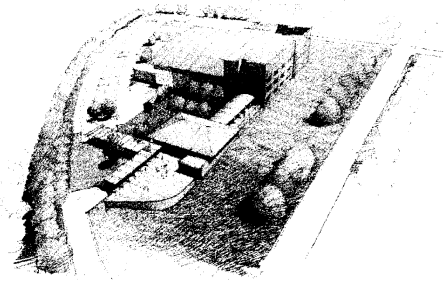
UNIFIED COMMUNICATIONS CENTER

DISTRICT OF COLUMBIA

OFFICE OF THE CHIEF TECHNOLOGY OFFICER (OCTO)



PREPARED FOR: OFFICE OF ZONING

PROPOSED SITE LOCATION:
ST. ELIZABETHS HOSPITAL
2700 MARTIN LUTHER KING JR, AVENUE
WASHINGTON, DC 20032

PLANNED UNIT DEVELOPMENT
21 DECEMBER 2001

TRW

DMJM

ZONING COMMISSION
District of Columbia
Case 01-30C
Exhibit 2

ZONING COMMISSION
District of Columbia
CASE NO.01-30C
EXHIBIT NO.2

GENERAL INFORMATION

SHEET NUMBER	DRAWING TITLE (NOTE: DOT (●) DENOTES SHEETS ISSUED)	SCHEMATIC DESIGN 09-27-01	90% CD PACKAGE & PERMIT PACKAGE 11-15-01	PLANNED UNIT DEVELOPMENT 12-21-01
	Cover Sheet	●	●	●
G-001	Index Sheet	●	●	●

CIVIL

C-01	Existing Conditions Plan	●	●	●
C-02	Existing Utility Plan	●	●	●
C-03	Building Demolition Plan	●	●	●
C-04	Utility Demolition Plan	●	●	●
C-05	Site Improvements Plan	●		●
C-06	Grading Plan	●		●
C-07	Drainage Area Maps			●
C-08	Utility Details I			●
C-09	Utility Details II			●
C-10	Site Details			●
C-11	Initial Sediment and Erosion Control Plan			●
C-12	Rough Grading and Sediment and Erosion Control Plan			●
C-13	Erosion and Sediment Control Notes I			●
C-14	Erosion and Sediment Control Notes II			●
C-15	Erosion and Sediment Control Notes III			●
C-16	Sediment and Erosion Control Details			●
C-17	Boundary and Survey Control Sketch			●

LANDSCAPE

L-001	Landscape Plan	●		●

ARCHITECTURAL

A-010	Lower Level Life Safety Egress Floor Plan	●		
A-011	Level 1 Life Safety Egress Floor Plan	●		
A-012	Level 2 Life Safety Egress Floor Plan	●		
A-013	Level 3 Life Safety Egress Floor Plan	●		
A-051	Site Plan	●		●
A-052	Construction Site Utilization Plan	●		
A-100	Lower Level Floor Plan	●		
A-100A	Lower Level Enlarged Floor Plan	●		●
A-100B	Lower Level Partial Plans	●		●
A-101	Level 1 Floor Plan	●		
A-101A	Level 1 Enlarged Floor Plan	●		●
A-101B	Level 1 Partial Plans	●		●
A-102	Level 2 Floor Plan	●		
A-102A	Level 2 Enlarged Floor Plan	●		●
A-103	Level 3 Floor Plan	●		
A-103A	Level 3 Enlarged Floor Plan	●		●
A-104	Roof Plan	●		
A-104A	Roof Level Enlarged Plan	●		●
A-301	West Building Elevation			●
A-302	South Building Elevation			●
A-303	East Building Elevation			●
A-304	North Building Elevation			●
A-401	Building Sections	●		●
A-402	Building Sections	●		●
A-403	Building Sections	●		

STRUCTURAL

SHEET NUMBER	DRAWING TITLE (NOTE: DOT (●) DENOTES SHEETS ISSUED)	SCHEMATIC DESIGN 09-27-01	90% CD PACKAGE & PERMIT PACKAGE 11-15-01	PLANNED UNIT DEVELOPMENT 12-21-01

MECHANICAL

M-100	Lower Level Mechanical Plan	●		
M-100A	Lower Level Enlargement Mechanical Plan	●		
M-100B	Lower Level Partial Mechanical Plan	●		
M-100C	Lower Level Enlarged Piping Plan	●		
M-101	First Level Mechanical Plan	●		
M-101A	First Level Enlarged Mechanical Plan	●		
M-101B	First Level Partial Mechanical Plan	●		
M-102	Second Level Mechanical Plan	●		
M-102A	Second Level Enlargement Mechanical Plan	●		
M-103	Third Level Mechanical Plan	●		
M-103A	Third Level Enlargement Mechanical Plan	●		
M-104	Roof Level Mechanical Plan	●		
M-104A	Roof Level Enlargement Mechanical Plan	●		
M-400	Details and Sections	●		

ELECTRICAL

E-000	Electrical Legend, Abbreviations, and Symbols	●		
E-002	Electrical Site Plan	●		
E-003	Electrical Single Line Diagram	●		
E-004	Electrical Lighting and Security Site Plan	●		
E-100	Lower Level Power Plan	●		
E-101	First Floor Power Plan	●		
E-102	Second Floor Power Plan	●		
E-103	Third Floor Power Plan	●		

PLUMBING

SHEET NUMBER	DRAWING TITLE (NOTE: DOT (●) DENOTES SHEETS ISSUED)	SCHEMATIC DESIGN 09-27-01	90% CD PACKAGE & PERMIT PACKAGE 11-15-01	PLANNED UNIT DEVELOPMENT 12-21-01
P-001	Plumbing Information Sheet	●		
P-100	Lower Level Plumbing Plan	●		
P-101	First Floor Plumbing Plan	●		
P-102	Second Floor Plumbing Plan	●		
P-103	Third Floor Plumbing Plan	●		

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Registration

No.	Description	Date
3.	Planned Unit Development	12/21/01
2.	90% Package & Permit Package	11/15/01
1.	Schematic Design	09/27/01

