

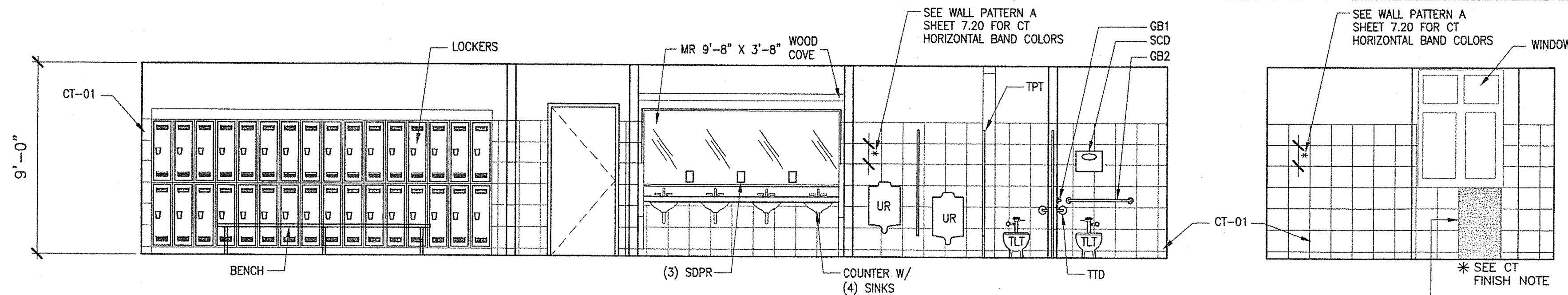
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Division: -

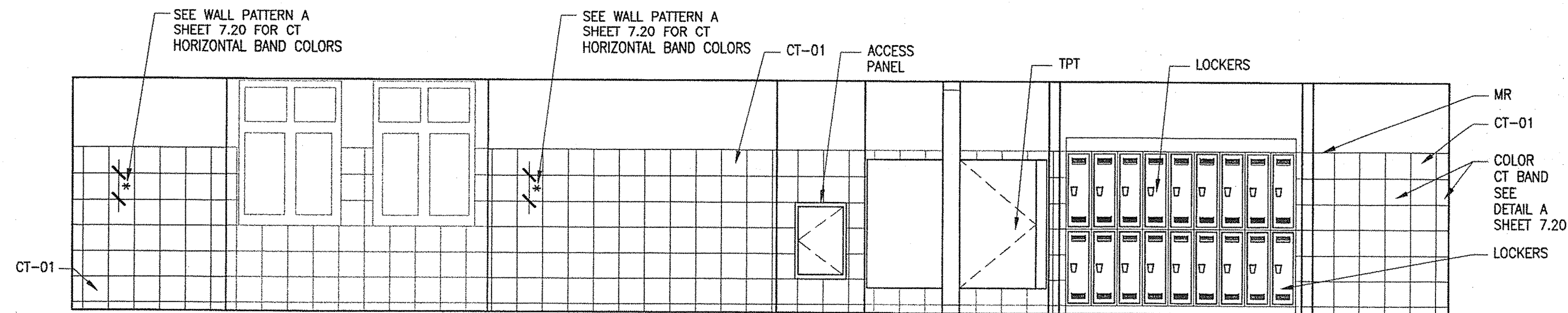
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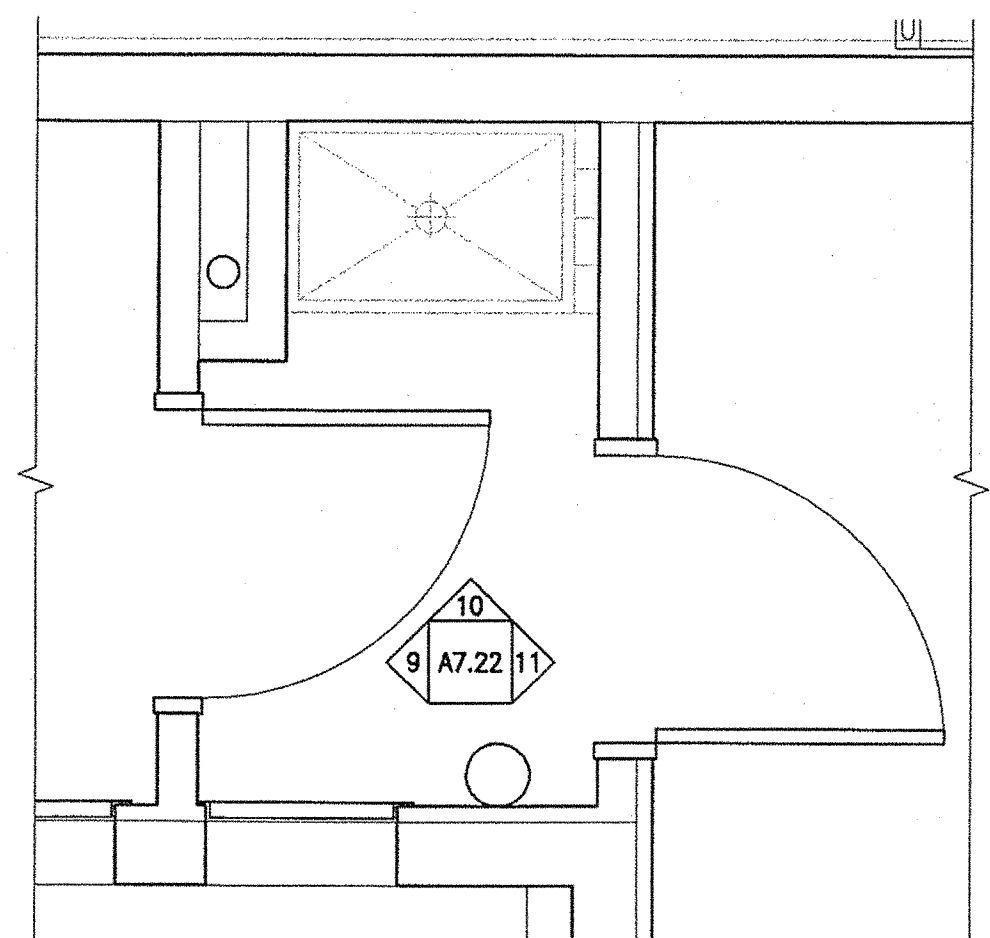
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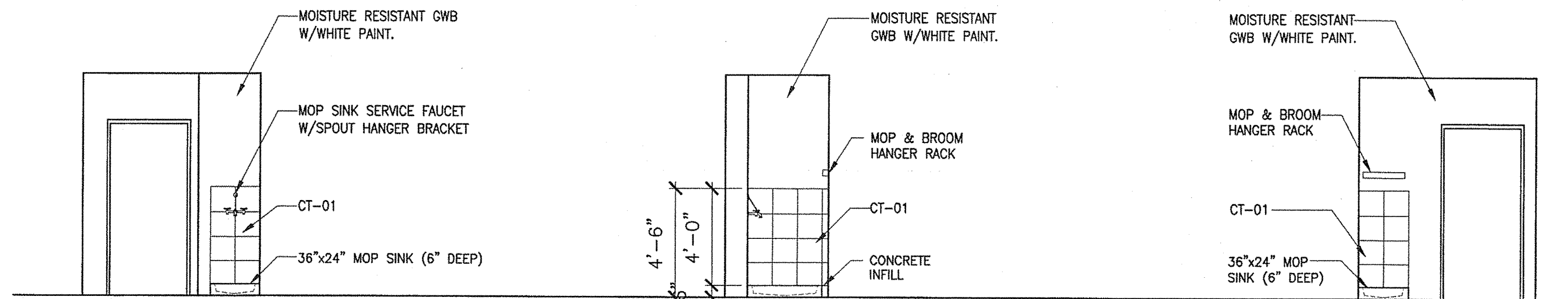
1 MEN TOILET / LOCKER 205-206
1/4"=1'-0"



3 MEN TOILET / LOCKER 205-206
1/4"=1'-0"



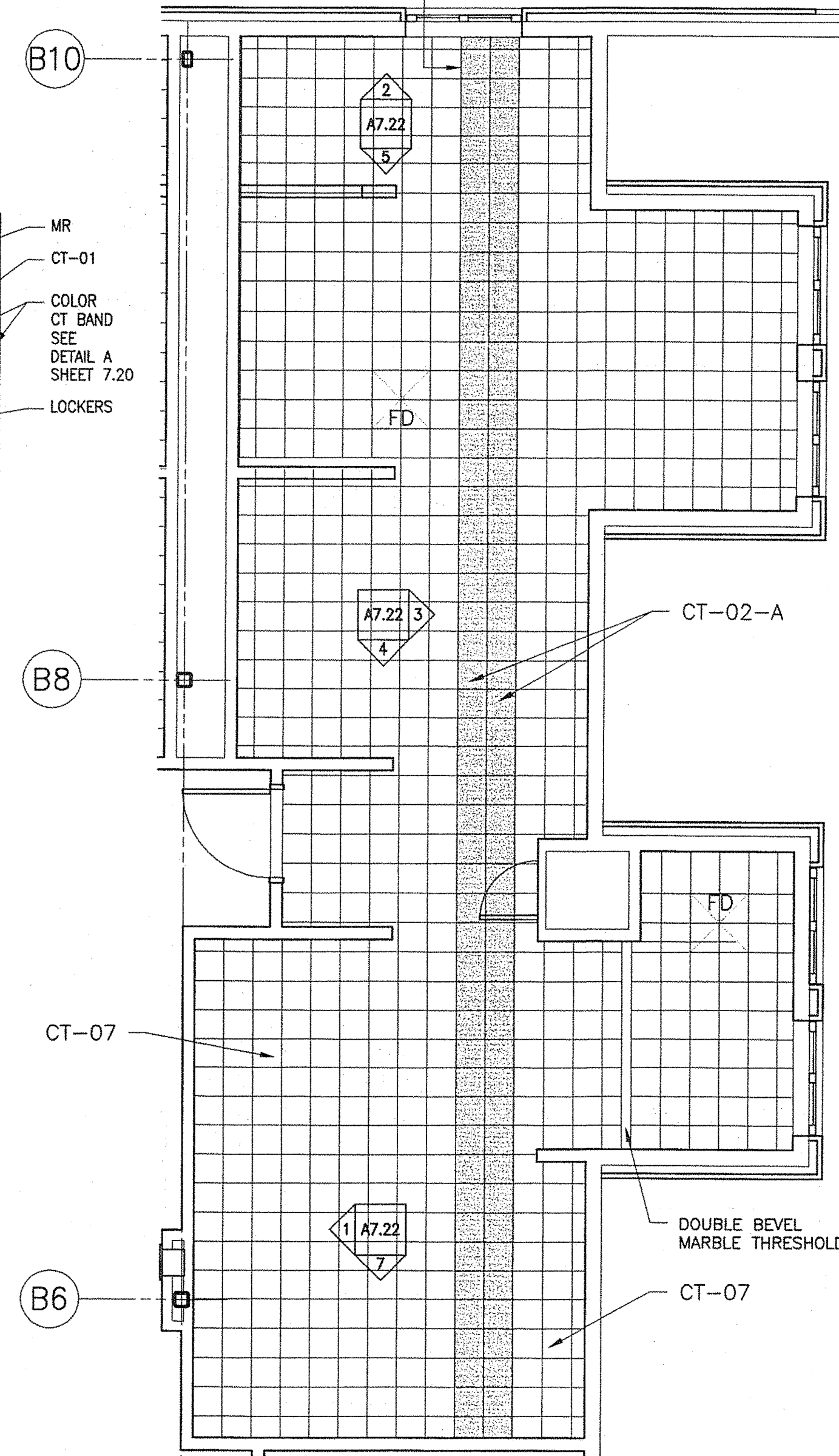
8 JANITOR CLOSET 02 (214)
1/4"=1'-0"
JANITOR CLOSET 01 (123) SIMILAR



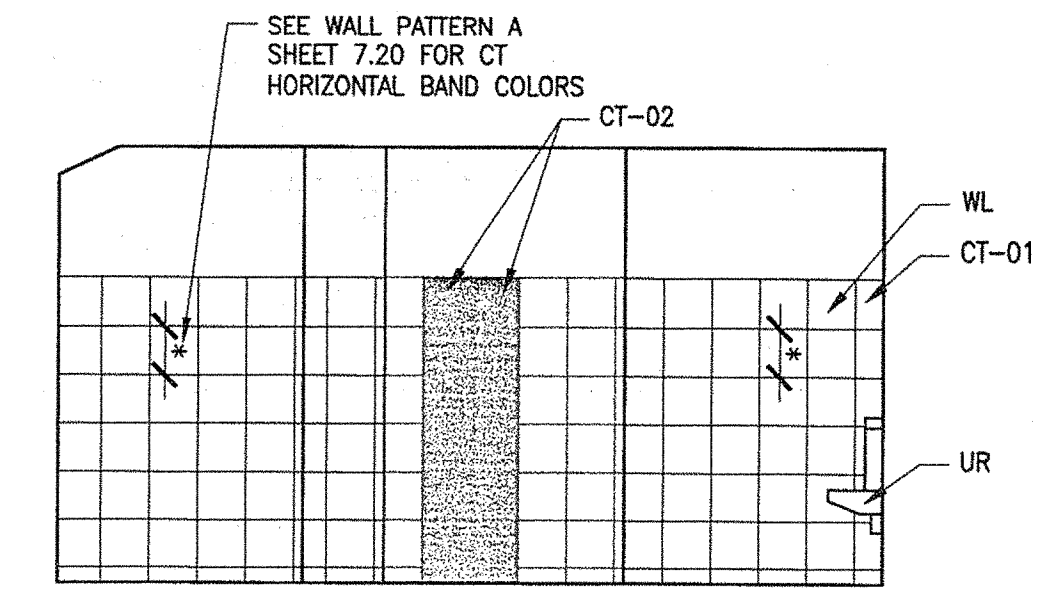
9 JANITOR CLOSET 02 (214)
1/4"=1'-0"
JANITOR CLOSET 01 (123) SIMILAR

10 JANITOR CLOSET 02 (214)
1/4"=1'-0"
JANITOR CLOSET 01 (123) SIMILAR

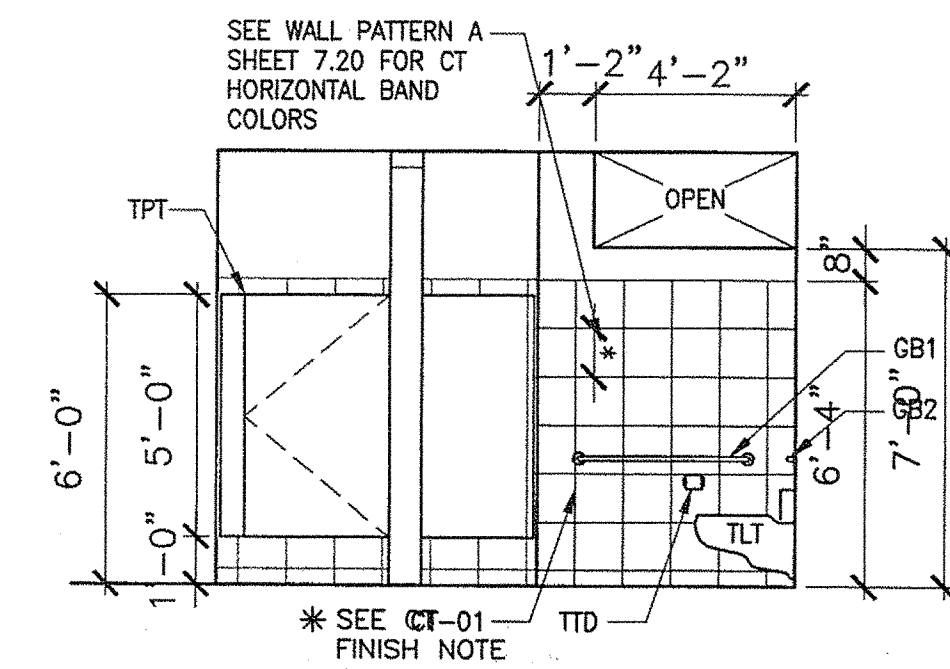
11 JANITOR CLOSET 02 (214)
1/4"=1'-0"
JANITOR CLOSET 01 (123) SIMILAR



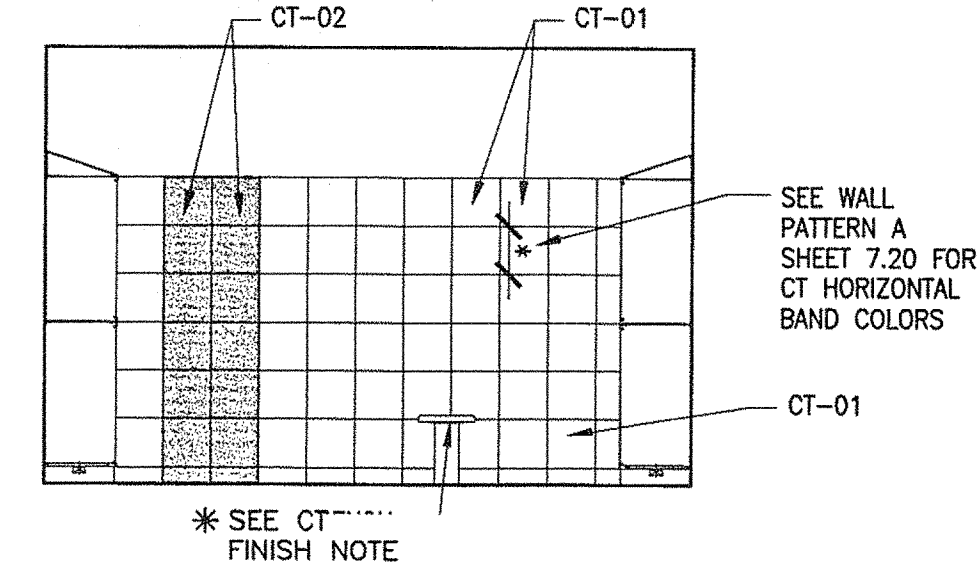
6 MEN TOILET / LOCKER 205-206
1/4"=1'-0"



4 MEN TOILET 205
1/4"=1'-0"



5 MEN TOILET 205
1/4"=1'-0"



7 MEN LOCKER 206
1/4"=1'-0"

* CT FINISH NOTE:
ALIGN CERAMIC TILE BAND ON WALL
WITH CERAMIC TILE BAND ON FLOOR.

NOTE:
REFER TO A7.21 FOR ADA ACCESSIBLE
FIXTURE HEIGHTS.

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Allied Project No: 07010

Cad File: A7.22.dwg

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE
FED PIN NO:
PIN NO: 16123.50



SIGNATURE
TERRY P. ROOKARD
ARCH. LIN. NUMBER
3360
DATE
MAY 1, 2009

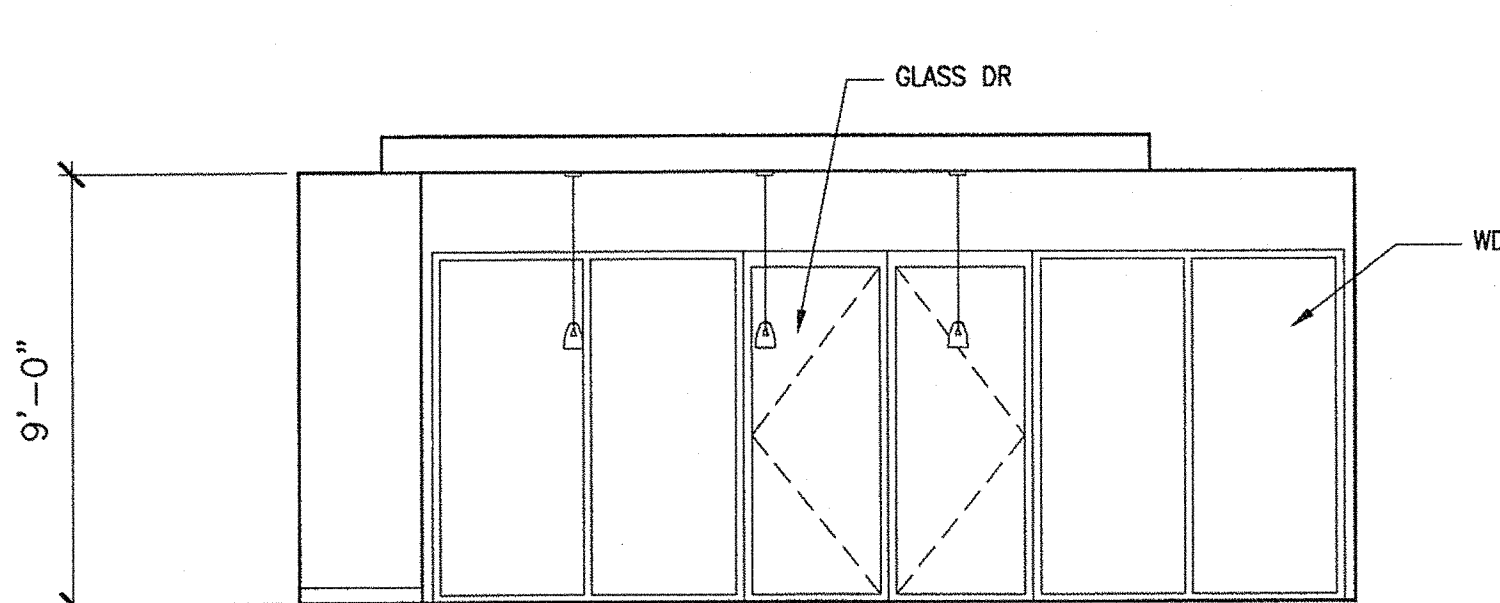
PROJECT INFORMATION

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
INTERIOR ELEVATIONS III

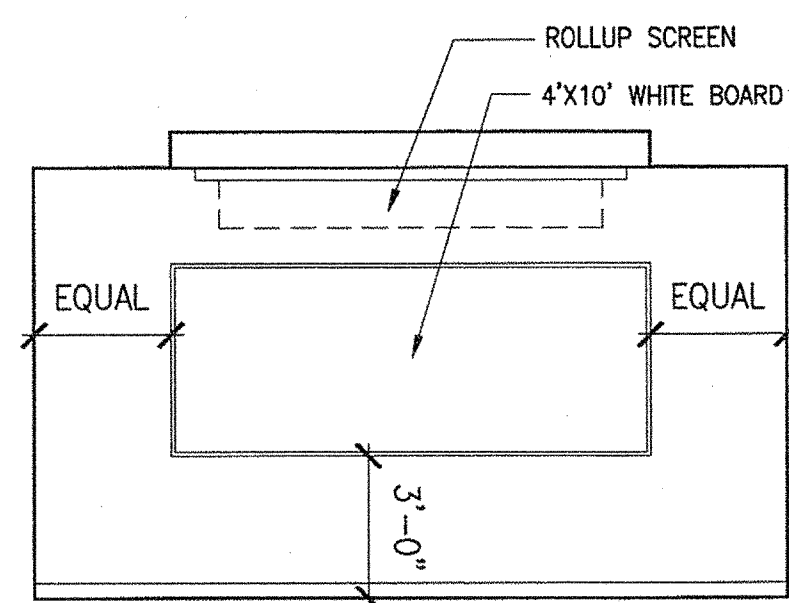
SHEET NUMBER A

A7.22

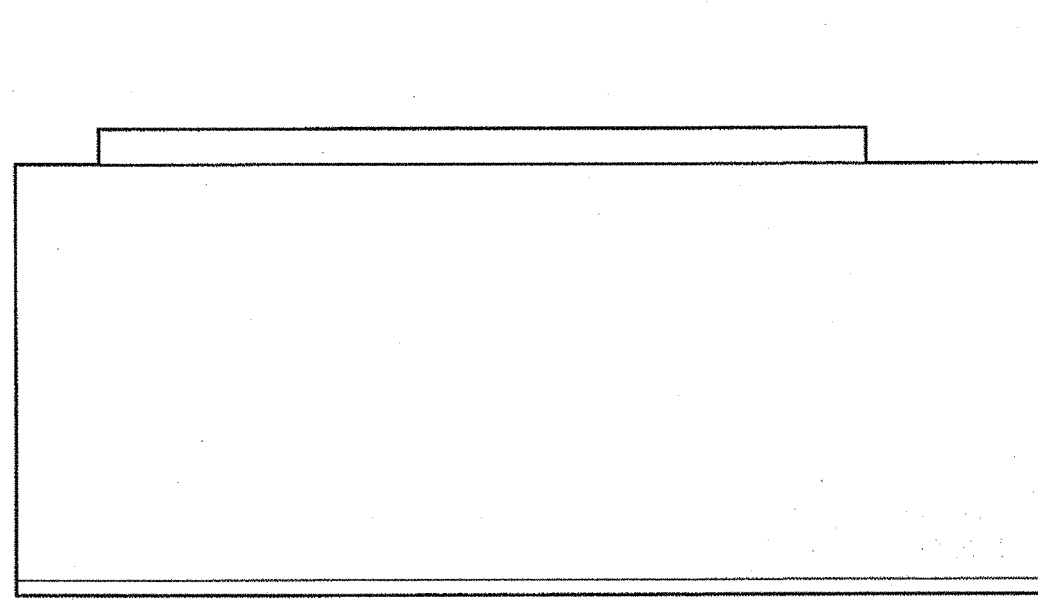
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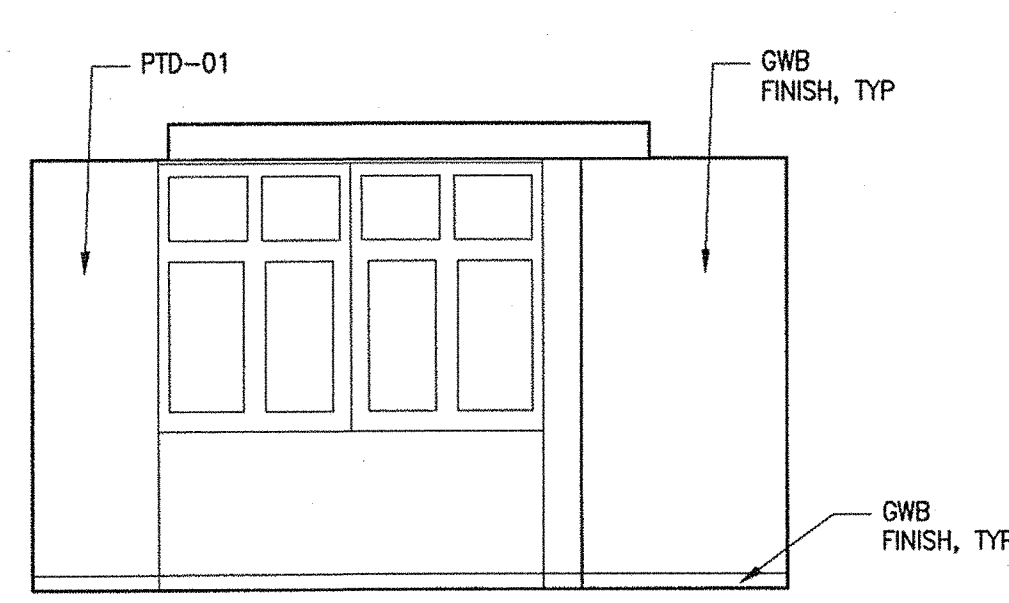
1 CONFERENCE ROOM 109
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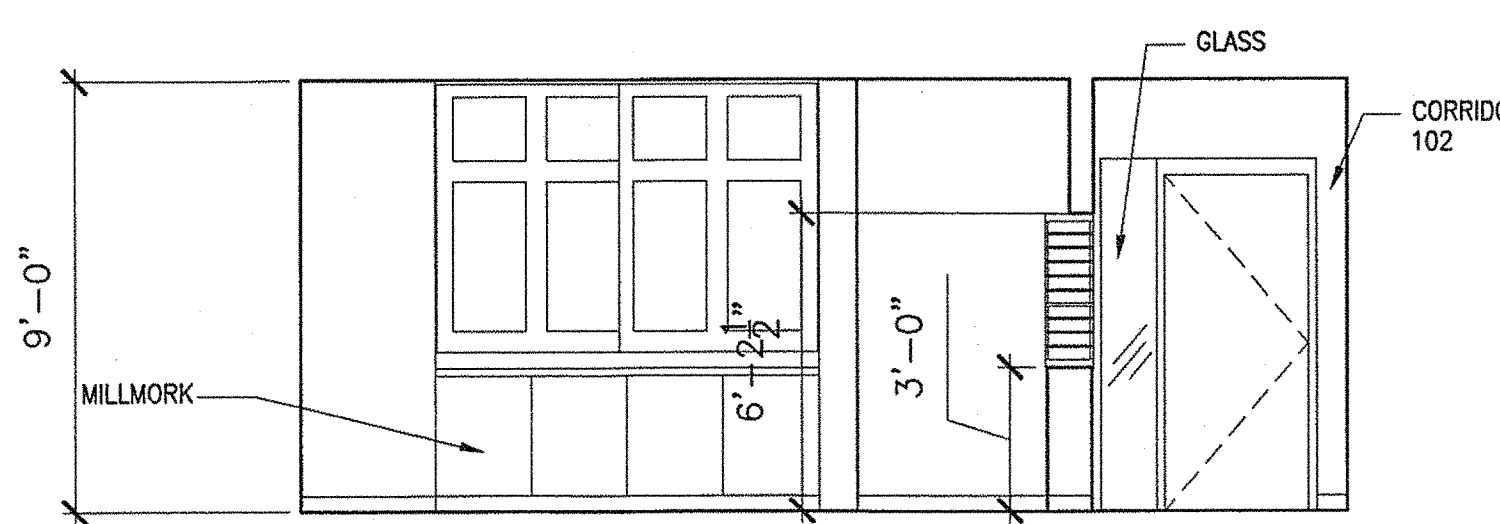
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1/4"=1'-0"



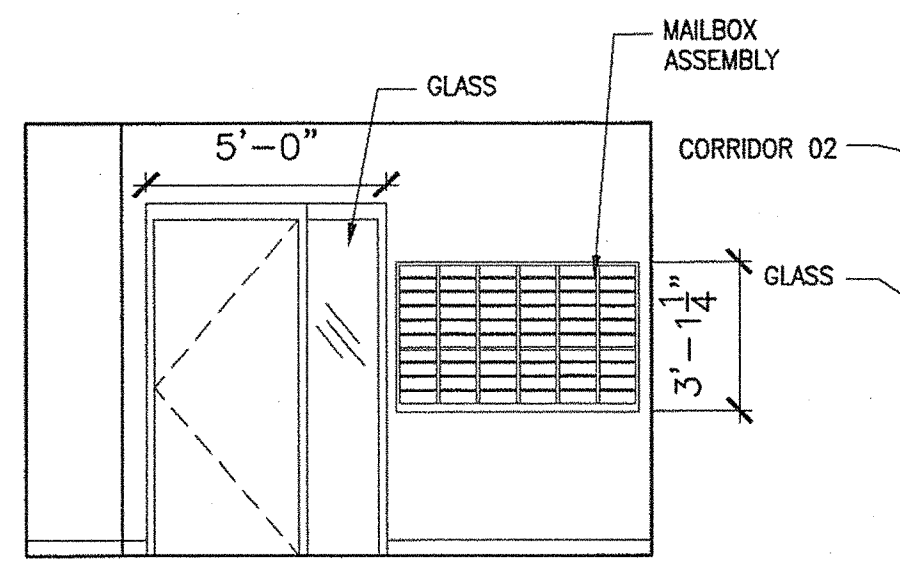
3 CONFERENCE ROOM 109
1/4"=1'-0"



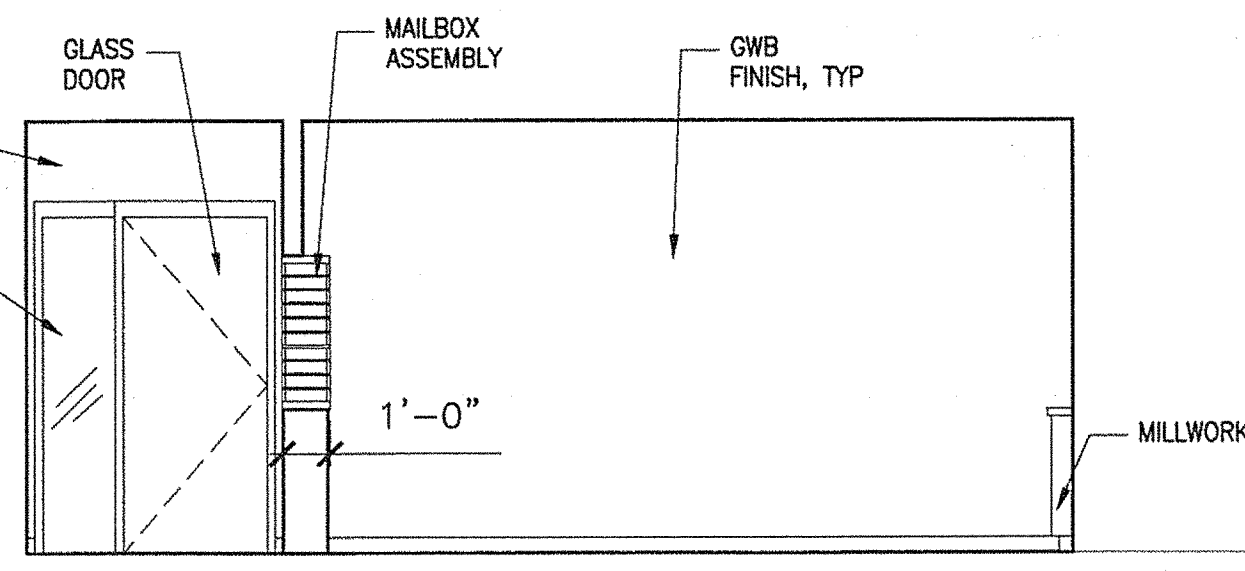
4 CONFERENCE ROOM 109
1/4"=1'-0"



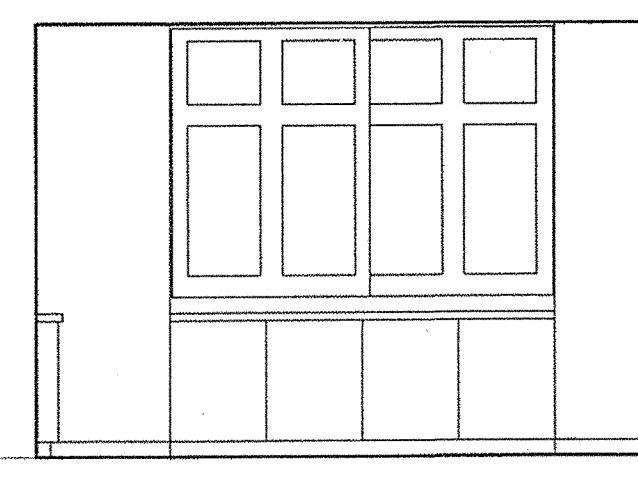
5 DISPATCH 117
1/4"=1'-0"



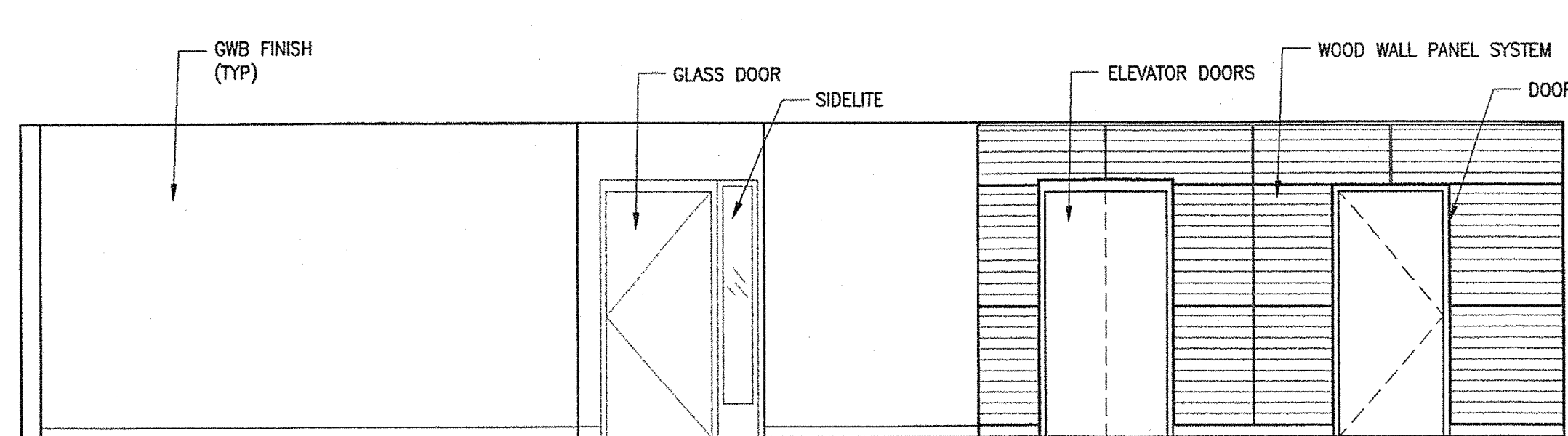
6 DISPATCH 117
1/4"=1'-0"



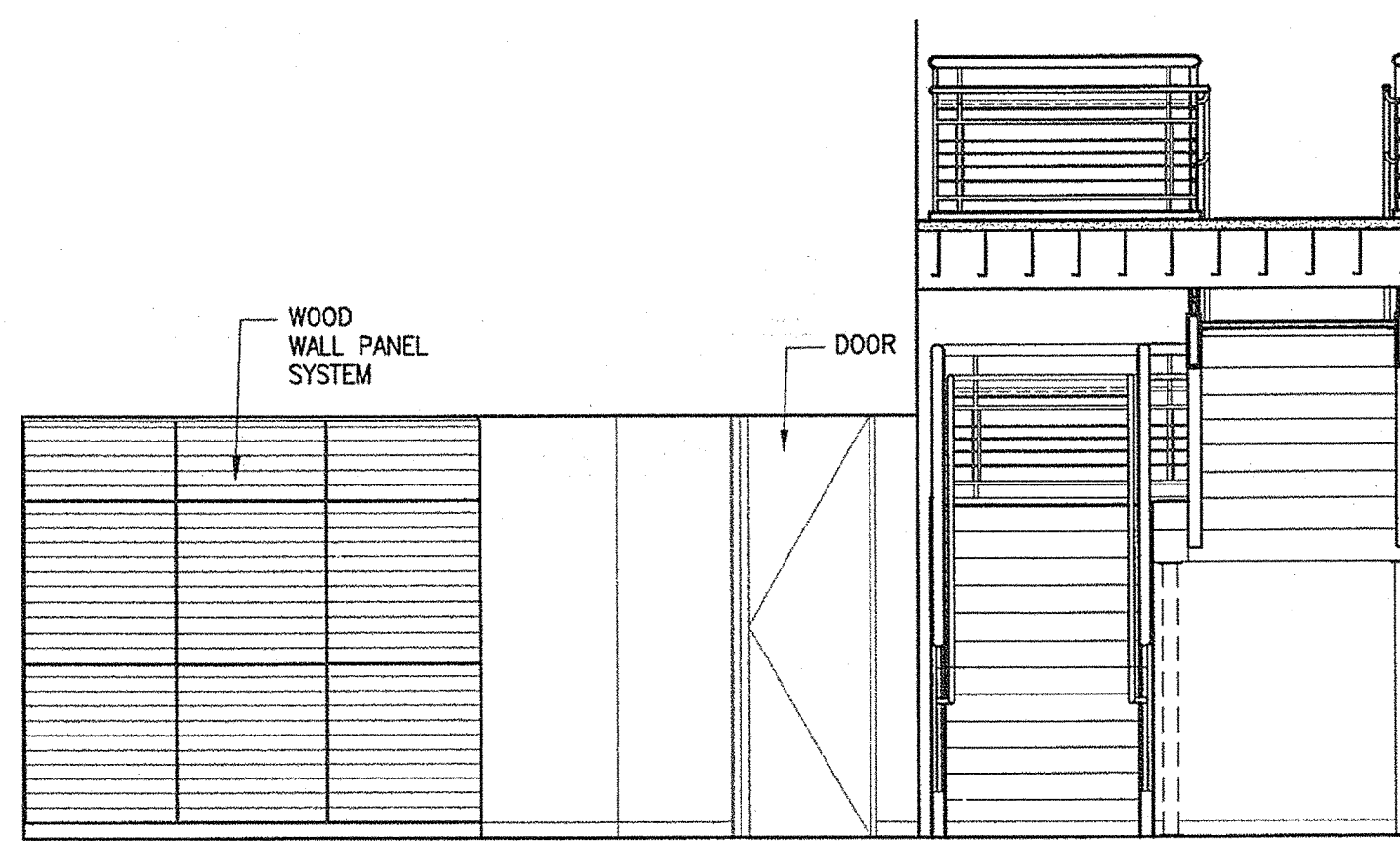
7 DISPATCH 117
1/4"=1'-0"



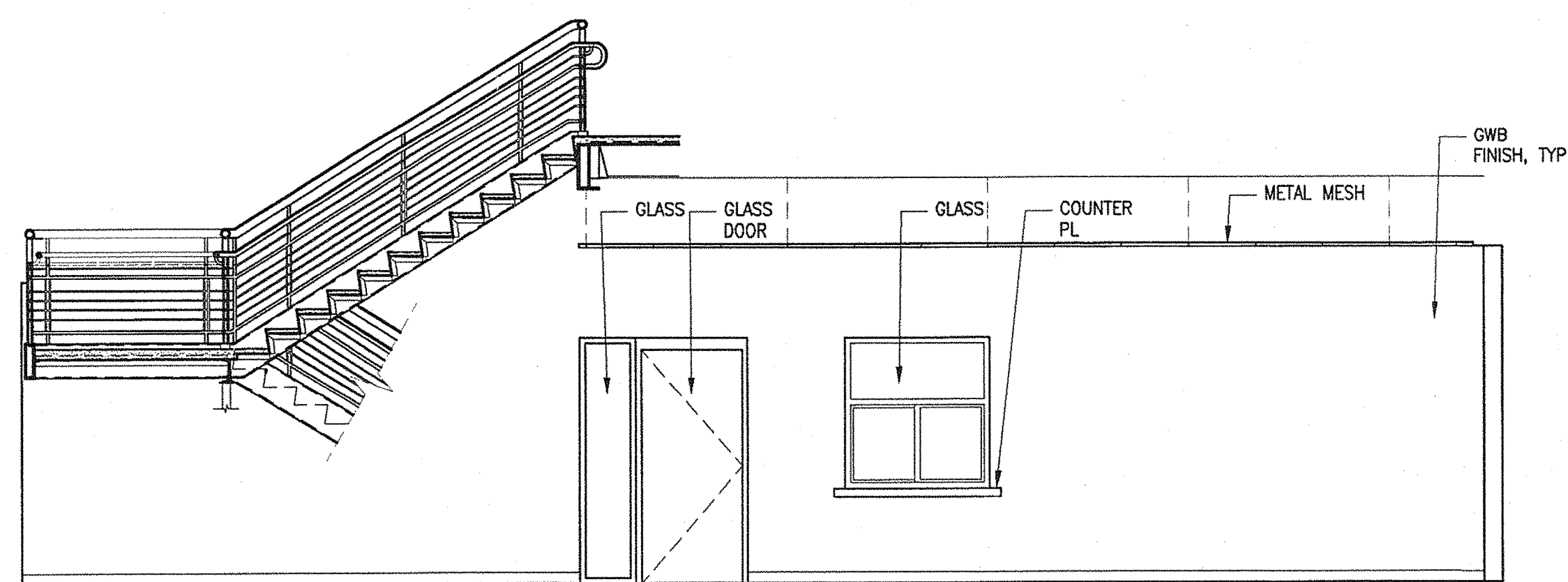
8 DISPATCH 117
1/4"=1'-0"



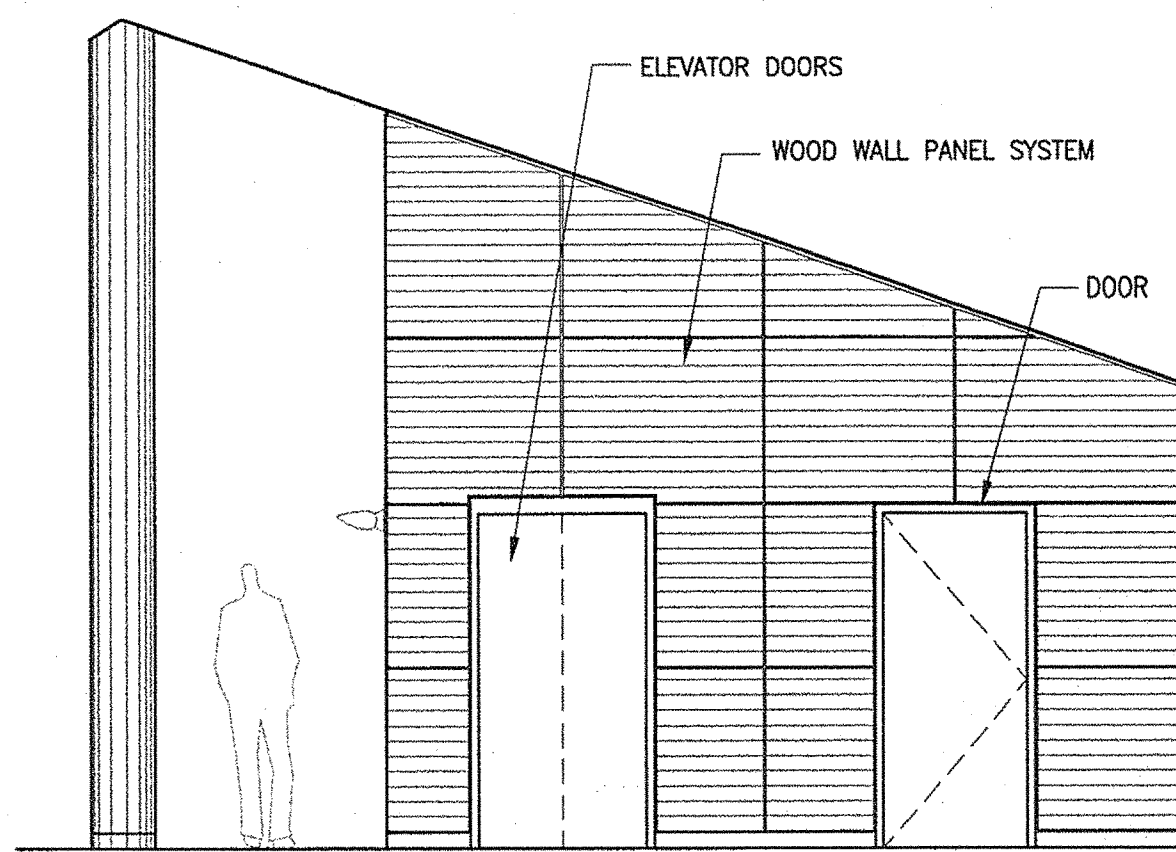
9 LOBBY 101
1/4"=1'-0"



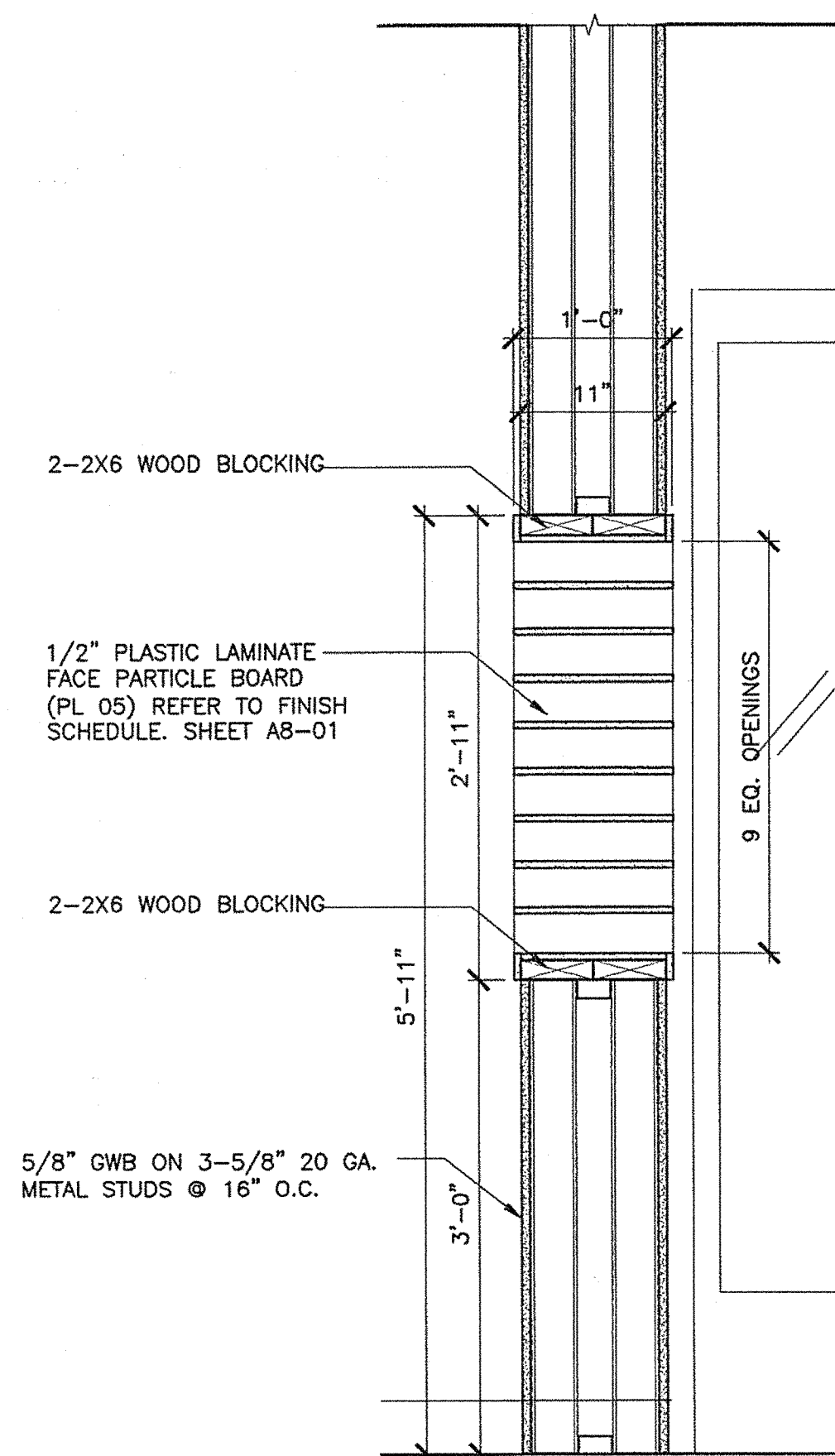
10 LOBBY 101
1/4"=1'-0"



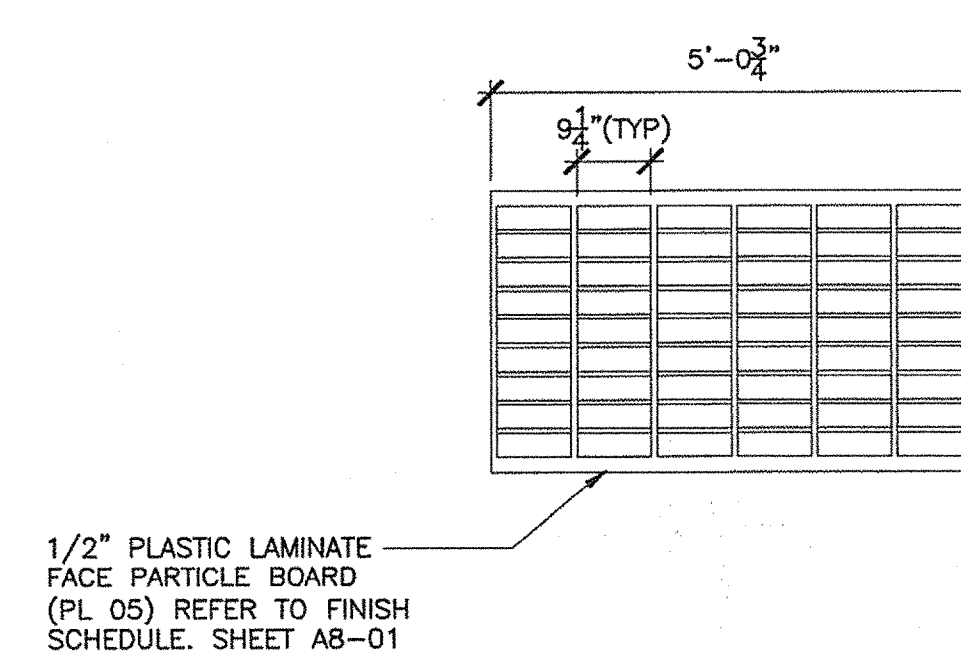
11 LOBBY 101
1/4"=1'-0"



12 CORRIDOR 07 (215)
1/4"=1'-0"



13 MILLWORK DISPATCH 117 SEC
1"=1'-0"



14 MILLWORK DISPATCH 117 ELEV
1/2"=1'-0"

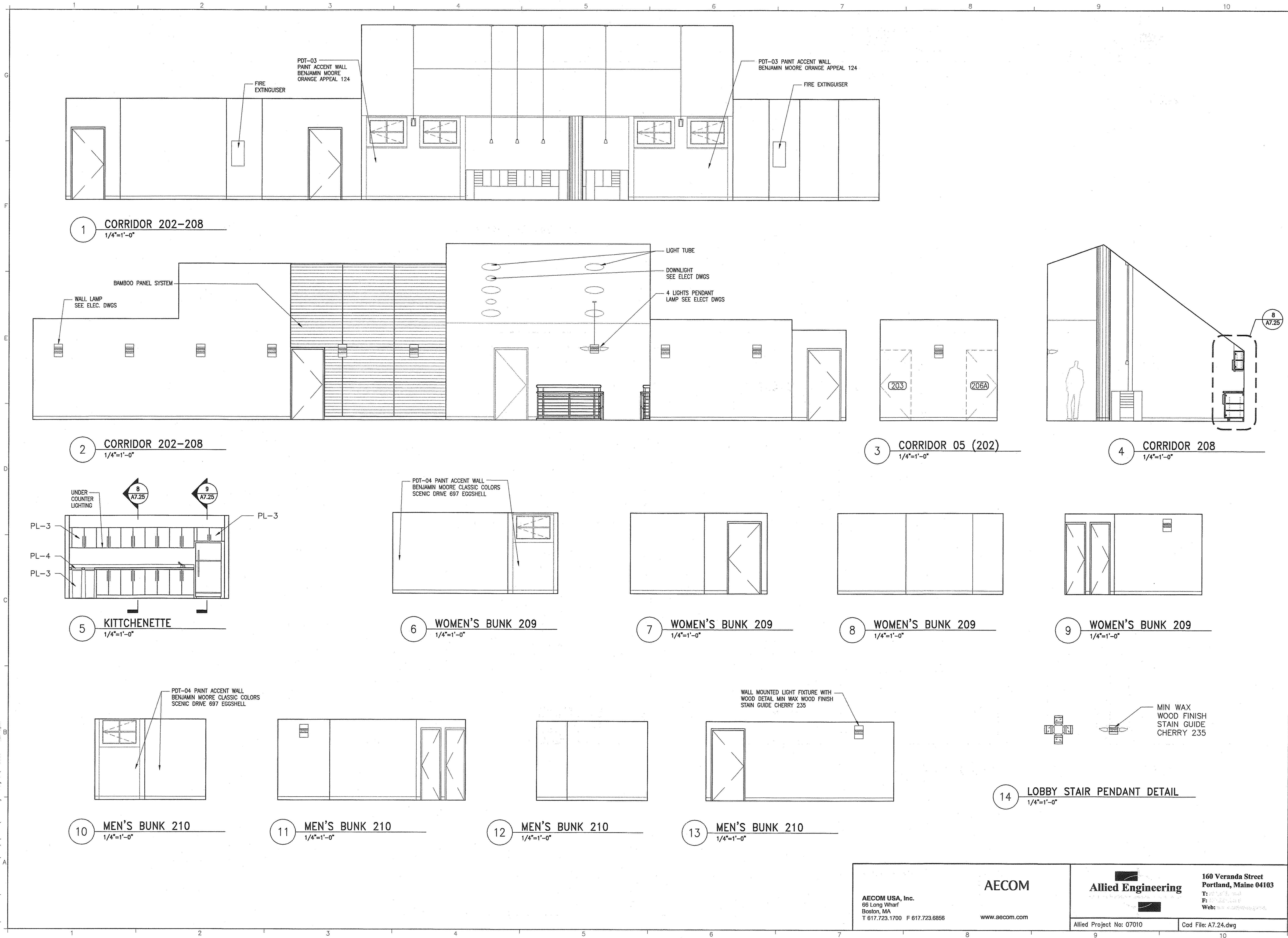
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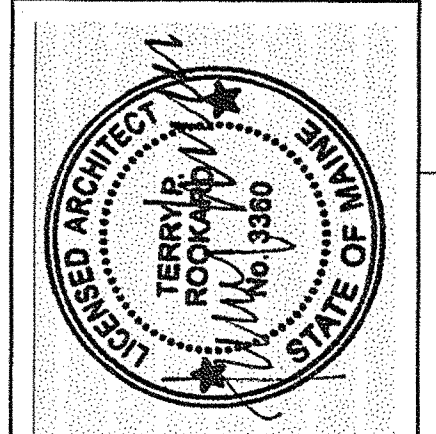
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Filename: -

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	DATE	
	FED PIN NO:	PIN NO: 16123.50



SIGNATURE TERRY P. ROOKARD	DATE MAY 1, 2009
ARCH. LIN. NUMBER 3360	

PROJECT INFORMATION	
PROGRAM	WFF
PROJECT MANAGER	TV
DESIGNER	ALLIED ENGINEERING
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

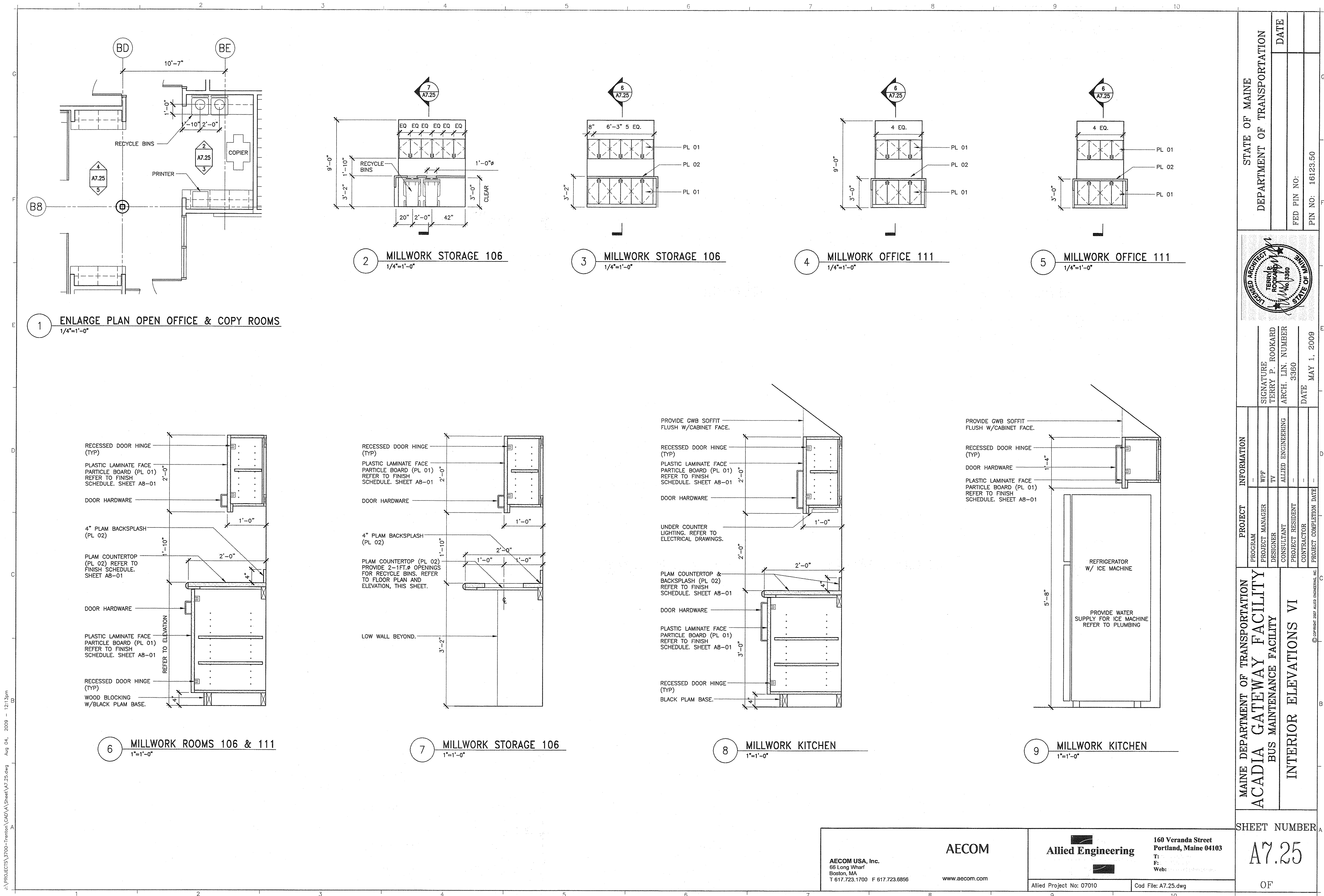
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY	INTERIOR ELEVATIONS V
---	-----------------------

SHEET NUMBER A

A7.24

OF

AECOM		160 Veranda Street Portland, Maine 04103	
AECOM USA, Inc. 66 Long Wharf Boston, MA T 617.723.1700 F 617.723.6856		T: 617.723.1700 F: 617.723.6856 Web: www.aecom.com	
Allied Project No: 07010		Cad File: A7.24.dwg	



SHEET NUMBER		STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
A7.25		FED PIN NO:		PIN NO: 16123.50	
OF					
		SIGNATURE TERRY P. ROOKARD		DATE MAY 1, 2009	
		PROJECT INFORMATION			
		PROGRAM		-	
		PROJECT MANAGER		WFF	
		DESIGNER		TV	
		CONSULTANT		ALLIED ENGINEERING	
		PROJECT RESIDENT		-	
		CONTRACTOR		-	
		PROJECT COMPLETION DATE		-	
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY INTERIOR ELEVATIONS VI		PROJECT COMPLETION DATE		-	
SHEET NUMBER		© COPYRIGHT 2007 ALLIED ENGINEERING, INC.		PROJECT COMPLETION DATE	
A7.25		C		D	
OF		B		F	

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Allied Project No: 07010Cad File: A7.25.dwg

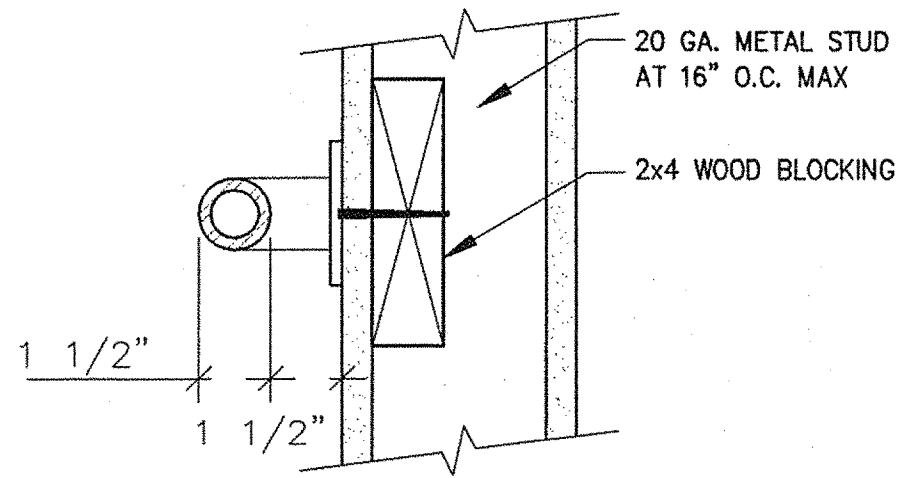
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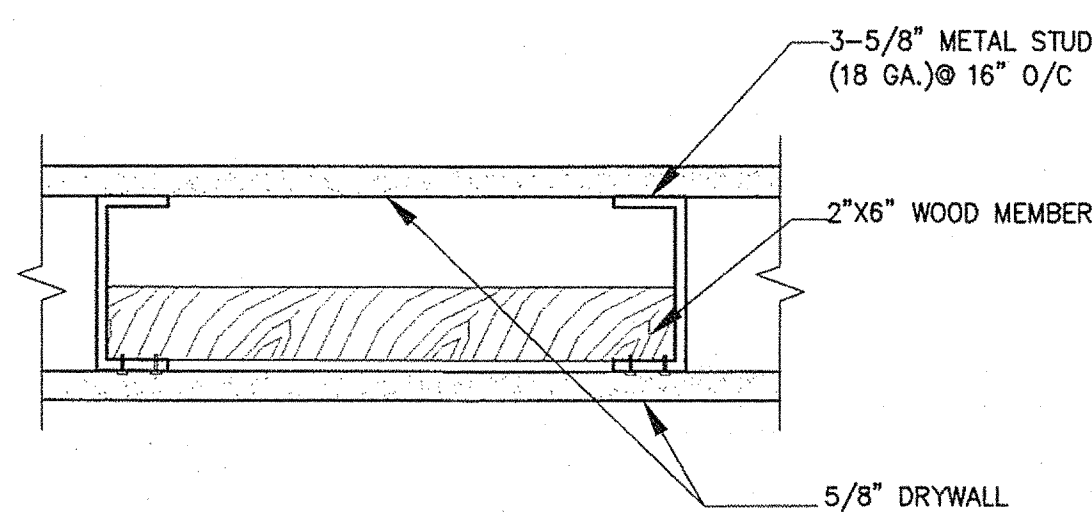
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GRAB BAR NOTES:

1. SHALL BE DESIGNED AND SUPPORTED AS TO WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT, DOWNWARD OR HORIZONTALLY.
2. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
3. ALL EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.
4. PROVIDE 2x6 BLOCKING INSIDE PARTITIONS AS REQUIRED FOR ATTACHMENT OF ALL GRAB BARS (SEE ELEVATIONS FOR HEIGHTS).
5. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED FIRE RETARDANT.

1 GRAB BAR DETAIL
3\"/>



BACKING NOTES

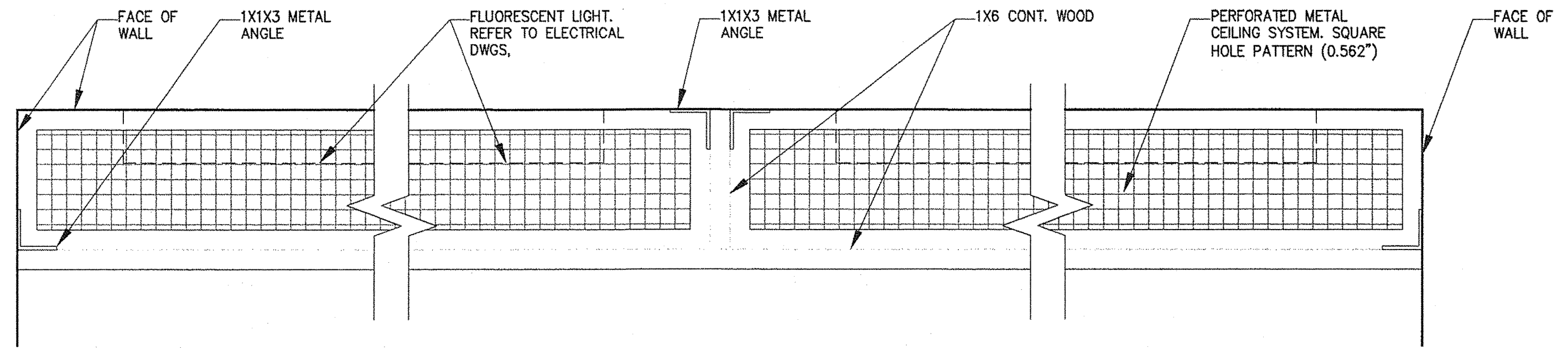
SUPPORT FOR PLUMBING FIXTURES & CABINETS: STUD WALL SUPPORTING PLUMBING FIXTURES & CABINETS SHALL BE CONSTRUCTED USING STEEL STUDS OF NOT LESS THAN 20ga W/ A MIN. EFFECTIVE MOMENT OF INERTIA EQUAL TO 0.864 in⁴. WALL SHALL BE CONNECTED TOP & BOTTOM TO PREVENT END ROTATION OR DISPLACEMENT. A HORIZ MEMBER SHALL BE SECURELY FASTENED TO NOT LESS THAN 2 STUDS SHALL BE INSTALLED FOR THE ATTACHMENT OF WALL HUNG FIXTURES.

SUCH STUDS SHALL BE RIGIDLY CONNECTED TOP AND BOTTOM TO PREVENT SIGNIFICANT END ROTATION OR DISPLACEMENT.

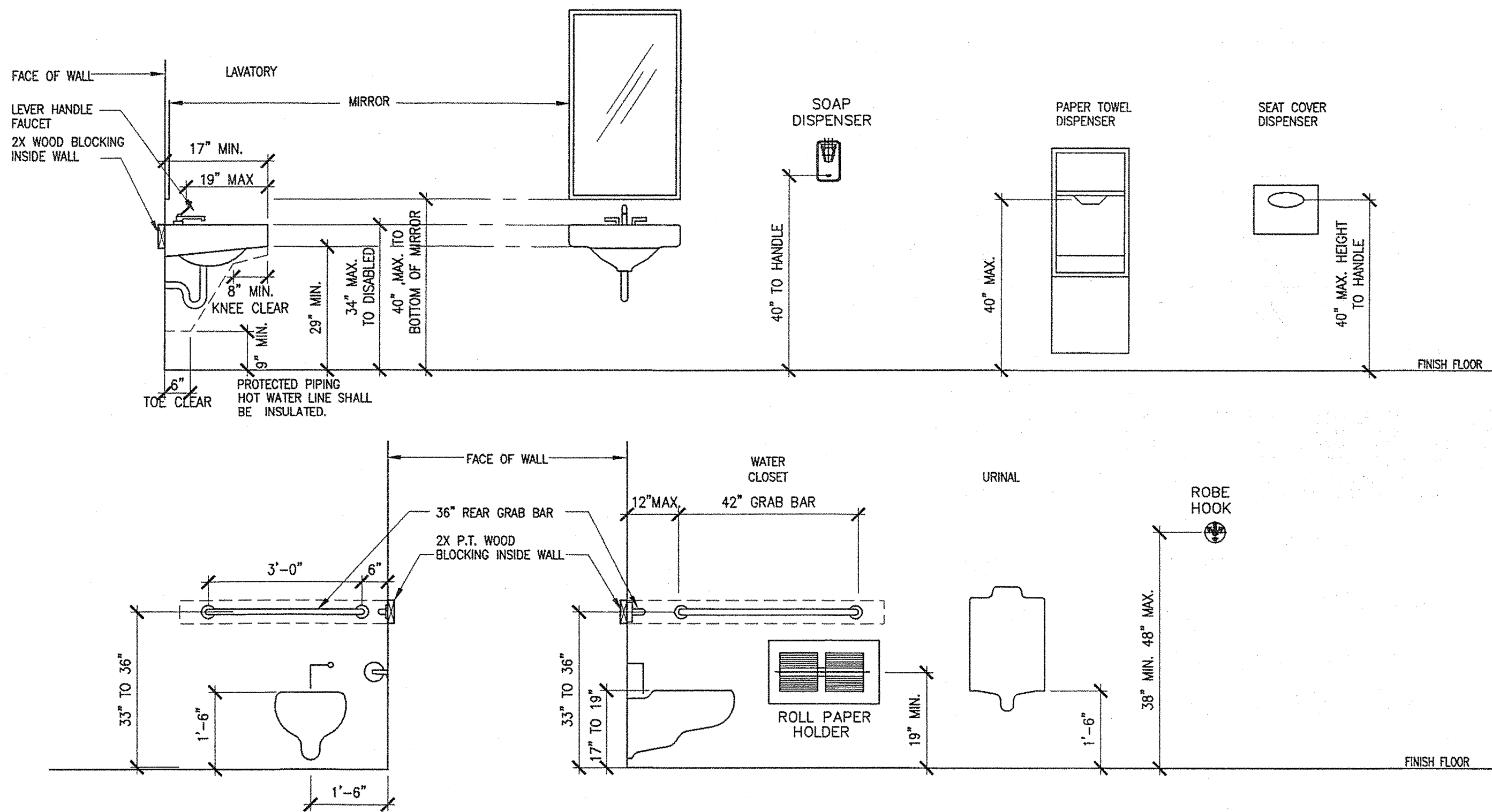
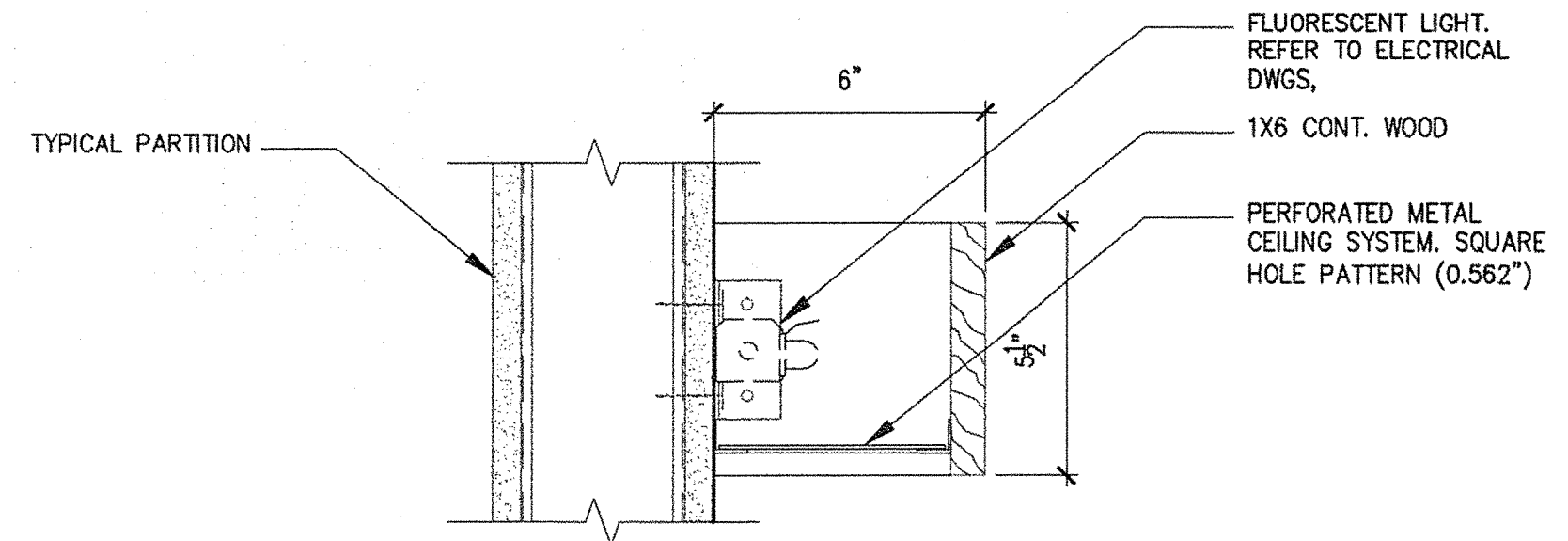
BACKING FOR TOILET PARTITIONS, GRAB BARS, AND ACCESSORIES: PROVIDE 2x6 BLOCKING INSIDE PARTITIONS AS REQUIRED FOR ATTACHMENT OF ALL WALL HUNG ITEMS, (SEE ELEVATIONS FOR HEIGHTS).

ALL WOOD BLOCKING SHALL BE PRESSURE TREATED FIRE RETARDANT.

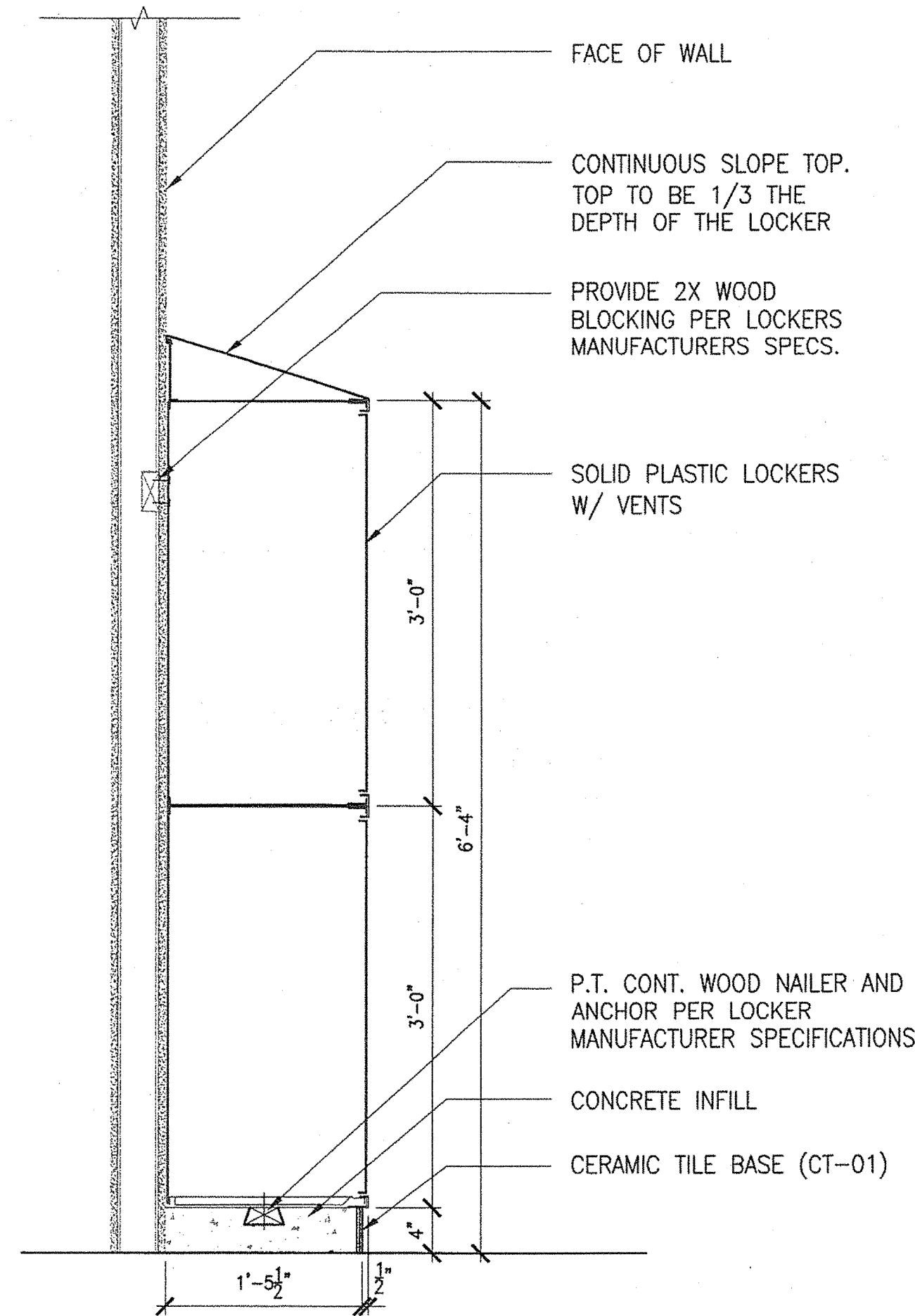
2 FIXTURE/CABINET BACKING DETAIL
3\"/>



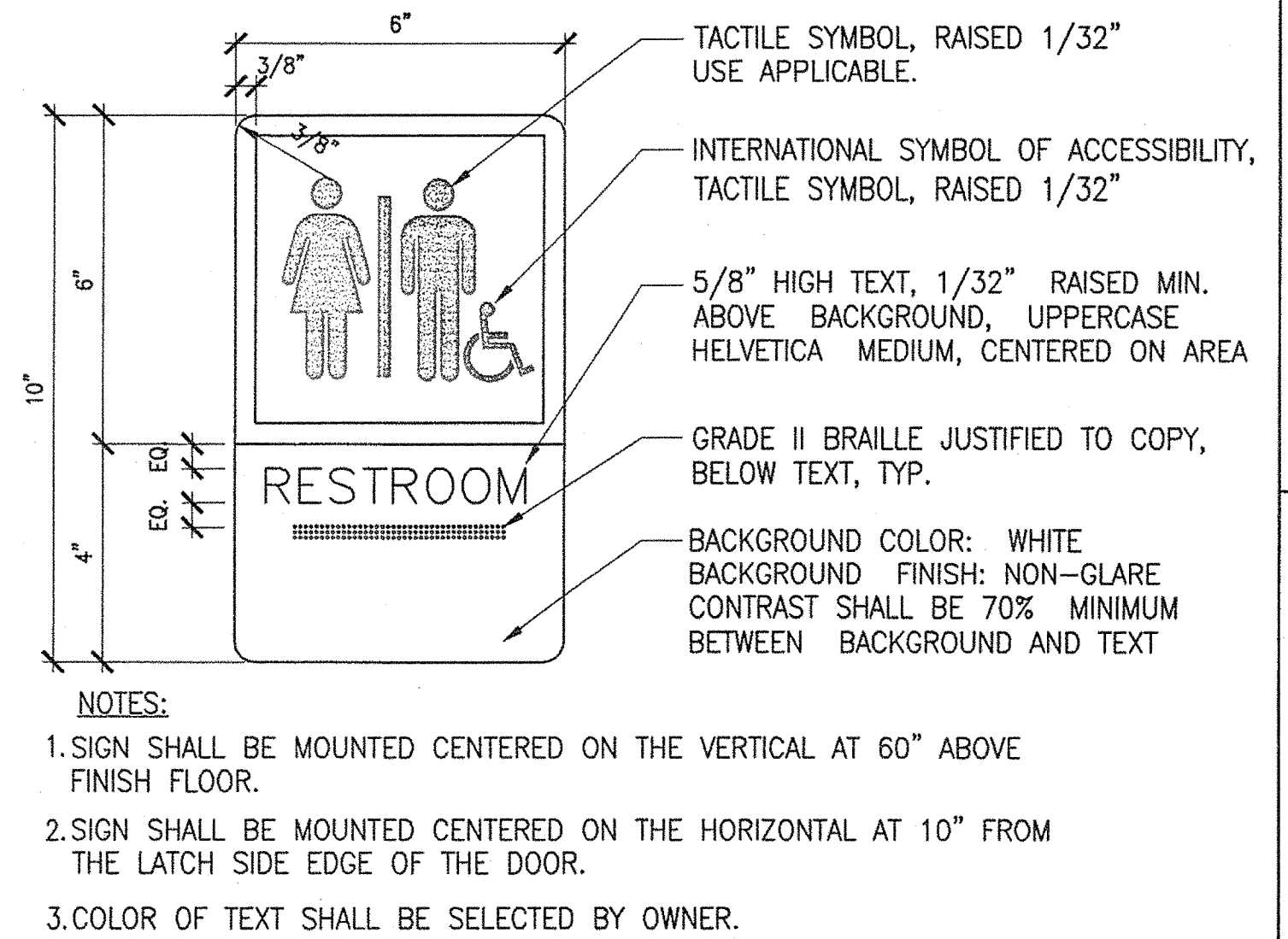
3 WOOD COVE DETAIL
3\"/>



4 TYPICAL ADA ACCESSIBLE FIXTURES/ACCESORIES HEIGHTS
1/2\"/>

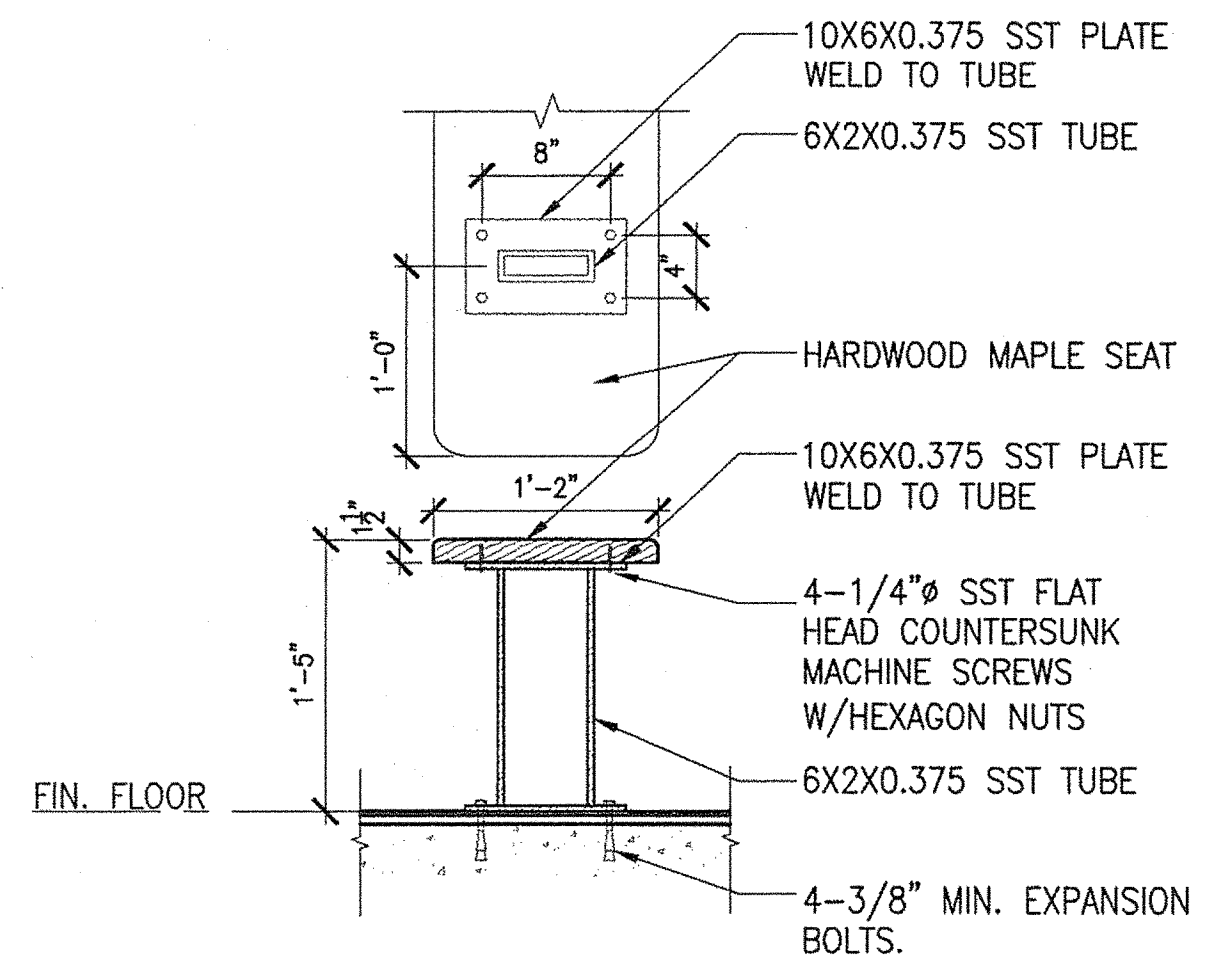


5 LOCKERS DETAIL
1\"/>



- NOTES:**
1. SIGN SHALL BE MOUNTED CENTERED ON THE VERTICAL AT 60\"/>
 2. SIGN SHALL BE MOUNTED CENTERED ON THE HORIZONTAL AT 10\"/>
 3. COLOR OF TEXT SHALL BE SELECTED BY OWNER.

