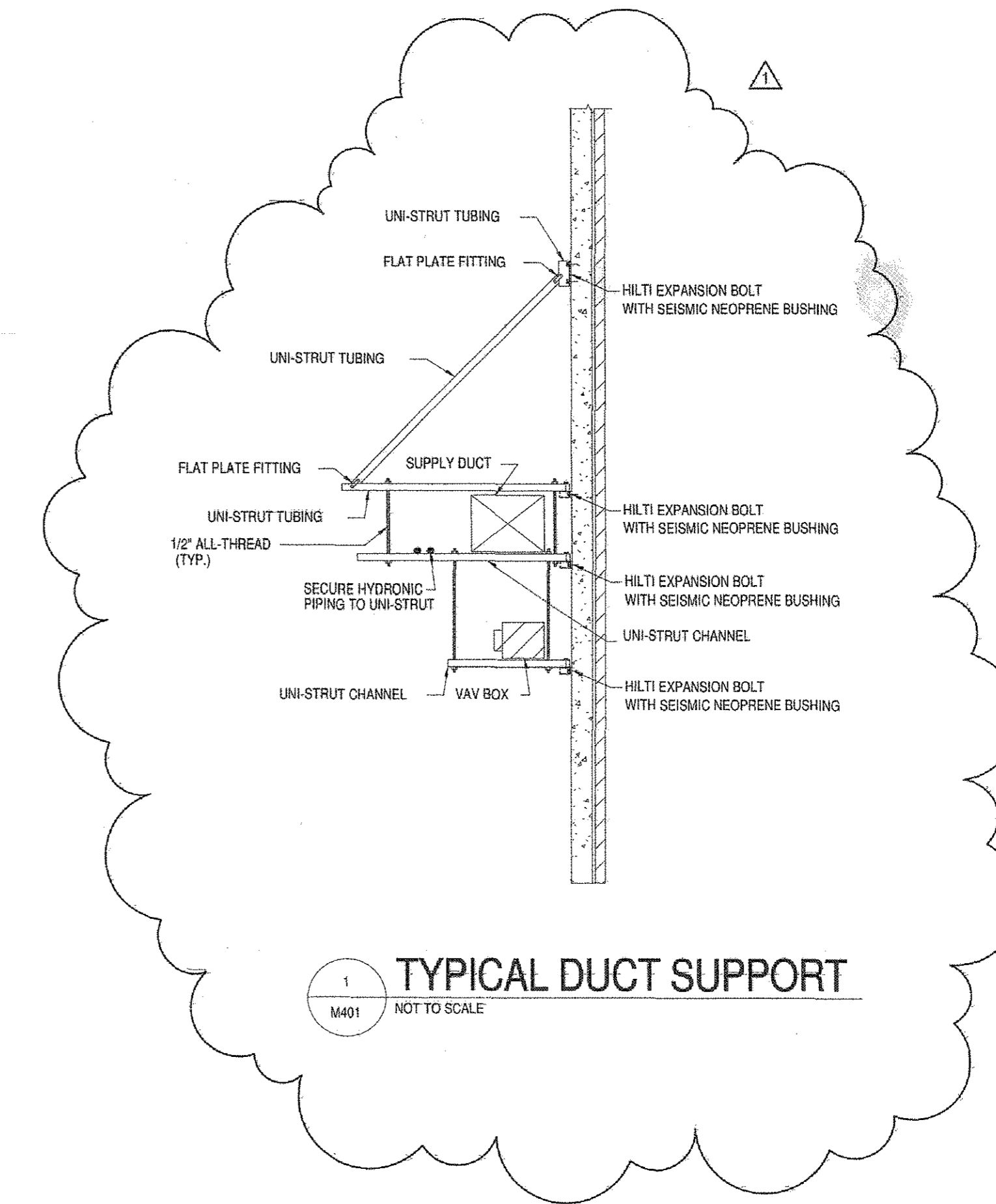
**AIR HANDLING UNITS (OWNER FURNISHED / CONTRACTOR INSTALLED)**

MARK	LOCATION	SERVES	UNIT AIRFLOW (CFM)	UNIT OSA (CFM)	ESP (IN. W.G.)	TYPE	FAN					MODULES REQUIRED BY POSITION	BASIS OF DESIGN	REMARKS	
							TYPE	DIA. (IN.)	RPM	DRIVE	HP				VOLTS/ PHASE
AHU-9	2ND FLOOR (STAGE)	IT STORE/ STAGE	7300	1040	2.0	CUSTOM MODULAR	AF, CLASS 1	20	1646	BELT	7.5	208/3	SEE NOTE 1	TRANE PCC17	NO FACTORY MOUNTED CONTROLS EXCEPT AS INDICATED IN NOTE 2. CONTROLS TO BE PROVIDED BY CONTRACTOR.

NOTE: 1

POSITION	MODULE	REMARKS
1	AIR MIXING	PROVIDE WITH RH DOOR, 2" FILTER FRAME, PLEATED MEDIA MERV8 FILTER, 1 EXTRA SET OF FILTERS, BACK PARALLEL BLADE RETURN AIR DAMPER, TOP TRAQ OUTSIDE AIR DAMPER, MARINE LIGHT-FIELD WIRED, FILTER DIFFERENTIAL PRESSURE GAUGE.
2	PRE-HEAT COIL (HC-1)	PROVIDE WITH RH COIL CONNECTION, RH DRAIN CONNECTION, RH DOOR, GALVANIZED DRAIN PAN.
3	COOLING COIL (CC-1)	PROVIDE WITH RH COIL CONNECTION, RH DRAIN CONNECTION, RH DOOR, STAINLESS STEEL DRAIN PAN.
4	FAN	PROVIDE WITH RH DOOR, RH WINDOW, TOP-BACK DISCHARGE, MARINE LIGHT-FIELD WIRED, EXTENDED GREASE LINES, 1 SPARE BELT SET.

NOTE: 2 - OUTSIDE AIR DAMPER ACTUATOR, RETURN AIR DAMPER ACTUATOR, MIXED AIR TEMPERATURE SENSOR, FREEZE/STAT, FILTER DIFFERENTIAL PRESSURE SENSOR, LEAVING AIR TEMP SENSOR, AIRFLOW SWITCH, AND CONDENSATE PUMP ARE TO BE FACTORY MOUNTED.



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ADDENDUM #2 - 5/14/12  
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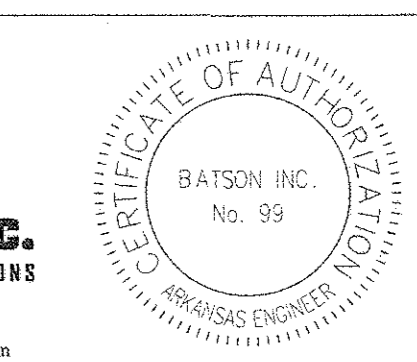
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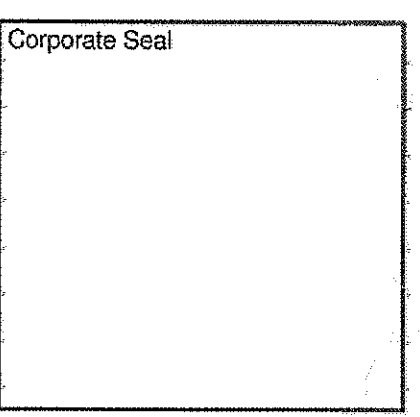
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1210  
Date:  
04/27/12  
Sheet No:  
**M401**



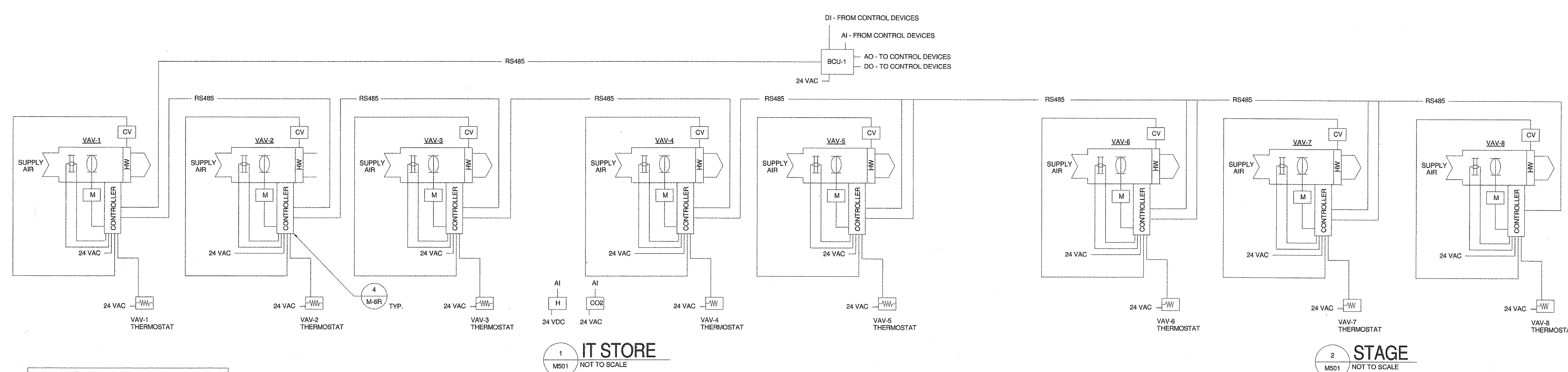
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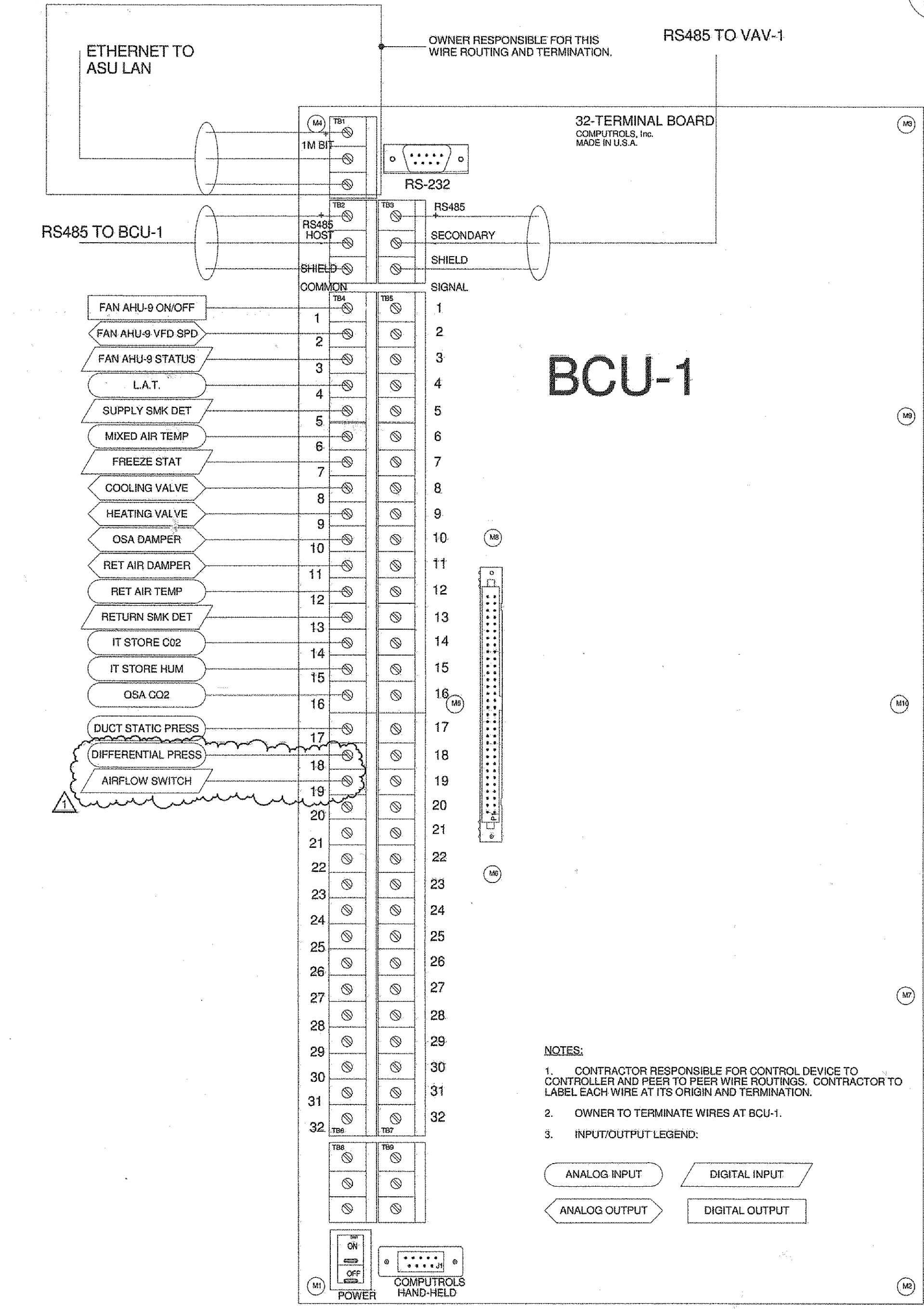


Sheet Name:  
 CONTROL SCHEMATICS  
 Project No: 1210 Date: 04/27/12  
 Sheet No:  
**M501**

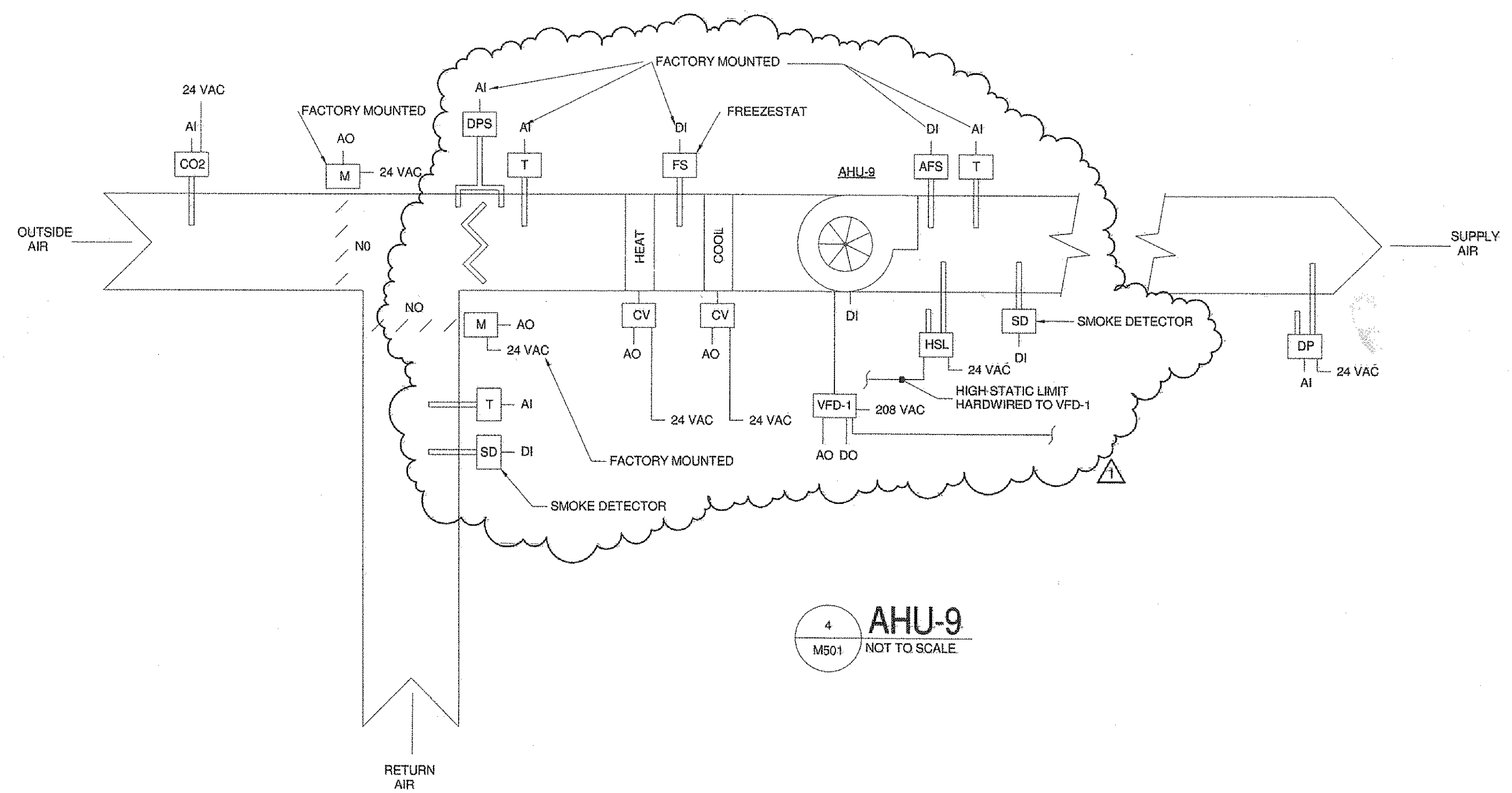


**1 IT STORE**  
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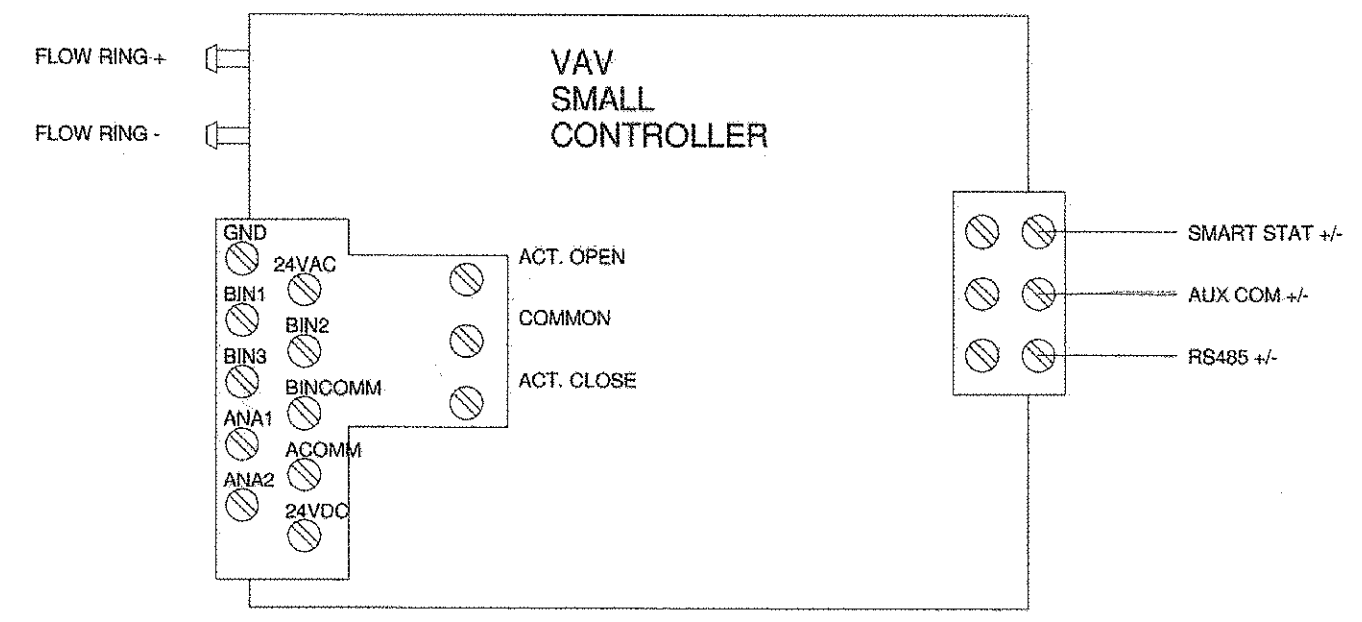
**2 STAGE**  
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**3 BCU-1 CONTROLLER SCHEMATIC**  
 M501 NOT TO SCALE

