NEW OFFICE BUILDING

MISSOURI DEPARTMENT OF TRANSPORTATION

COUNTY ROAD 523 | POPLAR BLUFF, MO. 63901 | JUNE 22, 2012

PROJECT TEAM

OWNER
X
X
X
X

ARCHITECT:
DILLE & TRAXEL, LLC
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(F) 573-778-0057

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SANDIN ENGINEERING
2989 STATE HIGHWAY 25
JACKSON, MO 63755
(P) 573-204-7900

STRUCTURAL ENGINEER:
KEVIN C. SKIBISKI
HORNER & SHIFRIN ENGINEERINGS
2989 STATE HIGHWAY 25
SPRINGFIELD, MO 65803-9509
(P) 417- 865-7000

SYMBOL LEGEND

- DOOR TAG - DOOR#
- ROOM NAME / 101 — ROOM TAG
- BUILDING SECTION - DETAIL# / SHEET#
- WALL SECTION - DETAIL#-SHEET#
- INTERIOR ELEVATION - DETAIL# / SHEET#
- ENLARGED DETAIL - DETAIL# / SHEET#
- ELEVATION LOCATION — ELEVATION TARGET
- ROOF PITCH (12 RUN : 2 RISE)
- WINDOW TYPE
- PARTITION TYPE
- DOOR TYPE
- GENERAL NOTE
- EXISTING/NEW CONSTRUCTION

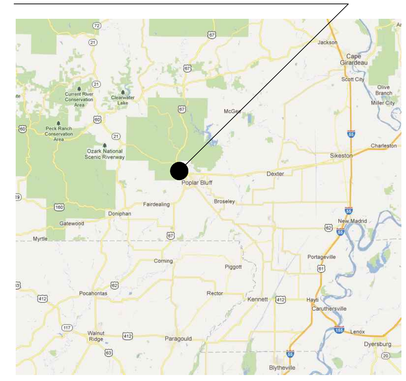
ABBREVIATIONS

A.D.A.	AMERICAN DISABILITIES ASSOCIATION
BLDG.	BUILDING
C.J.	CONTROL JOINT
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
DR.	DOOR
E.W.C.	ELECTRIC WATER COOLER
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM
E.J.	EXPANSION JOINT
EA.	EACH
EXT.	EXTERIOR
FIN.	FINISH
FLR.	FLOOR
G.B.	GRAB BAR
GYP.	GYPSUM
H.M.	HOLLOW METAL
HT.	HEIGHT
INT.	INTERIOR
INSUL.	INSULATION
LVL.	LEVEL
MANF.	MANUFACTURER
M.B.C.	METAL BUILDING CONTRACTOR
MIN.	MINIMUM OR MINUTE
MTL.	METAL
O.C.	ON CENTER
PART.	PARTITION
PR.	PAIR
PRE-FIN.	PRE-FINISHED
REQ'D	REQUIRED
SCH.	SCHEDULE
S.S.	STAINLESS STEEL
STL.	STEEL
SPEC.	SPECIFICATIONS
STRUCT.	STRUCTURAL
TLT.	TOILET
W.	WIDTH
W/	WITH
U.L.	UNDERWRITERS LABORATORIES
WNDW.	WINDOW
V.C.T.	VINYL COMPOSITION TILE

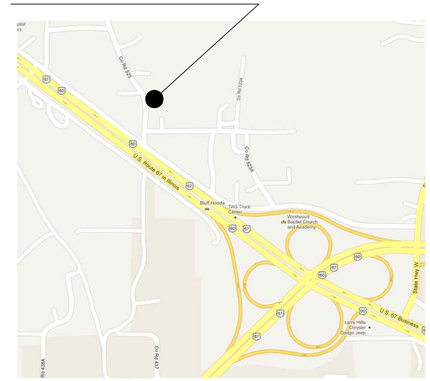
DRAWING INDEX

T1.0	TITLE SHEET
A1.0	SITE AND CODE PLAN
A2.0	PLANS
A3.0	ELEVATIONS
A4.0	ENLARGED PLANS
A5.0	SCHEDULES
S1.0	PLANS AND DETAIL
M1	PLUMBING PLAN
M2	H.V.A.C. PLAN
E1	POWER PLAN
E2	LIGHTING PLAN

SITE LOCATION MAP



BUILDING SITE



NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

REVISIONS
12-27-2012

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MISSOURI LICENSE NO. 2001005483

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CONFIDENTIAL

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DATE
22 JUNE 2012

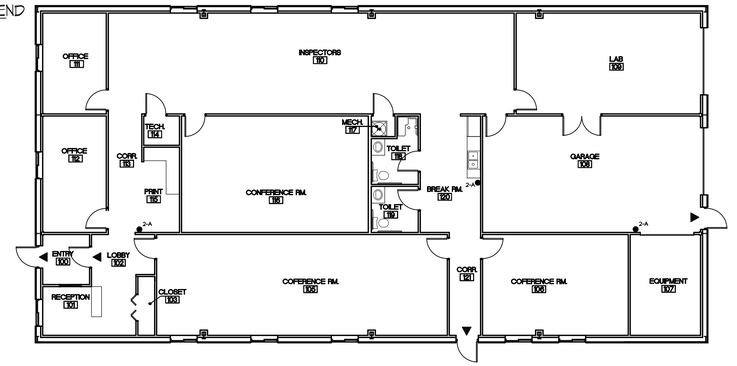
SHEET TITLE
TITLE SHEET

JOB NO.
12-12

SHEET
T1.0

CODE FOOTPRINT LEGEND

- 2-A — LOCATION OF FIRE EXTINGUISHER CABINET (CLASS 2-A)
- ◀ — DESIGNATED EXIT



2 CODE PLAN

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

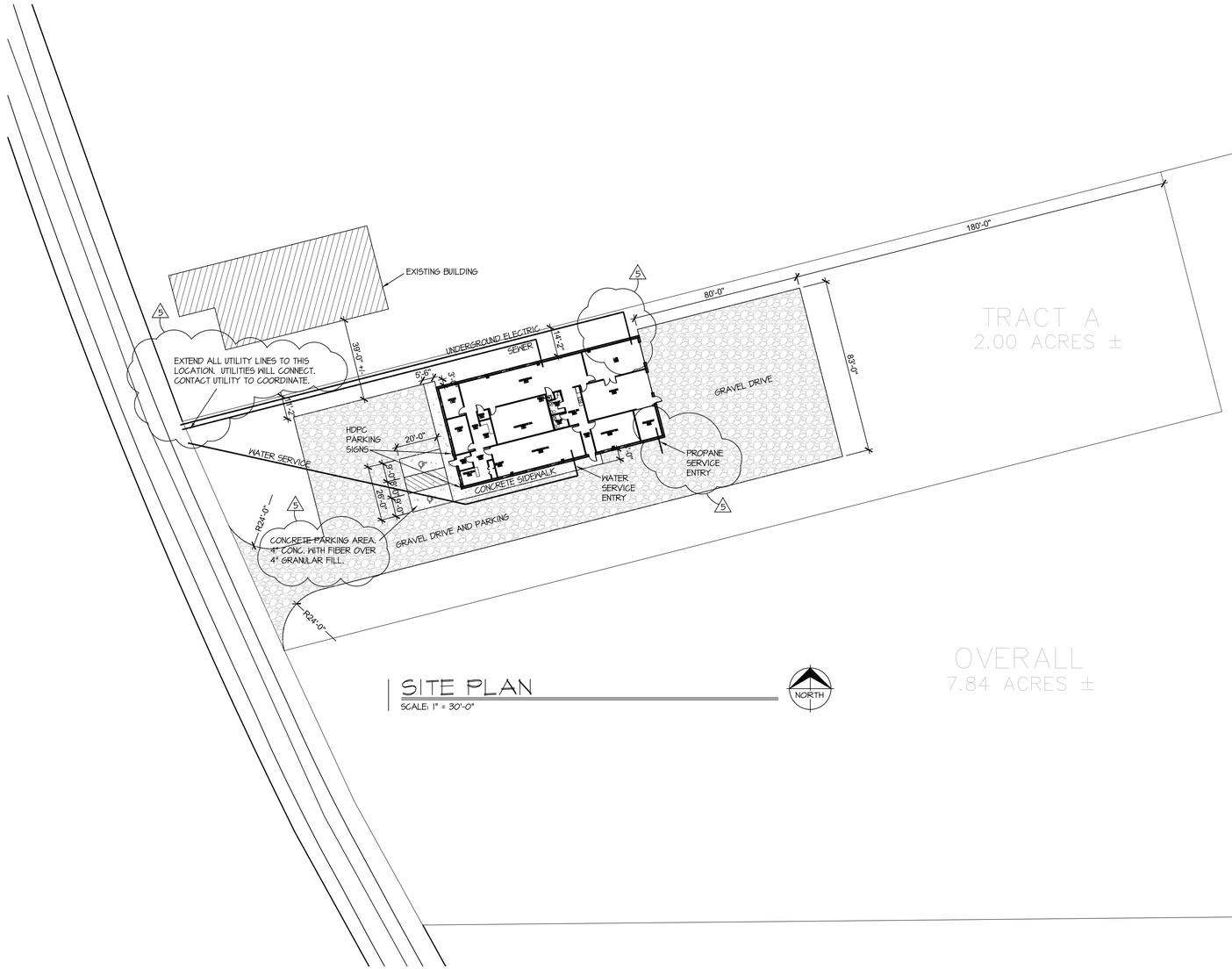
NORTH

CODE ANALYSIS

BUILDING CODE IN EFFECT:	2006 IBC
CONSTRUCTION TYPE CLASSIFICATION:	V-B
USE GROUP CLASSIFICATION:	USE GROUP: B
BUILDING FIRE SUPRESSION SYSTEM:	NOT REQUIRED (IBC 903.2.1.3)
FIRE SEPARATION BETWEEN BUILDING AREAS:	N.A.
MECHANICAL VENTILATION SYSTEM :	RE: MPE DOCUMENTS
ALLOWABLE HEIGHT AND BUILDING AREAS:	ALLOWABLE HEIGHT: (IBC TABLE 503) USE GROUP (B): 2 STORIES ALLOWABLE AREA: (IBC TABLE 503) USE GROUP (B): 9,000 SQ. FT.
PROPOSED HEIGHT AND BUILDING AREAS:	PROPOSED HEIGHT: USE GROUP (B): 1 STORIES PROPOSED AREA: USE GROUP (B): 6,000 SQ. FT.