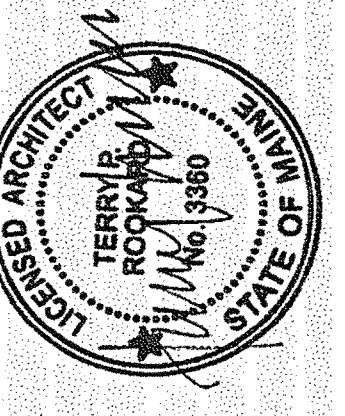
6 RESTROOM ADA SIGN
NTS



7 BENCH DETAIL
1\"/>

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE
FED PIN NO:
PIN NO: 16123.50



SIGNATURE
TERRY P. ROOKARD
ARCH. LIN. NUMBER
3360
DATE
MAY 1, 2009

PROJECT INFORMATION	
PROGRAM	WPF
PROJECT MANAGER	TV
DESIGNER	ALLIED ENGINEERING
CONSULTANT	PROJECT RESIDENT
CONTRACTOR	PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
INTERIOR ELEVATIONS VII

SHEET NUMBER A

A7.26

OF

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Allied Project No: 07010

Cad File: A7.26.dwg

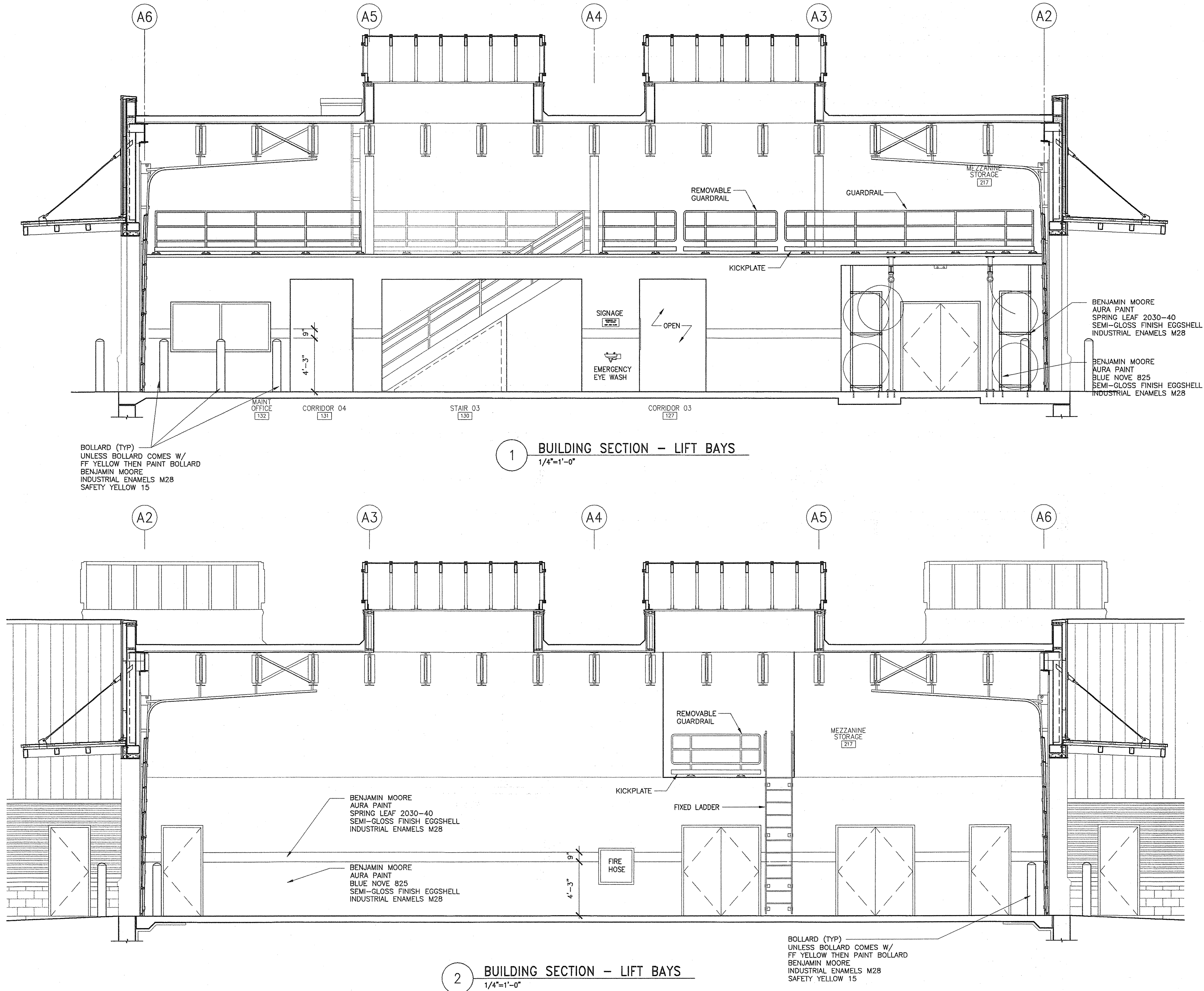
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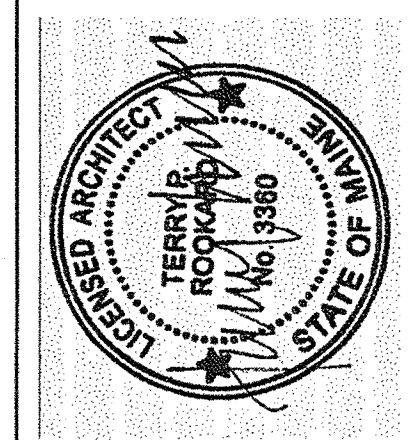
Date: -

Filename: -

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STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
SIGNATURE	DATE
TERRY P. ROOKARD	
FED PIN NO:	PIN NO:
	16123.50



SIGNATURE	DATE
TERRY P. ROOKARD	MAY 1, 2009
ARCH. LIN. NUMBER	
3360	

PROJECT INFORMATION	
PROGRAM	-
PROJECT MANAGER	WPF
DESIGNER	TV
CONSULTANT	ALLIED ENGINEERING
PROJECT RESIDENT	-
CONTRACTOR	-
PROJECT COMPLETION DATE	-

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
INTERIOR ELEVATIONS VIII

SHEET NUMBER A

A7.27
OF

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Portland, Maine 04103
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F:
Web:
Allied Project No: 07010
Cad File: A7.27.dwg

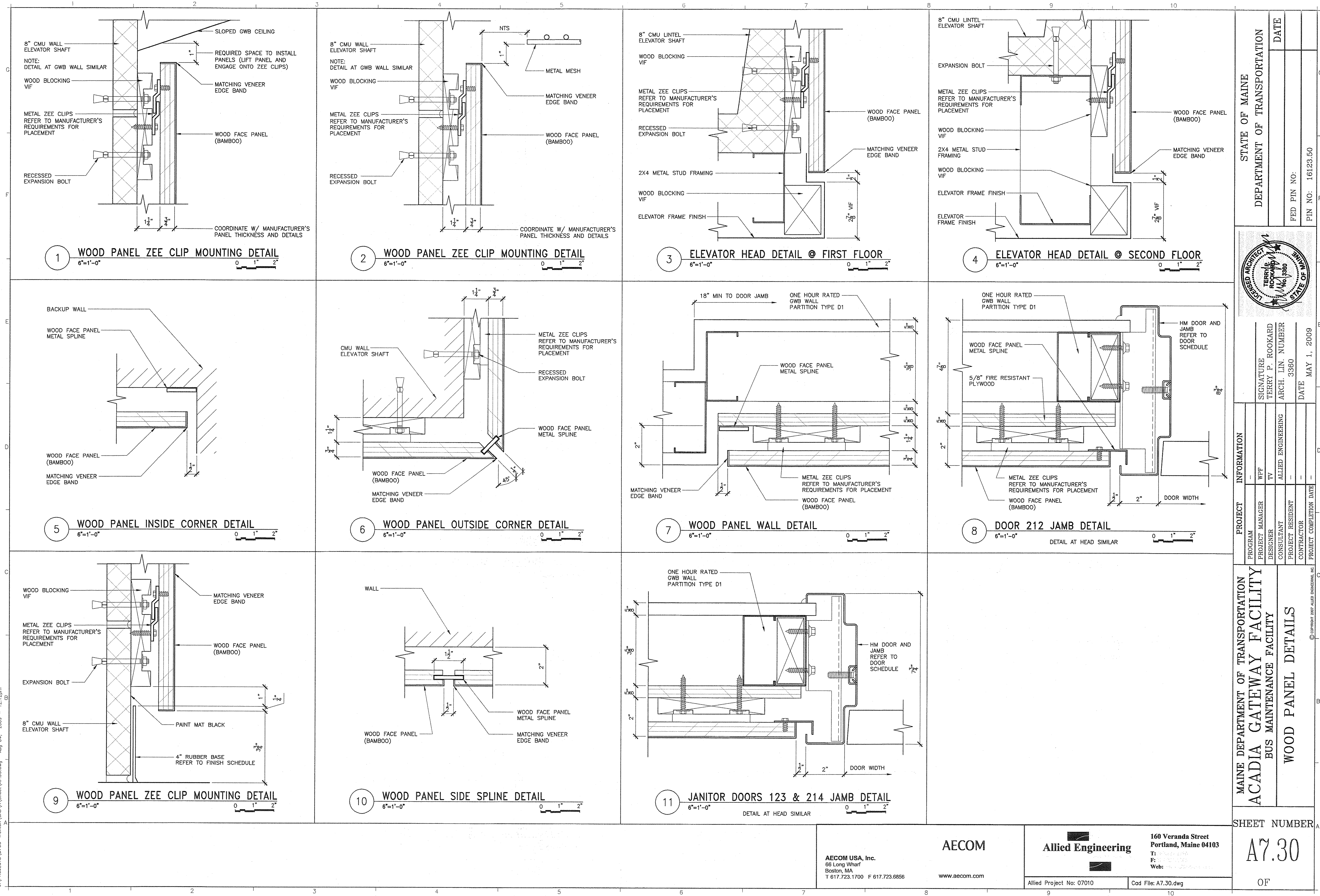
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Filename: -

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
FED PIN NO:		PIN NO: 16123.50	
<div>MAINE ARCHITECT TERRY P. ROOKARD No. 3360 STATE OF</div>			
PROJECT INFORMATION		SIGNATURE TERRY P. ROOKARD ARCH. LIN. NUMBER 3360 DATE MAY 1, 2009	
PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT
WPF	TV	ALLIED ENGINEERING	-
PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE	-
-	-	-	-

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
WOOD PANEL DETAILS

SHEET NUMBER
A7.30
OF

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F: 207.754.6101
Web: www.alliedeng.com
Allied Project No: 07010
Cad File: A7.30.dwg

FINISH SCHEDULE

ROOM NO	ROOM NAME	FLOOR		BASE		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING			NOTES
		FINISH	COLOR	FINISH	COLOR	FINISH	COLOR	FINISH	COLOR	FINISH	COLOR	FINISH	COLOR	FINISH	COLOR	HEIGHT	
101	LOBBY	POL CON	PC-01	RUB-01		PAINT		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	MTL MESH	FF	10'-0"	
	LOBBY ELEVATOR WALL	POL CON	PC-01	RUB-01				WOOD PANEL	CHERRY	WOOD PANEL	CHERRY	NA	NA		FF	10'-0"	
102	VESTIBULE	POL CON	PC-01	RUB-01		PAINT	CLR-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	MTL MESH	FF	10'-0"	SEE SHEET A7.23, A7.24
103	STAIR 01	POL CON	PC-01	NONE		PAINT	CLR-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	NONE	-	VARIES	
104	MAINTENANCE TOILET	CT	CT-01	CT	CT-01	CT/GWB	CT-02	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	
105	MAINTENANCE LOCKER ROOM	CFS	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
106	COPY	POL CON	PC-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
107	TELEPHONE / COMMUNICATIONS CLOSET	POL CON	PC-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	±11'-6"	1 HOUR RATED CEILING
108	STORAGE	POL CON	PC-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	
109	CONFERENCE ROOM	CPT-01	-	RUB-01		GWB-PTD	PTD-02	GWB-PTD	PTD-02	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
110	GENERAL MANAGER'S OFFICE	CPT-01	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-02	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
111	OPEN OFFICE	CPT-01	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-02	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
112	OFFICE CORRIDOR	POL CON	PC-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	MTL MESH	FF	9'-6"	
113	OPERATIONS ASSISTANT & ACCOUNTING OFFICE	CPT-01	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-02	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
114	WOMEN	CT	CT	CT	CT-02	CT/GWB	CT-04	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	SEE SHEET 7.20 FOR WALL PATTERN
115	MEN	CT	CT	CT	CT-02	CT/GWB	CT-04	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	SEE SHEET 7.20 FOR WALL PATTERN
116	OPERATIONS MANAGER'S OFFICE	CPT-01	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-02	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
117	DISPATCH OFFICE	CPT-01	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-02	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
118	CORRIDOR 01	POL CON	PC-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	MTL MESH	FF	9'-6"	
119A	CORRIDOR 02	POL CON	PC-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-6"	
119B	CORRIDOR 02	POL CON	PC-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-6"	
120	STAIR 02	CFS	-	PTD CMU		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	VARIES	
121	MECHANICAL / ELECTRICAL ROOM 01	CFH	VINYL	VINYL	VIN-01	GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	±11'-6"	2 HOUR RATED CEILING
122	STORAGE ROOM	RUBBER	RUBTL-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
123	JANITOR CLOSET 01	RUBBER	RUBTL-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
124	PARTS AND RECEIVING	CFH	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
125	PARTS STORAGE	CFH	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
126	SHOP	CFH	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
127	CORRIDOR 03	CFH	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
128	MAINTENANCE EQUIPMENT STORAGE	CFH	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
129	BUILDING MAINTENANCE SUPPLY STORAGE	CFH	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
130	STAIR 03	CFS	-	NONE		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXP-PTD	WHITE	VARIES	
131	CORRIDOR 04	CFH	-			GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	
132	MAINTENANCE OFFICE	RUBBER	RUBTL-02	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
133	LIFT BAY 01	CFH	-	NO BASE		GWB/PLWD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXP-PTD	WHITE	VARIES	
134	LIFT BAY 02	CFH	-	NO BASE		GWB/PLWD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXP-PTD	WHITE	VARIES	
135	WASH RECYCLING	CFH	-	NO BASE		CMU/EXP		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXP-PTD	WHITE	VARIES	
136	FLUIDS	CFH	-	NO BASE		CMU/EXP		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
137	WASTE FLUIDS	CFH	-	NO BASE		CMU/EXP		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
138	TRASH AND RECYCLING	CFH	-	NO BASE		CMU/EXP		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	9'-0"	1 HOUR RATED CEILING
139	BUS WASH	CFH	-	NO BASE		CMU		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXP-PTD	WHITE	9'-0"	
140	BUS STORAGE	CFH	-	NO BASE		CMU/EXP		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXP-PTD	WHITE	9'-0"	
201	STAIR 01	CFS	-	-		PAINT	CLR-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	VARIES	
202	CORRIDOR 06	RUBBER	RUBTL-02	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	10'-0"	
203	WOMEN'S LOCKER ROOM	CT	CT	CT		CT/GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
204	WOMEN'S TOILET	CT	CT	CT		CT/GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	SEE SHEET 7.20 FOR WALL PATTERN
205	MEN'S TOILET	CT	CT	CT		CT/GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	SEE SHEET 7.20 FOR WALL PATTERN
206	MEN'S LOCKER ROOM	CT	CT	CT		CT/GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
207	BREAK ROOM	RUBBER	RUBTL-02	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	SEE SECT	
208	CORRIDOR 06	RUBBER	RUBTL-02	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	10'-0"	1 HOUR RATED CEILING
209	WOMEN'S BUNK	CPT2	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	8'-0"	
210	MEN'S BUNK	CPT2	-	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	8'-0"	
211	STAIR 02	CFS	-	PTD CMU		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	VARIES	1 HOUR RATED CEILING
212	STORAGE	RUBBER	RUBTL-02	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	VARIES	1 HOUR RATED CEILING
213	ELEVATOR CONTROL ROOM	RUBBER	RUBTL-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	11'-0"	1 HOUR RATED CEILING, CEILING MUST CLEAR PENETRATIONS -- A5.20
214	JANITOR CLOSET 02	RUBBER	RUBTL-01	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	ACT-01	WHITE	9'-0"	
215	CORRIDOR 07	RUBBER	RUBTL-02	RUB-01		GWB-PTD		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	WHITE	VARIES	
216	STAIR 04	CFS	-	-		-		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	-	-	-	
217	MEZZANINE STORAGE	CFS	-	-		-		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXPOSED	-	-	
218	STAIR 03	CFS	-	-		-		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	-	-	-	
219	MECHANICAL	CFS	-	-		GWB		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXPOSED	WHITE	SEE SECT	
220	MEZZANINE	CFS	-	-		CMU/GWB		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXPOSED	WHITE	SEE SECT	
221	COMPRESSOR	CFS	-	-		CMU		GWB-PTD	PTD-01	GWB-PTD	PTD-01	GWB-PTD	PTD-01	EXPOSED	WHITE	SEE SECT	

FINISH SCHEDULE ABBREVIATIONS:

(ACT) ACOUSTICAL CEILING TILE
(CFH) CONCRETE FLOOR HARDENER
(CFS) CONCRETE FLOOR SEALED
(CLR) CLEAR
(CPT) CARPET
(CT) CERAMIC TILE
(EXP) EXPOSED

(EXP) EXPOSED
(GWB) GYPSUM WALLBOARD
(PLYWD) PLYWOOD
(POL CON) POLISHED CONCRETE
(PTD) PAINT
(RUB) RUBBER
(RUBTL) RUBBER TILE
(WD) WOOD

CPT-01:
Straight talk P/6892; 50cm and 1m
Modular carpet with Underscore ES
cushion - Design Snap Back, Color 221
Limestone, Face Fiber 100% Milliken
Certified WearOn Type 6,6 Nylon

CPT-02:
Theory P/6387; 36"x36" Tufted Modular
Carpet with comfort Plus cushion -
Design Quite Please, Color 209 Raisin,
Face fiber 100% Milliken Certified
WearOn Type 6,6 Nylon

PL-01:
Plastic laminate
Wilsonart Laminate 7925-78
Monticello Maple

PL-02:
Plastic laminate
Wilsonart Laminate D91-80
Slate Grey

PL-03:
Plastic laminate
Wilsonart Laminate 7931-78
Zaffron

PL-04:
Plastic Laminate
Wilsonart Laminate AK1102
Chrome

PL-05:
Plastic Laminate
Wilsonart Laminate D12-60
Regimental Red

RUB-01:
WALL BASE ROPPE 123 CHARCOAL

RUBTL-01:
ROPPE ESD CONTROL TILE
#757 TORNADO GREY

RUBTL-02:
CENTIVA PATTERN GOOD ALE WOODS
COLOR HY-GW-40 SURFACE RUBBER
EDGE STANDARD

CT-01:
DAL TILE PRODUCT NAME DESIGNER
COLOURS SIZE 12"x12" GLAZED
COLOR DC15-WHITE

CT-02:
DAL TILE PRODUCT NAME VITRESTONE
SELECT SIZE 12"x12" GLAZED
COLOR VS02-WHITE GRANITE

CT-03:
DAL TILE PRODUCT NAME NATURAL HUES
SIZE 12"x12" GLAZED
COLOR SWEET PEA QH28

CT-04:
DAL TILE PRODUCT NAME NATURAL HUES
SIZE 12"x12" GLAZED
COLOR CINDER QH08

CT-05:
DAL TILE PRODUCT NAME NATURAL HUES
SIZE 12"x12" GLAZED
COLOR GRAPE QH54

CT-06:
DAL TILE PRODUCT NAME NATURAL HUES
SIZE 12"x12" GLAZED
COLOR REAL TEAL QH66

CT-07:
DAL TILE PRODUCT NAME PORCE ALTO
SELECT SIZE 12"x12"
COLOR CD-39

PTD-01:
BENJAMIN MOORE
CHANTILLY LACE
2121-70

PTD-02:
BENJAMIN MOORE
RAPTURE (RED)
CC-66

PTD-03:
BENJAMIN MOORE
PAINT ACCENT WALL
ORANGE APPEAL
124

PTD-04:
BENJAMIN MOORE
PAINT ACCENT WALL
SCENIC DRIVE 697

PTD-05:
BENJAMIN MOORE
AURA BLUE NOVA 825
SEMI-GLOSS

PTD-06:
BENJAMIN MOORE
AURA SPRING MEADOW
GREEN 2031-40
SEMI-GLOSS

PTD-07:
BENJAMIN MOORE
STORM AF-700

PTD ALL DOORS:
BENJAMIN MOORE
COS COB STONEWALL 1483

POL CON:
POLISHED CONCRETE
DRAMATIC DPS 530
SURFACE

DPS/LTORY
FINISHED WITH 2 COATS
STONELOK "E" GLOSS AND 1 COAT
STONELOK 2K LOW GLOSS

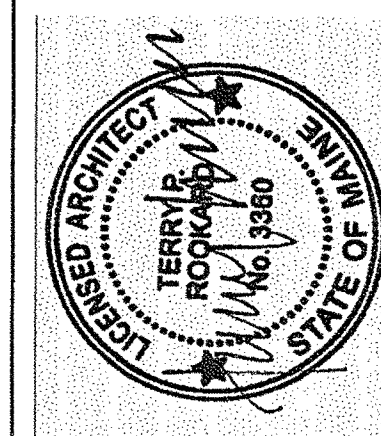
STAINLESS STEEL GRATING:
VESTIBULE ROOM 102
KADEE INDUSTRIES
SS CLEAN TREAD
KD98 (1-1/8")STAINLESS STEEL GRATING

MAT:
4"x4" FORDOM
4"x8" FORDOM
CHOCOLATE - FRE.140

CORIAN COUNTER TOP:
SECOND FLOOR RESTROOMS
MONT BLANC

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE
FED PIN NO:
PIN NO: 16123.50



SIGNATURE
TERRY P. ROOKARD
ARCH. LIN. NUMBER
3360

1		2		3		4		5		6		7		8		9		10			
DESCRIPTION 1 HR SHAFTWALL PARTITION - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 6" 20 GA CT METAL STUDS @ 24" OC - 1 LAYER 1" X 24" TYPE 'X' GYPSUM WALLBOARD PANELS - METAL J STUD RECEPTOR AT SILL AND HEAD - FIRE SAFING AT HEAD - 1 HR SEALANT AT PERIMETER		DESCRIPTION METAL PANEL PARTITION - 1 LAYER OF 5/8" GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC - 1 3/8" THICK X 24" WIDE METAL PANELS 24 GAUGE W/ FACTORY FINISH - PROVIDE METAL FLASHING W/ WATER PROOF SEALANT AT BUS WASH - COLUMN LINE AC, ABOVE 8" CMU WALL 8" 20 GA METAL STUDS @ 16" OC		DESCRIPTION 1 HR CMU PARTITION - 8" CONCRETE MASONRY UNITS - 1 HR SEALANT AT PERIMETER - FIRE SAFING AT WALL HEAD - 8" CONCRETE MASONRY UNITS W/ GLAZED CMU ON BUS WASH SIDE - WATER RESISTANT GROUT		DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1/2" CONSTRUCTION BOARD ON LIFT BAY SIDE		DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC - 1 LAYER 1/2" CONSTRUCTION BOARD W/ FINISHED SURFACE MANUF. "DRAGON BOARD" OR APPROVED EQUAL BY ARCHITECT - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD		DESCRIPTION GWB & METAL STUD PARTITION - 5/8" GYPSUM WALLBOARD - 3-5/8" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - 2 LAYERS 5/8" GYPSUM WALLBOARD - CHANNEL RECEPTOR AT HEAD - USE MOISTURE RESISTANT GWB AT TOILET / SHOWER - SOUND PROOFING SEALANT AT PERIMETER AND ALL PENETRATIONS		NOTES: 1. FOR PAINT, TILE AND OTHER FINISHES, REFER TO FINISH SCHEDULE. 2. COVER ALL EXPOSED GYPSUM WALLBOARD EDGES WITH "J" BEAD AND ALL EXPOSED CORNERS WITH CORNER BEADS. 3. USE GYPSUM WALLBOARD AS FOLLOWS UNO: - INTERIOR PARTITIONS, FURRING, ETC. USE 5/8" GYPSUM WALLBOARD - FIRE RATED PARTITIONS USE 5/8" TYPE 'X' GYPSUM WALLBOARD - JANITOR CLOSETS, SHOWERS, TOILETS, KITCHENS AND OTHER MOIST AREAS USE 5/8" MOISTURE RESISTANT GYPSUM WALLBOARD		INDICATES PARTITION TYPE INDICATES FIRE RATING WHEN APPLICABLE		STATE OF MAINE DEPARTMENT OF TRANSPORTATION DATE FED PIN NO: PIN NO: 16123.50					
REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS			
PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE			
DESCRIPTION CONSTRUCTION BOARD PARTITION - BACK-UP WALL - 1 LAYER 1/2" CONSTRUCTION BOARD W/ FINISHED SURFACE MANUF. "DRAGON BOARD" OR APPROVED EQUAL BY ARCHITECT - MOISTURE RESISTANT GROUT @ JOINTS AND SEAMS		DESCRIPTION CHASE - 3-5/8" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - 2 LAYERS OF 5/8" GYPSUM WALLBOARD - HORIZONTAL BRACING 8"-0" OC VERTICAL - CHANNEL RECEPTOR AT HEAD		DESCRIPTION FURRED INTERIOR WALL - BACK-UP WALL - 3 5/8" MTL STUDS @ 16" OC - 5/8" GYPSUM WALLBOARD TO 6" ABOVE FINISHED CEILING		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD		DESCRIPTION 2 HR GWB & METAL STUD PARTITION - 2 LAYERS 5/8" TYPE 'X' GYPSUM WALLBOARD, BOTH SIDES - 6" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - CHANNEL RECEPTOR AT HEAD - 2 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - FIRE SAFING AT WALL HEAD	
REMARKS		REMARKS USE AT SOUND PROOF CHASES		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS			
PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE			
DESCRIPTION GWB & METAL STUD PARTITION - 1 LAYER 5/8" GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC		DESCRIPTION FURRED INTERIOR WALL - BACK-UP WALL - 7/8" MTL FURRING @ 16" OC - 5/8" GYPSUM WALLBOARD TO 6" ABOVE FINISHED CEILING - 4" WOOD FURRING AT BASE		DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GWB - 3-5/8" 20 GA METAL STUDS @ 16" OC - SOUND ATTENUATION BATTS - 1 LAYER 1/2" CONSTRUCTION BOARD MANUFACTURER "DRAGONBOARD" OR APPROVED EQUAL BY ARCHITECT - 1 HR SEALANT AT PERIMETER AND ALL ALL PENETRATIONS - CHANNEL RECEPTOR & FIRE SAFING		DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GWB - 3-5/8" 20 GA METAL STUDS @ 16" OC - SOUND ATTENUATION BATTS - 1 LAYER 1/2" CONSTRUCTION BOARD MANUFACTURER "DRAGONBOARD" OR APPROVED EQUAL BY ARCHITECT - 1 LAYER 5/8" TYPE 'X' GWB															
REMARKS USE AT EXTERIOR HALF WALL		REMARKS		REMARKS		REMARKS USE AT ELECTRICAL AND MECHANICAL AND TELE/COM ROOMS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS			
PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE			
DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1/2" CONSTRUCTION BOARD ON LIFT BAY SIDE		DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1/2" CONSTRUCTION BOARD ON LIFT BAY SIDE		DESCRIPTION 1 HR CMU PARTITION - 8" CONCRETE MASONRY UNITS - 1 HR SEALANT AT PERIMETER - FIRE SAFING AT WALL HEAD - 8" CONCRETE MASONRY UNITS W/ GLAZED CMU ON BUS WASH SIDE - WATER RESISTANT GROUT		DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD - 1/2" CONSTRUCTION BOARD ON LIFT BAY SIDE		DESCRIPTION 1 HR GWB & METAL STUD PARTITION - 1 LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD - 6" 20 GA METAL STUDS @ 16" OC - 1 LAYER 1/2" CONSTRUCTION BOARD W/ FINISHED SURFACE MANUF. "DRAGON BOARD" OR APPROVED EQUAL BY ARCHITECT - 1 HR SEALANT AT PERIMETER - CHANNEL RECEPTOR AND FIRE SAFING AT HEAD		DESCRIPTION GWB & METAL STUD PARTITION - 5/8" GYPSUM WALLBOARD - 3-5/8" 20 GA METAL STUDS 16" OC - SOUND ATTENUATION BATTS - 2 LAYERS 5/8" GYPSUM WALLBOARD - CHANNEL RECEPTOR AT HEAD - USE MOISTURE RESISTANT GWB AT TOILET / SHOWER - SOUND PROOFING SEALANT AT PERIMETER AND ALL PENETRATIONS		NOTES: 1. FOR PAINT, TILE AND OTHER FINISHES, REFER TO FINISH SCHEDULE. 2. COVER ALL EXPOSED GYPSUM WALLBOARD EDGES WITH "J" BEAD AND ALL EXPOSED CORNERS WITH CORNER BEADS. 3. USE GYPSUM WALLBOARD AS FOLLOWS UNO: - INTERIOR PARTITIONS, FURRING, ETC. USE 5/8" GYPSUM WALLBOARD - FIRE RATED PARTITIONS USE 5/8" TYPE 'X' GYPSUM WALLBOARD - JANITOR CLOSETS, SHOWERS, TOILETS, KITCHENS AND OTHER MOIST AREAS USE 5/8" MOISTURE RESISTANT GYPSUM WALLBOARD		INDICATES PARTITION TYPE INDICATES FIRE RATING WHEN APPLICABLE		STATE OF MAINE DEPARTMENT OF TRANSPORTATION DATE FED PIN NO: PIN NO: 16123.50					
REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS			
PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE			
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REMARKS		REMARKS USE AT SOUND PROOF CHASES		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS			
PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE			
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REMARKS		REMARKS USE AT SOUND PROOF CHASES		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS		REMARKS			
PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE		PARTITION TYPE			
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DOOR SCHEDULE

FLOOR	DOOR NO	SPACE (ROOM NO)	PAIR OR SINGLE	DOOR OPENING		DOOR SWING	DOOR			FRAME			DETAIL			FIRE LABEL	HOUR GROUP	NOTES
				WIDTH	HEIGHT		TYPE	METAL	FINISH	TYPE	METAL	FINISH	HEAD	JAMB	THRESHOLD			
FIRST FLOOR	101A	LOBBY (101)	PR	3'-0"	7'-0"	L/RHR	3	ALUMINUM	FF	L & M	ALUMINUM	FF	SEE SHEET A8.04	NONE			FRAME MAKE UP BOTH SIDES OF VESTIBULE	
	101B	LOBBY (101)	S	3'-0"	7'-0"	LH	2	HM	P	A1	HM	P	1/A4.21	3/A4.21	8/A4.21	B	2 HOUR RATED, INSULATED	
	101C	LOBBY (101)	S	3'-0"	7'-0"	LH	4	HM	P	C	HM	P	SEE SHEET A8.04	NONE			PUSH & PULL ONLY, NO HARDWARE	
	102	VESTIBULE (102)	PR	3'-0"	7'-0"	L/RHR	3	ALUMINUM	FF	K	ALUMINUM	FF	SEE SHEET A8.04	9/A4.22			EXTERIOR DOOR – MAIN ENTRANCE	
	104	MAINTENANCE TOILET (104)	S	3'-0"	7'-0"	RH	1	HM	P	A1	HM	P	1/A4.20	5/A4.20	11/A4.20			
	105	MAINTENANCE LOCKER (105)	S	3'-0"	7'-0"	LHR	1	HM	P	A1	HM	P	1/A4.21	3/A4.21	8/A4.21	B	2 HOUR RATED, INSULATED	
	107	TELE/COM (107)	PR	2'-0"	7'-0"	L/RHR	5	HM	P	B1	HM	P	2/A4.20	6/A4.20	9/A4.20	C	1 HOUR RATED	
	108	STORAGE (108)	PR	2'-0"	7'-0"	L/RHR	1	HM	P	B1	HM	P	1/A4.20	5/A4.20	NONE			
	109	CONFERENCE ROOM (109)	PR	3'-0"	7'-0"	L/RHR	4	HM	P	N	HM	P	SEE SHEET A8.04	10/A4.20				
	110	GENERAL MANAGER OFFICE (110)	S	3'-0"	7'-0"	RH	4	HM	P	E	HM	P	SEE SHEET A8.04	10/A4.20				
	112A	OFFICE CORRIDOR (112)	S	3'-0"	7'-0"	RH	4	HM	P	C	HM	P	SEE SHEET A8.04	NONE				
	112B	OFFICE CORRIDOR (112)	S	3'-0"	7'-0"	RHR	3	ALUMINUM	FF	H	ALUMINUM	FF	SEE SHEET A8.04	9/A4.22				EXTERIOR DOOR – THERMAL BREAK FRAME & INSULATED GLASS
	113	ACCOUNTING AND OPERATIONS ASST	S	3'-0"	7'-0"	LH	4	HM	P	E-OPP H	HM	P	SEE SHEET A8.04	10/A4.20				
	114	WOMEN (114)	S	3'-0"	7'-0"	LH	5	HM	P	A1	HM	P	1/A4.20	5/A4.20	11/A4.21			
	115	MEN (115)	S	3'-0"	7'-0"	RH	5	HM	P	A1	HM	P	1/A4.20	5/A4.20	11/A4.21			
	116	OPERATIONS MANAGER OFFICE (116)	S	3'-0"	7'-0"	RH	4	HM	P	C	HM	P	SEE SHEET A8.04	10/A4.20				
	117	DISPATCH (117)	S	3'-0"	7'-0"	RH	4	HM	P	C	HM	P	SEE SHEET A8.04	10/A4.20				
	118	CORRIDOR 01 (118)	S	3'-0"	7'-0"	LH	4	HM	P	C	HM	P	SEE SHEET A8.04	NONE				
	119A	CORRIDOR 02 (119)	S	3'-0"	7'-0"	LHR	3	ALUMINUM	FF	H	ALUMINUM	FF	SEE SHEET A8.04	9/A4.22				EXTERIOR DOOR – THERMAL BREAK FRAME & INSULATED GLASS
	119B	CORRIDOR 02 (119)	S	3'-0"	7'-2"	RHR	2	HM	P	F	HM	P	SEE SHEET A8.04	9/A4.20				EXTERIOR DOOR – INSULATED FRAME AND GLASS
	120A	STAIR 02 (120)	S	3'-0"	7'-0"	RHR	1	HM	P	D	HM	P	1/A4.27	2&5/A4.27	9/A4.20	C	EXTERIOR DOOR – 1 HOUR RATED, GROUT FRAME, INSULATED	
	120B	STAIR 02 (120)	S	3'-0"	7'-0"	RHR	2	HM	P	D	HM	P	3/A4.27	4/A4.27	9/A4.20	C	1 HOUR RATED, GROUT FRAME	
	121A	MECHANICAL/ELECTRICAL (121)	PR	3'-0"	7'-2"	L/RHR	1	HM	P	B2	HM	P	1/A4.26	3&5/A4.26	9/A4.20	B	EXTERIOR DOOR – 2 HOUR RATED, INSULATED	
	121B	MECHANICAL/ELECTRICAL (121)	S	3'-0"	7'-0"	RH	1	HM	P	A	HM	P	3/A4.20	7/A4.20	9/A4.20	B	2 HOUR RATED, INSULATED FOR SOUND	
	122	STORAGE ROOM (122)	S	3'-0"	7'-0"	LHR	1	HM	P	A1	HM	P	1/A4.20	5/A4.20	NONE			
	123	JANITOR CLOSET (123)	S	3'-0"	7'-0"	LHR	5	HM	P	A1	HM	P	11/A7.30	11/A7.30	NONE			
	124A	PARTS/RECEIVING (124)	PR	3'-0"	7'-2"	L/RHR	1	HM	P	B2	HM	P	1/A4.26	3&5/A4.26	9/A4.20			EXTERIOR DOOR, INSULATED
	124B	PARTS/RECEIVING (124)	PR	3'-0"	7'-0"	L/RHR	2	HM	P	B2	HM	P	4/A4.20	8/A4.20	NONE			1 HOUR RATED
	125	PARTS STORAGE (125)	PR	3'-0"	7'-0"	L/RHR	6	STEEL	FF	NONE	STEEL	FF	SEE MANF. DWGS	NONE				CHAIN LINK FENCE DOOR & PARTITION W/ LOCKING DROP ROD
	126	SHOP (126)	PR	3'-0"	7'-0"	L/RHR	2	HM	P	B2	HM	P	4/A4.20	8/A4.20	NONE			1 HOUR RATED
	128	MAINT. EQUIPMENT STORAGE (128)	PR	3'-0"	7'-0"	L/RH	1	HM	P	B2	HM	P	4/A4.20	8/A4.20	NONE			1 HOUR RATED
	129	BLDG. MAINT. SUPPLY STORAGE (129)	S	3'-6"	7'-0"	RH	1	HM	P	A3	HM	P	4/A4.20	8/A4.20	NONE			1 HOUR RATED
	132	MAINTENANCE OFFICE (132)	S	3'-0"	7'-0"	LH	4	HM	P	I & J	HM	P	SEE SHEET A8.04	9/A4.20				INSULATED GLASS
	133A	LIFT BAY 01 (133)	SD	12'-0"	12'-6"	N/A	8	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS
	133B	LIFT BAY 01 (133)	S	3'-0"	7'-2"	LHR	2	HM	S	A1	HM	P	1/A4.26	3&5/A4.26	9/A4.20			EXTERIOR DOOR, INSULATED
	133C	LIFT BAY 01 (133)	S	3'-0"	7'-2"	RHR	2	HM	S	A1	HM	P	1/A4.26	3&5/A4.26	9/A4.20			EXTERIOR DOOR, INSULATED
	133D	LIFT BAY 01 (133)	SD	12'-0"	12'-6"	N/A	8	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS & 6"Ø AUTO. EXHAUST PORT
	134A	LIFT BAY 02 (134)	SD	12'-0"	12'-6"	N/A	8	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS
	134B	LIFT BAY 02 (134)	SD	12'-0"	12'-6"	N/A	8	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS & 6"Ø AUTO. EXHAUST PORT
	135A	WASH RECYCLING (135)	RU	6'-0"	7'-2"	N/A	7	STEEL	P	B2	STEEL	P	2/A4.25	4&5/A4.25	NONE			EXTERIOR ROLLUP DOOR
	135B	WASH RECYCLING (135)	S	3'-0"	7'-2"	RH	1	HM	P	A1	HM	P	4/A4.22	8/A4.22	9/A4.20	C	1 HOUR RATED, GROUT FRAME	
	135C	WASH RECYCLING (135)	S	3'-0"	7'-2"	LHR	1	HM	P	A1	HM	P	4/A4.22	8/A4.22	9/A4.20	C	1 HOUR RATED, GROUT FRAME	
136	FLUIDS (136)	PR	3'-0"	7'-2"	L/RHR	1	HM	P	B2	HM	P	4/A4.22	8/A4.22	11/A4.22	C	1 HOUR RATED, GROUT FRAME		
137	WASTE FLUID (137)	PR	3'-0"	7'-2"	L/RHR	1	HM	P	B2	HM	P	4/A4.22	8/A4.22	11/A4.22	C	1 HOUR RATED, GROUT FRAME		
138A	TRASH AND RECYCLING (138)	RU	6'-0"	7'-2"	N/A	7	STEEL	P	B2	STEEL	P	2/A4.25	4&5/A4.25	NONE			EXTERIOR ROLLUP DOOR	
138B	TRASH AND RECYCLING (138)	S	3'-0"	7'-2"	RHR	2	HM	P	A1	HM	P	1/A4.26	3&5/A4.26	9/A4.20			EXTERIOR DOOR, INSULATED	
138C	TRASH AND RECYCLING (138)	S	3'-0"	7'-2"	LH	1	HM	P	A1	HM	P	4/A4.22	8/A4.22	9/A4.20	C	1 HOUR RATED, GROUT FRAME		
138D	TRASH AND RECYCLING (138)	S	3'-0"	7'-2"	RHR	1	HM	P	A1	HM	P	4/A4.22	8/A4.22	9/A4.20	C	1 HOUR RATED, GROUT FRAME		
139A	BUS WASH (139)	SD	14'-0"	12'-6"	N/A	9	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE					
139B	BUS WASH (139)	SD	14'-0"	12'-6"	N/A	9	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE					
139C	BUS WASH (139)	S	3'-0"	7'-2"	RH	1	HM	S	A1	HM	P	4/A4.22	8/A4.22	9/A4.20				
139D	BUS WASH (139)	S	3'-0"	7'-2"	RHR	1	HM	S	A1	HM	P	4/A4.22	8/A4.22	9/A4.20				
140A	BUS STORAGE (140)	SD	22'-0"	12'-6"	N/A	10	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS	
140B	BUS STORAGE (140)	SD	22'-0"	12'-6"	N/A	10	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS	
140C	BUS STORAGE (140)	S	3'-0"	7'-2"	RHR	2	HM	P	A1	HM	P	1/A4.26	3&5/A4.26	9/A4.20			EXTERIOR DOOR, INSULATED	
140D	BUS STORAGE (140)	SD	22'-0"	12'-6"	N/A	10	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS	
140E	BUS STORAGE (140)	SD	22'-0"	12'-6"	N/A	10	STEEL	P	G	STEEL	P	SEE SHEET A8.04	NONE				EXTERIOR SECTIONAL DOOR W/ WINDOWS	
140F	BUS STORAGE (140)	S	3'-0"	7'-2"	RH	2	HM	P	A1	HM	P	1/A4.26	3&5/A4.26	9/A4.20			EXTERIOR DOOR, INSULATED	
140G	BUS STORAGE (140)	S	3'-0"	7'-2"	LH	2	HM	P	A1	HM	P	1/A4.26	3&5/A4.26	9/A4.20			EXTERIOR DOOR, INSULATED	
141	CLEANING EQUIPMENT STORAGE	S	3'-0"	7'-2"	LH	1	HM	P	A1	HM	P	4/A4.22	8/A4.22	9/A4.20	C	EXTERIOR DOOR, 1 HOUR RATED, GROUT FRAME		
142	PUMP EQUIPMENT ENCLOSURE	S	3'-0"	7'-2"	RH	1	HM	P	A1	HM	P	4/A4.22	8/A4.22	9/A4.20	C	EXTERIOR DOOR, 1 HOUR RATED, GROUT FRAME		
SECOND FLOOR	203	WOMEN'S LOCKER (203)	S	3'-0"	7'-0"	RHR	4	HM	P	A1	HM	P	1/A4.20	5/A4.20	11/A4.20			
	206	MEN'S LOCKER (206)	S	3'-0"	7'-0"	LHR	4	HM	P	A1	HM	P	1/A4.20	5/A4.20	11/A4.20			
	208	CORRIDOR 07 (208)	S	3'-0"	7'-0"	RHR	2	HM	P	A1	HM	P	1/A4.20	5/A4.20	9/A4.20	C	1 HOUR RATED	
	209A	WOMEN'S BUNK (209)	S	3'-0"	7'-0"	LH	1	HM	P	A1	HM	P	1/A4.20	5/A4.20	10/A4.20	C	1 HOUR RATED	
	209B	WOMEN'S BUNK (209)	S	1'-8"	7'-0"	RHR	1	HM	P	A2	HM	P	1/A4.20	5/A4.20	NONE			
	209C	WOMEN'S BUNK (209)	S	1'-8"	7'-0"	LHR	1	HM	P	A2	HM	P	1/A4.20	5/A4.20	NONE			
	210A	MEN'S BUNK (210)	S	3'-0"	7'-0"	RH	1	HM	P	A1	HM	P	1/A4.20	5/A4.20	10/A4.20	C	1 HOUR RATED	
	210B	MEN'S BUNK (210)	S	1'-8"	7'-0"	LHR	1	HM	P	A2	HM	P	1/A4.20	5/A4.20	NONE			
	210C	MEN'S BUNK (210)	S	1'-8"	7'-0"	RHR	1	HM	P	A2	HM	P	1/A4.20	5/A4.20	NONE			
	211	STAIR 02 (211)	S	3'-0"	7'-0"	RHR	2	HM	P	D	HM	P	3/A4.27	5/A4.27	9/A4.20	C	1 HOUR RATED, GROUT FRAME – NEED 12"H CMU LINTEL	
	212	STORAGE (212)	S	3'-0"	7'-0"	RH	1	HM	P	A1	HM	P	8/A7.30	8/A7.30	9/A4.20	C	1 HOUR RATED	
	213	CONTROL ROOM (213)	S	3'-0"	7'-0"	RH	1	HM	P	A1	HM	P	2/A4.20	6/A4.20	9/A4.20	C	1 HOUR RATED – 12X18 FIRE DAMPER	
	214	JANITOR CLOSET 02 (214)	S	3'-0"	7'-0"	LHR	4	HM	P	A1	HM	P	11/A7.30	11/A7.30	NONE			
	215	CORRIDOR 07 (215)	S	3'-0"	6'-10"	RH	2	HM	P	A1	HM	P	1/A4.21	3/A4.21	7/A4.21	B	2 HOUR RATED	
219	MECHANICAL (219)	PR	3'-0"	7'-0"	L/RH	1	HM	P	B2	HM	P	1/A4.20	5/A4.20	9/A4.20				
221	COMPRESSOR (221)	PR	3'-0"	7'-0"	L/RH	1												

DOOR SCHEDULE ABBREVIATIONS:

(S) - DENOTES SINGLE LEAF DOOR
(PR) - DENOTES DOUBLE LEAF DOOR
(SD) - SECTIONAL OVERHEAD DOOR
(RU) - ROLLUP DOOR

Username: -

Division: -

Date: -

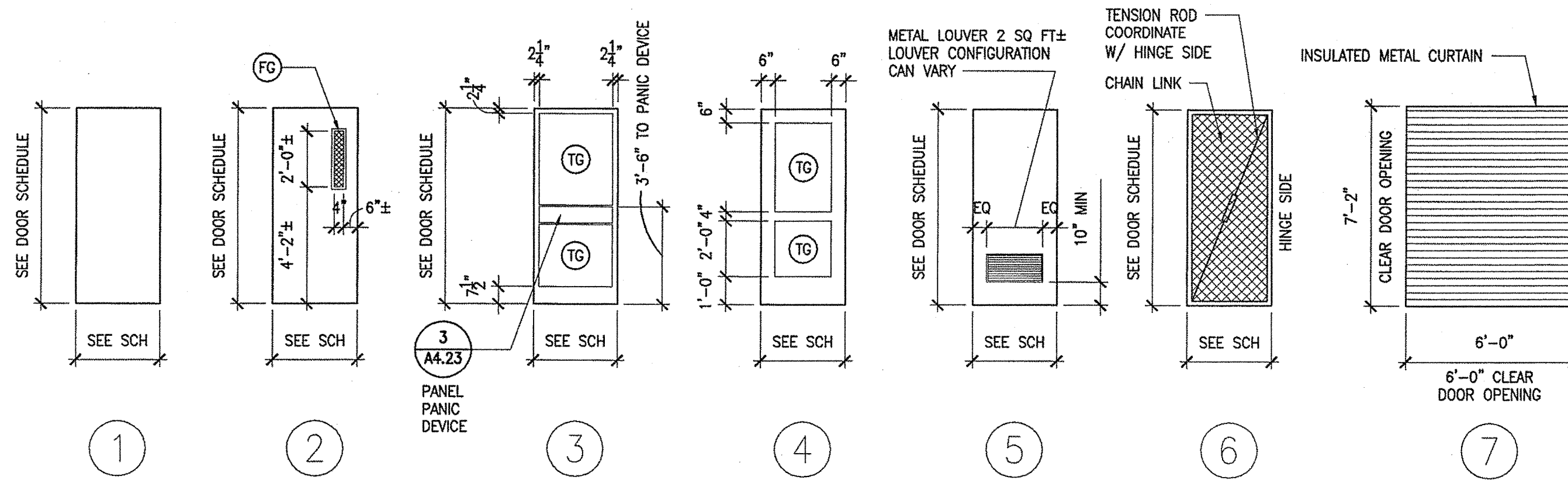
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- (G) 1/4" PLATE GLASS
(TG) 1/4" TEMPERED GLASS
(IG) 1" INSULATED GLASS
- (FG) 1" FIRE RATED GLASS
W/ EMBEDDED WIRE MESH
(100 SQUARE INCHES MAX)

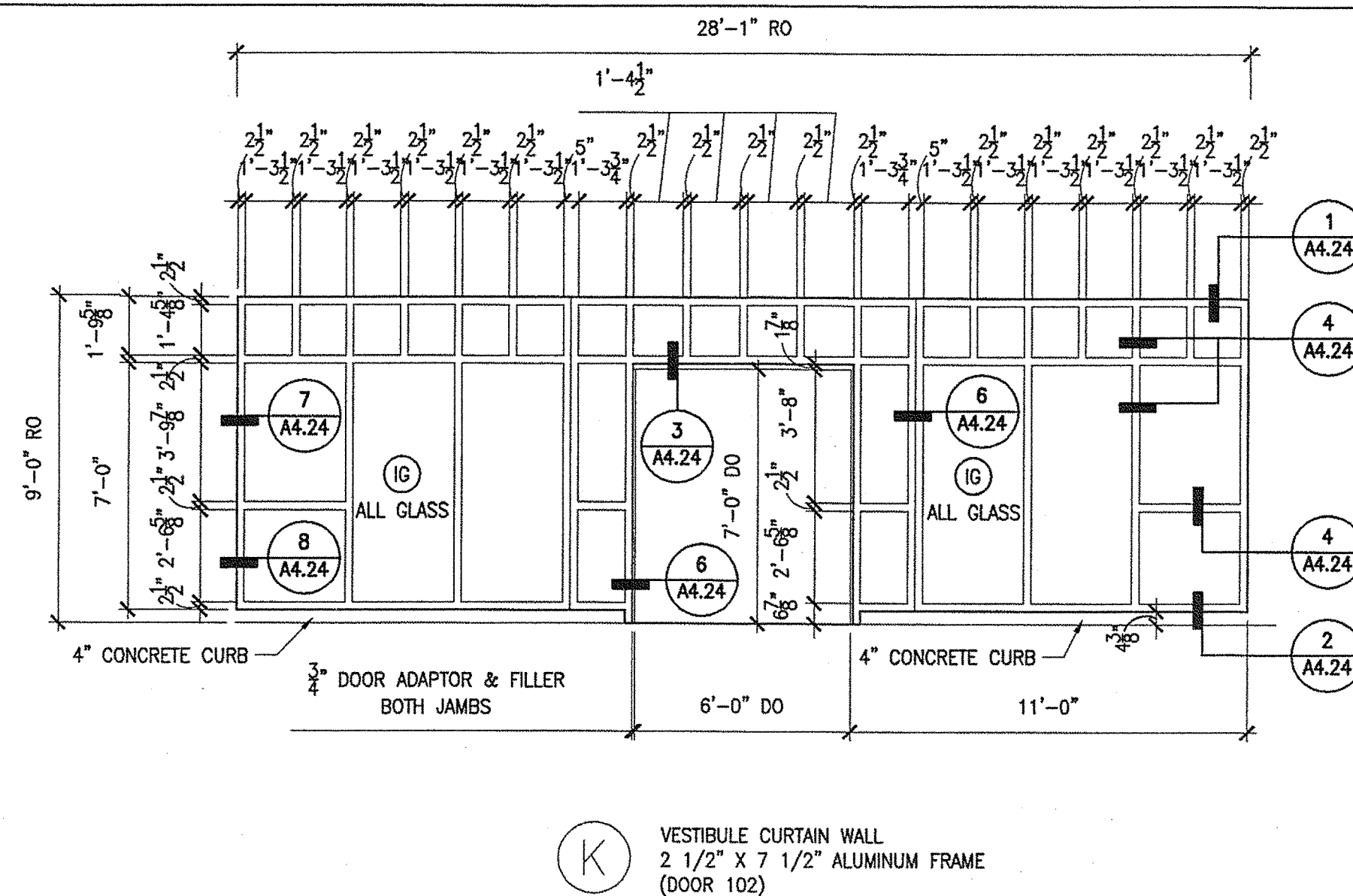
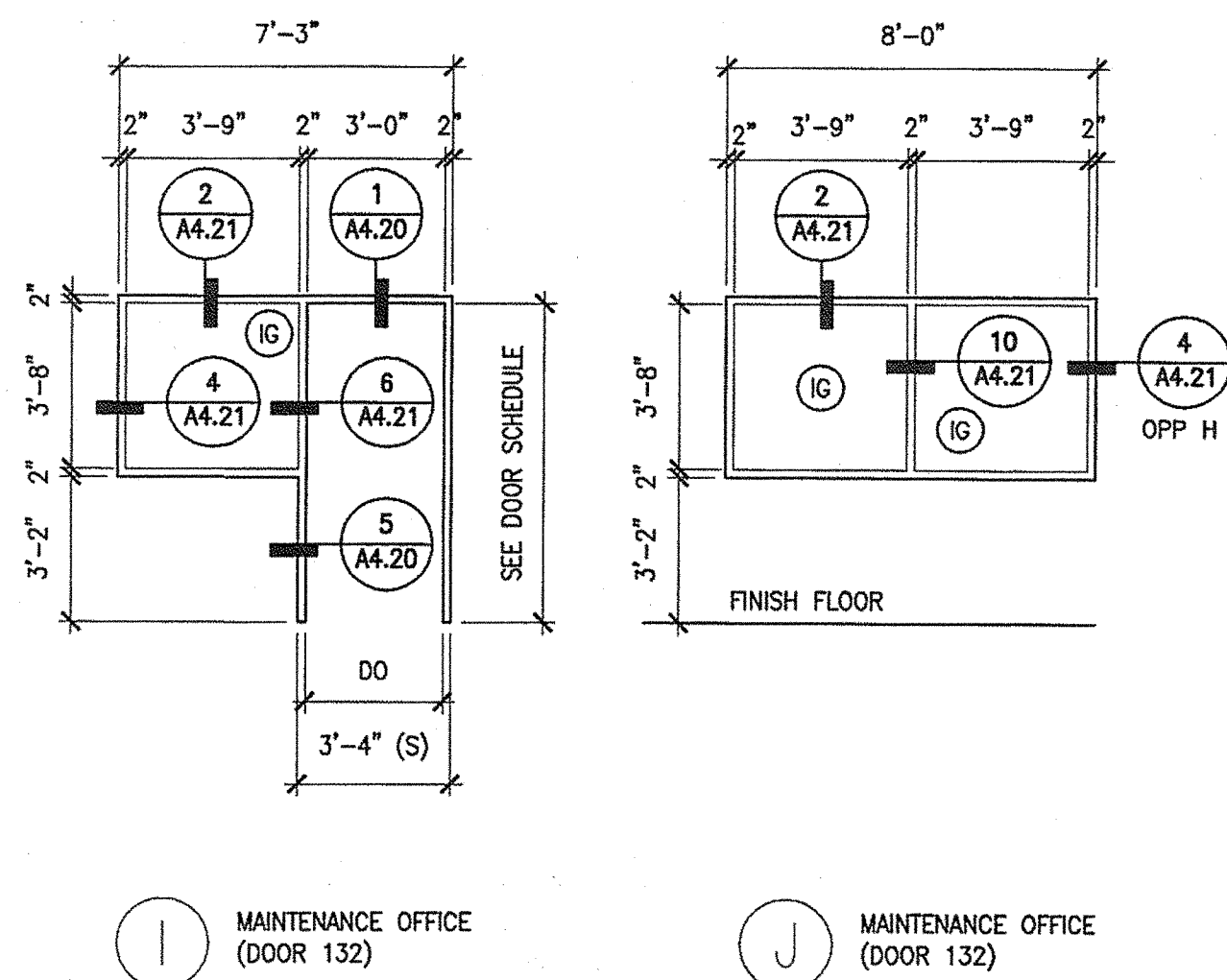
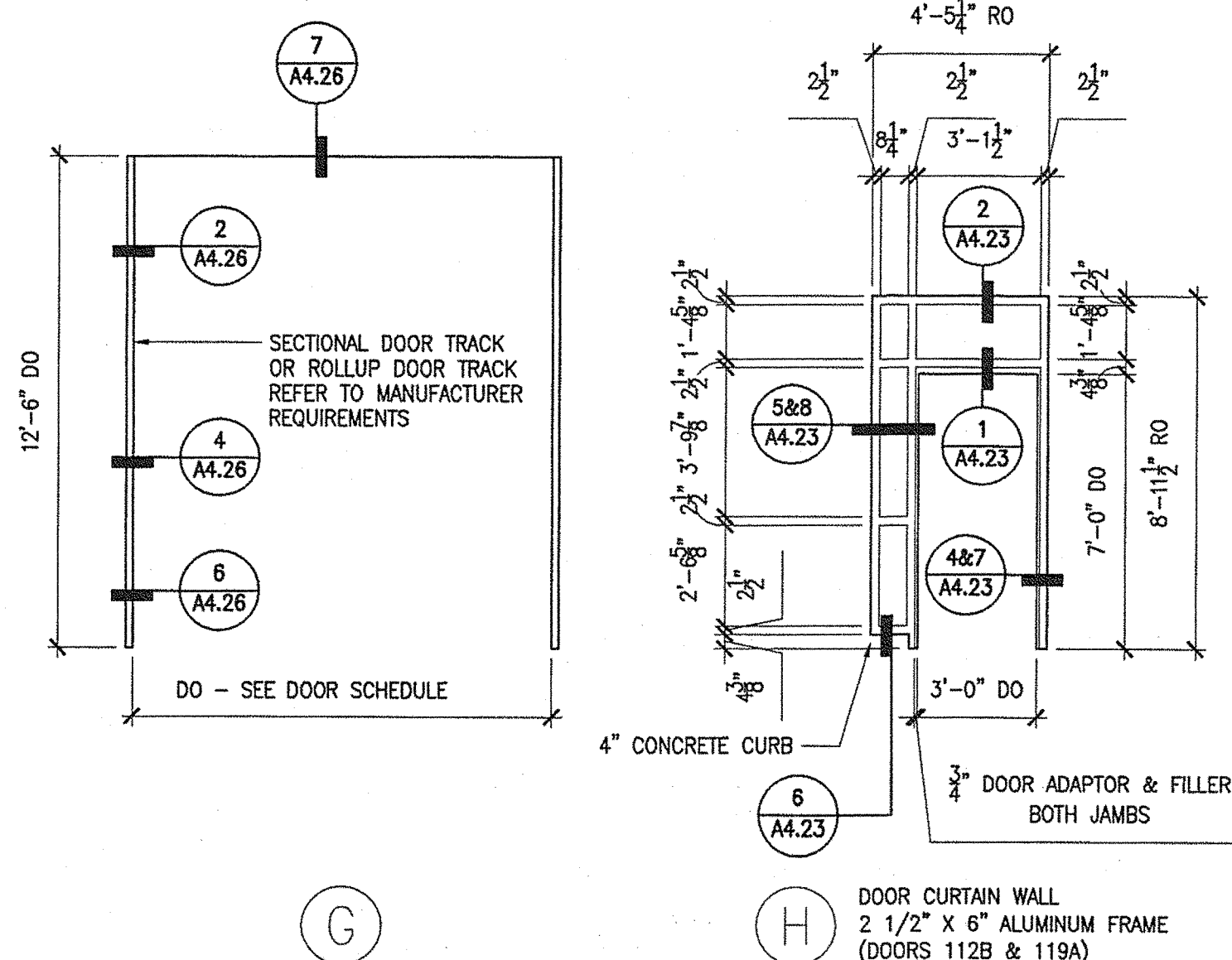
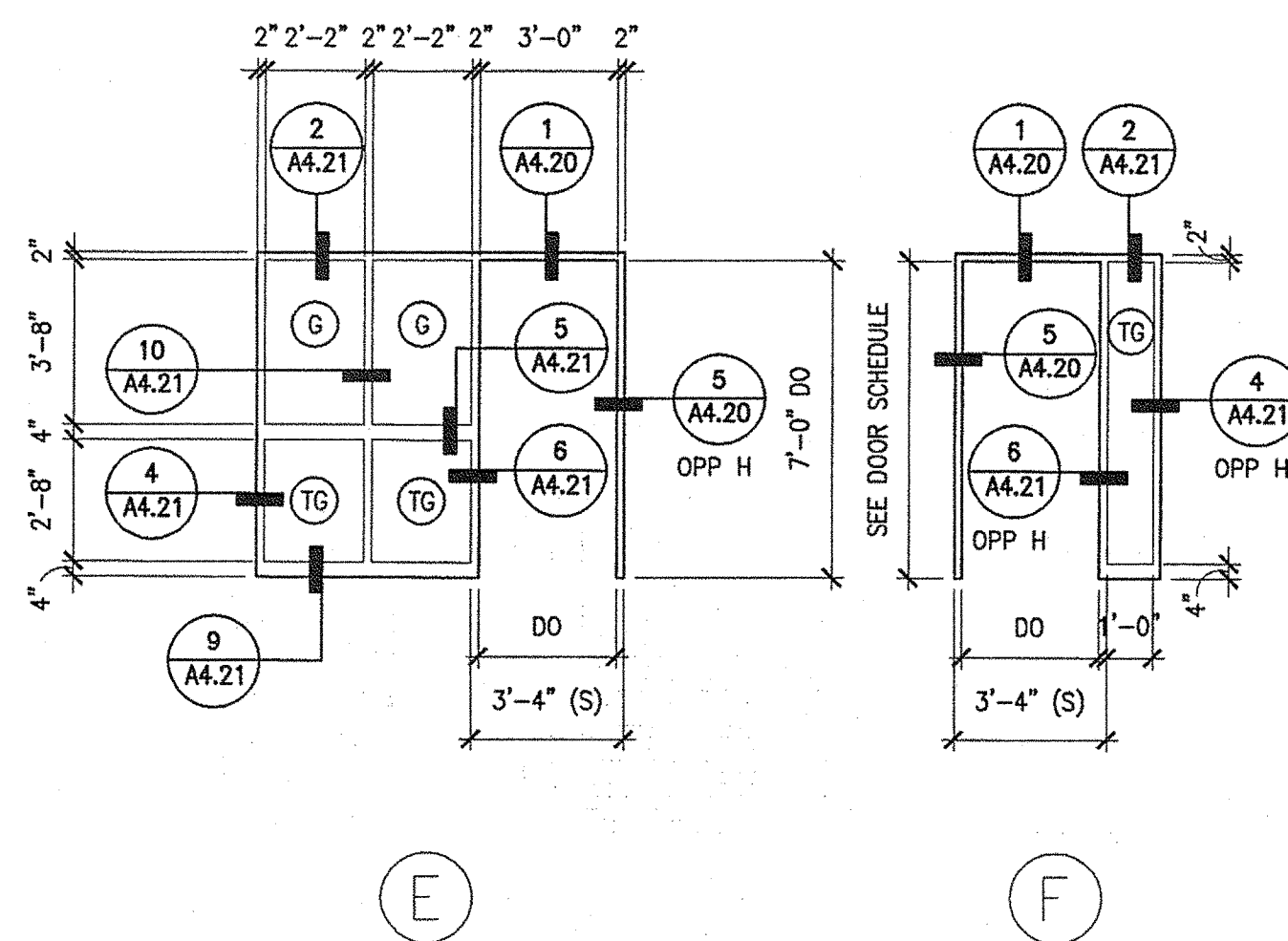
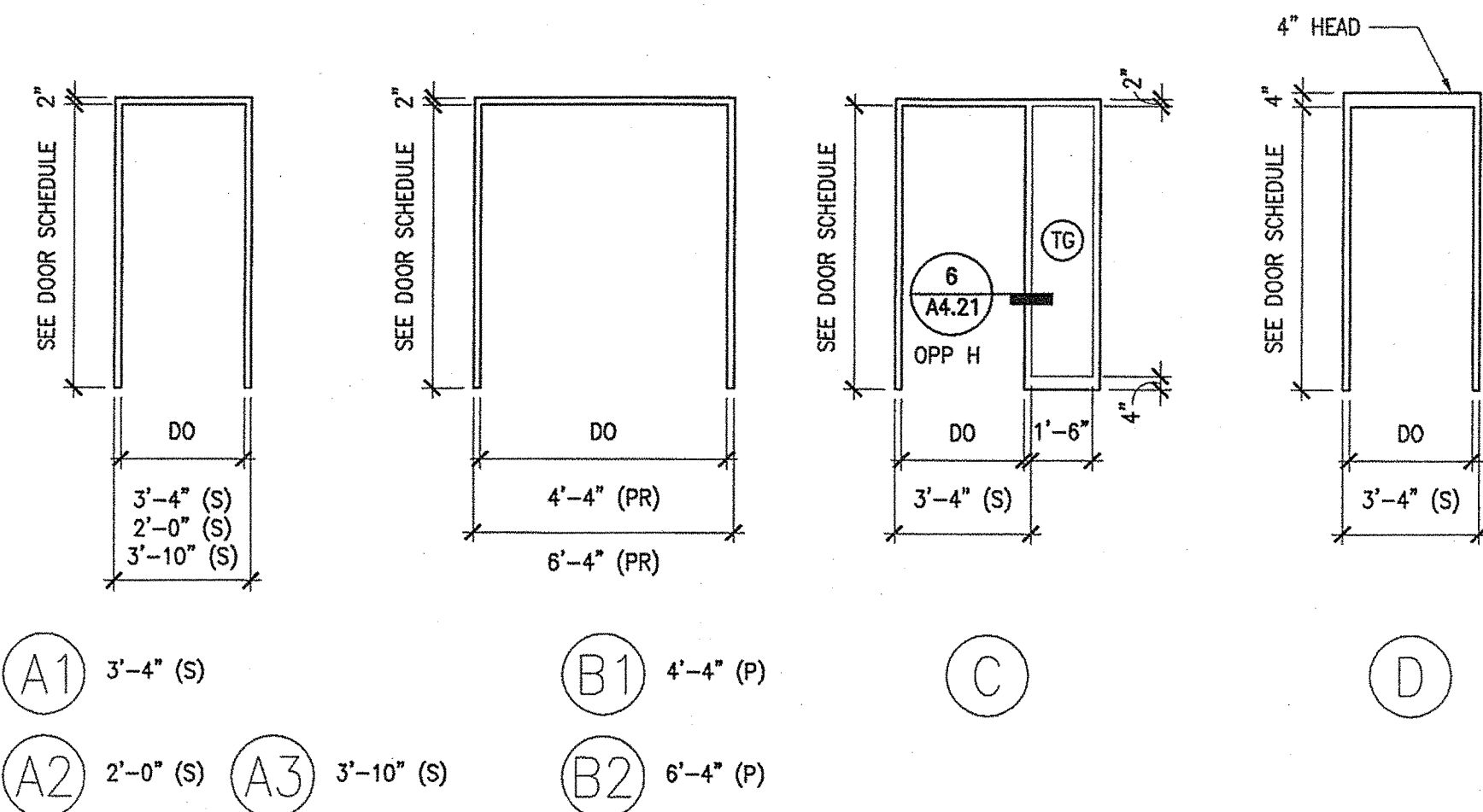
SECTIONAL DOOR NOTES:

- 1" INSULATED GLASS RECTANGULAR PANELS W/ LARGEST WINDOW OPENING PROVIDED BY MANUFACTURER. VERIFY DIMENSIONS W/ SHOP DRAWINGS. REFER TO SECTIONAL DOOR MANUFACTURER FOR REQUIREMENTS AND DIMENSIONS.
- RETAINER W/ WEATHER STRIPPING ASTRAGAL.
- AUTOMOTIVE EXHAUST PORT. REFER TO MANUFACTURER'S REQUIREMENTS. EXHAUST PORTS LOCATED ON DOORS 1330 AND 1348 ONLY. REFER TO SHEET A3.02.

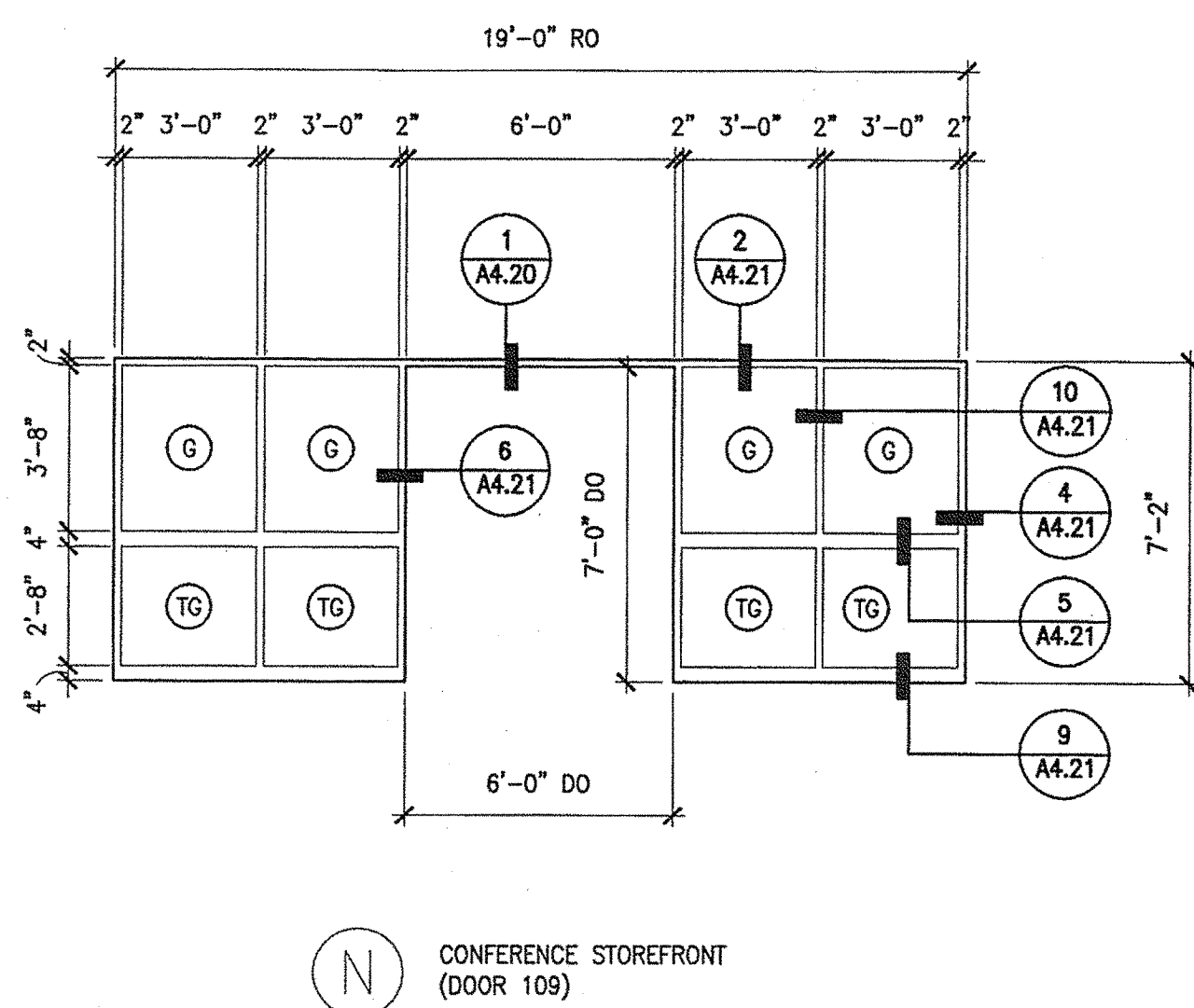
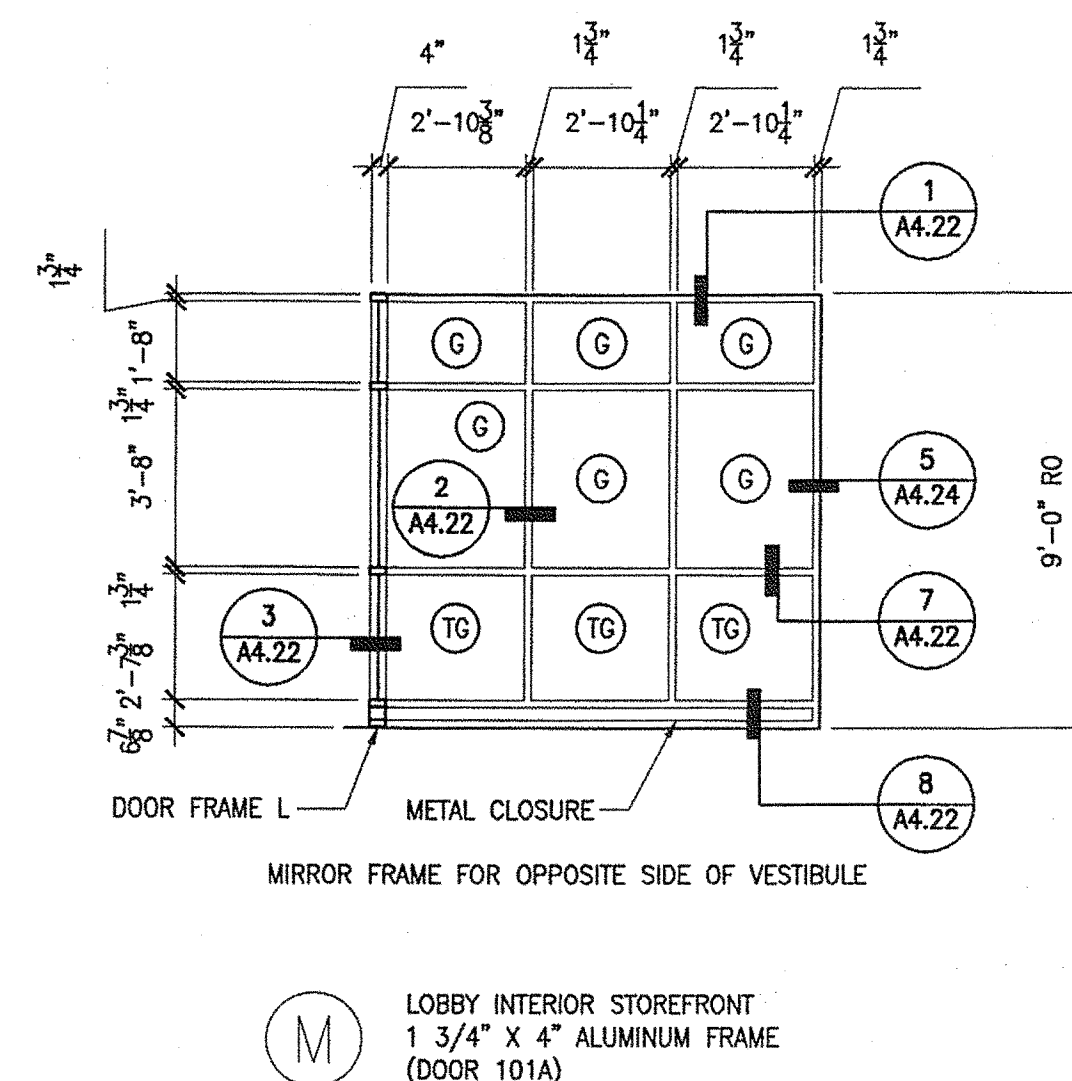
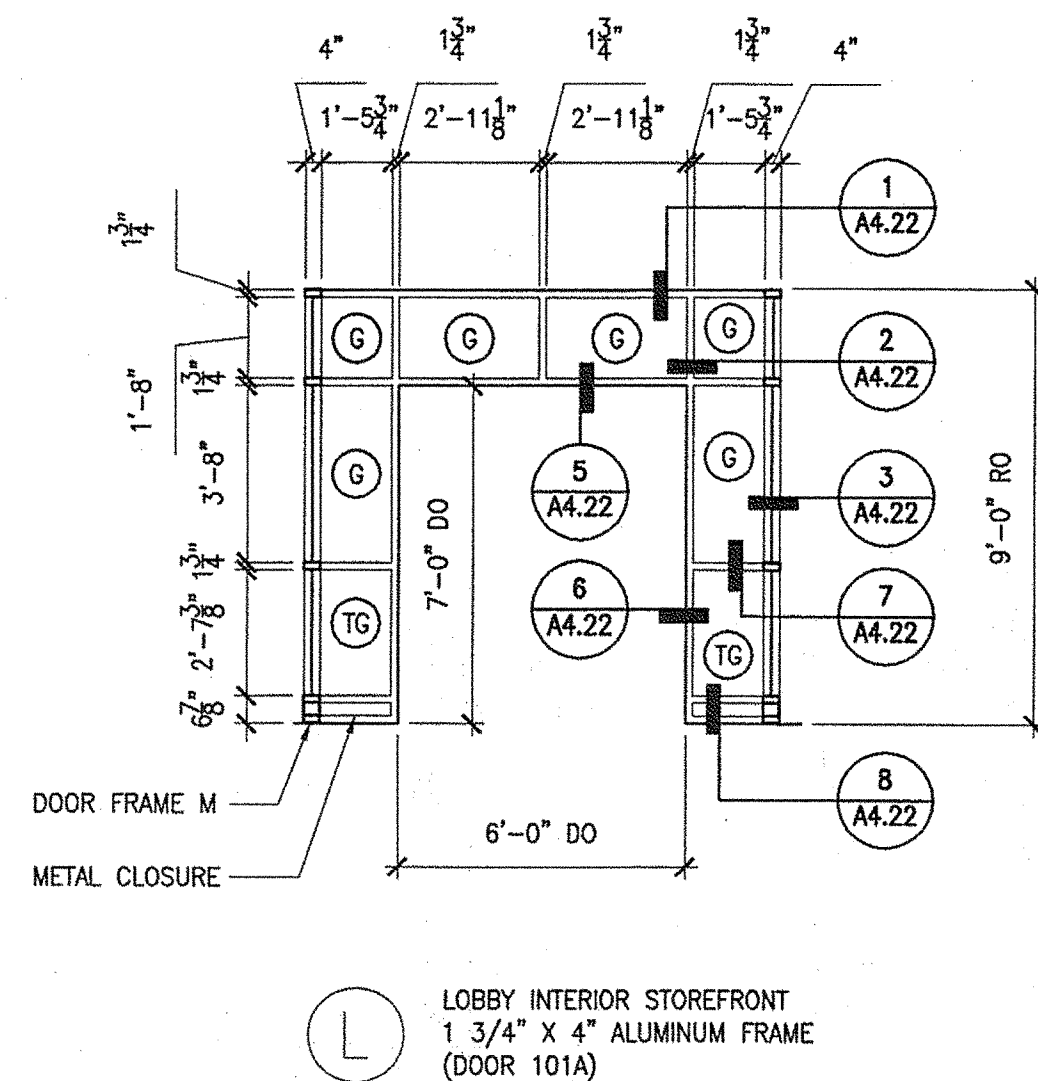


DOOR TYPES

- DOOR FRAME NOTES:
- ROLLUP AND SECTIONAL DOOR FRAMES/TRACKS TYPE G ARE STEEL.
 - DOOR FRAMES TYPES H, K, L AND M ARE ALUMINUM CURTAIN WALL AND ALUMINUM STOREFRONT.
 - REMAINING DOOR FRAMES ARE HOLLOW METAL.
 - REFER TO DOOR SCHEDULE SHEET A8.03.

