DISTRICT OF COLUMBIA
BOARD OF ZONING ADJUSTMENT

In re:
Friends of the Babcock-Macomb House,

Appellant,

v.

District of Columbia Department of Consumer and Regulatory Affairs,

Appellee.

BZA Appeal No. 17663

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DISTRICT OF COLUMBIA'S SUPPLEMENTAL EVIDENCE LIST

Appellee, the District of Columbia Department of Consumer and Regulatory Affairs, ("District"), by and through undersigned counsel, hereby submits its Evidence list, as requested by the Board during the October 9, 2007 hearing in BZA Appeal No. 17657. The District is submitting the attached documents to be part of the record hereof:

Documents:

1) Building Permit Application No. 96928, dated August 9, 2006, attached as Exhibit "I" (16 pages).
2) Building Permit No. 96928, dated April 10, 2007, attached as Exhibit "J"
5) Building Permit Plans, date stamped by DCRA/Office of the Zoning Administrator on March 28, 2007, attached as Exhibit "K" (175 pages)

Respectfully Submitted,

JILL STERN
General Counsel
Department of Consumer and Regulatory Affairs

BOARD OF ZONING ADJUSTMENT
District of Columbia
CASE NO. 17663
EXHIBIT NO. 21

Board of Zoning Adjustment
District of Columbia
CASE NO. 17663
EXHIBIT NO. 21A1

/s/

LORI S. PARRIS
Deputy General Counsel
Bar Number 467455

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Assistant Attorney General
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CERTIFICATE OF SERVICE

I hereby certify that on October 12, 2007 a copy of the foregoing Supplemental Evidence List and its attachments were personally served and sent first class mail to John R. Magnus at 2740 34th Place, N.W., Washington, D.C. 20007, and Allison Prince, Esq. at 2300 N Street, N.W., Washington, D.C. 20037.

Doris A. Parker-Woolridge

PRE-FILE NUMBERS		ZONING DISTRICT	FILE NUMBER	PERMIT NUMBER	
N.C.P.C. No:	O.G. No:			96928	By:
H.P.A. No:	S.L. No:	Ward No: 3	Receipt No:	Date:	Receipt No:

GOVERNMENT OF THE DISTRICT OF COLUMBIA

DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS

BUILDING AND LAND REGULATION ADMINISTRATION PERMIT SERVICE CENTER
Tel 202-442-4589 Fax 202-442-4862

105

BLRA-33
(Rev. 2/04)

APPLICATION FOR CONSTRUCTION PERMITS ON PRIVATE PROPERTY

(PRINT IN INK OR TYPE, DO NOT WRITE IN SHADED AREAS OR ON PAGE 4)

CLEARANCE TO FILE
By________ Date________

ERASING, CROSSING OUT, WHITING OUT, OR OTHERWISE ALTERING ANY ENTERED INFORMATION WILL VOID THIS APPLICATION

(A) ALL APPLICANTS MUST COMPLETE ITEMS 1 THRU 27

1. Address of Proposed Work: 3417 Mass. Ave, NW	Suite No.	2. Lot 42	3. Square 1939	4. Application Date 6/9/06

5 Owner of Building or Property SGI-USA	6 Address (*include Zip Code*) 2233 Wisconsin Ave, NW #306 Wash DC	7 Phone 202 338 1752
8 Agent for Owner: (*if applicable*) David Fontana	9. Address (*include Zip Code*) 10856 Main St Fairfax VA 22030	10. Phone 703 691-1100

11. Type of Proposed Work (check all applicable boxes)

☒ New Building
☐ Addition
☐ Alteration and Repair
☐ Raze Building
☐ Retaining Wall
☐ Fence
☐ Shed
☐ Awning
☐ Garage
☐ Sign
☐ Projection
☐ Other (*Specify*) ________

"False statements or misrepresentation of facts on a permit application and/or plans is subject to criminal penalties pursuant to DC law 22-2405."

12. Description of Proposed Work

New Building Foundation, Sub-Grade parking, and Above Grade Building per plans.

13 Existing Use(s) of Building or Property Vacant Lot	14 Ex. No of Stories of Bldg 0	15 Ex No of Dwelling Units 0	Official Use Only Miscellaneous FEE $
16 Proposed Use(s) of Building or Property Church	17 Prop No of Stories of Bldg 3	18 Prop. No of Dwelling Units 0	By: Date:

19 Starting Date ASAP	20 Completion Date of work 1 year	21 Method of Removing Construction Debris [ ] Pick-up Truck [ ] Dumpster [ ] Other (*specify*)	22 Does the proposed work involve **disturbing the earth** or razing a building? [✓] Yes, answer q. 23 [ ] No, SKIP q. 23-27

23. Is the area of disturbed earth more than 50 sq. ft? ☒ Yes, answer q. 24-25 ☐ No, SKIP q. 24-25	24. Soil Erosion Control Methods Silt Fence + hay bails	25. Area of Offsite Drainage 2355 sq. ft	26. No of Footings or Columns	27 Size of Footings or Columns

ALWAYS SIGN THE APPLICATION ON PAGE 3 (SECTION I)

Complete Section B if the pro[illegible] work is new buildin[illegible] alteratio[illegible] Page 2)
Complete Section C if the prop[illegible]d work is razing a building. (Pa[illegible]2)
Complete Section D if the prop[illegible]d work is a retaining wall. (Pa[illegible])
~~Complete Section E if the prop[illegible]d work is a fence. (Page 3)~~
Complete Section F if the prop[illegible] shed/garage. ([illegible]ge 3)
Complete Section G if the proposed work is a[illegible]ning. ([illegible]ge 3)
Complete Section H if the proposed work is a s[illegible]. (Pa[illegible]3)

5263-A

OFFICIAL USE ONLY

	R	P	H	A	
M					
P					
E					W ☐ Yes ☐ No
					PLANS
S					

EXHIBIT
I

(B) NEW BUILDING, ADDITION, & ALTERATION (COMPLETE ITEMS 28 THRU 60)

28. Architect's Name:	29. D.C. Lic. No.:	30. Architect's Address: *(include Zip Code)*	31. Phone:
32. Engineer's Name:	33. D.C. Lic. No.:	34. Engineer's Address: *(include Zip Code)*	35. Phone
36. Building Contractor's Name:	36A. D.C. Lic. No.	37. Contractor's Address	38. Phone:

39. Type of Construction ☐ Masonry ☐ Steel ☒ Wood ☐ Other ☒ Concrete	40. Fire Suppression: ☒ Fully Sprinklered ☐ Standpipe System ☐ Partially Sprinklered ☐ None ☐ Other ________	41. Booster Pump ☒ New ☐ Existing ☐ None	42. Total Lot Area 10,000 sq. ft.	43. Breakdown of Lot Area (= 100 %) a. building % b. paved area % c. greenery %

44. Present Gross Floor Area of Bldg. → sq. ft	45. Proposed Gross Floor Area of Bldg. 7000 sq. ft.	46. Floors involved in this permit ☒ All ☐ Floors ______ B1, 1, 2, 3	47. Projection beyond building line? ☐ Yes, Answer q. 48 -52 ☒ No. SKIP q. 48-52

48. Number and type of projection:	49. Distance of projection:	50. Width of projection:	51. Width of building frontage ft. 52. Signature of Owner (projection only):

53. Water or Sewer Excavation? ☒ Yes ☐ No	54. Driveway Construction? ☒ Yes ☐ No	55. Sheeting/Shoring Necessary? ☒ Yes ☐ No	56. Elevators Involved? ☒ Yes, answer q. 57 ☐ No	57. No and type of elevator	58. Plans Certified by Engineer? ☐ Yes, cert. attached ☐ No

59. Estimated Cost of Work

(a) New/Add.: $ ________

(b) Alt/ Repair $ ________

Total $6,633,284.00

60. Volume of New Bldg. or Addition 391,616 cubic ft.

OFFICIAL USE ONLY

Alter/Repair FEE		New Const. FEE		Filing Fee		TOTAL PERMIT FEE	
$		$		$		$	
By:	Date:	By:	Date:	By:	Date:	By:	Date:

(C) RAZING A BUILDING (COMPLETE ITEMS 61 THRU 83)

61. Raze Contractor's Name:	62. Contractor's Address: *(include Zip Code)*	63. Phone:

64. Insurance Company	65. Policy or Cert. Number	66. Expiration Date	67. Raze Method

68. Building Material	69. Raze Entire Building? ☐ Yes ☐ No	70. Building Condemned? ☐ Yes ☐ No	70A. Building Vacant? ☐ Yes ☐ No	71. Public Space Vault? ☐ Yes ☐ No	72. Disconnect Water and/or Sewer? ☐ Yes ☐ No	73. Size of Water Connection in.
74. Plumber's Name:	75. D.C. Lic. No.	76. Length ft.	77. Width ft.	78. Height ft.	79. Volume ft.	80. Party Wall? ☐ Yes ☐ No

81. Asbestos in the Building? ☐ No ☐ Yes, location ______	82. Raze Contractor Signature 83. Owner's Signature

OFFICIAL USE ONLY

FEE	By:	Date:
$		

(D) RETAINING WALL (COMPLETE ITEMS 84 THRU 93)

The retaining wall will not obstruct any accessible parking required by D.C. Zoning Regulations.

84. Cost of Work $	85. Material:	86. Height	87. Color	88. Location: ☐ Entirely on Owner's Land ☐ Party Line with Adjacent Neighboring Land *

* If party wall, the owner of the adjoining property must agree to the erection of the retaining wall and this application

89. Signature of Adjoining Owner:	90: Phone: Home Work	
91. Address of Adjoining Owner:	92. Lot:	93. Square:

OFFICIAL USE ONLY

FEE	By:	Date:
$		

(E) FENCE (COMPLETE ITEMS 94 THRU 102) The fence will not obstruct any accessible parking required by D.C. Zoning Regulations

94. Material and type:	95. Height ft.	96. Color:	97. Location: ☐ Entirely on Owner's Land ☐ Party Line with Adjacent Neighboring Land *

* If party fence, the owner of the adjoining property must agree to the erection of the fence and this application

98. Signature of Adjoining Owner:	99. Phone: Work Home		**OFFICIAL USE ONLY** FEE $
100. Address of Adjoining Owner:	101. Lot	102. Square	By: Date:

(F) SHED OR GARAGE (COMPLETE ITEMS 103 THRU 113)

103. Number	104. Length: ft.	105. Width ft.	106. Area: sq.ft	107. Height ft.	108. Volume cu.ft	109. Est. Cost of Work $	**OFFICIAL USE ONLY** FEE $
110. Material of Roof	111. Material of Sides	112. Wall Thickness: ☐ External ( ) inches ☐ Party ( ) inches				113. Color	By: Date:

(G) AWNING (COMPLETE ITEMS 114 THRU 123)

114. Number:	115. Color	116. Type: ☐ Folding ☐ Fixed	117. Projections: Beyond bldg. line __________ in. Beyond pt of attachm __________ in	118. Height of Lowest Part of awning (a)______ ft above sidewalk (b)______ ft above parking (c)______ ft above grade	**OFFICIAL USE ONLY** FEE $
119. Material of Frame	120. Material of Covering	121. Lettering on awning? ☐ Yes ☐ No	122. Fixed Posts? ☐ Yes ☐ No	123. Over Side-walk café? ☐ Yes ☐ No	By: Date:

(H) SIGN (COMPLETE ITEMS 124 THRU 144)

124. Number	125. Electric Signs? ☐ Yes, answer q. 126-132 ☐ No. SKIP q. 126-132	126. Type: ☐ Incandes. ☐ Flouresc. ☐ Neon	127. Power _______VA	128. Electrical Contractor License Number:

129. Address of Electrical Contractor (*include Zip*)	130. Signature of Licensed Electrician	131. Phone No.	132. License No.

133. Height relative to building and ground

(a) _________ft_______in above sidewalk
(b) _________ft_______in above roof
(c) _________ft_______in is building height
(d) _________ft_______in above projection of window
(e) _________ft_______in from roof to sign's bottom

134. Material of Sign		135. Type of Sign	136. Color
137. Width ft.	138. Length ft.	139. Area of Sign sq. ft	140. Wide of Business frontage ft.

141. C of O No for Bldg.	142. Sign Contractor: License No.	
143. Sign Contractor's Address:		144. Phone:

OFFICIAL USE ONLY

Sign FEE		Elect. FEE		Total FEE	
$		$		$	
By:	Date:	By:	Date:	By:	Date:

(I) APPLICANT'S SIGNATURE

A. OWNER: I hereby certify that I am the owner of the property, that the application and plans are complete and correct to the best of my knowledge, that if a permit (or permits) is issued, the construction will conform to the D.C. Construction Codes, the Zoning Regulations, and other applicable laws and regulations of the District of Columbia.

Signature of Owner ______________________ Address ______________________ Date __________

B. AGENT: I hereby certify that I have the authority of the owner to make this application. I declare that the application and plans are complete and correct to the best of my knowledge. The owner has assured me that if a permit (or permits) is issued, the construction will conform to the D.C. Construction Codes, the Zoning Regulations, and other applicable laws and regulations of the District of Columbia

Signature of Agent ______________________ Address 10856 Main St. Fairfax VA 22030 Date 8/10/06

(J) APPROVALS (DO NOT WRITE ON THIS PAGE; OFFICIAL USE ONLY)

A. PERMIT CONTROL

☐ 1. Fine Arts by: ________ Date: ________
☐ 2. Historic by: ________ Date: 8/14/2005
☐ 3. Cap. Gateway by: ________ Date: ________
☐ 4. NCPC: ________ Date: ________
☐ 5. W.H./Obs. Precinct by: ________ Date: ________
☐ 6. Flood Control by: ________ Date: ________
☐ 7. WMATA by: ________ Date: ________
☐ 8. Condem. by: ________ Date: ________
☐ 9. Rental Accom. by: ________ Date: ________
☐ 10. Chinatown Distr. by: ________ Date: ________
☐ 11. Utility Clearance by: ________ Date: ________
☐ 12. General Liability Ins. Policy Clearance by: ________ Date: ________

B. CLEARANCE TO FILE PLANS

☐ 1. Zoning by: ________ Date: ________

☐ 2. DDOT – Permit and Records Division
Access to Parking Street ☐ Street ☐ Alley
Cleared by: ________ Date: ________

☐ 3. DDOT – Consumer Engineer
Cleared by: ________ Date: ________

☐ 4. ERA – Erosion Control
Cleared by: ________ Date: ________

Restrictions of the Permit:

TO REPORT WASTE, FRAUD, OR ABUSE BY ANY D.C. GOVERNMENT OFFICIAL, CALL THE D.C. INSPECTOR GENERAL AT 1-800-521-1639

C. PLANS AND APPLICATION APPROVAL

☐ 1. Information Counter by: M.B. Date: 8-10-06
☐ 2. Information Center by: ________ Date: ________
☐ ☐ (a) ABRA by: ________ Date: ________
☐ (b) Noise Control by: ________ Date: ________
☐ (c) Industrial Safety by: ________ Date: ________
☐ (d) Vector Control by: ________ Date: ________
☐ (e) D.C. Animal by: ________ Date: ________
☐ (f) Police Dept. by: ________ Date: ________
☑ 3. Zoning by: ________ Date: ________
Zoning Update by: ________ Date: ________
Zoning Overlay approval by: ________ Date: ________
☑ 4. DDOT – Permit and Records Division/Deposit #
Sidewalk Deposit $ ________ Driveway Deposit $ ________
by ________ Date ________
☐ 5. Water/Sewer Design Branch
Consumer Eng. by: ________ Date ________
☑ 6. Environmental Regulation Administration
☐ Environmental Policy Review
Control No. ________
by ________ Date ________
☐ Erosion Control by: ________ Date ________
☐ Storm Water Mgmt. by: ________ Date ________
Plan No ________
☐ Air Quality by: ________ Date ________
☑ Underground Storage by: ________ Date ________
☑ 7. Mechanical Eng. Review by: ________ Date ________
☑ 8. Plumbing Eng. Review by ________ Date ________
☑ 9. Electrical Eng. Review by: ________ Date ________
☐ 10. Health Plan Review
☐ (a) Food Plan Review by: ________ Date ________
☐ (b) Medical X-Ray Plan Rev. by: ________ Date ________
☑ 11. Fire Protection Plan Review by: ________ Date ________
☐ 12. D.C. Fire Dept. (Fire Prevention Plan Review Section) by: ________ Date ________
☐ 13. Elevator Plan Rev. Sec. by: ________ Date ________
☐ 14. Plumbing Insp Rev. by: ________ Date ________
☐ 15. Construction Insp. Branch (Field Check) by: ________ Date ________
☐ 16. Historic Pres. Div. by: ________ Date ________
☑ 17 EISF: ________ Date ________
☑ 18. Structural Eng. by: ________ Date ________
☐ 19. Permit and Certificate Issuance Counter by: ________ Date ________

☐ 20. QC By: ________ Date ________

ZONING

C of O Number ________ Date ________
Existing Use(s) VACANT
Proposed Use ________

☑ New Bldg
☑ P.O.D.
☐ File in room 2124

Job No. 5263 A.
BZA Case No
PUD Order No.

DDOT – PUBLIC SPACE

Street Name: ________
Street Width: ________
Road Width: ________
Sidewalk Width: ________
Parking: ________
Restrictions:

BLRA 33C

CONTRACT AGREEMENT

Name of Contractor/[✓ Owner] SGI-USA **Contractor's License No.**

Address of Contractor/ Owner 2233 Wisconsin Ave, NW #306 Wash, DC 20007 **Date:** 3/7/06

ADDRESS OF PROPOSED WORK 3417 Mass Ave, NW	LOT: 42 SQUARE: 1939
OWNER OF BUILDING OR BUSINESS: SGI-USA	PHONE No: 202 338-1750

DESCRIPTION OF PROPOSED WORK:
New Building per plans

COST ESTIMATE

CONSTRUCTION e.g drywall, ceilings, framing, carpentry etc	$ 5,766,006.00	
ELECTRICAL	$ 509,398.00	
MECHANICAL	$ 212,630.00	
PLUMBING	$ 60,000.00	
FIRE PROTECTION e.g sprinkler system, fire alarm system, generator etc.	$ 85,250.00	
DEMOLITION	$ —	
MISC/OTHER (please specify)	$	
TOTAL	$ 6,633,284	

The labor and material costs of counter tops, kitchen cabinets, floor coverings, tile work, caulking, patching and plaster repair, painting other than fire retardant paint, gutters and downspouts, not more than 160 square feet of gypsum board shall not be included in the cost estimate for permitting purposes. The entire list can be seen in the 1999 D.C Building Supplement Chapter 1 Section 107.3.

The foregoing terms, specifications and conditions are satisfactory and hereby agreed to. You are authorized to work as specified and payment will be made in the amount as outlined. Upon signing this agreement, the owner represents and warrants that he or she is the owner or the authorized agent of the owner of the aforesaid premises and that he or she has read this agreement.

CONTRACTOR ______________________ Date: ____________
Signature & print

OWNER OF BUILDING/BUSINESS ______________________ Date: 3/7/06
Signature & print

Upon signing this document, the owner and contractor declare that the cost of construction as specified above for the referenced project is true and correct to the best of their knowledge

Please fill out this agreement form in accordance with D.C Construction Code Supplement 1999, Chapter 1 Section 112.1.

DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH ADMINISTRATION
LEAD HAZARD CONTROL PERMIT QUESTIONNAIRE AND EXEMPTION FORM

Project Address: 3417 Mass Ave, NW

Name of Owner(s): SGI-USA **Name of Contractor:** Structure Tone

Phone Number: 202 338-1750 **Square #:** 1939 **Lot #:** 42 **Ward #:**

Project Start Date: ASAP **Project End Date:** 6 months

Building Type: **Commercial -**
Office ☐
Mixed Use (Explain) ______
Residential -
Multi-family ☐
Single-Family ☐
Elderly or handicapped ☐

Government -
Federal ☐
District ☐
Institutional -
Hospital ☐
Museum ☐
School/Child Development ☐
& Church ☒

1. Is the project planned in response to a child being identified as lead poisoned? YES ☐ NO ☑

2. Is the project designed to eliminate or reduce lead-based paint hazards in a pre-1978 building or structure? YES ☐ NO ☐

If you answer "YES", contact the Lead Division at 51 N Street, N.E., 3rd Floor (202) 535-2637 for a lead-based paint control permit application and notification form, unless an exemption listed below applies. If you answer "NO", a permit is not required, but you are required to answer the following questions:

1. Is the project disturbing deteriorated lead based paint on surfaces totaling more than 2 square feet per room, or 20 square feet on exterior surfaces, or 10% of a building component with a small surface (such as a small painted window frame) involving the following:			
A. Removal and replacement of lead-based paint components, e.g. windows, doors and baseboards?		✓	
B. Onsite stripping and removal of lead-based paint?		✓	
C. Partial demolition or gutting of building?		✓	
2. Does the project involve the removal and covering of lead-contaminated soil?		✓	

EXEMPTIONS

Please indicate the applicable exemption from the following list:

- ☑ Individuals who perform lead-based paint activities at residences which they own, unless the residence is occupied by a person or persons other than the owner or the owner's immediate family; unless any child under the age of 8 years resides, is expected to reside in, or regularly visits such housing.
- ☐ Housing for the elderly or persons with disabilities; unless any child under the age of 8 years resides, is expected to reside in, or regularly visits such housing.
- ☐ Any (0)-bedroom unit, such as an efficiency apartment.

AFFIDAVIT

I declare that the information provided is accurate, true and complete to the best of my knowledge and belief, and/or I have the authority to represent the owner of the property to answer this application and sign on behalf of the company and/or persons listed as owners. I understand that if such information contained in this application is false, I am subject to the penalty provisions of D.C. Law 11-221. Any fraud or misrepresentation on an application shall be grounds for automatic rejection and/or civil administrative penalties. I understand that failure to provide full disclosure of any of the requested or required information may result in rejection of this application for approval.

SIGNATURE

3/7/06
DATE

David Tarfiver
PRINT NAME

[redacted]

DEPARTMENT OF CONSUMER & REGULATORY AFFAIRS
Building and Land Regulation Administration

ENVIRONMENTAL INTAKE FORM

Project Name: Buddhist Culture Center - Church	**Project Address:** 3417 Mass Ave, NW	**Lot:** 42	**Square:** 1939
Filed Job Application # (if applicable):	**Project Description:** New Building		

Owner: SGEUSA **Date:** 3/7/06

Owner's address and phone #: 2233 Wisconsin Ave NW #306 wash, DC 20007

Authorized agent: David Fontana McKeever Services

Address and Phone # of authorized agent: 10856 Main St Fairfax VA 22152 703 691-1100

Scope of the Project	Yes	No	Instructions
1. Is this a solid waste facility?			If yes, see EIS Coordinator
2. Does the owner of this site own adjacent or abutting property?		X	If yes, submit a site plan to EIS Coordinator, DCRA. If no plan exists, submit written explanation to EIS Coordinator, DCRA.
3. Does the owner of this site plan to acquire property that is adjacent to or abutting this site within the next three years?		X	If yes, submit a site plan to EIS Coordinator, DCRA. If no plan exists, submit written explanation to EIS Coordinator, DCRA.
4. Is additional activity planned by the applicant for this site or any site within the same square during the next three years that requires a permit?		X	If yes, submit a site plan to EIS Coordinator, DCRA. If no plan exists, submit written explanation to EIS Coordinator, DCRA.
5. Is this a residential project within the R-1 through R-5-A zoning districts?		X	If yes, skip to signature line.
6. Is this project a single-family residence that is not in conjunction with the building of two or more units?		X	If yes, skip to signature line.
7. Is this project an accessory structure such as a garage, patio, swimming pool or fence?		X	If yes, skip to signature line.
8. Is the project solely an interior renovation with no change in the use or capacity of the structure being renovated?		X	If yes, skip to signature line.
9. Is the project located in an Economic Development Zone, as defined in DC Code 5-1401 et seq (DC Law 7-177)?		X	If yes, skip to signature line.
10. Is the project located within the Central Employment Area as defined in DC Zoning Regulations? (Title 11DCMR)		X	If yes, skip to signature line.
11. Does the project involve only the operation, repair, maintenance, or minor alteration of public structures, facilities, mechanical equipment, or topographical features and involve negligible or no expansion of use beyond that previously existing?		X	If yes, skip to signature line.
12. Has an Environmental Impact Statement (EIS) been prepared pursuant to the National Environmental Policy Act of 1969 (NEPA), or a determination made that no EIS is needed, or has the functional equivalent of an EIS been prepared?		X	If yes, submit documentation to EIS Coordinator, DCRA.

-OVER-

GOVERNMENT OF THE DISTRICT OF COLUMBIA
BLRA-10 (Rev. 8/89) /89)

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS
BUILDING AND LAND REGULATION ADMINISTRATION
TECHNICAL REVIEW BRANCH

PLAN CORRECTION LIST

Job No. 5263-A

Engineer Godwin Ukwuani	Section MP	Date 9-14-06

CHANGES REQUIRED ON PLANS PRIOR TO APPROVAL:

No.

1. Provide CO (carbon monoxide) sensors in the garage area per IMC 2000 section 502.12; 404.
2. Garage exhaust shall comply with IMC and DCMR, Chapter 4E. Verify compliance in plan.
3. Review airflow riser diagram on stack RF to AHU-1, the 30x16 sizing.
4. Review storm water sewer pipes layout on dwg P.2-00 for inconsistency. Indicate pitch on pipe layout
5. Cleanout fixtures for storm and sanitary shall be per IPC 2000 section 708.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
BLRA-10 (Rev. 8/89) /89)

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS
BUILDING AND LAND REGULATION ADMINISTRATION
TECHNICAL REVIEW BRANCH

PLAN CORRECTION LIST

Job No. 5263 A

Engineer S. A. LESTER

Section FIRE PROTECTION / ELEVATOR

Date 10/30/06

CHANGES REQUIRED ON PLANS PRIOR TO APPROVAL:

No.	
*	SHOW FIRE HYDRANT LOCATION(S)
*	SHOW LOCATION OF FIRE DEPT. CONNECTION
*	FOUNTAIN PLANS NOT STAMPED AND SIGNED
*	THE MAIN STAIR IS OPEN AT LEVELS 1 & 2, STAIRS MUST BE ENCLOSED
*	IF LARGE SANCTUARY IS LOCKED HOW IS 2ND STAIR ACCESSED. TWO UNRESTRICTED MEANS OF EGRESS IS REQUIRED
*	INDICATE WHICH SHEET PROVIDES ELEVATOR SHAFT ~~DETAIL~~ ENCLOSURE ELEVATION DETAILS
*	WHAT IS THE ELEVATOR TYPE?
M-2	ELEV. M/C ROOM MUST BE 2HR RATED : ALL DUCT PENETRATIONS MUST BE PROTECTED WITH FIRE DAMPERS. HOW IS COOLING PROVIDED TO ENABLE TEMP WITHIN ~~A~~ THE RANGE ESTABLISHED FOR THE EQPT.
*	PROVIDE MECH PLANS FOR MEZZ. LEVEL
E-4-00M	ADD FIRE ALARM PULL TO STAIR ENTRANCE AT MEZZ VESTIBULE AREA
E-4-02	SHOW F.A. STATION (PULL + A/V) AT ENTRANCE TO STAIR FROM LARGE SANCT. REVISE F.A. SYSTEM AS REQUIRED BY CHANGES TO FLOOR PLAN. REVISE F.A. RISER ACCORDINGLY.
*	IF ELEV. IS HYDRAULIC PLUMBING PLANS DOES NOT ACCOUNT FOR SPILLED

0-0086 wd-205

Government of the District of Columbia
Department of Consumer and Regulatory Affairs
Licensing and Permitting
941 North Capitol Street N.E 2nd Floor
Washington D.C 2002

BLRA 10

Review Plan Correction List	Job No: 5263 A

Reviewer: Dennis Anibaba	Section: Structural	Date: 12/18/06

*** Changes Required on Plans Prior to Approval:**

No.

1. Public space shall review and grant approval for works in public space. Projection to be filled out for the pavers in the public right of way.
2. There is a section cut on sheet A2.00M referring to a sheet A8.20; correct callout as needed or provide sheet.
3. Provide structural certification letter for the proposed building.
4. Provide a copy of the geotechnical soil report verifying the design allowable soil bearing for the staff to review.
5. Ensure the main wind force resisting systems are designed for the minimum wind load per the requirements of DCMR 12.
6. Provide width of elevator door opening on the plan.

SUBDIVISION
SQUARE 1939

The undersigned certify that they are owners in fee simple of the property to be subdivided and are in peaceful occupation thereof; that there are no pending suits or actions that affect title to the property; that parties to any deeds of trust have hereon indicated their assent; and that there are no interests or claims affecting title to the property other than such deeds of trust. The undersigned hereby subdivides Lot 40, Square 1939 (Book 180 Page 43) into two Lots and requests that this subdivision be recorded in the Office of the Surveyor of the District of Columbia.

WITNESSES

OWNERS

EMBASSY OF THE REPUBLIC
OF CAPE VERDE

JOSE BRITO, AMBASSADOR

bscribed and sworn before me this 22nd day of January 2004

Notary Public

My Commission Expires Feb. 03 2007

ACHILLE EKEU
Notary Public of the
state of MARYLAND

NUMBER OF TRUSTS: 0

ASSENT BY TRUSTEES:

OFFICE OF TAX AND REVENUE

2/3/ , 2004

I certify that the following statements relating to this subdivision are correct.

1 Ownership agrees with our records: 2/3/04 RS
2 Real estate taxes are paid to: Exempt RS
3 There are no unpaid assessments: 2/3/04 RS

Chief Assessor, Assessment Division

I acknowledge for the owners that this is not a tax certificate as intended by D.C. Code Section 47-405.

DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS

3-1- , 2004

I certify that this subdivision complies with all applicable provisions of DCMR11, Zoning Regulation of the District of Columbia.

Zoning District: "R-1-B"

Zoning Administrator

2-4 , 2004

HISTORIC PRESERVATION

OFFICE OF THE SURVEYOR

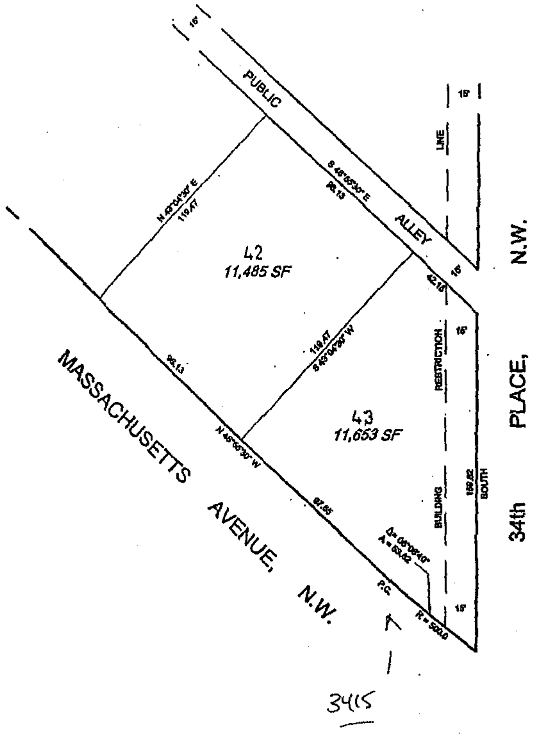
March 31, 2004

I certify that this plat is correct and is hereby recorded.

Surveyor, D.C.

SURVEYOR'S OFFICE, D.C.

Made for: EMBASSY OF CAPE VERDE
Drawn by: L.B.S. Checked by: ES HD
Record and computations by: S. MYERS
Recorded at: 1:55pm MARCH 31, 2004
Recorded in Book 198 Page 26 S.O. 03194



DISTRICT OF COLUMBIA GOVERNMENT
OFFICE OF THE SURVEYOR

Washington, D.C., June 12, 2006

Plat for Building Permit of SQUARE 1939 LOT 42

Scale: 1 inch = 30 feet Recorded in Book 198 Page 26

Receipt No. 00858

Furnished to: DAVID FONTANA

Surveyor, D.C.

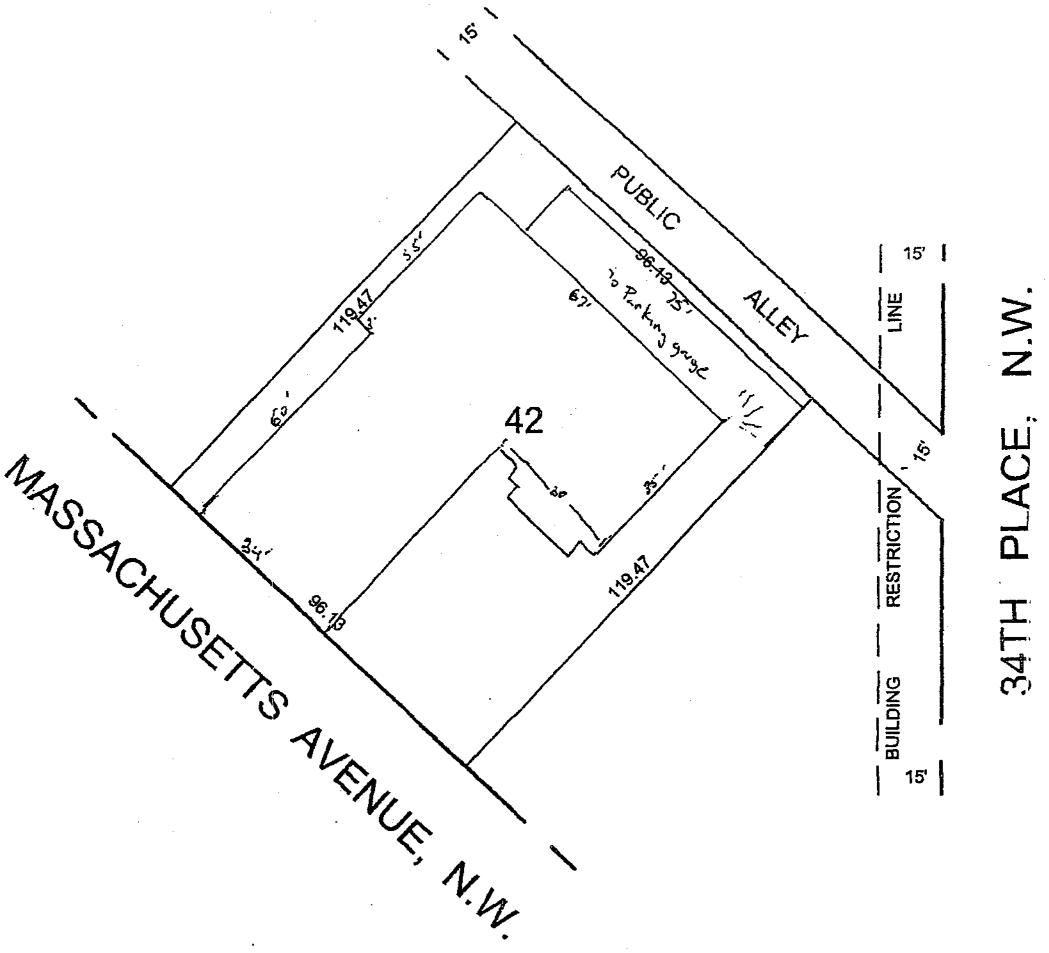
By: L.M.A.

I hereby certify that all existing improvements shown hereon, are completely dimensioned, *and are correctly platted; that all proposed buildings or construction, or parts thereof, including* covered porches, are correctly dimensioned and platted and agree with plans accompanying the application; that the foundation plans as shown hereon is drawn, and dimensioned accurately to the same scale as the property lines shown on this plat;and that by reason of the proposed improvements to be erected as shown hereon the size of any adjoining lot or premises is not decreased to an area less than is required by the Zoning Regulations for light and ventilation; and it is further certified and agreed that accessible parking area where required by the Zoning Regulations will be reserved in accordance with the Zoning Regulations, and that this area has been correctly drawn and dimensioned hereon. It is further agreed that the elevation of the accessible parking area with respect to the Highway Department approved *curb and alley grade will not result in a rate of grade along centerline* of driveway at any point on private property in excess of 20% for single-family dwellings or flats, or in excess of 12% at any point for other buildings. (The policy of the Highway Department *permits a maximum driveway grade of 12% across the public parking and the private restricted property.)*

Date: 6/15/06

(Signature of owner or his authorized agent)

NOTE: Data shown for Assessment and Taxation Lots or Parcels are in accordance with the records of the Department of Finance and Revenue, Assessment Administration, and do not necessarily agree with deed description.



DISTRICT OF COLUMBIA GOVERNMENT
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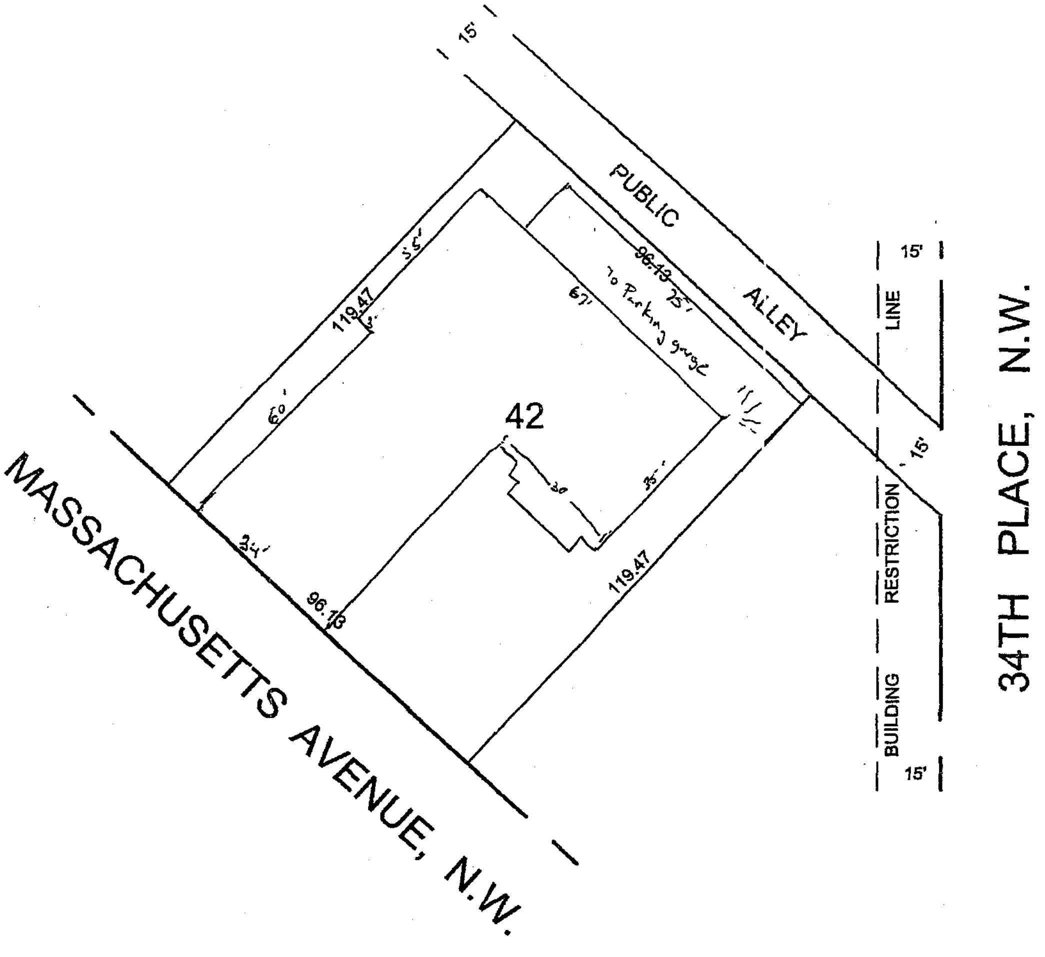

SO-00858(2006)

DISTRICT OF COLUMBIA GOVERNMENT
OFFICE OF THE SURVEYOR

Washington, D.C., June 12, 2006

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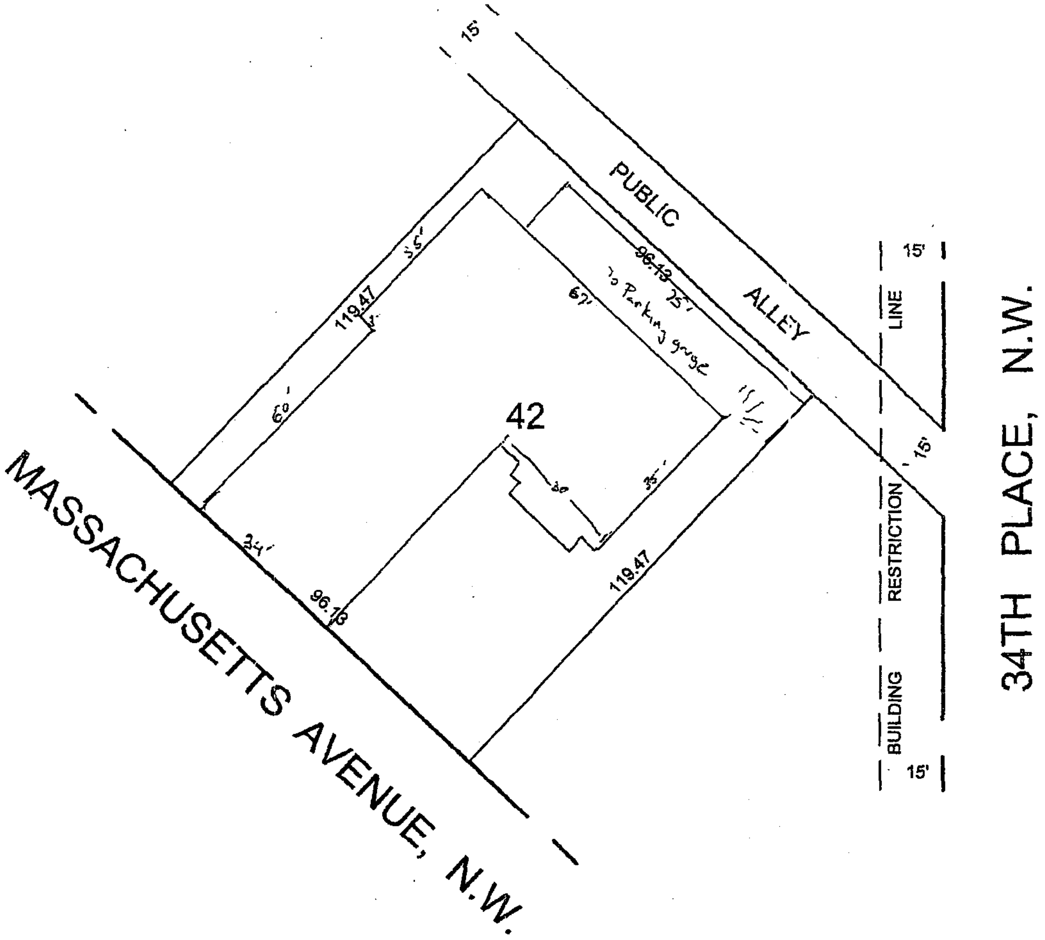

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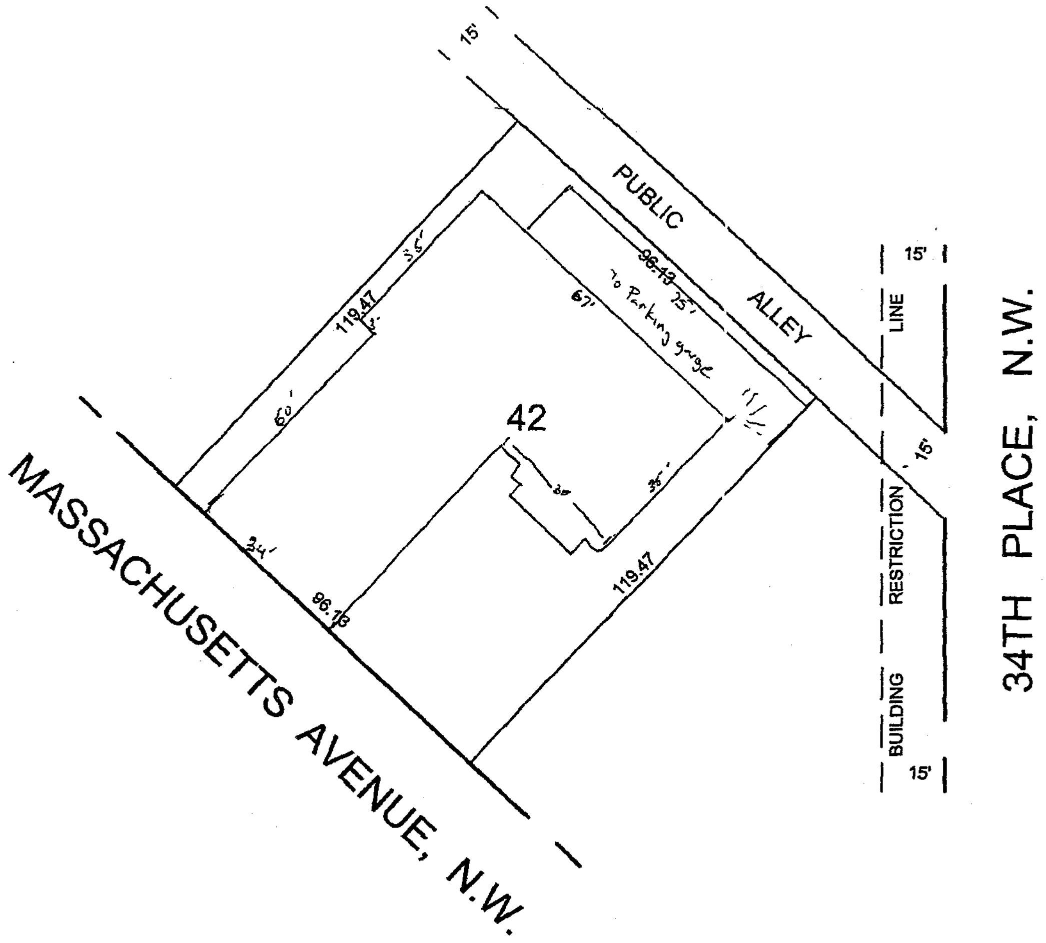


D.C. TREASURER

Department of Consumer and Regulatory Affairs

Building and Land Regulation Administration - Permit Service Center

June 21, 2006

271967

Building Permit Application Filing Fee Receipt

Engineering Coordinator: William Schoon

Project identification

Tracking Number:

XXXX A 6

Project Location:

3417 MASSACHUSETTS AVE NW

Special requirements

☐ Historic ☐ Other:

☐ Fine Arts

☐ BZA

Payment

Make payment to D.C. Treasurer

Filing Fee: $2,000.00

Filing fee paid: ☒ ______________

Amount paid: $2,000.00

Applicant/Agent

DAVID FONTANA 703-691-1100

Credit BLRA Account # 3012

DCRA strives to complete building permit application reviews in 30 days or less. You can find the status of your application using the property address or tracking number at the DCRA Website:

www.dcra.dc.gov/services/permits/idjob.asp

Your tracking number is: XXXX A 6

Approved applications not retreived and paid for within 120 days of customer notification will be cancelled, after which the customer must re-apply for a building permit.

941 North Capitol Street, N.E., Room 2300, Washington, DC 20002 (202) 442-4547 Fax (202) 442-4867

COPY

Department of Consumer and Regulatory Affairs

Permit Center

941 North Capitol St. NE Room 2100
Washington DC 20002

Tel:(202) 442-4589

B

Building Permit

THIS PERMIT IS VALID ONLY FOR THE PREMISES OF THE PROJECT ADDRESS

PERMIT NO. 96928 **DATE:** 4/10/2007

ADDRESS OF PROJECT: 3417 MASSACHUSETTS AVE NW	S S L: SQ: 1939 SX: LOT: 42 WARD: 3 ZONE D/NOPD/		
DESCRIPTION OF WORK: NEW BUILDING FOUNDATION, SUB-GRADE PARKING AND ABOVE GRADE BUILDING PER PLANS.			
PERMIT TYPE: NEW BUILDING	PLANS (Y/N): Y	EXISTING USE: ASSEMBLY USES, OTHERS	PROPOSED USE: Church/ Place of Worship
PERMISSION IS HEREBY GRANTED TO OWNER: SGI - USA	PERMIT FEE: $9,748.48		
AGENT NAME: DAVID FONTANA 703-691-1100			
CONDITIONS / RESTRICTIONS: ALL CONSTRUCTION DONE ACCORDING TO THE CURRENT BUILDING CODES ; ALL CONSTRUCTION DONE ACCORDING TO THE CURRENT ZONING REGULATIONS ; SEPARATE ELECTRICAL, PLUMBING AND MECHANICAL INSTALLATION PERMITS ARE REQUIRED ; TO REPORT WASTE, FRAUD OR ABUSE BY ANY DC GOVERNMENT OFFICIAL, CALL THE DC INSPECTOR GENERAL AT 1-800-521-1639:			

Acting DIRECTOR: Linda K. Argo	PERMIT CLERK:	EXPIRATION DATE: 4/9/2008

CONDITIONS: As a condition precedent to the issuance of this permit, the owner agrees to conform with all conditions set forth herein, and to perform the work authorized hereby in accordance with the approved application and plans on file with the District Government and in accordance with all applicable laws and regulations of the District of Columbia. The District of Columbia has the right to enter upon the property and to inspect all the work authorized by this permit and to require any change in construction which may be necessary to ensure compliance with the permit and with all the applicable regulations of the District of Columbia. Work authorized under the Permit must start within one (1) year of the date appearing on this permit or this permit is automatically void. If work is not started, any application for partial refund must be made within six months of the date appearing on this permit.

THIS PERMIT MUST ALWAYS BE CONSPICUOUSLY DISPLAYED AT ADDRESS OF WORK UNTIL WORK IS COMPLETED.

NOTIFY THE BUILDING INSPECTOR THE DAY THE WORK STARTS. PHONE (202)442-9557 at 941 NORTH CAPITOL ST NE WASHINGTON DC 20002.

Separate permits are required for all Plumbing, Refrigeration, Gas Fitting, and Electrical Work.

EXHIBIT

J

COPY

ANTI-FRAUD PROTECTION - PATENTS

PRE-FILE NUMBERS		ZONING DISTRICT	FILE NUMBER	PERMIT NUMBER	
N.C.P.C. No:	O.G. No:			96928	By:
H.P.A. No:	S.L. No:	Ward No: 3	Receipt No:	Date:	Receipt No:

GOVERNMENT OF THE DISTRICT OF COLUMBIA

105

DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS

BUILDING AND LAND REGULATION ADMINISTRATION PERMIT SERVICE CENTER
Tel 202-442-4589 Fax 202-442-4862

BLRA-33
(Rev. 2/04)

APPLICATION FOR CONSTRUCTION PERMITS ON PRIVATE PROPERTY

(PRINT IN INK OR TYPE, DO NOT WRITE IN SHADED AREAS OR ON PAGE 4)

CLEARANCE TO FILE
By________ Date________

ERASING, CROSSING OUT, WHITING OUT, OR OTHERWISE ALTERING ANY ENTERED INFORMATION WILL VOID THIS APPLICATION

(A) ALL APPLICANTS MUST COMPLETE ITEMS 1 THRU 27

1. Address of Proposed Work: 3417 Mass. Ave, NW	Suite No.	2. Lot 42	3. Square 1939	4. Application Date 8/9/06

5 Owner of Building or Property SGI-USA	6 Address (*include Zip Code*) 2233 Wisconsin Ave, NW #306 Wash DC	7 Phone 202 338 1750
8 Agent for Owner: (*if applicable*) David Fontana	9. Address (*include Zip Code*) 10856 Main St Fairfax VA 22030	10. Phone 703 691-1100

11. Type of Proposed Work (check all applicable boxes)

☒ New Building
☐ Addition
☐ Alteration and Repair
☐ Raze Building

☐ Retaining Wall
☐ Fence
☐ Shed
☐ Awning

☐ Garage
☐ Sign
☐ Projection
☐ Other (*Specify*) ____________

"False statements or misrepresentation of facts on a permit application and/or plans is subject to criminal penalties pursuant to DC law 22-2405."

12. Description of Proposed Work

New Building Foundation, Sub-Grade parking, and Above Grade Building per plans,

13 Existing Use(s) of Building or Property Vacant Lot	14 Ex. No of Stories of Bldg 0	15 Ex No of Dwelling Units 0	**Official Use Only** Miscellaneous FEE $
16 Proposed Use(s) of Building or Property Church	17 Prop No of Stories of Bldg 3	18 Prop. No of Dwelling Units 0	By: Date:

19 Starting Date ASAP	20 Completion Date of work 1 year	21 Method of Removing Construction Debris [ ] Pick-up Truck [ ] Dumpster [ ] Other (*specify*)	22 Does the proposed work involve disturbing the earth or razing a building? [X] Yes, answer q. 23 [ ] No, SKIP q. 23-27

23. Is the area of disturbed earth more than 50 sq. ft? ☒ Yes, answer q. 24-25 ☐ No, SKIP q. 24-25	24. Soil Erosion Control Methods Silt Fence + hay bails	25. Area of Offsite Drainage 2355 sq. ft	26. No of Footings or Columns	27 Size of Footings or Columns

ALWAYS SIGN THE APPLICATION ON PAGE 3 (SECTION I)

Complete Section B if the proposed work is new building, addition or alteration. (Page 2)
Complete Section C if the proposed work is razing a building. (Page 2)
Complete Section D if the proposed work is a retaining wall. (Page 2)
~~Complete Section E if the proposed work is a fence. (Page 3)~~
Complete Section F if the proposed work is a shed/garage. (Page 3)
Complete Section G if the proposed work is an awning. (Page 3)
Complete Section H if the proposed work is a sign. (Page 3)

5263-A

OFFICIAL USE ONLY

	R	P	H	A	
M					
P					
E					W ☐ Yes ☐ No
S					PLANS

EXHIBIT
I

tabbies

(B) NEW BUILDING, ADDITION, & ALTERATION (COMPLETE ITEMS 28 THRU 60)

28. Architect's Name:	29. D.C. Lic. No.:	30. Architect's Address: *(include Zip Code)*	31. Phone:
32. Engineer's Name:	33. D.C. Lic. No.:	34. Engineer's Address: *(include Zip Code)*	35. Phone
36. Building Contractor's Name:	36A. D.C. Lic. No.	37. Contractor's Address	38. Phone:

39. Type of Construction ☐ Masonry ☐ Steel ☒ Wood ☐ Other ☒ Concrete	40. Fire Suppression: ☒ Fully Sprinklered ☐ Standpipe System ☐ Partially Sprinklered ☐ None ☐ Other ____________	41. Booster Pump ☒ New ☐ Existing ☐ None	42. Total Lot Area 10,000 sq. ft.	43. Breakdown of Lot Area (= 100 %) a. building % b. paved area % c. greenery %

44. Present Gross Floor Area of Bldg. → sq. ft	45. Proposed Gross Floor Area of Bldg. 7000 sq. ft.	46. Floors involved in this permit ☒ All ☐ Floors ________ B1, 1, 2, 3	47. **Projection beyond building line?** ☐ Yes, Answer q. 48 -52 ☒ No. SKIP q. 48-52

48. Number and type of **projection:**	49. Distance of **projection:**	50. Width of **projection:**	51. Width of building frontage ft. 52. Signature of Owner (**projection only**):

53. Water or Sewer Excavation? ☒ Yes ☐ No	54. Driveway Construction? ☒ Yes ☐ No	55. Sheeting/Shoring Necessary? ☒ Yes ☐ No	56. Elevators Involved? ☒ Yes, answer **q. 57** ☐ No	57. No and type of elevator	58. Plans Certified by Engineer? ☐ Yes, cert. attached ☐ No

59. Estimated Cost of Work

(a) New/Add.: $ ____________

(b) Alt/ Repair $ ____________

Total $6,633,284.00

60. Volume of New Bldg. or Addition 391,616 cubic ft.

OFFICIAL USE ONLY

Alter/Repair FEE		New Const. FEE		Filing Fee		TOTAL PERMIT FEE	
$		$		$		$	
By:	Date:	By:	Date:	By:	Date:	By:	Date:

(C) RAZING A BUILDING (COMPLETE ITEMS 61 THRU 83)

61. Raze Contractor's Name:	62. Contractor's Address: *(include Zip Code)*	63. Phone:

64. Insurance Company	65. Policy or Cert. Number	66. Expiration Date	67. Raze Method

68. Building Material	69. Raze Entire Building? ☐ Yes ☐ No	70. Building Condemned? ☐ Yes ☐ No	70A. Building Vacant? ☐ Yes ☐ No	71. Public Space Vault? ☐ Yes ☐ No	72. Disconnect Water and/or Sewer? ☐ Yes ☐ No	73. Size of Water Connection in.
74. Plumber's Name:	75. D.C. Lic. No.	76. Length ft.	77. Width ft.	78. Height ft.	79. Volume ft.	80. Party Wall? ☐ Yes ☐ No

81. Asbestos in the Building?
☐ No ☐ Yes, location ____________

82. Raze Contractor Signature

83. Owner's Signature

OFFICIAL USE ONLY

FEE	By:	Date:
$		

(D) RETAINING WALL (COMPLETE ITEMS 84 THRU 93)

The retaining wall will not obstruct any accessible parking required by D.C. Zoning Regulations.

84. Cost of Work $	85. Material:	86. Height	87. Color	88. Location: ☐ Entirely on Owner's Land ☐ Party Line with Adjacent Neighboring Land *

* If party wall, the owner of the adjoining property must agree to the erection of the retaining wall and this application

89. Signature of Adjoining Owner:	90: Phone: Home Work	
91. Address of Adjoining Owner:	92. Lot:	93. Square:

OFFICIAL USE ONLY

FEE	By:	Date:
$		

(E) FENCE (COMPLETE ITEMS 94 THRU 102) The fence will not obstruct any accessible parking required by D.C. Zoning Regulations

94. Material and type:	95. Height ft.	96. Color:	97. Location: ☐ Entirely on Owner's Land ☐ Party Line with Adjacent Neighboring Land *

* If party fence, the owner of the adjoining property must agree to the erection of the fence and this application

98. Signature of Adjoining Owner:	99. Phone: Work Home		OFFICIAL USE ONLY FEE $
100. Address of Adjoining Owner:	101. Lot	102. Square	By: Date:

(F) SHED OR GARAGE (COMPLETE ITEMS 103 THRU 113)

103. Number	104. Length: ft.	105. Width ft.	106. Area: sq.ft	107. Height ft.	108. Volume cu.ft	109. Est. Cost of Work $	OFFICIAL USE ONLY FEE $
110. Material of Roof	111. Material of Sides	112. Wall Thickness: ☐ External ( ) inches ☐ Party ( ) inches				113. Color	By: Date:

(G) AWNING (COMPLETE ITEMS 114 THRU 123)

114. Number:	115. Color	116. Type: ☐ Folding ☐ Fixed	117. Projections: Beyond bldg. line ______ in. Beyond pt of attachm ______ in	118. Height of Lowest Part of awning (a)______ ft above sidewalk (b)______ ft above parking (c)______ ft above grade	OFFICIAL USE ONLY FEE $
119. Material of Frame	120. Material of Covering	121. Lettering on awning? ☐ Yes ☐ No	122. Fixed Posts? ☐ Yes ☐ No 123. Over Side-walk café? ☐ Yes ☐ No		By: Date:

(H) SIGN (COMPLETE ITEMS 124 THRU 144)

124. Number	125. Electric Signs? ☐ Yes, answer q. 126-132 ☐ No. SKIP q. 126-132	126. Type: ☐ Incandes. ☐ Flouresc. ☐ Neon	127. Power _______ VA	128. Electrical Contractor License Number:

129. Address of Electrical Contractor (*include Zip*)	130. Signature of Licensed Electrician	131. Phone No.	132. License No.

133. Height relative to building and ground

(a) ________ ft ________ in above sidewalk
(b) ________ ft ________ in above roof
(c) ________ ft ________ in is building height
(d) ________ ft ________ in above projection of window
(e) ________ ft ________ in from roof to sign's bottom

134. Material of Sign		135. Type of Sign	136. Color
137. Width ft.	138. Length ft.	139. Area of Sign sq. ft	140. Wide of Business frontage ft.

141. C of O No for Bldg.	142. Sign Contractor: License No.	
143. Sign Contractor's Address:	144. Phone:	

OFFICIAL USE ONLY

Sign FEE		Elect. FEE		Total FEE	
$		$		$	
By:	Date:	By:	Date:	By:	Date:

(I) APPLICANT'S SIGNATURE

A. OWNER: I hereby certify that I am the owner of the property, that the application and plans are complete and correct to the best of my knowledge, that if a permit (or permits) is issued, the construction will conform to the D.C. Construction Codes, the Zoning Regulations, and other applicable laws and regulations of the District of Columbia.

Signature of Owner ____________ Address ____________ Date ________

B. AGENT: I hereby certify that I have the authority of the owner to make this application. I declare that the application and plans are complete and correct to the best of my knowledge. The owner has assured me that if a permit (or permits) is issued, the construction will conform to the D.C. Construction Codes, the Zoning Regulations, and other applicable laws and regulations of the District of Columbia

Signature of Agent ____________ Address 10856 Main St. Fairfax VA 22030 Date 8/10/06

(J) APPROVALS (DO NOT WRITE ON THIS PAGE, OFFICIAL USE ONLY)

A. PERMIT CONTROL

☐ 1. Fine Arts by: ____________ Date: ____________
☐ 2. Historic by: ____________ Date: 8/14/2005
☐ 3. Cap. Gateway by: ____________ Date: ____________
☐ 4. NCPC: ____________ Date: ____________
☐ 5. W.H./Obs. Precinct by: ____________ Date: ____________
☐ 6. Flood Control by: ____________ Date: ____________
☐ 7. WMATA by: ____________ Date: ____________
☐ 8. Condem. by: ____________ Date: ____________
☐ 9. Rental Accom. by: ____________ Date: ____________
☐ 10. Chinatown Distr. by: ____________ Date: ____________
☐ 11. Utility Clearance by: ____________ Date: ____________
☐ 12. General Liability Ins. Policy
Clearance by: ____________ Date: ____________

B. CLEARANCE TO FILE PLANS

☐ 1. Zoning by: ____________ Date: ____________

☐ 2. DDOT – Permit and Records Division
Access to Parking Street ☐ Street ☐ Alley
Cleared by: ____________ Date: ____________

☐ 3. DDOT – Consumer Engineer
Cleared by: ____________ Date: ____________

☐ 4. ERA – Erosion Control
Cleared by: ____________ Date: ____________

Restrictions of the Permit:

TO REPORT WASTE, FRAUD, OR ABUSE BY ANY D.C. GOVERNMENT OFFICIAL, CALL THE D.C. INSPECTOR GENERAL AT 1-800-521-1639

C. PLANS AND APPLICATION APPROVAL

☐ 1. Information Counter by: MB Date: 8-10-06
☐ 2. Information Center by: ____________ Date: ____________
☐ ☐ (a) ABRA by: ____________ Date: ____________
☐ (b) Noise Control by: ____________ Date: ____________
☐ (c) Industrial Safety by: ____________ Date: ____________
☐ (d) Vector Control by: ____________ Date: ____________
☐ (e) D.C. Animal by: ____________ Date: ____________
☐ (f) Police Dept. by: ____________ Date: ____________
☑ 3. Zoning by: ____________ Date: ____________
Zoning Update by: ____________ Date: ____________
Zoning Overlay approval by : ____________ Date: ____________
☑ 4. DDOT – Permit and Records Division/Deposit #
Sidewalk Deposit $ ________ Driveway Deposit $ ________
by ____________ Date ____________
☐ 5. Water/Sewer Design Branch
Consumer Eng. by: ____________ Date ____________
☑ 6. Environmental Regulation Administration
☐ Environmental Policy Review
Control No. ____________
by ____________ Date ____________
☐ Erosion Control by: ____________ Date ____________
☐ Storm Water Mgmt. by: ____________ Date ____________
Plan No ____________
☐ Air Quality by: ____________ Date ____________
☐ Underground Storage by: ____________ Date ____________
☑ 7. Mechanical Eng. Review by: ____________ Date ____________
☑ 8. Plumbing Eng. Review by ____________ Date ____________
☑ 9. Electrical Eng. Review by: ____________ Date ____________
☐ 10. Health Plan Review
☐ (a) Food Plan Review by: ____________ Date ____________
☐ (b) Medical X-Ray Plan Rev.
by: ____________ Date ____________
☑ 11. Fire Protection Plan Review
by: ____________ Date ____________
☐ 12. D.C. Fire Dept. (Fire Prevention Plan Review Section)
by: ____________ Date ____________
☐ 13. Elevator Plan Rev. Sec. by: ____________ Date ____________
☐ 14. Plumbing Insp Rev. by: ____________ Date ____________
☐ 15. Construction Insp. Branch (Field Check)
by: ____________ Date ____________
☐ 16. Historic Pres. Div. by: ____________ Date ____________
☐ 17 EISF: ____________ Date ____________
☑ 18. Structural Eng. by: ____________ Date ____________
☐ 19. Permit and Certificate Issuance Counter
by: ____________ Date ____________

☐ 20. QC By: ____________ Date ____________

ZONING

C of O Number ____________ Date ____________
Existing Use(s) VACANT
Proposed Use ____________

☑ New Bldg
☑ P.O.D.
☐ File in room 2124

Job No. 5263 A.
BZA Case No
PUD Order No.

DDOT – PUBLIC SPACE

Street Name: ____________
Street Width: ____________
Road Width: ____________
Sidewalk Width: ____________
Parking: ____________
Restrictions:

BLRA 33C

CONTRACT AGREEMENT

Name of Contractor/Owner [✓ Owner] SGI-USA **Contractor's License No.**

Address of Contractor/ Owner 2233 Wisconsin Ave, NW #306 Wash, DC 20007 **Date:** 3/7/06

ADDRESS OF PROPOSED WORK 3417 Mass Ave, NW	LOT: 42 SQUARE: 1939
OWNER OF BUILDING OR BUSINESS: SGI-USA	PHONE No: 202 338-1750
DESCRIPTION OF PROPOSED WORK: New Building per plans	

COST ESTIMATE

CONSTRUCTION e.g drywall, ceilings, framing, carpentry etc	$ 5,766,006.00
ELECTRICAL	$ 509,398.00
MECHANICAL	$ 212,630.00
PLUMBING	$ 60,000.00
FIRE PROTECTION e.g sprinkler system, fire alarm system, generator etc.	$ 85,250.00
DEMOLITION	$ —
MISC/OTHER (please specify)	$
TOTAL	$ 6,633,284

The labor and material costs of counter tops, kitchen cabinets, floor coverings, tile work, caulking, patching and plaster repair, painting other than fire retardant paint, gutters and downspouts, not more than 160 square feet of gypsum board shall not be included in the cost estimate for permitting purposes. The entire list can be seen in the 1999 D.C Building Supplement Chapter 1 Section 107.3.

The foregoing terms, specifications and conditions are satisfactory and hereby agreed to. You are authorized to work as specified and payment will be made in the amount as outlined. Upon signing this agreement, the owner represents and warrants that he or she is the owner or the authorized agent of the owner of the aforesaid premises and that he or she has read this agreement.

CONTRACTOR ______________________ Date: ________
Signature & print

OWNER OF BUILDING/BUSINESS ______________________ Date: 3/7/06
Signature & print

Upon signing this document, the owner and contractor declare that the cost of construction as specified above for the referenced project is true and correct to the best of their knowledge

Please fill out this agreement form in accordance with D.C Construction Code Supplement 1999, Chapter 1 Section 112.1.

DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH ADMINISTRATION
LEAD HAZARD CONTROL PERMIT QUESTIONNAIRE AND EXEMPTION FORM

Project Address: 3417 Mass Ave, NW

Name of Owner(s): SGI-USA **Name of Contractor:** Structure Tone

Phone Number: 202 338-1750 **Square #:** 1939 **Lot #:** 42 **Ward #:** ______

Project Start Date: ASAP **Project End Date:** 6 months

Building Type: **Commercial -**
- Office ☐
- Mixed Use (Explain) ______

Residential -
- Multi-family ☐
- Single-Family ☐
- Elderly or handicapped ☐

Government -
- Federal ☐
- District ☐

Institutional -
- Hospital ☐
- Museum ☐
- School/Child Development ☐
- Church ☒

1. **Is the project planned in response to a child being identified as lead poisoned?** YES ☐ NO ☒

2. **Is the project designed to eliminate or reduce lead-based paint hazards in a pre-1978 building or structure?** YES ☐ NO ☒

If you answer "YES", contact the Lead Division at 51 N Street, N.E., 3rd Floor (202) 535-2637 for a lead-based paint control permit application and notification form, unless an exemption listed below applies. If you answer "NO", a permit is not required, but you are required to answer the following questions:

[illegible]	[illegible]	[illegible]	[illegible]
1. Is the project disturbing deteriorated lead based paint on surfaces totaling more than 2 square feet per room, or 20 square feet on exterior surfaces, or 10% of a building component with a small surface (such as a small painted window frame) involving the following:			
A. Removal and replacement of lead-based paint components, e.g. windows, doors and baseboards?		No	
B. Onsite stripping and removal of lead-based paint?		No	
C. Partial demolition or gutting of building?		No	
2. Does the project involve the removal and covering of lead-contaminated soil?		No	

EXEMPTIONS

Please indicate the applicable exemption from the following list:

- ☑ **Individuals who perform lead-based paint activities at residences which they own, unless the residence is occupied by a person or persons other than the owner or the owner's immediate family; unless any child under the age of 8 years resides, is expected to reside in, or regularly visits such housing.**
- ☐ **Housing for the elderly or persons with disabilities; unless any child under the age of 8 years resides, is expected to reside in, or regularly visits such housing.**
- ☐ **Any (0)-bedroom unit, such as an efficiency apartment.**

AFFIDAVIT

I declare that the information provided is accurate, true and complete to the best of my knowledge and belief, and/or I have the authority to represent the owner of the property to answer this application and sign on behalf of the company and/or persons listed as owners. I understand that if such information contained in this application is false, I am subject to the penalty provisions of D.C. Law 11-221. Any fraud or misrepresentation on an application shall be grounds for automatic rejection and/or civil administrative penalties. I understand that failure to provide full disclosure of any of the requested or required information may result in rejection of this application for approval.

____
SIGNATURE

3/7/06
DATE

David Fairover
PRINT NAME

[redacted]

ENVIRONMENTAL HEALTH ADMINISTRATION
CONSTRUCTION PERMIT APPLICATION – SUPPLEMENTAL FORM – ENVIRONMENTAL QUESTIONNAIRE

JECT ADDRESS: 3417 Mass Ave, NW LOT: 42 SQUARE: 1939

JECT DESCRIPTION: New Building

please answer all 12 questions in this questionnaire, by checking either column "Yes" or "No" for each question. If you answer "Yes" to any of the stions, you should contact the corresponding office(s) indicated in column 'contact person/office' as soon as possible. Until this application is reviewed and roved by the concerned office(s), the permit will not be issued.

SCOPE OF PROJECT	YES	NO	CONTACT PERSON/OFFICE	OFFICE USE (Initial/Date)
Will the proposed use involve the construction of a facility for the handling, transfer, storage, disposal or treatment of solid waste, medical waste, or recyclable materials?		X	(202) 535-2260, EIS Coordinator, EHA	
Will the work to be performed involve the assessment or clean-up of soils associated with the release of materials from an underground storage tank (UST)?		X	(202) 535-2525, Underground Storage Tank Division, EHA (202) 535-2250, Air Quality Division, EHA	
Will the work to be performed involve the assessment or clean-up of groundwater associated with the release of materials from an underground storage tank (UST)?		X	(202) 535-2525, Underground Storage Tank Division, EHA (202) 535-2190, Water Quality Division, EHA (202) 535-2250 Air Quality Division, EHA	
Will the proposed project involve the installation or drilling of wells other than for the purposes stated in questions 3 and 4?		X	(202) 535-2190, Water Quality Division, EHA	
Will the proposed project involve the generation, treatment, storage, disposal or transportation of chemicals or other substances which may be considered hazardous?		X	(202) 535-2250, Hazardous Waste Division, EHA	
Will the proposed project involve construction that will disturb the sediment in rivers, streams or wetlands?		X	(202) 535-2190, Water Quality Division, EHA	
Will the work to be performed involve the installation, removal, abandonment, or repair of an underground storage tank (UST) system?		X	(202) 535-2525, Underground Storage Tank Division, EHA	
Will the proposed project result in the discharge into the air of gases, dust, or the creation of any objectionable odors?		X	(202) 535-2250, Air Quality Division, EHA	
Will the proposed project involve the removal, handling, transportation, disposal, or encapsulation of asbestos? **Please bring with you a copy of your asbestos survey, ten-day notification form, and asbestos abatement permit fee		X	(202) 535-2250, Air Quality Division, EHA	
Was the building built before 1978? (Lead paint may be present.)		X	If you answer "Yes" to this question, please answer the questions and follow the instructions on the "Lead Hazard Control Questionnaire" to determine if you need a permit to conduct a Lead Abatement Project	

AFFIDAVIT

ereby certify that I have the authority of the owner of the property to make this application. I declare that the answers to the above questions in this questionnaire are complete and correct to the best of my knowledge.

gnature: Name (print) David Fontana

ddress 10856 Main St Fairfax VA 22030 Date 3/7/06 Phone 703 691-1100

OFFICE USE ONLY

OMMENTS AND PERMIT RESTRICTIONS:

(USE REVERSE IF NECESSA

DEPARTMENT OF CONSUMER & REGULATORY AFFAIRS
Building and Land Regulation Administration

ENVIRONMENTAL INTAKE FORM

Project Name: Buddhist Culture Center - Church	**Project Address:** 3417 Mass Ave, NW	**Lot:** 42	**Square:** 1939
Filed Job Application # (if applicable):	**Project Description:** New Building		

Owner: SGIUSA **Date:** 3/7/06

Owner's address and phone #: 2233 Wisconsin Ave, NW #306 wash, DC 20007

Authorized agent: David Fontana McKeever Services

Address and Phone # of authorized agent: 10856 Main St Fairfax VA 22152 703 691-1100

Scope of the Project	Yes	No	*Instructions*
1. Is this a solid waste facility?			If yes, see EIS Coordinator
2. Does the owner of this site own adjacent or abutting property?		X	If yes, submit a site plan to EIS Coordinator, DCRA. If no plan exists, submit written explanation to EIS Coordinator, DCRA.
3. Does the owner of this site plan to acquire property that is adjacent to or abutting this site within the next three years?		X	If yes, submit a site plan to EIS Coordinator, DCRA. If no plan exists, submit written explanation to EIS Coordinator, DCRA.
4. Is additional activity planned by the applicant for this site or any site within the same square during the next three years that requires a permit?		X	If yes, submit a site plan to EIS Coordinator, DCRA. If no plan exists, submit written explanation to EIS Coordinator, DCRA.
5. Is this a residential project within the R-1 through R-5-A zoning districts?		X	If yes, skip to signature line.
6. Is this project a single-family residence that is not in conjunction with the building of two or more units?		X	If yes, skip to signature line.
7. Is this project an accessory structure such as a garage, patio, swimming pool or fence?		X	If yes, skip to signature line.
8. Is the project solely an interior renovation with no change in the use or capacity of the structure being renovated?		X	If yes, skip to signature line.
9. Is the project located in an Economic Development Zone, as defined in DC Code 5-1401 et seq (DC Law 7-177)?		X	If yes, skip to signature line.
10. Is the project located within the Central Employment Area as defined in DC Zoning Regulations? (Title 11DCMR)		X	If yes, skip to signature line.
11. Does the project involve only the operation, repair, maintenance, or minor alteration of public structures, facilities, mechanical equipment, or topographical features and involve negligible or no expansion of use beyond that previously existing?		X	If yes, skip to signature line.
12. Has an Environmental Impact Statement (EIS) been prepared pursuant to the National Environmental Policy Act of 1969 (NEPA), or a determination made that no EIS is needed, or has the functional equivalent of an EIS been prepared?		X	If yes, submit documentation to EIS Coordinator, DCRA.

