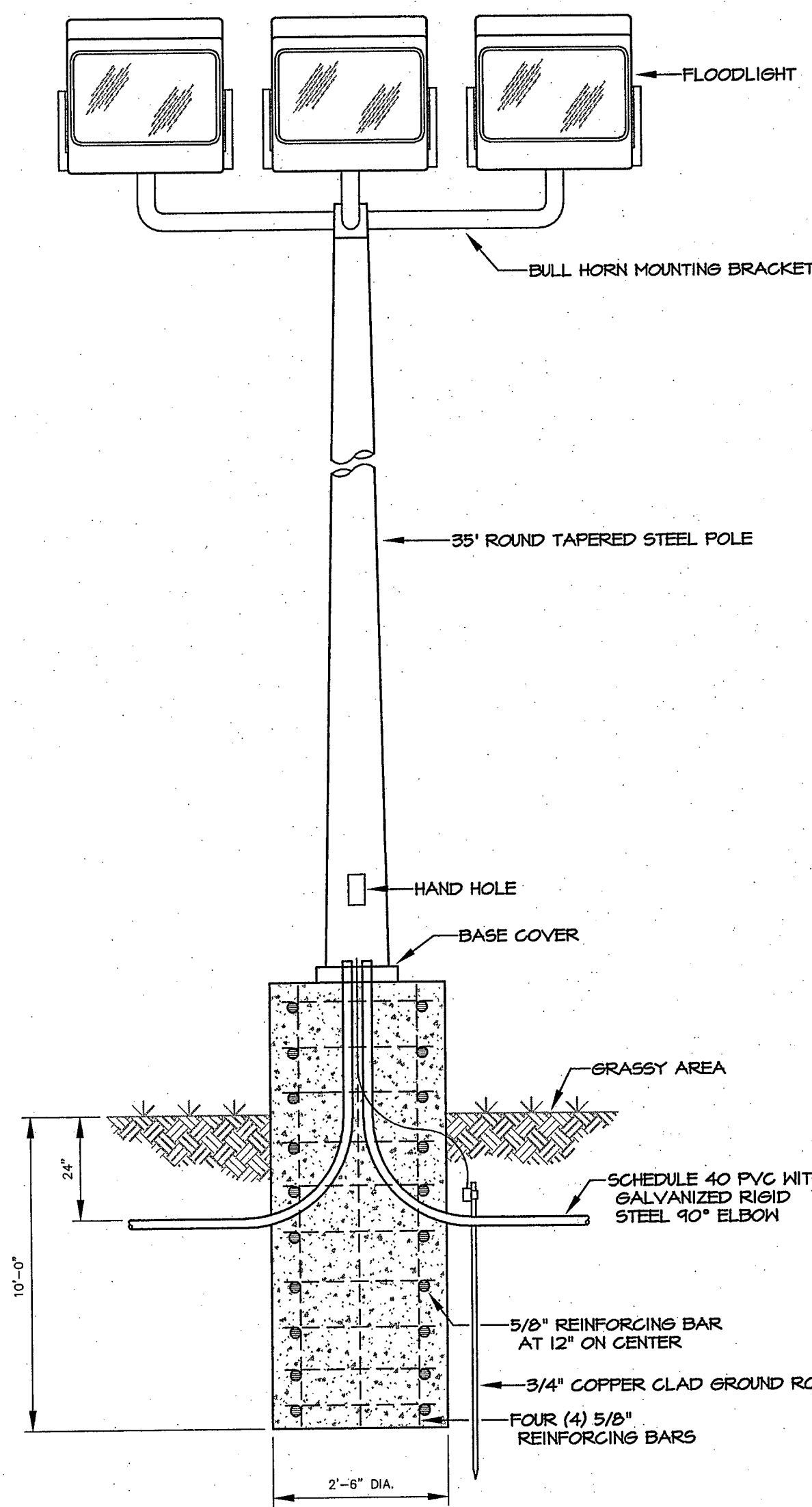


1 SECURITY SYSTEM RISER DIAGRAM
NOT TO SCALE



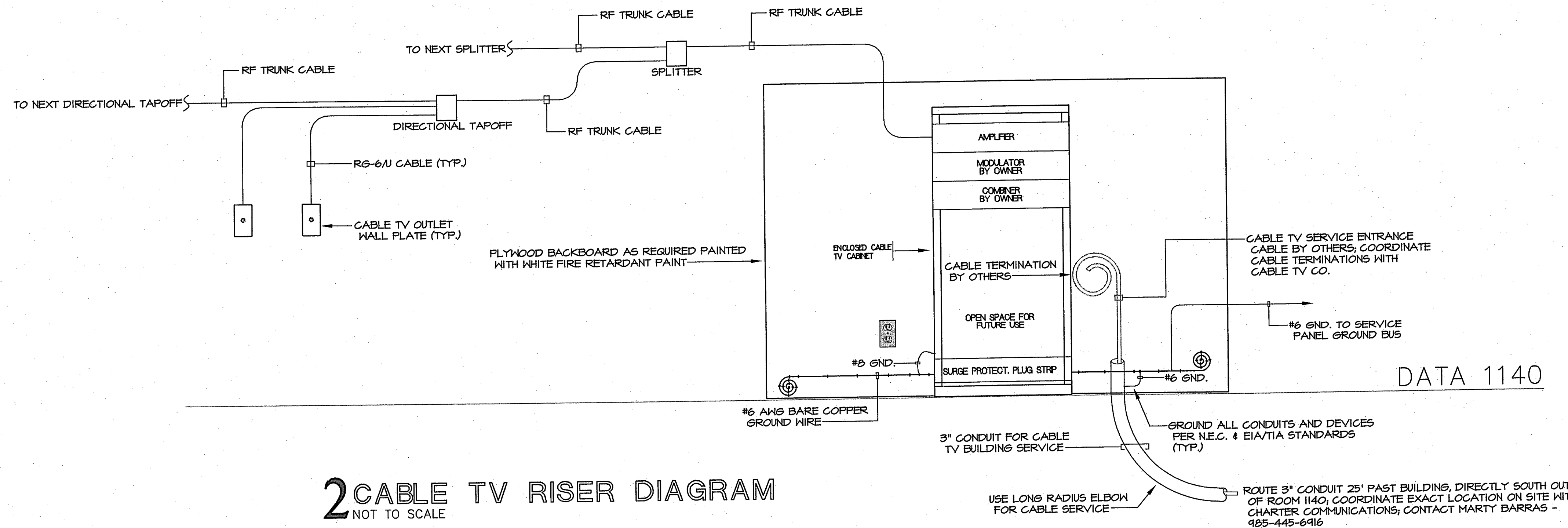
3 PARKING LOT FIXTURE/FOUNDATION DETAIL-TYPE "E"
NOT TO SCALE

LOAD SUMMARY- ENTIRE BUILDING

ITEM	CONNECTED LOAD (VOLT-AMPS)	DEMAND LOAD (VOLT-AMPS)
LIGHTING	137,715 X 125% =	172,144
RECEPTACLES	409,242	
(First 10,000 Watts)	10,000 X 100% =	10,000
(Remaining Watts)	399,242 X 50% =	199,621
AIR CONDITIONING	517,455 X 100% =	517,455
HEATING	989,562 X 100% =	989,562
KITCHEN EQUIPMENT	57,944 X 65% =	37,664
WATER HEATING	10,500 X 100% =	10,500
ELEVATOR	17,451 X 100% =	17,451
MISC. (supply fans, exh.fans, ceiling fans, hand dryers, controls, kin, air curtain, basketball goals, partition fcap, gen. batt. chrgr., gen. jkt. hr.)	158,929 X 100% =	158,929
FUTURE A/C	87,759 X 100% =	87,759
FUTURE CLASSROOM WING	170,000 X 100% =	170,000
TOTAL		2,371,085 VA

LOAD SUMMARY- EMERGENCY GENERATOR

ITEM	CONNECTED LOAD (VOLT-AMPS)	DEMAND LOAD (VOLT-AMPS)
LIGHTING	39,090 X 125% =	48,863
RECEPTACLES	76,280	
(First 10,000 Watts)	10,000 X 100% =	10,000
(Remaining Watts)	66,280 X 50% =	33,140
AIR CONDITIONING	29,937 X 100% =	29,937
HEATING	57,585 X 100% =	57,585
KITCHEN EQUIPMENT	57,944 X 65% =	37,664
MISC. (supply fans, exh.fans, ceiling fans, hand dryers, controls, kin, air curtain, basketball goals, partition fcap, gen. batt. chrgr., gen. jkt. hr.)	40,200 X 100% =	40,200
TOTAL		257,389 VA