FIRE-RESISTANCE RATING REQUIREMENTS:

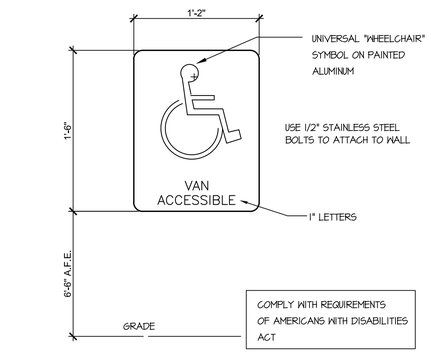
STRUCTURAL FRAME:	0 HRS.
BEARING WALLS (INT. & EXT.):	0 HRS.
NONBEARING WALLS AND PARTITIONS:	0 HRS.
ROOF CONSTRUCTION:	0 HRS
FLOOR CONSTRUCTION:	0 HRS.
CORRIDORS:	0 HRS
EXIT ENCLOSURE:	N.A.
MECH ROOM:	0 HR
STORAGE ROOM:	0 HR



SITE PLAN

SCALE: 1" = 30'-0"

NORTH



3 HANDICAP PARKING SIGN

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

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12-27-2012
1-10-2013

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DATE
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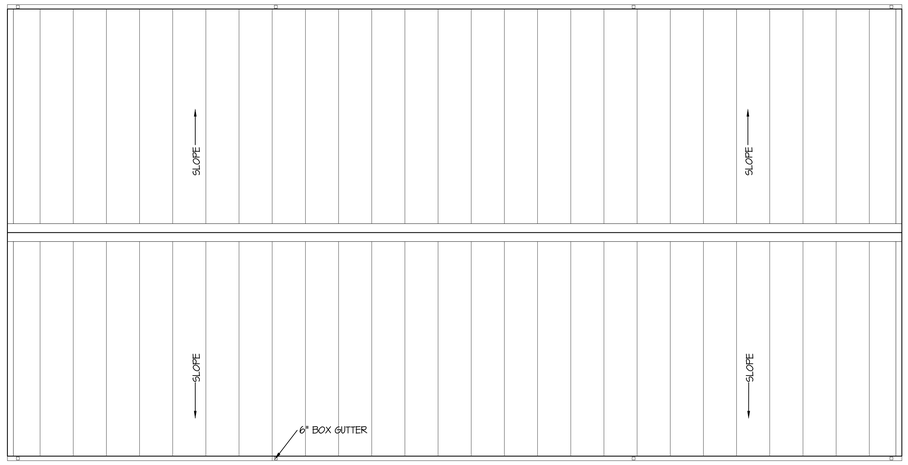
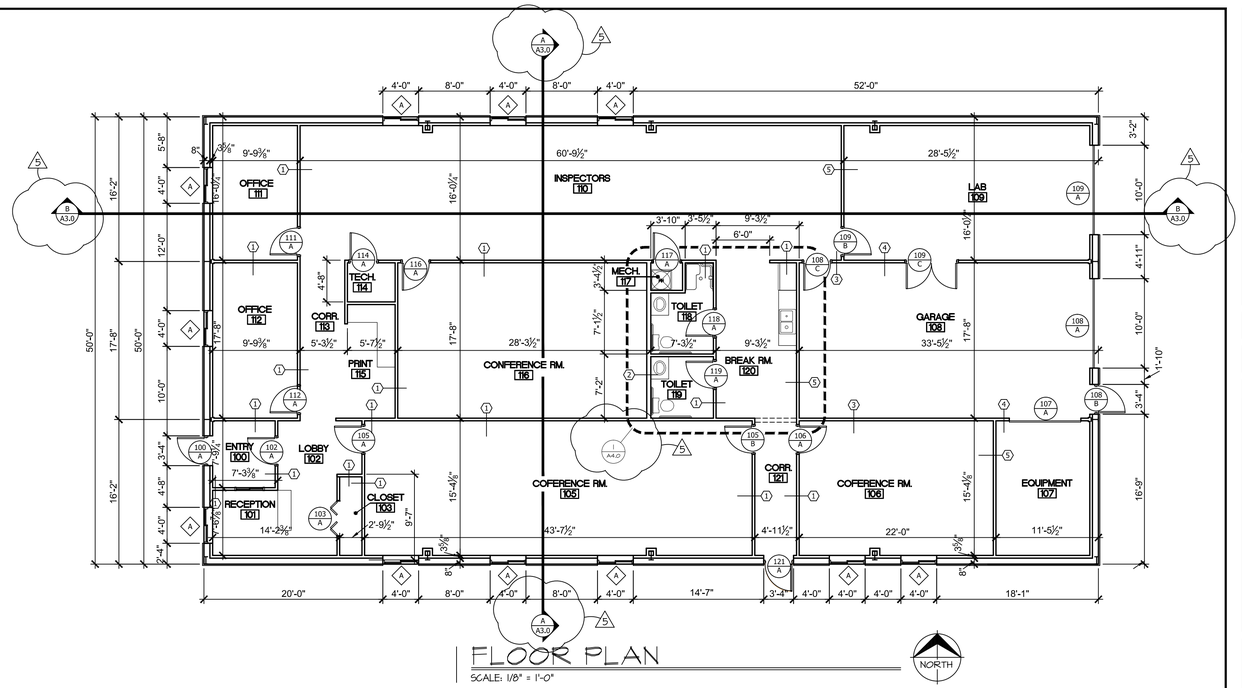
SHEET TITLE
SITE & CODE PLAN

JOB NO.
12-12

SHEET
A1.0



2 ROOF PLAN
SCALE: 1/8" = 1'-0"



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

LEGEND: REFER TO MECH & ELECT. PLANS FOR ADDITIONAL INFORMATION

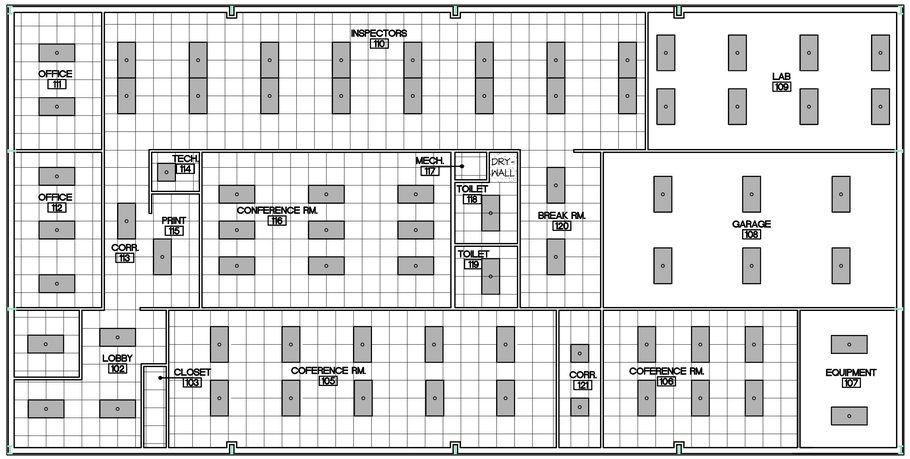
GENERAL NOTE: LIGHTING LEGEND IS GENERAL REFERENCE, REFER TO ELECTRICAL PLANS FOR SPECIFICS OF EACH FIXTURE.

GENERAL NOTE: REFER TO ELECTRICAL PLANS FOR EMERGENCY LIGHTS, EXIT LIGHT, ETC.

GENERAL NOTE: REFER TO FINISH SCHEDULE AND SPECIFICATIONS FOR CLARIFICATION OF CEILING FINISHES AND CEILNIG HEIGHTS

2'x2' LAY-IN ACOUSTICAL TILE CEILING RE: FINISH SCHEDULE

2'x4' LAY-IN FLUORESCENT: REF TO ELEC. DRAWINGS



3 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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11-7-2012
12-27-2012
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DATE
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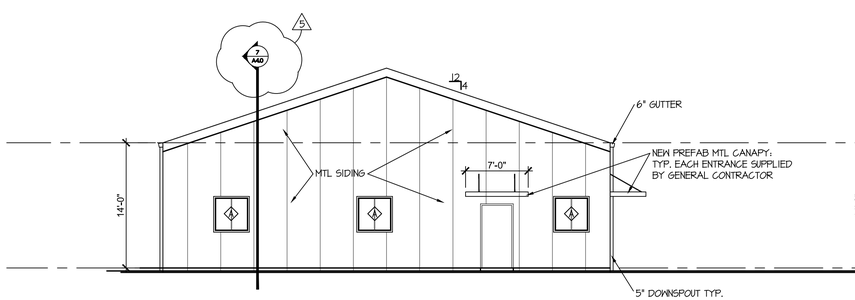
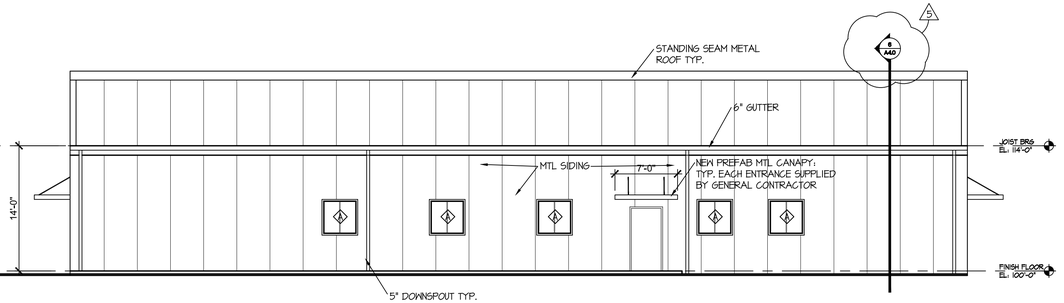
SHEET TITLE
PLANS
JOB NO.
12-12
SHEET
A2.0