-OVER-

Scope of the Project	Yes	No	Instructions
13. Is an exemption claimed from the requirement to submit an Environmental Impact Screening Form pursuant to Title 20, Sec. 7202 that is not referred to in this form? If yes, describe the exemption and cite the relevant section of the regulations on an attachment.		X	**If yes, describe on an attachment and submit to EIS Coordinator, DCRA.**
14. Does the total cost of the project exceed $1.51 million, including site preparation and construction?	X		**If yes, and no exemption claimed, Environmental Impact Screening Form (EISF) required.**
15. Is the cost of this project $1.51 million or less? If yes, please answer all of the following questions:			**If yes, complete A through G.**
A. Does the project site contain any species of plant or animal that is identified as threatened or endangered?			**If yes, EISF required.**
B. Are any streams, lakes, ponds, springs or wetlands within 100 feet of the project site?			**If yes, EISF required.**
C. Will the project result in an emission of odorous or other air pollutants from any source, including VOCs?			**If yes, EISF required.**
D. Will this action involve the use, production or disposal of hazardous substances as defined in 20 DCMR 7299?			**If yes, EISF required.**
E. Will construction be on land where the depth to the water table is less than 3 feet?			**If yes, EISF required.**
F. Will blasting occur as part of the project?			**If yes, EISF required.**
G. Will the project generate medical, infectious, radioactive or hazardous waste?			**If yes, EISF required.**

I certify that all of the statements on this application are true and complete to the best of my knowledge and belief. I agree to comply with all applicable laws and regulations of the District of Columbia. The making of false statements on this application is punishable by criminal penalties. (DC Code Sec. 22-2514)

Signature of Owner/Authorized Agent ____________ **Date** 3/7/06

OFFICIAL USE ONLY

Environmental Impact Screening Form required: Yes X **No** ______ **Referred to EIS Coordinator** ______

DCRA Reviewer Toni A Taylor **Date** 3-7-06

If yes, submit to EIS Coordinator
Department of Consumer and Regulatory Affairs
Building and Land Regulation Administration

Comments ____________________

NOTE: APPROVAL OF A BUILDING PERMIT IS NOT SYNONYMOUS WITH APPROVAL OF AN ACTION OR ENTIRE PROJECT UNDER THE ENVIRONMENTAL POLICY ACT OF 1989. IF THE APPLICANT BUILDS ON THE SAME, ADJACENT OR ABUTTING PROPERTY OR EXPANDS UPON THE WORK DESCRIBED IN THE INSTANT APPLICATION OR PLANS AND SPECIFICATIONS WITHIN THREE YEARS, AN ENVIRONMENTAL IMPACT SCREENING FORM MAY BE REQUIRED FOR THE ENTIRE PROJECT, INCLUDING THE PORTION ENCOMPASSED BY THIS APPLICATION AND PERMIT APPROVAL. FURTHER, IF THE ACTION IS IN VIOLATION OF ANY FEDERAL OR DISTRICT LAWS PERTAINING TO THE ENVIRONMENT, AN EISF CAN BE REQUIRED.

TO REPORT WASTE, FRAUD, OR ABUSE BY ANY DC GOVERNMENT OFFICE OR OFFICIAL, CALL THE INSPECTOR GENERAL ON 1- 800- 521-1639

GOVERNMENT OF THE DISTRICT OF COLUMBIA
BLRA-10 (Rev. 8/89) /89)

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS
BUILDING AND LAND REGULATION ADMINISTRATION
TECHNICAL REVIEW BRANCH

PLAN CORRECTION LIST

Job No. 5263-A

Engineer	**Section**	**Date**
Godwin Ukwuani	MP	9-14-06

CHANGES REQUIRED ON PLANS PRIOR TO APPROVAL:

No.

1. Provide CO (carbon monoxide) sensors in the garage area per IMC 2000 section 502.12; 404.
2. Garage exhaust shall comply with IMC and DCMR 1 Chapter 4E. Verify compliance in plan.
3. Review airflow riser diagram on stack RF to AHU-1, the 30x16 sizing.
4. Review storm water sewer pipes layout on dwg P.2-00 for inconsistency. Indicate pitch on pipe layout
5. Cleanout fixtures for storm and sanitary shal be per IPC 2000 section 708.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
BLRA-10 (Rev. 8/89) /89)

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS
BUILDING AND LAND REGULATION ADMINISTRATION
TECHNICAL REVIEW BRANCH

PLAN CORRECTION LIST

Job No. 5263 A

Engineer S. A. LESTER

Section FIRE PROTECTION / ELEVATOR

Date 10/30/06

CHANGES REQUIRED ON PLANS PRIOR TO APPROVAL:

No.	
*	SHOW FIRE HYDRANT LOCATION(S)
*	SHOW LOCATION OF FIRE DEPT. CONNECTION
*	FOUNTAIN PLANS NOT STAMPED AND SIGNED
*	THE MAIN STAIR IS OPEN AT LEVELS 1 & 2. STAIRS MUST BE ENCLOSED
*	IF LARGE SANCTUARY IS LOCKED HOW IS 2ND STAIR ACCESSED TWO UNRESTRICTED MEANS OF EGRESS IS REQUIRED
*	INDICATE WHICH SHEET PROVIDES ELEVATOR SHAFT ENCLOSURE ELEVATION DETAILS
*	WHAT IS THE ELEVATOR TYPE?
M-2	ELEV. M/C ROOM MUST BE 2 HR RATED ∴ ALL DUCT PENETRATIONS MUST BE PROTECTED WITH FIRE DAMPERS. HOW IS COOLING PROVIDED TO ENABLE TEMP WITHIN ~~A~~ THE RANGE ESTABLISHED FOR THE EQPT.
*	PROVIDE MECH PLANS FOR MEZZ. LEVEL
E-4-01M	ADD FIRE ALARM PULL TO STAIR ENTRANCE AT MEZZ VESTIBULE AREA
E-4-02	SHOW F.A. STATION (PULL + A/V) AT ENTRANCE TO STAIR FROM LARGE SANC REVISE F.A. SYSTEM AS REQUIRED BY CHANGES TO FLOOR PLAN. REVISE F.A. RISER ACCORDINGLY.
*	IF ELEV. IS HYDRAULIC PLUMBING PLANS DOES NOT ACCOUNT FOR SPILLED [illegible] FLUID

0-0086 wd-205

Government of the District of Columbia
Department of Consumer and Regulatory Affairs
Licensing and Permitting
941 North Capitol Street N.E 2nd Floor
Washington D.C 2002

BLRA 10

Review Plan Correction List	Job No: 5263 A

Reviewer: Dennis Anibaba	Section: Structural	Date: 12/18/06

*** Changes Required on Plans Prior to Approval:**

No.

1. Public space shall review and grant approval for works in public space. Projection to be filled out for the pavers in the public right of way.
2. There is a section cut on sheet A2.00M referring to a sheet A8.20, correct callout as needed or provide sheet.
3. Provide structural certification letter for the proposed building.
4. Provide a copy of the geotechnical soil report verifying the design allowable soil bearing for the staff to review.
5. Ensure the main wind force resisting systems are designed for the minimum wind load per the requirements of DCMR 12.
6. Provide width of elevator door opening on the plan.

DISTRICT OF COLUMBIA GOVERNMENT
OFFICE OF THE SURVEYOR

Washington, D.C., June 12, 2006

Plat for Building Permit of SQUARE 1939 LOT 42

Scale: 1 inch = 30 feet Recorded in Book 198 Page 26

Receipt No. 00858

Furnished to: DAVID FONTANA

Surveyor, D.C.

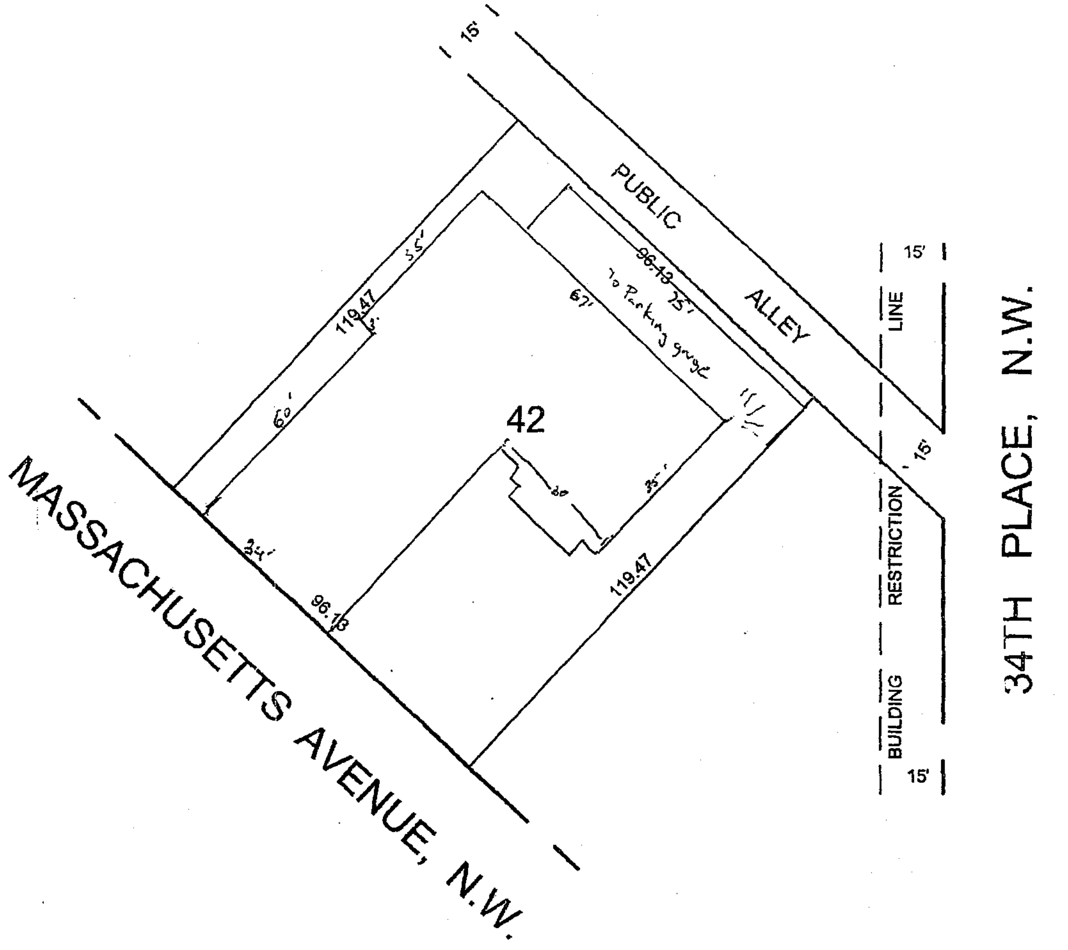
By: L.M.A.

I hereby certify that all existing improvements shown hereon, are completely dimensioned, and are correctly platted; that all proposed buildings or construction, or parts thereof, including covered porches, are correctly dimensioned and platted and agree with plans accompanying the application; that the foundation plans as shown hereon is drawn, and dimensioned accurately to the same scale as the property lines shown on this plat;and that by reason of the proposed improvements to be erected as shown hereon the size of any adjoining lot or premises is not decreased to an area less than is required by the Zoning Regulations for light and ventilation; and it is further certified and agreed that accessible parking area where required by the Zoning Regulations will be reserved in accordance with the Zoning Regulations, and that this area has been correctly drawn and dimensioned hereon. It is further agreed that the elevation of the accessible parking area with respect to the Highway Department approved curb and alley grade will not result in a rate of grade along centerline of driveway at any point on private property in excess of 20% for single-family dwellings or flats, or in excess of 12% at any point for other buildings. (The policy of the Highway Department permits a maximum driveway grade of 12% across the public parking and the private restricted property.)

Date: 6/15/06

(Signature of owner or his authorized agent)

NOTE: Data shown for Assessment and Taxation Lots or Parcels are in accordance with the records of the Department of Finance and Revenue, Assessment Administration, and do not necessarily agree with deed description.



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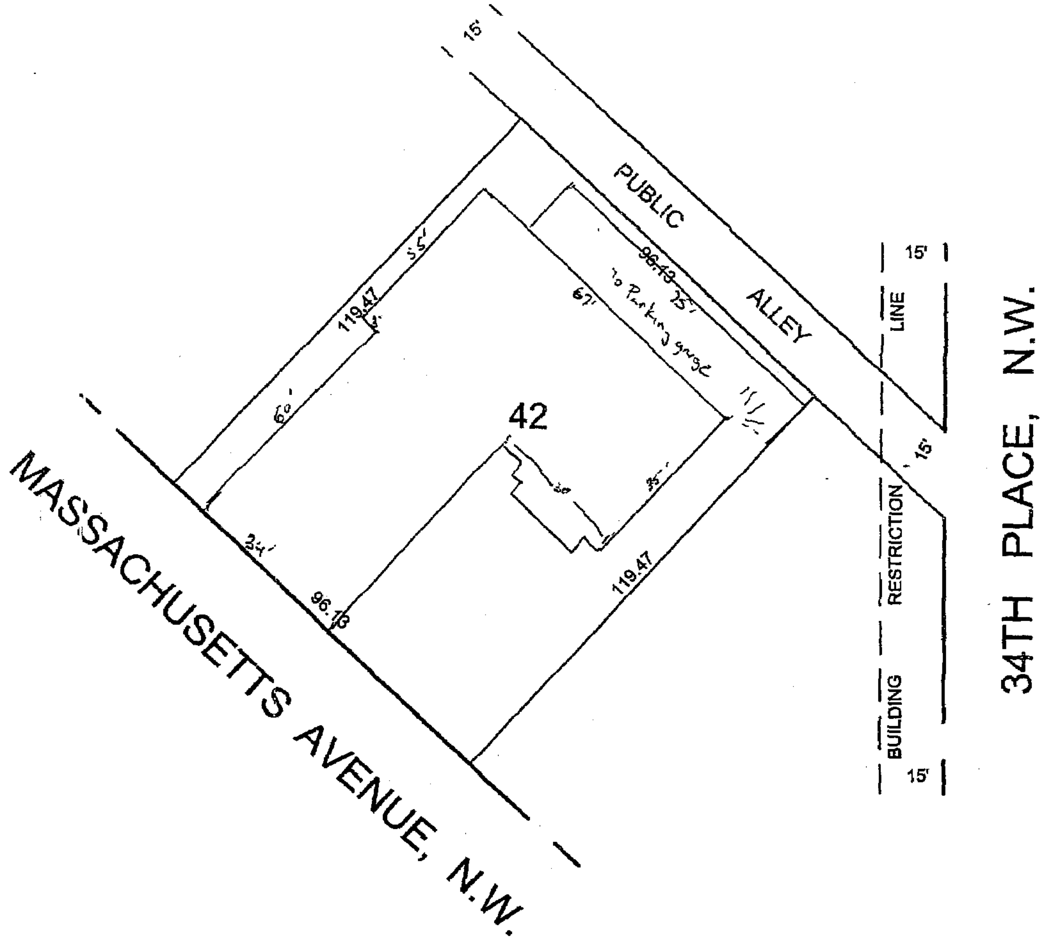

SO-00858(2006)

DISTRICT OF COLUMBIA GOVERNMENT
OFFICE OF THE SURVEYOR

Washington, D.C., June 12, 2006

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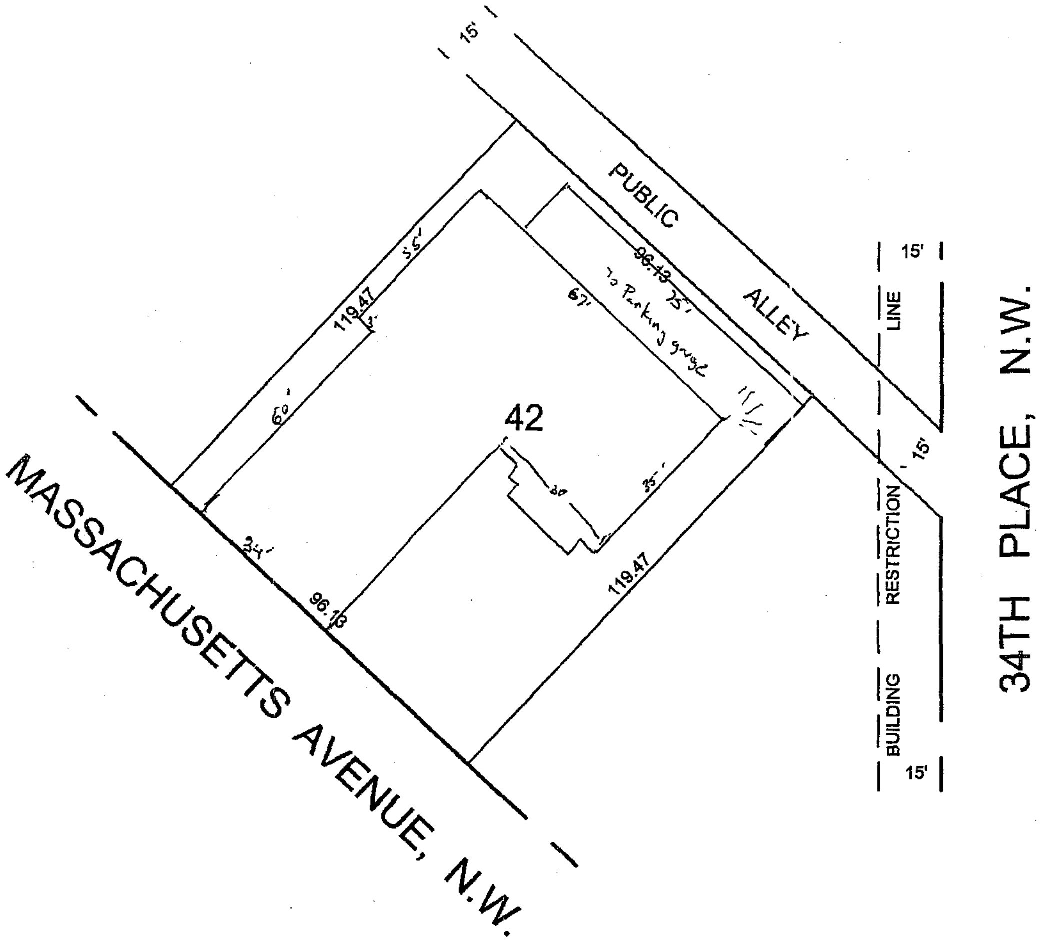

DISTRICT OF COLUMBIA GOVERNMENT
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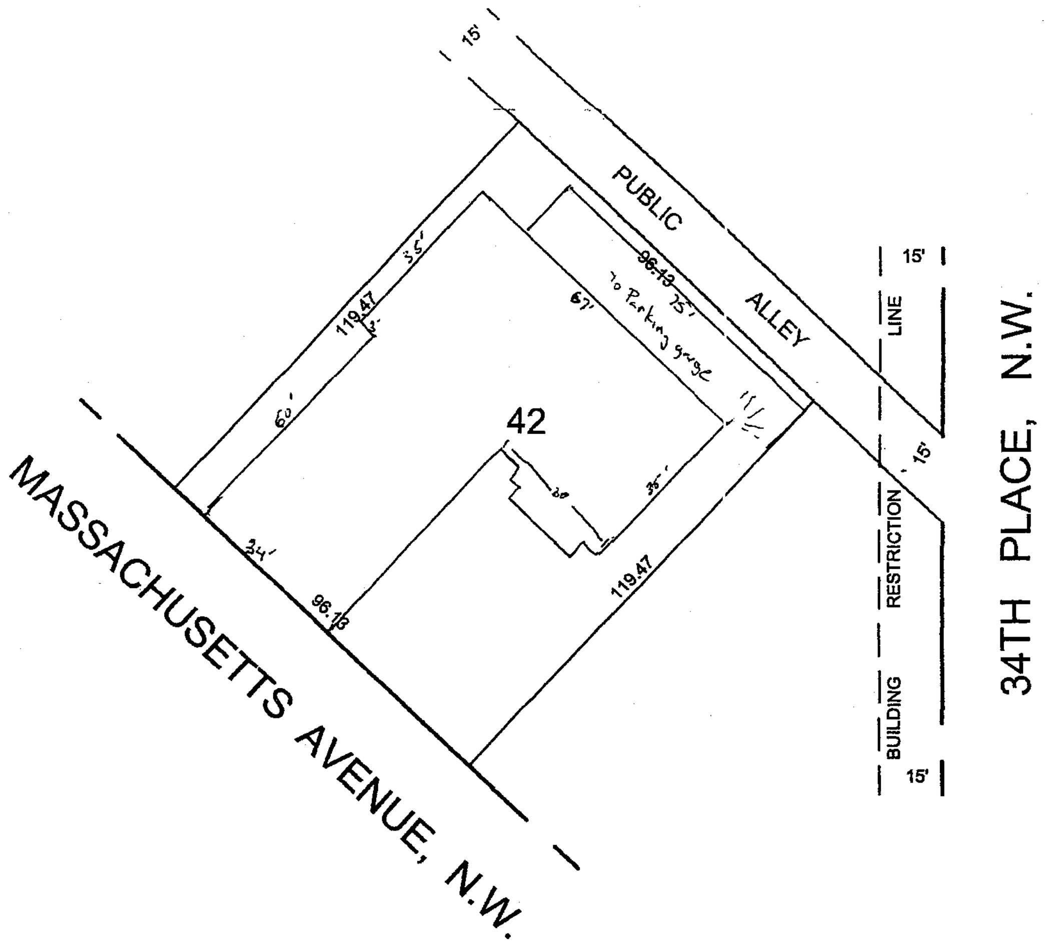


D.C. TREASURER

Department of Consumer and Regulatory Affairs

Building and Land Regulation Administration - Permit Service Center

June 21, 2006

271967

Building Permit Application Filing Fee Receipt

Engineering Coordinator: William Schoon

Project identification

Tracking Number:

XXXX A 6

Project Location:

3417 MASSACHUSETTS AVE NW

Special requirements

☐ Historic ☐ Other:

☐ Fine Arts

☐ BZA

Payment

Make payment to D.C. Treasurer

Filing Fee: $2,000.00

Filing fee paid: ☒ ____________

Amount paid: $2,000.00

Applicant/Agent

DAVID FONTANA 703-691-1100

Credit BLRA Account # 3012

DCRA strives to complete building permit application reviews in 30 days or less. You can find the status of your application using the property address or tracking number at the DCRA Website:

www.dcra.dc.gov/services/permits/idjob.asp

Your tracking number is: XXXX A 6

Approved applications not retreived and paid for within 120 days of customer notification will be cancelled, after which the customer must re-apply for a building permit.

COPY

Department of Consumer and Regulatory Affairs

Permit Center
941 North Capitol St. NE Room 2100
Washington DC 20002

B

Tel:(202) 442-4589

Building Permit

THIS PERMIT IS VALID ONLY FOR THE PREMISES OF THE PROJECT ADDRESS

PERMIT NO. 96928 **DATE: 4/10/2007**

ADDRESS OF PROJECT: 3417 MASSACHUSETTS AVE NW
S S L: SQ: 1939 SX: LOT: 42
WARD: 3 ZONE: D/NOPD

DESCRIPTION OF WORK:
NEW BUILDING FOUNDATION, SUB-GRADE PARKING AND ABOVE GRADE BUILDING PER PLANS.

PERMIT TYPE:	PLANS (Y/N):	EXISTING USE:	PROPOSED USE:
NEW BUILDING	Y	ASSEMBLY USES, OTHERS	Church/ Place of Worship

PERMISSION IS HEREBY GRANTED TO
OWNER: SGI - USA
PERMIT FEE: $9,748.48

AGENT NAME:
DAVID FONTANA 703-691-1100

CONDITIONS / RESTRICTIONS:
ALL CONSTRUCTION DONE ACCORDING TO THE CURRENT BUILDING CODES ; ALL CONSTRUCTION DONE ACCORDING TO THE CURRENT ZONING REGULATIONS ; SEPARATE ELECTRICAL, PLUMBING AND MECHANICAL INSTALLATION PERMITS ARE REQUIRED ;

TO REPORT WASTE, FRAUD OR ABUSE BY ANY DC GOVERNMENT OFFICIAL, CALL THE DC INSPECTOR GENERAL AT 1-800-521-1639:

Acting DIRECTOR: Linda K. Argo
Linda K. Argo
PERMIT CLERK:
EXPIRATION DATE: 4/9/2008

CONDITIONS: As a condition precedent to the issuance of this permit, the owner agrees to conform with all conditions set forth herein, and to perform the work authorized hereby in accordance with the approved application and plans on file with the District Government and in accordance with all applicable laws and regulations of the District of Columbia. The District of Columbia has the right to enter upon the property and to inspect all the work authorized by this permit and to require any change in construction which may be necessary to ensure compliance with the permit and with all the applicable regulations of the District of Columbia. Work authorized under the Permit must start within one (1) year of the date appearing on this permit or this permit is automatically void. If work is not started, any application for partial refund must be made within six months of the date appearing on this permit.

THIS PERMIT MUST ALWAYS BE CONSPICUOUSLY DISPLAYED AT ADDRESS OF WORK UNTIL WORK IS COMPLETED.

NOTIFY THE BUILDING INSPECTOR THE DAY THE WORK STARTS. PHONE (202)442-9557 at 941 NORTH CAPITOL ST NE WASHINGTON DC 20002

Separate permits are required for all Plumbing, Refrigeration, Gas Fitting, and Electrical Work.

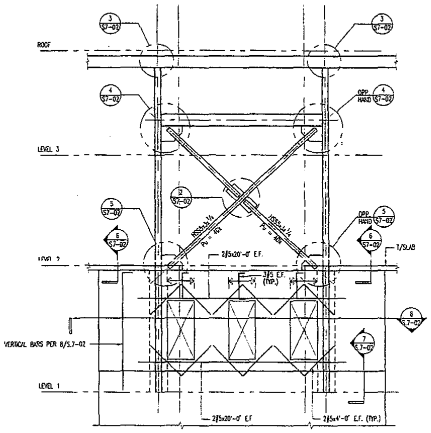
EXHIBIT
J

tabbies

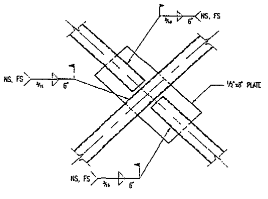
COPY

ANTI-FRAUD PROTECTION - PATENTS 5,197,765, 5,340,159

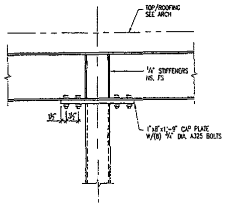
BOARD OF ZONING ADJUSTMENT
District of Columbia
CASE NO. 17663
EXHIBIT NO. 21



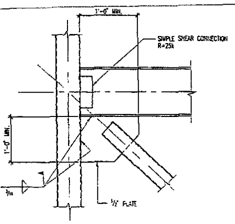
① BRACED FRAME ELEVATION
1/4"=1'-0"



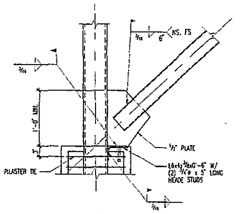
② BRACED FRAME DETAIL
1"=1'-0"



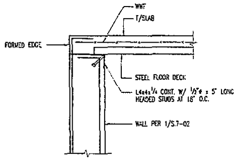
③ BRACED FRAME T/COLUMN DETAIL
1"=1'-0"



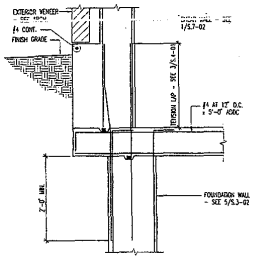
④ BRACED FRAME DETAIL
1"=1'-0"



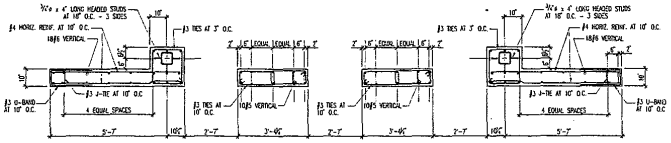
⑤ BRACED FRAME DETAIL
1"=1'-0"



⑥ SECTION
1"=1'-0"


EXTERIOR VENEER - SEE ARCH
#4 CONT.
FINISH GRADE
SHEAR WALL - SEE 1/S.7-02
TENSION LAP - SEE 3/S.4-01
#4 AT 12" O.C. x 5'-0" ADDC
2'-0" MIN.
FOUNDATION WALL - SEE 5/S.3-02

⑦ SECTION
1"=1'-0"



⑧ WALL SECTION
1/2"=1'-0"

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DANIEL CAMP
900536

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
BRACED FRAME
ELEVATION & DETAILS

CONSTRUCTION
DOCUMENTS

SCALE: AS NOTED

SHEET NO.
S.7-02

REVISION:

STRUCTURAL

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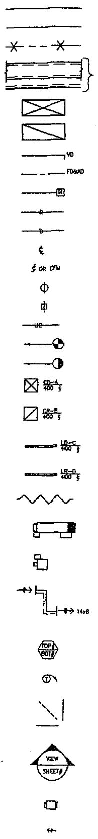
PROJECT No. 2005 078.00

HVAC SYMBOLS



	SINGLE LINE DUCTWORK OR EQUIPMENT – NEW
	SINGLE LINE DUCTWORK OR EQUIPMENT – EXISTING
	DUCTWORK TO BE REMOVED
	DUCTWORK WITH ACOUSTIC LINING
	DUCT UNDER POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
	DUCT UNDER NEGATIVE PRESSURE (RETURN, EXHAUST OR OUTSIDE AIR)
VD	VOLUME DAMPER
FD&AD	FIRE DAMPER AND ACCESS DOOR
M	AUTOMATIC DAMPER (ELECTRIC)
R	RISE IN DUCTWORK (IN DIRECTION OF AIR FLOW)
D	DROP IN DUCTWORK (IN DIRECTION OF AIR FLOW)
℄	CENTER LINE
∮ OR CFM	CUBIC FEET PER MINUTE
Φ	DIAMETER
ф	SQUARE FEET
UC	UNDERCUT DOOR
	POINT OF CONNECTION
	POINT OF DISCONNECTION
CD-A 400 ∮	TYPE A CEILING DIFFUSER 400 CFM SUPPLY AIR
CR-B 400 ∮	TYPE B CEILING DIFFUSER 400 CFM RETURN AIR
LD-C 400 ∮	TYPE C SLOT DIFFUSER 400 CFM SUPPLY AIR
LR-D 400 ∮	TYPE D SLOT DIFFUSER 400 CFM RETURN AIR
	FLEXIBLE DUCT
	VAV BOX WITH REHEAT COIL
	VAV BOX, COOLING ONLY
14x8	14x8 ACOUSTICALLY LINED RETURN TRANSFER OPENING
TOP BOT	EQUIPMENT TAG
T	TEMPERATURE SENSOR (ADJUSTABLE) TO ATC
	TURNING VANE (SEE DETAIL)
VIEW SHEET#	SECTION MARKER
	EXHAUST FAN
	AIR DIRECTION ARROW

HVAC ABBREVIATIONS

A	AMPERES
AC	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROLS
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
°C	DEGREES CENTIGRADE (CELSIUS)
CC	COOLING COIL
CCW	COUNTER CLOCKWISE
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CLG	CEILING
COND	CONDENSATE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CU IN	CUBIC INCHES
CW	CLOCKWISE
DB	DRY BULB
DX	DIRECT EXPANSION
DIAM	DIAMETER
DMPR	DAMPER
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FA	FREE AREA (SQ.FT.)
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FIN FL	FINISHED FLOOR
FLA	FULL LOAD AMPERES
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FLOOR REGISTER
FT	FEET
FV	FACE VELOCITY
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
H	HUMIDIFIER
HD	HEAD
HR	HOUR
HV	HEATING AND VENTILATING
IN	INCH OR INCHES
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB TEMPERATURE
LIN FT	LINEAR FEET
LR	LINEAR RETURN
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSAND BTU PER HOUR
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
MOT	MOTOR
MOV	MOTOR OPERATED VALVE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
P	PUMP
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
RA	RETURN AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TYP	TYPICAL
TX	TOILET EXHAUST
UON	UNLESS OTHERWISE NOTED
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
W	WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WSP	WORKING STEAM PRESSURE

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KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	06/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

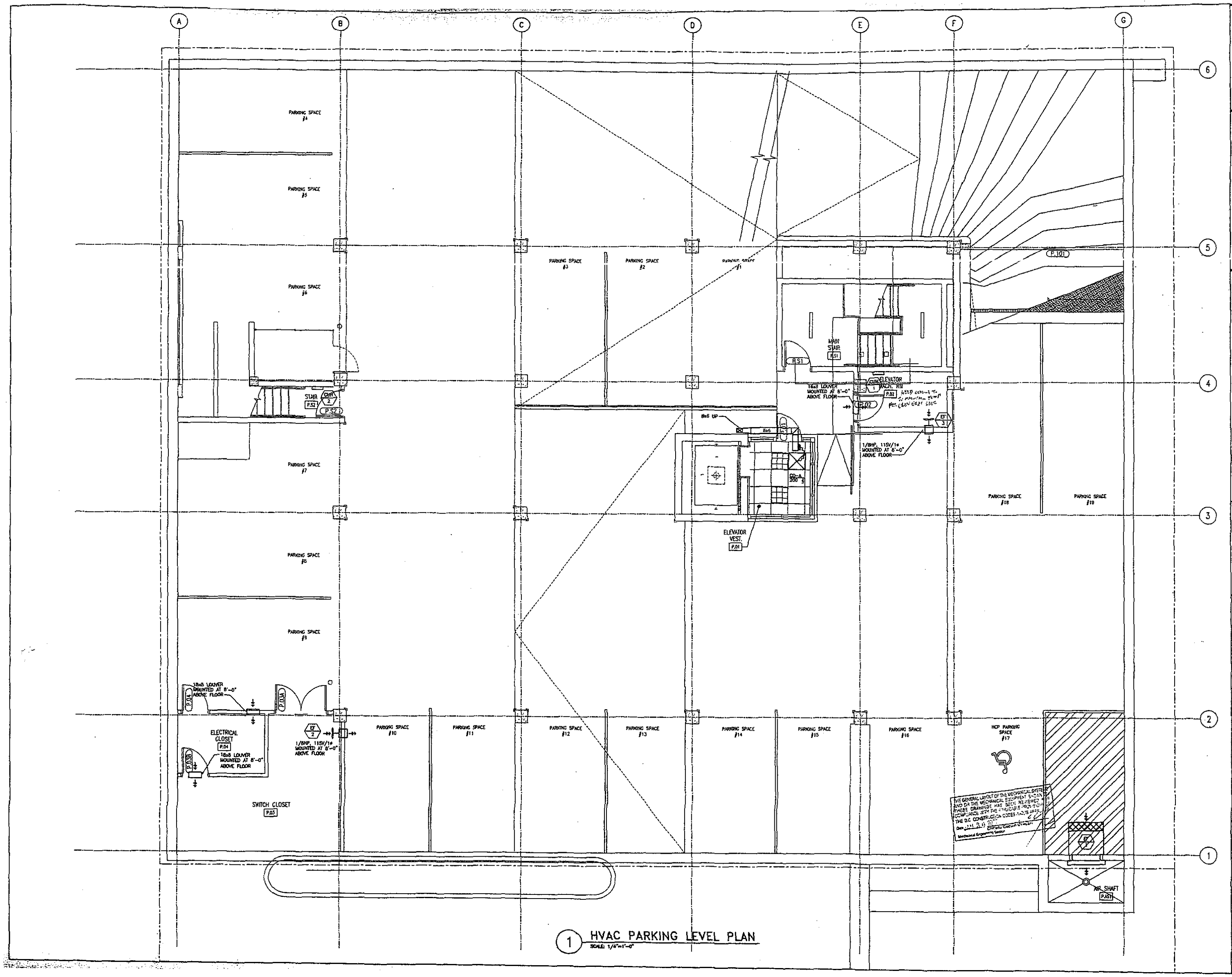
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
HVAC
SYMBOLS AND
ABBREVIATIONS
CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO. M.1-00
REVISION:

MECHANICAL



① HVAC PARKING LEVEL PLAN

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

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	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

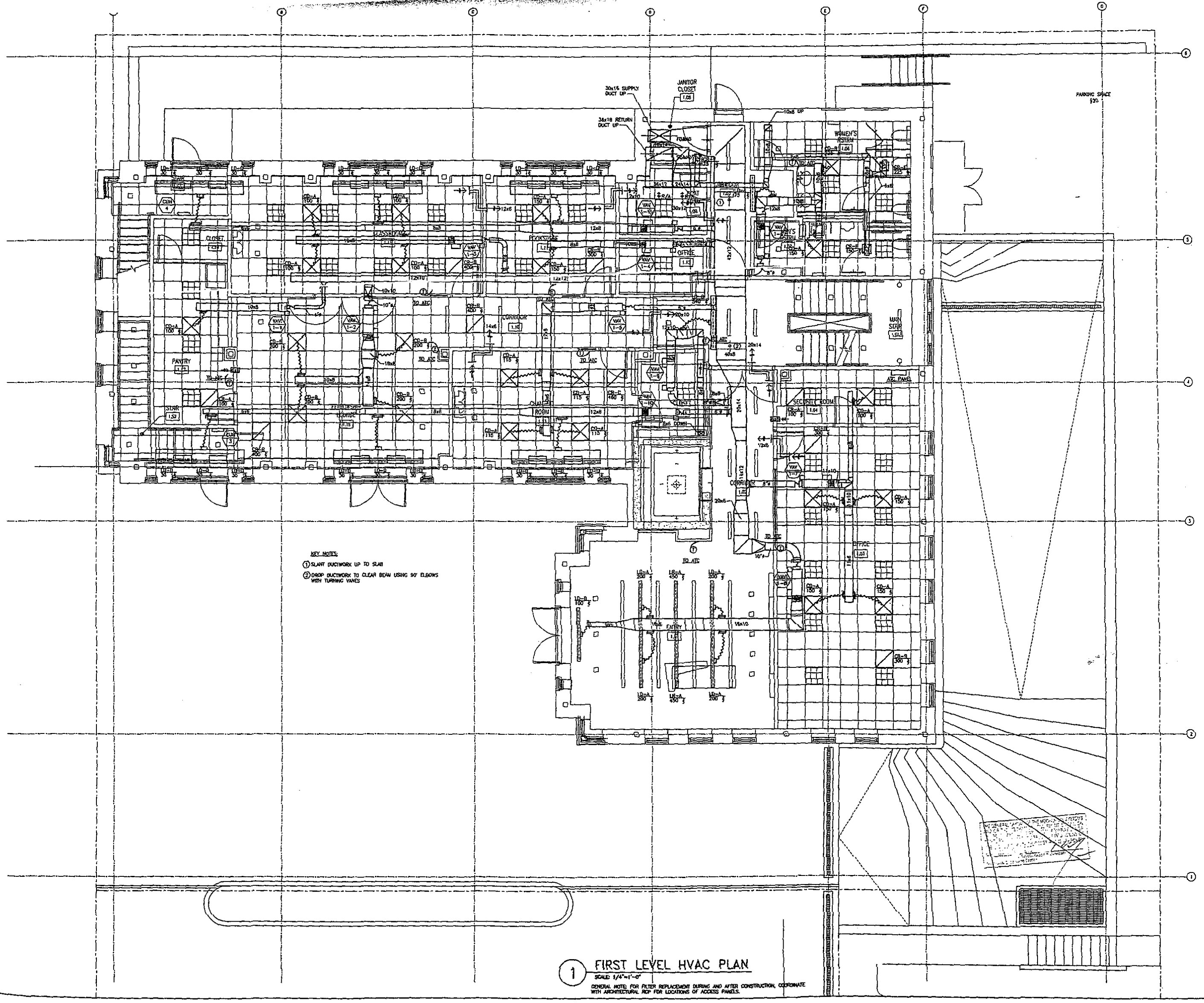
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
HVAC
PARKING LEVEL
PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. M.2-00
REVISION:

MECHANICAL



KEY NOTES:

① SLANT DUCTWORK UP TO SLAB

② DROP DUCTWORK TO CLEAR BEAM USING 90° ELBOWS WITH TURNING VANES

① FIRST LEVEL HVAC PLAN

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

GENERAL NOTE: FOR FILTER REPLACEMENT DURING AND AFTER CONSTRUCTION, COORDINATE WITH ARCHITECTURAL RCP FOR LOCATIONS OF ACCESS PANELS.

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	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

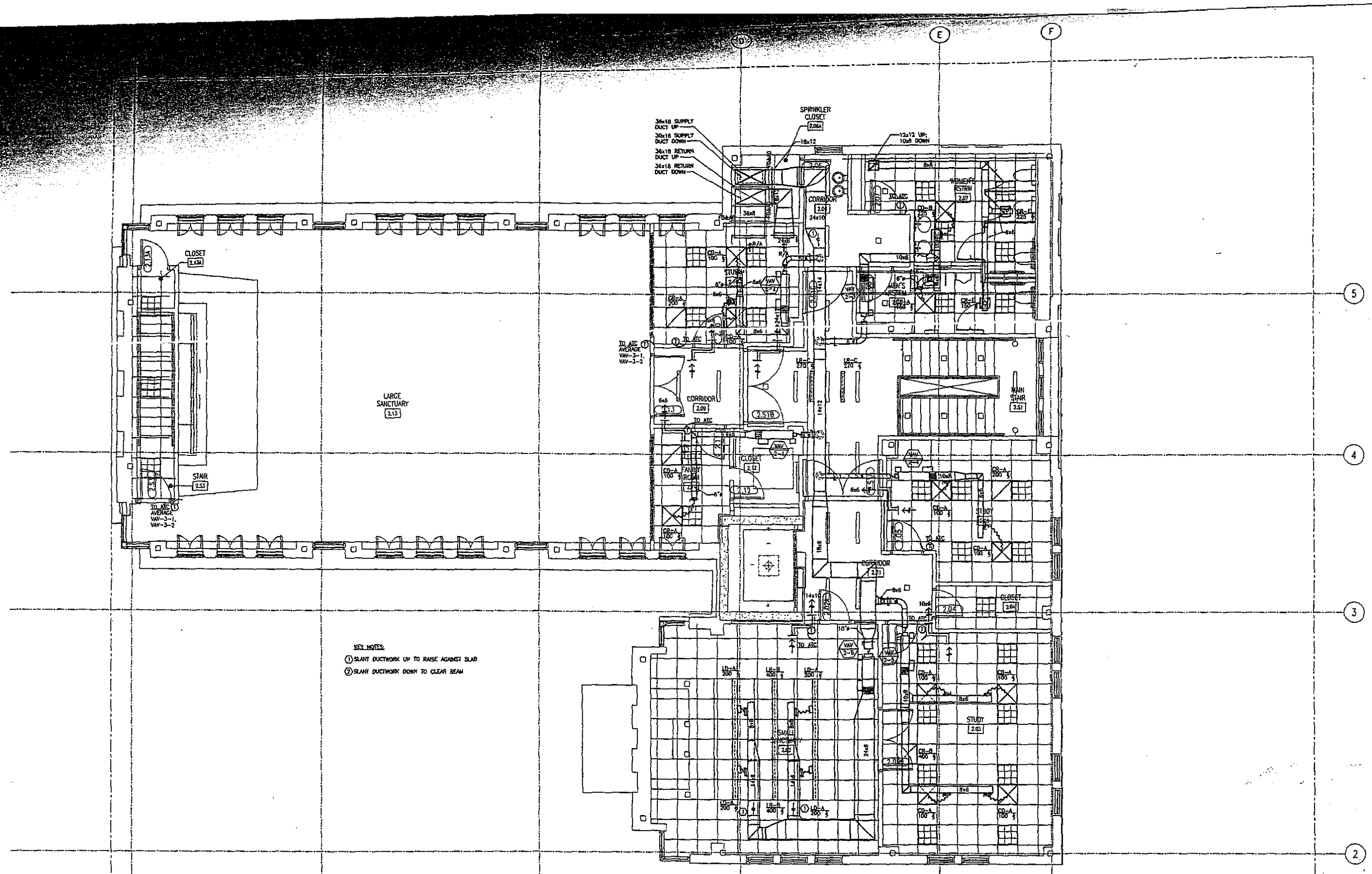
SHEET TITLE

HVAC
FIRST LEVEL
DUCTWORK PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. M.2-01
REVISION

MECHANICAL



KEY NOTES:

① SLANT DUCTWORK UP TO RAISE AGAINST SLAB

② SLANT DUCTWORK DOWN TO CLEAR BEAM

① HVAC SECOND LEVEL DUCTWORK PLAN

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

GENERAL NOTE: FOR FILTER REPLACEMENT DURING AND AFTER CONSTRUCTION, COORDINATE WITH ARCHITECTURAL RCP FOR LOCATIONS OF ACCESS PANELS.

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

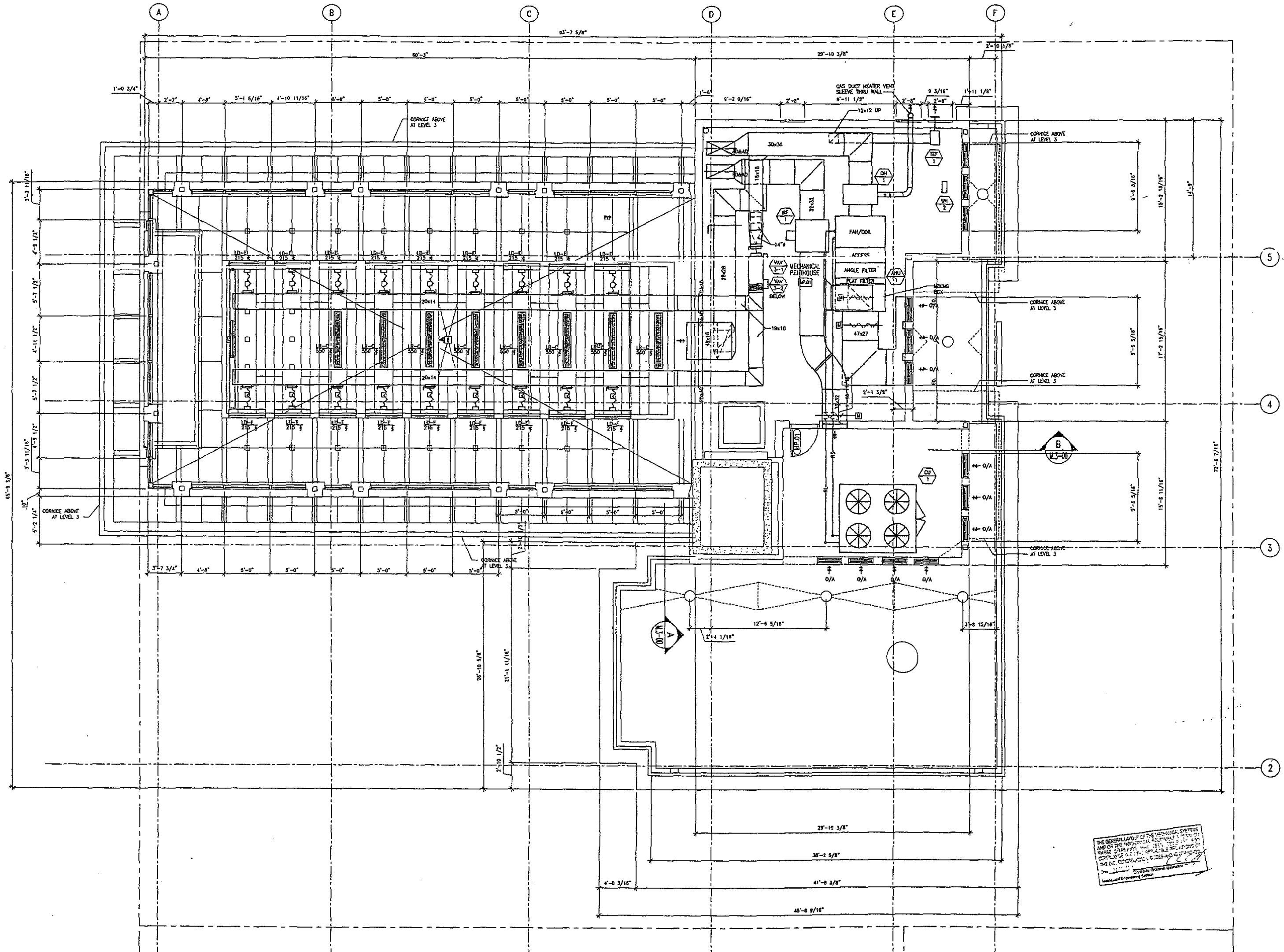
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
HVAC
SECOND LEVEL
DUCTWORK PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. M.2-02
REVISION:

MECHANICAL



THE GENERAL LAYOUT OF THE MECHANICAL SYSTEMS AND OF THE MECHANICAL EQUIPMENT [illegible] THESE DRAWINGS [illegible] APPLICABLE PROVISIONS OF THE D.C. CONSTRUCTION CODES AND IS ACCEPTED
Date [illegible] Chinedu Godwin Umeozor
Mechanical Engineering Section

① HVAC THIRD LEVEL DUCTWORK PLAN
SCALE: 1/4"=1'-0"

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

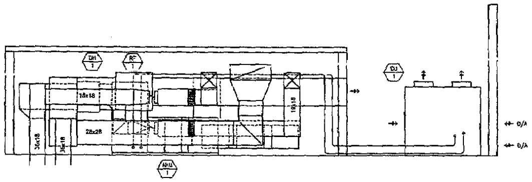
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
HVAC
THIRD LEVEL
DUCTWORK PLAN
CONSTRUCTION
DOCUMENTS

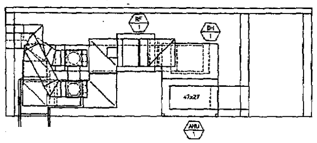
SCALE: 1/4" = 1'-0"

SHEET NO. M.2-03
REVISION:

MECHANICAL



A
M2-04
HVAC PENTHOUSE SECTION VIEW
SCALE: 1/4"=1'-0"



B
M2-04
HVAC PENTHOUSE DUCT SHAFT SECTION VIEW
SCALE: 1/4"=1'-0"

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

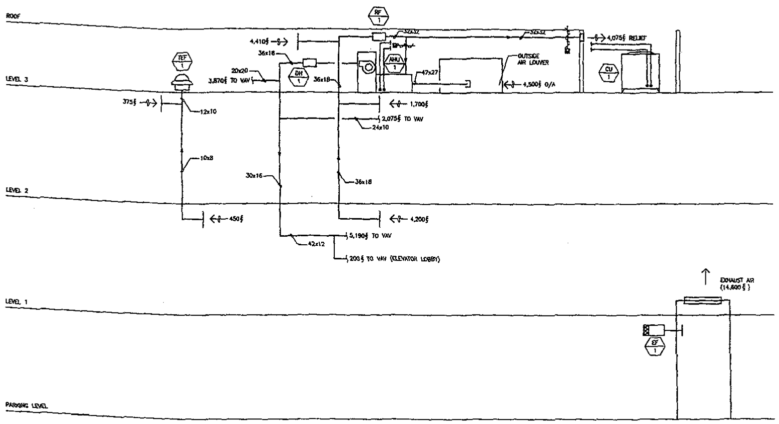
SHEET TITLE
HVAC
PARTIAL PLANS

CONSTRUCTION
DOCUMENTS

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

SHEET NO.
M.3-00
REVISION:

MECHANICAL



1 HVAC AIRFLOW RISER DIAGRAM

SCALE: NONE

NOTE: VALUES ABOVE REPRESENT SUM OF MAXIMUM VALUES FOR BALANCING PURPOSES
VALUES DO NOT REPRESENT ACTUAL BUILDING PEAK VALUE OF 9,600 CFM

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
HVAC
AIRFLOW
RISER DIAGRAM
CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO.
M.4-00

REVISION:

MECHANICAL

SPLIT SYSTEM AIR HANDLER SCHEDULE

DESIGNATION	NOMINAL CFM	OUTSIDE AIR (CFM)	TOT. EXT. S.P.(MAX.)	COOLING COIL					FAN MOTOR						REMARKS
				ENT. AIR TEMP.(db/wb)	LEAVING AIR TEMP.(db/wb)	TOTAL CAP. (MBH)	SEN. CAPACITY (MBH)	TYPE	RPM	HP	VOLT	PHASE(ø)	HERTZ(Hz)	STARTER TYPE	
AHU-1	9,600	4,500	3.5"	93/75	55/54	580.0	308.29	AF	950	10	460	3	60	VFD	VERTICAL DRAW THROUGH ARRANGEMENT
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

AIR COOLED REFRIGERANT UNIT SCHEDULE

UNIT No.	LOCATION	SERVICE	ELECTRICAL DATA			COMPRESSOR DATA						HEAT REJECTION			CONDENSER FAN				PHYSICAL CHARACTERISTICS				MANUF. MODEL #	REMARKS
			VOLTS	PHASE	HZ	No.	KW (EA)	FLA (EA)	LRA (EA)	No. OF STEPS	REFRIGERANT	EDB (°F)	LDB (°F)	CAPACITY (MBH)	No. OF FANS	HP (EA)	CFM (EA)	EXTERNAL SP (IN. H_2O)	LENGTH (FT-IN)	WIDTH (FT-IN)	HEIGHT (FT-IN)	OPERATING WT. (LBS)		
CU-1	MP.01	-	460	3	60	2	52.5	-	-	-	R-22	105	55	540	4	-	-	-	8'-4"	7'-5"	6'-8"	3309	CARRIER 38AH054-501FA	-
-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-

SEPARATED COMBUSTION DUCT FURNACE SCHEDULE

DESIGNATION	NOMINAL CFM	DUCT SIZE	PRESSURE DROP ("W.G.)	TEMPERATURE RISE (°F)	HEATING CAPACITY			ELEC. DATA		MANUF. MODEL #
					FUEL (PSIG)	INPUT (MBH)	OUTPUT (MBH)	FULL LOAD AMPS (115V)	CONTROL AMPS (24V)	
DF-1	9,500	28x28		20	NAT. GAS (1)	300	240	-	-	REZNOR [illegible]
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

1. PROVIDE WITH ELECTRONIC MODULATION GAS CONTROL (28% TO 100%).

FAN SCHEDULE

UNIT No.	SYSTEM TYPE	LOCATION	SERVICE	PERFORMANCE DATA					CONSTRUCTION DATA					FAN MOTOR DATA					VIBRATION ISOLATION			MODEL NO.
				CFM	TOTAL SP (IN.)	RPM	MIN. BHP	MAX. OV (FPM)	CLASS	ROT	DISCHARGE	ARRANG.	DRIVE	MHP	STARTER TYPE	ELECTRICAL DATA			SPECIFICATION		MIN. STATIC DEFLECTION (IN.)	
																VOLTS	PHASE	HZ	MOUNTING TYPE	BASE TYPE		
RF-1	RETURN AIR	LEVEL 3	RETURN	9,400	1.50	829	4.5	846	-	-	-	-	-	5	VFD	460	3	60	-	-	-	COOK 300 SQN-B
EF-1	EXHAUST	PARKING	GARAGE EXHAUST	14,600	0.125	462	2.25	994	-	-	-	-	-	3	MAG.	460	3	60	-	-	-	COOK 365 SQN-B
EF-2	PROPELLER	PARKING	ELEC. ROOM	844	0.1	1,150	0.19	-	-	-	-	-	-	1/8	-	115	1	60	-	-	-	COOK SWD 12
EF-3	PROPELLER	PARKING	ELEV. ROOM	722	0.1	1,050	0.19	-	-	-	-	-	-	1/8	-	115	1	60	-	-	-	COOK SWD 12
TEF-1	TOILET EXHAUST	LEVEL 3	TOILET EXHAUST	825	0.50	1,725	0.5	-	-	-	-	-	-	1/2	-	115	1	60	-	-	-	GREENHECK SFD 7.5-5A

TERMINAL BOX SCHEDULE

DESIGNATION	BOX TYPE	BOX SIZE (INLET SIZE)	AIRFLOW RANGE (CFM)		LOWEST MINIMUM CFM SETTING	MINIMUM STATIC PRESSURE ΔPS (IN W.C.)	ELECTRICAL DATA		TYPE OF CONTROLS	MANUF. MODEL #	REMARKS
			MIN.	MAX.			HEATING KW (STAGES)	VOLTAGE, PHASE			
VAV-1-1	VAV	4"ø	75	225	100	0.01	-	-	DDC	-	SIMILAR TO TRANE VCCF
VAV-1-2	VAV	10"ø	500	1400	800	0.15	6KW (3)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-3	VAV	6"ø	150	500	400	0.15	4KW (2)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-4	VAV	6"ø	150	500	300	0.17	3KW (2)	265V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-5	VAV	6"ø	150	500	300	0.02	4KW (2)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-6	VAV	8"ø	300	900	450	0.13	4KW (2)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-7	VAV	8"ø	300	900	600	0.05	5KW (2)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-8	VAV	10"ø	500	1400	900	0.19	7.5KW (3)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-9	VAV	8"ø	300	900	740	0.29	6KW (3)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-10	VAV	6"ø	150	500	270	0.13	6KW (3)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-1-11	VAV	6"ø	150	500	270	0.13	6KW (3)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-2-1	VAV	4"ø	75	225	100	0.01	1KW (1)	265V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-2-2	VAV	5"ø	125	350	200	0.05	2KW (2)	265V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-2-3	VAV	6"ø	150	500	375	0.13	3KW (2)	265V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-2-4	VAV	5"ø	125	350	200	0.05	2KW (2)	265V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-2-5	VAV	6"ø	150	500	400	0.15	3KW (2)	265V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-2-6	VAV	10"ø	500	1400	800	0.15	6KW (3)	460V, 1ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-3-1	VAV	14"ø	1,000	3,000	1,935	0.16	15KW (3)	460V, 3ø	DDC	-	SIMILAR TO TRANE VCEF
VAV-3-2	VAV	14"ø	1,000	3,000	1,935	0.16	15KW (3)	460V, 3ø	DDC	-	SIMILAR TO TRANE VCEF

1. ALL BOX CONTROLLERS SHALL BE PROVIDED WITH INTERNAL TRANSFORMERS (120V PRIMARY; 24V SECONDARY) FOR POWER SUPPLY.

CABINET UNIT HEATER SCHEDULE

UNIT No.	LOCATION	SERVICE	TYPE	ELECTRICAL DATA							MANUF. MODEL #	REMARKS
				KW	No. OF STAGES	FLA	MOTOR (HP)	VOLTS	PHASE	HZ		
CUH-1	P.02	-	WALL	1.5	1	-	1/16	277	1	60	TRANE UHAA	-
CUH-2	STAIR P.S2	-	WALL	1.5	1	-	1/16	277	1	60	TRANE UHAA	-
CUH-3	STAIR 1.S2	-	WALL	1.5	1	-	1/16	277	1	60	TRANE UHAA	-
CUH-4	STAIR 1.S3	-	WALL	1.5	1	-	1/16	277	1	60	TRANE UHAA	-
UH-1	M.02	-	HUNG	3.0	1	-	1/16	277	1	60	TRANE UHEC	HORIZONTAL DISCHARGE; SEE ELECTRICAL POWER PLAN E.3-00M FOR EXACT LOCATION
UH-2	MP.01	-	HUNG	3.0	1	-	1/16	277	1	60	TRANE UHEC	HORIZONTAL DISCHARGE

1. ALL CABINET & UNIT HEATERS TO BE PROVIDED WITH INTEGRAL DISCONNECT & THERMOSTAT

DIFFUSER SCHEDULE

DESIGNATION	SERVICE	CFM RANGE	MAX NC	TYPE	NECK SIZE (IN.)/SIZE & NO. OF SLOTS	NOMINAL OVERALL DIMENSION WxL (IN.)	MANUF. MODEL	REMARKS
CD-A	SUPPLY	0-150	30	PANEL	6"ø	24"x24"	-	SIMILAR TO TITUS PSS
CD-B	SUPPLY	151-225	27	PANEL	8"ø	24"x24"	-	SIMILAR TO TITUS PSS
CR-A	RETURN	0-250	27	PANEL	6"x6"	24"x24"	-	SIMILAR TO TITUS PAR
CR-B	RETURN	251-400	28	PANEL	8"x8"	24"x24"	-	SIMILAR TO TITUS PAR
CR-C	RETURN	401-550	28	PANEL	10"x10"	24"x24"	-	SIMILAR TO TITUS PAR
CR-D	RETURN	551-700	28	PANEL	12"x12"	24"x24"	-	SIMILAR TO TITUS PAR
CR-E	RETURN	0-250	28	PANEL	6"x6"	12"x12"	-	SIMILAR TO TITUS PAR

LINEAR DIFFUSER SCHEDULE

DESIGNATION	SERVICE	TYPE	CFM/ LN. FT.	No. OF SLOTS	SLOT SIZE (IN.)	ACTIVE LENGTH (FT.)	PLENUM SIZES			MANUF. MODEL #	REMARKS
							LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)		
LD-A	SUPPLY	SLOT	33.3	1	3/4"	6'	-	-	-	-	SIMILAR TO TITUS ML-38
LD-B	SUPPLY	SLOT	16.7	1	3/4"	6'	-	-	-	-	SIMILAR TO TITUS ML-38
LD-C	SUPPLY	SLOT	45	2	3/4"	3'	-	-	-	-	SIMILAR TO TITUS ML-38
LD-D	SUPPLY	SLOT	16.7	1	3/4"	2'	-	-	-	-	SIMILAR TO TITUS ML-38, BORDER TYPE 2, REMOVABLE CORE; INSTALLED IN FLOOR ABOVE
LD-E	SUPPLY	SIDEWALL	53.75	1	4"	4'	-	-	-	-	SIMILAR TO PRICE LBP 15A
LR-A	RETURN	SLOT	75	3	3/4"	8'	-	-	-	-	SIMILAR TO TITUS MLR-38
LR-B	RETURN	SLOT	66.7	3	3/4"	6'	-	-	-	-	SIMILAR TO TITUS MLR-38
LR-C	RETURN	SLOT	90	3	3/4"	3'	-	-	-	-	SIMILAR TO TITUS MLR-38

NOTES:

1. FINISHES SHALL BE SPECIFIED BY ARCHITECT.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL DIFFUSERS SHALL BE SUITABLE FOR THE TYPE OF CEILING CONSTRUCTION THAT ARE BEING INSTALLED IN.
4. PROVIDE LINEAR DIFFUSERS WITH PLENUM AND CORD OPERATED OPPOSED BLADE VOLUME DAMPER.
5. LINEAR DIFFUSER WIDTH IS DETERMINED BY THE # OF SLOTS. REFER TO DRAWING FOR # OF SLOTS AND ARCHITECTURAL DRAWINGS FOR EXACT LENGTH AND MOUNTING LOCATION.

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO.
W050002
DATE:
06-30-06

SHEET TITLE

HVAC
SCHEDULES

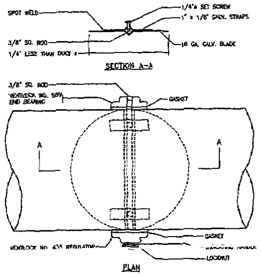
CONSTRUCTION
DOCUMENTS

SCALE: NONE

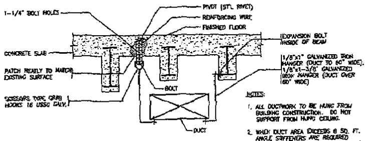
SHEET NO.
M.5-00

REVISION:

MECHANICAL



ROUND VOLUME DAMPER – UP TO 14 IN. DIAMETER, LOW PRESSURE

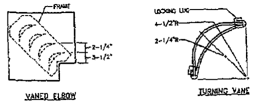

1-1/4" BOLT HOLES
PIVOT (STL. RIVET)
REINFORCING WIRE
FINISHED FLOOR
EXPANSION BOLT INSIDE OF BEAM
CONCRETE SLAB
1/8"x1" GALVANIZED IRON HANGER (DUCT TO 60" WIDE). 1/8"x1-3/8" GALVANIZED IRON HANGER (DUCT OVER 60" WIDE)
PATCH NEATLY TO MATCH EXISTING SURFACE
BOLT
SCISSORS TYPE GRIP HOOKS 16 USSG GALV.
DUCT

LONGEST DIMENSION OF DUCT	ROUND HANGERS	MAXIMUM SPACING NOTE #1	STRAP HANGERS	TRAPEZE SHELF ANGLES
UP TO 18"	8 GA. WIRE	8'-0"	1"x1/8"	1"x1"x1/8"
19" TO 30"	1/4" ROD	8'-0"	1"x1/8"	1"x1"x1/8"
31" TO 42"	1/4" ROD	8'-0"	1"x1/8"	1-1/2"x1-1/2"x1/8"
43" TO 60"	3/8" ROD	4'-0"	–	1-1/2"x1-1/2"x1/8"
61" TO 84"	3/8" ROD	4'-0"	–	2"x2"x1/8"
85" TO 96"	3/8" ROD	4'-0"	–	2"x2"x3/16"
OVER 97"	3/8" ROD	4'-0"	–	2"x2"x1/4"

NOTES:

1. ALL DUCTWORK TO BE HUNG FROM BUILDING CONSTRUCTION. DO NOT SUPPORT FROM HUNG CEILING.
2. WHEN DUCT AREA EXCEEDS 8 SQ. FT. ANGLE STIFFENERS ARE REQUIRED AROUND CIRCUMFERENCE EVERY 4'-0".
3. FOR DUCTS OVER 48" WIDE, HANGERS SHALL TURN UNDER DUCT AT LEAST 2" AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES OF THE DUCT.
4. FOR DUCTS WITH A CROSS SECTIONAL AREA OF 4 SQ. FT. OR LESS, HANGERS SHALL BE NO MORE THAN 8 FT. APART. FOR DUCTS WITH A CROSS SECTIONAL AREA OF MORE THAN 4 SQ. FT. BUT NOT OVER 8 SQ. FT., HANGERS SHALL NOT BE MORE THAN 6 FT. APART. FOR DUCTS WITH A CROSS SECTIONAL AREA MORE THAN 8 SQ. FT., HANGERS SHALL NOT BE MORE THAN 4 FT. APART. THE DISTANCES BETWEEN HANGERS SHALL BE MEASURED LINEARLY ALONG THE DUCT.

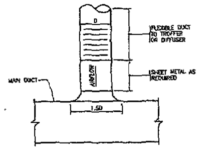
DUCT SUPPPORT FROM EXISTING CONCRETE SLAB



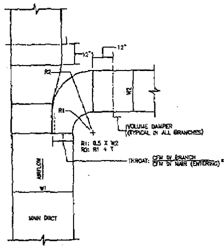
NOTES:

1. LOCKING LUGS INTERNAL WITH VANE
2. MAXIMUM UNSUPPORTED VANE LENGTH 48"
3. FRAMES – BOLTED OR RIVETED TO ELBOW
4. VANES AND FRAMES – SAME GAUGE AS ELBOW

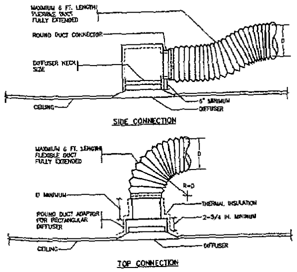
DOUBLE THICKNESS TURNING VANES FOR SQUARE ELBOWS



CIRCULAR BRANCH CONNECTION TO SINGLE OUTLET


12"
12"
R2
W2
R1
VOLUME DAMPER (TYPICAL IN ALL BRANCHES)
T
R1: 0.5 X W2
R2: R1 + T
THROAT: CFM IN BRANCH / CFM IN MAIN (ENTERING) x W1
AIRFLOW
W1
MAIN DUCT

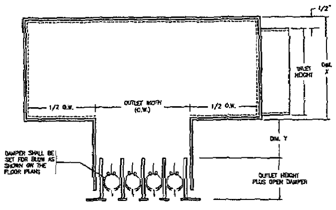
LOW PRESSURE BRANCH TAKE-OFF


MAXIMUM 6 FT. LENGTH FLEXIBLE DUCT FULLY EXTENDED
ROUND DUCT CONNECTOR
DIFFUSER NECK SIZE
D
CEILING
5" MINIMUM
DIFFUSER
MAXIMUM 6 FT. LENGTH FLEXIBLE DUCT FULLY EXTENDED
D
R=D
D MINIMUM
THERMAL INSULATION
ROUND DUCT ADAPTOR FOR RECTANGULAR DIFFUSER
2-3/4 IN. MINIMUM
CEILING
DIFFUSER

SIDE CONNECTION

TOP CONNECTION

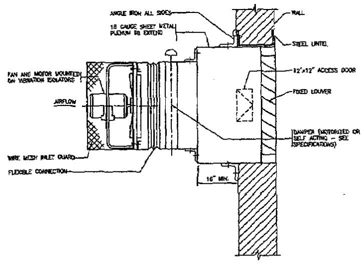
DIFFUSER CONNECTION DETAIL


1/2"
INLET HEIGHT
DIM. X
1/2 O.W.
OUTLET WIDTH (O.W.)
1/2 O.W.
DIM. Y
DAMPER SHALL BE SET FOR BLOW AS SHOWN ON THE FLOOR PLANS
OUTLET HEIGHT PLUS OPEN DAMPER

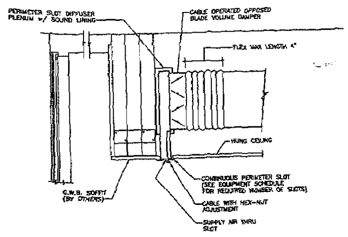
FOR OUTLET WIDTHS UP TO 6"
DIMENSION X=INLET HEIGHT + 1"
DIMENSION Y=3"

FOR OUTLET WIDTHS UP TO 8 1/2" AND UP
DIMENSION X=INLET HEIGHT + 3"
DIMENSION Y=2"

LINEAR DIFFUSER PLENUM DETAIL


ANGLE IRON ALL SIDES
WALL
18 GAUGE SHEET METAL PLENUM TO EXTEND
STEEL LINTEL
FAN AND MOTOR MOUNTED ON VIBRATION ISOLATORS
12"x12" ACCESS DOOR
FIXED LOUVER
AIRFLOW
DAMPER (MOTORIZED OR SELF ACTING – SEE SPECIFICATIONS)
WIRE MESH INLET GUARD
FLEXIBLE CONNECTION
16" MIN.

PROPELLER FAN DETAIL


PERIMETER SLOT DIFFUSER PLENUM w/ SOUND LINING
CABLE OPERATED OPPOSED BLADE VOLUME DAMPER
FLEX MAX LENGTH 4'
HUNG CEILING
CONTINUOUS PERIMETER SLOT (SEE EQUIPMENT SCHEDULE FOR REQUIRED NUMBER OF SLOTS)
G.W.B. SOFFIT (BY OTHERS)
CABLE WITH HEX-NUT ADJUSTMENT
SUPPLY AIR THRU SLOT

SLOT DIFFUSER WITH VOLUME DAMPER DETAIL

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	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
HVAC
DETAILS

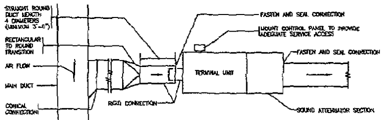
CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO.
M.6-00

REVISION:

MECHANICAL

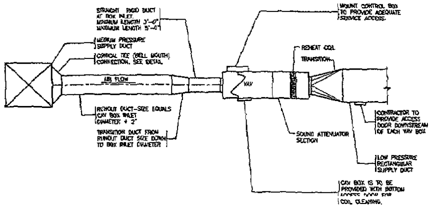

STRAIGHT ROUND DUCT LENGTH: 4 DIAMETERS (MINIMUM 3'-0")
RECTANGULAR TO ROUND TRANSITION
AIR FLOW
MAIN DUCT
CONICAL CONNECTION
RIGID CONNECTION
FASTEN AND SEAL CONNECTION
MOUNT CONTROL PANEL TO PROVIDE ADEQUATE SERVICE ACCESS
TERMINAL UNIT
FASTEN AND SEAL CONNECTION
SOUND ATTENUATOR SECTION

PLAN VIEW

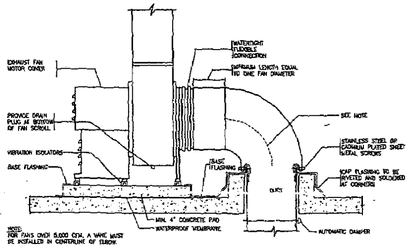
NOTES:

1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION
3. MANUFACTURER OF TERMINAL UNIT SHALL PROVIDE CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS.
4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.

TERMINAL UNIT INSTALLATION
(VAV)


STRAIGHT RIGID DUCT AT BOX INLET. MINIMUM LENGTH 3'-0" MAXIMUM LENGTH 5'-0"
MEDIUM PRESSURE SUPPLY DUCT
CONICAL TEE (BELL MOUTH) CONNECTION, SEE DETAIL
AIR FLOW
RUNOUT DUCT-SIZE EQUALS CAV BOX INLET DIAMETER + 2"
TRANSITION DUCT FROM RUNOUT DUCT SIZE DOWN TO BOX INLET DIAMETER
MOUNT CONTROL BOX TO PROVIDE ADEQUATE SERVICE ACCESS.
REHEAT COIL
TRANSITION
VAV
CONTRACTOR TO PROVIDE ACCESS DOOR DOWNSTREAM OF EACH VAV BOX
SOUND ATTENUATOR SECTION
LOW PRESSURE RECTANGULAR SUPPLY DUCT
CAV BOX IS TO BE PROVIDED WITH BOTTOM ACCESS DOOR FOR COIL CLEANING.

TERMINAL REHEAT BOX CONNECTIONS
(VAV)


EXHAUST FAN MOTOR COVER
PROVIDE DRAIN PLUG AT BOTTOM OF FAN SCROLL
VIBRATION ISOLATORS
BASE FLASHING
WATERTIGHT FLEXIBLE CONNECTION
MINIMUM LENGTH EQUAL TO ONE FAN DIAMETER
SEE NOTE
STAINLESS STEEL OR CADMIUM PLATED SHEET METAL SCREWS
BASE FLASHING
CAP FLASHING TO BE RIVETED AND SOLDERED AT CORNERS
DUCT
MIN. 4" CONCRETE PAD
WATERPROOF MEMBRANE
AUTOMATIC DAMPER

NOTE:
FOR FANS OVER 5,000 CFM, A VANE MUST BE INSTALLED IN CENTERLINE OF ELBOW.

UTILITY FAN DETAIL

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	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
HVAC
DETAILS

CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO.
M.6-01

REVISION:

MECHANICAL

ELECTRICAL SYMBOLS LIST
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

LIGHTING SYMBOLS

2'x2' RECESSED FLUORESCENT CEILING MOUNTED FIXTURE
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'
- NS = NOT SWITCHED
- NL = NIGHT LIGHT
- EM = EMERGENCY LIGHT W/BATTERY BALLAST ON EMERGENCY CIRCUIT

WALL / CEILING MOUNTED WRAP AROUND FLUORESCENT LIGHT FIXTURE
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'
- NS = NOT SWITCHED
- NL = NIGHT LIGHT
- EM = EMERGENCY LIGHT W/BATTERY BALLAST ON EMERGENCY CIRCUIT

WALL / CEILING FLUORESCENT STRIP FIXTURE
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

FLUORESCENT STRIP FIXTURE-TYPE AS NOTED EQUIPPED WIRTH 90 MINUTS EMERGENCY BACKUP BATTERY PACK AND ON EMERGENCY LIFE SAFETY CIRCUIT
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

RECESSED LINEAR FLUORESCENT FIXTURE WITH THIN PROFILE
- 'A' = FIXTURE TYPE
- EM = EMERGENCY LIGHT W/BATTERY BALLAST ON EMERGENCY CIRCUIT

RECESSED CEILING MOUNTED FIXTURE OR SPECIALTY FIXTURE
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

RECESSED CEILING MOUNTED FIXTURE OR SPECIALTY FIXTURE EQUIPPED WIRTH 90 MINUTS EMERGENCY BACKUP BATTERY PACK OR ON EMERGENCY LIFE SAFETY CIRCUIT
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

WALL MOUNTED / SCONCE LIGHT FIXTURE
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

WALL MOUNTED / SCONCE LIGHT FIXTURE EQUIPPED WITH 90 MINUTS EMERGENCY BACKUP BATTERY PACK OR ON EMERGENCY LIFE SAFETY CIRCUIT
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

ACCENT LIGHT
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

DOWNLIGHT OR WALLWASHER
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

POOL LIGHT WET AND CORROSION RESISTANT LISTED
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

EXTERIOR STEP LIGHT WET LOCATION LISTED
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

WALL MOUNTED, WEATHERPROOFED WRAP AROUND FLUORESCENT LIGHT FIXTURE.
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

EMERGENCY BATTERY LIGHT UNIT.
- 'A' = FIXTURE TYPE
- 'a' = CONTROLLED BY SWITCH 'a'

X1, X2 — CEILING MOUNTED EXIT LIGHT; TYPE 'X' - DIRECTIONAL ARROWS WHERE INDICATED - SHADED AREAS INDICATE ILLUMINATED FACE/FACES

X1 — WALL MOUNTED EXIT LIGHT; TYPE 'X' - DIRECTIONAL ARROWS WHERE INDICATED - SHADED AREAS INDICATE ILLUMINATED FACE/FACES

EXTERIOR LIGHTING FIXTURE (BRACKET TYPE)
- 'A' = FIXTURE TYPE

ROADWAY LIGHTING FIXTURE-SINGLE ARM
- 'A' = FIXTURE TYPE

ROADWAY LIGHTING FIXTURE-DOUBLE ARM
- 'A' = FIXTURE TYPE

POWER SYMBOLS

S_a^3 — SINGLE POLE SWITCH, MTD. @ 48" A.F.F. U.O.N.
- 2 = DOUBLE POLE
- 3 = THREE-WAY
- 4 = FOUR-WAY
- a = CONTROLLING OUTLET 'a'
- D = DOOR
- X = KEY OPERATED
- MO = MOMENTARY CONTACT
- P = PILOT LIGHT
- TIMER = TIME SWITCH

S_T 2P30A — DISCONNECT SWITCH - TOGGLE TYPE WITH WITH TERMAL OVERLOAD 250V OR 277V, HP RATED, MTD @ 48" AF.F. U.O.N. TWO POLES, 30A RATED IN NEMA 1 ENCLOSURE.