Scale: —
Project No: 514700
Drawn By:
Checked By: —

Key Plan

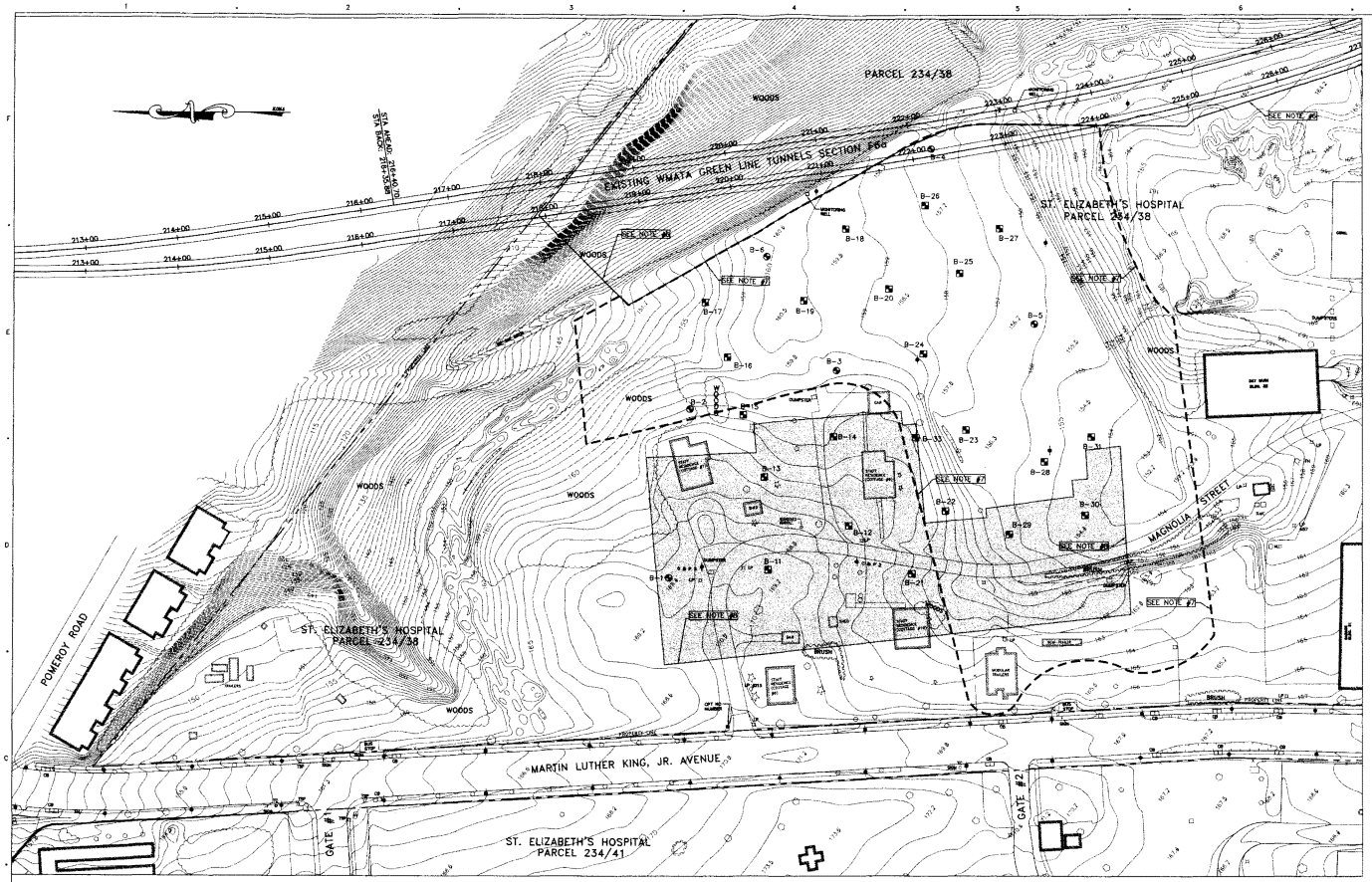
INDEX SHEET

G-001

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SEPTEMBER 27, 2001

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LEGEND

- CATCH BASIN
- FIRE HYDRANT
- SANITARY MANHOLE
- WATER MANHOLE
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- WATER VALVE
- GAS VALVE
- TELEPHONE LINE
- ELECTRICAL LINE
- ABANDONED LINE
- UTILITY POLE
- LIGHT POLE
- GENERATOR
- TRASH CAN
- DUMPSTER
- ASH FILL BOUNDARY (SCHNABEL REPORT)
- ASH FILL BOUNDARY (WMATA REPORT)
- DECIDUOUS TREE
- EVERGREEN TREE
- WOODS

EXISTING CONDITIONS PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

EXISTING CONDITIONS NOTES

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM AN AERIAL PHOTOGRAMMETRIC SURVEY (DATE OF PHOTOGRAPHY JANUARY 13, 2001) PROVIDED BY L. ROBERT KIMBALL & ASSOCIATES, INC.
2. EXISTING METRO ALIGNMENT WAS TAKEN FROM WMATA RECORD DRAWINGS M933-21 THROUGH M933-24 FOR THE GREEN LINE (BRANCH ROUTE) SECTION F66.
3. EXISTING SOIL BORING INFORMATION (FOR BORINGS NOTED AS ⊕) WAS TAKEN FROM A REPORT PREPARED BY SCHNABEL ENGINEERING ASSOCIATES, INC. UNDER CONTRACT NO. 01121161.
4. EXISTING SOIL BORING INFORMATION (FOR BORINGS NOTED AS ⊕) WAS TAKEN FROM A REPORT PREPARED BY SCHNABEL ENGINEERING ASSOCIATES, INC. UNDER CONTRACT NO. 01121049.
5. EXISTING BOUNDARY INFORMATION WAS TAKEN FROM A QUITCLAIM DEED FOR THE ST ELIZABETHS PROPERTY DATED SEPTEMBER 30, 1987 AND SIGNED ON MARCH 31, 1991. ADDITIONAL PROPERTY INFORMATION WAS ALSO TAKEN FROM A PLAT OF SURVEY FOR PARCELS 234/2 AND 234/38 DATED MARCH 31,1947 PREPARED BY THE DC SURVEYORS OFFICE.
6. LIMITS OF EXISTING ASH FILL WAS TAKEN FROM WMATA RECORD DRAWINGS M-933-27 FOR THE GREEN LINE (BRANCH ROUTE) SECTION F66. LIMITS SHOWN SHOULD BE CONSIDERED APPROXIMATE.
7. LIMITS OF ASH FILL WAS TAKEN FROM FIGURE NO. 4 OF A REPORT PREPARED BY SCHNABEL ENGINEERING ASSOCIATES, INC. UNDER CONTRACT NO. 01121161. LIMITS SHOWN SHOULD BE CONSIDERED APPROXIMATE.
8. LIMITS OF 5000 PSF BEARING PRESSURE (NOTED AS ▭) WAS TAKEN FROM FIGURE NO. 4 OF A REPORT PREPARED BY SCHNABEL ENGINEERING ASSOCIATES, INC. UNDER CONTRACT NO. 01121161. LIMITS SHOWN SHOULD BE CONSIDERED APPROXIMATE.