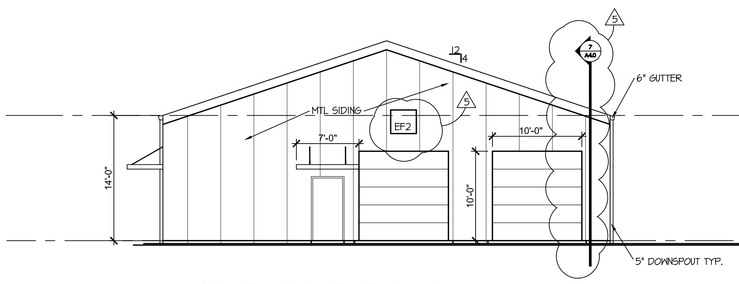
1 WEST ELEVATION

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



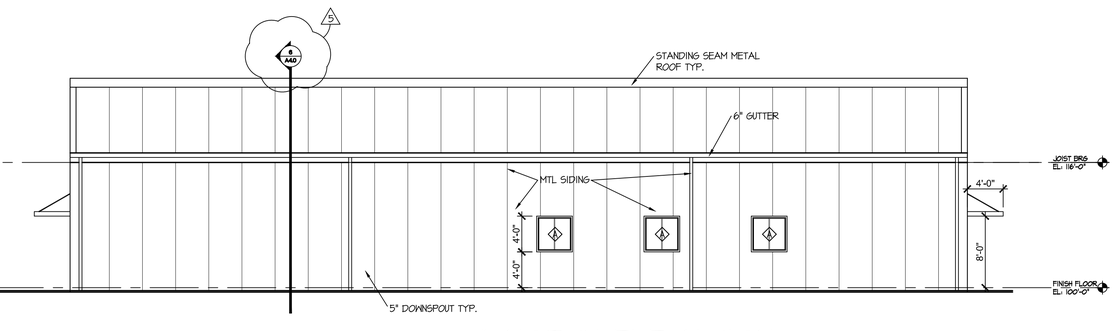
2 SOUTH ELEVATION

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



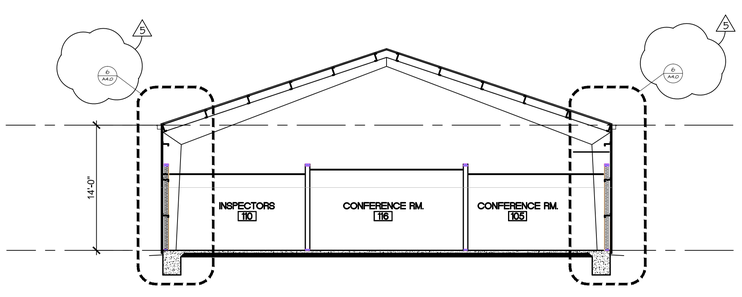
3 EAST ELEVATION

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



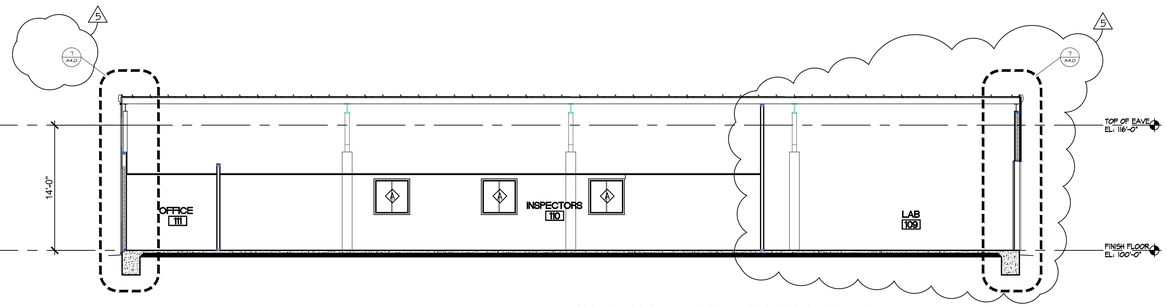
4 NORTH ELEVATION

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



BUILDING SECTION A-A

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



BUILDING SECTION B-B

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

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DATE
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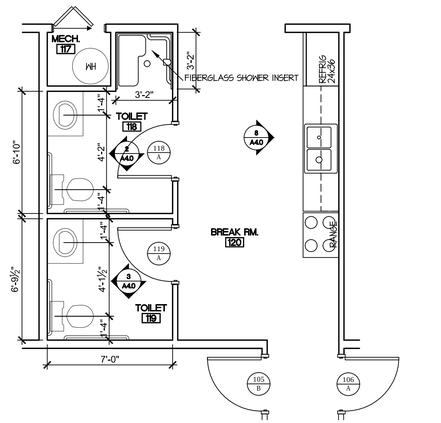
SHEET TITLE
ELEVATIONS

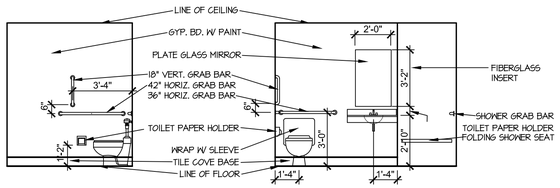
JOB NO.
12-12

SHEET
A3.0



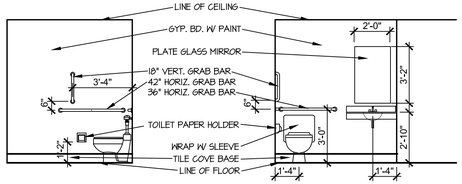
1 ENLARGED PLAN

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



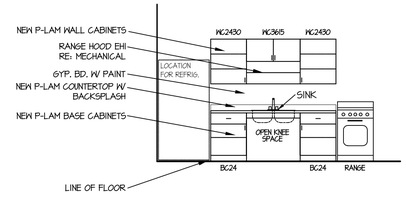
2 TOILET 118

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



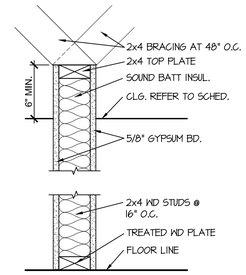
3 TOILET 119

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

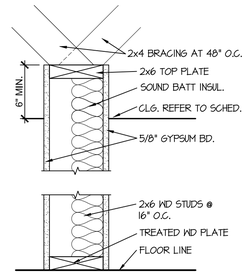


8 BREAK ROOM 120

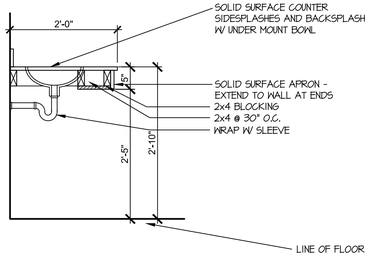
SCALE: 1/4" = 1'-0"



1

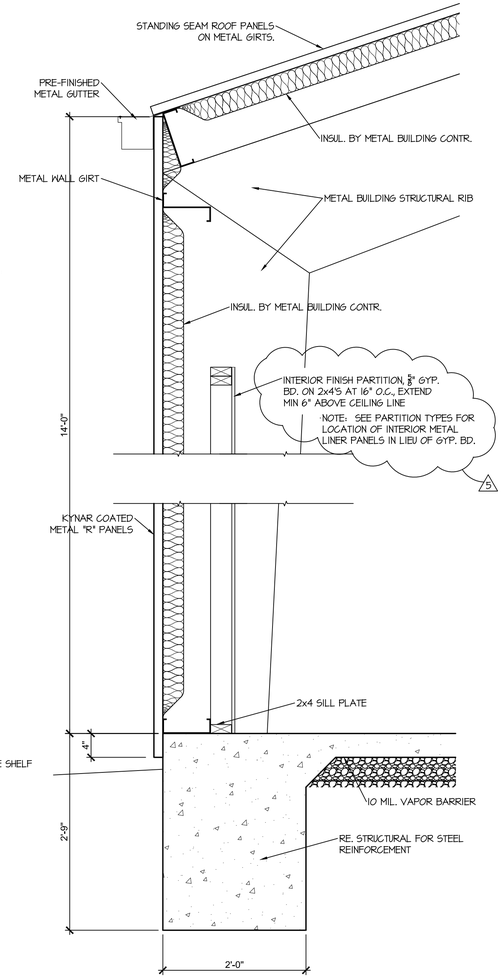


2



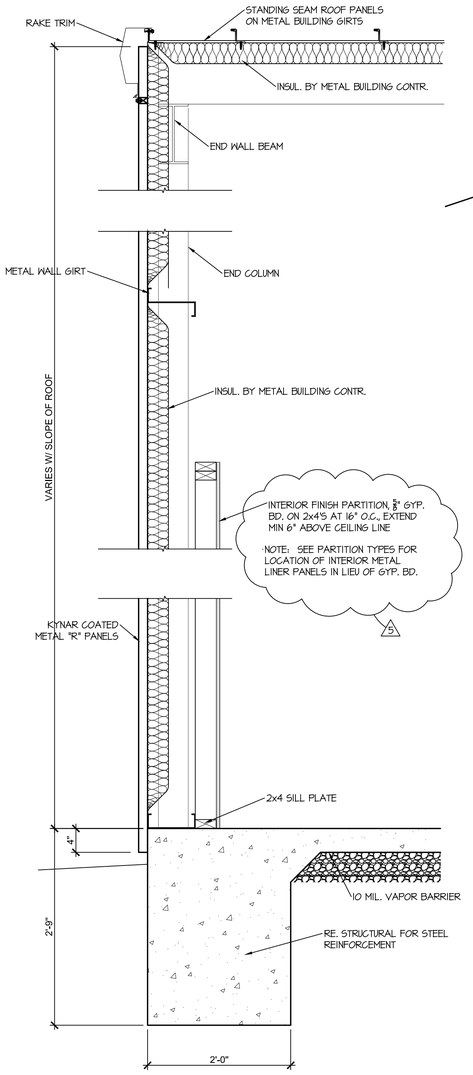
4 TYP. LAV COUNTER SECTION

SCALE: 3/4" = 1'-0"



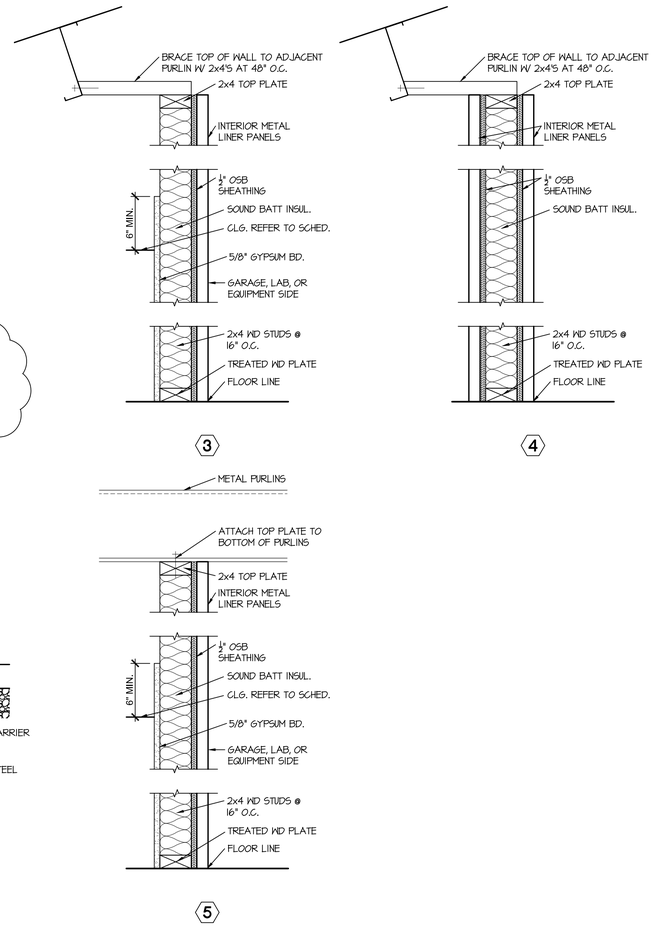
6 WALL SECTION

SCALE: 1" = 1'-0"



7 WALL SECTION

SCALE: 1" = 1'-0"