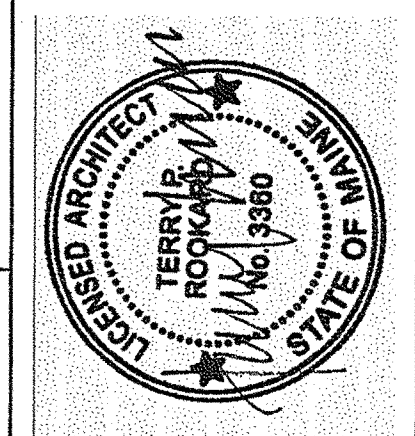


DOOR FRAME TYPES



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE
FED PIN NO:
PIN NO: 16123.50



PROJECT INFORMATION

PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR
-	WPF	TV	ALLIED ENGINEERING	-	-

SIGNATURE
TERRY P. ROARKARD
ARCH. LIN. NUMBER
3360

DATE
MAY 1, 2009

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

DOOR AND DOOR FRAME
ELEVATIONS

SHEET NUMBER

A8.04
OF

AECOM USA, Inc.
65 Long Wharf
Boston, MA
T 617.723.1700 F 617.723.6856
www.aecom.com

AECOM

Allied Engineering

160 Veranda Street
Portland, Maine 04103
T: 207.231.2368
F: 207.231.2366
Web: www.allied-eng.com

Allied Project No: 07010

Cad File: A8.04.dwg

Username: -

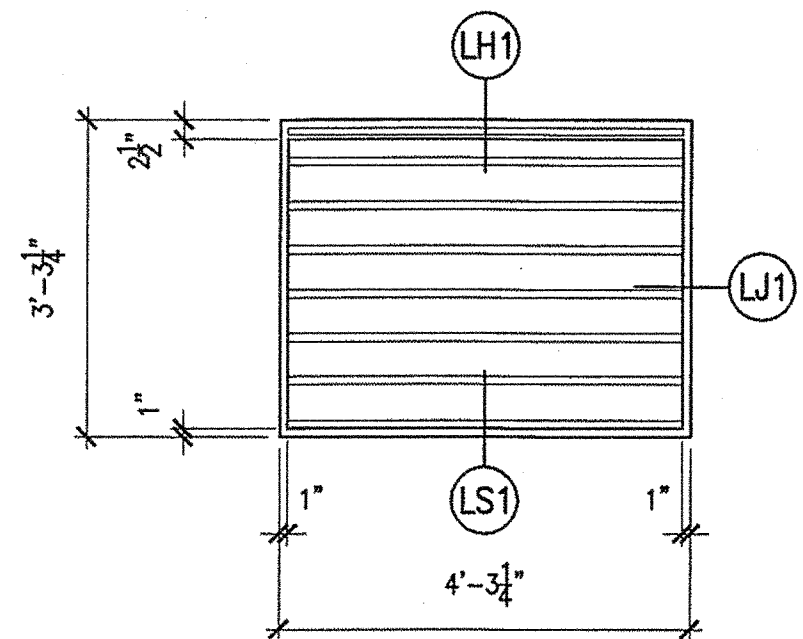
Division: -

Date: -

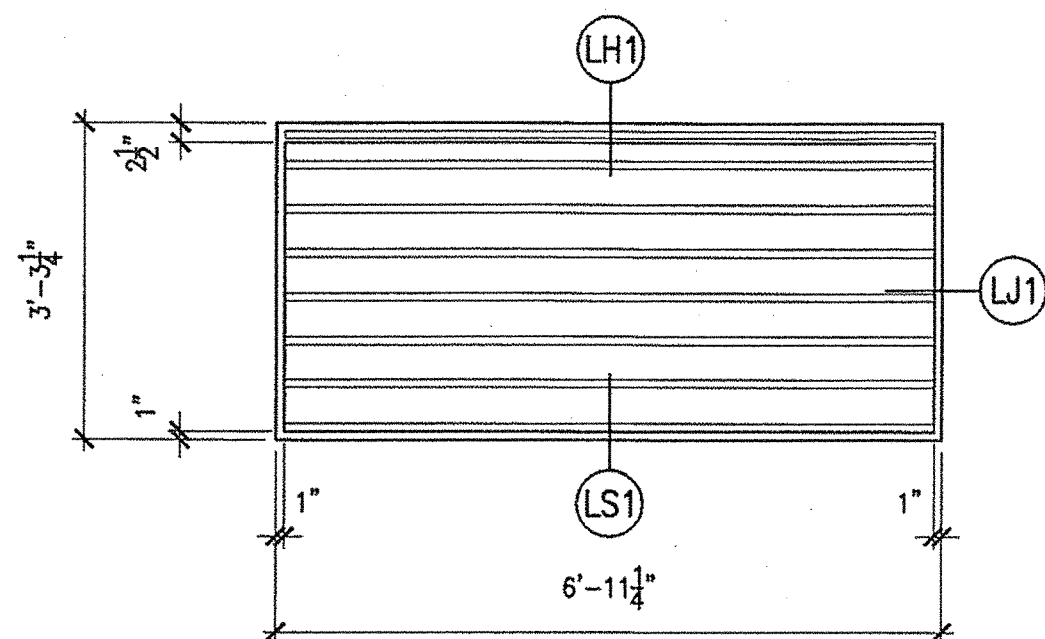
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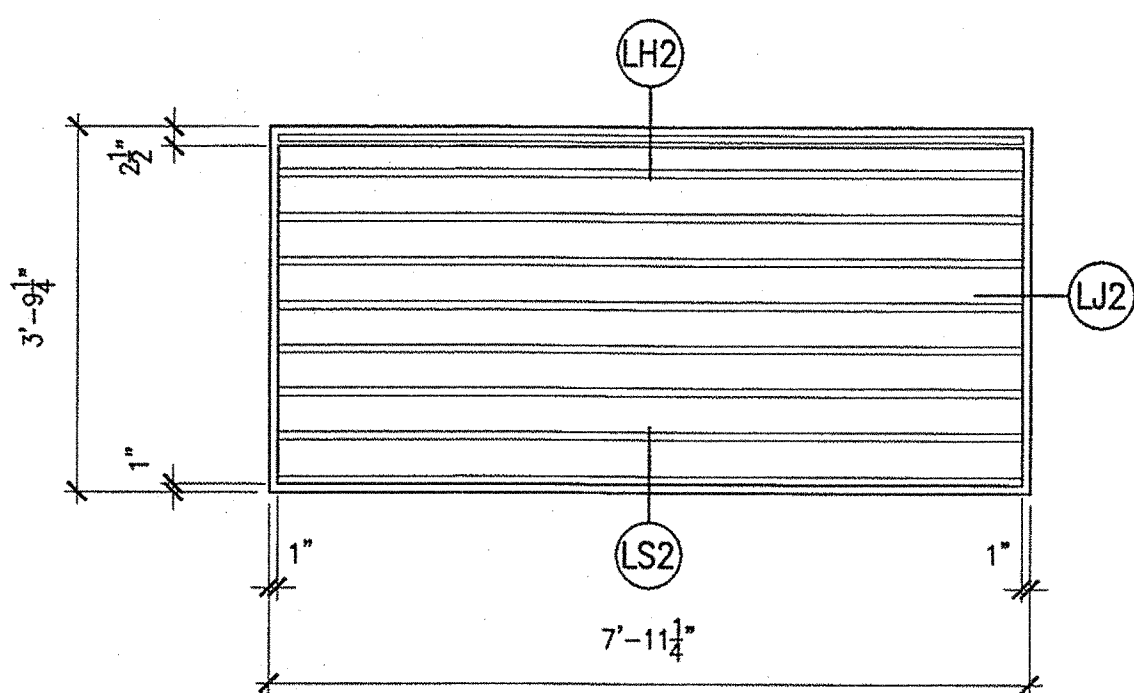
WINDOW TYPES



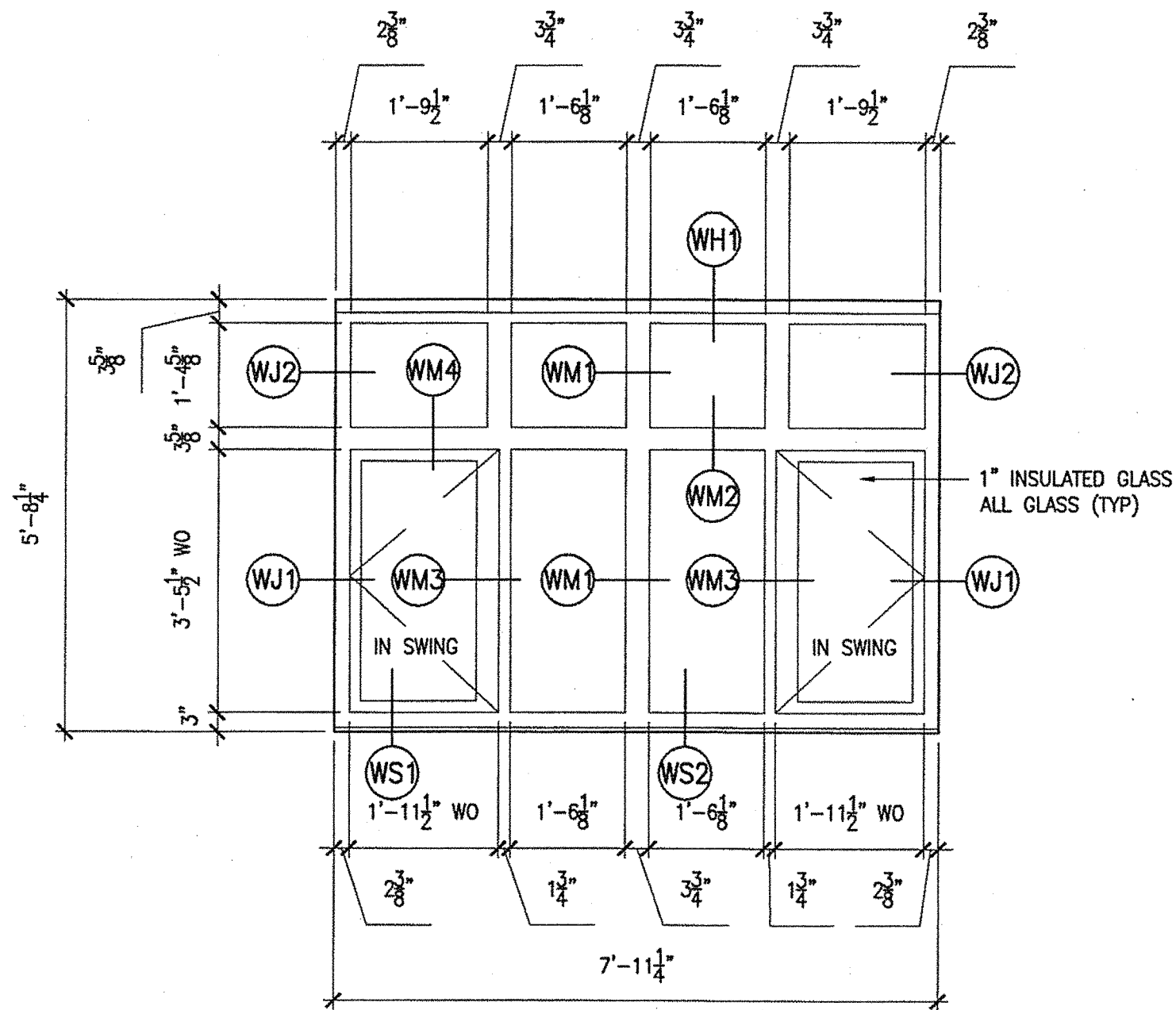
L1



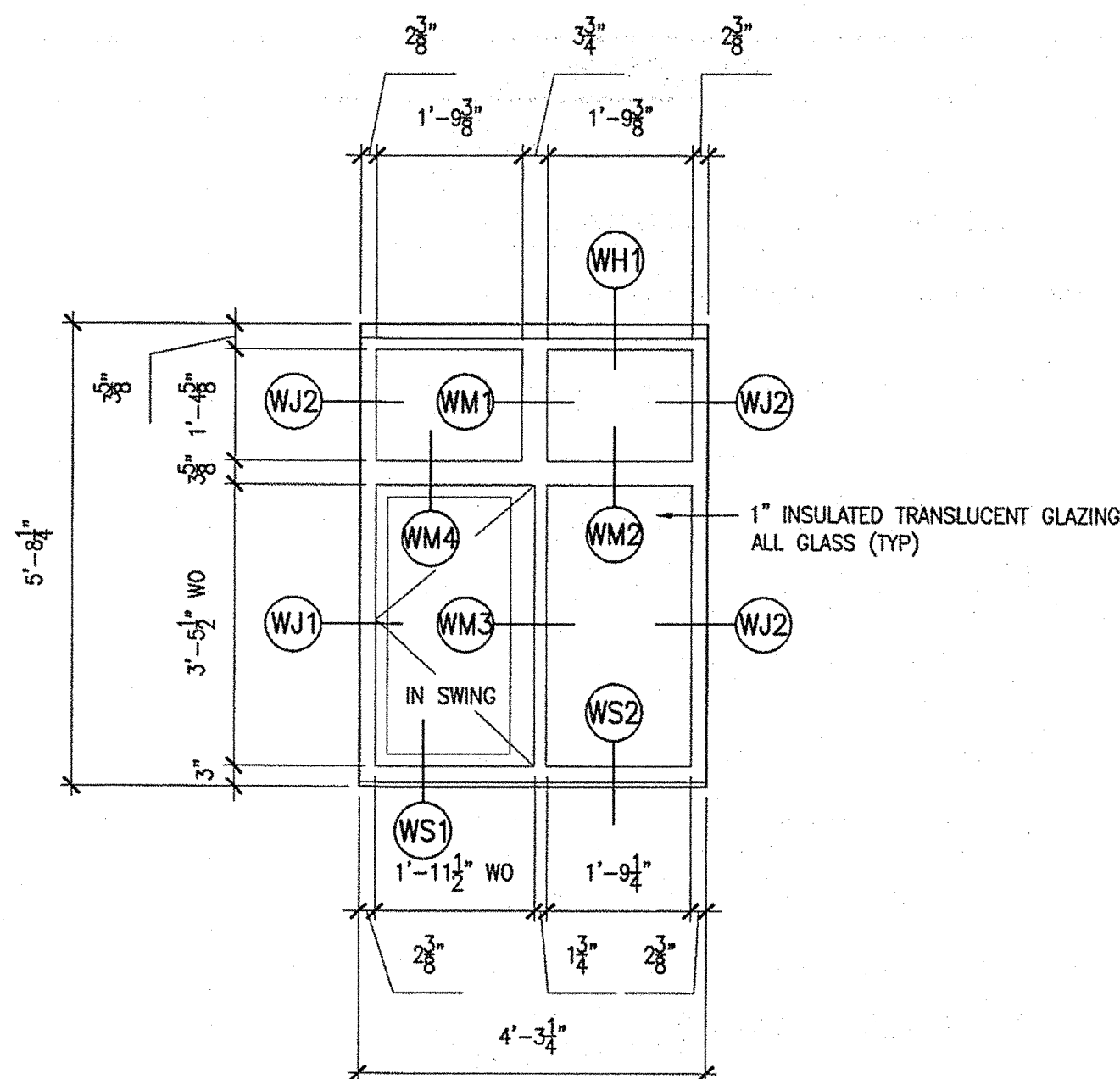
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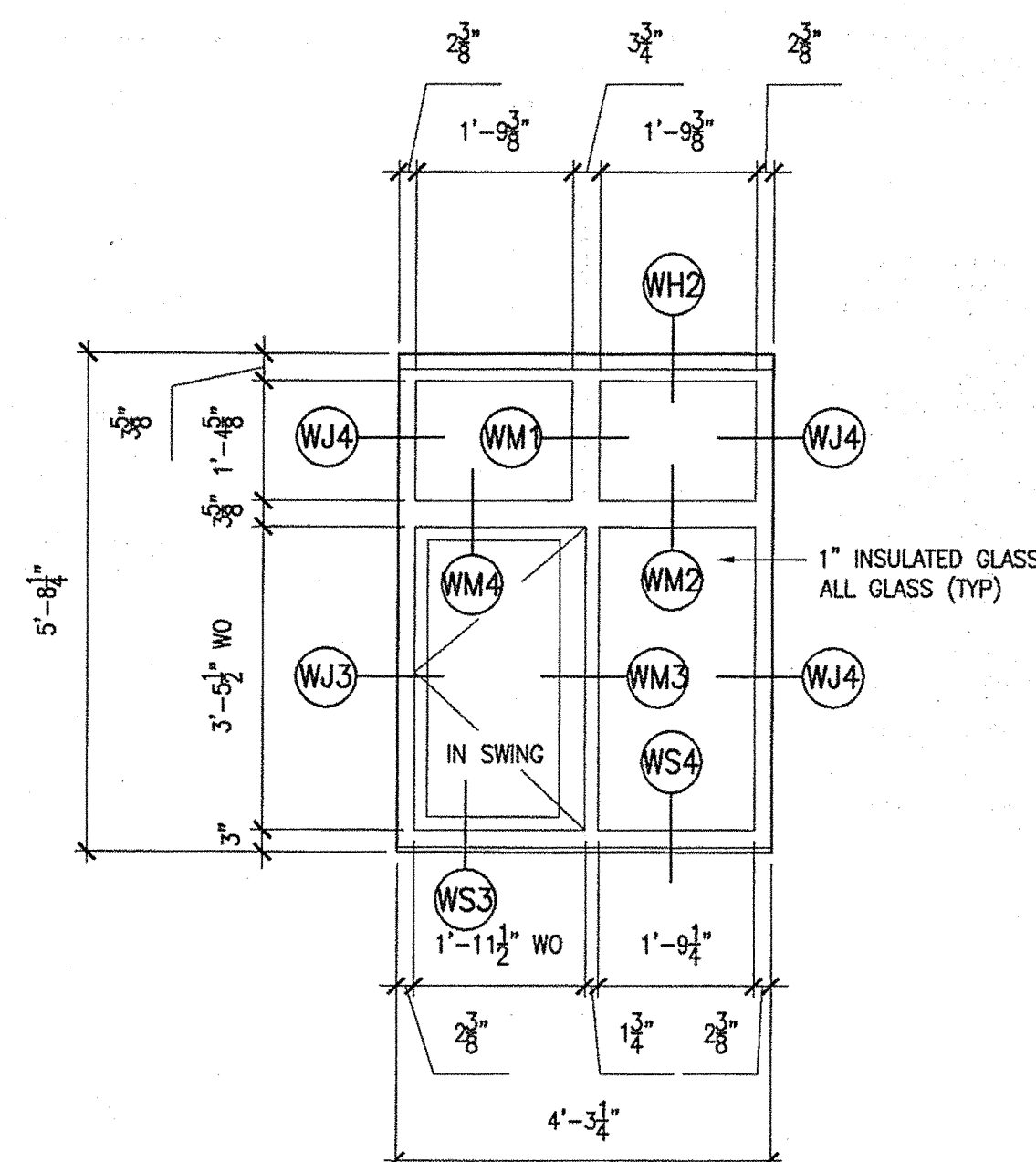
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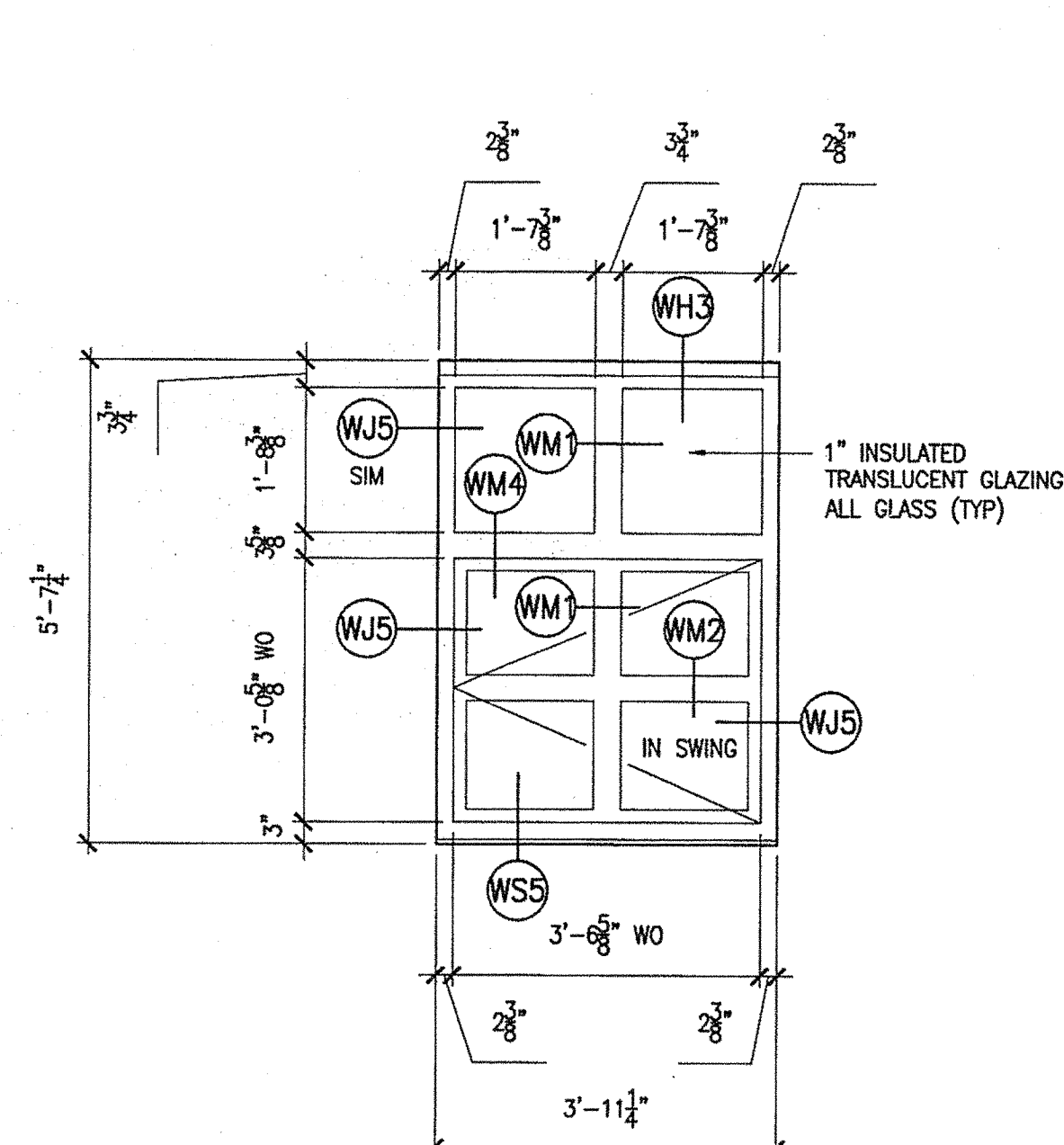
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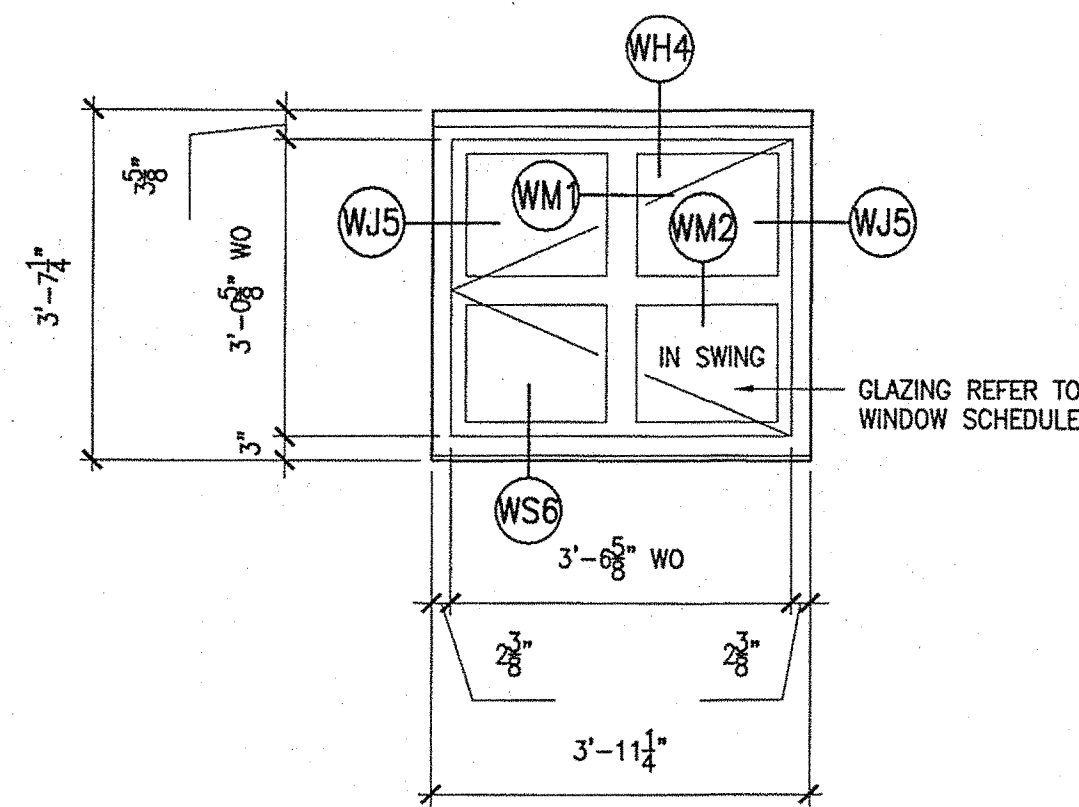
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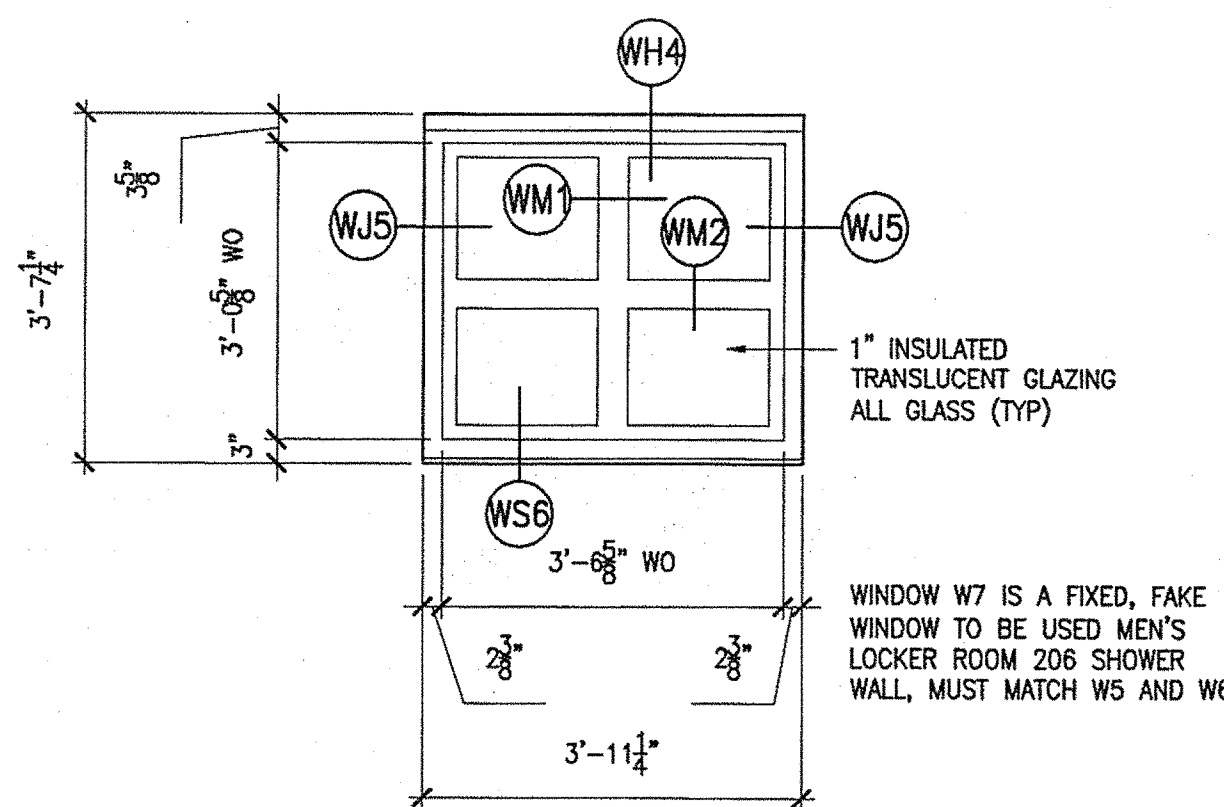
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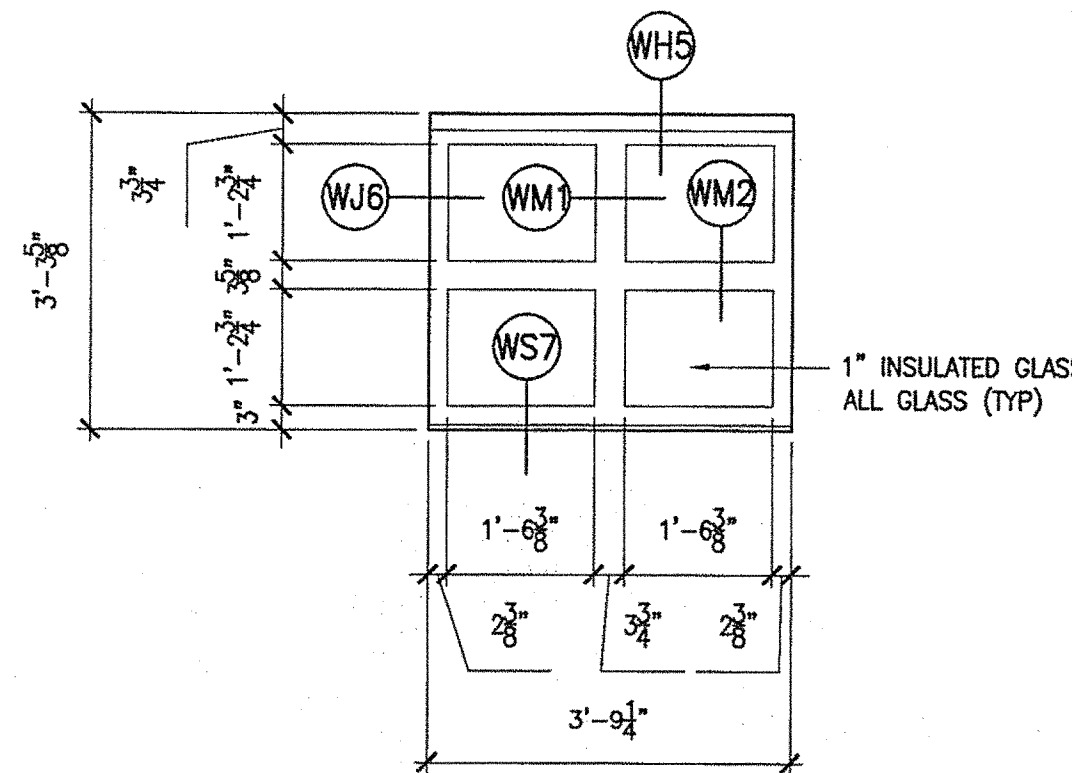
W4



W5 W6



W7



W8

LOUVER TYPES

TRANSPORTATION
AECOM USA, Inc.
66 Long Wharf
Boston, MA
T 617.723.1700 F 617.723.6866

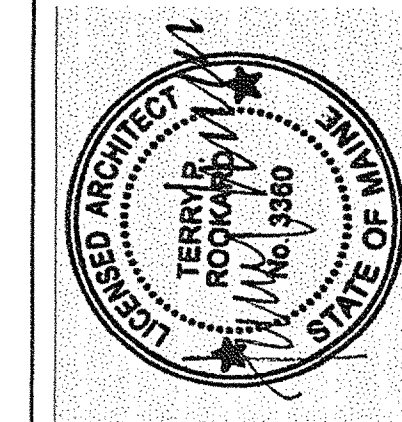
AECOM
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160 Veranda Street
Portland, Maine 04103
T: 207.231.4545
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Web: www.allied-eng.com
Allied Project No: 07010 Cod File: A8.05.dwg

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
WINDOW FRAME AND
LOUVER ELEVATIONS

PROJECT INFORMATION	
PROGRAM	-
PROJECT MANAGER	WPF
DESIGNER	TV
CONSULTANT	ALLIED ENGINEERING
PROJECT RESIDENT	-
CONTRACTOR	-
PROJECT COMPLETION DATE	-

SIGNATURE
TERRY P. ROOKARD
ARCH. LIN. NUMBER
3360
DATE
MAY 1, 2009



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
DATE
FED PIN NO:
PIN NO: 16123.50

SHEET NUMBER

A8.05

OF

Username: -

Division: -

Date: -

Filename: -

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F-1	4'-0" x 4'-0" x 1'-0"	(4) #4 E.W. - (BOTTOM)
F-2	5'-0" x 5'-0" x 1'-0"	(7) #4 @ 9"O.C. - E.W. - (BOTTOM)
F-3	6'-0" x 6'-0" x 1'-2"	(10) #4 @ 7"O.C. - E.W. - (BOTTOM)
F-4	3'-0" x 6'-5" x 1'-0"	#4 @ 12"O.C. - E.W. - (BOTTOM)
F-5	6'-8" x 6'-5" x 1'-0"	#4 @ 12"O.C. - E.W. - (BOTTOM)
F-6	9'-0" x 6'-5" x 1'-0"	#4 @ 12"O.C. - E.W. - (BOTTOM)
F-7	8'-0" x 6'-0" x 1'-4"	(5) #4 E.W. - (TOP); (7) #4 L.B. - (BOTTOM); (9) #4 S.B. - (BOTTOM)
F-8	8'-0" x 6'-0" x 1'-6"	#3 @ 18"O.C. - S.B. - (TOP); #4 @ 16"O.C. - L.B. - (TOP); #4 @ 11"O.C. - E.W. - (BOTTOM)
F-9	8'-0" x 8'-0" x 1'-4"	(5) #4 E.W. - (TOP); (7) #4 L.B. - (BOTTOM); (9) #4 S.B. - (BOTTOM)
F-10	8'-0" x 8'-0" x 2'-0"	#4 @ 11"O.C. - E.W. - (TOP); #4 @ 8"O.C. - E.W. - (BOTTOM)
F-11	3'-0" x 6'-0" x 1'-2"	(4)#4 L.B. - (TOP); #4 @ 18"O.C. - S.B. - (TOP); (4)#4 L.B. - (BOTTOM); #4 @ 9"O.C. - S.B. - (BOTTOM)

COLUMN SCHEDULE		
MARK	SIZE	
C-1	HSS6X8X3/8	
C-2	HSS6X6X5/8	
C-3	HSS8X8X3/8	
C-4	HSS8X8X1/2	
C-5	HSS8X6X3/8	
C-6	HSS4X4X1/4	
C-7	HSS6X4X3/8	

PIER SCHEDULE		
MARK	SIZE	REINFORCING
P-1	14 x 14	8-#5 VERT w/#3 TIES@ 12"O.C.
P-2	16 x 16	8-#6 VERT w/#3 TIES@ 12"O.C.
P-2A	16 x 16 (A)	SEE DETAIL B9/SB-200
P-3	18 x 18	8-#6 VERT w/#3 TIES@ 12"O.C.
P-3A	18 x 18 (A)	SEE DETAIL D9/SB-200
P-4	16 x 26	8-#6 VERT w/#3 TIES@ 12"O.C.

COLD-FORMED METAL HEADERS		
OPENING SIZE	MEMBERS (1)	SUPPORT STUDS
0'-0" TO 3'-6"	(3) 1000S162-54	(2) 600S162-43
3'-7" TO 6'-6"	(3) 1000S200-68	(3) 600S200-43
6'-7" TO 8'-6"	(3) 1200S200-97	(3) 600S200-68
NOTE: BOX MEMBERS TOP AND BOTTOM WITH 16GA. TRACK. FASTEN w/#10 SCREWS @ 8"O.C. TO EACH HEADER FLANGE TOP AND BOTTOM.		

1. WORK SHALL BE DONE IN COMPLIANCE WITH THE LATEST EDITION OF IBC-2003.
2. THE CONTRACTOR SHALL VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER, TO VERIFY EXISTING CONDITIONS, DIMENSIONS, LOCATION OF EXISTING UTILITIES, ETC. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES WITHOUT EXCEPTION.
3. WORK SHALL BE DONE IN AN ORDERLY AND PROFESSIONAL MANNER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE DONE BY SUBCONTRACTORS, LOCAL AUTHORITIES, STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY HAVE JURISDICTION OVER THIS PROJECT.
4. UTILITY EXTENSIONS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES OR AS INDICATED BY THE SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY INCIDENTAL REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION; SUCH REPAIRS SHALL MATCH EXISTING TO THE OWNER'S SATISFACTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ITEMS/MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TEMPORARY SHORING, PRECAUTIONS DURING BUILDING OPERATIONS, PROTECTION OF PUBLIC AND WORKERS, REMOVAL OF WASTE MATERIAL, PROTECTION OF ADJACENT PROPERTY, PROTECTION OF HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, AND SANITARY PROVISIONS OF EMPLOYEES AND SUBCONTRACTORS AS REQUIRED FOR THE DURATION OF THE CONTRACT.

G4 GENERAL NOTES

1. COLD FORMED METAL FRAMING: GALVANIZED STEEL ASTM A653/A653M, GRADE 33 FOR TRACKS (F_y=33 KSI) G60 COATING; GRADE 50 FOR STUDS/JOISTS (F_y=50 KSI) G60 COATING
2. ROOF RAFTERS AND MEZZANINE FLOOR JOIST SIZES SHOWN ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. METAL FRAMING DESIGN ENGINEER SHALL CONFIRM AND SIZE MEMBERS SHOWN.
3. SECTION PROPERTIES FOR WALL STUDS SHALL BE AS REQUIRED BY STRUCTURAL PERFORMANCE. THE FOLLOWING MINIMUM SHALL BE PROVIDED:
A- BEARING WALL STUDS: 6-INCH X 18GA. (1 5/8-INCH FLANGES) AT OFFICE SPACE
B- EXTERIOR WALL STUDS: 8-INCH X 18GA. (2-INCH FLANGES) AT MAINTENANCE, WASH AND STORAGE AREAS
C- FLOOR JOISTS: 12-INCHES X 12GA. (2-INCH FLANGES) AT SECOND FLOOR AND MEZZANINES
D- ROOF RAFTERS: 12-INCHES X 14GA. (2-INCH FLANGES) AT OFFICE ROOF
4. COLD FORMED METAL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF AISI'S DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS FOR THE REACTIONS REQUIRED. COLD FORMED CURTAIN WALLS SHALL BE DESIGNED FOR COMPONENT WIND PRESSURE FOR THE VELOCITY AND IMPORTANCE FACTORS INDICATED.
5. MAXIMUM PERMITTED WIND LOAD DEFLECTION FOR CURTAIN WALLS SHALL BE LIMITED TO THE FOLLOWING:
A- L/600 FOR MASONRY VENEER APPLICATIONS
B- L/240 FOR OTHER WALL FINISHES
6. CALCULATIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE AND SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWING SUBMITTALS PRIOR TO CONSTRUCTION.

E4 COLD FORMED METAL FRAMING NOTES

1. PROVIDE AND INSTALL MASONRY LINTELS FOR MASONRY WALL OPENINGS UNLESS INDICATED OTHERWISE ON PLANS. PROVIDE MASONRY LINTELS OF SIZE AND REINFORCEMENT AS FOLLOWS:
A - OPENINGS UP TO 3'-11" (UNLESS NOTED OTHERWISE): PROVIDE 8-INCH HIGH C.M.U. LINTEL W/ (2) #4 BARS IN 6-INCH WIDE UNITS (2) #4 BARS IN 8-INCH WIDE UNITS (3) #4 BARS IN 12-INCH WIDE UNITS
B - OPENINGS 4'-0" TO 8'-0" (UNLESS OTHERWISE NOTED): PROVIDE 16-INCH HIGH C.M.U. LINTEL W/ (2) #6 BARS IN 6-INCH WIDE UNITS (2) #6 BARS IN 8-INCH WIDE UNITS (3) #6 BARS IN 12-INCH WIDE UNITS
2. INSTALL FOR OPENINGS AND PENETRATIONS IN BRICK WALLS UP TO 3'-11" WIDE (UNLESS OTHERWISE NOTED) 4"x3 1/2"x 1/4" STEEL ANGLE LINTEL. FOR OPENINGS AND PENETRATIONS BETWEEN 4'-0" AND 8'-0" WIDE (UNLESS OTHERWISE NOTED) (1) 6"x3 1/2"x 1/4" STEEL ANGLE LINTEL.
3. CONCRETE MASONRY AND BRICK LINTELS SHALL HAVE 12-INCH (MIN) END BEARING UNLESS OTHERWISE NOTED.
4. CONCRETE MASONRY BLOCK WALLS WITH VERTICAL REINFORCING SHALL HAVE CORES FILLED WITH 3000 PSI CONCRETE. INSTALLATION OF REINFORCEMENT SHALL BE CONTINUOUS AND RUN UNOBSTRUCTED BY BAR JOIST SEAT/BEARING PLATE ARRANGEMENTS. HORIZONTAL REINFORCEMENT SHALL BE PROVIDED @ 16-INCHES ON-CENTER VERTICALLY.
5. PROVIDE VERTICAL CONTROL, EXPANSION OR CONTRACTION JOINTS SPACED AT 15'-0" ON-CENTER (MAX) AND LOCATE JOINTS AT EACH SIDE OF DOOR OPENINGS WHERE POSSIBLE FOR INTERIOR MASONRY WALLS. CONTROL JOINTS FOR EXTERIOR MASONRY WALLS SHALL BE AS INDICATED IN THIS NOTE OR AS SHOWN ON EXTERIOR ELEVATIONS.
6. OMIT REBAR/GROUTING IN MASONRY CELLS WHICH SHALL RECEIVE ROOF DRAIN LEADERS, CONDUITS, ETC. REQUIRED REINFORCEMENT SHALL BE INSTALLED IN THE ADJACENT CELL AND SHALL BE GROUTED SOLID.
7. HOLLOW CONCRETE BLOCK UNITS: GRADE N, 1000 PSI, MINIMUM COMPRESSIVE STRENGTH. WALL DESIGN STRENGTH, F'_m = 1500 psi.
8. LAY UNITS IN RUNNING BOND - CORNERS SHALL HAVE A STANDARD BOND BY OVERLAPPING UNITS.
9. MORTAR: TYPE M.
10. GROUT: (3000) PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH. ROD GROUT IMMEDIATELY AFTER POURING AND AGAIN APPROX. 5 MINUTES LATER.
11. MAXIMUM GROUT LIFT WITHOUT CLEANOUTS SHALL NOT EXCEED 4'-0" IN BLOCK WALLS.
12. TIE VERTICAL REINFORCING AT EACH END AND AT 8'-0" MAXIMUM VERTICAL SPACING USING SINGLE WIRE AND LOOP TYPE TIES AS MANUFACTURED BY A.A. WIRE PRODUCTS COMPANY OR APPROVED EQUAL
13. IN 6-INCH AND 8-INCH WALLS, PROVIDE VERTICAL REINFORCING IN CENTER OF GROUT, AT CENTER OF WALL. CONTINUOUS FULL HEIGHT OF WALL AS FOLLOWS:
A - (1) #5 VERTICAL AT CORNERS, INTERSECTIONS, WALL ENDS, JAMBS AND EACH SIDE OF EXPANSION OR CONTROL JOINTS.
B - (1) #5 VERTICAL AT 48-INCHES ON-CENTER TYPICAL. (UNLESS NOTED ON PLAN)
C - (1) #5 VERTICAL IN EACH CORE WITHIN 12-INCHES OF WALL CORNERS.
14. PROVIDE (2) #5 BARS CONTINUOUS IN 8-INCH BOND BEAM AT EACH FLOOR AND ROOF DECK LINE AND 12- FEET ON CENTER MAXIMUM VERTICAL SPACING IN MASONRY WALLS.
15. PLACE BOND BEAM REINFORCING CONTINUOUS THROUGH EXPANSION AND CONTROL JOINTS, WRAPPING BARS WITH 1/8-INCH THICK BOND BREAKING TAPE 24-INCHES BOTH SIDES OF JOINT. DO NOT SPLICE BOND BEAM REINFORCING WITHIN 6'-0" OF AN EXPANSION OR CONTROL JOINT.
16. PROVIDE CONTINUOUS WIRE LATHE GROUT BARRIERS AS REQUIRED UNDER FIRST COURSE OF GROUTED (3000 PSI CONC.) CELLS.
17. PROVIDE LADDER TYPE #9 JOINT REINFORCING AT 16-INCHES VERTICAL SPACING IN WALLS.
18. WET MASONRY WALLS THOROUGHLY FOR (3) CONSECUTIVE DAYS IMMEDIATELY AFTER PLACEMENT IF TEMPERATURES ARE/WILL BE ABOVE 80°F DURING THE DAY.
19. NO EXPANSION BOLTS SHALL BE ALLOWED IN MASONRY WALLS. (CHEMICAL ANCHORS ONLY)
20. MASONRY LAID IN OUTSIDE AIR TEMPERATURES BELOW 40°F SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF THE "IMAWC RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY".
21. MASONRY BLOCK CORES BELOW FINISH FLOOR SHALL BE FILLED SOLID WITH CONCRETE.

1. THE STRUCTURAL STEEL SUPPLIER SHALL COORDINATE WITH THE BAR JOIST SUPPLIER, LOCATION, PLATE SIZES, AND SLOTS REQUIRED FOR MOMENT CONNECTED JOISTS AND TIE JOISTS. ALSO FOR THE LOCATION AND SIZES OF MISCELLANEOUS BRIDGING CLIP ANGLES REQUIRED FOR PROPER JOIST INSTALLATION. (CONTRACTOR SHALL COORDINATE EFFORT BETWEEN SUPPLIERS).
2. BEARING PLATES SHALL BE 8"x12"x0'-8" UNLESS OTHERWISE NOTED AND SHALL BE ANCHORED WITH STANDARD 3/8-INCH ANCHORS.
3. PORTIONS OF STEEL FRAMING AND BAR JOISTS TO RECEIVE FIREPROOFING SHALL BE SHIPPED UNPRIMED AND UNPAINTED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
4. **MINIMUM LOADING REQUIREMENTS:**
A - ROOF LOADS: (EXCEPT AT DRIFTING SNOW LOCATIONS AND THOSE LISTED BELOW)
LIVE (SNOW) LOAD: 50.0 P.S.F. (IMPORTANCE FACTOR = 1.0; EXPOSURE FACTOR = 1.0)
DEAD LOAD: 18.0 P.S.F.
B - FLOOR LOADS:
STORAGE MEZZANINE: LIVE LOAD: 100.0 P.S.F. DEAD LOAD: 50.0 P.S.F.
SECOND FLOOR LEVEL: LIVE LOAD: 70.0 P.S.F. DEAD LOAD: 50.0 P.S.F.
WIND LOADS:
A - FACTORS:
BASIC WIND SPEED: 100 MPH
EXPOSURE CATEGORY: "B"
IMPORTANCE FACTOR: 1.0
BUILDING HEIGHT: 30' (+/-)
WIND DESIGN PRESSURE: MAIN WIND FORCE RESISTING SYSTEM = 16 P.S.F. (MAXIMUM PRESSURE)
B - COMPONENT AND CLADDING WIND DESIGN LOADS:
WALLS: FIELD: 16 P.S.F., CORNERS: 26 P.S.F.
ROOF UPLIFT: FIELD: 16 P.S.F., PERIMETER (8' WIDE): 30 P.S.F., CORNERS (8'x8'): 45 P.S.F.
D - SEISMIC COEFFICIENTS:
a) RESPONSE SPECTRAL ACC. (0.2 sec.) S_s = 0.243g
b) RESPONSE SPECTRAL ACC. (1.0 sec.) S₁ = 0.084g
c) SITE COEFFICIENTS: F_a = 1.60; F_v = 2.40
d) BUILDING CATEGORY: II
e) SEISMIC DESIGN CATEGORY FOR 0.1 AND 1.0 SECONDS: C
5. **STRUCTURAL/SEISMIC RESISTING SYSTEM:**
TYPICAL -
BUILDING FRAME SYSTEM
A - LIGHT FRAMED WALLS WITH SHEAR PANELS - ALL OTHER MATERIALS:
a) RESPONSE MODIFICATION FACTOR (R) = 2
b) DEFLECTION AMPLIFICATION FACTOR (C2) = 2
B - ORDINARY STEEL MOMENT FRAMES:
a) RESPONSE MODIFICATION FACTOR (R) = 3 1/2
b) DEFLECTION AMPLIFICATION FACTOR (C2) = 3
6. STRUCTURAL STEEL BEAMS, COLUMNS SHALL CONFORM TO ASTM A992, F_y=50ksi; STEEL TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE "B", F_y=46ksi; MISCELLANEOUS PLATES, SHAPES ANGLES ETC. SHALL CONFORM TO ASTM A36 F_y36ksi.
7. STEEL JOIST SHALL CONFORM TO THE LATEST S.J.I. STANDARDS.
8. STRUCTURAL WOOD TO CONFORM TO THE LATEST NDS STANDARDS.
9. PLYWOOD TO CONFORM TO THE LATEST PDS STANDARDS.
10. SEE ARCHITECTURAL WALL SECTIONS AND DETAILS FOR MISCELLANEOUS STEEL.
11. STEEL BEAMS AND BAR JOISTS RESTING ON MASONRY WALLS SHALL HAVE BEARING PLATES AND (3) COURSES OF FILLED BLOCK UNDERNEATH.
12. REFERENCE ROOF OPENING STANDARD DETAILS SHEET S-000 FOR ROOF PENETRATION SUPPORT CONDITIONS.
13. STEEL DECKING SHALL BE AS NOTED ON PLANS AND IN SPECIFICATIONS.
14. LOADS ARE UNFACTORED AND ALLOWABLE STRESS INCREASE OF 1/3 MAY BE USED IN ACCORDANCE WITH THE IBC2003.
15. STEEL BEAMS (INCLUDING HEADERS) SUPPORTING CONCRETE MASONRY WALLS SHALL HAVE 3/4-INCH DIAMETER SHEAR STUDS WELDED TO TOP OF BEAM AT 16-INCHES ON-CENTER. PROVIDE 1/2-INCH DIAMETER BOLTS AT 24-INCHES ON-CENTER SPACING STAGGERED WHERE 2x WOOD PLATES ARE REQUIRED ON STRUCTURAL STEEL.
16. BASE PLATE ANCHOR BOLTS IN NEW CONSTRUCTION SHALL BE:
A - ANCHOR RODS: 3/4" Ø ASTM F1554, UNO
B - NUTS: ASTM A563, GRADE A
C - WASHERS: ASTM F844
17. SILL PLATES SHALL BE FASTENED TO FOUNDATION WITH 1/2-INCH DIAMETER ANCHOR BOLTS AT 48-INCHES ON-CENTER UNLESS OTHERWISE NOTED. (COORDINATE THIS NOTE WITH ARCHITECTURAL DRAWINGS).
18. OPENINGS IN WOOD-FRAMED WALLS SHALL HAVE A MINIMUM OF (2) JACK STUDS ON EACH END, UNLESS OTHERWISE NOTED.
19. STEEL TUBE, PIPE, OR STRUCTURAL STEEL COLUMNS SUPPORTED BY A STEEL BEAM SHALL HAVE BASE PLATES WELDED TO THE BEAM ON ALL SIDES.
20. STEEL ROOF DECK AND FASTENING REQUIREMENTS SHALL BE AS SPECIFIED IN DIVISION 5 OF THE SPECIFICATIONS, UNLESS NOTED ABOVE.
21. SPECIAL INSPECTIONS: AN INDEPENDENT INSPECTIONS PROGRAM AND SCHEDULE SHALL BE ARRANGED BY THE BUILDING OWNER AND THE STRUCTURAL ENGINEER OF RECORD.
22. A QUALIFIED PERSON APPROVED BY THE BUILDING OFFICIALS SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC2003 AND AS DEFINED. SPECIAL INSPECTOR SHALL OBSERVE WORK FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.
23. INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND IF NOT CORRECTED, SHALL BE REPORTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER.
24. THE FOLLOWING TYPES OF WORK SHALL RECEIVE SPECIAL INSPECTION OVERSITE: INSTALLATION OF HIGH STRENGTH BOLTS, WELDING, STRUCTURAL FRAME AND DETAILS, INSTALLATION OF REINFORCING STEEL, CONCRETE PLACEMENT, STRUCTURAL FILL PLACEMENT.
25. SITE PREPARATION FOR THE FOUNDATION SHALL BE IN ACCORDANCE WITH THE "SUBSURFACE INVESTIGATION AND GEOTECHNICAL EVALUATION REPORT", PREPARED FOR THIS PROJECT BY FESSENDEN GEO-ENVIRONMENTAL SERVICES CONSTRUCTION MATERIAL TESTING, DATED FEBRUARY 17, 2008. REFERENCE SAME FOR UNDERSLAB AND PERIMETER DRAINAGE PIPING REQUIREMENTS.
26. STRUCTURAL STEEL JOISTS
A - JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
B - PROVIDE CONTINUOUS BAR JOIST BOTTOM CHORD "UPLIFT BEARING" AT THE FIRST PANEL POINT FROM EACH END AND SIZED AS REQUIRED TO SATISFY THE NET WIND UPLIFT REQUIREMENTS LISTED IN THE MINIMUM LOAD REQUIREMENTS.
C - JOIST MANUFACTURER SHALL DESIGN ROOF JOISTS FOR A NET WIND UPLIFT OF -18 PSF. ALLOWABLE STRESSES SHALL NOT BE INCREASED BY 1/3 ALLOWABLE STRESS FACTOR FOR WIND LOADING.
D - K-SERIES AND KCS-SERIES JOISTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MAINE AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE CONSIDERED AN INTEGRAL PART OF THE BAR JOIST SHOP SUBMITTAL. FINAL APPROVAL OF JOIST SHOPS ARE CONTINGENT UPON REVIEW AND ACCEPTANCE OF THE JOIST CALCULATIONS.
E - WELD BAR JOIST TO BEAMS OR BEARING PLATES WITH (2) FILLET WELDS AT EACH END. SIZE AND LENGTH AS INDICATED ON THE STRUCTURAL DRAWINGS OR AS REQUIRED BY THE STEEL JOIST INSTITUTE.

E1 SCHEDULES

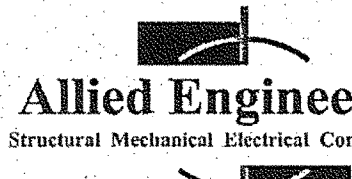
1. CONCRETE (EXCEPT EXTERIOR SLABS ON GRADE, SIDEWALKS, AND STAIRS) SHALL BE 3000 PSI AT (28) DAYS. SLUMP SHALL NOT EXCEED 4-INCHES. CONCRETE EXTERIOR SLABS ON GRADE SIDEWALKS, AND STAIRS SHALL BE 4000 PSI AT (28) DAYS. SLUMP SHALL NOT EXCEED 4-INCHES.
2. 4-INCH SLABS ON GRADE SHALL BE REINFORCED WITH 6X6XW2.9XW2.9 WWF UNLESS OTHERWISE NOTED. 6-INCH SLABS ON GRADE SHALL BE REINFORCED WITH #4 BARS AT 18-INCHES ON-CENTER UNLESS OTHERWISE NOTED.
3. FOUNDATION WALL CONTROL JOINTS SHALL BE PLACED AS SHOWN ON THE BUILDING ELEVATIONS (EXTERIOR) AND AT A MAXIMUM SPACING OF 15'-0" (INTERIOR).
4. FLOOR SLAB CONTROL JOINTS (INCLUDING ELEVATED SLAB) SHALL BE PLACED AS SHOWN ON THE FOUNDATION PLAN (SLAB ON GRADE) OR AS DIRECTED BY THE ENGINEER (ELEVATED SLABS). UNLESS OTHERWISE NOTED, CONTROL JOINTS WILL BE SPACED NOT TO EXCEED 12'-0" ON-CENTER IN BOTH DIRECTIONS AND SHALL BE FILLED WITH SEALANT AT THE COMPLETION OF THE PROJECT FOR BOTH ON-GRADE AND ELEVATED SLABS.
5. CONTRACTOR WILL CHECK WITH EACH TRADE TO ASSURE CORRECT LOCATION, SIZE, LINE AND ELEVATION OF SLEEVES, BOND-OUTS, ETC. REQUIRED IN CONCRETE FLOORS AND WALLS.
6. INTERSECTING CONCRETE WALLS SHALL BE TIED WITH #4 L-BARS 3'-0" LONG (BENT 18-INCHES - 18-INCHES), SPACED AT 12-INCHES ON-CENTER, OUTSIDE FACE ONLY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR DRAIN SETTING FOR ELEVATION AND PLUMBNESS TO ASSURE COMPLETE AREA DRAINAGE.
8. EXPOSED CONCRETE SHALL BE NEATLY FINISH-RUBBED.
9. FOOTINGS SHALL BEAR ON VIRGIN SOIL OR STRUCTURAL BACKFILL COMPACTED TO A UNIFORM 95-PERCENT STANDARD DENSITY.
10. MECHANICAL EQUIPMENT RESTING ON THE CONCRETE FLOOR SLAB SHALL HAVE A 4-INCH HIGH CONCRETE PAD UNDERNEATH EXTENDING A MINIMUM OF 6-INCHES BEYOND UNIT EDGE (EACH DIRECTION), REINFORCED WITH #3 BARS AT 18-INCHES ON-CENTER EACH WAY.
11. STRUCTURAL STEEL BELOW FINISH FLOOR SHALL RECEIVE (2) COATS OF BITUMINOUS MASTIC.
12. ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED. CONCRETE SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM.
13. PROVIDE IN SLABS ON GRADE (2) BARS 4'-0" LONG AT EACH REENTRANT CORNER AND BOTH SIDES OF DOOR OPENING.
14. FOUNDATION WALL REINFORCING WILL BE ADJUSTED AS REQUIRED NOT TO INTERFERE WITH BASE PLATE ANCHOR BOLTS.
15. REFER TO ACI 318 (LATEST EDITION) FOR MINIMUM CONCRETE COVER FOR REINFORCING STEEL.
16. UNLESS OTHERWISE NOTED, REINFORCING LAP SPLICES SHALL BE ACI CLASS B SPLICES USING THE FOLLOWING LAP LENGTHS:

BAR SIZE	3	4	5	6	7	8	9	10	11
LAP IN.	14	19	23	28	36	43	49	62	74
17. COORDINATE SLAB DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
18. DRILLED-IN ANCHOR BOLTS OR REBAR DOWELS SHALL BE INSTALLED AS FOLLOWS:
A - LOCATE ANCHOR BOLTS OR DOWELS TO AVOID CUTTING EXISTING REBAR.
B - DEPTH IS BASED ON A CLEAN HOLE WITH ROUGH SIDES. ROTARY PERCUSSION EQUIPMENT AND COURSE ROCK CUTTING CHISELS ARE RECOMMENDED. DIAMOND CORE BITS SHOULD BE AVOIDED AS EMBEDMENT LENGTHS MAY NEED TO BE INCREASED. HOLE SIZE TO BE PER MANUFACTURER'S RECOMMENDATIONS.
C - CLEAN HOLES WITH COMPRESSED AIR OR VACUUM, REMOVE ANY FREE-STANDING WATER AND ALLOW HOLE TO DRY.
D - GROUT ANCHOR BOLTS OR DOWELS WITH HILTI HIT HY-150 ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. (HILTI HEA ADHESIVE CAPSULE MAY BE SUBSTITUTED FOR THE HILTI HIT HY-150 ADHESIVE.)

A1 FOUNDATION NOTES

A4 MASONRY NOTES

A8 STRUCTURAL NOTES



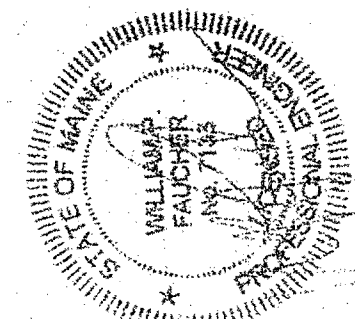
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DEPARTMENT OF TRANSPORTATION




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7133
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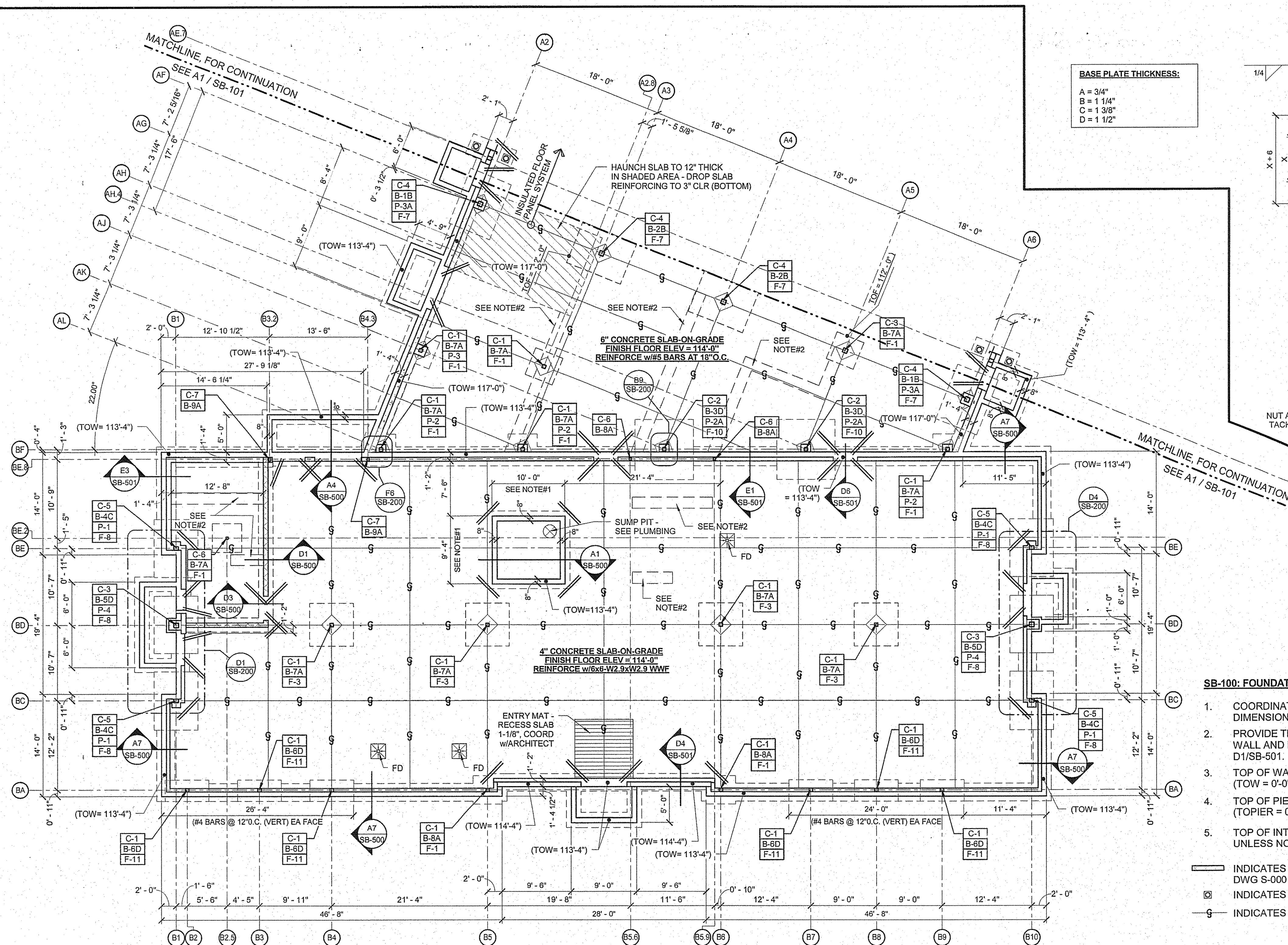
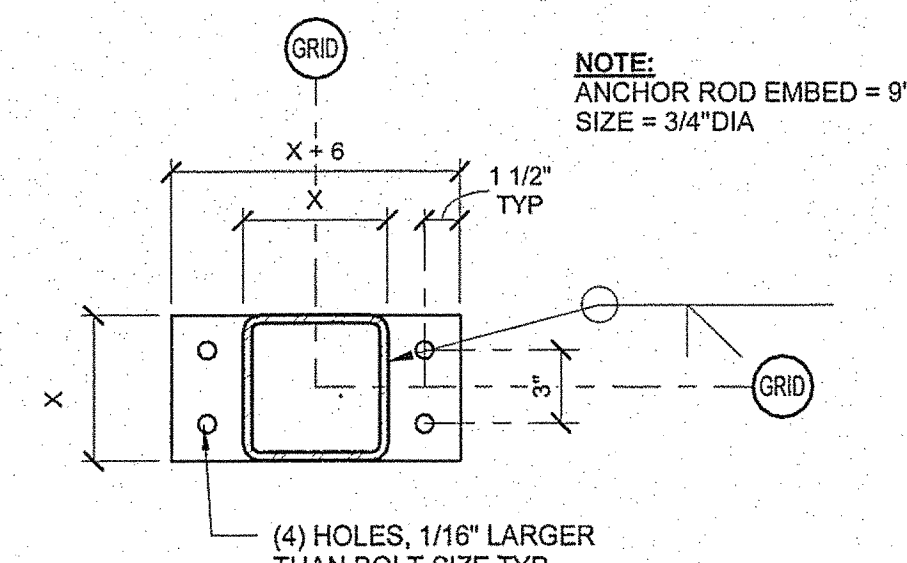
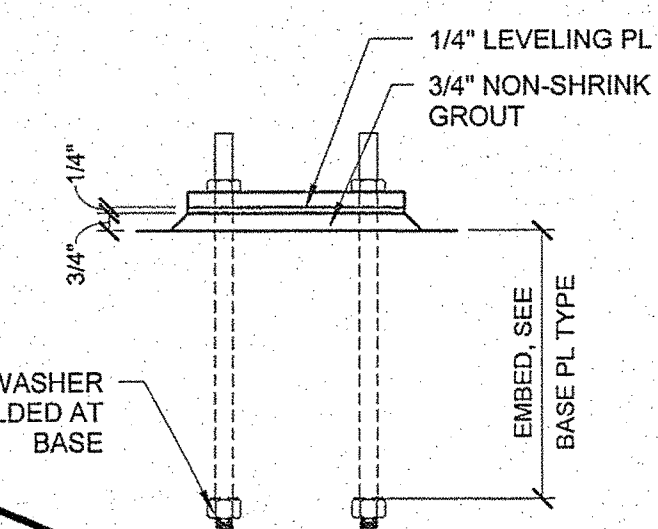
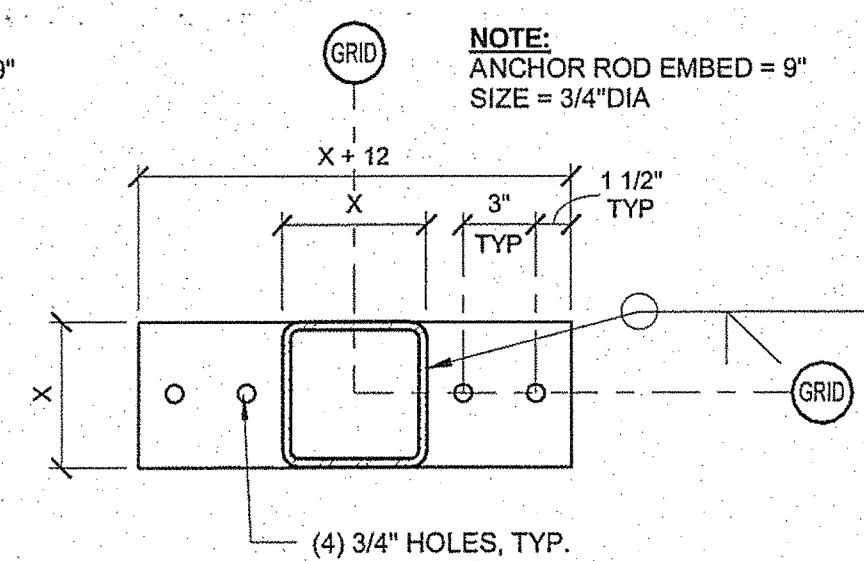
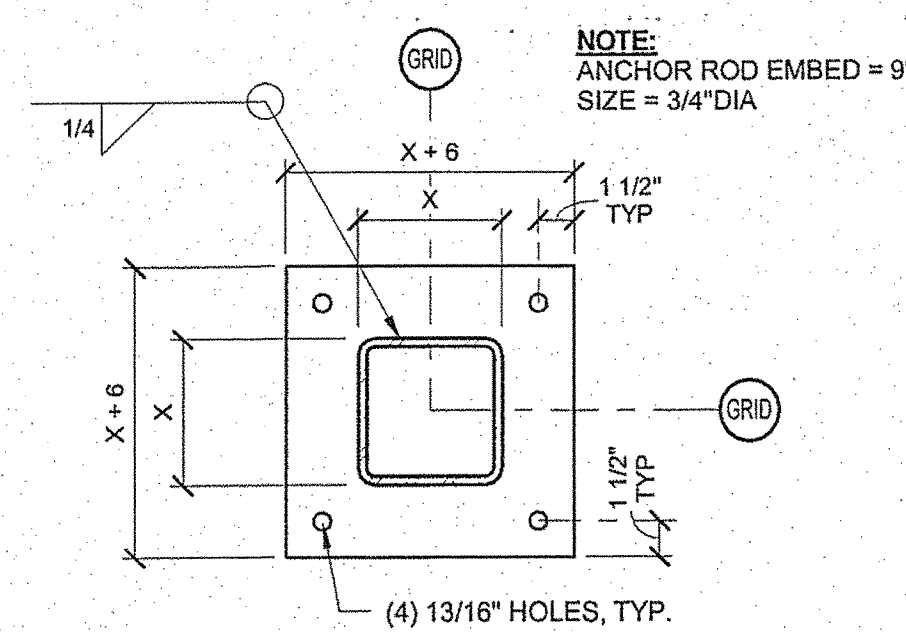
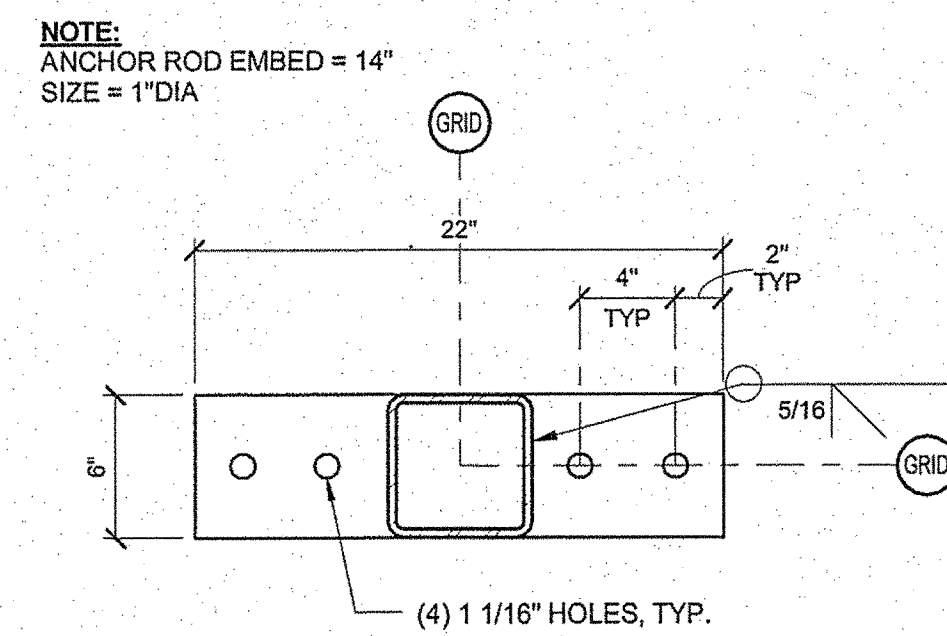
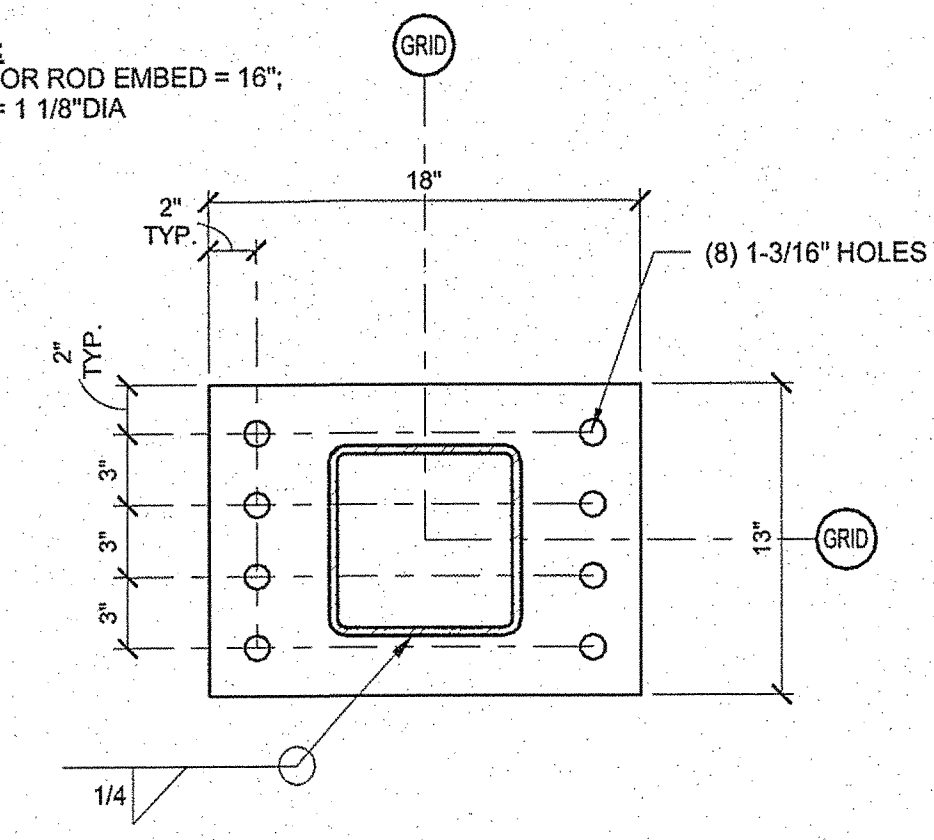
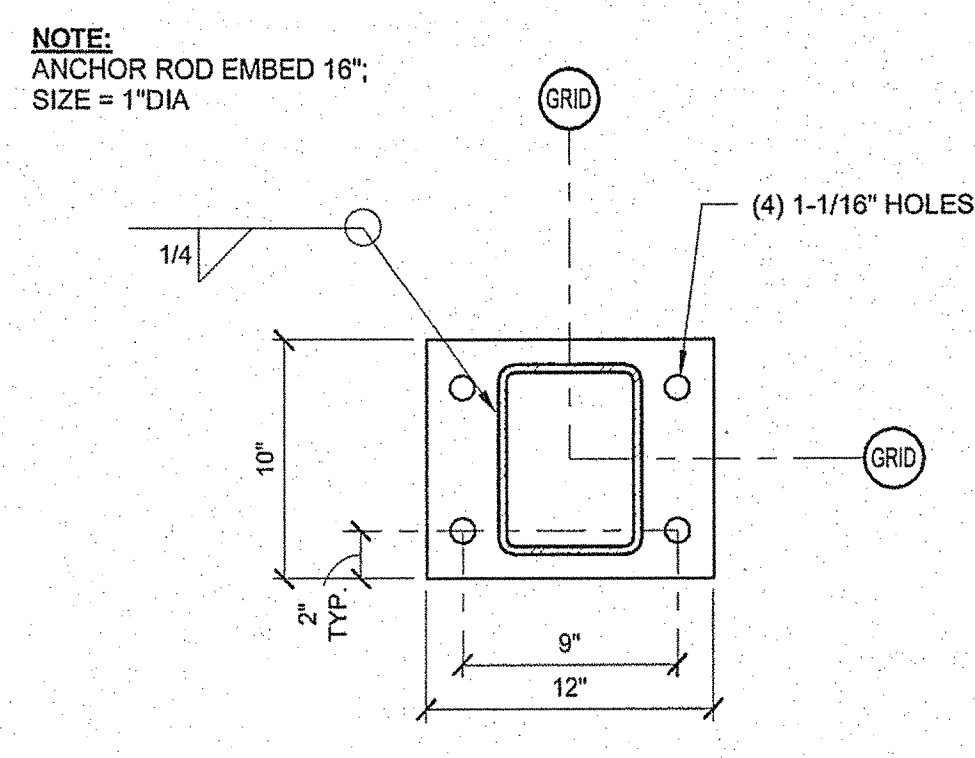
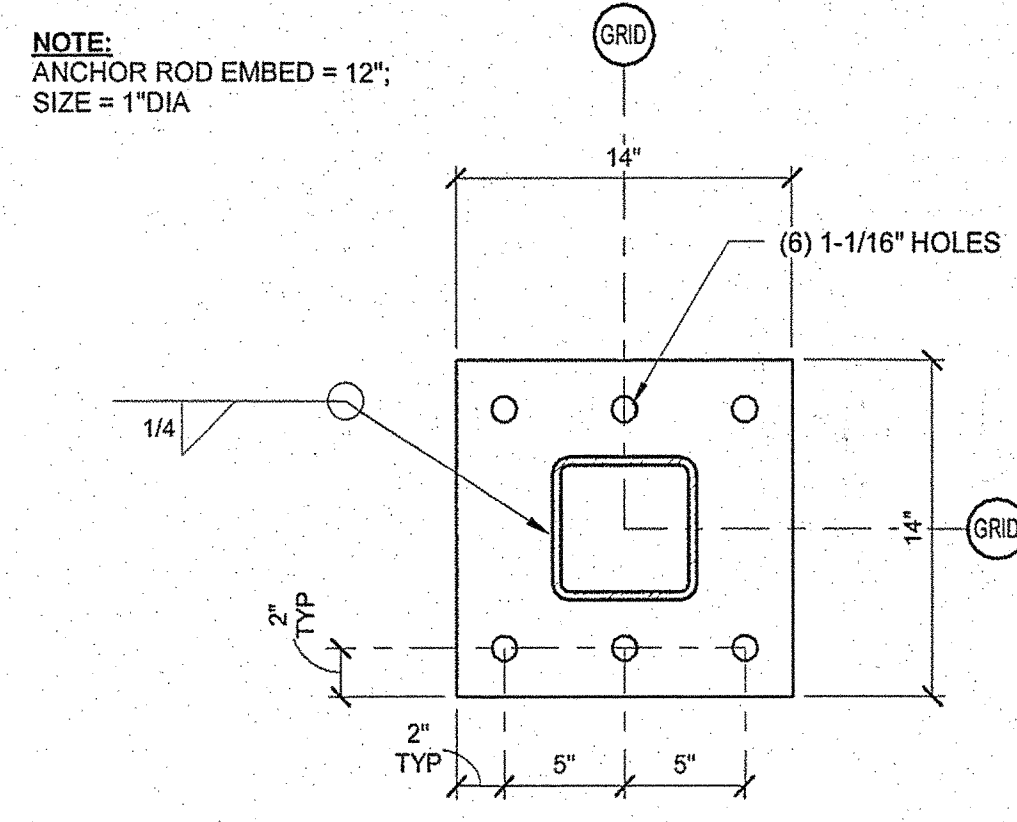
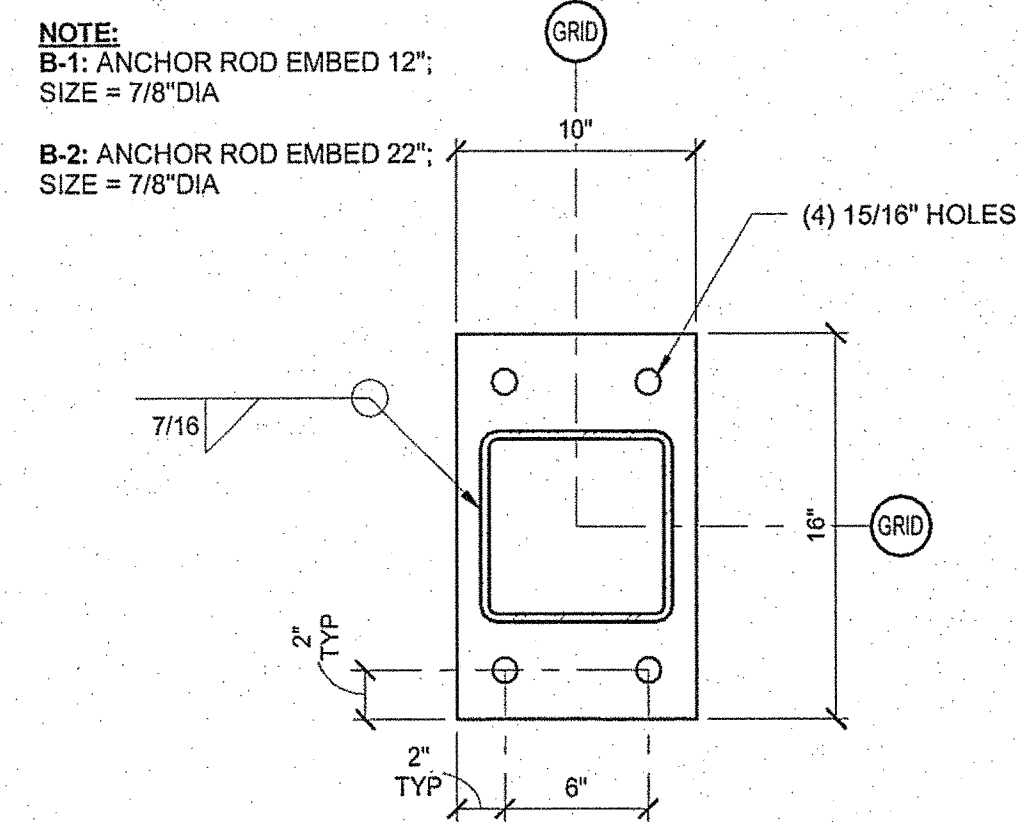
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PROGRAM -
PROJECT MANAGER WFF
DESIGNER -
CONSULTANT -
PROJECT RESIDENT -
CONTRACTOR -
PROJECT COMPLETION DATE -

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
STRUCTURAL - GENERAL
NOTES

SHEET NUMBER

S-000

SHEET NUMBER	MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		PROJECT INFORMATION		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
	STRUCTURAL - TYPICAL DETAILS		PROGRAM - PROJECT MANAGER WPF DESIGNER - CONSULTANT - PROJECT RESIDENT - CONTRACTOR -	SIGNATURE 7133 P.E. NUMBER 01 MAY, 2009 DATE		
S-001			PROJECT COMPLETION DATE -	FED PIN NO: PIN NO: 16123.50		



BASE PLATE THICKNESS:




A = 3/4"
B = 1 1/4"
C = 1 3/8"
D = 1 1/2"

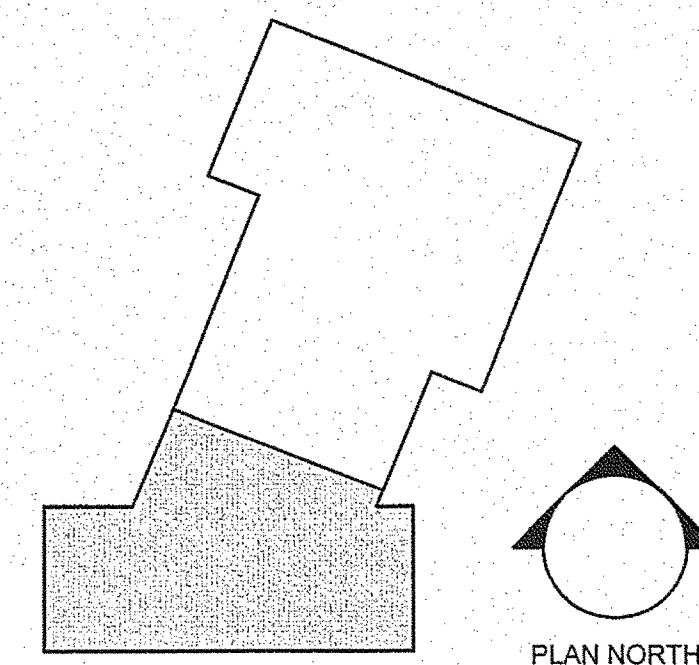
C8	BASE PLATE TYPES
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 $1\frac{1}{2}'' = 1'-0''$


SB-100: FOUNDATION PLAN NOTES:

1. COORDINATE FINAL ELEVATOR PIT WALL DIMENSIONS WITH ELEVATOR MANUFACTURER.
2. PROVIDE THICKENED SLAB UNDER BEARING WALL AND BASE OF STAIR RUN - SEE DETAIL D1/SB-501.
3. TOP OF WALL ELEV = 114'-0" UNLESS NOTED BY (TOW = 0'-0")
4. TOP OF PIER ELEV = 112'-8" UNLESS NOTED BY (TOPIER = 0'-0")
5. TOP OF INTERIOR SPAND REL FOOTING ELEV = 112'-8" UNLESS NOTED BY TOP = 0'-0"

 INDICATES 8" CMU WALL. REINFORCING SEE NOTES
 DWG S-000
 INDICATES 8" DIA. BOLLARD. SEE DETAIL A1/SB-501
 INDICATES CONTROL JOINT IN SLAB



A9	KEY PLAN
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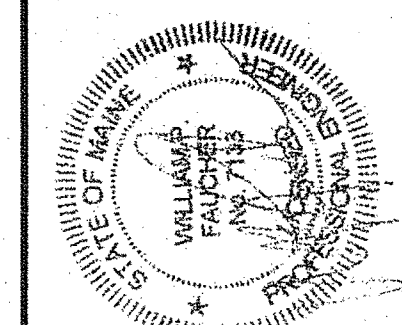
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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE _____

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PIN NO: 1612350



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7133

P.E. NUMBER
01 MAY, 2009

DATE _____

PROJECT INFORMATION

1000000

WPF

ALLIED

100

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY

BUS MAINTENANCE FACILITY

STRUCTURAL PART PLAN -

FOUNDATION

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SHEET NUMBER 4

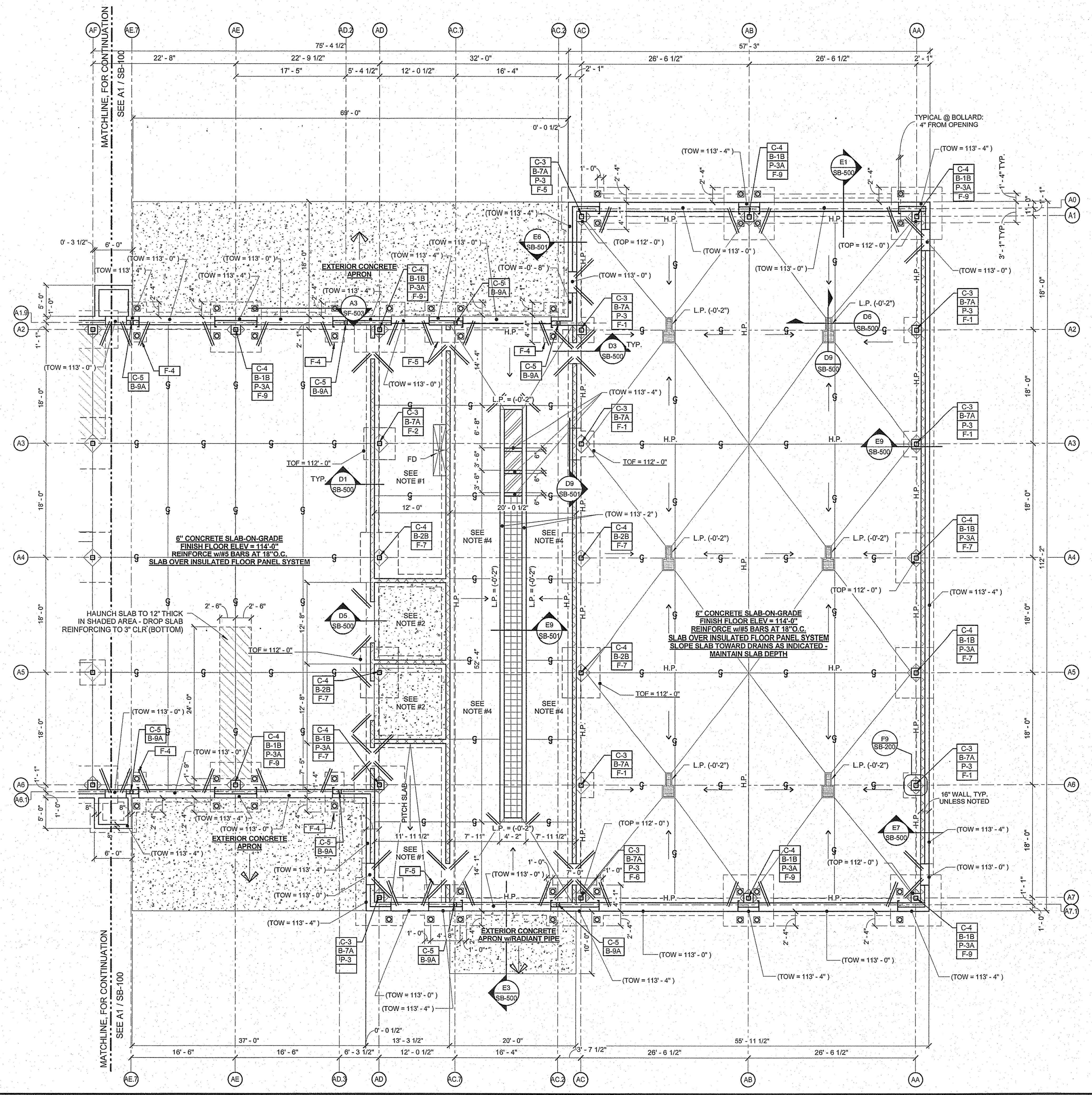
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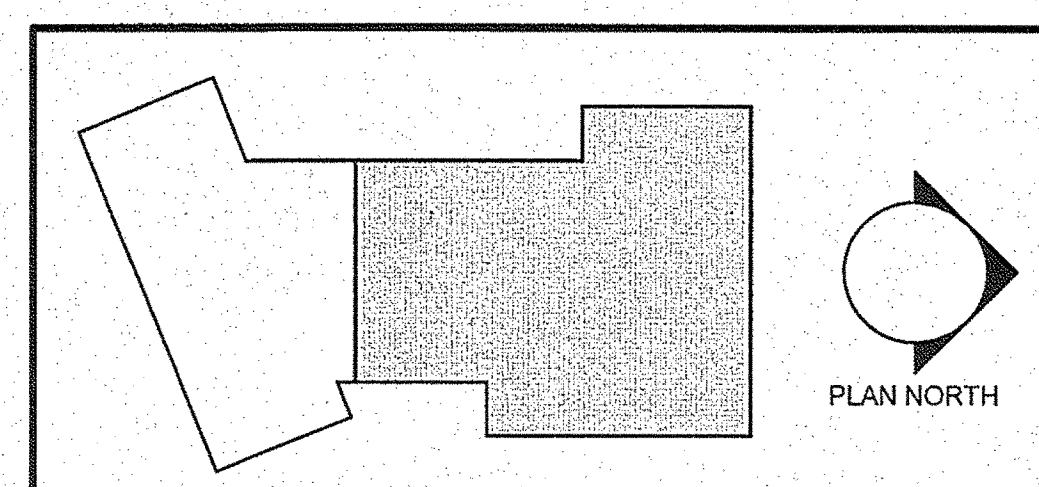
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SB-101: FOUNDATION PLAN NOTES:

- NO RADIANT PIPING BELOW SLAB IN THIS AREA. NO INSULATED FLOOR PANEL IN THIS AREA. SEE PLAN FOR LOCATION
- NO RADIANT PIPING BELOW SLAB IN THIS AREA. NO INSULATED FLOOR PANEL IN THIS AREA. DEPRESS SLAB 2". SEE PLAN FOR LOCATION
- H.P. = HIGH POINT IN SLAB. HIGH POINT ELEVATION SHALL BE 114'-0". L.P. = LOW POINT IN SLAB. SEE PLAN FOR ELEVATION MARKED L.P. (-X'-X") FROM H.P.
- 6" CONCRETE SLAB-ON-GRADE, FINISH FLOOR ELEV = 114'-0". REINFORCE w/#5 BARS AT 18" O.C. SLAB OVER INSULATED FLOOR PANEL SYSTEM SLOPE SLAB TOWARD WASH PIT AS INDICATED - MAINTAIN SLAB DEPTH - SEE PLAN FOR LOCATION
- TOP OF WALL ELEV = 117'-0" UNLESS NOTED BY (TOW = 0'-0")
- TOP OF PIER ELEV = 112'-8" UNLESS NOTED BY (TOPIER = 0'-0")
- TOP OF INTERIOR SPREAD FOOTING ELEV = 112'-8" UNLESS NOTED BY (TOF = 0'-0")

- INDICATES 8" CMU WALL. REINFORCING SEE NOTES DWG S-000
- INDICATES 8" DIA. BOLLARD. SEE DETAIL A1/SB-501
- INDICATES DIAMOND PLATE STEEL (GALV.). THICKNESS = 1/2"
- INDICATES REMOVABLE METAL GRATING (GALV.). SIZE = 2" THICKNESS = 3/8"
- INDICATES CONTROL JOINT IN SLAB