DHA #: 1428

PARCEL 234

LOT 38

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Registration

No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

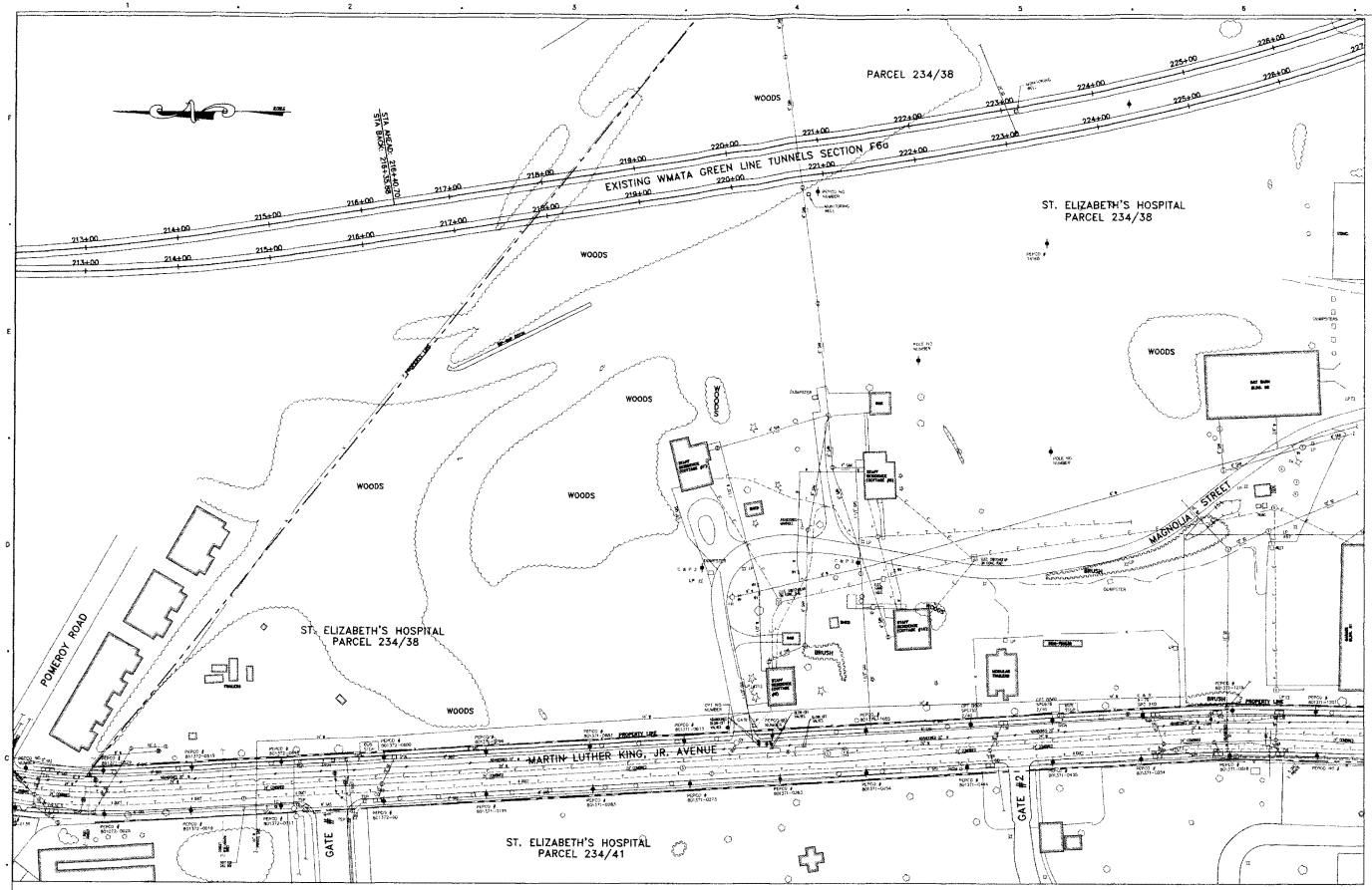
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Drawn By: FDW
Checked By: JPL

Key Plan

EXISTING CONDITIONS PLAN

C-01

SEPTEMBER 27, 2001



EXISTING UTILITY PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

LEGEND

- CATCH BASIN
- FIRE HYDRANT
- SANITARY MANHOLE
- WATER MANHOLE
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- WATER VALVE
- GAS VALVE
- TELEPHONE LINE
- ELECTRICAL LINE
- ABANDONED LINE
- UTILITY POLE
- LIGHT POLE
- GENERATOR
- TRASH CAN
- DUMPSTER
- ASH FILL BOUNDARY (SCHNABEL REPORT)
- ASH FILL BOUNDARY (WMATA REPORT)
- DECIDUOUS TREE
- EVERGREEN TREE
- WOODS

EXISTING UTILITY NOTES

1. EXISTING UTILITY LINES SHOWN WERE TAKEN FROM AVAILABLE PUBLIC AND ST. ELIZABETH'S HOSPITAL RECORDS AND MAY NOT BE COMPLETELY RELIABLE. THE CONTRACTOR SHALL FIELD LOCATE AND CHECK ALL UTILITIES PRIOR TO THE START OF ANY WORK.
2. DUE TO THE PROXIMITY OF LIVE UNDERGROUND AND OVERHEAD UTILITIES, DELON HAMPTON & ASSOCIATES, CHARTERED, IS NOT RESPONSIBLE FOR ANY DAMAGE OR INJURY SUSTAINED DURING CONSTRUCTION BY ANY PERSON, VEHICLES, OR EQUIPMENT USED ON OR ADJACENT TO THE SITE.

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Registration

No.	Description	Date
PUD SUBMISSION		12/21/01
SD SUBMISSION		9/27/01

Scale: AS SHOWN
Project No: 314700
Drawn By: FDW
Checked By: JR.

Key Plan

DHA #: 1428
PARCEL 234
LOT 38

EXISTING UTILITY PLAN

C-02

SEPTEMBER 27, 2001



SITE DEMOLITION NOTES

1. EXISTING PAVEMENT SHALL BE SAW CUT BEFORE REMOVAL. ALL SAW CUTS SHALL BE STRAIGHT, EVEN CUTS. JAGGED EDGES WILL NOT BE PERMITTED. THE SAW CUT DEPTH SHALL EXTEND AT LEAST 2/3 TIMES THE THICKNESS OF THE EXISTING PAVEMENT TO REMAIN IN PLACE. SAWCUT LINE ALONG CURB LINE IS SET 2' FROM EXISTING LIP OF GUTTER PAN.
2. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS SO AS NOT TO DAMAGE EXISTING ADJACENT FACILITIES AND STRUCTURES THAT ARE TO REMAIN. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION OR BETTER (UNLESS OTHERWISE DETERMINED) TO THE SATISFACTION OF THE ENGINEER.
3. ALL EXISTING TREES THAT ARE TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE WITH BLAZE ORANGE PLASTIC MESH FENCING PLACED AT THE DRIPLINE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REMOVAL OF ALL DUMPSTERS AND OTHER SIMILAR PRIVATELY OWNED EQUIPMENT INSTALLED WITHIN THE LIMITS OF THE PROJECT.
5. THE CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777) AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY DEMOLITION WORK.
6. ADJACENT STREETS AND PARKING AREAS SHALL BE MAINTAINED IN A CLEAN CONDITION MUD AND DUST FREE. ADEQUATE MEANS AND FACILITIES SHALL BE PROVIDED BY THE CONTRACTOR TO CLEAN TRUCKS AND OTHER EQUIPMENT LEAVING THE SITE.
7. ACCESS TO THE EXISTING WMATA (METRO) BUS STOPS SHALL BE MAINTAINED AT ALL TIMES.