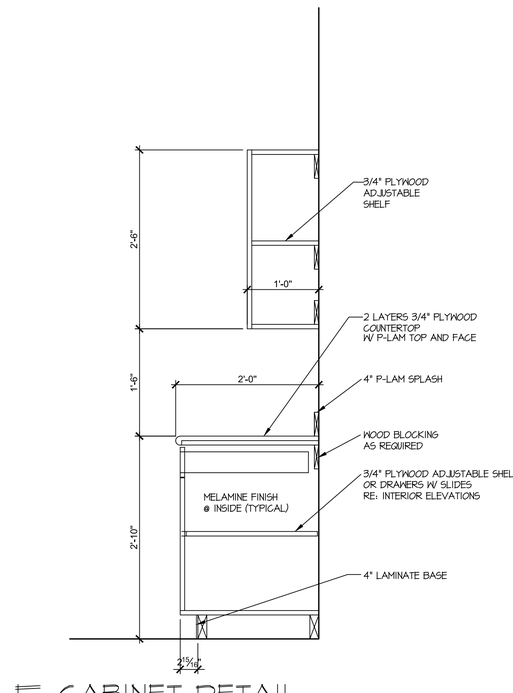
3

4

5

9 PARTITION TYPES

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



5 CABINET DETAIL

SCALE: 1" = 1'-0"

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DATE
22 JUNE 2012

SHEET TITLE
ENLARGED PLANS

JOB NO.
12-12

SHEET
A4.0

ROOM FINISH SCHEDULE

NO.	NAME	FLOOR: NO FLOOR FINISH	FLOOR: V.C.T.	FLOOR: CARPET TILE	FLOOR: SEALED CONCRETE	BASE: NO BASE	BASE: 4" PINE WOOD	WALL: GYP. BD.	WALL: GYP. BD. ACRYLIC LATEX	WALL: GYP. BD. ALKYD ENAMEL	WALL: METAL WALL PANELS	CEILING: GYP. BOARD	CEILING: ACOUSTICAL 2 X 2 LAY-IN	CEILING: EXPOSED	CLG HT.	REMARKS
100	ENTRY		●				●			●				●	8'-0"	
101	RECEPTION		●				●			●				●	8'-0"	
102	LOBBY		●				●			●				●	8'-0"	
103	CLOSET				●	●				●				●	8'-0"	
105	CONF. RM.			●			●			●				●	9'-0"	
106	CONF. RM.			●			●			●				●	9'-0"	
107	EQUIPMENT				●	●						●		●	12'-0"	
108	GARAGE				●	●						●		●	–	
109	LAB		●				●					●		●	12'-0"	
110	INSPECTORS		●				●			●				●	8'-6"	
111	OFFICE			●			●			●				●	8'-6"	
112	OFFICE			●			●			●				●	8'-6"	
113	CORRIDOR		●				●			●				●	8'-0"	
114	TECHNICAL		●			●				●				●	8'-0"	
115	PRINTING		●				●			●				●	8'-0"	
116	CONF. RM.			●			●			●				●	9'-0"	
117	MECHANICAL				●	●				●				●	8'-0"	
118	TOILET		●				●				●			●	8'-0"	DRYWALL CEILING OVER SHOWER ONLY
119	TOILET		●				●				●			●	8'-0"	
120	BREAK RM.		●				●			●				●	8'-0"	
121	CORRIDOR		●				●			●				●	8'-0"	

DOOR SCHEDULE

LOCATION NO.	ROOM	FROM	TO	U.L.	FRAME PROFILE	FRAME DETAIL	FRAME MTRL	FRAME FIN.	DOOR W.	DOOR HT.	DOOR TYPE	DOOR MTRL	DOOR THK.	DOOR FIN.	HDWR #	REMARKS
100-A	ENTRY	100	EXT.	-	A	VI	MTL.	PAINT	3'-0"	7'-0"	1	MTL	1 3/4"	PAINT	1	
102-A	LOBBY	102	100	-	A	II	MTL.	PAINT	3'-0"	7'-0"	1	MTL	1 3/4"	PAINT	2	
103-A	CLOSET	102	103	-	B	II	MTL.	PAINT	6'-0"	7'-0"	4	WOOD	1 3/4"	PRE-FIN	5	
105-A	CONFERENCE	105	102													USE EXISTING DOOR, FRAME AND HARDWARE
105-B	CONFERENCE	121	105													USE EXISTING DOOR, FRAME AND HARDWARE
106-A	CONFERENCE	121	106	-	A	II	MTL.	PAINT	3'-0"	7'-0"	3	WOOD	1 3/4"	PRE-FIN	6	
107-A	EQUIPMENT	108	107	-	BY MANF.	VII	MTL.	PRE-FINISH	8'-0"	8'-0"	5	MTL	1 3/4"	PRE-FIN	3	
108-A	GARAGE	108	EXT.	-	BY MANF.	VI	MTL.	PRE-FINISH	10'-0"	10'-0"	6	MTL	1 3/4"	PRE-FIN	3	
108-B	GARAGE	108	EXT.	-	A	III	MTL.	PAINT	3'-0"	7'-0"	1	MTL	1 3/4"	PAINT	1	
108-C	GARAGE	110	108	-	A	I	MTL.	PAINT	3'-0"	7'-0"	3	WOOD	1 3/4"	PRE-FIN	2	
109-A	LAB	108	EXT.	-	BY MANF.	IV	MTL.	PRE-FINISH	10'-0"	10'-0"	6	MTL	1 3/4"	PRE-FIN	3	
109-B	LAB	110	109	-	A	V	MTL.	PAINT	3'-0"	7'-0"	3	WOOD	1 3/4"	PRE-FIN	2	
109-C	LAB	109	108	-	B	V	MTL.	PAINT	3'-0"	7'-0"	3	WOOD	1 3/4"	PRE-FIN	4	
111-A	OFFICE	110	111													USE EXISTING DOOR, FRAME AND HARDWARE
112-A	OFFICE	113	112													USE EXISTING DOOR, FRAME AND HARDWARE
114-A	TECH	114	110													USE EXISTING DOOR, FRAME AND HARDWARE
116-A	CONFERENCE	110	116													USE EXISTING DOOR, FRAME AND HARDWARE
117-A	MECHANICAL	110	117													USE EXISTING DOOR, FRAME AND HARDWARE
118-A	TOILET	120	118													USE EXISTING DOOR, FRAME AND HARDWARE
119-A	TOILET	120	119													USE EXISTING DOOR, FRAME AND HARDWARE
121-A	CORRIDOR	121	EXT.	-	A	VI	MTL.	PAINT	3'-0"	7'-0"	1	MTL	1 3/4"	PAINT	1	

HARDWARE SETS

SET 1

3	ea	Hinges	BB1199 4-1/2x4-1/2 x US26D STANLEY
1	ea	Office	AU5304LN x 2-3/4 x A5A x US26D YALE
1	ea	Wall Stop	416 x US26D ROCKWOOD
1	ea	Deadbolt	D112 x 2-3/4 x US26D YALE
1	ea	Door Stop	1209 630 TRIMCO
1	ea	Head Seal	303 VA NATIONAL GUARD
2	ea	Jamb Seals	303 EV NATIONAL GUARD
1	ea	Door Bottom	315 VA NATIONAL GUARD
1	ea	Threshold	896 V 10-24 MS/LA AL NATIONAL GUARD
1	ea	Drip Cap	16 A 4"ODW NATIONAL GUARD

SET 2

3	ea	Hinges	BB1199 4-1/2x4-1/2 x US26D STANLEY
1	ea	Office	AU5304LN x 2-3/4 x A5A x US26D YALE
1	ea	Wall Stop	416 x US26D ROCKWOOD

SET 3
BY DOOR MANUFACTURER

SET 4

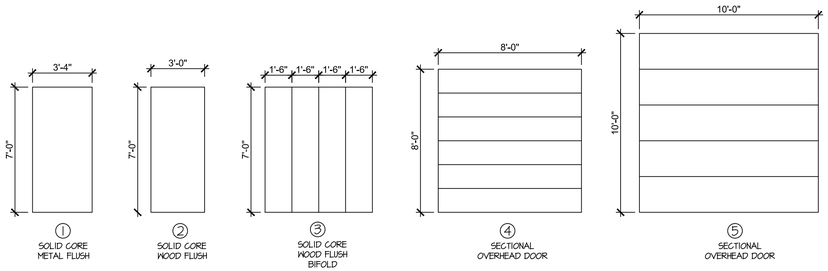
6	ea	Hinges	CB168 4 1/2 X 4 1/2 NRP US26D STANLEY
1	ea	Office	AU5304LN x 2-3/4 x A5A x US26D YALE
2	ea	Flush Bolts	3915 US26D TRIMCO
6	ea	Door Silencers	1229A GREY TRIMCO
2	ea	Wall Stop	416 x US26D ROCKWOOD

SET 5

1	Bifold Hardware Set	BFG125N-00-72	ST
2	Knob Pull	841 US26D	RO

SET 6

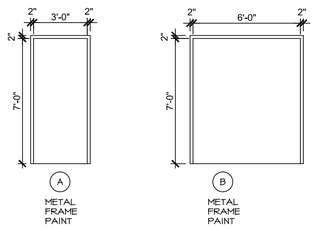
3	ea	Hinges	BB1199 4-1/2x4-1/2 x US26D STANLEY
1	ea	Passage	AU5401LN x 2-3/4 x A5A x US26D YALE
1	ea	Wall Stop	416 x US26D ROCKWOOD



① SOLID CORE METAL FLUSH
② SOLID CORE WOOD FLUSH
③ SOLID CORE WOOD FLUSH BIFOLD
④ SECTIONAL OVERHEAD DOOR
⑤ SECTIONAL OVERHEAD DOOR