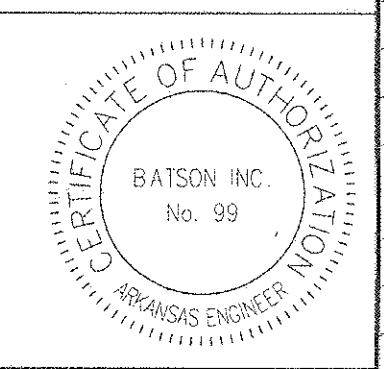
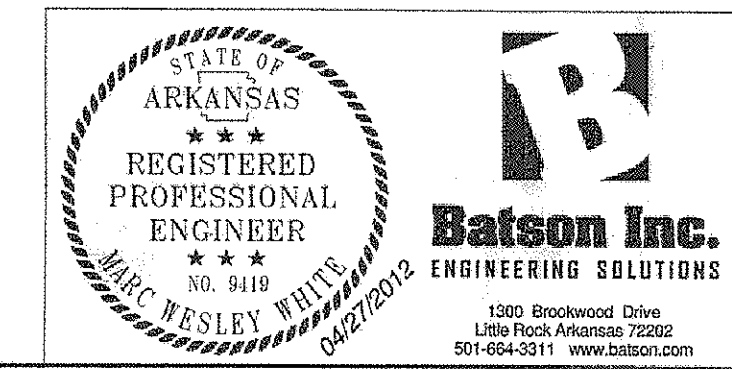
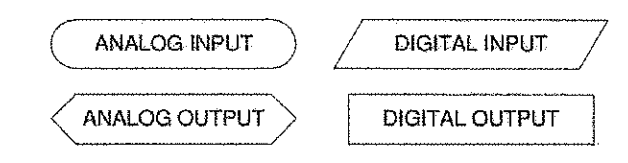


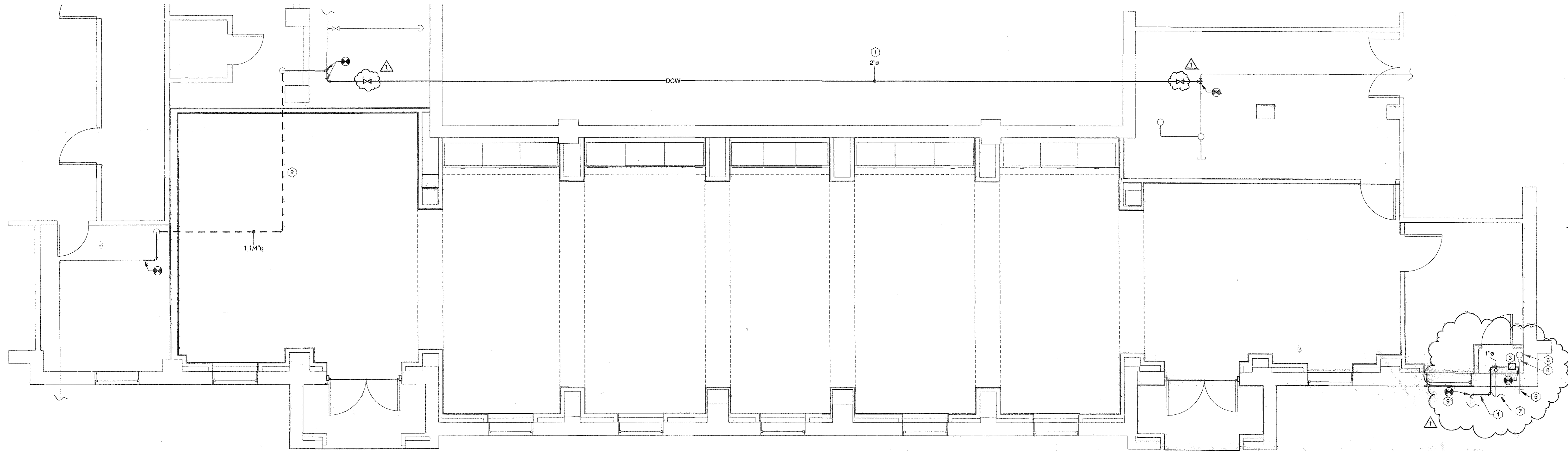
**4 AHU-9**  
 M501 NOT TO SCALE



**5 TYPICAL TERMINAL BOX CONTROLLER SCHEMATIC**  
 M501 NOT TO SCALE

NOTES:  
 1. CONTRACTOR RESPONSIBLE FOR CONTROL DEVICE TO CONTROLLER AND PEER TO PEER WIRE ROUTINGS. CONTRACTOR TO LABEL EACH WIRE AT ITS ORIGIN AND TERMINATION.  
 2. OWNER TO TERMINATE WIRES AT BCU-1.  
 3. INPUT/OUTPUT LEGEND:





1 PLUMBING RENOVATION PLAN - FIRST FLOOR  
 P101 1/4" = 1'-0" N

**KEYED NOTES**

- 1 NEW DOMESTIC WATER LINE ROUTED WITHIN CRAWL SPACE BELOW STAGE.
- 2 NEW DOMESTIC WATER LINE ROUTED BELOW NEW RAISED FLOOR.
- 3 NEW VERTICAL IRRIGATION RPZ BACKFLOW PREVENTOR TO BE A WATTS 909 SERIES AND SIZE OF 1". RECONNECT TO EXISTING DOMESTIC WATER LINE. RUN BLOW OFF TO EXISTING DRAIN IN WALL. RELOCATE BLOW OFF DRAIN IF NECESSARY FOR PROPER DRAINAGE.
- 4 NEW IRRIGATION WATER LINE TO PENETRATE WALL 6" ABOVE GRADE. SLEEVE AND SEAL WALL PENETRATION.
- 5 EXISTING HOSE BIBB.
- 6 EXISTING STORM RISER.
- 7 EXISTING BLOW OFF DRAIN FOR RPZ.
- 8 EXISTING DOMESTIC WATER LINE.
- 9 CONNECT NEW IRRIGATION WATER LINE TO EXISTING IRRIGATION SYSTEM. FIELD VERIFY EXACT LOCATION.

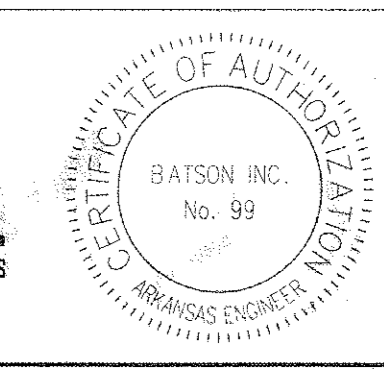
Revisions:  
 ADDENDUM #2 - 5/14/12  
 MW

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Sheet Name:  
 PLUMBING RENOVATION PLAN - FIRST FLOOR  
 Project No: 1210 Date: 04/27/12  
 Sheet No: P101

### ELECTRICAL GENERAL NOTES

- 1. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
- 2. REFER TO SPECIFICATIONS, SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY EXCEPT THAT, IN CASE OF CONFLICT, SPECIFICATIONS WILL GOVERN.
- 3. BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES), THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (MECHANICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF SUBSTITUTE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTOR'S OPTION.
- 4. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW, SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
- 5. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL GOVERNMENTAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH WORK; FILE ALL NECESSARY PLANS; PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION AND OBTAIN REQUIRED CERTIFICATES OF INSPECTION.
- 6. CONTRACTOR SHALL INCLUDE IN THE WORK ALL LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, ETC. IN ORDER TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES, AND REGULATIONS OF LOCAL, STATE AND FEDERAL GOVERNMENTS, WHETHER OR NOT SHOWN ON THE DRAWINGS.
- 7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY COMPONENT, DEVICE OR OPTION, THE EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE FINAL LOCATIONS SHALL BE ESTABLISHED IN THE FIELD TO FIT THE AVAILABLE SPACE.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK WITH THAT OF OTHER TRADES. EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS.
- 9. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- 10. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
- 11. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM.
- 12. ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. SEE ARCHITECTURAL SPECIFICATIONS OR DRAWINGS FOR LIST OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
- 13. CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS, POWER REQUIREMENTS, ROUTING, CONDUCTOR SIZE, AND CONDUCTOR COUNT PRIOR TO ROUGH-IN.
- 14. COORDINATE FINAL HEIGHTS AND LOCATIONS OF ALL DEVICES WITH MILLWORK, FURNITURE OR OTHER EQUIPMENT.
- 15. ALL DEVICES LOCATED IN SAME GENERAL LOCATION ON THE SAME WALL SHALL BE GROUPED AND ALIGNED HORIZONTALLY OR VERTICALLY, AS NECESSARY.
- 16. GROUPED SWITCHES SHALL BE GANG MOUNTED.
- 17. COLOR AND TYPE OF DEVICE COVER PLATES TO BE SELECTED BY ARCHITECT.
- 18. COORDINATE FRAMES AND ACCESSORIES FOR FIXTURE MOUNTING WITH ARCHITECTURAL FINISH SCHEDULE.
- 19. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
- 20. SEAL ALL ROOF AND WALL PENETRATIONS. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO BID FOR ALL REQUIRED FLASHINGS AT ROOF PENETRATIONS. MINIMUM HEIGHT OF FLASHING IS 8 IN. ABOVE ROOF.
- 21. SPECIAL CARE SHALL BE TAKEN ON THE ROOF TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.

### ELECTRICAL DEMOLITION NOTES

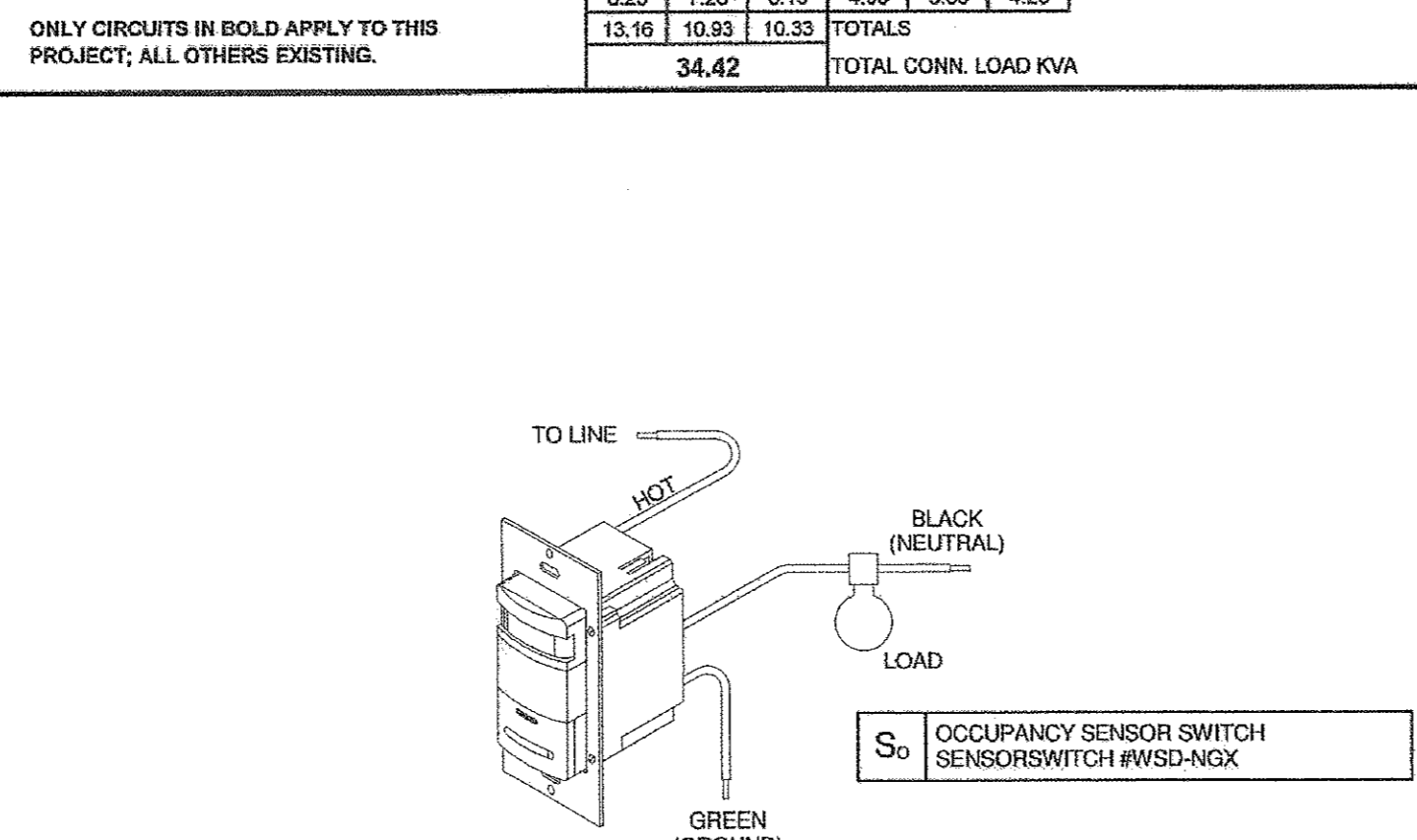
- 1. THE ELECTRICAL RELATED DEMOLITION WORK INDICATED ON THE PLANS, SPECIFICATIONS, AND NOTES IS TO BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE. NO DEMOLITION SHALL TAKE PLACE IN ANY AREA OR BUILDING UNTIL THE CONTRACTOR HAS BEEN GIVEN APPROVAL TO PROCEED IN THAT SPECIFIC LOCATION, REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE OF WORK.
- 2. IF, DURING DEMOLITION, IT BECOMES NECESSARY TO TEMPORARILY REMOVE ANY EQUIPMENT WHICH IS NOT SPECIFICALLY NOTED TO BE REMOVED (THEREBY IMPLYING THAT THEY ARE TO BE LEFT FOR FUTURE USE), THE CONTRACTOR SHALL REINSTALL SAID SYSTEMS TO FULLY OPERABLE CONDITION IN THEIR ORIGINAL LOCATIONS.
- 3. DISPOSE OF ALL REMOVED EQUIPMENT NOT INTENDED FOR REUSE AS DIRECTED BY THE OWNER OR OCCUPANT. CAREFULLY REMOVE, STORE AND REUSE ITEMS INDICATED ON THE PLANS.
- 4. OBTAIN ALL PERMITS AND PAY ALL FEES.
- 5. ALL DEMOLITION WORK SHALL BE SCHEDULED WITH THE OWNER OR OCCUPANT AT LEAST FIVE DAYS PRIOR TO THE WORK.
- 6. SCHEDULE UTILITY DOWNTIMES TO A MINIMUM AND TO NOT INTERFERE WITH THE DAILY SCHEDULE, IF POSSIBLE. COORDINATE ALL SHUTDOWN TIMES WITH THE OWNER A MINIMUM OF FIVE DAYS IN ADVANCE.
- 7. PATCH ALL OPENINGS IN WALLS, FLOORS, CEILINGS MADE FOR ACCESS TO THE EXISTING EQUIPMENT OR FOR INSTALLATION OF THE NEW SYSTEMS.
- 8. ANY DAMAGE TO THE OWNER'S PROPERTY, BUILDING OR EQUIPMENT RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
- 9. MAINTAIN THE SECURITY OF THE BUILDINGS AT ALL TIMES.
- 10. MAINTAIN THE FIRE AND SMOKE CONSTRUCTION INTEGRITY OF THE EXISTING BUILDING.
- 11. IF, DURING THE COURSE OF THE WORK, MATERIAL WHICH MAY CONTAIN ASBESTOS IS DISCOVERED, STOP WORK IMMEDIATELY AND COMPLY WITH EPA REGULATIONS TO PROTECT WORKERS AND OCCUPANTS. NOTIFY OWNER AND ENGINEER.
- 12. WORK REQUIRED IN THE AREAS OUTSIDE OF THE FLOOR AREA FOR ELECTRICAL WORK SHALL BE SCHEDULED WITH THE OWNER OR OCCUPANT AT LEAST FIVE DAYS IN ADVANCE.
- 13. PARTS OF THE EXISTING POWER AND SYSTEMS WILL REMAIN IN OPERATION DURING THE RENOVATIONS.
- 14. REMOVE ABANDONED ELECTRICAL SYSTEMS WHERE EVER POSSIBLE.

### ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	2X4 LAY-IN OR SURFACE-MOUNTED FIXTURE	S <sub>M</sub>	MANUAL MOTOR STARTER SWITCH	[Symbol]	SMOKE DETECTOR
[Symbol]	2X2 LAY-IN OR SURFACE-MOUNTED FIXTURE	[Symbol]	DUPLEX RECEPTACLE	S <sub>DA</sub>	DUCT SMOKE DETECTOR WITH AUXILIARY CONTACTS
[Symbol]	SURFACE, STRIP OR PENDANT-MOUNTED FIXTURE	[Symbol]	QUADRAPLEX RECEPTACLE	[Symbol]	HEAT DETECTOR
[Symbol]	WALL-MOUNTED SURFACE OR STRIP FIXTURE	[Symbol]	SPECIALTY RECEPTACLE	[Symbol]	DOOR HOLDER
[Symbol]	SURFACE-MOUNTED OR RECESSED CAN LIGHT FIXTURE	[Symbol]	FLOOR RECEPTACLE	[Symbol]	FIRE ALARM PULL STATION
[Symbol]	WALL-MOUNTED SURFACE FIXTURE	[Symbol]	FLOOR BOX	[Symbol]	FIRE ALARM SIGNAL DEVICE / PAGING
[Symbol]	CEILING-MOUNTED EXIT LIGHT; SHADING INDICATES FACES CHEVRONS AS SHOWN ON PLANS	[Symbol]	JUNCTION BOX (FLUSH MOUNTED)	[Symbol]	FIRE ALARM STROBE DEVICE
[Symbol]	WALL-MOUNTED EXIT LIGHT; SHADING INDICATES FACES CHEVRONS AS SHOWN ON PLANS	[Symbol]	HOMERUN: HOT, NEUTRAL, GROUND	[Symbol]	ZAM FIRE ALARM DEVICE: CONTROL, MONITOR, IAM
S	SINGLE-POLE SWITCH	[Symbol]	DISCONNECT SWITCH	[Symbol]	FIRE ALARM TAMPER / FLOW SWITCHES
S <sub>3</sub>	THREE-WAY SWITCH	[Symbol]	FUSED DISCONNECT SWITCH	[Symbol]	SECURITY CAMERA
S <sub>4</sub>	FOUR-WAY SWITCH	[Symbol]	COMBINATION STARTER / FUSED SWITCH	[Symbol]	CARD READER
S <sub>D</sub>	DIMMER SWITCH	[Symbol]	MOTOR STARTER	[Symbol]	PAGING SPEAKER (BOX ONLY)
S <sub>O</sub>	OCCUPANCY SENSOR SWITCH	[Symbol]	PUSH BUTTON	[Symbol]	KEYPAD (BOX ONLY)
S <sub>LV</sub>	LOW VOLTAGE SWITCH	[Symbol]	TELEPHONE / DATA OUTLET	a	INDICATES ABOVE COUNTER
[Symbol]	CEILING-MOUNTED LOW VOLTAGE OCCUPANCY SENSOR	[Symbol]	WALL-MOUNTED TELEPHONE OUTLET	GFI	INDICATES GROUND FAULT PROTECTION
[Symbol]	CEILING-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	[Symbol]	CABLE TV OUTLET	WP	INDICATES WEATHER RESISTANT
[Symbol]	OCCUPANCY SENSOR POWER PACK			TP	INDICATES TAMPER RESISTANT
				ER	INDICATES EXISTING RELOCATED DEVICE

### PANELBOARD SCHEDULE

Panel Name: EXISTING "PP1"		Volts: 120/208		Mains: 225A		Fed From: EX. SWBD				Interrupting Rating: 10kAIC	
TYPE: SQUARE D "QO"		phase:	wire:	hugs:	breaker:	surface:	flush:	top:	bottom:	COPPER BUS GROUND BAR	
		3	4	X		X		X			
SECTION 1 BRANCH BREAKERS											
ITEM	CKT BKR	LOAD (KVA)	LOAD (KVA)	LOAD (KVA)	LOAD (KVA)	CKT NO.	CKT BKR	ITEM			
L LIGHTS CLASSROOM TROFFERS	201 1	1.62	0.80	0.60	1.33	2	201	LIGHTS CLASSROOM CAN LIGHTS	L		
L LIGHTS CLASSROOM TROFFERS	201 3	0.80	0.80	0.80		4	201	RECPTS PROJECTOR	R		
R RECPTS CLASSROOM SOUTH WALL	201 5	0.60	0.60	0.60	1.00	6	201	RECPTS PROJECTION SCREEN	R		
R RECPTS SOUTH WALL & LECTERN	201 7	0.80	0.80	0.80		8	201	RECPTS CLASSROOM WEST WALL	R		
R RECPTS CLASSROOM EAST WALL	201 9	0.80	0.80	0.80		10	201	RECPTS CLASSRM WEST & STOR.	R		
R RECPTS CLASSRM EAST & STOR.	201 11	0.80	0.80	0.80	0.30	12	201	LIGHTS STEP LIGHTS	L		
S SPARE	201 13	0.00	0.00	0.00		14	201	SPARE	S		
L LTS STORE 101, STOK 102, OFF	201 15	1.27	0.12	0.54	0.30	16	201	LTS STORE 101 ACCENT LTS	S		
L LTS MECH PUMP ROOM	201 17	1.00	0.80	0.80		18	201	RECPTS STOR 101 MILLWORK EAST	S		
R RECPTS STORE 101, STOK 102	201 19	1.20	0.60	1.20		20	201	RECPTS OFFICE 103	S		
R RECPTS STORE 101 ABOVE CENTER	201 21	0.60	0.60	1.20		22	201	RECPTS STORE 101 FLOOR BOXES	S		
R RECPTS STORE 101 SOUTH WALL	201 23	1.20	1.20	1.20	1.20	24	201	RECPTS STORE 101 FLOOR BOXES	S		
R RECPTS STORE 101 SOUTH WALL	201 25	1.20	1.20	0.40		26	201	RECPTS MODULAR BOXES	S		
R RECPTS STORE 101 SOUTH WALL	201 27	0.60	0.60	0.40		28	201	RECPTS MECH PUMP ROOM	S		
M MECHANICAL ROOM PUMP (1ST FLOOR)	303 29	5.41	0.80	0.50		30	201	MECHANICAL PUMP CONTROLS	M		
M	31	3.41	0.80			32	201	AHU RECPT & VAV CONTROL POWER	M		
M	33	4.41	0.31			34	201	AHU LED LIGHT	M		
S SPARE	201 35	0.00	0.00	0.60		36	201	BUILDING CONTROL UNIT	M		
S SPARE	201 37	0.00	0.00			38	201	SPARE	S		
S SPARE	201 39	0.00	0.00			40	201	SPARE	S		
S SPARE	201 41	0.00	0.00	0.00		42	201	SPARE	S		
TOTALS		8.23	7.28	5.13	4.93	3.85	4.20				
TOTALS		13.16	10.93	10.33	34.42		TOTAL CONN. LOAD KVA				

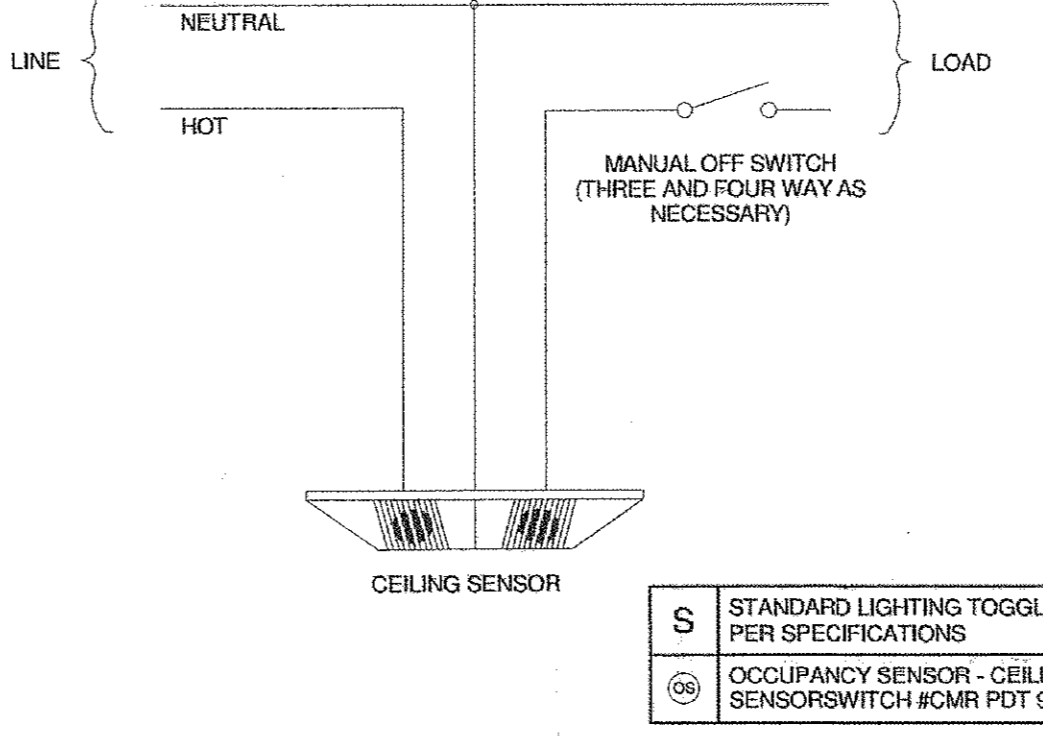


### WALL OCC. SENSOR SWITCH DETAIL

NOTES:  
1. CONTRACTOR SHALL SET OCCUPANCY SENSOR SWITCH SETTINGS FOR MANUAL ON/OFF AND AUTOMATIC OFF OPERATION.

### LIGHTING FIXTURE SCHEDULE

ID	MANUFACTURER	MODEL NO.	VOLTAGE	REQUIRED LAMPS	NUM.	TYPE	MOUNTING	DESCRIPTION
A	LITHONIA	2RTL4-48L-D49-LP835	120	-	-	LED W/ UNIT	RECESSED	2X4 RECESSED INDIRECT LED FIXTURE
AE	LITHONIA	2RTL4-48L-D49-LP835-EL14L	120	-	-	LED W/ UNIT	RECESSED	2X4 RECESSED INDIRECT LED FIXTURE W/ EMERGENCY BALLAST
B	LITHONIA	ST8-232-MVOLT-GE810IS	120	2	2	F32T8/835/ALTO	SURFACE	1X4 SURFACE VOLUMETRIC FLUORESCENT FIXTURE
C	BRUCK	102-642-**	120	-	-	LED W/ UNIT	WALL	WALL-MOUNTED DECORATIVE LED SCOCNE
D	GOTHAM	ALED8-35/38-4AR-120	120	-	-	LED W/ UNIT	RECESSED	4" RECESSED CAN LIGHT LED FIXTURE
F	BRUCK	222-642-**-NP	120	-	-	LED W/ UNIT	PENDANT	DECORATIVE PENDANT LED FIXTURE
G	GOTHAM	HOPP-42TRT-SWTR-MVOLT-S-***RC120-EL	120	-	-	42W CFL/TRT/835/ALTO	PENDANT	8" PENDANT MOUNTED FLUORESCENT PENDANT FIXTURE W/ EMERGENCY BALLAST
X	LITHONIA	SOLO-L-RMR-SD	120	-	-	LED W/ UNIT	WALL	EXIT LIGHT - SINGLE FACE - WALL MOUNTED

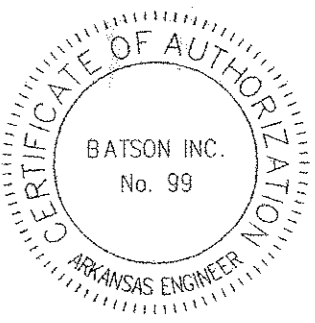


### LINE VOLTAGE CEILING OCC. SENSOR DETAIL

NOTES:  
1. CONTRACTOR SHALL SET OCCUPANCY SENSOR SWITCH SETTINGS FOR MANUAL ON/OFF AND AUTOMATIC OFF OPERATION.

### ELECTRICAL SHEET INDEX

E100	ELECTRICAL SCHEDULES, DETAILS, & NOTES
E101	FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
E102	SECOND FLOOR DEMOLITION PLAN - ELECTRICAL
E201	FIRST FLOOR RENOVATION PLAN - LIGHTING
E202	FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS
E203	SECOND FLOOR RENOVATION PLAN - ELECTRICAL



Revisions:

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# CahoonSteeling

## Studio

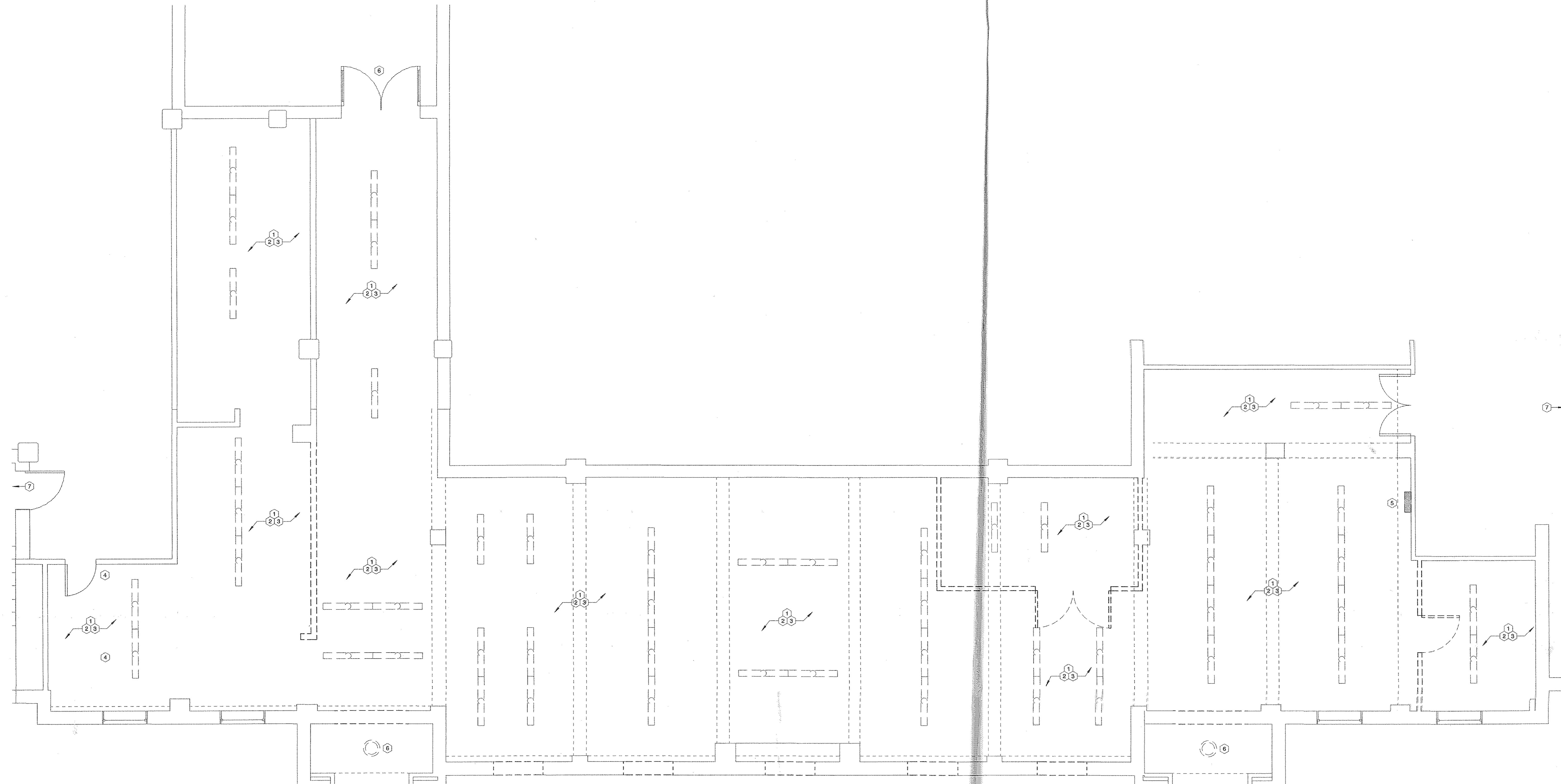
### Architecture

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Sheet Name:  
ELECTRICAL SCHEDULES, DETAILS, & NOTES  
Project No:  
1210  
Date:  
04/27/12  
Sheet No:  
**E100**

Revisions:

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1 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL  
E101 1/4" = 1'-0"

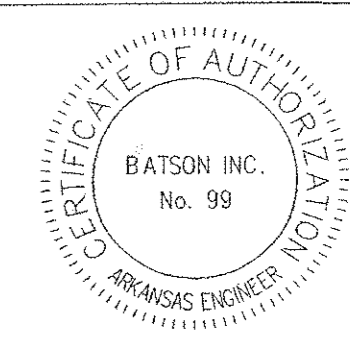
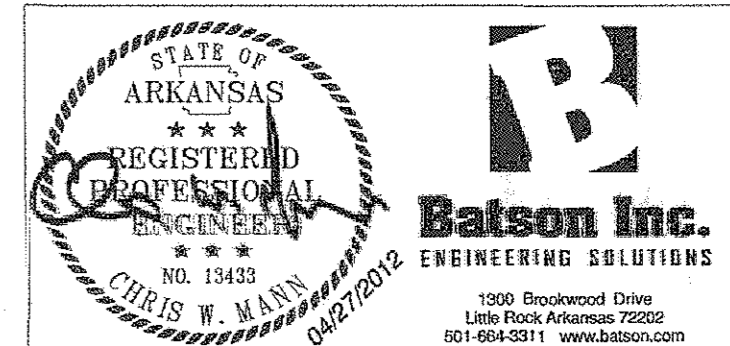
**GENERAL DEMOLITION NOTES**

1. CONTRACTOR TO MAINTAIN CONTINUITY TO ALL OTHER CIRCUITS IN SURROUNDING AREAS THAT MAY BE AFFECTED DURING CONSTRUCTION.
2. WHERE EXISTING CIRCUITS ARE PARTIALLY DEMOED DUE TO THE LIMITS OF CONSTRUCTION, REMOVE ALL CONDUIT AND WIRE BACK TO NEAREST JUNCTION BOX AT THE CONSTRUCTION LIMITS.
3. UPDATE ALL EXISTING PANEL SCHEDULES ACCORDINGLY.
4. ANY SHUT DOWN TIMES OF EQUIPMENT THAT AFFECT OTHER AREAS OF THE BUILDING SHALL BE COORDINATED WITH THE OWNER A MINIMUM OF 5 DAYS IN ADVANCE. WORK SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS AS REQUIRED TO PERFORM THE ASSOCIATED WORK.