2 CABLE TV RISER DIAGRAM
NOT TO SCALE

MAIN SWITCHBOARD "MD"

TYPE: SWITCHBOARD
SERVICE: 277/480 VOLT, 3Ø, 4W
MOUNTING: FREE-STANDING
AIC: 65,000
REMARKS: GROUND BUS

MAIN: 3000 AMP 100% RATED MAIN BREAKER WITH GROUND FAULT PROTECTION

CIRCUIT NO.	AMPS	POLES	CONDUIT & WIRE SIZE	REMARKS
1	400	3	3-1/2"Ø, 4#500 MCM & 1#1/0 GND.	400 AMP ATS (PANEL "XMDH")
2	100	3	1-1/4"Ø, 4#3 THWN & 1#8 GND.	PANEL "HAI"
3	110	3	1-1/4"Ø, 3#2 THWN & 1#8 GND.	75 KVA XFMR (PANEL "LAI")
4	1000	3	FOUR(4)2-1/2"Ø, 4#250 MCM THWN & 1#2/0 GND.EACH	PANEL "MDEI"
5	300	3	3"Ø, 4#350 MCM THWN & 1#2 GND.	PANEL "HGI"
6	800	3	TWO(2)3-1/2"Ø, 4#500 MCM THWN & 1#2/0 GND.EACH	PANEL "MDEI"
7	1000	3	FOUR(4)2-1/2"Ø, 4#250 MCM THWN & 1#2/0 GND.EACH	PANEL "HM"
8	60	3		TVSS
9	40	3	3/4"Ø, 3#8 THWN & 1#8 GND.	DH-2 (20KW)
10	80	3	1"Ø, 3#8 THWN & 1#8 GND.	DH-3 (48KW)
11	125	3	1-1/2"Ø, 3#1 THWN & 1#8 GND.	DH-4 (80KW)
12	60	3	1"Ø, 3#8 THWN & 1#8 GND.	DH-5 (36KW)
13	20	3	1/2"Ø, 3#12 THWN & 1#12 GND.	DH-7 (12KW)
14,15	100	3		PROVISIONS
16,17	200	3		"
17,18	400	3		"

TYPE: DISTRIBUTION PANELBOARD
SERVICE: 277/480 VOLT, 3Ø, 4W
MOUNTING: SURFACE
AIC: 35,000
REMARKS: GROUND BUS

MAIN: 1200 AMP MLO

CIRCUIT NO.	AMPS	POLES	CONDUIT & WIRE SIZE	REMARKS
1	200	3	2"Ø, 4#3/0 THWN & 1#4 GND.	PANEL "HBI"
2	110	3	1-1/4"Ø, 3#2 THWN & 1#8 GND.	75 KVA XFMR (PANEL "LBI")
3	400	3	3-1/2"Ø, 4#500 MCM & 1#1/0 GND.	PANEL "HB2"
4	400	3	3-1/2"Ø, 4#500 MCM & 1#1/0 GND.	PANEL "HC2"
5	70	3	1"Ø, 3#6 THWN & 1#8 GND.	DH-6 (40KW)
6,7	100	3		PROVISIONS
8,9	200	3		"

TYPE: DISTRIBUTION PANELBOARD
SERVICE: 277/480 VOLT, 3Ø, 4W
MOUNTING: SURFACE
AIC: 35,000
REMARKS: GROUND BUS

MAIN: 800 AMP MLO

CIRCUIT NO.	AMPS	POLES	CONDUIT & WIRE SIZE	REMARKS
1	200	3	2"Ø, 4#3/0 THWN & 1#4 GND.	PANEL "HE1"
2	110	3	1-1/4"Ø, 3#2 THWN & 1#8 GND.	75 KVA XFMR (PANEL "LE1")
3	125	3	1-1/2"Ø, 4#1 THWN & 1#8 GND.	PANEL "HD2"
4	400	3	3-1/2"Ø, 4#500 MCM & 1#1/0 GND.	PANEL "HE2"
5,6	100	3		PROVISIONS
7,8	200	2		"

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STPSB PROJECT #0825

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PROJ. NO. **0825**
DATE **06.25.09**

PROF. OF RECORD
REVISOR
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