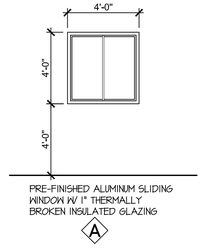
DOOR TYPES

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



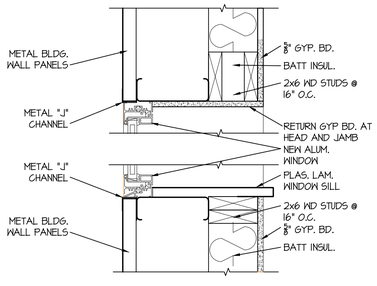
2 FRAME PROFILES

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



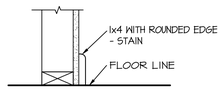
3 WINDOW TYPE

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



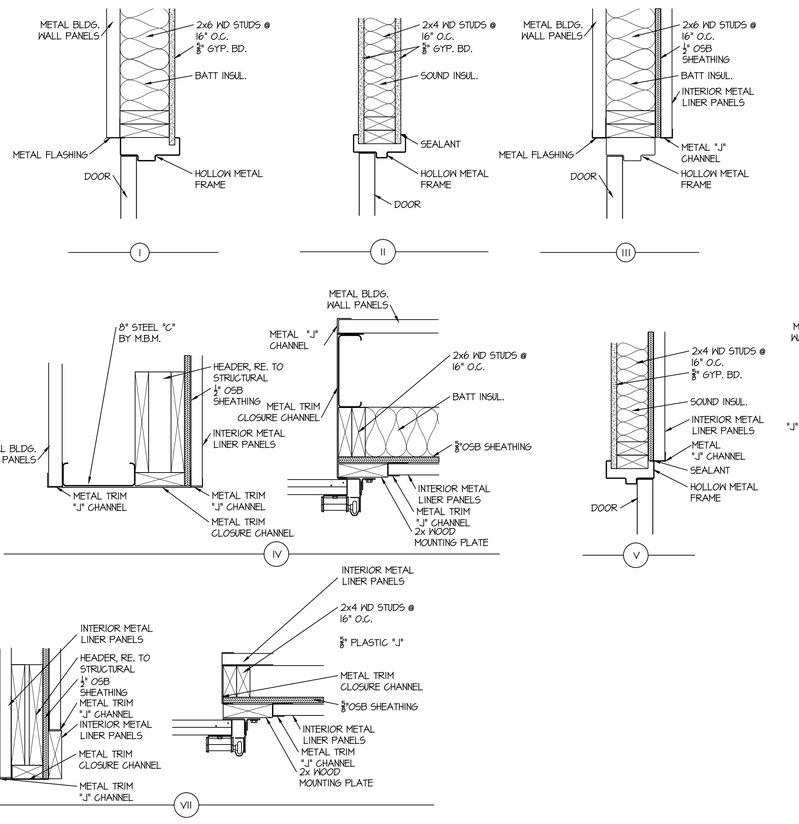
4 WINDOW SECTION

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



5 WOOD BASE

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



6 FRAME DETAILS

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

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

REVISIONS
8-1-2012
10-8-2012
11-1-2012
11-7-2012
12-21-2012

STATE OF MISSOURI ★ REGISTERED ★ ARCHITECT
BENJAMIN F. TRAXEL
NUMBER A-2002005717

BENJAMIN F. TRAXEL
ARCHITECT LICENSE NO.A-2002005717

ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. 2004003483

DILLE TRAXEL ARCHITECTURE
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NEW OFFICE BUILDING
MISSOURI DEPARTMENT OF TRANSPORTATION
COUNTY ROAD 523
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DATE
22 JUNE 2012
SHEET TITLE
SCHEDULES
JOB NO.
12-12
SHEET
A5.0

GENERAL CONSTRUCTION:

1. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
2. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SCOPE OF THE WORK AND SOIL AND WATER CONDITIONS BEFORE PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
5. VERIFY SIZE AND LOCATION OF HOLES AND SLEEVES THROUGH MASONRY AND CONCRETE WALLS AND SLABS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. GROUT BELOW BEAM BEARING AND COLUMN BASE PLATES SHALL BE IN PLACE AND PROPERLY CURED PRIOR TO ANY APPLICATION OF LOAD TO THE SUPPORTED MEMBER.
7. ALL STEEL BUILDING FRAMES, UNLESS OTHERWISE NOTED, ARE NON-SELF SUPPORTING STEEL FRAMES AS DEFINED IN THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303-05). THE CONTRACTOR SHALL PROVIDE TEMPORARY LATERAL BRACING FOR STEEL FRAMES UNTIL ALL BEAM-COLUMN CONNECTIONS ARE COMPLETE AND FLOOR AND ROOF DIAPHRAGMS ARE INSTALLED AND OF ADEQUATE STRENGTH.

FOUNDATIONS:

1. ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL OR COMPACTED FILL WHICH HAS A MINIMUM ALLOWABLE BEARING CAPACITY EQUAL TO OR GREATER THAN 1500 PSF.
2. ALL FOOTING ELEVATIONS SHOWN ON THE DRAWINGS MEET THE REQUIRED DEPTHS FOR BEARING AND/OR FROST PROTECTION. ACTUAL FIELD CONDITIONS MAY REQUIRE ADDITIONAL EXCAVATION AND/OR COMPACTED FILL.
3. SUBGRADE STRUCTURAL ELEMENTS SUBJECTED TO DIFFERENTIAL LATERAL SOIL PRESSURE SHALL BE ADEQUATELY BRACED UNTIL THE STRUCTURAL SLABS WHICH PROVIDE LATERAL RESTRAINT HAVE BEEN PLACED AND ALLOWED TO CURE FOR A MINIMUM OF (7) DAYS.

CONCRETE:

1. REINFORCED CONCRETE DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-05) BY THE AMERICAN CONCRETE INSTITUTE.
2. REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE "ACI STANDARD: DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315-92) AND THE "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315R-94) BY THE AMERICAN CONCRETE INSTITUTE. THE MOST CURRENT EDITIONS OF CONCRETE REINFORCING STEEL INSTITUTE'S "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS" MAY ALSO BE USED.
3. MINIMUM CONCRETE COMPRESSIVE STRENGTH (f'c) AT 28 DAYS:

FOOTINGS	4000 PSF
FOUNDATION WALLS AND GRADE BEAMS	4000 PSI
BASEMENT/RETAINING WALLS	4000 PSI
SLABS ON GRADE	4000 PSI
LIGHT WEIGHT CONCRETE TOPPING SLABS	4000 PSI

4. CONCRETE REINFORCEMENT:

   DEFORMED BARS – NEW BILLET STEEL COMPLYING WITH ASTM A615 AND HAVING A MINIMUM YIELD STRENGTH OF 60,000 PSI.

   WELDED WIRE FABRIC – SMOOTH WIRE FABRIC COMPLYING WITH ASTM A185.

5. CONCRETE PROTECTION FOR REINFORCEMENT:

   UNLESS OTHERWISE SHOWN THE CLEAR DISTANCE FROM THE FACE OF CONCRETE TO THE REINFORCING STEEL SHALL BE:

CONCRETE POURED AGAINST GROUND (NOTE A)	3"
CONCRETE POURED AGAINST FORMS (NOTE A,B,C):	
#6 BARS OR LARGER	2"
SMALLER THAN #6 BARS	1½"
SLABS POURED TO FORMS:	
FORMED SURFACE (NOTE B)	1"
SCREEDED SURFACE FOR APPLIED TOPPING	¾"
SLABS POURED ON GRADE:	
FROM BOTTOM SURFACE	2"
TROWELED SURFACE (NOTE B)	1"
SCREEDED SURFACE FOR APPLIED TOPPING	¾"

   (NOTE A) EXCLUDING SLABS POURED ON GRADE.
   (NOTE B) INCREASE BY ½" IF SURFACE IS TO BE IN PERMANENT CONTACT WITH GROUND OR WATER.
   (NOTE C) USE ONE-HALF THE CLEAR DISTANCE SHOWN FOR WEBS OF CONCRETE JOISTS.

6. UNLESS OTHERWISE SHOWN OR NOTED, SPLICING OF REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-05 SECTIONS 12.14 THROUGH 12.17. SPLICING OF WELDED WIRE FABRIC SHALL CONFORM TO ACI 318-05 SECTIONS 12.18 AND 12.19.
7. UNLESS OTHERWISE SHOWN OR NOTED, TOP AND BOTTOM BARS FOR CONTINUOUS BEAMS SHALL BE OF MAXIMUM LENGTH WITH SPLICES LOCATED AT MID SPAN FOR TOP BARS AND AT SUPPORTS FOR BOTTOM BARS.
8. ALL HORIZONTAL BARS IN WALLS OR GRADE BEAMS SHALL BE BENT AT CORNERS AND INTERSECTIONS IN SUCH A WAY THAT CONTINUITY IS PROVIDED THROUGH THE JOINT. SEPARATE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING MAY BE SUBSTITUTED FOR THE BENT PORTION OF THE CONTINUOUS BARS.
9. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED IN THE STRUCTURE UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON SHOP DRAWINGS. WHEN CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS ARE REQUIRED, THE REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT AND A KEY SHALL BE PROVIDED FOR ADEQUATE SHEAR TRANSFER.
10. ALL KEYS FOR CONSTRUCTION JOINTS SHALL BE 2x4 (NOMINAL) UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
11. ALL CONCRETE BEAMS SHALL BE PLACED MONOLITHICALLY WITH THE ADJACENT SLABS, UNLESS OTHERWISE SHOWN OR NOTED.
12. UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE 2 – #5 BARS (1-EACH FACE) AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO SIDES OF OPENING AND EXTEND 24" BEYOND CORNERS.

PRE-ENGINEERED METAL BUILDING

1. PRE-ENGINEERED METAL BUILDING SUPPLIER SHALL PROVIDE BUILDING LOAD REACTIONS FOR FINAL MODIFICATIONS TO BUILDING FOUNDATIONS AND RECOMMENDED ANCHOR BOLT SIZES AND PLACEMENT.

NOTIFY ARCHITECT IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

HAIRPIN
NOT TO SCALE

A SECTION (S1.0 S1.0)
SCALE: 3/4"=1'-0"

B SECTION (S1.0 S1.0)
SCALE: 3/4"=1'-0"

C SECTION (S1.0 S1.0)
SCALE: 3/4"=1'-0"

FOUNDATION/SLAB PLAN
SCALE: 1/8" = 1'-0"

NORTH

ANCHOR BOLT PLACEMENT PER METAL BUILDING MANUFACTURER'S GUILDLINES AND LAYOUT.

BAR SIZE	LENGTH OF LAPPED SPLICES FOR REINFORCING IN INCHES		LENGTH OF EMBEDMENT FOR END ANCHORAGE OF REINFORCING IN INCHES	
	* TOP BARS	OTHERS	* TOP BARS	OTHERS
3	18	14	14	12
4	24	18	18	14
5	30	23	23	18
6	40	31	31	23
7	54	42	42	32
8	71	54	54	42
9	90	69	69	53
10	114	87	87	67
11	140	108	108	93
14	← NOT PERMITTED →		202	155
18	← NOT PERMITTED →		357	276

* TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS SHALL BE PROVIDED WITH LAPS AS REQUIRED FOR TOP BARS.

EXCEPT AS OTHERWISE INDICATED ON THE PLANS, EMBEDMENT LENGTHS FOR END ANCHORAGES AND LAPPED SPLICES SHALL NOT BE LESS THAN SHOWN ABOVE.

NO SPLICES SHALL BE MADE EXCEPT WHERE SHOWN ON THE DESIGN DRAWINGS OR AS SPECIFIED OR AUTHORIZED BY THE ENGINEER.

BUILDING DESIGN CRITERIA

OCCUPANCY CATAGORY II
BUILDING DESIGN LOADS
ROOF DL=10 PSF
ROOF LL=20 PSF
GROUND SL=15 PSF
WIND 90 MPH, EXPOSURE C, I=1.0

SNOW LOADS
pf=0.7 (Ce)(Ct)(I)(pg)
Ce=1.0 I=1.0
Ct=1.0
SEISMIC LOADS ORDINARY STEEL MOMENT FRAMES
I=1.0
$S_s=1.100$ $S_{DS}=0.777$
$S_1=0.303$ $S_{D1}=0.363$
SITE CLASS D
DESIGN CATEGORY D
R=3.5
$C_s = \frac{S_{DS}}{(R/I)} = \frac{0.777}{(3.5/1)} = 0.222$
V=CsW

EQUIVALENT LATERAL FORCE PROCEDURE

TYPICAL CONSTRUCTION JOINT (KJ)

TYPICAL CONTROL JOINT (SJ)

NOTE:
1. A CONSTRUCTION JOINT (KJ) MAY REPLACE ANY CONTROL JOINT (SJ).