KEY PLAN

NOT TO SCALE

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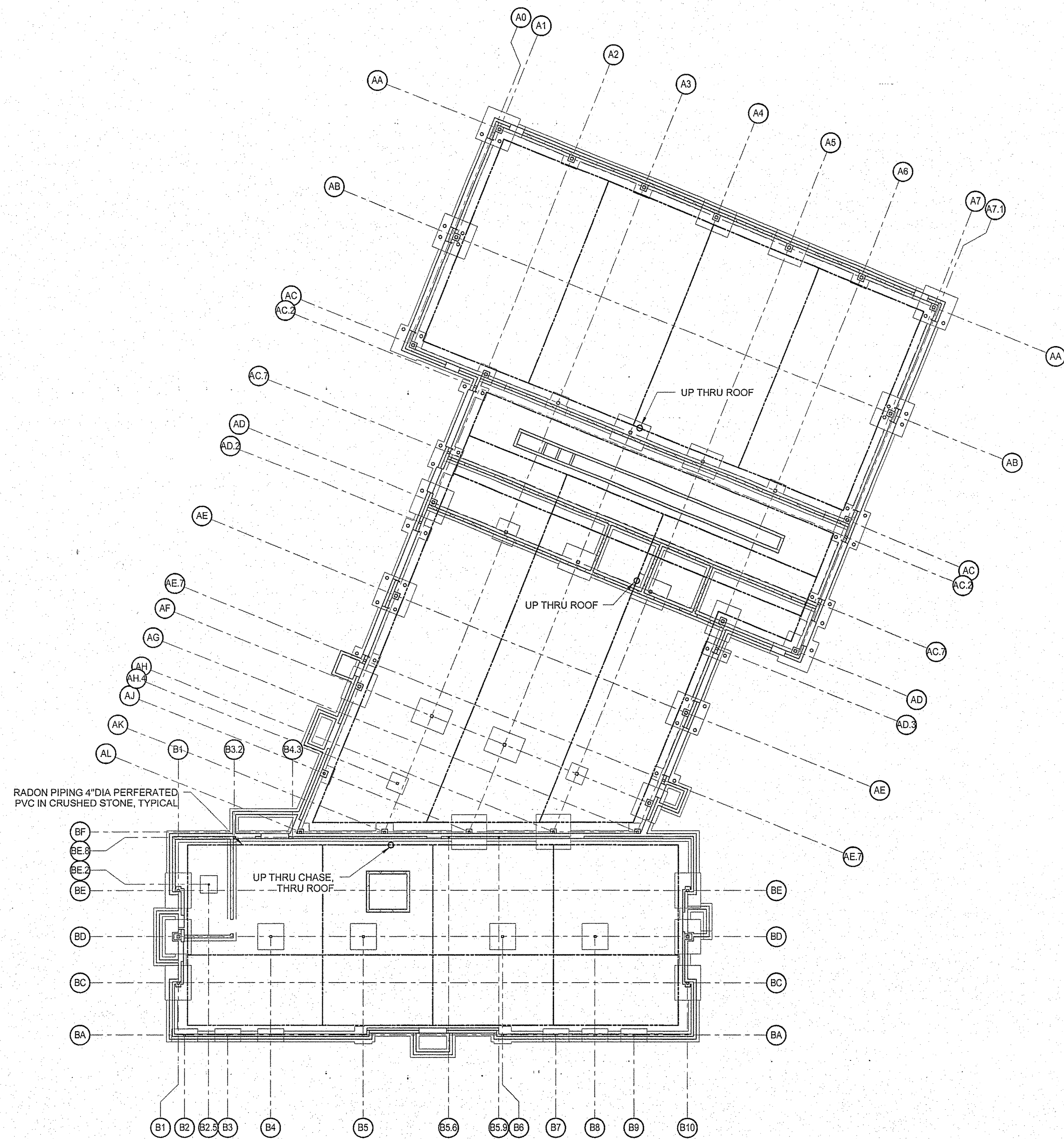
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SIGNATURE		P.E. NUMBER	
7133		01 MAY, 2009	
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DESIGNER	ALLIED ENGINEERING	CONSULTANT	ALLIED ENGINEERING
PROJECT RESIDENT		CONTRACTOR	
PROJECT COMPLETION DATE		PROJECT COMPLETION DATE	
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		STRUCTURAL PART PLAN - FOUNDATION	
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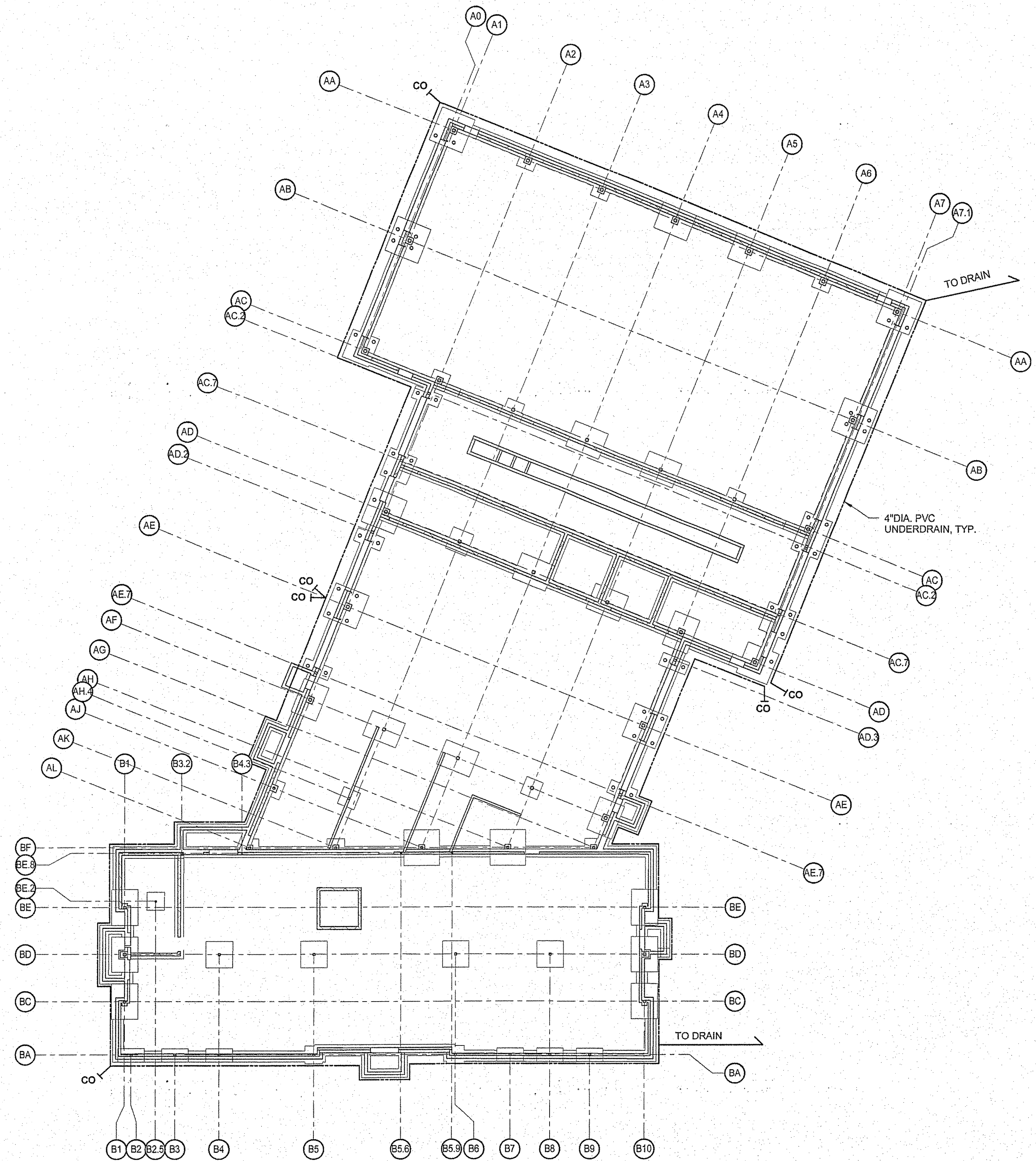
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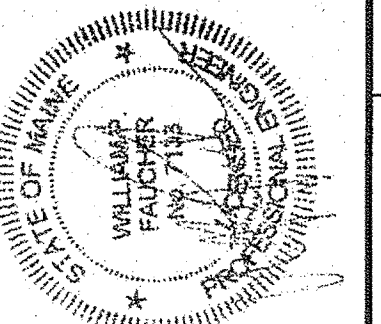
A1 RADON PIPING LAYOUT
1/16" = 1'-0"



A6 FOOTING DRAIN PIPING LAYOUT
1/16" = 1'-0"

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	DATE
FED PIN NO:	
PIN NO: 16123.50	



SIGNATURE	7133
P.E. NUMBER	01 MAY, 2009
DATE	

PROJECT INFORMATION	
PROGRAM	-
PROJECT MANAGER	WFF
DESIGNER	-
CONSULTANT	ALLIED ENGINEERING
PROJECT RESIDENT	-
CONTRACTOR	-
PROJECT COMPLETION DATE	-

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
RADON AND FOOTING DRAIN
PIPING LAYOUT PLANS

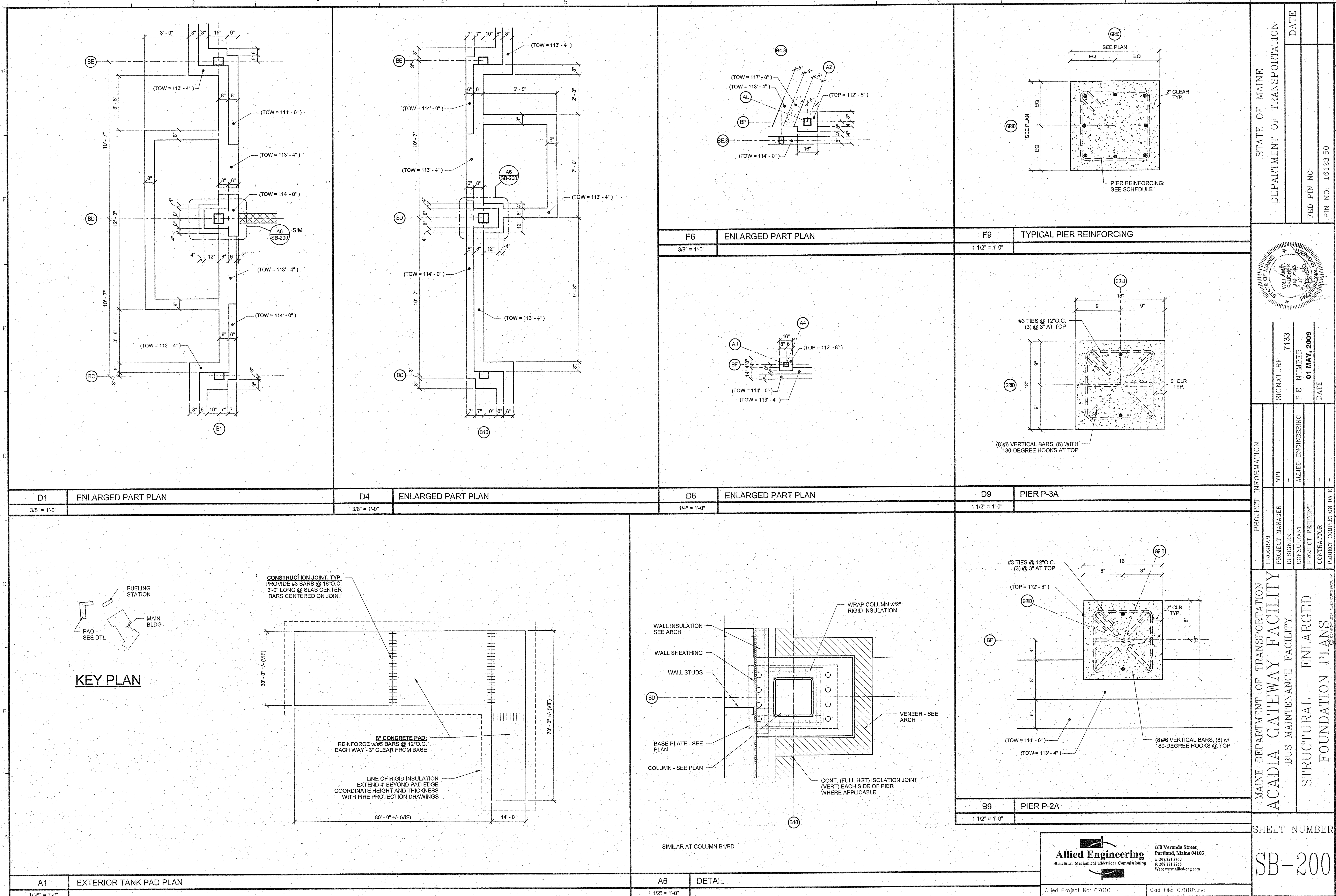
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SB-102

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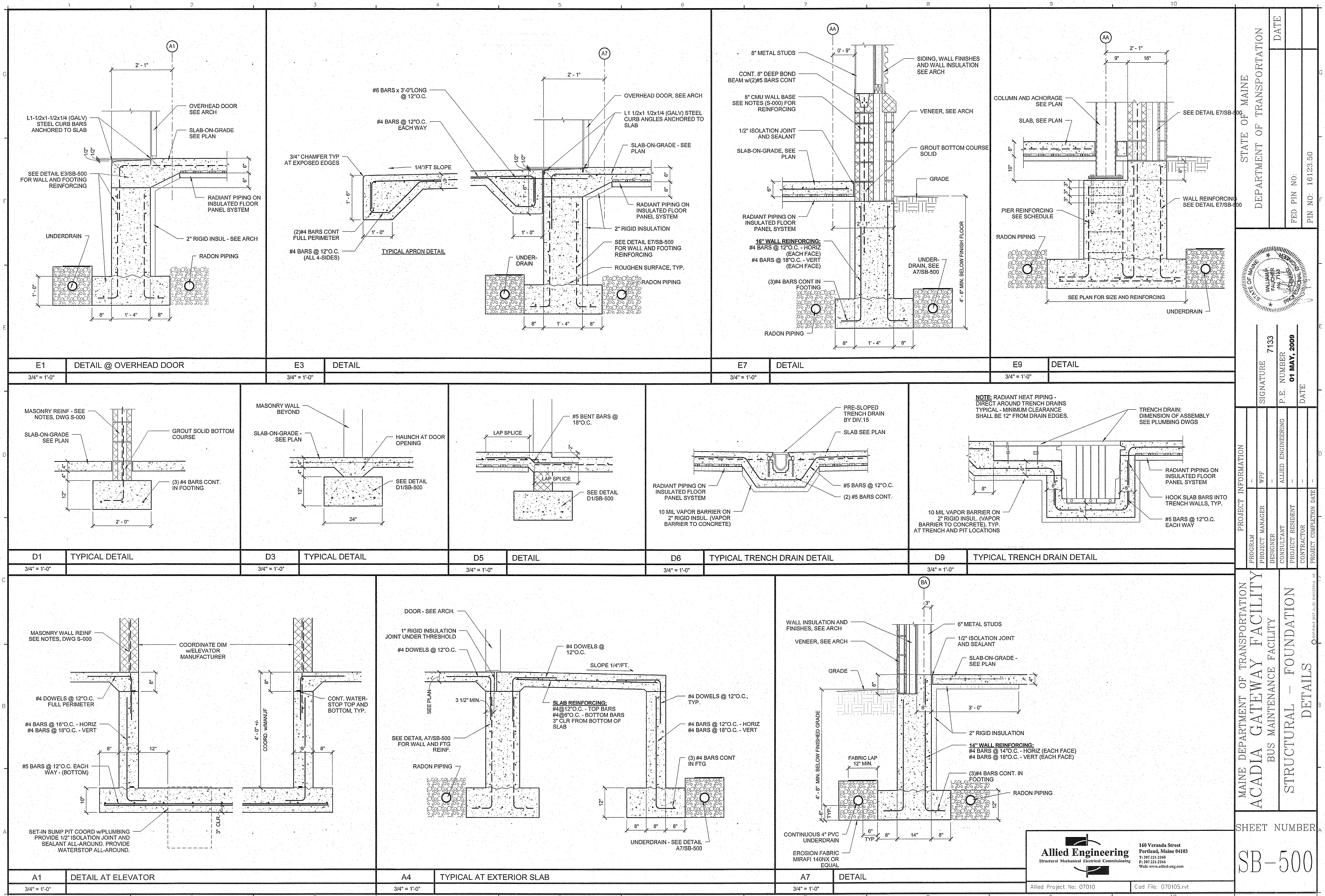


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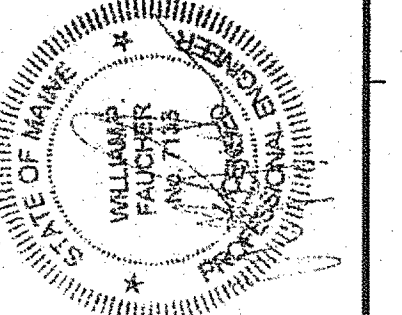


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE

FED PIN NO:

PIN NO: 16123.50



SIGNATURE

7133

P.E. NUMBER

01 MAY, 2009

DATE

PROJECT INFORMATION

PROGRAM

PROJECT MANAGER

DESIGNER

CONSULTANT

PROJECT RESIDENT

CONTRACTOR

PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY

BUS MAINTENANCE FACILITY

STRUCTURAL - FOUNDATION
DETAILS

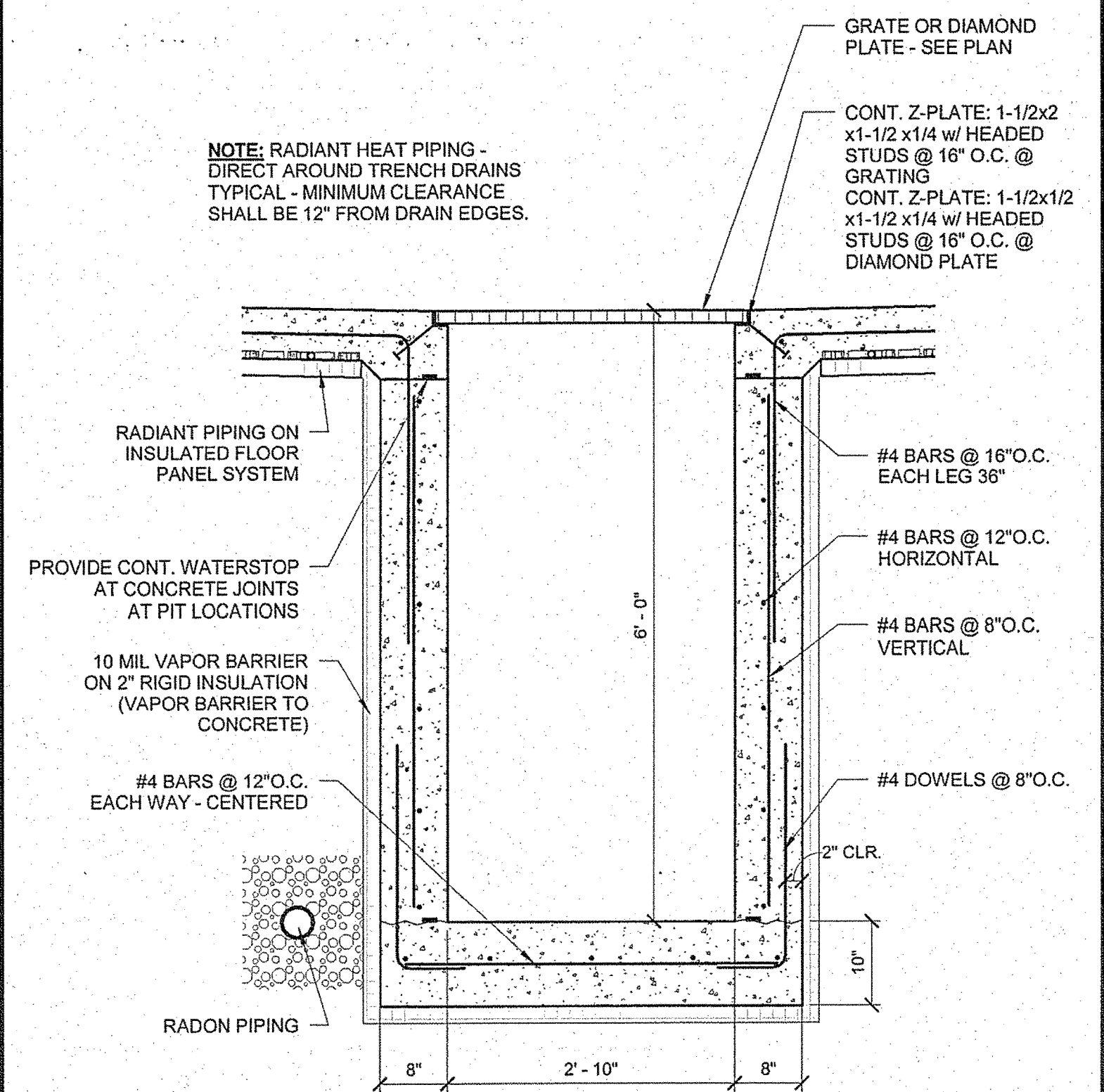
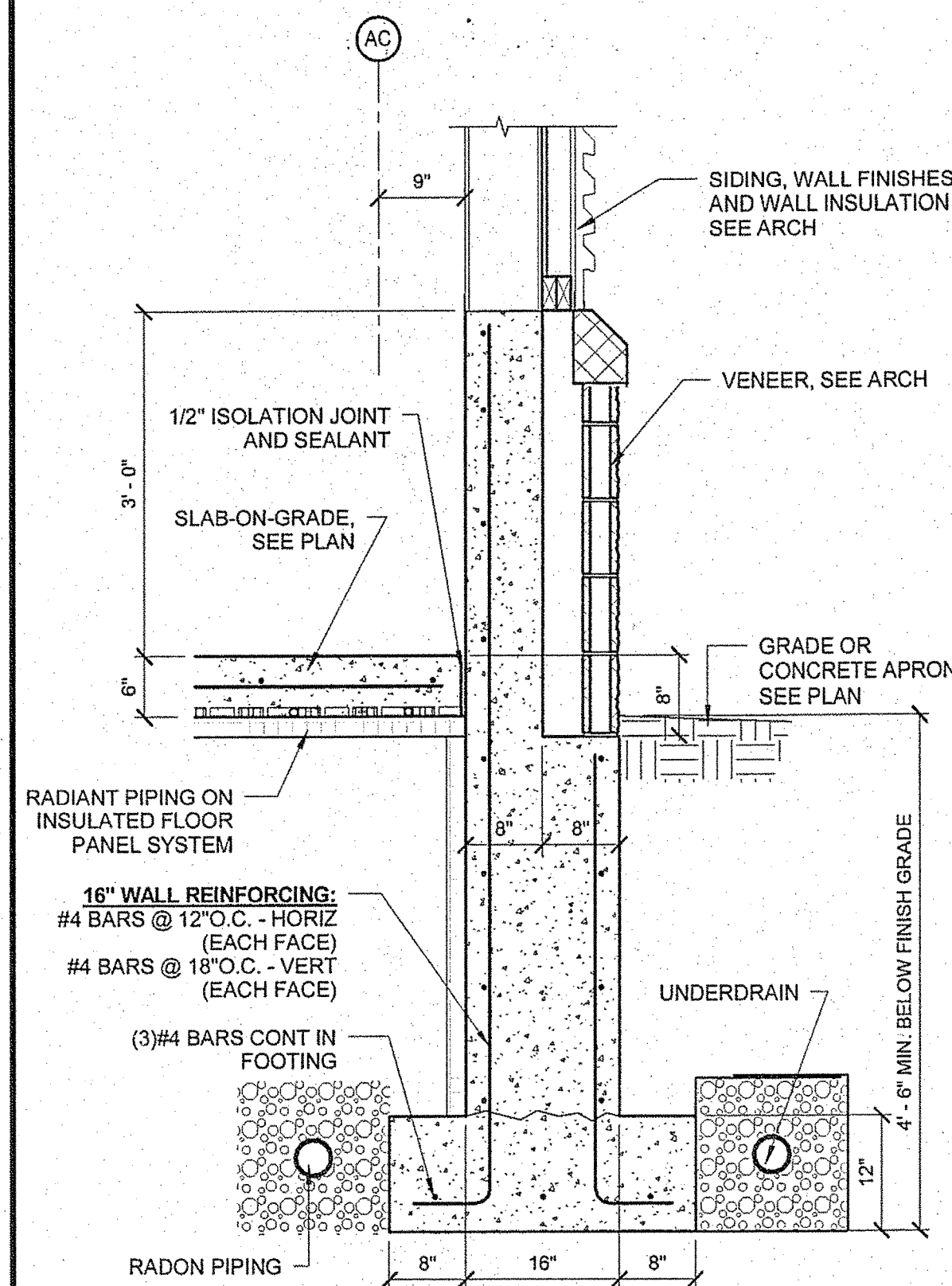
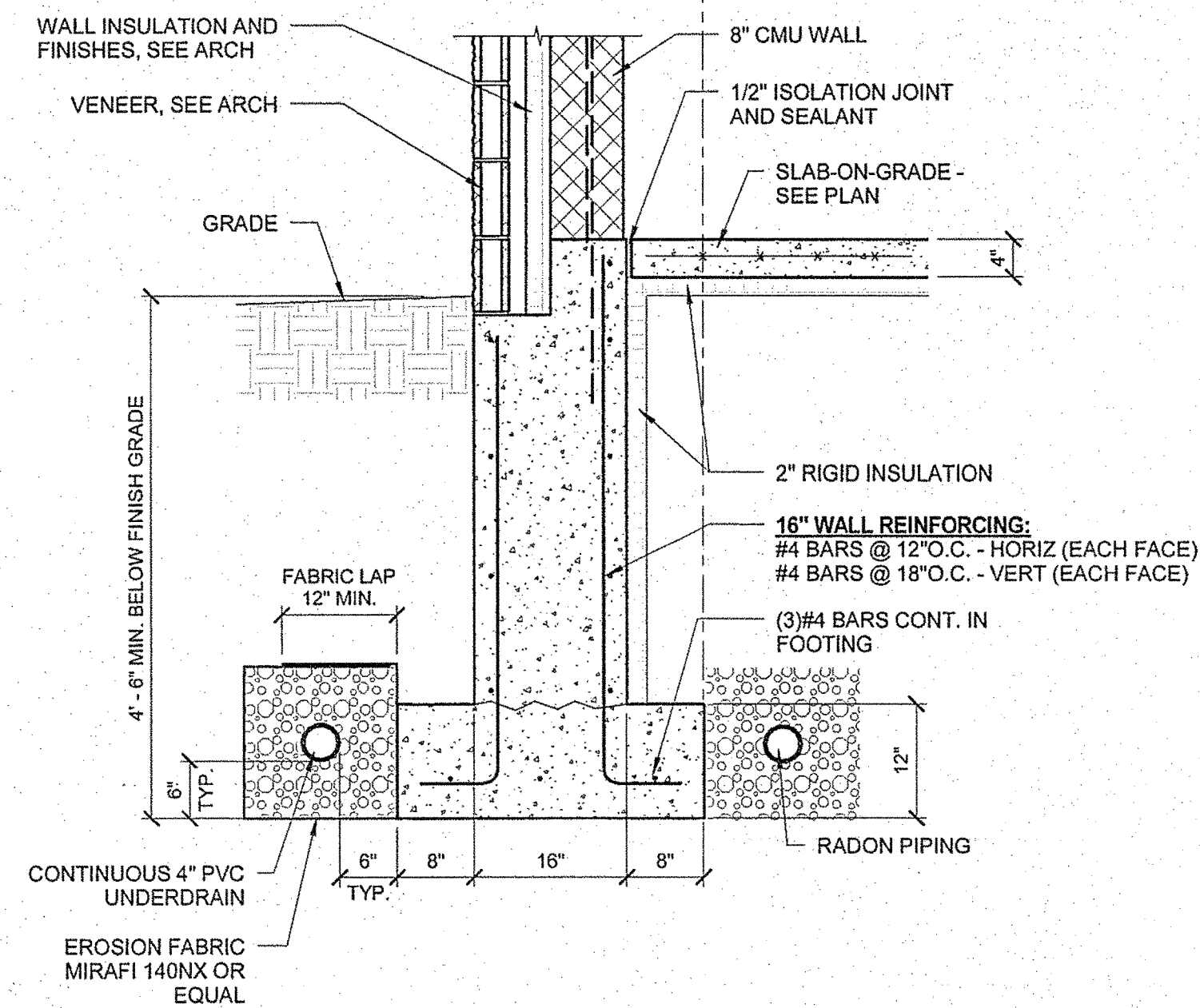
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SB-500

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Web: www.allied-eng.com

Allied Project No: 07010

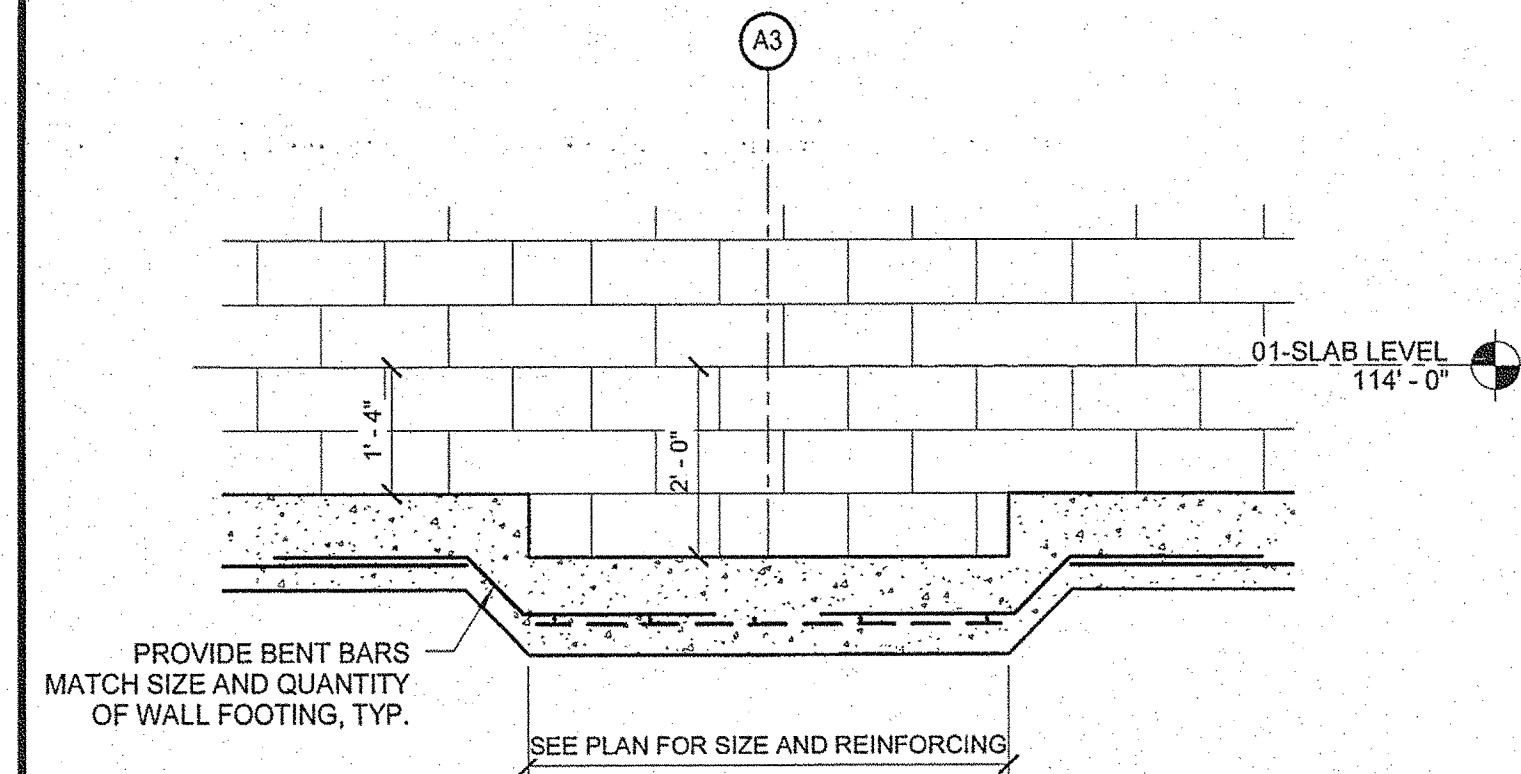
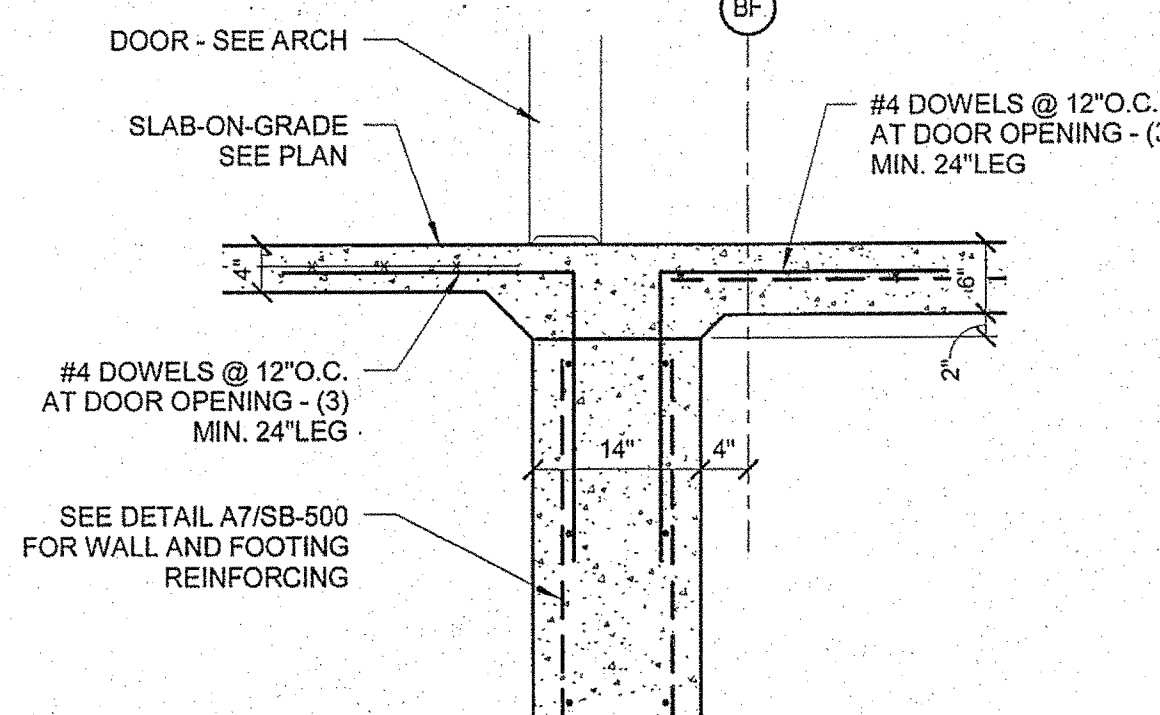
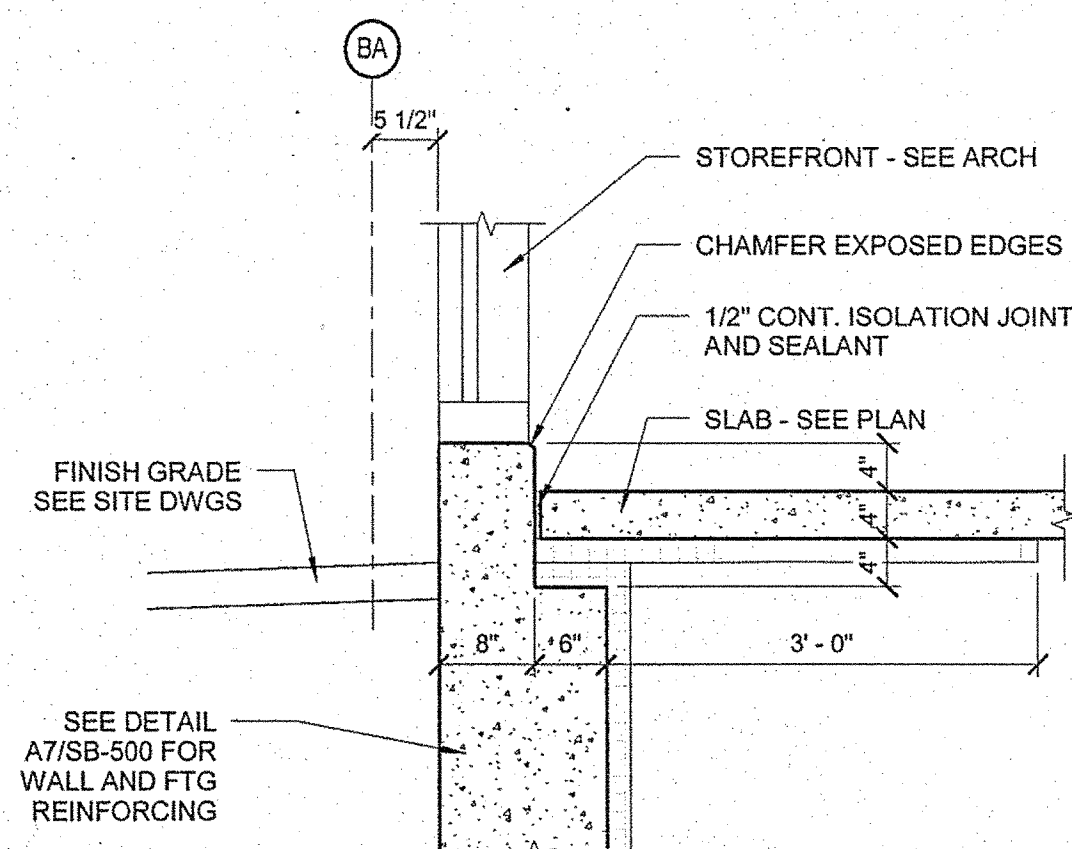
Cad File: 07010S.rvt



E3	DETAIL
3/4" = 1'-0"	

E6	DETAIL
3/4" = 1'-0"	

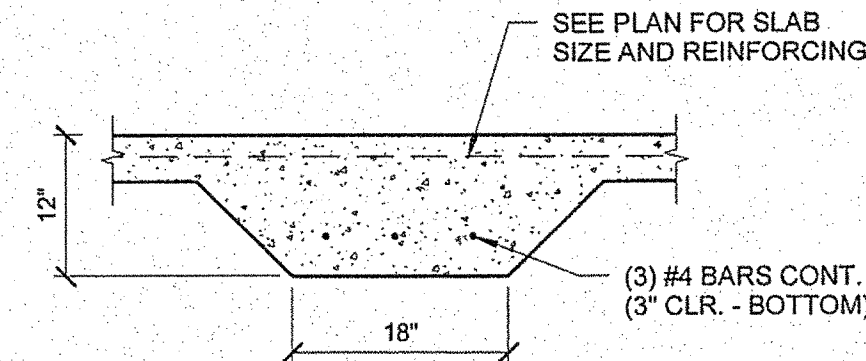
E9	DETAIL AT WASH PIT
3/4" = 1'-0"	



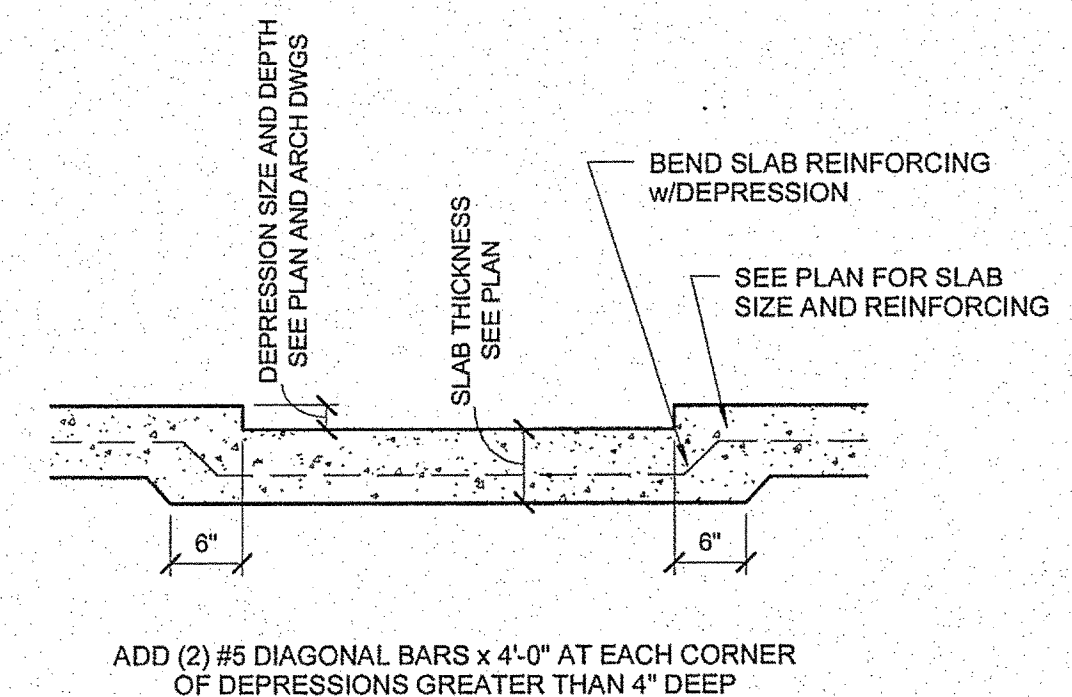
D4	DETAIL
3/4" = 1'-0"	

D6	DETAIL
3/4" = 1'-0"	

D9	DETAIL
1/2" = 1'-0"	



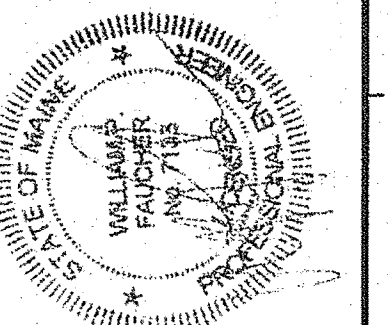
B6	TYPICAL THICKENED SLAB DETAIL
3/4" = 1'-0"	



A9	TYPICAL DEPRESSED SLAB DETAIL
3/4" = 1'-0"	

A1	TYPICAL BOLLARD DETAIL
3/4" = 1'-0"	

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DEPARTMENT OF TRANSPORTATION	
PIN NO.:	DATE




P.E. NUMBER
01 MAY, 2009

PROGRAM	-
PROJECT MANAGER	WPF
DESIGNER	-
CONSULTANT	ALLIED ENGINEERING
PROJECT RESIDENT	-
CONTRACTOR	-
PROJECT COMPLETION DATE	-

ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
STRUCTURAL -- FOUNDATION
DETAILS

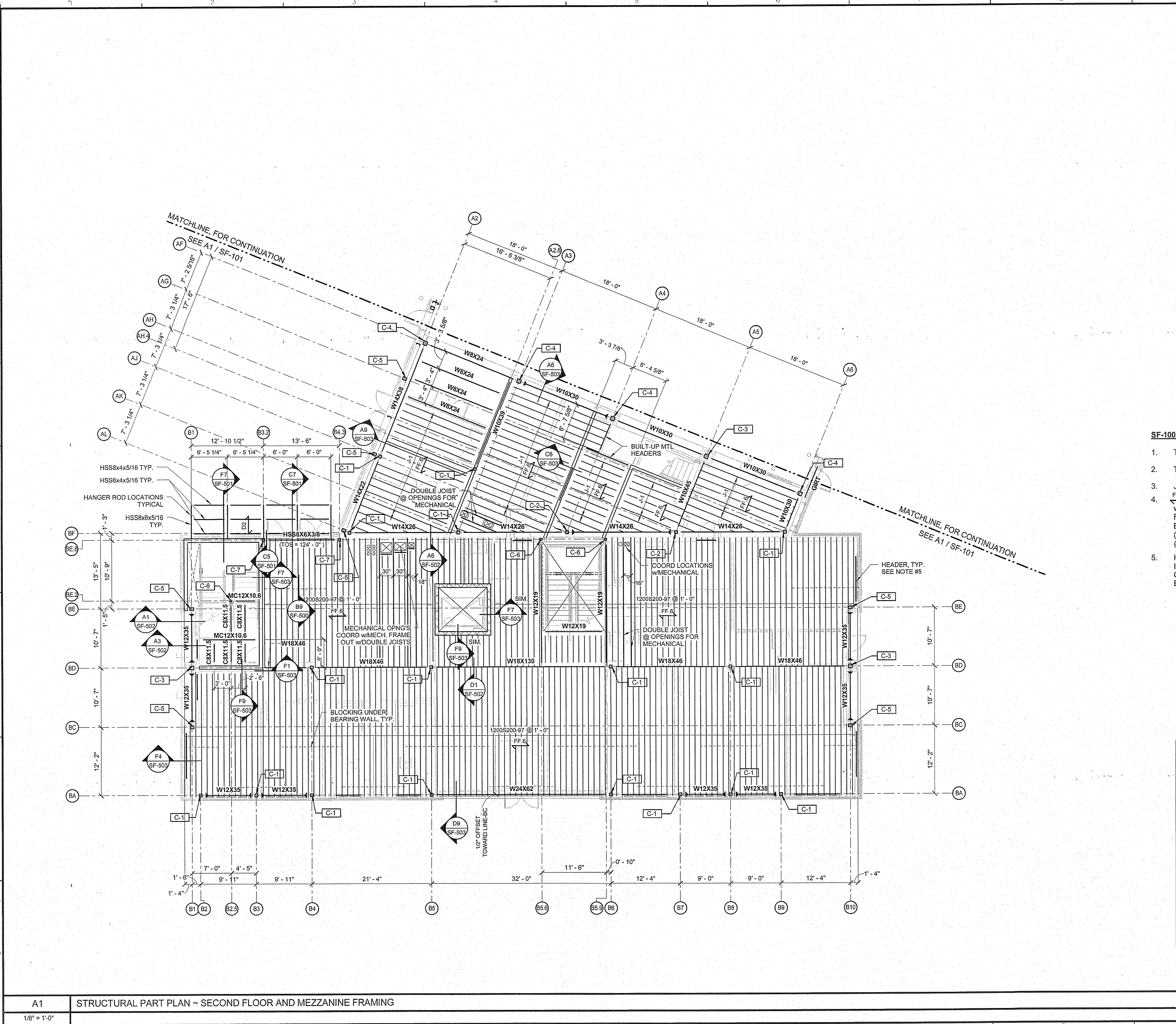
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SB-501

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Allied Project No: 07010	Cad File: 07010S.rvt
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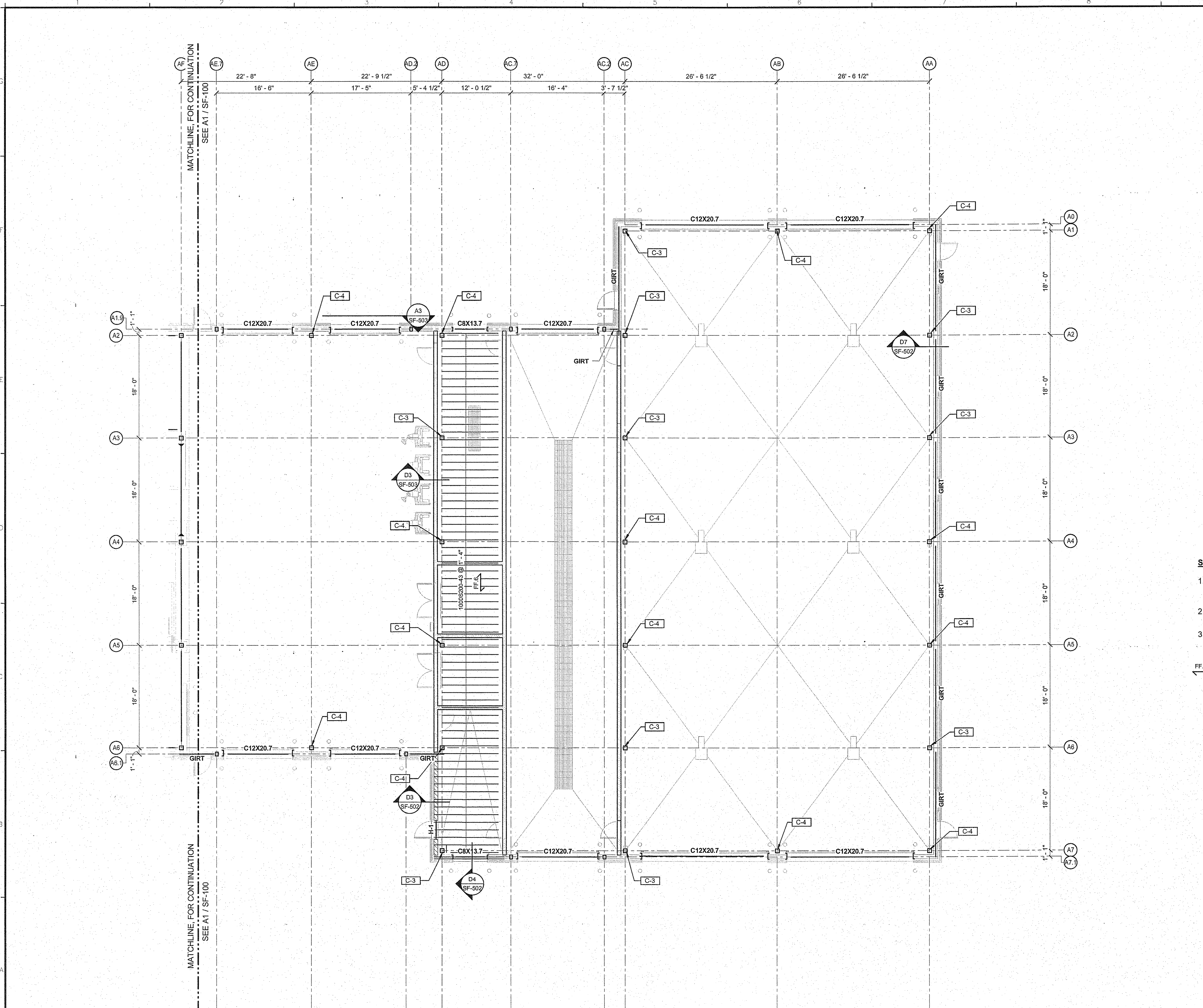


- SF-100: SECOND FLOOR FRAMING PLAN NOTES:**
- TOS = 124'-9 1/2" (LINES BA, BB, BD, B1 AND B10)
 - TOS = 122'-9 1/2" (LINES BF, AF, A5 AND A6)
 - J-1 = 1000S162-97 @ 16"O.C.
 - FF-8 INDICATES SPAN OF 2-1/2" CONCRETE w/6x6-W1.4xW1.4 VVWF ON 9/16" x 22GA FLOOR FORM FASTEN METAL DECKING TO STEEL BEAMS AND JOISTS w/#12 TEK SCREWS @ 6"O.C. (MAX.) ALONG SUPPORTS AND #10 TEK SCREWS @ 24"O.C. AT SIDE LAPS.
 - HEADERS FOR WINDOWS, DOORS AND LOUVERS IN METAL STUD BEARING WALLS BY FRAMING CONTRACTOR. SEE SCHEDULE ON S-000 FOR ESTIMATING.

PLAN NORTH

A9	KEY PLAN
NOT TO SCALE	
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Allied Project No: 07010 Cad File: 07010S.rvt	

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SIGNATURE		P.E. NUMBER	
7133		01 MAY, 2009	
PROJECT INFORMATION		PROJECT COMPLETION DATE	
PROGRAM	WFF	PROJECT MANAGER	DESIGNER
CONSULTANT	ALLIED ENGINEERING	PROJECT RESIDENT	CONTRACTOR
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		STRUCTURAL PART PLAN - SECOND FLOOR FRAMING	
SHEET NUMBER A		SF-100	

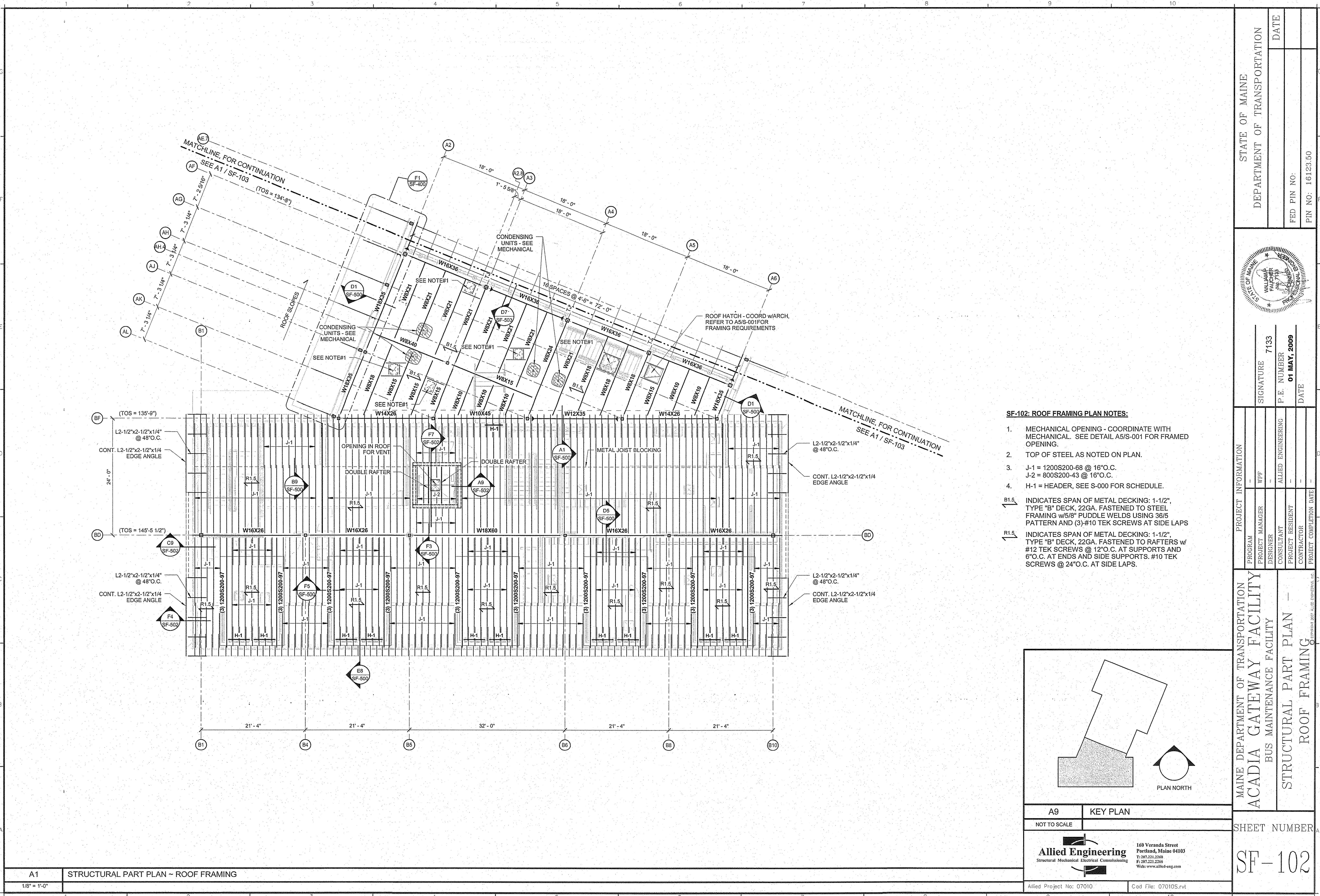


- SF-101: MEZZ/GIRT FRAMING PLAN NOTES:**
- "GIRT" INDICATES A C8X13.7 CHANNEL ROTATED 90-DEGREES WITH FLANGES DOWN - SEE DETAIL D7/SF-502 TYP.
 - SEE DRAWING SF-400 FOR HUNG EXTERIOR CANOPY FRAMING.
 - SEE DRAWING S-000 FOR SCHEDULES INCLUDING COLD-FORMED HEADERS. FOR MASONRY LINTELS SEE MASONRY NOTES.
- FF.6 INDICATES SPAN OF 2-1/2" CONCRETE w/6x6-W1.4xW1.4 WWF ON 9/16" x 22GA FLOOR FORM FASTEN METAL DECKING TO STEEL BEAMS AND JOISTS w/#12 TEK SCREWS @ 6"O.C. (MAX.) ALONG SUPPORTS AND #10 TEK SCREWS @ 24"O.C. AT SIDE LAPS.

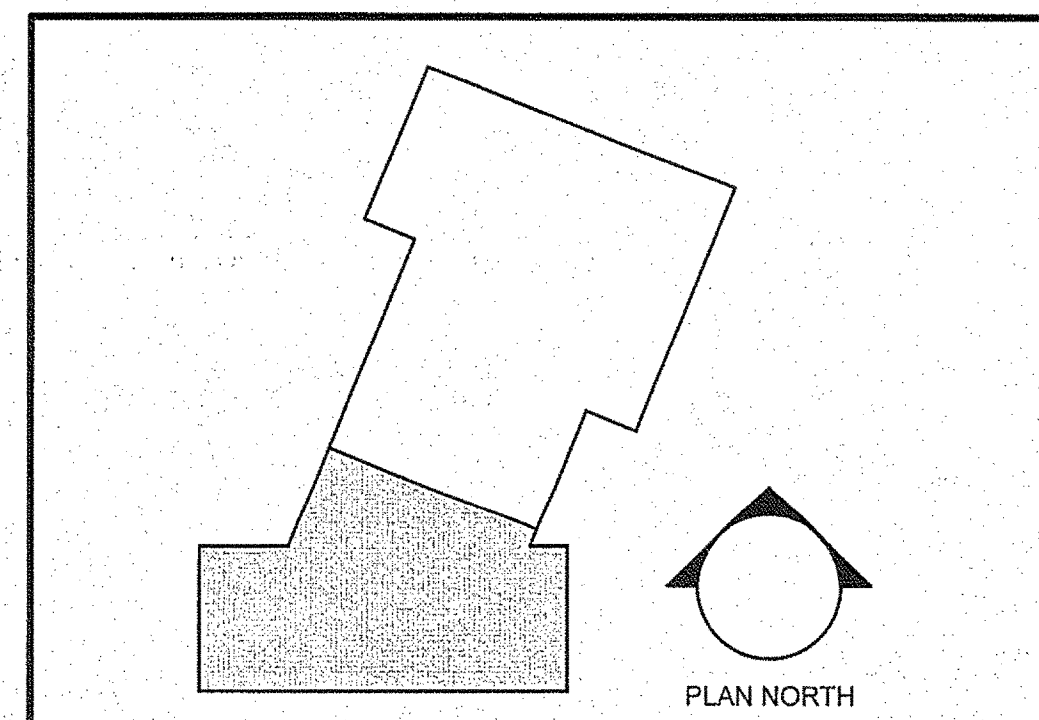
PLAN NORTH

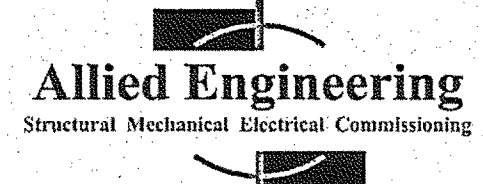
A9	KEY PLAN
NOT TO SCALE	
Allied Engineering Structural Mechanical Electrical Commissioning	
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Allied Project No: 07010Cad File: 07010S.rvt	

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE 7133		PROJECT INFORMATION		MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		SHEET NUMBER A	
DATE		P.E. NUMBER 01 MAY, 2009		PROGRAM WPF		STRUCTURAL PART PLAN - MEZZANINE / GIRT FRAMING		SF-101	
PED PIN NO:		DATE		PROJECT MANAGER		PROJECT RESIDENT			
PIN NO: 16123.50				DESIGNER		CONTRACTOR			
				CONSULTANT		PROJECT COMPLETION DATE			

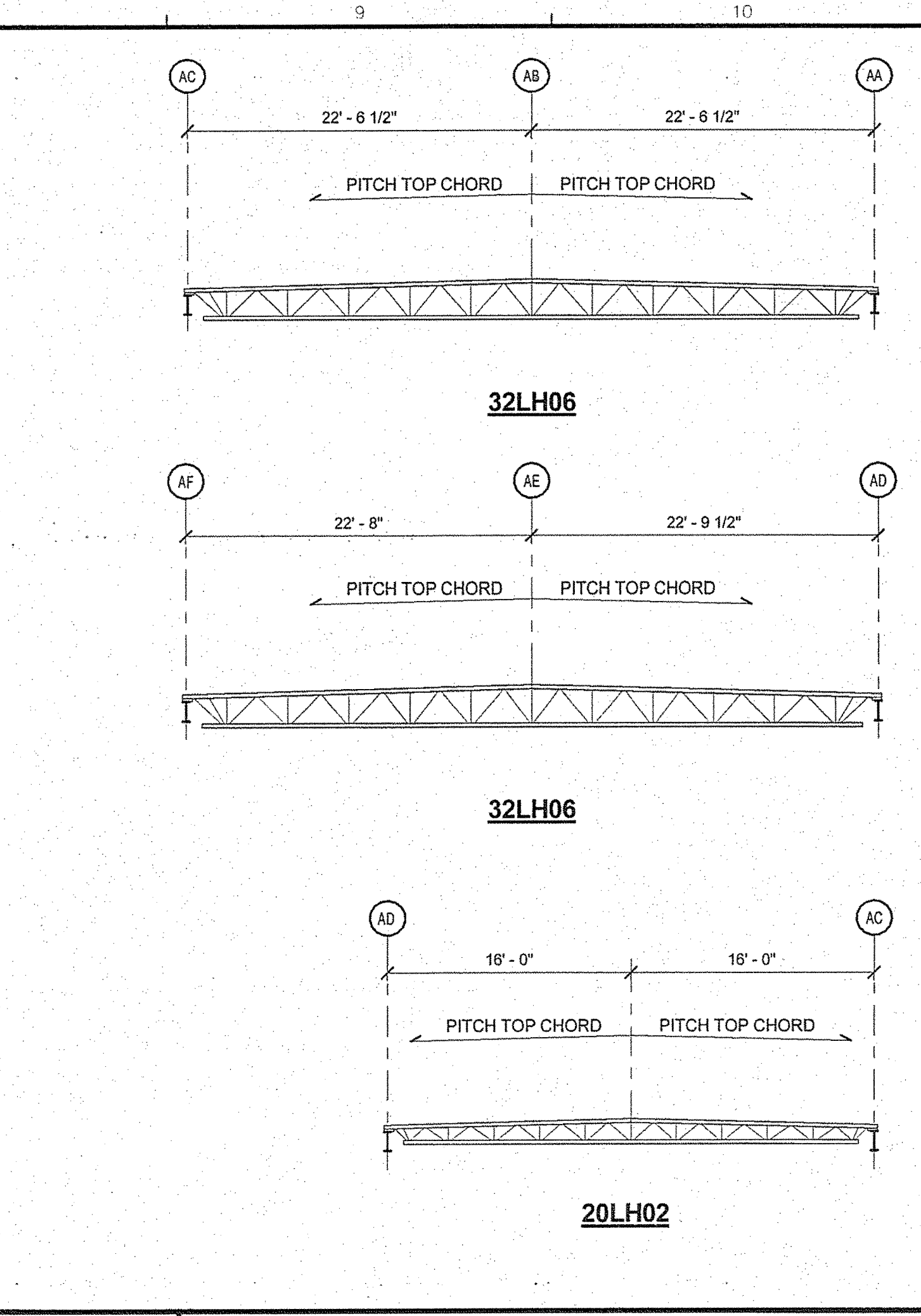
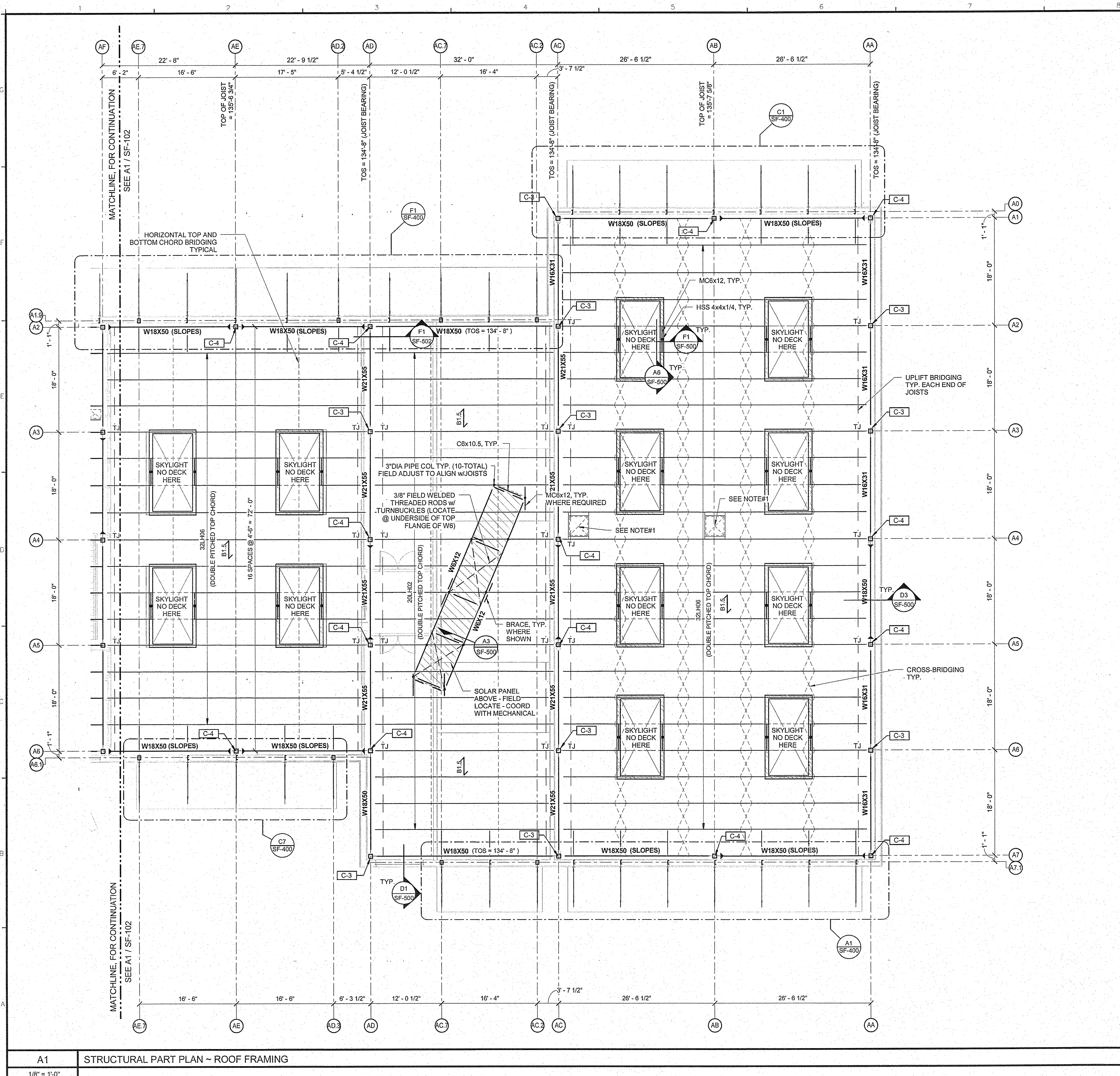


- SF-102: ROOF FRAMING PLAN NOTES:**
- MECHANICAL OPENING - COORDINATE WITH MECHANICAL. SEE DETAIL A5/S-001 FOR FRAMED OPENING.
 - TOP OF STEEL AS NOTED ON PLAN.
 - J-1 = 1200S200-68 @ 16"O.C.
J-2 = 800S200-43 @ 16"O.C.
 - H-1 = HEADER, SEE S-000 FOR SCHEDULE.
- B1.5** INDICATES SPAN OF METAL DECKING: 1-1/2", TYPE "B" DECK, 22GA. FASTENED TO STEEL FRAMING w/5/8" PUDDLE WELDS USING 36/5 PATTERN AND (3)#10 TEK SCREWS AT SIDE LAPS
- R1.5** INDICATES SPAN OF METAL DECKING: 1-1/2", TYPE "B" DECK, 22GA. FASTENED TO RAFTERS w/ #12 TEK SCREWS @ 12"O.C. AT SUPPORTS AND 6"O.C. AT ENDS AND SIDE SUPPORTS. #10 TEK SCREWS @ 24"O.C. AT SIDE LAPS.



A9		KEY PLAN	
NOT TO SCALE			
		160 Veranda Street Portland, Maine 04103 T: 207.221.2260 F: 207.221.2260 Web: www.allied-eng.com	
Allied Project No: 07010		Cad File: 07010S.rvt	

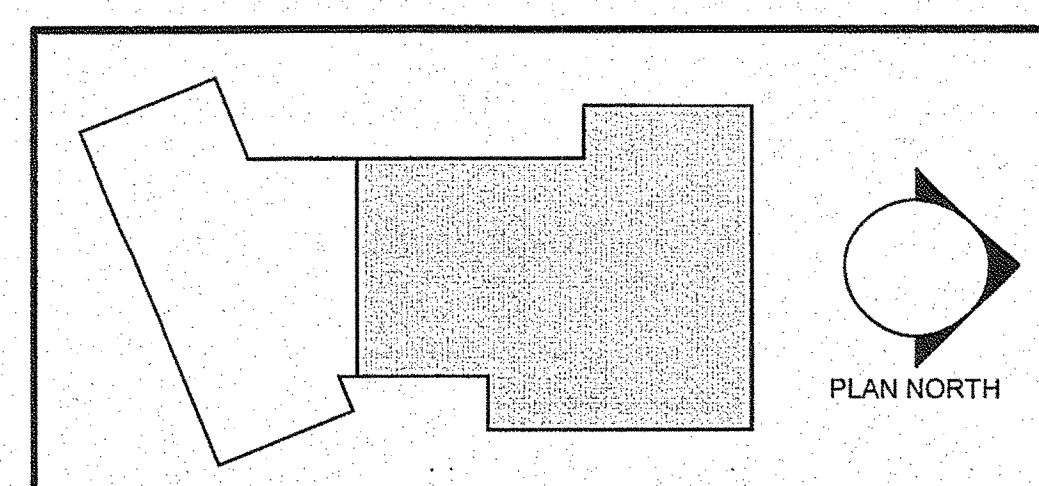
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
SIGNATURE		P.E. NUMBER	
7133		01 MAY, 2009	
PROJECT INFORMATION		DATE	
PROGRAM	WPP	PROJECT MANAGER	DESIGNER
CONSULTANT	ALLIED ENGINEERING	PROJECT RESIDENT	CONTRACTOR
PROJECT COMPLETION DATE			
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY STRUCTURAL PART PLAN - ROOF FRAMING			
SHEET NUMBER			
SF-102			



E9 ROOF JOIST PROFILES
1/8" = 1'-0"

SF-103: ROOF FRAMING PLAN NOTES:

- MECHANICAL OPENING - COORDINATE WITH MECHANICAL. SEE DETAIL A5/S-001 FOR FRAMED OPENING.
 - TOP OF STEEL AS NOTED ON PLAN.
- B1.5 INDICATES SPAN OF METAL DECKING: 1-1/2" TYPE 'B' DECK, 22GA. FASTEN TO STEEL FRAMING W/5/8" PUDDLE WELDS USING 3/8" PATTERN AND (3)-#10 TEK SCREWS BETWEEN SPAN AT SIDE LAPS



A9	KEY PLAN
NOT TO SCALE	
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Allied Project No: 07010 Cod File: 07010S.rvt	

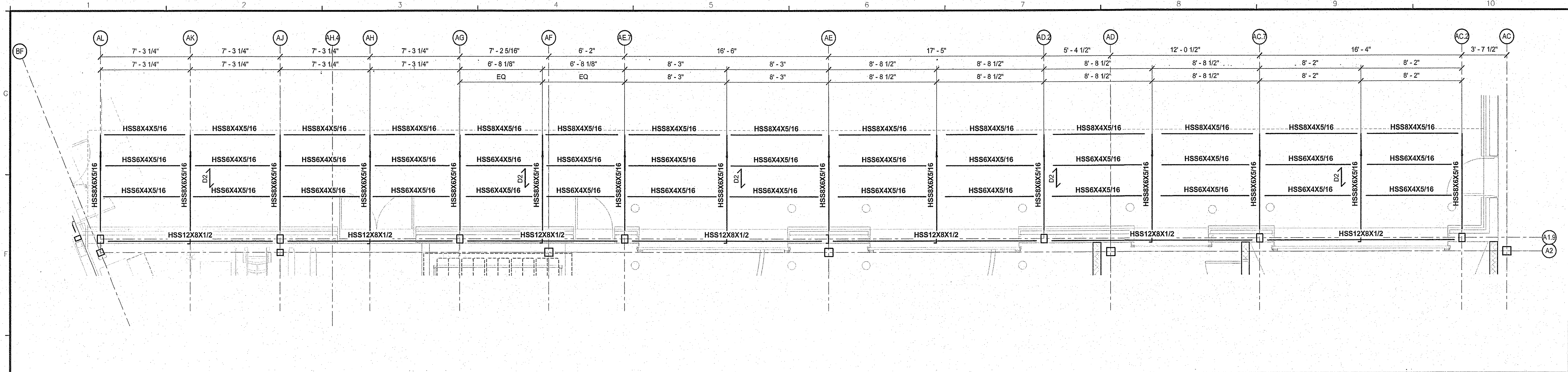
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SIGNATURE 7133		P.E. NUMBER 01 MAY, 2009	
PROJECT INFORMATION		PROJECT INFORMATION	
PROGRAM	WPF	PROJECT MANAGER	WPF
DESIGNER	ALLIED ENGINEERING	CONSULTANT	ALLIED ENGINEERING
PROJECT RESIDENT		CONTRACTOR	
PROJECT COMPLETION DATE		PROJECT COMPLETION DATE	
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		STRUCTURAL PART PLAN - ROOF FRAMING	
SHEET NUMBER		SF-103	

Username: -

Division: -

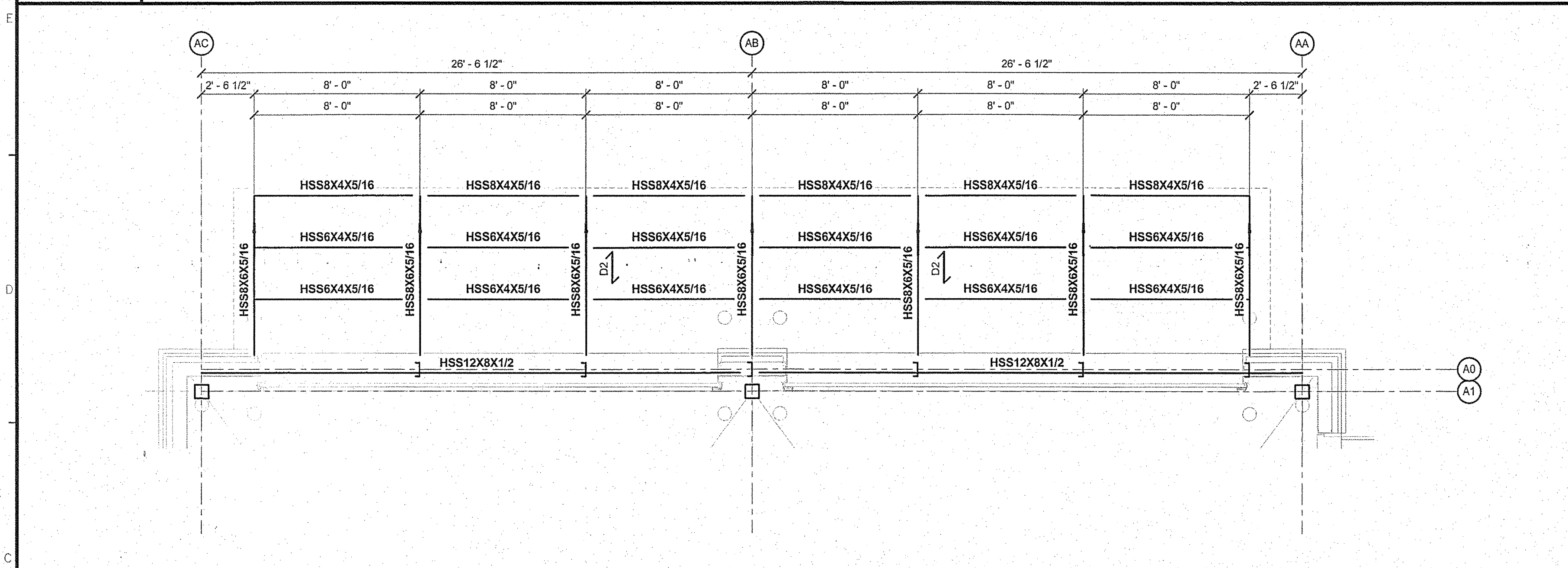
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Filename: -



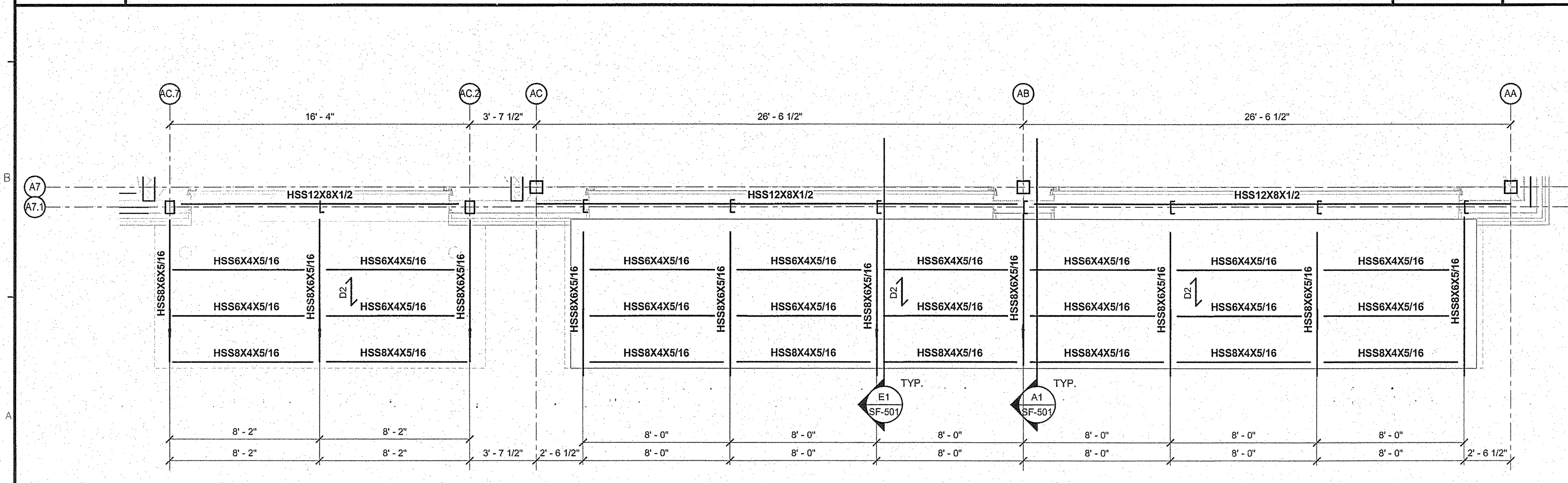
F1 CANOPY FRAMING PLAN

1/4" = 1'-0"



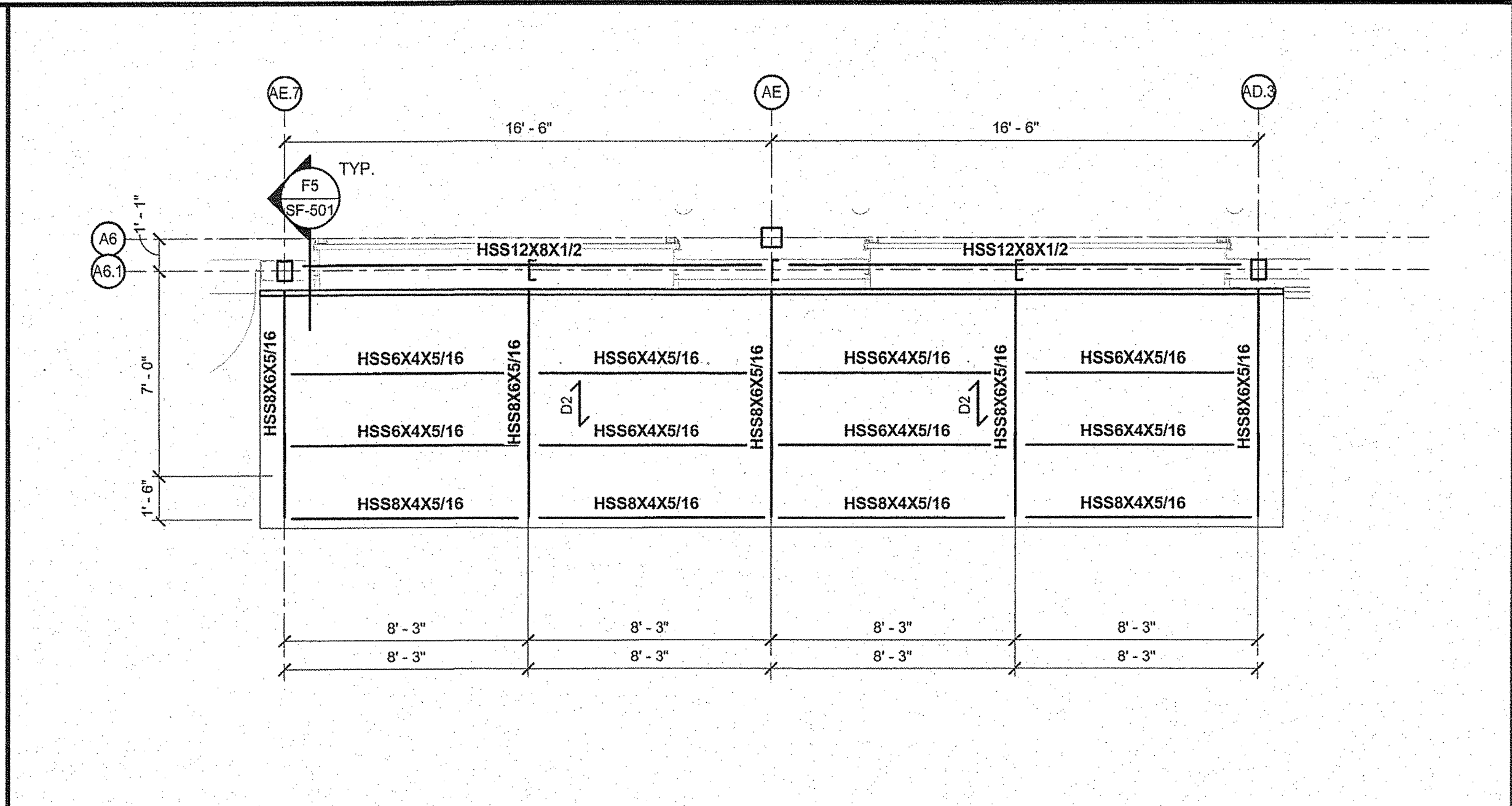
C1 CANOPY FRAMING PLAN

1/4" = 1'-0"



A1 CANOPY FRAMING PLAN

1/4" = 1'-0"



C7 CANOPY FRAMING PLAN

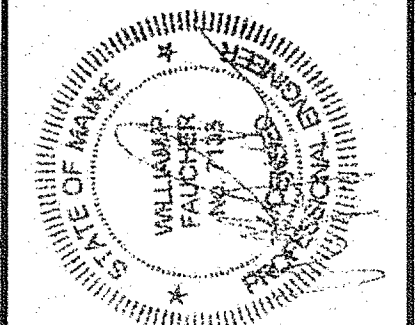
1/4" = 1'-0"

- NOTE:
D2 INDICATES SPAN OF 2" DOVETAIL DECKING - SEE SPECS
1. SEE FRAMING PLANS FOR MEMBERS NOT INDICATED ON THIS DRAWING

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DATE	
FED PIN NO:	
PIN NO: 16123.50	