D A 450 — WALL DIMMER - TYPE 'A'. STANDARD SHALL BE 1200W MIN., NUMBER INDICATES WATTAGE RATING, MTD. @ 48" A.F.F. U.O.N.

OS — OCCUPANCY SENSOR, CEILING MOUNTED

OSH — OCCUPANCY SENSOR W/OVERRIGHT SWITCH - SINGLE MODULE, WALL MOUNTED @ 48" A.F.F. UN.O.N.

PC — PHOTO CONTROL SWITCH

TC 'A' — TIME CLOCK - TYPE 'A'

LK — LIGHTING CONTACTOR,

K — SINGLE CONTACTOR OR RELAY UNIT.

DB — PUSH-BUTTON STATION WALL MOUNTED @ +48" A.F.F. (UON)
- DB = DOOR BELL ACTIVATION
- DR = DOOR LOCK RELEASE
- H = HOLD UP
- K = KEY OPERATED
- P = PANIC BUTTON

SINGLE RECEPTACLE, 20A, 125V, 2P, W/G. WALL MTD. @ 18" A.F.F. U.O.N.

TP — 15A OR 20A, 125V, 2P W/G. DUPLEX RECEPTACLE - FLUSH WALL MOUNTED WALL MTD. @ 18" A.F.F. U.O.N.
- TP = TAMPER PROOF
- XP = EXPLOSION PROOF
- GFI = GROUND FAULT INTERRUPTER
- WP = WEATHER PROOF
- XP = EXPLOSION PROOF
- CL = CEILING MOUNTED

15A OR 20A, 125V QUADRUPLEX RECEPTACLE - FLUSH WALL MOUNTED WALL MTD. @ 18" A.F.F. U.O.N.

15 OR 20A, 125V ISOLATED GROUND, DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED, CONTROLLED FROM WALL SWITCH 'a' WALL MTD. @ 18" A.F.F. U.O.N.

15A OR 20A, 125V DUPLEX RECEPTACLE FLUSH WALL MOUNTED. GFI TYPE.

15A OR 20A, 125V ISOLATED GROUND QUADRUPLEX RECEPTACLE FLUSH WALL MTD. @ 18" A.F.F. U.O.N.- NUMBER INDICATES QUANTITIES OF IG TYPE RECEPTACLES.
- 1 = ONE DUPLEX IG TYPE & ONE DUPLEX STANDARD G. RECEPTACLE
- 2 = QUADRUPLEX IG TYPE RECEPTACLES.

EM — 15A OR 20A, 125V EMERGENCY DUPLEX RECEPTACLE. FLUSH WALL MOUNTED

EWC — SINGLE RECEPTACLE - FLUSH WALL MOUNTED @ 18" A.F.F. U.O.N.
- FM = FLOOR MACHINE
- EWC = ELECTRIC WATER COOLER
- XR = X-RAY

C — FLUSH FLOOR MOUNTED JUNCTION BOX OR POKE-THRU FOR ELECTRIFIED FURNITURE POWER FEED - LETER INDICATES ADDITIONAL FEED
- C = VOICE/DATA FEED

A — SPECIAL PURPOSE RECEPTACLE - FLUSH WALL MTD. @ 18" A.F.F. U.O.N.
- A = INDICATES NEMA TYPE

11-30R — 3 PHASE SPECIAL PURPOSE RECEPTACLE. NEMA TYPE AS INDICATED

15A OR 20A, 125V DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED.

15A OR 20A, 125V QUADRUPLEX RECEPTACLE FLUSH FLOOR MOUNTED.

A — SPECIAL PURPOSE RECEPTACLE - FLUSH FLOOR MOUNTED
- A = INDICATES NEMA TYPE

15A OR 20A, 125V DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED. WITH COMBINATION VOICE/DATA OUTLET

15A, 125V PLUG-IN SURFACE METAL RACEWAY - LETTER INDICATES TYPE - OR WITH SPECIAL PURPOSE RECEPTACLES WHERE INDICATED

PEDESTAL MOUNTED 20A, 125V DUPLEX RECEPTACLE

PEDESTAL MOUNTED 20A, 125V QUADRUPLEX RECEPTACLE

PEDESTAL MOUNTED JUNCTION BOX OR POKE-THRU FOR ELECTRIFIED FURNITURE POWER FEED.

A — PEDESTAL MOUNTED SPECIAL PURPOSE RECEPTACLE LETTER INDICATES TYPE

PEDESTAL MOUNTED COMBINATION VOICE/DATA & POWER OUTLET

J — CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION

J — FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION

J — FLUSH FLOOR MOUNTED JUNCTION BOX

PULLBOX

DIMMER ZONE HOMERUN

P-5,3,1 — HOMERUN-NUMERAL WHERE USED INDICATES DESIGNATED PANEL AND CIRCUIT NUMBER FOR REFERENCE ONLY. WHERE CONDUIT IS NOT SPECIFIED USE AC OR MC CABLE FOR APPLICATION.
- 2#12+1#12G-3/4"C FOR ONE CKT. HOMERUN IN CONDUIT, U.O.N.
- 3#12+1#12G-3/4"C FOR TWO CKT. HOMERUN IN CONDUIT, U.O.N.
- 4#12+1#12G-3/4"C FOR THREE CKT. HOMERUN IN CONDUIT, U.O.N.

#10 — WIRING IN 3/4"C min. OR "AC" CABLE CONCEALED IN WALLS OR ABOVE CEILING. CROSSMARKS INDICATE NUMBER OF CONDUCTORS: 2 -PHASE CONDUCTORS AND 1- SHARED NEUTRAL CONDUCTOR. NUMBER INDICATES WIRE SIZE OF CURRENT CARRYING CONDUCTORS. RUNS WITHOUT WIRE SIZE CONTAIN: 3 #12 AWG IN GROUNDED PER NEC RACEWAY.

#10 — BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND/OR ABOVE CEILINGS. CROSSMARKS INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. FLAGGED CROSSMARK INDICATES ISULATED GROUNDING CONDUCTOR. SYMBOL INDICATES 2-PHASE CONDUCTORS, 1-SHARED NEUTRAL CONDUCTOR AND 1- INSULATED GROUND CONDUCTOR IN 3/4"C min OR OR "MC" CABLE WITH INSULATED GROUND CONDUCTOR. RUN WITHOUT WIRE SIZE NUMBER CONTAINS: ALL INSULATED 3 #12 AWG + #12 G.

WIRING IN 3/4"C min. OR "MC" WITH ISOLATED GROUND CONDUCTOR + INSULATED GROUND CONCUCTOR, CONCEALED IN WALLS OR ABOVE CEILING. CROSSMARKS INDICATE NUMBER OF CONDUCTORS, CROSSMARK WITH DOT INDICATES INSULATED/ISOLATED GROUND WIRE SAME SIZE AS CURRENT CARRYING CONDUCTORS CONNECTED TO ISOLATED GROUND BUS IN PANEL. FLAGGED CORSSMARK INDICATES INSULATED GROUNDING CONDUCTOR REQUIRED PER NEC. FOR MULTI CIRCUIT RUN AS SHOWN: 3 -PHASE CONDUCTORS, 3 -NEUTRAL CONDUCTORS AND 2 -INSULATED GROUND CONDUCTORS), RUN WITHOUT SIZE NUMBER CONTAINS ALL INSULATED: 6 #12 AWG. + #12 IG + #12 G. IN METAL RACEWAY.

UP — CONDUIT OR RECEWAY TURNING UP

DN — CONDUIT OR RACEWAY TURNING DOWN

CONDUIT STUB-UP WITH FLEXIBLE EQUIPMENT CONNECTION

FLEXIBLE EQUIPMENT CONNECTION

CAPPED CONDUIT

CONDUIT WITH BUSHING

CONDUIT WITH GROUNDING BUSHING

GROUND CONNECTION

SPLICE (JUNCTION) OF PATHS OF CONDUCTORS OR CABLES.

CROSSING PATHS OF CONDUCTORS OR CABLES. (NO CONNECTIONS)

T — TRANSFORMER

MOTOR CONTROLLER

100/3 — COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED

30/3 — UNFUSED DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED

100/60/3 — FUSED DISCONNECT SWITCH; SWITCH AMPS/FUSE AMPS/ # OF POLES, VOLTAGE RATING AS REQUIRED

100/60 CB — ENCLOSED CIRCUIT BREAKER TRIP AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED
- NA = NON-AUTOMATIC

SURFACE MOUNTED 208/120V PANELBOARD

FLUSH MOUNTED 208/120V PANELBOARD

SURFACE MOUNTED 480/277V PANELBOARD

FLUSH MOUNTED 480/277V PANELBOARD

SURFACE MOUNTED POWER DISTRIBUTION PANELBOARD

X — CONTACTOR PANEL

PODIUM MOUNTED A/V, TELECOM, AND POWER RECEPTACLES

VOICE/DATA/P.A. SYMBOLS

VOICE & DATA OUTLET WITH 3/4" CONDUIT IN DEMISING WALLS TERMINATED IN A 90 DEG. BEND 6" INTO ACCESSIBLE CEILING

VOICE OUTLET WITH 3/4" CONDUIT IN DEMISING WALLS TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING
- P = PUBLIC MTD. @ +44"AFF
- F = FAX

DATA OUTLET WITH 3/4" CONDUIT IN DEMISING WALLS TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING

TV — TELEVISION OUTLET WITH 3/4"C IN DEMISING WALLS TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING

AV — AUDIO VISUAL OUTLET - FLUSH WALL MOUNTED

SURFACE MOUNTED TELEPHONE TERMINAL CABINET

FLUSH MOUNTED TELEPHONE TERMINAL CABINET

CLOCK SYSTEMS

C — WALL MOUNTED CLOCK OUTLET

MC — MASTER CLOCK

C — CEILING MOUNTED CLOCK OUTLET

WALL MOUNTED CLOCK
- D = DOUBLE FACE

CEILING MOUNTED CLOCK
- D = DOUBLE FACE

TC — ELAPSED TIME CLOCK - WALL MOUNTED

TM — ELAPSED TIME CLOCK CONTROL

DT — DIGITAL ELAPSED TIME CLOCK

SINGLE LINE DIAGRAM SYMBOLS

ATS 100A 480,4P — ATS = AUTOMATIC TRANSFER SWITCH
- MTS = MANUAL TRANSFER
- POLES AND RATING AS NOTED

M — MOTOR

G — GENERATOR

GROUND CONNECTION

100/100 — FUSED SWITCH 100 AMP SWITCH - 90 AMP TYPE 'FA' FUSE

100 — UNFUSED SWITCH - 100 AMP SWITCH

100/90 — CIRCUIT BREAKER - MOLDED CASE TYPE 100 AMP FRAME / 90 AMP TRIP
- LT = LONG TIME SETTING
- ST = SHORT TIME SETTING
- I = INSTANTANEOUS SETTING

M — DIGITAL MULTIMETER

CB3 — MOLDED CASE CIRCUIT BREAKER IN SWICTHBOARD OR POWER PANEL

CB3 — EQUIPPED SPACE FOR MOLDED CASE CIRCUIT BREAKER

400/5 3 — CURRENT TRANSFORMER NUMBER AND RATIO AS INDICATED

A — CONTROL INDICATING LAMP "AMBER"
- A = AMBER
- R = RED
- G = GREEN

FIRE ALARM SYSTEM

S F — SPACE SMOKE DETECTOR
- F = MOUNTED UNDER RAISED FLOOR

R — REMOTE SPACE SMOKE DETECTOR ALARM LIGHT - WALL MOUNTED

D — DUCT SMOKE DETECTOR

H F — THERMAL DETECTOR RATE-OF-RISE
- F = FIXED TEMPERATURE

W — SPRINKLER WATER FLOW SWITCH

T — SPRINKLER TAMPER SWITCH

4 PS L — SPRINKLER PRESSURE SWITCH, NUMBER INDICATES QUANTITIES
- H = HIGH PRESSURE
- L = LOW PRESSURE

SD — MOTORIZED SMOKE DAMPER, FBO

F — FIRE ALARM PULL STATION

F — COMBINATION FIRE ALARM HORN AND STROBE LIGHT UNIT - FLUSH WALL MOUNTED

F C — FIRE ALARM HORN - FLUSH WALL MOUNTED
- C = CEILING MOUNTED

B — FIRE ALARM BELL - FLUSH WALL MOUNTED

F — FLUSH WALL MOUNTED STROBE LIGHT UNIT

DH — DOOR HOLDERS

DR — ELECTROMAGNETIC DOOR RELEASE

FAP or FAAP — FIRE ALARM ANNUNCIATOR PANEL

FACP — FIRE ALARM CONTROL PANEL

ESR — ELEVATOR CONTROLLER

DSCT — DIGITAL ALARM COMMUNICATOR TRANSMITTER

FATC — FIRE ALARM SYSTEM TERMINATION CABINET

FT — FIRE ALARM SYSTEM TERMINATION BOX

REMOTE LED: MOUNTED IN THE VISUAL AND MANUALLY ACCESSIBLE LOCATION.

ABBREVIATIONS
(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

A	AMPERE
AC	ABOVE COUNTER
ACB	AIR CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALM	ALARM
AMM	AMMETER
ARF	ABOVE RAISED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
CAB	CABINET
CAT	CATALOG
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CNTL	CONTROL
CO	CONDUIT ONLY
COMM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
CUH	CABINET UNIT HEATER
DB	DECIBEL
DEG	DEGREE
DF	DRINKING FOUNTAIN
°C	DEGREE CELSIUS
°F	DEGREE FAHRENHEIT
DIA	DIAMETER
DN	DOWN
DP	DISTRIBUTION PANEL BOARD
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER or EM	EMERGENCY
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
FA	FIRE ALARM
FAP	FIRE ALARM PANEL
FCU	FAN COIL UNIT
FDR	FEEDER
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FRZ	FREEZER
FT	FEET OR FOOT
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HZ	HERTZ
IC	INTERRUPTING CAPACITY
JB	JUNCTION BOX
KCM	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LTG	LIGHTING
[illegible]	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFS	MAIN FUSED SWITCH
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
MUFS	MAIN UNFUSED SWITCH
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NP	NETWORK PROTECTOR
NTS	NOT TO SCALE
OC	ON CENTER
PB	PULL BOX
PBS	PUSH BUTTON SWITCH
PHC	PIPE HEATING CABLE
Ø	PHASE
PNL	PANEL
PS	PRESSURE SWITCH
PWR	POWER
RCS	REMOTE CONTROL SWITCH
RDCP	REMOTE DATA COLLECTION PANEL
(RE)	RELOCATED EXISTING
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RM	ROOM
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SECT	SECTION
SIG	SIGNAL
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SW	SWITCH
SWBD	SWITCHBOARD
TB	TROUBLE BELL
TEL	TELEPHONE
TEMP	TEMPERATURE
THERM	THERMOSTAT
TP	TAMPER PROOF
TRANSF	TRANSFORMER
TS	TAMPER SWITCH
TV	TELEVISION
TYP	TYPICAL
UH	UNIT HEATER
UNF	UNFUSED
UON	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
VM	VOLTMETER
W	WATT
WFS	WATER FLOW SWITCH
KWH	WATT HOUR METER
WP	WEATHERPROOF
WT	WATERTIGHT
XP	EXPLOSION PROOF

ELECTRICAL GENERAL NOTES

A. GENERAL

1. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AIA DOCUMENT A201, LATEST EDITION, AND INCLUDED SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
2. CODES: COMPLY WITH ALL APPLICABLE CODES, LAWS, REGULATIONS AND ORDINANCES GOVERNING OR RELATING TO ANY PORTION OF THIS WORK. NEC 1996, IBC 2000, BOCA 2004, IPC 2000, IMC 2000, IFC 2000 AND IECC 2000.
   ANY WORK DONE BY THE CONTRACTOR CAUSING VIOLATION OF THE ABOVE CODES SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.
3. BIDDERS ARE CAUTIONED TO VISIT THE SITE PRIOR TO THE PREPARATION OF THEIR BID.
4. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE, THAT A CAREFUL EXAMINATION OF ALL DOCUMENTS, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH ALL CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID.
   LATER CLAIMS SHALL NOT BE MADE FOR LABOR; EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.
5. MINOR DEVITION FROM THE DRAWINGS MAY BE MADE TO ACCOMPLISH THIS WORK. CHANGES, WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL. THE CONTRACTOR MAY MODIFY EQUIPMENT LOCATION, CONDUIT ROUTE TO AVOID OBSTRUCTION. THE CONTRACTOR MAY ALTER PROPOSED WORK; RELOCATE CIRCUIT, JUNCTION BOX OR OTHER MINOR EQUIPMENT TO COMPLETE WORK. ALL OF SUCH WORK SHALL BE FORESEEN AND INCLUED IN THE PRICE OF THE PROPOSAL.
6. THE OWNER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK IF IN HIS OPINION IT IS NOT IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENT.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE AND CONDITIONS.
8. MAINTAIN ACCESSIBILITY REQUIREMENTS, HEADROOM AND WORKING SPACE AROUND EQUIPMENT FOR OPERATION, MAINTENANCE AND REPAIRS.
9. SECURE ALL SUPPORTS TO BUILDING STRUCTURE. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RECEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH WALL OR AT RIGHT ANGLES TO WALLS.
10. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES. PROVIDE PULL BOXES EVERY 100 FT FOR STRAIT RUN OR AT EVERY 270° OF TOTAL CONDUIT BEND. COORDINATE LOCATION WITH OTHER TRADES. ALL JUNCTION AND PULL SHALL BE CONCEALED UNLESS OTHER WISE INDICATED..
11. SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
12. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
13. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. EMPTY RACEWAYS OVER 10 FT LONG SHALL BE FURNISH WITH FISH WIRE.
14. CONNECT RIGID CONDUIT TO MOTOR TERMINAL BOXES WITH FLEXIBLE CONDUIT EXTENSION (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
15. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. JUNCTION BOXES DEDICATED FOR EMERGENCY LIGHTING SHALL ALLOW FOR EMERGENCY AND NORMAL WIRING TO ENTER THE SAME BOX. EACH CIRCUIT SHALL BE PROPERLY TAGGED.
16. WIRE COLOR CODING : AS PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 8") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTANTLY FOR THE ENTIRE PROJECT.
17. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
18. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET:

RECEPTACLES AND TELEPHONES:	18"
OVER WORK BENCHES - KITCHEN	44"
OVER WORK BENCHES - GENERAL	42"
WALL SWITCHES	48"
WALL FIXTURES	84"
MOTOR CONTROLLERS	30"-72"
GONGS AND HORNS, CLOCKS	90"
FIRE ALARM STATIONS	48"
STROBE LIGHTS	80" AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER).

   EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE. INSTALLATION HEIGHT SHALL CONFORM TO ADA CODE REQUIREMENTS.
19. FIRE STOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION. SEAL OPENING THROUGH PARTITIONS, WALLS AND FLOORS WITH APPROVED FIREPROOFING MATERIAL.
20. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OF CONDUIT AND EQUIPMENT.
   PROVIDE EQUIPMENT CURBS WHERE REQUIRED.
21. THE CONTRAOCTOR SHALL INCLUDE IN HIS COST ALL CUTING, REPAIRES AND PATCHING OF THE BUILDING WALLS PENETRATIONS OR OTHER MATERIALS PENETRATIONS IN THE AREA OF WORK. THE CONTRACTOR SHALL RESTORE THESE AREAS TO THE CONDITIONS REQUIRED BY THE APPLICABLE CODES AND ARCHITECTURAL SPECIFICATION.
22. ALL MATERIALS AND EQUIPMENT FOR THIS WORK SHALL BE NEW, OF FIRST CLASS QUALITY AND APPROVED UNDER APPLICABLE STANDARDS. ALL MATERIALS FOR WHICH U.L. LABELING IS ESTABLISHED SHALL BEAR THE U.L. LABEL UNLESS OTHERWISE NOTED.
23. SUBMIT MANUFACTURER CERTIFICATION THAT PRODUCT CONFORMS WITH NEMA, ANSI AND FEDERAL SPECIFICATIONS. FAILURE TO SUBMIT THIS CERIFICATION VOIDS APPROVAL OF THE SHOP DRAWINGS SUBMITTALS.
24. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
25. TEST: UPON COMPLETION OF WORK AND ADJUSTMENT OF EQUIPMENT, TEST ALL SYSTEMS FOR SHORT CIRCUIT, GROUND AND FUNCTIONAL PERFORMANCE.
26. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED AND TESTED THE EQUIPMENT AND AFFECTED SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVALS.
27. PROVIDE AS BUILT DRAWINGS TO OWNER AT THE END OF THE CONSTRUCTION.
28. KEEP ALL WORK AREAS CLEAN. CLEAN ALL EQUIPMENT, ETC., PRIOR TO FINAL PAINTING AND COMPLETION OF PROJECT.
29. THE CONTRACTOR SHALL PREPARE AND SUBMIT A COMPLETE SHORT CIRCUIT AND PROTECTIVE COORDINATION STUDY WITHIN 30 CALENDAR DAYS FOLLOWING THE COMPLETE APPROVAL OF CIRCUIT PROTECTIVE DEVICES, INCLUDING CIRCUIT BREAKERS, FUSES AND PROTECTIVE RELAYS.
30. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWER COMPANY AND OBTAIN WRITTEN CONFIRMATION OF THE AVAILABLE FAULT CURRENT FOR THE SITE. CIRCUIT BREAKER A.I.C. RATING SHALL BE INCREASED OR DECREASED FROM FROM SPECIFIED A.I.C. BASED ON THE TOTAL FAULT CURRENT AT THE LINE SIDE OF THE SERVICE EQUIPMENT. SUBMIT INFORMATION TO ENGINEER FOR APPROVAL OF REVISED RATING. CIRCUIT BREAKERS SHALL BE RATED AT OR ABOVE FAULT CURRENT.

B. SCOPE OF WORK

1. SCOPE OF WORK SHALL CONSIST OF PROVIDING (FURNISHING AND INSTALLING) FIRST CLASS WORKING SYSTEMS. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLTION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL ELECTRICAL SAFETY CODE, NFPA AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED O THE DRAWINGS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP, MATERIAL AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF THE FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF ACTUAL OCUPANCY OF SPACE BY OWNER, WHICHEVER DATE IS EARLIER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REAPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRES OR REPLACEMENTS IN INSTALLED EQUIPMENTS.
3. THE CONTRACTOR SHALL APPLY, FILE, PAY ALL REQUIRED FEES AND OBTAIN ALL PERMITS AND LICENSES NECESSARY TO CARRY OUT THIS WORK. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES AS NECESSARY EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL APPLICABLE REGULATIONS.

C. COORDINATION

1. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. LIGHT SWITCH BOXES ARE SUBJECT TO CHANGE AND SHALL BE INSTALLED ON THE LOCK SIDE OF THE DOOR. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO THE OWNER.
2. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVERS).
3. THE LIGHTING FIXTURE SCHEDULE SHOWN ON ENGINEERING DRAWINGS ARE FOR INFORMATION PURPOSES ONLY.
   LIGHTING FIXTURES SHOWN ARE THOSE SELECTED BY ARCHITECT. ENGINEER SHALL NOT BE RESPONSIBLE FOR INFORMATION SHOWN RELATED TO FIXTURE SELECTION AND OVERALL LIGHTING DESIGN. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION
4. THE ELECTRICAL CONTRACTOR SHALL CONSULT PLANS OF ALL OTHER TRADES AND COORDINATE ALL INSTALLATIONS WITH RELATED AND ADJOINING WORK. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR FOR CONSTRUCTION TYPE, HEADROOM, ROOM FINISHES, CEILINGS, RELATED DETAILS AND DIMENSIONS.
5. ALL DIMENSIONS ARE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
6. OPENINGS IN NEW BUILDING STRUCTURE FOR PASSAGE OF CONDUITS/ CABLES SHALL NOT BE CUT UNTIL THE CONTRACTOR HAS ASKED FOR AND RWCEIVED WRITTEN APPROVAL FROM THE ARCHITECT.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EQUIPMENT, FIXTURE AND WIRING DEVICES LOCATION INCLUDING TELEPHONE AND DATA OUTLETS, MOUNTING HEIGHTS WITH THE ARCHITECTURAL AND ENGINEERING DRAWINGS OF ALL TARDES. SHOULD ANY CONFLICTS BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY ENGINEER AND REQUEST CLARIFICATION PRIOR TO INSTALLATION. IF THE WORK IS NOT COORDINATED ANY REMEDIAL WORK SHALL BE REDONE AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, REQUESTING A RULING SHOULD ANY M/P/E CONFLICTS ARISE. THE ENGINEER SHALL HAVE THE FINAL WORD.
9. CONTRACTOR SHALL VERIFY WIRE SIZES, C/B AND FUSE RATINGS FOR ALL HVAC EQUIPMENT SHIPPED TO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ONLY DISCREPANCIES EFFECTING THE WORK PRIOR TO PROCEEDING.
10. HORSEPOWER RATINGS INDICATED ON DRAWING MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS OF THE MOTOR BEING INSTALLED.
12. THE CONTRACTOR SHALL NOTE U.L. LABELS ON PACKAGED OF MECHANICAL EQUIPMENT. IF U.L. LABEL ON MECHANICAL EQUIPMENT TO ACTUALLY BE INSTALLED CALLS FOR THE OVERCURRENT PROTECTIVE DEVICE TO BE FUSED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FUSED DISCONNECT SWITCH WITH PROPER SIZE FUSES AT THE SWITCH LOCATION INDICATED ON THE DRAWINGS AT NO ADDITIONAL CHARGE TO THE OWNER.
13. COORDINATE INSTALLATION OF PULL BOXES OR JUNCTION BOXES WITH LOCATION OF THE LIGHTING FIXTURES. DO NOT INSTALL ANY BOX DIRECTLY ABOVE LIGHTING FIXTURE OR ANY OTHER SIMILAR INACCESSIBLE PLACES.
14. ALL WIRING SHOWN ON PLANS SHALL BE #12 AWG UNLESS OTHERWISE NOTED EXCEPT FOR 120 VOLT RUNS LONGER THAN 100 FEET PROVIDE #10 AWG AND FOR 277 VOLT RUNS LONGER THAN 150' PROVIDE #10 AWG.

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SEAL
RICHARD R. SCHAEFER
6/30/06

KEYPLAN

REVISIONS

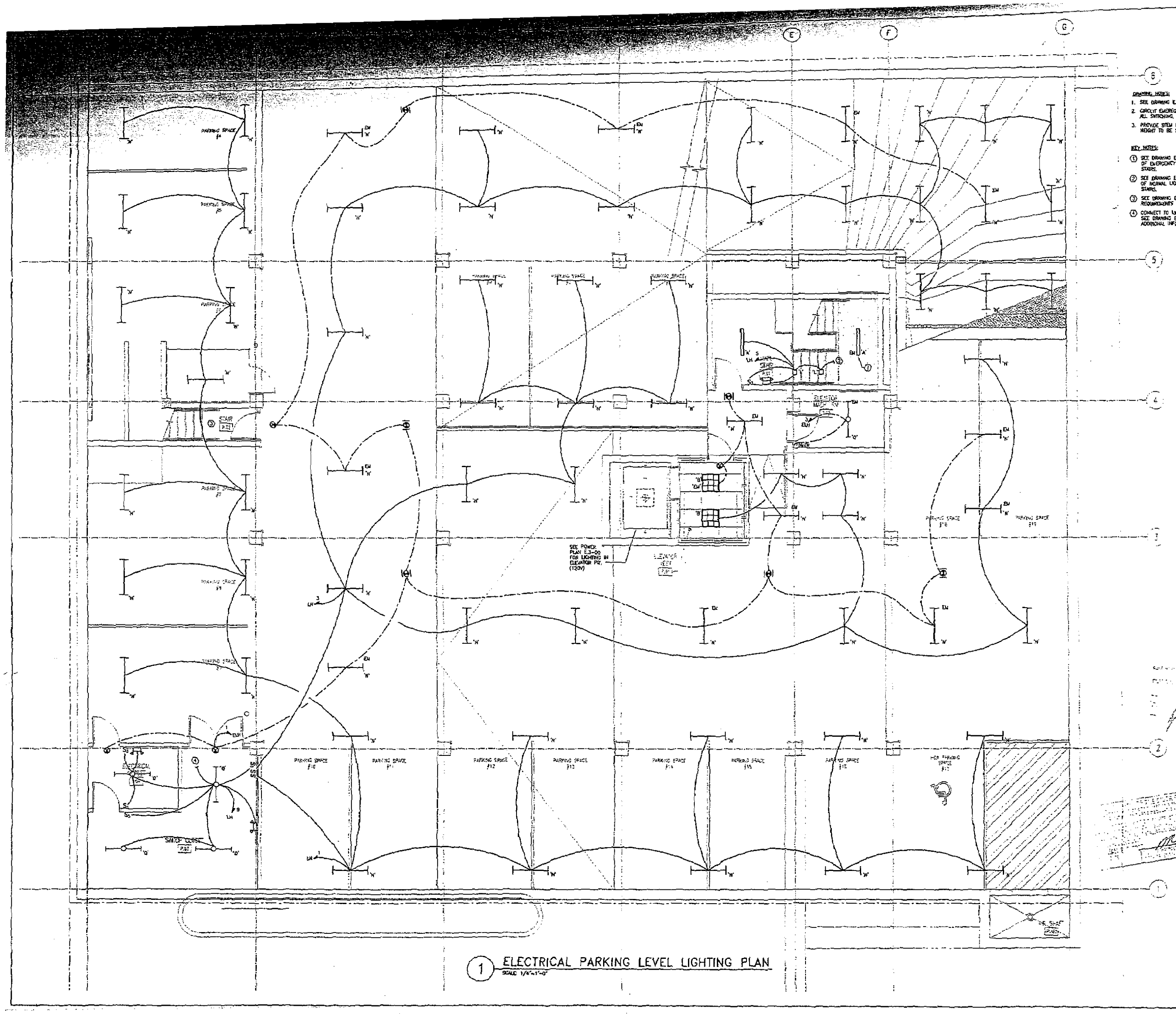
No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
ELECTRICAL SYMBOLS AND ABBREVIATIONS
CONSTRUCTION DOCUMENTS

SCALE: NONE
SHEET NO.
E.1-00
REVISION

ELECTRICAL



1 ELECTRICAL PARKING LEVEL LIGHTING PLAN
SCALE: 1/4"=1'-0"

DRAWING NOTES:

1. SEE DRAWING E.6-01 FOR LIGHT FIXTURE SCHEDULE.
2. CIRCUIT EMERGENCY WALL PACK LIGHTING AHEAD OF ALL SWITCHING.
3. PROVIDE STEM MOUNTING FOR ALL GARAGE LIGHTING. HEIGHT TO BE SET BY ARCHITECT.

KEY NOTES:

① SEE DRAWING E.2-00M FOR CIRCUITING OF EMERGENCY LIGHTING CIRCUIT SERVING STAIRS.
② SEE DRAWING E.2-00M FOR CONTINUATION OF NORMAL LIGHTING CIRCUIT SERVING STAIRS.
③ SEE DRAWING E.2-00M FOR LIGHTING REQUIREMENTS IN THIS AREA.
④ CONNECT TO LIGHTING IN FIRE PUMP ROOM. SEE DRAWING E.2-00M KEY NOTE ④ FOR ADDITIONAL INFORMATION.

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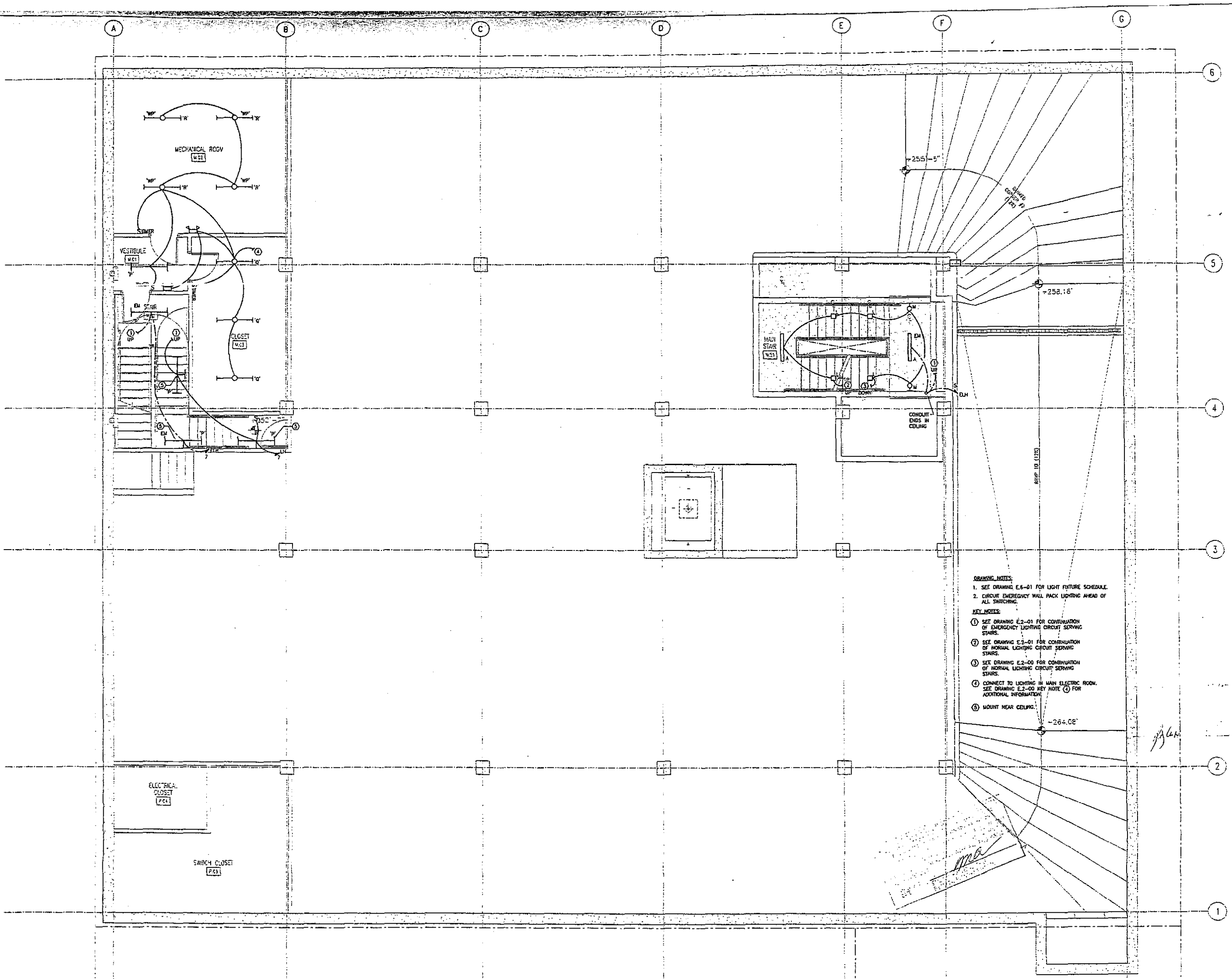
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
ELECTRICAL
PARKING LEVEL
LIGHTING PLAN
CONSTRUCTION
DOCUMENTS

SCALE: 1/4" = 1'-0"
SHEET NO. E.2-00
REVISION:

ELECTRICAL



DRAWING NOTES:

1. SEE DRAWING E.6-01 FOR LIGHT FIXTURE SCHEDULE.
2. CIRCUIT EMEREGNCY WALL PACK LIGHTING AHEAD OF ALL SWITCHING.

KEY NOTES:

① SEE DRAWING E.2-01 FOR CONTINUATION OF EMERGENCY LIGHTING CIRCUIT SERVING STAIRS.

② SEE DRAWING E.2-01 FOR CONTINUATION OF NORMAL LIGHTING CIRCUIT SERVING STAIRS.

③ SEE DRAWING E.2-00 FOR CONTINUATION OF NORMAL LIGHTING CIRCUIT SERVING STAIRS.

④ CONNECT TO LIGHTING IN MAIN ELECTRIC ROOM. SEE DRAWING E.2-00 KEY NOTE ④ FOR ADDITIONAL INFORMATION.

⑤ MOUNT NEAR CEILING.

① ELECTRICAL MEZZANINE LEVEL LIGHTING PLAN
SCALE: 1/4"=1'-0"

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	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
ELECTRICAL
MEZZANINE LEVEL
LIGHTING PLAN
CONSTRUCTION
DOCUMENTS

SCALE: 1/4" = 1'-0"
SHEET NO. E.2-00M
REVISION

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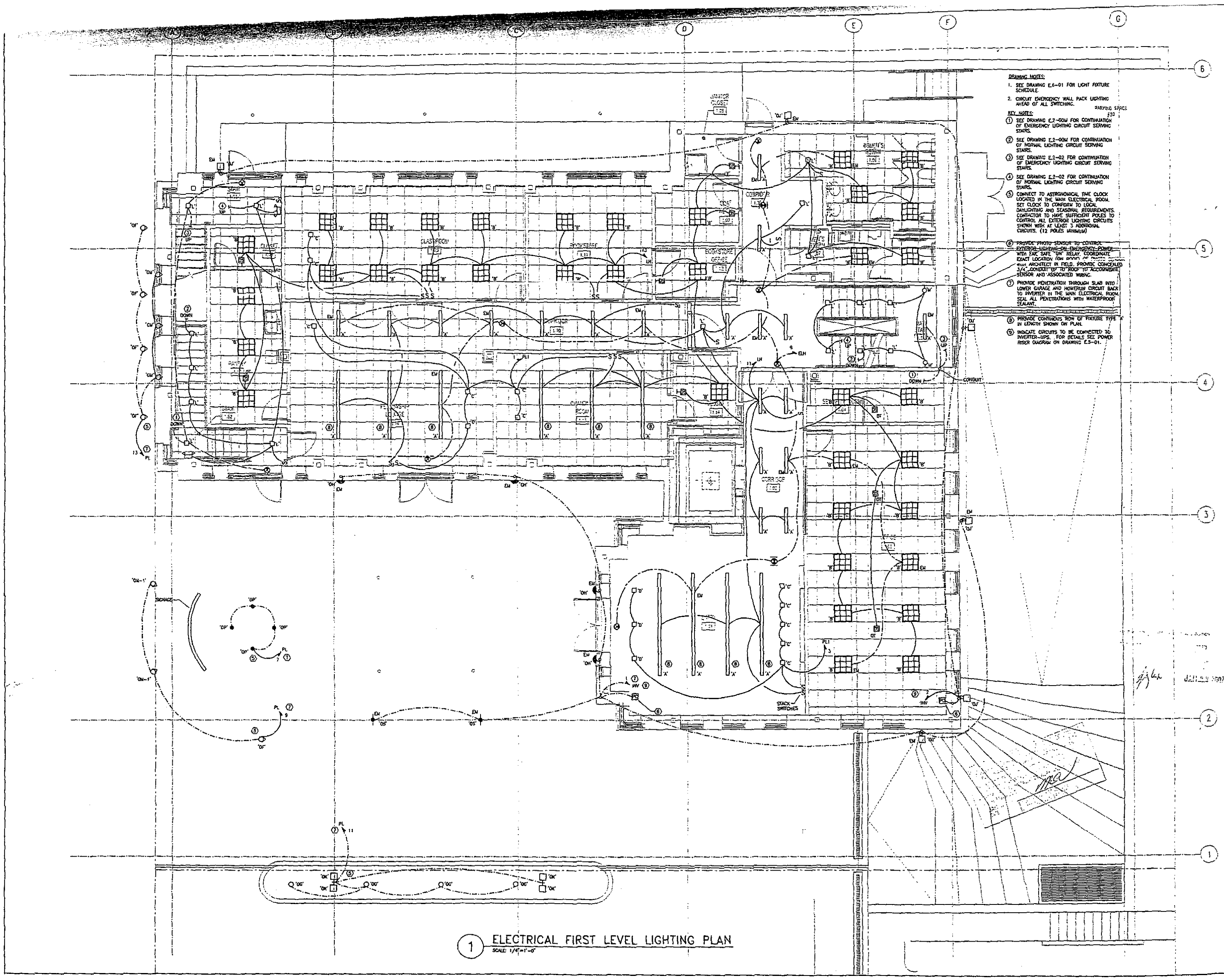
ELECTRICAL



1 ELECTRICAL FIRST LEVEL LIGHTING PLAN
SCALE: 1/4"=1'-0"

DRAWING NOTES:

1. SEE DRAWING E.6-01 FOR LIGHT FIXTURE SCHEDULE.
2. CIRCUIT EMERGENCY WALL PACK LIGHTING AHEAD OF ALL SWITCHING.

KEY NOTES:

① SEE DRAWING E.2-00M FOR CONTINUATION OF EMERGENCY LIGHTING CIRCUIT SERVING STAIRS.

② SEE DRAWING E.2-00M FOR CONTINUATION OF NORMAL LIGHTING CIRCUIT SERVING STAIRS.

③ SEE DRAWING E.2-02 FOR CONTINUATION OF EMERGENCY LIGHTING CIRCUIT SERVING STAIRS.

④ SEE DRAWING E.2-02 FOR CONTINUATION OF NORMAL LIGHTING CIRCUIT SERVING STAIRS.

⑤ CONNECT TO ASTRONOMICAL TIME CLOCK LOCATED IN THE MAIN ELECTRICAL ROOM. SET CLOCK TO CONFORM TO LOCAL DAYLIGHTING AND SEASONAL REQUIREMENTS. CONTACTOR TO HAVE SUFFICIENT POLES TO CONTROL ALL EXTERIOR LIGHTING CIRCUITS SHOWN WITH AT LEAST 3 ADDITIONAL CIRCUITS. (12 POLES MINIMUM)

⑥ PROVIDE PHOTO SENSOR TO CONTROL EXTERIOR LIGHTING ON EMERGENCY POWER WITH FAIL SAFE "ON" RELAY. COORDINATE EXACT LOCATION (ON ROOF) OF PHOTO SENSOR WITH ARCHITECT IN FIELD. PROVIDE CONCEALED 3/4" CONDUIT UP TO ROOF TO ACCOMMODATE SENSOR AND ASSOCIATED WIRING.

⑦ PROVIDE PENETRATION THROUGH SLAB INTO LOWER GARAGE AND HOMERUN CIRCUIT BACK TO INVERTER IN THE MAIN ELECTRICAL ROOM. SEAL ALL PENETRATIONS WITH WATERPROOF SEALANT.

⑧ PROVIDE CONTINUOUS ROW OF FIXTURE TYPE "A" IN LENGTH SHOWN ON PLAN.

⑨ INDICATE CIRCUITS TO BE CONNECTED TO INVERTER-UPS. FOR DETAILS SEE POWER RISER DIAGRAM ON DRAWING E.5-01.

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No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
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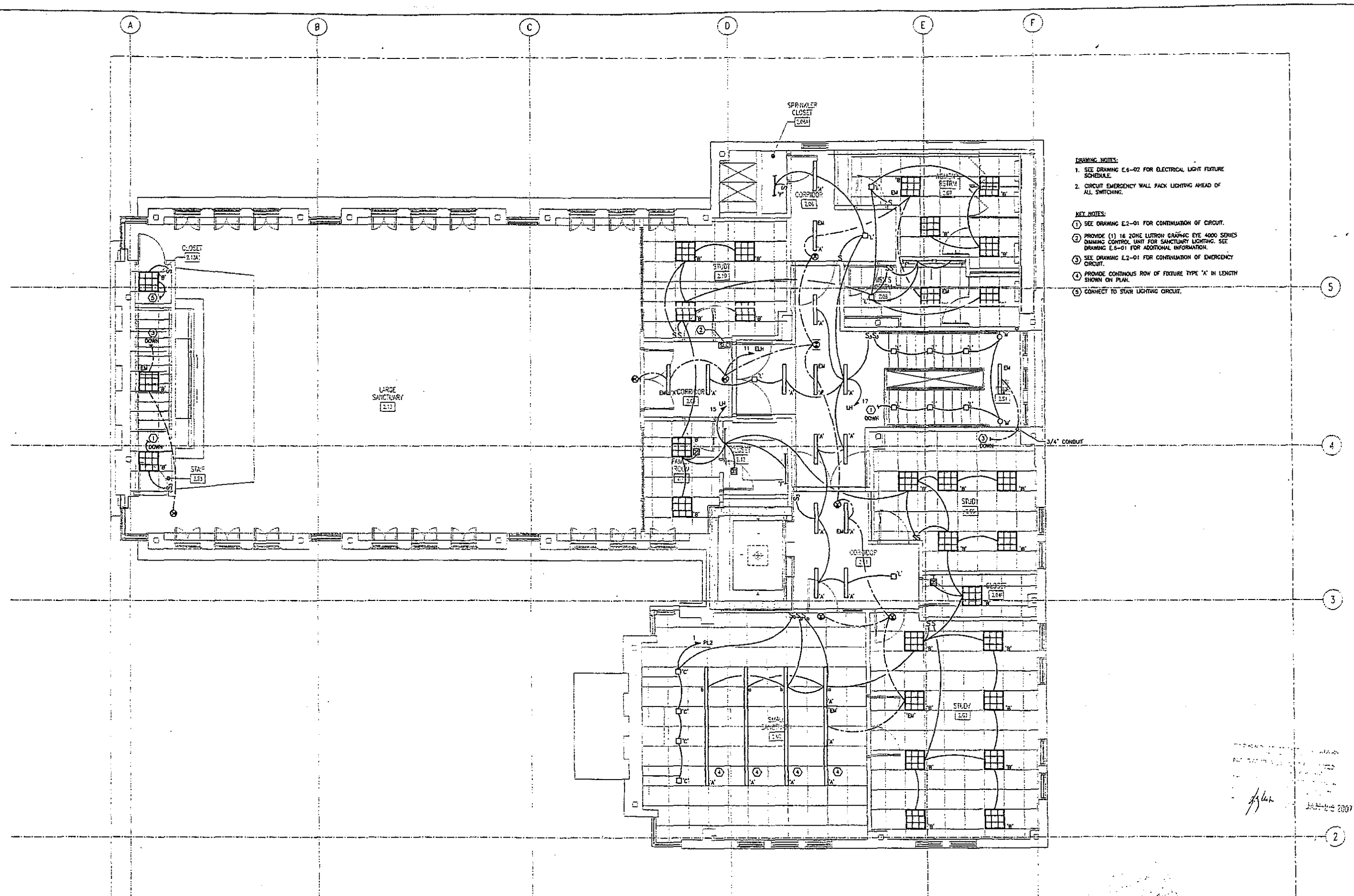
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
ELECTRICAL
FIRST LEVEL
LIGHTING PLAN
CONSTRUCTION
DOCUMENTS

SCALE: 1/4" = 1'-0"
SHEET NO. E.2-01
REVISION

ELECTRICAL



DRAWING NOTES:

1. SEE DRAWING E.6-02 FOR ELECTRICAL LIGHT FIXTURE SCHEDULE.
2. CIRCUIT EMERGENCY WALL PACK LIGHTING AHEAD OF ALL SWITCHING.

KEY NOTES:

① SEE DRAWING E.2-01 FOR CONTINUATION OF CIRCUIT.

② PROVIDE (1) 16 ZONE LUTRON GRAPHIC EYE 4000 SERIES DIMMING CONTROL UNIT FOR SANCTUARY LIGHTING. SEE DRAWING E.6-01 FOR ADDITIONAL INFORMATION.

③ SEE DRAWING E.2-01 FOR CONTINUATION OF EMERGENCY CIRCUIT.

④ PROVIDE CONTINOUS ROW OF FIXTURE TYPE 'A' IN LENGTH SHOWN ON PLAN.

⑤ CONNECT TO STAIR LIGHTING CIRCUIT.

① ELECTRICAL SECOND LEVEL LIGHTING PLAN

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

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

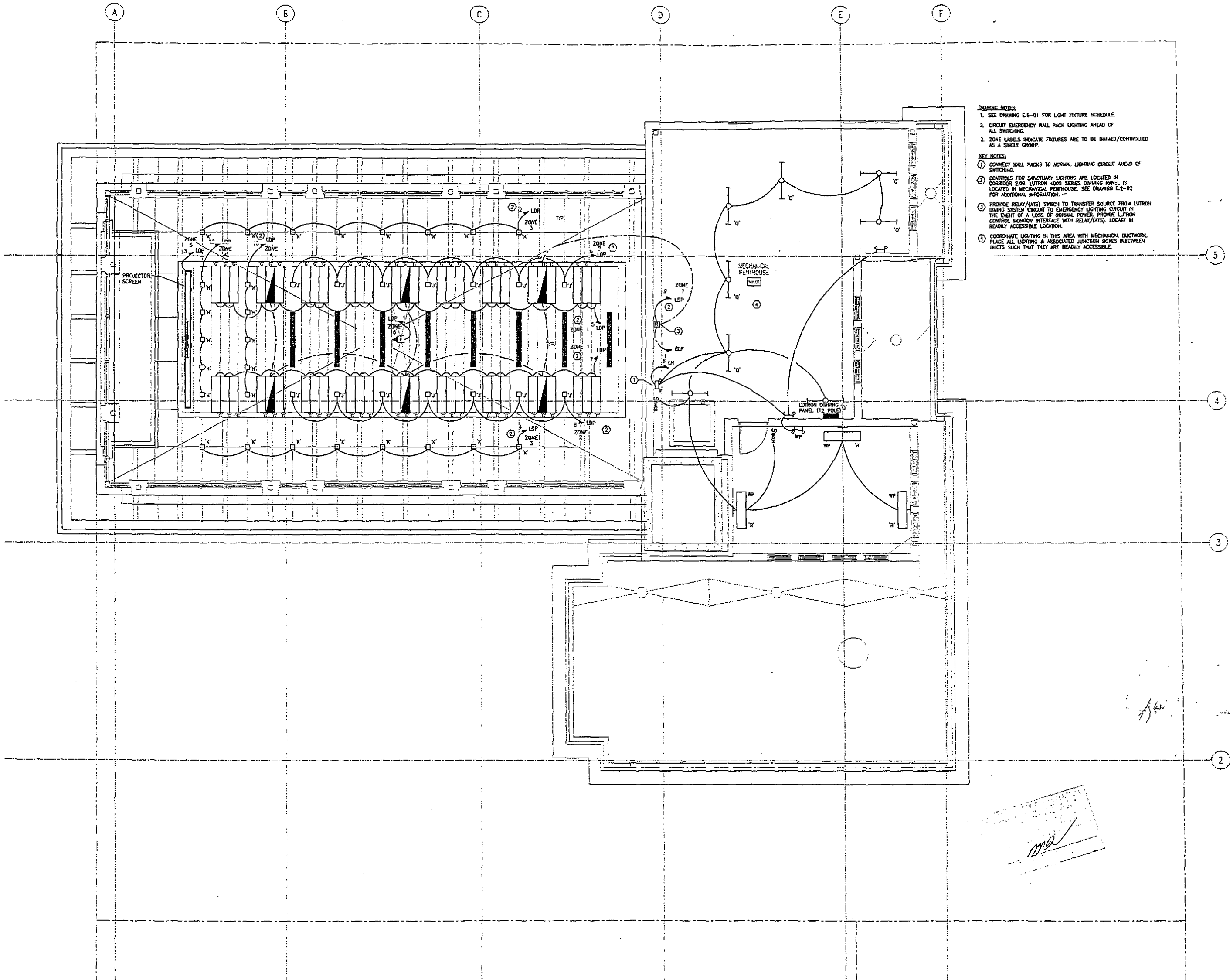
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
ELECTRICAL
SECOND LEVEL
LIGHTING PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. E.2-02
REVISION:

ELECTRICAL



DRAWING NOTES:

1. SEE DRAWING E.6–01 FOR LIGHT FIXTURE SCHEDULE.
2. CIRCUIT EMERGENCY WALL PACK LIGHTING AHEAD OF ALL SWITCHING.
3. ZONE LABELS INDICATE FIXTURES ARE TO BE DIMMED/CONTROLLED AS A SINGLE GROUP.

KEY NOTES:

① CONNECT WALL PACKS TO NORMAL LIGHTING CIRCUIT AHEAD OF SWITCHING.

② CONTROLS FOR SANCTUARY LIGHTING ARE LOCATED IN CORRIDOR 2.09. LUTRON 4000 SERIES DIMMING PANEL IS LOCATED IN MECHANICAL PENTHOUSE. SEE DRAWING E.2–02 FOR ADDITIONAL INFORMATION.

③ PROVIDE RELAY/(ATS) SWITCH TO TRANSFER SOURCE FROM LUTRON DIMING SYSTEM CIRCUIT TO EMERGENCY LIGHTING CIRCUIT IN THE EVENT OF A LOSS OF NORMAL POWER. PROVIDE LUTRON CONTROL MONITOR INTERFACE WITH RELAY/(ATS). LOCATE IN READILY ACCESSIBLE LOCATION.

④ COORDINATE LIGHTING IN THIS AREA WITH MECHANICAL DUCTWORK. PLACE ALL LIGHTING & ASSOCIATED JUNCTION BOXES INBETWEEN DUCTS SUCH THAT THEY ARE READILY ACCESSIBLE.

① ELECTRICAL THIRD LEVEL LIGHTING PLAN

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

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-

SHEET TITLE

ELECTRICAL
THIRD LEVEL
LIGHTING PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO.
E.2-03

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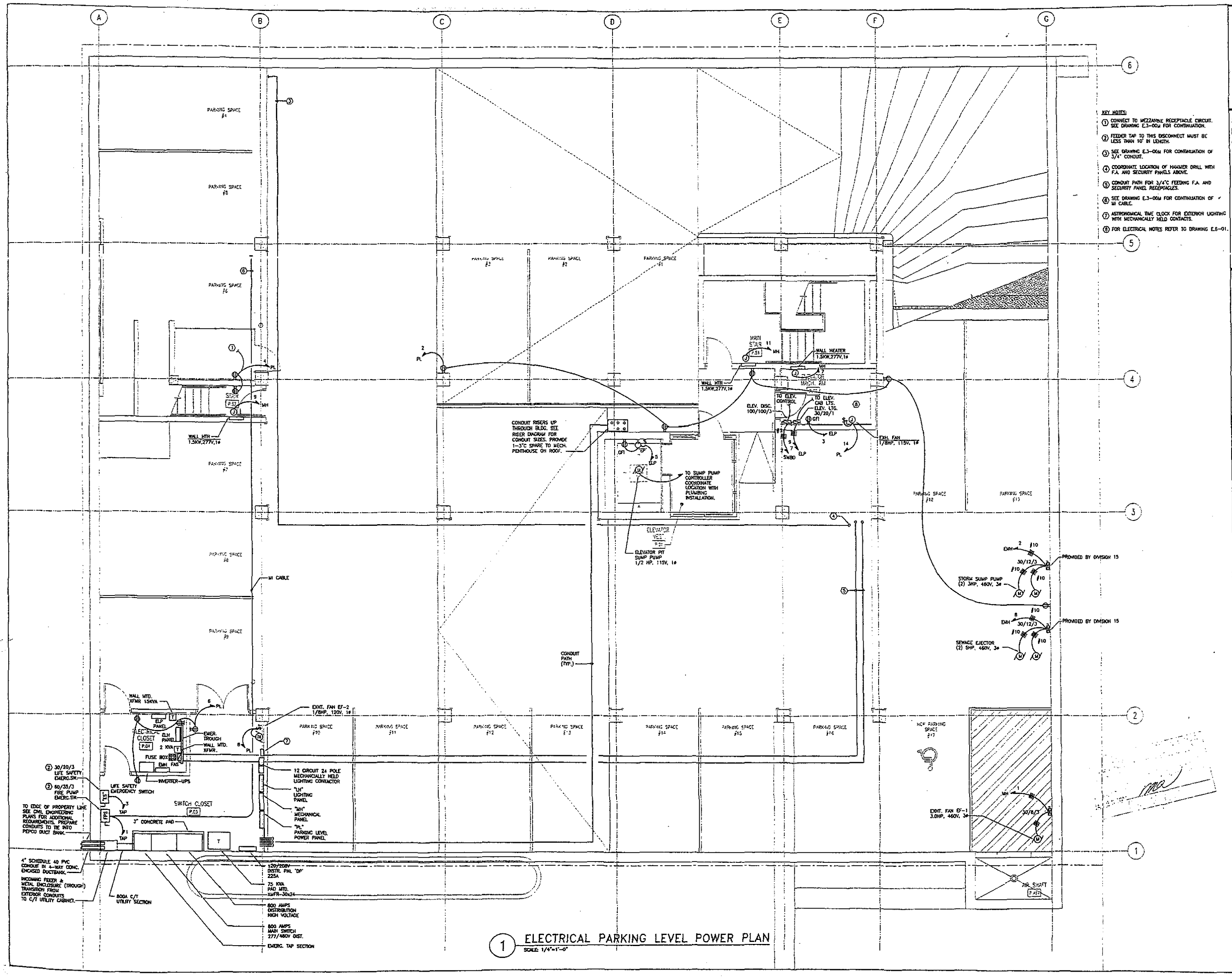
ELECTRICAL


A
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3
2
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PARKING SPACE #4
PARKING SPACE #3
PARKING SPACE #6
PARKING SPACE #7
PARKING SPACE #8
PARKING SPACE #9
PARKING SPACE #2
PARKING SPACE #1
PARKING SPACE #10
PARKING SPACE #11
PARKING SPACE #12
PARKING SPACE #13
PARKING SPACE #14
PARKING SPACE #15
PARKING SPACE #16
PARKING SPACE #18
PARKING SPACE #19
HC PARKING SPACE #17
WALL HTR 1.5KW,277V,1ø
STAIR P.51
MI CABLE
CONDUIT PATH (TYP.)
CONDUIT RISERS UP THROUGH BLDG. SEE RISER DIAGRAM FOR CONDUIT SIZES. PROVIDE 1-3"C SPARE TO MECH. PENTHOUSE ON ROOF.
MAIN STAIR P.51
WALL HEATER 1.5KW,277V,1ø
ELEVATOR MACH. RM
TO ELEV. CONTROL
TO ELEV. CAB LTS.
ELEV. LTG. 30/20/1
ELEV. DISC. 100/100/3
GFI
EP
ELP
SWBD
PL
MH
EXH. FAN 1/8HP, 115V, 1ø
TO SUMP PUMP CONTROLLER COORDINATE LOCATION WITH PLUMBING INSTALLATION.
ELEVATOR VEST P.21
ELEVATOR PIT SUMP PUMP 1/2 HP, 115V, 1ø
EMH
30/12/3
#10
PROVIDED BY DIVISION 15
STORM SUMP PUMP (2) 3HP, 460V, 3ø
SEWAGE EJECTOR (2) 5HP, 460V, 3ø
EXHT. FAN EF-1 3.0HP, 460V, 3ø
30/8/3
AIR SHAFT P.A51
WALL MTD. XFMR 15KVA
ELP PANEL
ELECTRICAL CLOSET P.01
ELH PANEL
2 KVA
EMER. TROUGH
WALL MTD. XFMR.
FUSE BOX
EMH
FAS
INVERTER-UPS
EXHT. FAN EF-2 1/8HP, 120V, 1ø
12 CIRCUIT 24 POLE MECHANICALLY HELD LIGHTING CONTACTOR
"LH" LIGHTING PANEL
"MH" MECHANICAL PANEL
"PL" PARKING LEVEL POWER PANEL
② 30/20/3 LIFE SAFETY EMERG.SW.
② 60/35/3 FIRE PUMP EMERG.SW.
LIFE SAFETY EMERGENCY SWITCH
"LS"
FPS
TAP
SWITCH CLOSET P.03
3" CONCRETE PAD
T
TO EDGE OF PROPERTY LINE SEE CIVIL ENGINEERING PLANS FOR ADDITIONAL REQUIREMENTS. PREPARE CONDUITS TO TIE INTO PEPCO DUCT BANK.
4" SCHEDULE 40 PVC CONDUIT IN 4-WAY CONC. ENCASED DUCTBANK.
INCOMING FEEDER & METAL ENCLOSURE (TROUGH) TRANSITION FROM EXTERIOR CONDUITS TO C/T UTILITY CABINET.
800A C/T UTILITY SECTION
120/208V DISTR. PNL "DP" 225A
75 KVA PAD MTD. XMFR-30x24
800 AMPS DISTRIBUTION HIGH VOLTAGE
800 AMPS MAIN SWITCH 277/480V DIST.
EMERG. TAP SECTION

1 ELECTRICAL PARKING LEVEL POWER PLAN

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

KEY NOTES:

① CONNECT TO MEZZANINE RECEPTACLE CIRCUIT. SEE DRAWING E.3-00M FOR CONTINUATION.

② FEEDER TAP TO THIS DISCONNECT MUST BE LESS THAN 10' IN LENGTH.

③ SEE DRAWING E.3-00M FOR CONTINUATION OF 3/4" CONDUIT.

④ COORDINATE LOCATION OF HAMMER DRILL WITH F.A. AND SECURITY PANELS ABOVE.

⑤ CONDUIT PATH FOR 3/4"C FEEDING F.A. AND SECURITY PANEL RECEPTACLES.

⑥ SEE DRAWING E.3-00M FOR CONTINUATION OF ✓ MI CABLE.

⑦ ASTRONOMICAL TIME CLOCK FOR EXTERIOR LIGHTING WITH MECHANICALLY HELD CONTACTS.

⑧ FOR ELECTRICAL NOTES REFER TO DRAWING E.6-01.

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RICHARD R. SCHAEFER
6/30/06

KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

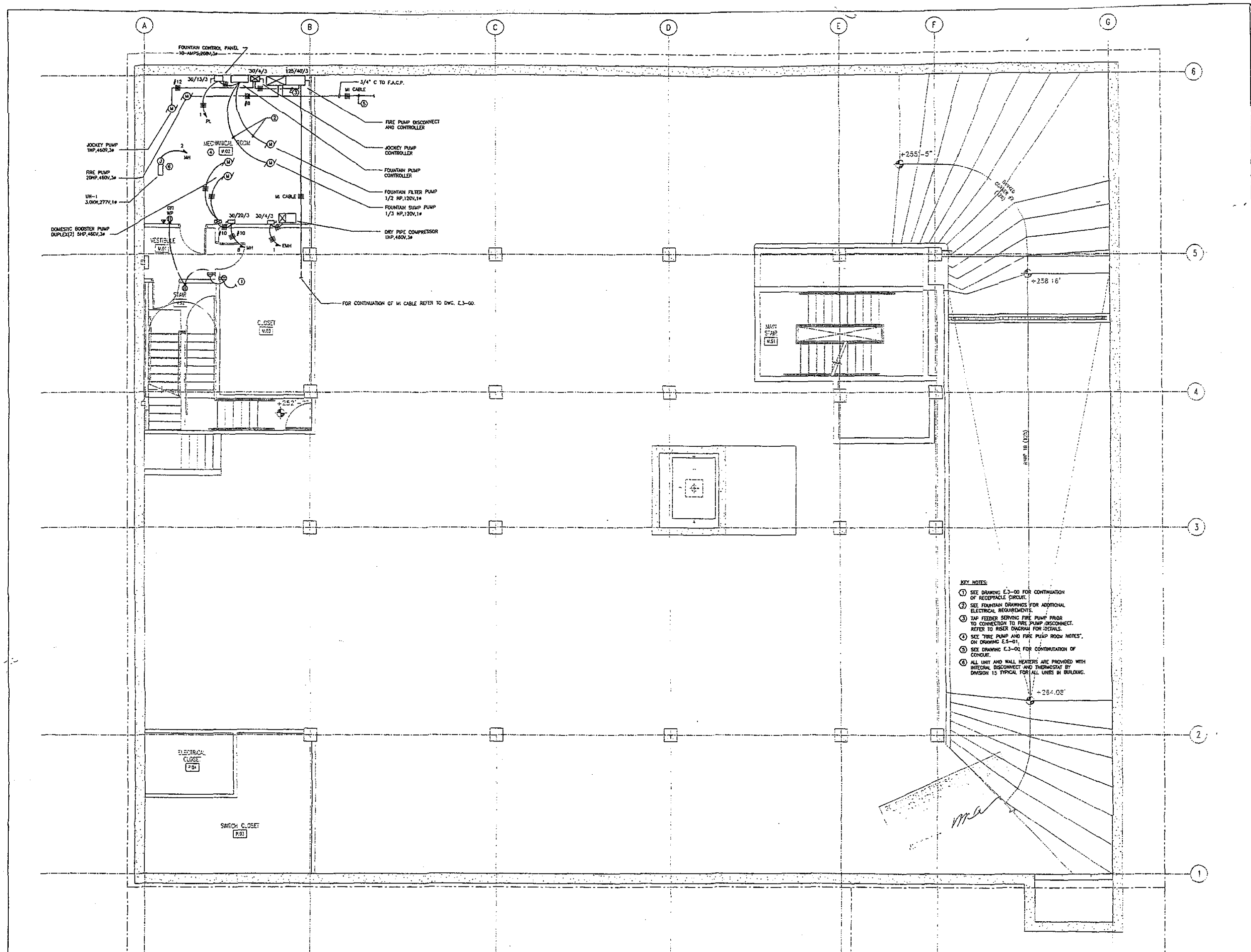
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
ELECTRICAL
PARKING LEVEL
POWER PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. E.3-00
REVISION:

ELECTRICAL



KEY NOTES:

① SEE DRAWING E.3-00 FOR CONTINUATION OF RECEPTACLE CIRCUIT.

② SEE FOUNTAIN DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

③ TAP FEEDER SERVING FIRE PUMP PRIOR TO CONNECTION TO FIRE PUMP DISCONNECT. REFER TO RISER DIAGRAM FOR DETAILS.

④ SEE "FIRE PUMP AND FIRE PUMP ROOM NOTES", ON DRAWING E.5-01.

⑤ SEE DRAWING E.3-00 FOR CONTINUTATION OF CONDUIT.

⑥ ALL UNIT AND WALL HEATERS ARE PROVIDED WITH INTEGRAL DISCONNECT AND THERMOSTAT BY DIVISION 15 TYPICAL FOR ALL UNITS IN BUILDING.

① ELECTRICAL MEZZANINE POWER PLAN
SCALE: 1/4"=1'-0"

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MEZZANINE
POWER PLAN
CONSTRUCTION
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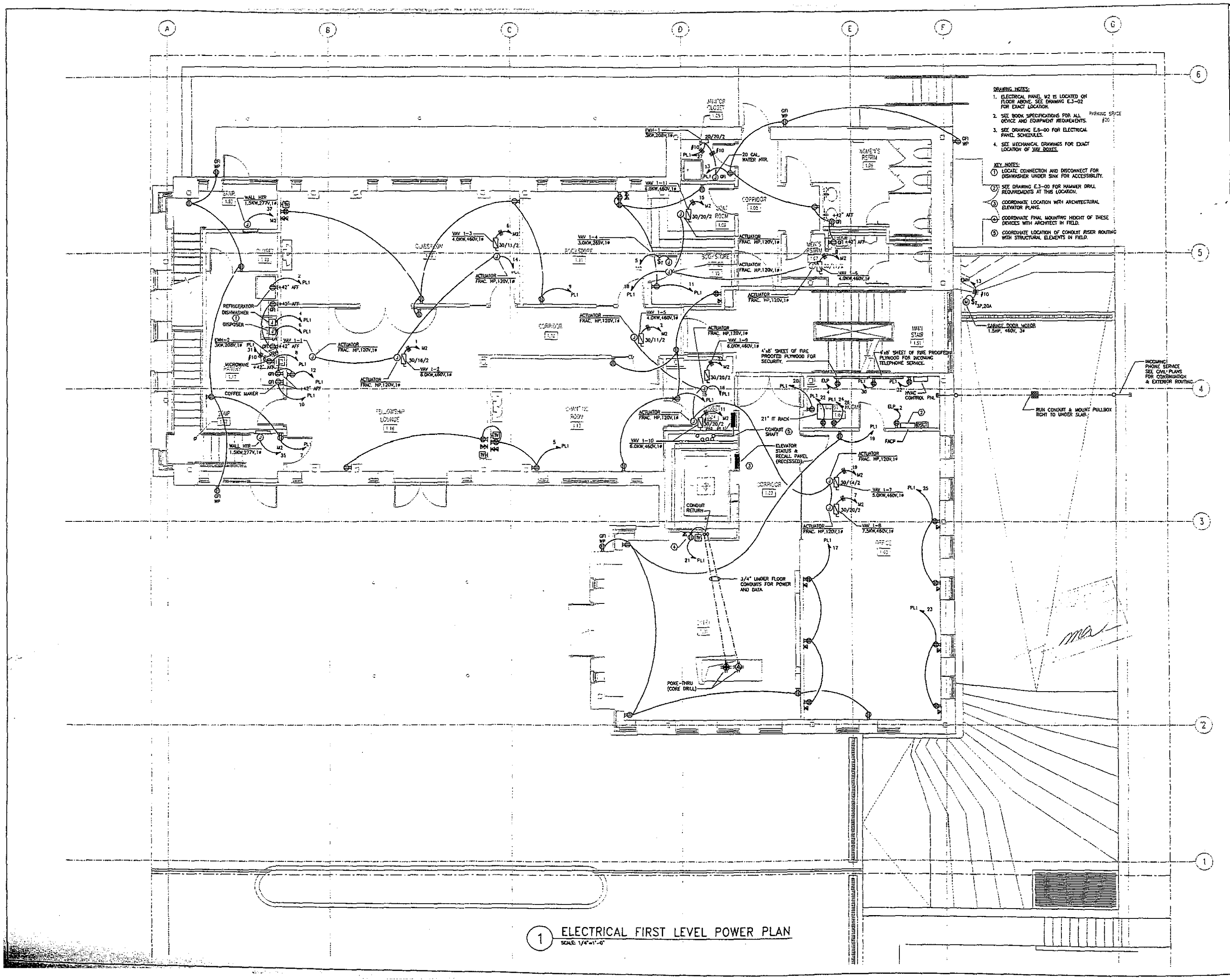
SCALE: 1/4" = 1'-0"

SHEET NO.
E.3-00M
REVISION:

ELECTRICAL



DRAWING NOTES:

1. ELECTRICAL PANEL M2 IS LOCATED ON FLOOR ABOVE. SEE DRAWING E.3-02 FOR EXACT LOCATION.
2. SEE BOOK SPECIFICATIONS FOR ALL DEVICE AND EQUIPMENT REQUIREMENTS.
3. SEE DRAWING E.6-00 FOR ELECTRICAL PANEL SCHEDULES.
4. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF VAV BOXES.

KEY NOTES:

① LOCATE CONNECTION AND DISCONNECT FOR DISHWASHER UNDER SINK FOR ACCESSIBILITY.
② SEE DRAWING E.3-00 FOR HAMMER DRILL REQUIREMENTS AT THIS LOCATION.
③ COORDINATE LOCATION WITH ARCHITECTURAL ELEVATOR PLANS.
④ COORDINATE FINAL MOUNTING HEIGHT OF THESE DEVICES WITH ARCHITECT IN FIELD.
⑤ COORDINATE LOCATION OF CONDUIT RISER ROUTING WITH STRUCTURAL ELEMENTS IN FIELD.

① ELECTRICAL FIRST LEVEL POWER PLAN

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

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ELECTRICAL
FIRST LEVEL
POWER PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO.
E.3-01

REVISION:

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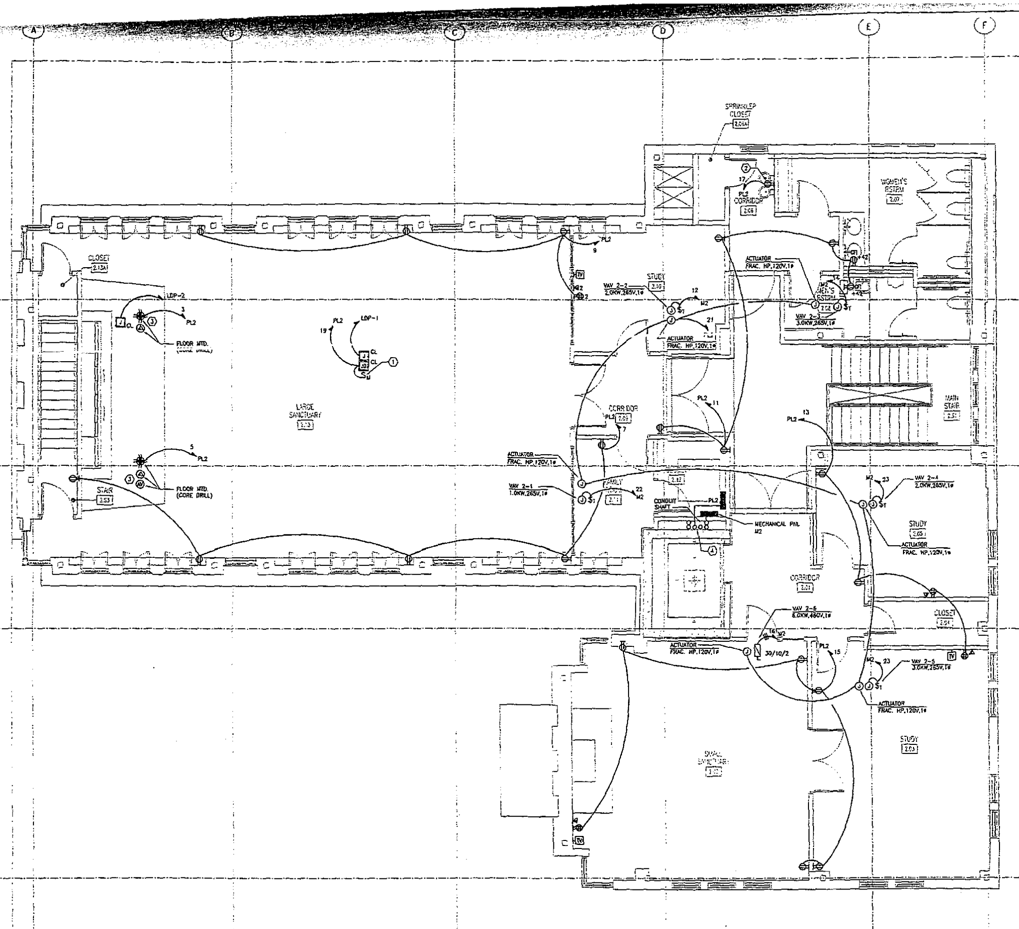

1 ELECTRICAL SECOND LEVEL POWER PLAN
SCALE: 1/4"=1'-0"

DRAWING NOTES:

1. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF VAV BOXES.
2. SEE BOOK SPECIFICATIONS FOR ALL DEVICE AND EQUIPMENT REQUIREMENTS.
3. SEE DRAWING E.6-00 FOR ELECTRICAL PANEL SCHEDULES.

KEY NOTES:

① LOCATE DISCONNECT SWITCH IN AN ACCESSIBLE LOCATION ABOVE CEILING. VERIFY FINAL LOCATION WITH ARCHITECT.

② COORDINATE MOUNTING HEIGHT OF THIS RECEPTACLE WITH REQUIREMENTS OF WATER FOUNTAIN. VERIFY FINAL LOCATION WITH ARCHITECT.

③ PROVIDE 1"C FOR EACH DEVICE FROM THIS LOCATION TO SECURITY ROOM.

④ COORDINATE LOCATION OF CONDUIT RISER ROUTING WITH STRUCTURAL ELEMENTS IN FIELD.