TYPICAL CONCRETE SLAB ON GRADE DETAILS
SCALE: 3/4"=1'-0"

HORNER & SHIFRIN, INC.
ENGINEERS
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417-865-7000 · FAX 417-865-7003 · www.HornerShifrin.com
Discipline: Professional Engineering
Certificate of Authority: 000159
Expiration Date: December 31, 2012

REVISIONS
8-1-2012
10-8-2012

STATE OF MISSOURI KEVIN CHARLES SKIBISKI NUMBER E-19452 REGISTERED PROFESSIONAL ENGINEER

KEVIN C. SKIBISKI, PE
MISSOURI LICENSE NO. 19452

ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. 2009003483

DILLE & TRAXEL, llc
ARCHITECTS
4061 highway PP, suite 2
poplar bluff MO 63901
(p) 573 - 778 - 0033
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NEW OFFICE BUILDING
MISSOURI DEPARTMENT OF TRANSPORTATION
COUNTY ROAD 523
POPLAR BLUFF, MO 63901

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DATE
22 JUNE 2012
SHEET TITLE
PLAN AND DETAILS
JOB NO.
12-12
SHEET
S1.0

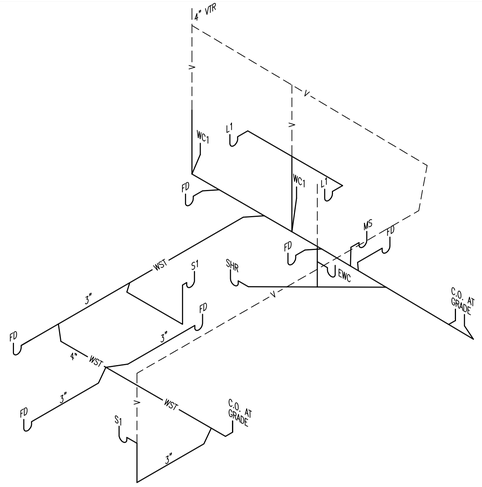
PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE CONNECTION	VENT CONNECTION	CW SUPPLY	HW SUPPLY	MANUFACTURER AND MODEL (OR APPROVED EQUAL)
WC1	WATER CLOSET ADA	4"	4"	1/2"	--	AMERICAN STANDARD 2998.012, 16.5" LIP HEIGHT, CHURCH MODEL 9500C SEAT, SUPPLY & STOP, MOUNT PER ADA.
L1	LAVATORY	2"	2"	1/2"	1/2"	AMERICAN STANDARD 3004.207, DELTA 501 FAUCET, SUPPLIES & STOPS, WITH P-TRAP, TRUBRO LAVGUARD INSULATION ON SUPPLIES AND WASTE.
S1	KITCHEN SINK	2"	2"	1/2"	1/2"	ELKAY CR3322, DELTA 2400LF FAUCET, SUPPLIES, & STOPS, WITH P-TRAP.
FD	FLOOR DRAIN	2"	--	--	--	WATTS FD-100-A, WITH P-TRAP.
WH1	WATER HEATER	--	--	3/4"	3/4"	A.O. SMITH DEL-40, 40 GAL. CAPACITY, 4,500 WATT NON-SIMUTANEOUS ELEMENT, 240V.
FPHB	HOSE BIB	--	--	3/4"	--	WOODFORD MODEL 74 FREEZE PROOF HOSE BIB.
SHR	SHOWER	2"	2"	1/2"	1/2"	AMERICAN STANDARD ACRYLUX 3636Y1K.ST, DELTA T17T285 SHOWER HEAD & VALVE, SUPPLIES & STOPS, WITH P-TRAP.
MS	MOP SINK	3"	3"	3/4"	3/4"	SWAN MS-2424, MS-2408 VINYL RIM GUARD, MS-2405 HOSE & HOLDER, MS2437 MOP HANGER, WITH STRAINER & DELTA 28T9 FAUCET.
EWC	WATER COOLER	2"	2"	1/2"	--	HALSEY TAYLOR HVR8 ADA, 7.8 GPH, 120V, SUPPLY & STOP, MOUNT PER ADA.
BFPV	BACKFLOW PREVENTOR	--	--	1"	--	WATTS 009 SERIES REDUCED PRESSURE BACKFLOW PREVENTOR INSTALLED UNDER WATER HEATER
HB	HOSE BIB	--	--	3/4"	--	WOODFORD MODEL 14 HOSE BIB.

WATER SERVICE CALCULATION

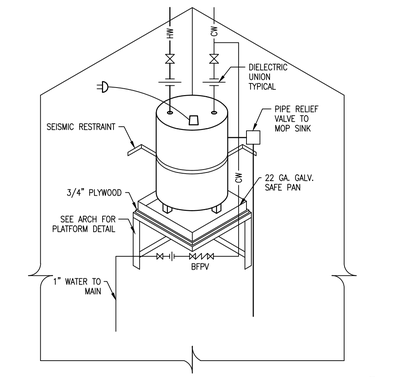
FIXTURE	NO. OF FIXTURES	QUANTITY	FIXTURE UNITS	TOTAL UNITS PER FIXTURE
WC1	2	@	2.00	4.00
L1	2	@	2.00	4.00
SHR	1	@	1.40	1.40
S1	2	@	1.40	2.80
MS	1	@	3.00	3.00
EWC	1	@	0.25	0.25
TOTAL		=		15.45
		=		17.000

REQUIRED		
WATER SERVICE SIZE	=	1"
WATER TAP SIZE	=	1"
WATER METER SIZE	=	1"
PROVIDED		
WATER SERVICE SIZE	=	1"
WATER TAP SIZE	=	1"
WATER METER SIZE	=	1"



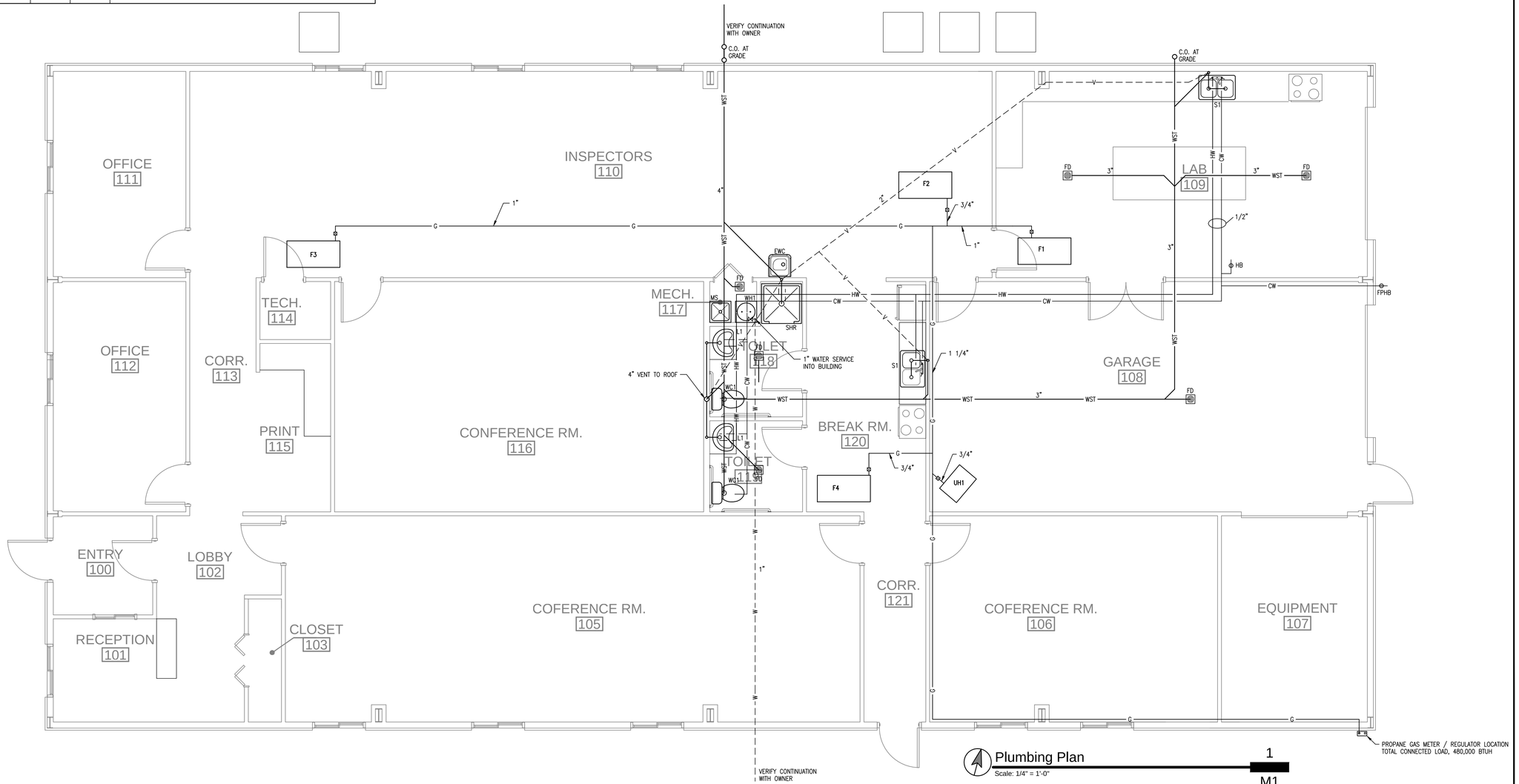
Plumbing Riser Diagram — 2 / M1

No Scale



Water Heater Mounting Detail — 3 / M1

No Scale



Plumbing Plan — 1 / M1

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

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D. Willis Sandin, P.E.
Sole Proprietor

REVISIONS

STATE OF MISSOURI — DUANE W. SANDIN — NUMBER 2009018804 — REGISTERED PROFESSIONAL ENGINEER — 1-3-13

DUANE W. SANDIN
LICENSE NO. E-2009018804
SOLE PROPRIETOR

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NEW OFFICE BUILDING
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COUNTY ROAD 523
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DATE
22 JUNE 2012