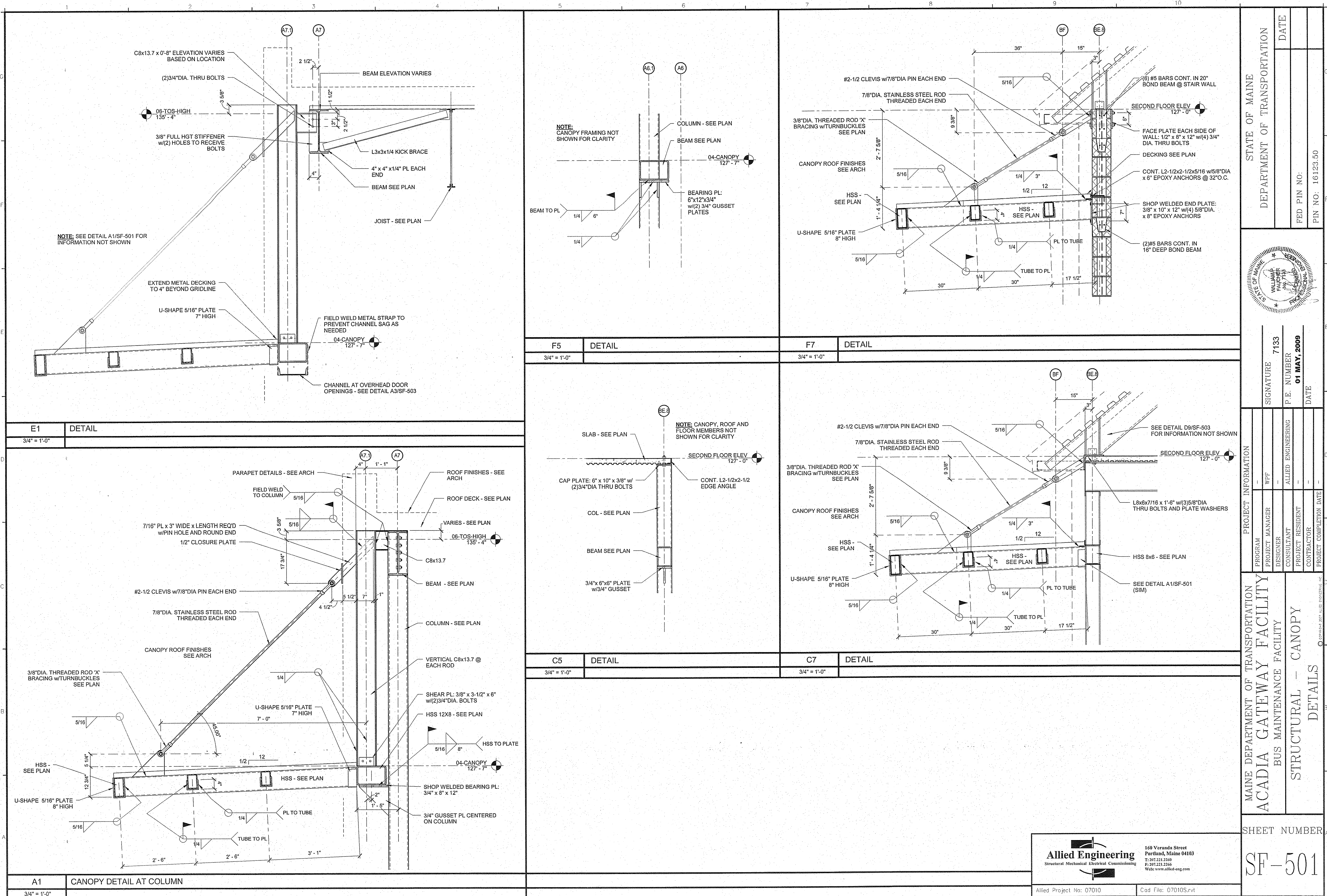


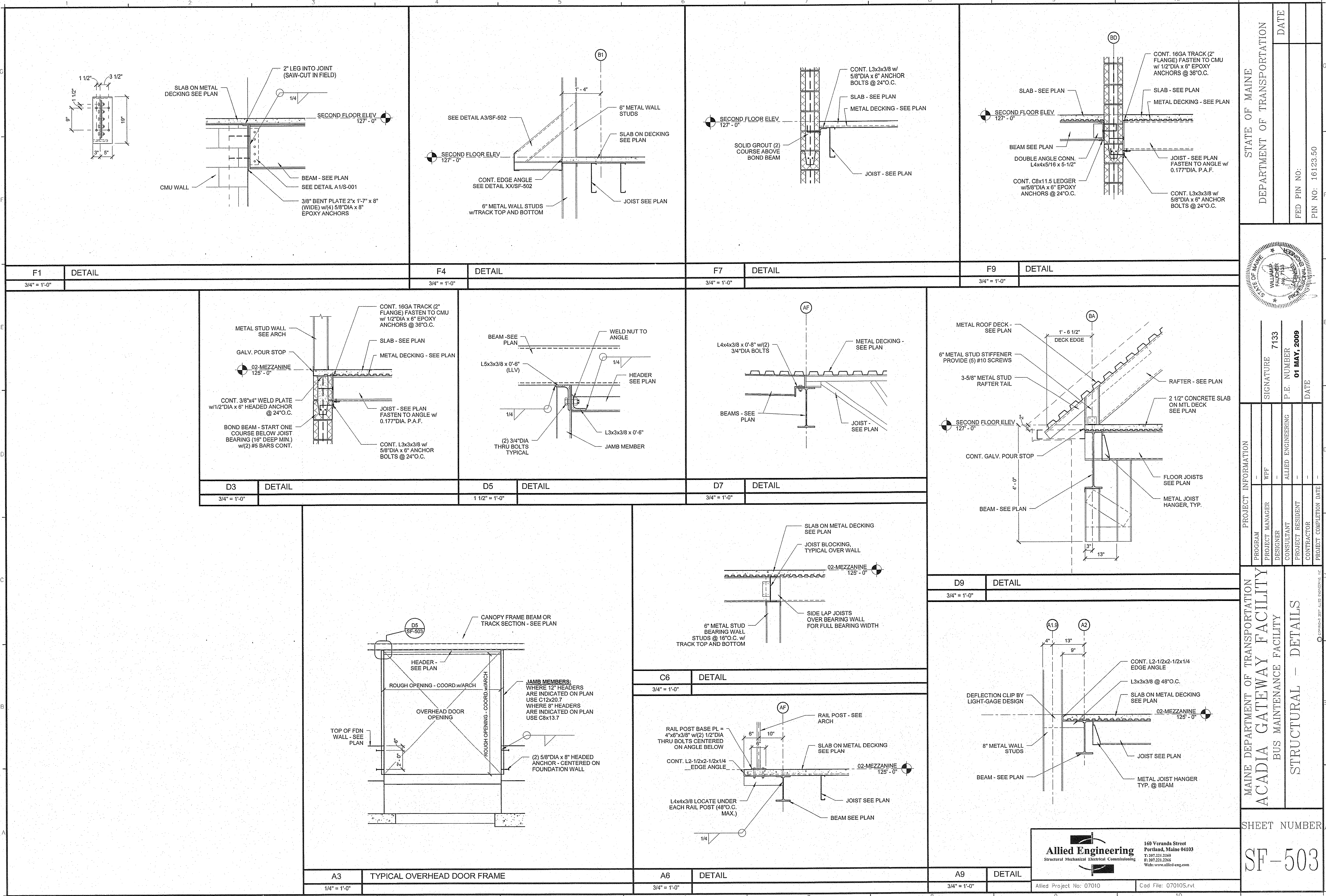
PROJECT INFORMATION	
PROGRAM	-
PROJECT MANAGER	WPP
DESIGNER	-
CONSULTANT	-
PROJECT RESIDENT	-
CONTRACTOR	-
PROJECT COMPLETION DATE	-

MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY	
STRUCTURAL - CANOPY FRAMING PLANS	

SHEET NUMBER

SF-400





STATE OF MAINE
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DATE
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PIN NO: 161233.50

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
7/13
7/13

SIGNATURE
7133
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION

PROGRAM
PROJECT MANAGER
DESIGNER
CONSULTANT
PROJECT RESIDENT
CONTRACTOR

WPF
ALLIED ENGINEERING
-
-
-

PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

STRUCTURAL - DETAILS

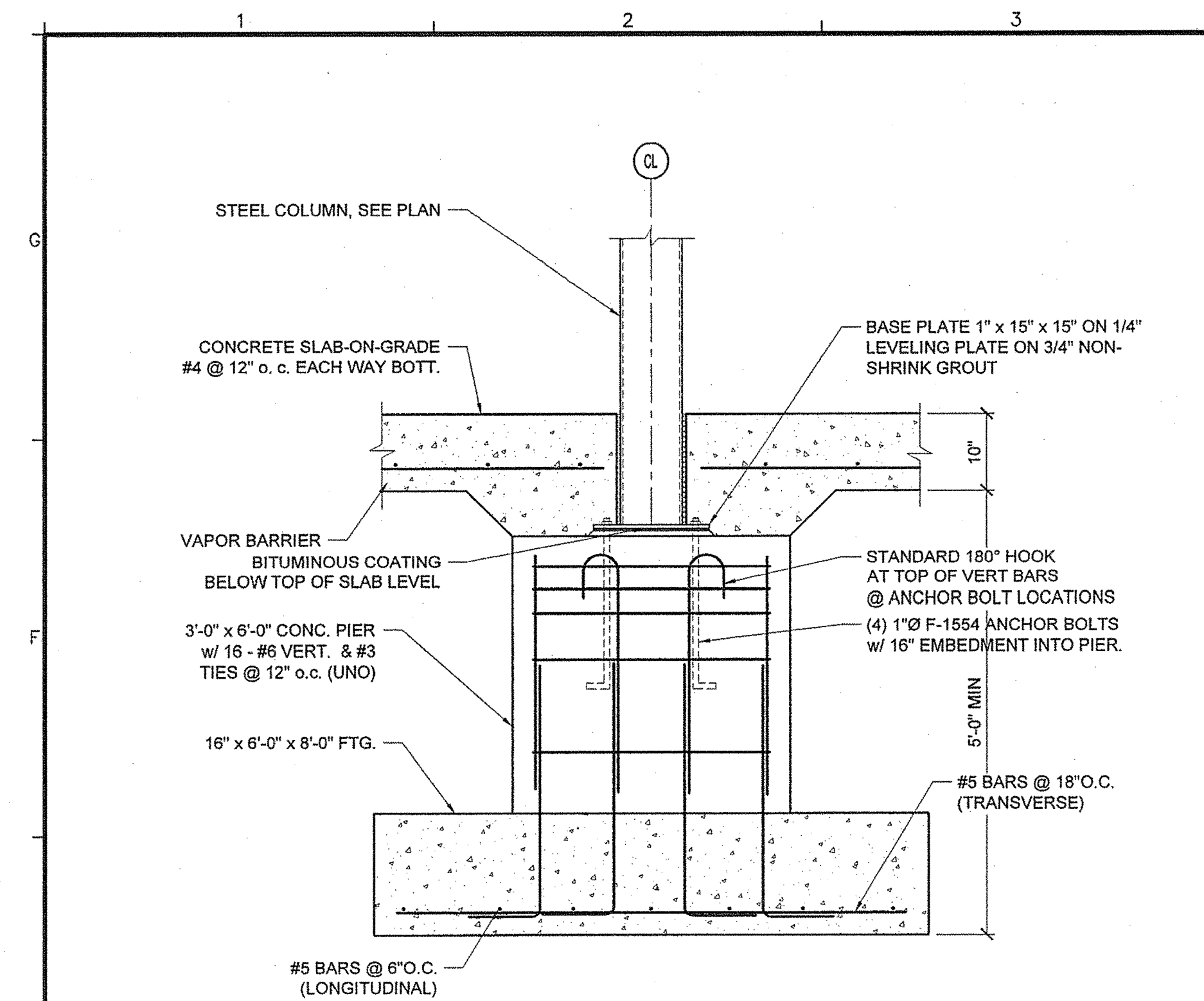
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SF-503

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Structural Mechanical Electrical Commissioning

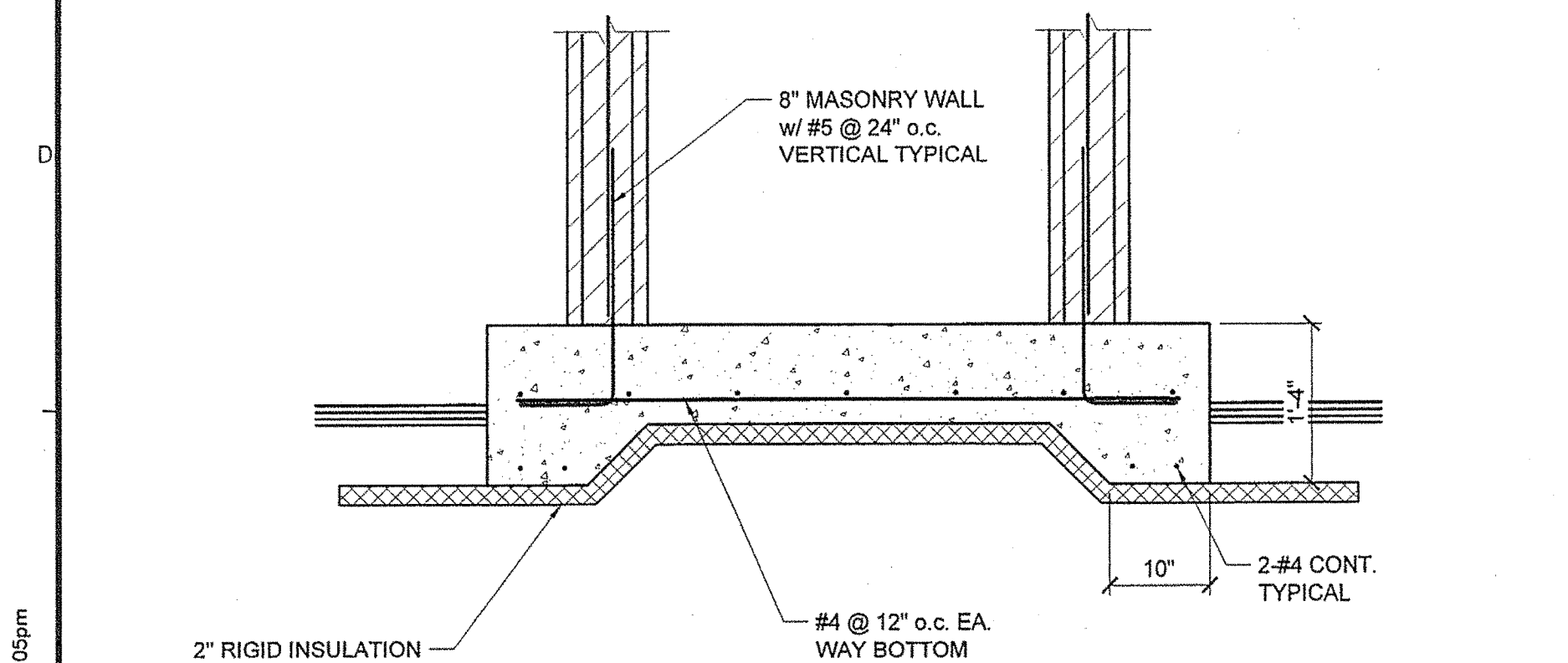
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F: 207.221.2266
Web: www.allied-eng.com

Allied Project No: 07010Cod File: 070105.rvt



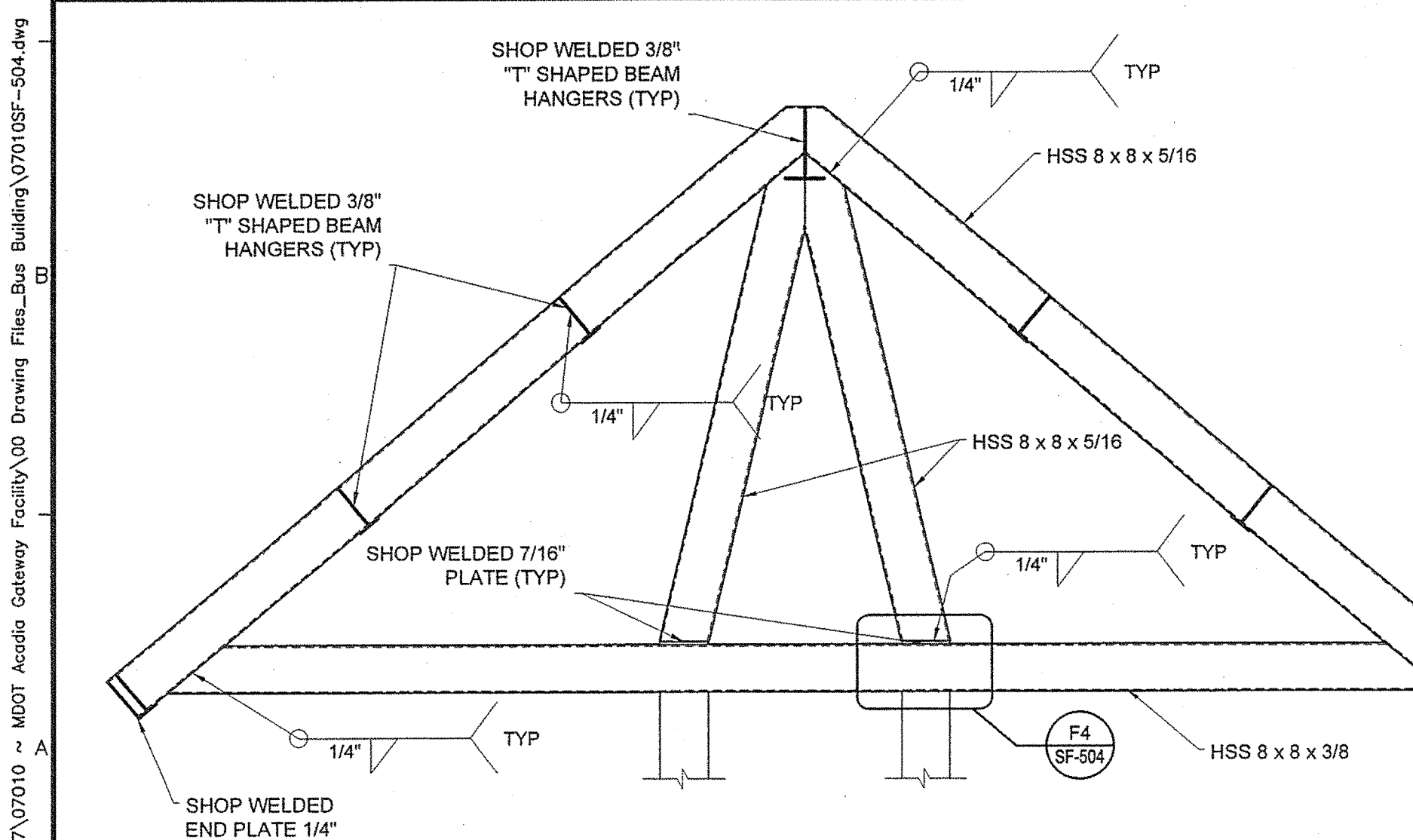
F1 TYPICAL FUELING STATION COLUMN PIER/FOOTING DETAIL

3/4" = 1'-0"



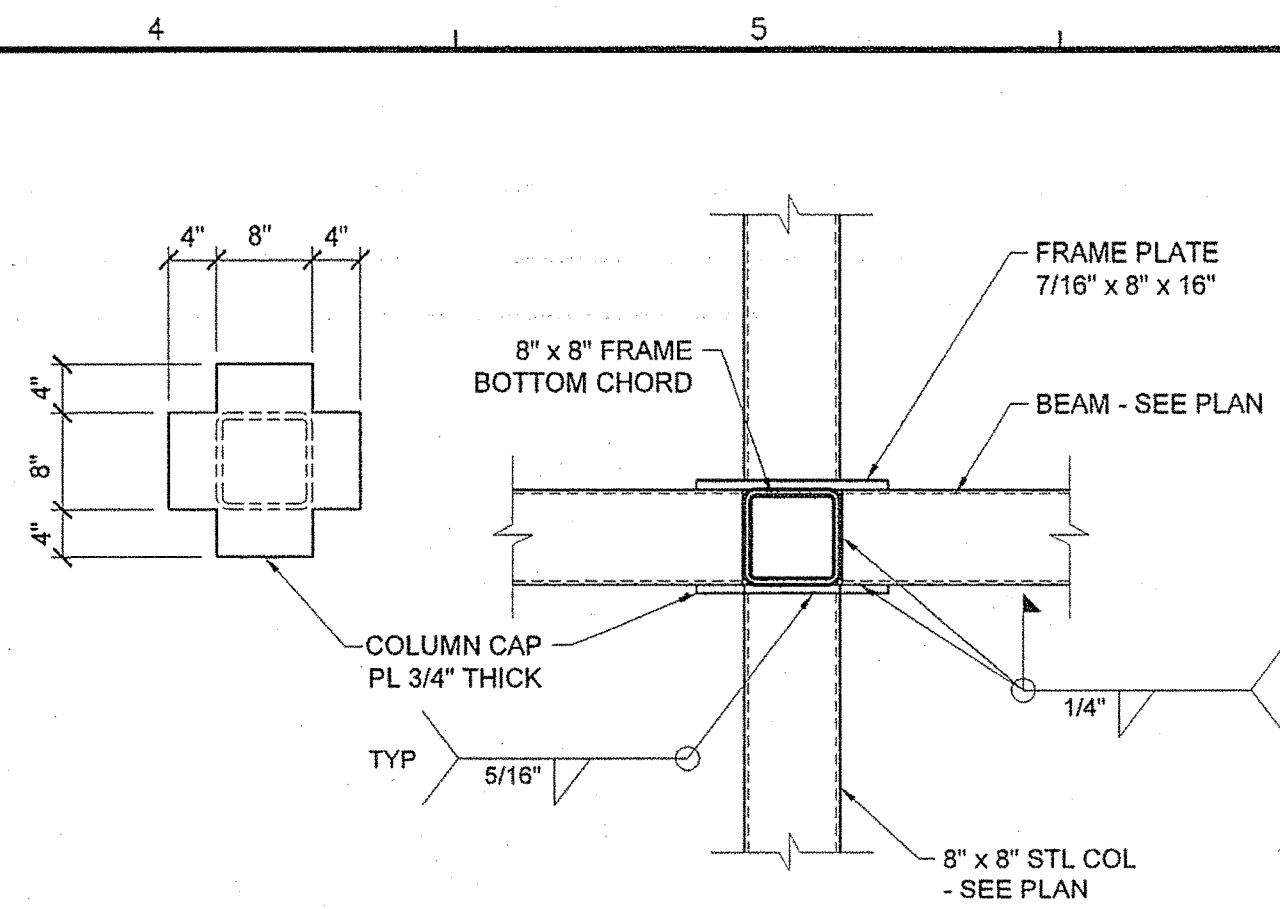
C1 TYPICAL FUELING STATION SLAB DETAIL DETAIL

3/4" = 1'-0"



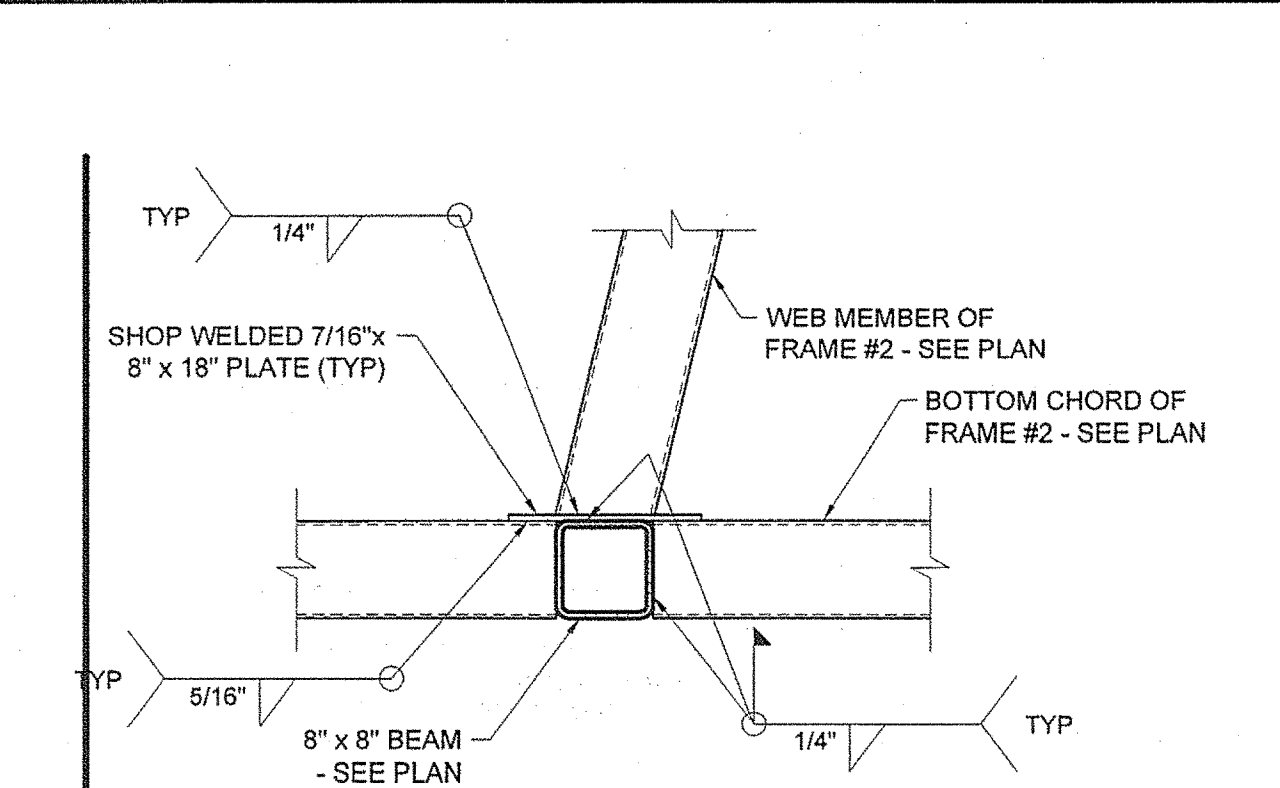
A1 FUELING STATION CANOPY - FRAME 1

1/2" = 1'-0"



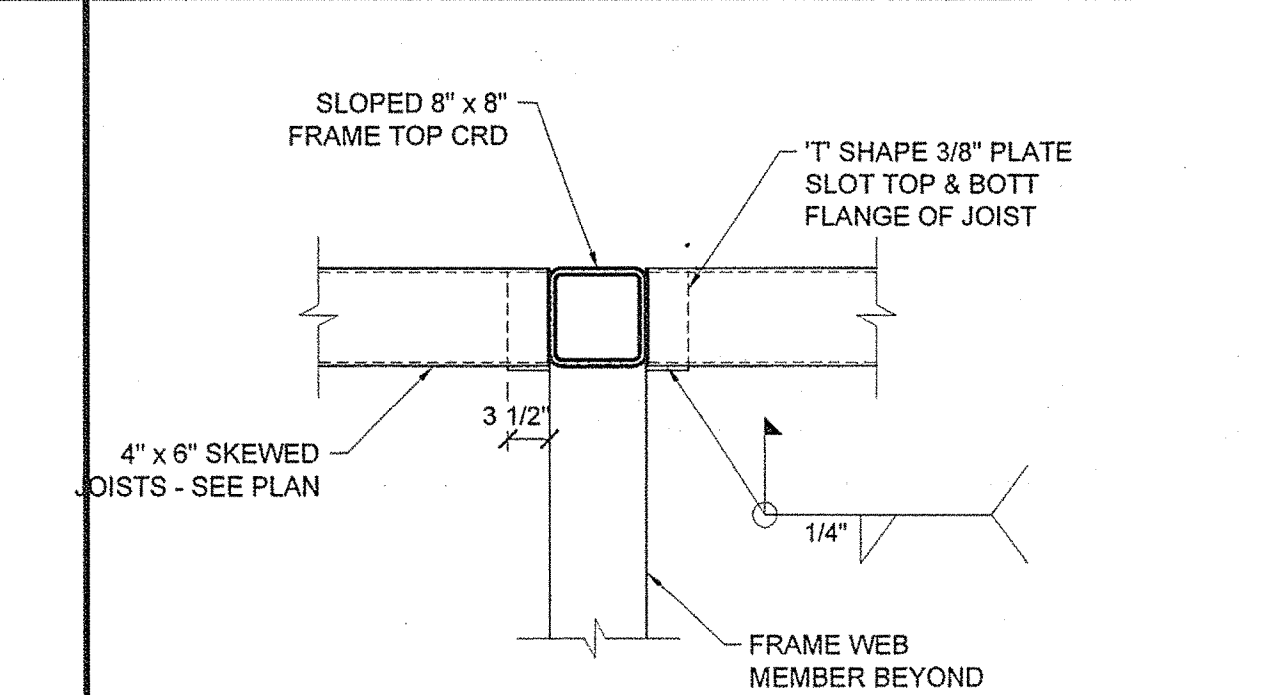
F4 FUELING STATION CANOPY FRAME TO COLUMN CONN.

3/4" = 1'-0"



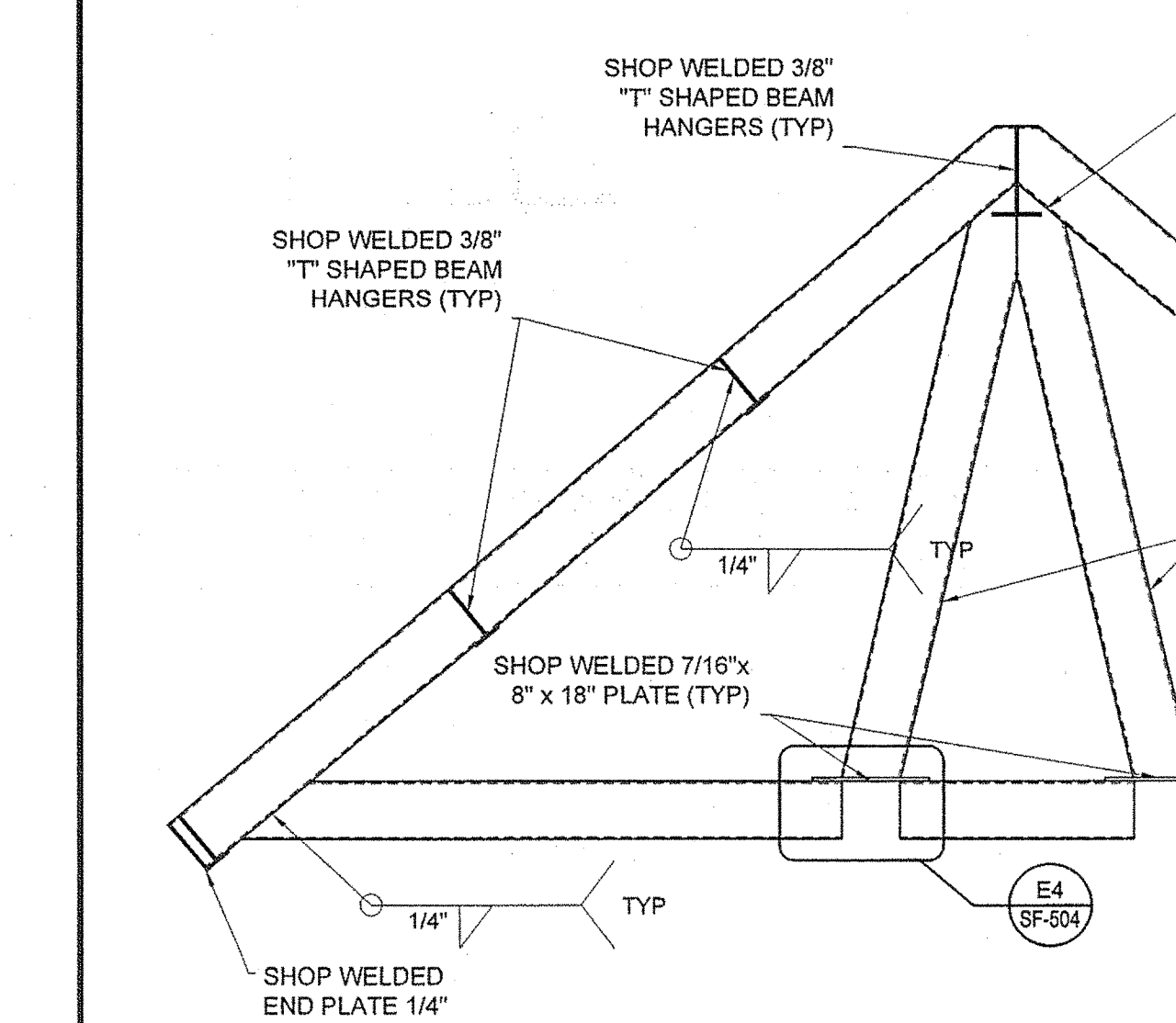
E4 FUELING STATION FRAME #2 TO BEAM CONN.

3/4" = 1'-0"



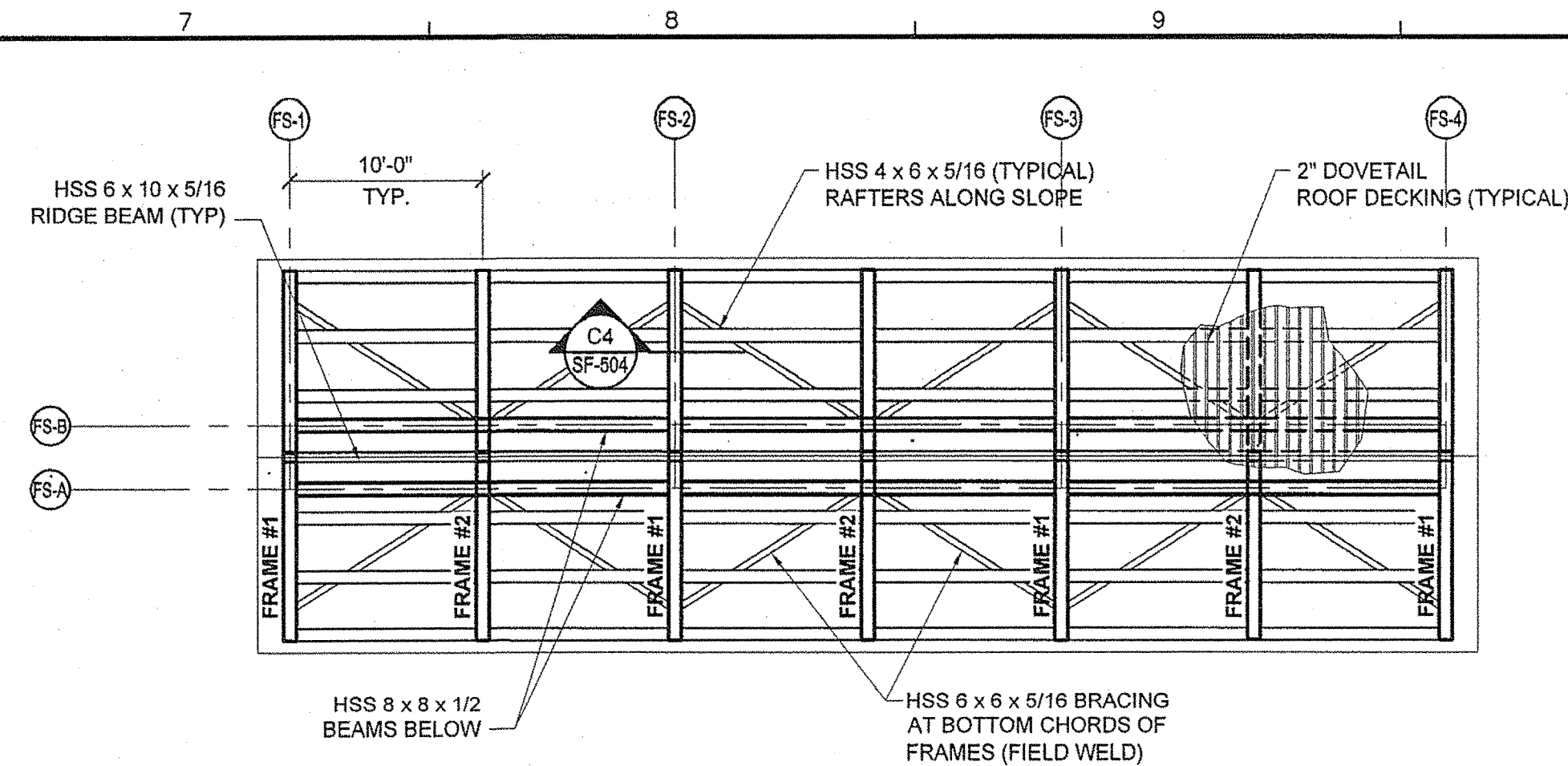
C4 FUELING STATION CANOPY FRAME TO JOIST CONN.

3/4" = 1'-0"



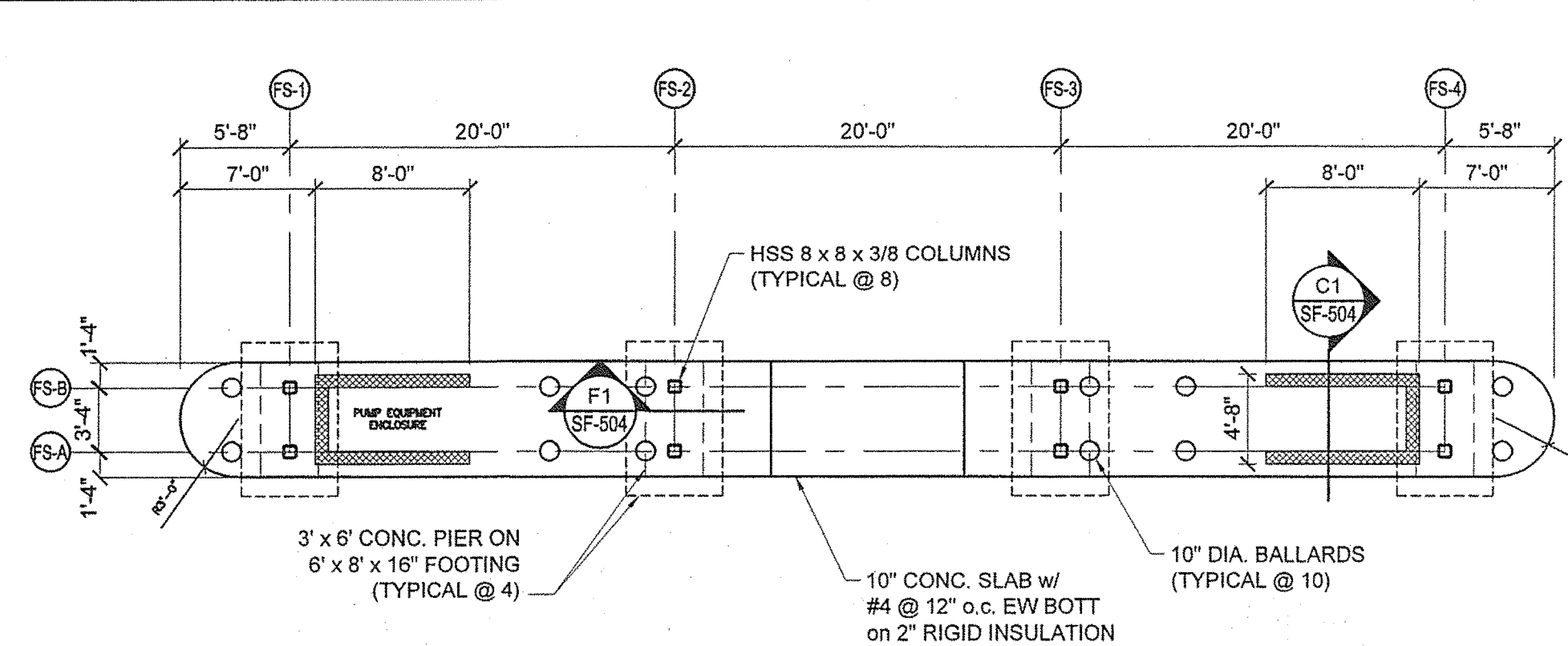
A4 FUELING STATION CANOPY - FRAME 2

1/2" = 1'-0"



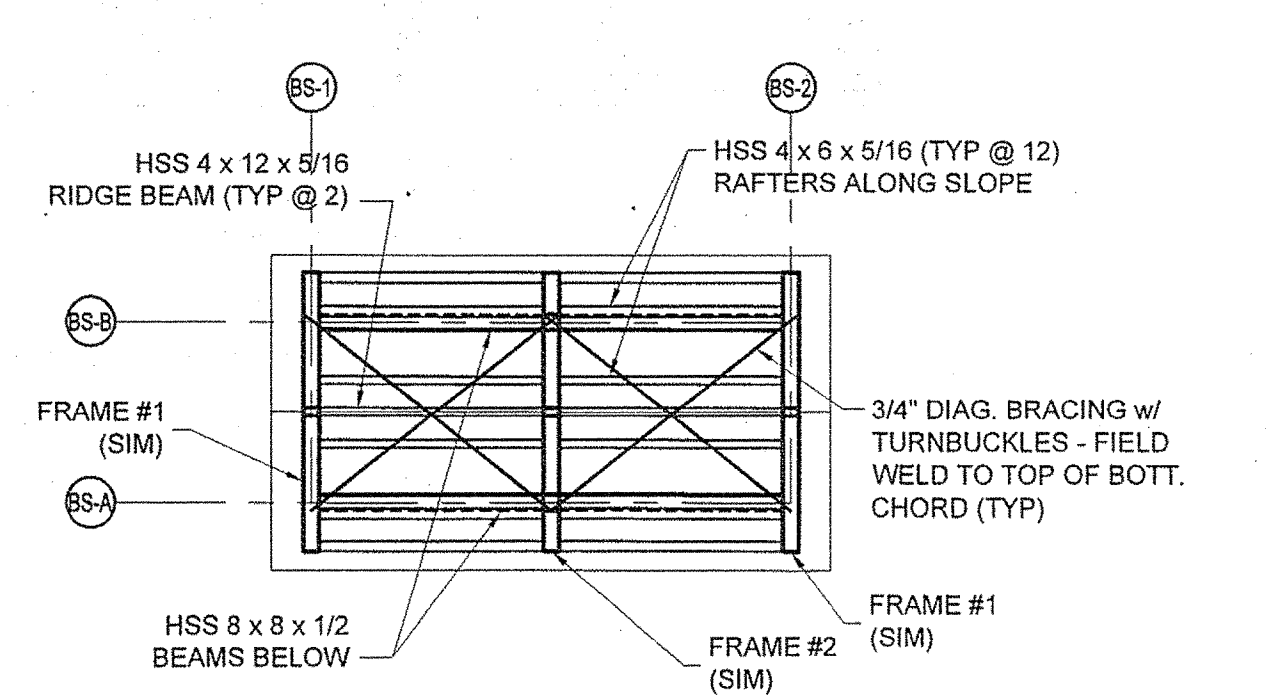
F7 STRUCTURAL PLAN ~ ROOF FRAMING - FUELING STATION

1/8" = 1'-0"



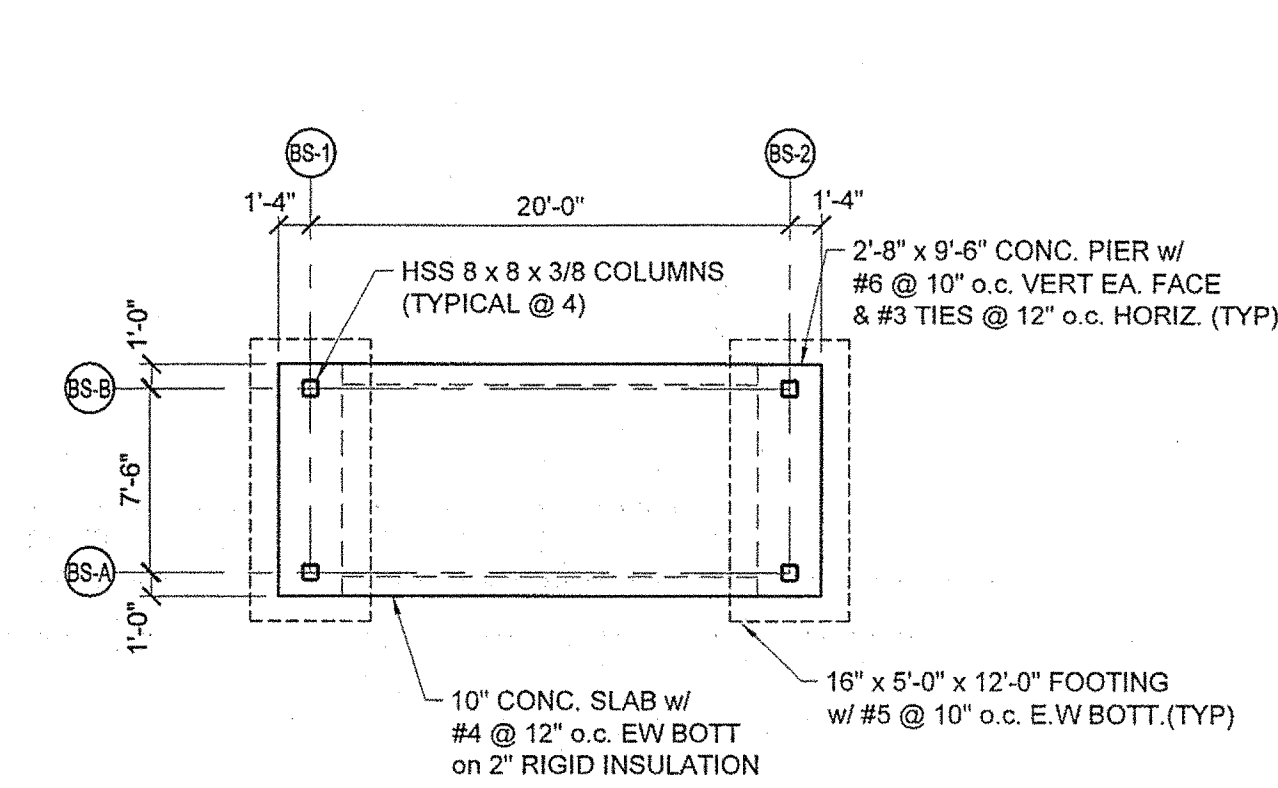
E7 STRUCTURAL PLAN ~ FOUNDATION - FUELING STATION

1/8" = 1'-0"



C8 STRUCTURAL PLAN ~ ROOF FRAMING - BUS SHELTER

1/8" = 1'-0"



A8 STRUCTURAL PLAN ~ FOUNDATION - BUS SHELTER

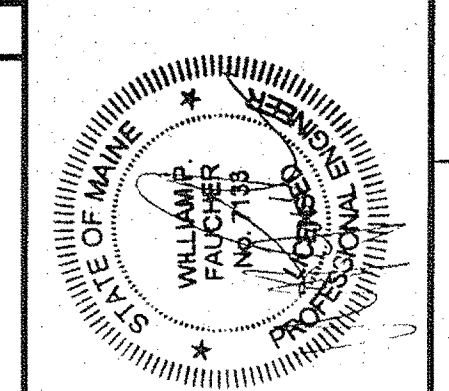
1/8" = 1'-0"

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Allied Project No: 07010

Cad File: 07010SF-504.DWG

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE
PROJECT NO: 07010SF-504		FED PIN NO:
CONTRACTOR: ALLIED ENGINEERING		PIN NO: 16123.50



SIGNATURE	7133
P.E. NUMBER	01 MAY 2009
DATE	

PROJECT	PROGRAM	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
MAINE DEPARTMENT OF TRANSPORTATION	ACADIA GATEWAY FACILITY	BUS MAINTENANCE FACILITY				

MAINE DEPARTMENT OF TRANSPORTATION	ACADIA GATEWAY FACILITY	BUS MAINTENANCE FACILITY
STRUCTURAL ~ FUELING STATION AND BUS SHELTER FRAMING PLANS AND DETAILS		

SHEET NUMBER A

SF-504

OF

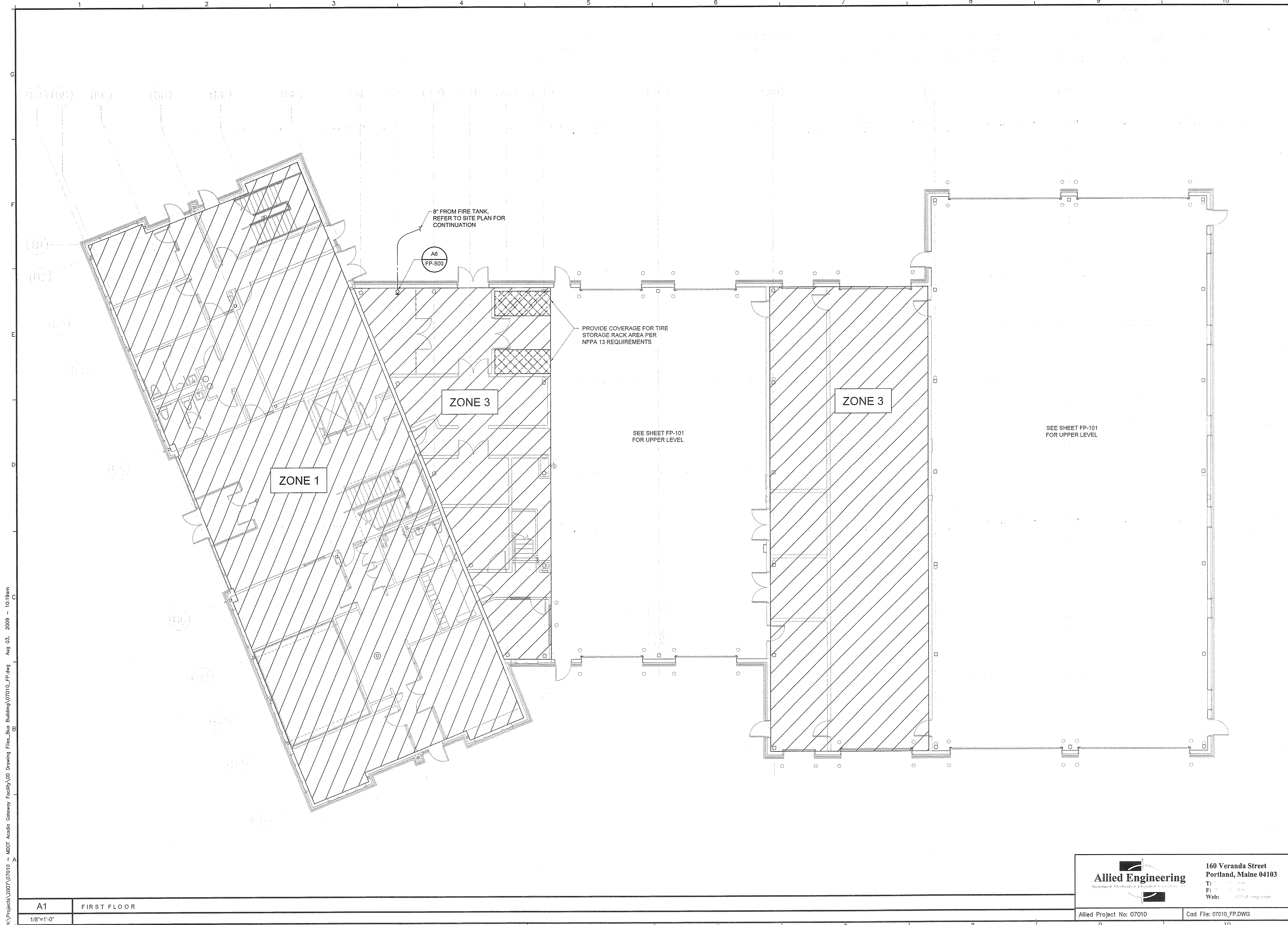
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Division: -

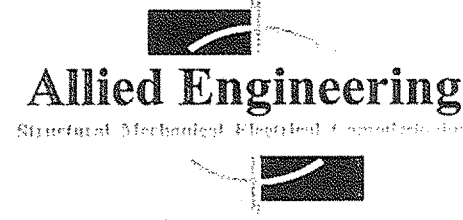
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A1 FIRST FLOOR
1/8"=1'-0"

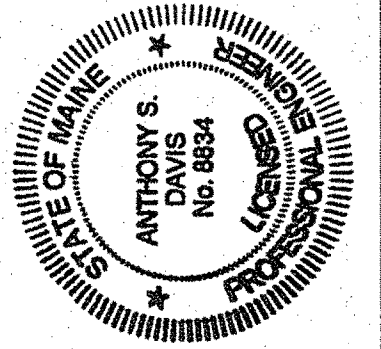


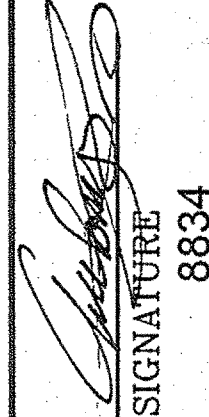
160 Veranda Street
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F: 207.761.1235
Web: allied-eng.com

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Cad File: 07010_FP.DWG

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DATE
FED PIN NO:
PIN NO: 16123.50





SIGNATURE
8834
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
-	-	WFP	-	ALLIED ENGINEERING	-	-	-

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

FIRE PROTECTION PLAN
FIRST FLOOR

SHEET NUMBER
FP-100
OF

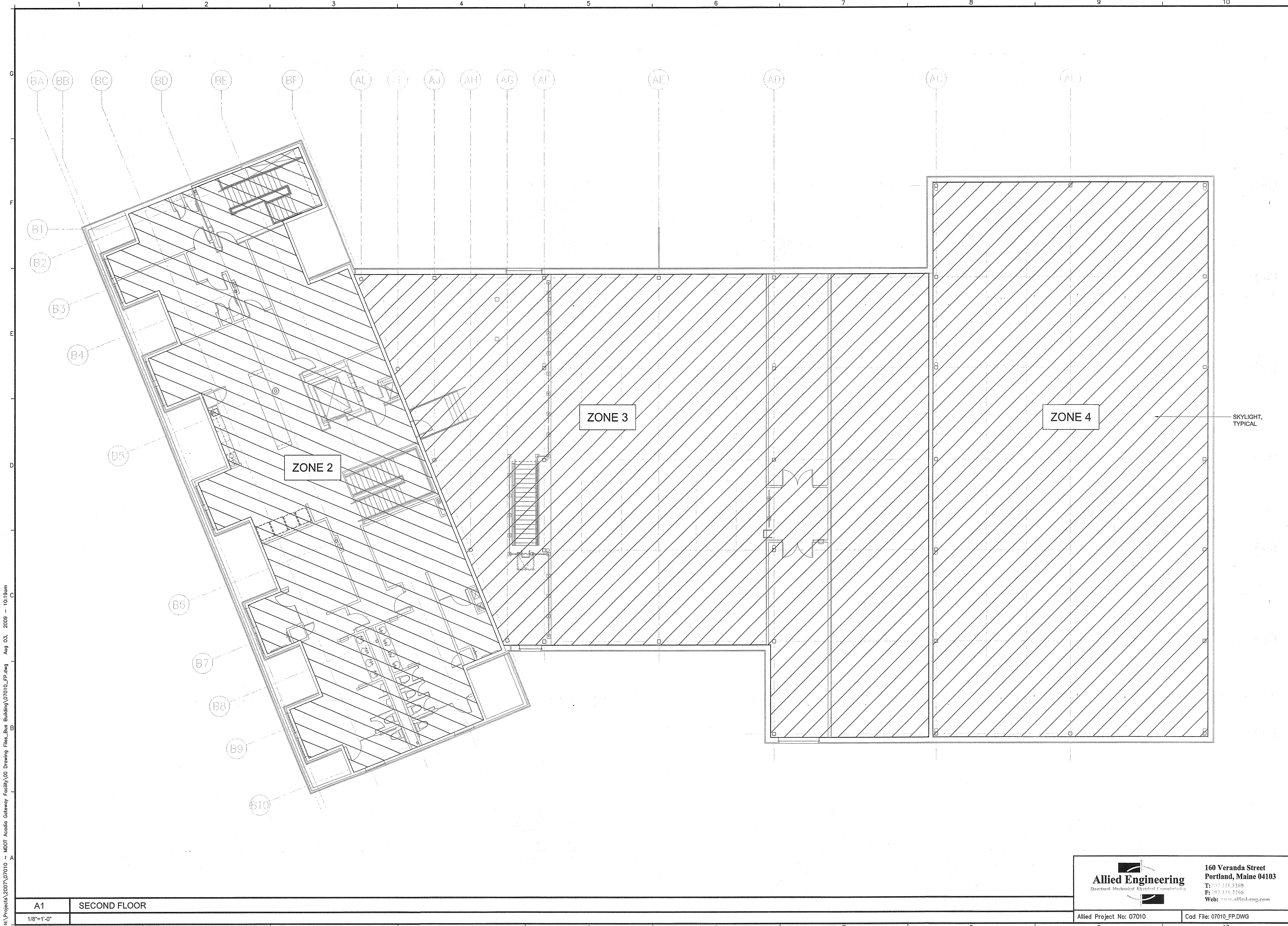
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Division: -

Date: -

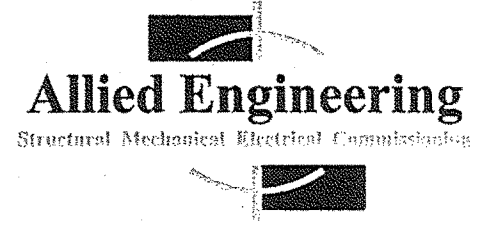
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SKYLIGHT, TYPICAL

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
FED PIN NO:		PIN NO: 16123.50	
SIGNATURE		P.E. NUMBER	
DATE		DATE	
PROJECT INFORMATION		PROJECT INFORMATION	
PROGRAM		PROJECT MANAGER	
DESIGNER		CONSULTANT	
PROJECT RESIDENT		CONTRACTOR	
PROJECT COMPLETION DATE		PROJECT COMPLETION DATE	
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		FIRE PROTECTION PLAN SECOND FLOOR	
SHEET NUMBER		FP-101	
OF		OF	



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Structural Mechanical Electrical Communications

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Allied Project No: 07010Cod File: 07010_FP.DWG

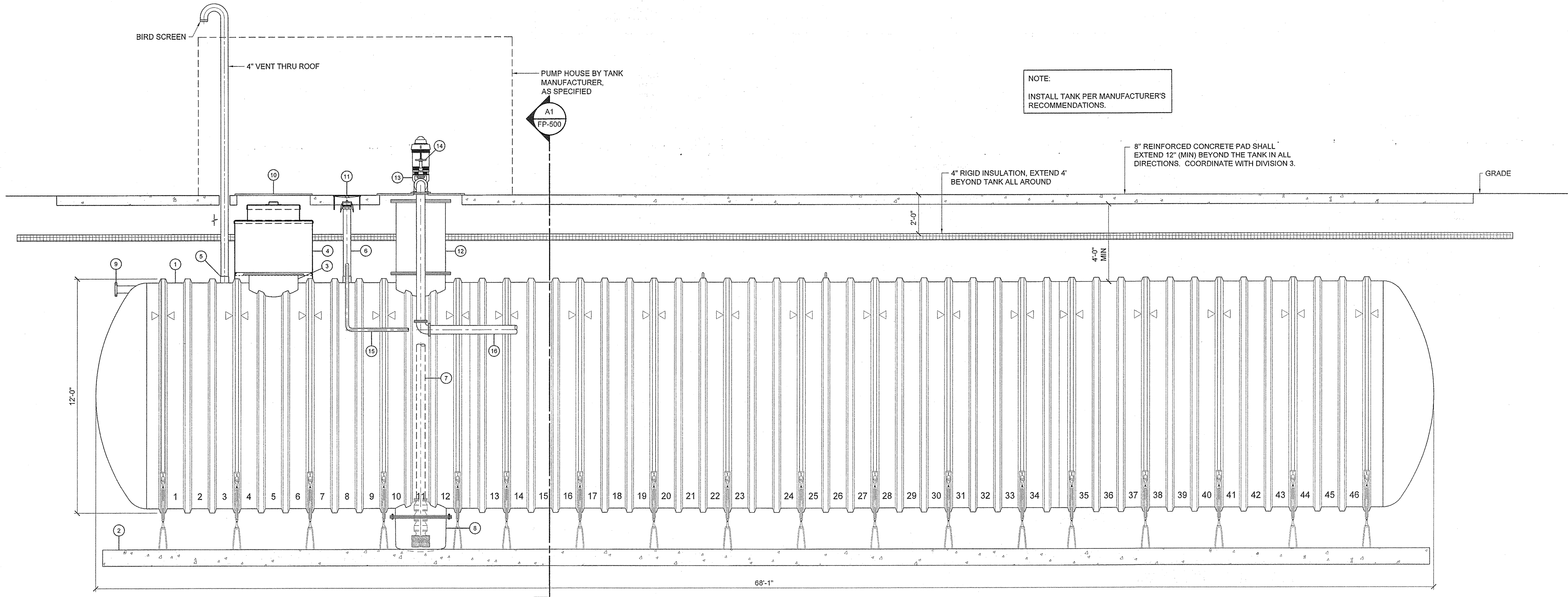
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Division: -

Date: -

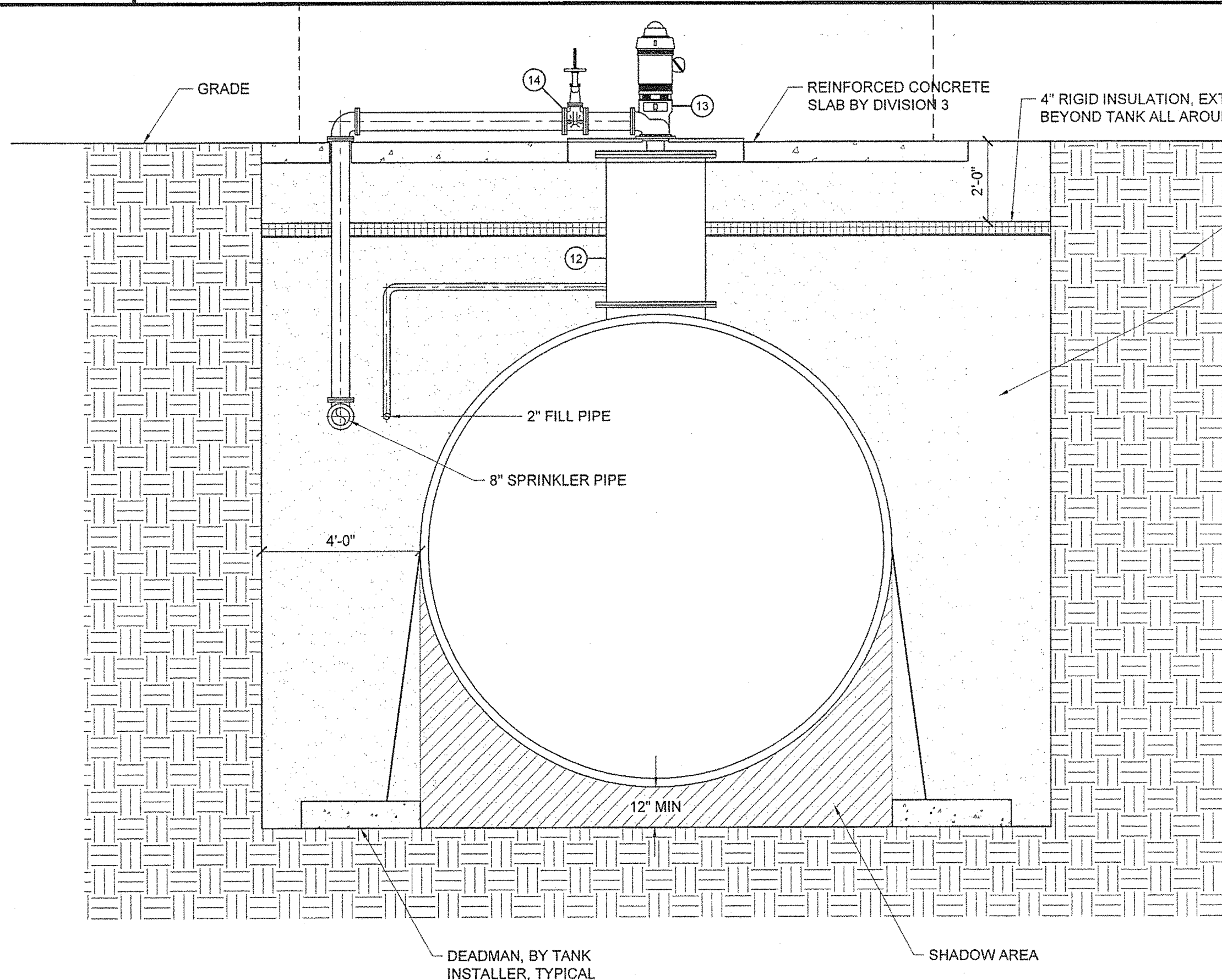
Filename: -

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D1 SPRINKLER WATER STORAGE TANK DETAIL

3/8"=1'-0"

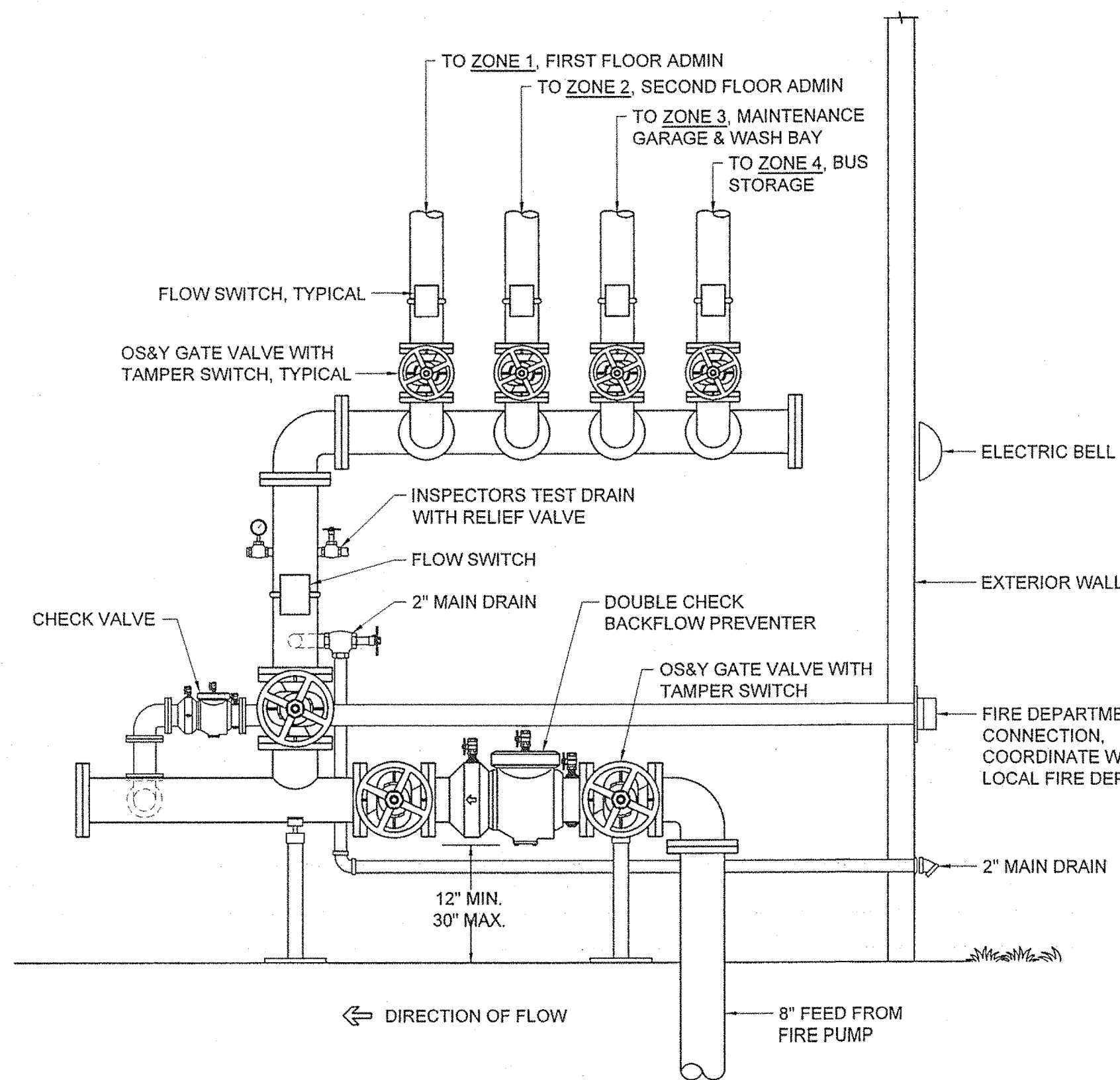


A1 SECTION

3/8"=1'-0"

BACKFILL REQUIREMENTS:

- BACKFILL SHALL BE PEA GRAVEL OR CRUSHED STONE, WASHED, FREE OF ICE, SNOW AND DEBRIS.
- PEA GRAVEL SHALL CONFORM TO THE SPECIFICATIONS OF ASTM C-33, PARAGRAPH 9.1, SIZES 6, 67 OR 7. CRUSHED STONE SHALL CONFORM TO ASTM C-33, PARAGRAPH 9.1, SIZES 7 OR 8.
- IN SITU SOIL SHALL NOT BE USED AS BACKFILL MATERIAL.



A6 SPRINKLER RISER DIAGRAM

NO SCALE

- 50,000 GAL SINGLE WALL FRP TANK
- PRECAST OR CAST-IN-PLACE DEADMAN SYSTEM WITH HOLD DOWN STRAP AND TURNBUCKLE ASSY BY TANK MANUFACTURER. FIELD VERIFY SITE CONDITIONS IN DETERMINING FINAL ANCHORING REQUIREMENTS.
- 30" MANWAY WITH GAUGE PLATES
- 48" DIA. COLLAR W/ 48" FRP RISER WITH 32" OPENING WITH 9" HIGH FF LID
- 4" VENT WITH GAUGE PLATE
- 4" FILL AND CAM LOCK CONNECTION WITH GAUGE PLATE
- 6" VERTICAL PUMP SHAFT HOUSING W/ BOWL ASSEMBLY & STRAINER
- 30" FRP FLANGED BOTTOM SUMP
- 4" FLANGED, CAPPED AND GUSSETED NOZZLE
- 48" ROUND MANHOLE
- 16" ROUND MANHOLE
- 30" MANWAY WITH EXTENSION
- VERTICAL PUMP WITH DISCHARGE HEAD & MOUNTING PLATE
- DISCHARGE VALVE & PIPING
- 2" FILL FROM MAINTENANCE GARAGE, COORDINATE WITH TANK MANUFACTURER FOR TANK CONNECTION REQUIREMENTS
- RUN PIPING AT 5' BELOW GRADE, MINIMUM. PIPING LESS THAN 5' BELOW GRADE SHALL INCORPORATE RIGID INSULATION 12" ABOVE PIPE, 1" THICK PER FOOT CLOSER THAN 5' TO GRADE. INSULATION SHALL EXTEND 24" EITHER SIDE OF PIPE.

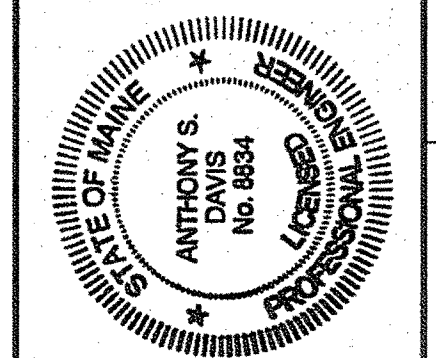
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Allied Project No: 07010

Cad File: 07010_FP.DWG

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FED PIN NO:	PIN NO: 16123.50



SIGNATURE
8834
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION	PROJECT	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
			WPF		ALLIED ENGINEERING			

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
**FIRE PROTECTION
STORAGE TANK DETAILS**

SHEET NUMBER

FP-500

OF

SHEET NUMBER
P-000
OF

Username: -

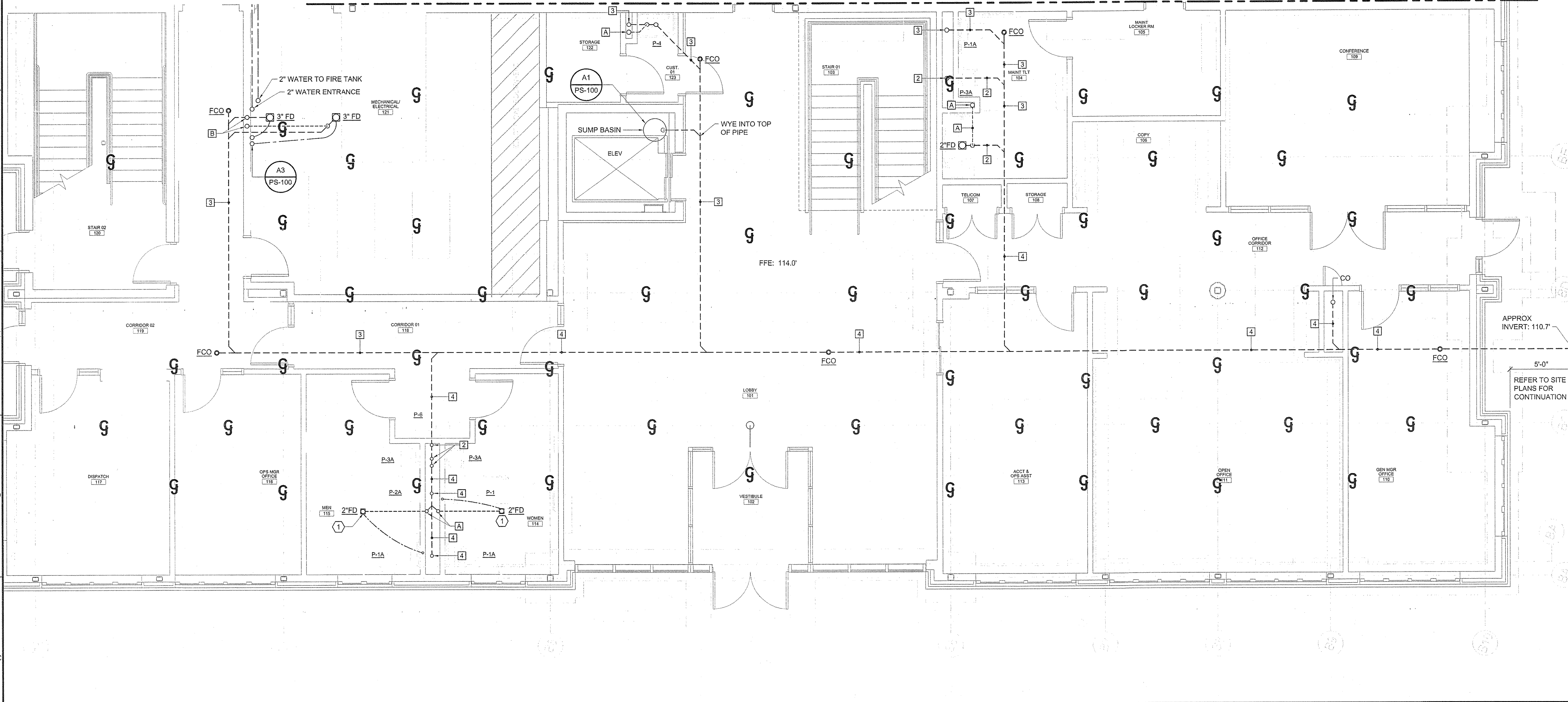
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Date: -

Filename: -

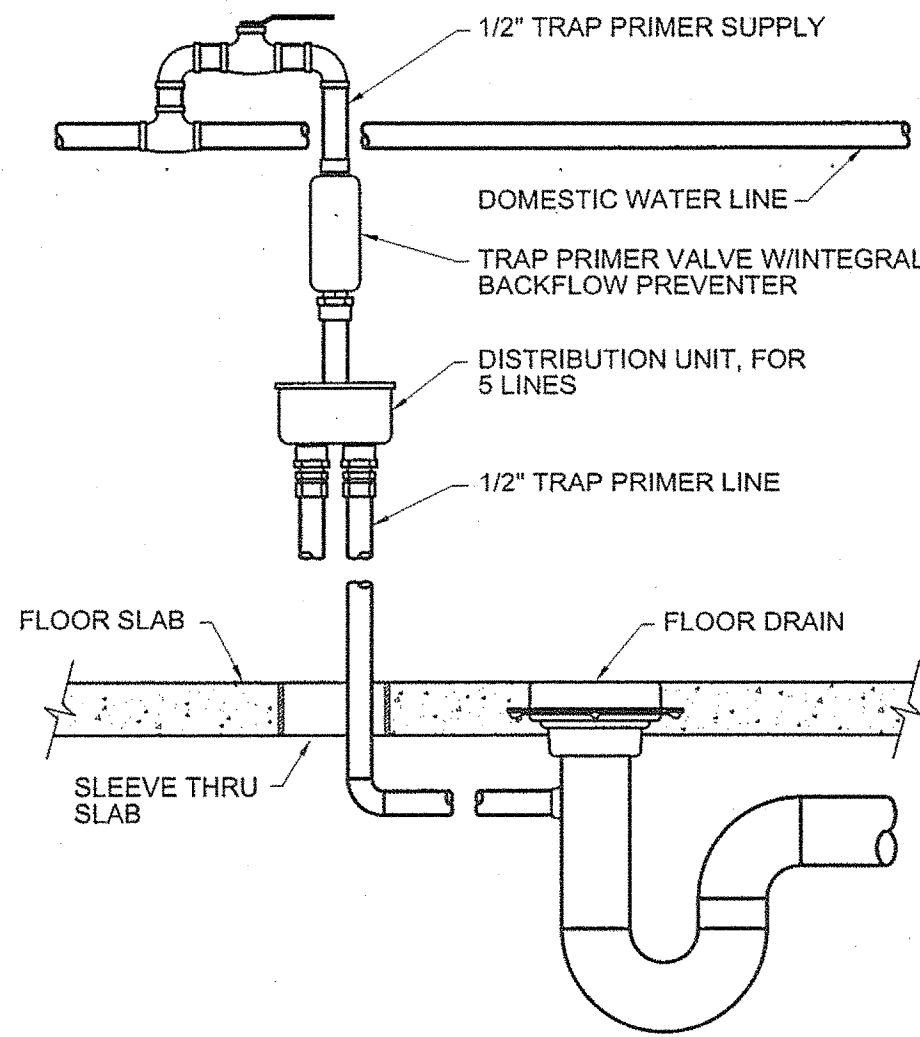
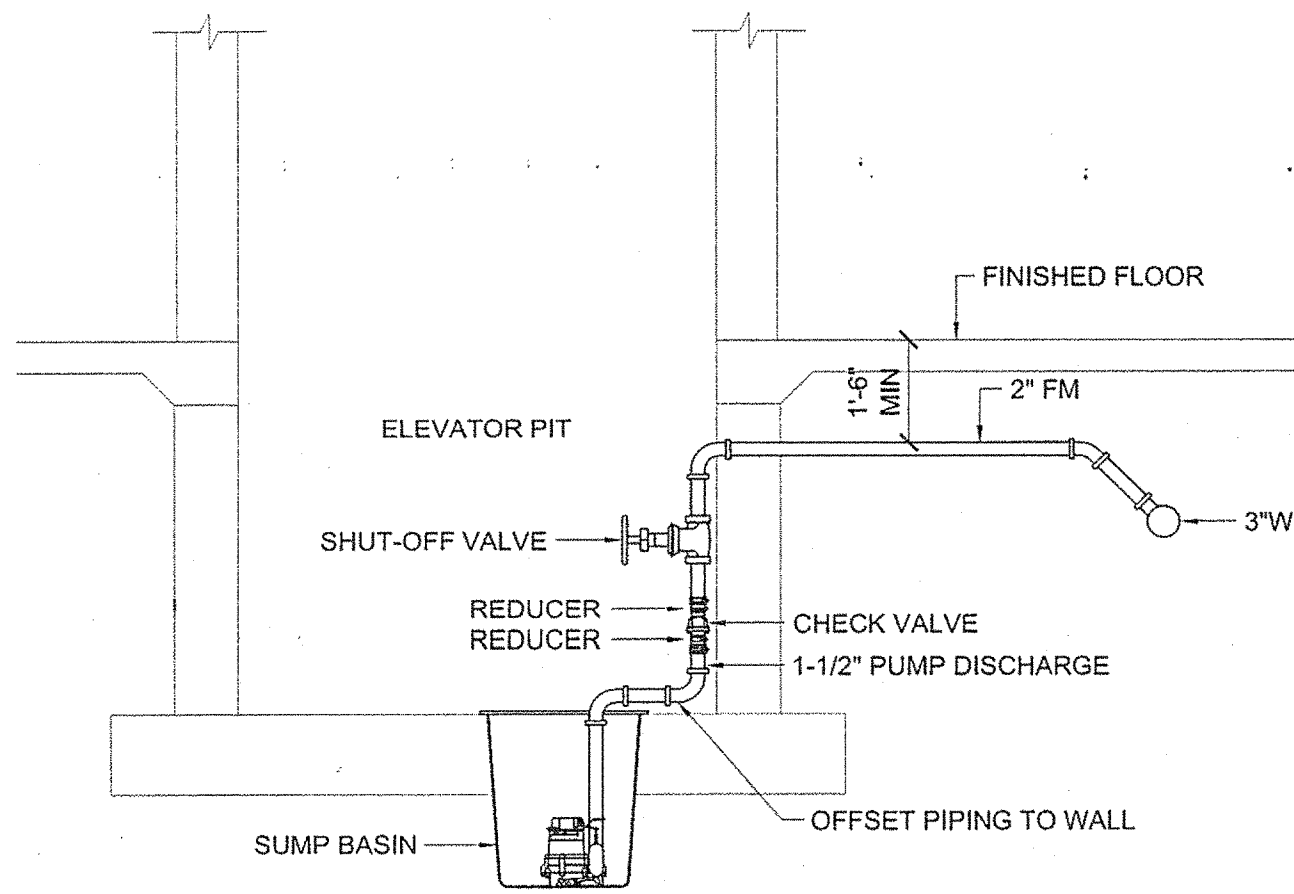
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MATCHLINE ~ SEE SHEET PS-101 FOR CONTINUATION



C1 PLUMBING PART PLAN ~ UNDERSLAB

1/4" = 1'-0"



- IT IS THE INTENT OF THESE DRAWINGS TO SHOW A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH THE CURRENT MAINE STATE PLUMBING CODE. ANY DEVIATIONS FROM THIS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS FOR PLUMBING FIXTURES AND EQUIPMENT PIPING CONNECTIONS. CONTRACTOR SHALL VERIFY ALL EQUIPMENT AND FIXTURE LOCATIONS ON SITE PRIOR TO INSTALLATION. USE MANUFACTURERS SPECS AND TEMPLATES FOR ALL PIPING CONNECTIONS TO FIXTURES AND EQUIPMENT PER SCHEDULES.
- THIS DIVISION SHALL EXTEND SANITARY, STORM, AND DOMESTIC WATER PIPING TO A POINT 5 FEET OUT FROM THE EXTERIOR FACE OF THE BUILDING. COORDINATE WITH DIVISION 2 FOR CONNECTION AT THIS POINT.
- METRA LOOP PIPING EXPANSION JOINTS SHALL BE INSTALLED AT ALL LOCATIONS WHERE PIPING CROSSES THE BUILDING EXPANSION JOINT.
- ALL WASTE PIPING SMALLER THAN 4" SHALL PITCH 1/4" PER FOOT AND ALL WASTE PIPING 4" AND LARGER SHALL PITCH 1/8" PER FOOT.
- CLEANOUTS SHALL BE PROVIDED AT THE BOTTOM OF ALL VERTICAL WASTE AND STORM DRAIN PIPING. NOT SHOWN ON DRAWINGS.

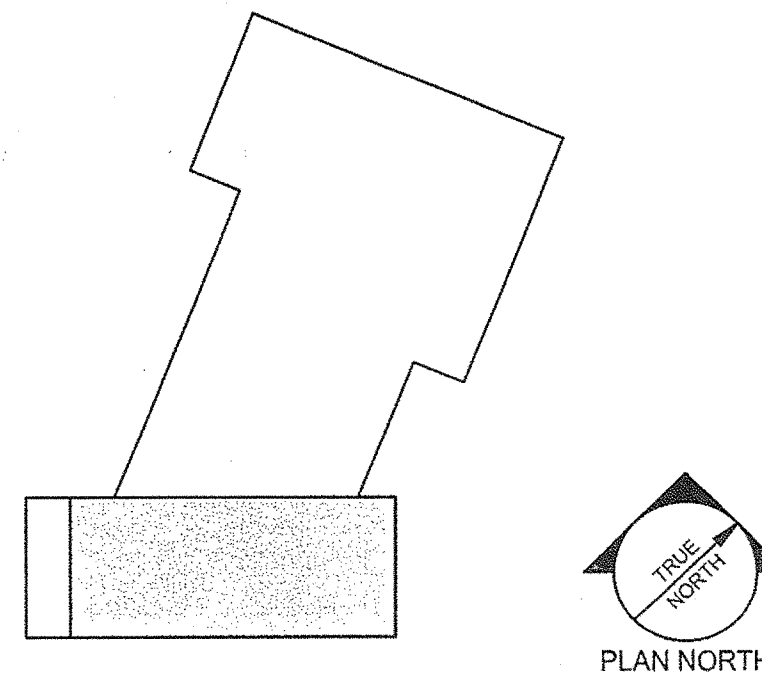
- ① CONNECT COLD WATER PIPE TO TRAP PRIMER FITTING ON FLOOR DRAIN. SEE A1/PS-104 FOR TRAP PRIMER CONNECTION DETAIL

VENT PIPING	
TAG	SIZE
A	1-1/2"
B	2"
C	2-1/2"
D	3"

REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE BRANCH SIZES

SANITARY AND STORM DRAIN PIPING	
TAG	SIZE
1	1-1/2"
2	2"
3	3"
4	4"
6	6"
8	8"

REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE BRANCH SIZES



A9 KEY PLAN

NO SCALE

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Cad File: 07010P.DWG

A5 GENERAL NOTES

NOTES PERTAIN TO ALL SHEETS

A9 KEY NOTES

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

PLUMBING PART PLAN
UNDERSLAB

SHEET NUMBER A

PS-100

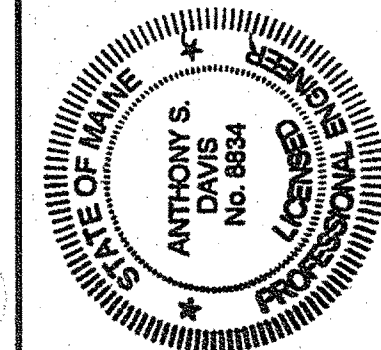
OF

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE

FED PIN NO:

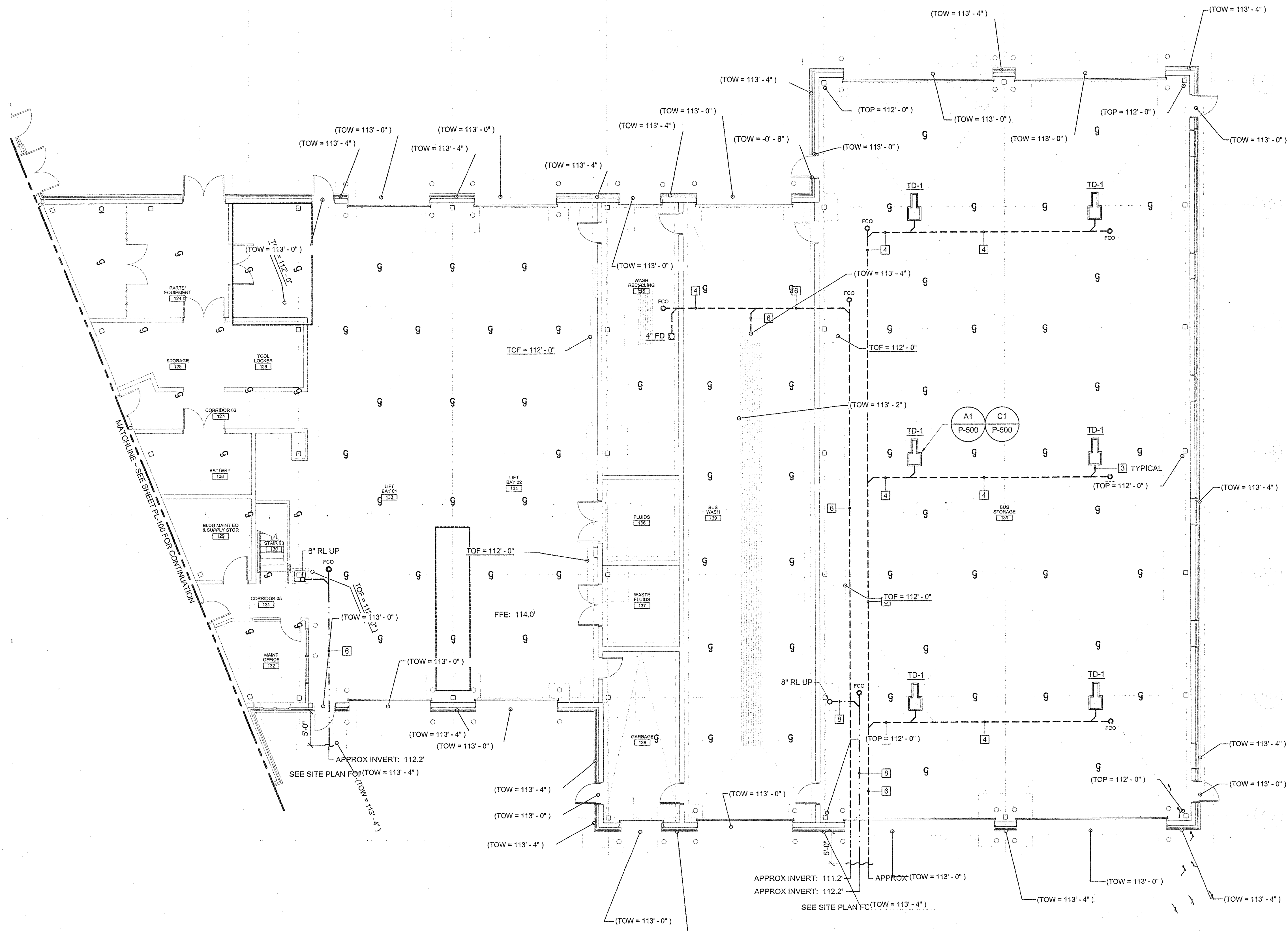
PIN NO: 16123.50



Anthony S. Davis
SIGNATURE
8834
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION

PROGRAM	-
PROJECT MANAGER	WFF
DESIGNER	-
CONSULTANT	ALLIED ENGINEERING
PROJECT RESIDENT	-
CONTRACTOR	-
PROJECT COMPLETION DATE	-

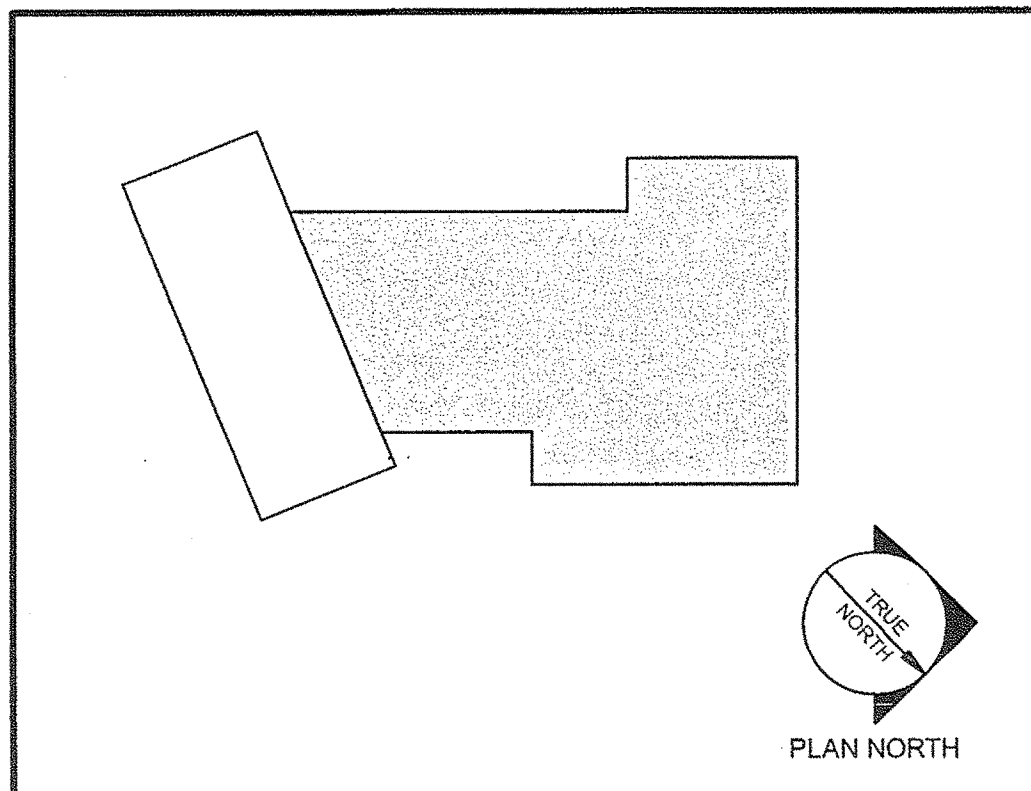



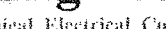
VENT PIPING	
TAG	SIZE
A	1-1/2"
B	2"
C	2-1/2"
D	3"


REFER TO PLUMBING
FIXTURE SCHEDULE
FOR FIXTURE
BRANCH SIZES

SANITARY AND STORM DRAIN PIPING		
<input type="checkbox"/>	TAG	SIZE
	1	1-1/2"
	2	2"
	3	3"
	4	4"
	6	6"
	8	8"

REFER TO PLUMBING
FIXTURE SCHEDULE
FOR FIXTURE
BRANCH SIZES



A9	KEY PLAN
NO SCALE	
 <p>Allied Engineering Structural • Mechanical • Electrical • Commissioning</p> 	
<p>160 Veranda Street Portland, Maine 04103</p> <p>T: 207.221.2260 F: 207.221.2266 Web: www.allied-eng.com</p>	
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SHEET NUMBER	PS-101		OF	
A	MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		B SANITARY PART PLAN UNDERSLAB	
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PROJECT INFORMATION PROGRAM — PROJECT MANAGER — DESIGNER — CONSULTANT — PROJECT RESIDENT — CONTRACTOR — PROJECT COMPLETION DATE —			D — — — — — —	
E 			F SIGNATURE 8834 P. E. NUMBER 01 MAY, 2009 DATE	
G STATE OF MAINE DEPARTMENT OF TRANSPORTATION DATE			H STATE OF MAINE ANTHONY S. DAVIS No. 8834 PROFESSIONAL ENGINEER 16123.50 PIN NO.	