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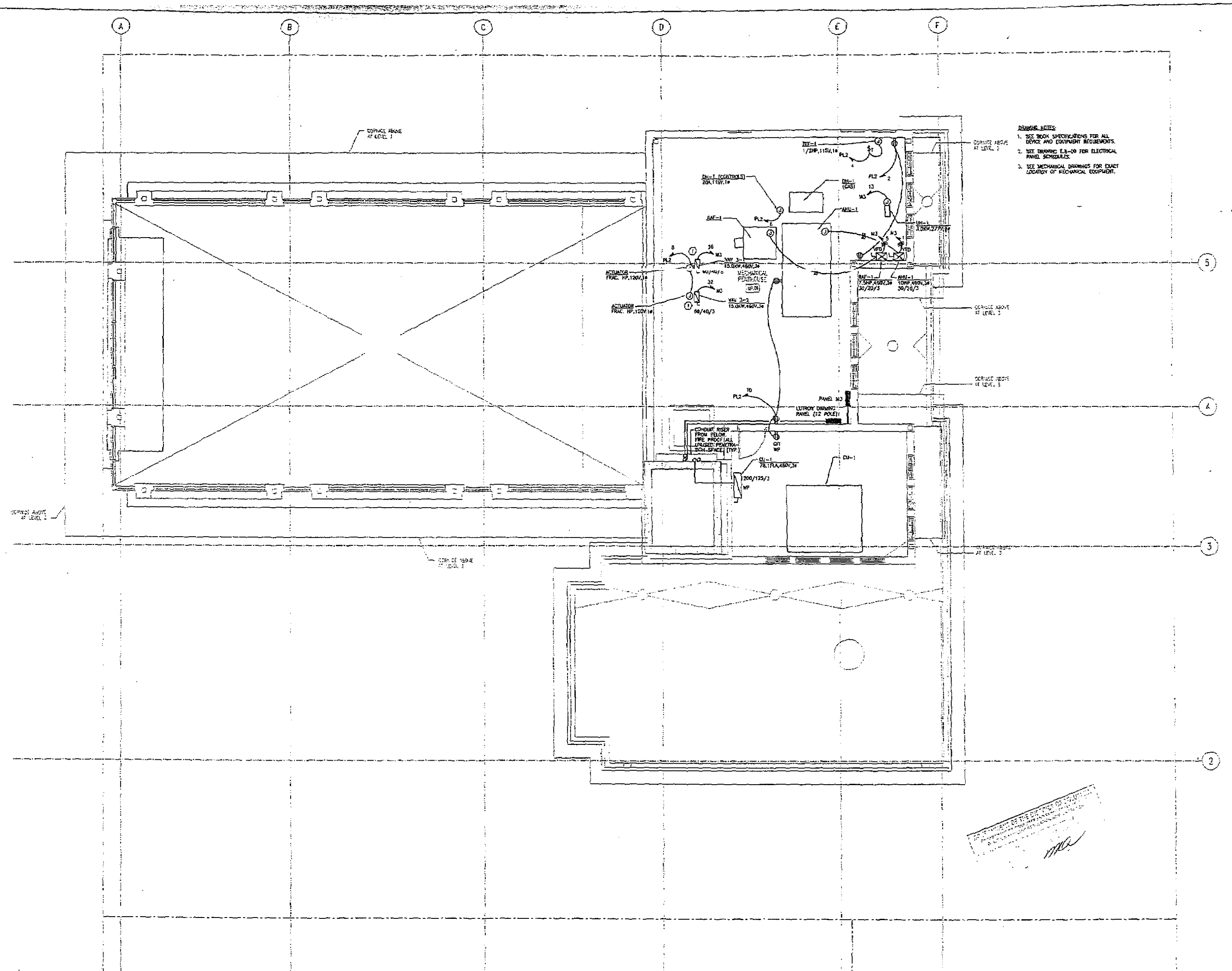
SHEET TITLE
ELECTRICAL
SECOND LEVEL
POWER PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO.
E.3-02

REVISION:

ELECTRICAL



DRAWING NOTES:

1. SEE BOOK SPECIFICATIONS FOR ALL DEVICE AND EQUIPMENT REQUIREMENTS.
2. SEE DRAWING E.6-00 FOR ELECTRICAL PANEL SCHEDULES.
3. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.

① THIRD LEVEL ELECTRICAL POWER PLAN

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

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	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE 06-30-06

SHEET TITLE
ELECTRICAL
THIRD LEVEL
POWER PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO.
E.3-03

REVISION

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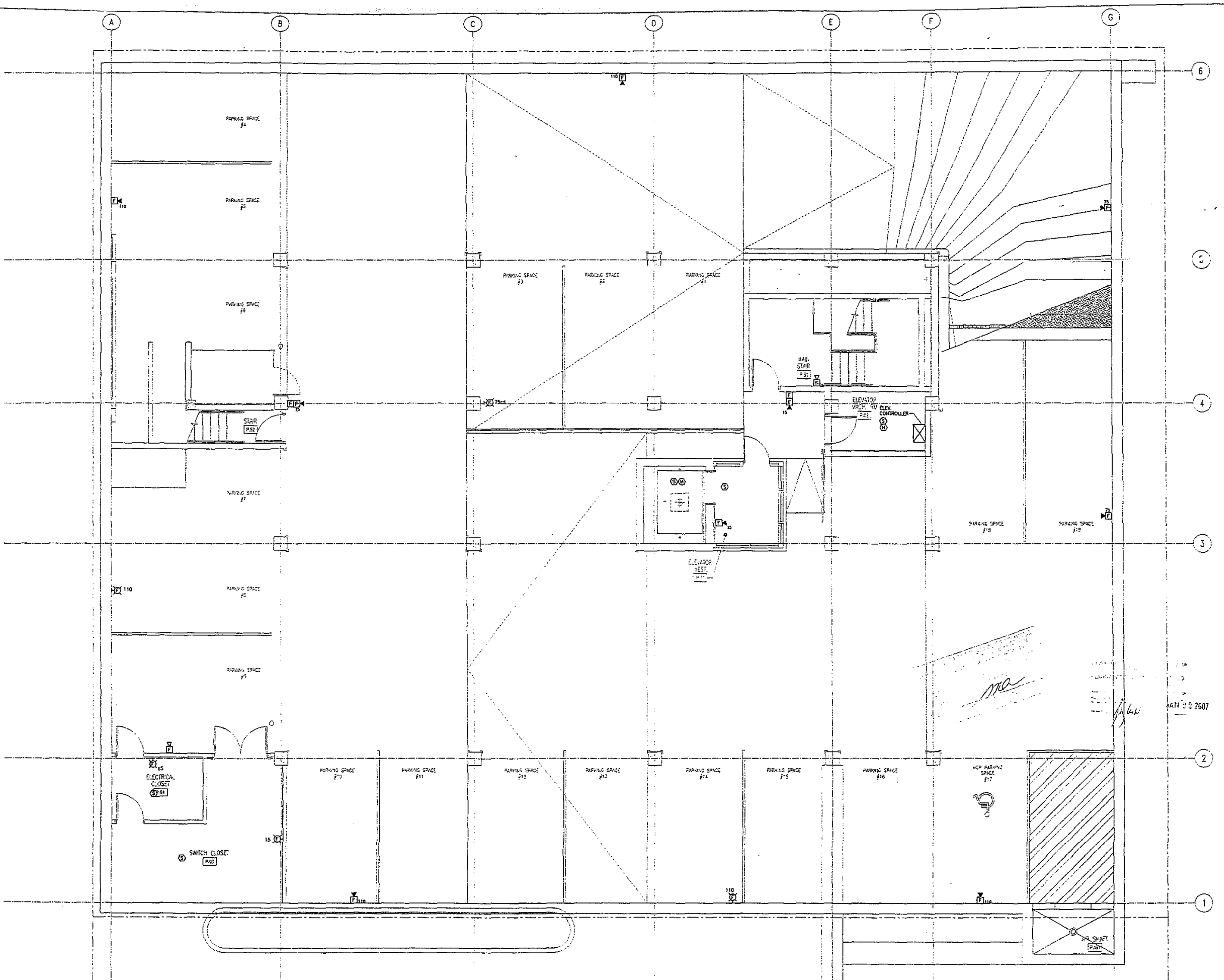

ELECTRICAL PARKING LEVEL FIRE ALARM PLAN

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

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PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE

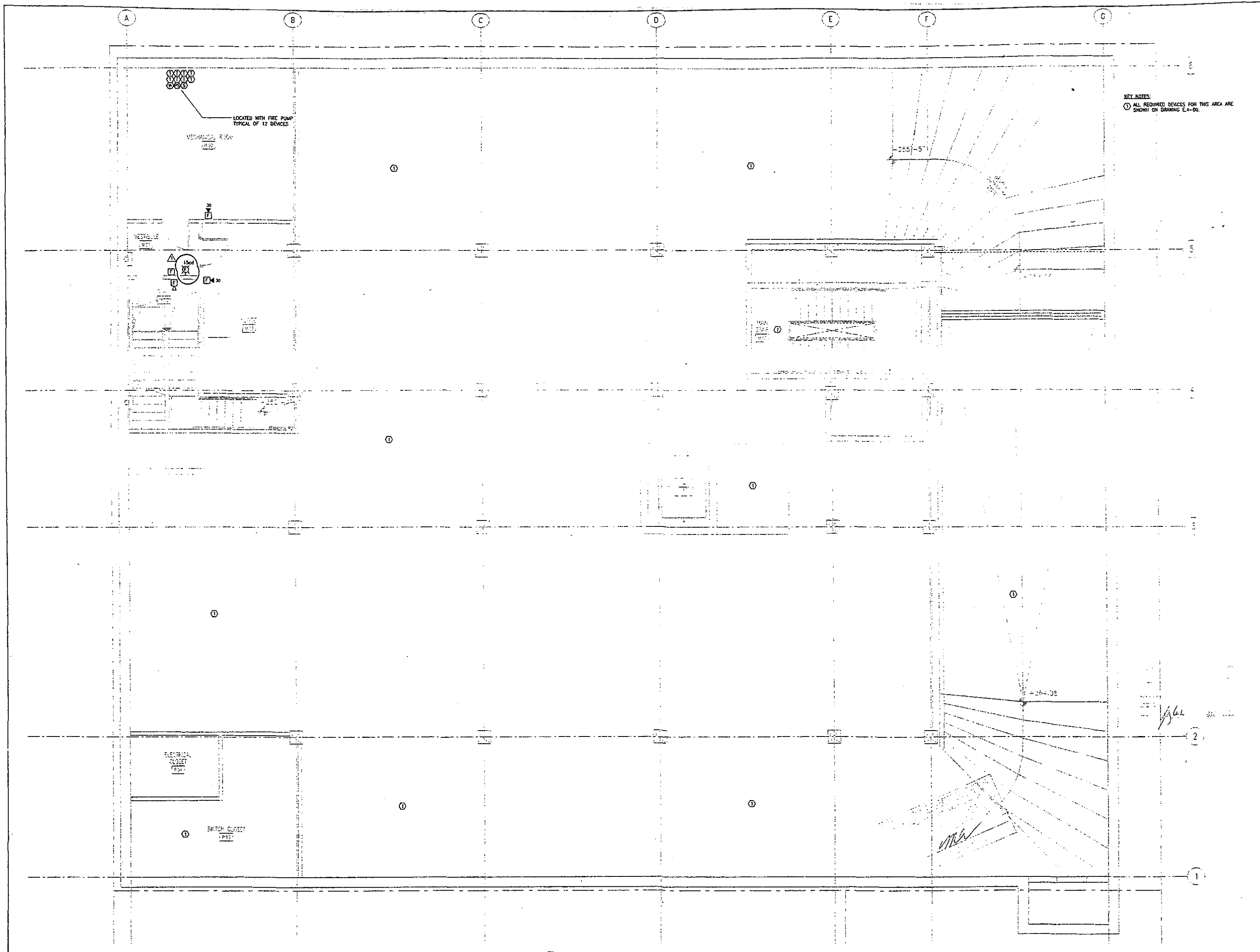
ELECTRICAL PARKING LEVEL FIRE ALARM PLAN

CONSTRUCTION DOCUMENTS

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

SHEET NO. E.4-00
REVISION:

ELECTRICAL



KEY NOTES:

① ALL REQUIRED DEVICES FOR THIS AREA ARE SHOWN ON DRAWING E.4-00.

① ELECTRICAL MEZZANINE FIRE ALARM PLAN

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

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No.	Description
⚠	DCRA COMMENTS
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PROJECT NO. DATE:
W050002

SHEET TITLE
ELECTRICA
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FIRE ALARM I
CONSTRUCTIC
DOCUMENTS

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

SHEET NO.
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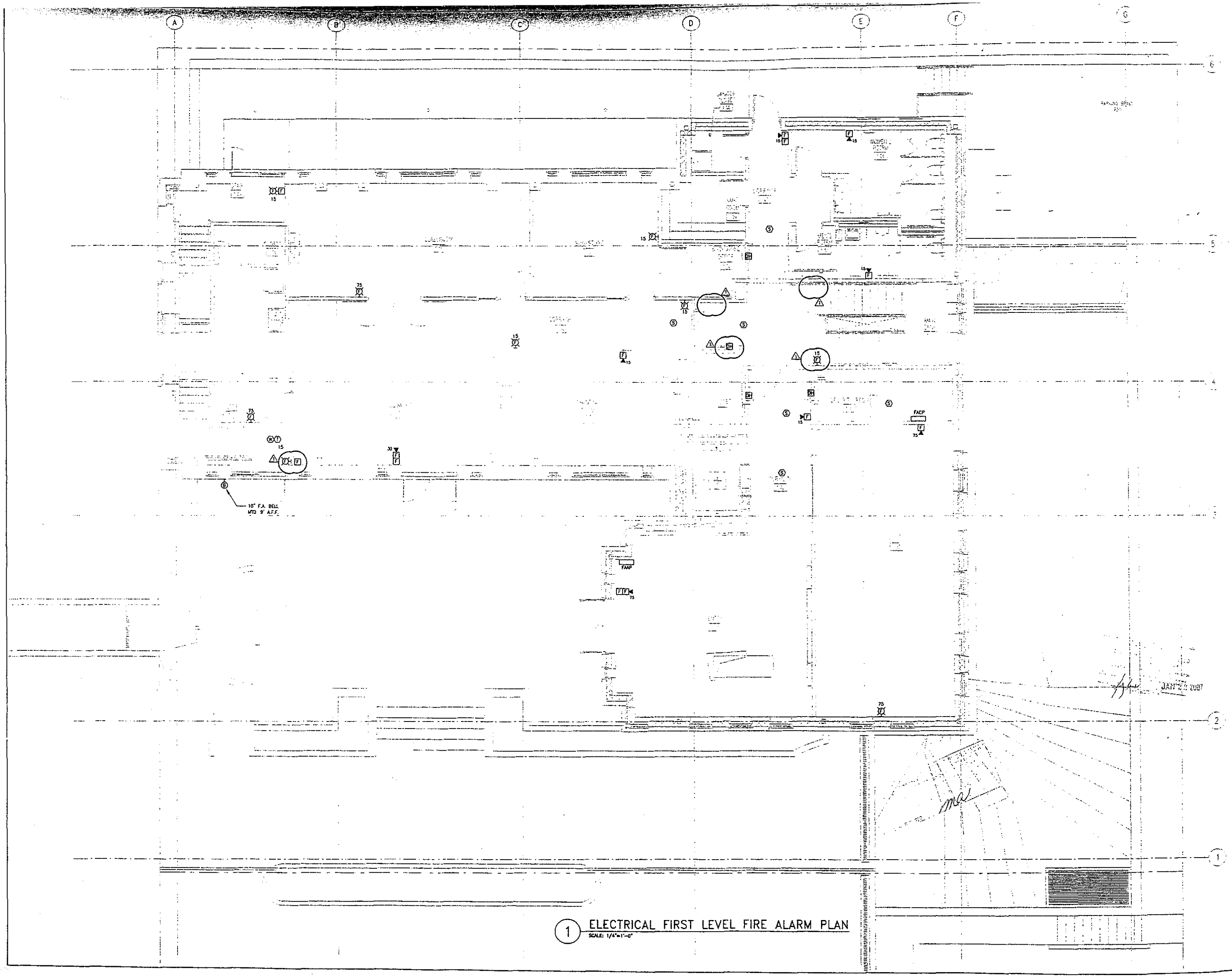

1 ELECTRICAL FIRST LEVEL FIRE ALARM PLAN
SCALE: 1/4"=1'-0"

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△	DCRA COMMENTS	01/
1	ADDENDUM 1	03/
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	50% CONST. DOCUMENTS	05/
	100% DESIGN DEVELOPMENT	02/
	50% DESIGN DEVELOPMENT	10/

PROJECT NO. W050002
DATE: 06–

SHEET TITLE
ELECTRICAL
FIRST LEVEL
FIRE ALARM PL
CONSTRUCTION
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SCALE: 1/4" = 1'-0"

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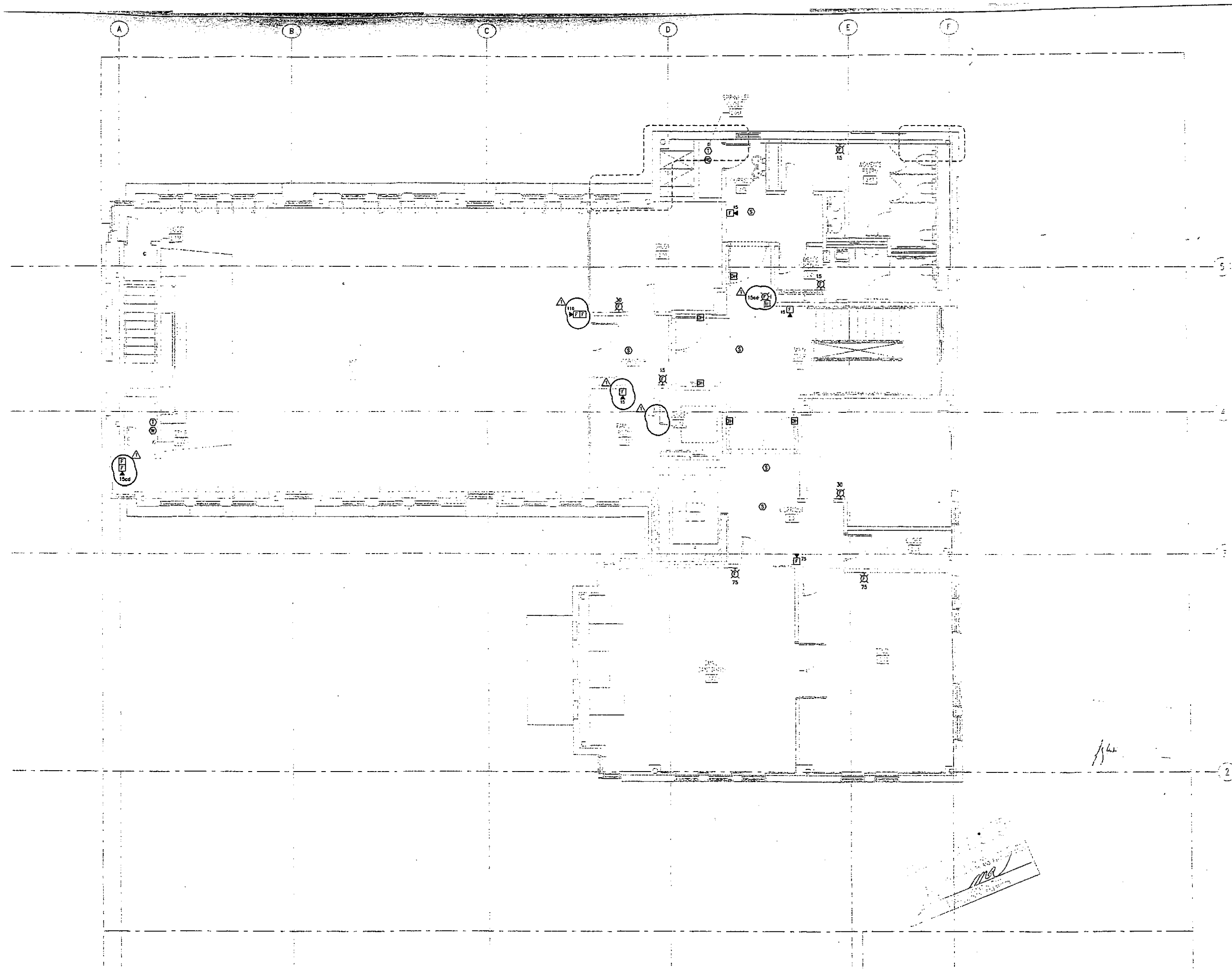

1 ELECTRICAL SECOND LEVEL FIRE ALARM PLAN
SCALE: 1/4"=1'-0"

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SECOND LEV
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E.4-02

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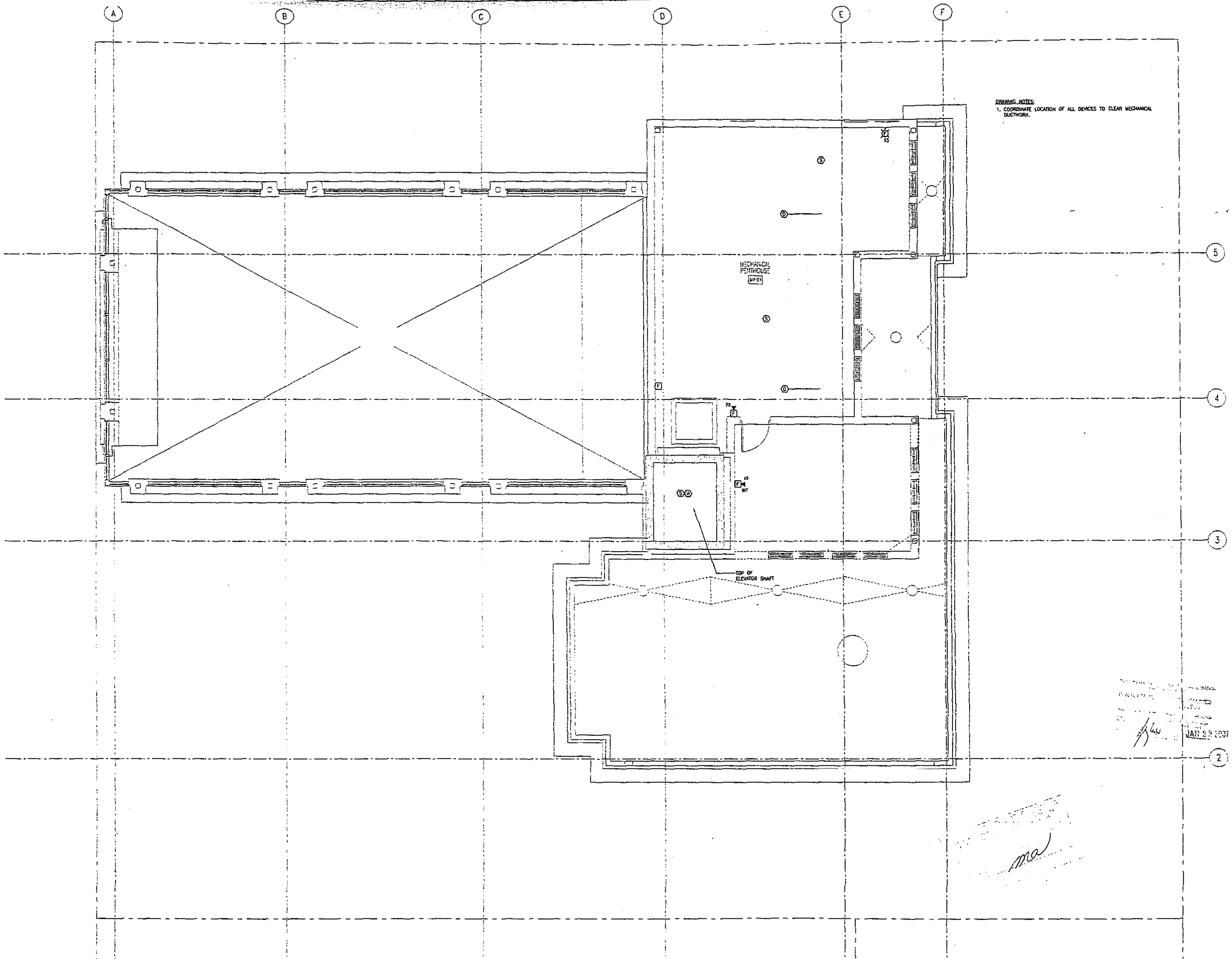

DRAWING NOTES:
1. COORDINATE LOCATION OF ALL DEVICES TO CLEAR MECHANICAL DUCTWORK.

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1 ELECTRICAL THIRD LEVEL FIRE ALARM PLAN
SCALE: 1/4"=1'-0"

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SHEET TITLE
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THIRD LEVEL
FIRE ALARM PLAN
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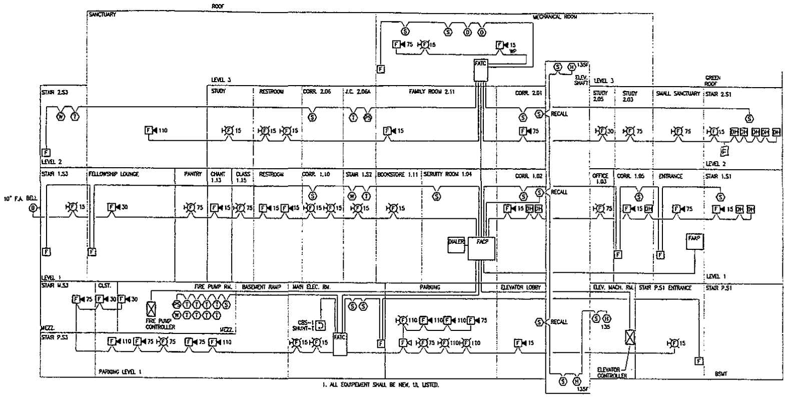


FIRE ALARM RISER DIAGRAM

GENERAL
1. ALL EQUIPEMENT SHALL BE NEW, UL LISTED.

FIRE ALARM NOTES

FA1 PROVIDE NEW COMPLETE FIRE ALARM, SMOKE AND FIRE DETECTION SYSTEM. THE SYSTEM SHALL CONSIST OF FIRE ALARM CONTROL PANELS (FACP) REQUIRES NUMBER OF EXTENDER PANELS, FIRE ALARM ANNUNCIATOR PANEL (FAAP) WITH AUTOMATIC AND MANUAL CONTROLS. THE INITIATING DEVICES SHALL BE AREA SMOKE DETECTORS, DUCT SMOKE DETECTORS, HEAT DETECTORS, FLOW SWITCHES, TAMPER SWITCHES, PRESSURE SWITCHES AND MANUAL PULL STATIONS.
THE ANNUNCIATING DEVICES SHALL BE STROBE LIGHTS, HORNS, HORN/STROBE LIGHT COMBINATION AND SINGLE 10" DIAMETER BELL ON THE EXTERIOR WALL OF THE BUILDING OF THE ADDRESS SIDE.

FA2 NEW FIRE ALARM SYSTEM SHALL BE MULTIPLEX, ADDRESSABLE ANALOG, NON CODED, ELECTRICALLY SUPERVISED GENERAL ALARM SYSTEM ARRANGED WITH SINGLE ZONE PER FLOOR, CONSISTING OF PROGRAMMED F.A.C.P. AND F.A.A.P. INTERLOCK TO MECHANICAL EQUIPMENT CONTROLS, ELEVATOR POWER SUPPLY AND ELEVATOR CONTROLS FOR ELEVATOR RECALL AND INTERLOCK TO THE SECURITY ACCESS SYSTEM.

FA3 ALL NEW FIRE ALARM AND DETECTION SYSTEMS, FIRE AND LIFE SAFETY SYSTEM CONTROLS AND SYSTEM SUPERVISION SHALL CONFORM TO THE DC FIRE MARSHALL FIRE PREVENTION CODE REFERENCE, INTERNATIONAL BUILDING CODE 2000, INTERNATIONAL FIRE CODE 2000, MANUFACTURER RECOMMENDATIONS AND APPLICABLE NFPA 1996 DOCUMENTS INCLUDING BUT NOT LIMITED TO: 13 –SPRINKLER SYSTEM, 14 –STANDPIPE, 20 –FIRE PUMP, 37 –GENERATORS, 70 –NEC, 72 –NFAC, 101 –LIFE SAFETY AND 110 –EMERGENCY AND STANDBY POWER.
THE NEW SYSTEM, INSTALLATION AND PERFORMANCE SHALL ALSO COMPLY WITH DCMR-12 2004.

FA4 PROVIDE NEW FIRE ALARM SYSTEM THAT MEETS AND EXCEEDS REQUIREMENTS SHOWN IN THIS CONSTRUCTION DOCUMENT.

FA5 THE MAIN FIRE CONTROL PANEL SHALL BE LOCATED IN ELECTRICAL ROOM AS SHOWN ON THE DRAWING. THE EXACT LOCATION OF THE FIRE ALARM ANNUNCIATOR PANEL AND DISPLAY CONFIGURATION SHALL BE COORDINATED WITH FIRE MARSHALL BEFORE FABRICATION. SEE FLOOR PLAN FOR PROPOSED LOCATION OF THE FIRE ALARM ANNUNCIATOR PANEL.

FA6 PROVIDE AND INSTALL (EXTENDER PANELS) REMOTE FIRE ALARM UNITS IN LOCATIONS AS INDICATED ON RISER AND FLOOR PLANS TO SUPPORT INDICATING APPLIANCES. EACH EXTENDER REMOTE FIRE ALARM UNIT SHALL BE EQUIPPED WITH 8 MINIMUM 8 CIRCUITS CAPACITY. EACH USED CIRCUIT MAY BE LOADED TO NO MORE THAN 75% OF ITS ALLOWED CAPACITY.
EACH ZONE/FLOOR SHALL UTILIZE 2 CIRCUITS MINIMUM. NO MORE THAN 50% OF INDICATING DEVICES CAN BE INOPERATABLE IN THE ZONE UPON FAILURE OF ANY CIRCUIT IN THE SAME ZONE.

FA7 PROVIDE NEW CONDUIT RISERS AND TERMINAL CABINETS "FATC" IN LOCATIONS AS SHOWN ON FLOOR PLAN AND RISER FOR FIRE ALARM WIRING BETWEEN FACP AND FIRE ALARM DEVICES.
CONTRACTOR MAY USE SINGLE CONDUIT RISER FOR BOTH (INITIATING AND INDICATING DEVICES) CIRCUITS, IF PROPER SHIELDED WIRING IS UTILIZED TO PREVENT INTRODUCTION OF INDUCTION CURRENT IN INITIATING CIRCUITS DURING ALARM OR ABNORMAL CONDITION. CONDUIT CONNECTING THE TERMINAL CABINETS BETWEEN THE FLOORS SHALL BE 2" MIN. TERMINATION CABINET SHALL BE W20" x H24" x D6". ALL CONNECTIONS SHALL BE MADE WITH IDENTIFIED SCREW TYPE TERMINAL STRIPS AND LABELED WITH SYMBOLS CORRESPONDING TO F.A. SHOP DRAWINGS AND DIAGRAM.

FA8 IN ADDITION TO INDICATED BUILDING DEVICES INSTALLED UNDER THIS CONTRACT, PROVIDE SPARE CAPACITY ON A PER FLOOR BASIS IN THE FIRE ALARM CONTROL PANEL, TERMINAL CABINETS, EXTENDER PANELS AND POWER SUPPLIES TO ACCOMMODATE ANY ADDITIONAL FUTURE FIRE ALARM AND FIRE DETECTION DEVICES AS FOLLOWS: 25% FOR ALL INDICATED DEVICES WITH ASSUMPTION OF FUTURE VISUAL DEVICE RATED AT AVERAGE OF 75 CANDELAS AND WITH POWER SUPPLIES TO BE SIZED SO IF FULLY LOADED UNDER ALARM CONDITION INCLUDING ALL ESTIMATED FUTURE DEVICES THE CURRENT DRAW WILL NOT EXCEED 80% OF POWER SUPPLY CAPACITY.

FA9 THE SYSTEM SHALL BE CONTINUOUSLY ELECTRICALLY SUPERVISED AGAINST FAILURE ANY COMPONENT, APPLIANCES, WIRING, SWITCHES AND ELECTRICAL CONTACTS AND SHALL DETECT OPENS, SHORTS AND GROUND WHICH MIGHT IMPAIR THE FUNCTION OF THE SYSTEM. BOTH A VISUAL AND AUDIBLE TROUBLE SIGNAL SHALL OPERATE AT FIRE CONTROL PANEL, F.A. ANNUNCIATOR PANEL AND CENTRAL STATION VIA COMMUNICATION LINE.

FA10 REFER TO FLOOR PLANS FOR DEVICE LOCATIONS. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS AND CONFORM WITH REQUIREMENTS OF CODES LISTED IN NOTE FA3 AND DC FIRE MARSHALL.

FA11 PROVIDE DEDICATED 120V, 1PH, 20A CIRCUITS FOR EACH EXTENDER FIRE ALARM PANEL. PROVIDE TWO (2) 120V, 20A, 1ø CIRCUITS TO FEED FACP. DERIVE CIRCUITS FROM EMERGENCY POWER SOURCE AS SHOWN ON THE DRAWING.

FA12 PROVIDE 4 HOUR MINIMUM BATTERY BACKUP FOR FIRE ALARM SYSTEM AS REQUIRED BY LOCAL CODES.

FA13 WHERE THERE ARE A NUMBER OF POWER REQUIRING DEVICES, SUCH AS SMOKE DETECTORS, FAN RELAYS, DOOR HOLDERS, STROBE LIGHTS AND SMOKE DAMPER OPERATORS INSTALLED IN A CIRCUIT, GROUP IN NUMBERS SO POWER REQUIRED DOES NOT EXCEED 80% OF MANUFACTURER'S POWER SUPPLY RATING. PROVIDE EXTRA CAPACITY OF POWER SUPPLIES REQUIRED TO FULFILL THAT REQUIREMENT.
IN ADDITION PROVIDE EXTRA BRANCH WIRING OR LARGER SIZE WIRING TO ALLEVIATE VOLTAGE DROP. INSTALL ALL DEVICES IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

FA14 HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET:

GONGS AND HORNS	7'–6". EXTERIOR AT 9' MINIMUM.
FIRE ALARM STATIONS	4'–0"
STROBE LIGHTS	6'–8" AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER).

FA14 NUMBER OF CONDUCTORS, SIZE, TYPE AND COLOR CODE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL PER MANUFACTURER'S POINT-TO-POINT WIRING DIAGRAM. DETERMINE EXACT NUMBER OF WIRES FOR EACH FIRE AREA ZONE FROM NUMBER AND TYPES OF DEVICES INSTALLED.

FA15 ALL WIRING SHALL BE INSTALLED IN METALLIC TUBING OR METAL CONDUITS. THE INSTALLATION SHALL BE IN A MANNER WHICH WILL AFFORD THE MAXIMUM PROTECTION AGAINST THE EFFECTS OF FIRE AND OTHER PHYSICAL OR ACCIDENTAL DAMAGE. WIRING SHALL BE INSTALLED IN LOCATIONS WHICH WILL FACILITATE REPAIR OR REPLACEMENT. SURFACE INSTALLATION SHALL UTILIZE COMPRESSION FITTING AND KNOCKOUT BOXES WILL NOT BE ACCEPTABLE.

FA16 POWER SUPPLY AND FIRE ALARM CIRCUIT CONDUCTORS SHALL BE PERMITTED IN THE SAME CABLE, RACEWAY, JUNCTION BOX OR ENCLOSURE ONLY WHERE CONNECTED TO THE SAME EQUIPMENT.

FA17 SEQUENCE OF OPERATION. – ELEVATOR RECALL

1) PROVIDE SMOKE DETECTOR IN ELEVATOR MACHINE ROOM, AT TOP AND BOTTOM OF HOISTWAYS AND IN EACH ELEVATOR LOBBY AND CONNECT TO ACTIVATE ALARM CONDITION AND RECALL THE ELEVATORS. SMOKE DETECTOR OPERATION MUST BE VERIFIED BEFORE INITIATING ALARM STATUS.
2) ELEVATOR LOBBY OR HOISTWAY OR MACHINE ROOM SMOKE DETECTOR OR SYSTEM GENERAL ALARM ACTIVATION SHALL INITIATE ELEVATOR RECALL SEQUENCE.
3) UPON INITIATION OF ELEVATOR RECALL SEQUENCE, ELEVATORS SHALL RETURN TO THE DESIGNATED PRIMARY FLOOR, OPEN DOOR AND REMAIN IN THIS POSITION. IF THE ALARM IS INITIATED ON THE PRIMARY FLOOR, THE ELEVATOR SHALL RETURN TO THE ALTERNATE FLOOR. THE PRIMARY FLOOR SHALL BE 1ST FLOOR (GROUND FLOOR). AN ALTERNATE FLOOR SHALL BE BASEMENT LEVE. TO BE VERIFY WITH FIRE MARSHALL.
4) SIGNAL FROM SMOKE DETECTORS OR GENERAL ALARM SIGNAL FROM FACP TO INITIATE ELEVATOR RECALL SEQUENCE SHALL OVERRIDE ALL OTHER ELEVATOR CONTROL COMMANDS.
5) COORDINATE WITH ELEVATOR MANUFACTURER TO ACCOMPLISH ELEVATOR RECALL SEQUENCE AND ELEVATOR SHUNT TRIP SEQUENCE.

FA18 ELEVATOR/FIRE ALARM INTERFACE – ELEVATOR SHUTDOWN.

1. PROVIDE 135°F HEAT DETECTORS IN ELEVATOR MACHINE ROOMS, AND ELEVATOR SHAFT AND PITS. INSTALL HEAT DETECTORS AT THE HIGHEST POINT IN THE CENTER OF EACH SPACE OR AS REQUIRED BY ROOM AND SPRINKLER HEAD LAYOUTS. CONNECT HEAT DETECTORS TO F.A. SYSTEM. PROVIDE ONE HEAT DETECTOR FOR EACH SPRINKLER HEAD WITHIN 2 FEET.
2. SEQUENCE OF OPERATION
   1) ANY HEAT DETECTOR ACTIVATION WILL ALARM SYSTEM.
   2) ACTIVATION OF ANY HEAT DETECTOR SHALL CAUSE THE CAPTURE OF THAT BANK OF ELEVATORS TO STOP AT NEAREST FLOOR, OPEN THE DOORS TO ALLOW EXIT, CLOSE THE DOOR, AND SHALL CAUSE THE ACTIVATION OF THE ELEVATOR SHUNT TRIP CIRCUIT BREAKER SUPPLYING THE ELEVATOR POWER TO TRIP. UPON COMPLETION OF THESE ACTIONS, ACTIVATE PRE-ACTION SYSTEM RELEASE PANEL.
   3) AUTOMATIC SPRINKLERS WILL NOT DISCHARGE WATER UNLESS OPERATING TEMPERATURES (165°F) ON INDIVIDUAL HEADS ARE REACHED.
3. POWER FOR SHUNT TRIPS TO BE CIRCUITED FROM 120/208V EMERGENCY PANEL.

FA19 PROVIDE DUCT SMOKE DETECTORS IN THE AHU RETURN AIR DUCTS AND/OR IN SUPPLY AIR AS INDICATED ON MECHANICAL DRAWINGS AND/OR FIRE ALARM DRAWINGS. PROVIDE INTERLOCK WITH EACH AHU'S SUPPLY AIR FAN MOTOR STARTER AND/OR THE RETURN AIR FAN STARTERS TO SHUT DOWN FANS ON INITIATION OF DUCT SMOKE DETECTOR OR ALARM SIGNAL. ACTIVATION OF DUCT SMOKE DETECTOR SHALL SEND SIGNAL TO F.A. SYSTEM.
ALL DUCT SMOKE DETECTORS INSTALLED NOT IN DIRECT VIEW SHALL BE INSTALLED WITH THE REMOTE LED INDICATOR. THE REMOTE LED INDICATOR SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW RESPECTIVE DUCT SMOKE DETECTOR.

FA20 GENERAL: ALL FIRE ALARM SYSTEM FIELD RELAYS CONTROLLING OR DEACTIVATING ANY DEDICATED SECURITY DEVICES OR POWER CONTROL DEVICES SHALL BE INSTALLED WITHIN 3' OF CONTROL DEVICE.

FA21 RECEIPT OF ANY ALARM SIGNAL SHALL ACTIVATE VISUAL AND AUDIBLE GENERAL ALARM CONDITION THROUGHOUT THE BUILDING.

FA22 AREA SMOKE DETECTORS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. REFER TO FIRE ALARM SYSTEM MATRIX FOR SEQUENCE OF OPERATION.

FA23 COORDINATE WORK WITH ALL ELECTRICAL, MECHANICAL, OR PLUMBING EQUIPMENT SCHEDULED TO BE INTERLOCK WITH THE NEW FIRE ALARM SYSTEM.

FA25 PROVIDE REQUIRED CLEARANCE AROUND THE PANELS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND NEC. (36" PER NEC)

FA26 THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED SO ANY DAMAGE TO ANY TERMINAL UNIT WILL NOT RENDER MORE THAN ONE CIRCUIT LIMITED TO THE SINGLE ZONE OF THE ELEMENT INOPERATIVE. NO MORE THAN 50% OF FIRE ALARM DEVICES CAN INPERATABLE PER ZONE UPON THE CIRCUIT FELURE.

FA27 THE SYSTEM SHALL BE INSTALLED SO TROUBLE CAN BE READILY DETECTED BY FLOOR AND DEVICE.

FA28 PROVIDE AND ARRANGE THE STROBE AND AUDIBLE CIRCUITS SO THERE SHALL BE MINIMUM OF TWO CIRCUITS PER ZONE ON EVERY FLOOR AND LOSS OF ONE CIRCUIT WILL NOT AFFECT MORE THAN 50% OF DEVICES PER ZONE.

FA29 LOCATION, SIZE, AND FINISH OF THE FIRE ALARM ANNUNCIATOR PANEL(S) SHALL BE COORDINATED WITH ARCHITECT/OWNER/FIRE MARSHALL PRIOR TO FABRICATION.

FA31 PROVIDE 1" CONDUIT FROM FACP TO ELEVATOR MACHINE ROOM FOR CONTROL SIGNAL AND FIRE ALARM INTERFACE. PROVIDE WIRING PER EQUIPMENT SUPPLIER.

FA32 PROVIDE MINIMUM 3/4" E.C. AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO ACCESS CONTROL SYSTEM FOR FIRE ALARM INTERFACE WITH ELECTRIC DOOR LOCKS. ALL STAIR AND OTHER ELECTRIC DOOR LOCKS IN THE PATH OF THE EGRESS SHALL UNLOCK SIMULTANEOUSLY UPON ACTIVATION OF THE FIRE ALARM SYSTEM OR UPON LOS OF PRIMARY POWER TO THE FIRE ALARM SYSTEM.
PROVIDE CONDUIT AND CONTROL WIRING PER EQUIPMENT SUPPLIER REQUIREMENTS.
THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE BETWEEN THE FIRE ALARM AND SECURITY SYSTEM. AN AUXILIARY RELAY CONNECTED TO FIRE ALARM SYSTEM TO UNLOCK DESIGNATED DOORS SHALL BE LOCATED WITHIN 3' OF THE CONTROL DEVICE.

FA33 PROVIDE MINIMUM 3/4" E.C. AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO DOOR HOLDER CONTROLLER FOR FIRE ALARM INTERFACE. PROVIDE CONDUIT AND CONTROL WIRING PER EQUIPMENT SUPPLIERS REQUIREMENTS.
ALL DOOR HOLDERS SHALL BE RELEASE SIMULTANEOUSLY UPON ACTIVATION OF THE FIRE ALARM SYSTEM. PROVIDE SMOKE DETECTOR AT EACH SMOKE DOOR WHERE SHOWN ON THE DRAWING. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE. AN AUXILIARY RELAY CONNECTED TO FIRE FIRE ALARM SYSTEM SHALL BE LOCATED WITHIN 3' OF CONTROL DEVICE.

FA34 PROVIDE MINIMUM 3/4" E.C. AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO EMERGENCY FIRE PUMP CONTROL PANEL FOR FIRE ALARM INTERFACE. PROVIDE CONDUIT AND CONTROL WIRING PER EQUIPMENT SUPPLIERS REQUIREMENTS.

FA35 PROVIDE AUTOMATIC DIALER WITH MINIMUM TWO DEDICATED TELEPHONE LINES. THE DIALER SHALL ENUNCIATE THE ALARM AND TROUBLE CONDITION AT THE SECURITY OFFICE RESPONSIBLE FOR CALLING THE FIRE DEPARTMENT.

FA36 MINIMUM CONDUIT SIZE FOR BRANCH FIRE ALARM CIRCUIT SHALL BE 3/4".

FA37 ALL FIRE ALARM CABINETS AND TERMINAL BOXES SHALL BE PAINTED RED.

FA38 SYSTEM RESET SHALL BE PROVIDED AT FACP IN ELECTRICAL ROOM AND AT ANNUNCIATOR PANEL.

FA39 PROVIDE ALL SYSTEM COMPONENTS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BY THE MANUFACTURER.

FA40 PROVIDE EXTERIOR 10" DIAMETER FIRE BELL AND VISUAL DEVICE AT LOCATION SHOWN ON DWG. E-3. COORDINATE EXACT LOCATION WITH ARCHITECT AND FIRE MARSHAL.

FA41 ALL FIRE ALARM STROBES IN OPEN AREAS, GARAGES, CORRIDORS, LOBBIES AND RETAIL AREAS SHALL BE SYNCHRONIZED SO THE TOTAL FREQUENCY WILL NOT EXCEED 3 Hz. IN ANY SINGLE AREA OF VIEW.

FA42 FIRE ALARM CIRCUIT AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC.

FA43 SUBMITTAL FOR FIRE ALARM SHOP DRAWINGS SHALL INCLUDE POINTS LIST WITH ALL ADDRESSES WRITTEN ON THE DRAWINGS (RISER AND FLOOR PLAN) NEXT TO EVERY DEVICE.

FA44 INSTALL, TEST AND OBTAIN DC FIRE MARSHALL APPROVAL FOR NEW F.A. SYSTEM INCLUDING F.A.C.P AND F.A.A.P.

FA45 FOR ADDITIONAL INFORMATION ON FIRE ALARM SYSTEM SEE SPECIFICATION 13851.

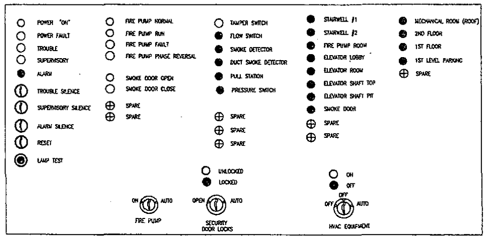
FA46 REFER TO FIRE ALARM SYSTEM MATRIX FOR FIRE ALARM SEQUENCE OF OPERATION.

FA47 ALL FIRE ALARM DEVICES SHALL BE WHITE UNLESS MANDATED TO BE RED BY CODE I.E., FIRE ALARM PULL STATIONS.

FIRE ALARM SYSTEM MATRIX

AREA	EVENT OR DEVICE	GENERAL ALARM	SHUT DOWN ASSOCIATED AIR HANDLING UNIT	RELEASE ALL MAGNETIC DOOR HOLD OPEN DEVICES	RELEASE ALL ELECTRIC DOOR LOCKS	RECALL ELEVATOR TO PRIMARY FL.	RECALL ELEVATOR TO SECONDARY FL.	ACTIVATE ELEVATOR SHUNT TRIP BREAKER	ANNUNCIATE FIRE ALARM AT FAAP/ FACP AND SEND SIGNAL TO CENTRAL STATION	ANNUNCIATE TROUBLE SIGNAL AT FAAP/FACP AND SEND SIGNAL TO CENTRAL STATION	ANNUNCIATE SUPERVISORY SIGNAL AT FACP AND SEND SIGNAL TO CENTRAL STATION
ALL AREAS	SPRINKLER FLOW SWITCH	●		●	●	●			●		
ALL AREAS	MANUAL STATION	●		●	●	●			●		
ALL AREAS	SMOKE DETECTOR	●		●	●	●			●		
SMOKE DOOR	SMOKE DETECTOR	●		●	●	●			●		
ELEVATOR HOIST, PIT & MACHINE ROOM	SMOKE DETECTOR	●		●	●	●			●		
ELEVATOR HOIST, PIT & MACHINE ROOM	HEAT DETECTOR							●			●
ELEVATOR LOBBY PRIMARY FLOOR	SMOKE DETECTOR	●		●	●		●		●		
ELEVATOR LOBBY SECONDARY FLOOR	SMOKE DETECTOR	●		●	●	●			●		
AHU	DUCT DETECTOR	●	●	●	●				●		
THROUGHOUT BUILDING	TAMPER SWITCH										●
THROUGHOUT BUILDING	ANY SYSTEM MALFUNCTION										●

SYSTEM OPERATION



FIRE ALARM ANNUNCIATION PANEL

NO SCALE

LEGENDA
○ GREEN
○ AMBER
● RED
KEY OPERATED 3-POSITION SWITCH
KEY OPERATED 1-POSITION SWITCH
◉ PUSH BUTTON
⊕ SPACE FOR FUTURE LAMP

JAN 22 2007

STORAGE ROOM SMOKE DETECTOR NOTES.

NO SCALE:

① SMOKE DAMPER SHALL BE CLOSED UPON ACTIVATION OF AREA SMOKE DETECTOR INSTALLED IN THE RELATED SMOKE COMPARTMENT. THE SMOKE DETECTOR SHALL ALSO ACTIVATE ALARM MODE IN FIRE ALARM SYSTEM. PROVIDE 120V POWER CIRCUIT TO 80W, 120V SMOKE DAMPER FROM AVAILABLE 120V RECEPTACLE CIRCUIT IN THIS AREA.

SMOKE DETECTOR, DOOR RELEASE NOTES

② THE ELECTROMAGNETIC DOOR HOLDERS SHALL RELEASE DOOR TO CLOSE UPON ACTIVATION OF AREA SMOKE DETECTORS INSTALLED IN IN PROTECTED AREA. THE SMOKE DETECTOR SHALL ACTIVATE ALARM MODE IN THE FIRE ALARM SYSTEM.
THE ELECTROMAGNETIC DOOR HOLDER SHALL RELESE DOOR ALSO UPON ACTIVATION OF ANY ALARM MODE IN THE FIRE ALARM SYSTEM.
THE ELECTROMAGNETIC DOOR HOLDER SHALL RELESE DOOR ALSO UPON LOST OF ELECTRIC POWER TO THE BUILDING.

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SEAL
6/30/06

KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

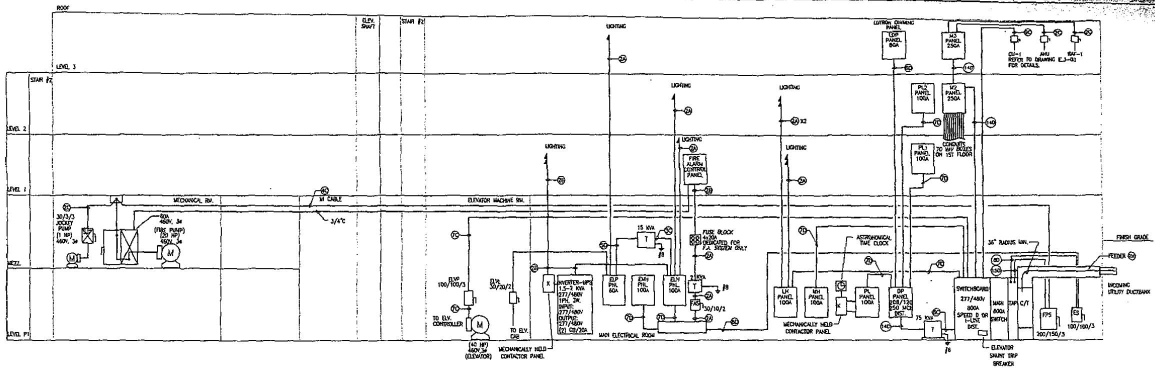
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
FIRE ALARM
RISER DIAGRAM

CONSTRUCTION
DOCUMENTS

SCALE: NONE
SHEET NO. E-5.00
REVISION:

ELECTRICAL



① POWER RISER DIAGRAM NOTES

N.T.S.

GENERAL NOTE:

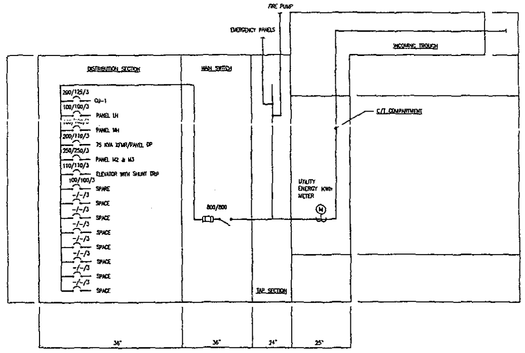
1. ALL EQUIPMENT SHALL BE NEW, UL LISTED.

PEPCO CONDITIONS:

1. CUSTOMER TO OBTAIN ALL PERMITS/PERMISSION REQUIRED BY OTHERS ON PRIVATE PROPERTY.
2. ALL MATERIALS USED ARE TO CONFORM TO PEPCO SPECIFICATIONS. ALL WORK MUST BE DONE IN ACCORDANCE WITH PEPCO'S STANDARDS AND SPECIFICATIONS.
3. ALL WORK SHALL BE DONE IN A MANNER ACCEPTABLE TO PEPCO AND INSPECTED BY PEPCO'S CONDUIT DEPARTMENT BEFORE ENCASEMENT OR BACKFILLING. FOR PROJECTS IN MONTGOMERY COUNTY, CALL 301-670-8808. IN PRINCE GEORGE'S COUNTY CALL 301-967-5420 AND IN DISTRICT CALL 202-265-7177 (48) HOURS IN ADVANCE TO ARRANGE INSPECTION. CALL BETWEEN 7-9 A.M. OR 3-4 A.M. (CUSTOMER MUST FIRST SUBMIT DRAWING OF THE FACILITIES TO BE BUILD FOR PEPCO AND BE APPROVED BY PEPCO.)
4. ALL METERING CURRENT TRANSFORMER MOUNTING DIMENSIONS, DRILLINGS SPACING AND STUDS MUST COMPLY WITH PEPCO SPECIFICATION DRAWING 7-5-606 REVISION A. THE MINIMUM ACCEPTABLE DIMENSIONS, DRILLINGS ETC. FOR PEPCO LINE CONNECTIONS TO C/T CABINET/COMPARTMENTS INCLUDING SAFETY BARRIER WHERE APPLICABLE), MAINLINE SWITCHES AND MAIN INCOMING BUS CABINETS/COMPARTMENTS/SECTIONS ARE SHOWN ON PEPCO PURCHASE SPECIFICATION DRAWINGS 7-5-695 REVISION B AND /OR 7-5-694 REVISION B.
5. CONDUITS TO BE BUILT IN ACCORDANCE WITH PEPCO SPECIFICATION DRAWING NO. 6-1-480 AND CE1.08
   ALL SERVICE CONDUITS MUST BE 4" PVC ENCASED SCHEDULE 40.
   ALL NON-ENCASED CONDUITS MUST BE U.L. LISTED SCHEDULE 40.
6. THE SERVICE EQUIPMENT IS NOT APPROVED AT THIS TIME AND MUST BE APPROVED.
   THE CUSTOMER/ CONTRACTOR MUST SUBMIT:
   FOUR (4) COPIES OF THE SHOP DRAWINGS AND PROFILE VIEW OF THE ELECTRIC ROOM SHOWING WHERE THE EQUIPMENT WILL BE MOUNTED AND FOUR (4) COPIES OF THE MANUFACTURER'S CUTS OF ANY MAIN LINE SWITCH, CURRENT TRANSFORMER CABINET, SWITCHBOARD WITH BUILT-IN COMPARTMENT OR ANY OTHER CUSTOMER FURNISHED SWITCHGEAR FOR REVIEW BY PEPCO.
7. THE MINIMUM MOUNTING HEIGHT FOR METERS IS 30 INCHES TO THE BOTTOM OF THE METER GLASS. MAXIMUM MOUNTING HEIGHT IS 66 INCHES TO THE BOTTOM OF THE METERED GLASS.
8. CUSTOMER TO BUILD 4" 4 WAY CONDUIT FROM NEW SERVICE LOCATION TO EXISTING PEPCO SERVICE VAULT IN STREET (MASS. AVE). SEE CIVIL ENGINEERING PLANS FOR MORE INFORMATION.
9. THE FOLLOWING MINIMUM SEPARATION BETWEEN FOREIGN STRUCTURES AND CONDUITS SHALL BE MAINTAINED.
   TELEPHONE CONDUIT- 3" CONCRETE OR 12" EARTH.
   MINIMUM 5' HORIZONTAL AND 1' VERTICAL FROM ANY OTHER UNDERGROUND UTILITIES.
10. ALL ON SITE STRUCTURAL FACILITIES INCLUDING CONDUITS, SPLICE BOXES, TRANSFORMER PADS ETC. SHALL BE PROVIDED INSTALLED, OWNED AND MAINTAINED BY THE CUSTOMER.
11. SWEEP BENDS MUST HAVE A RADIUS OF NO LESS THAN 36".
12. PEPCO TO PROVIDE AND INSTALL AT COST TO CUSTOMER 2 SETS OF 500 KCMIL CU CABLES TO 800 AMP C/T CABINET.
13. FOR LOCATION OF UTILITIES, CALL 24 HOURS A DAY 1-800-257-7777, 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY.
14. NO MORE THAN 180° OF BENDS OF DUCT LINE.
15. CONDUIT TO HAVE THREE FEET (3') OF COVER (TOP OF DUCT TO FINISHED GRADE).
16. CONDUIT TO BE ENCASED IN 2000 PSI CONCRETE WITH PEA GRAVEL.
    NO METALLIC MATERIALS, (REBARS, HOLD DOWN WIRES ETC.) SHALL BE PERMITTED IN SPACES BETWEEN EACH DUCT.
17. MANHOLES TO BE CONSTRUCTED WITH 3000 PSI CONCRETE.
18. CUSTOMER TO HANG FROM RODS ALL CONDUITS, CLEAR ANY OBSTRUCTION AND PROVIDE NYLON PULL LINES IN EACH [illegible] PRIOR TO INSTALLATION OF PEPCO CABLES.
19. CUSTOMER TO BUILD, OWN AND MAINTAIN ALL STRUCTURAL FACILITIES ON PRIVATE PROPERTY AND BE RESPONSIBLE FOR ANY WATER PROBLEMS.
20. CUSTOMER TO COORDINATE EXACT DEPTH OF ALL STUB-OUTS WITH PEPCO CONSTRUCTION.
22. THE MAXIMUM SIZE OF A SERVICE CONDUCTOR RATED 600V OR LESS SHALL NOT EXCEED 500 KCMIL FOR COPPER OR ALUMINUM CONDUCTOR.
23. THE TROUGH MUST HAVE REMOVABLE COVERS WITH PROVISIONS FOR SEALS, ALL REMOVABLE COVERS TO BE ABLE TO BE HANDLED BY ONE MAN.
24. PEPCO IS TO BE NOTIFIED WITHIN 48 HOURS (2 WORKING DAYS) BEFORE THE SETTING OF ANY POLES, MANHOLES, POURING OF ANY CONCRETE AND/OR THE BACKFILLING OF ANY TRENCH TO MAKE ARRANGEMENTS FOR INSPECTION AND APPROVAL OF THE ON SITE SERVICE CONNECTIONS AND STRUCTURAL EQUIPMENT.
25. NYLUGS USED BY PEPCO REQUIRE NEMA 2-HOLE SPACING.
26. REFER TO PEPCO STANDARD DRAWING CE.01.15 THROUGH CE.01.18 FOR METER EQUIPMENT MOUNTING INFORMATION. REFER TO PEPCO STANDARD DRAWINGS 7-5-0694, 7-5-0695 AND 7-5-0606 FOR SWITCHBOARD WITH BUILD-IN-COMPARTMENT/C.T. CABINET SPECIFICATIONS.
27. PEPCO WILL PROVIDE METERING EQUIPMENT AND METER LOCATION MUST BE APPROVED BY METER DEPARTMENT, 301-670-8817/301-967-5227.
28. ALL CUSTOMER INSTALLATIONS AND EQUIPMENT MUST MEET THE REQUIREMENTS OF LOCAL AUTHORITIES HAVING JUSDICTION AND ALL RULES AND REGULATIONS OF PEPCO.
29. POINT OF SERVICE: PEPCO'S PREFERRED SERVICE LOCATION IS: CLOSE TO PEPCO MANHOLE ON MASSACHUSETTS AVENUE. SEE CIVIL ENGINEERING PLANS FOR ADDITIONAL INFORMATION.
30. 1-800A CURRENT TRANSFORMER CABINET MUST ACCOMMODATE 2 SETS OF 500 KCMIL CU NYLUG WITH 2 HOLE NEMA TYPE DRILLINGS PER PHASE. THIS REQUIRES A 4 WAY (2H X2V) CONCRETE ENCASED CONDUIT. PEPCO HAS CALCULATED THE DEMAND ON THE 800 AMPS TERMINATIONS TO BE LESS THAN THE NAMEPLATE RATING AND WILL INSTALL THE SERVICE CABLES ACCORDINGLY. IT IS THE CUSTOMERS RESPONSIBILITY TO NOTIFY PEPCO WHEN ADDING ADDITIONAL LOAD AND OR MAKING CHANGES ON THESE TERMINATIONS.
31. CUSTOMER TO TERMINATE CONDUIT ABOVE GRADE AND PROVIDE A TROUGH THE WIDTH AND DEPTH OF THE 800 AMP CURRENT TRANSFORMER CABINET (CTC). TROUGH TO BE OPEN ENTIRELY UNDER THE OPENING OF THE 800 AMP CTC. TROUGH SHALL HAVE A REMOVABLE COVER THAT CAN BE HANDLED BY ONE INDIVIDUAL. THERE MUST BE A MINIMUM OF 36" FROM THE STUBBED CONDUITS TO THE TERMINALS OF THE 800 AMP CTC. THIS RESULTS IN A MINIMUM TROUGH HEIGHT OF 24".
32. CUSTOMER TO STUB-OUT 4 INCH 4-WAY PVC CONDUIT TO SERVICE VAULT IN STREET AT A DEPTH OF 36" BELOW FINAL GRADE FOR PEPCO USE ONLY. TO PREVENT WATER LEAKAGE INTO SWITCHGEAR, CONDUIT MUST NOT ENTER DIRECTLY INTO OR OVER CTC.
33. ALL PEPCO NOTES THAT REFER TO THE "CUSTOMER" INDICATE WORK TO BE PROVIDED BY THE CONTRACTOR.

FIRE PUMP & FIRE PUMP ROOM NOTES:

1. PROVIDE MINIMUM 3/4" C. FROM FIRE PUMP CONTROL PANEL TO FIRE ALARM CONTROL PANEL. PROVIDE CONDUIT AND CONTROL WIRING PER F.A. SYSTEM SHOP DRAWING.
2. THE FIRE PUMP SERVICE DISCONNECT MEANS SHALL BE IDENTIFIED AS SUITABLE FOR USE AS SERVICE EQUIPMENT AND SHALL BE LOCKABLE IN THE CLOSED POSITION.
3. THE FIRE PUMPS SERVICE DISCONNECT AND FEEDER SHALL BE ELECTRICALLY SUPERVISED IN THE CLOSED POSITION, BY THE CENTRAL STATION OR THE REMOTE STATION. IN ADDITION, THE LOCAL SIGNAL SHALL CAUSE THE SOUNDING OF THE AUDIBLE SIGNAL AT THE LOCATION COORDINATED WITH FIRE MARSHALL.
   THE FIRE MARSHALL MAY REQUIRE ONLY THE LOCKING OF THE DISCONNECT IN THE CLOSE POSITION.
4. THE FIRE PUMPS SERVICE DISCONNECT SHALL BE MARKED "FIRE PUMP DISCONNECT". THE LETTERS SHALL BE AT LEAST 1" IN HEIGHT. THE SIGN SHALL BE PLACED ON THE FRONT SURFACE OF THE DISCONNECT.
5. PROVIDE PLACARD NEXT TO FIRE PUMP CONTROLLER STATING THE LOCATION OF FIRE PUMP SERVICE DISCONNECT MEANS AND THE LOCATION OF THE KEY.
6. ALL WIRING IN FIRE PUMP ROOM SHALL BE IN RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, LIQUIDTIGHT FLEXIBLE METAL CONDUIT OR "MI" CABLE.
7. ALL ENERGIZED PARTS SHALL BE MOUNTED AT LEAST 12" AFF.
8. ANY FIRE PUMP CONTROL EQUIPMENT SHALL NOT BE MOUNTED ON COMBUSTIBLE BACKBOARDS SUCH AS PLYWOOD.
9. IF THE SENSORS OR REMOTE DEVICES ARE INSTALLED, THEY SHALL BE INSTALLED IN SUCH WAY THAT THEIR OPERATION, CONTROL OR MALFUNCTION WILL NOT PREVENT THE FIRE PUMP FROM STARTING.

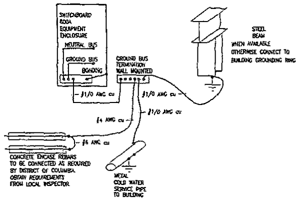


NOTES.

1. BUS BAR IN CT COMPARTMENT SHALL NOT BE MOUNTED LESS THAN 36" A.F.F. TO ACCOMMODATE PEPCO MOUNTING REQUIREMENTS OF METER IN CT COMPARTMENT. SEE PEPCO REQUIREMENTS FOR ADDITIONAL INFORMATION.

④ SWITCHBOARD ELEVATION

N.T.S.


SWITCHBOARD 800A EQUIPMENT ENCLOSURE
NEUTRAL BUS
GROUND BUS
BONDING
GROUND BUS TERMINATION WALL MOUNTED
STEEL BEAM WHEN AVAILABLE OTHERWISE CONNECT TO BUILDING GROUNDING RING
#1/0 AWG cu
#1/0 AWG cu
#1/0 AWG cu
#4 AWG cu
#6 AWG cu
CONCRETE ENCASE REBARS TO BE CONNECTED AS REQUIRED BY DISTRICT OF COLUMBIA. OBTAIN REQUIREMENTS FROM LOCAL INSPECTOR.
METAL COLD WATER SERVICE PIPE TO BUILDING

NOTES.

1. VERIFY WITH LOCAL INSPECTOR POINTS AND FREQUENCY OF CONNECTION TO CONCRETE ENCASED REBARS.
2. VERIFY WITH LOCAL INSPECTOR THE QUANTITIES OF STEEL COLUMNS TO BE CONNECTED TO GROUNDING SYSTEM.

③ GROUNDING DETAIL

N.T.S.

ELEVATOR NOTES:

1. ALL ELEVATOR RELATED EQUIPMENT, DEVICES, CONTROLS, AND SYSTEMS SHALL BE INSTALLED AND TESTED IN FULL COMPLIANCE WITH ASME A17.1, NEC, AND ALL LOCAL JURISDICTIONAL CODES.
2. PROVIDE LIGHT FIXTURE AND SWITCH FOR EACH ELEVATOR PIT. LOCATE SWITCH FOR ELEVATOR PIT LIGHT FIXTURE NEAR TOP OF PIT LADDER AS RECOMMENDED BY MANUFACTURER, AND IN ACCORDANCE WITH LOCAL JURISDICTIONAL CODES. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATOR PIT DETAILS.
3. PROVIDE 125 VOLT, 20 AMP SINGLE PHASE DUPLEX RECEPTACLE FOR EACH ELEVATOR PIT. RECEPTACLE SHALL BE OF GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) TYPE. PROVIDE WEATHERPROOF DEVICE PLATE.
4. ALL 125 VOLT, 20 AMP SINGLE PHASE DUPLEX RECEPTACLES INSTALLED IN ELEVATOR MACHINE ROOMS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION.
5. ALL FLUORESCENT STRIP LIGHT FIXTURES INSTALLED IN ELEVATOR MACHINE ROOMS AND IN ELEVATORS MACHINE CONTROLLER ROOMS SHALL HAVE PROTECTIVE WIRE GUARDS. COORDINATE LIGHT FIXTURE LOCATION WITH ELEVATOR EQUIPMENT AND LOCATE TO PROVIDE PROPER ILLUMINATION OF EQUIPMENT AND WALKWAYS. FIXTURE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE. INSTALL LIGHT FIXTURES IN ACCORDANCE WITH ALL LOCAL JURISDICTION CODES. INSTALL LIGHTING SWITCH WITHIN 18" OFF THE LOCK - JAMB SIDE. MINIMUM ILLUMINATION LEVEL SHALL BE 20FC MEASURED AT FLOOR LEVEL.
6. COORDINATE ALL FUSE SIZES, CIRCUIT BREAKERS, AND FEEDERS FOR ELEVATOR EQUIPMENT WITH THE ELEVATOR MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN. INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
7. LOCATE ALL POWER, FIRE ALARM, SECURITY AND COMMUNICATIONS ROUGH-INS AND WIRING AS RECOMMENDED BY THE ELEVATOR SUPPLIER/INSTALLER.
8. REFER TO ALL RISER DIAGRAMS FOR REQUIREMENTS.
9. ALL ELEVATORS SHALL BE TESTED ON GENERATOR UNDER FULL RATED LOAD IN ACCORDANCE WITH ASME A17.1.
10. ALL ELECTRICAL FEEDERS AND BRANCH CIRCUITS WITHIN ELEVATOR MACHINE ROOMS SHALL BE ENCLOSED IN EMT WITH A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR.
11. LOCATE ALL SAFETY SWITCHES AND CIRCUIT BREAKERS ADJACENT TO THE DOOR OF THE ELEVATOR MACHINE ROOM. ALL SAFETY SWITCHES AND CIRCUIT BREAKERS SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION ONLY. PROVIDE CLEARANCE AROUND SAFETY SWITCHES AND CIRCUIT BREAKERS IN ACCORDANCE WITH NEC.
12. PROVIDE TWO 120V, 20A, SINGLE PHASE CIRCUITS PER CAR CONTROLLER FOR CAR LIGHT, FAN. PROVIDE LOCKABLE LOCK IN OPEN POSITION DISCONNECT SWITCH. INSTALL DISCONNECT IN GROUP WITH OTHER SERVICE ELEVATOR DISCONNECTS IN LOCATION BY THE ENTRY DOOR AS REQUIRED.
13. PROVIDE 120V, 15A 1-POLE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN OPEN POSITION AND SHALL BE LOCATED PER EQUIPMENT SUPPLIER LAYOUT. THIS POWER CIRCUIT SHALL BE DEDICATED FOR REMOTE MONITORING
14. ONLY EQUIPMENT USED IN CONJUNCTION WITH THE FUNCTION OF THE ELEVATOR SHALL BE PERMITTED IN THE ELEVATOR CONTROL ROOM AND ELEVATOR MACHINE SPACES.
15. PROVIDE DEDICATED OUTSIDE TELEPHONE LINES TO EACH ELEVATOR MACHINE ROOM AS REQUIRED BY SECURITY AND SAFETY SYSTEM. COORDINATE QUANTITY AND LOCATIONS OF TELEPHONE LINES WITH SECURITY/SAFETY SYSTEM SUPPLIER/INSTALLER.
16. FOR HYDRAULIC ELEVATORS, PROVIDE (2) FIELD CONVERTIBLE AUXILIARY DRY CONTACTS INSTALLED IN MAIN LINE DISCONNECT SWITCH IN THE ELEVATOR MACHINE ROOM. COORDINATE CONTACT CONFIGURATIONS (NORMALLY OPEN, NORMALLY CLOSED)) WITH ELEVATOR SUPPLIER/INSTALLER.
17. FOR HYDRAULIC ELEVATORS, PROVIDE 120V, 20A SINGLE PHASE WIRING TO BATTERY OPERATED EMERGENCY POWER SYSTEM.
18. PROVIDE WIRING IN 3/4"C FROM SMOKE DETECTOR SENSING DEVICE AUXILIARY CONTACTS TO THE ELEVATOR CONTROLLERS. COORDINATE THIS WORK WITH ELEVATOR EQUIPMENT SUPPLIER.
    A. FOR EACH GROUP OF ELEVATORS PROVIDE NORMALLY CLOSED CONTACT REPRESENTING THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING.
    B. FOR EACH GROUP OF ELEVATORS PROVIDE NORMALLY CLOSED CONTACT REPRESENTING ALL SMOKE DETECTORS LOCATED IN ELEVATOR LOBBIES, ELEVATOR SHAFTS, ELEVATOR CONTROLLERS ROOM AND ELEVATOR MACHINE ROOM (SPACES). THIS SHALL BE PROVIDED SEPARATELY FROM THE SMOKE DETECTOR LOCATED AT DESIGNATED LANDINGS (SEE ABOVE).
    C. COORDINATE WITH ELEVATOR SUPPLIER /INSTALLER EXACT REQUIREMENT FOR SMOKE DETECTORS CONTACTS CONFIGURATION AND CONNECTION AT DESIGNATED LANDING AND ALTERNATIVE LANDING IN RESPECT TO SMOKE DETECTORS LOCATED IN ELEVATOR SHAFT.
19. PROVIDE SHUNT TRIP CIRCUIT BREAKER AS SHOWN ON DRAWING TO SHUT DOWN THE TO AFFECTED ELEVATORS PRIOR TO THE APPLICATION OF SPRINKLER WATER. PROVIDE EACH SHUNT TRIP BREAKER WITH CONDUIT AND WIRING TO ASSOCIATED ELEVATOR CONTROLLERS.
20. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM ELEVATOR MACHINE CONTROLLER TO CONTROL/INDICATOR PANEL REMOTELY LOCATED IN LOBBY. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION.

THEREFORE, ACTUAL [illegible] SHALL BE BASED ON [illegible]

COPPER WIRE & CONDUIT SIZING SCHEDULE

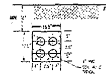
UNLESS OTHERWISE NOTED

AMPS	TAG	WIRE SIZE (AWG/KCMIL)		NO. OF WIRES & CONDUIT SIZE (INCHES)			
				A	B	C	D
		CONDUCTOR PHASE AND NEUTRAL	GROUND	1PH, 2W+G	1PH, 3W+G	3PH, 3W+G	3PH, 4W+G
15	1	14	14	3/4	3/4	3/4	3/4
20	2	12	12	3/4	3/4	3/4	3/4
30	3	10	10	3/4	3/4	3/4	3/4
50	4	8	10	3/4	3/4	3/4	3/4
65	5	6	10	3/4	1	1	1¼
85	6	4	8	1	1¼	1¼	1¼
100	7	3	8	1	1¼	1¼	1¼
115	8	2	6	1¼	1¼	1¼	1½
130	9	1	6	1¼	1½	1½	2
150	10	1/0	6	1½	2	2	2
175	11	2/0	6	1½	2	2	2½
200	12	3/0	6	2	2	2	2½
230	13	4/0	4	2	2½	2½	2½
255	14	250	4	2	2½	2½	3
285	15	300	4	2½	3	3	3
310	16	350	4	2½	3	3	3
335	17	400	4	2½	3	3	3
380	18	500	3	3	3½	3½	4
420	19	600	3	3	3½	3½	4
460	20	(2) 4/0	(2) 2	–	2½	2½	2½
510	21	(2) 250	(2) 2	–	2½	2½	3
570	22	(2) 300	(2) 1	–	4	4	4
620	23	(2) 350	(2) 1	–	3	3	3
670	24	(2) 400	(2) 1/0	–	3	3	3
760	25	(2) 500	(2) 1/0	–	3½	3½	4
840	26	(2) 600	(2) 1/0	–	3½	3½	4
930	27	(3) 350	(3) 2/0	–	3	3	3
1005	28	(3) 400	(3) 2/0	–	3	3	3
1140	29	(3) 500	(3) 2/0	–	3½	3½	4
1260	30	(3) 600	(3) 3/0	–	3½	3½	4
1240	31	(4) 350	(4) 3/0	–	3	3	3
1340	32	(4) 400	(4) 4/0	–	3	3	3
1520	33	(4) 500	(4) 4/0	–	3½	3½	4

FEEDER SCHEDULE NOTES:

1. THE SCHEDULE IS BASED ON COPER CONDUCTOR RATED 0-2000V WITH INSULATION LISTED IN NEC TABLE 310-16 FOR 75°C AMBIENT TEMPERATURE.

(7D) NUMBER INDICATES CONDUCTOR SIZE AND LETTER INDICATES THE CONDUIT SIZE.



② CROSS SECTION 4-WAY DUCTBANK (H2xV2) SERVICE RUN #1 FROM PEPCO STRUCTURE

SCALE: N.T.S.

SERVICE ENTRANCE DUCTBANK NOTES:

1. CONTRACTOR SHALL SECURE APPROVAL FROM PEPCO FOR PROPOSED SERVICE ENTRANCE INSTALLATIONS. COORDINATE THE ENTIRE INSTALLATION WITH PEPCO POWER.
2. THE INNER SURFACE OF CONDUITS SHALL BE FREE OF OBSTRUCTIONS THAT MAY DAMAGE CABLING DURING INSTALLATION. CONTRACTOR SHALL INSTALL PLUGS OR EQUIVALENT IN ALL CUSTOMER OWNED CONDUIT TO PREVENT DIRT OR DEBRIS FROM ENTERING.
3. CONCRETE SHALL BE VIBRATED TO ELIMINATE VOIDS.
4. CONTRACTOR SHALL WATER-SEAL ALL CONDUITS ENTERING THE BUILDING.
5. PROVIDE PULL STRING IN ALL CONDUITS, INCLUDING SPARE CONDUITS.