SHEET TITLE
Plumbing Plan

JOB NO.
12-12

SHEET
M1

HVAC EQUIPMENT SCHEDULE

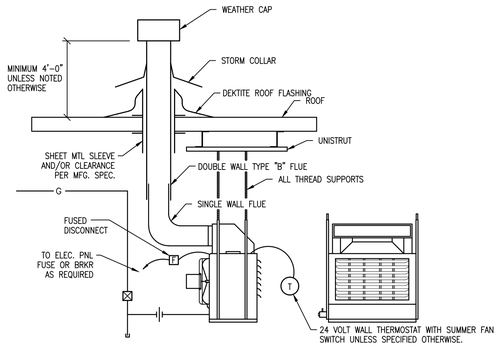
HEATING AND AIR CONDITIONING

MARK	HEATING BTU INPUT (kW)	HEATING BTU OUTPUT	TOTAL COOLING	SENSIBLE COOLING	BLOWER CFM @ 0.5"	MAXIMUM OUTDOOR AIR CFM	V / ø	MODEL #	REMARKS
F1 / C1	40,000	37,200	24,000	18,000	800	200	120 / 1 240 / 1	CARRIER 58MCB04010008 / CAPMP2419ACA / 24ABB324A0030	1)
F2 / C2	100,000	93,000	42,000	30,500	1,300	300	120 / 1 240 / 1	CARRIER 58MCB10010016 / CAPMP4221ACA / 24ABB342A0030	1)
F3 / C3	100,000	93,000	48,000	36,000	1,600	400	120 / 1 240 / 1	CARRIER 58MCB10010016 / CAPMP4821ACA / 24ABB348A0030	1)
F4 / C4	100,000	93,000	60,000	45,000	1,950	400	120 / 1 240 / 1	CARRIER 58MCB10010016 / CAPMP6021ACA / 24ABB360A0030	1)
UH1	100,000	80,000	--	--	1,645	--	120 / 1	REZNOR MODEL B-100	--

EXHAUST FANS

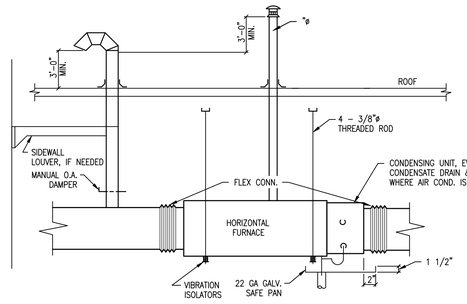
MARK	CFM	ESP	DRIVE	RPM	HP (WATTS)	V / ø	MODEL	REMARKS
EF1	75	0.125"	DIRECT	900	(60)	120 / 1	COOK GC-124	2)
EF2	--	--	--	--	--	--	AS PROVIDED BY OWNER.	3)

1) VERIFY PROPANE OR NATURAL GAS AVAILABILITY PRIOR TO ORDERING OF EQUIPMENT. WITH 7 DAY PROGRAMMABLE T-STAT, OR APPROVED EQUAL.
2) SWITCH WITH LIGHTS, OR APPROVED EQUAL.
3) MOUNT AS HIGH AS POSSIBLE ABOVE GARAGE DOOR.



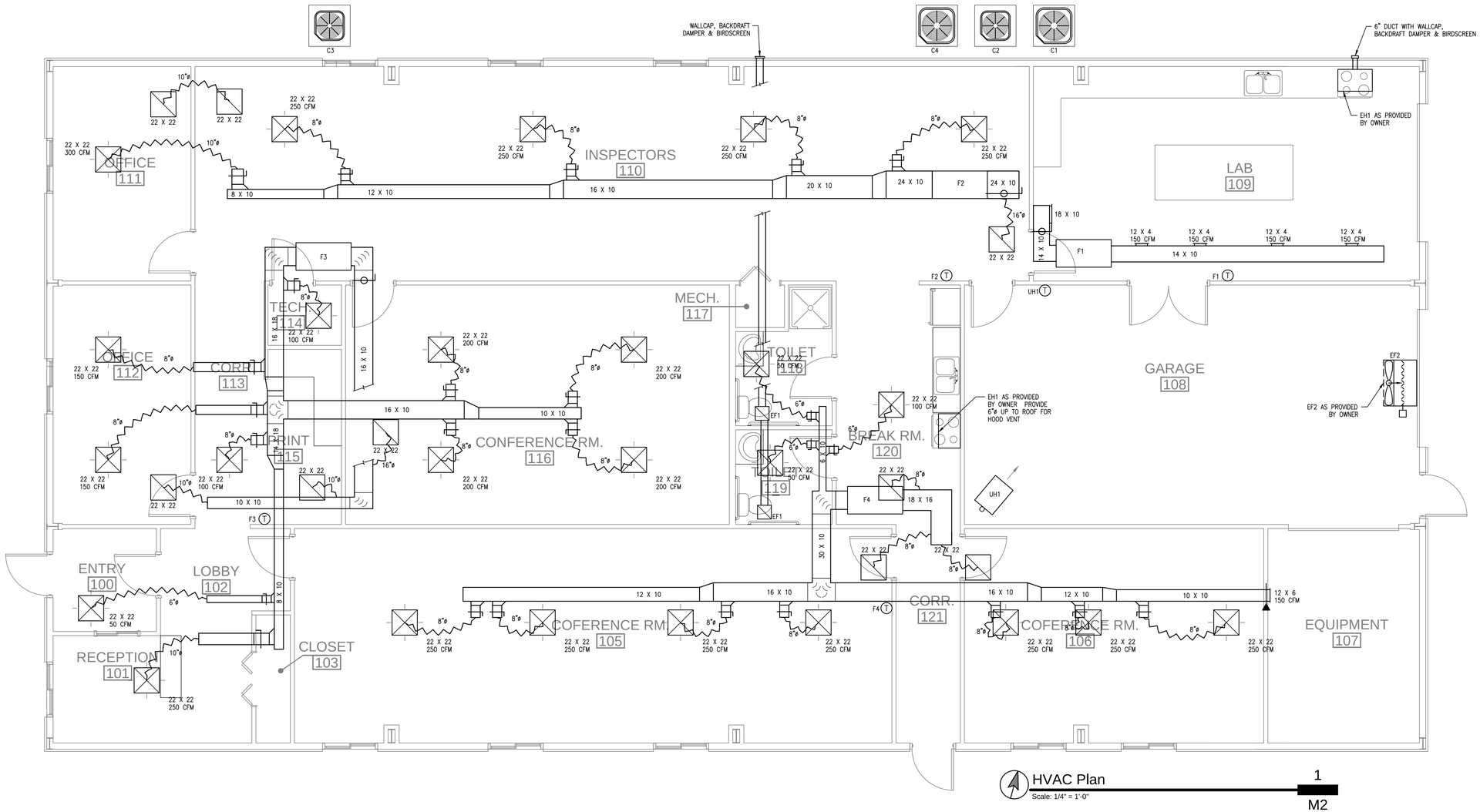
Unit Heater Mounting — 2 / M2

No Scale



Furnace Mounting — 3 / M2

No Scale



HVAC Plan — 1 / M2

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

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REVISIONS

STATE OF MISSOURI — DUANE W. SANDIN — NOTARIAL SEAL — 08/31/2014 — REGISTERED PROFESSIONAL ENGINEER — 1-3-13

DUANE W. SANDIN
LICENSE NO. E-2009018804

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DATE
22 JUNE 2012

SHEET TITLE
HVAC Plan

JOB NO.
12-12

SHEET
M2

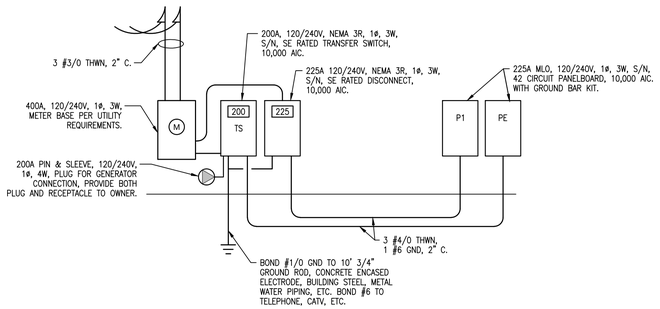
P1

VOLTS 120/240
PHASE 1ø
WIRE 3W

MAIN CAPACTIY 225A MLO
MOUNTING SURFACE
AIC 10,000

CIRC NO	LOCATION / DESCRIPTION		CIRC BRKR	WIRE SIZE	WATTS	ø	WATTS	WIRE SIZE	CIRC BRKR	LOCATION / DESCRIPTION	CIRC NO
1	STORAGE RMǂ 107 RECEPTACLES	GFI	20-1	#12	540	A	930	#12	20-1	GARAGE LIGHTS	2
3	GARAGE 108 RECEPTACLES	GFI	20-1	#12	900	B	920	#12	20-1	LAB RMǂ 109 LIGHTS	4
5	GARAGE 108 RECEPTACLES	GFI	20-1	#12	540	A	920	#12	20-1	INSPECTORS RMǂ 110 LIGHTS	6
7	LAB RMǂ 109 RECEPTACLES		20-1	#12	540	B	2,661	#10	30-2	C2	8
9	LAB RMǂ 109 RECEPTACLES		20-1	#12	360	A	2,661	#10			10
11	LAB ISLAND QUADPLEXS		20-1	#12	720	B	1,521	#12	20-2	C1	12
13	LAB COUNTER RECEPTACLE	GFI	20-1	#12	180	A	1,521	#12			14
15	LAB COUNTER RECEPTACLE	GFI	20-1	#12	180	B	864	#12	20-1	F2	16
17	LAB COUNTER RECEPTACLES		20-1	#12	900	A	864	#12	20-1	F1	18
19	BREAK ROOM JBOX		20-1	#12	100	B					20
21	RANGE		50-2	#8	4,000	A					22
23				#8	4,000	B					24
25	PRINT RMǂ 115 RECEPTACLES		20-1	#12	720	A					26
27	RV PLUG		50-2	#6	0	B					28
29				#6	0	A					30
31	WPGFI's		20-1	#12	360	B					32
33	LAB OVEN		20-2	#12	1,500	A					34
35				#12	1,500	B					36
37	EF2		20-2	#12	864	A					38
39				#12	864	B					40
41	LAB ROOM JBOX		20-1	#12	100	A					42