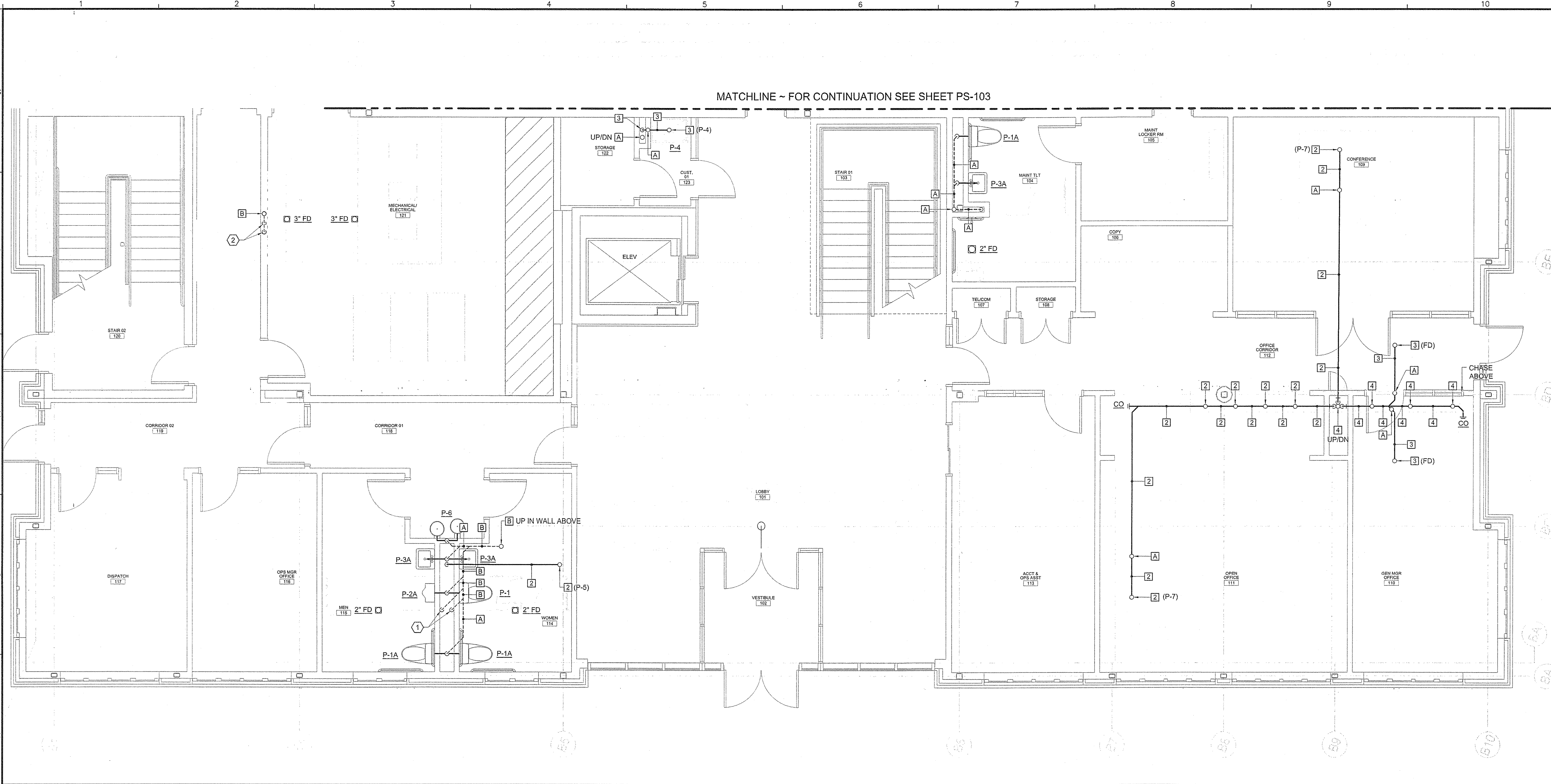
Username: -

Division: -

Date: -

Filename: -

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C1 SANITARY PART PLAN ~ FIRST FLOOR
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE					
TAG	DESCRIPTION	BRANCH SIZES			NOTES
		CW	HW	W	
P-1	WATER CLOSET, WALL MOUNT	1"	-	2"	PROVIDE TRAP PRIMER ELBOW WHERE INDICATED ON DWGS
P-1A	WATER CLOSET, WALL MOUNT ~ ADA	1"	-	2"	
P-2	URINAL	1/2"	-	1-1/2"	2"
P-2A	URINAL, ADA	1/2"	-	1-1/2"	
P-3	LAVATORY, WALL MOUNT	1/2"	1/2"	1-1/2"	2"
P-3A	LAVATORY, WALL MOUNT ~ ADA	1/2"	1/2"	1-1/2"	2"
P-3B	LAVATORY, COUNTER MOUNT ~ ADA	1/2"	1/2"	1-1/2"	2"
P-4	JANITOR SINK	3/4"	3/4"	1-1/2"	2"
P-5	BREAK ROOM SINK	1/2"	1/2"	1-1/2"	2"
P-6	BI-LEVEL ELECTRIC WATER COOLER ~ ADA	1/2"	-	1-1/2"	1-1/2"
P-7	SHOWER, PREFABRICATED	1/2"	1/2"	1-1/2"	2"
P-8	SHOWER, FIELD-BUILT SURROUND	1/2"	1/2"	1-1/2"	2"
P-10	EMERGENCY EYE/FACE WASH ~ ADA	1/2"	1/2"	1-1/2"	2"
DW	DISHWASHER	-	1/2"	1-1/2"	2"
HB	HOSE BIBB	3/4"	-	-	
WH	WALL HYDRANT	3/4"	-	-	-
2"FD	FLOOR DRAIN	-	-	1-1/2"	2"
3"FD	FLOOR DRAIN	-	-	2"	3"
TD	TRENCH DRAIN	-	-	-	3"

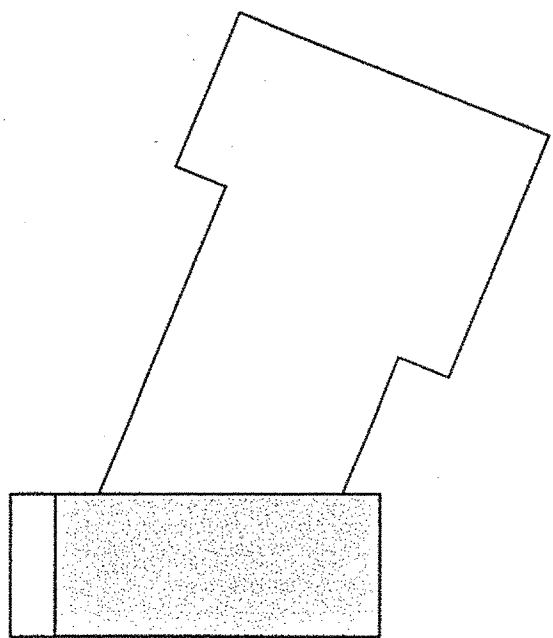
VENT PIPING	
TAG	SIZE
A	1-1/2"
B	2"
C	2-1/2"
D	3"

REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE BRANCH SIZES

SANITARY AND STORM DRAIN PIPING	
TAG	SIZE
1	1-1/2"
2	2"
3	3"
4	4"
6	6"
8	8"

REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE BRANCH SIZES

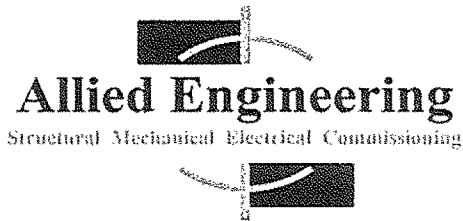
- ① 1-1/2" FLOOR DRAIN VENT DN
② 2" FLOOR DRAIN VENT DN



A9

KEY PLAN

NO SCALE

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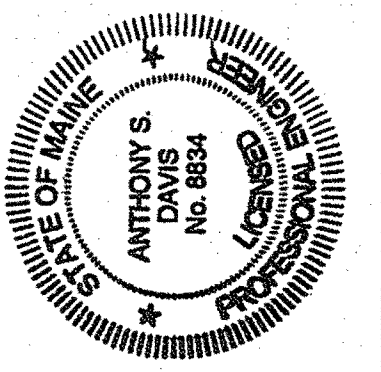
Allied Project No: 07010

Cad File: 07010P.DWG

A9 KEY NOTES

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE
FED PIN NO:
PIN NO: 16123.50


SIGNATURE
P.E. NUMBER 8834
DATE 01 MAY 2009

PROJECT INFORMATION
PROGRAM -
PROJECT MANAGER WPF
DESIGNER -
CONSULTANT ALLIED ENGINEERING
PROJECT RESIDENT -
CONTRACTOR -
PROJECT COMPLETION DATE -

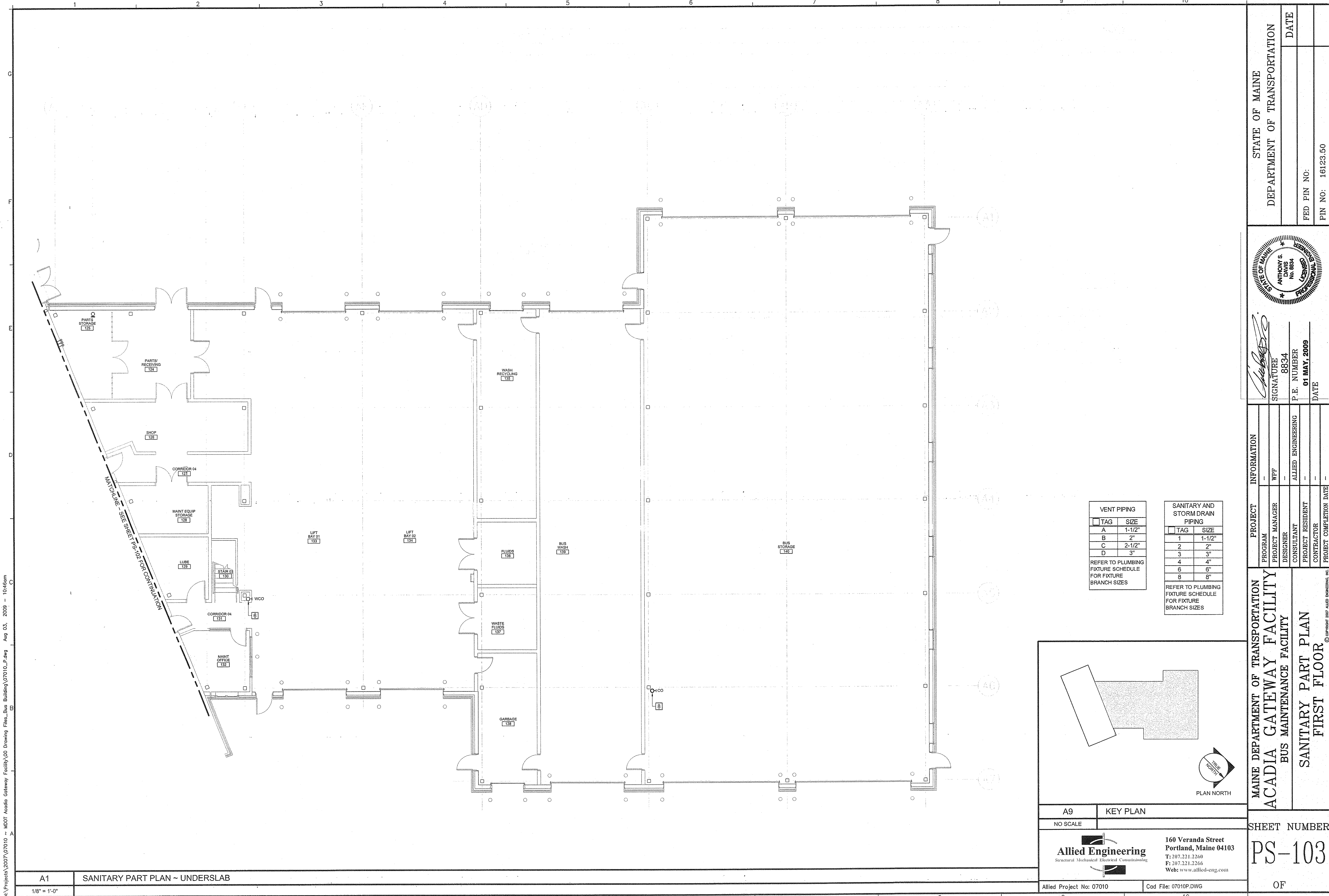
MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

SANITARY PART PLAN
FIRST FLOOR

SHEET NUMBER

PS-102

OF

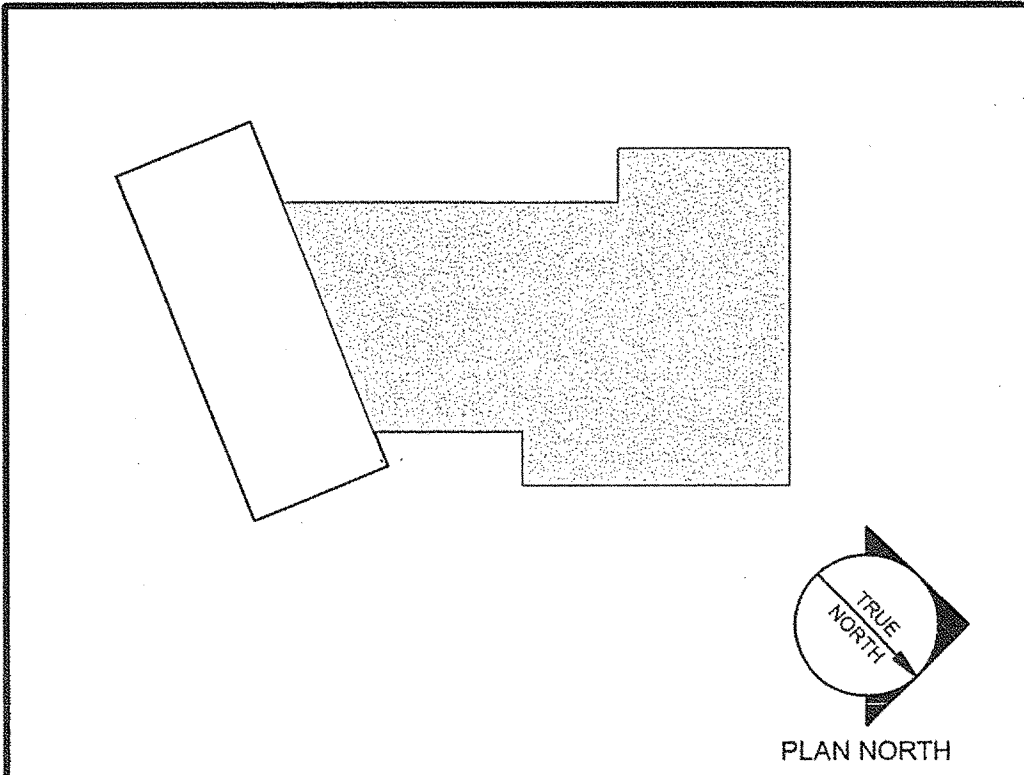


VENT PIPING	
TAG	SIZE
A	1-1/2"
B	2"
C	2-1/2"
D	3"

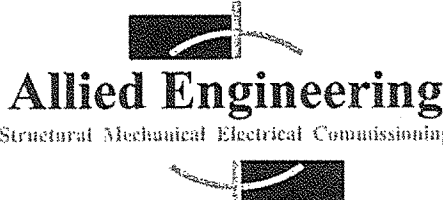
REFER TO PLUMBING
FIXTURE SCHEDULE
FOR FIXTURE
BRANCH SIZES

SANITARY AND STORM DRAIN PIPING	
TAG	SIZE
1	1-1/2"
2	2"
3	3"
4	4"
6	6"
8	8"

REFER TO PLUMBING
FIXTURE SCHEDULE
FOR FIXTURE
BRANCH SIZES



A9	KEY PLAN
NO SCALE	

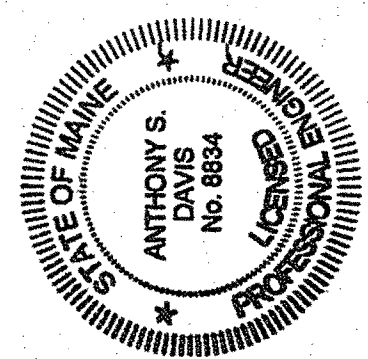


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Allied Project No: 07010 Cad File: 07010P.DWG

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
		FED P/N NO:	PIN NO: 16123.50



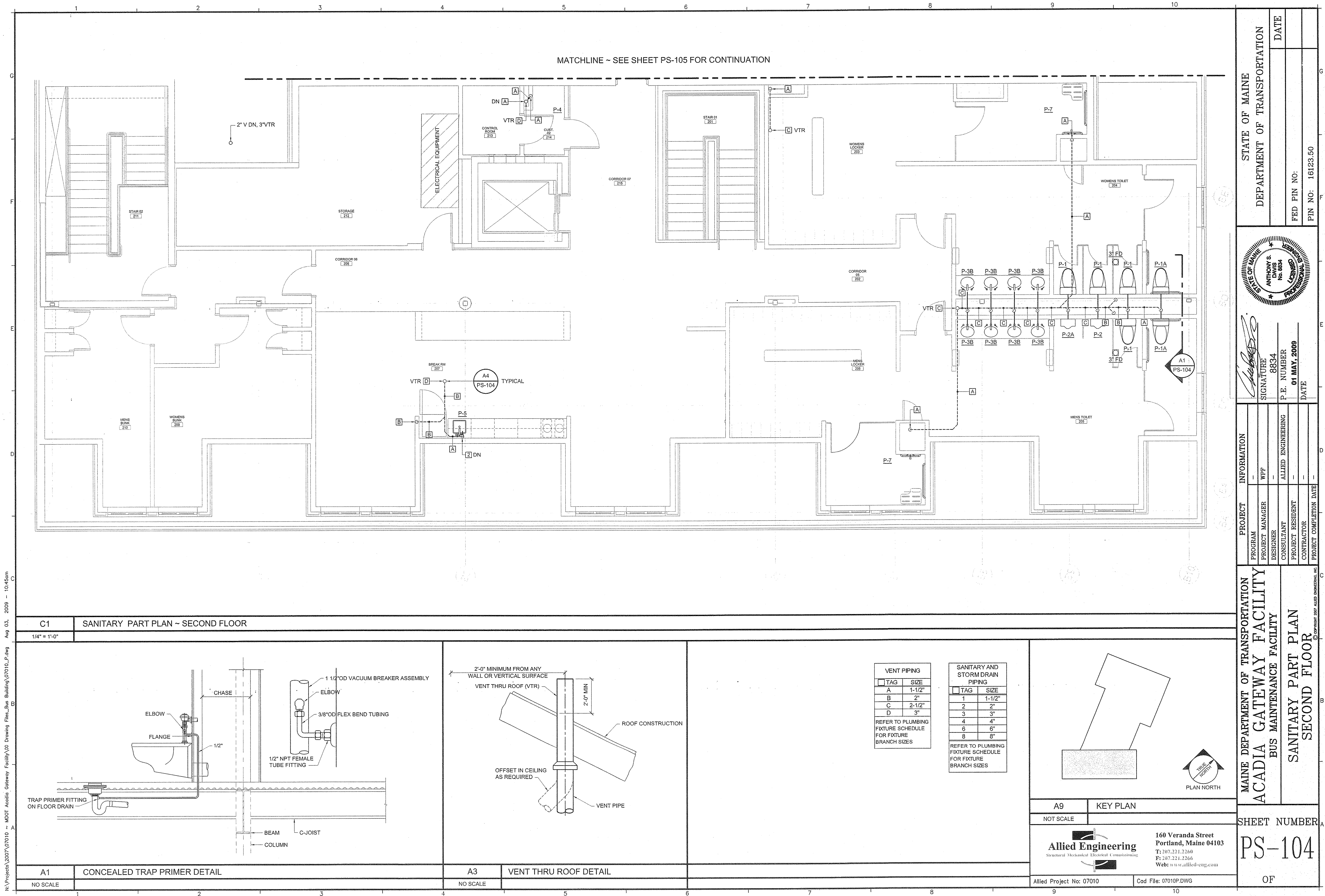
Anthony S. Davis
SIGNATURE
8834
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
	-	WPF	-	ALLIED ENGINEERING	-	-	-

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

SANITARY PART PLAN
FIRST FLOOR

SHEET NUMBER **PS-103** OF



MATCHLINE ~ SEE SHEET PS-105 FOR CONTINUATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

ANTHONY S. DAVIS
No. 8834
Professional Engineer

SIGNATURE
8834
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION

PROGRAM
PROJECT MANAGER
DESIGNER
CONSULTANT
PROJECT RESIDENT
CONTRACTOR

-
WPF
-
ALLIED ENGINEERING
-
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MAIN DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

SANITARY PART PLAN
SECOND FLOOR

SHEET NUMBER
PS-104

OF

DATE
FED PIN NO:
PIN NO: 16123.50

C1
1/4" = 1'-0"

SANITARY PART PLAN ~ SECOND FLOOR

A1
NO SCALE

CONCEALED TRAP PRIMER DETAIL

A3
NO SCALE

VENT THRU ROOF DETAIL

A9
NOT SCALE

KEY PLAN

Allied Engineering
Structural Mechanical Electrical Commissioning

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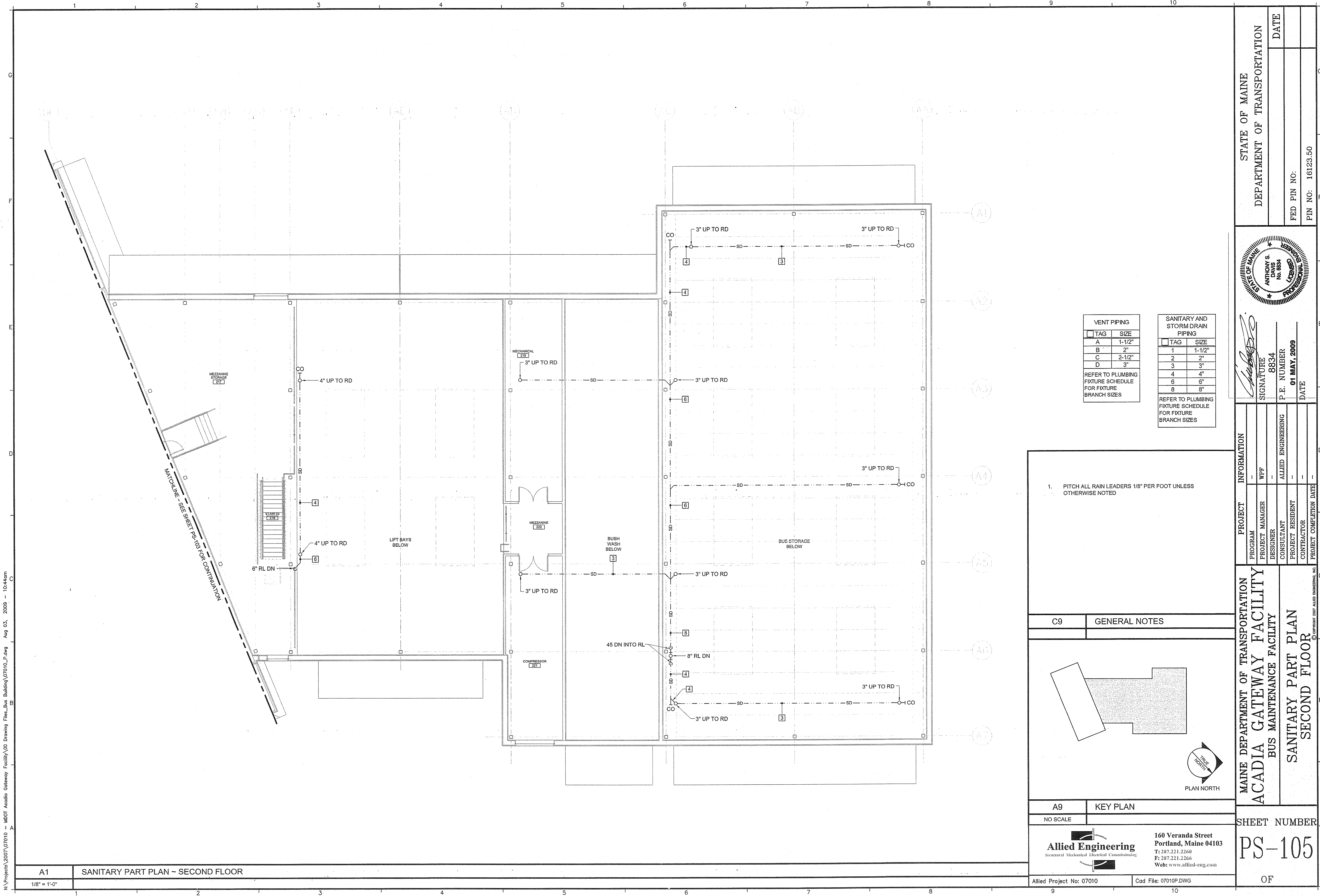
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VENT PIPING	
TAG	SIZE
A	1-1/2"
B	2"
C	2-1/2"
D	3"

REFER TO PLUMBING
FIXTURE SCHEDULE
FOR FIXTURE
BRANCH SIZES

SANITARY AND STORM DRAIN PIPING	
TAG	SIZE
1	1-1/2"
2	2"
3	3"
4	4"
6	6"
8	8"

REFER TO PLUMBING
FIXTURE SCHEDULE
FOR FIXTURE
BRANCH SIZES

1. PITCH ALL RAIN LEADERS 1/8" PER FOOT UNLESS OTHERWISE NOTED

PLAN NORTH

NO SCALE

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Structural Mechanical Electrical Commissioning

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Allied Project No: 07010 Cad File: 07010P.DWG

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
8834
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION

PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
-	-	-	ALLIED ENGINEERING	-	-	-

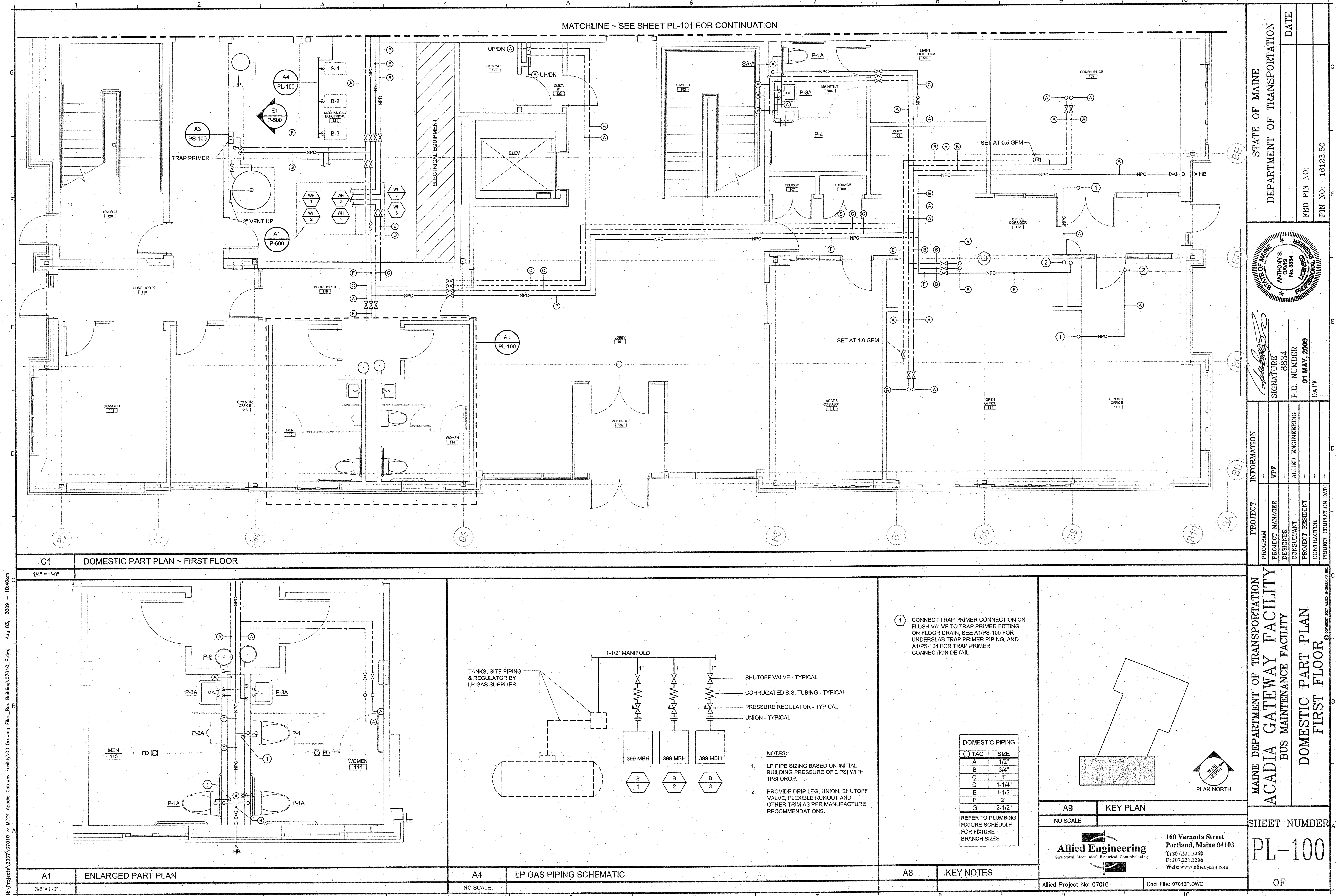
MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

SANITARY PART PLAN
SECOND FLOOR

SHEET NUMBER A

PS-105

OF



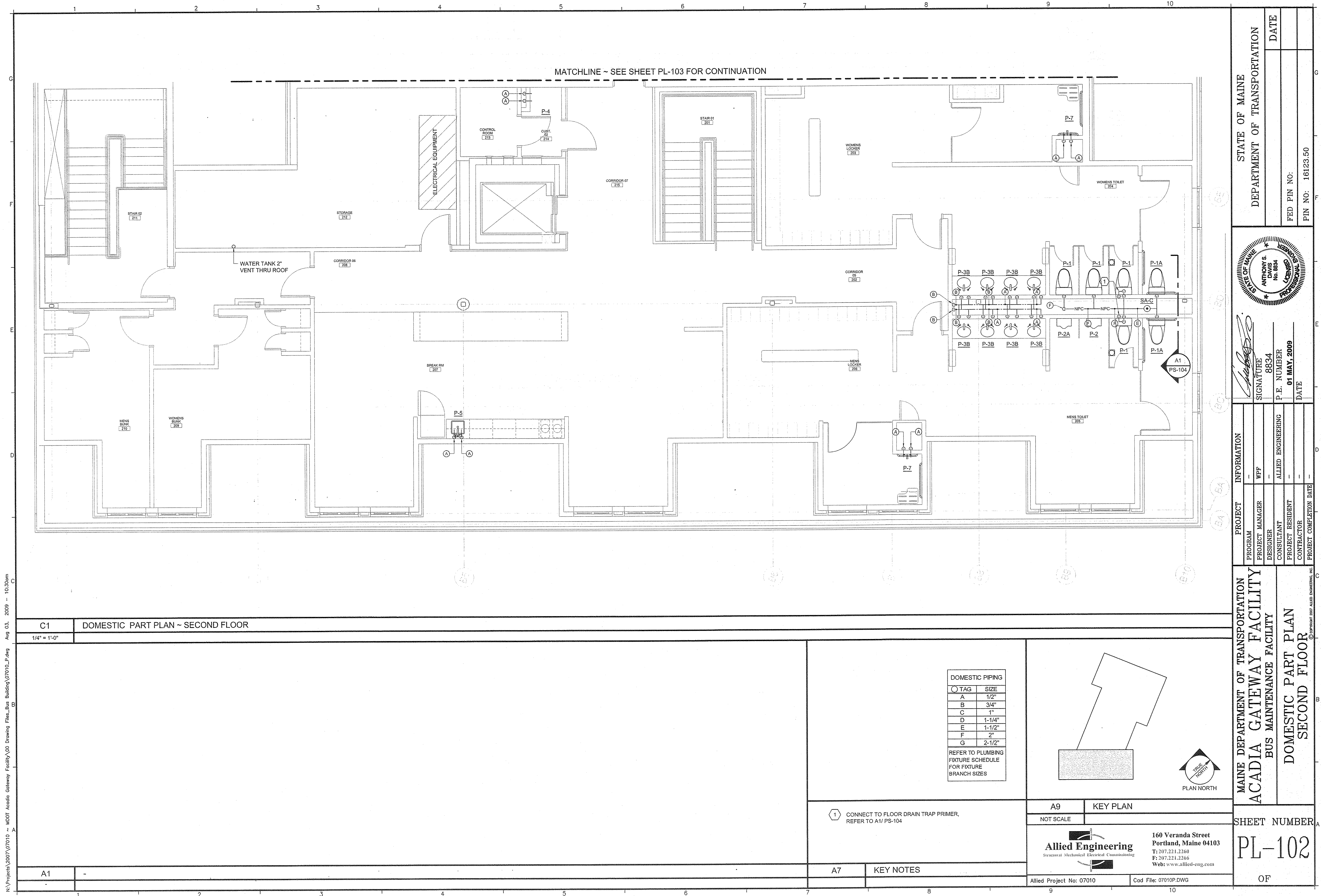
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Username: -

Division: -

Date: -

Filename: -

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C1		DOMESTIC PART PLAN ~ SECOND FLOOR	
1/4" = 1'-0"			
A1			
A7		KEY NOTES	
		1 CONNECT TO FLOOR DRAIN TRAP PRIMER, REFER TO A17 PS-104	
		DOMESTIC PIPING	
		REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE BRANCH SIZES	
		KEY PLAN	
		NOT SCALE	
		Allied Engineering	
		160 Veranda Street	
		Portland, Maine 04103	
		T: 207.221.2260	
		F: 207.221.2266	
		Web: www.allied-eng.com	
		Allied Project No: 07010	
		Cad File: 07010P.DWG	
		SHEET NUMBER	
		PL-102	
		OF	

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
DATE		FED PIN NO:	
		PIN NO: 16123.50	
PROJECT INFORMATION		SIGNATURE	
PROGRAM		P.E. NUMBER	
PROJECT MANAGER		DATE	
DESIGNER			
CONSULTANT			
PROJECT RESIDENT			
CONTRACTOR			
PROJECT COMPLETION DATE			

MAINE DEPARTMENT OF TRANSPORTATION		ACADIA GATEWAY FACILITY	
		BUS MAINTENANCE FACILITY	
		DOMESTIC PART PLAN	
		SECOND FLOOR	
		SHEET NUMBER	
		PL-102	
		OF	

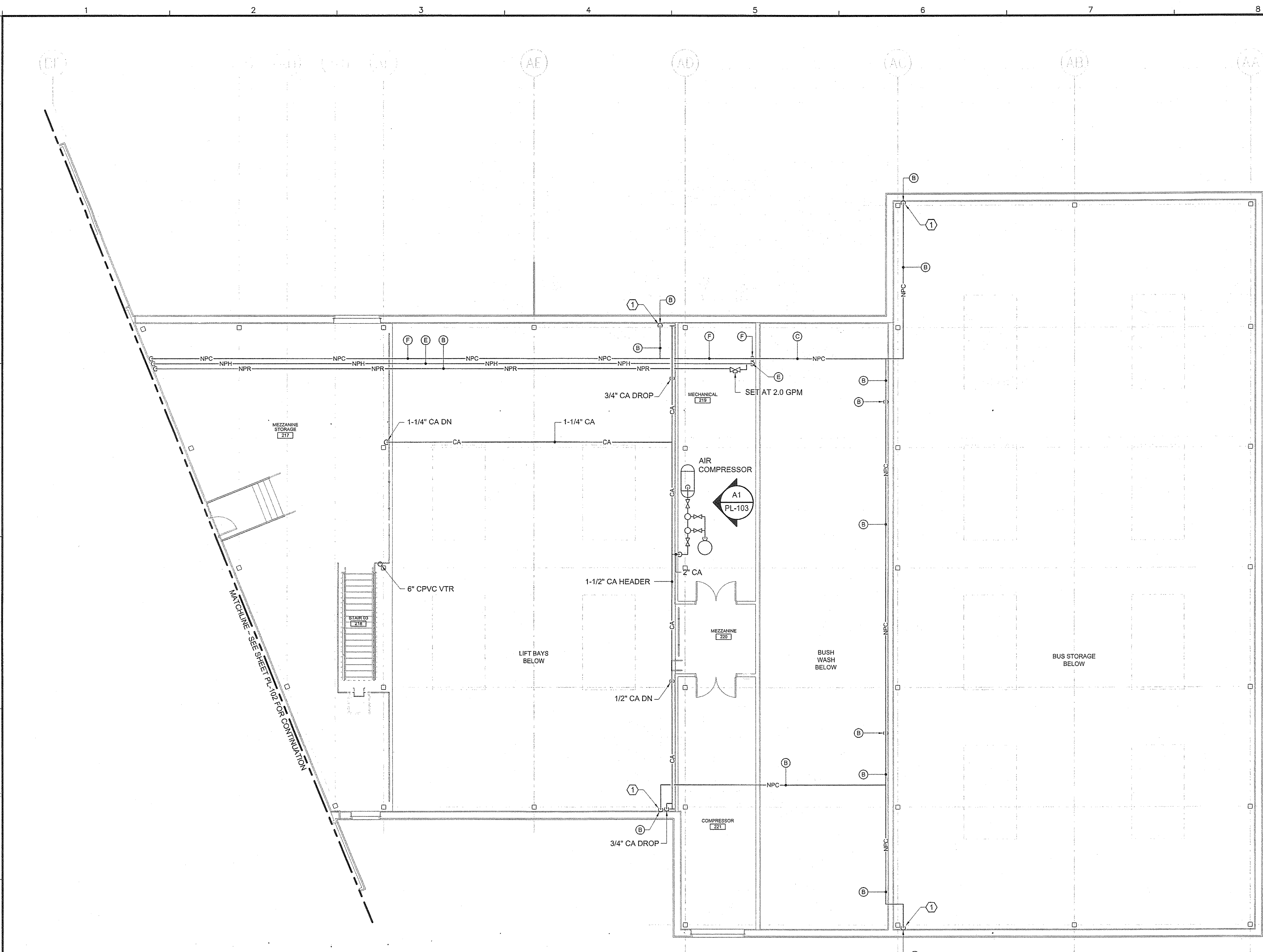
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Division: -

Date: -

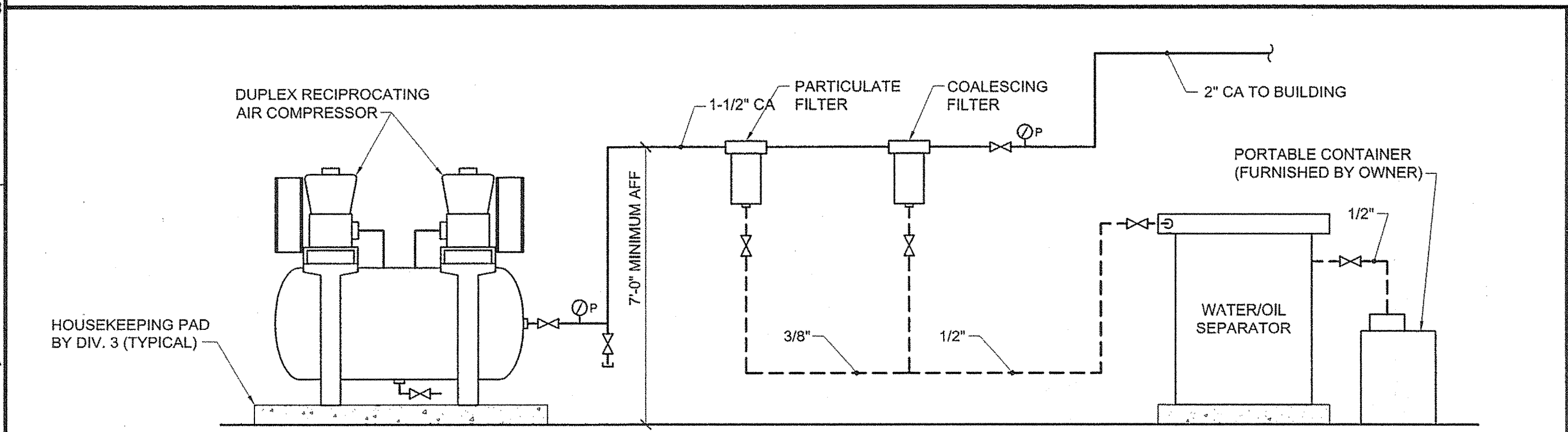
Filename: -

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DOMESTIC PIPING	
TAG	SIZE
A	1/2"
B	3/4"
C	1"
D	1-1/4"
E	1-1/2"
F	2"
G	2-1/2"

REFER TO PLUMBING
FIXTURE SCHEDULE
FOR FIXTURE
BRANCH SIZES



A1 COMPRESSED AIR SYSTEM PIPING DETAIL
NO SCALE

A5 DOMESTIC PART PLAN ~ SECOND FLOOR
1/8" = 1'-0"

C9

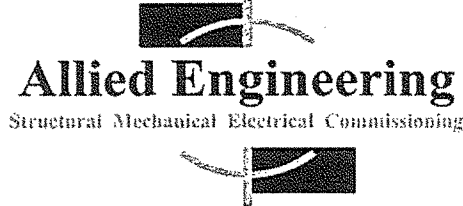
KEY NOTES

1 PROVIDE HEAT TRACE AT THE VERTICAL DROP, FROM THE HOSE BIBB UP TO THE HORIZONTAL RUN.

A9

KEY PLAN

NO SCALE

**Allied Engineering**
Structural Mechanical Electrical Commissioning

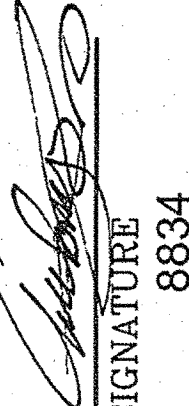
160 Veranda Street
Portland, Maine 04103
T: 207.221.2260
F: 207.221.2266
Web: www.allied-eng.com

Allied Project No: 07010

Cad File: 07010P.DWG

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

ANTHONY S. DAVIS
No. 8834
Professional Engineer


SIGNATURE
8834
P.E. NUMBER
01 MAY 2009
DATE

DATE

FED PIN NO:

PIN NO: 16123.50

PROJECT INFORMATION

PROGRAM

PROJECT MANAGER

DESIGNER

CONSULTANT

PROJECT RESIDENT

CONTRACTOR

-

WPF

-

ALLIED ENGINEERING

-

-

PROJECT COMPLETION DATE

-

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

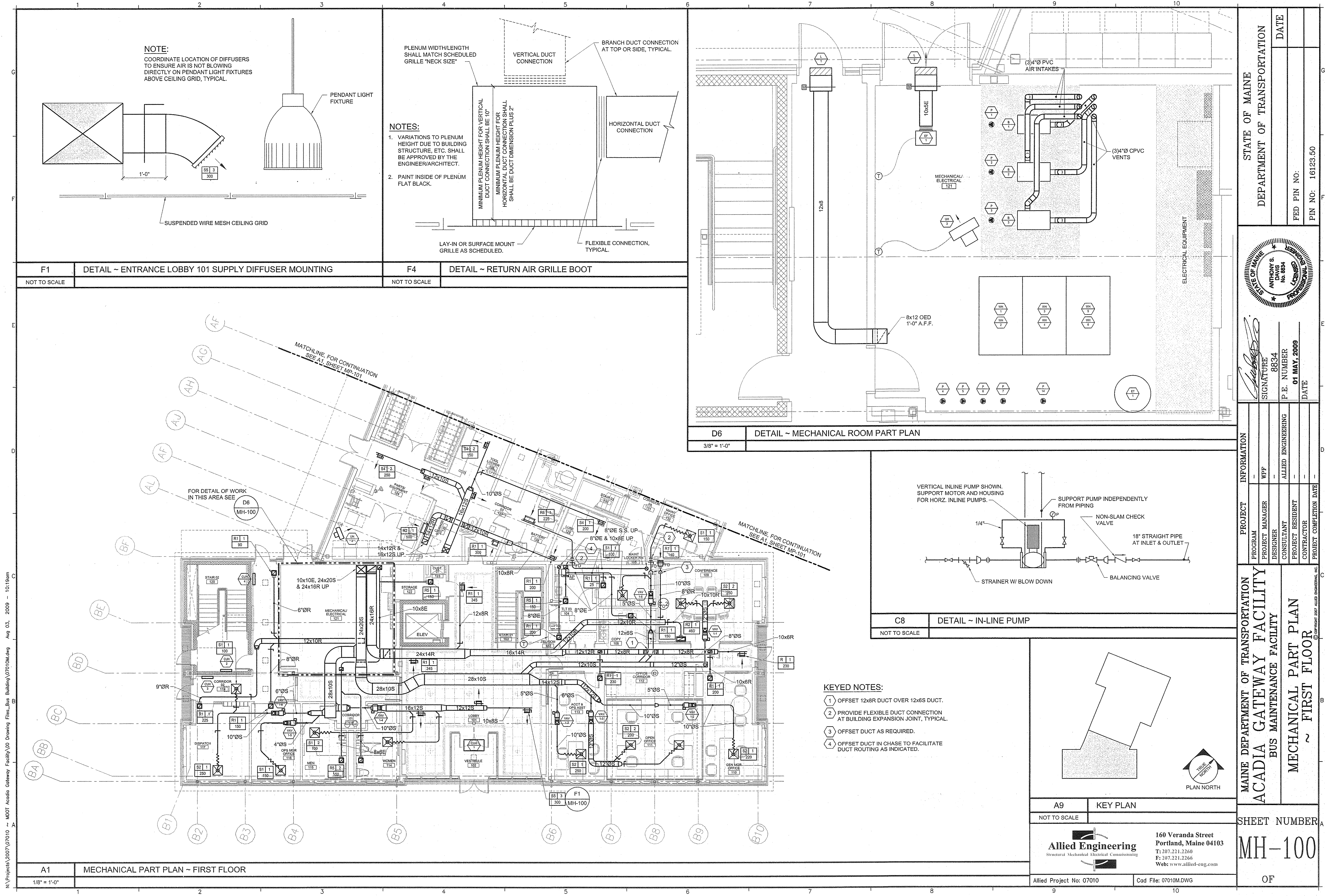
DOMESTIC PART PLAN
SECOND FLOOR

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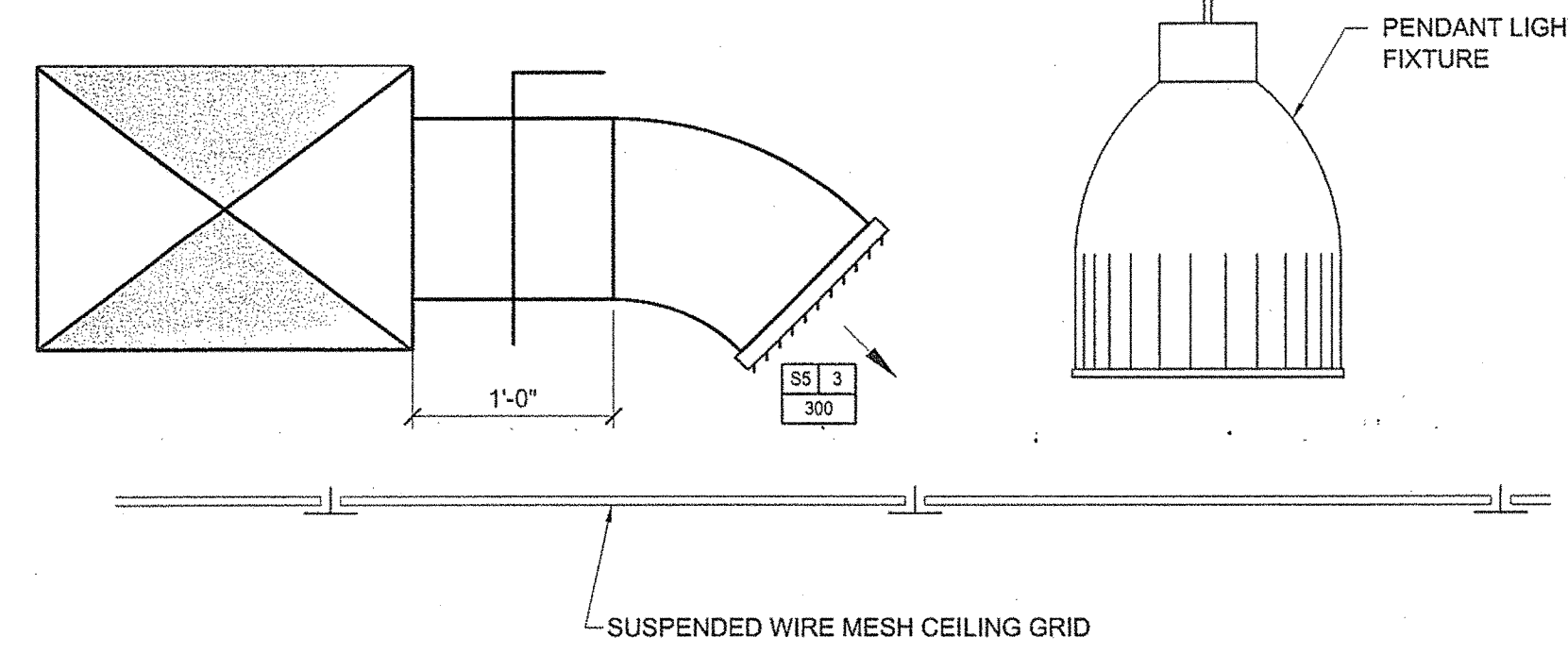
SHEET NUMBER

PL-103

OF



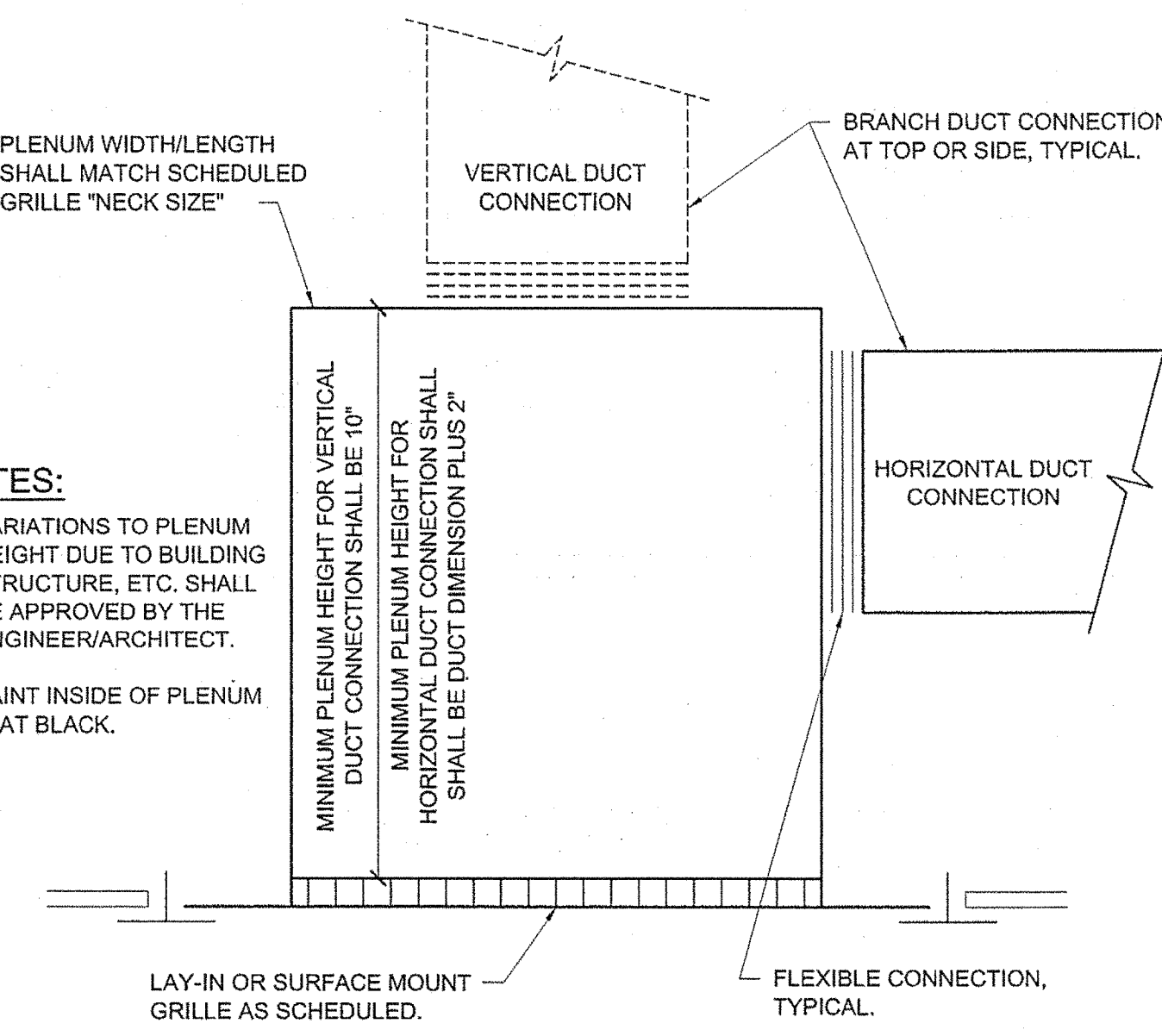
NOTE:
COORDINATE LOCATION OF DIFFUSERS
TO ENSURE AIR IS NOT BLOWING
DIRECTLY ON PENDANT LIGHT FIXTURES
ABOVE CEILING GRID, TYPICAL.



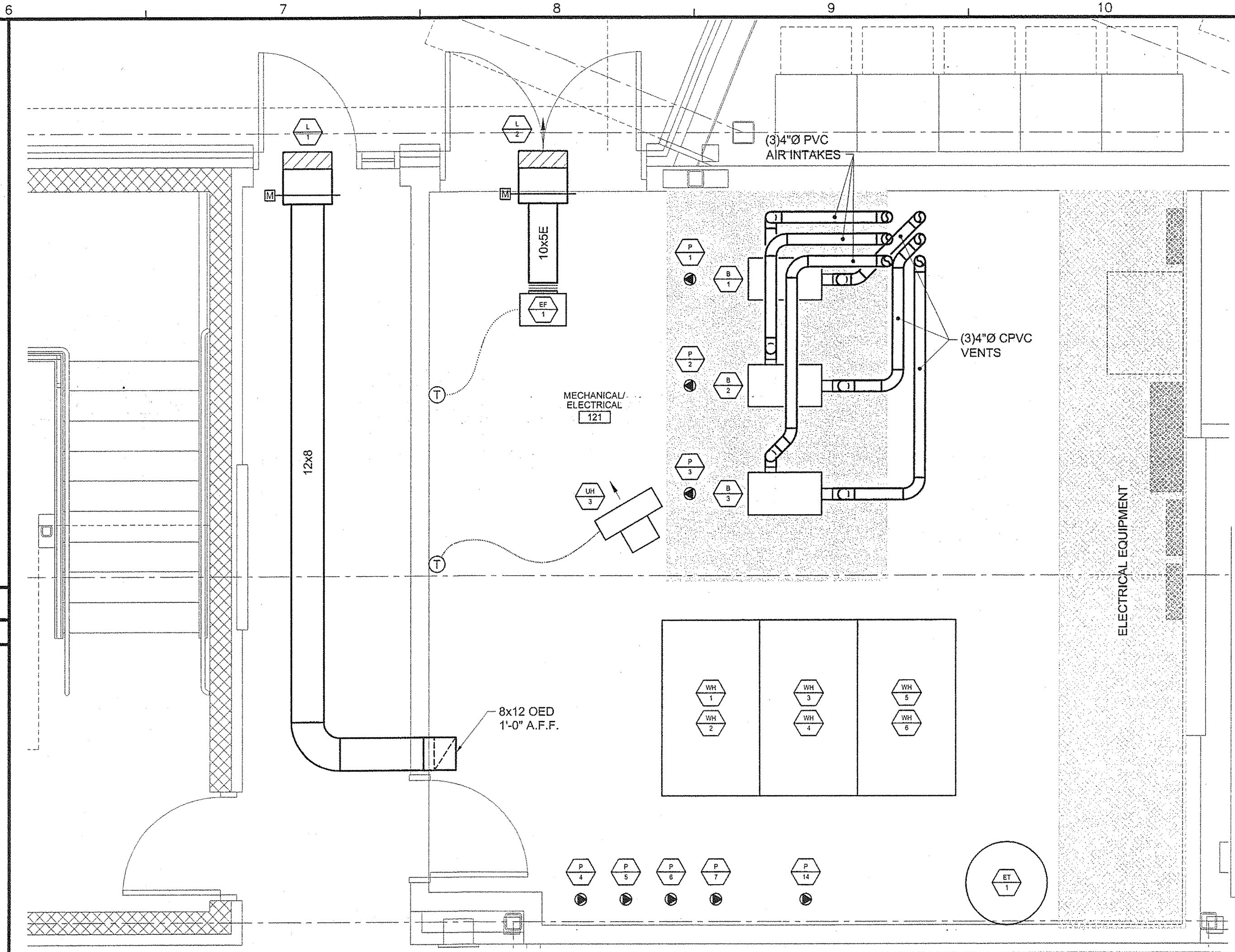
F1 DETAIL ~ ENTRANCE LOBBY 101 SUPPLY DIFFUSER MOUNTING
NOT TO SCALE

NOTES:

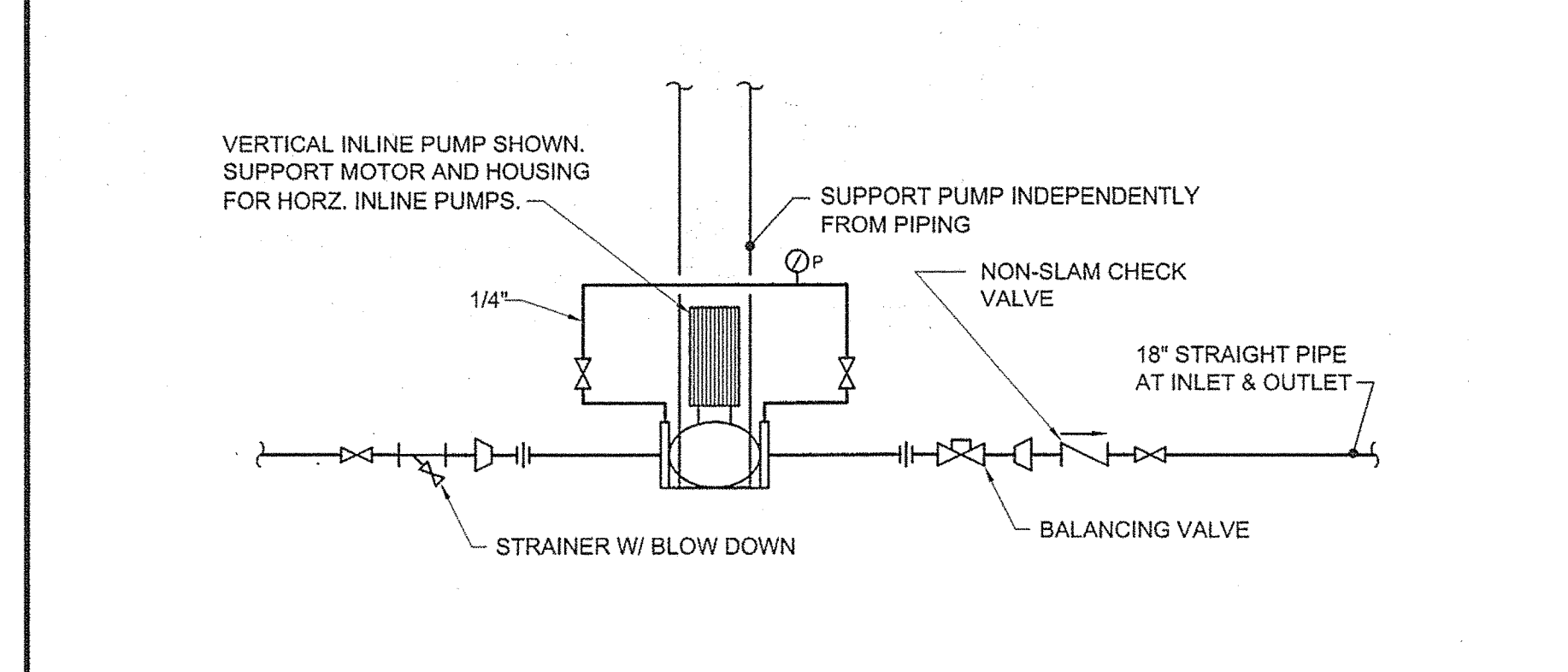
- 1. VARIATIONS TO PLENUM HEIGHT DUE TO BUILDING STRUCTURE, ETC. SHALL BE APPROVED BY THE ENGINEER/ARCHITECT.
- 2. PAINT INSIDE OF PLENUM FLAT BLACK.



F4 DETAIL ~ RETURN AIR GRILLE BOOT
NOT TO SCALE



D6 DETAIL ~ MECHANICAL ROOM PART PLAN
3/8" = 1'-0"

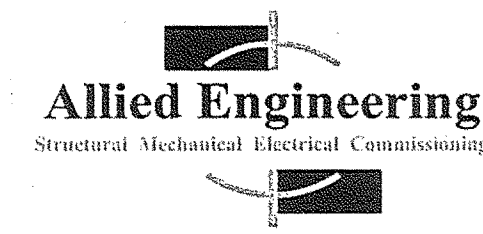


C8 DETAIL ~ IN-LINE PUMP
NOT TO SCALE

KEYED NOTES:

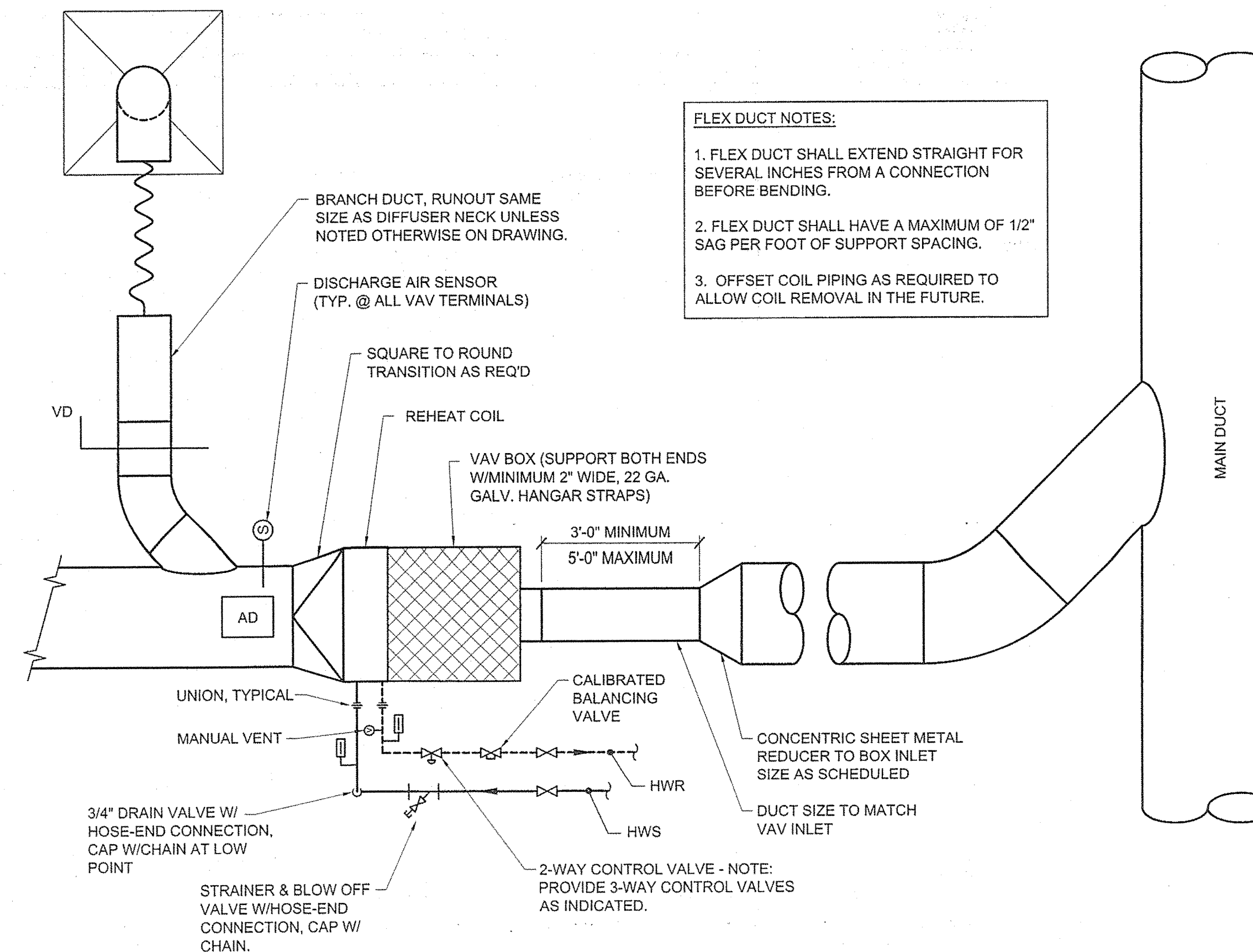
- 1. OFFSET 12x8R DUCT OVER 12x6S DUCT.
- 2. PROVIDE FLEXIBLE DUCT CONNECTION AT BUILDING EXPANSION JOINT, TYPICAL.
- 3. OFFSET DUCT AS REQUIRED.
- 4. OFFSET DUCT IN CHASE TO FACILITATE DUCT ROUTING AS INDICATED.

A9 KEY PLAN
NOT TO SCALE



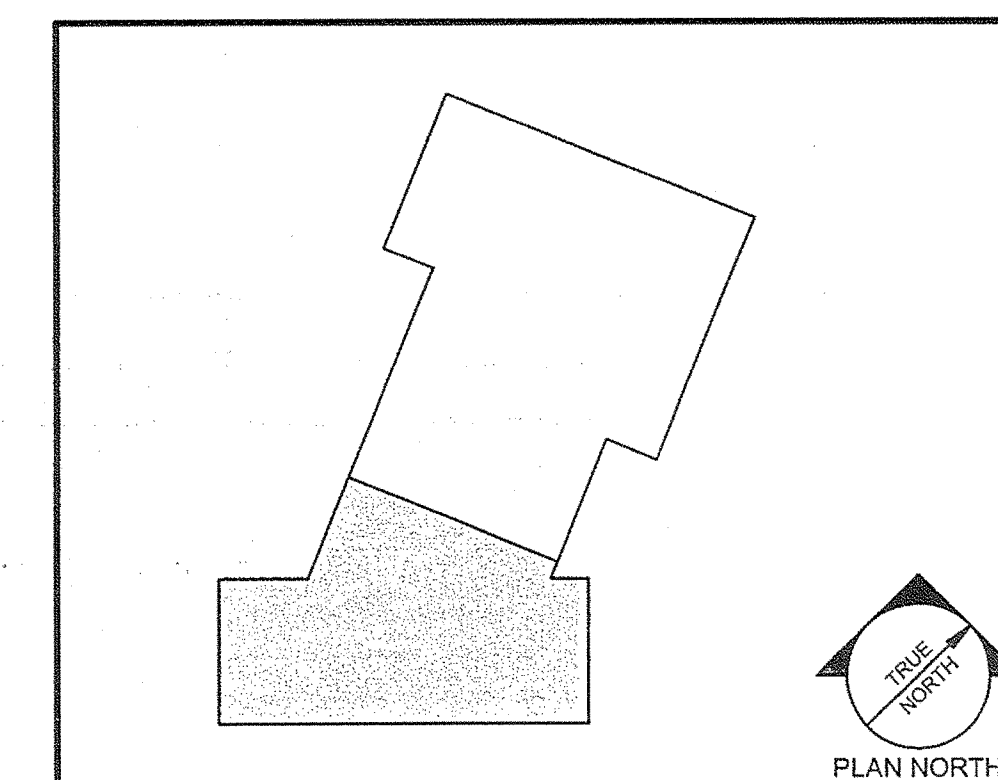
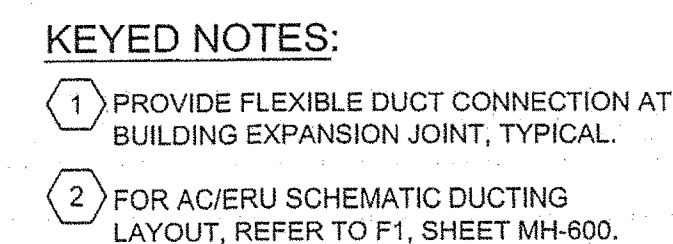
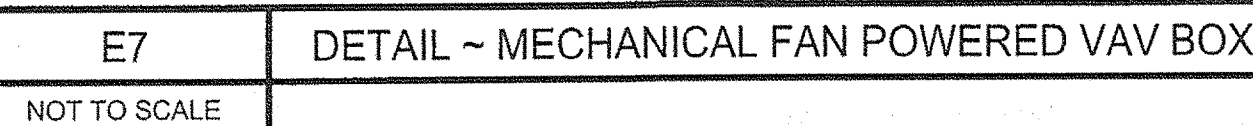
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
FED PIN NO:		PIN NO: 16123.50	
SIGNATURE ANTHONY S. DAVIS No. 8834		DATE 01 MAY, 2009	
PROJECT INFORMATION		PROJECT INFORMATION	
PROGRAM	WFF	PROJECT	WFF
PROJECT MANAGER	WFF	DESIGNER	WFF
DESIGNER	WFF	CONSULTANT	ALLIED ENGINEERING
CONSULTANT	ALLIED ENGINEERING	PROJECT RESIDENT	WFF
PROJECT RESIDENT	WFF	CONTRACTOR	WFF
CONTRACTOR	WFF	PROJECT COMPLETION DATE	WFF
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		MECHANICAL PART PLAN ~ FIRST FLOOR	
SHEET NUMBER A		MH-100	
OF		OF	




FLEX DUCT NOTES:

1. FLEX DUCT SHALL EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2. FLEX DUCT SHALL HAVE A MAXIMUM OF 1/2" SAG PER FOOT OF SUPPORT SPACING.
3. OFFSET COIL PIPING AS REQUIRED TO ALLOW COIL REMOVAL IN THE FUTURE.



NOT TO SCALE



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Structural Mechanical Electrical Commissioning

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Allied Project No: 07010

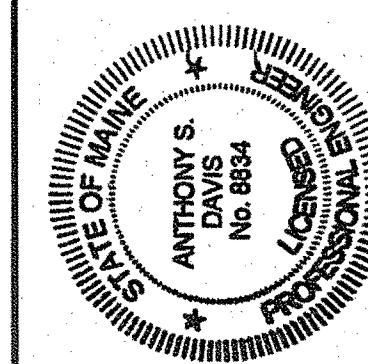
Cad File: 07010M.DWG

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE _____

FED PIN NO:

PIN NO: 16123.50



RECEIVED

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SIGNAL ONE
8834

P.F. NUMBER
01 MAY, 2009

DATE _____

PROJECT INFORMATION

PROGRAM

PROJECT MANAGER
DESIGNER

CONSULTANT

	PROJECT RESIDENT
	CONTRACTOR

PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

BUS MAINTENANCE FACILITY

MECHANICAL PART PLAN

~ UPPER LEVEL

SHEET NUMBER

MH-101

OF

Username: -

Division: -

Date: -

Filename: -

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CONVECTOR SCHEDULE									
TAG	TRANE MODEL	STYLE	LENGTH	HEIGHT	DEPTH	MBH	GPM	MAX WPD	PIPE RUNOUT SIZE
CONV-1	SW	WALL-HUNG	38"	26"	6"	5	0.5	0.2	1/2"
CONV-2	SW	WALL-HUNG	50"	32"	8"	10	1	1	1/2"
NOTES: BASE SIZING ON: 170 AWT, 20F TEMP DROP.									

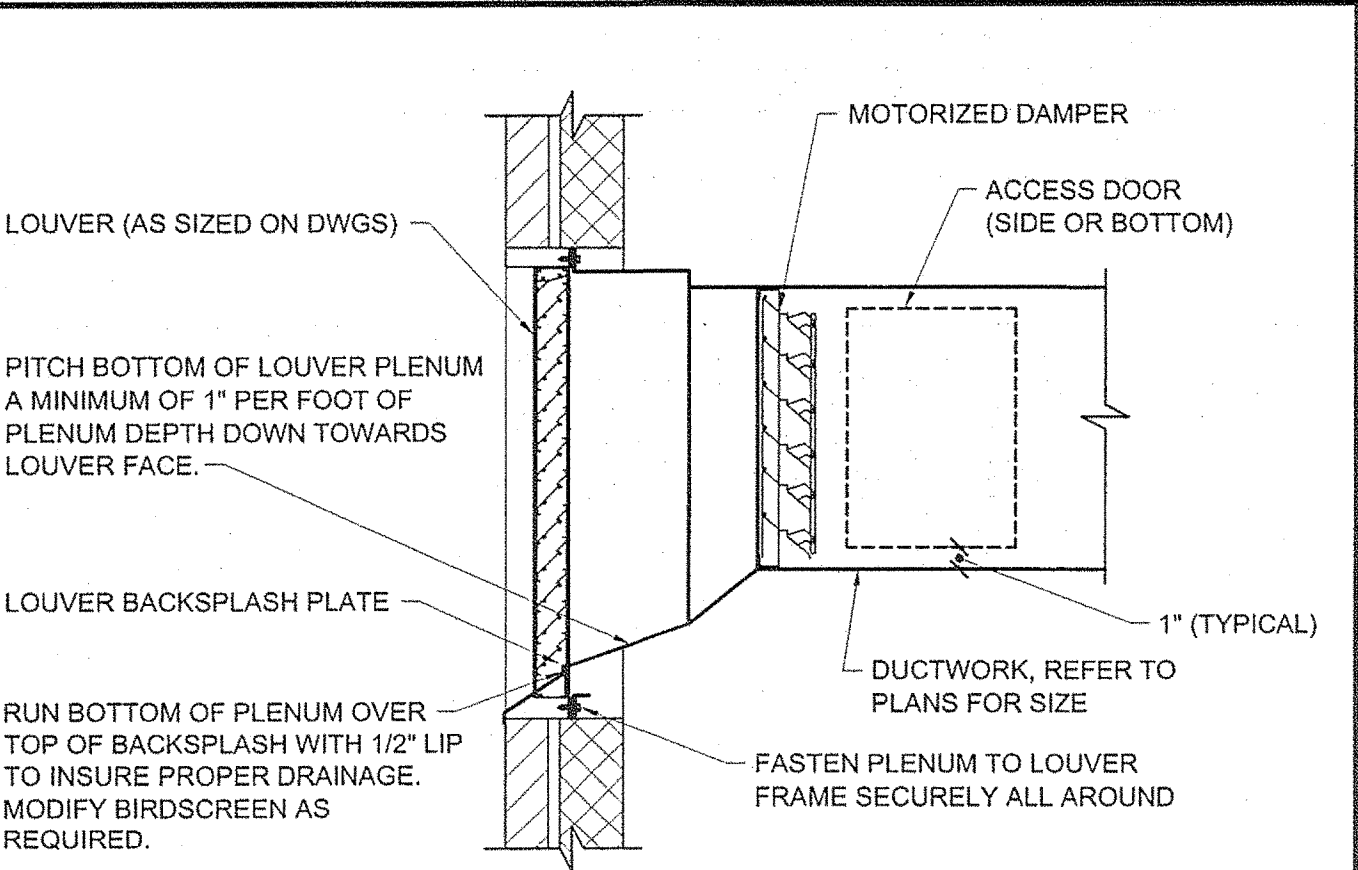
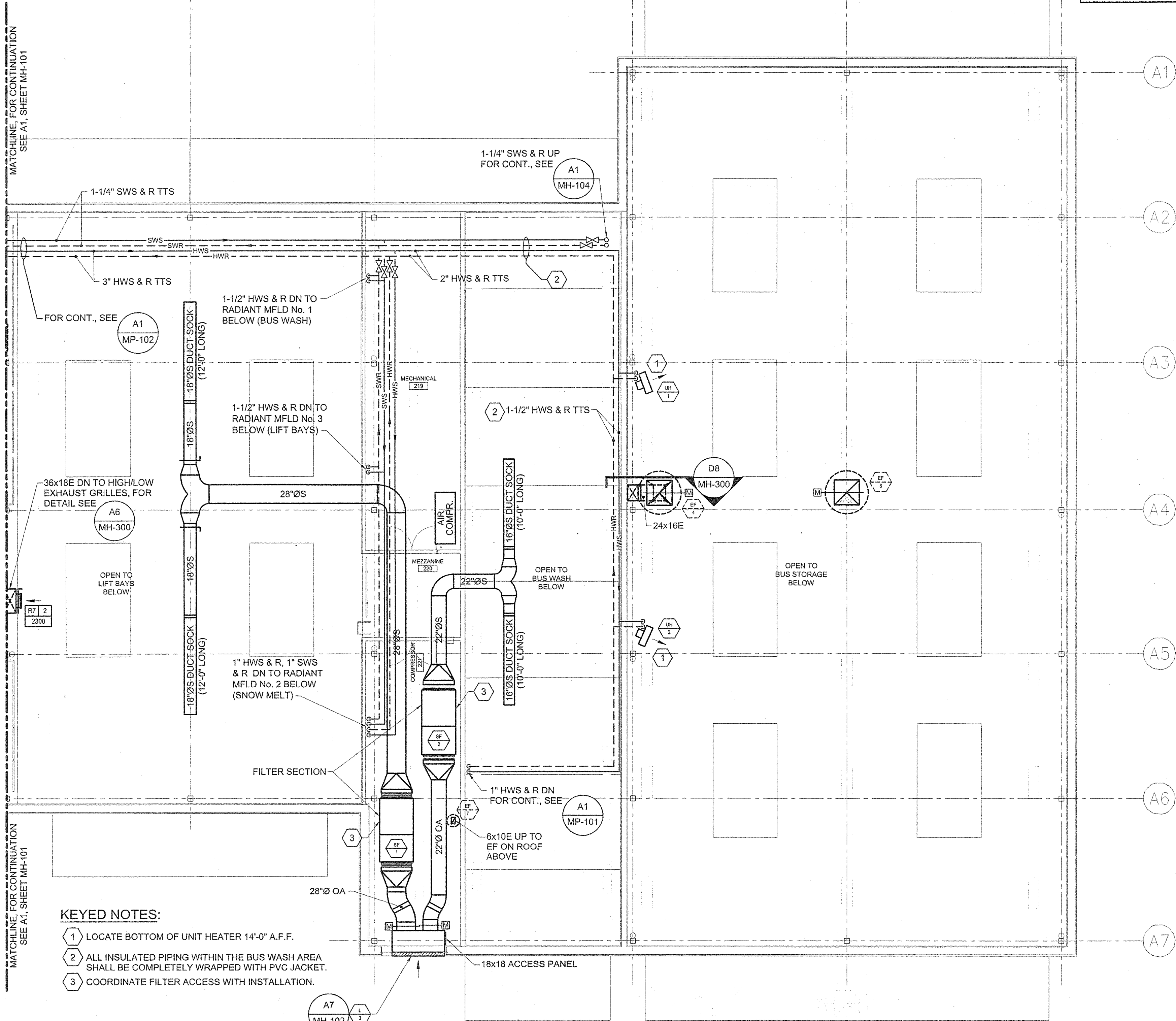
HEAT EXCHANGER SCHEDULE - PLATE & FRAME														
TAG	MFR-MODEL	SERVED BY	LOCATION	SERVICE	SOURCE FLUID					HEATED FLUID				
					GPM	MBH	E.W.T. DEG F	L.W.T. DEG F	P.D. (PSI)	GPM	MBH	E.W.T. DEG F	L.W.T. DEG F	P.D. (PSI)
HX-1	TACO - TFP5X12-10(3/4"TMP1)	BOILER(S)	LIFT BAYS	SNOW MELT	3	60	170	130	1.4	0.72 ft/sec	0	3.5	60	98
HX-2	TACO - TFP5X12-12(3/4"TMP1)	SOLAR HEATING WATER	LIFT BAYS	SNOW MELT	3.3	60	170	130	1.2	0.63 ft/sec	50	3.5	60	98
NOTE: Glycol is Propylene														

UNIT HEATER SCHEDULE																			
TAG	MFR-MODEL	SIZE	TYPE	EXPOSED FACE WIDTH	EXPOSED FACE HEIGHT	MBH	CFM	EAT (DEG.-F)	LAT (DEG.-F)	GPM	FLUID	EWT	LWT	MOTOR HP	ELECT	DISC SWITCH BY	MAX WPD	PIPE RUNOUT SIZE	NOTES
CUH-1	TRANE FFD	3	HORIZ CLG. CABINET	2'-9"	2'-3"	23.0	277	70	—	1.6	WATER	160	120	85w	120-1-60	DIV 23	0.32	3/4"	
CUH-2	TRANE FFJ	3	VERTICAL SLOPE TOP FLOOR	2'-9"	2'-4"	22.1	260	70	—	1.5	WATER	160	120	70w	120-1-60	DIV 23	2.9	3/4"	
CUH-3	TRANE FFJ	3	VERTICAL SLOPE TOP FLOOR	2'-9"	2'-4"	22.1	260	70	—	1.5	WATER	160	120	70w	120-1-60	DIV 23	2.9	3/4"	
CUH-4	TRANE FFJ	3	VERTICAL SLOPE TOP FLOOR	2'-9"	2'-4"	22.1	260	70	—	1.5	WATER	160	120	70w	120-1-60	DIV 23	2.9	3/4"	
UH-1	TRANE S	S-144	HORIZONTAL UH	24"	28"	65.0	2,200	50	—	10.0	WATER	160	120	1/3	120-1-60	DIV 26	0.44	1 1/2"	
UH-2	TRANE S	S-144	HORIZONTAL UH	24"	28"	65.0	2,200	50	—	10.0	WATER	160	120	1/3	120-1-60	DIV 26	0.44	1 1/2"	
UH-3	TRANE S	S-60	HORIZONTAL UH	24"	28"	38.0	900	50	—	4.5	WATER	160	120	1/20	120-1-60	DIV 26	0.2	1"	
UH-4	TRANE S	S-60	HORIZONTAL UH	24"	28"	38.0	900	50	—	4.5	WATER	160	120	1/20	120-1-60	DIV 26	0.2	1"	
UH-5	TRANE S	S-A25	HORIZONTAL UH	24"	28"	24.8	580	50	—	2.5	WATER	160	120	1/20	120-1-60	DIV 26	2.2	3/4"	
UH-6	TRANE S	S-60	HORIZONTAL UH	24"	28"	38.0	900	50	—	4.5	WATER	160	120	1/20	120-1-60	DIV 26	0.2	1"	
NOTES: 1. POWER WIRING TO UNIT HEATER BY DIV 26. LOW VOLTAGE CONTROL WIRING, THERMOSTAT, RELAYS, AND TRANSFORMER BY DIV. 23.																			