**KEYED DEMOLITION NOTES**

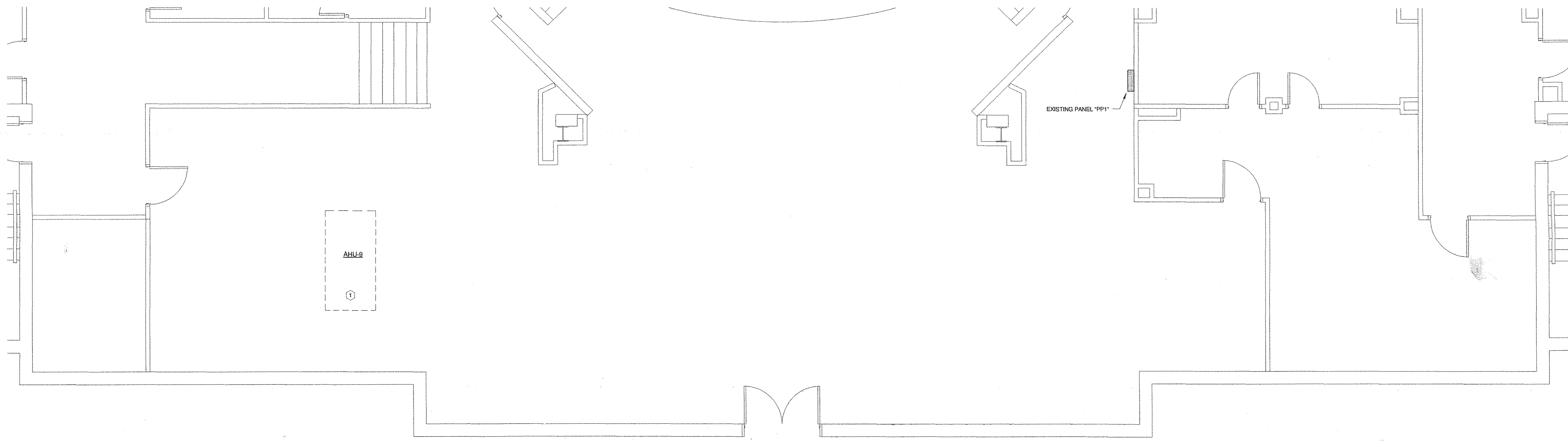
1. REMOVE EXISTING LIGHTING FIXTURES, EXIT LIGHTS, CONDUIT AND WIRE BACK TO SERVING PANEL.
2. REMOVE ALL EXISTING WIRING DEVICES, LIGHTING SWITCHES, DISCONNECTS, CONDUIT AND WIRE BACK TO SERVING PANEL.
3. REMOVE ALL EXISTING FIRE ALARM DEVICES, CONDUIT AND WIRE BACK TO NEAREST JUNCTION BOX LOCATED OUTSIDE OF CONSTRUCTION LIMITS.
4. EXISTING PUMP FEEDER AND PUMP CONTROLS CIRCUITS TO BE DEMOLISHED FROM EXISTING PANEL "J" TO THE POINT THE CIRCUITS ARE INTERCEPTED FROM EXISTING PANEL "PP1". INSTALL NEW JUNCTION BOXES TO RE-USE AND RE-FEED CIRCUITS. CONTRACTOR MUST RE-ROUTE EXISTING PUMP FEEDER AND PUMP CONTROLS CIRCUITS TO CONCEAL ABOVE NEW CEILINGS.
5. EXISTING PANEL "J" TO BE REMOVED. REMOVE ALL BRANCH CIRCUITS AND ASSOCIATED CONDUIT AND WIRE OUT TO DEVICES, LIGHTING FIXTURES, AND EQUIPMENT. EXISTING PUMP FEEDER AND PUMP CONTROLS CIRCUITS ARE TO BE RE-FED FROM EXISTING PANEL "PP1". RETAIN EXISTING PANEL "J" FEEDER FOR NEW AIR HANDLING UNIT FEED ON SECOND LEVEL. SEE FIRST FLOOR RENOVATION PLAN FOR ADDITIONAL REQUIREMENTS.
6. REMOVE EXISTING LIGHTING FIXTURE. RE-USE EXISTING BACKBOX TO INSTALL NEW FIXTURE. SEE RENOVATION LIGHTING PLAN FOR ADDITIONAL REQUIREMENTS.
7. EXISTING CONDUIT AND WIRE FOR LIGHTING FIXTURES LOCATED OUTSIDE STAIRWELLS TO REMAIN. RE-CONNECT TO NEW LIGHTING CIRCUIT AS INDICATED ON RENOVATION LIGHTING PLAN.

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FIRST FLOOR DEMOLITION  
PLAN - ELECTRICAL  
Project No: 1210 Date: 04/27/12  
Sheet No: E101



**KEYED DEMOLITION NOTES**

① REMOVE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE AIR HANDLING UNIT TO BE DEMOLISHED. REMOVE FEEDER BACK TO NEAREST JUNCTION BOX AND CAP ENDS OF THE CONDUCTORS. ABANDON FEEDER IN PLACE. TURN OFF BREAKER AT MAIN SWITCHBOARD AND LABEL AS SPARE.

**1 SECOND FLOOR DEMOLITION PLAN - ELECTRICAL**  
 E102 1/4" = 1'-0"

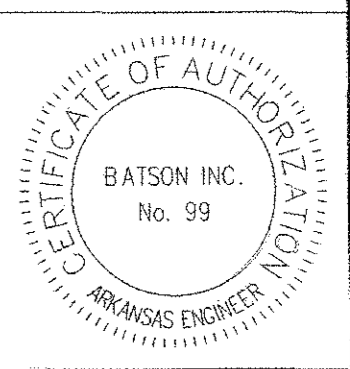
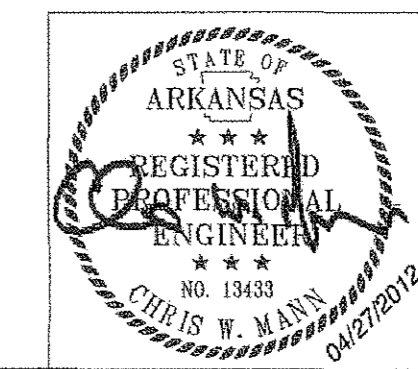
Revisions:

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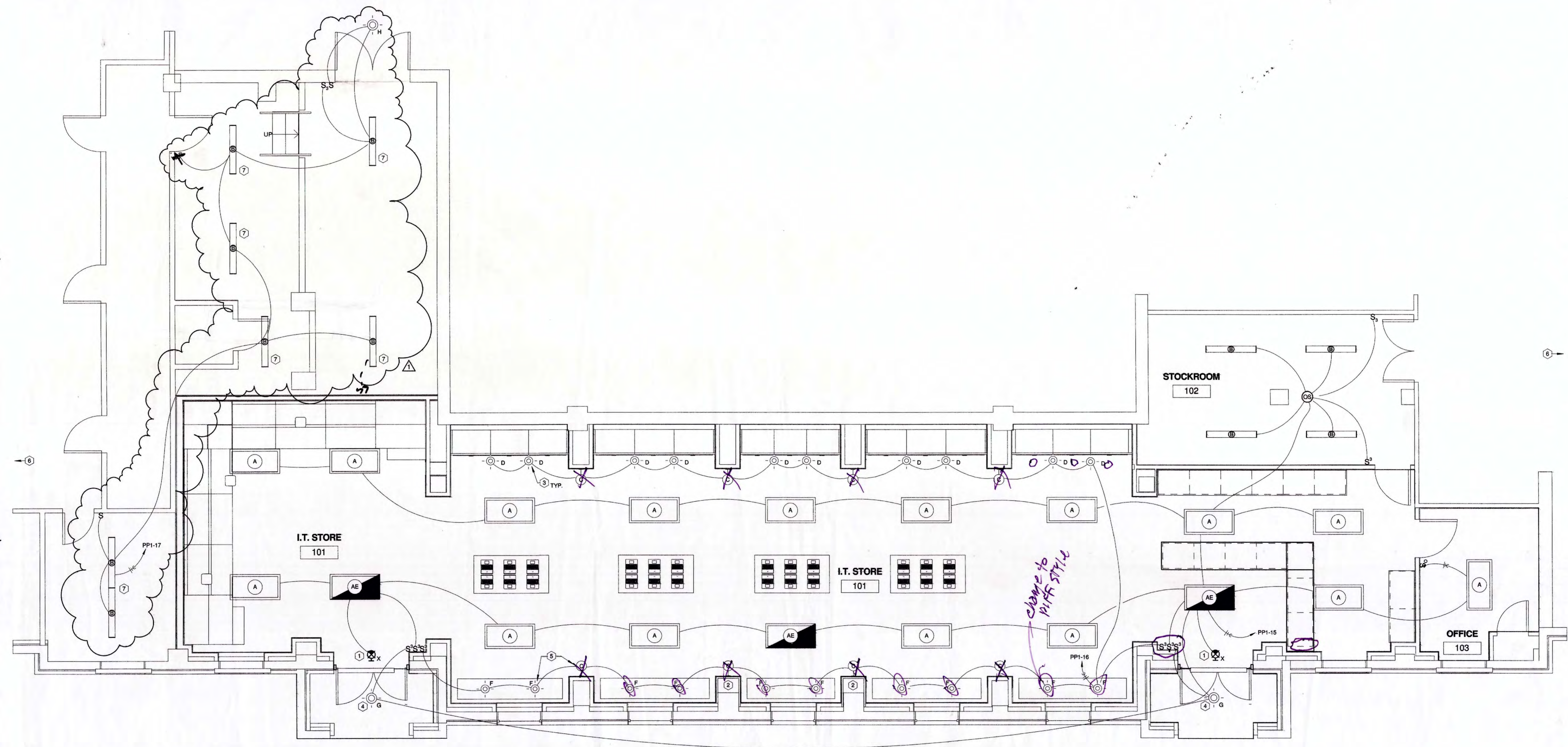
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Sheet Name:  
 SECOND FLOOR DEMOLITION PLAN - ELECTRICAL  
 Project No: 1210 Date: 04/27/12  
 Sheet No: **E102**



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**GENERAL ELECTRICAL NOTES**

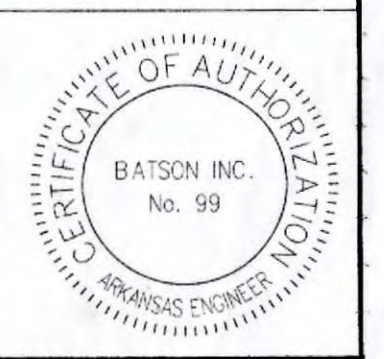
1. CONCEAL ALL CONDUIT. SOME SECTIONS OF CONDUIT WILL BE VISIBLE WHERE THERE ARE GAPS BETWEEN THE NEW CEILING GRID AND EXISTING CONCRETE BEAMS. ALL CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISH WHERE SECTIONS ARE VISIBLE.

**KEYED ELECTRICAL NOTES**

- ① CONNECT EXIT LIGHT TO CIRCUIT WITH AN UNSWITCHED HOT.
- ② CONTRACTOR MAY USE SHALLOW BACK BOXES AT THESE LOCATIONS ONLY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ③ MOUNT THE EDGE OF THE CAN LIGHT OVERLAP TRIM 3" AWAY FROM FACE OF THE STORAGE CABINET. TYPICAL FOR ALL TYPE "D" LIGHTING FIXTURES.
- ④ SUSPEND LIGHTING FIXTURE AT 9'-0" ABOVE EXTERIOR CONCRETE FLOOR TO BOTTOM OF FIXTURE.
- ⑤ FIELD VERIFY MOUNTING HEIGHT LOCATION WITH ARCHITECT. TYPICAL ALL TYPE "C" & "F" LIGHTING FIXTURES.
- ⑥ CONNECT EXTERIOR STAIRWELL FIXTURE ONTO CORRIDOR LIGHTING CIRCUIT. VERIFY EXISTING CIRCUIT LOADING PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER IF CIRCUIT CANNOT CARRY THE ADDITIONAL LOAD.
- ⑦ SUSPEND FIXTURES AT SAME HEIGHT AS EXISTING DEMOED FIXTURES.

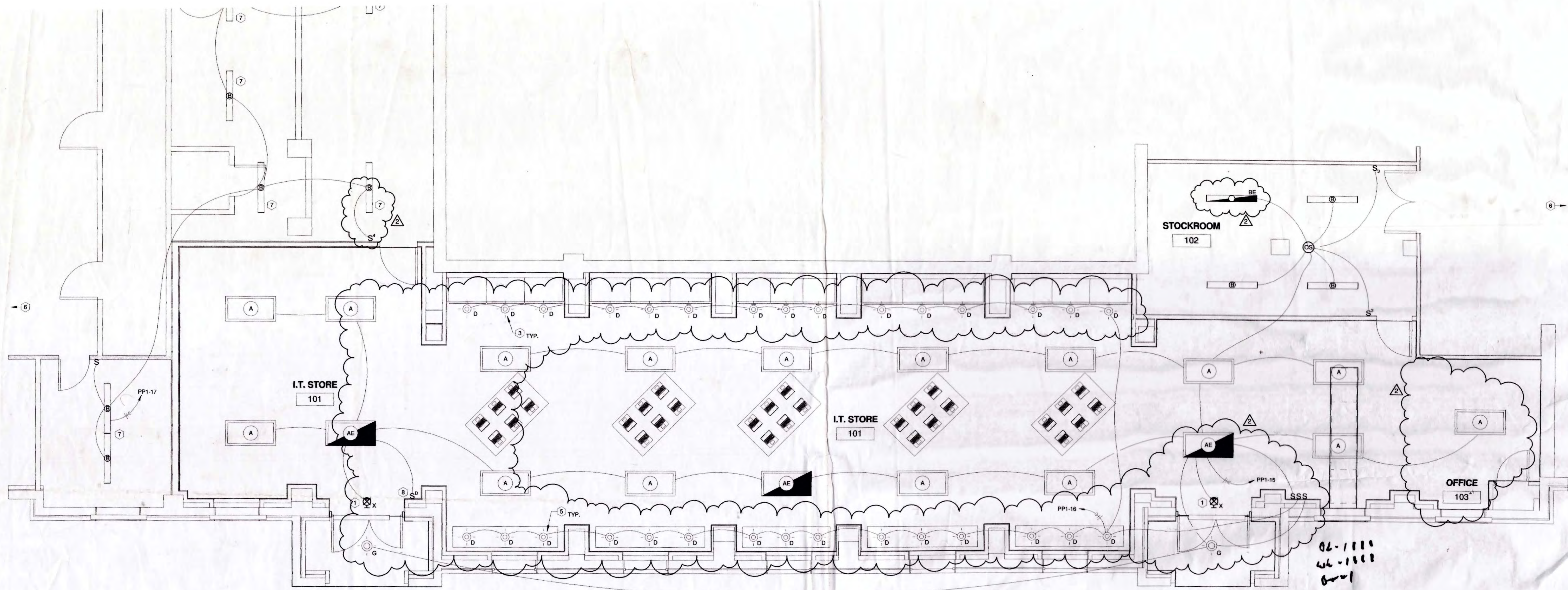
**1 FIRST FLOOR RENOVATION PLAN - LIGHTING**  
 E201 1/4" = 1'-0"

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Sheet Name:  
 FIRST FLOOR RENOVATION  
 PLAN - LIGHTING  
 Project No: 1210 Date: 04/27/12  
 Sheet No: **E201**



**GENERAL ELECTRICAL NOTES**

1. CONCEAL ALL CONDUIT. SOME SECTIONS OF CONDUIT WILL BE VISIBLE WHERE THERE ARE GAPS BETWEEN THE NEW CEILING GRID AND EXISTING CONCRETE BEAMS. ALL CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISH WHERE SECTIONS ARE VISIBLE.