GRAND TOTALS: WATTS: 31,730 AMPERES: 132.2 A @ 240-1-60



Electric Riser Diagram 2
No Scale E1

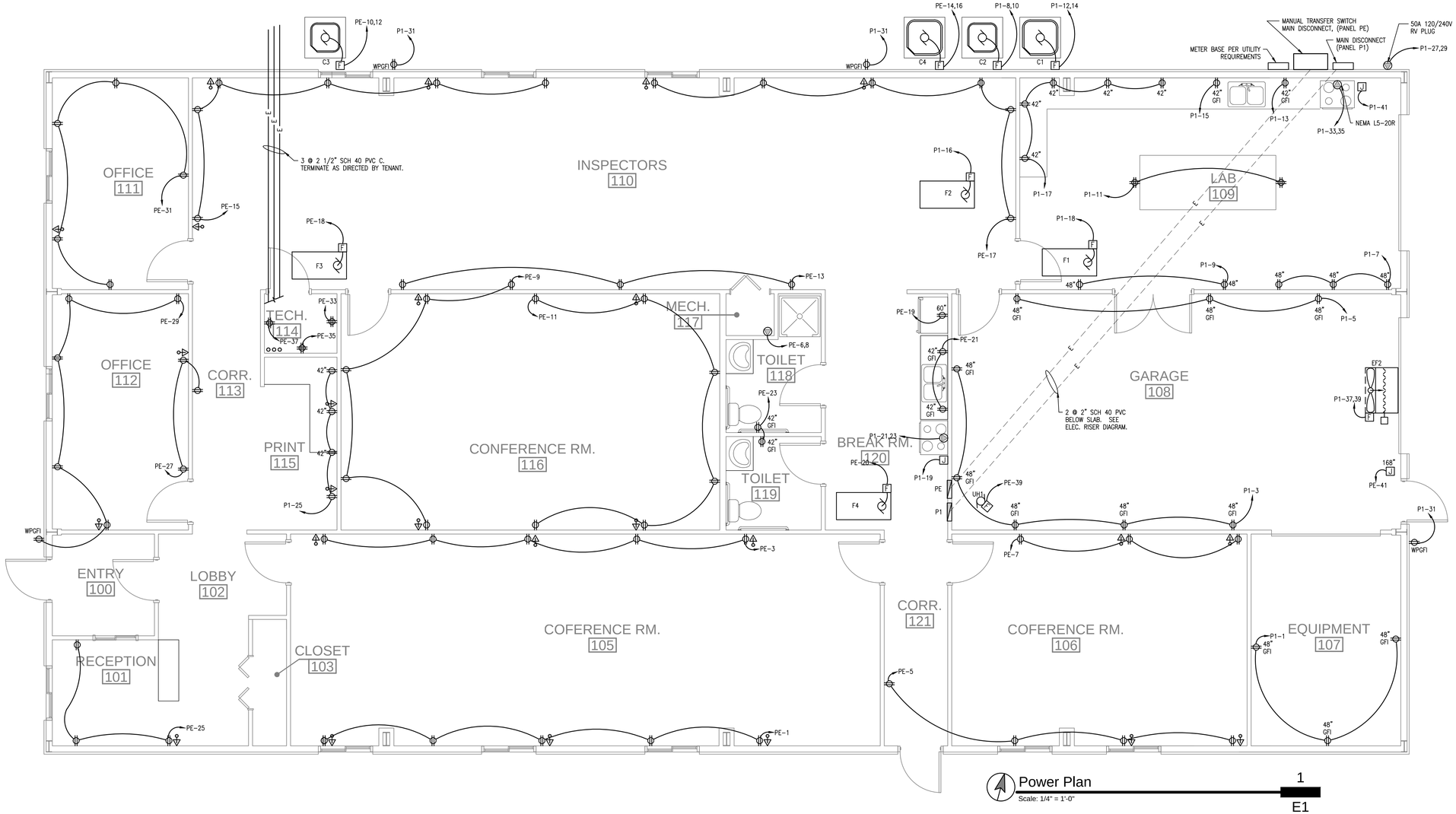
PE

VOLTS 120/240
PHASE 1ø
WIRE 3W

MAIN CAPACTIY 225A MLO
MOUNTING SURFACE
AIC 10,000

CIRC NO	LOCATION / DESCRIPTION		CIRC BRKR	WIRE SIZE	WATTS	ø	WATTS	WIRE SIZE	CIRC BRKR	LOCATION / DESCRIPTION	CIRC NO
1	CONFERENCE RMǂ 105 RECEPTACLES		20-1	#12	900	A	1390	#12	20-1	BREAKROOM LIGHTS	2
3	CONFERENCE RMǂ 105 RECEPTACLES		20-1	#12	900	B	1150	#12	20-1	CONFERENCE RMǂ 105	4
5	CONFERENCE RMǂ 106 RECEPTACLES		20-1	#12	720	A	1288	#12	20-1	CORR, PRINT, OFFICE 112,101,111 LIGHTS	6
7	CONFERENCE RMǂ 106 RECEPTACLES		20-1	#12	540	B	920	#12	20-1	INSPECTORS RMǂ 110	8
9	CONFERENCE RMǂ 116 RECEPTACLES		20-1	#12	900	A	3,042	#8	40-2	C3	10
11	CONFERENCE RMǂ 116 RECEPTACLES		20-1	#12	1,080	B	3,042	#8			12
13	INSPECTORS RMǂ 110 RECEPTACLES		20-1	#12	540	A	3,802	#6	50-2	C4	14
15	INSPECTORS RMǂ 110 RECEPTACLES		20-1	#12	1,080	B	3,802	#6			16
17	INSPECTORS RMǂ 110 RECEPTACLES		20-1	#12	1,080	A	864	#12	20-1	F3	18
19	REFRIGERATOR RECEPTACLE		20-1	#12	864	B	864	#12	20-1	F4	20
21	BREAK ROOM RECEPTACLES	GFI	20-1	#12	360	A					22
23	UNISEX BATHROOM RECEPTACLES	GFI	20-1	#12	360	B					24
25	RECEPTION AREA RECEPTACLES		20-1	#12	540	A					26
27	OFFICE RMǂ 112 RECEPTACLES		20-1	#12	540	B					28
29	OFFICE RMǂ 112 RECEPTACLES		20-1	#12	1,080	A					30
31	OFFICE RMǂ 111 RECEPTACLES		20-1	#12	900	B					32
33	TECH RMǂ 114 QUADPLEX		20-1	#12	360	A					34
35	TECH RMǂ 114 QUADPLEX		20-1	#12	360	B					36
37	TECH RMǂ 114 QUADPLEX		20-1	#12	360	A					38
39	UH1		20-1	#12	432	B					40
41	OVERHEAD DOOR		20-1	#12	432	A					42

GRAND TOTALS: WATTS: 34,492 AMPERES: 143.7 A @ 240-1-60



Power Plan 1
Scale: 1/4" = 1'-0" E1

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REVISIONS

STATE OF MISSOURI DUANE W. SANDIN NUMBER PE-2009018804 REGISTERED PROFESSIONAL ENGINEER 1-3-13

DUANE W. SANDIN
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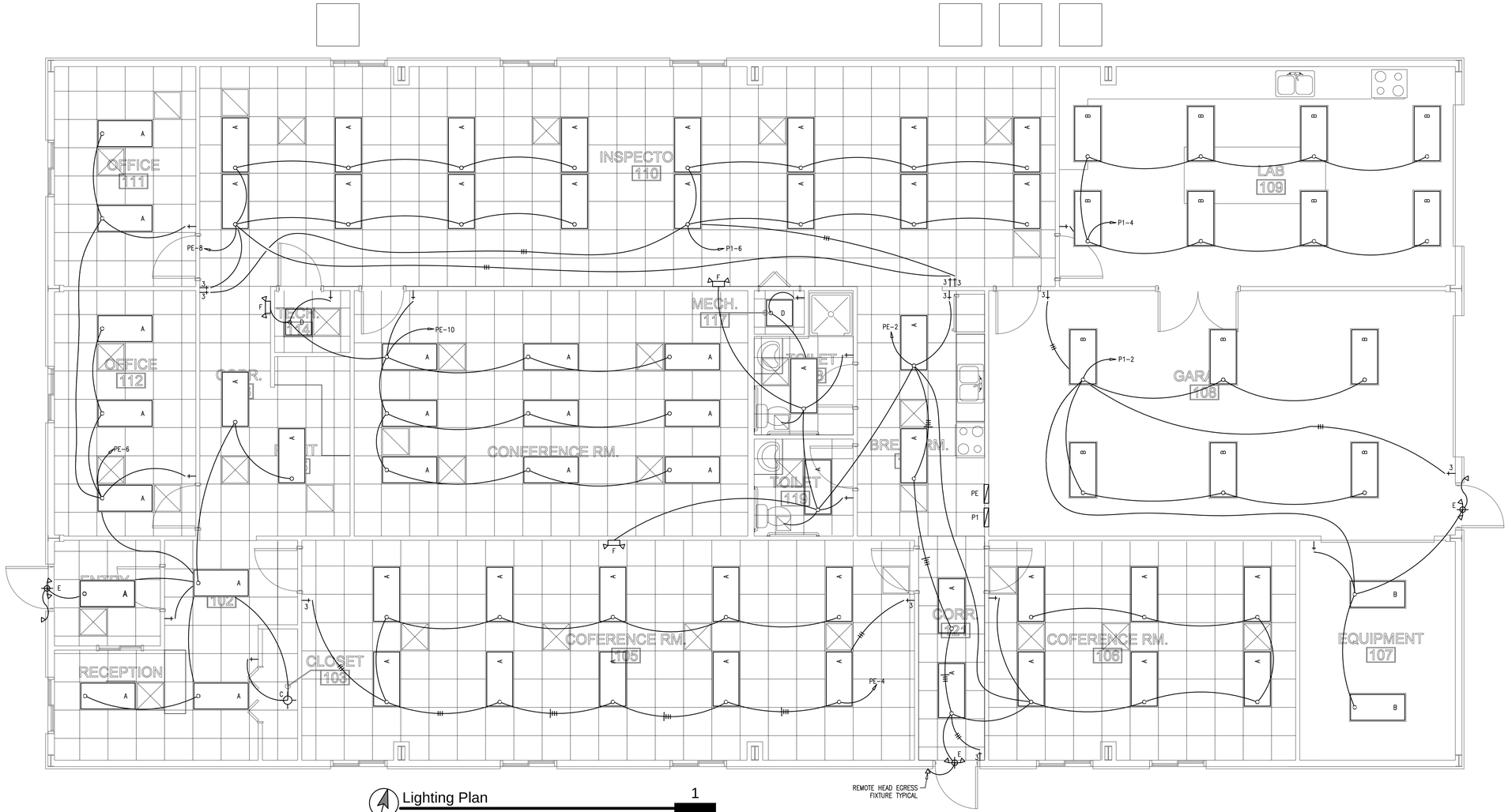
DATE
22 JUNE 2012
SHEET TITLE
Power Plan
JOB NO.
12-12
SHEET
E1

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER AND MODEL	TYPE	LAMPS #	LAMPS SIZE	MOUNTING	REMARKS
A	H.E. WILLIAMS 50G-S24-432-SA12125-EQCLIPS-EB4-UNV	FLUOR	4	32	RECESSED	1)
B	H.E. WILLIAMS 18-4-432-A-EB4-UNV	FLUOR	4	32	SURFACE	1)
C	LEVITON 9860	FLUOR	1	13	UNVERSAL	1)
D	H.E. WILLIAMS 50G-S22-417-SA12125-EQCLIPS-EB4-UNV	FLUOR	4	17	RECESSED	1)
E	H.E. WILLIAMS EXIT/EM/REMOTE-WHT-UNV	LED	2	6	UNIVERSAL	1) 2)
F	H.E. WILLIAMS EMER/MR16-WHT-UNV	LED	2	6	UNIVERSAL	1) 2)

1) OR APPROVED EQUAL.

2) REMOTE HEADS FOR EGRESS AS SHOWN.



Lighting Plan
Scale: 1/4" = 1'-0"
1
E2

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DATE
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SHEET TITLE
Lighting Plan

JOB NO.
12-12

SHEET
E2