DUCT HEATING COIL SCHEDULE														
TAG	SERVES	AIRFLOW	LENGTH	HEIGHT	FACE VEL	EDB	LDB	MBH	MAX APD	GPM	EWT	LWT	MAX WPD	RUNOUT SIZE
HC-1	ERU-2	1,000	20	16	450	50	110	109	0.1"	6.5	170	130	3'	1"

CONDENSING UNIT SCHEDULE				
TAG	CU-1	CU-2	CU-3	CU-4
LOCATION	ON ROOF	ON ROOF	ON ROOF	ON ROOF
SERVICE	AHU-1	AHU-1	AHU-2	AHU-2
MFR-MODEL	TRANE	TRANE	TRANE	TRANE
MODEL	4TTA3060A4	4TTA3060A4	4TTA3030A4	4TTA3030A4
TONS	5	5	2.5	2.5
V-PH-HZ	460-3-60	460-3-60	460-3-60	460-3-60
REFRIGERANT	410A	410A	410A	410A
AMBIENT DB, deg.F.	95	95	95	95
MIN OA TEMP	40	40	40	40
COMP QTY	1	1	1	1
FAN QTY	1	1	1	1
UNIT MCA	12	12	5	5
UNIT MAX FUSE SIZE	20	20	15	15
COMPRESSOR R.L.A.	18	18	3.7	3.7
COMPRESSOR L.R.A.	137	137	28	28
MIN. COOLING STAGES	1	1	1	1
EER AT ARI CONDITIONS	11.5	11.5	11.5	11.5
OPERATING WEIGHT, lbs.	260	260	200	200
LENGTH	39"	39"	33"	33"
WIDTH	35"	35"	30"	30"
HEIGHT	47"	47"	38"	38"

BOILER SCHEDULE			
TAG	B-1	B-2	B-3
TYPE	CONDENSING	CONDENSING	CONDENSING
MANUFACTURER	LOCHINVAR	LOCHINVAR	LOCHINVAR
MODEL	KBN399 (M9)	KBN399 (M9)	KBN399 (M9)
INPUT (MBH)	399	399	399
NET I=B+R RATING (MBH)	372	372	372
HEATING SURFACE (SF)	23.5	23.5	23.5
WATER CONTENT (GALS)	3.4	3.4	3.4
MIN WATER FLOW (GPM) @35 F	21	21	21
MAX WATER FLOW (GPM) @20 F	37	37	37
WATER CONNECTIONS	1 1/2"	1 1/2"	1 1/2"
DEPTH	27"	27"	27"
WIDTH	15"	15"	15"
HEIGHT	43"	43"	43"
AIR INLET DIA (IN.)	4"	4"	4"
VENT CONN. DIA (IN.)	4"	4"	4"
VENT TYPE	CAT IV	CAT IV	CAT IV
BURNER	LP GAS	LP GAS	LP GAS
GAS CONN. SIZE	1"	1"	1"
MIN GAS INLET PRESSURE	8" wg	8" wg	8" wg
MAX GAS INLET PRESSURE	13" wg	13" wg	13" wg
ELECTRICAL	120v, 15amp, 1ph	120v, 15amp, 1ph	120v, 15amp, 1ph



NOTES:

- DETAIL IS BASED UPON RUSKIN MODEL No. ELF375D. FOR ALTERNATE MANUFACTURERS, COORDINATE AS REQUIRED FOR WEATHERTIGHT INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE LOUVER FRAME CONSTRUCTION WITH SIDING MANUFACTURER TO INSURE PROPER FLASHING CAPABILITIES FOR A WEATHERTIGHT INSTALLATION.
- SEAL BOTTOM OF PLENUM WATER TIGHT.

A9	KEY PLAN
NOT TO SCALE	

**Allied Engineering**
Structural Mechanical Electrical Commissioning

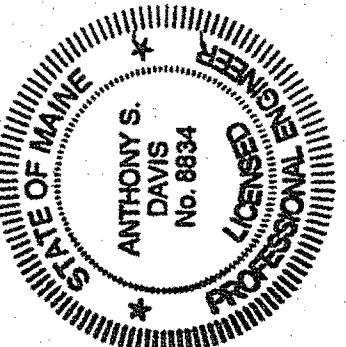
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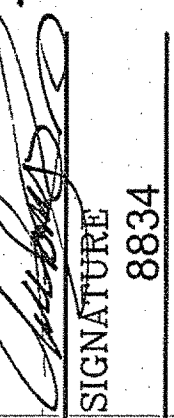
Allied Project No: 07010

Cad File: 07010M.DWG

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE
FED PIN NO:
PIN NO: 16123.50





SIGNATURE
8834
P.E. NUMBER
01 MAY, 2009
DATE

PROJECT INFORMATION

PROGRAM
PROJECT MANAGER
DESIGNER
CONSULTANT
PROJECT RESIDENT
CONTRACTOR

WPF
ALLIED ENGINEERING
-
-
-
-

PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

MECHANICAL PART PLAN
~ UPPER LEVEL

SHEET NUMBER

MH-102

OF

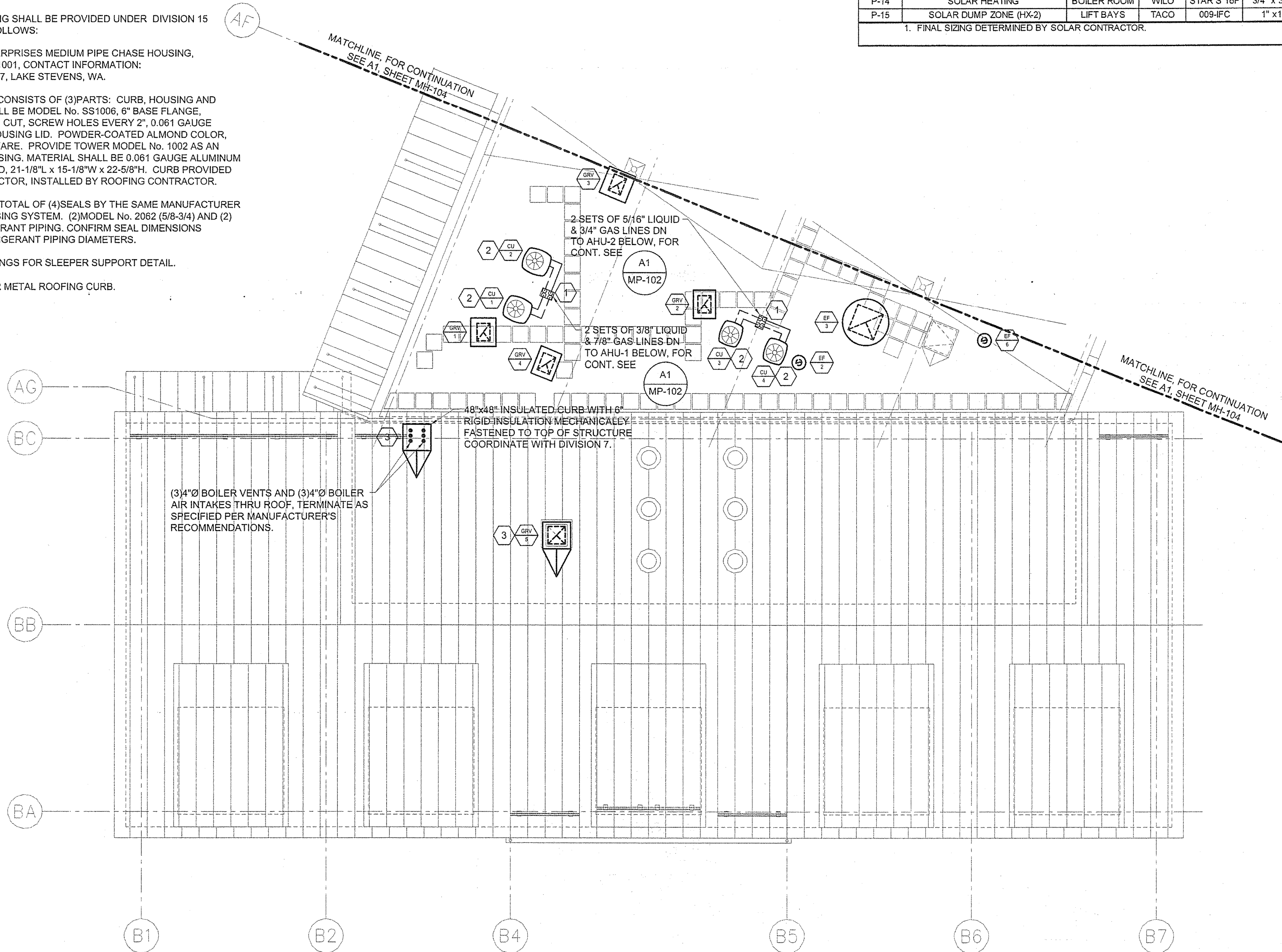
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Filename:--
Date:--
Division:--
User:--

REGISTERS - GRILLES - DIFFUSERS (RGD) SCHEDULE										
TAG	PRICE MODEL	TYPE	NECK SIZE	FACE SIZE	CFM RANGE	MAX TOTAL P.D. (IN.W.C.)	MAX NC LEVEL	BORDER TYPE	BLOW	NOTES
S-1	SCD	SQ. CEILING SUPPLY DIFFUSER	6" DIA	24" X 24"	0-150	0.07"	16	LAY-IN	4-WAY	
S-2	SCD	SQ. CEILING SUPPLY DIFFUSER	8" DIA	24" X 24"	151-280	0.07"	19	LAY-IN	4-WAY	
S-3	SCD	SQ. CEILING SUPPLY DIFFUSER	10" DIA	24" X 24"	281-440	0.07"	22	LAY-IN	4-WAY	
S-4	520D	STEEL DOUBLE DEFL. SUPPLY REGISTER	10" X 8"	12" X 8"	100 - 250	0.07"	22	SURFACE MT.	ADJUSTABLE	
S-5	520D	STEEL DOUBLE DEFL. SUPPLY REGISTER	12" X 8"	14" X 10"	251 - 500	0.07"	22	SURFACE MT.	ADJUSTABLE	
S-6	520D	STEEL DOUBLE DEFL. SUPPLY REGISTER	16" X 8"	18" X 10"	501 - 650	0.07"	22	SURFACE MT.	ADJUSTABLE	
S-7	SDS 100	LINEAR SLOT, 1" SLOT WIDTH, 5 SLOTS, 4 FT LONG	48" X 10"	48" X 10"	400	0.02"	22	SURFACE MT.		INTEGRAL BAL. DAMPER
R-1	510Z	STEEL RETURN GRILLE, 3/4" SPACING, 0 DEG VANES	12" X 12"	12" X 12"	0-450	0.05"	17	NOTE 1		
R-2	510Z	STEEL RETURN GRILLE, 3/4" SPACING, 0 DEG VANES	22" X 10"	22" X 10"	451-850	0.05"	17	NOTE 1		
R-3	510Z	STEEL RETURN GRILLE, 3/4" SPACING, 0 DEG VANES	22" X 22"	22" X 22"	851-1900	0.05"	22	NOTE 1		
R-4	510Z	STEEL RETURN GRILLE, 3/4" SPACING, 0 DEG VANES	48" X 22"	48" X 22"	1901-4000	0.05"	24	NOTE 1		
R-5	630	ALUM. RETURN GRILLE, 3/4" SPACING, 35 DEG VANES	8" X 8"	8" X 8"	0-170	0.05"	23	NOTE 1		
R-6	630	ALUM. RETURN GRILLE, 3/4" SPACING, 35 DEG VANES	22" X 10"	22" X 10"	140-550	0.03"	27	NOTE 1		OBD WHERE SHOWN
R-7	610Z	ALUM RETURN GRILLE, 3/4" SPACING, 0 DEG VANES	36" X 20"	38" X 22"	1300 - 2500	0.02"	20	NOTE 1		

NOTES: 1. Surface Mount or Lay-In as required by ceiling type, duct mounted, or wall mounted.

KEYED NOTES:

1. INSULATED PIPE CHASE HOUSING SHALL BE PROVIDED UNDER DIVISION 15 AND SHALL BE SPECIFIED AS FOLLOWS:
1. EQUAL TO SIGRIS ENTERPRISES MEDIUM PIPE CHASE HOUSING, ALUMINUM MODEL No. AL1001, CONTACT INFORMATION: TELEPHONE - (425)865-0777, LAKE STEVENS, WA.
2. PIPE CHASE HOUSING CONSISTS OF (3) PARTS: CURB, HOUSING AND LID. CURB FLASHING SHALL BE MODEL No. SS1006, 6" BASE FLANGE, 11-1/2"x17-1/2" ROOF HOLE CUT, SCREW HOLES EVERY 2", 0.061 GAUGE ALUMINUM, GASKETED HOUSING LID. POWDER-COATED ALMOND COLOR, STAINLESS STEEL HARDWARE. PROVIDE TOWER MODEL No. 1002 AS AN ACCESSORY TO THE HOUSING. MATERIAL SHALL BE 0.061 GAUGE ALUMINUM POWDER-COATED ALMOND, 21-1/8" L x 15-1/8" W x 22-5/8" H. CURB PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ROOFING CONTRACTOR.
3. PIPE SEALS: PROVIDE TOTAL OF (4) SEALS BY THE SAME MANUFACTURER AS THE PIPE CHASE HOUSING SYSTEM. (2) MODEL No. 2062 (5/8-3/4) AND (2) SIZED FOR 2-1/8" REFRIGERANT PIPING. CONFIRM SEAL DIMENSIONS ARE CORRECT FOR REFRIGERANT PIPING DIAMETERS.
2. REFER TO STRUCTURAL DRAWINGS FOR SLEEPER SUPPORT DETAIL.
3. REFER TO SPECIFICATIONS FOR METAL ROOFING CURB.



AHU UNIT SCHEDULE																						
Unit													DX Cooling Coil									
TAG	Qty	Mfg.	Model	Electrical	Supply Fan							Filters		EAT		LAT		Face Area (ft²)	Max Face Velocity (ft/min)	Circuits	Total Capacity (MBtu/hr)	Sensible Capacity (MBtu/hr)
				Voltage	Airflow (CFM)	ESP (inH ₂ O)	TSP (inH ₂ O)	RPM	BHP (HP)	Motor Power (HP)	Variable Frequency Drive (VFD)	Face Area (ft²)	Efficiency	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)					
AHU-1	1	TRANE	LPCA08F	460/60/3	3200	2.5	3.28	1521	3.1	5	Note 1	11.1	MERV 13	75.0	69.5	51.7	51.5	2.0	525	2	114	82
AHU-2	1	TRANE	LPCA08F	460/60/3	2000	1.75	2.2	1257	1.4	2	Note 1	11.1	MERV 13	77.0	66.0	51.3	50.8	3.0	525	2	88	60
Note 1: VFDs shall be by Division 230901, AHU manufacturer shall provide inverter ready motors.																						

PUMP SCHEDULE																			
TAG	SYSTEM	LOCATION	MFR.	MODEL	SUCTION DISCH	TYPE	PUMPED FLUID	PERFORMANCE				ELECTRICAL				ELECTRICAL COORDINATION			NOTES
								GPM	HEAD	RPM	NPSH	BHP	NOL HP	MOTOR HP	VOLTS/PH (60 HZ)	VFD FURN. BY	STARTER FURN. BY	DISC. SWITCH FURN. BY	
P-1	BOILER B-1	BOILER ROOM	TACO	KV1506	1 1/2 x 1 1/2	INLINE	WATER	45	25	1760	4	0.5	0.65	1	208 / 3 / 60	---	DIV 26	DIV 26	
P-2	BOILER B-2	BOILER ROOM	TACO	KV1506	1 1/2 x 1 1/2	INLINE	WATER	45	25	1760	4	0.5	0.65	1	208 / 3 / 60	---	DIV 26	DIV 26	
P-3	BOILER B-3	BOILER ROOM	TACO	KV1506	1 1/2 x 1 1/2	INLINE	WATER	45	25	1760	4	0.5	0.65	1	208 / 3 / 60	---	DIV 26	DIV 26	
P-4	AHUs, UHs, VAVs, & RADIANT	BOILER ROOM	TACO	KV3009	3 x 3	INLINE	WATER	80	35	1160	2	1.4	1.8	2	208 / 3 / 60	DIV 23	---	DIV 26	AUTO LEAD-LAG
P-5	AHUs, UHs, VAVs, & RADIANT	BOILER ROOM	TACO	KV3009	3 x 3	INLINE	WATER	80	35	1160	2	1.4	1.8	2	208 / 3 / 60	DIV 23	---	DIV 26	AUTO LEAD-LAG
P-6	DHW-1, 2, 3	BOILER ROOM	TACO	1611	1 1/2 x 1 1/2	INLINE	WATER	36	20	1750	5	0.3	0.4	0.5	208 / 3 / 60	---	DIV 26	DIV 26	AUTO LEAD-LAG
P-7	DHW-1, 2, 3	BOILER ROOM	TACO	1611	1 1/2 x 1 1/2	INLINE	WATER	36	20	1750	5	0.3	0.4	0.5	208 / 3 / 60	---	DIV 26	DIV 26	AUTO LEAD-LAG
P-8	RADIANT FLOOR LIFT BAYS	LIFT BAYS	TACO	0011-JFC	1 1/2 x 1 1/2	INLINE	WATER	14	12	3250	---	---	---	0.125	115 / 1 / 60	---	DIV 26	DIV 26	AUTO LEAD-LAG
P-9	RADIANT FLOOR LIFT BAYS	LIFT BAYS	TACO	0011-JFC	1 1/2 x 1 1/2	INLINE	WATER	14	12	3250	---	---	---	0.125	115 / 1 / 60	---	DIV 26	DIV 26	AUTO LEAD-LAG
P-10	RADIANT FLOOR BUS WASH	WASH MECH RM	TACO	0011-JFC	1 1/2 x 1 1/2	INLINE	WATER	14	15	3250	---	---	---	0.125	115 / 1 / 60	---	DIV 26	DIV 26	AUTO LEAD-LAG
P-11	RADIANT FLOOR BUS WASH	WASH MECH RM	TACO	0011-JFC	1 1/2 x 1 1/2	INLINE	WATER	14	15	3250	---	---	---	0.125	115 / 1 / 60	---	DIV 26	DIV 26	AUTO LEAD-LAG
P-12	SNOW MELT (HX-1)	LIFT BAYS	TACO	008-JFC	3/4" x 3/4"	INLINE	WATER	3	10	3250	---	---	---	0.125	115 / 1 / 60	---	DIV 26	DIV 26	
P-13	SNOW MELT SLAB	LIFT BAYS	TACO	008-JFC	3/4" x 3/4"	INLINE	WATER	3	10	3250	---	---	---	0.125	115 / 1 / 60	---	DIV 26	DIV 26	
P-14	SOLAR HEATING	BOILER ROOM	WILCO	STAR S 16F	3/4" x 3/4"	INLINE	WATER	4.2	13	2700	---	---	---	0.1	115 / 1 / 60	---	DIV 26	DIV 26	NOTE 1
P-15	SOLAR DUMP ZONE (HX-2)	LIFT BAYS	TACO	009-JFC	1" x 1"	INLINE	WATER	5	12	3250	---	---	---	0.125	115 / 1 / 60	---	DIV 26	DIV 26	
1. FINAL SIZING DETERMINED BY SOLAR CONTRACTOR.																			

ENERGY RECOVERY UNIT SCHEDULE			
GENERAL	TAG	ERU-1	ERU-2
SERVES		AHU-1 & AHU-2	Tool Storage & General Storage
TYPE		FIXED-PLATE ENTHALPIC	FIXED-PLATE ENTHALPIC
MFR		RenewAir	RenewAir
MODEL		HE3XNH	HE2XNH
FILTER SECTION	FILTERS / MERV 8	2" 30%-EFF.	2" 30%-EFF.
TOTAL NO. / SIZE		6 / 20" X 20"	4 / 20" X 20"
OUTSIDE AIR FAN	TYPE	FC	FC
	AIRFLOW, cfm	2,500	1,000
	ESP, in.wc.	0.75	1.25
	MOTOR SPEEDS	VFD (INVERTER READY)	1
EXHAUST AIR FAN	HP / BHP	5 / 3	1.5 / 0.9
	TYPE	FC	FC
	AIRFLOW, cfm	2,500	1,200
	ESP, in.wc.	0.75	0.75
	MOTOR SPEEDS	1	1
	HP / BHP	5 / 3	1.5 / 0.9
OVERALL DIMENSIONS	LENGTH	65"	55"
	WIDTH	63"	33"
	HEIGHT	41"	36"
	OPERATING WEIGHT, lbs.	675	425
HEAT RECOVERY CORE	SUMMER OA DB/WB	88 / 71	88 / 71
	WINTER OA DB/WB	-4 / -5	-4 / -5
	SUMMER SA DB/WB	79 / 69	79 / 69
	WINTER SA DB/WB	47 / 39	52 / 39
	SENSIBLE EFFECTIVENESS	69.0%	76.0%
	SUMMER ENTHALPY EFF.	46.0%	54.0%
	WINTER ENTHALPY EFF.	64.0%	71.0%
ELECTRICAL DATA	FROST CONTROL	NONE REQUIRED	NONE REQUIRED
	V-PH-HZ	208-3-60	208-3-60
	UNIT FLA	2.1	7.0
	UNIT MCA	4.7	15.8
	MAX FUSE SIZE	15	20
	SUPPLY AND RETURN SMOKE DETECTORS	BY DIVISION 26	NO

KEY PLAN

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Allied Engineering
Structural Mechanical Electrical Commissioning

Allied Project No: 07010
Cod File: 07010.MDW

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE

FED PIN NO: 16123.50
PIN NO: 16123.50

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
MECHANICAL PART PLAN
~ ROOF

SHEET NUMBER
MH-103
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Filename: -

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LOUVER SCHEDULE														
TAG	MAKE - MODEL	ASSOCIATED AIR SYSTEM	INTAKE OR RELIEF?	CFM	DIMENSIONS						BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ/SF	MAX P.D. MAX W.C.	SCREEN	NOTES
					WIDTH (in.)	HEIGHT (in.)	MIN. FREE AREA (SF)	GROSS VELOCITY (FT/MIN)	NET VELOCITY (FT/MIN)	% FREE AREA				
L-1	RUSKIN ELF675DX	MECHANICAL ROOM	INTAKE	320	16	14	0.26	250	1,231	16.7%	6"	873 FPM	0.06	SEE SPEC
L-2	RUSKIN ELF675DX	MECHANICAL ROOM	EXHAUST	320	16	14	0.26	250	962	26.0%	6"	873 FPM	0.06	SEE SPEC
L-3	RUSKIN ELF675DX	GARAGE CO/NOX MUA	INTAKE	7,500	72	48	14.95	288	509	62.0%	6"	1000 FPM	0.05	SEE SPEC
L-4	RUSKIN ELF675DX	AHU-2 & ERU-2	INTAKE	3,000	48	36	6.52	250	460	54.3%	6"	1000 FPM	0.05	SEE SPEC
L-5	RUSKIN ELF675DX	AHU-1 & ERU-1	INTAKE	5,700	60	48	11.4	250	500	57.0%	6"	1000 FPM	0.05	SEE SPEC
NOTES:														
1. BASIS OF DESIGN: 75 LB DRYER AT 1,100 CFM														

FAN SCHEDULE														
TAG	SERVES	MANUFACTURER-MODEL	TYPE	DRIVE	CFM	SP (IN. WC.)	MAX BHP	MOTOR HP	MAX RPM	VOLTS/ PH	MAX SONES	WEIGHT (LBS.)	DAMPER	NOTES
EF-1	MECHANICAL ROOM	COOK - GC-720	CEILING	DIRECT	320	0.4	124w	1/25	975	120 / 1	2.8	36	MOD	
EF-2	T/C ROOM	COOK - 100R15DH	ROOF TOP	DIRECT	200	0.4	72w	1/8	1228	120 / 1	4.8	30	MOD	
EF-3	LIFT BAY	COOK - 270ACRUB	ROOF TOP	BELT	4,800	0.6	0.99	1 1/2	692	208/3	13.1	340	MOD	
EF-4	BUS WASH	COOK - 210ACRUB	ROOF TOP	BELT	2,700	0.6	0.56	3/4	863	208/3	10.3	275	MOD	
EF-5	BUS STORAGE	COOK - 150ACRUB	ROOF TOP	BELT	1,000	0.25	0.09	1/4	678	120 / 1	4.0	70	MOD	
EF-6	BATTERY CHARGING ROOM	COOK- 90R15DH	ROOF TOP	DIRECT	175	0.4	68w	1/8	1197	120 / 1	4.5	30	MOD	EXPLOSION PROOF
EF-7	GARGAGE ROOM	COOK- 90R15DH	ROOF TOP	DIRECT	200	0.25	60w	1/8	927	120 / 1	2.2	30	BDD	RUNS CONTINUOUSLY
SF-1	LIFT BAY	COOK - 270SQN-B	INLINE	BELT	4,800	0.6	1	1.5	578	208/3	11.0	400	MOD	
SF-2	BUS WASH	COOK - 210SQN-B	INLINE	BELT	2,700	0.5	0.52	3/4	846	208/3	12.0	250	MOD	

NOTES:

1. BELT DRIVE FANS SHALL BE SELECTED WITH MEDIUM DRIVE LOSS
2. DIRECT DRIVE FANS SHALL BE PROVIDED WITH FACTORY SPEED CONTROLLER
3. BDDs NOT INTEGRAL TO THE FAN SHALL BE INSTALLED AT/NEAR WALL CAP OR LOUVER.

VAV AIR TERMINAL SCHEDULE														
TAG	SERVES	TRANE MODEL NO.	INLET SIZE (INCHES)	CFM MIN	CFM MAX	MAX RAD. IN.	A. P. D. AT MAX COOLING	HW REHEAT COIL						
								MBH	GPM	MAX WPD	EWT	EAT	LAT	ROWS
VAV-1-1	Conference 109	VCWF06	6	250	500	30	0.4"	18.9	1.5	7.8	160	50	100	2
VAV-1-2	General Mang. 110	VCWF06	5	110	220	30	0.15"	12.3	1.0	3.9	160	50	100	2
VAV-1-3	Open Office 111	VCWF06	6	200	400	30	0.4"	18.9	1.5	7.8	160	50	100	2
VAV-1-4	Lobby 101	VCWF10	10	550	1,100	30	0.5"	41.0	2.0	11.0	160	50	100	2
VAV-1-5	OPS 116	VCWF04	4	75	150	30	0.1"	7.6	1.0	3.8	160	50	100	2
VAV-1-6	Maint. Office 132	VCWF05	5	125	250	30	0.15"	12.3	1.0	3.9	160	50	100	2
VAV-1-7	OPS Assistant 113	VCWF05	5	125	250	30	0.15"	12.3	1.0	3.9	160	50	100	2
VAV-1-8	Dispatch 105	VCWF06	6	175	350	30	0.4"	18.9	1.5	7.8	160	50	100	2
					3,220									
VAV-2-1	Men's Bunk 210	VCWF05	5	125	200	30	0.15"	12.3	1.0	3.9	160	50	100	2
VAV-2-2	Women's Bunk 209	VCWF05	5	125	200	30	0.15"	12.3	1.0	3.9	160	50	100	2
VAV-2-3	Break Room 207	VCWF10	10	600	1,000	30	0.5"	41.0	2.0	11.0	160	50	100	2
VAV-2-4	Men's Locker 206	VCWF06	6	270	300	30	0.15"	12.3	1.0	3.9	160	50	100	2
VAV-2-5	Women's Locker 203	VCWF06	6	270	300	30	0.15"	12.3	1.0	3.9	160	50	100	2
					2,000									

NOTES:

1. VAV BOX MANUFACTURER: BOX, AIRFLOW PICKUP, AND HW COIL.
2. CONTROL CONTRACTOR: DAMPER ACTUATOR, VALVE ACTUATOR, TRANSFORMERS, AND LOW VOLTAGE WIRING.
3. ELECTRICAL CONTRACTOR: LINE VOLTAGE SIDE OF TRANSFORMERS VIA JUNCTION BOX.

GRAVITY VENTILATOR SCHEDULE												
TAG	MAKE/MODEL	DUTY	SERVICE	CFM	THROAT LENGTH (INCHES)	THROAT WIDTH (INCHES)	THROAT AREA (SF)	THROAT VELOCITY	AIR PRESSUR E DROP	HOOD SIZE OVERALL, LxW	HEIGHT (LESS CURB)	WEIGHT (LESS CURB)
GRV-1	COOK VR	RELIEF	AHU-1	1,900	24	18	3	633	0.07	39 x 35	13	100
GRV-2	COOK VR	RELIEF	AHU-2	1,000	24	18	3	333	0.02	39 x 31	12	95
GRV-3	COOK VR	RELIEF	ERU-1	2,500	24	18	3	833	0.07	39 x 39	14	110
GRV-4	COOK VR	RELIEF	ERU-2	1,000	24	18	3	333	0.02	39 x 31	12	95
GRV-5	COOK VR	RELIEF	ELEVATOR SHAFT	—	24	24	4	—	0.02	39 x 37	13	100

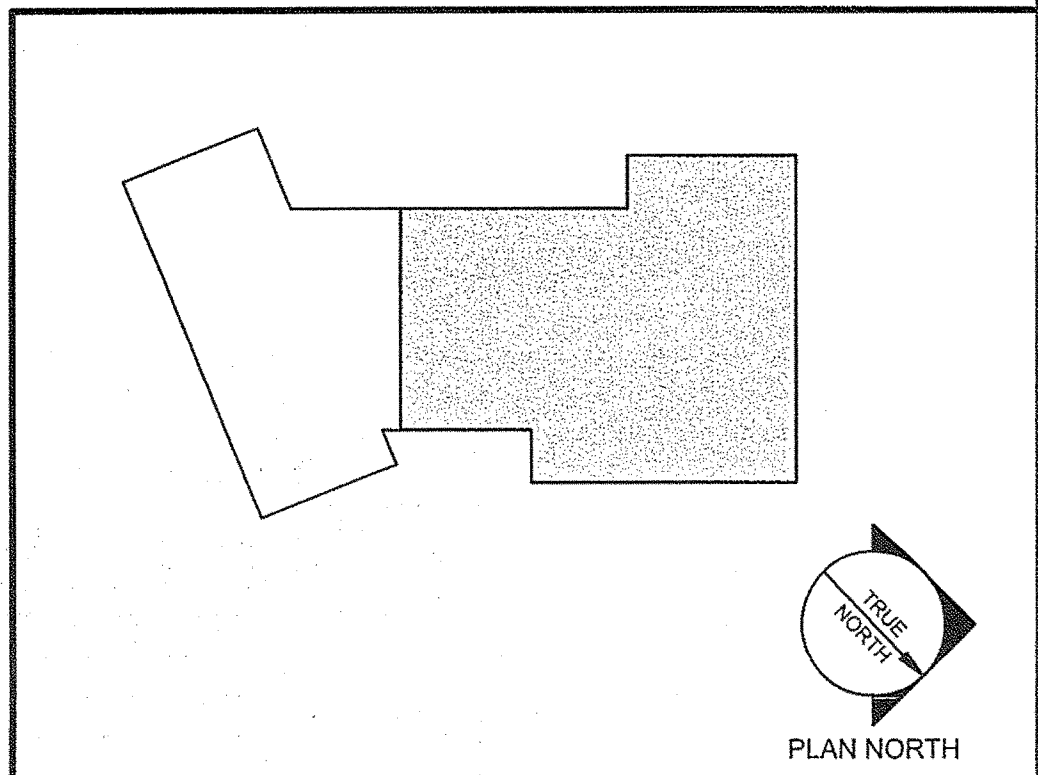
KEYED NOTES:

INSULATE AND SEAL WATER TIGHT. WRAP ALL EXPOSED INSULATED PIPING WITH PVC JACKETING.

1-1/4" SWS & R DN FOR CONT., SEE A1

INSULATED PIPE CHASE HOUSING, REFER TO KEYED NOTE No. 1, SHEET MH-103.

FOR SOLAR PANEL PIPING SCHEMATIC, SEE A1



A9 KEY PLAN

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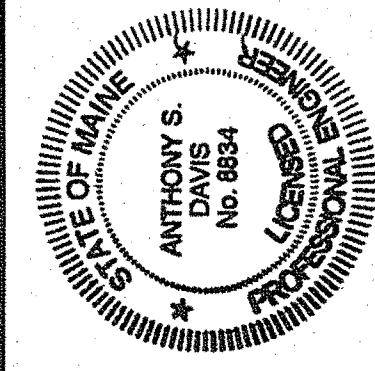
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Cad File: 07010M.DWG

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SIGNATURE
8834

P. E. NUMBER
01 MAY 2009

DATE

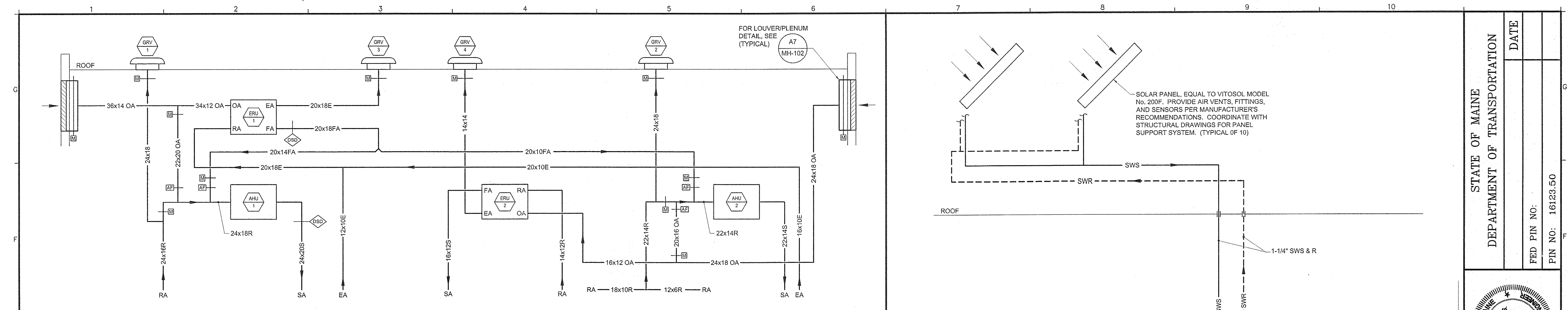
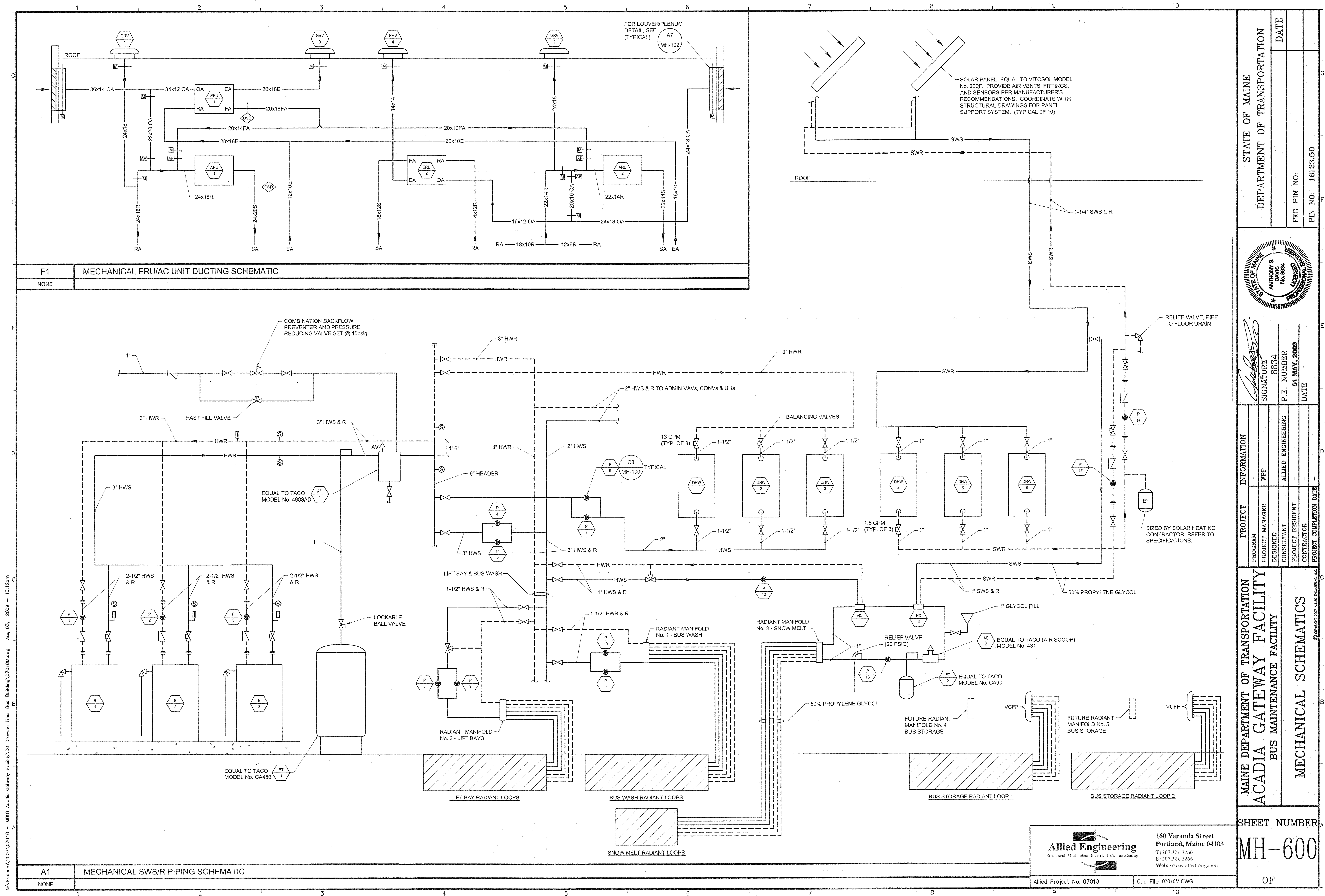
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ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

MECHANICAL PART PLAN
~ ROOF

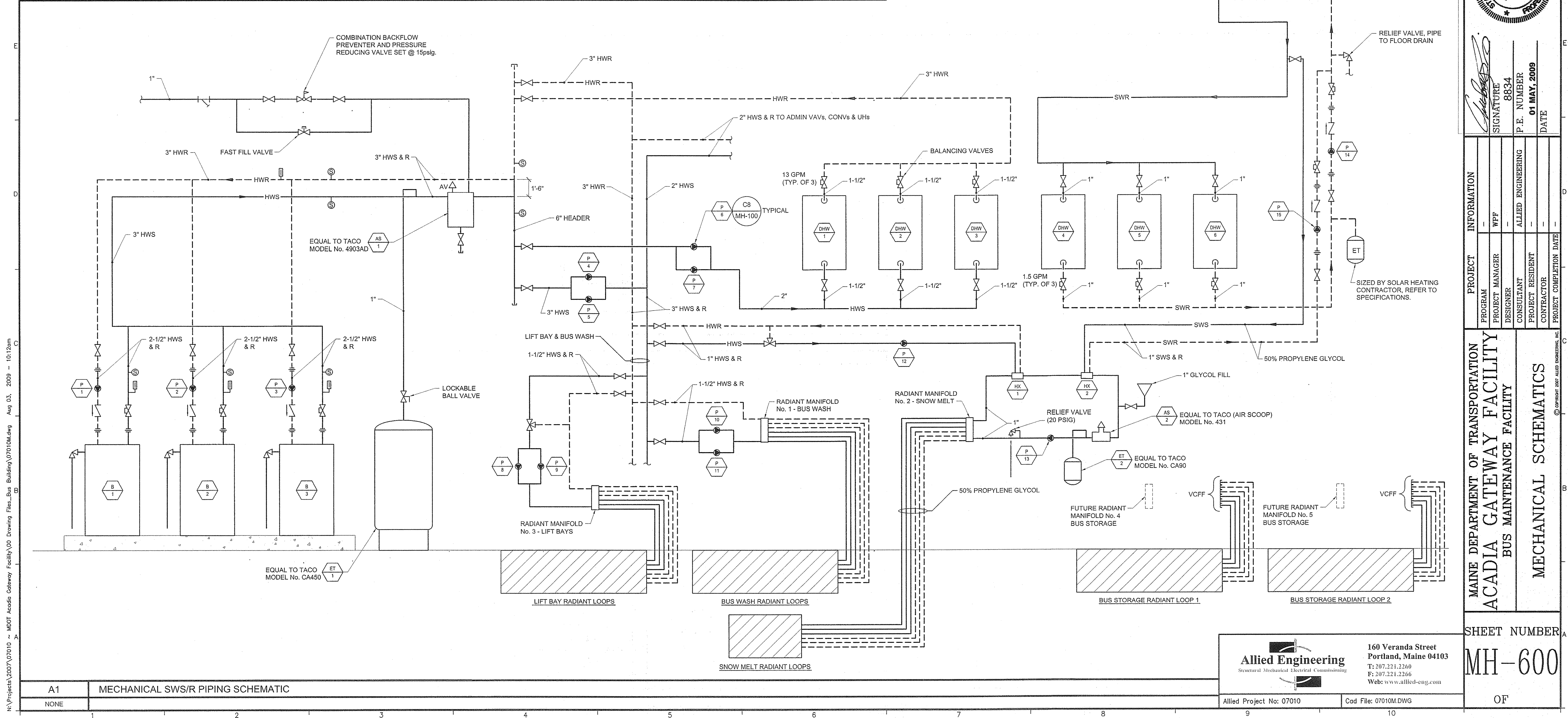
SHEET NUMBER

MH-104

OF



F1 MECHANICAL ERU/AC UNIT DUCTING SCHEMATIC

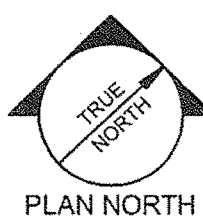
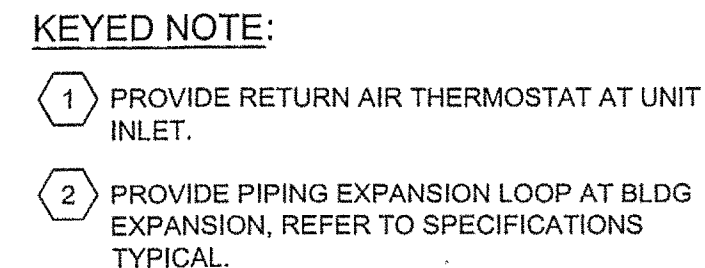


A1 MECHANICAL SWS/R PIPING SCHEMATIC

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
FED PIN NO:		PIN NO: 16123.50	
SIGNATURE ANTHONY S. DAVIS No. 8834 P.E. NUMBER 01 MAY, 2009 DATE		PROJECT INFORMATION	
PROJECT		PROGRAM	
PROJECT MANAGER		WPF	
DESIGNER		ALLIED ENGINEERING	
CONSULTANT		PROJECT RESIDENT	
CONTRACTOR		PROJECT COMPLETION DATE	
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY MECHANICAL SCHEMATICS			
SHEET NUMBER MH-600			
OF			

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Allied Project No: 07010	Cad File: 07010M.DWG
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SHEET NUMBER
MP-100
OF

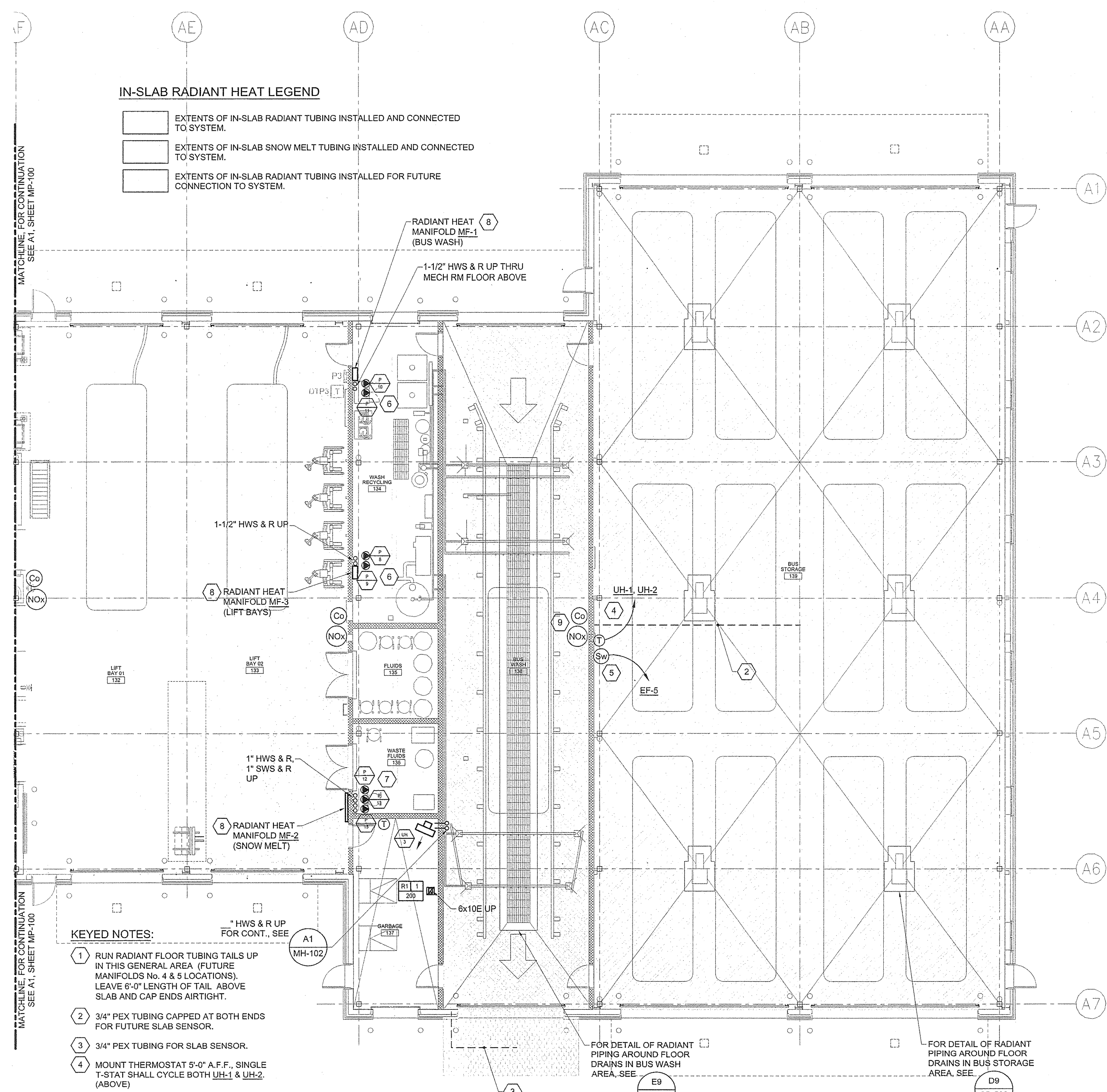
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IN-SLAB RADIANT HEAT LEGEND

- EXTENTS OF IN-SLAB RADIANT TUBING INSTALLED AND CONNECTED TO SYSTEM.
- EXTENTS OF IN-SLAB SNOW MELT TUBING INSTALLED AND CONNECTED TO SYSTEM.
- EXTENTS OF IN-SLAB RADIANT TUBING INSTALLED FOR FUTURE CONNECTION TO SYSTEM.

KEYED NOTES:

- RUN RADIANT FLOOR TUBING TAILS UP IN THIS GENERAL AREA (FUTURE MANIFOLDS No. 4 & 5 LOCATIONS). LEAVE 6'-0" LENGTH OF TAIL ABOVE SLAB AND CAP ENDS AIRTIGHT.
- 3/4" PEX TUBING CAPPED AT BOTH ENDS FOR FUTURE SLAB SENSOR.
- 3/4" PEX TUBING FOR SLAB SENSOR.
- MOUNT THERMOSTAT 5'-0" A.F.F., SINGLE T-STAT SHALL CYCLE BOTH UH-1 & UH-2 (ABOVE)
- MOUNT TIMER SWITCH TO MANUALLY OPERATE EF-5 ADJACENT TO T-STAT AT SAME ELEVATION.
- PUMPS AND 3-WAY VALVE LOCATED ADJACENT TO MANIFOLD. FOR DETAIL SEE A1, SHEET MH-600. TYPICAL OF 2.
- PUMPS, HEAT EXCHANGER AND 3-WAY VALVE LOCATED ADJACENT TO MANIFOLD. FOR DETAIL SEE A1, SHEET MH-600. TYPICAL OF 3.
- REFER TO STRUCTURAL DRAWINGS FOR DETAIL OF GUARD AROUND RADIANT MANIFOLDS, TYPICAL.
- PROVIDE NOx/CO DETECTOR SHIELD PER DETAIL D9, SHEET MP-102. (BUS WASH ONLY)

RADIANT FLOOR CIRCUIT SCHEDULE (BASIS OF DESIGN IS ROTH MFG)								
MANIFOLD ZONE	CIRCUIT NO.	LENGTH (ft) (Circuit + Tail)	FLOW RATE (gal/min)	SUPPLY TEMP (°F)	FOOT OF HEAD	DELTA T	TUBE SPACING (in)	TUBE SIZE
WASH BAY								
MF-1	1	200	1.40	136	5.02	15	10	3/4"
MF-1	2	207	1.39	136	5.07	15	10	3/4"
MF-1	3	203	1.36	136	5.07	15	10	3/4"
MF-1	4	200	1.40	136	5.07	15	10	3/4"
MF-1	5	199	1.40	136	5.07	15	10	3/4"
MF-1	6	198	1.41	136	5.07	15	10	3/4"
MF-1	7	196	1.40	136	5.07	15	10	3/4"
MF-1	8	195	1.40	136	5.07	15	10	3/4"
MF-1	9	193	1.40	136	5.07	15	10	3/4"
MF1	10	194	1.40	136	5.02	15	10	3/4"
			13.96					
SNOW MELT								
MF-2	11	162	1.36	138	3	30	15	3/4"
LIFT BAYS								
MF-3	1	262	0.94	121	3	15	12	3/4"
MF-3	2	255	0.90	121	2.99	15	12	3/4"
MF-3	3	247	0.91	121	2.92	15	12	3/4"
MF-3	4	238	0.91	121	2.86	15	12	3/4"
MF-3	5	230	0.91	121	2.79	15	12	3/4"
MF-3	6	222	0.91	121	2.71	15	12	3/4"
MF-3	7	214	0.91	121	2.64	15	12	3/4"
MF-3	8	206	0.91	121	2.56	15	12	3/4"
MF-3	9	174	0.90	121	2.41	15	12	3/4"
MF-3	10	166	0.90	121	2.32	15	12	3/4"
MF-3	11	158	0.90	121	2.23	15	12	3/4"
MF-3	12	251	0.95	121	3.10	15	12	3/4"
MF-3	13	235	0.95	121	2.98	15	12	3/4"
MF-3	14	219	0.95	121	2.85	15	12	3/4"
MF-3	15	203	0.91	121	2.71	15	12	3/4"
			13.76					
BUS STOR.								
MF-4	1	347	0.84	140	3.30	15	12	3/4"
MF-4	2	332	0.80	140	2.95	15	12	3/4"
MF-4	3	316	0.76	140	2.65	15	12	3/4"
MF-4	4	300	0.73	140	2.28	15	12	3/4"
MF-4	5	284	0.68	140	1.95	15	12	3/4"
MF-4	6	268	0.64	140	1.71	15	12	3/4"
MF-4	7	251	0.59	140	2.95	15	12	3/4"
MF-4	8	317	0.76	140	2.62	15	12	3/4"
MF-4	9	293	0.70	140	2.14	15	12	3/4"
MF-4	10	268	0.64	140	1.71	15	12	3/4"
MF-4	11	313	0.75	140	2.55	15	12	3/4"
			7.89					
BUS STOR.								
MF-5	1	347	0.84	140	3.30	15	12	3/4"
MF-5	2	332	0.80	140	2.95	15	12	3/4"
MF-5	3	316	0.76	140	2.65	15	12	3/4"
MF-5	4	300	0.73	140	2.28	15	12	3/4"
MF-5	5	284	0.68	140	1.95	15	12	3/4"
MF-5	6	268	0.64	140	1.71	15	12	3/4"
MF-5	7	251	0.59	140	2.95	15	12	3/4"
MF-5	8	317	0.76	140	2.62	15	12	3/4"
MF-5	9	293	0.70	140	2.14	15	12	3/4"
MF-5	10	268	0.64	140	1.71	15	12	3/4"
MF-5	11	313	0.75	140	2.55	15	12	3/4"
			7.89					
			43.50					
NOTE: Circuit lengths are estimated based on tubing layout shown on AEI documents.								

NOTE: Circuit lengths are estimated based on tubing layout shown on AEI documents.

PLAN NORTH

A9 KEY PLAN

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DATE

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PIN NO: 16123.50

ANTHONY S. DAVIS
No. 8834
Professional Engineer
State of Maine

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

MECHANICAL PIPING PART PLAN
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MP-101

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Division: -

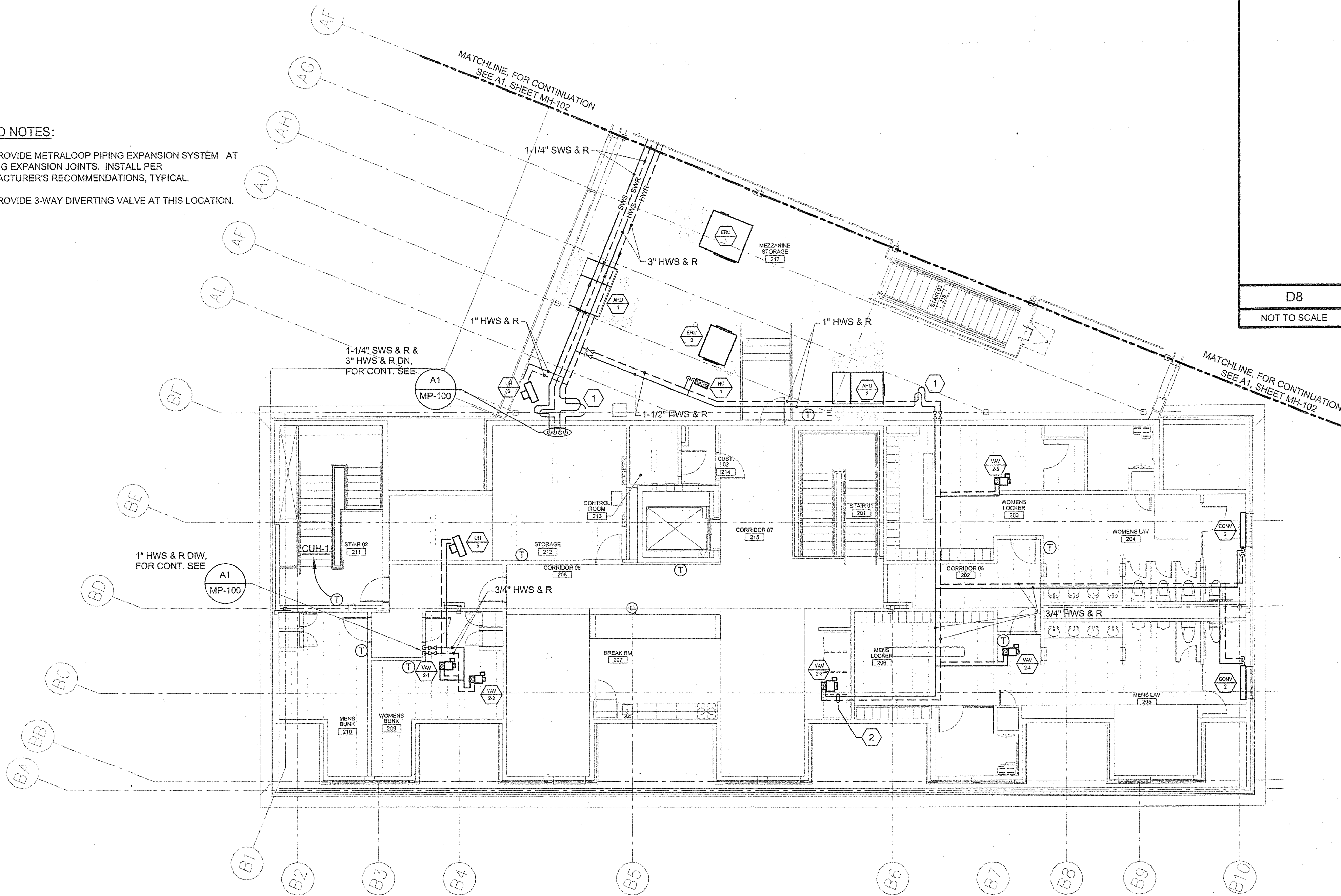
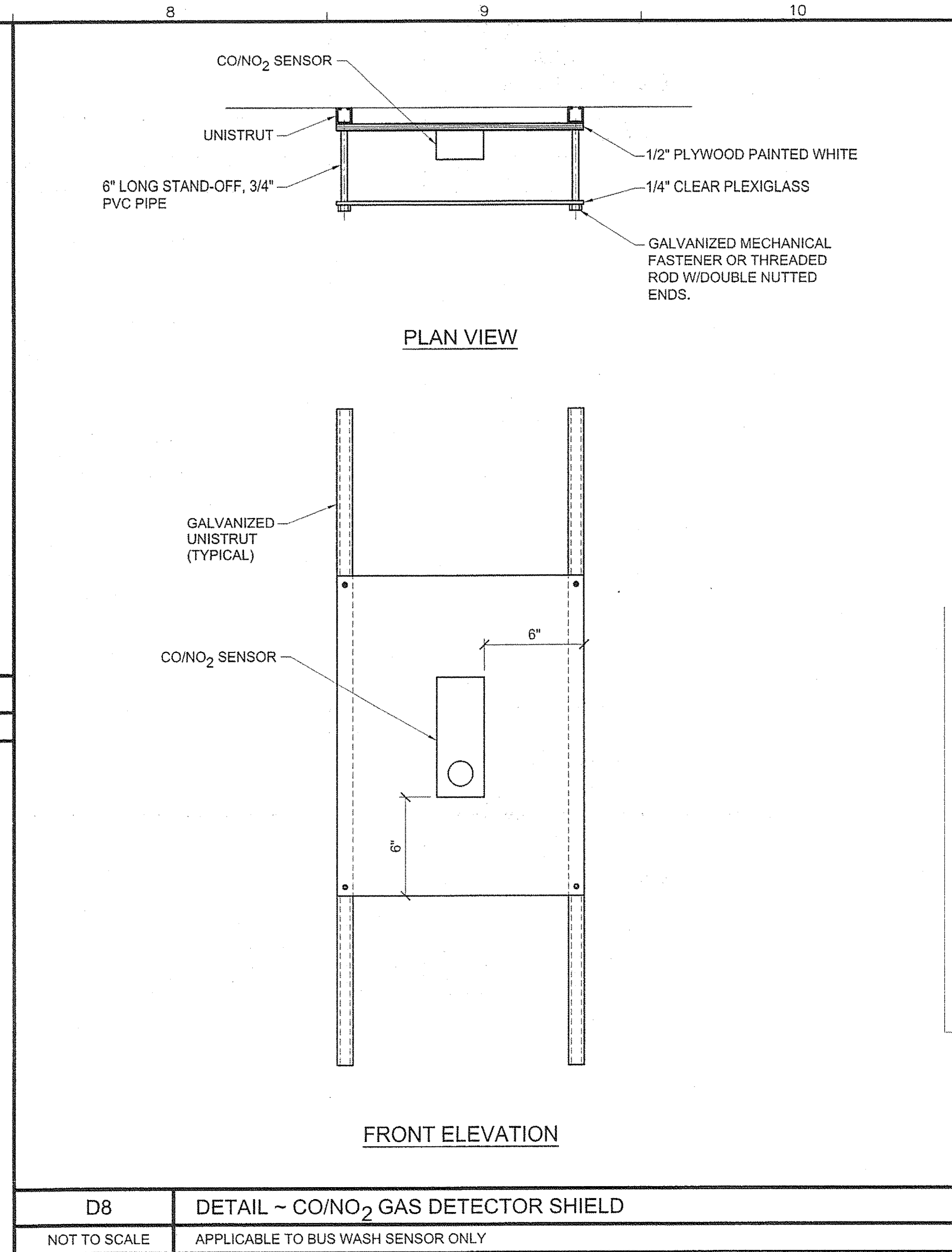
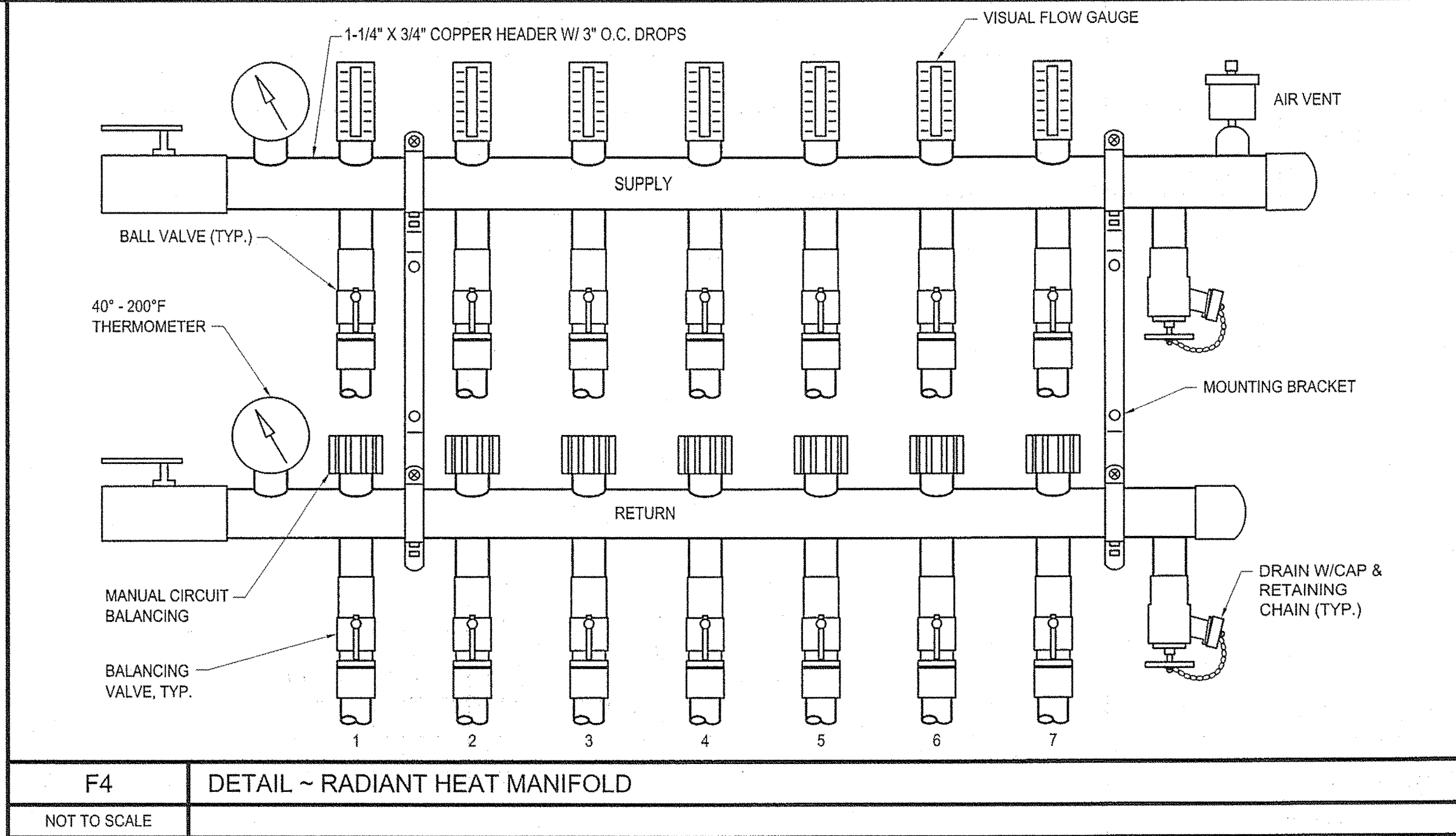
Date: -

Filename: -

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KEYED NOTES:

- 1 PROVIDE METRALOOP PIPING EXPANSION SYSTEM AT BUILDING EXPANSION JOINTS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, TYPICAL.
- 2 PROVIDE 3-WAY DIVERTING VALVE AT THIS LOCATION.



KEY PLAN

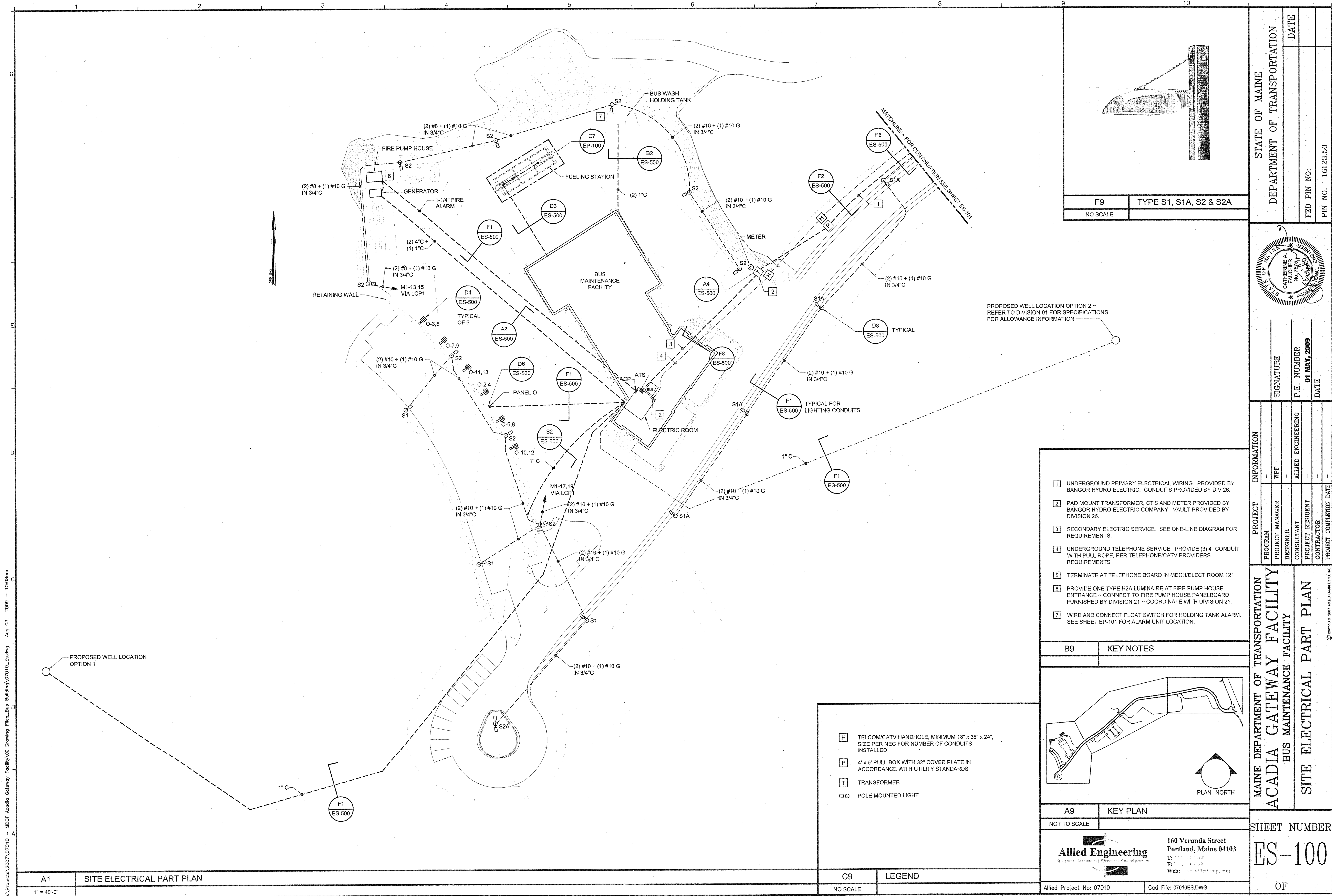
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Allied Project No: 07010 Cod File: 07010M.DWG

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
FED PIN NO:		PIN NO: 16123.50	
SIGNATURE ANTHONY S. DAVIS No. 8834 Professional Engineer		P.E. NUMBER 8834 DATE 01 MAY, 2009	
PROJECT INFORMATION	PROGRAM PROJECT MANAGER DESIGNER CONSULTANT PROJECT RESIDENT CONTRACTOR	WPF - - - - -	PROJECT COMPLETION DATE
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		MECHANICAL PIPING PART PLAN ~ UPPER LEVEL	
SHEET NUMBER A		MP-102	
OF			

SHEET NUMBER
E-000
OF



F9

NO SCALE

TYPE S1, S1A, S2 & S2A

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
DATE	
FED PIN NO.	
PIN NO.	16123.50

1

UNDERGROUND PRIMARY ELECTRICAL WIRING. PROVIDED BY BANGOR HYDRO ELECTRIC. CONDUITS PROVIDED BY DIV 26.

2

PAD MOUNT TRANSFORMER, CT'S AND METER PROVIDED BY BANGOR HYDRO ELECTRIC COMPANY. VAULT PROVIDED BY DIVISION 26.

3

SECONDARY ELECTRIC SERVICE. SEE ONE-LINE DIAGRAM FOR REQUIREMENTS.

4

UNDERGROUND TELEPHONE SERVICE. PROVIDE (3) 4" CONDUIT WITH PULL ROPE, PER TELEPHONE/CATV PROVIDERS REQUIREMENTS.

5

TERMINATE AT TELEPHONE BOARD IN MECH/ELECT ROOM 121

6

PROVIDE ONE TYPE H2A LUMINAIRE AT FIRE PUMP HOUSE ENTRANCE - CONNECT TO FIRE PUMP HOUSE PANELBOARD FURNISHED BY DIVISION 21 - COORDINATE WITH DIVISION 21.

7

WIRE AND CONNECT FLOAT SWITCH FOR HOLDING TANK ALARM. SEE SHEET EP-101 FOR ALARM UNIT LOCATION.

PROJECT INFORMATION

PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
	WPF		ALLIED ENGINEERING			

MAINE DEPARTMENT OF TRANSPORTATION

ACADIA GATEWAY FACILITY

BUS MAINTENANCE FACILITY

SITE ELECTRICAL PART PLAN

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F: 207.254.2260

Web: www.allied-eng.com

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B9

KEY NOTES

A9

KEY PLAN

NOT TO SCALE

ALLIED ENGINEERING

Street/ Mechanical Electrical Communications

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Portland, Maine 04103

T: 207.254.2260

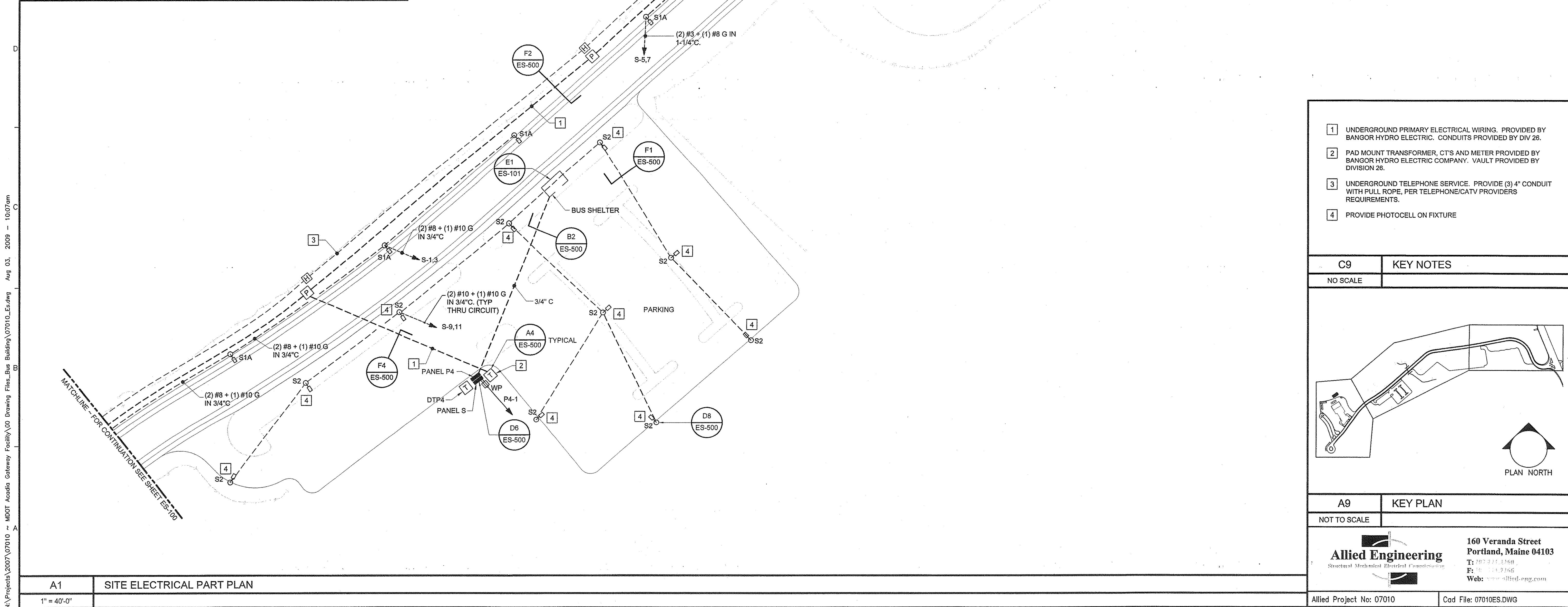
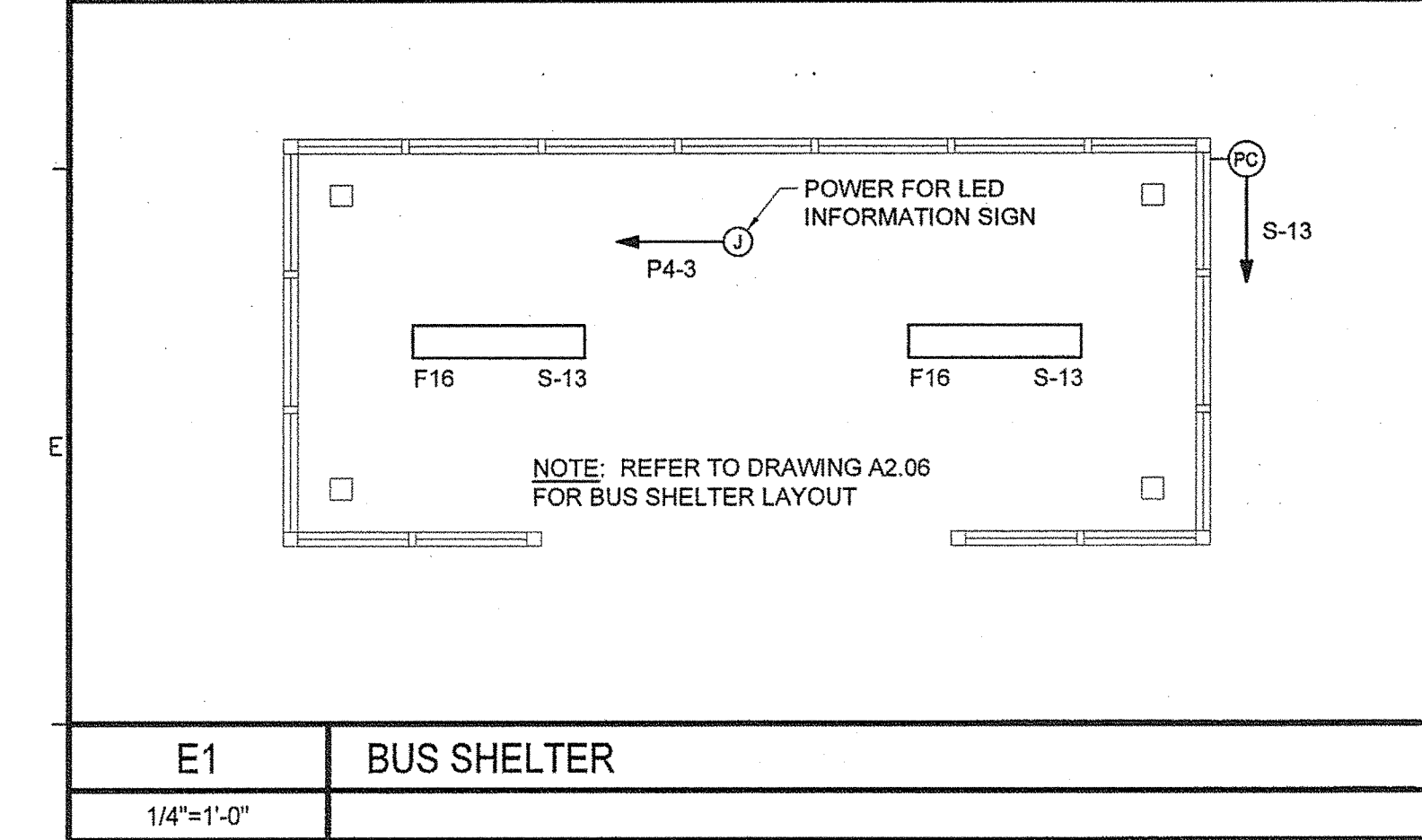
F: 207.254.2260

Web: www.allied-eng.com

ALLIED PROJECT NO: 07010

CAD FILE: 07010ES.DWG

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBERS - SEE NOTE 1	MOUNTING	VOLTS	LAMP			KEY NOTES
						QTY	TOTAL WATTS	TYPE	
S1	AERIS POLE LIGHT, TYPE III DISTRIBUTION ON 25FT POLE	LITHONIA	AST2-250M-SR3-480-SPA-SCWA-HS-DBL	CONCRETE BASE BY DIV 26	480	1	312	250W MH	
S1A	AERIS POLE LIGHT, TYPE III DISTRIBUTION ON 25FT POLE	LITHONIA	AST2-250M-SR3-480-SPA-SCWA-HS-DBL	CONCRETE BASE BY DIV 26	480	1	312	250W MH	2
S2	AERIS POLE LIGHT, TYPE IV DISTRIBUTION, ON 25FT POLE	LITHONIA	AST2-250M-SR4SC-480-SPA-SCWA-DBL	CONCRETE BASE BY DIV 26	480	1	312	250W MH	3
S2A	DOUBLE HEAD POLE LIGHT, TYPE IV DISTRIBUTION SHARP CUTOFF ON 25FT POLE	LITHONIA	AST2-250M-SR4SC-480-SPA-SCWA-DBL	CONCRETE BASE BY DIV 26	480	2	624	250W MH	
NOTES:									
1 NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG #'S. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED.									
2 PROVIDE PHOTOCELL ON FIXTURE									
3 PROVIDE PHOTOCELL ON FIXTURE WHERE NOTED ON PLAN.									
F1	SITE LUMINAIRE SCHEDULE								



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE

FED PIN NO: 16123 50

PIN NO: 16123 50

PROJECT INFORMATION

PROJECT PROGRAM PROJECT MANAGER DESIGNER CONSULTANT PROJECT RESIDENT CONTRACTOR PROJECT COMPLETION DATE

WPF ALLIED ENGINEERING

01 MAY, 2009

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

SITE ELECTRICAL PART PLAN,
DETAILS AND SCHEDULE

ES-101

OF

Username: -

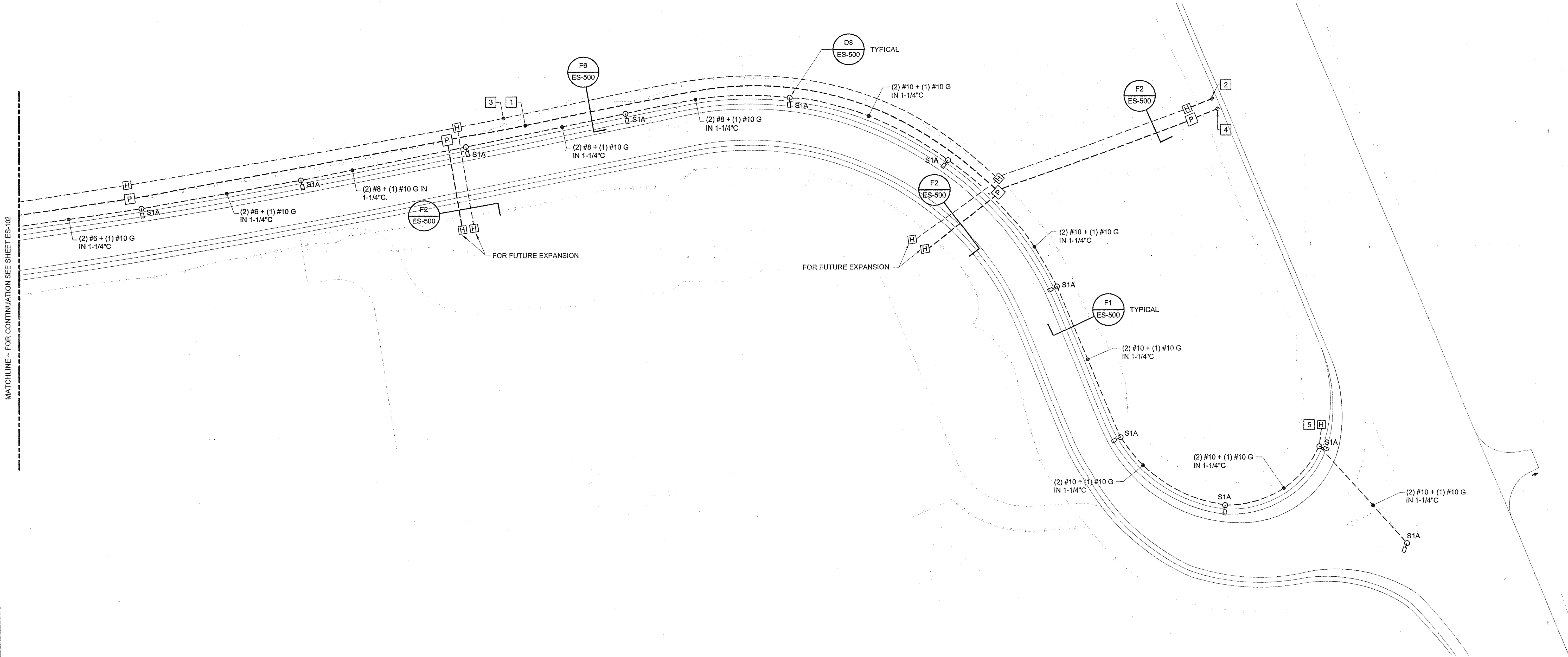
Division: -

Date: -

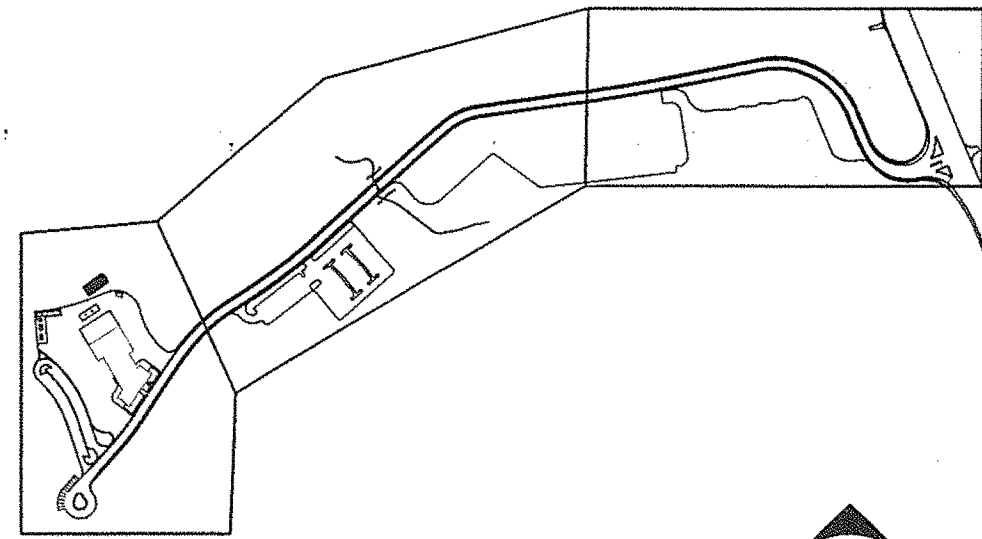
Filename: -

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MATCHLINE - FOR CONTINUATION SEE SHEET ES-102



- 1 UNDERGROUND PRIMARY ELECTRICAL WIRING. PROVIDED BY BANGOR HYDRO ELECTRIC. CONDUITS PROVIDED BY DIV 26.
- 2 COORDINATE TERMINATION LOCATION WITH TELEPHONE/CATV COMPANY.
- 3 UNDERGROUND TELEPHONE SERVICE. PROVIDE (3) 4\" CONDUIT WITH PULL ROPE, PER TELEPHONE PROVIDERS REQUIREMENTS.
- 4 COORDINATE TERMINATION LOCATION WITH BANGOR HYDRO ELECTRIC.
- 5 PROVIDE 1\" CONDUIT TO HANDHOLE FOR FUTURE ROADWAY SIGN



A9 KEY PLAN

NO SCALE

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Allied Project No: 07010
Cod File: 07010ES.DWG

A7 KEY NOTES

A1 SITE ELECTRICAL PART PLAN

1\" = 40'-0\"

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

SITE ELECTRICAL PART PLAN

SHEET NUMBER

ES-102

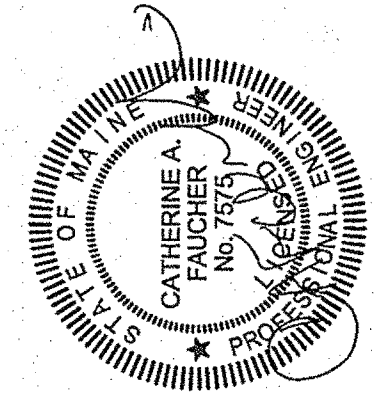
OF

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE

FED PIN NO:

PIN NO: 16123.50



SIGNATURE

P.E. NUMBER

01 MAY, 2009

DATE

PROJECT INFORMATION

PROGRAM

PROJECT MANAGER

DESIGNER

CONSULTANT

PROJECT RESIDENT

CONTRACTOR

PROJECT COMPLETION DATE

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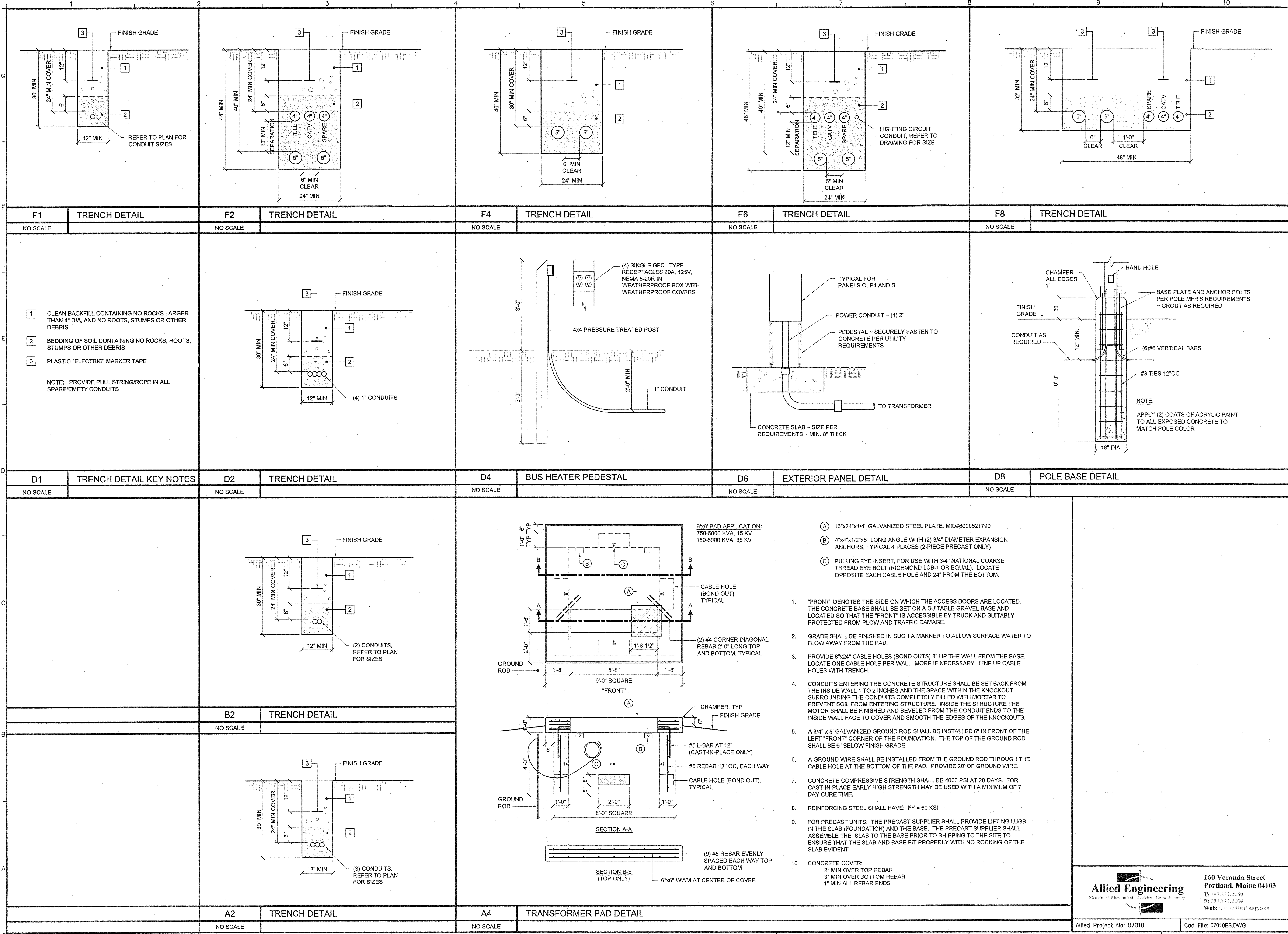
Username:-

Division:-

Date:-

Filename:-

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STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		DATE	
PROJECT INFORMATION		PROJECT MANAGER		DESIGNER	
PROGRAM		PROJECT MANAGER		DESIGNER	
CONSULTANT		ALLIED ENGINEERING		P.E. NUMBER	
PROJECT RESIDENT		CONTRACTOR		DATE	
PROJECT COMPLETION DATE		PROJECT COMPLETION DATE		PROJECT COMPLETION DATE	

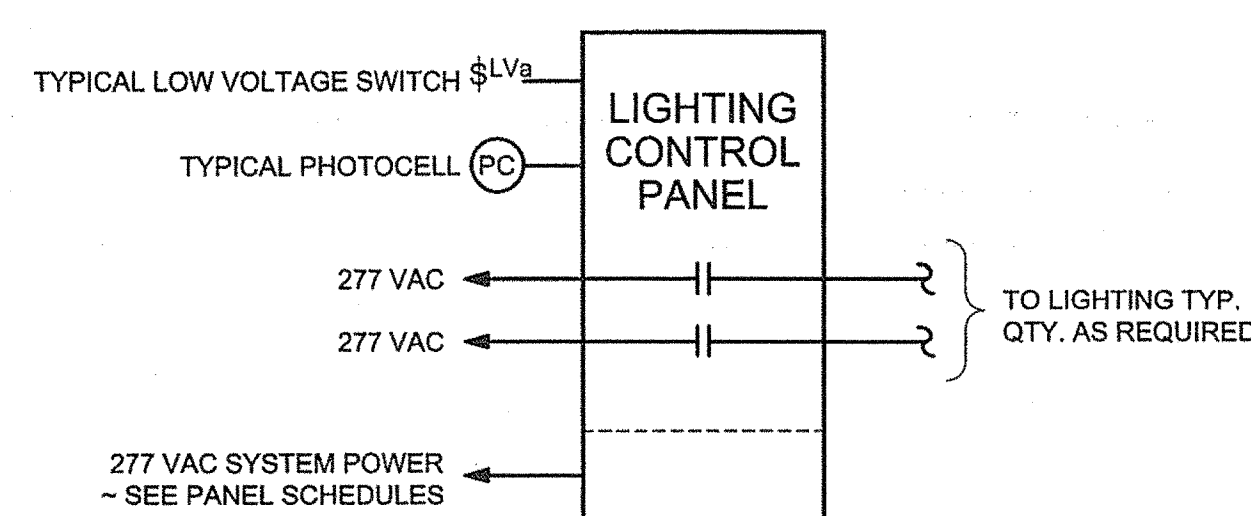
MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

SITE ELECTRICAL
DETAILS

160 Veranda Street
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Allied Project No: 07010 Cad File: 07010ES.DWG

SHEET NUMBER
ES-500
OF

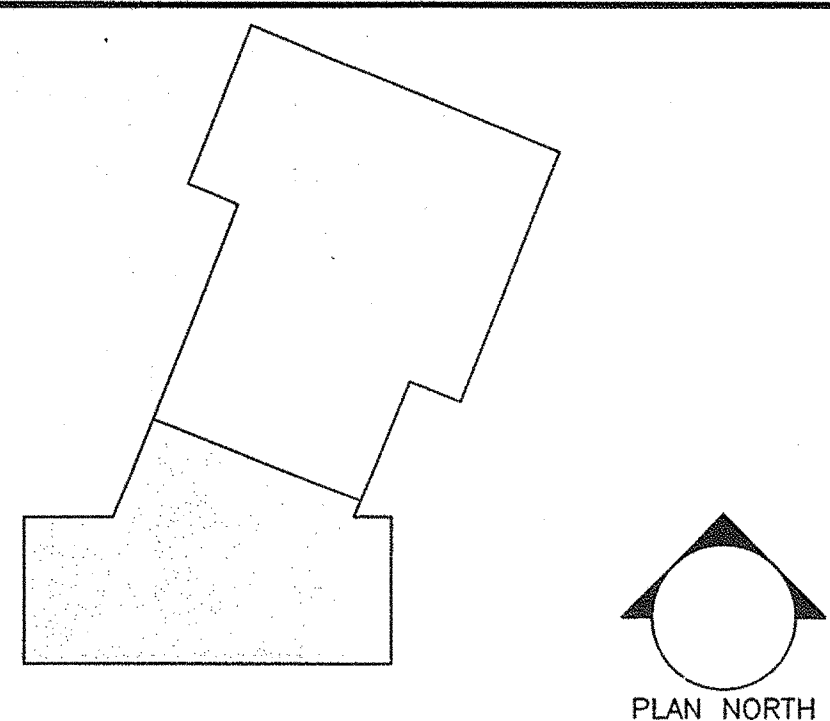
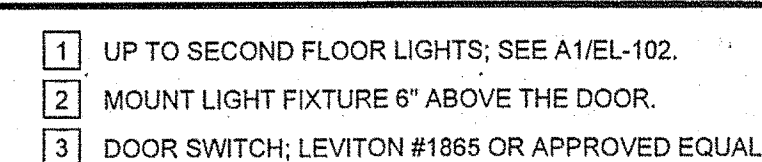


1. RISER DIAGRAM SHOWS TYPICAL CONNECTIONS ONLY. REFER TO FLOOR PLANS FOR QUANTITY OF SWITCHES, CONTROL PANELS, RELAYS, ETC.
2. EXCEPT AS OTHERWISE INDICATED OR NOTED, LIGHTING SHALL BE TURNED ON MANUALLY BY INDICATED SWITCHING. THE LIGHTING CONTROL SYSTEM SHALL PERFORM AN OFF SWEEP AT A TIME DETERMINED BY THE OWNER. SYSTEM SHALL INCLUDE A BLINK WARNING FEATURE TO ALERT BUILDING OCCUPANTS OF IMPENDING OFF SWEEP AND ALLOW OVERRIDE USING INDIVIDUAL SWITCHES.
3. EXTERIOR LIGHTING SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME CLOCK THAT IS AN INTEGRAL PART OF THE LIGHTING CONTROL PANEL.