**KEYED ELECTRICAL NOTES**

- 1. CONNECT EXIT LIGHT TO CIRCUIT WITH AN UNSWITCHED HOT.
- 2. NOT USED.
- 3. MOUNT THE EDGE OF THE CAN LIGHT OVERLAP TRIM AS FAR AWAY FROM FACE OF THE STORAGE CABINET IN FURRDOWN AS POSSIBLE. TYPICAL FOR ALL TYPE 'D' LIGHTING FIXTURES MOUNTED ABOVE SLAT WALLS.
- 4. NOT USED.
- 5. CENTER TYPE 'D' LIGHTING FIXTURES IN FURRDOWN. TYPICAL FOR ALL TYPE 'D' LIGHTING FIXTURES MOUNTED ALONG SOUTH WALL.

**1 FIRST FLOOR RENOVATION PLAN - LIGHTING**  
 E201 1/4" = 1'-0"

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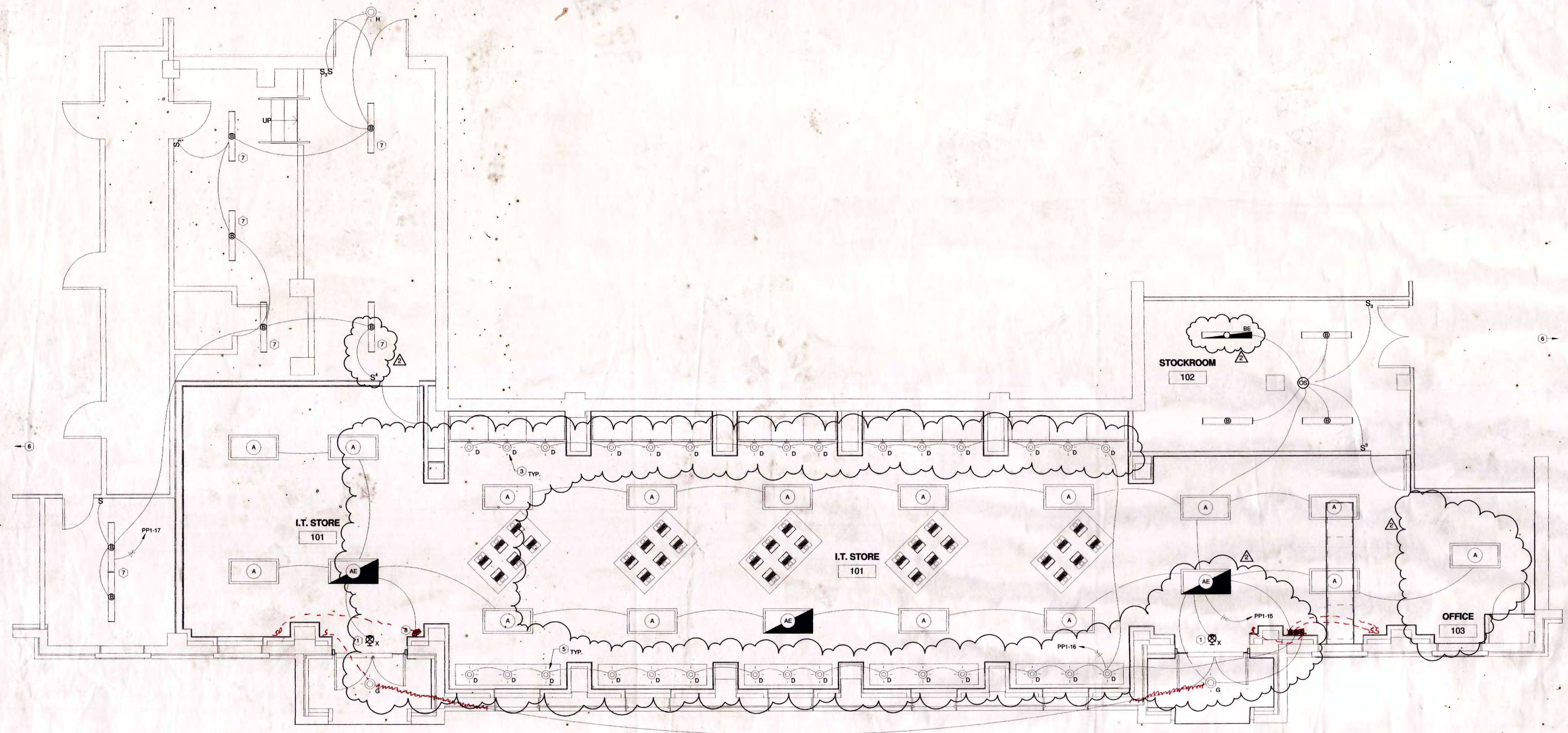
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**GENERAL ELECTRICAL NOTES**

1. CONCEAL ALL CONDUIT. SOME SECTIONS OF CONDUIT WILL BE VISIBLE WHERE THERE ARE GAPS BETWEEN THE NEW CEILING GRID AND EXISTING CONCRETE BEAMS. ALL CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISH WHERE SECTIONS ARE VISIBLE.

**KEYED ELECTRICAL NOTES**

1. CONNECT EXIT LIGHT TO CIRCUIT WITH AN UNSWITCHED HOT.
2. NOT USED.
3. MOUNT THE EDGE OF THE CAN LIGHT OVERLAP TRIM AS FAR AWAY FROM FACE OF THE STORAGE CABINET IN FURROWDOWN AS POSSIBLE. TYPICAL FOR ALL TYPE 'D' LIGHTING FIXTURES MOUNTED ABOVE SLAT WALLS.
4. NOT USED.
5. CENTER TYPE 'D' LIGHTING FIXTURES IN FURROWDOWN. TYPICAL FOR ALL TYPE 'D' LIGHTING FIXTURES MOUNTED ALONG SOUTH WALL.
6. CONNECT EXISTING STAIRWELL FIXTURE ON TO CORRIDOR LIGHTING CIRCUIT. VERIFY EXISTING CIRCUIT LOADING PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER IF CIRCUIT CANNOT CARRY THE ADDITIONAL LOAD.
7. SUSPEND FIXTURES AT SAME HEIGHT AS EXISTING DEMOLISHED FIXTURES.
8. PROVIDE 0-10V DIMMER SWITCH SYNERGY CONTROLS #MSD-BC-120.

**1 FIRST FLOOR RENOVATION PLAN - LIGHTING**  
 E201 1/4" = 1'-0"

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**FIRST FLOOR RENOVATION PLAN - LIGHTING**  
 Project No: 1210 Date: 04/27/12  
 Sheet No: **E201**

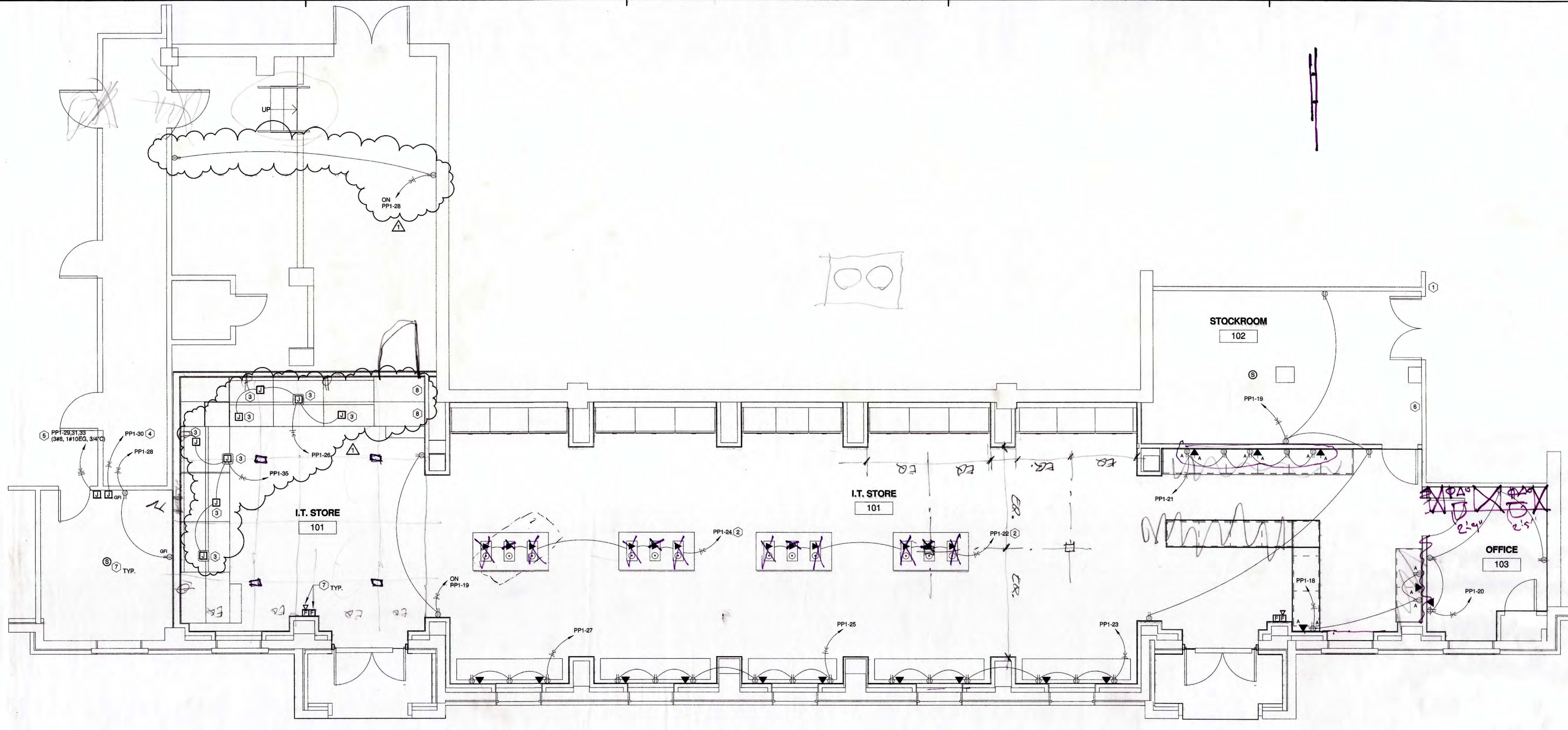
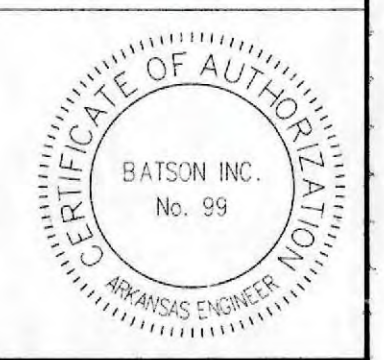
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 FIRST FLOOR RENOVATION  
 PLAN - POWER & SYSTEMS  
 Project No: 1210 Date: 04/27/12  
 Sheet No: **E202**



**GENERAL ELECTRICAL NOTES**

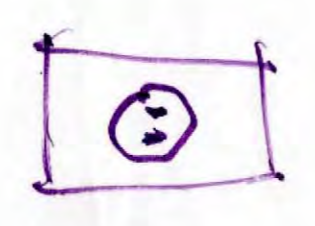
- CONTRACTOR SHALL COORDINATE ALL SHUTDOWN TIMES WITH OWNER MINIMUM 5 DAYS IN ADVANCE.
- ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT. ADD ADDITIONAL FIRE ALARM ZONES, POWER SUPPLY, CARDS, ETC. AS NECESSARY TO INSTALL ALL FIRE ALARM DEVICES SHOWN ON PLANS. EXISTING SYSTEM IS SIMPLEX 400S CONTROL PANEL AND IS LOCATED IN EXISTING MAIN MECHANICAL ROOM LOCATED ON THIS FLOOR APPROXIMATELY 130'-0" NORTH OF THE SOUTH EXTERIOR WALL.
- CONCEAL ALL CONDUIT. SOME SECTIONS OF CONDUIT WILL BE VISIBLE WHERE THERE ARE GAPS BETWEEN THE NEW CEILING GRID AND EXISTING CONCRETE BEAMS. ALL CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISH WHERE SECTIONS ARE VISIBLE.

**KEYED ELECTRICAL NOTES**

- PROVIDE CONDUIT AND BACK BOX TO ABOVE ACCESSIBLE CEILING FOR CONTROLLED ACCESS DEVICE INTO STOCKROOM 102. PROVIDE 120V POWER AS REQUIRED.
- PROVIDE TRENCHING AS REQUIRED TO INSTALL FLOOR BOXES SHOWN ON PLANS.
- JUNCTION BOXES INDICATE POWER FOR ARCHITECTURAL MODULAR BOXES. ROUTE POWER THRU CONCEALED COMPARTMENT IN BENCHES. KEEP CONDUITS AS LOW AS POSSIBLE AND TO ONE SIDE OF BENCH STORAGE COMPARTMENT. CONTRACTOR SHALL PROVIDE (1) DUPLEX OUTLET FOR MODULAR BOX. SEE ARCHITECTURAL DETAIL DRAWINGS AND COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF OUTLET. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. DUPLEX OUTLET FOR MODULAR BOX SHALL BE FASTRAC U-SOCKET DUAL OUTLET/DUAL USB DECOR STYLE OR EQUAL. FINAL LOCATIONS OF BOXES BY ARCHITECT.
- JUNCTION BOX INDICATES POWER FOR EXISTING MECHANICAL PUMP CONTROLS.
- JUNCTION BOX INDICATES NEW FEED FOR EXISTING PUMP.
- EXTEND EXISTING PANEL "J" FEEDER WITH SAME SIZE CONDUCTORS FROM THIS LOCATION TO PROVIDE POWER TO NEW AIR HANDLING UNIT ON SECOND FLOOR. EXISTING PLANS SHOW 486 CONDUCTORS IN FEED. FIELD VERIFY EXACT CONNECTIONS BACK AT EXISTING SWITCHBOARD. DISCONNECT CONDUCTOR FROM NEUTRAL BAR AND RE-CONNECT TO GROUND BUS FOR EQUIPMENT GROUND CONDUCTOR FOR NEW AIR HANDLING UNIT. RE-COLOR CODE CONDUCTORS AS INDICATED IN SPECIFICATION SECTION 19120.
- CONNECT NEW FIRE ALARM DEVICE ONTO EXISTING FIRE ALARM SYSTEM. TYPICAL ALL DEVICES.
- PROVIDE 3/4" CONDUIT SLEEVE IN THE END OF SEAT RISER TO ROUTE TELEPHONE/DATA CABLES TO MODULAR BOXES. CONDUITS SHALL BE CONCEALED IN NEW GYP WALL AND ROUTED TO ABOVE EXISTING CORRIDOR CEILINGS.

**1 FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS**  
 E202 1/4" = 1'-0"

Refer to (A102)



Revisions:  
 ▲ ADDENDUM #2 - 5/14/12  
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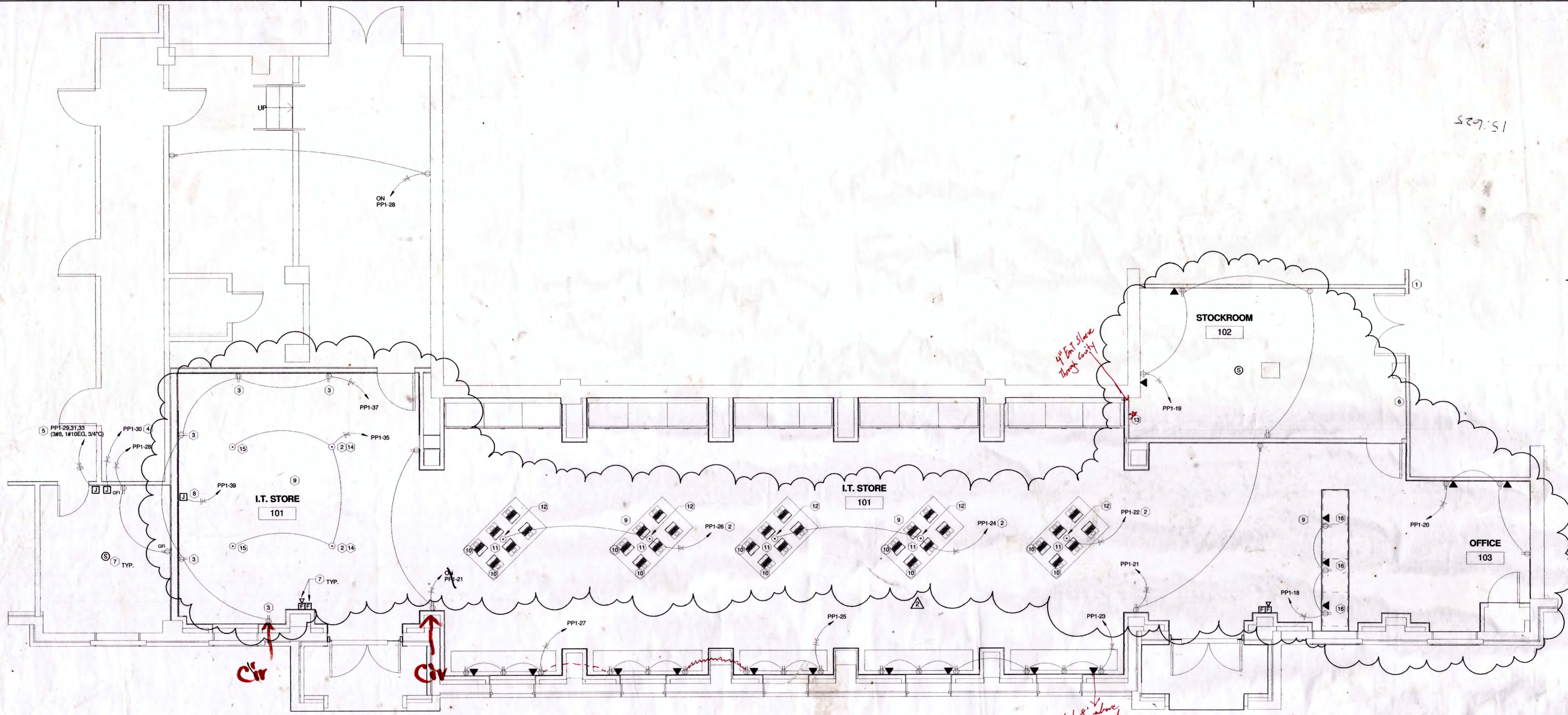
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 Project No: 1210 Date: 04/27/12  
 Sheet No: **E202**



**GENERAL ELECTRICAL NOTES**

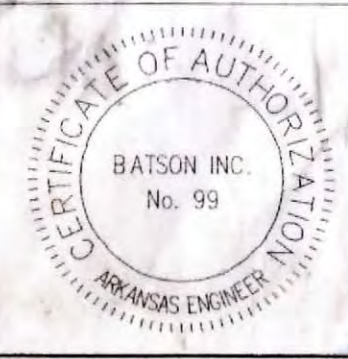
1. CONTRACTOR SHALL COORDINATE ALL SHUTDOWN TIMES WITH OWNER MINIMUM 5 DAYS IN ADVANCE.
2. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT. ADD ADDITIONAL FIRE ALARM ZONES, POWER SUPPLY, CARDS, ETC. AS NECESSARY TO INSTALL ALL FIRE ALARM DEVICES SHOWN ON PLANS. EXISTING SYSTEM IS SIMPLEX 400S CONTROL PANEL AND IS LOCATED IN EXISTING MAIN MECHANICAL ROOM LOCATED ON THIS FLOOR APPROXIMATELY 130'-0" NORTH OF THE SOUTH EXTERIOR WALL.
3. CONCEAL ALL CONDUIT. SOME SECTIONS OF CONDUIT WILL BE VISIBLE WHERE THERE ARE GAPS BETWEEN THE NEW CEILING GRID AND EXISTING CONCRETE BEAMS. ALL CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISH WHERE SECTIONS ARE VISIBLE.