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CENTER
Washington, D.C.

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SEAL
RICHARD R. SCHAEFER
6/30/04

KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/0
	90% CONST. DOCUMENTS	06/16/0
	50% CONST. DOCUMENTS	05/10/0
	100% DESIGN DEVELOPMENT	02/17/0
	50% DESIGN DEVELOPMENT	10/24/0

PROJECT NO. W050002
DATE: 06-30-

SHEET TITLE
ELECTRICAL
RISER DIAGRAM

CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO.
E.5-01

REVISION

HELLMUTH, OBATA & KASSABAUM, P.C.

ELECTRICAL

SWITCHBOARD POWER AND DISTRIBUTION SCHEDULE

800A BUS, 460/265 VOLTAGE, 3 PHASE, 4 WIRES +G. U.O.N., 65KA AIC

	CKT. NO.	EQUIPMENT	LOAD (H.P.) KVA	BRANCH DEVICE FRAME (AMPS)	BRANCH DEVICE TRIP (AMPS)	BRANCH DEVICE POLES	FEEDER N=NEUTRAL, G=GROUND
TAP SECTION	TAP	FIRE PUMP	23	-	-	3	#8, N,G
	TAP	LIFE SAFETY	30	-	-	3	3/0 AWG, N,G
MAIN	MS	MAIN	-	800	800	3	N,G
DISTRIBUTION SECTION	1	CU-1	62	200	125	3	N,G
	2	PANEL LH	15	100	100	3	N,G
	3	PANEL WH	23	100	100	3	N,G
	4	TRANSFORMER/DP (75 KVA)	75	200	110	3	G
	5	W2 & W3 PANELS	116	250	250	3	N,G
	6	ELEVATOR W/SHUNT TRIP	50	110	110	3	4/0 AWG, 4/0 N, G
	7	SPARE	-	100	100	3	N,G
	8	SPACE	-	-	-	3	N,G
	9	SPACE	-	-	-	3	-
	10	SPACE	-	-	-	3	
	11	SPACE	-	-	-	3	
	12	SPACE	-	-	-	3	
	13	SPACE	-	-	-	3	
	14	SPACE	-	-	-	3	
		TOTAL CONNECTED LOAD	394				

PANEL: W2
LOCATION: LEVEL 2
BUILDING: -
FED FROM: SWITCHBOARD
FEEDER SIZE: SEE RISER

265/460 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 250 AMPS
MAIN BRK 250 AMPS - P
NEUTRAL - AIC 25KA
■ LUGS ONLY
FEED: ☐ TOP ■ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	VAV 1-2	3.0	5.0			2.0	VAV 1-5	20	2
3			3.0		5.0		2.0			4
5	20	VAV 1-4	3.0			5.0	2.0	VAV 2-4	20	6
7	20	VAV 1-8	3.8	5.8			2.0	VAV 1-6	20	8
9			3.8		5.8		2.0			10
11	20	VAV 1-10	3.0			5.0	2.0	VAV 2-2	20	12
13			3.0	6.0			3.0	VAV 2-3	20	14
15	20	VAV 1-11	3.0		6.0		3.0	VAV 2-6	20	16
17			3.0			6.0	3.0			18
19	20	VAV 1-7	2.5	2.5			-	SPARE	20	20
21			2.5		3.5		1.0	VAV 2-1	20	22
23	20	VAV 1-9	3.0			3.0	3.0	VAV 2-5	20	24
25			3.0	3.0			-	-	-	26
27	-	-	-		-		-	-	-	28
29	-	-	-			-	-	-	-	30
31	-	-	-	-			-	-	-	32
33	-	-	-		-		-	-	-	34
35	2.0	WALL HEATER 1,S2	1.0			1.0	-	-	-	36
37	20	WALL HEATER 1,S3	1.0	1.0			-	-	-	38
39	20	VAV 1-3	2.0		2.0		-	-	-	40
41			2.0			2.0	-	-	-	42
CONNECTED LOAD TOTAL = 65.6			39.6	-	-	-	26.0			

TOTAL CONNECTED FOR TWO PANELS = 115.5
TOTAL MECHANICAL 116 X 1.0 DEM= 116
PROVIDE FEED THROUGH LUGS WITH THIS PANEL.
TOTAL DEMAND 116 + 25% LARGEST= 119
TOTAL LOAD 119 KVA 150 AMPS

PANEL: W3
LOCATION: LEVEL 3
BUILDING: -
FED FROM: W2
FEEDER SIZE: SEE RISER

265/460 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 250 AMPS
MAIN BRK 250 AMPS - P
NEUTRAL - AIC 25KA
■ LUGS ONLY
FEED: ☐ TOP ■ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	AHU-1	3.7	8.7			5.0	VAV 3-1	25	2
3			3.7		8.7		5.0			4
5			3.7			8.7	5.0			6
7	20	RF-1	2.9	7.9			5.0	VAV 3-2	25	8
9			2.9		7.9		5.0			10
11			2.9			7.9	5.0			12
13	20	UH-1	3.0	3.0			-	-	-	14
15	-	-	-		-		-	-	-	16
17	-	-	-			-	-	-	-	18
19	-	-	-	-			-	-	-	20
21	-	-	-		-		-	-	-	22
23	-	-	-			-	-	-	-	24
25	-	-	-	-			-	-	-	26
27	-	-	-		-		-	-	-	28
29	-	-	-			-	-	-	-	30
19	-	-	-	-			-	-	-	20
21	-	-	-		-		-	-	-	22
23	-	-	-			-	-	-	-	24
25	-	-	-	-			-	-	-	26
27	-	-	-		-		-	-	-	28
29	-	-	-			-	-	-	-	30
CONNECTED LOAD TOTAL = 49.8			19.8	16.6	16.6	16.6	30.0			

PROVIDE FEED THROUGH LUGS WITH THIS PANEL.

PANEL: PL1
LOCATION: 1ST FLOOR
BUILDING: -
FED FROM: DP
FEEDER SIZE: SEE RISER

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ☐ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 100 AMPS
MAIN BRK 100 AMPS - P
NEUTRAL 100% X AIC 10KA
■ LUGS ONLY
FEED: ☐ TOP ☐ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	FELLOWSHIP ROOM DOWNLIGHTS	0.5	1.3			0.8	REFRIGERATOR	20	2
3	20	ENTRY ROOM DOWNLIGHTS & WW	0.7		2.1		1.4	DISHWASHER	20	4
5	20	RECEPTACLES	1.1			2.1	1.0	DISPOSER	20	6
7	20	RECEPTACLES	1.1	2.0			0.9	MICROWAVE	20	8
9	20	RECEPTACLES	1.1		2.4		1.3	COFFEE MAKER	20	10
11	20	RECEPTACLES	1.1			2.8	0.7	ABOVE COUNTER RECEPTACLES	20	12
13	20	RECEPTACLES	1.1	1.4			0.3	VAV ACTUATORS	20	14
15	20	RECEPTACLES	1.1		1.6		0.5	VAV ACTUATORS	20	16
17	20	RECEPTACLES	1.1			1.4	0.3	VAV ACTUATORS	20	18
19	20	RECEPTACLES	1.1	1.6			0.5	DATA ROOM RECEPTACLE	20	20
21	20	DISPLAY & POKE-THRU RECEPT.	0.8		1.1		0.3	DATA ROOM QUAD	20	22
23	20	OFFICE RECEPTACLE	0.7			1.2	0.5	DATA ROOM SPECIAL RECEPTACLE	20	24
25	20	OFFICE RECEPTACLE	0.7	1.2			0.5			26
27	20	WATER HEATER	1.5		1.8		0.3	SECURITY BACKBOARD QUAD	20	28
29			1.5			1.8	0.3	TELEPHONE BACKBOARD QUAD.	20	30
31	20	WATER HEATER	1.5	0.5			0.5	HVAC CONTROL PANEL	20	32
33			1.5		-		-	-	-	34
35	-	-	-			-	-	-	-	36
37	-	-	-	-			-	-	-	38
39	-	-	-		-		-	-	-	40
41	-	-	-			-	-	-	-	42
CONNECTED LOAD TOTAL = 23.3 KVA			12.2	8.0	7.5	7.8	10.1			

TOTAL LIGHTING 1.2 X 1.0 DEM= 1.2
TOTAL RECEPTACLES 14.6 X DEM 12.3
MISCELLANEOUS 7.0 X 1.0 DEM 7.0
TOTAL DEMAND 20.5 X 1.25 SPARE= 25.6
TOTAL LOAD 25.6 KVA 71.2 AMPS

PANEL: EWH
LOCATION: MAIN ELEC. ROOM
BUILDING: -
FED FROM: EMERGENCY TAP
FEEDER SIZE: SEE RISER

265/460 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 100 AMPS
MAIN BRK 100 AMPS - P
NEUTRAL 100% AIC 35KA
■ LUGS ONLY
FEED: ☐ TOP ■ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	DRY PIPE COMPRESSOR	0.6	3.1			2.5	STORM SUMP PUMP	20	2
3			0.6		3.1		2.5			4
5			0.6			3.1	2.5			6
7	20	GARAGE DOOR (1.5HP)	0.8	4.8			4.0	SEWAGE EJECTOR	20	8
9			0.8		4.8		4.0			10
11			0.8			4.8	4.0			12
13	20	SPARE	-	-			-	-	-	14
15			-		-		-	-	-	16
17			-			-	-	-	-	18
19	-	-	-	-			-	-	-	20
21	-	-	-		-		-	-	-	22
23	-	-	-			-	-	-	-	24
25	-	-	-	-			-	-	-	26
27	-	-	-		-		-	-	-	28
29	-	-	-			-	-	-	-	30
CONNECTED LOAD TOTAL = 23.7 KVA			19.2	-	-	-	19.5			

TOTAL MECHANICAL 23.7 X 1.0 DEM= 23.7
TOTAL RECEPTACLES - X DEM -
TOTAL DEMAND 23.7 + 25% LARGEST = 28
TOTAL LOAD 28 KVA 35 AMPS

PANEL: LH
LOCATION: PARKING LEVEL 1
BUILDING: -
FED FROM: SWITCHBOARD
FEEDER SIZE: SEE RISER

265/460 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 100 AMPS
MAIN BRK 100 AMPS - P
NEUTRAL - AIC 35KA
■ LUGS ONLY
FEED: ☐ TOP ■ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	PARKING LEVEL LIGHTING	1.4	-			0.8	1ST LEVEL EXTERIOR LIGHTING	20	2
3	20	PARKING LEVEL LIGHTING	1.8		-		0.4	SPARE	20	4
5	20	STAIR LIGHTING PS.1	0.6			-	0.7	3RD LEVEL LIGHTING	20	6
7	20	STAIR LIGHTING PS.2 & PS.3	0.5	-			-	-	-	8
9	20	MAIN ELECTRICAL ROOM LIGHTING	0.8		-		-	-	-	10
11	20	1ST LEVEL LIGHTING	0.9			-	-	-	-	12
13	20	1ST LEVEL LIGHTING	2.8	-			-	-	-	14
15	20	2ND LEVEL LIGHTING	2.5		-		-	-	-	16
17	20	2ND LEVEL LIGHTING (CORRIDOR)	0.5			-	-	-	-	18
19	-	-	-	-			-	-	-	20
21	-	-	-		-		-	-	-	22
23	-	-	-			-	-	-	-	24
25	-	-	-	-			-	-	-	26
27	-	-	-		-		-	-	-	28
29	-	-	-			-	-	-	-	30
CONNECTED LOAD TOTAL = 14 KVA			11.8				1.9			

TOTAL LIGHTING 14 X 1.0 DEM= 14
TOTAL RECEPTACLES - X DEM -
TOTAL DEMAND 14 X 1.25 SPARE= 17.5
TOTAL LOAD 17.5 KVA 22 AMPS

PANEL: PL
LOCATION: MAIN ELEC. ROOM
BUILDING: BUDDHIST CULTURAL CENTER
FED FROM: DP
FEEDER SIZE: SEE RISER

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ☐ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 100 AMPS
MAIN BRK 100 AMPS - P
NEUTRAL 100% AIC 10KA
■ LUGS ONLY
FEED: ☐ TOP ☐ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	WATER FOUNTAIN CONTROL PANEL	1.2	2.1			0.9	PARKING LEVEL RECEPTACLES	20	2
3			1.2		2.3		1.1	PARKING LEVEL RECEPTACLES	20	4
5			1.2			2.4	0.7	PARKING LEVEL RECEPTACLES	20	6
7	20	EXTERIOR POOL LIGHTS	0.3	0.8			0.5	MAIN ELEC. ROOM EXH. FAN 1/8hp	20	8
9	20	EXTERIOR SIGN & FLAG LIGHTS	0.2		-		-	-	-	10
11	20	EXTERIOR DRIVEWAY ISLE LIGHTS	0.4			-	-	-	-	12
13	20	EXTERIOR FRONT FACADE LIGHTS	0.4	-			-	-	-	14
15	-	-	-		-		-	-	-	16
17	-	-	-			-	-	-	-	18
19	-	-	-	-			-	-	-	20
21	-	-	-		-		-	-	-	22
23	-	-	-			-	-	-	-	24
25	-	-	-	-			-	-	-	26
27	-	-	-		-		-	-	-	28
29	-	-	-			-	-	-	-	30
CONNECTED LOAD TOTAL = 7.3 KVA			3.6	2.6	2.3	2.4	3.2			

TOTAL LIGHTING 3.6 X 1.0 DEM= 3.6
TOTAL RECEPTACLES 3.7 X DEM 3.7
TOTAL DEMAND 7.3 X 1.25 SPARE= 9.2
TOTAL LOAD 9.2 KVA 25 AMPS

PANEL: PL2
LOCATION: 2ND FLOOR
BUILDING: -
FED FROM: DP
FEEDER SIZE: SEE RISER

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ☐ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 100 AMPS
MAIN BRK 100 AMPS - P
NEUTRAL 100% AIC 10KA
■ LUGS ONLY
FEED: ☐ TOP ☐ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	SMALL STUDY DOWNLIGHTING	0.3	0.7			0.4	RECEPTACLE IN MECHANICAL ROOM	20	2
3	20	RECEPTACLES	0.4		1.5		1.1	TEF-1 IN MECH. RM.	20	4
5	20	RECEPTACLES	0.4			0.9	0.5	DH-1 CONTROLS IN MECH. RM.	20	6
7	20	RECEPTACLES	0.9	1.4			0.5	VAV ACTUATOR IN MECH. RM.	20	8
9	20	RECEPTACLES	0.5		0.9		0.4	RECEPTACLE IN MECHANICAL ROOM	20	10
11	20	RECEPTACLES	1.1			1.1	-	-	-	12
13	20	RECEPTACLES	1.1	1.1			-	-	-	14
15	20	RECEPTACLES	1.3		1.3		-	-	-	16
17	20	WATER FOUNTAIN	0.7			0.7	-	-	-	18
19	20	OVERHEAD PROJECTOR	1.5	1.5			-	-	-	20
21	20	2ND LEVEL ACTUATORS	0.2		-		-	-	-	22
23	-	-	-			-	-	-	-	24
25	-	-	-	3.1			3.1	LUTRON DIMMING PANEL	60	26
27	-	-	-		2.5		2.5			28
29	-	-	-			2.6	2.6			30
CONNECTED LOAD TOTAL = 18.9 KVA			8.2	7.8	6.2	5.3	10.7			

TOTAL LIGHTING 9 X 1.0 DEM= 9
TOTAL RECEPTACLES 9.9 X DEM 9.9
TOTAL DEMAND 18.9 X 1.25 SPARE= 24
TOTAL LOAD 24 KVA 67 AMPS

PANEL: WH
LOCATION: MAIN ELEC. ROOM
BUILDING: -
FED FROM: SWBD
FEEDER SIZE: SEE RISER

265/460 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 100 AMPS
MAIN BRK 100 AMPS - P
NEUTRAL 100% AIC 35KA
■ LUGS ONLY
FEED: ☐ TOP ■ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	EXHAUST FAN	1.0	3.1			3.0	UH-1	20	2
3			1.0		3.1		-	SPARE	20	4
5			1.0			3.1	-	SPARE	20	6
7	20	WALL HEATER	1.5	5.5			4	DOMESTIC BOOSTER PUMPS	20	8
9	20	WALL HEATER	1.5		5.5		4			10
11	20	WALL HEATER	1.5			5.5	4			12
13	20	SPARE	-	-			-	-	-	14
15	20	SPARE	-		-		-	-	-	16
17	20	SPARE	-			-	-	-	-	18
19	-	-	-	-			-	-	-	20
21	-	-	-		-		-	-	-	22
23	-	-					-	-	-	24
25	-	-	-	-			-	-	-	26
27	-		-		-		-	-	-	28
29	-		-			-	-	-	-	30
CONNECTED LOAD TOTAL = 22.5 KVA			7.5	-	-	-	15			

TOTAL MECHANICAL 22.5 X 1.0 DEM= 22.5
TOTAL RECEPTACLES - X DEM -
TOTAL DEMAND 22.5 + 25% LARGEST= 28
TOTAL LOAD 28 KVA 35 AMPS

PANEL: ELP
LOCATION: MAIN ELEC. ROOM
BUILDING: -
FED FROM: ELH VIA 30 KVA XFMR
FEEDER SIZE: SEE RISER

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 60 AMPS
MAIN BRK 40 AMPS 3 P
NEUTRAL 100% AIC 10KA
☐ LUGS ONLY
FEED: ■ TOP ☐ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	EMERGENCY LIGHTS-SANCTUARY	0.3	0.8			0.5	SECURITY SYSTEM	20	2
3	20	ELEVATOR PIT SUMP PUMP	1.2		1.2		-	-	-	4
5	20	ELEVATOR PIT LIGHTS	0.4			0.4	-	-	-	6
7	20	ELEVATOR CAB LIGHTS.	0.2	0.2			-	-	-	8
9	20	ELEVATOR CAB LIGHTS	0.2		0.2		-	-	-	10
11	-	-	-			-	-	-	-	12
CONNECTED LOAD TOTAL = 2.8 KVA			2.3	1.0	1.4	0.4	0.5			

TOTAL LIGHTING 3 X 1.0 DEM= 3
TOTAL RECEPTACLES - X DEM -
TOTAL DEMAND 3 X 1.25 SPARE= 4
TOTAL LOAD 4 KVA 11 AMPS

PANEL: ELH
LOCATION: MAIN ELEC. ROOM
BUILDING: -
FED FROM: TAP SECTION
FEEDER SIZE: SEE RISER

277/460 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 60 AMPS
MAIN BRK 60 AMPS 3 P
NEUTRAL 100% AIC 25KA
☐ LUGS ONLY
FEED: ■ TOP ☐ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	20	PARKING LEVEL LIGHTING	0.8	-			0.6	INVERTER UPS 1.5- 2KVA	20	2
3	20	ELEVATOR MACHINE ROOM LIGHTING	0.1		-		0.8		20	4
5	20	STAIR EMEREGENCY LIGHTS PS.1	0.1			-	-	-	-	6
7	20	STAIR EMEG. LIGHTS PS.2 & PS.3	0.3	-			5	PANEL ELP VIA 15 KVA XMFR	25	8
9	20	1ST LEVEL EMERGENCY LIGHTING	0.7		-		5			10
11	20	2ND LEVEL EMERGENCY LIGHTING	0.3			-	5			12
13	-	SPACE	-	-			-	SPACE	-	14
15	-	SPACE	-		-		-	SPACE	-	16
17	-	SPACE	-			-	-	SPACE	-	18
CONNECTED LOAD TOTAL = 18.7KVA			2.3				16.4			

TOTAL LIGHTING [illegible] X 1.0 DEM= [illegible]
TOTAL RECEPTACLES - X DEM -
TOTAL DEMAND 9 X 1.25 SPARE= 10
TOTAL LOAD 10 KVA 33 AMPS

PANEL: LUTRON DIMMING PANEL
LOCATION: 3RD FLOOR
BUILDING: -
FED FROM: DP
FEEDER SIZE: SEE RISER

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ☐ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 80 AMPS
MAIN BRK 50 AMPS 3 P
NEUTRAL 100% AIC 10KA
■ LUGS ONLY
FEED: ☐ TOP ☐ BOTTOM

CKT. NO.	TRIP AMPS	LOAD TYPE	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	LOAD TYPE	TRIP AMPS	CKT. NO.
1	15	MOTOR	PROJ. LOWER. MECHANISM	0.5	1.3			0.8	FIXTURE TYPE J	INCAND. PAR 38	15	2
3	15	MOTOR	PROJ. SCREEN	0.5		1.3		0.8	FIXTURE TYPE J	INCAND. PAR 38	15	4
5	20	FLUOR. T5	FIXTURE TYPE C	1.3			1.8	0.5	FIXTURE TYPE X	INCAND. A19	15	6
7	20	FLUOR. T5	FIXTURE TYPE G	1.3	1.8			0.5	FIXTURE TYPE K	INCAND. A19	15	8
9	15	FLUOR. T5	FIXTURE TYPE G	0.4		1.2		0.8	FIXTURE TYPE H	INCAND. PAR 38	15	10
11	15	-	SPARE	-			0.8	0.8	FIXTURE TYPE H	INCAND. PAR 38	15	12
CONNECTED LOAD TOTAL = 8.2 KVA				4.0	3.1	2.5	2.6	4.2				

TOTAL LIGHTING 8.2 X 1.0 DEM= 8.2
TOTAL DEMAND 8.2 X 1.25 SPARE= 10.3
TOTAL LOAD 10.3 KVA 29 AMPS

PANEL: DP
LOCATION: PARKING LEVEL 1
BUILDING: -
FED FROM: SWITCHBOARD VIA 75KVA XFMR
FEEDER SIZE: SEE RISER

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ☐ SURFACE ■ FLUSH
COPPER BUS ■ ALUMINUM BUS ☐
ISOLATED GROUND BUS ☐
GROUND BUS ■ • SHUNT TRIP BRKR.

MAIN BUS 250 AMPS
MAIN BRK 250 AMPS 3 P
NEUTRAL - AIC 42KA
☐ LUGS ONLY
FEED: ■ TOP ☐ BOTTOM

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	100	PANEL PL	3	-			7	PANEL PL2	100	2
3			3		-		7			4
5			3			-	7			6
7	100	PANEL PL1	8	-			4	LUTRON DIMMING PANEL	80	8
9			8		-		4			10
11			8			-	4			12
13	-	-	-	-			-	-	-	14
15	-	-	-		-		-	-	-	16
17	-	-	-			-	-	-	-	18
19	-	-	-	-			-	-	-	20
21	-	-	-		-		-	-	-	22
23	-	-	-			-	-	-	-	24
CONNECTED LOAD TOTAL =66 KVA			33				33			

TOTAL ALL 16 X 1.0 DEM= 16
TOTAL RECEPTACLES 50 X DEM 34
TOTAL DEMAND 50 X 1.25 SPARE= 63
TOTAL LOAD 63 KVA 175 AMPS

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SEAL
RICHARD R. SCH
6/30/06

KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

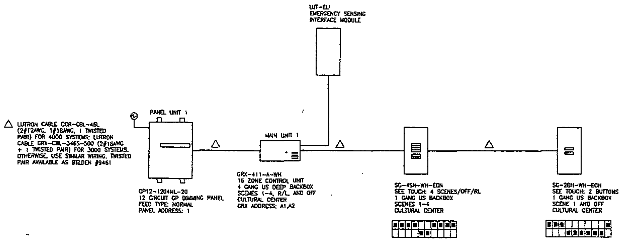
SHEET TITLE
ELECTRICAL PANEL SCHEDULES

CONSTRUCTION DOCUMENTS

SCALE: NONE
SHEET NO. E.6-00
REVISION:

ELECTRICAL

FIXT. TYPE	DESCRIPTION	LAMPS				BALLAST			VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS
		NO.	WATTS	SHAPE	COLOR	NO.	INTEGRAL	REMOTE				
A	RECESSED FLUORESCENT LINEAR TROFFER 2.75" X 4'	1	28	T5	3000	1	–	–	277	GAMMALUX –	GB33RC 128T5 277V ERS REC ASL WH BPE	PROVIDE LENGTHS AS SHOWN ON DRAWINGS. PROVIDE BATTERY BALLAST AS INDICATED ON DRAWINGS. G-BEAM RECESSED SERIES. DIRECT ILLUMINATION. "EM" – FIXTURE TO BE EQUIPPED WITH EMERGENCY BATTERY PACK
ALT 1										ZUMTOBEL STAFF –	L2RPF-1285-OLP-277 –	
ALT 2												
B	2' X 2' INDIRECT FLUORESCENT TROFFER	2	40	U475	3000	1	–	–	277	LIGHTOLIER –	OVS2GS0052U4277SB (-Q AS REQUIRED)	PROVIDE BATTERY BALLAST AS INDICATED ON DRAWINGS. 2'X2' INDIRECT TROFFER "EM" – FIXTURE TO BE EQUIPPED WITH EMERGENCY BATTERY PACK
ALT 1										COOPER LIGHTING NEORAY (FENESTRA)	222AR/2T5ETG277VEB DU (-EM AS REQ'D)	
ALT 2										ZUMTOBEL STAFF –	RCFU 22 2405 MD W U (-EM1 AS REQ'D)	
C	4 1/2" INCAND. WALLWASHER	1	75	PAR30 NFL HALOGEN	–	–	–	–	120V	KURT VERSEN –	H8451 –	4 1/2" SQUARE FULLY RECESSED PAR LENSED WALLWASHER.
ALT 1										KRAMER LIGHTING –	KL4SQ75PAR30CLWWCL CFF	
ALT 2												
D	4 1/2" INCANDESCENT DOWNLIGHT	1	100W	BT-15 HALOGEN	–	–	–	–	120V	KURT VERSEN –	H8415 150W/BT-15 HALOGENA	4 1/2" SQUARE FULLY RECESSED WIDE ANGLE HALOGEN DOWNLIGHT
ALT 1										KRAMER LIGHTING –	KL4SQ100BT15SCLCFF	
ALT 2												
F	FLUORESCENT STRIP FIXTURE	1	28	T5	3000	–	–	–	277	BARTCO LIGHTING –	BFLSAM-28/277/CU 28WT5 46 1/16"	BARE LAMP LINEAR T5 FLUORESCENT WITH INTEGRAL BALLAST.
ALT 1										NULITE	NS128T5 (1)FP28T5 46 1/8"	
ALT 2										LIGHTOLIER	SN128T5 (1)FP28T5 46 1/8"	
G	LINEAR FLUORESCENT PRISMATIC	2	28	T5	3000	–	–	–	120	ZUMTOBEL STAFF –	LFS 2285 4MP U (*) "LIGHT FIELDS"	11 3/4" LINEAR FULLY RECESSED LENSED FLUORESCENT WITH MICRO-PYRAMIDAL DIFFUSER AND DIMMING BALLASTS. SUSPENDED FIXTURE TYPE. PROVIDE UNISTRUT TO SUSPEND FIXTURE AROUND DUCTS. (*) LENGTH OF SUSPENSION CABLE AS REQUIRED
ALT 1												
ALT 2												
H	6" INCANDESCENT DOWNLIGHT ADJUSTABLE ANGLE	1	150	PAR 38	–	–	–	–	120	KURT VERSEN –	H8638	6" SQUARE FULLY RECESSED PAR38 ADJUSTABLE ANGLE DOWNLIGHT
ALT 1										KRAMER LIGHTING –	KL6SQ150PAR38ADJSGC LCFF	
ALT 2												
J	6" INCANDESCENT DOWNLIGHT NARROW ANGLE	1	120	PAR 30 FL	–	–	–	–	120	KURT VERSEN –	H8634	6" SQUARE FULLY RECESSED PAR38 NARROW ANGLE DOWNLIGHT
ALT 1										KRAMER LIGHTING –	KL6SQ250PAR38SGCFF 120-SPX	
ALT 2												
K	GLOWING PENDANT	1	60W	E14	–	–	–	–	120V	STENG –	TUBOLARE 60	5.9" DIAMETER BY 23.6" GLOWING PENDANT MOUNTED CYLINDER
ALT 1										SCHMITZ LIGHTING –	26983.06/2832	
ALT 2												
L	6" FLUORESCENT DOWNLIGHT	1	26W	TRIPLE TUBE	3000	1	YES	–	277	KURT VERSEN –	H8432-MP	6" SQUARE FULLY RECESSED MEDIUM LENSED COMPACT FLUORESCENT DOWNLIGHT
ALT 1										LIGHTOLIER –	4X9PLCCLP	
ALT 2										KRAMER –	KL6SQX26PLT2SGCFFU	
M	FLUORESCENT WALL SCONCE	1	24/27W	TWIN TUBE	3000	1	YES	–	277	LIGHTOLIER –	40831U-HPF ELECTRONIC 277V	WALL SCONCE WITH "CERAMIC WHITE" SILK SCREENED AND SANDBLASTED LIGHT SHIELD.
ALT 1										SCHMITZ LIGHTING –	18766.01/2705	
ALT 2												
N	FLUORESCENT STRIP	2	64	T8	3000	2	YES	–	277	LIGHTOLIER OR APPROVED EQUAL	SW4S232HPF AWG3W CSP	PARKING LEVEL LIGHTING. PROVIDE WIRE GUARD W/ 0' BALLASTS "EM" – FIXTURE TO BE EQUIPPED WITH EMERGENCY BATTERY PACK
ALT 1										METALUX –	SS232-277V-EB8-WG/SS-4FT	
ALT 2										COLUMBIA –	CS4232-CSWG4	
P	WALL MOUNTED FLUORESCENT STAIR LIGHT	2	32	T8	3000	2	NO	–	277	LIGHTOLIER OR APPROVED EQUAL	LSW4132277SO	DUAL MOUNTABLE STAIR LIGHT.
ALT 1										NUTLITE –	17-232 2-F32T8-4'	
ALT 2										– –	–	
Q	FLUORESCENT WRAP AROUND	2	32	T8	3500	2	YES	–	277	LIGHTOLIER OR APPROVED EQUAL	GVB1SFSVL232120SO	FOR USE IN MECH. ROOM AND MAIN ELECTRIC ROOM. SPECIFIED W/ WIRE GUARD "EM" – FIXTURE TO BE EQUIPPED WITH EMERGENCY BATTERY PACK
ALT 1										FAILSAFE –	VRM232 ACTF187 277 EB2	
ALT 2										– –	–	
R	WEATHERPROOF WALL MTD WALL MTD. STRIP SEALATRON	2	32	T8	3500	2	YES	–	277	LIGHTOLIER OR APPROVED EQUAL	ST4WA232	SUITABLE FOR WET LOCATION LISTED
ALT 1										PHOENIX –	LFSB 232 277 60HZ	
ALT 2										NULITE –	FG-232	
OF	EXTERIOR SPOT LIGHT	1	50W	MR16 OR 12V NARROW FLOOD	–	–	–	–	12V/120V	COOPER LUMIERE –	CAMBRIA 355 120V –	EXTERIOR SURFACE MOUNTED SPOT-LIGHT, DARK PLATINUM
ALT 1										B-K LIGHTING –	RA-5-BLP-13-B	
ALT 2										– –		
OG	EXTERIOR UPLIGHT	1	50W	MR16 WFL(FLH)	–	–	–	–	120V	COOPER LUMIERE –	BOCA 633-50 MR16 -120/12NBR-FNV	FULLY RECESSED EXTERIOR ADJUSTABLE ANGLE UPLIGHT ADJUSTABLE ANGLE UPLIGHT
ALT 1										B-K LIGHTING –	B-HP2-MRTR-9-120V	
ALT 2										LUMASCAPE –	LS393	
OH	EXTERIOR WALL SCONCE	2	13W	CF	3000	–	–	–	277V	WINONA AARON –	3704-WL-F-277V OA-LBP-STD	EXTERIOR SURFACE MOUNTED WALL SCONCE WITH OPAL ACRYLIC LENS DARK PLATINUM W/ 0'BALLAST
ALT 1										VISA LIGHTING –	COLONNADE OW1054-30F13-277V OP	
ALT 2										SHAPER –	673-WP-16"CFL/2/26 2HTB/2VTB-BM	
OJ	EXTERIOR WALL SCONCE	1	50W	MH	3000	–	–	–	277V	SPAPER –	682-WP-11-MH/1/50 277V-OP	EXTERIOR SURFACE MOUNTED WALL SCONCE WITH ONLY DOWNLIGHT COMPONENT-DARK PLATINUM
ALT 1										– –	–	
ALT 2										– –	–	
OK	EXTERIOR BOLLARD	1	32W	MH	3000	–	–	–	120V	SPAPER –	982-AP-1CFL-1 277V OP	EXTERIOR BOLLARD WITH DOWNLIGHT COMPONENT ONLY. DARK PLATINUM.
ALT 1										– –	–	
ALT 2										– –	–	
OM	EXTERIOR FLOOD LIGHT	1	50W	Q50T4	3000	–	–	–	12V/120V	COOPER LUMIERE –	CARMEL 403-BLACK-FS1	EXTERIOR SURFACE MOUNTED LOW VOLTAGE FLOOD LIGHT WITH REMOTE LOW VOLTAGE TRANSFORMER.
ALT 1										B-K LIGHTING –	SARASOTA SA-FL-65-BLP-13	
ALT 2										BEGA	7505-BLACK	
OM-1	EXTERIOR FLOOD LIGHT	1	50W	Q50T4	3000	–	–	–	12V/120V	COOPER LUMIERE –	CARMEL 403-BRONZE-GS03	EXTERIOR SURFACE MOUNTED LOW VOLTAGE FLOOD LIGHT WITH REMOTE LOW VOLTAGE TRANSFORMER.
ALT 1										B-K LIGHTING –	SARASOTA SA-FL-65-BZP-13	
ALT 2												
OP	RECESSED POOL UPLIGHT	1	75W	75QT4 MINI-CAN QUARTZ	3000	–	–	–	12V/120V	HYDREL –	4800-RD-B-75T4-12 -FL-NM-35'	FULLY RECESSED POOL UPLIGHT. BRUSHED STAINLESS STEEL FINISH
ALT 1										LUMISCAPE –	LS 222 ANS-2 –	
ALT 2												
OS	SMALL RECESSED STEP LIGHT	1	35W OR 7W	12VT4 OR CF	3000	–	–	–	12V/277V	COOPER LUMIERE –	ZUMA 1201-GRAY –	GRAY LOUVERED FACE PLATE
ALT 1										C.W. COLE –	F157-W-GRAY-277V –	
ALT 2										HUBBELL –	F611 –	
EP	ELEVATOR PIT LIGHT	1	18W	QUAD CF	3000	–	–	–	120V	HUBBELL LIGHTING OR APPROVED EQUAL	NVGA18CG –	WITH GLOBE AND WIREGUARD
ALT 1										PHOENIX –	VPC 18CFL –	
ALT 2												
	EMERGENCY LIGHTING WALL PACK	–	11	–	–	1	YES	–	120/277	LIGHTOLIER	E5 SERIES WHITE	DUAL HEAD THERMOPLASTIC WALL PACK
ALT 1										HIGHLITES –	HL-90-DL –	
ALT 2										SURE LITES –	CC3-NC –	
DS	WALL MOUNTED MOTION SENSOR	–	–	–	–	–	–	–	120/277	WATTSTOPPER	WS-200	PASSIVE INFRARED DETECTOR
ALT 1										SENSOR SWITCH –	WSD –	
ALT 2												
DS DT	CEILING MOUNTED MOTION SENSOR-DUAL TECHNOLOGY	–	–	–	–	–	–	–	120/277	WATTSTOPPER	DT-355 SERIES	PASSIVE INFRARED AND ULTRASONIC DETECTOR
ALT 1										SENSOR SWITCH –	WV-POT –	
ALT 2												
	EXIT LIGHT	–	3.2	–	–	1	YES	–	120/277	LIGHTOLIER OR APPROVED EQUAL	TX SERIES W/NIMH BATTERY	LED EXIT SIGNAGE. RED LETTERS ON WHITE BACKGROUND.
ALT 1										– –	– –	
ALT 2												



LUTRON MODEL NO.	DEVICE NAME	ADDRESS	DESCRIPTION	FUNCTION	LOCATION	NOTES
GP12-1204ML-20	DEVICE NAME	ADDRESS	120/208V, 3#-4 WIRE MAIN LUGS GP DIMMING PANEL CONTAINING 1 20A-1POLE BRANCH BREAKER RATED AT 10,000AIC FOR EACH OF THE 12 DIMMING CIRCUITS. MAX INPUT FEED = 80A			
GPX-4116-A-WH	MAIN UNIT 1	A1,A2	16 ZONE GRAFIK EYE 4000 CONTROL UNIT WITH OPAQUE TOP COVER. FOR USE WITH LUTRON GP, LP, AND XP POWER PANELS. 4 GANG US BACKBOX.	SCENES 1-4, R/L AND OFF		
SG-4SN-WH-EGN		GRX WS 1	SEE TOUCH SERIES GRAFIK EYE WALLSTATION. RECALLS PRESET LIGHT LEVELS FOR UP TO 4 SCENES PLUS OFF. FINE-TUNING OF LIGHT LEVELS WITH MASTER RAISE/LOWER. NONINSERT VERSION; OPTIONAL BACKLIGHTING. 1 GANG US BACKBOX.	SCENES 1-4		
SG-2BN-WH-EGN		GRX WS 2	SEE TOUCH SERIES GRAFIK EYE WALLSTATION. 2-BUTTON CONTROL CAN BE CONFIGURED TO SELECT SCENES, TOGGLE PARTITION STATUS, START AND STOP SEQUENCES, INITIATE A PANIC FUNCTION, OR FINE TUNE LIGHTING. NONINSERT VERSION; OPTIONAL BACKLIGHTING. 1 GANG US BACKBOX	SCENES 1 AND OFF		
LUT-ELI			EMEREGNCY SENSING INTERFACE MODULE.			
APPROVED ALTERNATE DIMMING SYSTEM: ELECTRONICS DIVERSIFIED. ALTERNATE SYSTEM PROVIDED SHALL BE SIMILAR TO THE LUTRON SYSTEM SHOWN. SUBMIT FOR APPROVAL. OPTIONAL BACKLIGHTING. 1 GANG US BACKBOX						

① LUTRON GRAFIK EYE 4000 SERIES DIMMING SYSTEM

SCALE: N.T.S.

GOVERNMENT OF THE DISTRICT OF COLUMBIA [illegible]

JAN [illegible]

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SEAL
6/30/06

KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

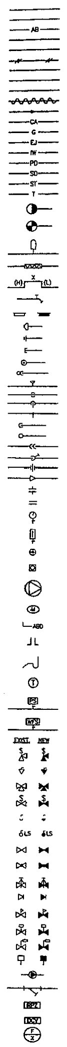
SHEET TITLE
ELECTRICAL
SCHEDULE & NOTES

CONSTRUCTION
DOCUMENTS

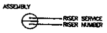
SCALE: NONE
SHEET NO.
E.6-01
REVISION:

ELECTRICAL

PLUMBING BASIC SYMBOLS
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)



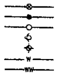
- EXISTING PIPING
- EXISTING PIPING TO BE REMOVED
- PIPING TO BE ABANDONED
- NEW SOIL, WASTE OR SANITARY PIPING
- VENT PIPING (SANITARY)
- PIPING BELOW SLAB
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING (120')
- DOMESTIC HOT WATER CIRCULATION PIPING
- PIPING w/FREEZE PROTECTION CABLE & INSULATION
- ARROW INDICATES DIRECTION OF FLOW
- COMPRESSED AIR PIPING
- GAS PIPING
- EJECTOR DISCHARGE PIPING
- INDIRECT WASTE PIPING
- PUMP DISCHARGE PIPING
- SUMP PUMP DISCHARGE PIPING
- STORM WATER DRAINAGE PIPING
- TEMPERED WATER PIPING
- DISCONNECT FROM EXISTING
- CONNECT TO EXISTING
- SHOCK ARRESTOR
- FLEXIBLE CONNECTION
- EXPANSION LOOP SIZE
- HOSE BIBB
- WALL HYDRANT (EXIST./NEW)
- FRESH AIR INLET
- CLEAN OUT/PLUGGED OUTLET
- CAPPED OUTLET
- CLEAN-OUT DECK PLATE
- P-TRAP
- VACUUM BREAKER
- BOTTOM PIPE CONNECTION
- TOP PIPE CONNECTION
- SIDE CONNECTION
- PIPE DOWN/DROP
- PIPE RISE/UP
- PIPE SLOPE
- VALVE IN VERTICAL
- UNION
- REDUCER
- WATER PROOF SLEEVE
- SLEEVE
- PRESSURE GAUGE w/GAUGE COCK
- TEMPERATURE GAUGE
- FLOOR DRAIN
- ROOF DRAIN
- PUMP
- WATER METER
- AUTOMATIC BALL DRIP
- VENT THRU ROOF
- TRAP
- TAMPER SWITCH
- PRESSURE SWITCH w/GAUGE COCK
- WATERFLOW SWITCH w/GAUGE COCK
- TEMPERATURE AND PRESSURE RELIEF VALVE
- PLUG VALVE
- MIXING VALVE
- RELIEF VALVE
- BALL VALVE
- BALL VALVE w/LOCK SHIELD
- GATE VALVE
- GLOBE VALVE
- OUTSIDE SCREW & YOKE (OS & Y) VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE (PRV)
- SOLENOID VALVE
- FLOAT VALVE
- WATERFLOW SWITCH
- BACKWATER VALVE
- Y STRAINER w/BLOW-OFF VALVE
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY
- DETECTOR CHECK VALVE ASSEMBLY
- RISER DESIGNATION



PLUMBING ABBREVIATIONS
(NOT ALL ABBREV. ARE NECESSARILY USED ON THIS PROJECT)

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
CM	COFFEE MAKER
CV	CHECK VALVE
CVO	CAPPED AND VALVED OUTLET
CW	COLD WATER
CLG	CEILING
CONN	CONNECT
CONT	CONTINUATION
DIA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DWG	DRAWING
(E)	EXISTING
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
EJ DIS	EJECTOR DISCHARGE
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FU	FIXTURE UNIT
FL	FLOOR
FL H	FLOOR HYDRANT
FT	FEET
GC	GENERAL CONTRACTOR
GAL	GALLONS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HCLG	HUNG CEILING
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER
IW	INDIRECT WASTE
IN	INCH
JS	JANITOR'S SINK
LAV	LAVATORY
MAP	MEDICAL GAS ALARM PANEL
MAX	MAXIMUM
MIN	MINIMUM
MR	MOP RECEPTOR
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PO	PLUGGED OUTLET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RD	ROOF DRAIN
(RE)	RELOCATED EXISTING
(RRO)	EXISTING TO BE REMOVED AND RETURN TO OWNER
SA	SHOCK ABSORBER
SAN	SANITARY
SD	SUMP PUMP DISCHARGE
SH	SHOWER
SK	SINK
SQ FT	SQUARE FOOT
ST	STORM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
ZCVB	ZONE CONTROL VALVE BOX

PLUMBING WATER SERVICE SYMBOLS
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)



- ISOLATION VALVE w/BOX TO GRADE
- MANHOLE IN SANITARY SEWER
- EXISTING MANHOLE
- FIRE HYDRANT
- WELL
- SITE WATER (COMBINED DOMESTIC & FIRE)
- WELL WATER

GENERAL PLUMBING NOTES:

1. EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO THE FIELD CONDITIONS.
2. ALL EXISTING SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
3. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED ON THE SITE.
4. NO REMOVED EXISTING PIPING SHALL BE REUSED UNLESS OTHERWISE INDICATED.
5. THIS CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT THE EXPRESSED PERMISSION OF THE OWNER. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE SUITED BY THE OWNER.
6. UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PART DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
7. UNNECESSARY NOISE SHALL BE AVOIDED AT ALL TIMES AND NECESSARY NOISE SHALL BE REDUCED TO A MINIMUM.
8. WHERE THE WORK MAKES TEMPORARY SHUT DOWN OF SERVICES UNAVOIDABLE, THEY SHALL BE MADE AT NIGHT OR AT TIMES AS THIS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE OF THE BUILDING.
9. THIS CONTRACTOR SHALL ARRANGE THE WORK CONTINUOUSLY, INCLUDING APPROVED BY THE ARCHITECT OVERTIME IF REQUIRED, TO ASSURE THAT ... SERVICES WILL BE SHUT DOWN AND CUT-INS ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTION TO EXISTING WORK.
10. THIS CONTRACTOR SHALL GIVE AMPLE WRITTEN NOTICE IN ADVANCE TO THE OWNER OF ANY REQUIRED SHUT DOWNS.
11. ANY AND ALL REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING SUSPENDED CEILINGS AND FURRED OUT WALLS SHALL BE DONE AT THE TIME WHEN THE EXISTING CEILINGS AND FURRED OUT WALLS ARE REMOVED BY THE GENERAL CONTRACTOR.
12. TO ENSURE CONTINUOUS OPERATION, MAKE ALL NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALL COST RESULTING FROM TEMPORARY SHUTDOWNS SHALL BE BORNE BY THIS CONTRACTOR.
13. PROVIDE DRAIN BIB AT THE BASE OF EACH HOT AND COLD WATER RISER.
14. ALL GAS, VENT, HOT WATER CIRCULATION, HOT AND COLD WATER PIPING ARE AT CEILING OR IN HUNG CEILING: EXCEPT IN PIPE SPACES OR OTHERWISE NOTED.
15. NO GAS VALVE SHALL BE LOCATED IN HUNG CEILING.
16. CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL PIPE PENETRATIONS: PIPE ELEVATIONS: LOCATION OF EXISTING DRYWELLS: AREA DRAINS; CESSPOOLS ETC.
17. ACCESS DOORS SHALL BE PROVIDED FOR ALL CLEANOUTS. VALVES, FLUSH VALVES, AND ANY OTHER EQUIPMENT AND ACCESSORIES THAT MAY REQUIRED ACCESS FOR MAINTENANCE OR OPERATION WHICH ARE LOCATED BEHIND WALLS AND PARTITIONS OR CONCEALED IN HUNG CEILINGS.
18. CONTRACTOR SHALL REFER TO AND COORDINATE WITH OTHER TRADES DRAWINGS FOR WORK OF CONCRETE PADS, HOUSE TRAP PIT AND GREASE TRAP PITS.
19. ALL PLUMBING WORK SHALL MEET THE REQUIREMENT OF NYC PLUMBING CODE, AND OTHER AGENCIES AND AUTHORITIES HAVING JURISDICTION.

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KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
PLUMBING
SYMBOLS AND
ABBREVIATIONS
CONSTRUCTION
DOCUMENTS

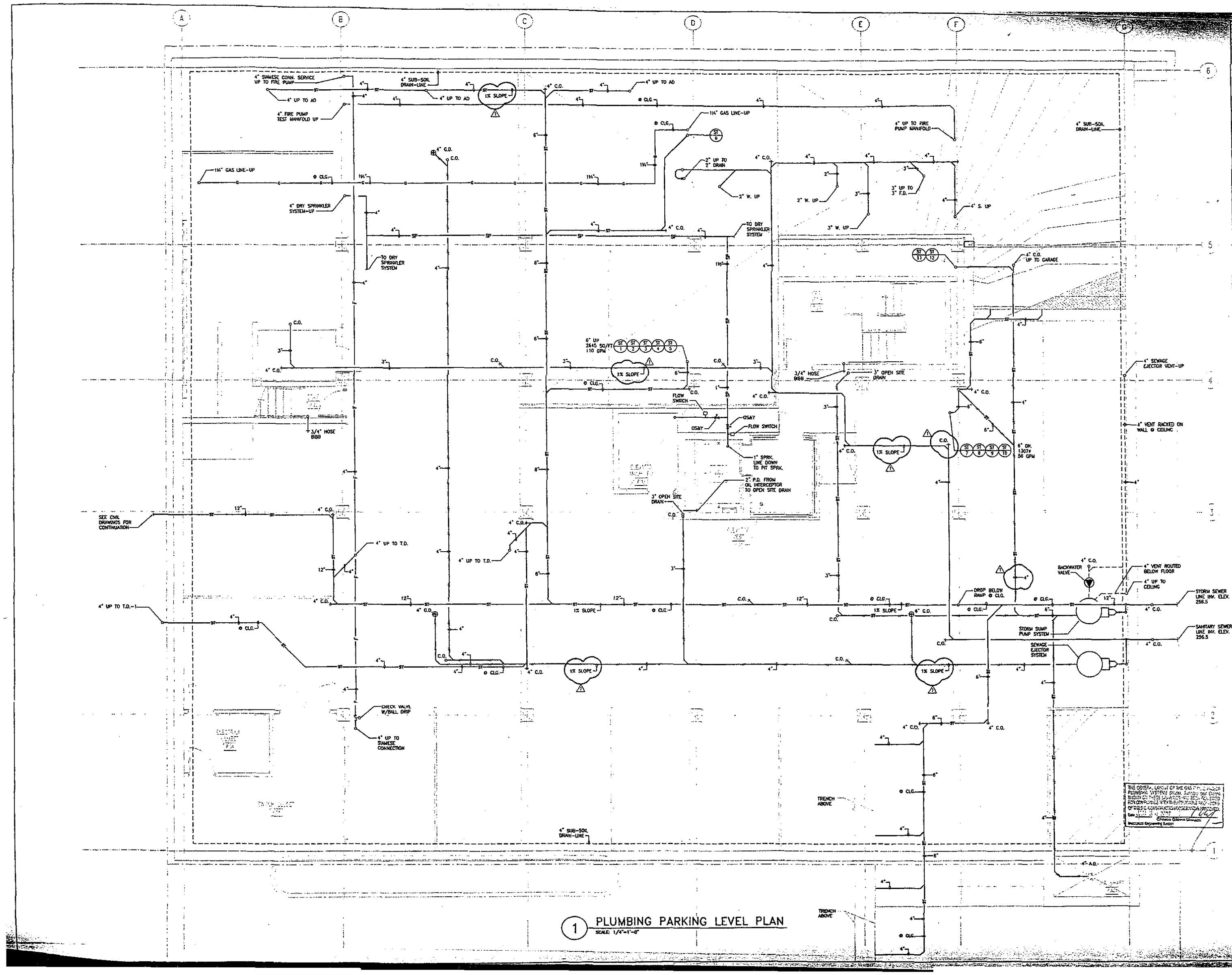
SCALE: NONE

SHEET NO.
P.1-00

REVISION:

PLUMBING

BOARD OF ZONING ADJUSTMENT
District of Columbia
CASE NO. 17663
EXHIBIT NO. 21



① PLUMBING PARKING LEVEL PLAN

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

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REVISIONS

No.	Description	Date
△	DCRA COMMENTS	01/05/0
1	ADDENDUM 1	09/01/0
	100% CONST. DOCUMENTS	06/30/0
	90% CONST. DOCUMENTS	06/16/0
	50% CONST. DOCUMENTS	05/10/0
	100% DESIGN DEVELOPMENT	02/17/0
	50% DESIGN DEVELOPMENT	10/24/0

PROJECT NO. W050002
DATE: 06-30-

SHEET TITLE
PLUMBING
PARKING LEVEL
PLAN
CONSTRUCTION
DOCUMENTS

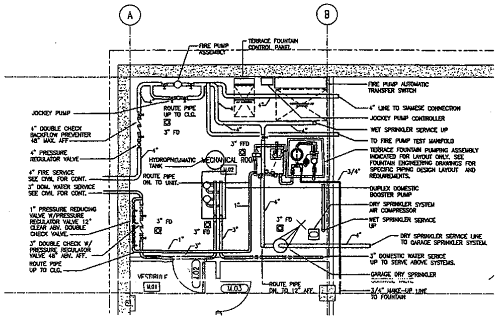
SCALE: 1/4" = 1'-0"

SHEET NO.
P.2-00

REVISION

HELLMUTH, OBATA & KASSABAUM, P.C.

PLUMBING


A
B
FIRE PUMP ASSEMBLY
TERRACE FOUNTAIN CONTROL PANEL
FIRE PUMP AUTOMATIC TRANSFER SWITCH
4" LINE TO SIAMESE CONNECTION
JOCKEY PUMP CONTROLLER
WET SPRINKLER SERVICE UP
TO FIRE PUMP TEST MANIFOLD
TERRACE FOUNTAIN PUMPING ASSEMBLY INDICATED FOR LAYOUT ONLY. SEE FOUNTAIN ENGINEERING DRAWINGS FOR SPECIFIC PIPING DESIGN LAYOUT AND REQUIREMENTS.
DUPLEX DOMESTIC BOOSTER PUMP
DRY SPRINKLER SYSTEM AIR COMPRESSOR
WET SPRINKLER SERVICE UP
DRY SPRINKLER SERVICE LINE TO GARAGE SPRINKLER SYSTEM.
3" DOMESTIC WATER SERICE UP TO SERVE ABOVE SYSTEMS.
GARAGE DRY SPRINKLER CONTROL VALVE
3/4" MAKE-UP LINE TO FOUNTAIN
JOCKEY PUMP
4" DOUBLE CHECK BACKFLOW PREVENTER 48" MAX. AFF
4" PRESSURE REGULATOR VALVE
4" FIRE SERVICE SEE CIVIL FOR CONT.
3" DOM. WATER SERVICE SEE CIVIL FOR CONT.
1" PRESSURE REDUCING VALVE W/PRESSURE REGULATOR VALVE 12" CLEAR ABV. DOUBLE CHECK VALVE.
3" DOUBLE CHECK W/ PRESSURE REGULATOR VALVE 48" ABV. AFF.
ROUTE PIPE UP TO CLG.
ROUTE PIPE UP TO CLG.
3" FD
HYDROPNEUMATIC TANK
MECHANICAL ROOM
M.02
ROUTE PIPE DN. TO UNIT.
3" FFD
3" FD
3" FD
3" FD
4"
4"
4"
4"
4"
4"
1"
1"
3"
3"
3/4"
VESTIBULE
M.01
L.02
M.03
ROUTE PIPE DN. TO 12" AFF.

1 PLUMBING MEZZANINE LEVEL PUMP ROOM

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

[illegible]

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	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

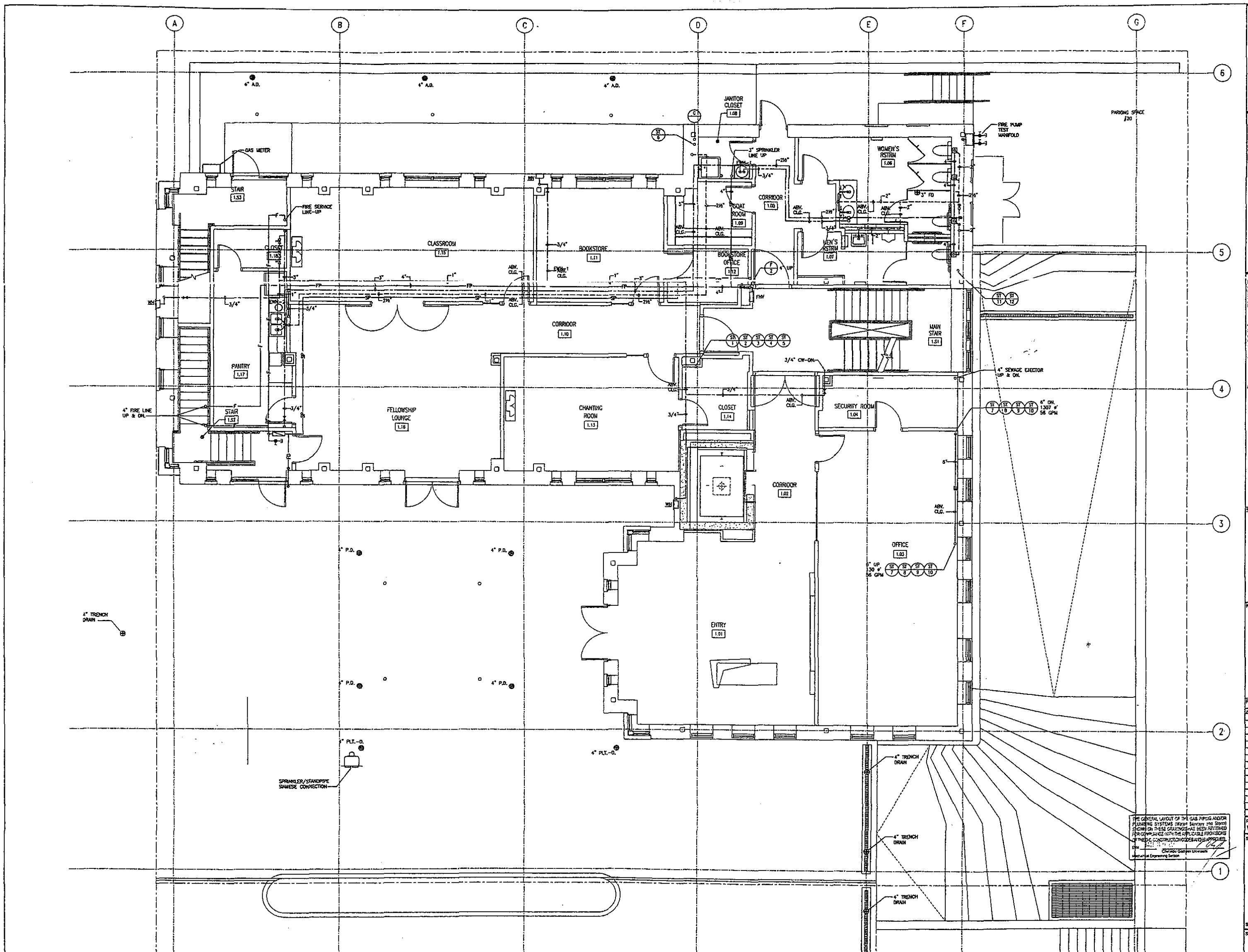
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
PLUMBING
MEZZANINE
PUMP ROOM PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. P.2-00M
REVISION:

PLUMBING



THE GENERAL LAYOUT OF THE GAS PIPING AND/OR PLUMBING SYSTEMS (Water Sanitary and Storm) SHOWN ON THESE DRAWINGS HAS BEEN REVIEWED FOR COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THE D.C. CONSTRUCTION CODES AND IS APPROVED.

Date [illegible]

Chinedu Godwin [illegible]

Mechanical Engineering Section

① PLUMBING FIRST LEVEL PLAN

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

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE

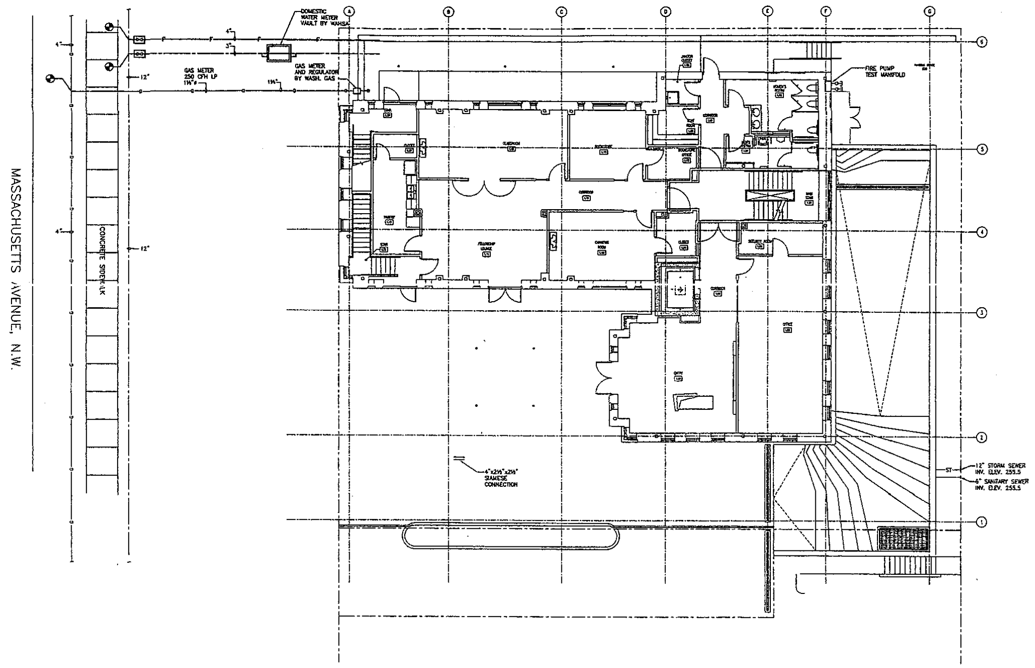
PLUMBING
FIRST LEVEL
PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. P.2-01

REVISION:

PLUMBING


DOMESTIC WATER METER VAULT BY WAHSA
GAS METER 250 CFH LP 1¼"ø
GAS METER AND REGULATOR BY WASH. GAS
1¼"
4"
3"
12"
4"
MASSACHUSETTS AVENUE, N.W.
CONCRETE SIDEWALK
FIRE PUMP TEST MANIFOLD
4"x2½"x2½" SIAMESE CONNECTION
12" STORM SEWER INV. ELEV. 255.5
6" SANITARY SEWER INV. ELEV. 255.5
ST
A
B
C
D
E
F
G
1
2
3
4
5
6

① PLUMBING SITE PLAN
SCALE: 1/8"=1'-0"

THE GENERAL LAYOUT OF THE GAS PIPING AND/OR PLUMBING SYSTEMS (Water Supply and Storm) SHOWN ON THESE DRAWINGS HAS BEEN REVIEWED FOR COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THE D.C. CONSTRUCTION CODES AND IS APPROVED
Date [illegible]
Chinedu Godwin Ukwuani
Mechanical Engineering Section

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KEYPLAN

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	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

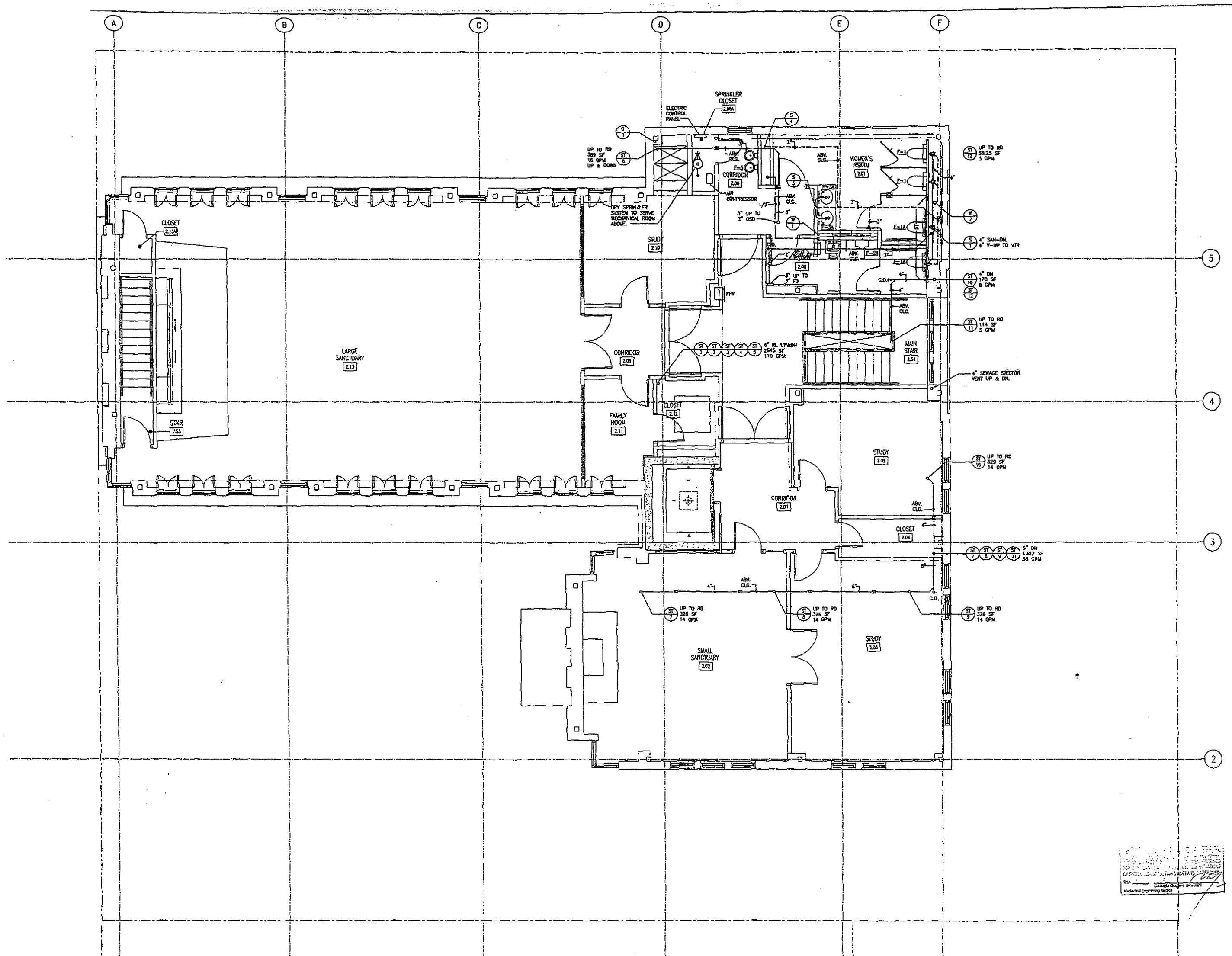
SHEET TITLE
PLUMBING SITE PLAN

CONSTRUCTION DOCUMENTS

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

SHEET NO. **P.2-01S**
REVISION:

PLUMBING


A
B
C
D
E
F
5
4
3
2
CLOSET 2.13A
LARGE SANCTUARY 2.13
STAIR 2.53
SPRINKLER CLOSET 2.06A
ELECTRIC CONTROL PANEL
G 1
UP TO RD 389 SF 16 GPM UP & DOWN
ST 6
S 4
ABV. CLG.
CORRIDOR 2.06
F-5
AIR COMPRESSOR
DRY SPRINKLER SYSTEM TO SERVE MECHANICAL ROOM ABOVE.
WOMEN'S RSTRM 2.07
F-1
F-1A
F-2A
F-3A
ST 12 UP TO RD 58.25 SF 3 GPM
W 2
S 1 4" SAN-DN. 4" V-UP TO VTR
S 3
W 1
1/2"
3" UP TO 3" OSD
C.O.
3" UP TO 3" FD
RSTRM 2.08
STUDY 2.10
FHV
C.O.
ST 10 4" DN 170 SF 8 GPM
ST 12
ST 11 UP TO RD 114 SF 5 GPM
MAIN STAIR 2.51
4" SEWAGE EJECTOR VENT UP & DN.
CORRIDOR 2.09
ST 1 ST 2 ST 3 ST 4 ST 5 6" RL UP&DN 2645 SF 110 GPM
FAMILY ROOM 2.11
CLOSET 2.12
STUDY 2.05
ST 10 UP TO RD 329 SF 14 GPM
CORRIDOR 2.01
CLOSET 2.04
ST 7 ST 8 ST 9 ST 10 6" DN 1307 SF 56 GPM
ST 7 UP TO RD 326 SF 14 GPM
ST 8 UP TO RD 326 SF 14 GPM
ST 9 UP TO RD 326 SF 14 GPM
SMALL SANCTUARY 2.02
STUDY 2.03

1 PLUMBING SECOND LEVEL PLAN
SCALE: 1/4"=1'-0"

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KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

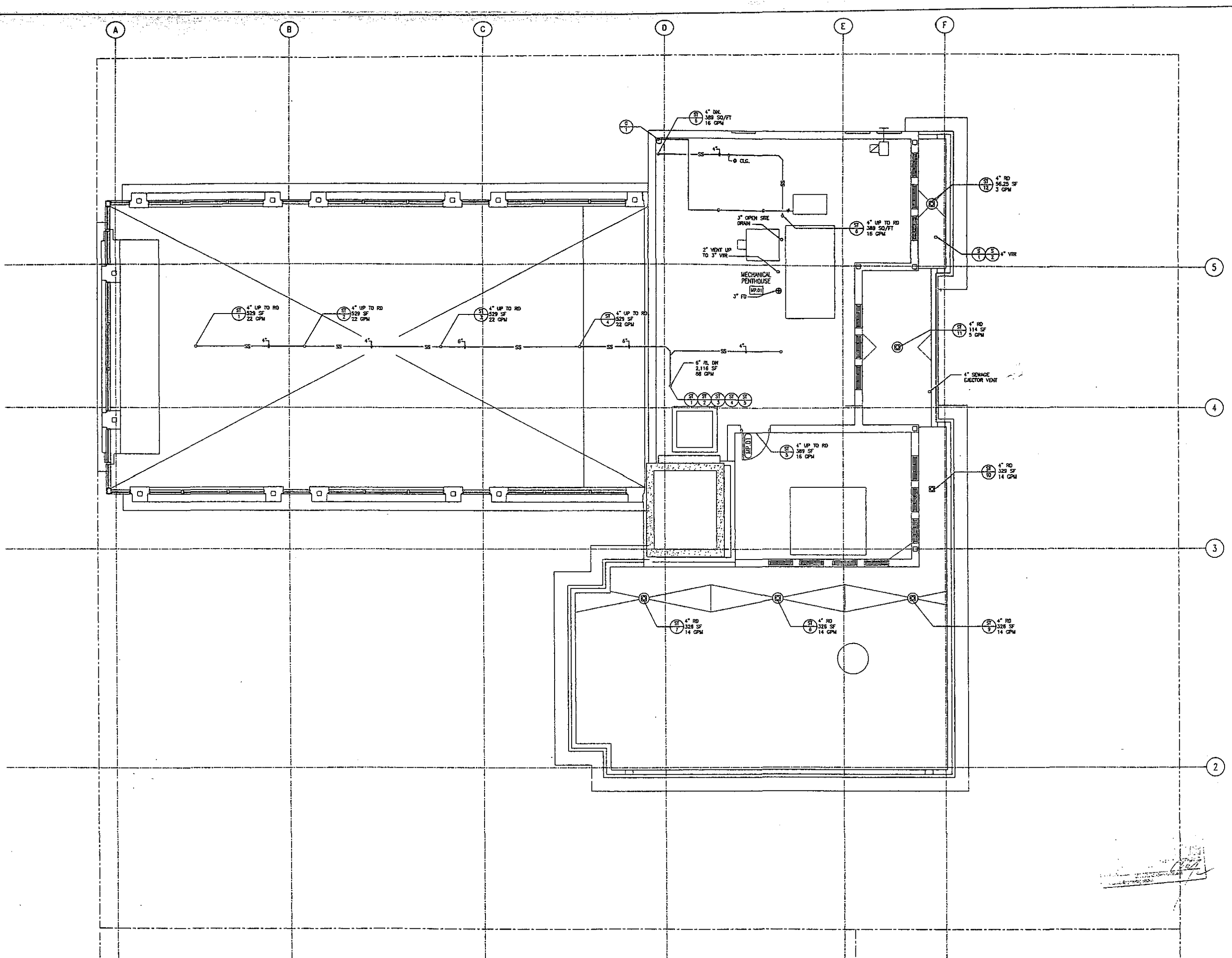
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
PLUMBING
SECOND LEVEL
PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO. P.2-02
REVISION:

PLUMBING



① PLUMBING THIRD LEVEL PLAN
SCALE: 1/4"=1'-0"

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	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

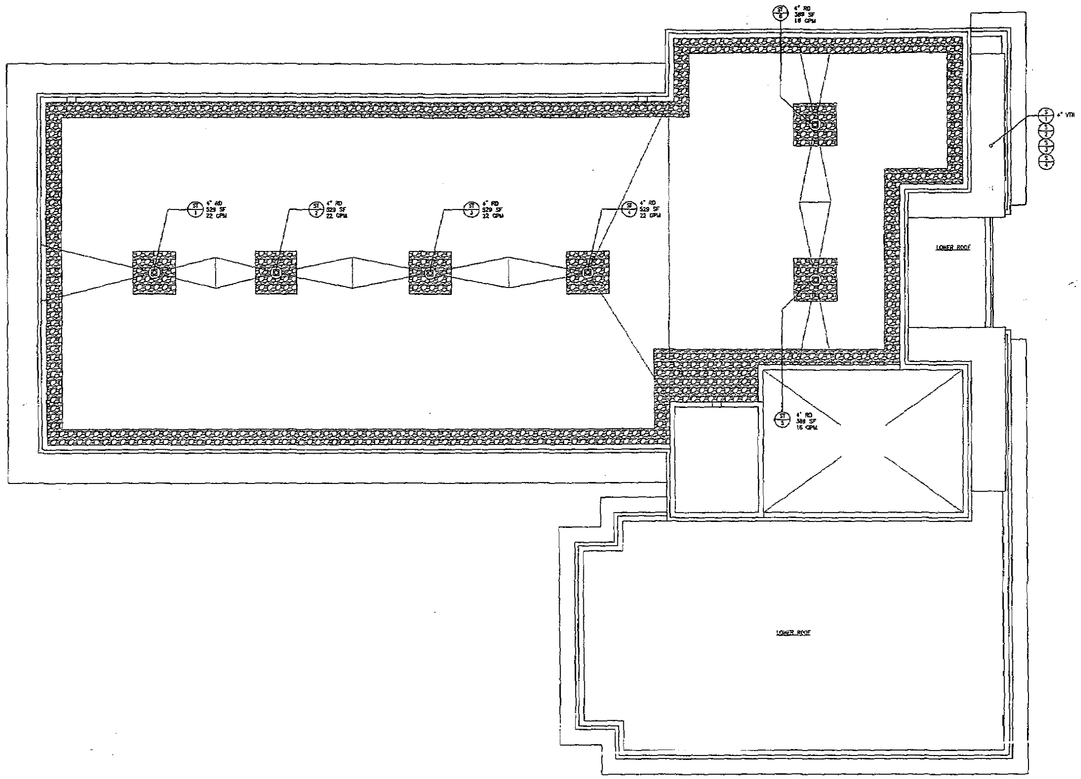
PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
PLUMBING
THIRD LEVEL
PLAN
CONSTRUCTION
DOCUMENTS

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

SHEET NO.
P.2-03
REVISION:

PLUMBING



1 PLUMBING ROOF LEVEL PLAN
SCALE: 1/4"=1'-0"

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	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

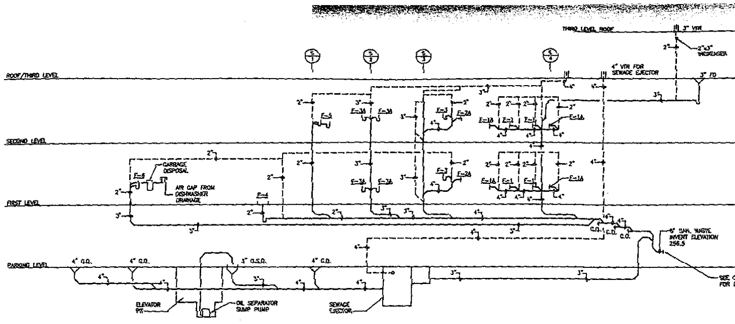
SHEET TITLE
PLUMBING
ROOF LEVEL
PLAN
CONSTRUCTION
DOCUMENTS

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

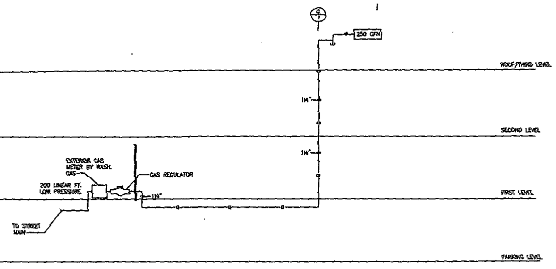
SHEET NO.
P.2-04

REVISION:

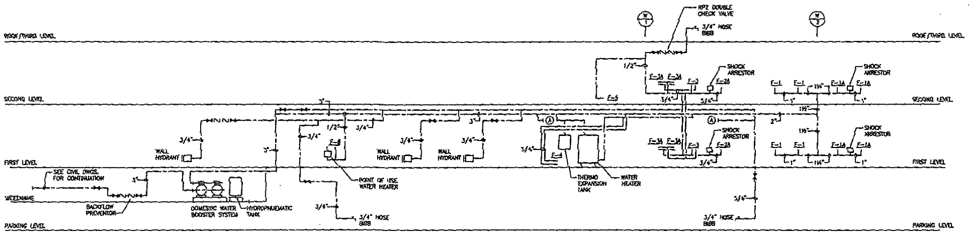
PLUMBING



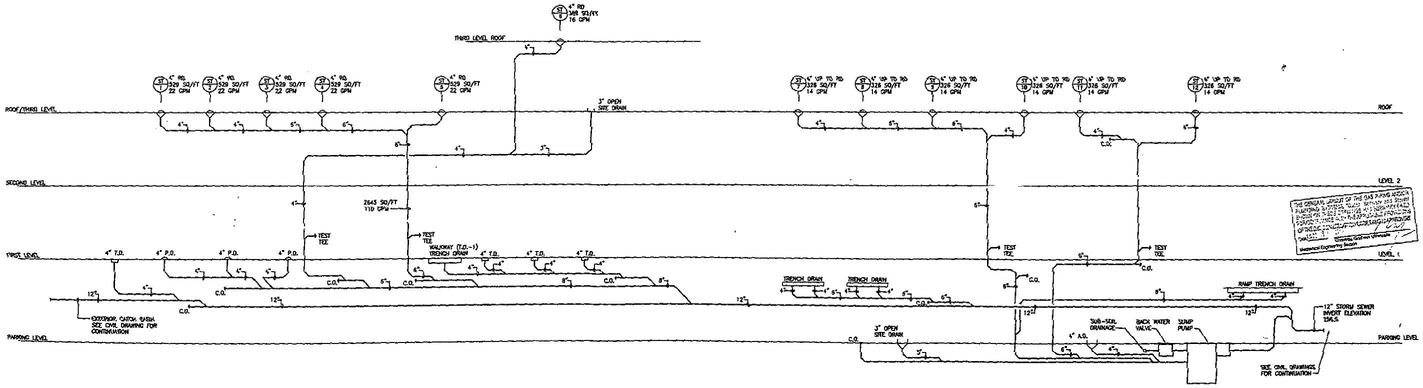
① PLUMBING SANITARY RISER DIAGRAM
SCALE: N.T.S.