SITE DEMOLITION PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

SITE DEMOLITION LEGEND

- EXISTING BUILDING OR GARAGE TO BE DEMOLISHED. EXISTING FOUNDATION/BASEMENT OR SLAB TO BE REMOVED
- EXISTING MODULAR TRAILERS, WOOD DECKING AND TIE DOWNS TO BE REMOVED
- EXISTING BUILDING OR GARAGE TO BE RELOCATED. EXISTING FOUNDATION/BASEMENT OR SLAB TO BE REMOVED.
- EXISTING PAVEMENT AND BASE TO BE REMOVED
- EXISTING FOREST WOODS TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- (1) EXISTING CONCRETE DRIVEWAY TO BE REMOVED
- (2) EXISTING FENCE TO BE REMOVED
- (3) EXISTING CURB AND GUTTER TO BE REMOVED
- (4) EXISTING MONITORING WELL TO BE CLOSED BY A CERTIFIED WELL DRILLER

DHA #: 1428

PARCEL 234

LOT 38

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Registration

No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

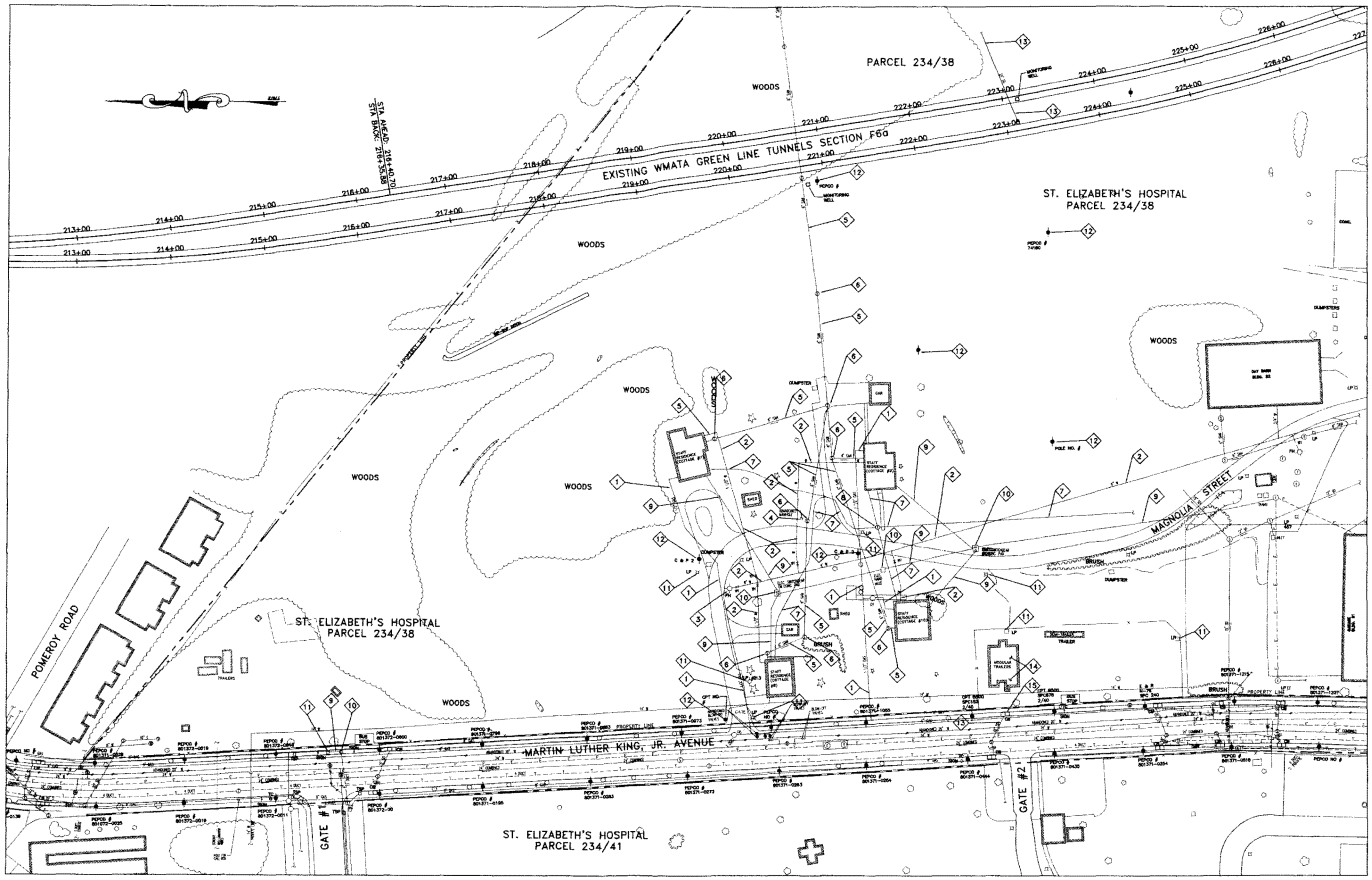
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Drawn By: FDW
Checked By: JRL

Key Plan

SITE DEMOLITION PLAN

C-03

SEPTEMBER 27, 2001



UTILITY DEMOLITION LEGEND

1. EXISTING GAS LINE AND ASSOCIATED VALVES AND METERS TO BE REMOVED
2. EXISTING WATER LINE AND ASSOCIATED APPURTENANCES TO BE REMOVED
3. EXISTING FIRE HYDRANT TO BE REMOVED
4. EXISTING ABANDONED MANHOLE TO BE REMOVED
5. EXISTING SANITARY SEWER LINE TO BE REMOVED
6. EXISTING SANITARY SEWER MANHOLE TO BE REMOVED
7. EXISTING TELEPHONE LINES AND CONDUITS TO BE REMOVED
8. EXISTING TELEPHONE MANHOLE TO BE REMOVED
9. EXISTING ELECTRIC LINES AND CONDUITS TO BE REMOVED
10. ELECTRIC HANDBOX AND/OR ELECTRIC EQUIPMENT BOX TO BE REMOVED
11. EXISTING LIGHT POLE AND ASSOCIATED LINES AND CONDUIT TO BE REMOVED
12. EXISTING POLE AND ASSOCIATED LINE AND CONDUITS TO BE REMOVED
13. EXISTING STORM DRAIN LINE TO BE REMOVED
14. EXISTING TEMPORARY UTILITY CONNECTIONS TO TRAILERS TO BE REMOVED
15. EXISTING CATCH BASIN TO BE REMOVED

EXISTING UTILITY PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

UTILITY DEMOLITION NOTES

1. UTILITY INFORMATION SHOWN HEREIN WAS OBTAINED FROM AVAILABLE UTILITY COMPANY AND ST. ELIZABETH'S RECORDS AND MAY NOT BE COMPLETELY RELIABLE. ALL UTILITIES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK.
2. DUE TO THE PROXIMITY OF LIVE UNDERGROUND AND OVERHEAD UTILITIES, DELON HAMPTON AND ASSOCIATES, CHARTERED IS NOT RESPONSIBLE FOR ANY DAMAGE OR INJURY SUSTAINED DURING CONSTRUCTION BY ANY PERSONS, VEHICLES, OR EQUIPMENT USED ON OR ADJACENT TO THE SITE.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY (1-800-257-7777) AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY DEMOLITION WORK.
4. ALL UTILITY DEMOLITION WORK MUST BE CONDUCTED IN ACCORDANCE WITHIN THE SEQUENCE OF CONSTRUCTION NOTED IN THE APPROVED EROSION AND SEDIMENT CONTROL PLANS.
5. ALL TRENCHES AND HOLES RESULTING FROM THE REMOVAL OR EXISTING UTILITY LINES SHALL BE BACKFILLED WITH SELECT MATERIAL PLACED AND COMPACTED IN 8" MAXIMUM LIFTS.
6. THE CONTRACTOR SHALL COORDINATE THE CUTTING AND CAPPING OF EXISTING ON-SITE LINES WITH ST. ELIZABETH'S FACILITY MANAGEMENT PERSONNEL.