**KEYED ELECTRICAL NOTES**

1. PROVIDE CONDUIT AND BACK BOX TO ABOVE ACCESSIBLE CEILING FOR CONTROLLED ACCESS DEVICE INTO STOCKROOM 102. PROVIDE 120V POWER AS REQUIRED.
2. PROVIDE TRENCHING AS REQUIRED TO INSTALL FLOOR BOXES SHOWN ON PLANS.
3. DUPLEX OUTLET SHALL BE FASTMAC U-SOCKET DUAL OUTLET/DUAL USB DECOR STYLE OR EQUAL.
4. JUNCTION BOX INDICATES POWER FOR EXISTING MECHANICAL PUMP CONTROLS.
5. JUNCTION BOX INDICATES NEW FEED FOR EXISTING PUMP.
6. EXTEND EXISTING PANEL 3" FEEDER WITH SAME SIZE CONDUCTORS FROM THIS LOCATION TO PROVIDE POWER TO NEW AIR HANDLING UNIT ON SECOND FLOOR. EXISTING PLANS SHOW 4#6 CONDUCTORS IN FEED. FIELD VERIFY EXACT CONNECTIONS BACK AT EXISTING SWITCHBOARD. DISCONNECT CONDUCTOR FROM NEUTRAL BAR AND RECONNECT TO GROUND BUS FOR EQUIPMENT GROUND CONDUCTOR FOR NEW AIR HANDLING UNIT. RE-COLOR CODE CONDUCTORS AS INDICATED IN SPECIFICATION SECTION 19101.
7. CONNECT NEW FIRE ALARM DEVICE ONTO EXISTING FIRE ALARM SYSTEM.
8. PROVIDE IN-WALL BOX CHIEF MANUFACTURING #PAC321P. INSTALL CONDUIT AND BACKBOX FROM IN-WALL BOX TO SOUTHWEST CORNER OF STOCKROOM 102.
9. INSTALL CONDUIT AND BACKBOX FROM THIS LOCATION AND STUB TO SOUTHWEST CORNER OF STOCKROOM 102 FOR WIRELESS ACCESS POINT. MOUNT BACKBOX TO STRUCTURE ABOVE CEILING.
10. PROVIDE WIREMOLD #NM24GB412 SURFACE PLUGMOLD. MOUNT PLUGMOLD INSIDE TABLE CAVITY AND ROUTE LENGTH OF TABLE. PROVIDE ALL HARDWARE/FITTINGS NECESSARY TO HARDWIRE PLUGMOLD.
11. INSTALL JUNCTION BOX INSIDE TABLE CAVITY AND HARDWIRE TO BOTH PLUGMOLD ASSEMBLIES. FROM JUNCTION BOX, PROVIDE CABLE SCIENCE #PCE123 COILED POWER CABLE OR EQUAL. CABLE SHALL BE 5'-0" EXTENDED LENGTH AND BLACK IN COLOR. HARDWIRE CABLE TO JUNCTION BOX IN TABLE AND FIT THE END OF THE CABLE WITH 20A RATED PLUG TO BE INSTALLED IN FLOOR OUTLET.
12. PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH SINGLE OUTLET AND #29CK-3/4 BRASS COVER.

**1 FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS**  
 E202 1/4" = 1'-0"

13. STUB ALL TELEDATA CONDUIT TO THIS GENERAL LOCATION. CORE DRILL ACCESS OPENING FOR ASU IT TO ROUTE TELE/DATA CABLES TO EQUIPMENT. VERIFY EXACT LOCATION OF STUBS AND CORE DRILL.
14. PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH DUPLEX OUTLET AND #28SPCT BRASS COVER.
15. PROVIDE AND INSTALL WIREMOLD OMNIBOX 880W SERIES FLOOR BOX WITH DUPLEX OUTLET AND #28SPCT BRASS COVER.
16. CONCEAL OUTLETS AND ALL CONDUIT IN CASE WORK.



Revisions:  
 ▲ ADDENDUM #2 - 5/14/12  
 ▲ ADDENDUM #3 - 6/27/12  
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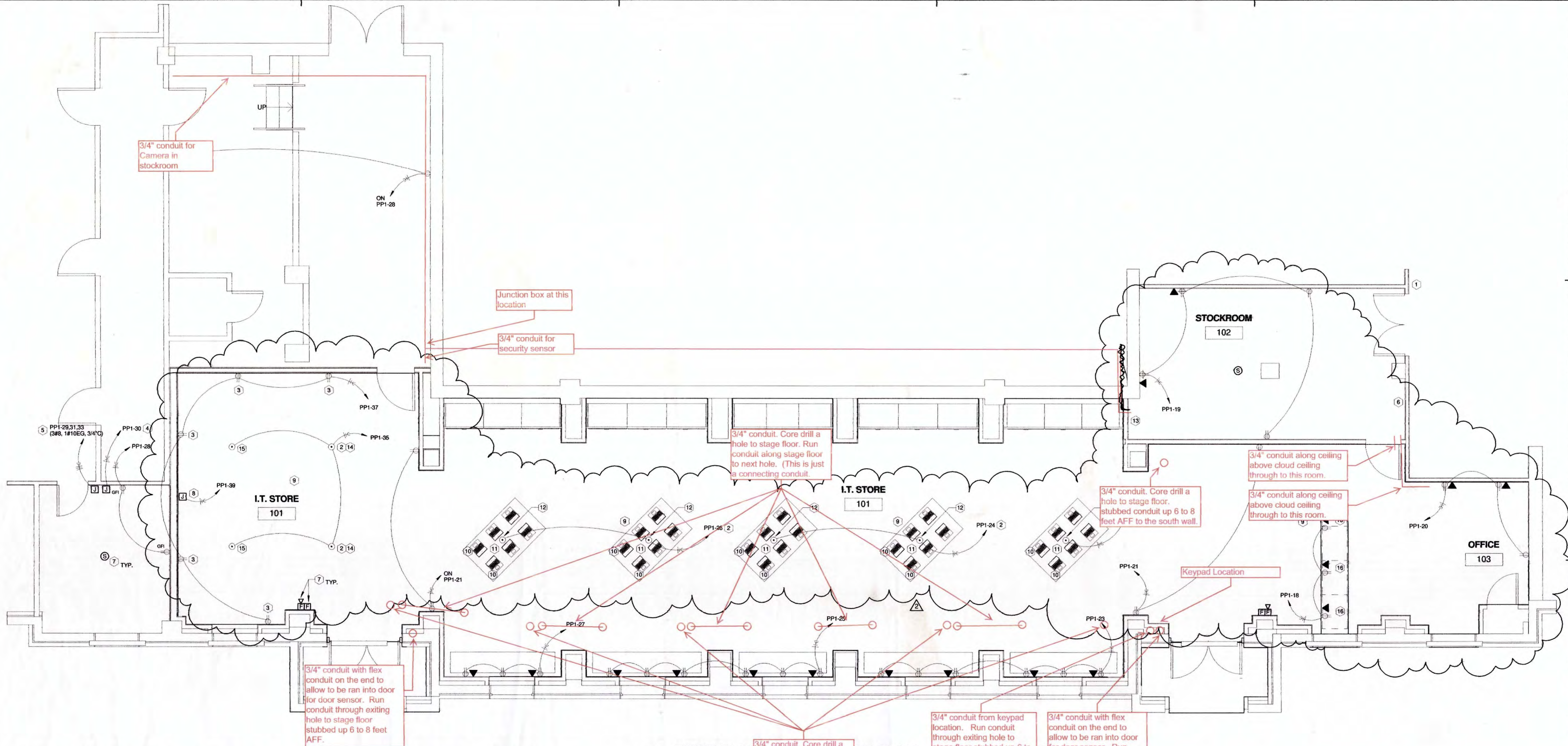
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**FIRST FLOOR RENOVATION  
 PLAN - POWER & SYSTEMS**  
 Project No: 1210 Date: 04/27/12  
 Sheet No: **E202**



**GENERAL ELECTRICAL NOTES**

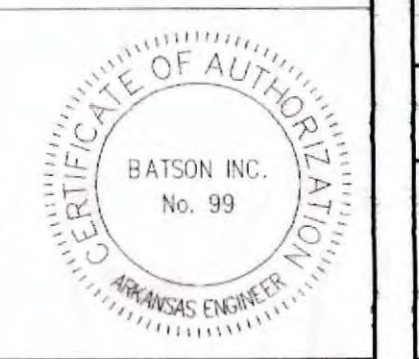
- CONTRACTOR SHALL COORDINATE ALL SHUTDOWN TIMES WITH OWNER MINIMUM 5 DAYS IN ADVANCE.
- ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT. ADD ADDITIONAL FIRE ALARM ZONES, POWER SUPPLY CARDS, ETC. AS NECESSARY TO INSTALL ALL FIRE ALARM DEVICES SHOWN ON PLANS. EXISTING SYSTEM IS SIMPLEX 400S CONTROL PANEL AND IS LOCATED IN EXISTING MAIN MECHANICAL ROOM LOCATED ON THIS FLOOR APPROXIMATELY 130'-0" NORTH OF THE SOUTH EXTERIOR WALL.
- CONCEAL ALL CONDUIT. SOME SECTIONS OF CONDUIT WILL BE VISIBLE WHERE THERE ARE GAPS BETWEEN THE NEW CEILING GRID AND EXISTING CONCRETE BEAMS. ALL CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISH WHERE SECTIONS ARE VISIBLE.

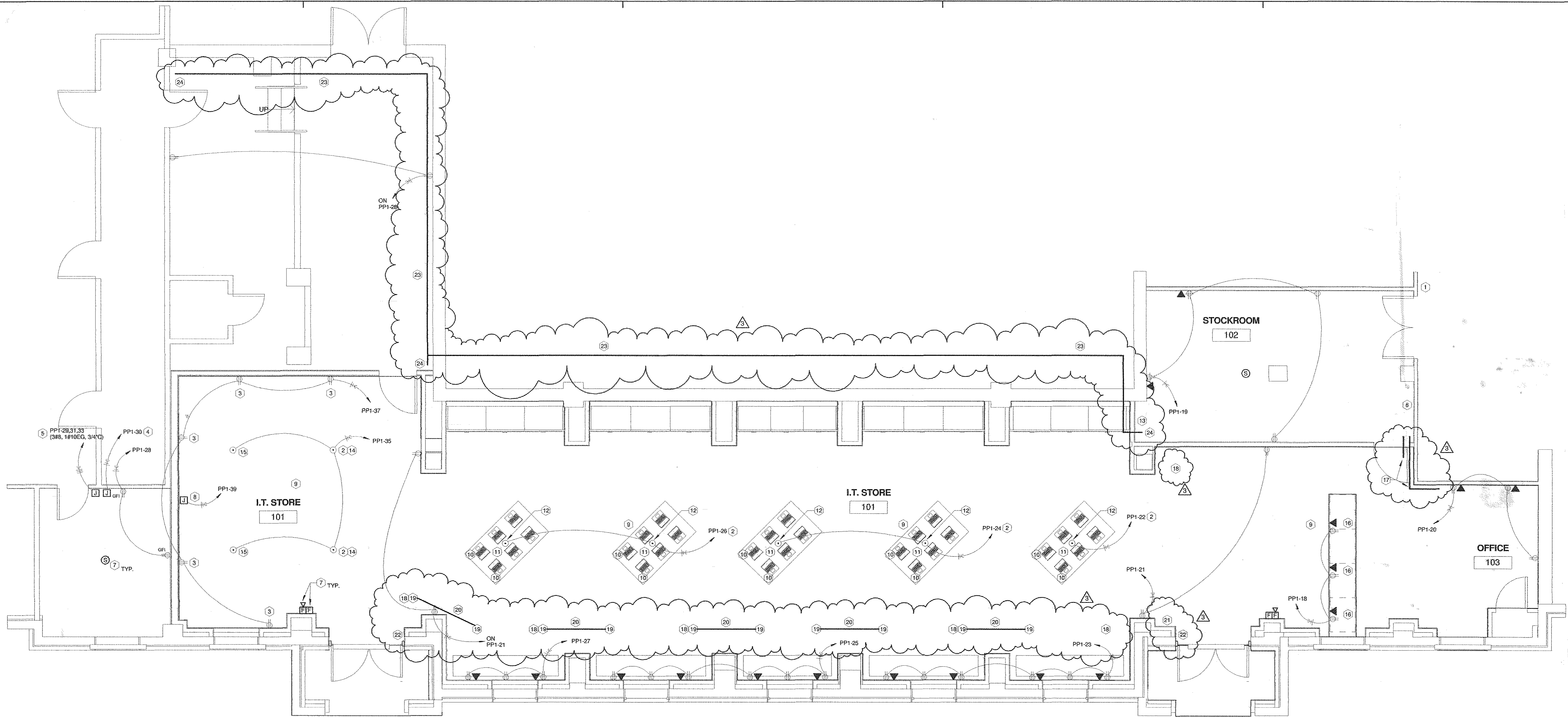
**KEYED ELECTRICAL NOTES**

- PROVIDE CONDUIT AND BACK BOX TO ABOVE ACCESSIBLE CEILING FOR CONTROLLED ACCESS DEVICE INTO STOCKROOM 102. PROVIDE 120V POWER AS REQUIRED.
- PROVIDE TRENCHING AS REQUIRED TO INSTALL FLOOR BOXES SHOWN ON PLANS.
- DUPLEX OUTLET SHALL BE FASTMAC U-SOCKET DUAL OUTLET/DUAL USB DECOR STYLE OR EQUAL.
- JUNCTION BOX INDICATES POWER FOR EXISTING MECHANICAL PUMP CONTROLS.
- JUNCTION BOX INDICATES NEW FEED FOR EXISTING PUMP.
- EXTEND EXISTING PANEL "J" FEEDER WITH SAME SIZE CONDUCTORS FROM THIS LOCATION TO PROVIDE POWER TO NEW AIR HANDLING UNIT ON SECOND FLOOR. EXISTING PLANS SHOW 4#E CONDUCTORS IN FEED. FIELD VERIFY EXACT CONNECTIONS BACK AT EXISTING SWITCHBOARD. DISCONNECT CONDUCTOR FROM NEUTRAL BAR AND RE-CONNECT TO GROUND BUS FOR EQUIPMENT GROUND CONDUCTOR FOR NEW AIR HANDLING UNIT. RE-COLOR CODE CONDUCTORS AS INDICATED IN SPECIFICATION SECTION 16120.
- CONNECT NEW FIRE ALARM DEVICE ONTO EXISTING FIRE ALARM SYSTEM. RE-COLOR ALL DEVICES.
- PROVIDE IN-WALL BOX CHIEF MANUFACTURING #PAC521P. INSTALL CONDUIT AND BACKBOX FROM IN-WALL BOX TO SOUTHWEST CORNER OF STOCKROOM 102.
- INSTALL CONDUIT AND BACKBOX FROM THIS LOCATION AND STUB TO SOUTHWEST CORNER OF STOCKROOM 102 FOR WIRELESS ACCESS POINT. MOUNT BACKBOX TO STRUCTURE ABOVE CEILING.
- PROVIDE WIREMOLD #N42QB412 SURFACE PLUGMOLD. MOUNT PLUGMOLD INSIDE TABLE CAVITY AND ROUTE LENGTH OF TABLE. PROVIDE ALL HARDWARE/FITTINGS NECESSARY TO HARDWIRE PLUGMOLD.
- INSTALL JUNCTION BOX INSIDE TABLE CAVITY AND HARDWIRE TO BOTH PLUGMOLD ASSEMBLIES. FROM JUNCTION BOX, PROVIDE CABLE SCIENCE #PCE123 COILED POWER CABLE OR EQUAL. CABLE SHALL BE 5'-0" EXTENDED LENGTH AND BLACK IN COLOR. HARDWIRE CABLE TO JUNCTION BOX IN TABLE AND FIT THE END OF THE CABLE WITH 20A RATED PLUG TO BE INSTALLED IN FLOOR OUTLET.
- PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH SINGLE OUTLET AND 829CK-3/4 BRASS COVER.