② PLUMBING GAS RISER DIAGRAM
SCALE: N.T.S.



③ PLUMBING DOMESTIC WATER RISER DIAGRAM
SCALE: N.T.S.



④ PLUMBING STORM RISER DIAGRAM
SCALE: N.T.S.

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	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
SANITARY, DOMESTIC WATER, GAS, & STORM RISER DIAGRAM
CONSTRUCTION DOCUMENTS

SCALE: NONE

SHEET NO. P.4-00
REVISION:

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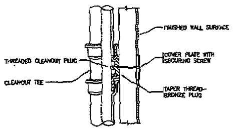
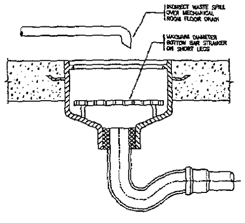
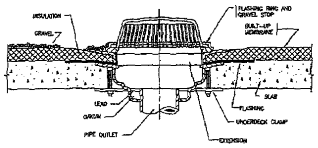
PLUMBING



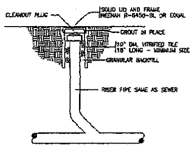
1 P.5-00 CLEANOUT FOR DRAINAGE CONCEALED BEHIND WALLS


INDIRECT WASTE SPILL OVER MECHANICAL ROOM FLOOR DRAIN
MAXIMUM DIAMETER BOTTOM BAR STRAINER ON SHORT LEGS

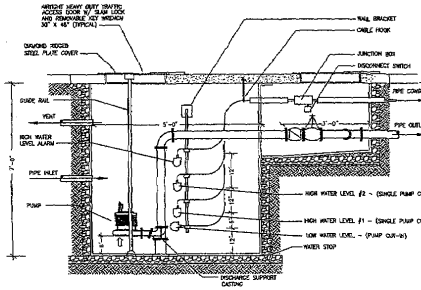
2 P.5-00 TYPICAL MECHANICAL ROOM FLOOR DRAIN FOR INDIRECT WASTE



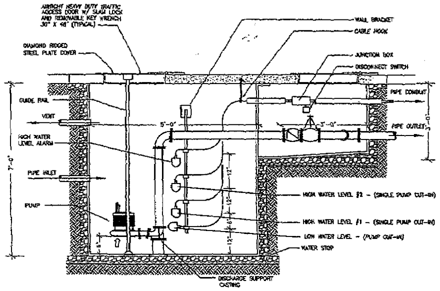
3 P.5-00 DETAIL OF ROOF DRAIN (PRECAST CONCRETE WITH INSULATION LEVEL)


SOLID LID AND FRAME NEENAH R-6450-BL OR EQUAL
CLEANOUT PLUG
GROUT IN PLACE
10" DIA. VITRIFIED TILE 18" LONG - MINIMUM SIZE
GRANULAR BACKFILL
RISER PIPE SAME AS SEWER

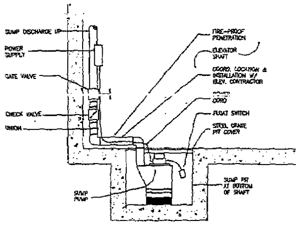
4 P.5-00 'RH' - RODDING HOLE


AIRTIGHT HEAVY DUTY TRAFFIC ACCESS DOOR W/ SLAM LOCK AND REMOVABLE KEY WRENCH 30" X 48" (TYPICAL)
WALL BRACKET
CABLE HOOK
DIAMOND RIDGED STEEL PLATE COVER
JUNCTION BOX
DISCONNECT SWITCH
PIPE CONDUIT
GUIDE RAIL
VENT
5'-0"
3'-0"
PIPE OUTLET
3'-0"
HIGH WATER LEVEL ALARM
7'-0"
PIPE INLET
12"
12"
6"
12"
8"
HIGH WATER LEVEL #2 - (SINGLE PUMP CUT-IN)
PUMP
HIGH WATER LEVEL #1 - (SINGLE PUMP CUT-IN)
LOW WATER LEVEL - (PUMP CUT-IN)
WATER STOP
DISCHARGE SUPPORT CASTING

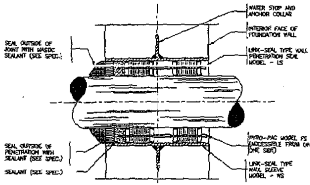
5 P.5-00 SEWAGE EJECTOR DETAIL - ELEVATION


AIRTIGHT HEAVY DUTY TRAFFIC ACCESS DOOR W/ SLAM LOCK AND REMOVABLE KEY WRENCH 30" X 48" (TYPICAL)
WALL BRACKET
CABLE HOOK
DIAMOND RIDGED STEEL PLATE COVER
JUNCTION BOX
DISCONNECT SWITCH
PIPE CONDUIT
GUIDE RAIL
VENT
5'-0"
3'-0"
PIPE OUTLET
3'-0"
HIGH WATER LEVEL ALARM
7'-0"
PIPE INLET
12"
12"
6"
12"
6"
HIGH WATER LEVEL #2 - (SINGLE PUMP CUT-IN)
PUMP
HIGH WATER LEVEL #1 - (SINGLE PUMP CUT-IN)
LOW WATER LEVEL - (PUMP CUT-IN)
WATER STOP
DISCHARGE SUPPORT CASTING

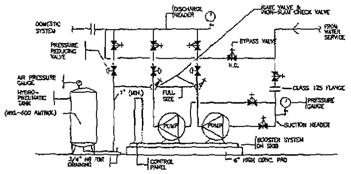
6 P.5-00 STORM SUMP PUMP DETAIL - ELEVATION



7 P.5-00 ELEVATOR SUMP PIT DETAIL 2


WATER STOP AND ANCHOR COLLAR
INTERIOR FACE OF FOUNDATION WALL
SEAL OUTSIDE OF JOINT WITH MASTIC SEALANT (SEE SPEC.)
LINK-SEAL TYPE WALL PENETRATION SEAL MODEL - LS
PYRO-PAC MODEL FS (ACCESSIBLE FROM ONLY ONE SIDE)
SEAL OUTSIDE OF PENETRATION WITH SEALANT (SEE SPEC.)
LINK-SEAL TYPE WALL SLEEVE MODEL - WS
SEALANT (SEE SPEC.)

8 P.5-00 PIPE SLEEVE THRU EXTERIOR FOUNDATION WALL



9 P.5-00 DUPLEX BOOSTER PUMP PIPING

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	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE
PLUMBING
DETAILS

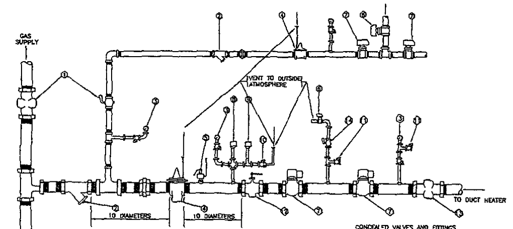
CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO.
P.5-00

REVISION:

PLUMBING

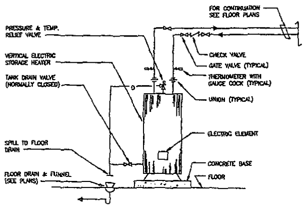


① MANUAL PLUG LOCK
② STRAINER
③ GAUGE AND COCK
④ PRESSURE REGULATOR
⑤ RELIEF VALVE
⑥ SOLENOID VENT VALVE (N.O.)
⑦ SAFETY SHUTOFF VALVES (N.C.)
⑧ HIGH PRESSURE SWITCH
⑨ LOW PRESSURE SWITCH
⑩ VENT COCK
⑪ LEAKAGE TEST COCK
⑫ BURNER CONTROL VALVE
⑬ CHECKING CONTROL COCK
⑭ PLUG COCK, LOCKED OPEN

CONCEALED VALVES AND FITTINGS
- WRAP WITH 1 INCH THICK, 1 POUND DENSITY TO REQUIRED PIPE INSULATION THICKNESS.
- SECURE WITH WIRE OR TAPE.
- VAPOR SEAL COLD WATER, CHILLED WATER AND STORM WATER PIPING.

EXPOSED VALVES AND FITTINGS
- PREMOLDED FIBERGLASS OR RADIAL MITERED PIPE INSULATION.
- SKIM COAT OF INSULATION CEMENT.
- COAT OF MASTIC
- OVERLAP 2 INCHES ON PIPE INSULATION.

I.R.I. GAS TRAIN P-34


FOR CONTINUATION SEE FLOOR PLANS
PRESSURE & TEMP. RELIEF VALVE
VERTICAL ELECTRIC STORAGE HEATER
TANK DRAIN VALVE (NORMALLY CLOSED)
CHECK VALVE
GATE VALVE (TYPICAL)
THERMOMETER WITH GAUGE COCK (TYPICAL)
UNION (TYPICAL)
ELECTRIC ELEMENT
SPILL TO FLOOR DRAIN
CONCRETE BASE
FLOOR DRAIN & FUNNEL (SEE PLANS)
FLOOR

ELECTRIC DOMESTIC WATER HEATER

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PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE

PLUMBING
DETAILS

CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO. P.5-01
REVISION:

PLUMBING

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	STORAGE GALS	RECOVERY		NUMBER ELEMENTS	ELECTRICAL				TEMP SETTING	MANUFACTURER & MODEL	REMARKS
		GPH	DEG RISE		KW	V	PH	HZ			
EWH-1	20	10	80	2	3	208	1	60	110		
EWH-2	10	12	80	2	3	208	1	60	110		

PLUMBING FIXTURE SCHEDULE

FIXTURES	FIXTURE #					SERVICE CONNECTION					MANUFACTURER AND EQUIPMENT	MODEL No.	REMARKS
WATER CLST	F-1	F-1A	F-1B	F-1C	F-1D	S	W	V	CW	HW			
FLUSH VALVE (BOTTOM OUTLET)											AMERICAN STANDARD CADET 17"H EL 1.6FV SLOAN ROYAL FLUSH VALVE OLSONITE OPEN FRONT SEAT LESS COVER	3043.102 111 95	FURNISH FIXTURE CARRIERS AS REQUIRED
FLUSH VALVE	•					4"		2"	1 1/4"		AMERICAN STANDARD AFWALL EL 1.6 SLOAN ROYAL FLUSH VALVE OLSONITE OPEN FRONT SEAT LESS COVER	2257.103 111 95	FURNISH FIXTURE CARRIERS AS REQUIRED
HANDICAPPED		•				4"		2"	1 1/4"		SAME AS F-1		MOUNT AT HANDICAPPED HEIGHT
URINALS	F-2	F-2A	F-2B										
BLOW-OUT													
WASH-OUT												6501.010 186-1	FURNISH FIXTURE CARRIERS AS REQUIRED
HANDICAPPED		•					2"	1 1/2"	1"		AMERICAN STANDARD WASHBROOK 1.0 SLOAN ROYAL FLUSH VALVE		MOUNT AT HANDICAPPED HEIGHT
LAVATORIES	F-3	F-3A	F-3B										
WALL HUNG	•						1 1/2"	1 1/2"	3/4"	3/4"			
HANDICAPPED							1 1/2"	1 1/2"	3/4"	3/4"	AMERICAN STANDARD LUCERNE TRIM: HERITAGE 4"O.C. TRUEBRO ADA KIT	0355.012 7402.172H 102W WITH 105W	FURNISH OFFSET TRAP, VALVE STOPS, RISERS AND INSULATION KIT.
TRI-FOUNT													
SLOP SINKS	F-4	F-4A	F-4B										
WALL HUNG													
RECEPTOR	•						3"	1 1/2"	3/4"	3/4"	FIAT 36"x 24" x 10" MOLDED STONE FIAT BUMPERGUARD, MOP HANGER HOSE AND HOSE BRACKET. TRIM: CHICAGO FAUCET	MSB-300 E-77-AA, 889-CC, 832-AA MSG-3232	
MISC.	F-5	F-5A	F-5B										
TWO-LEVEL EWC	•						1 1/2"	1 1/2"	1/2"		HAWS	H1011.8	
PANTRY SINK			•				2"	1 1/2"	1/2"	1/2"	SK: JUST TRIM: CHICAGO FAUCET	DL-2037-A-GR 201-GN8A-E3-317	

DRAIN SCHEDULE

			BODY									STRAINER																					REMARKS
DESIGNATION	REQUIRED	SERIES NO. ZURN WADE SMITH • JOSAM	CAST IRON	GALVANIZED	ALL BRONZE	SECONDARY CLAMP	CLAMPING DEVICE	DECK CLAMP	BACK WATER VALVE	SUMP RECEIVER	FLASHING COLLAR	CAST IRON	GALVANIZED	ALL BRONZE	NICKEL BRONZE (ADJUSTABLE)	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	BRONZE MESH SCREEN	FUNNEL TOP	FLAT TOP	DOME	RAISED UP	EXTENSION	LESS GRATE	BRONZE TOP	IRON GRATE	POLYETHYLENE	SOLID HINGED COVER	LOCATION
AD	•	2240	•								•						•												•				AREAWAYS
PLT-D	•	2671	•																														PLANTER DRAIN
FD	•	2210	•								•						•													•			MECHANICAL EQUIP. ROOM
FD	•	2005-A	•												•				•										•				TOILET ROOMS
GD	•	2142	•																•		•								•				GARAGE DRAIN
TD	•	2210-D	•														•								•								TRENCH DRAIN
RD	•	1017-GG-C	•					•		•	•																				•		GREEN ROOF
RD	•	1017-GG-C	•					•		•	•																						NON-GREEN ROOF

NOTES:

1. ALL FLOOR DRAINS IN FINISHED AREAS AND ALL ROOF DRAINS SHALL BE LOCATED AS PER THE ARCHITECTURAL DRAWINGS.
2. ALL FLOOR DRAINS IN MECHANICAL EQUIPMENT, BOILER ROOMS, FAN ROOMS ETC., SHALL BE LOCATED IN COORDINATION WITH THE MECHANICAL CONTRACTOR.
3. THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF THE DRAINS WITH THE APPROVED ROOFING AND/OR WATER PROOFING SYSTEMS PRIOR TO SUBMITTING SHOP DRAWINGS.
4. THE TOP OF CURVE OF ALL FLOOR DRAINS SHALL BE FLUSH WITH THE ADJACENT FINISHED FLOOR.

PLUMBING EQUIPMENT SCHEDULE

EQUIPMENT		ITEM No.	SERVICE CONNECTION					MANUFACTURER AND EQUIPMENT	MODEL No.	REMARKS
			IW	W	V	CW	HW			
GREASE INTERCEPTOR										
BACKFLOW PREVENTER		BFP-1						WATTS REDUCED PRESSURE ZONE ASSEMBLY	909 OSY-RW w/909 AG	DOMESTIC WATER SERVICE SPILL TO FLOOR DRAIN
BACKFLOW PREVENTER		BFP-2						WATTS BACKFLOW PREVENTER w/ INTERMEDIATE ATMOSPHERIC VENT	9DM3	ICE MACHINE SPILL TO FLOOR DRAIN
SHOCK ARRESTOR		SA-C						J.R. SMITH SERIES 5000		LOCATE AS SHOWN ON PLAN
EXPANSION TANK										
KITCHEN	3 COMPARTMENT SINK									
	DISHWASHER									
	FREEZER									
	HANDSINK									
	2 COMPARTMENT SINK									
	ICE MACHINE									

PUMP SCHEDULE

DESIGNATION	NO. REQUIRED	SERVICE	MANUFACTURER AND MODEL NUMBER	PUMP										MOTOR					CONTROLS									SYSTEM						LOCATION	REMARKS
				FLOW RATE (G.P.M.)	MAXIMUM TOTAL DYNAMIC HEAD (FT.)	MINIMUM TOTAL DYNAMIC HEAD (FT.)	CASING PRESSURE (PSIG.)	STAGES	VERTICAL	HORIZONTAL	END SUCTION	IN LINE	SUBMERSIBLE	MINIMUM H.P.	R.P.M.	VOLTS	PHASE	CYCLES (HZ)	CONTROL PANEL	MANUAL CONTROL	AUTOMATIC CONTROL	TETHERED FLOAT	PILOT LIGHT	PRESSURE GAUGE RANGE	BMS CONNECTION	ALARMS REQUIRED	EMERGENCY POWER REQUIRED	SIMPLEX	DUPLEX	TRIPLEX	QUADPLEX	SKID MOUNTED	KNOCKED DOWN		
		DOM. BOOSTER PUMP		60		110		•						5		480			•										•			•			
		FIRE PUMP		500		147				•		•		77		480			•		•			•		•	•	•				•			
		JOCKEY PUMP		5		157				•				1		480					•			•			•								
		SUMP PUMP		35		45								3		480			•								•		•						
		SEWAGE EJECTOR		50		45								5		480			•								•		•						
		ELEV. SUMP PUMP		74		37								1/2		230			•									•							

NOTES:

1. REFER TO DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

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KEYPLAN

REVISIONS

No.	Description	Date
	100% CONST. DOCUMENTS	06/30/06
	90% CONST. DOCUMENTS	06/16/06
	50% CONST. DOCUMENTS	05/10/06
	100% DESIGN DEVELOPMENT	02/17/06
	50% DESIGN DEVELOPMENT	10/24/05

PROJECT NO. W050002
DATE: 06-30-06

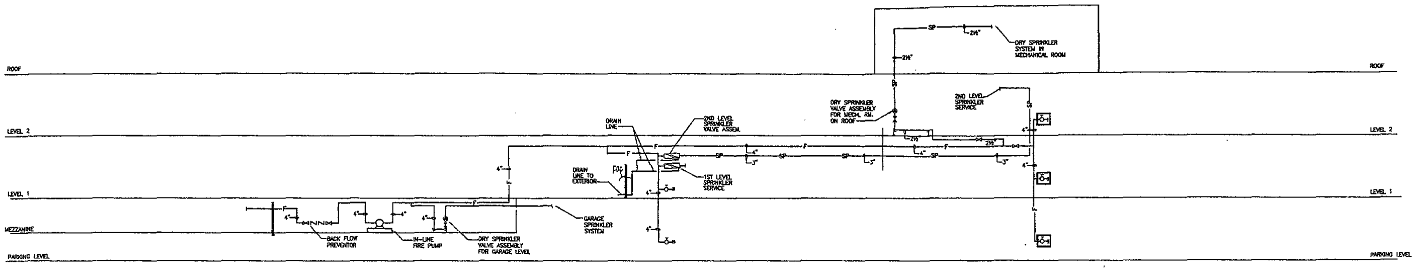
SHEET TITLE
PLUMBING
SCHEDULES

CONSTRUCTION
DOCUMENTS

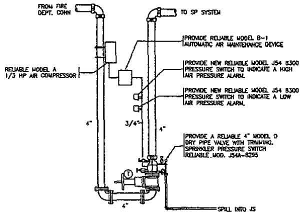
SCALE: NONE

SHEET NO. P.6-00
REVISION:

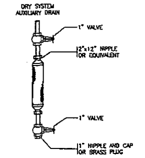
PLUMBING


ROOF
LEVEL 2
LEVEL 1
MEZZANINE
PARKING LEVEL
SP
2½"
DRY SPRINKLER SYSTEM IN MECHANICAL ROOM
DRY SPRINKLER VALVE ASSEMBLY FOR MECH. RM. ON ROOF
2ND LEVEL SPRINKLER SERVICE
DRAIN LINE
2ND LEVEL SPRINKLER VALVE ASSEM.
1ST LEVEL SPRINKLER SERVICE
DRAIN LINE TO EXTERIOR
FDC
F
4"
3"
BACK FLOW PREVENTOR
IN-LINE FIRE PUMP
DRY SPRINKLER VALVE ASSEMBLY FOR GARAGE LEVEL
GARAGE SPRINKLER SYSTEM

① SPRINKLER RISER DIAGRAM
SCALE: N.T.S.


FROM FIRE DEPT. CONN
TO SP SYSTEM
PROVIDE RELIABLE MODEL B-1 AUTOMATIC AIR MAINTENANCE DEVICE
RELIABLE MODEL A 1/3 HP AIR COMPRESSOR
PROVIDE NEW RELIABLE MODEL J54 B300 PRESSURE SWITCH TO INDICATE A HIGH AIR PRESSURE ALARM.
PROVIDE NEW RELIABLE MODEL J54 B300 PRESSURE SWITCH TO INDICATE A LOW AIR PRESSURE ALARM.
4"
3/4"
4"
PROVIDE A RELIABLE 4" MODEL D DRY PIPE VALVE WITH TRIMMING, SPRINKLER PRESSURE SWITCH RELIABLE MOD. J54A-B295
T
4"
SPILL INTO JS

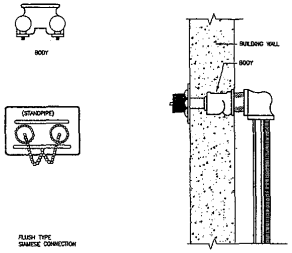
② DRY PIPE VALVE DETAIL (TYPE 2)
SCALE: N.T.S.


DRY SYSTEM AUXILIARY DRAIN
1" VALVE
2"x12" NIPPLE OR EQUIVALENT
1" VALVE
1" NIPPLE AND CAP OR BRASS PLUG

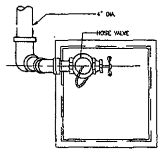
NOTE:

INSTALL ALL GARAGE SPRINKLER PIPING TIGHT TO UNDERSIDE OF BUILDING STRUCTURE AND PITCH ALL PIPING FOR COMPLETE DRAINAGE TO AUXILIARY DRAIN RIGS

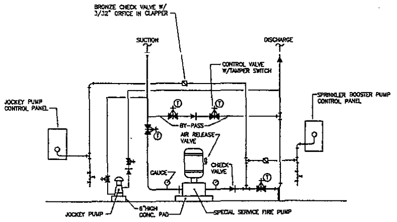
③ DRY PIPE SPRINKLER SYSTEM AUXILIARY DRAIN RIG
SCALE: 1/8"=1'-0"



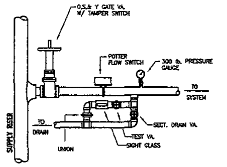
④ FIRE HYDRANT
SCALE: N.T.S.



⑤ VALVE CABINET
SCALE: N.T.S.


BRONZE CHECK VALVE W/ 3/32" ORFICE IN CLAPPER
SUCTION
DISCHARGE
CONTROL VALVE W/TAMPER SWITCH
JOCKEY PUMP CONTROL PANEL
SPRINKLER BOOSTER PUMP CONTROL PANEL
T
BY-PASS
AIR RELEASE VALVE
GAUGE
CHECK VALVE
JOCKEY PUMP
6"HIGH CONC. PAD
SPECIAL SERVICE FIRE PUMP

⑥ SPRINKLER BOOSTER PUMP SCHEMATIC
SCALE: N.T.S.



⑦ SPRINKLER FLOOR CONTROL VALVE
SCALE: N.T.S.

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PROJECT NO. W050002
DATE: 06-30-06

SHEET TITLE

FIRE PROTECTION
RISER DIAGRAM
AND DETAILS
CONSTRUCTION
DOCUMENTS

SCALE: NONE

SHEET NO.
FP.1-00

REVISION:

FIRE PROTECTION

DRAWING SYMBOLS

1. REFER TO SPECIFICATION SECTION 08710, DOOR HARDWARE, FOR DOOR RELATED SECURITY DEVICES.

2. REFER TO SPECIFICATION SECTION 13200 FOR ALL OTHER SECURITY DEVICES.

ICM V	VIDEO INTERCOM MASTER	VL	VEHICLE LOOP
ICS V	VIDEO INTERCOM SLAVE	FBLT	FLUSH BOLTS
EXR	EMERGENCY EXIT DEVICE, RIM	▽1	REQUEST TO EXIT PIR
EXC	EMERGENCY EXIT DEVICE, VERT. ROD	GB	SENTROL SHATTER PRO GLASS BREAK SENSOR
EXEL	EMERGENCY EXIT DEVICE, ELECTRIC LATCH	DVR	DIGITAL RECORDER
DUR	DURESS SWITCH	▭	VIDEO CAMERA
CR P	CARD READER, PROXIMITY	SP	SIGNAL PULL BOX
ESRS	ELECTRIC STRIKE, SECURE	Ⓙ	JUNCTION BOX
ESRS	ELECTRIC STRIKE, MORTISE, SECURE	⦶	120 VAC
DGP	REMOTE DATA PANEL	XFRH	TRANSFER HINGE
BMS1	BMS, ROLLUP DOOR		
MC	MAGNETIC CONTACT, SENTROL 1076D		

ABBREVIATIONS

ACTE	SINGLE CARD READER INTERFACE
ACTD	DUAL CARD READER INTERFACE
ADA	AMERICAN WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
BLT	BOLT
BMS	BALANCED MAGNETIC SWITCH
BOL	BOLLARD
BPS	BACKUP POWER SUPPLY
CAM	VIDEO CAMERA
CCTV	CLOSED CIRCUIT TELEVISION CAMERA
CMP	COMPUTER
COM	COMMUNICATIONS
CPN	CARD READER, PIN PAD
CR	CARD READER
CMS	COMMAND MONITOR STATION
DG	FIELD PANEL
DUR	DURESS PUSHBUTTON
EML	ELECTROMAGNETIC LOCK
ENR	ENROLLMENT
ES	ELECTRIC STRIKE LOCK
EX	EXIT DEVICE
FIM	FOUR WIRE INTERFACE MODULE
F BLT	FLUSH BOLT
FO	FIBER OPTIC
FOR	FIBER OPTIC RECEIVER
FOT	FIBER OPTIC TRANSCEIVER
FS	FILE SERVER
GAT	HANDICAP ACCESS GATE
HNG	HINGE
ICM	INTERCOM MASTER STATION
ICS	INTERCOM SLAVE STATION
JB	JUNCTION BOX
KEY	KEY SWITCH
MON	VIDEO MONITOR
PB	PULL BOX
PIR	PASSIVE INFRARED SENSOR
PPU	PRE-PROCESSOR UNIT
PR	PAIR
PTZ	PAN, TILT, ZOOM
PWR	AC POWER OUTLET
REX	REQUEST FOR EXIT PUSHBUTTON
RIM	REMOTE INPUT MODULE
RTU	REMOTE TERMINAL UNIT
SG	SECURITY GATE
SGR	SECURITY GATE REMOTE RELEASE
STP	SHIELDED TWISTED PAIR
TVI	CCTV, INTERIOR
TVE	CCTV WITH ENVIRONMENTAL HOUSING
TRN	TURNSTILE
UPS	UNINTERUPTABLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VCM	VERSATILE COMMUNICATIONS MODEL
VEH	VEHICLE SENSOR LOOP
VHL	VEHICLE LOOP
VS	VIDEO SWITCHER
WS	WORK STATION
XFR	TRANSFORMER

WIRE & CABLE TYPES

TYPE	MFG.	MFG NO.	DESCRIPTION
A	BELDEN	9290	RG-6/U COAXIAL CABLE, .288" OD, .065 SQ IN, CCTV
B	BELDEN	8461	18 AWG, STRANDED 7X26, 1 TWISTED PAIR, .234" OD, .043 SQ IN, POWER
C	BELDEN	9156	18 AWG, STRANDED 16X30, 2 TWISTED PAIR, .333" OD, .088 SQ IN, POWER
D	BELDEN	8471	16 AWG, STRANDED 19X29, 1 TWISTED PAIR, .274" OD, .059 SQ IN, POWER
E	BELDEN	8473	14 AWG, STRANDED 42X30, 1 TWISTED PAIR, .340" OD, .091 SQ IN, POWER
F	BELDEN	8477	12 AWG, STRANDED 65X30, 1 TWISTED PAIR, .386" OD, .117 SQ IN, POWER
G	BELDEN	8444	22 AWG, STRANDED 7X30, 2 TWISTED PAIR, .185" OD, .027 SQ IN, DATA
H	BELDEN	8747	22 AWG, STRANDED 7X30, 6 TWISTED PAIR, .320" OD, .080 SQ IN, DATA
I	BELDEN	9842	24 AWG, STRANDED 7X32, 2 TWISTED PAIR, .232" OD, .042 SQ IN, COMM
K	BELDEN	9814	18 AWG, STRANDED 19X30, 2 SH TWISTED PAIR, .245" OD, .047 SQ IN, DATA

LEGEND

		CONDUIT FILL AREA SQ IN (MM^2)
— -·· —	4" (100MM) CONDUIT	4.87 (3141)
-·· —· – -	3" (75MM) CONDUIT	2.73 (1767)
– – – –	2" (50MM) CONDUIT	1.22 (785)
- - - - -	1" (25MM) CONDUIT	.30 (196)
-·-·-·-·-	POWER	

DEVICE MOUNTING DETAILS

DEVICE NO	DETAIL NO	WIRE LGTH
CR 1-01	B	60
HNG 1-01	B	0
ICS 1-01	B	60
LCK 1-01	B	60
MC 1-01A	B	60
MC 1-01B	B	60
MC 1-03A	SIMILAR B	55
MC 1-03B	SIMILAR B	55
MC 1-02	SIMILAR B	72
MC 1-04	SIMILAR B	90
MC 1-05	SIMILAR B	40
BMS M-01	D	125
DG 1-01	C	0
DVR 1-01	C	0
CR ELEV		60
GB 1-01	F	92
GB 1-02	F	70
GB 1-03	F	51
GB 1-04	F	80
GB 1-05	F	60
GB 1-06	F	30
GB 1-07	F	40
GB 1-08	F	30
ICM 1-01	DESK TOP	60
MC 3-01	SIMILAR B	20
MC P-02	SIMILAR B	15
MC P-01	SIMILAR B	75
PWR 1-01	C	0
PWR 1-02	C	0
TVE M-01	E	100
TVE P-01	E	70
TVE P-02	E	20
TVE P-03	E	105
VL M-01	MFG	25
VL M-02	MFG	25

GENERAL NOTES:

1. CARD READERS ARE INTERFACED WITH DOOR CONTACTS AND ELECTROMECHANICAL LOCKS.

2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF FINAL SECURITY EQUIPMENT LAYOUT. CONFLICTS IF ANY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE.

3. SECURITY SYSTEM ARCHITECTURE, SYSTEM COMPONENTS, CONDUCTORS, AND OTHER ATTENDANT INSTALLATION ASPECTS MAY VARY DEPENDING UPON WHICH MANUFACTURERS ARE APPROVED. CONTRACTOR SHALL VALIDATE INSTALLATION REQUIREMENTS BASED UPON APPROVED MANUFACTURERS.

4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS AND COMPONENTS TO PROVIDE A FULLY OPERATIONAL SECURITY SYSTEM. ALL TERMINATIONS, INTERMEDIATE CABINETS, ETC. SHALL BE INCLUDED.

5. CONFLICTS BETWEEN THE SECURITY DRAWINGS AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE.

6. REFER TO SPECIFICATION SECTION 13200 FOR SECURITY RESTRICTIONS AND COORDINATION OF WORK.

7. SECURITY CLOSET REQUIRES 120 VAC ELECTRICAL POWER.

8. ALL WIRE RUNS SHALL BE HOME RUN IN EMT OR RIGID CONDUIT. A SPARE PULL WIRE SHALL BE INSTALLED IN EACH CONDUIT.

9. ALL CCTV CAMERAS SHALL BE HOME RUN WITH RG-6 CABLE.

10. CONTRACTOR SHALL SUBMIT CONDUIT AND CONDUCTOR SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY WORK.

12. CONTRACTOR SHALL OBSERVE ALL MANUFACTURERS INSTRUCTIONS WITH REGARD TO WIRE TYPES.

13. VARIOUS MANUFACTURERS SHOWN FOR DESIGN PURPOSES ONLY. OTHER MANUFACTURERS ACCEPTABLE UPON APPROVAL IN ACCORDANCE WITH SPECIFICATION SECTION 13200.

14. SECURITY CONTRACTOR TO REFER TO DOOR HARDWARE SCHEDULE FOR SECURITY HARDWARE. CONFLICTS BETWEEN DRAWINGS AND SCHEDULE SHOULD BE REFERRED TO OWNERS REPRESENTATIVE FOR RESOLUTION.

15. DOOR HARDWARE. CONTRACTOR TO VERIFY HARDWARE TYPES BEFORE INSTALLATION OF ANY SECURITY COMPONENTS. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER.

16. CONTRACTOR TO COORDINATE FINAL CARD READER LOCATIONS WITH INTERIORS ARCHITECT PRIOR TO INSTALLATION.

17. ELECTRICAL CONTRACTOR TO COORDINATE WITH SECURITY CONTRACTOR FOR FINAL EQUIPMENT POSITIONING.

18. VEHICLE SENSOR LOOPS SHOWN FOR CONTROL OF COILING DOOR. GC SHALL COORDINATE WITH SECURITY CONTRACTOR FOR DEVICE LOCATIONS.

GENERAL CONSTRUCTION NOTE:

1. SECURITY ITEMS ARE DIVIDED INTO 2 CATEGORIES - SECURITY DEVICES AND INFRASTRUCTURE. THE SECURITY CONTRACTOR IS RESPONSIBLE FOR INSTALLLING ALL SECURITY DEVICES AND WIRING EXCEPT THOSE PROVIDED BY THE DOOR HARDWARE CONTRACTOR. THE GC IS RESPONSIBLE FOR INSTALLING ALL CONDUIT, BACKBOXES, AND SIGNAL PULL BOXES.

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KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO.
HOK: 04-14021-00

DATE:
06-30-06

SHEET TITLE
SECURITY NOTES
SYMBOLS AND
ABBREVIATIONS

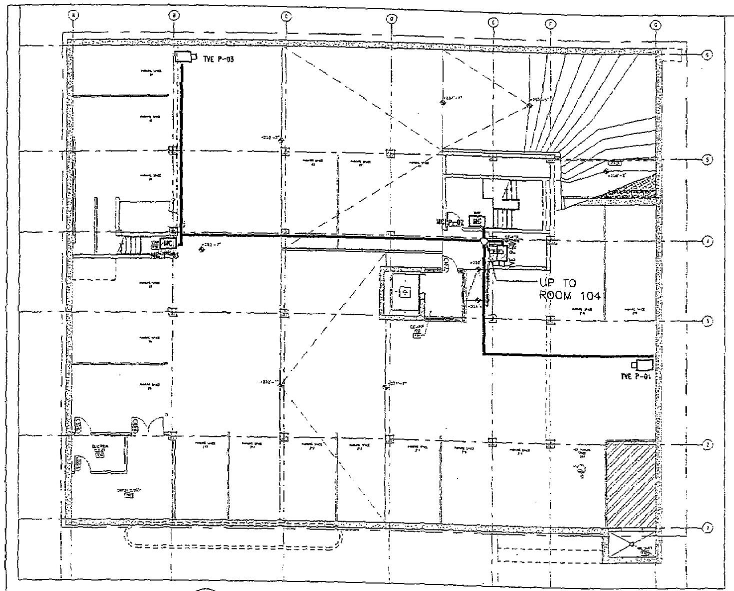
CONSTRUCTION
DOCUMENTS

SCALE: NONE

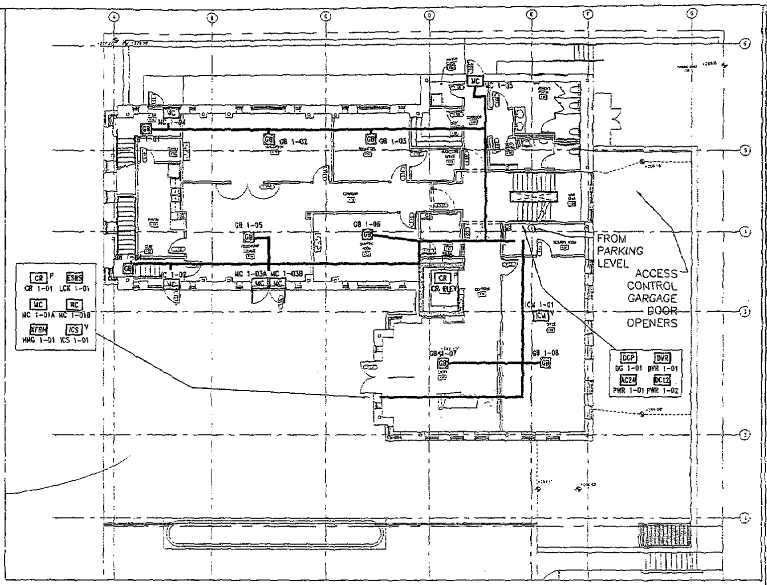
SHEET NO.
SC.1-00

REVISION:

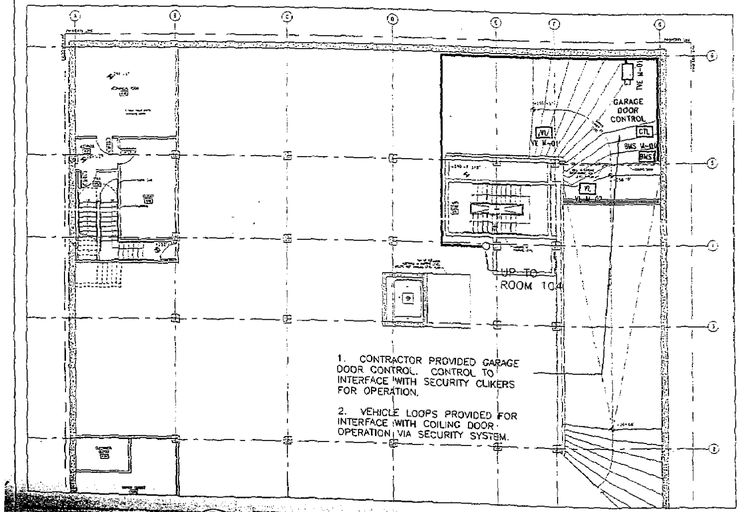
SECURITY



A PARKING LEVEL
1/8" = 1'-0"



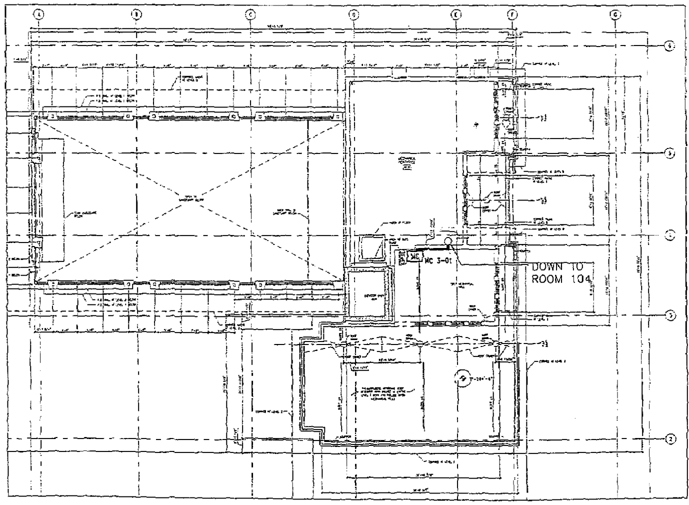
B FLOOR 1
1/8" = 1'-0"



1. CONTRACTOR PROVIDED GARAGE DOOR CONTROL. CONTROL TO INTERFACE WITH SECURITY CLIKERS FOR OPERATION.

2. VEHICLE LOOPS PROVIDED FOR INTERFACE WITH COILING DOOR OPERATION VIA SECURITY SYSTEM.

C MEZZANINE LEVEL



D FLOOR 3
1/8" = 1'-0"

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SCALE
0 8' 16'

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-

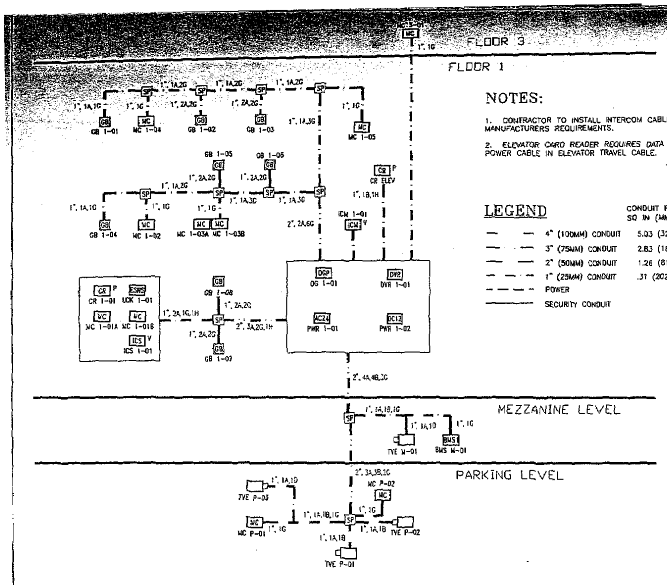
SHEET TITLE
SECURITY
FLOOR
PLANS

CONSTRUCTION
DOCUMENTS

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

SHEET NO.
SC.1-01

SECURITY



NOTES:

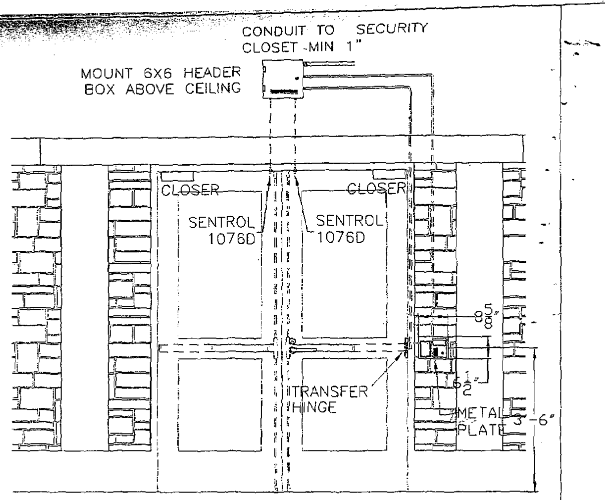
1. CONTRACTOR TO INSTALL INTERCOM CABLES PER MANUFACTURERS REQUIREMENTS.

2. ELEVATOR CARD READER REQUIRES DATA AND POWER CABLE IN ELEVATOR TRAVEL CABLE.

LEGEND

		CONDUIT FILL AREA SQ IN (MM^2)
— —	4" (100MM) CONDUIT	5.03 (3243)
— - - —	3" (75MM) CONDUIT	2.83 (1824)
—— ——	2" (50MM) CONDUIT	1.26 (810)
— — - —	1" (25MM) CONDUIT	.31 (202)
- — — -	POWER	
———	SECURITY CONDUIT	

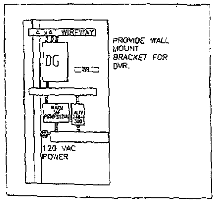
A SECURITY RISER
NONE



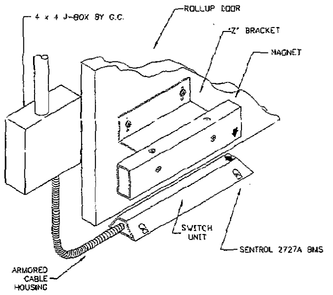
1. REFER TO DOOR HARDWARE FOR ADDTIONAL COMPONENTS.

2. PROVIDE 4" BACKBOX FOR MOUNTING CARD READER AND INTERCOM. ATTACH PLATE TO BACK BOX FOR MOUNTING DEVICES. PROVIDE PLATE SAMPLE TO CONSTRUCTION MANAGER.

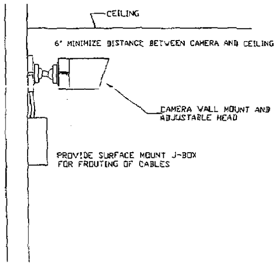
B FRONT DOOR
1/8" = 1'-0"
0 8' 16' 24'



C SECURITY CLOSET ELEVATION
1/2" = 1'-0"



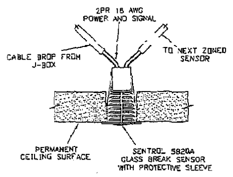
D ROLLUP DOOR BMS
NONE


CEILING
6" MINIMIZE DISTANCE BETWEEN CAMERA AND CEILING
CAMERA WALL MOUNT AND ADJUSTABLE HEAD
PROVIDE SURFACE MOUNT J-BOX FOR FROUTING OF CABLES

E CCTV CAMERA
NONE

NOTES:

1. ROUTE CONDUIT FROM CABLE TRAY TO J-BOX.
2. 1 INCH HOLE IN CEILING FOR PRESS FIT FOR SENSOR.
3. SENSORS HOME RUN UNLESS DRAWING INDICATES ZONES.
4. POWER IN SERIES BETWEEN SENSORS.


2PR 18 AWG POWER AND SIGNAL
CABLE DROP FROM J-BOX
TO NEXT ZONED SENSOR
PERMANENT CEILING SURFACE
SENTROL 5820A GLASS BREAK SENSOR WITH PROTECTIVE SLEEVE

F GLASS BREAK SENSOR
NONE

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KEYPLAN

REVISIONS

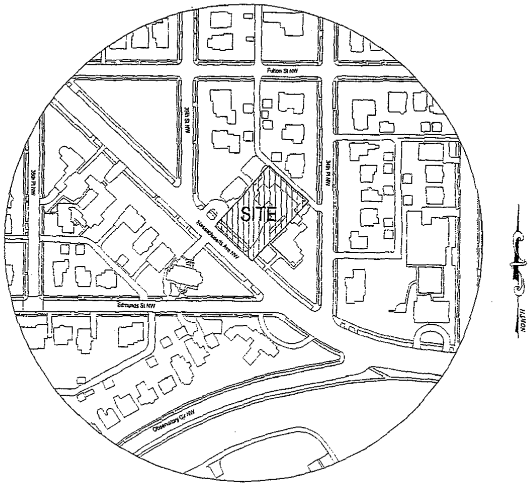
PROJECT NO. HOK: 04-14021-00
DATE: 06-30-0

SHEET TITLE
SECURITY
RISER
DETAILS

CONSTRUCTION
DOCUMENTS

SCALE: 1/8"=1'-0"
SHEET NO. SC 1-02

PERMANENT FILE



VICINITY MAP
(NO SCALE)

GENERAL NOTES:

1. EXISTING CONDITIONS WERE REPRODUCED FROM SURVEYS PREPARED BY WMC DATED AUGUST 2004 AND FROM UTILITY RECORDS.
2. WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATION AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE ARCHITECT.
3. VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE MR. TED DYSON, DC DPW AND "MISS UTILITY" (1800-257-7777) 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATIONS. HAND DIG TEST PITS AT ALL UTILITY CROSSINGS AND DETERMINE EXACT CLEARANCE OF ALL PROPOSED INSTALLATIONS WELL IN ADVANCE OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS WITH PLAN ELEVATIONS.
4. WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE D.C. DPW STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PLUMBING CODE.
5. ELEVATIONS SHOWN HEREON ARE BASED ON D.C. DATUM.
6. DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT, CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE. UNLESS OTHERWISE NOTED.
7. FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
8. OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INFORMATION CONCERNING FOUND UTILITY, NOT SHOWN ON PLANS.
9. EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. CONTRACTOR TO COORDINATE EXTENT WITH ARCHITECT
10. TEST PITS ARE REQUIRED AT ALL LOCATION(S) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATION(S) TO IDENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
11. IF A 1' MINIMUM VERTICAL CLEARANCE CAN NOT BE MAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
12. TRANSITION CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND ON GRADE OR AS DIRECTED BY ENGINEER.
13. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
14. ALL ON-SITE WATER LINES TO HAVE A MINIMUM COVER OF 4'-0" WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER DPW STANDARDS.
15. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
16. REMOVE FRAMES AND COVERS OF SEWER MANHOLE/INLETS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO GRADE.
17. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA. IF AN ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED. SEE DRAWINGS C.06 AND C.07 FOR SEDIMENTATION AND EROSION CONTROL PLAN AND DETAILS.
18. ALL CURB SPOT SHOTS ARE TOP OF CURB, UNLESS OTHERWISE NOTED.
19. NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. CHUCK WHITLEY AT WASHINGTON GAS AT 703-750-4205.
20. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES.
21. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND PROPOSED FACILITIES
22. ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS - WATER AND SEWER UTILITY AUTHORITY. *
23. CONTRACTOR TO BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING AND UNDERPINNING, DESIGNED BY STRUCTURAL ENGINEER LICENSED IN DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK, CURB AND GUTTER TO REMAIN OR TO REPLACE SIDEWALK, CURB AND GUTTER DAMAGED DURING CONSTRUCTION
25. EXISTING FULL DEPTH PAVEMENT SECTION, CURB AND GUTTER TO BE REMOVED AND REPLACED TO EXTENT NECESSARY TO FACILITATE CONSTRUCTION OF NEW UTILITIES. MATERIALS TO COMPLY WITH DC/DPW STANDARDS AND SPECIFICATIONS.

DRAWING INDEX

C.00	GENERAL NOTES AND VICINITY MAP
C.01	EXISTING CONDITION PLAN
C.02	DEMOLITION PLAN
C.03	SITE AND UTILITY PLAN
C.04	SITE GRADING PLAN
C.05	SITE DETAILS
C.06	UTILITY PROFILES
C.07	SEDIMENTATION AND EROSION CONTROL PLAN
C.08	SEDIMENTATION AND EROSION CONTROL DETAILS
C.09	STORM WATER MANAGMENT PLAN (GREEN ROOF)
C.09A	STORM WATER MANAGEMENT PLAN (GREEN ROOF)

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900499
10-10-06

KEYPLAN

REVISIONS

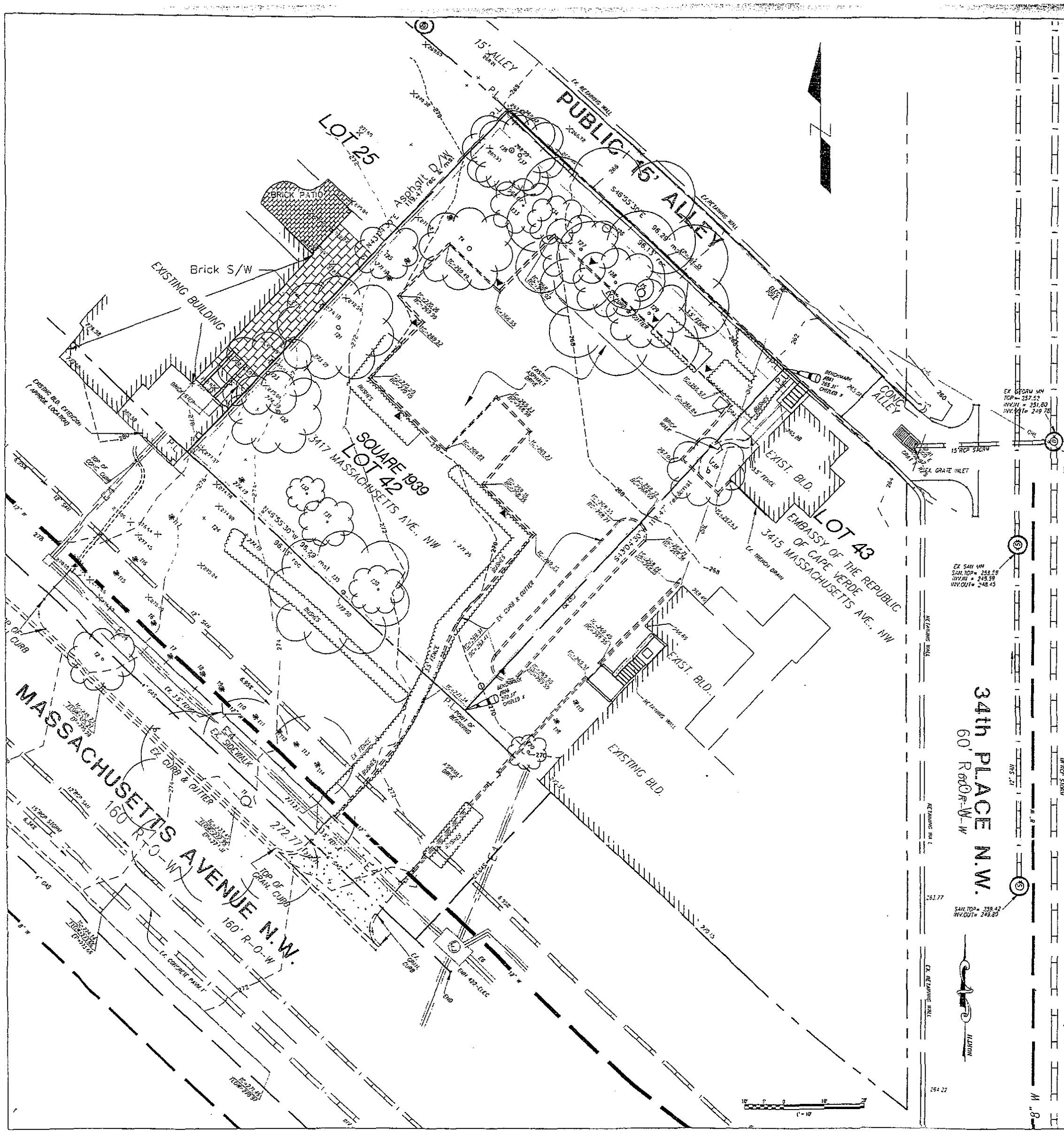
No.	Description	Date
1	ADDENDUM 1	08-01-06

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
GENERAL NOTES
AND
VICINITY MAP
CONSTRUCTION
DOCUMENTS

SCALE:
SHEET NO. C-00
REVISION

CIVIL



NOTE:

EXISTING UTILITIES TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE CONSTRUCTION. UTILITIES TO BE CAPPED AND ABANDONED PER UTILITY SURVEYOR'S STANDARDS AND SPECIFICATION PRIOR TO ANY DEMOLITION.

CONTACT 'MISS UTILITY' AT 1 800 257-7777 48 HOURS PRIOR TO CONSTRUCTION.

CONTACT DEPARTMENT OF PUBLIC WORKS–PUBLIC SPACE MAINTENANCE ADMINISTRATION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (202)645-6030 OR (202)645-6031..

ALL PROPOSED WORK TO BE PERFORMED UNDER THE INSPECTION OF THE DEPARTMENT OF PUBLIC WORKS AND DCWASA. USE MANHOLE ENTRY SEALS WHERE REQUIRED.

- NOTE PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAIN CONTINUED SERVICE DURING CONSTRUCTION. COORDINATE WITH RESPECTIVE UTILITY COMPANIES AND ENGINEER SHOULD RELOCATION OF SERVICE BE REQUIRED.

LEGEND

ELECTRIC LINE & STRUCTURE	
TELEPHONE LINE & STRUCTURE	T
LIGHT POLE, STREET LIGHT	EX'G LP
SANITARY LINE & MH	EX 12" SAN SEW (S)
STORM INLET	
STORM LINE	EX 28'-18" STM.
GAS LINE & VALVE	EX (V) 6"G GAS
WATER LINE & MH	(W) 6"W
WATER STRUCTURES	E WV E FH
TEST PIT REQUIRED	
PARKING METER	(P)
CHAIN LINK FENCE	×——×——×——×
CONTOURS	302
SPOT ELEVATIONS	× 303.25
FACE OF BUILDING	DOOR
CONCRETE SIDEWALK	
CURB & GUTTER	
HEADER CURB	
EDGE OF PAVEMENT	EX EP
PAVING AREA	▨
PAVEMENT MARKING	⇨
RETAINING WALL	

ABBREVIATIONS

APX	APPROXIMATE	JB	JERSEY BARRIER
ASP	BITUMINOUS CONCRETE	LOD	LIMIT OF DISTURBANCE
BC	BOTTOM OF CURB	LP	LIGHT POLE
BLDG	BUILDING	MH	MANHOLE (STRUCTURE)
BRK	BRICK	O/H	OVERHEAD
BS	BOTTOM OF STEP	OHE	OVER HEAD ELECTRIC
CC	CONCRETE CURB	PCC	PORTLAND CONCRETE CEMENT
CG	CURB & GUTTER	P.L.	PROPERTY LINE
CJ	CONTRACTION JOINT	PM	PARKING METER
CL	CENTER LINE	PROP	PROPOSED
CLF	CHAIN LINK FENCE	RAD	RADIUS
CO	CLEAN OUT	SAN	SANITARY
CONC.	CONCRETE	SEW	SEWER
COMB	COMBINE(D)	STD	STANDARD
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
DOM	DOMESTIC	STY	STORY (FLOOR)
DWG	DRAWING(S)	S/W	SIDEWALK
E	ELECTRICAL	T	TELEPHONE
ELEV	ELEVATION	TYP	TYPICAL
ELEC	ELECTRIC(AL)	UGE	UNDERGROUND ELECTRIC UTILITY
ENT	ENTRANCE	UGG	UNDERGROUND GAS UTILITY
EX	EXISTING	UGSM	UNDERGROUND SEWER MAIN
FH	FIRE HYDRANT	UGW	UNDERGROUND WATER UTILITY
FT	FEET/FOOT	W	WATER
G	GAS	WL	WATER LINE
GRD	GUARD	WM	WATER MAIN
GRNT	GRANITE	WV	WATER VALVE
		XHCI	EXTRA HEAVY CAST IRON PIPE

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KEYPLAN

REVISIONS

No.	Description	Date
1	ADDENDUM 1	08-01-06

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
EXISTING CONDITION PLAN

CONSTRUCTION DOCUMENTS

SCALE:

SHEET NO. C-01
REVISION

HELLMUTH, OBATA & KASSABAUM, P.C. © 200

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DEMOLITION NOTES

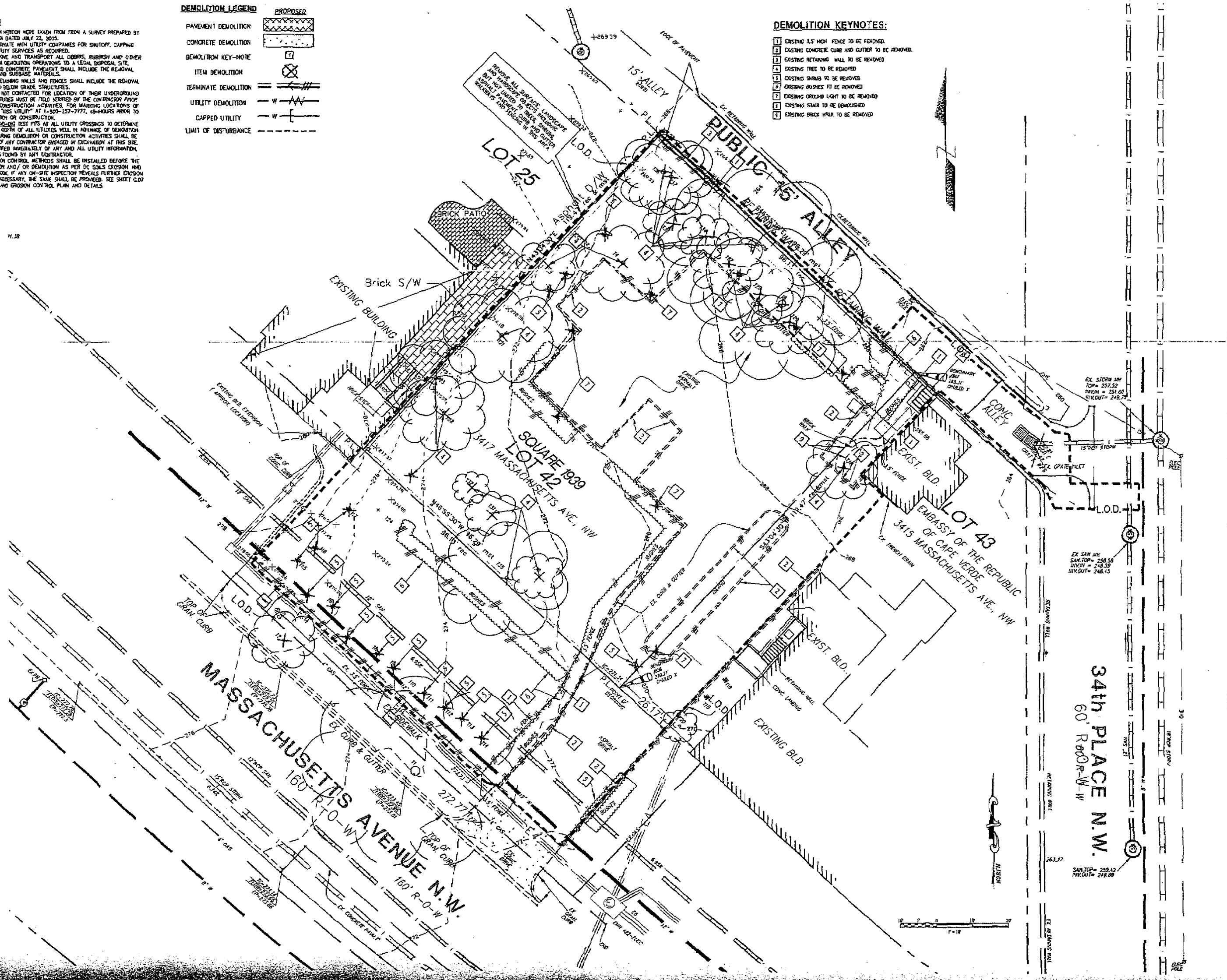
1. EXISTING CONDITIONS SHOWN HEREON WERE TAKEN FROM FROM A SURVEY PREPARED BY WILES MENSCH CORPORATION DATED JULY 22, 2005.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
3. CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS TO A LEGAL DISPOSAL SITE.
4. REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE REMOVAL OF ALL SURFACE, BASE AND SUBBASE MATERIALS.
5. REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF ALL FOUNDATIONS AND BELOW GRADE STRUCTURES.
6. UTILITY COMPANIES WERE NOT CONTACTED FOR LOCATION OF THEIR UNDERGROUND UTILITIES. UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITIES. FOR MARKING LOCATIONS OF EXISTING UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-257-7777, 48-HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.
7. THE CONTRACTOR MUST HAND-DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF DEMOLITION WORK. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL UTILITY INFORMATION, OMISSIONS AND ADDITIONS FOUND BY ANY CONTRACTOR.
8. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/ OR DEMOLITION AS PER DC SOILS EROSION AND SEDIMENT CONTROL HANDBOOK. IF ANY ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED. SEE SHEET C.07 AND C.08 FOR SEDIMENT AND EROSION CONTROL PLAN AND DETAILS.

DEMOLITION LEGEND

	PROPOSED
PAVEMENT DEMOLITION	▨
CONCRETE DEMOLITION	⁘
DEMOLITION KEY-NOTE	1
ITEM DEMOLITION	⊗
TERMINATE DEMOLITION	═ ≠ ##
UTILITY DEMOLITION	— W —/\/\/—
CAPPED UTILITY	— W —[—
LIMIT OF DISTURBANCE	- - - - - - -

DEMOLITION KEYNOTES:

1. EXISTING 3.5' HIGH FENCE TO BE REMOVED.
2. EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED.
3. EXISTING RETAINING WALL TO BE REMOVED
4. EXISTING TREE TO BE REMOVED
5. EXISTING SHRUB TO BE REMOVED
6. EXISTING BUSHES TO BE REMOVED
7. EXISTING GROUND LIGHT TO BE REMOVED
8. EXISTING STAIR TO BE DEMOLISHED
9. EXISTING BRICK WALK TO BE REMOVED



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3/19/07

KEYPLAN

REVISIONS

No.	Description	Date
1	ADDENDUM 1	08-01-06
2	DC/WASA COMMENTS	11-16-06

PROJECT NO.: HOK: 04-14021-00
DATE: 06-30-0

SHEET TITLE
DEMOLITION PLAN

CONSTRUCTION DOCUMENTS

SCALE:
SHEET NO. C-02
REVISION:

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DC/WASA GENERAL NOTES:

1. NOTIFY DC/WASA ONE WEEK PRIOR TO START OF CONSTRUCTION, UTILITY INSPECTION SECTION AT 202-787-4299, WATER SERVICES 202-612-3400 OR 3460 AND SEWER SERVICES 202-264-3824 OR 3629.
2. DEVELOPERS, CONTRACTORS AND PLUMBERS MUST SUBMIT FINAL CONSTRUCTION AS-BUILT INFORMATION TO APPROPRIATE DC/WASA INSPECTOR(S) FOR REVIEW AND APPROVAL.
3. ONCE THE WASA INSPECTOR APPROVES THE AS-BUILT, A COPY MUST BE SUBMITTED TO THE DOCUMENTS AND PERMITS OFFICE AND THE WATER AND SEWER DESIGN SECTION AT 5000 OVERLOOK AVENUE, S.W., 5TH FLOOR.
4. UNDER DC/WASA CUSTOMER FEES AND CHARGES, CONTRACTORS, PLUMBERS, OWNERS ARE RESPONSIBLE FOR EXCAVATIONS, BACKFILLING, REPAVING AND RESTORATION OF PUBLIC SPACE FOR STREET AND SIDEWALKS CUTS, FOR NEW UTILITIES, CONNECTIONS, TAPS AND ABANDONMENT OF SERVICES WITHIN PUBLIC SPACE UNDER DC/WASA INSPECTION. DC/WASA IS NOT RESPONSIBLE FOR FINAL RESTORATION OF STREET AND SIDEWALK CUTS PERFORMED

METER & METER TRANSMITTING DEVICES NOTES:

THE AUTHORITY HAS INSTALLED A FIXED NETWORK AUTOMATIC METER READING SYSTEM. THIS SYSTEM WILL ELIMINATE THE REQUIREMENT TO READ METERS MANUALLY. METERS INSTALLED BY WASA OR PRIVATE OWNERS OF METERS WILL NEED TO MEET THE FOLLOWING SPECIFICATIONS IN ORDER FOR WASA TO READ METERS AUTOMATICALLY:

1. METERS, INSTALLATIONS AND INSPECTIONS MUST COMPLY WITH ALL DCWR CODES AND SPECIFICATIONS.
2. ALL NEW METERS INSTALLED, INCLUDING PRIVATELY OWNED METERS MUST BE "TRUE ABSOLUTE ENCODER" TYPE METERS OR "DIRECT-READ" METERS THAT CONVERT METER READINGS TO DIGITAL PULSES FROM THE METER REGISTERS.
3. ALL METER REGISTERS SHOULD BE ABLE TO CONVERT ALL THE DIALS IN THE METER REGISTER TO DIGITAL PULSES.
4. THE METERS MUST MEASURE WATER IN 100 CUBIC FEET INCREMENTS. ALL NEW METERS MUST HAVE A METER READING TRANSMITTING UNIT ATTACHED TO THE METER REGISTERS, SEALED SO AS TO MAKE IT WATER TIGHT. THE TRANSMITTING UNIT SHOULD BE PROGRAMMABLE TO DCWASA'S FCC APPROVED RADIO FREQUENCY, AND COMPATIBLE WITH HEXAGRAM, INC. HARDWARE AND SOFTWARE.
5. ALL NEW METERS 3" OR GREATER MUST HAVE TEST PLUG IN THE METER.
6. ALL NEW METERING CONFIGURATIONS SHOULD HAVE STRAINER WHERE APPROPRIATE TO MANUFACTURER'S SPECIFICATIONS.

OUTSIDE LOCATIONS:

A. THE NEW METER LID MUST BE OF A COMPOSITION AND TENSILE STRENGTH SO AS TO PERMIT A RADIO SIGNAL TO PROPAGATE THROUGH THE METER LID AND SECURE THE METER PIT, AGAINST LIGHT VEHICLE TRAFFIC AND PEDESTRIAN FOOT TRAFFIC. LARGE METER INSTALLATIONS MUST HAVE METER LIDS THAT MAY WITHSTAND HEAVY VEHICLE TRAFFIC.
B. THE RADIO-TRANSMITTING DEVICE MUST BE SECURELY ANCHORED TO THE UNDERSIDE OF THE NEW TRANSMITTER FRIENDLY METER LID, SO AS TO PERMIT A RADIO SIGNAL TO COMMUNICATE WITH A DATA COLLECTION UNIT.
C. THE RADIO-TRANSMITTING DEVICE MAY ALSO BE INSTALLED THROUGH THE EXISTING CAST IRON METER LID OR A NEW CAST IRON METER LIDS SO AS PERMIT A SIGNAL TO COMMUNICATE WITH A DATA COLLECTION DEVICE AND POSE NO TRIPPING HAZARD

APPROVED METERS, METER LIDS AND MTU CURRENTLY USED BY DCWASA:

1. HEXAGRAM INC. METER TRANSMITTING UNIT.
2. ABB WATER METERS INC. WITH MTU PERMANENTLY POTTED AT THE FACTORY
   - MODEL C3000 2"-8" COMPOUND METERS.
3. ARMORCAST INC.
   - METER LID 21 1/2" METER LID MAY NEED TO BE HEAVY DUTY CAST IRON WITH THE RADIO TRANSMITTING DEVICE INSTALLED THROUGH THE EXISTING CAST IRON METER LID TO ALLOW REMOVAL OF THE LARGER SIZE METERS

** CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION ALONG THE EXISTING STORM DRAIN OVER WHICH STRUCTURE D2 WILL BE CONSTRUCTED, AND SUBMIT THE VIDEO TAPE AS A SUBMITTAL TO THE A/E FOR APPROVAL

PROPOSED KEYNOTE:

1 NEW 6" FIRE SERVICE AND 6" WATER VALVE CASING PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. W/30.01.
2 NEW 3" DIP CLASS 52 DOMESTIC SERVICE PER DC/WASA STANDARDS AND SPECIFICATIONS. BFP WATTS 709 COMPLY WITH ASSE1015.
3 NEW 4" DIP CLASS 52 FIRE SERVICE PER DC/WASA STANDARDS AND SPECIFICATIONS. BFP WATTS 709 DCDA COMPLY WITH ASSE1048.
4 PROPOSED STAIR. REFER ARCHITECTURAL/LANDSCAPE DRAWINGS FOR DETAIL.
5 NEW TELECOM LINE. REFER TO ELECTRICAL DRAWING FOR DETAILS. CONTRACTOR TO COORDINATE REQUIREMENTS AND POSSIBLE ROUTING WITH VERIZON.
6 PROPOSED 4-4" ELECTRIC CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR DETAILS AND ACTUAL LOCATION. CONTRACTOR TO COORDINATE POSSIBLE ROUTING WITH PEPCO.
7 MODIFIED 4' DIAMETER DROP MANHOLE WITH DOGHOUSE BASE PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. S/20.01 AND S/25.01.
8 NEW 10" PVC SDR35 SANITARY SEWER PER DC/WASA STANDARDS AND SPECIFICATIONS.
9 ~~REPAIR OR~~ REPLACE THE EXISTING INLET ~~[illegible]~~ DURING THE INSTALLATION OF 10" SANITARY SEWER PIPE.
10 NEW 15" RCP STORM LINE.
11 PROPOSED PVC SHEDULE 40 STORM SEWER FROM AREA DRAIN TO BUILDING PRIVATELY OWNED AND MAINTAINED. REFER PLUMBING DRAWING FOR CONNECTION.
12 PROPOSED TRENCH DRAIN. REFER TO ARCHITECTURAL DRAWING FOR ACTUAL LOCATION AND PLUMBING DRAWING FOR CONNECTION.
13 PROPOSED PVC SCHEDULE 40 SANITARY PIPE. REFER PLUMBING DRAWING FOR CONNECTION.
14 PROPOSED UNDERGROUND PARKING/BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
15 PROPOSED WATER METER PER DC/WASA STANDARDS AND SPECIFICATION.REFER TO DC/WASA DRAWING DGW/25.01 FOR DETAIL.
16 PROPOSED CONCRETE THRUST BLOCK PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA DRAWING W/40.01. COORDINATE REQUIREMENTS WITH DC/WASA INSPECTOR MR. TED DYSON AT 202-787-2377.
17 PROPOSED 12"X12" AREA DRAIN. PRIVATELY OWNED AND MAINTAINED. REFER TO SHEET C-05 FOR DETAIL AND SPECIFICATION
18 PROPOSED RETAINING WALL. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAIL.
19 PROPOSED 4" DIA AREA DRAIN. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR DETAIL.
20 NEW 1 1/4" GAS SERVICE. COORDINATE REQUIREMENTS WITH WASHINGTON GAS AT 703-750-5983.
21 PROPOSED CONCRETE CURB
22 ASPHALT TO BE RESURFACED
23 PROPOSED ASPHALT AREA
24 PROPOSED INCOMING PHONE SERVICE CONDUIT. CONTRACTOR TO COORDINATE POSSIBLE ROUTING WITH VERIZON.
25 REFER TO ARCHITECTURAL PLANS FOR PAVERS DETAIL.
26 PROPOSED SIAMESE CONNECTION. REFER TO PLUMBING DRAWINGS.
27 THE CONTRACTOR IS TO CLEAN THE EXISTING PIPE FROM ANY DEBRIS OR CONCRETE FROM THE EXISTING STORM INLET TO EXISTING SEWER MANHOLE.

* THESE DIMENSIONS TO THE FACE OF CURB ARE AT THE REQUEST OF DC PERMITTING OFFICE. VERIFY LOCATION OF UTILITIES WITH MEP DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. REFER TO MEP DRAWINGS FOR ACTUAL LOCATION.

◐ TEST PITS ARE REQUIRED AT ALL PROPOSED UTILITY CROSSINGS WITH ALL EXISTING UTILITY LINES TO DETERMINE THE EXACT HORIZONTAL LOCATION, ELEVATION AND AND SIZE OF THE EXISTING UTILITIES. A MINIMUM OF ONE FOOT VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN EXISTING AND PROPOSED UTILITIES. TEST PITS SHOULD BE COMPLETED PRIOR TO ORDERING ANY STRUCTURES OR PIPE MATERIALS. NOTIFY ENGINEER OF ANY CONFLICT WITH PROPOSED PLANS.

NOTES:

1. EXISTING WATER AND SEWER SERVICES MUST BE ABANDONED BEFORE NEW CONNECTIONS ARE MADE.
2. PERMANENT WATER CONNECTIONS MUST BE INSTALLED FOR ALL CONSTRUCTION PURPOSES
3. ALL DC/WASA DETAILS SHOWN ON THE DRAWING REFER TO THE DC/WASA STANDARD DETAILS BOOK DATED JULY 31, 2001.