DHA #: 1428

PARCEL 234

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Registration

PUD SUBMISSION	12/21/01
SD SUBMISSION	9/27/01
No. Description	Date

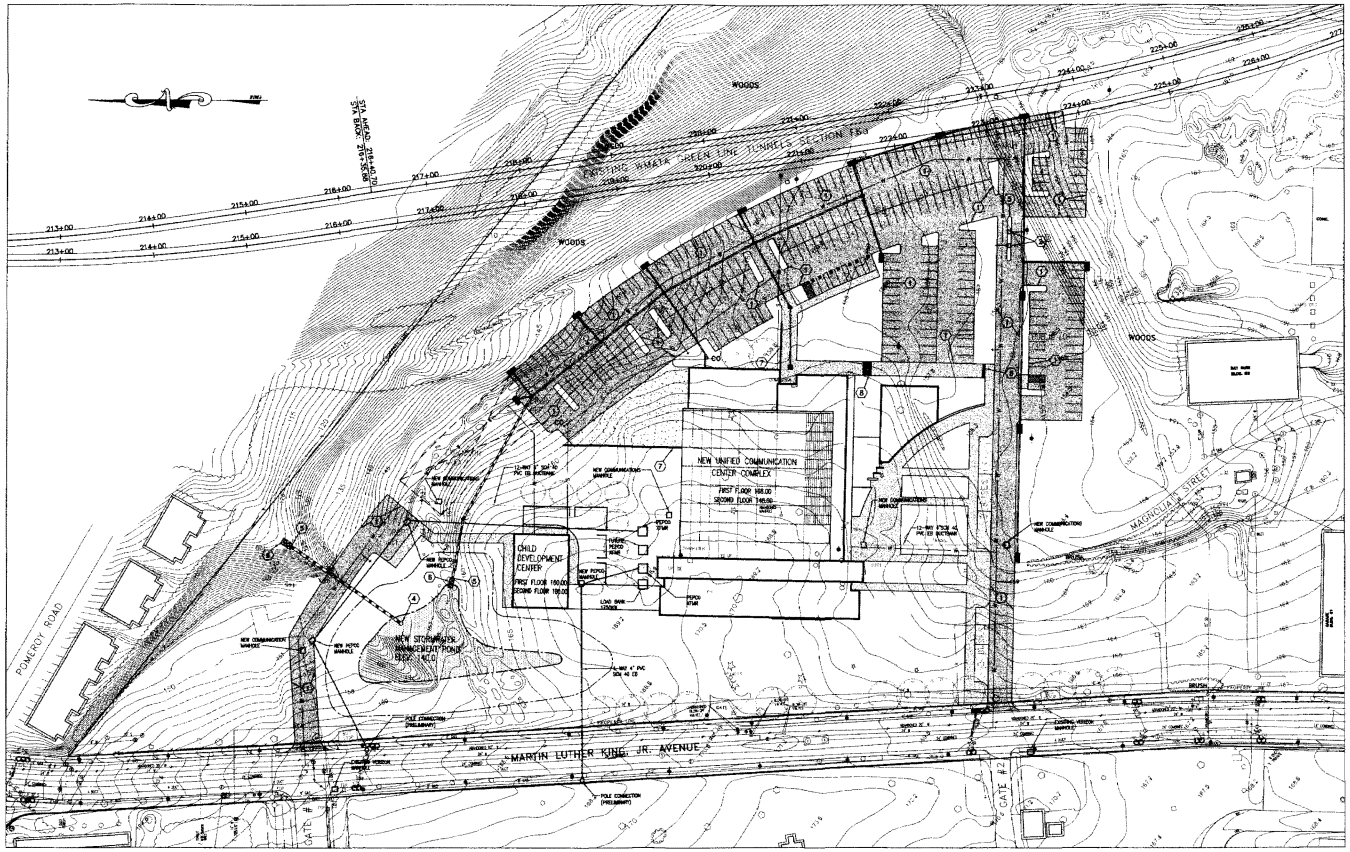
Scale:	AS SHOWN
Project No:	31470D
Drawn By:	FDW
Checked By:	JRL

Key Plan

UTILITY DEMOLITION PLAN

C-04

SEPTEMBER 27, 2001



SITE IMPROVEMENTS LEGEND

1. NEW CONCRETE CURB AND GUTTER
2. NEW SECURITY GATES WITH CARD READERS
3. NEW CONCRETE ISLAND
4. NEW STORMWATER MANAGEMENT RISER STRUCTURE
5. NEW CONCRETE ENDWALL
6. NEW RIPRAP PROTECTION
7. NEW CONCRETE RETAINING WALL
8. NEW CONCRETE STEPS

- NEW ASPHALT PAVEMENT AND GRADED AGGREGATE BASE
- NEW REINFORCED CONCRETE PAVEMENT AND GRADED AGGREGATE BASE
- NEW CONCRETE SIDEWALK AND GRADED AGGREGATE BASE
- NEW CURB INLET
- NEW GRATE INLET
- NEW MANHOLE
- CO NEW CLEANOUT
- NEW FIRE HYDRANT
- S —— NEW SANITARY SEWER
- W —— NEW WATER MAIN
- NEW STORM DRAIN

SITE IMPROVEMENTS PLAN

SCALE: 1"=40'

(IN FEET)
1 inch = 40 ft.

IMPROVEMENTS NOTES

1. TIES TO EXISTING PAVEMENT AREAS SHALL BE SMOOTH CONSISTENT TRANSITIONS. NO ABRUPT CHANGE IN LINE AND /OR GRADE WILL BE PERMITTED.
2. POSITIVE DRAINAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PONDING OR STANDING WATER WILL NOT BE PERMITTED.
3. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. SURFACED STREETS AND PARKING AREAS SHALL BE MAINTAINED IN A CLEAN CONDITION MUD AND DUST FREE AT ALL TIMES. ADEQUATE MEANS SHALL BE PROVIDED TO CLEAN TRUCKS AND OTHER EQUIPMENT USING SURFACED STREETS AND PARKING AREAS.
5. THE EXISTING SURROUNDING FACILITIES ARE TO REMAIN IN OPERATION WHILE CONSTRUCTION WORK IS BEING DONE. ALL UTILITY WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND SHALL BE PERFORMED IN AN EXPEDITIOUS MANNER.
6. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS SO AS NOT TO DAMAGE EXISTING ADJACENT FACILITIES AND STRUCTURES. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION OR BETTER UNLESS NOTED OTHERWISE.
7. THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO MINIMIZE DAMAGE TO EXISTING TREES THAT ARE TO REMAIN.
8. ALL NEW PAINT MARKINGS SHALL BE REFLECTIVE LATEX BASED WITH TRAFFIC RESISTANT GLASS BEADS.
9. ALL UTILITY VALVES, MANHOLES, AND THE LIKE WHETHER OR NOT INDICATED ON THESE PLANS SHALL BE ADJUSTED TO THE NEW GRADE BY THE CONTRACTOR.
10. ALL STORM DRAIN PIPING SHALL BE REINFORCED CONCRETE CLASS IV UNLESS NOTED OTHERWISE.
11. SEE SITE DEMOLITION PLAN (SHEET C-03) AND UTILITY DEMOLITION PLAN (SHEET C-04) FOR EXTENT OF DEMOLITION WORK REQUIRED.
12. ONLY FACE OF EXISTING AND NEW CURB/GUTTER IS SHOWN FOR PLAN CLARITY.