**1 FIRST FLOOR RENOVATION PLAN - E202 1/4" = 1'-0"**

- STUB ALL TELEDATA CONDUIT TO THIS GENERAL LOCATION. CORE DRILL ACCESS OPENING FOR ASU IT TO ROUTE TELEDATA CABLES TO EQUIPMENT. VERIFY EXACT LOCATION OF STUBS AND CORE DRILL.
- PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH DUPLEX OUTLET AND #828SPTC BRASS COVER.
- PROVIDE AND INSTALL WIREMOLD OMNIBOX 880W SERIES FLOOR BOX WITH DUPLEX OUTLET AND #828SPTC BRASS COVER.
- CONCEAL OUTLETS AND ALL CONDUIT IN CASE WORK.





**GENERAL ELECTRICAL NOTES**

1. CONTRACTOR SHALL COORDINATE ALL SHUTDOWN TIMES WITH OWNER MINIMUM 5 DAYS IN ADVANCE.
2. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT. ADD ADDITIONAL FIRE ALARM ZONES, POWER SUPPLY, CARDS, ETC. AS NECESSARY TO INSTALL ALL FIRE ALARM DEVICES SHOWN ON PLANS. EXISTING SYSTEM IS SIMPLEX 4005 CONTROL PANEL AND IS LOCATED IN EXISTING MAIN MECHANICAL ROOM LOCATED ON THIS FLOOR APPROXIMATELY 130'-0" NORTH OF THE SOUTH EXTERIOR WALL.
3. CONCEAL ALL CONDUIT. SOME SECTIONS OF CONDUIT WILL BE VISIBLE WHERE THERE ARE GAPS BETWEEN THE NEW CEILING GRID AND EXISTING CONCRETE BEAMS. ALL CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISH WHERE SECTIONS ARE VISIBLE.
4. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULLSTRINGS AND INSULATED THROAT CONNECTORS ON THE ENDS OF THE CONDUIT.

**KEYED ELECTRICAL NOTES**

1. PROVIDE CONDUIT AND BACK BOX TO ABOVE ACCESSIBLE CEILING FOR CONTROLLED ACCESS DEVICE INTO STOCKROOM 102. PROVIDE 120V POWER AS REQUIRED.
2. PROVIDE TRENCHING AS REQUIRED TO INSTALL FLOOR BOXES SHOWN ON PLANS.
3. DUPLEX OUTLET SHALL BE FASTMACK U-SOCKET DUAL OUTLET/DUAL USB DECOR STYLE OR EQUAL.
4. JUNCTION BOX INDICATES POWER FOR EXISTING MECHANICAL PUMP CONTROLS.
5. JUNCTION BOX INDICATES NEW FEED FOR EXISTING PUMP.
6. EXTEND EXISTING PANEL, 3" FEEDER WITH SAME SIZE CONDUCTORS FROM THIS LOCATION TO PROVIDE POWER TO NEW AIR HANDLING UNIT ON SECOND FLOOR. EXISTING PLANS SHOW 4#6 CONDUCTORS IN FEED. FIELD VERIFY EXACT CONNECTIONS BACK AT EXISTING SWITCHBOARD. DISCONNECT CONDUCTOR FROM NEUTRAL BAR AND RE-CONNECT TO GROUND BUS FOR EQUIPMENT GROUND CONDUCTOR FOR NEW AIR HANDLING UNIT. RE-COLOR CODE CONDUCTORS AS INDICATED IN SPECIFICATION SECTION 16100.
7. CONNECT NEW FIRE ALARM DEVICE ONTO EXISTING FIRE ALARM SYSTEM. TYPICAL ALL DEVICES.
8. PROVIDE IN-WALL BOX CHIEF MANUFACTURING #PAC21P. INSTALL CONDUIT AND BACKBOX FROM IN-WALL BOX TO SOUTHWEST CORNER OF STOCKROOM 102.
9. INSTALL CONDUIT AND BACKBOX FROM THIS LOCATION AND STUB TO SOUTHWEST CORNER OF STOCKROOM 102 FOR WIRELESS ACCESS POINT. MOUNT BACKBOX TO STRUCTURE ABOVE CEILING.
10. PROVIDE WIREMOLD #NM24GB412 SURFACE PLUGMOLD. MOUNT PLUGMOLD INSIDE TABLE CAVITY AND ROUTE LENGTH OF TABLE. PROVIDE ALL HARDWARE/FITTINGS NECESSARY TO HARDWIRE PLUGMOLD.
11. INSTALL JUNCTION BOX INSIDE TABLE CAVITY AND HARDWIRE TO BOTH PLUGMOLD ASSEMBLIES. FROM JUNCTION BOX, PROVIDE CABLE SCIENCE #PCE123 COILED POWER CABLE OR EQUAL. CABLE SHALL BE 5'-0" EXTENDED LENGTH AND BLACK IN COLOR. HARDWIRE CABLE TO JUNCTION BOX IN TABLE AND FIT THE END OF THE CABLE WITH 20A RATED PLUG TO BE INSTALLED IN FLOOR OUTLET.
12. PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH SINGLE OUTLET AND 829CK-3/4 BRASS COVER.

**1 FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS**  
 E202 1/4" = 1'-0"

13. STUB ALL TELE/DATA CONDUIT TO THIS GENERAL LOCATION. CORE DRILL ACCESS OPENING FOR ASU IT TO ROUTE TELE/DATA CABLES TO EQUIPMENT. VERIFY EXACT LOCATION OF STUBS AND CORE DRILL.
14. PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH DUPLEX OUTLET AND #828SPTC BRASS COVER.
15. PROVIDE AND INSTALL WIREMOLD OMNIBOX 880W SERIES FLOOR BOX WITH DUPLEX OUTLET AND #828SPTC BRASS COVER.
16. CONCEAL OUTLETS AND ALL CONDUIT IN CASE WORK.
17. 3/4" SLEEVES ABOVE CEILING FOR SECURITY DEVICES.
18. CORE DRILL TO STAGE FLOOR THIS APPROXIMATE LOCATION. INSTALL 3/4" ON STAGE FLOOR OVER TO SOUTH WALL AND UP TO 9'-0" ABOVE STAGE FLOOR. CONDUIT SHALL EXTEND 2" BELOW CONCRETE DECK ABOVE FIRST FLOOR CEILING. INSTALL CONDUIT WITH INSULATED THROAT CONNECTORS.
19. CORE DRILL TO STAGE FLOOR THIS APPROXIMATE LOCATION.
20. INSTALL 3/4" ALONG STAGE FLOOR BETWEEN PENETRATIONS AND INTO SPACE ABOVE LAY-IN CEILING. CONDUIT SHALL EXTEND 2" BELOW CONCRETE DECK ABOVE FIRST FLOOR CEILING. INSTALL CONDUIT WITH INSULATED THROAT CONNECTORS.
21. KEYPAD. INSTALL 3/4" AND BACKBOX FROM KEYPAD THRU EXISTING STAGE FLOOR PENETRATION. CONDUIT SHALL EXTEND TO 8'-0" ABOVE STAGE FLOOR.
22. INSTALL 3/4" FROM DOOR SENSOR THRU EXISTING STAGE FLOOR PENETRATION. CONDUIT SHALL EXTEND TO 8'-0" ABOVE STAGE FLOOR. CONDUIT INTO DOOR MULLION/HARDWARE MAY BE INSTALLED AS FLEX.
23. INSTALL 3/4" FOR SECURITY SENSOR/CAMERA. VERIFY EXACT LOCATION.
24. INSTALL JUNCTION BOX AT THE END OF CONDUIT RUN.

Revisions:  
 ADDENDUM #2  
 ADDENDUM #3  
 ADDENDUM #4  
 CHM

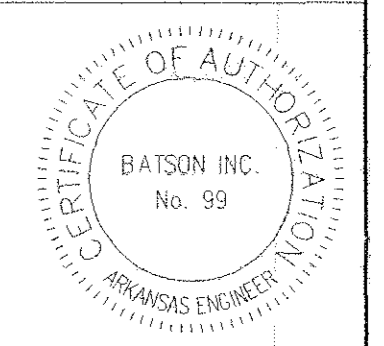
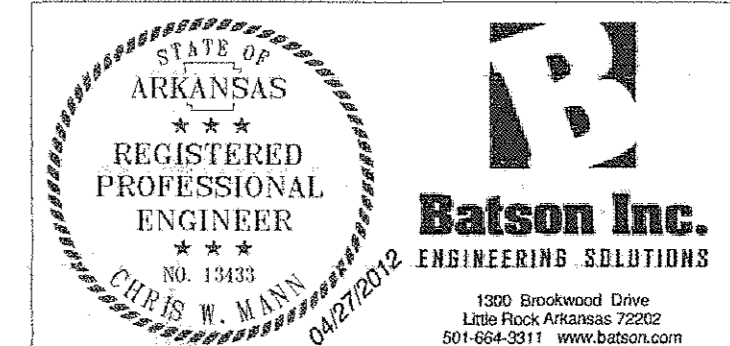
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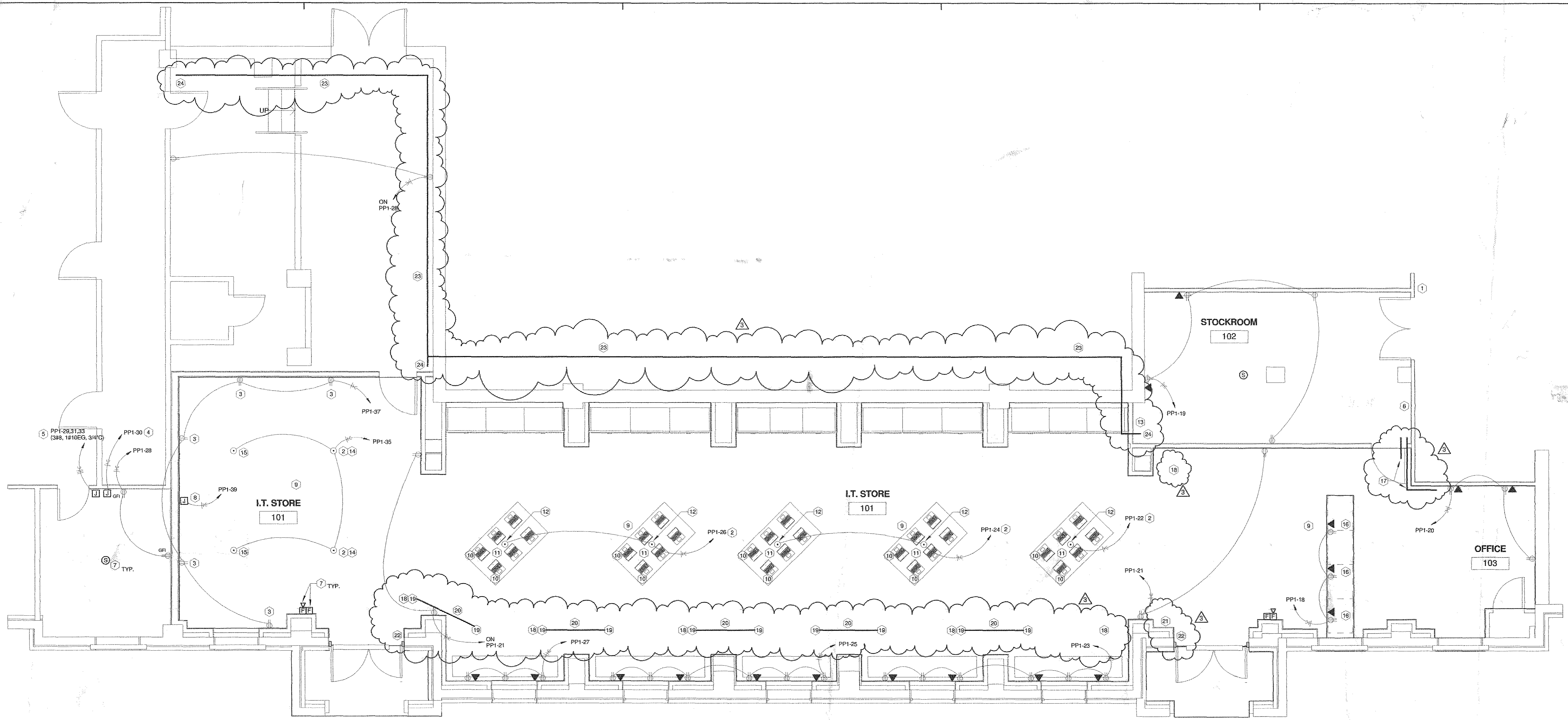
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 PLAN - POWER & SYSTEMS  
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 ▲ ADDENDUM #3 - 6/27/12  
 ▲ ADDENDUM #4 - 7/12/12  
 CNM

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**GENERAL ELECTRICAL NOTES**

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- 1 PROVIDE CONDUIT AND BACK BOX TO ABOVE ACCESSIBLE CEILING FOR CONTROLLED ACCESS DEVICE INTO STOCKROOM 102. PROVIDE 120V POWER AS REQUIRED.
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- 7 CONNECT NEW FIRE ALARM DEVICE ONTO EXISTING FIRE ALARM SYSTEM. TYPICAL ALL DEVICES.
- 8 PROVIDE IN-WALL BOX CHIEF MANUFACTURING #PAC521P. INSTALL CONDUIT AND BACKBOX FROM IN-WALL BOX TO SOUTHWEST CORNER OF STOCKROOM 102.
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- 11 INSTALL JUNCTION BOX INSIDE TABLE CAVITY AND HAROWIRE TO BOTH PLUGMOLD ASSEMBLIES. FROM JUNCTION BOX, PROVIDE CABLE SCIENCE #PCE129 COILED POWER CABLE OR EQUAL. CABLE SHALL BE 5'-0" EXTENDED LENGTH AND BLACK IN COLOR. HARDWIRE CABLE TO JUNCTION BOX IN TABLE AND FIT THE END OF THE CABLE WITH 20A RATED PLUG TO BE INSTALLED IN FLOOR OUTLET.
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**1 FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS**  
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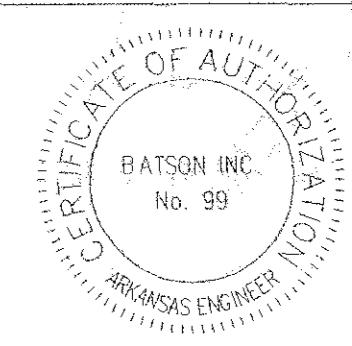
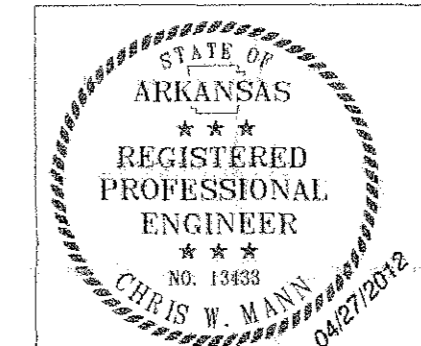
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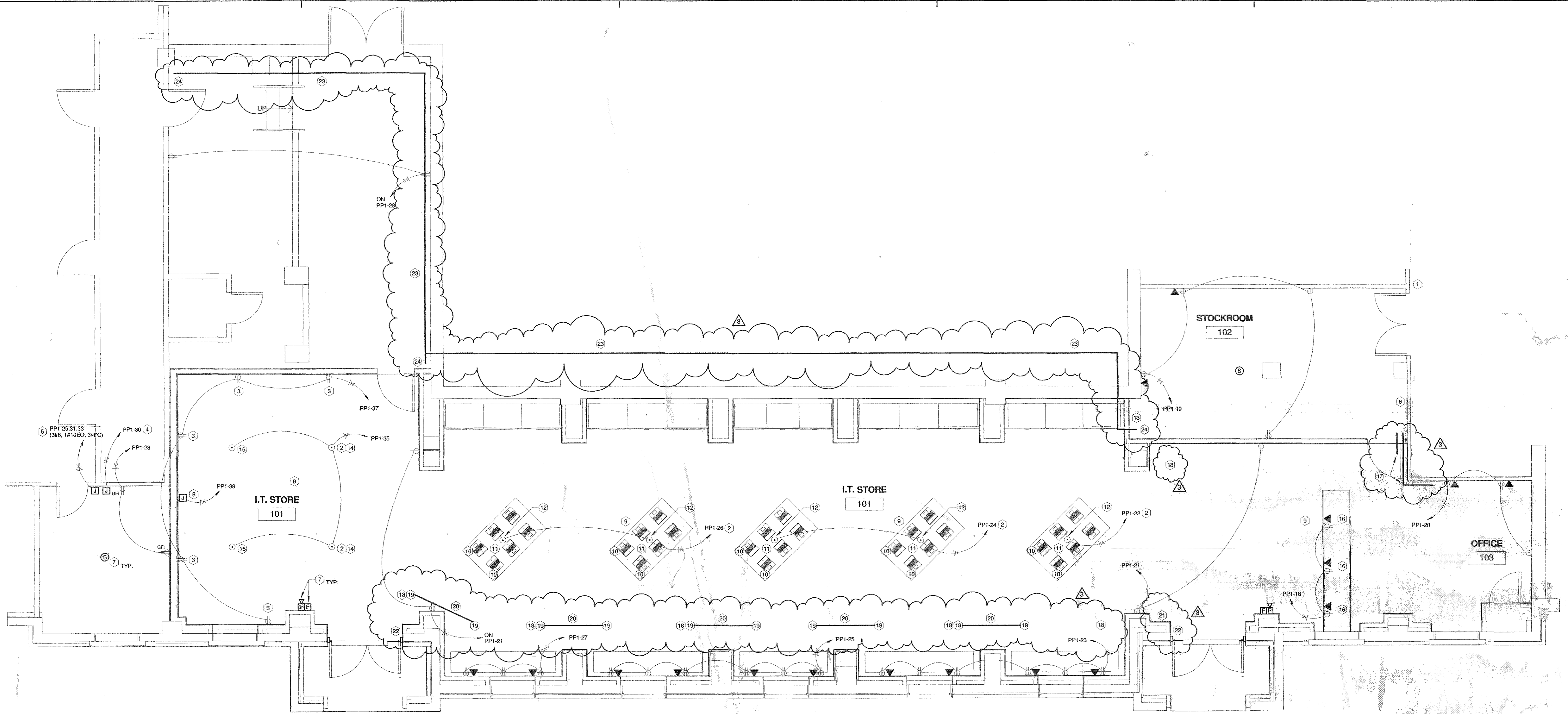
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Sheet Name:  
 FIRST FLOOR RENOVATION  
 PLAN - POWER & SYSTEMS  
 Project No: 1210 Date: 04/27/12  
 Sheet No: E202



- Revisions:
- ADDENDUM #2 - 5/14/12
  - ADDENDUM #3 - 6/27/12
  - ADDENDUM #4 - 7/12/12

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1 **FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS**  
E202 1/4" = 1'-0"

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STATE OF ARKANSAS

REGISTERED PROFESSIONAL ENGINEER

CHRIS W. MANN

04/27/2012

**Batson Inc.**

ENGINEERING SOLUTIONS

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 Little Rock, Arkansas 72202  
 501-694-2311 www.batson.com

CERTIFICATE OF AUTHORIZATION

BATSON INC.