LEGEND

EXISTING — PROPOSED

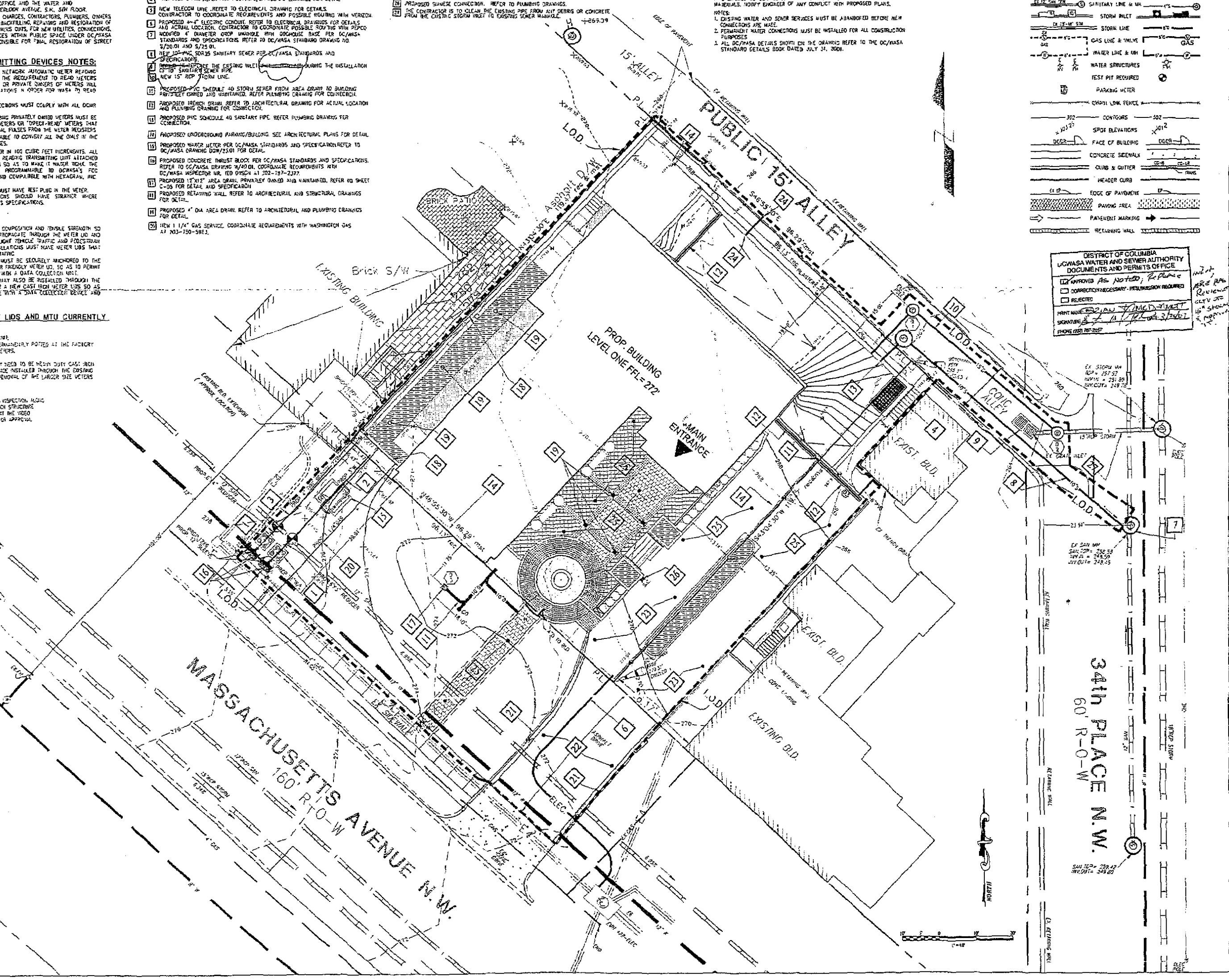
- ELECTRIC LINE & STRUCTURE
- TELEPHONE LINE & STRUCTURE
- LIGHT POLE, STREET LIGHT
- SANITARY LINE & MH
- STORM INLET
- STORM LINE
- GAS LINE & VALVE
- WATER LINE & MH
- WATER STRUCTURES
- TEST PIT REQUIRED
- PARKING METER
- CHAIN LINK FENCE
- CONTOURS
- SPOT ELEVATIONS
- FACE OF BUILDING
- CONCRETE SIDEWALK
- CURB & GUTTER
- HEADER CURB
- EDGE OF PAVEMENT
- PAVING AREA
- PAVEMENT MARKING
- RETAINING WALL

DISTRICT OF COLUMBIA
DCWASA WATER AND SEWER AUTHORITY
DOCUMENTS AND PERMITS OFFICE

☑ APPROVED As noted; Replace
☐ CORRECTION NECESSARY - RESUBMISSION REQUIRED
☐ REJECTED

PRINT NAME: Brian T. McDermott
SIGNATURE: DATE: 3/26/07
PHONE (202) 787-2057

inlet, make H&b Review city 30 15" storm required



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900495
3/19/07

KEYPLAN

REVISIONS

No.	Description	Date
1	ADDENDUM 1	08-21-06
2	DC/WASA COMMENTS	11-16-06

PROJECT NO: HOK 04-14021-00
DATE: 06-30-06

SHEET TITLE

SITE AND UTILITY PLAN

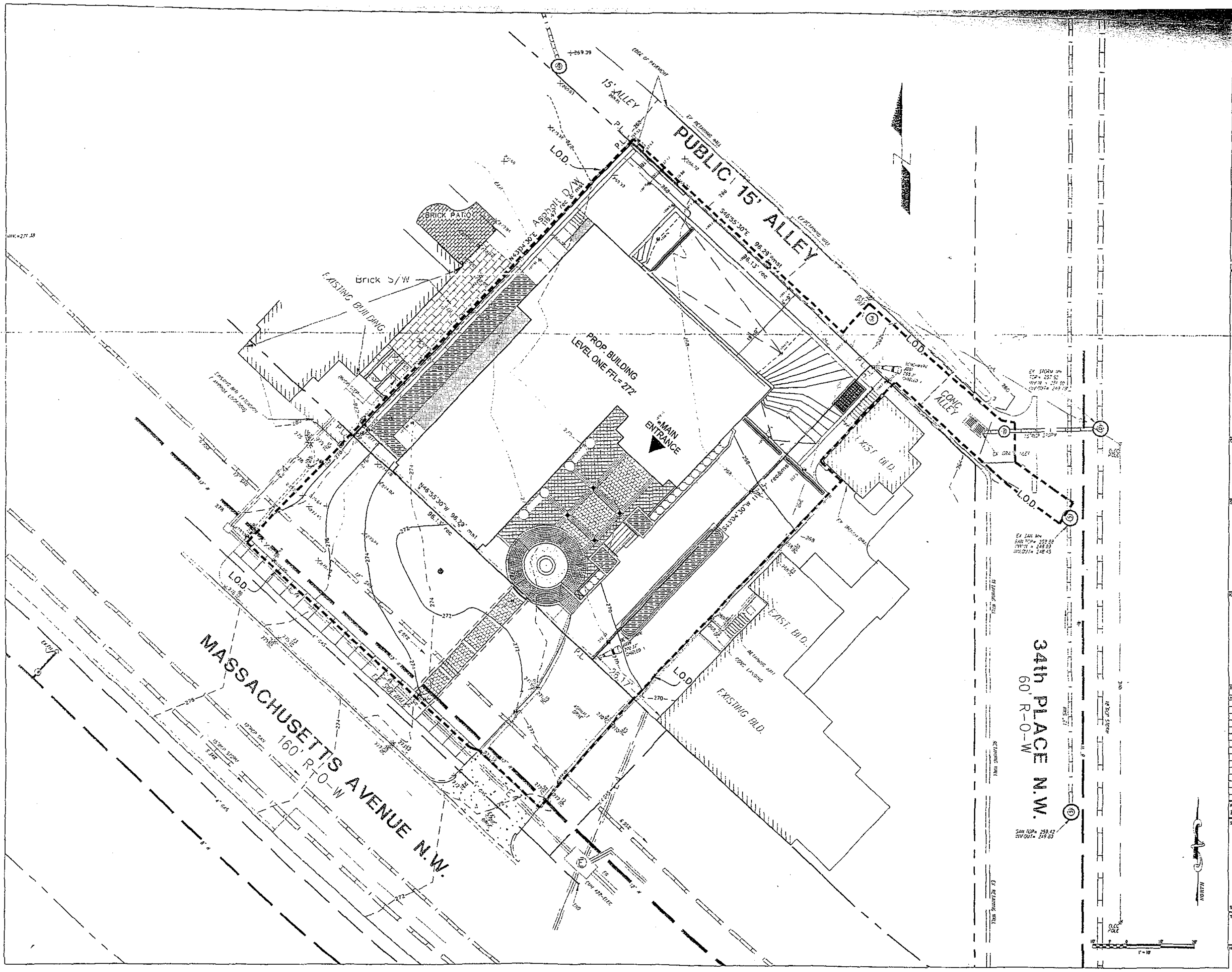
CONSTRUCTION DOCUMENTS

SCALE: 1"=10'

SHEET NO.: C-03

REVISION:

CIVIL



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KEYPLAN

REVISIONS

No.	Description	Date
1	ADDENDUM 1	05-01-06
2	DC/NASA COMMENTS	11-16-06

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE

SITE GRADING PLAN

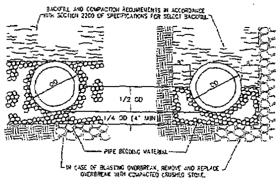
CONSTRUCTION DOCUMENTS

SCALE: 1" = 10'

SHEET NO. C-04

REVISION:

CIVIL


BACKFILL AND COMPACTION REQUIREMENTS IN ACCORDANCE WITH SECTION 2200 OF SPECIFICATIONS FOR SELECT BACKFILL
OD
1/2 OD
1/4 OD (4" MIN)
PIPE BEDDING MATERIAL
IN CASE OF BLASTING OVERBREAK, REMOVE AND REPLACE OVERBREAK WITH COMPACTED CRUSHED STONE.

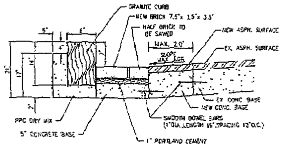
BACKFILL AT CROWN
(PIPE BEDDING FOR TRENCH WIDTH EXCEEDING WIDTH SPECIFIED)

BACKFILL AT SPRINGLINE
(PIPE BEDDING FOR TRENCH WIDTH WITHIN WIDTH SPECIFIED)

TRENCHING METHODS MUST BE IN COMPLIANCE WITH OSHA REQUIREMENTS.

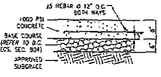
THE PIPE SHALL BE BEDDED IN CAREFULLY COMPACTED PIPE BEDDING MATERIAL PLACED ON A FLAT TRENCH BOTTOM. THE PIPE BEDDING MATERIAL SHALL HAVE A MINIMUM HORIZONTAL THICKNESS OF ONE-FOURTH THE OUTSIDE PIPE DIAMETER (8" MINIMUM) AND SHALL EXTEND VERTICALLY IN ACCORDANCE WITH SECTION SHOWN. IF THE MAXIMUM WIDTH OF THE TRENCH AT THE TOP OF THE PIPE EXCEEDS THOSE SPECIFIED, PIPE BEDDING MATERIAL WILL BE BROUGHT TO THE TOP OF THE PIPE FOR THE FULL WIDTH OF THE TRENCH. THE REMAINDER OF THE SIDE FILLS AND OVER THE TOP OF THE PIPE SHALL BE FILLED WITH SELECT BACKFILL MATERIAL. SHOULD THE CONTRACTOR ELECT TO USE LARGER STONE TO CARRY THE WATER, THE LARGER STONE IS TO BE PLACED BENEATH THE SPECIFIED AMOUNT OF PIPE BEDDING MATERIAL. THE LARGER STONE IS NOT IN ANY WAY TO AFFECT THE AMOUNT OF PIPE BEDDING TO BE USED.

TYPICAL TRENCH SECTIONS
(NOT TO SCALE)



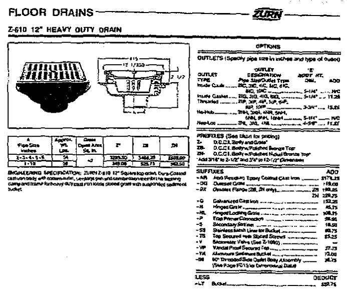
NOTE:
- NEW SURFACE, BASE AND SUBBASE COURSES TO MATCH EXISTING.
- ASPHALT PAVEMENT MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS & TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS.

GRANITE CURB & BRICK GUTTER DETAIL
(NOT TO SCALE)


#5 REBAR @ 12" O.C. BOTH WAYS
4000 PSI CONCRETE
BASE COURSE (REFER TO D.C. SPECS. SEC. 304)
APPROVED SUBGRADE
8"
3"
6"

NOTE:
1- REFER TO SITE PLAN FOR JOINT LOCATIONS
2- PROVIDE EXPANSION JOINTS ALONG FACE OF BUILDINGS, WHERE NEW CONCRETE PAVEMENT MEETS EXISTING AT ALL FIXED OBJECT AND AS SHOWN ON THE SITE PLAN.

TYPICAL CONCRETE PAVEMENT DETAIL FOR DRIVEWAY APRON
(NOT TO SCALE)



FLOOR DRAINS — ZURN

Z-610 12" HEAVY DUTY DRAIN

A Pipe Size Inches	Approx. Wt. Lbs.	Grate Open Area Sq. In.	Z*	ZB	ZN
2-3-4-5-6	54	42	329.50	466.25	528.00
8-10	58		349.00	525.75	582.50

ENGINEERING SPECIFICATION: ZURN Z-610 12" Square top drain, Dura-Coated cast iron body with bottom outlet, seepage pan and combination membrane clamp and frame for heavy duty cast iron loose slotted grate with suspended sediment bucket.

OPTIONS

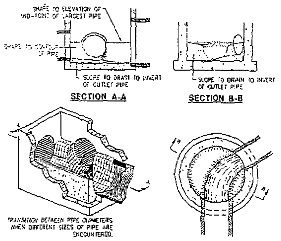
OUTLETS (Specify pipe size in inches and type of outlet)

OUTLET TYPE	OUTLET DESIGNATION Pipe Size/Outlet Type	"E" BODY HT. DIM.	ADD
Inside Caulk	2IC, 3IC, 4IC, 5IC, 6IC, 8IC, 10IC	5-1/4"	N/C
Inside Gasket	2IG, 3IG, 4IG, 6IG	5-1/4"	11.25
Threaded	2IP, 3IP, 4IP, 5IP, 6IP, 8IP, 10IP	3-3/4"	15.25
No-Hub	2NH, 3NH, 4NH, 5NH, 6NH, 8NH, 10NH	5-1/4"	N/C
Neo-Loc	2NL, 3NL, 4NL	4-5/8"	15.25

PREFIXES (See chart for pricing)
Z- D.C.C.I. Body and Grate*
ZB- D.C.C.I. Body w/Polished Bronze Top
ZN- D.C.C.I. Body w/Polished Nickel Bronze Top
*Add 3/16" to 2-1/2" and 3/4" to 12-1/2" Dimension

SUFFIXES		ADD
-AR	Acid Resisting Epoxy Coated Cast Iron	$178.25
-DG	Oversize Grate	119.00
-DX	Oversize Flange (ZB, ZN only) ZB	190.25
	ZN	229.75
-G	Galvanized Cast Iron	152.25
-H	Hinged Grate	45.75
-HL	Hinged Locking Grate	108.75
-P	Trap Primer Connection	38.50
-S	Secondary Strainer	18.50
-SS	Stainless Mesh Liner for Bucket	80.75
-TS	Top Secured with Slotted Screws	15.25
-V	Backwater Valve (See Z-1090)	—
-VP	Vandal Proof Secured Top	37.75
-YA	Aluminum Sediment Bucket	73.00
-90	90° Threaded Side Outlet Body Assembly (See Page FD15 for Dimensional Data)	38.75

LESS		DEDUCT
-LY	Bucket	$32.75


SHAPE TO ELEVATION OF MID-POINT OF LARGEST PIPE
SHAPE TO CONTOUR OF PIPE
SLOPE TO DRAIN TO INVERT OF OUTLET PIPE
SLOPE TO DRAIN TO INVERT OF OUTLET PIPE
A
B

SECTION A-A

SECTION B-B

TRANSITION BETWEEN PIPE DIAMETERS WHEN DIFFERENT SIZES OF PIPE ARE ENCOUNTERED.

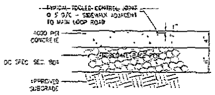
NOTES:

SHAPING OF MANHOLES AND INLET INVERTS IN ACCORDANCE WITH THIS DRAWING IS TO APPLY TO THOSE STRUCTURES SPECIFIED ON PLANS OR WHERE INVERT OF PIPE IS ABOVE INVERT OF STRUCTURE.

MANHOLE OR DROP INLET IS TO BE FORMED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE STANDARD OR SPECIAL DRAWING. THE INVERT SHAPING AS DETAILED HEREON IS TO CONSIST OF A PORTLAND CEMENT CONCRETE MIX CONFORMING TO CLASS A3 OR CLASS C1, EXCEPT THAT 25% OF COARSE AGGREGATE MAY BE UP TO 4" DIAMETER AND CONSIST OF STONE, BROKEN BRICK, BROKEN CONCRETE, OR BROKEN CONCRETE BLOCK. THE SURFACE SHALL BE LEFT SMOOTH BY MEANS OF HAND TROWELLING. NONE OF THE COARSE AGGREGATE SHALL REMAIN EXPOSED.

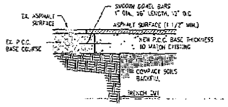
DETAILS OF INVERT SHAPING AS SHOWN HEREON ARE FOR EXAMPLE PURPOSES ONLY. EACH MANHOLE OR DROP INLET IS TO BE SHAPED INDIVIDUALLY TO BEST FIT THE PARTICULAR INLET AND OUTLET CONFIGURATION AND FLOW LINES.

MANHOLE SHAPING METHOD
(NOT TO SCALE)


TYPICAL TOOLED CONTROL JOINT @ 5' O/C - SIDEWALK ADJACENT TO MAIN LOOP ROAD
1"
4000 PSI CONCRETE
DC SPEC. SEC. 304
APPROVED SUBGRADE

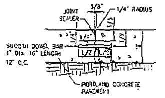
NOTE:
1. PROVIDE EXPANSION JOINT WHERE NEW CONCRETE SIDEWALK MEETS EXISTING.
2. REFER TO SITE PLAN FOR JOINT LOCATION.

TYPICAL CONCRETE SIDEWALK
(NOT TO SCALE)

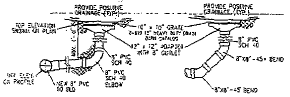

SMOOTH DOWEL BARS 1" DIA., 16" LENGTH, 12" O.C.
EX. ASPHALT SURFACE
ASPHALT SURFACE (1 1/2" MIN.)
EX. P.C.C. BASE COURSE
NEW P.C.C. BASE THICKNESS TO MATCH EXISTING
COMPACT SOILS BACKFILL
TRENCH CUT

NOTE:
- NEW SURFACE, BASE AND SUBBASE COURSES TO MATCH EXISTING.
- ASPHALT PAVEMENT MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS

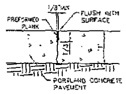
PAVEMENT REPAIR DETAIL
(NOT TO SCALE)


JOINT SEALER
3/8"
1/4" RADIUS
SMOOTH DOWEL BAR 1" DIA. 16" LENGTH 12" O.C.
1/4"
L/2
L/2
PORTLAND CONCRETE PAVEMENT

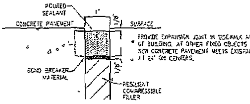
CONTRACTION JOINT WITH LOAD TRANSFER FOR CONCRETE DRIVEWAY APRON
(NOT TO SCALE)


PROVIDE POSITIVE DRAINAGE (TYP.)
PROVIDE POSITIVE DRAINAGE (TYP.)
TOP ELEVATION SHOWN ON PLAN
10" x 10" GRATE Z-610 12" HEAVY DUTY DRAIN ZURN CATALOG
12" x 12" ADAPTER WITH 8" OUTLET
8" PVC SCH 40
8" PVC SCH 40
8" PVC SCH 40 ELBOW
8"X8" - 45° BEND
8"X8" - 45° BEND
INV. ELEV. SHOWN ON PROFILE
NEW 8" PVC TO BLD

TYPICAL AREA DRAIN
(NOT TO SCALE)

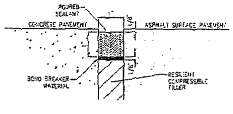


SIDEWALK CONTRACTION JOINT
(NOT TO SCALE)

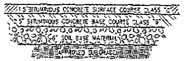


- PROVIDE EXPANSION JOINT IN SIDEWALK AT FACE OF BUILDING, AT OTHER FIXED OBJECTS WHERE NEW CONCRETE PAVEMENT MEETS EXISTING AND AT 24' ON CENTERS.

SIDEWALK EXPANSION JOINT DETAIL
(NOT TO SCALE)

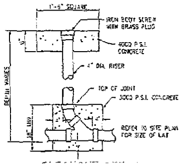


EXPANSION JOINT BETWEEN THE CONCRETE AND ASPHALT PAVEMENT DETAIL
(NOT TO SCALE)

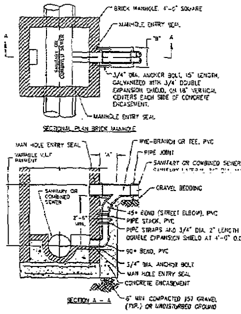

1.5" BITUMINOUS CONCRETE SURFACE COURSE CLASS "C"
2.5" BITUMINOUS CONCRETE BASE COURSE CLASS "B"
6" SOIL BASE MATERIAL
APPROVED SUBGRADE

STANDARD PAVEMENT TYPICAL ASPHALT
(NOT TO SCALE)

NOTE:
- ASPHALT AND SOIL BASE MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS.
- TESTS OF SUBGRADE MUST BE SUBMITTED FOR ACTUAL DETERMINATION OF SUBBASE THICKNESS PRIOR TO CONSTRUCTION AND PAVEMENT DESIGN ADJUSTED IF REQUIRED



CLEANOUT DETAIL
(NOT TO SCALE)

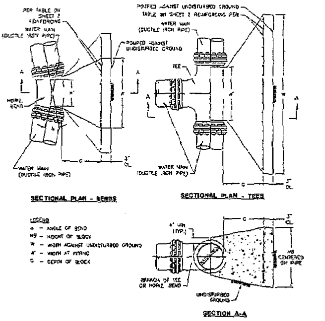

BRICK MANHOLE, 4'-0" SQUARE
MANHOLE ENTRY SEAL
"B"
A
SANITARY OR COMBINED SEWER
3/4" DIA. ANCHOR BOLT, 15" LENGTH, GALVANIZED WITH 3/4" DOUBLE EXPANSION SHIELD, ON 18" VERTICAL CENTERS EACH SIDE OF CONCRETE ENCASEMENT.
MANHOLE ENTRY SEAL
MAN HOLE ENTRY SEAL
VARIABLE V.L.F. PAVEMENT
"A"
WYE-BRANCH OR TEE, PVC
PIPE JOINT
SANITARY OR COMBINED SEWER, OR SANITARY LATERAL
GRAVEL BEDDING
SANITARY OR COMBINED SEWER
2'-6" MIN.
45° BEND (STREET ELBOW), PVC
PIPE STACK, PVC
PIPE STRAPS AND 3/4" DIA. 2" LENGTH BOLTS W/ DOUBLE EXPANSION SHIELD AT 4'-0" O.C. MAXIMUM
90° BEND, PVC
3/4" DIA. ANCHOR BOLT
MAN HOLE ENTRY SEAL
CONCRETE ENCASEMENT
6" MIN COMPACTED #57 GRAVEL (TYP.) OR UNDISTURBED GROUND

SECTIONAL PLAN BRICK MANHOLE

SECTION A - A

EXISTING DROP MANHOLE WITH NEW OUTSIDE DROP CONNECTION
(NOT TO SCALE)

SEWER OR LATERAL DIAMETER	STACK PIPE DIAMETER	DIMENSIONS "A" & "B"
4"	4"	15"
6"	6"	15"
8"	8"	20"
10"	10"	22"
12"	10"	22"
15"	12"	24"
18"	15"	27"
21"	18"	30"
24"	21"	33"


PER TABLE ON SHEET 2 REINFORCING
WATER MAIN (DUCTILE IRON PIPE)
POURED AGAINST UNDISTURBED GROUND
HORIZ. BEND
W
W'
C
3"
CL
WATER MAIN (DUCTILE IRON PIPE)
POURED AGAINST UNDISTURBED GROUND
TABLE ON SHEET 2 REINFORCING PER
TEE
A
4" MIN (TYP.)
HB CENTERED ON PIPE
BRANCH OF TEE OR HORIZ. BEND
UNDISTURBED GROUND

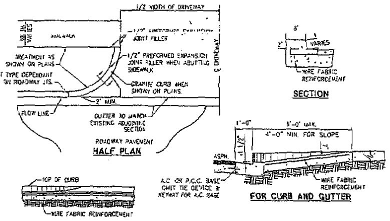
SECTIONAL PLAN - BENDS

SECTIONAL PLAN - TEES

SECTION A-A

LEGEND
a - ANGLE OF BEND
HB - HEIGHT OF BLOCK
W - WIDTH AGAINST UNDISTURBED GROUND
W' - WIDTH AT FITTING
C - DEPTH OF BLOCK

THRUST BLOCK DETAIL
(NOT TO SCALE)


1/2 WIDTH OF DRIVEWAY
SIDEWALK
VARIES
1/2" PREFORMED EXPANSION JOINT FILLER
TREATMENT AS SHOWN ON PLANS
1/2" PREFORMED EXPANSION JOINT FILLER WHEN ABUTTING SIDEWALK
JOINT TYPE DEPENDANT ON ROADWAY JTS.
GRANITE CURB WHEN SHOWN ON PLANS.
℄ DRIVEWAY
2' MIN.
FLOW LINE
GUTTER TO MATCH EXISTING ADJOINING SECTION
ROADWAY PAVEMENT
8"
VARIES
WIRE FABRIC REINFORCEMENT
1'-0"
6'-0" MAX.
4'-0" MIN. FOR SLOPE
ASPH.
1 1/2"
A.C. OR P.C.C. BASE OMIT TIE DEVICE & KEYWAY FOR A.C. BASE
WIRE FABRIC REINFORCEMENT
TOP OF CURB
WIRE FABRIC REINFORCEMENT

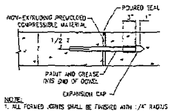
HALF PLAN

SECTION

FOR CURB AND GUTTER

SECTION ELEVATION AT GUTTER LINE

DRIVEWAY ENTRANCE
(NOT TO SCALE)


POURED SEAL
NON-EXTRUDING PREMOLDED COMPRESSIBLE MATERIAL
3"
1"
1/2 T
T
PAINT AND GREASE THIS END OF DOWEL
EXPANSION CAP

NOTE:
1. ALL FORMED JOINTS SHALL BE FINISHED WITH 1/4" RADIUS
2. SIZE AND SPACING OF DOWELS IN TRANSITION SECTION SHALL BE GOVERNED BY THICKEST EDGE.

THICKNESS OF SLAB	DOWELS		
	DIAMETER	LENGTH	SPACING
	1"	16"	12"

DOWELED TRANSVERSE EXPANSION JOINT FOR CONCRETE DRIVEWAY APRON
(NOT TO SCALE)

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900495
3/19/9

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

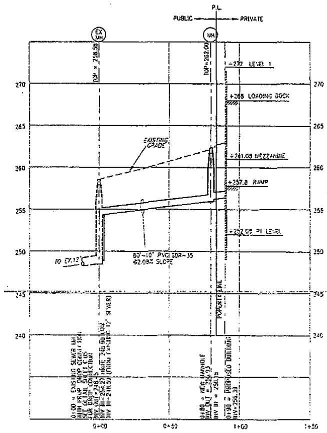
SHEET TITLE
SITE DETAILS

CONSTRUCTION DOCUMENTS

SCALE: N.T.S.

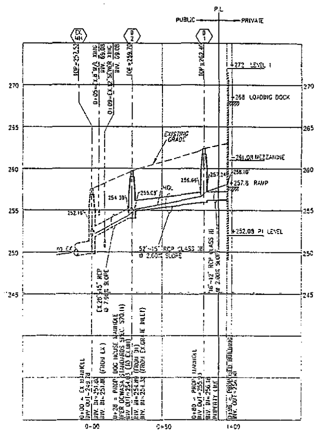
SHEET NO. C-05
REVISION:

CIVIL



PROPOSED SANITARY LINE PROFILE

SCALE: HORIZ 1" = 30'
VERT 1" = 5'



PROPOSED STORM LINE PROFILE

SCALE: HORIZ 1" = 30'
VERT 1" = 5'

HYDRAULIC GRADE LINE SUMMARY SHEET

Struct No.	Down Stream HGL Elev	Struct Loss	Up Stream HGL Elev	Upstream Pipe Slope (%)	Downstream Pipe Slope (%)	Length of Upstream Pipe (ft)	Length of Downstream Pipe (ft)	Normal Depth Upstream (ft)	Normal Depth Downstream (ft)	Flow Upstream (cfs)	Flow Downstream (cfs)	Velocity Upstream (fps)	Velocity Downstream (fps)
EX MH			252.16	7.96		28		0.36		3.33		11.31	
D2	254.39	0.69	255.08	2.00	7.96	52	28	0.48	0.36	2.87	3.33	6.60	11.31
D1	256.66	0.58	257.24	2.00	2.00	16	52	0.54	0.48	2.87	2.87	6.64	6.60
BLDG (NE)	258.10				2.00		16		0.54				
BLDG (SW)			270.45	1.00		19.7		0.15		0.16	0.16	2.33	
D3	270.65				1.00		19.7		0.15		0.16		2.33

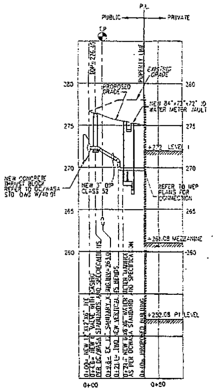
BUDDHIST CULTURE
HGL COMPUTATIONS

EXMH
15 in SD invert in = 251.80
Yn=0.36 upstream
HGL at upstream side of EXMH = 251.80 + 0.36 = 252.16

D2
15 in SD inv out = 254.03
15 in SD inv in = 254.89
Yn=0.36 downstream
Yn=0.48 upstream
HGL at downstream side of D2 = 254.03 + 0.36 = 254.39

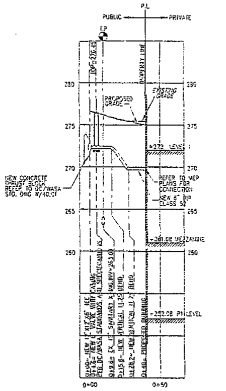
Losses at D2
d=45 deg
Kd=0.47 from chart
Vin=6.60 fps
Vout=11.31 fps
Ke=0.35
Ko=0.25

Entrance losf =Hi=0.35 x 6.66 x6.66/ (2g) = 0.24 ft
Contraction loss=Ho=0.25 x 11.31 x 11.31 /(2g) =0.50 ft
Bend loss=Hd=0.47 x 6.60 x 6.60 /(2g) = 0.32 ft
Total losses = 0.24 + 0.50 + 0.32 = 1.06 ft
Plunging loss=Hp=1.3 x 1.06 = 1.38 ft
Inlet shaping reduction = 0.50 x 1.38 = 0.69ft
Total head loss at D2=0.69 ft
HGL at upstream location in D2 = 254.39 + 0.69 = 255.08


P.L.
PUBLIC
PRIVATE
EXISTING GRADE
PROPOSED GRADE
NEW 84"x72"x72" ID WATER METER VAULT
+272 LEVEL 1
NEW CONCRETE THRUST BLOCK REFER TO DC/WASA STD. DWG #/40.01
NEW 3" DIP CLASS 52
REFER TO MEP PLANS FOR CONNECTION
+261.08 MEZZANINE
+252.08 P1 LEVEL
0+00
0+50

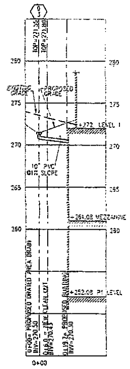
PROPOSED DOMESTIC WATER LINE PROFILE

SCALE: HORIZ 1" = 30'
VERT 1" = 5'



PROPOSED FIRE SERVICE PROFILE

SCALE: HORIZ 1" = 30'
VERT 1" = 5'



(PRIVATE)
PROPOSED YARD INLET PROFILE

SCALE: HORIZ 1" = 30'
VERT 1" = 5'

STORM DRAIN COMPUTATION

FROM STR #	TO STR #	DRAINAGE AREA (ac)	RUNOFF C	C x AREA IN	C x AREA ADD	C x AREA SUM	TIME OF CONC. TO MIN	TIME OF CONC. IN MIN	TIME OF CONC. ACCU MIN	I IN/HR	INC. CFS	ADDITION CFS	TOTAL CFS	DIA IN.	SLOPE FT/FT	n	Q CFS	VELOCITY FULL FPS	VELOCITY ACTU. FPS
D3	BLD	0.07	0.35	0.02	0.00	0.02	5	0	5	7.56	0.2	0.0	0.2	10	0.01	0.013	2.2	4.019	2.492
BLD	MH-1	0.42	0.85	0.36	0.00	0.36	5	0	5	7.56	2.7	0.2	2.9	12	0.02	0.013	5.0	6.418	6.643
MH-1	MH-2	0.00	0.00	0.00	0.00	0.00	5	0	5	7.56	0.0	2.9	2.9	15	0.02	0.013	9.1	7.448	6.733
MH-2	EX MH	0.06	0.95	0.06	0.00	0.06	5	0	5	7.56	0.4	2.9	3.3	15	0.0796	0.013	18.2	14.86	11.23

* Drainage area calculated based on the available DCWASA drainage map by assuming the worst case scinario

TEST PITS ARE REQUIRED AT ALL PROPOSED UTILITY CROSSINGS WITH ALL EXISTING UTILITY LINES TO DETERMINE THE EXACT HORIZONTAL LOCATION, ELEVATION AND ADD SIZE OF THE EXISTING UTILITIES. A MINIMUM OF ONE FOOT VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN EXISTING AND PROPOSED UTILITIES. TEST PITS SHOULD BE COMPLETED PRIOR TO ORDERING ANY STRUCTURES OR PIPE MATERIALS. NOTIFY ENGINEER OF ANY CONFLICT WITH PROPOSED PLANS.

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JEFF ABRAVESH
900499
3/19/07

REVISIONS

No.	Description	Date
1	ADDENDUM 1	04-01-05

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
UTILITY PROFILES

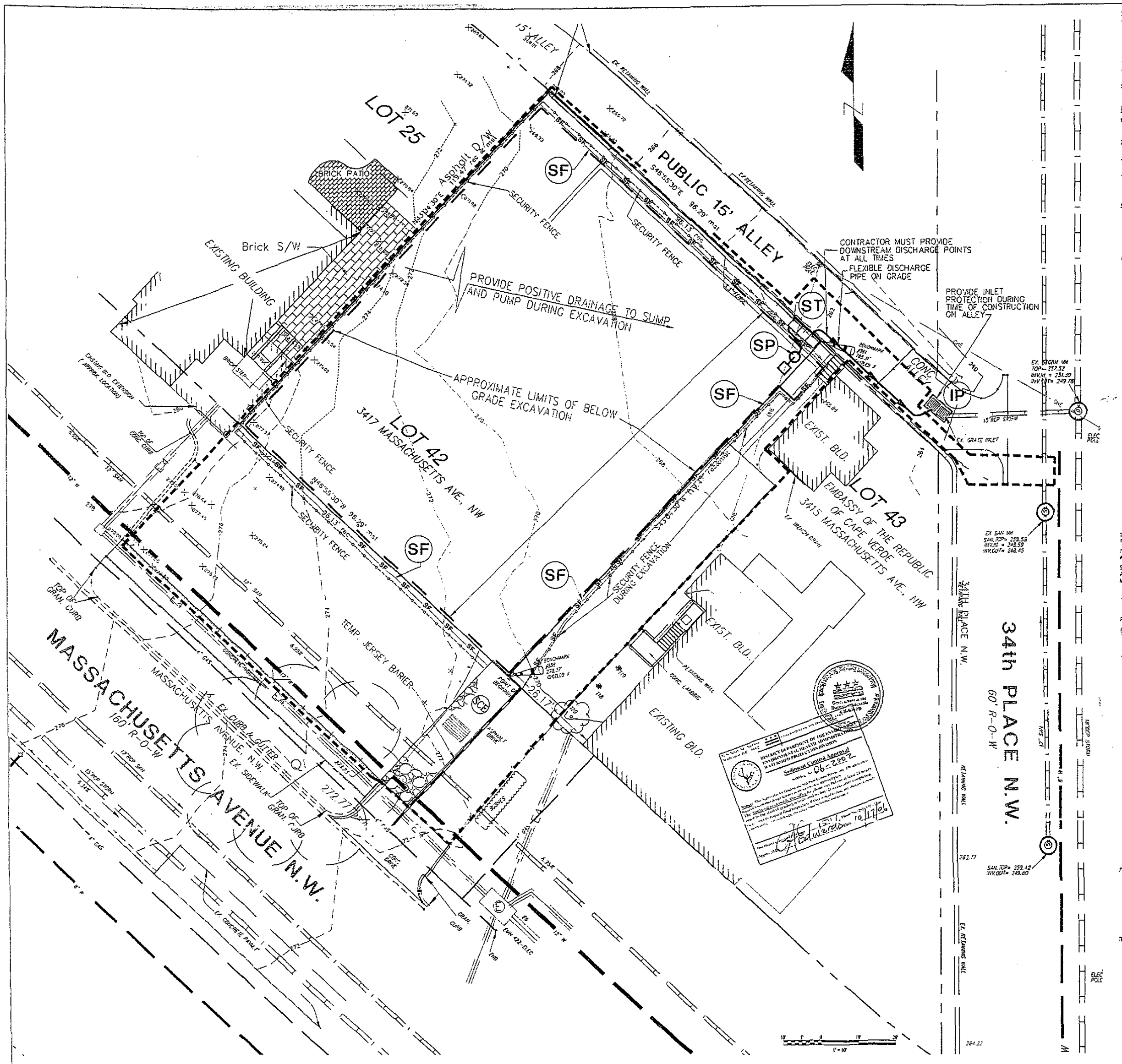
CONSTRUCTION
DOCUMENTS

SCALE: AS SHOWN

SHEET NO
C-06

REVISION:

CIVIL


LOT 25
15' ALLEY
PUBLIC 15' ALLEY
BRICK PATIO
Asphalt D/W
Brick S/W
EXISTING BUILDING
SECURITY FENCE
PROVIDE POSITIVE DRAINAGE TO SUMP AND PUMP DURING EXCAVATION
APPROXIMATE LIMITS OF BELOW GRADE EXCAVATION
LOT 42
3417 MASSACHUSETTS AVE. NW
S48°55'30"E 96.29' msl
N48°55'30"W 95.29' msl
SF
ST
SP
IP
SCE
CONTRACTOR MUST PROVIDE DOWNSTREAM DISCHARGE POINTS AT ALL TIMES
FLEXIBLE DISCHARGE PIPE ON GRADE
PROVIDE INLET PROTECTION DURING TIME OF CONSTRUCTION ON ALLEY
CONC. ALLEY
EXIST. BLD.
LOT 43
EMBASSY OF THE REPUBLIC OF CAPE VERDE
3415 MASSACHUSETTS AVE. NW
SECURITY FENCE DURING EXCAVATION
TEMP JERSEY BARIER
EXIST. BLD.
EXISTING BLD.
MASSACHUSETTS AVENUE N.W.
160' R-O-W
MASSACHUSETTS AVENUE, N.W.
EX. CURB & GUTTER
EX. SIDEWALK
TOP OF GRAN. CURB
34th PLACE N.W.
60' R-O-W
34TH PLACE N.W.
EX. STORM MH
EX. SAN MH
ELEC POLE
EX. RETAINING WALL
06-2202

THIS SHEET IS TO BE USED FOR SEDIMENTATION AND EROSION CONTROL PURPOSES ONLY !!!

CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED CONSTRUCTION ENTRANCE, WASH RACK, INLET PROTECTION, SILT FENCE, AS INDICATED ON SHEET C.07. SEE SHEET C.08 FOR SEDIMENTATION AND EROSION CONTROL DETAILS.
2. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
3. REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN
4. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
5. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SALUTATION, SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
   - A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE;
   - B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
   - C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
   - A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES;
   - B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
   - C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

NOTE:

CONTRACTOR TO REFER JOP TRAFIC CONTROL CONSULTANT,
12903 THRESA DR, SILVER SPRING MD 20904
FOR TRAFIC CONTROL DESIGN AND SPECIFICATION

CONSTRUCTION DATES:

- EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

SEDIMENTATION EROSION CONTROL NOTE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
2. PROVIDE SILT FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN UNLESS OTHERWISE APPROVED BY THE INSPECTOR
3. PROVIDE CONSTRUCTION FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
4. CONTRACTOR TO PROVIDE ON SITE APPROVED STAMPED AND SIGNED SEDIMENTATION AND EROSION CONTROL DRAWINGS BY DEPARTMENT OF HEALTH, WATERSHED PROTECTION DIVISION.
5. THE APPLICANT MUST NOTIFY THE DEPARTMENT OF HEALTH BY PHONE (202-535-2240) AT LEAST 24 HOURS PRIOR TO THE START OF GRADING ACTIVITY AND WITHIN (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF HEALTH MUST BE NOTIFIED IMMEDIATELY

SEDIMENTATION AND EROSION CONTROL NARRATIVE:

THE PROPOSED DEVELOPMENT IS LOCATED AT 3417 MASSACHUSSETS AVE. NW, WASHINGTON DC. THE EXISTING SITE COMPRISES AN EXISTING ASPHALT DRIVE AND GRASS AREA.

THE DEVELOPMENT PLAN FOR THIS PROPERTY INCLUDES A NEW 3-STORY BUILDING WITH BASEMENT AND 2-LEVEL BELOW GRADE PARKING.

SITE IMPROVEMENTS INCLUDE NEW DOMESTIC AND FIRE SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE, SANITARY AND STORM SEWER AND NEW STORM FILTER FOR STORMWATER MANAGEMENT. NEW DRIVEWAY ENTRANCE, AND CONCRETE SIDEWALK

VOLUME BELOW GRADE EXCAVATION

SITE AREA : 10680 SQUARE FEET OR 0.245 ACRE

FROM FIRST FLOOR TO P1 LEVEL:20 FT

$$\frac{\text{(AREA) } 10680. \times \text{(DEPTH) } 20\text{ FT}}{27} = 7911 \text{ CUY}\pm$$

TOTAL VOLUME OF FILL = 0.00 CUY

CONSTRUCTION DATES:

- EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

TOTAL DISTURBED AREA

AREA = 10680 SF = 0.24 ACRES

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.

SEDIMENT CONTROL APPROVAL:

PLAN NUMBER

THIS APPROVAL IS FOR GRADING AND SEDIMENT CONTROL ONLY PERMITEE/ CONTRACTOR IS REQUIRED TO CONSTRUCT DESIGN FEATURE SHOWN HEREON. HE SHALL NOTIFY THIS OFFICE AT NUMBER LISTED BELOW AT LEAST 24 HOURS BEFORE START OF GRADING ACTIVITY, AND WITHIN TWO WEEKS AFTER COMPLETION OF PROJECT FOR FINAL INSPECTION

DATE

EROSION AND SEDIMENT
CONTROL BRANCH

FOR FURTHER INFORMATION, PLEASE CALL:
GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH ADMINISTRATION
WATERSHED PROTECTION DIVISION
51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, D.C. 20002
FAX NO. (202) 535-1364
TEL NO (202) 535-2240

LEGEND:

TEMP CONSTRUCTION ENTRANCE	SCE
WASH RACK	
SILT FENCE	—SF——SF— SF
INLET PROTECTION	⌐ ¬ IP
SEDIMENT TANK	▭▭▭ ST
SUMP PUMP	O-□ SP
APPROXIMATE LIMIT OF BELOW GRADE EXCAVATION FOR BUILDING STRUCTURE	— · — · —
APPROXIMATE LIMIT OF DISTURBANCE	- - - - -
TEMP JERSEY BARRIER	▬▬▬
SECURITY FENCE	—o—o—o—

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Architecture
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www.ekcorp.co

SEAL
10-10-06

KEYPLAN

REVISIONS

No.	Description	Dat
1	ADDENDUM 1	09-31-

PROJECT NO.
HOK: 04-14021-00

DATE:
06-3

SHEET TITLE

SEDMENTATION AND
EROSION CONTROL
PLAN

CONSTRUCTION
DOCUMENTS

SCALE: 1"-10'-0"

SHEET NO.
C-07

REV

HELLMUTH, OBATA & KASSABAUM, PC ©

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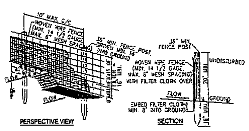

10' MAX. C/C
WOVEN WIRE FENCE (MIN. 14 1/2 GAUGE MAX. 6" MESH SPACING)
36" MIN. FENCE POST DRIVEN MIN. 16" INTO GROUND
FLOW
FLOW
PERSPECTIVE VIEW
36" MIN. FENCE POST
WOVEN WIRE FENCE (MIN. 14 1/2 GAGE, MAX. 6" MESH SPACING) WITH FILTER CLOTH OVER
UNDISTURBED
20" MIN.
FLOW
GROUND
EMBED FILTER CLOTH MIN. 8" INTO GROUND
16" MIN.
SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

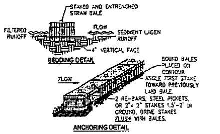
POSTS:
STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE:
WOVEN WIRE, 14 1/2 GAGE 6" MAX. MESH OPENING

FILTER CLOTH:
FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT:
GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

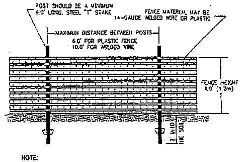
SILT FENCE
(NOT TO SCALE)


STAKED AND ENTRENCHED STRAW BALE
FILTERED RUNOFF
FLOW
SEDIMENT LADEN RUNOFF
4" VERTICAL FACE
BEDDING DETAIL
BOUND BALES PLACED ON CONTOUR
FLOW
ANGLE FIRST STAKE TOWARD PREVIOUSLY LAID BALE.
2 RE-BARS, STEEL PICKETS, OR 2"x 2" STAKES 1.5'-2' IN GROUND. DRIVE STAKES FLUSH WITH BALES.
ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS:

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DIKE
(NOT TO SCALE)


POST SHOULD BE A MINIMUM 6.0' LONG, STEEL "T" STAKE
FENCE MATERIAL MAY BE 14-GAUGE WELDED WIRE OR PLASTIC
MAXIMUM DISTANCE BETWEEN POSTS
6.0' FOR PLASTIC FENCE
10.0' FOR WELDED WIRE
FENCE HEIGHT 4.0' (1.2m)
2' INTO THE SOIL

NOTE:
TREE PROTECTION FENCING MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCE INSTALLATION DETAIL
(NOT TO SCALE)

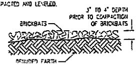
STANDARDS AND SPECIFICATIONS FOR BRICKBAT GROUND COVER

DEFINITION
TEMPORARY GROUND COVER CONSISTING OF BROKEN BRICK (1/2 PIECE OR SMALLER) PLACED OVER DENUDED EARTH.

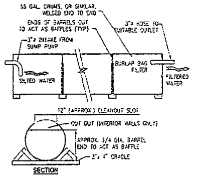
PURPOSE
BRICKBATS PROVIDE A TEMPORARY GROUND COVER OVER DENUDED URBAN EARTH TO PREVENT THE TRANSPORTATION OF SEDIMENT FROM THE SITE.

CONDITIONS WHEN PRACTICE APPLIES
BRICKBATS MAY BE USED ON ANY SITE IN NEED OF TEMPORARY GROUND COVER.

DESIGN CRITERIA
THE BRICKBATS SHALL BE PLACED TO A DEPTH OF 3 INCHES TO 4 INCHES COVERING THE DENUDED EARTH ON THE SITE, THEN COMPACTED AND LEVELED.



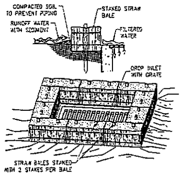
BRICKBAT DETAIL
(NOT TO SCALE)


55 GAL. DRUMS, OR SIMILAR, WELDED END TO END
ENDS OF BARRELS CUT TO ACT AS BAFFLES (TYP)
3"ø HOSE TO SUITABLE OUTLET
3"ø INTAKE FROM SUMP PUMP
BURLAP BAG FILTER
SILTED WATER
FILTERED WATER
12" (APPROX.) CLEANOUT SLOT
CUT OUT (INTERIOR WALLS ONLY)
APPROX. 3/4 DIA. BARREL END TO ACT AS BAFFLE
2"x 4" CRADLE
SECTION

PORTABLE SEDIMENT TANK
(NOT TO SCALE)

CONSTRUCTION NOTES:

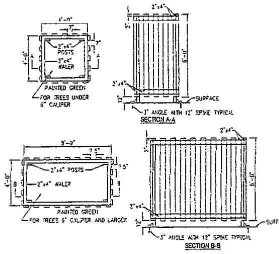
1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY, ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS FROM PAGE 20.01 ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.
4. TANK STORAGE VOLUME REQUIRED = 16 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. MULTIPLE TANKS MAY BE USED


COMPACTED SOIL TO PREVENT PIPING
STAKED STRAW BALE
RUNOFF WATER WITH SEDIMENT
FILTERED WATER
DROP INLET WITH GRATE
STRAW BALES STAKED WITH 2 STAKES PER BALE

SPECIFIC APPLICATION:

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

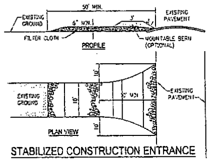
STRAW BALE DROP INLET SEDIMENT FILTER
(NOT TO SCALE)



TYPICAL TREE PROTECTION FENCING
(NOT TO SCALE)

EROSION AND SEDIMENT CONTROL MEASURES AND SEQUENCE:

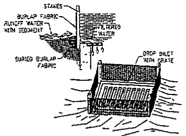
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING.
2. PROVIDE TEMPORARY STONE CONSTRUCTION ENTRANCE AND WASH RACK WHERE SHOWN, PROVIDE WATER SOURCE AND HOSE TO CLEAN ALL EQUIPMENT LEAVING SITE.
3. INSTALL STRAW BAIL DIKE AS SHOWN ON SEDIMENT AND EROSION CONTROL PLAN.
4. NO DISTURBED AREA WILL BE DENUDED FOR MORE THAN 7 CALENDAR DAYS. INSTALL THE NECESSARY TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ADEQUATE EROSION AND SEDIMENT CONTROL.
5. ALL CONSTRUCTION TO BE INSPECTED DAILY BY THE CONTRACTOR, AND ANY DAMAGED SILTATION OR EROSION CONTROL DEVICES OR MEASURES WILL BE REPAIRED AT THE CLOSE OF THE DAY.
6. ALL STRAW BALE DIKES TO BE MAINTAINED IN WORKING CONDITION
7. STABILIZED CONSTRUCTION ENTRANCES TO BE PERIODICALLY SUPPLEMENTED WITH ADDITIONAL STONE AS NEEDED.
8. CONTROLS WILL BE REMOVED AFTER THEIR CONTRIBUTING BASINS HAVE BEEN PERMANENTLY STABILIZED.



STABILIZED CONSTRUCTION ENTRANCE
(NOT TO SCALE)

CONSTRUCTION RAMP SPECIFICATION:

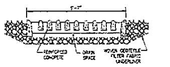
1. STONE SIZE- USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
2. LENGTH- AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS- NOT LESS THEN SIX (6) INCHES
4. WIDTH- TEN (10) FOOT MINIMUM, BUT NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH- WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN



SPECIFIC APPLICATION:

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

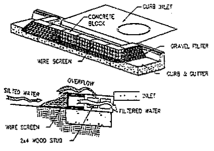
BURLAP DROP INLET SEDIMENT FILTER
(NOT TO SCALE)



WASH RACK DETAIL
(NOT TO SCALE)

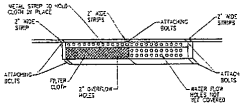
SILTATION EROSION CONTROL NOTES:

1. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA. IF AN ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED
2. ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
3. ALLEY AND / OR STREET SHALL BE SWEPT CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.
4. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED DAILY BY THE CONTRACTOR. ANY DAMAGED DEVICE OR MEASURE WILL BE REPAIRED OR REPLACED BY THE CLOSE OF DAY OR AS DIRECTED BY THE ARCHITECT.
5. ALL VEHICLES LEAVING THE SITE SHALL EXIT THROUGH THE CONSTRUCTION ENTRANCE ONLY AND SHALL BE WASHED DOWN TO REMOVE MUD FROM TIRES BEFORE ENTERING THE STREET. CONSTRUCTION ENTRANCE TO BE MAINTAINED IN GOOD WORKING CONDITIONS.
6. ALL CATCH BASINS AND AREA DRAINS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.
7. IF ANY CATCH BASIN OR DRAIN BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS IMMEDIATE CLEANING.
8. ALL DISTURBED AREAS WITHIN THE LIMIT OF DISTURBANCE BOUNDARY NOT SHOWN TO BE PAVED SHALL BE SEEDED OR SODDED AS PER DC SPECIFICATIONS WITHIN SEVEN DAYS OF DISTURBANCE.
9. WHEN SEDIMENT TRAP/SEDIMENT TANK HAS REACHED 57% CAPACITY, CLEAN OUT OF SAME IS REQUIRED
10. ANY STOCKPILING, REGARDLESS OF LOCATION ON SITE SHALL BE STABILIZED WITHIN 14 DAYS AND COVERED WITH PLASTIC OR CANVAS, AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
11. AFTER RAZE OR DEMOS, THERE IS NEED FOR GROUND COVER TO PREVENT EROSION AND SEDIMENT RUNOFF FROM OCCURRING, SUCH AS SEED, SOD, PAVING, BRICKBRACK OR MULCH, ETC.
12. AT THE COMPLETION OF CONSTRUCTION PROJECT AND AFTER THE D.C. EROSION AND SEDIMENT CONTROL INSPECTOR APPROVAL, ALL TEMPORARY SILTATION, SEDIMENTATION AND EROSION CONTROL MEASURES AND DEVICES SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE PERMANENTLY STABILIZED.



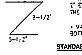
CURB INLET SEDIMENT FILTER
(NOT TO SCALE)

1. TWO CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING.
2. A 2 INCH BY 4 INCH STUD SHALL BE CUT AND PLACED THROUGH THE OUTER HOLES OF EACH SPACER BLOCK TO HELP KEEP THE FRONT BLOCKS IN PLACE.
3. CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ACROSS THE FRONT OF THE INLET AND ABUTTING THE SPACER BLOCKS AS ILLUSTRATED.
4. WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. CHICKEN WIRE OR HARDWARE CLOTH WITH 1/2-INCH OPENINGS SHALL BE USED.
5. TWO TO THREE INCH STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BARRIER AS SHOWN
6. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.



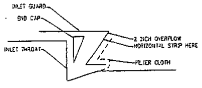
- AT EACH INTERSECTION OF INLET PROTECTOR OVERLAP A MINIMUM OF 2"

STANDARD INLET GUARD ATTACHMENT METHOD



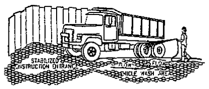
- THE TOP MEASUREMENT OF 7-1/2" IS SET TO PROVIDE A 2" EXTENSION FOR OVERFLOW WHILE AVOIDING BLOCKAGE OF THE MANHOLE COVER.
- MAKE A WATERTIGHT CONNECTION ALONG THE SIDES AND BOTTOM OF THE INLET GUARD WITH THE STREET AND CURB

STANDARD INLET GUARD DIMENSIONS

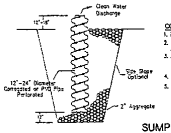


STANDARD INLET GUARD CROSS SECTION

GRADE INLET GUARD
(NOT TO SCALE)



VEHICLE WASH DETAIL
(NOT TO SCALE)



CONSTRUCTION SPECIFICATIONS:

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12"-24" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12"-18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTER CLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTERCLOTH. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

SUMP PIT
(NOT TO SCALE)

SOKA GAKKAI
BUDDHIST
CULTURE
CENTER
3417 Massachusetts Ave, NW
Washington, D.C.

CLIENT
Soka Gakkai International - USA

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Canal House, 3223 Grace Street, N.W.
Washington, DC 20007
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Fax: (202) 339 8800
www.hok.com

CIVIL
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Reston, Virginia 20191
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(F) 703.264.0595
www.ekcorp.com

SEAL
703458
10-10-06

KEYPLAN

REVISIONS

No.	Description	Date
1	ADDENDUM 1	09-01-06

PROJECT NO.: HOK: 04-14021-00
DATE: 06-30-06

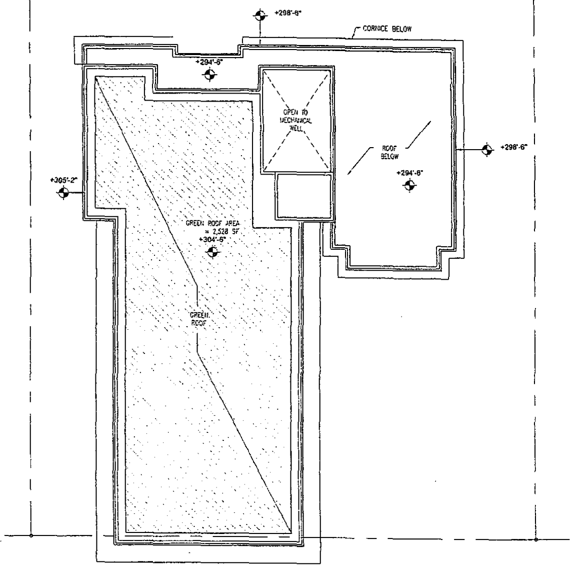
SHEET TITLE
SEDIMENTATION AND EROSION CONTROL DETAILS

CONSTRUCTION DOCUMENTS

SCALE: NOT TO SCALE

SHEET NO.: C-08
REVISION:

CIVIL



GREEN ROOF PLAN

SCALE 1/8" = 1'

	AREA (SF)	AREA (AC)
TOTAL AREA	11503.80	0.26
TREATED AREAS	2528	0.06
UNTREATED AREAS	8975.80	0.20

STORMWATER MANAGEMENT NARRATIVE:

THE STORMWATER MANAGEMENT FACILITY CONSISTS OF A ROOF TOP VEGETATIVE GARDEN WITH THE EXCEPTION OF MECHANICAL AREA, ELEVATOR ROOF TOP AND THE LOW-ROOF OVER THE SMALL SANCTUARY WING.

SITE DATA: (WATER QUALITY DESIGN)

1) SITE DESCRIPTION: NEW CULTURE CENTER
2) OUTFALL DESCRIPTION: EXISTING 18" RCP STORM SEWER ON 34TH PLACE NW
3) EXISTING STORM SEWER INVERT: 252.04

STORM DATA:

STORM FREQUENCY = 15 YEARS
STORM DURATION = 24 HOURS
TIME OF CONCENTRATION = 5 MINS
STORM INTENSITY = 7.56 IN/HR
RAINFALL DEPTH = d = 0.63 INCH
RUNOFF COEF.(POST- DEVELOPMENT) C = 0.58

x PRE-DEVELOPED RUNOFF (15 YEAR STORM)

T_C = 5 MINUTES, I_{15} = 7.56 IN/HR, C=0.35

$Q_{pre} = CI_{pre}A = 0.35 \times 7.56 \times \underline{0.26} = \underline{0.69}$ cfs

x POST-DEVELOPED RUNOFF (15 YEAR STORM)

T_C = 5 MINUTES, I_{15} = 7.56 IN/HR, C=0.58

$Q_{post} = CI_{post}A = 0.90 \times 7.56 \times \underline{0.26} = \underline{1.14}$ cfs

x VOLUME OF STORAGE TREATED: V_w

where:
V_w = WATER QUALITY VOLUME TO BE TREATED
Q_i = FIRST FLUSH RUNOFFS (0.3" FOR ROOFTOPS)
I_A = TREATED = 0.11
F = INFILTRATION RATE OF SAND AND SOIL MEDIA (1.18 FT/HR)
T = TIME DURATION (1 HR)
A_f = FILTER AREA USED IN DC DOH EMPHERICAL EQUATION FOR V

a. $V_w = Q_i \times I_A - F \times T \times A$ . . . . (EQ. #1)
$A_f = 50 + (A_{imp} - 0.1 \text{ ACRES}) \times 167$ SQ. FT/ACRE
$A_f = 50 + (\underline{0.26} - 0.1) \times 167 = \underline{76.72}$ SQ. FT.
$V_w = (0.3/12 \text{ FT} \times \underline{11503.80} \text{ FT}) - 1.18 \text{ FT/HR} \times 1 \text{ HR} \times 76.72$ FT.
$V_w = \underline{197.06}$ CF

** FOR QUALITY CONTROL PURPOSES, THE SFWO WILL REQUIRE A VOLUME OF 197.00 CF.

x DETERMINE STORAGE VOLUME OF GREEN ROOF: V_{gr}

$V_{gr} = A_{gr} \times h \times v$

where:
A_{gr} = AREA OF GREEN ROOF
A_{gr} = 2528 SF

v = void ratio
v = 40% (PER MANUFACTURER)

h = THICKNESS OF GREEN ROOF (GROWTH MEDIA TO DRAIN MEDIA)
h = 4" (0.33')

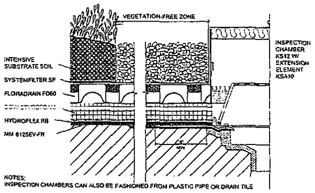
COMPUTE: V_{gr}

$V_{gr} = \underline{2528}$ SQ.FT $\times 0.33 \times 0.4$
$V_{gr} = \underline{330.79}$ CF

COMPARE: V_{gr} TO V_w

$V_{gr} = 333.69 > V_w = 197.06$ CF

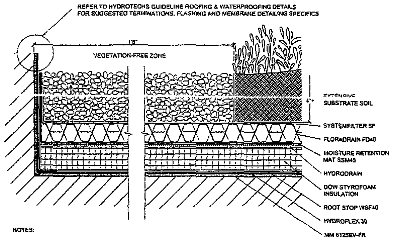
THEREFORE, REQUIRED STORAGE IS SATISFIED BY THE GREEN ROOF.



NOTES:
INSPECTION CHAMBERS CAN ALSO BE FASHIONED FROM PLASTIC PIPE OR DRAIN TILE

TYPICAL DRAIN

NOT TO SCALE



REFER TO HYDROTECHS GUIDELINE ROOFING & WATERPROOFING DETAILS FOR SUGGESTED TERMINATIONS, FLASHING AND MEMBRANE DETAILING SPECIFICS
1'6"
VEGETATION-FREE ZONE
4"
EXTENSIVE SUBSTRATE SOIL
SYSTEMFILTER SF
FLORADRAIN FD40
MOISTURE RETENTION MAT SSM45
HYDRODRAIN
DOW STYROFOAM INSULATION
ROOT STOP WSF40
HYDROFLEX 30
MM 6125EV-FR

NOTES:

WSF40 IS LOOSE LAID OVER THE HYDROFLEX 30 AND LAPPED A MINIMUM OF 5"

IF INSULATION IS NOT INSTALLED, THE HYDRODRAIN AIR LAYER MAY BE OMITTED. HYDRODRAIN IS REQUIRED WHENEVER SSM45 IS TO BE INSTALLED OVER THE INSULATION

THE VEGETATION-FREE ZONE MAY BE COMPOSED OF TYPICAL ROOF BALLAST OR CONCRETE PAVERS. V-F ZONES ARE REQUIRED AT ALL ROOF PERIMETERS AND ALL PENETRATIONS (PIPES, SKYLIGHTS, ETC.)

TYP. EXTENSIVE GARDEN ROOF DETAIL

NOT TO SCALE

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

WITHIN 21 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE STORMWATER DISCHARGE FACILITY, PLEASE SEND THIS PAGE TO THE WATERSHED PROTECTION DIVISION- DEPARTMENT OF HEALTH.

1. STORMWATER DISCHARGE FACILITY INFORMATION:

SOURCE NAME: ______
SOURCE LOCATION: STREET: ______
CITY: ______
DCRA PERMIT NO.: ______
DATE ISSUED: ______

2. AS-BUILT CERTIFICATION:

I HEREBY CERTIFY THAT STORMWATER DISCHARGE FACILITY HAS BEEN BUILT SUBSTANTIALLY IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THAT SUBSTANTIAL DEVIATIONS (NOTED BELOW) WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS OF SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5 WHEN PROPERLY MAINTAINED AND OPERATED. THESE DETERMINATIONS HAVE BEEN BASED UPON ON-SITE OBSERVATION OF CONSTRUCTION, SCHEDULED AND CONDUCTED BY ME OR BY A PROJECT REPRESENTATIVE UNDER MY DIRECT SUPERVISION. I HAVE ENCLOSED ONE SET OF AS-BUILT ENGINEERING DRAWINGS.

______ SIGNATURE OF ENGINEER
______ NAME (PLEASE TYPE) D.C. REG. NO.

AFFIX SEAL:

COMPANY NAME: ______
COMPANY ADDRESS: ______
DATE: ______ TELEPHONE: ______

SUBSTANTIAL DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS (ATTACH ADDITIONAL SHEETS IF REQUIRED)

______
______
______
______

STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

THE UNDERSIGNED AGREES TO MAINTAIN AND OPERATE THE DISCHARGE FACILITIES IN SUCH A MANNER AS TO COMPLY WITH THE PROVISIONS OF SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5. RESPONSIBILITY FOR MAINTENANCE AND OPERATION MAY BE TRANSFERRED TO ANOTHER ENTITY UPON WRITTEN NOTICE TO THE WATERSHED PROTECTION DIVISION OF THE DEPARTMENT OF HEALTH FROM THE UNDERSIGNED AND THE ENTITY ASSUMING RESPONSIBILITY, CERTIFYING THAT THE TRANSFER OF RESPONSIBILITY FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5 HAS BEEN ACCEPTED. FOR MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 509 THROUGH 518 HAS BEEN ACCEPTED.

William Aiken
SIGNATURE OF PERSON RESPONSIBLE FOR MAINTENANCE
(IT MAY BE THE APPLICANT)
William Aiken, OFFICE DIRECTOR
NAME AND TITLE (PLEASE TYPE):
2233 WISCONSIN AV. #306
ADDRESS:
WASHINGTON DC 20007
DATE: 10/9/06 PHONE NO. 202-338-1750

STATEMENT BY PROFESSIONAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA

THIS IS TO CERTIFY THAT THE ENGINEERING FEATURES OF THIS STORMWATER DISCHARGE FACILITY HAVE BEEN DESIGNED/EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH MODERN ENGINEERING PRINCIPLES APPLICABLE TO THE TREATMENT AND DISPOSAL OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE SPECIFICATION REQUIRED UNDER SECTION 526 THROUGH 535 OF DCMR-21, CHAPTER 5. IT IS ALSO STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR MAINTENANCE AND OPERATION OF THE STORMWATER DISCHARGE FACILITY.

______ SIGNATURE OF THE ENGINEER

AFFIX SEAL:
JEFF ABRAVESH
900498
10/9/06

Jeff Abravesh, P.E.
NAME AND TITLE (PLEASE TYPE):
11860 Sunrise Valley Drive, Suite 200
ADDRESS:
Reston, VA 20191
DATE: ______ PHONE NO. (703) 391-7600

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Fax: (202) 339 8800
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Surveying
Architectu
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(T) 703 39
(F) 703 26
www.ekco

SEAL
JEFF ABRAVESH
900498
10/5/06

KEYPLAN

REVISIONS

No.	Description
1	ADDENDUM 1
2	D.O.H. - COMMENTS

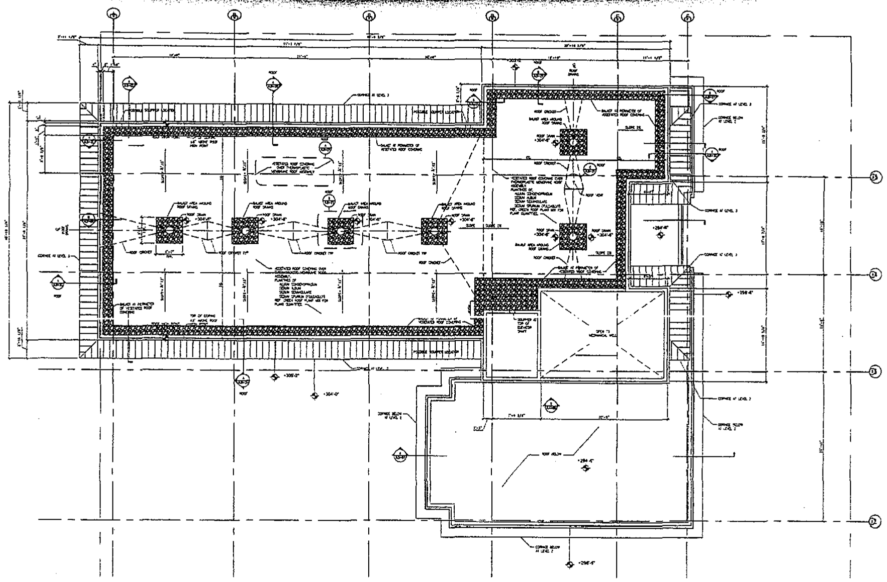
PROJECT NO. DATE
HOK: 04-14021-00

SHEET TITLE
STORM WATE
MANAGEMENT F
(GREEN ROC
CONSTRUCTI
DOCUMENT

SCALE:

SHEET NO.
C-09

HELLMUTH, OBATA & KASSABAUM
CIVIL



DISTRICT DEPARTMENT OF THE ENVIRONMENT
ENVIRONMENTAL HEALTH ADMINISTRATION
WATERSHED PROTECTION DIVISION
Stormwater Management Approval
SWM No. 06-2002
Approved By: Edwards 10/17/06

PLANTING NOTES

1. INSPECT SITE PRIOR TO BEGINNING OF PLANTING OPERATIONS AND NOTIFY CONTRACTING OFFICER'S REPRESENTATIVE (C.O.R.) OF ANY DISCREPANCIES OR CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.

2. COORDINATE PLANTING INSTALLATION WITH C.O.R. AND OTHER TRADES TO PREVENT CONFLICT WITH REPRESENTATIVE (C.O.R.) OF ANY DISCREPANCIES OR CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.

3. COORDINATE PLANTING INSTALLATION WITH C.O.R. AND OTHER TRADES TO PREVENT CONFLICT WITH ONGOING CONSTRUCTION ACTIVITIES.

4. IF ANY DISCREPANCY OCCURS BETWEEN THE QUANTITIES CALLED FOR ON THE PLANT LIST AND THOSE INDICATED ON THE PLAN, THE GREATER QUANTITY WILL GOVERN.

5. IF SUBSTITUTIONS ARE NECESSARY (DUE TO LACK OF AVAILABILITY OF SPECIFIED PLANT) CONTRACTOR MUST REQUEST WRITTEN APPROVAL FROM C.O.R. PRIOR TO PURCHASE OF MATERIAL.

6. PLANT PLUGS SHOULD BE PLANTED TO THEIR CROWN LEAVING NO ROOT MASS EXPOSED TO THE AIR.

7. PLANTING AREA SHOULD BE WATERED THOROUGHLY UNTIL THE PLANT MEDIA IS SATURATED.

8. SUPPLEMENTAL IRRIGATION IN ADDITION TO NATURAL PRECIPITATION WILL BE NECESSARY AT A RATE OF ONCE A WEEK IN THE FIRST GROWING SEASON OR UNTIL PLANTS BECOME ESTABLISHED.

9. OCCASIONAL WEEDING OF THE MEDIA WILL BE NECESSARY UNTIL THE PLANTS BECOME ESTABLISHED.

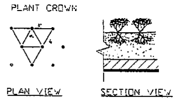
SOIL NOTES

1. USE MINERAL SOIL WITH 20 PERCENT ORGANIC (MAXIMUM). USE CRUSHED EXPANDED SHALE THAT IS SIFTED THROUGH A 3/8" SIEVE.

GREEN ROOF PLANT MIX

	BOTANICAL NAME	COMMON NAME	QTY.
PLANTS			
	ALLIUM SCHOENOPRASUM	CHIVE	1175
	SEDUM ALBUM	WHITE STONECROP	1175
	SEDUM SEXANGULARE	TASTELESS STONECROP	1175
	SEDUM SPURIUM 'FULDAGLUT'	FIREGLOW STONECROP	1175

NOTE:
NO ADJACENT PLUGS SHALL BE THE SAME SPECIES



PLANT SPACING TO BE 2 PLANTS PER SQUARE FOOT

PLANTING SOIL TO BE 4' MINIMUM AND 5' MAXIMUM. SEE DETAIL 'A' THIS SHEET

ROOF SYSTEM - SEE ARCHITECTURE SHEETS

B PLANTING DETAILS

NTS

VEGETATED ROOF COVERINGS MAINTENANCE

A. Begin maintenance immediately after each area is planted and continue until acceptable vegetated roof covering is established, but for not less than the following periods:
1. Plugged Vegetated Roof Coverings: One year from date of Substantial Completion
B. Maintain and establish vegetated roof covering by watering, fertilizing, weeding, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas to produce a uniform vegetated roof covering.
1. Anchor as required to prevent displacement.
C. Watering: Provide and maintain temporary hoses, and lawn-watering equipment to convey water from sources to vegetated roof coverings.
1. Schedule watering as recommended by Installer

DRAINAGE LAYER

A. Drainage/Water Retention Panel: Three-dimensional, nonbiodegradable, molded polyethylene panel with retention cups on the top side, drainage channels on top and bottom, and holes in the tops of the domes for ventilation and evaporation.
1. Panel Height: 1 inch.
2. Water Retention: Approximately 0.07 gal/sq. ft.
3 Minimum Compressive Strength: 3,440 lbf/sq. ft. when tested according to ASTM D 1621
4. Minimum In-Plane Flow Rate: 39 gpm/ft. of unit width at hydraulic gradient of 1.0 when tested according to ASTM D 4716.
B. Filter Fabric: Nonwoven needle-punched geotextile, manufactured for subsurface drainage, made from non-rotting polypropylene fibers; with elongation greater than 50 percent; complying with the following properties:
1 Flow Rate: 150 gal/min/sq. ft.
2. Tensile Strength: 80 lbs per ASTM D 4632.
3. Mullen Burst: 150 lbs/sq. in. per ASTM D 4632
4. Apparent Opening: No. 70 sieve, maximum, per AASHTO M 288

PLANTS

A. General: Furnish viable plants, strongly rooted, and capable of vigorous growth and development when planted; of the following species:
1. Sedum Species: As indicated on Drawings.
2. Non-Sedum Species: As indicated on Drawings
B. Plant Suppliers: Acceptable plant suppliers include, but are not limited to, the following:
1. Emery Knoll Farms, Inc. 3410 Ady Road, Street, MD 21154; Tel: 410-452-5880.

EXECUTION

EXAMINATION

A. Examine areas to receive vegetated roof coverings for compliance with requirements and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.
1. Vegetated roof coverings work shall not begin until final roof testing and inspection is completed and accepted. Refer to Division 7 Section "Thermoplastic Membrane Roofing."

PREPARATION

A. The surface of the roof system shall be cleaned by sweeping and washing with water.
B. Protect roofing system from damage caused by vegetated roof coverings installation operations

DRAINAGE LAYER INSTALLATION

A. Drainage/Water Retention Panels: Install drainage/water retention panels over the roof system in accordance with manufacturer?s written recommendations. Butt adjacent panels together; do not overlap.
B. Filter Fabric: Install filter fabric over drainage/water retention panels, overlapping edges and ends at least 6 inches. Turn up filter fabric all vertical, roofed, and flashed surfaces 6 inches minimum above the anticipated growth media level. Trim excess down to level of the growth media after growth media installation.

SATISFACTORY VEGETATED ROOF COVERINGS

A Satisfactory Vegetated Roof Coverings: At end of maintenance period, a healthy, uniform, vegetated roof covering has been established, free of weeds and other undesirable vegetation with coverage exceeding 80 percent over any 400 sq. ft.
B. Reestablish vegetated roof coverings that do not comply with requirements and continue maintenance until vegetated roof coverings are satisfactory.

CLEANUP AND PROTECTION

A. Promptly remove debris created by vegetated roof coverings work
B. Erect barricades and warning signs as required to protect newly planted areas from traffic. Maintain barricades throughout maintenance period and remove after vegetated roof coverings are established.