DHA #: 1428

PARCEL 234

LOT 38

DMJM
DANIEL, MANN, JOHNSON & MENDENHALL
1120 G Street, NW Suite 900
Washington, DC 20036
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TRW

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DISTRICT OF COLUMBIA

PREPARED FOR: OFFICE OF THE CHIEF TECHNOLOGY OFFICER - OCTO

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DELON HAMPTON & ASSOCIATES
Civil Engineer
8403 Colesville Road, Ste. 900
Silver Spring, MD 20910
Phone: 301-565-6100
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LEE & LIU ASSOCIATES, INC.
Landscape Architect
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Phone: 202-464-6488
Fax: 202-464-6433

HINMAN CONSULTING ENGINEERS
Wind Consultant
399 Bridge Street, Suite 307
San Francisco, CA 94105
Phone: 415-421-4433
Fax: 415-421-4447

Registration

PUD SUBMISSION	12/21/01
SD SUBMISSION	9/27/01

No.	Description	Date

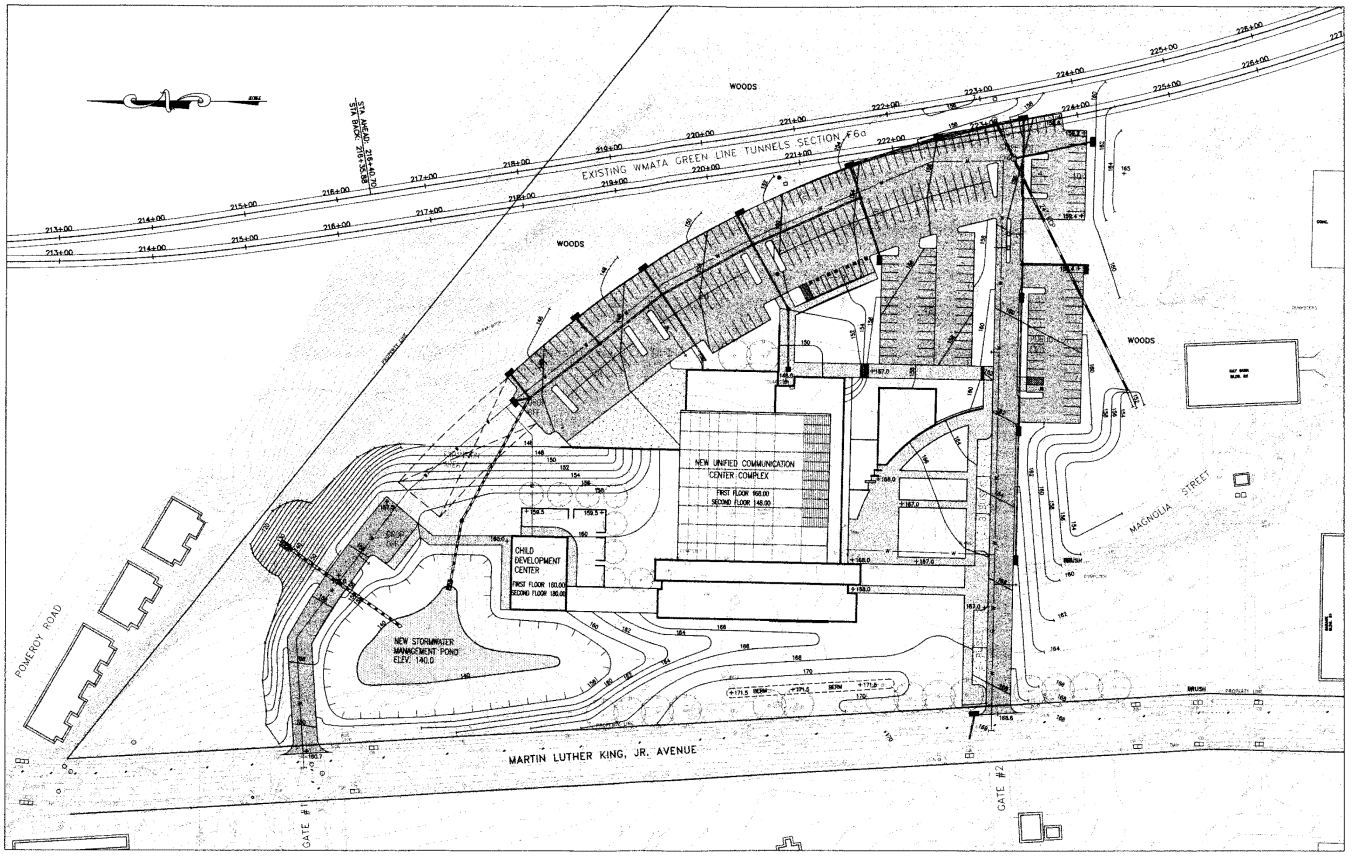
Scale:	AS SHOWN
Project No:	314700
Drawn By:	FDW
Checked By:	JRL

Key Plan

SITE IMPROVEMENTS PLAN

C-05

SEPTEMBER 27, 2001



GRADING PLAN

SCALE: 1"=40'

GRADING LEGEND

- 135 — EXISTING CONTOUR
- 160 — PROPOSED CONTOUR
- +171.5 — EXISTING SPOT ELEVATION
- + 160.00 — PROPOSED SPOT ELEVATION

GRADING NOTES

1. TIES TO EXISTING PAVEMENT AREAS SHALL BE SMOOTH CONSISTENT TRANSITIONS. NO ABRUPT CHANGE IN LINE AND /OR GRADE WILL BE PERMITTED.
2. POSITIVE DRAINAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PONDING OR STANDING WATER WILL NOT BE PERMITTED.
3. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

DHA #: 1428

PARCEL 234

LOT 38

SEPTEMBER 27, 2001

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Fax: 202-466-4332

HINMAN CONSULTING ENGINEERS
Shoot Consultant
290 Division Street, Suite 307
San Francisco, CA 94105
Phone: 415-621-4433
Fax: 415-621-4447

Registration

PUD SUBMISSION	12/21/01
SD SUBMISSION	9/27/01

No.	Description	Date

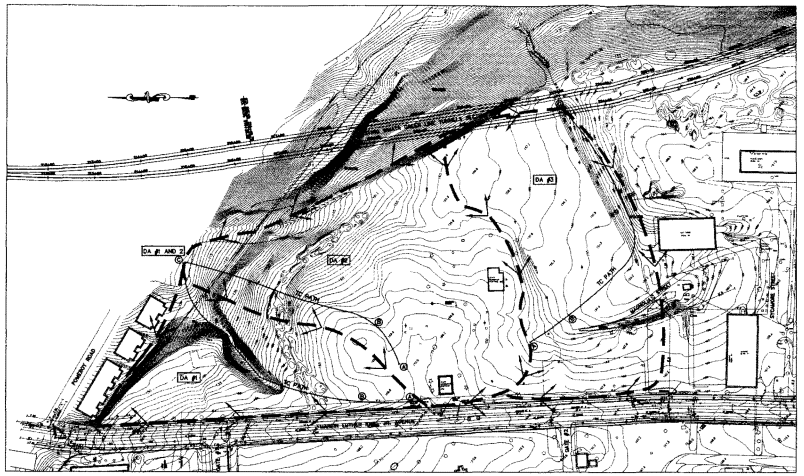
Scale:	AS SHOWN
Project No:	314700
Drawn By:	FDW
Checked By:	JRL