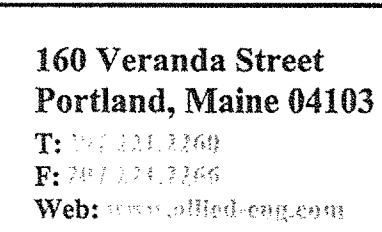
NO SCALE

NOTES:

- 1 NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG #S. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED.
- 2 PROVIDE PROGRAMMED START BALLAST FOR ROOMS WITH OCCUPANCY SENSORS.
- 3 SCHEDULED DATA REPRESENTS BASIS OF DESIGN LUMINAIRE. LUMINAIRE SHALL BE FURNISHED BY THE OWNER.
- 4 PROVIDE "SUPER TB" LAMPS AND MATCHING BALLASTS, BASIS OF DESIGN BASED ON SYLVANIA PROSTART PSX PROGRAMMED RAPID START BALLAST (.71 BALLAST FACTOR) AND MATCHING OCTRO
- 5 XPS LAMPS.
- 6 VERIFY MOUNTING HEIGHT AND STRUCTURE WITH ARCHITECT PRIOR TO ORDERING ANY LIGHTING FIXTURES.
- 7 VERIFY FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURE.
- 8 PROVIDE A SLOPED CEILING ADAPTER
- 9 PROVIDE DIMMING BALLAST WITH FIXTURE WHERE REQUIRED.
- 10 VERIFY MOUNTING HEIGHT PRIOR TO FINAL ROUGH-IN.
- 11 PROVIDE PHOTOCELL ON FIXTURE
- 12 PROVIDE INTEGRAL EMERGENCY BATTERY BACK UP FOR 2 LAMPS.
- 13 PRIOR TO ORDERING SLOPED CEILING ADAPTER VERIFY SLOPE WITH ARCHITECT.
- 14 PROVIDE 6' OF FIELD ADJUSTABLE CORD, VERIFY MOUNTING HEIGHT W/ARCHITECT PRIOR TO FINAL ROUGH-IN.
- 15 PROVIDE LOW VOLTAGE TRANSFORMER.
- 16 PROVIDE AN USHD 18,000 HOUR ULTRA TITAN 36 DEGREE FLOOD LAMP.
- 17 MOUNT LIGHT FIXTURE 2" ABOVE THE METAL GRID UNLESS NOTED OTHERWISE.
- 18 MOUNT FIXTURE FLUSH WITH BOTTOM OF METAL GRID
- 19 WIRE FIXTURE THRU UNDERCOUNTER OCCUPANCY SENSOR WATTSSTOPPER ISOLE #IDP-3050
- 20 MOUNT FIXTURE SO BOTTOM OF FIXTURE IS EVEN WITH BOTTOM OF TRUSS.
- 21 REFER TO DRAWINGS FOR TOTAL LENGTHS OF LIGHT FIXTURES PRIOR TO ORDERING FIXTURES.
- 22 PROVIDE PLASTER FRAME FOR GYP CEILINGS WHERE REQUIRED.
- 23 ALL MOUNTING HEIGHTS ARE TO BOTTOM OF FIXTURE.



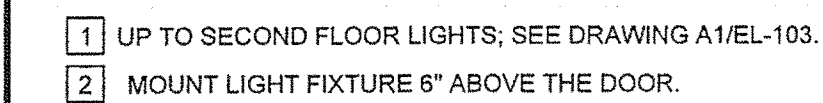
NOT TO SCALE



A7

Cad File: 07010E.DWG

OF



LIGHTING CONTROL PANEL SCHEDULE - LCP2

NETWORK PANEL TO LCP1

DESIGNATION: M2-39

MOUNTING: SURFACE

CONTROL VOLTAGE: 277/480

LOCATION: STORAGE ROOM 212

PROJECT: ACADIA BUS FACILITY

RELAY NO	CIRCUIT	NOTE	DESCRIPTION
1	M2-3	2, 3	LIFT BAY LIGHTING
2	M2-3	2, 3	LIFT BAY LIGHTING
3	M2-5	2, 3	BUS STORAGE LIGHTING
4	M2-5	2, 3	BUS STORAGE LIGHTING
5	M2-7	2, 3	BUS STORAGE LIGHTING
6	M2-7	2, 3	BUS STORAGE LIGHTING
7	M2-9	2	SECOND STORY LIGHTING
8	M2-9	2	SECOND STORY LIGHTING
9	M2-13	2	BUS WASH LIGHTING
10	M2-11	2	MEZZANINE STORAGE/STORAGE
11	M2-23	2	COMPRESSOR AND STORAGE
12			SPARE
13			SPARE
14			SPARE
15			SPARE
16			SPARE
17	P2-9	2	BREAK ROOM 120V LIGHTING
18			SPARE
19			SPARE
20			SPARE
21			SPARE
22			SPARE
23			SPARE
24			SPARE

NOTES:

1

PROGRAM FOR AUTO ON/AUTO OFF CONTROL VIA

2

ASTRONOMICAL CLOCK

3

PROGRAM FOR MANUAL-ON/OFF-OF.

3


PROGRAM FOR AUTO OFF VIA PHOTOCELL FORCING

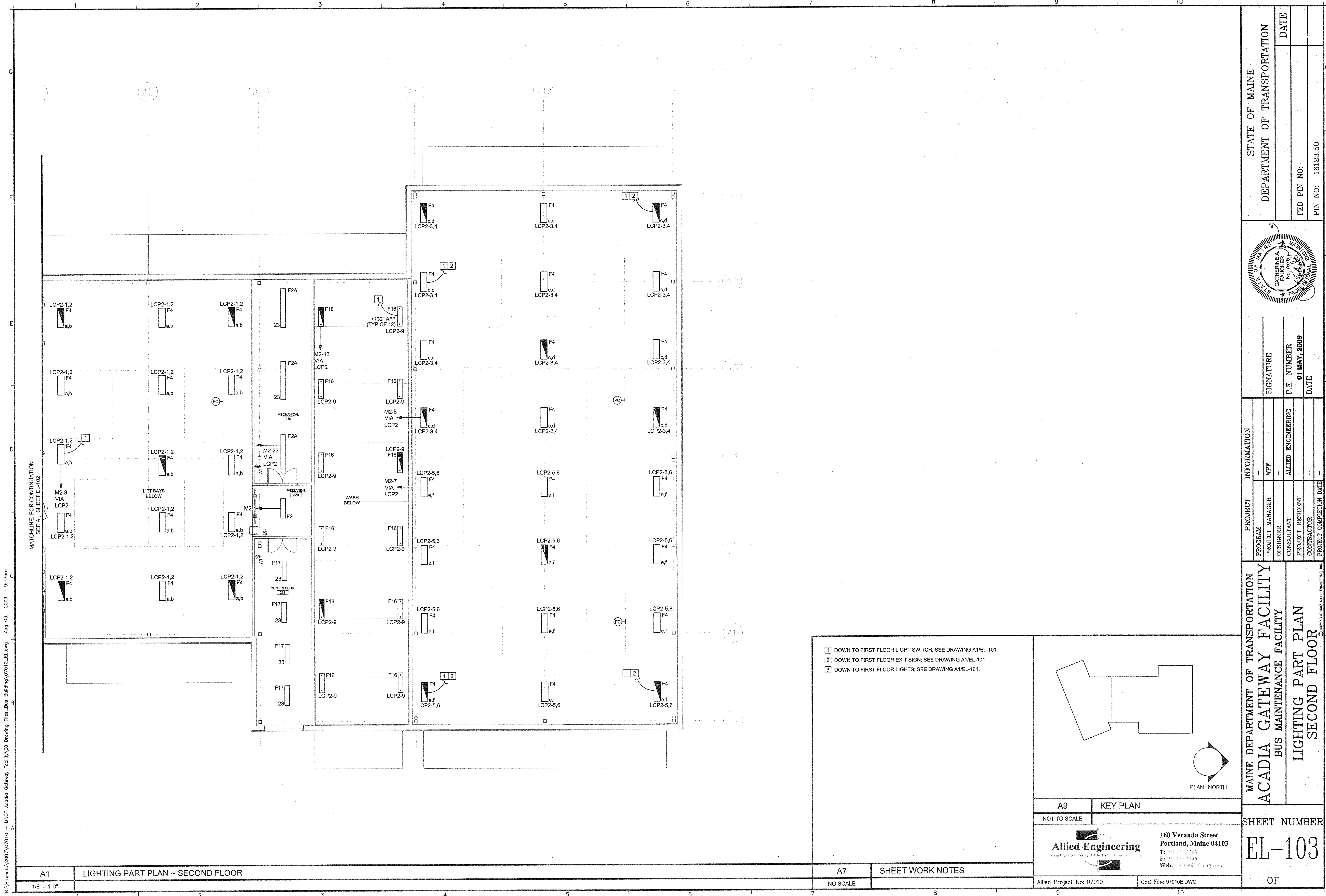
LIGHT FIXTURES TO TURN 1/2 LAMPS OFF WHEN THERE

IS ADEQUATE DAYLIGHT.

SHEET NUMBER EL-101 OF	MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY		PROJECT INFORMATION PROGRAM - PROJECT MANAGER WPF DESIGNER - CONSULTANT ALLIED ENGINEERING PROJECT RESIDENT - CONTRACTOR - PROJECT COMPLETION DATE -		STATE OF MAINE DEPARTMENT OF TRANSPORTATION FED PIN NO: PIN NO: 16123-50
	LIGHTING PART PLAN ~ FIRST FLOOR		SIGNATURE P.E. NUMBER 01 MAY, 2009 DATE		

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Web: www.colled-eng.com

SHEET NUMBER						
EL-102						
OF						
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY			STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
LIGHTING PART PLAN SECOND FLOOR						
			PROJECT INFORMATION			
			PROGRAM	-		
			PROJECT MANAGER	WFF		
			DESIGNER	SIGNATURE		
			CONSULTANT	P.E. NUMBER		
			PROJECT RESIDENT	DATE		
CONTRACTOR			FED PIN NO:			
PROJECT COMPLETION DATE			PIN NO:	16123.50		



Username: -

Division: -

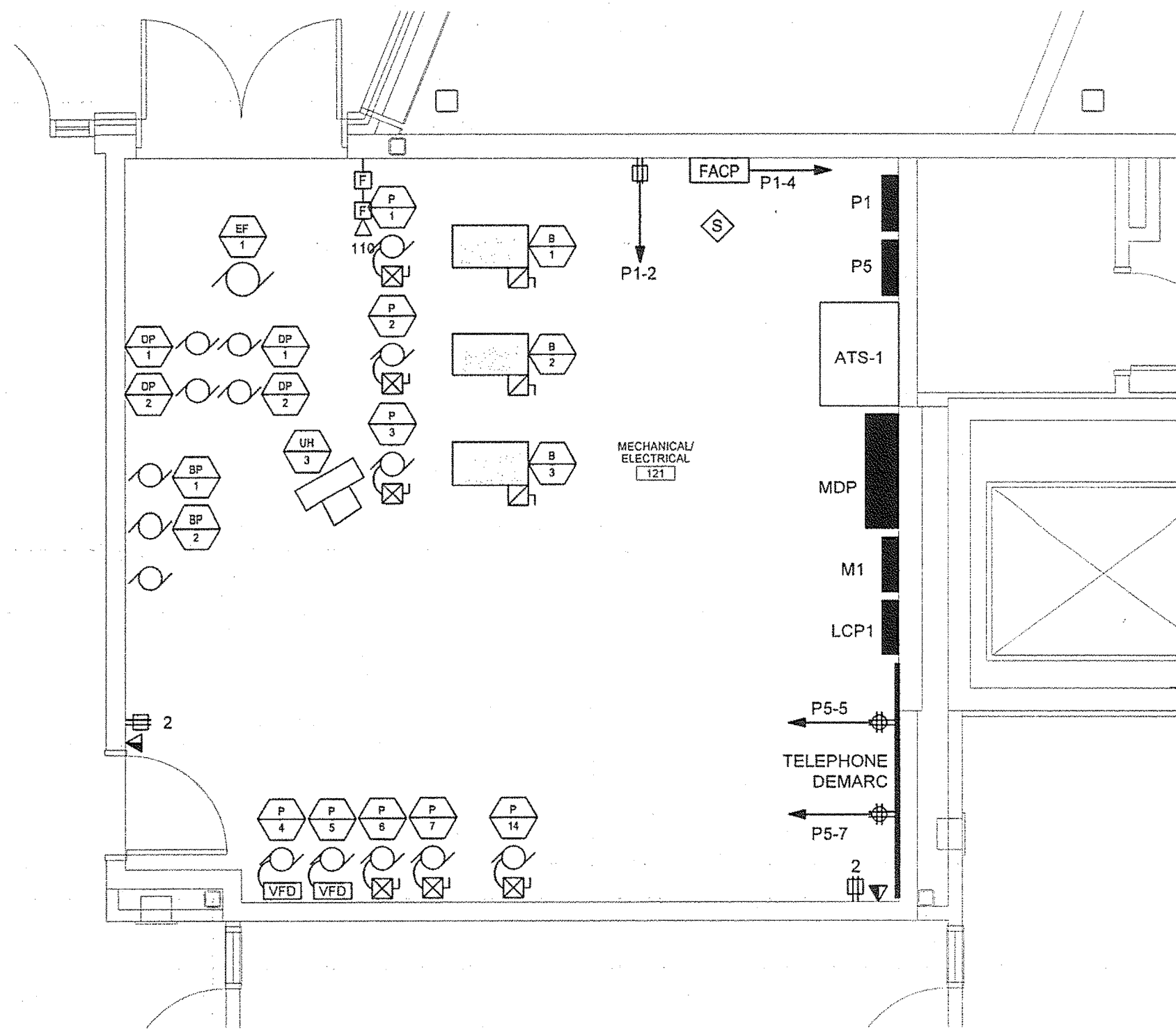
Date: -

Filename: -

PANEL SCHEDULE ~ O PROVIDE WITH NEMA 3R ENCLOSURE									
VOLTAGE: 120/208V				MLO: 100A			MOUNTING: PEDESTAL		
3 PHASE, 4 WIRE							LOCATION: BUS LOT		
AIC: 10K							PROJECT: ACADIA BUS BLDG		
CIRCUIT BREAKER				CIRCUIT LOAD (KVA)			BRANCH CIRCUIT DESCRIPTION		
CKT NO	BRKR SIZE	NO OF POLE	PH	A	B	C			
1	20	1	A				SPARE		
3	20	1	B		0.36		RECEPTACLE ~ BUS HEATERS		
5	20	1	C			0.36	RECEPTACLE ~ BUS HEATERS		
7	20	1	A	0.36			RECEPTACLE ~ BUS HEATERS		
9	20	1	B		0.36		RECEPTACLE ~ BUS HEATERS		
11	20	1	C			0.36	RECEPTACLE ~ BUS HEATERS		
13	20	1	A	0.36			RECEPTACLE ~ BUS HEATERS		
15	20	1	B				SPARE		
17	20	1	C				SPARE		
SUBTOTAL:				0.72	0.72	0.72			
2	20	1	A	0.36			RECEPTACLE ~ BUS HEATERS		
4	20	1	B		0.36		RECEPTACLE ~ BUS HEATERS		
6	20	1	C			0.36	RECEPTACLE ~ BUS HEATERS		
8	20	1	A	0.36			RECEPTACLE ~ BUS HEATERS		
10	20	1	B		0.36		RECEPTACLE ~ BUS HEATERS		
12	20	1	C			0.36	RECEPTACLE ~ BUS HEATERS		
14	20	1	A				SPARE		
16	20	1	B				SPARE		
18	20	1	C				SPARE		
SUBTOTAL:				0.72	0.72	0.72			

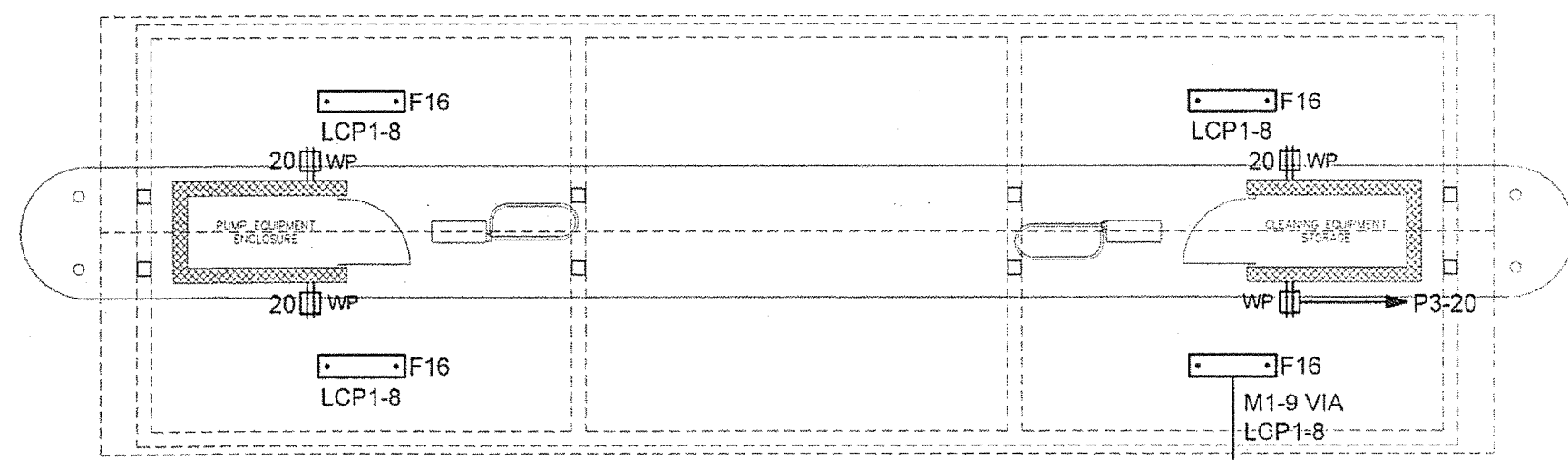
PANEL SCHEDULE ~ P4 PROVIDE WITH NEMA 3R ENCLOSURE									
VOLTAGE: 120/208V				MLO:			MOUNTING: PEDESTAL		
3 PHASE, 4 WIRE				MCB: 60A			LOCATION: COMMUTER PARKING LOT		
AIC: 10K							PROJECT: ACADIA BUS BLDG		
CIRCUIT BREAKER				CIRCUIT LOAD (KVA)			BRANCH CIRCUIT DESCRIPTION		
CKT NO	BRKR SIZE	NO OF POLE	PH	A	B	C			
1	20	1	A	0.18			COMMUTER LOT RECEPTACLE		
3	20	1	B		0.10		BUS SHELTER INFORMATION SIGN		
5	20	1	C						
7	20	1	A						
9	20	1	B						
11	20	1	C						
13	20	1	A						
15	20	1	B						
17	20	1	C						
SUBTOTAL:				0.18	0.10	0.00			
2	20	1	A						
4	20	1	B						
6	20	1	C						
8	20	1	A						
10	20	1	B						
12	20	1	C						
14	20	1	A						
16	20	1	B						
18	20	1	C						
54	20	1	C				SPARE		
SUBTOTAL:				0.00	0.00	0.00			

PANEL SCHEDULE ~ S PROVIDE WITH NEMA 3R ENCLOSURE												
VOLTAGE: 277/480V				MLO:			MOUNTING: PEDESTAL					
3 PHASE, 4 WIRE				MCB: 100A			LOCATION: COMMUTER PARKING LOT					
AIC: 10K				PROJECT: ACADIA BUS BLDG								
CIRCUIT BREAKER				CIRCUIT LOAD (KVA)			BRANCH CIRCUIT DESCRIPTION					
CKT NO	BRKR SIZE	NO OF POLE	PH	A	B	C						
1	20	2	A	1.09			ROADWAY LIGHTING					
3			B		1.09							
5			C			2.80	ROADWAY LIGHTING					
7			A	2.80								
9			B		2.34		PARKING LOT LIGHTING					
11	20	2	C			2.34						
13	20	1	A	0.32			BUS SHELTER LIGHTING					
15	20	1	B				SPARE					
17	20	1	C				SPARE					
SUBTOTAL:				4.21	3.43	5.14						
2			A	0.18			PANEL P4 VIA XFMR DTP4					
4	30	3	B		0.10							
6			C			0.00						
8	20	1	A				SPARE					
10	20	1	B				SPARE					
12	20	1	C				SPARE					
14	20	1	A				SPARE					
16	20	1	B				SPARE					
18	20	1	C				SPARE					
SUBTOTAL:				0.18	0.10	0.00						



E7 ENLARGED MECHANICAL/ELECTRICAL 118 PLAN

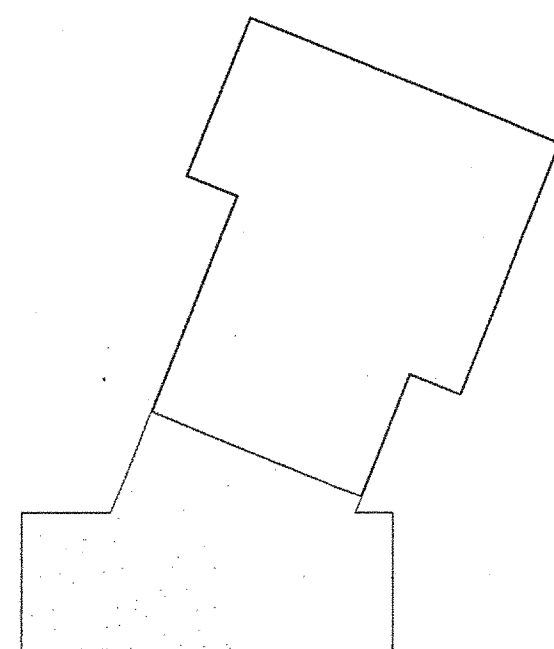
1/4" = 1'-0"



F1 PROPANE FUEL CENTER ~ POWER AND LIGHTING

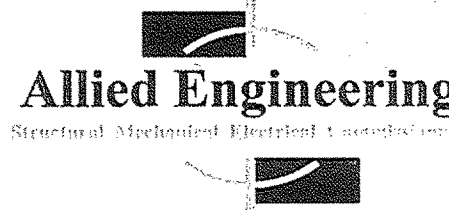
1/8" = 1'-0"

- 1 PROVIDE A 120V CONNECTION TO ROLL-UP SCREEN. VERIFY LOCATION PRIOR TO FINAL ROUGH-IN. PROVIDE A UP/DOWN MOTOR RATED SWITCH
- 2 JUNCTION BOX FOR SYSTEMS FURNITURE. VERIFY TYPE AND LOCATION PRIOR TO FINAL ROUGH-IN.
- 3 WIRE SPEAKERS TO RCA JACK, MOUNT JACK 18" AFF
- 4 PROVIDE A JUNCTION BOX ABOVE THE CEILING FOR MECHANICAL CONNECTIONS FOR VAV BOXES.
- 5 RECEPTACLE FOR TABLE LAMP.
- 6 WIRING IN THIS ROOM SHALL BE SUITABLE FOR CLASS I, DIVISION 2 HAZARDOUS LOCATIONS



A9 KEY PLAN

NOT TO SCALE



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Allied Project No: 07010

Cad File: 07010E.DWG

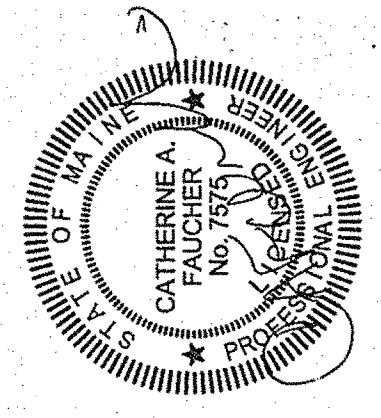
A7 SHEET WORK NOTES

NO SCALE

A1 POWER AND SYSTEMS PART PLAN ~ FIRST FLOOR

1/8" = 1'-0"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SIGNATURE
P.E. NUMBER
01 MAY, 2009
DATE

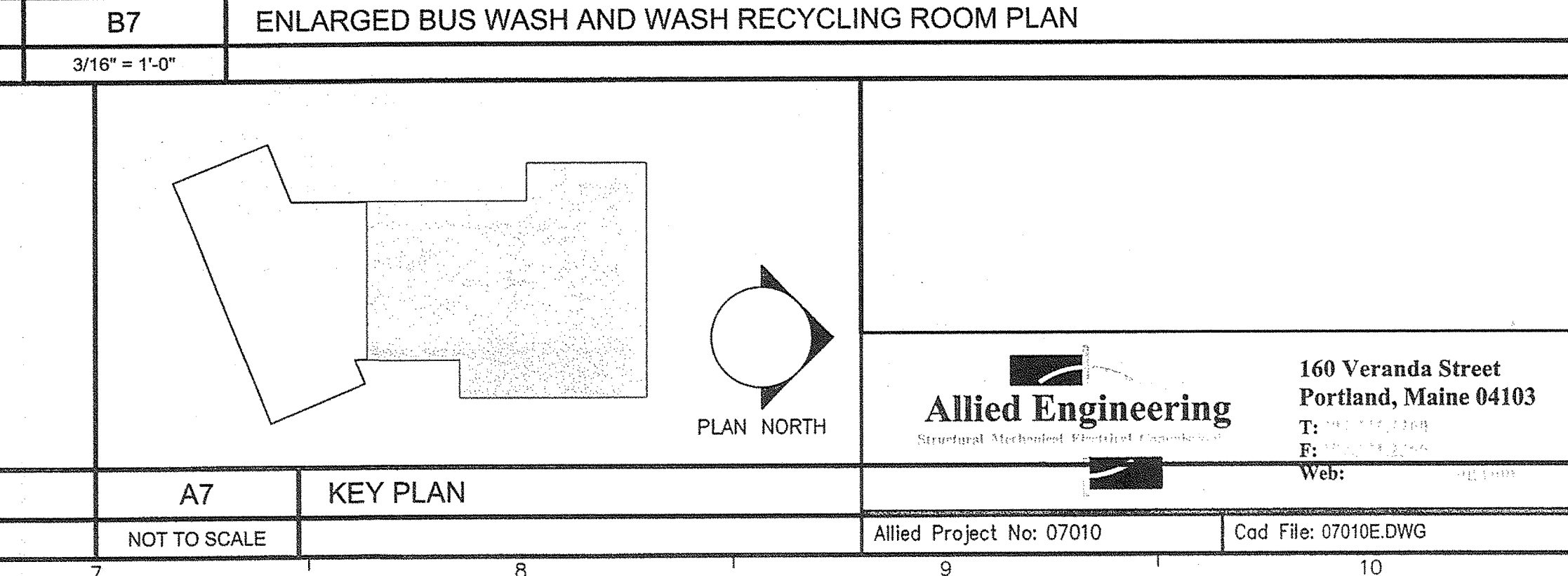
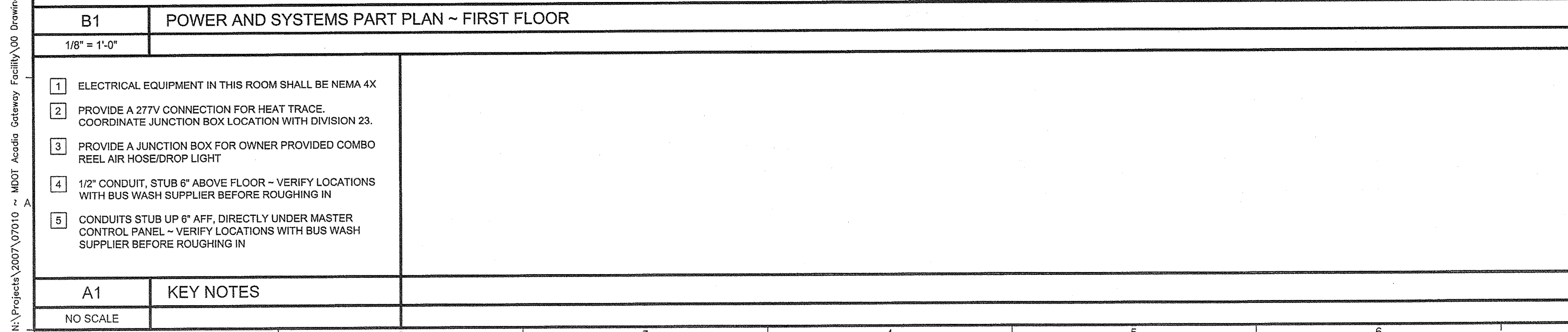
PROJECT INFORMATION
PROGRAM
PROJECT MANAGER
DESIGNER
CONSULTANT
PROJECT RESIDENT
CONTRACTOR
PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY
POWER AND SYSTEMS
PART PLAN ~ FIRST FLOOR

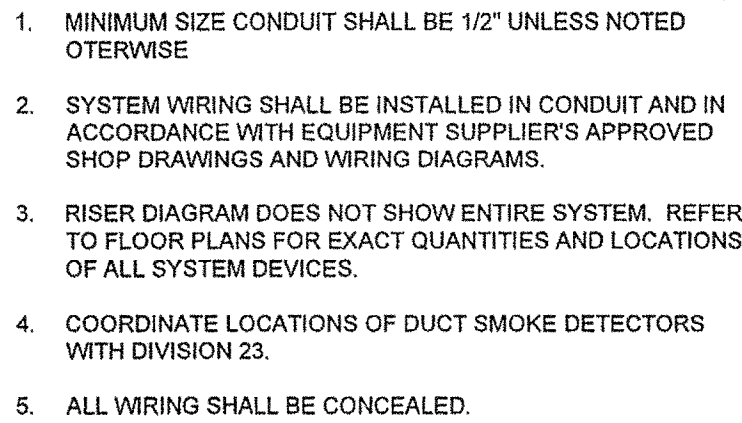
SHEET NUMBER

EP-100

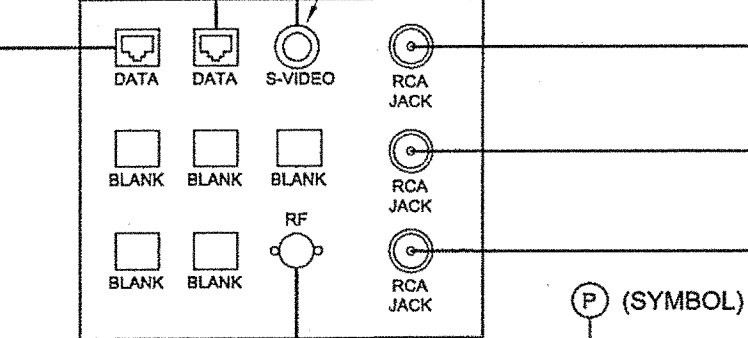
OF



SHEET NUMBER
EP-101
OF



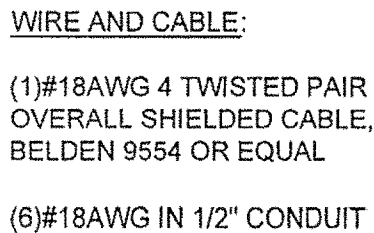
- 1 PROVIDE CIRCUITS AS REQUIRED FOR AUDIBLE/VISUAL SIGNALS.
- 2 SHALL ALLOW THE CIRCUIT BREAKER TO TRIP, BUT PREVENT SWITCHING OF THE CIRCUIT BREAKER TO THE "OFF" POSITION.
- 3 TO AUXILIARY CONTACTS IN RESPECTIVE AIR-HANDLING UNIT STARTER FOR UNIT SHUTDOWN ON ALARM LEVEL, NOT SMOKE DETECTOR, AND CORRESPONDING REMOTE TEST STATION UNIQUELY. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT.
- 4 SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR HVAC CONTROLS.
- 5 CONNECT TO REMAINING INITIATING DEVICES. SEE FLOOR PLANS.
- 6 CONNECT TO REMAINING NOTIFICATION DEVICES. SEE FLOOR PLANS PROVIDE NUMBER OF CIRCUITS AS REQUIRED.
- 7 PROVIDE CONTACTS FOR ALL DETECTORS AND CONNECT TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. OPERATION OF SMOKE CAUSES ELEVATOR TO GO TO FLOOR OF EGRESS AND LOCK OUT WITH DOOR OPEN. OPERATION OF SMOKE SHALL ALSO CAUSE VENTILATION LOUVER AT TOP OF SHAFT TO OPEN. 138° HEAT DETECTOR OPERATION CAUSES SHUNT TRIP CIRCUIT BREAKER TO DISCONNECT ALL POWER TO THE ELEVATOR. MOUNT ALL DETECTORS WITHIN 2' OF THEIR RESPECTIVE SPRINKLER HEAD.
- 8 NOT USED.
- 9 STROBES SHALL BE SYNCHRONIZED IN AREAS CONTAINING MULTIPLE UNITS.
- 10 VERIFY AND WIRE ACTUAL QUANTITY OF SPRINKLER SYSTEM DEVICES.
- 11 PROVIDE ONLY IF SPRINKLER HEAD IS LOCATED AT TOP OF SHAFT - COORDINATE WITH DIVISION 21.



2 SCALE

NO SCALE

DETAIL SHOWS WIRING BETWEEN (P) — & ^{AC} (P)



NO SCALE

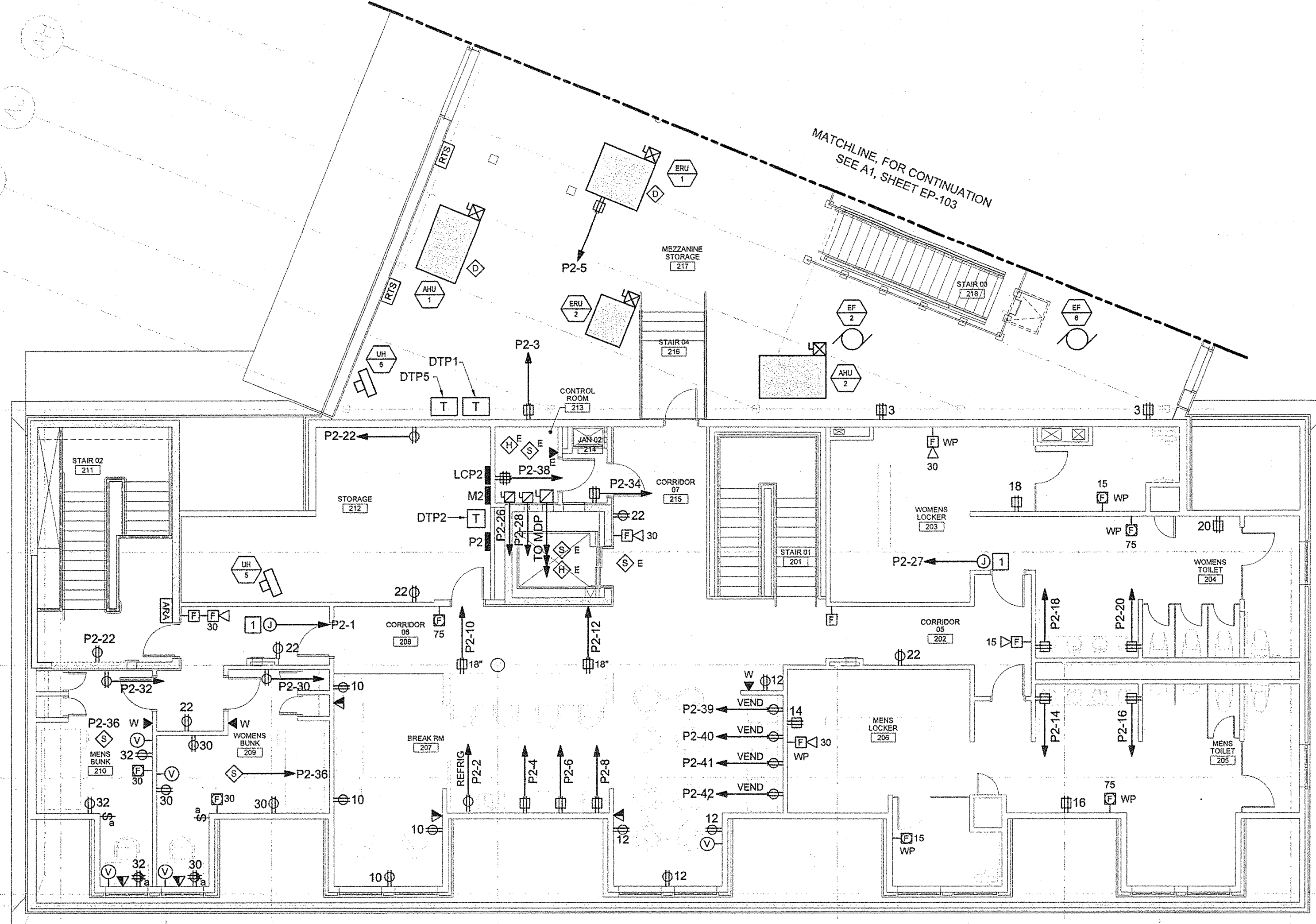
- 1 PROVIDE A JUNCTION BOX FOR MECHANICAL CONTROLS



NOT TO SCALE

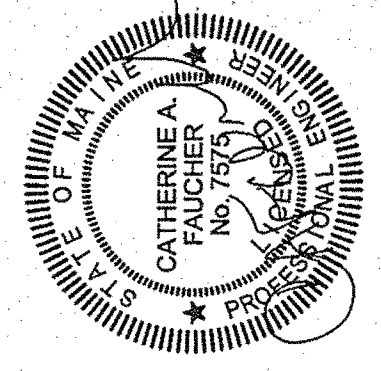
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Cad File: 07010E.DWG



A1

PIN NO. 16123 50



DATE _____

1000

PLAN 2 SECOND FLOOR

OF

Username:-

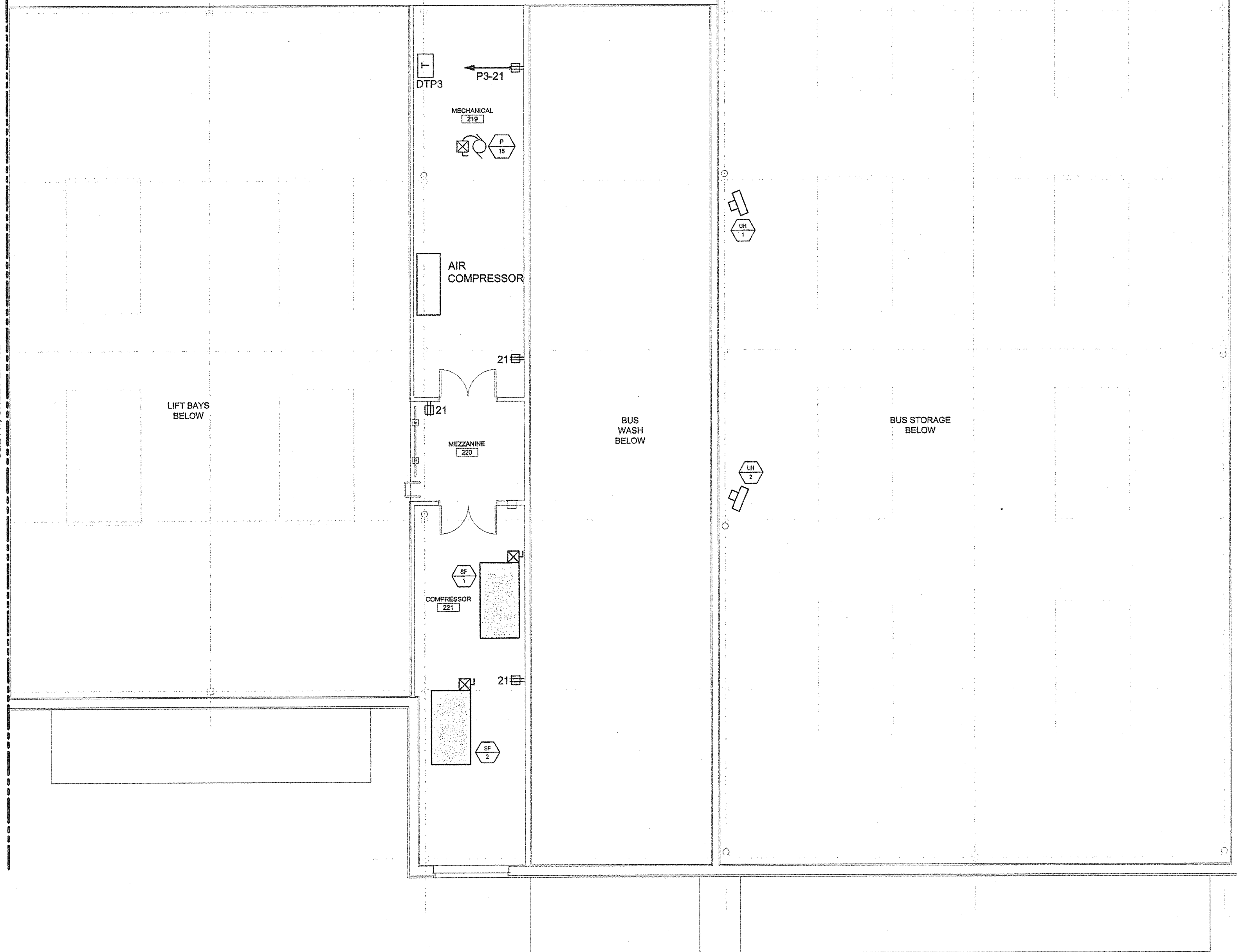
Division:-

Date:-

Filename:-

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MATCHLINE FOR CONTINUATION
SEE A1, SHEET EP-102



A1

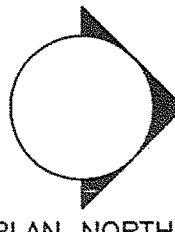
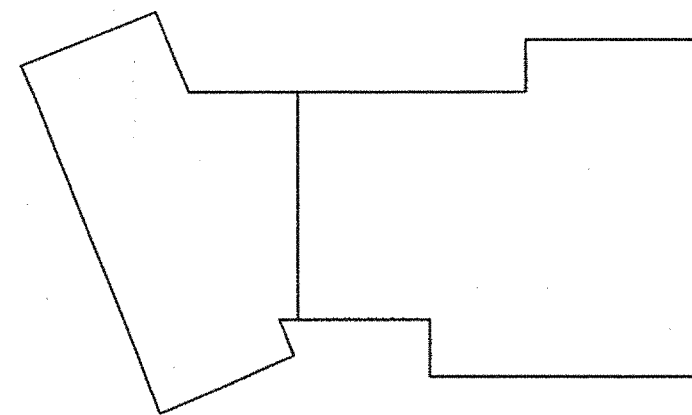
POWER AND SYSTEMS PART PLAN ~ SECOND FLOOR

1/8" = 1'-0"

ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT																
TAG	DESCRIPTION	VOLTS	PH	LOAD	MCA	MOPD	DISCONNECT SWITCH				STARTER (NEMA)			PANEL	WIRING IN CONDUIT	NOTES
							FRAME	POLES	FUSE	NEMA ENCL.	FBD	SIZE/VFD	FBD	CBD		
	ELEVATOR	480	3	40 HP	--	--	100	3	80	NEMA 1	26	FWE	14	14	MDP	(3)#2+(1)#6G
	ELEVATOR LIGHTS AND FAN	120	1	--	--	--	30	1	20	NEMA 1	26	--	--	--	P2	(2) #12 + (1) #12G
	ELEVATOR SUMP PUMP	120	1	--	--	--	30	1	20	NEMA 1	26	--	--	--	P2	(2) #12 + (1) #12G
	AIR COMPRESSOR	480	3	(2) 7.5HP	--	--				FWE	22	FWE	--	22	M2	(3)#8+(1)#10G
ERU-1	ENERGY RECOVERY UNIT	208	3	--	2.1	15	30	3	15	NEMA 1	26	00	26	23	P2	(3) #12+ (1) #12 G
ERU-2	ENERGY RECOVERY UNIT	208	3	--	7.0	20	30	3	20	NEMA 1	26	00	26	23	P2	(3) #12+ (1) #12 G
CU-1	CONDENSING UNIT	480	3	--	12	20	30	3	20	NEMA 3R	26	--	--	23	M2	(3) #12+ (1) #12 G
CU-2	CONDENSING UNIT	480	3	--	12	20	30	3	20	NEMA 3R	26	--	--	23	M2	(3) #12+ (1) #12 G
CU-3	CONDENSING UNIT	480	3	--	5	15	30	3	15	NEMA 3R	26	--	--	23	M2	(3) #12+ (1) #12 G
CU-4	CONDENSING UNIT	480	3	--	5	15	30	3	15	NEMA 3R	26	--	--	23	M2	(3) #12+ (1) #12 G
B-1	BOILER	120	1	--	15	--	20	1	NF	NEMA 1	26	--	--	23	P1	(2) #12+ (1) #12 G
B-2	BOILER	120	1	--	15	--	20	1	NF	NEMA 1	26	--	--	23	P1	(2) #12+ (1) #12 G
B-3	BOILER	120	1	--	15	--	20	1	NF	NEMA 1	26	--	--	23	P1	(2) #12+ (1) #12 G
AHU-1	AIR HANDLING UNIT	480	3	5 HP	--	--				FWE	23	VFD	23	23	M2	(3) #12+ (1) #12 G
AHU-2	AIR HANDLING UNIT	480	3	2 HP	--	--				FWE	23	VFD	23	23	M2	(3) #12+ (1) #12 G
CUH-1	CABINET UNIT HEATER	120	1	85W	--	--				FWE	23	--	--	23	P1	(2) #12+ (1) #12 G
CUH-2	CABINET UNIT HEATER	120	1	70W	--	--				FWE	23	--	--	23	P1	(2) #12+ (1) #12 G
CUH-3	CABINET UNIT HEATER	120	1	70W	--	--				FWE	23	--	--	23	P1	(2) #12+ (1) #12 G
CUH-4	CABINET UNIT HEATER	120	1	70W	--	--				FWE	23	--	--	23	P1	(2) #12+ (1) #12 G
UH-1	UNIT HEATER	120	1	1/3 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
UH-2	UNIT HEATER	120	1	1/3 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
UH-3	UNIT HEATER	120	1	1/20HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P1	(2) #12+ (1) #12 G
UH-3A	UNIT HEATER	120	1	1/20HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
UH-4	UNIT HEATER	120	1	1/20HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P2	(2) #12+ (1) #12 G
UH-5	UNIT HEATER	120	1	1/20HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P2	(2) #12+ (1) #12 G
UH-6	UNIT HEATER	120	1	1/20HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P2	(2) #12+ (1) #12 G
P-1	BOILER B-1	208	3	1 HP	--	--	30	3	15	NEMA 1	26	00	26	23	P1	(3) #12+ (1) #12 G
P-2	BOILER B-2	208	3	1 HP	--	--	30	3	15	NEMA 1	26	00	26	23	P1	(3) #12+ (1) #12 G
P-3	BOILER B-3	208	3	1 HP	--	--	30	3	15	NEMA 1	26	00	26	23	P1	(3) #12+ (1) #12 G
P-4	AHUs, UHs, VAVs, & RADIANT	208	3	2HP	--	--	30	3	15	NEMA 1	26	VFD	23	23	P1	(3) #12+ (1) #12 G
P-5	AHUs, UHs, VAVs, & RADIANT	208	3	2HP	--	--	30	3	15	NEMA 1	26	VFD	23	23	P1	(3) #12+ (1) #12 G
P-6	DHW-1, 2, 3	208	3	0.5 HP	--	--	30	3	15	NEMA 1	26	00	26	23	P1	(3) #12+ (1) #12 G
P-7	DHW-1, 2, 3	208	3	0.5 HP	--	--	30	3	15	NEMA 1	26	00	26	23	P1	(3) #12+ (1) #12 G
P-8	RADIANT FLOOR LIFT BAYS	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
P-9	RADIANT FLOOR LIFT BAYS	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
P-10	RADIANT FLOOR BUS WASH	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
P-11	RADIANT FLOOR BUS WASH	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
P-12	SNOW MELT (HX-1)	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
P-13	SNOW MELT SLAB	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
P-14	SOLAR HEATING	120	1	0.1 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P1	(2) #12+ (1) #12 G
P-15	SOLAR DUMP ZONE (HX-2)	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P3	(2) #12+ (1) #12 G
EF-1	EXHAUST FAN - MECHANICAL ROOM	120	1	1/25 HP	--	--				FWE	23	--	--	23	P1	(2) #12+ (1) #12 G
EF-2	EXHAUST FAN - TIC ROOM	120	1	1/8 HP	--	--				FWE	23	--	--	23	P2	(2) #12+ (1) #12 G
EF-3	EXHAUST FAN - LIFT BAY	208	3	1.5 HP	--	--	30	3	15	NEMA 1	26	0	26	23	P3	(3) #12+ (1) #12 G
EF-4	EXHAUST FAN - BUS WASH	208	3	3/4 HP	--	--	30	3	15	NEMA 1	26	00	26	23	P3	(3) #12+ (1) #12 G
EF-5	EXHAUST FAN - BUS STORAGE	120	1	1/4HP	--	--				FWE	23	--	--	23	P3	(2) #12+ (1) #12 G
EF-6	EXHAUST FAN - MAINT STOR RM	120	1	1/8HP	--	--				FWE	23	--	--	23	P2	(2) #12+ (1) #12 G
EF-7	EXHAUST FAN - GARBAGE ROOM	120	1	1/8HP	--	--				FWE	23	--	--	23	P7	(2) #12+ (1) #12 G
SF-1	SUPPLY FAN - LIFT BAY	208	3	1.5 HP	--	--	30	3	15	NEMA 1	26	0	26	23	P3	(3) #12+ (1) #12 G
SF-2	SUPPLY FAN - BUS WASH	208	3	3/4 HP	--	--	30	3	15	NEMA 1	26	00	26	23	P3	(3) #12+ (1) #12 G
DP-1	DHW RECIRC	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P1	(2) #12+ (1) #12 G
DP-2	DHW MIXING	120	1	1/8 HP	--	--	20	1	NF	NEMA 1	26	--	--	23	P1	(2) #12+ (1) #12 G
BP-1	BOOSTER PUMP	480	3	(2) 3HP	--	--	30	3	15	NEMA 1	26	FWE	22	22	M1	(3)#12+(1)#12G
BP-2	BOOSTER PUMP	480	3	(2) 3HP	--	--	30	3	15	NEMA 1	26	FWE	22	22	M1	(3)#12+(1)#12G
	WELL PUMP	208	1	2HP	--	--	30	2	20	NEMA 1	26	1	26	33	P5	(2) #12+ (1) #12 G
M-18	AUTOMATIC PARTS WASHER	480	3	--	11	--	30	3	20	NEMA 1	26	--	--	--	M1	(3)#12+(1)#12G
S-1	MOTORIZED TIRE CAROUSEL	208	3	--	20	--	30	3	20	NEMA 1	26	--	--	--	P3	(3)#12+(1)#12G
NOTES: 1 LEAD/LAG 2 PROVIDE 4" SQUARE J-BOX AND 3/4" CONDUIT FOR WIRING TO AQUASTAT. 3 WIRING AND CONNECTIONS SHALL BE SUITABLE FOR CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS. 4 PROVIDE RECEPTACLE AS INDICATED ON DRAWINGS. 5 CONNECTION AND EQUIPMENT SCHEDULED FOR THIS ITEM ARE TYPICAL FOR TWO UNITS. 6 PROVIDE AUXILIARY CONTACTS IN DISCONNECT SWITCH TO SHUT OFF POWER TO BATTERY LOWERING WHEN DISCONNECT SWITCH IS TURNED OFF. 7 CONNECT DISCONNECT SWITCH TO CONTROL RECEPTACLE IN ELEVATOR PIT.																
ABBREVIATIONS: FWE FURNISHED WITH EQUIPMENT NF NOT FUSED SWBD SWITCH-BOARD FBD FURNISHED BY DIVISION CBD CONTROL WIRING BY DIVISION FLA FULL LOAD AMPS MCA MINIMUM CURRENT AMPACITY COMB FV COMBINATION FULL VOLTAGE NON-REVERSING																

C7

ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT



A9 KEY PLAN

NOT TO SCALE



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Portland, Maine 04103
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Web: allied-eng.com

Allied Project No: 07010

Cad File: 07010E.DWG

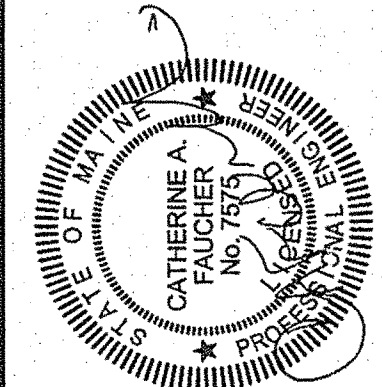
STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

DATE

FED PIN NO:

PIN NO: 16123.50



SIGNATURE

P.E. NUMBER

01 MAY, 2009

DATE

PROJECT INFORMATION

PROGRAM

PROJECT MANAGER

DESIGNER

CONSULTANT

PROJECT RESIDENT

CONTRACTOR

PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION

ACADIA GATEWAY FACILITY

BUS MAINTENANCE FACILITY

POWER AND SYSTEMS

PART PLAN ~ SECOND FLOOR

SHEET NUMBER

EP-103

OF

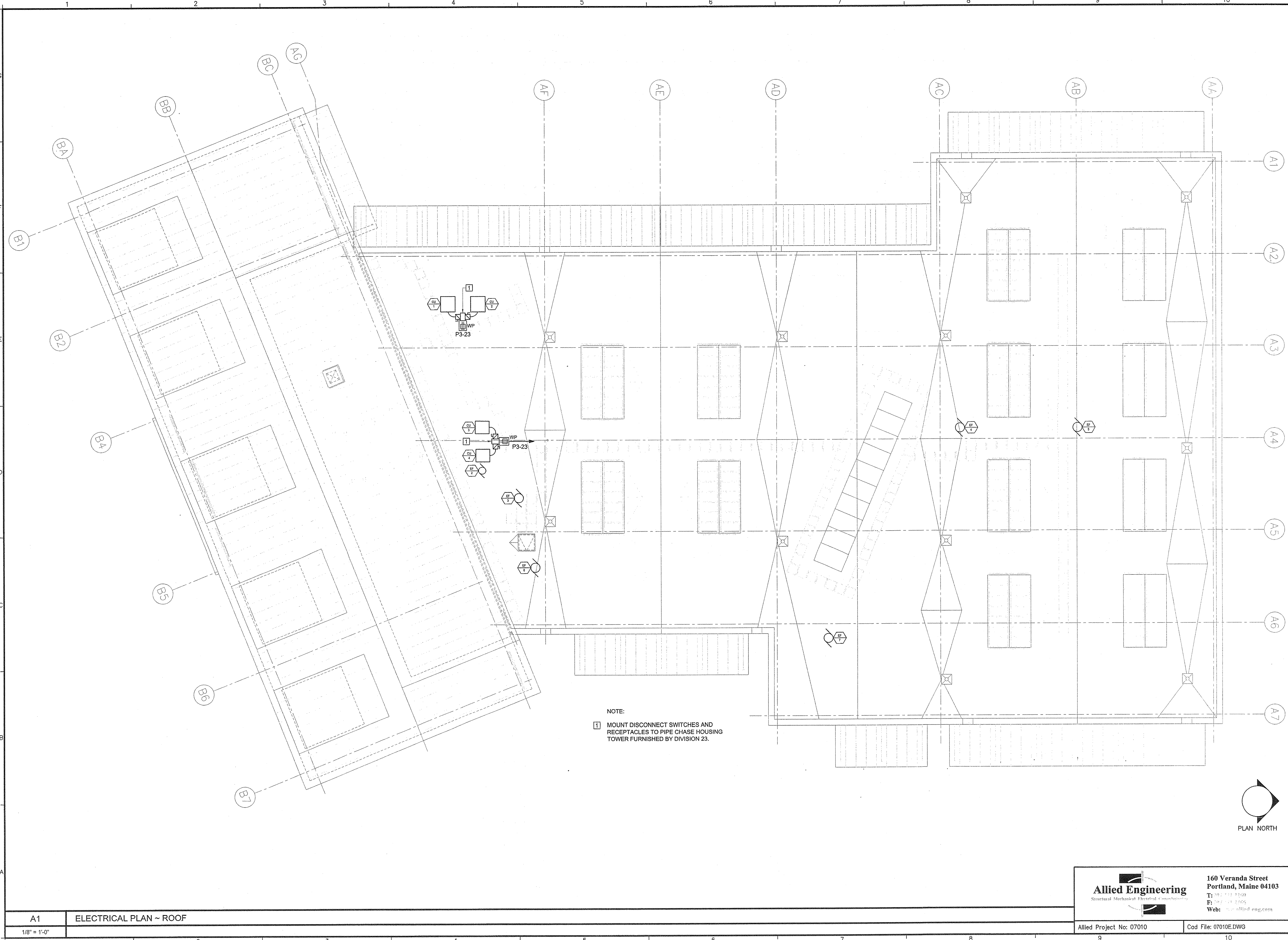
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Division: --

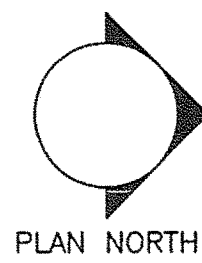
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NOTE:
1 MOUNT DISCONNECT SWITCHES AND RECEPTACLES TO PIPE CHASE HOUSING TOWER FURNISHED BY DIVISION 23.



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	
FED PIN NO:		PIN NO: 16123.50	
SIGNATURE CATHERINE A. DALY No. 7573		P.E. NUMBER 01 MAY, 2009	
PROJECT INFORMATION		DATE	
PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT
WPP	ALLIED ENGINEERING	PROJECT RESIDENT	CONTRACTOR
PROJECT COMPLETION DATE		DATE	
MAINE DEPARTMENT OF TRANSPORTATION ACADIA GATEWAY FACILITY BUS MAINTENANCE FACILITY ELECTRICAL PLAN ROOF			
SHEET NUMBER EP-104 OF			

 Allied Engineering Structural Mechanical Electrical Construction	160 Veranda Street Portland, Maine 04103 Tel: 503.591.1120 Fax: 503.591.2166 Web: www.allied-eng.com
Allied Project No: 07010	Cad File: 07010E.DWG

Username: -

Division: -

Date: -

Filename: -

PANEL SCHEDULE - MDP PROVIDE INTEGRAL TVSS									
VOLTAGE: 480/277V		MLO: 800A - 22KAIC		PROJECT: ACADIA BUS FACILITY					
CIRCUIT BREAKER		CIRCUIT LOAD (KVA)		BRANCH CIRCUIT DESCRIPTION					
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C			
3	225	3	B	16.49	16.93		PANEL M1		
5			C			22.05			
7			A	33.00	33.04		PANEL M2		
9	225	3	B			32.02			
11			C						
13			A	16.00			ELEVATOR (SHUNT TRIP)		
15	100	3	B		18.00				
17			C			18.00			
19			A	31.30			BUS WASH		
21	125	3	B		31.30				
23			C			31.30			
25			A	22.21			PANEL P3 VIA XFMR DTP3		
27	175	3	B		20.17				
29			C			14.58			
SUBTOTAL:				123.00	119.44	117.95			

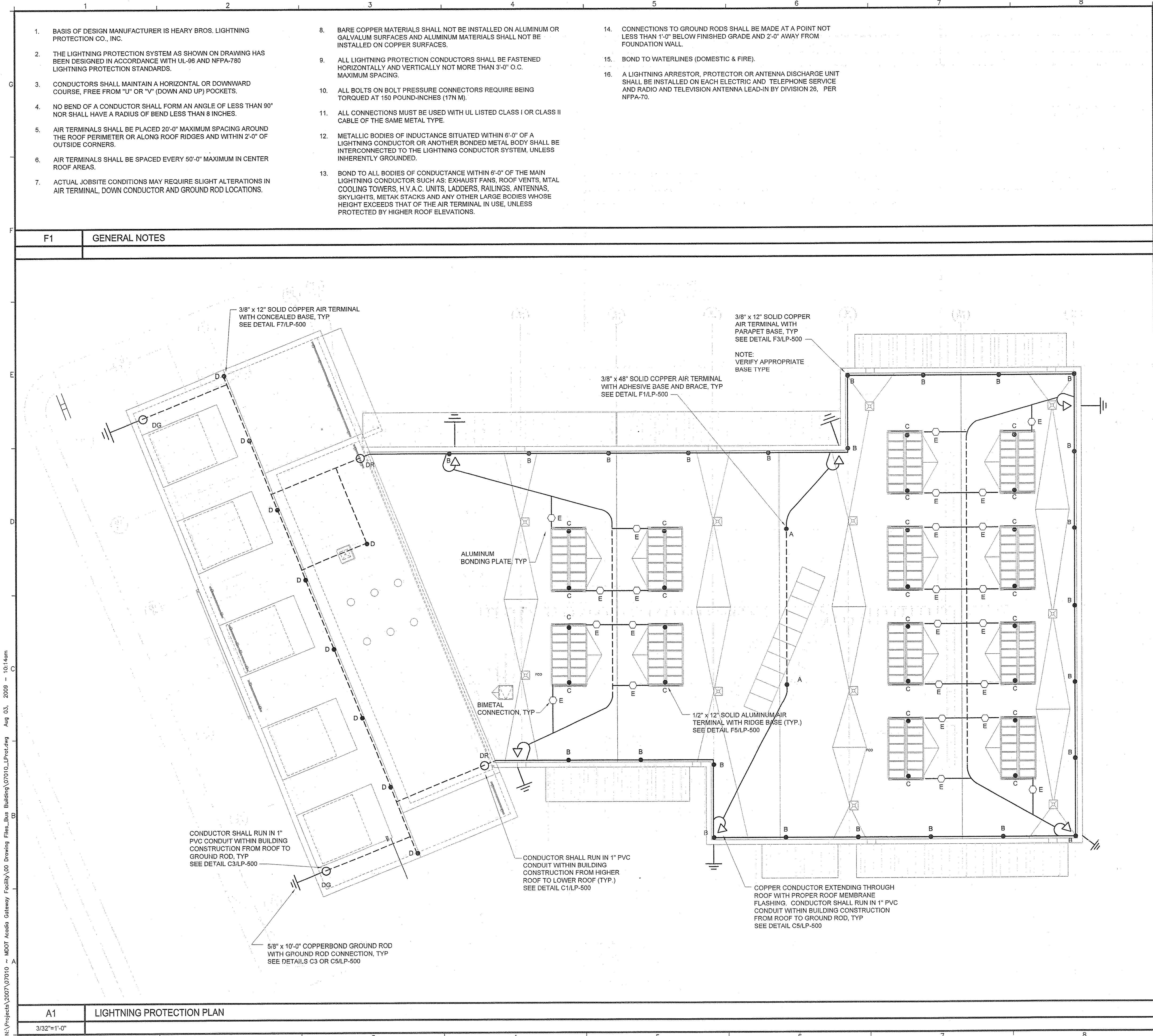
PANEL SCHEDULE - P1 PROVIDE INTEGRAL TVSS									
VOLTAGE: 208/120V		MLO: 225A		MOUNTING: SURFACE					
3 PHASE, 4 WIRE		MCB: 225A		LOCATION: MECHANICAL ROOM 121					
AIC: 10K				PROJECT: ACADIA BUS BLDG					
CIRCUIT BREAKER		CIRCUIT LOAD (KVA)		BRANCH CIRCUIT DESCRIPTION					
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C			
3	20	1	A				SPARE		
5	20	1	B		0.54		CORRIDOR AND STAIR RECEPTACLES		
7	20	1	C			1.26	RECEPTACLES DISPATCH 116		
9	20	1	A	0.90			RECEPTACLES OPS MANAGER 115		
11	20	1	B		0.18		RECEPTACLES TOILET 114		
13	20	1	C			0.18	RECEPTACLES TOILET 113		
15	20	1	A	1.20			WATER COOLER		
17	20	1	B		1.26		RECEPTACLES LOBBY 101, COOR 117		
19	20	1	C			1.26	RECEPTACLES OPT ASST 112		
21	20	1	A	0.36			RECEPTACLES LAV AND MAINT LOCKER RM		
23	20	1	B		0.72		RECEPTACLES COPY 106		
25	20	1	C			0.54	GENERAL RECEPTACLES		
27	20	1	A	1.00			SYSTEMS FURNITURE		
29	20	1	B		1.00		SYSTEMS FURNITURE		
31	20	1	C			1.00	SYSTEMS FURNITURE		
33	20	1	A	1.80			BATTERY CHARGER		
35	20	1	B		1.80		RECHARGE SYSTEM		
37	20	1	C		0.55		PUMP P-1		
39	20	3	B			0.55			
41			C			0.55			
43			A	0.55			PUMP P-2		
45	20	3	B			0.55			
47			C			0.55			
49			A	0.55			PUMP P-3		
51	20	3	B			0.55			
53			C			0.55			
55	20	1	A	0.17			EF-1		
57	15	1	B		1.50		BOILER B-1		
59	15	1	C			1.50	BOILER B-2		
61	15	1	A	1.50			BOILER B-3		
63	30	1	B		3.00		BATTERY CHARGER		
65	20	1	C			1.80	BATTERY CHARGER		
67	20	1	A	1.80			BATTERY CHARGER		
69	20	1	B		0.36		PUMP P-14		
71	20	1	C				SPARE		
SUBTOTAL:				9.58	12.01	10.99			

2	20	1	A	0.54			RECEPTACLES MECH/ELEC 118
4	20	1	B		1.00		FIRE ALARM CONTROL PANEL
6	20	1	C			1.08	RECEPTACLES MANAGERS OFFICE 110
8	20	1	A	0.72			RECEPTACLES CONF RM 109
10	20	1	B		1.26		GENERAL RECEPTACLES/UNIT HEATER
12	20	1	C			0.72	RECEPTACLES MAINT. OFFICE
14	20	1	A	1.20			CONFERENCE ROOM PROJECTOR
16	20	1	B		0.54		VAV'S JUNCTION BOX
18	20	1	C			0.90	VAV'S JUNCTION BOX
20	20	1	A	0.49			MOTORIZED SCREEN
22	20	1	B		0.45		CUH-1, CUH-3, CUH-4, UH-3
24	20	1	C				PUMPS DP-1, DP-2 (LEAD)
26			A	1.44			
28	100	3	B		1.44		PANEL "O"
30			C			1.44	
32			A	0.55			
34	20	3	B			0.55	PUMP P-4
36			C				
38			A				
40	20	3	B				PUMP P-5
42			C				
44			A	0.34			
46	20	3	B			0.34	PUMP P-6
48			C				
50	20	1	A	0.15			CONFERENCE ROOM PENDANTS
52	20	1	B		0.36		SERVER RECEPTACLES
54	20	1	C			0.36	SERVER RECEPTACLES
56	20	1	A	1.00			SECURITY PANEL
58	20	1	B		0.72		OPEN OFFICE RECEPTACLES
60	20	1	C			0.18	ELEV. PIT RECEPTACLE
62	20	1	A	0.77			DRILL PRESS
64	20	1	B		1.44		BUFFER/GRINDER
66			C				
68	20	3	A				PUMP P-7
70			B				
72	20	1	C			0.72	PUMPS DP-1, DP-2 (LAG)
SUBTOTAL:				7.20	8.10	6.29	

PANEL SCHEDULE - M1									
VOLTAGE: 277/480V		MLO: 225A		MOUNTING: SURFACE					
3 PHASE, 4 WIRE		MCB: 225A		LOCATION: MECHANICAL ROOM 121					
AIC: 22K				PROJECT: ACADIA BUS BLDG					
CIRCUIT BREAKER		CIRCUIT LOAD (KVA)		BRANCH CIRCUIT DESCRIPTION					
CKT NO	BRKR SIZE	NO OF POLES	PH	A	B	C			
1	20	1	A	1.92			LIGHTING		
3	20	1	B		0.19		STAIR LIGHTING		
5	20	1	C			3.16	GENERAL LIGHTING		
7	20	1	A	0.03			ELEVATOR PIT LIGHTING		
9	20	1	B		0.56		FUEL ISLAND LIGHTING		
11	20	1	C			3.06	EXTERIOR LIGHTING		
13	20	2	B	0.63			SITE LIGHTING		
15			C		0.63				
17	20	2	C			0.78	SITE LIGHTING		
19			A	0.78					
21	20	1	B		1.24		SITE LIGHTING		
23	20	2	C			1.24			
25	20	1	A	1.00			LIGHTING CONTROL PANEL		
27			B		3.33				
29	20	3	C			3.33	PARTS WASHER		
31			A	3.33					
33			B		0.84				
35	20	3	C			0.84	DRILL		
37			A	0.84					
39	20	1	B		0.18		BATHROOM LIGHTING		
41	20	1	C				SPARE		
SUBTOTAL:				8.53	6.97	12.41			

2			A	3.88			
4			B		3.88		
6			C			3.88	
8			A	3.88			
10	20	3	B		3.88		TRUCK LIFT
12			C			3.88	
14	20	1	A	0.32			HEAT TRACE
16	20	1	B		0.32		HEAT TRACE
18	20	1	C				SPARE
20	20	1	A				SPARE
22	20	1	B				SPARE
24	20	1	C				SPARE
26	20	1	A				SPARE
28	20	1	B				SPARE
30	20	1	C				SPARE
32			A	0.94			
34	20	3	B		0.94		BP-1 BOOSTER PUMP SET
36			C			0.94	
38			A	0.94			
40	20	3	B		0.94		BP-2 BOOSTER PUMP SET
42			C			0.94	
SUBTOTAL:				9.96	9.96	9.94	

PANEL SCHEDULE - P5									
VOLTAGE: 208/120V				MLO: 225		MOUNTING: SURFACE			
3 PHASE, 4 WIRE				MCB: 225		LOCATION: MECHANICAL ROOM 121			
AIC: 10K						PROJECT: ACADIA BUS BLDG			
CIRCUIT BREAKER				CIRCUIT LOAD (KVA)			BRANCH CIRCUIT DESCRIPTION		
CKT NO	BRKR SIZE	NO OF POLE	PH	A	B	C			
1	20	2	A	1.44			WELL PUMP		
3	20	1	B		1.44		TELEPHONE BACKBOARD RECEPT		
5	20	1	A	0.36			TELEPHONE BACKBOARD RECEPT		
9	20	1	B		0.18		SHOP BENCH RECEPT		
11	20	1	C			0.18	SHOP BENCH RECEPT		
13	20	1	A	0.18			SHOP BENCH RECEPT		
15	20	1	B		0.18		SHOP BENCH RECEPT		
17	20	1	C			0.18	MAINT BAY BENCH RECEPT		
19	20	1	A	0.18			MAINT BAY BENCH RECEPT		
21	20	1	B						
23	20	1	C						
25	20	1	A						
27	20	1	B						
29	20	1	C				SPARE		
31	20	1	A				SPARE		
33	20	1	B				SPARE		
35	20	1	C				SPARE		
37	20	1	A				SPARE		
39	20	1	B				SPARE		
41	20	1	C				SPARE		
SUBTOTAL				2.16	1.80	0.72			



7 STRANDS 14 GAUGE COPPER CONDUCTOR (SECONDARY CABLE) #CCHB-6
28 STRANDS OF 17 GAUGE COPPER CONDUCTOR (EXPOSED ON ROOF) #CCHB-28-17
28 STRANDS OF 17 GAUGE COPPER CONDUCTOR (CONCEALED WITHIN BLDG. CONSTRUCTION) #CCHB-28-17
24 STRANDS OF 18 GAUGE ALUMINUM CONDUCTOR (AT SKYLIGHTS & RTUs) #CAHB-24-14
• A 3/8" x 48" SOLID COPPER MID ROOF AIR TERMINAL WITH ADHESIVE BASE AND BRACE #CAHB-312, 250, GSHB21AB-36
• B 3/8" x 12" SOLID COPPER AIR TERMINAL WITH PARAPET BASE #CAHB-308, 320
• C 1/2" x 12" SOLID ALUMINUM AIR TERMINAL WITH RIDGE BASE #AAMB-302, 172D
• D 3/8" x 12" SOLID COPPER AIR TERMINAL WITH CONCEALED BASE #CAHB-308, 8
NOTE: ALL ADHESIVE SHALL BE PROVIDED BY THE ROOFING CONTRACTOR.
▷ COPPER CONDUCTOR EXTENDING THROUGH ROOF WITH PROPER ROOF MEMBRANE FLASHING. CONDUCTOR SHALL RUN IN 1" PVC CONDUIT WITHIN BUILDING CONSTRUCTION FROM ROOF TO GROUND ROD.
DR DOWN CONDUCTOR SHALL RUN IN 1" PVC CONDUIT WITHIN BUILDING CONSTRUCTION FROM HIGHER ROOF TO LOWER ROOF.
DG DOWN CONDUCTOR SHALL RUN IN 1" PVC CONDUIT WITHIN BUILDING CONSTRUCTION FROM ROOF TO GROUND ROD.
ALL PVC CONDUIT AND CONDUIT SLEEVES FURNISHED, INSTALLED, WEATHERPROOFED AND MAINTAINED FREE FROM OBSTRUCTIONS BY DIVISION 26.
ALL PVC CONDUIT AND SLEEVE INSTALLATION SHALL BE COORDINATED BETWEEN DIVISION 26 AND THE ROOFING CONTRACTOR.
ALL PITCH PANS OR PROPER ROOF MEMBRANE FLASHING FURNISHED, INSTALLED AND WEATHERPROOFED BY THE ROOFING CONTRACTOR.
*NOTE: *METAL FLASHING CONNECTION #CMB-44D
*METAL VENT PIPE CONNECTION #AMB-42XD
*METAL ROOF DRAIN CONNECTION #CMB-160D
SECONDARY BONDING IS REQUIRED WHEN METAL BODIES OF INDUCTANCE ARE LOCATED WITHIN 6FT. OF THE LIGHTNING PROTECTION SYSTEM OR OTHER GROUNDING BODIES.
ALUMINUM CABLE CONNECTION #AMB-44D
COPPER CABLE CONNECTION #CMB-44D
HEAVY DUTY STRAIGHT SPLICER #CRHB-26
CORROSION RESISTANT COPPER PERFECTION PIPE CLAMP (ANTENNAS, RAILINGS, ETC.) #PMHB-103XD
COPPER PRESSED CROSSOVER CONNECTION #CMB-57XXX
CORROSION RESISTANT BONDING PLATE (AT DOWNLEAD LOCATIONS) #PPHB-54D
E ALUMINUM BONDING PLATE (AT SKYLIGHTS) #APHB-54D
○ BIMETAL CONNECTION #AMB-93
FASTENERS (FASTEN CABLE EVERY 3'-0" (90mm) O.C. MAX.) #AFHB-72, #AFHB-64A/80SS, #CPHB-64C/80SS, 72
WATERLINE CONNECTION (FIRE AND DOMESTIC WATER) #CMB-87D
5/8" x 10'-0" COPPERBOND GROUND ROD WITH GROUND ROD CONNECTION #CGHB-106GR, 57D
COPPER FENCE POST GROUNDING CONDUCTOR #CCHB-28-17
CORROSION RESISTANT BONDING PLATE (AT BASE OF FENCE POST), #PPHB-58D
5/8"x10'-0" COPPERWELD GROUND ROD AND GROUND ROD CONNECTOR, #CGHB-106GR, #HB-57
COPPER SECONDARY BONDING CONDUCTOR, #CCHB-86C
CORROSION RESISTANT BONDING LUG (AT RAZOR RIBBON, SENSOR UNIT, ETC.) #CMB-160D
CABLE CONNECTOR / BONDING CONNECTOR AT WIRE MESH #CMB-44D
CORROSION RESISTANT COPPER FLEXIBLE BONDING STRAP (AT GATES) #CMB-690CR

NOTES:

1. ALL SURGE ARRESTORS, SURGE SUPP./TRANSIENT SUPPRESSORS SHALL BE PROVIDED BY DIVISION 26.

D9 LIGHTNING PROTECTION PLAN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DATE
FED PIN NO:
PIN NO: 16123.50

01 MAY, 2009

SIGNATURE
P.E. NUMBER
DATE

PROJECT INFORMATION

PROGRAM
PROJECT MANAGER
DESIGNER
CONSULTANT
PROJECT RESIDENT
CONTRACTOR

WFP
ALLIED ENGINEERING
-
-
-
-


PROJECT COMPLETION DATE

MAINE DEPARTMENT OF TRANSPORTATION
ACADIA GATEWAY FACILITY
BUS MAINTENANCE FACILITY

LIGHTNING PROTECTION PLAN

SHEET NUMBER
LP-100

OF

**Allied Engineering**
Standard Mechanical Electrical Construction Inc.

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Cad File: 07010LP.DWG