No. 99

ARKANSAS ENGINEER

Corporate Seal

Sheet Name: FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS  
 Project No: 1210 Date: 04/27/12  
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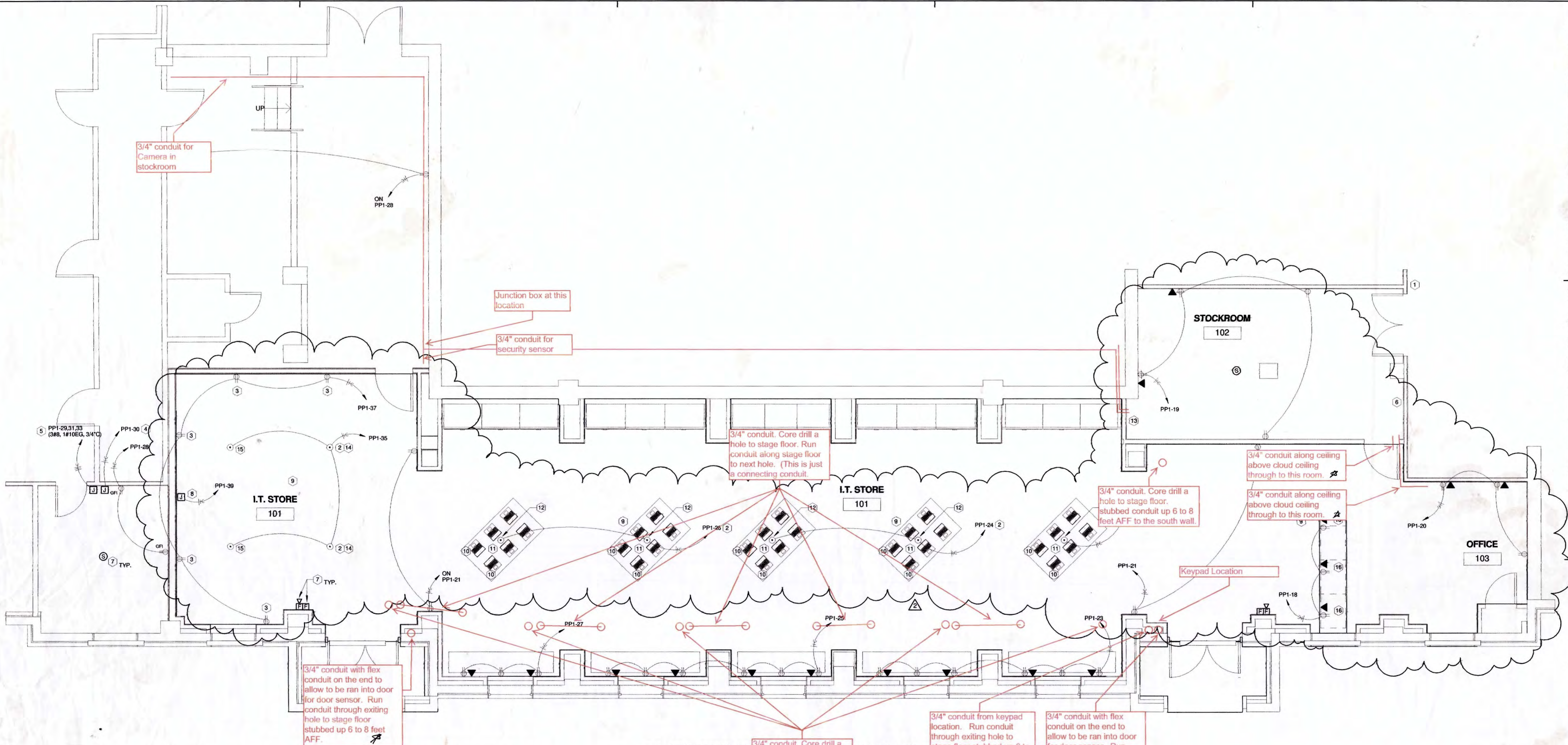
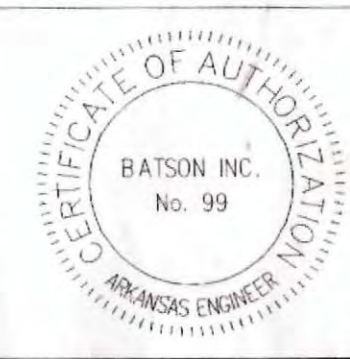
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**1** FIRST FLOOR RENOVATION PLAN -  
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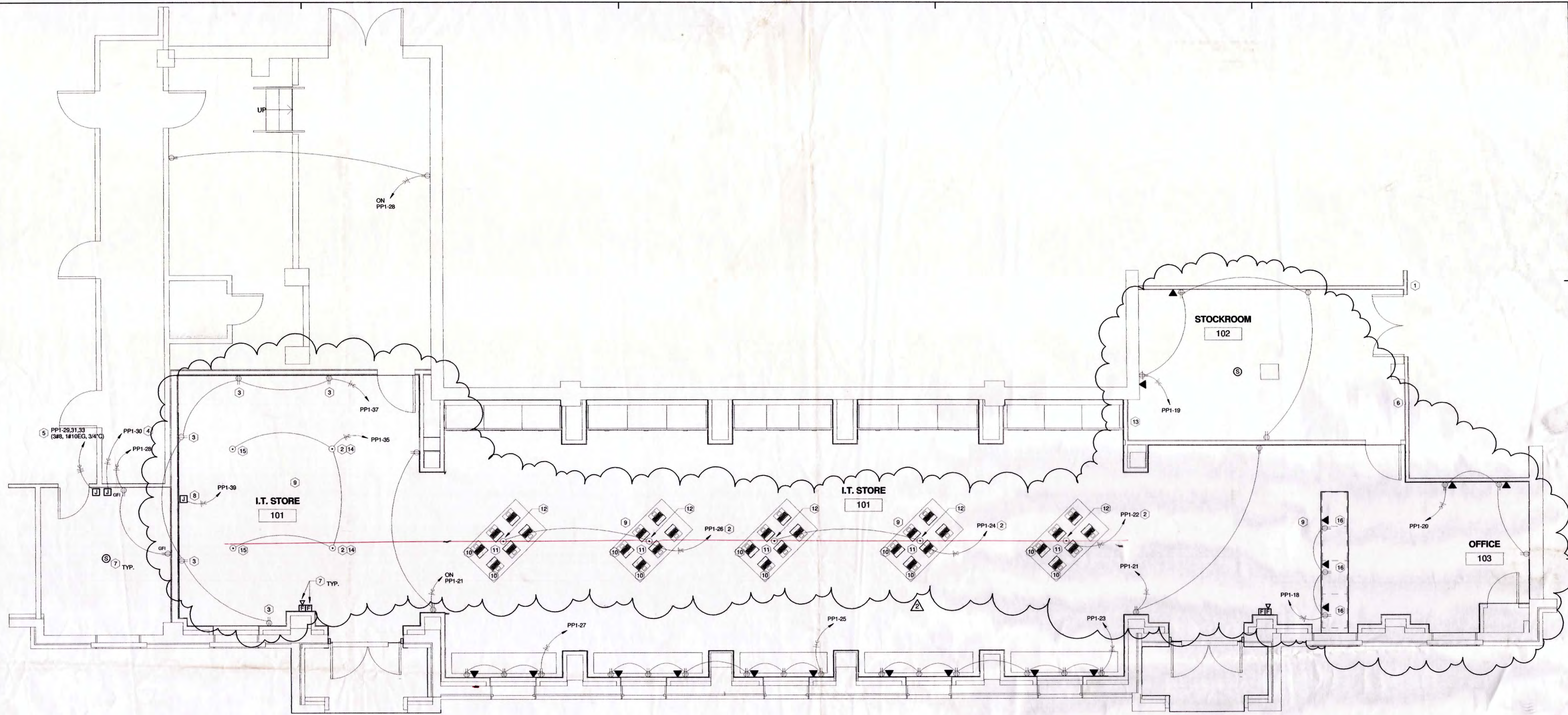
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**GENERAL ELECTRICAL NOTES**

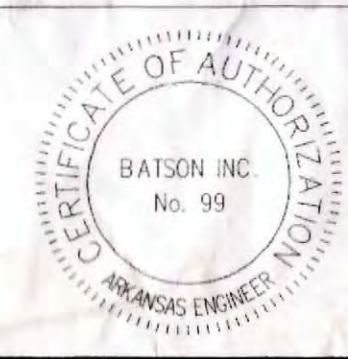
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- 8 PROVIDE IN-WALL BOX CHIEF MANUFACTURING #PAC521P. INSTALL CONDUIT AND BACKBOX FROM IN-WALL BOX TO SOUTHWEST CORNER OF STOCKROOM 102.
- 9 INSTALL CONDUIT AND BACKBOX FROM THIS LOCATION AND STUB TO SOUTHWEST CORNER OF STOCKROOM 102 FOR WIRELESS ACCESS POINT. MOUNT BACKBOX TO STRUCTURE ABOVE CEILING.
- 10 PROVIDE WIREMOLD #NM24GB412 SURFACE PLUGMOLD. MOUNT PLUGMOLD INSIDE TABLE CAVITY AND ROUTE LENGTH OF TABLE. PROVIDE ALL HARDWARE/FITTINGS NECESSARY TO HARDWIRE PLUGMOLD.
- 11 INSTALL JUNCTION BOX INSIDE TABLE CAVITY AND HARDWIRE TO BOTH PLUGMOLD ASSEMBLIES. FROM JUNCTION BOX, PROVIDE CABLE SCIENCE #PCE193 COILED POWER CABLE OR EQUAL. CABLE SHALL BE 5'-0" EXTENDED LENGTH AND BLACK IN COLOR. HARDWIRE CABLE TO JUNCTION BOX IN TABLE AND FIT THE END OF THE CABLE WITH 20A RATED PLUG TO BE INSTALLED IN FLOOR OUTLET.
- 12 PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH SINGLE OUTLET AND #28SPTC BRASS COVER.

**1 FIRST FLOOR RENOVATION PLAN - POWER & SYSTEMS**  
 E202 1/4" = 1'-0"

- 13 STUB ALL TELEDATA CONDUIT TO THIS GENERAL LOCATION. CORE DRILL ACCESS OPENING FOR ASU IT TO ROUTE TELE/DATA CABLES TO EQUIPMENT. VERIFY EXACT LOCATION OF STUBS AND CORE DRILL.
- 14 PROVIDE AND INSTALL WIREMOLD OMNIBOX 880 SERIES FLOOR BOX WITH DUPLEX OUTLET AND #28SPTC BRASS COVER.
- 15 PROVIDE AND INSTALL WIREMOLD OMNIBOX 880W SERIES FLOOR BOX WITH DUPLEX OUTLET AND #28SPTC BRASS COVER.
- 16 CONCEAL OUTLETS AND ALL CONDUIT IN CASE WORK.

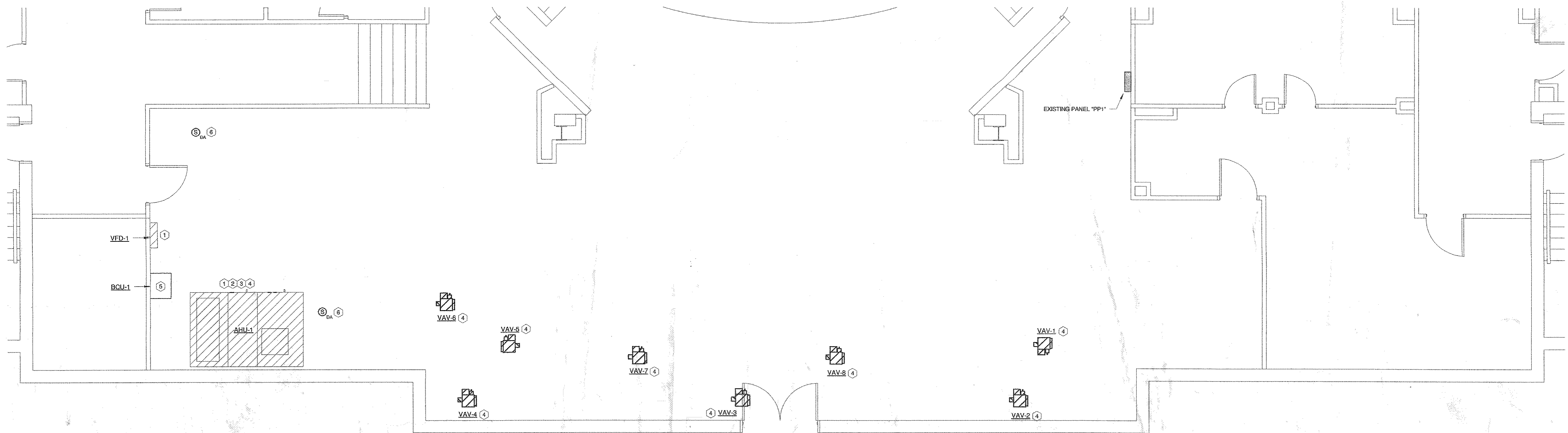


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Corporate Seal

Sheet Name:  
 FIRST FLOOR RENOVATION  
 PLAN - POWER & SYSTEMS  
 Project No: 1210 Date: 04/27/12  
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**GENERAL ELECTRICAL NOTES**

- 1. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT. ADD ADDITIONAL FIRE ALARM ZONES, POWER SUPPLY, CARDS, ETC. AS NECESSARY TO INSTALL ALL FIRE ALARM DEVICES SHOWN ON PLANS.

**KEYED ELECTRICAL NOTES**

- ① ROUTE EXISTING PANEL "1" FEEDER THRU VFD TO NEW AIR HANDLING UNIT. SEE FIRST FLOOR RENOVATION POWER PLAN FOR ADDITIONAL REQUIREMENTS.
- ② PROVIDE 120V CIRCUIT "PP1-32" FOR AIR HANDLING UNIT RECEPTACLE.
- ③ PROVIDE 120V CIRCUIT "PP1-34" FOR AIR HANDLING UNIT MOUNTED LED LIGHT.
- ④ PROVIDE 120V POWER FOR CONTROL TRANSFORMER. VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR. CONNECT ONTO "PP1-32".
- ⑤ PROVIDE 120V CIRCUIT "PP1-36" FOR BUILDING CONTROL UNIT.
- ⑥ DUCT SMOKE DETECTOR WITH AUXILIARY CONTACTS TO SHUTDOWN MECHANICAL UNIT UPON ALARM. CONNECT DUCT SMOKE DETECTOR ONTO EXISTING FIRE ALARM SYSTEM. VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR.

**1 SECOND FLOOR RENOVATION PLAN - ELECTRICAL**  
 E203 1/4" = 1'-0"

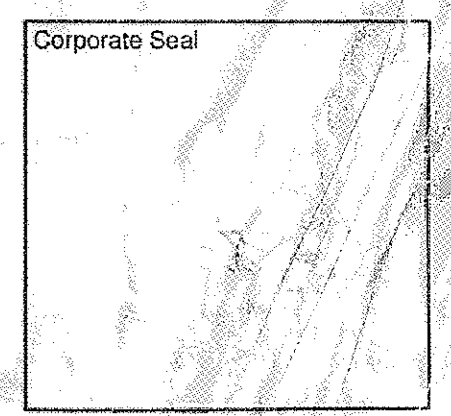
Revisions:

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			Sheet Name:	SECOND FLOOR RENOVATION PLAN - ELECTRICAL
			Project No:	1210
		Date:	04/27/12	
		Sheet No:	<b>E203</b>	