Key Plan

GRADING PLAN

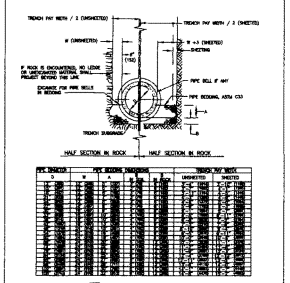
C-06

Sheet


DA #1 AND 2
DA #3
DA #4
DA #5
HARRY ROAD
FENCE
FENCE
FENCE

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM — 35.61 PIPE, ETC. — CONCRETE PIPE SEWER TRENCH LAYING CONDITION

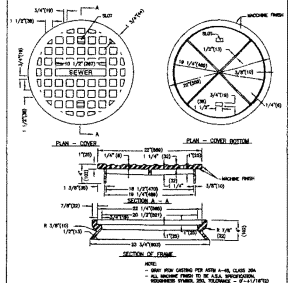


PIPE DIAMETER	PIPE BEDDING THICKNESS				TRENCH PAY WIDTH	
	A		B		UNSHEETED	SHEETED
	IN	MM	IN	MM		
8"	4"	100	8"	200	2'-0"	2'-6"
10"	4"	100	8"	200	2'-0"	2'-6"
12"	4"	100	8"	200	2'-0"	2'-6"
15"	4"	100	8"	200	2'-3"	2'-9"
18"	4"	100	8"	200	2'-6"	3'-0"
21"	4"	100	8"	200	2'-9"	3'-3"
24"	4"	100	8"	200	3'-0"	3'-6"
27"	4"	100	8"	200	3'-3"	3'-9"
30"	4"	100	8"	200	3'-6"	4'-0"
33"	4"	100	8"	200	3'-9"	4'-3"
36"	4"	100	8"	200	4'-0"	4'-6"
42"	4"	100	8"	200	4'-6"	5'-0"
48"	4"	100	8"	200	5'-0"	5'-6"
54"	4"	100	8"	200	5'-6"	6'-0"
60"	4"	100	8"	200	6'-0"	6'-6"
66"	4"	100	8"	200	6'-6"	7'-0"
72"	4"	100	8"	200	7'-0"	7'-6"

NOTE:
IF NECESSARY TO EXCEED W BELOW A HORIZONTAL PLANE 1'-0"(305) ABOVE TOP OF PIPE SEE SPECIFICATION SECTION 02316.A. C

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

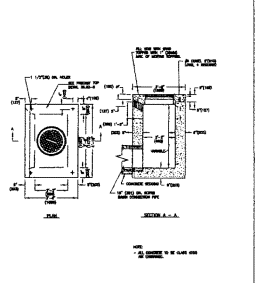
35.6 COLLECTION SYSTEM — 35.62 CATCH BASINS, ETC. — DETAILS – COVER FOR SEWER BASIN TOP AND 24"(610) DIAMETER BASIN TOP – CAST IRON FRAME



NOTE:
- GRAY IRON CASTINGS PER ASTM A-48, CLASS 30A.
- ALL MACHINE FINISH TO BE A.S.A. SPECIFICATION ROUGHNESS SYMBOL 250, TOLERANCE – 0" +1/16"(2)
- THE WORDING "SEWER" OR "STORM" (WHICHEVER SHALL BE USED IN THE DEPRESSION SHOWN IN THE CENTER OF TOP OF COVER AND TO BE FILLED WITH SURFACE OF COVER

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

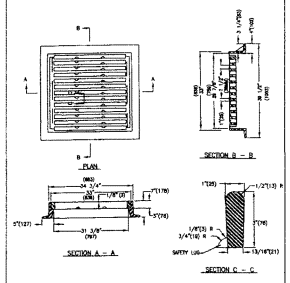
35.6 COLLECTION SYSTEM — 35.62 CATCH BASINS, ETC. — CATCH BASIN WITHOUT CATCHMENT CHAMBER



NOTE:
- ALL CASTINGS TO BE CLASS 40B A.S.T.M.

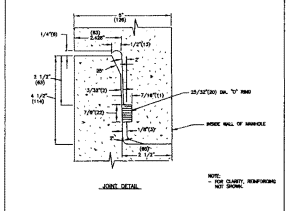
DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM — 35.62 CATCH BASINS, ETC. — GRATE TYPE CATCH BASIN WITH SAFETY GRATE



DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

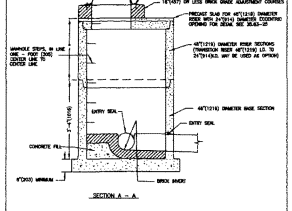
35.6 COLLECTION SYSTEM — 35.63 MANHOLES, ETC. — PIPE RISER JOINT DETAIL 48"(1219) DIAMETER RISER



NOTE:
- FOR CLARITY, REINFORCING NOT SHOWN.

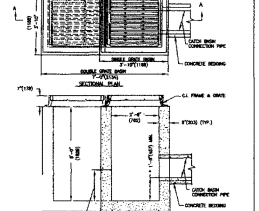
DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM — 35.63 MANHOLES, ETC. — PRECAST CONCRETE MANHOLES 48"(1219) INSIDE DIAMETER SEWERS 10"(254) THRU 21"(533) DIAMETER



DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

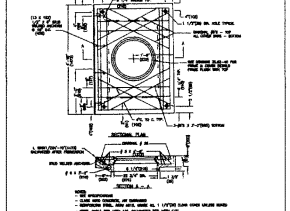
35.6 COLLECTION SYSTEM — 35.62 CATCH BASINS, ETC. — GRATE TYPE CATCH BASIN SAFETY GRATE



NOTE:
- GRAY IRON CASTINGS PER ASTM A-48, CLASS 30A.
- ALL MACHINE FINISH TO BE A.S.A. SPECIFICATION ROUGHNESS SYMBOL 250, TOLERANCE – 0" +1/16"(2)
- ALL CONCRETE TO BE CLASS 4000, AIR ENTRAINED.
- = WITHOUT WATER SEAL

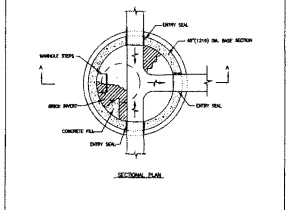
DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM — 33.61 CATCH BASINS, ETC. — PRECAST STANDARD CATCH BASIN TOP



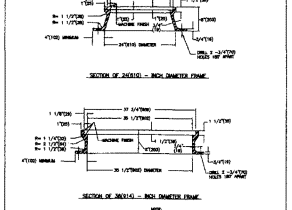
DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM — 35.63 MANHOLES, ETC. — PRECAST CONCRETE MANHOLES 48"(1219) INSIDE DIAMETER SEWERS 10"(254) THRU 21"(533) DIAMETER



DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

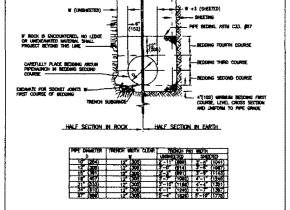
34.8 DISTRIBUTION SYSTEM — 34.84 MANHOLES, ETC. — DETAILS OF 24(610) – INCH AND 36(914) – INCH DIAMETER CAST IRON FRAMES