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Washington, D.C.
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Soka Gakkai International - USA

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Planning, S
Surveying
Architectur
11860 Sun
Suite 200
Reston, Vir
(T) 703.39
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SEAL
10-10-06

KEYPLAN

REVISIONS

No.	Description
1	ADDENDUM 1
2	D.O.H. - COMMENTS

PROJECT NO. HOK: 04-14021-00
DATE:

SHEET TITLE
STORM WATER MANAGEMENT PL
(GREEN ROOF)
CONSTRUCTION DOCUMENTS

SCALE: 1:80'-0"

SHEET NO
C-09 A

HELLMUTH, OBATA & KASSABAUM, PC.
CIVIL

DEPARTMENT OF WATER SERVICES

1959

FIRE FLOW TEST

APPLICANT LOCATION 3415 Massachusetts Ave NW
JOB NO.
REASON FOR APPLICATION Maximum
APPLICATION RECEIVED 8/16/2006
PRESSURE ZONE 3W RESERVOIR ELEVATION 418 ft

DISCHARGE HYDRANT 1
Location NE Corner 35th & Fulton Street NW
Coeff. 0.8
Outlet Dia. 2.5 in
Velocity Pressure 20 psi Rate 667 gpm

DISCHARGE HYDRANT 2
Location Northside Massachusetts between 35th Street & 35th Place NW
Coeff. 0.8
Outlet Dia. 2.5
Velocity Pressure 20 psi Rate 667 gpm

DISCHARGE HYDRANT 3
Location
Coeff. 0.8
Outlet Dia. in
Velocity Pressure 0 psi Rate 0 gpm

TOTAL FLOW 1334 gpm

RESIDUAL HYDRANT
Location NE Corner 34th Street & Massachusetts Ave NW
Residual FH Elevation 246.87 ft
Static Pressure 73 psi
Residual Pressure 50 psi
Pressure Loss 23 psi

THEORETICAL HYDRANT PRESSURE 74.5 psi FLOW AVAILABLE AT 20psi RESIDUAL 2094 gpm

Flow at 20psi is an APPROXIMATION only. Distribution system capacity in the future depends on: Demands/ Pump Operation / Valve Positions / Water Main Deterioration / Water Main Breaks / Power Outages. WASA does not guarantee the availability of the above calculated flow at 20psi

Test Performed By Ca.Brown/D.Holloway/d.Holloway
Date of Test 6/27/2006 Time 2:00pm
Test Checked By J Duncan
TEST APPROVED BY

Report Printed: Wednesday, September 14, 20 Page 1 of 1

DCWASA
Backflow Prevention Form

Information Requirement For Approval of Backflow Preventers for Water Services

Project Location:

A. Street Address: 3415 MASSACHUSETTS AVE WASHINGTON, DC 20007 Quadrant: NW
B. Lot(s): 42 Square: 1937
C. Number of water services: 2 Size of water service(s): 1-3" DOM 1-4" FIRE
D. Closest cross street to the project: 35TH ST NW & MASSACHUSETTS AVE NW
E. Backflow Preventer Information:

	Domestic Service	Fire Service
Backflow Preventer Type	Double Check	Double Check RPZ
Manufacturer	WATTS	WATTS
Size	3"	4"
Model	709	709
ASSE #	1015	1013

Design Firm: AKF ENGRS
Address: 1655 N. FORT MYERS DRIVE
City: ARLINGTON State: VA Zip Code: 22209
Tel: (703) 351-7686 Fax: (703) 351-0359 Date Requested:
Design Engineer (print) DONALD KEITH Signature:

Tel: ( ) Fax: ( ) Date:
Notes:
WASA Approval: (Name) signature:

DC Water and Sewer Authority
Documents and Permits
5000 Overlook Avenue, SW • Washington, DC 20032
BACKFLOW PREVENTOR (BFP) APPROVAL
PH (202) 787-2002 FAX (202) 787-2453

	YES	NO	TYPE
BFP	☑	☐	RPBA/DCVA
APPROVED	☐	☐	
PRELIMINARY	☐	☐	
FINAL	☐	☐	

NOTE:
1. OWNER MUST INFORM DCWASA, WATER QUALITY BRANCH (WQB) WHEN INSTALLATION IS COMPLETE FOR FINAL APPROVAL.
2. FORWARD TEST RESULTS ANNUALLY TO DCWASA, WQB

COMMENTS:
APPROVAL:
DATE: 11/17/2006

Meter Sizing Worksheet (Page 1 of 2)

Project Name: Buddhist Cultural Center WASA Project No.:
Designer's Name / Telephone: D Keith Designer's Signature / Date:
WASA Reviewer / Telephone: WASA Signature / Date:
Owner's Name: Owner's Telephone:
Address:
Lot: Square:
Residual System Pressure:

Type of Occupancy:
☐ Apartment ☐ Motel ☐ Condominium ☐ Hotel ☐ Shopping Center ☐ Restaurant
☐ Hospital ☐ Public Building ☐ Public School ☐ Residential House

Meter Model and Size: Meter Manufacturer / Serial #:

Total Fixture Value	=	92
Water Flow Demand from Figure 4.1 (gpm)	=	47 GPM
Pressure Factor from Table 4.4	X	1.22
Product of Water Flow Demand multiplied by Pressure Factor	=	57.34
Add Irrigation No. of Squares (100 SF) ____ X 1.16 or 0.40 [1]	=	
Hose Bibbs 5 X 2.0	=	10
Subtotal of Domestic and Irrigation Demands (gpm)		57.3
Pressure Factor from Table 4.4	X	1.34
Product of domestic and irrigation Flow Demand multiplied by Pressure Factor	=	76.38
Total Fixed Demands. (if any (gpm))	=	0
Total Domestic/Mechanical/Irrigation Demands (gpm)	=	
Fire Flow Demand as per NFPA Requirements	=	
Total Domestic/ Mechanical/Irrigation and Fire Flow Demands (gpm)	=	

[1] Spray Systems use 1.16 and Rotary Systems use 0.40

Notes:
1) Above Table adapted from American Water Works Association M22.
2) Designer is responsible to determine required fire flows and pressures of the occupancy in addition to the proper sizing of meters.

Inside meter installation:
☒ No
☐ Yes. Designer has confirmed that the sewer drainage system has the capacity to handle test flows.

Designer Signature / Date

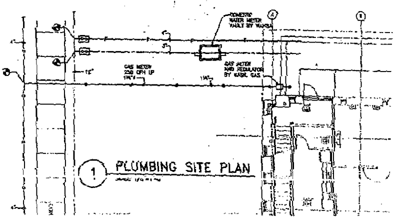
September 5, 2003
DCWASA Meter Selection/Configuration Guidelines

Meter Sizing Worksheet (Page 2 of 2)

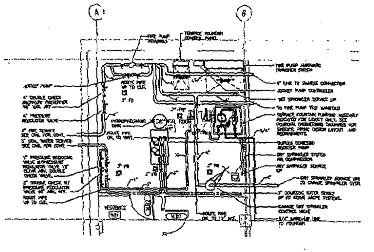
Fixture Type		Fixture Value Based on 35 psi at Meter Outlet		Number of Fixtures		Total Fixture Value
Bathtub (private)		1.4	x		=	
Bathtub (public)		4.0	x		=	
Bathroom Group (flush tank)		3.6	x		=	
Bathroom Group (flush valve)		8.0	x		=	
Bidet		2.0	x		=	
Dental Lavatory		3.0	x		=	
Drinking Fountain (public)		.25	x	1	=	.25
Kitchen Sink	Private	1.4	x		=	
	Hotel, Restaurant	4.0	x		=	
Lavatory	Private	0.7	x		=	
	Public	2.0	x	6	=	12
Laundry Tray	Private	1.4	x		=	
Shower Head Private		1.4	x		=	
Shower Head Public		4.0	x		=	
Service Sink		3.0	x	1	=	3
			x		=	
Urinal	1" valve	10.0	x		=	
	¾" valve	5.0	x	3	=	15
	flush tank	2.0	x		=	
Wash Sink (each set of faucets)		4.0	x		=	
Water Closet	Flush Valve	5.0	x	8	=	40
	Tank Type	2.5	x	1	=	2.5
Dishwasher	½ - In. Connection	1.4	x	1	=	1.4
			x		=	
Washing Machine (8lbs.) Private		1.4	x		=	
	(8 lbs.) Public	3.0	x		=	
	(15 lbs.) Public	4.0	x		=	
Hose Connections		2.0	x	5	=	10
			x		=	
Hose (50-Ft. length – wash down) ½ - in.		6	x		=	
	⅝ - in. Connection	9	x		=	
	¾ - In. Connection	12	x		=	
		Total Fixture Value			=	91.85

Notes:
1) Above Table adapted from ICC 2000 Plumbing Code
2) Designer is responsible to determine required fire flows and pressures of the occupancy in addition to the proper sizing of meters.

Designer's Name / Telephone: DONALD KEITH Designer Signature / Date: 10/30/2006


DOMESTIC WATER METER VAULT BY WASA
GAS METER 250 CFH UP
GAS METER AND REGULATOR BY WASH. GAS
4"
3"
12"
A
1

1 PLUMBING SITE PLAN


A
B
FIRE PUMP
TERRACE FOUNTAIN CONTROL PANEL
JOCKEY PUMP
4" DOUBLE CHECK BACKFLOW PREVENTER
4" PRESSURE REGULATOR VALVE
4" FIRE SERVICE
3" DOM. WATER SERVICE
HYDROPNEUMATIC TANK
MECHANICAL ROOM
FIRE PUMP AUTOMATIC TRANSFER SWITCH
4" LINE TO SIAMESE CONNECTION
JOCKEY PUMP CONTROLLER
WET SPRINKLER SERVICE UP
TO FIRE PUMP TEST MANIFOLD
TERRACE FOUNTAIN PUMPING ASSEMBLY
DUPLEX DOMESTIC BOOSTER PUMP
DRY SPRINKLER SYSTEM AIR COMPRESSOR
DRY SPRINKLER SERVICE UP
3" DOMESTIC WATER SERVICE
GARAGE DRY SPRINKLER CONTROL VALVE
3/4" MAKE-UP LINE TO FOUNTAIN
VESTIBULE
3" FD

1 PLUMBING MEZZANINE LEVEL PUMP ROOM
SCALE: 3/16" = 1'-0"

FLOW DATA

DOMESTIC WATER	102 gpm (0.227 cfs)
FIRE WATER	500 gpm (1.114 cfs)
SANITARY SEWAGE	135 gpm (0.301 cfs)
STORM DRAIN	4715 gpm (10.501 cfs)

Sanitary Fixtures Count and GPM Load

Fixtures	Numbers of Fixtures
Water Closets	8
Urinals	2
Lavatories	6
Service Sinks	1
Water Coolers	1
Total	18

GPM 18 X 7.5 = 135 GPM at Peak Load

Designer:

William F.
Skoda LLC

Mr. Brian McDermott, PE
District of Columbia
Water and Sewer Authority
Department of Engineering and Technical Services
5000 Overlook Avenue, SW
Washington, DC 20032

November 15, 2006

RE: SGI-USA, 3417 Massachusetts Ave
Interior Domestic and Fire Service Metering

Dear Mr. McDermott:

On behalf of and as an agent for SGI-USA, owner of the development project at 3417 Massachusetts Ave, I am hereby requesting permission from DC/WASA, under section 307.2 of Title 21 DCMR, to locate the water meter inside the building.

This request became necessary after a site review determined it is not feasible to install the interior domestic water meter and backflow preventer and metering device on the exterior of the building due to its size and the available space.

We would like to have a dedicated meter for this fire line and understand the conditions required by DC/WASA for inside metering, and we intend to comply with the following:

1. Provide access to the meter for maintenance and other routing work during normal business hours.
2. Install a floor drain located 5' from the meter for testing and leakage. The floor drain will be large enough to handle the flow rate from the DC/WASA periodic testing of the meter.
3. The layout of the piping at the inlet and meter discharge will adhere to DC/WASA Standard Details and will provide for adequate conditions for metering that will avoid turbulence or other interference.
4. The location of the meter will have a conduit to send and receive AMR signals from the meter. This will be accomplished by hard wiring the meter to the outside to a location where an MTU device will be mounted free of obstruction.
5. Unobstructed access will be provided via an 36" door for a replacement meter, large parts and/or test equipment at the location of the meter from the outside of the building.
6. The detector check/fire service meter will be accordance with DC/WASA Standards and will have a one-inch backflow preventer as required. It must meet ASSE #1047 or #1048.
7. The detector check/fire service meter will meet the same conditions as required for the inside location of the domestic water service.
8. Sufficient heat in the meter room to prevent freezing during severe winter months.

I trust that we have indicated all that is required in order to receive permission from DC/WASA to place our meter inside the building. Upon acceptance of our request, we will provide the necessary revised engineering drawings required to illustrate the placement of the water lines and metering for DC/WASA approval.

Thank you for your assistance in helping to resolve the matter and if you need any further information please contact me at the above number.

Sincerely,

William F. Skoda

William F. Skoda, PE
William F. Skoda, LLC
Agent for SGI-USA

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www.ekcorp.com

SEAL
JEFF ABRAMESH
900458
3/19/07

KEY PLAN

REVISIONS

No.	Description	Date
1	ADDENDUM 1	08-01-06

PROJECT NO. HOK 04-14021-00
DATE: 06-30-06

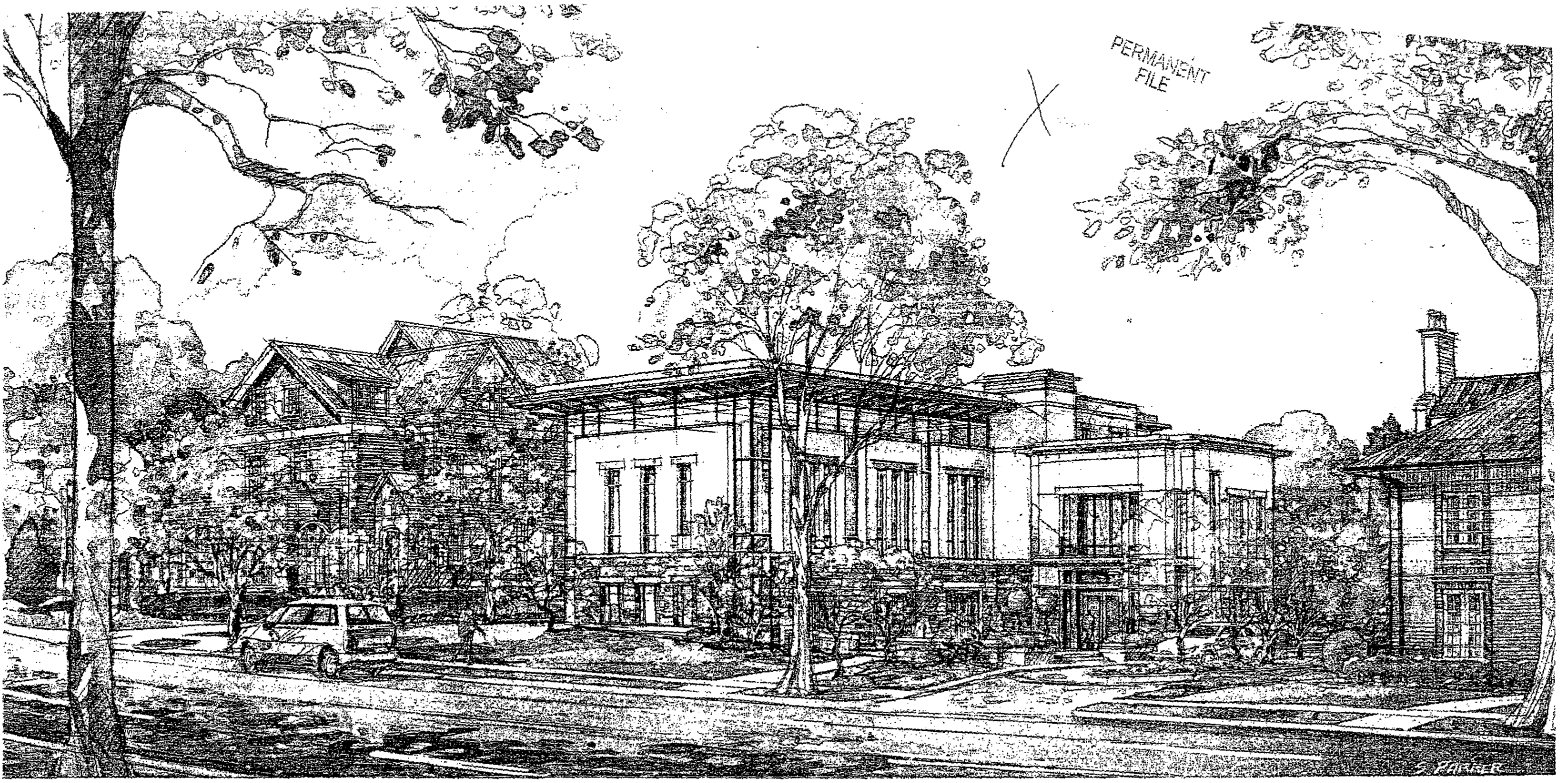
SHEET TITLE
DC/WASA METER PACKAGE
CONSTRUCTION DOCUMENTS

SCALE: N.T.S.
SHEET NO. C-10
REVISION:

CIVIL

BOARD OF ZONING ADJUSTMENT
District of Columbia
CASE NO. 17663
EXHIBIT NO. 21

PERMANENT FILE



SOKA GAKKAI INTERNATIONAL–USA
BUDDHIST CULTURE CENTER

CONSTRUCTION DOCUMENTS
JUNE 30, 2006

OFFICIAL

ARCHITECT
Hellmuth, Obata + Kassabaum, P.C.
Canal House
3223 Grace Street, NW
Washington, DC 20007
202-339-8700
202-339-8800 Fax

STRUCTURAL ENGINEER
Cagley and Associates
6141 Executive Boulevard
Rockville, MD 20852
301-881-9050
301-881-1125 Fax

JAN 22 2007

DCRA/OFFICE OF THE ZONING ADMINISTRATOR/COMPLIES WITH REQUIREMENTS OF DC ZONING REGULATIONS (11DCMR)
Jan 22 3/28/07

PERMANENT FILE

PERMANENT FILE

EXHIBIT
K

SHEET NO.	SHEET TITLE
GENERAL	
G.1-00	*COVER SHEET*
G.1-01	DRAWING INDEX
G.1-02	DRAWING INDEX
G.1-03	CONSULTANTS
CIVIL	
C.00	GENERAL NOTES AND VICINITY MAP
C.01	EXISTING CONDITION PLAN
C.02	DEMOLITION PLAN
C.03	SITE AND UTILITY PLAN
C.04	*SITE GRADING PLAN*
C.05	SITE DETAILS
C.06	UTILITY PROFILES
C.07	SEDIMENTATION AND EROSION CONTROL PLAN
C.08	SEDIMENTATION AND EROSION CONTROL DETAILS
C.09	STORM WATER MANAGEMENT PLAN (GREEN ROOF)
C.10	SITE EASEMENT EXHIBIT
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L.1-02	*SITE GRADING PLAN*
L.1-03	LANDSCAPE MATERIALS PLAN
L.1-04	LANDSCAPE LAYOUT PLAN
L.2-01	SITE DETAILS
L.2-02	SITE DETAILS
L.2-03	SITE DETAILS
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F2.00	SUCTION SCHEMATIC
F3.00	*ELECTRICAL SCHEMATIC*
F3.10	ELECTRICAL SCHEMATIC
F4.00	EQUIPMENT DETAILS
F4.01	DETAILS GENERAL NOTES
F4.10	GENERAL NOTES
F4.20	*THRUST BLOCK DETAILS*
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A.1-01	SYMBOLS & REFERENCES
A.1-02	BUILDING CODE SUMMARY
A.1-03	EGRESS DIAGRAM
A.1-10	PARTITION SCHEDULE & NOTES
A.1-11	DOOR SCHEDULE, LOUVER & AIR GRILLE SCHEDULE
A.1-12	DOOR JAMB DETAILS
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A.1-14	DOOR SILL DETAILS
A.1-15	DOOR SILL DETAILS
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A.1-18	TOILET ACCESSORY SCHEDULE
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A.2-00M	FLOOR PLANS: MEZZANINE LEVEL
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A.2-02	FLOOR PLANS. LEVEL 2
A.2-03	FLOOR PLANS: PENTHOUSE & LOW-ROOF
A.2-04	FLOOR PLANS: HIGH-ROOF
A.2-10	*FINISH FLOOR PLANS: PARKING LEVEL*
A.2-10M	FINISH FLOOR PLANS: MEZZANINE LEVEL
A.2-11	FINISH FLOOR PLANS: LEVEL 1
A.2-12	FINISH FLOOR PLANS: LEVEL 2
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A.3-00M	REFLECTED CEILING PLANS: MEZZANINE LEVEL
A.3-01	REFLECTED CEILING PLANS: LEVEL 1
A.3-02	REFLECTED CEILING PLANS: LEVEL 2
A.3-03	REFLECTED CEILING PLANS: LG SANCTUARY & MECH. PENTHOUSE
A.4-00	EXTERIOR ELEVATIONS
A.4-01	EXTERIOR ELEVATIONS
A.4-02	COMPOSITE EXTERIOR ELEVATIONS
A.5-00	BUILDING SECTIONS
A.5-01	BUILDING SECTIONS
A.5-02	BUILDING SECTIONS

SHEET NO.	SHEET TITLE
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A.6-01	ENLARGED PLANS STAIR # 2 & #3
A.6-02	SECTIONS STAIR 1
A.6-03	SECTIONS STAIR 2
A.6-03A	SECTIONS STAIR 3
A.6-04	STAIR 1 DETAILS
A.6-05	STAIR 2 & 3 DETAILS
A.7-00	INTERIOR ELEVATIONS
A.7-01	INTERIOR ELEVATIONS
A.8-00	*WALL SECTIONS*
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A.8-02	WALL SECTIONS
A.8-03	WALL SECTIONS
A.8-04	WALL SECTIONS
A.8-10	WALL SECTION DETAILS
A.9-00	EXTERIOR PLAN DETAILS
A.9-01	EXTERIOR PLAN DETAILS
A.9-02	EXTERIOR PLAN DETAILS
A.9-03	EXTERIOR PLAN DETAILS
A.9-04	EXTERIOR PLAN DETAILS
A.9-05	EXTERIOR PLAN DETAILS
A.9-06	EXTERIOR PLAN DETAILS
A.9-07	EXTERIOR PLAN DETAILS
A.9-08	EXTERIOR PLAN DETAILS
A.9-20	ROOF DETAILS
A.9-21	CANOPY DETAILS
A.9-22	NICHE DETAILS
A.9-30	*INTERIOR DETAILS*
A.9-31	INTERIOR DETAILS
A.9-32	NOT USED
A.9-33	NOT USED
A.9-34	CEILING DETAILS
A.9-40	*BUTSUDAN PLANS, ELEVATIONS & DETAILS*
GRAPHICS	
~~GR-1.00~~	~~INTERIOR SIGNAGE~~

A.9-50 Elevator Plans + Details
A.9-51 Sections

OFFICIAL

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SEAL

6-30-06

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
DRAWING INDEX

CONSTRUCTION
DOCUMENTS

SCALE: N/A

SHEET NO. G.1-01
REVISION:

ARCHITECTURE

SHEET NO.	SHEET TITLE
STRUCTURE	
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S.2-00	FLOOR PLANS: FOUNDATION/PARKING LEVEL
S.2-00M	FLOOR PLANS: MEZZANINE LEVEL FRAMING PLAN
S.2-01	FLOOR PLANS: LEVEL 1 FRAMING PLAN
S.2-02	FLOOR PLANS: LEVEL 2 FRAMING PLAN
S.2-03	FLOOR PLANS: PENTHOUSE AND LOW ROOF FRAMING PLAN
S.2-04	FLOOR PLANS: MECHANICAL WELL ROOF & HIGH ROOF FRAMING
S.3-01	FOUNDATION SECTIONS AND DETAILS
S.3-02	FOUNDATION SECTIONS AND DETAILS
S.3-03	FOUNDATION SECTIONS AND DETAILS
S.4-01	FRAMING SECTIONS AND DETAILS
S.4-02	FRAMING SECTIONS AND DETAILS
S.4-03	FRAMING SECTIONS AND DETAILS
S.4-05	FRAMING SECTIONS AND DETAILS
S.4-06	FRAMING SECTIONS AND DETAILS
S.5-01	CONCRETE AND STEEL COLUMN SCHEDULES AND DETAILS
S.6-01	CONCRETE BEAM SCHEDULE AND DETAILS
S.7-01	SHEARWALL ELEVATIONS AND DETAILS
S.7-02	BRACED FRAME ELEVATIONS & DETAILS
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M.2-01	HVAC FIRST LEVEL DUCTWORK PLAN
M.2-02	HVAC SECOND LEVEL DUCTWORK PLAN
M.2-03	HVAC THIRD LEVEL DUCTWORK PLAN
M.3-00	HVAC PARTIAL PLANS
M.4-00	HVAC AIRFLOW RISER DIAGRAM
M.5-00	HVAC SCHEDULES
M.6-00	HVAC DETAILS
M.6-01	HVAC DETAILS
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E.2-00M	ELECTRICAL MEZZANINE LEVEL LIGHTING PLAN
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E.2-02	ELECTRICAL SECOND LEVEL LIGHTING PLAN
E.2-03	ELECTRICAL THRIRD LEVEL LIGHTING PLAN
E.3-00	ELECTRICAL PARKING LEVEL POWER PLAN
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E.3-01	ELECTRICAL FIRST LEVEL POWER PLAN
E.3-02	ELECTRICAL SECOND LEVEL POWER PLAN
E.3-03	ELECTRICAL THIRD LEVEL POWER PLAN
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E.4-02	ELECTRICAL SECOND LEVEL FIRE ALARM PLAN
E.4-03	ELECTRICAL THIRD LEVEL FIRE ALARM PLAN
E.5-00	ELECTRICAL FIRE ALARM RISER DIAGRAM
E.5-01	ELECTRICAL RISER DIAGRAM
E.6-00	ELECTRICAL PANEL SCHEDULES
E.6-01	ELECTRICAL SCHEDULE & NOTES

SHEET NO.	SHEET TITLE
PLUMBING	
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P.2-00	PLUMBING PARKING LEVEL PLAN
P.2-00M	PLUMBING MEZZANINE PUMP ROOM PLAN
P.2-01	PLUMBING FIRST LEVEL PLAN
P.2-01S	PLUMBING SITE PLAN
P.2-02	PLUMBING SECOND LEVEL PLAN
P.2-03	PLUMBING THIRD LEVEL PLAN
P.2-04	PLUMBING ROOF LEVEL PLAN
P.3-00	NOT USED
P.4-00	SANITARY DOMESTIC WATER, GAS & STORM RISER DIAGRAM
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P.5-01	PLUMBING DETAILS
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FP.1-00	FIRE PROTECTION RISER DIAGRAM
SECURITY	
SC.1-00	SECURITY NOTES SYMBOLS AND ABBREVIATIONS
SC.1-01	SECURITY FLOOR PLANS
SC.1-02	SECURITY RISER DETAILS

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ROBERT E.
6-30-06

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REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
DRAWING INDEX

CONSTRUCTION
DOCUMENTS

SCALE: N/A

SHEET NO. G.1-02
REVISION:

ARCHITECTURE

SHEET NO.	SHEET TITLE
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S.2-00M	FLOOR PLANS: MEZZANINE LEVEL FRAMING PLAN
S.2-01	FLOOR PLANS: LEVEL 1 FRAMING PLAN
S.2-02	FLOOR PLANS: LEVEL 2 FRAMING PLAN
S.2-03	FLOOR PLANS: PENTHOUSE AND LOW ROOF FRAMING PLAN
S.2-04	FLOOR PLANS. MECHANICAL WELL ROOF & HIGH ROOF FRAMING
S.3-01	FOUNDATION SECTIONS AND DETAILS
S.3-02	FOUNDATION SECTIONS AND DETAILS
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S.4-06	FRAMING SECTIONS AND DETAILS
S.5-01	CONCRETE AND STEEL COLUMN SCHEDULES AND DETAILS
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E.3-03	ELECTRICAL THIRD LEVEL POWER PLAN
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E.4-00M	ELECTRICAL MEZZANINE FIRE ALARM PLAN
E.4-01	ELECTRICAL FIRST LEVEL FIRE ALARM PLAN
E.4-02	ELECTRICAL SECOND LEVEL FIRE ALARM PLAN
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E.6-00	ELECTRICAL PANEL SCHEDULES
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SHEET NO.	SHEET TITLE
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P.2-00	PLUMBING PARKING LEVEL PLAN
P.2-00M	PLUMBING MEZZANINE PUMP ROOM PLAN
P.2-01	PLUMBING FIRST LEVEL PLAN
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6-30-06

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REVISIONS

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PROJECT NO. HOK: 04-14021-00
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SHEET TITLE
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DOCUMENTS

SCALE: N/A

SHEET NO. G.1-02
REVISION:

ARCHITECTURE

LIST OF CONSULTANTS

HELMUTH, OBATA + KASSABAUM, P.C. WASHINGTON, DC	ARCHITECTURE, INTERIORS, PLANNING & GRAPHICS
WILLIAM F. SKODA LLC *ROCKVILLE, MD*	PROJECT MANAGEMENT
STRUCTURE TONE ARLINGTON, VA	GENERAL CONTRACTOR
CAGLEY & ASSOCIATES ROCKVILLE, MD	STRUCTURAL ENGINEER
AKF ENGINEERS ARLINGTON, VA	MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION ENGINEERS
ECS MID-ATLANTIC, LLC CHANTILLY, VA	GEOTECHNICAL ENGINEER
EDWARDS AND KELCEY, INC RESTON, VA	CIVIL ENGINEER
ROLF JENSEN & ASSOCIATES, INC FAIRFAX, VA	CODE & LIFE SAFETY
SYSTEM PLANNING CORPORATION ARLINGTON, VA	SECURITY DESIGNER
ERBSCHLOE CONSULTING SERVICES, INC. *HAYMARKET, VA*	DOOR HARDWARE
ATLANTIC CONSULTING INC *ANNAPOLIS, MD*	VERTICAL TRANSPORTATION
SHEN MILSOM WILKE ARLINGTON, VA	ACOUSTICS
CLAUDE R. ENGLE CHEVY CHASE, MD	LIGHTING

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G.1-03

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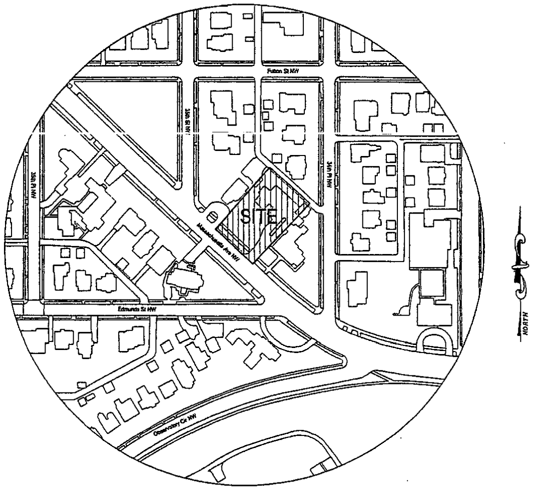
ARCHITECTURE



VICINITY MAP
(NO SCALE)

GENERAL NOTES:

1. EXISTING CONDITIONS WERE REPRODUCED FROM SURVEYS PREPARED BY WMC. DATED AUGUST 2004 AND FROM UTILITY RECORDS.
2. WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATION AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE ARCHITECT.
3. VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE MR. TED DYSON, DC DPW AND "MISS UTILITY" (1800-257-7777) 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATIONS. HAND DIG TEST PITS AT ALL UTILITY CROSSINGS AND DETERMINE EXACT CLEARANCE OF ALL PROPOSED INSTALLATIONS WELL IN ADVANCE OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS WITH PLAN ELEVATIONS.
4. WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE D.C. DPW STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PLUMBING CODE.
5. ELEVATIONS SHOWN HEREON ARE BASED ON D.C. DATUM.
6. DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT; CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE UNLESS OTHERWISE NOTED.
7. FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
8. OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INFORMATION CONCERNING FOUND UTILITY, NOT SHOWN ON PLANS.
9. EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. CONTRACTOR TO COORDINATE EXTENT WITH ARCHITECT.
10. TEST PITS ARE REQUIRED AT ALL LOCATION(S) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATION(S) TO IDENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
11. IF A 1' MINIMUM VERTICAL CLEARANCE CAN NOT BE MAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
12. TRANSITION CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND ON GRADE OR AS DIRECTED BY ENGINEER.
13. ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
14. ALL ON-SITE WATER LINES TO HAVE A MINIMUM COVER OF 4'-0". WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER DPW STANDARDS.
15. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
16. REMOVE FRAMES AND COVERS OF SEWER MANHOLE/INLETS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO GRADE.
17. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA. IF AN ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED. SEE DRAWINGS C.07 AND C.08 FOR SEDIMENTATION AND EROSION CONTROL PLAN AND DETAILS.
18. ALL CURB SPOT SHOTS ARE TOP OF CURB, UNLESS OTHERWISE NOTED.
19. NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. CHUCK WHITLEY AT WASHINGTON GAS AT 703-750-4205.
20. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES.
21. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND PROPOSED FACILITIES.
22. ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS - WATER AND SEWER UTILITY AUTHORITY.
23. CONTRACTOR TO BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING AND UNDERPINNING, DESIGNED BY STRUCTURAL ENGINEER LICENSED IN DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK, CURB AND GUTTER TO REMAIN OR TO REPLACE SIDEWALK, CURB AND GUTTER DAMAGED DURING CONSTRUCTION.
25. EXISTING FULL DEPTH PAVEMENT SECTION, CURB AND GUTTER TO BE REMOVED AND REPLACED TO EXTENT NECESSARY TO FACILITATE CONSTRUCTION OF NEW UTILITIES. MATERIALS TO COMPLY WITH DC/DPW STANDARDS AND SPECIFICATIONS.

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06/29/06

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PROJECT NO.
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SHEET TITLE
GENEARL NOTES
AND
VICINITY MAP
CONSTRUCTION
DOCUMENTS

SCALE:

SHEET NO.
C-00

REVISION:

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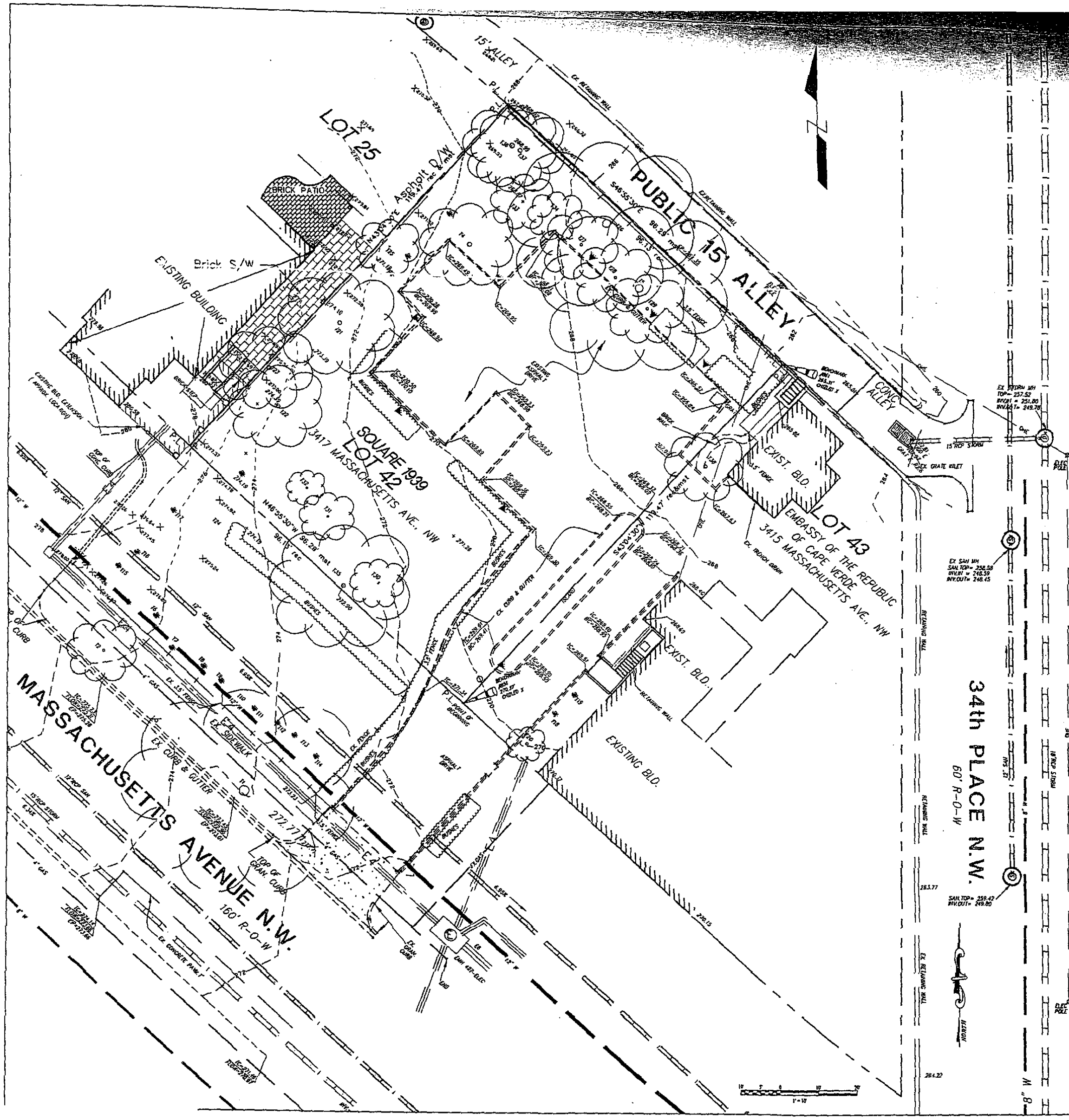

[illegible]
[illegible] FACILITATE CONSTRUCTION [illegible]
PER UTILITY SURVEYOR'S STANDARDS [illegible]
DEMOLITION.

CONTACT "MISS UTILITY" AT 1 800 257-7777 48 HOURS PRIOR TO CONSTRUCTION.

CONTACT DEPARTMENT OF PUBLIC WORKS–PUBLIC SPACE MAINTENANCE ADMINISTRATION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (202)645-6030 OR (202)645-6031..

ALL PROPOSED WORK TO BE PERFORMED UNDER THE INSPECTION OF THE DEPARTMENT OF PUBLIC WORKS AND DCWASA. USE MANHOLE ENTRY SEALS WHERE REQUIRED.

- NOTE PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAIN CONTINUED SERVICE DURING CONSTRUCTION. COORDINATE WITH RESPECTIVE UTILITY COMPANIES AND ENGINEER SHOULD RELOCATION OF SERVICE BE REQUIRED.

LEGEND

ELECTRIC LINE & STRUCTURE	
TELEPHONE LINE & STRUCTURE	T
LIGHT POLE, STREET LIGHT	EX LP
SANITARY LINE & MH	EX 12" SAN SEW S
STORM INLET	
STORM LINE	EX 28"-18" STM.
GAS LINE & VALVE	EX GAS 6"G
WATER LINE & MH	W 6"W
WATER STRUCTURES	E WV E FH
TEST PIT REQUIRED	
PARKING METER	P
CHAIN LINK FENCE	—×—×—×—
CONTOURS	302
SPOT ELEVATIONS	× 303.25
FACE OF BUILDING	DOOR
CONCRETE SIDEWALK	
CURB & GUTTER	
HEADER CURB	
EDGE OF PAVEMENT	EX EP
PAVING AREA	▨
PAVEMENT MARKING	⇨
RETAINING WALL	

ABBREVIATIONS

APX	APPROXIMATE	JB	JERSEY BARRIER
ASP	BITUMINOUS CONCRETE	LOD	LIMIT OF DISTURBANCE
BC	BOTTOM OF CURB	LP	LIGHT POLE
BLDG.	BUILDING	MH	MANHOLE (STRUCTURE)
BRK	BRICK	O/H	OVERHEAD
BS	BOTTOM OF STEP	OHE	OVER HEAD ELECTRIC
CC	CONCRETE CURB	PCC	PORTLAND CONCRETE CEMENT
CG	CURB & GUTTER	P.L.	PROPERTY LINE
CJ	CONTRACTION JOINT	PM	PARKING METER
CL	CENTER LINE	PROP	PROPOSED
CLF	CHAIN LINK FENCE	RAD	RADIUS
CO	CLEAN OUT	SAN	SANITARY
CONC.	CONCRETE	SEW	SEWER
COMB	COMBINE(D)	STD	STANDARD
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
DOM	DOMESTIC	STY	STORY (FLOOR)
DWG	DRAWING(S)	S/W	SIDEWALK
E	ELECTRICAL	T	TELEPHONE
ELEV	ELEVATION	TYP	TYPICAL
ELEC	ELECTRIC(AL)	UGE	UNDERGROUND ELECTRIC UTILITY
ENT	ENTRANCE	UGG	UNDERGROUND GAS UTILITY
EX	EXISTING	UGSM	UNDERGROUND SEWER MAIN
FH	FIRE HYDRANT	UGW	UNDERGROUND WATER UTILITY
FT	FEET/FOOT	W	WATER
G	GAS	WL	WATER LINE
GRD	GUARD	WM	WATER MAIN
GRNT	GRANITE	WV	WATER VALVE
		XHCI	EXTRA HEAVY CAST IRON PIPE

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06/29/06

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-3

SHEET TITLE
EXISTING CONDITIC
PLAN

CONSTRUCTION
DOCUMENTS

SCALE: 1" = 10'
SHEET NO. C-01

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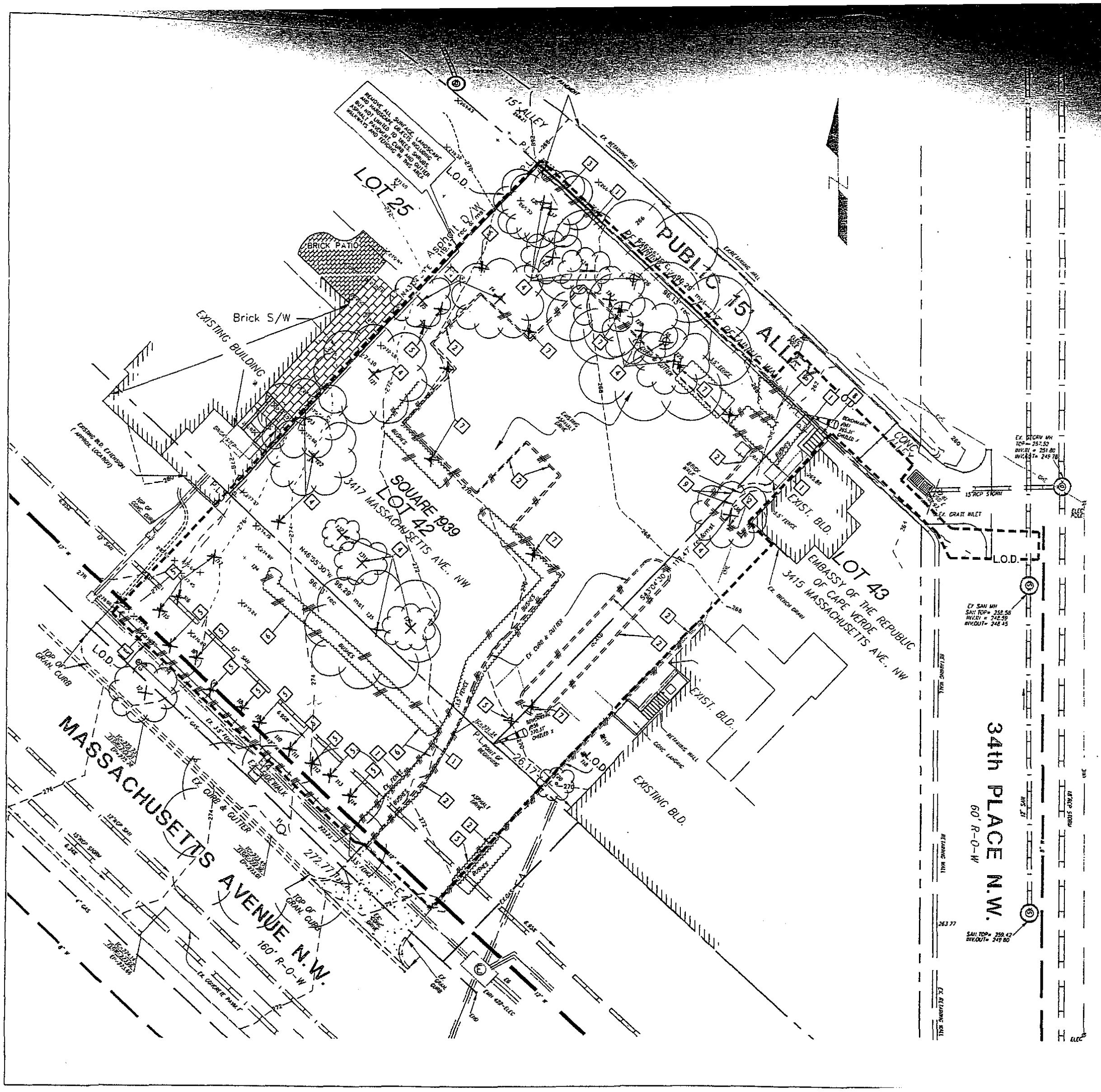

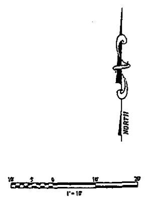

DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN HEREON WERE TAKEN FROM FROM A SURVEY PREPARED BY WILES MENSCH CORPORATION DATED JULY 22, 2005.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
3. CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS TO A LEGAL DISPOSAL SITE.
4. REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE REMOVAL OF ALL SURFACE, BASE AND SUBBASE MATERIALS.
5. REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF ALL FOUNDATIONS AND BELOW GRADE STRUCTURES.
6. UTILITY COMPANIES WERE NOT CONTACTED FOR LOCATION OF THEIR UNDERGROUND UTILITIES. UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITIES. FOR MARKING LOCATIONS OF EXISTING UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-257-7777, 48-HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.
7. THE CONTRACTOR MUST HAND-DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF DEMOLITION WORK. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL UTILITY INFORMATION, OMISSIONS AND ADDITIONS FOUND BY ANY CONTRACTOR.
8. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/ OR DEMOLITION AS PER DC SOILS EROSION AND SEDIMENT CONTROL HANDBOOK. IF ANY ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED. SEE SHEET C.07 AND C.08 FOR SEDIMENT AND EROSION CONTROL PLAN AND DETAILS.

DEMOLITION KEYNOTES:

1	EXISTING 3.5' HIGH FENCE TO BE REMOVED.
2	EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED.
3	EXISTING RETAINING WALL TO BE REMOVED
4	EXISTING TREE TO BE REMOVED
5	EXISTING SHRUB TO BE REMOVED
6	EXISTING BUSHES TO BE REMOVED
7	EXISTING GROUND LIGHT TO BE REMOVED
8	EXISTING STAIR TO BE DEMOLISHED
9	EXISTING BRICK WALK TO BE REMOVED

DEMOLITION LEGEND

	PROPOSED
PAVEMENT DEMOLITION	▨
CONCRETE DEMOLITION	⬚
DEMOLITION KEY-NOTE	1
ITEM DEMOLITION	⊗
TERMINATE DEMOLITION	═══ ═╪═
UTILITY DEMOLITION	— W —/\/\/—
CAPPED UTILITY	— W —[—
LIMIT OF DISTURBANCE	- - - - - - -

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04/29/06

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO.
HOK: 04-14021-00

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06-30-06

SHEET TITLE

DEMOLITION PLAN

CONSTRUCTION DOCUMENTS

SCALE: 1"=10'

SHEET NO.
C-02

REVISION:

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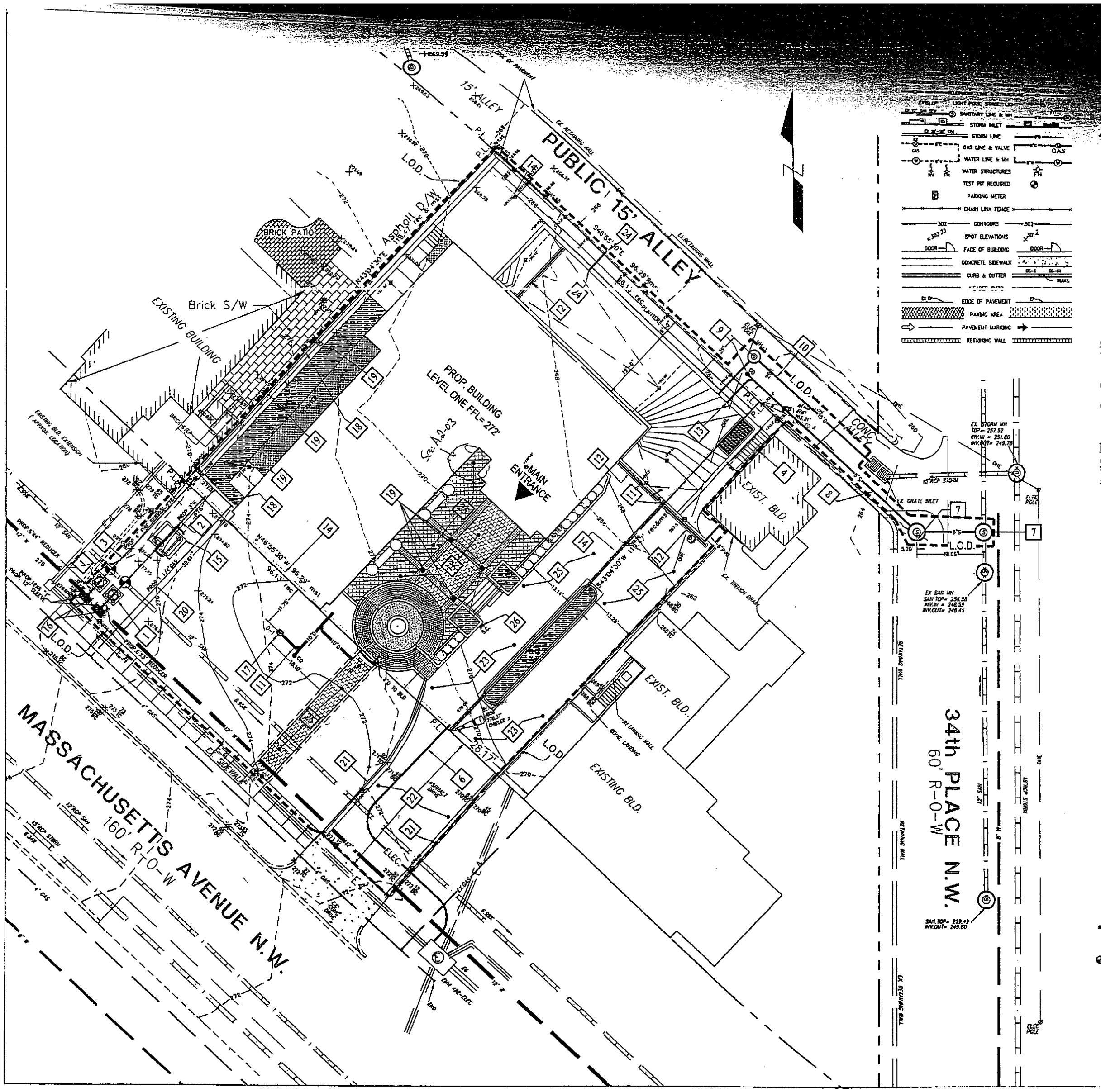

3. ONCE THE ... TO THE DOCUMENTS AND PERMITS OFFICE AT ROOM ... SEWER DESIGN SECTION AT 5000 OVERLOOK AVENUE, S.W., 5TH FLOOR.
4. UNDER DC/WASA CUSTOMER FEES AND CHARGES, CONTRACTORS, PLUMBERS, OWNERS ARE RESPONSIBLE FOR EXCAVATIONS, BACKFILLING, REPAVING AND RESTORATION OF PUBLIC SPACE FOR STREET AND SIDEWALKS CUTS, FOR NEW UTILITIES, CONNECTIONS, TAPS AND ABANDONMENT OF SERVICES WITHIN PUBLIC SPACE UNDER DC/WASA INSPECTION. DC/WASA IS NOT RESPONSIBLE FOR FINAL RESTORATION OF STREET AND SIDEWALK CUTS PERFORMED.

METER & METER TRANSMITTING DEVICES NOTES:

THE AUTHORITY HAS INSTALLED A FIXED NETWORK AUTOMATIC METER READING SYSTEM. THIS SYSTEM WILL ELIMINATE THE REQUIREMENT TO READ METERS MANUALLY. METERS INSTALLED BY WASA OR PRIVATE OWNERS OF METERS WILL NEED TO MEET THE FOLLOWING SPECIFICATIONS IN ORDER FOR WASA TO READ METERS AUTOMATICALLY:

1. METERS, INSTALLATIONS AND INSPECTIONS MUST COMPLY WITH ALL DCWR CODES AND SPECIFICATIONS.
2. ALL NEW METERS INSTALLED, INCLUDING PRIVATELY OWNED METERS MUST BE "TRUE ABSOLUTE ENCODER" TYPE METERS OR "DIRECT-READ" METERS THAT CONVERT METER READINGS TO DIGITAL PULSES FROM THE METER REGISTERS.
3. ALL METER REGISTERS SHOULD BE ABLE TO CONVERT ALL THE DIALS IN THE METER REGISTER TO DIGITAL PULSES.
4. THE METERS MUST MEASURE WATER IN 100 CUBIC FEET INCREMENTS. ALL NEW METERS MUST HAVE A METER READING TRANSMITTING UNIT ATTACHED TO THE METER REGISTERS, SEALED SO AS TO MAKE IT WATER TIGHT. THE TRANSMITTING UNIT SHOULD BE PROGRAMMABLE TO DCWASA'S FCC APPROVED RADIO FREQUENCY, AND COMPATIBLE WITH HEXAGRAM, INC. HARDWARE AND SOFTWARE.
5. ALL NEW METERS 3" OR GREATER MUST HAVE TEST PLUG IN THE METER.
6. ALL NEW METERING CONFIGURATIONS SHOULD HAVE STRAINER WHERE APPROPRIATE TO MANUFACTURER'S SPECIFICATIONS.

OUTSIDE LOCATIONS:

A. THE NEW METER LID MUST BE OF A COMPOSITION AND TENSILE STRENGTH SO AS TO PERMIT A RADIO SIGNAL TO PROPAGATE THROUGH THE METER LID AND SECURE THE METER PIT, AGAINST LIGHT VEHICLE TRAFFIC AND PEDESTRIAN FOOT TRAFFIC. LARGE METER INSTALLATIONS MUST HAVE METER LIDS THAT MAY WITHSTAND HEAVY VEHICLE TRAFFIC.
B. THE RADIO-TRANSMITTING DEVICE MUST BE SECURELY ANCHORED TO THE UNDERSIDE OF THE NEW TRANSMITTER FRIENDLY METER LID, SO AS TO PERMIT A RADIO SIGNAL TO COMMUNICATE WITH A DATA COLLECTION UNIT.
C. THE RADIO-TRANSMITTING DEVICE MAY ALSO BE INSTALLED THROUGH THE EXISTING CAST IRON METER LID OR A NEW CAST IRON METER LIDS SO AS PERMIT A SIGNAL TO COMMUNICATE WITH A DATA COLLECTION DEVICE AND POSE NO TRIPPING HAZARD.

APPROVED METERS, METER LIDS AND MTU CURRENTLY USED BY DCWASA:

1. HEXAGRAM INC. METER TRANSMITTING UNIT;
2. ABB WATER METERS INC. WITH MTU PERMANENTLY POTTED AT THE FACTORY
   - MODEL C3000 2"-6" COMPOUND METERS;
3. ARMORCAST INC.
   - METER LID 21 1/2". METER LID MAY NEED TO BE HEAVY DUTY CAST IRON WITH THE RADIO TRANSMITTING DEVICE INSTALLED THROUGH THE EXISTING CAST IRON METER LID TO ALLOW REMOVAL OF THE LARGER SIZE METERS

PROPOSED KEYNOTE:

[1] NEW 4" FIRE SERVICE AND 3" WATER VALVE CASING PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. W/20.01.

[2] NEW 3" DIP CLASS 52 DOMESTIC SERVICE PER DC/WASA STANDARDS AND SPECIFICATIONS.

[3] NEW 4" DIP CLASS 52 FIRE SERVICE PER DC/WASA STANDARDS AND SPECIFICATIONS.

[4] PROPOSED STAIR. REFER ARCHITECTURAL/LANDSCAPE DRAWINGS FOR DETAIL.

[5] NEW TELECOM LINE. REFER TO ELECTRICAL DRAWING FOR DETAILS. CONTRACTOR TO COORDINATE REQUIREMENTS AND POSSIBLE ROUTING WITH VERIZON.

[6] PROPOSED 4-4" ELECTRIC CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR DETAILS AND ACTUAL LOCATION. CONTRACTOR TO COORDINATE POSSIBLE ROUTING WITH PEPCO.

[7] NEW 4' DIAMETER DROP MANHOLE WITH DOGHOUSE BASE PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. S/20.01 AND S/25.01.

[8] NEW 8" PVC SCHEDULE 40 SANITARY SEWER PER DC/WASA STANDARDS AND SPECIFICATIONS.

[9] NEW CLEANOUT. REFER TO SHEET C.05 OR DETAILS.

[10] NEW 15" RCP STORM LINE.

[11] PROPOSED PVC SHEDULE 40 STORM SEWER FROM AREA DRAIN TO BUILDING. REFER PLUMBING DRAWING FOR CONNECTION

[12] PROPOSED TRENCH DRAIN. REFER TO ARCHITECTURAL DRAWING FOR ACTUAL LOCATION AND PLUMBING DRAWING FOR CONNECTION.

[13] PROPOSED PVC SCHEDULE 40 SANITARY PIPE. REFER PLUMBING DRAWING FOR CONNECTION.

[14] PROPOSED UNDERGROUND PARKING/BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.

[15] PROPOSED WATER METER PER DC/WASA STANDARDS AND SPECIFICATION.REFER TO DC/WASA DRAWING DGW/23.01 FOR DETAIL.

[16] PROPOSED CONCRETE THRUST BLOCK PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA DRAWING W/40.01. COORDINATE REQUIREMENTS WITH DC/WASA INSPECTOR MR. TED DYSON AT 202-787-2377.

[17] PROPOSED 12"X12" AREA DRAIN. REFER TO SHEET C-04 FOR DETAIL ANS SPECIFICATION

[18] PROPOSED RETAINING WALL. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAIL.

[19] PROPOSED 4" DIA AREA DRAIN. REFER TO ARCHITETURAL AND PLUMBING DRAWINGS FOR DETAIL.

[20] NEW 1 1/4" GAS SERVICE. COORDINATE REQUIREMENTS WITH WASHINGTON GAS AT 703-750-5983.

[21] PROPOSED CONCRETE CURB

[22] ASPHALT TO BE RESURFACED

[23] PROPOSED ASPHALT AREA

[24] PROPOSED INCOMING PHONE SERVICE CONDUIT. CONTRACTOR TO COORDINATE POSSIBLE ROUTING WITH VERIZON.

[25] REFER TO ARCHITECTURAL PLANS FOR PAVERS DETAIL.

[26] PROPOSED SIAMESE CONNECTION. REFER TO PLUMBING DRAWINGS.

* THESE DIMENSIONS TO THE FACE OF CURB ARE AT THE REQUEST OF DC PERMITTING OFFICE. VERIFY LOCATION OF UTILITIES WITH MEP DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. REFER TO MEP DRAWINGS FOR ACTUAL LOCATION.

⊕ TEST PITS ARE REQUIRED AT ALL PROPOSED UTILITY CROSSINGS WITH ALL EXISTING UTILITY LINES TO DETERMINE THE EXACT HORIZONTAL LOCATION, ELEVATION AND ADD SIZE OF THE EXISTING UTILITIES. A MINIMUM OF ONE FOOT VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN EXISTING AND PROPOSED UTILITIES. TEST PITS SHOULD BE COMPLETED PRIOR TO ORDERING ANY STRUCTURES OR PIPE MATERIALS. NOTIFY ENGINEER OF ANY CONFLICT WITH PROPOSED PLANS.

NORTH

10' 5' 0 10' 20'
1" = 10'

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Washington, D.C.

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Soka Gakkai International - USA

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(F) 703.264.0595
www.ekcorp.com

SEAL
JEFF ABRAVESH
900498
06/29/06

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
SITE AND UTILITY PLAN

CONSTRUCTION DOCUMENTS

SCALE: 1" = 10'
SHEET NO. C-03
REVISION:

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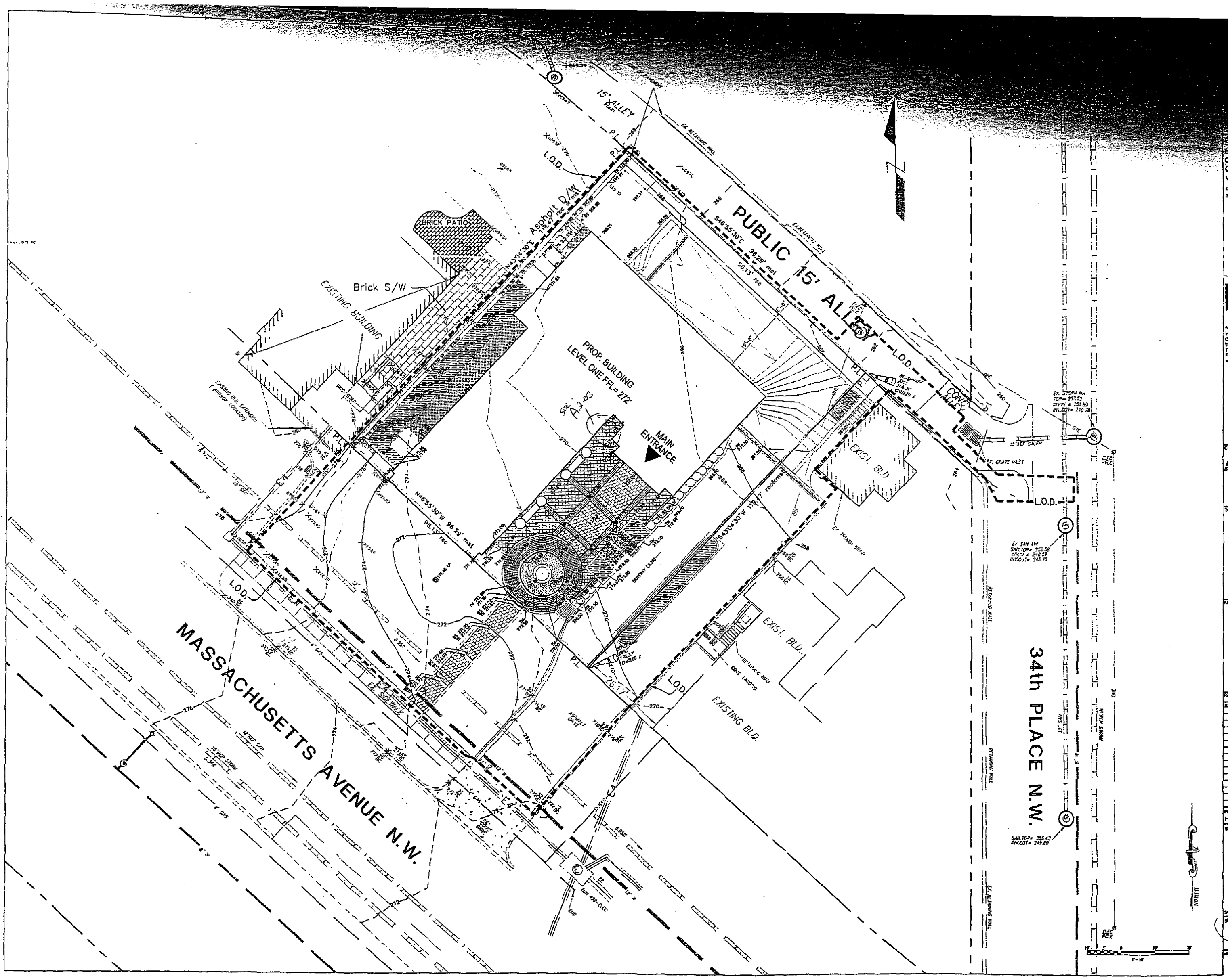

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SEAL

JEFF ABRAVESH 900496 06/29/06

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00

DATE: 06-30-06

SHEET TITLE

SITE GRADING PLAN

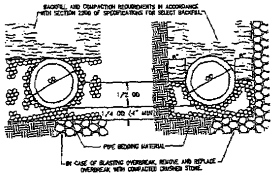
CONSTRUCTION DOCUMENTS

SCALE: 1" = 10'

SHEET NO. C-04

REVISION:

CIVIL


BACKFILL AND COMPACTION REQUIREMENTS IN ACCORDANCE WITH SECTION 2200 OF SPECIFICATIONS FOR SELECT BACKFILL
OD
1/2 OD
1/4 OD (4" MIN)
PIPE BEDDING MATERIAL
IN CASE OF BLASTING OVERBREAK, REMOVE AND REPLACE OVERBREAK WITH COMPACTED CRUSHED STONE.

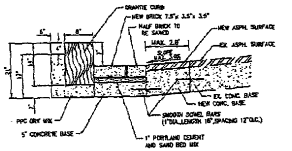
BACKFILL AT CROWN
(PIPE BEDDING FOR TRENCH WIDTH EXCEEDING WIDTH SPECIFIED)

BACKFILL AT SPRINGLINE
(PIPE BEDDING FOR TRENCH WIDTH WITHIN WIDTH SPECIFIED)

TRENCHING METHODS MUST BE IN COMPLIANCE WITH OSHA REQUIREMENTS.

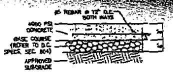
THE PIPE SHALL BE BEDDED IN CAREFULLY COMPACTED PIPE BEDDING MATERIAL PLACED ON A FLAT TRENCH BOTTOM. THE PIPE BEDDING MATERIAL SHALL HAVE A MINIMUM HORIZONTAL THICKNESS OF ONE-FOURTH THE OUTSIDE PIPE DIAMETER (8" MINIMUM) AND SHALL EXTEND VERTICALLY IN ACCORDANCE WITH SECTION SHOWN. IF THE MAXIMUM WIDTH OF THE TRENCH AT THE TOP OF THE PIPE EXCEEDS THOSE SPECIFIED, PIPE BEDDING MATERIAL WILL BE BROUGHT TO THE TOP OF THE PIPE FOR THE FULL WIDTH OF THE TRENCH. THE REMAINDER OF THE SIDE FILLS AND OVER THE TOP OF THE PIPE SHALL BE FILLED WITH SELECT BACKFILL MATERIAL. SHOULD THE CONTRACTOR ELECT TO USE LARGER STONE TO CARRY THE WATER, THE LARGER STONE IS TO BE PLACED BENEATH THE SPECIFIED AMOUNT OF PIPE BEDDING MATERIAL. THE LARGER STONE IS NOT IN ANY WAY TO AFFECT THE AMOUNT OF PIPE BEDDING TO BE USED.

TYPICAL TRENCH SECTIONS
(NOT TO SCALE)



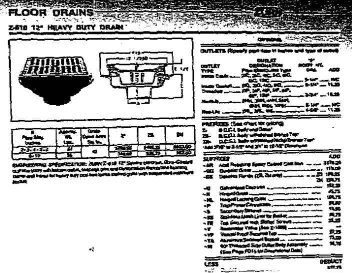
NOTE:
- NEW SURFACE, BASE AND SUBBASE COURSES TO MATCH EXISTING.
- ASPHALT PAVEMENT MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS & TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS.

GRANITE CURB & BRICK GUTTER DETAIL
(NOT TO SCALE)


#5 REBAR @ 12" O.C. BOTH WAYS
4000 PSI CONCRETE
BASE COURSE (REFER TO D.C. SPECS. SEC. 804)
APPROVED SUBGRADE

NOTE:
1. REFER TO SITE PLAN FOR JOINT LOCATIONS
2. PROVIDE EXPANSION JOINTS ALONG FACE OF BUILDINGS, WHERE NEW CONCRETE PAVEMENT MEETS EXISTING AT ALL FIXED OBJECT AND AS SHOWN ON THE SITE PLAN.

TYPICAL CONCRETE PAVEMENT DETAIL FOR DRIVEWAY APRON
(NOT TO SCALE)



FLOOR DRAINS

Z-610 12" HEAVY DUTY DRAIN

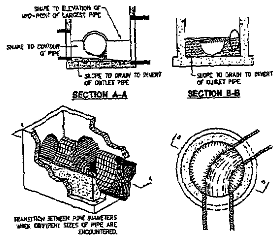
OUTLETS

PREFIXES

SUFFIXES

LESS

DEDUCT


SHAPE TO ELEVATION OF MID-POINT OF LARGEST PIPE
SHAPE TO CONTOUR OF PIPE
SLOPE TO DRAIN TO INVERT OF OUTLET PIPE
SLOPE TO DRAIN TO INVERT OF OUTLET PIPE

SECTION A-A

SECTION B-B

TRANSITION BETWEEN PIPE DIAMETERS WHEN DIFFERENT SIZES OF PIPE ARE ENCOUNTERED.

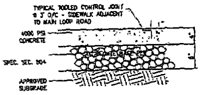
NOTES:

SHAPING OF MANHOLES AND INLET INVERTS IN ACCORDANCE WITH THIS DRAWING IS TO APPLY TO THOSE STRUCTURES SPECIFED ON PLANS OR WHERE INVERT OF PIPE IS ABOVE INVERT OF STRUCTURE.

MANHOLE OR DROP INLET IS TO BE FORMED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE STANDARD OR SPECIAL DRAWING. THE INVERT SHAPING AS DETAILED HEREON IS TO CONSIST OF A PORTLAND CEMENT CONCRETE MIX CONFORMING TO CLASS A3 OR CLASS C1, EXCEPT THAT 25% OF COARSE AGGREGATE MAY BE UP TO 4" DIAMETER AND CONSIST OF STONE, BROKEN BRICK, BROKEN CONCRETE, OR BROKEN CONCRETE BLOCK. THE SURFACE SHALL BE LEFT SMOOTH BY MEANS OF HAND TROWELLING. NONE OF THE COARSE AGGREGATE SHALL REMAIN EXPOSED.

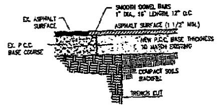
DETAILS OF INVERT SHAPING AS SHOWN HEREON ARE FOR EXAMPLE PURPOSES ONLY. EACH MANHOLE OR DROP INLET IS TO BE SHAPED INDIVIDUALLY TO BEST FIT THE PARTICULAR INLET AND OUTLET CONFIGURATION AND FLOW LINES.

MANHOLE SHAPING METHOD
(NOT TO SCALE)


TYPICAL TOOLED CONTROL JOINT @ 5' O/C - SIDEWALK ADJACENT TO MAIN LOOP ROAD
1"
4000 PSI CONCRETE
DC SPEC. SEC. 804
APPROVED SUBGRADE

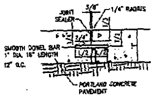
NOTE:
1. PROVIDE EXPANSION JOINT WHERE NEW CONCRETE SIDEWALK MEETS EXISTING.
2. REFER TO SITE PLAN FOR JOINT LOCATION.

TYPICAL CONCRETE SIDEWALK
(NOT TO SCALE)

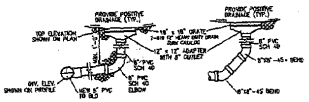

SMOOTH DOWEL BARS 1" DIA., 16" LENGTH, 12" O.C
EX. ASPHALT SURFACE
ASPHALT SURFACE (1 1/2" MIN.)
EX. P.C.C. BASE COURSE
NEW P.C.C. BASE THICKNESS TO MATCH EXISTING
COMPACT SOILS BACKFILL
TRENCH CUT

NOTE:
- NEW SURFACE, BASE AND SUBBASE COURSES TO MATCH EXISTING.
- ASPHALT PAVEMENT MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS.

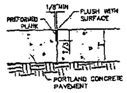
PAVEMENT REPAIR DETAIL
(NOT TO SCALE)


JOINT SEALER
3/8"
1/4" RADIUS
T/2
T
L/2
SMOOTH DOWEL BAR 1" DIA. 16" LENGTH 12" O.C.
PORTLAND CONCRETE PAVEMENT

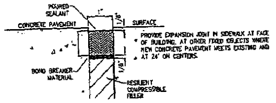
CONTRACTION JOINT WITH LOAD TRANSFER FOR CONCRETE DRIVEWAY APRON
(NOT TO SCALE)


PROVIDE POSITIVE DRAINAGE (TYP.)
PROVIDE POSITIVE DRAINAGE (TYP.)
TOP ELEVATION SHOWN ON PLAN
18" x 18" GRATE Z-610 12" HEAVY DUTY DRAIN ZURN CATALOG
12" x 12" ADAPTER WITH 8" OUTLET
8" PVC SCH 40
8"X8" -45 + BEND
8" PVC SCH 40
8" PVC SCH 40 ELBOW
INV. ELEV. SHOWN ON PROFILE
NEW 8" PVC TO BLD
8"X8" - 45 BEND

TYPICAL AREA DRAIN
(NOT TO SCALE)

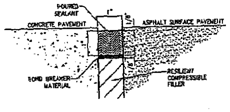


SIDEWALK CONTRACTION JOINT
(NOT TO SCALE)

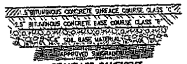


- PROVIDE EXPANSION JOINT IN SIDEWALK AT FACE OF BUILDING, AT OTHER FIXED OBJECTS WHERE NEW CONCRETE PAVEMENT MEETS EXISTING AND AT 24' ON CENTERS.

SIDEWALK EXPANSION JOINT DETAIL
(NOT TO SCALE)

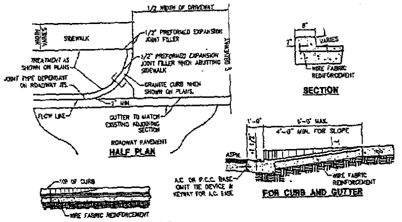


EXPANSION JOINT BETWEEN THE CONCRETE AND ASPHALT PAVEMENT DETAIL
(NOT TO SCALE)


1.5" BITUMINOUS CONCRETE SURFACE COURSE CLASS "C"
2.5" BITUMINOUS CONCRETE BASE COURSE CLASS "B"
6" SOIL BASE MATERIAL
APPROVED SUBGRADE

STANDARD PAVEMENT TYPICAL ASPHALT
(NOT TO SCALE)

NOTE:
- ASPHALT AND SOIL BASE MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS.
- TESTS OF SUBGRADE MUST BE SUBMITTED FOR ACTUAL DETERMINATION OF SUBBASE THICKNESS PRIOR TO CONSTRUCTION AND PAVEMENT DESIGN ADJUSTED IF REQUIRED.


1/2 WIDTH OF DRIVEWAY
WIDTH VARIES
SIDEWALK
1/2" PREFORMED EXPANSION JOINT FILLER
1/2" PREFORMED EXPANSION JOINT FILLER WHEN ABUTTING SIDEWALK
TREATMENT AS SHOWN ON PLANS
JOINT TYPE DEPENDANT ON ROADWAY JTS.
GRANITE CURB WHEN SHOWN ON PLANS.
℄ DRIVEWAY
2" MIN.
FLOW LINE
GUTTER TO MATCH EXISTING ADJOINING SECTION
ROADWAY PAVEMENT
8"
2"
VARIES
WIRE FABRIC REINFORCEMENT
1'-0"
6'-0" MAX.
4'-0" MIN. FOR SLOPE
ASPH.
A.C. OR P.C.C. BASE OMIT TIE DEVICE & KEYWAY FOR A.C. BASE
WIRE FABRIC REINFORCEMENT
TOP OF CURB
WIRE FABRIC REINFORCEMENT

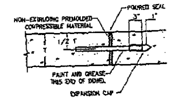
HALF PLAN

SECTION

FOR CURB AND GUTTER

SECTION ELEVATION AT GUTTER LINE

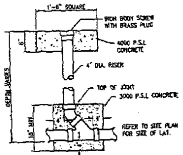
DRIVEWAY ENTRANCE
(NOT TO SCALE)


POURED SEAL
NON-EXTRUDING PREMOLDED COMPRESSIBLE MATERIAL
3"
1"
1/2 T
T
PAINT AND GREASE THIS END OF DOWEL
EXPANSION CAP

NOTE:
1. ALL FORMED JOINTS SHALL BE FINISHED WITH 1/4" RADIUS.
2. SIZE AND SPACING OF DOWELS IN TRANSITION SECTION SHALL BE GOVERNED BY THICKEST EDGE.

THICKNESS OF SLAB	DOWELS		
	DIAMETER	LENGTH	SPACING
	1"	16"	12"

DOWELED TRANSVERSE EXPANSION JOINT FOR CONCRETE DRIVEWAY APRON
(NOT TO SCALE)



CLEANOUT DETAIL
(NOT TO SCALE)

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SEAL
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900456
06/29/06

KEYPLAN

REVISIONS

No.	Description	Date

PROJECT NO. HOK: 04-14021-00
DATE: 06-30-06

SHEET TITLE
SITE DETAILS

CONSTRUCTION DOCUMENTS

SCALE: N.T.S.
SHEET NO. C-05
REVISION:

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