NOTE:
- GRAY IRON CASTINGS PER ASTM A-48, CLASS 30A.
- ALL MACHINE FINISH TO BE A.S.A. SPECIFICATION ROUGHNESS SYMBOL 250, TOLERANCE – 0" +1/16"(2)

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM — 35.61 PIPE, ETC. — POLYVINYL CHLORIDE (PVC) PIPE SEWER TRENCH LAYING CONDITION

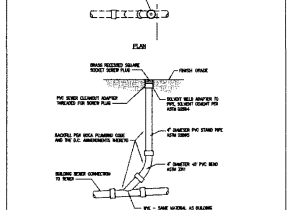


PIPE DIAMETER	TRENCH WIDTH CLASS		TRENCH PAY WIDTH	
			UNSHEETED	SHEETED
4" (100)	I or II	(600)	2'-0"	(1067)
6" (150)	I or II	(600)	2'-0"	(1067)
8" (200)	I or II	(600)	2'-0"	(1067)
10" (250)	I or II	(600)	2'-0"	(1067)
12" (300)	I or II	(600)	2'-0"	(1067)
15" (375)	I or II	(600)	2'-3"	(1143)
18" (450)	I or II	(600)	2'-6"	(1219)
21" (525)	I or II	(600)	2'-9"	(1295)
24" (600)	I or II	(600)	3'-0"	(1372)
27" (675)	I or II	(600)	3'-3"	(1448)
30" (750)	I or II	(600)	3'-6"	(1524)
33" (825)	I or II	(600)	3'-9"	(1600)
36" (900)	I or II	(600)	4'-0"	(1676)

NOTE: IF NECESSARY TO EXCEED W BELOW A HORIZONTAL PLANE 1'-0" (305) ABOVE TOP OF PIPE SEE SPECIFICATION SECTION 02316.A. C

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.7 SERVICE CONNECTION — 35.71 BUILDING SEWERS — BUILDING SEWER CONNECTION CLEANOUT



DMJM
DANIEL, MANN, JOHNSON, & MENDENHALL
1111 19th Street Suite 600
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Registration

No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

Scale: AS SHOWN
Project No: 31.4700
Drawn By: FDW
Checked By: JRL

Key Plan

UTILITY DETAILS I

C–08

DHA #: 1428

PARCEL 234

LOT 38

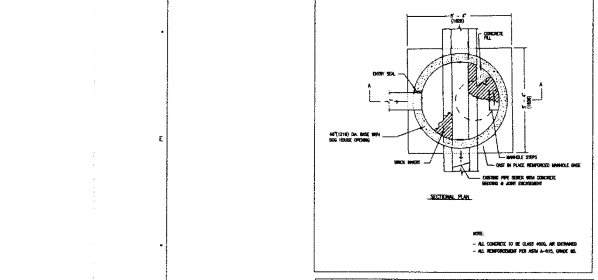
SEPTEMBER 27, 2001

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DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM
35.63 MANHOLES, ETC.

PRECAST CONCRETE MANHOLE RISER 48"(1219) I.D. OVER EXISTING SEWERS 10"(254) DIA. THRU 21"(533) DIA. WITH CAST-IN-PLACE REINFORCED BASE

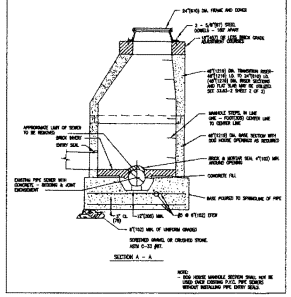


NOTE:
- ALL CONCRETE TO BE CLASS 4000, AIR ENTRAINED
- ALL REINFORCEMENT PER ASTM A-615, GRADE 60.

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM
35.63 MANHOLES, ETC.

PRECAST CONCRETE MANHOLE RISER (48" I.D.) (1219) OVER EXISTING SEWER 10"(254) DIAMETER THRU 21"(533) DIAMETER WITH CAST IN PLACE REINFORCED CONCRETE BASE

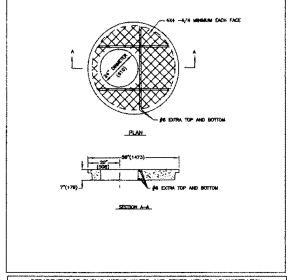


NOTE:
- 3000 GRADE MANHOLE SECTION SHALL NOT BE USED WHERE EXISTING PIPE SEWER DEPTH EXCEEDS 15 FEET BELOW GRADE.

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM
35.63 MANHOLES, ETC.

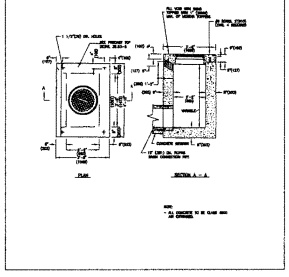
PRECAST SLAB 48"(1219) DIAMETER MANHOLE RISER WITH 24"(610) DIAMETER ECCENTRIC OPENING



DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

35.6 COLLECTION SYSTEM
35.62 CATCH BASINS, ETC.

CATCH BASIN WITHOUT CATCHBASIN CHAMBER

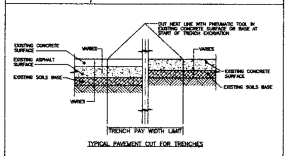


NOTE:
- ALL CONCRETE TO BE CLASS 4000 AIR ENTRAINED

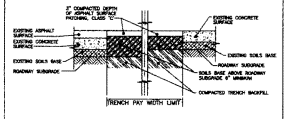
DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

51.0 STANDARDS
51.6 SPECIFICATIONS AND CONTRACTS

TYPICAL PAVEMENT CUT AND REPAIR SEWER / WATER MAIN TRENCHES



TYPICAL PAVEMENT CUT FOR TRENCHES

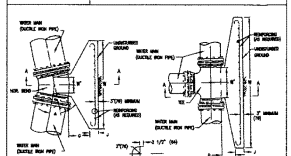


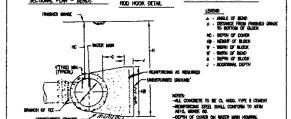
ELEVATION

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

34.6 COLLECTION SYSTEM
34.61 MANHOLES, ETC.

CONCRETE THRUST BLOCK FOR HORIZONTAL PIPE BENDS AND TEES





ROD HOOK DETAIL

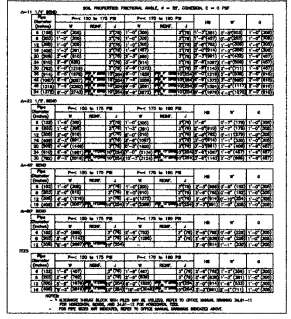
LEGEND
A = ANGLE OF BEND
B = WIDTH OF BLOCK
D = DEPTH OF BLOCK
H = HEIGHT OF BLOCK
W = WIDTH OF BLOCK
d = DEPTH OF BEND
c = ADDITIONAL DEPTH

NOTE:
- USE CONCRETE TO BE CL. 4000, TYPE II CEMENT
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- DEPTH OF COVER TO BOTTOM OF BLOCK SHALL BE 4'-0" MINIMUM.
- SEE VERSION OF 36W, 12D, ETC.
- TEST PRESSURE, PER SPECIFICATIONS 02510

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

34.6 DISTRIBUTION SYSTEM
34.61 PIPES, ETC.

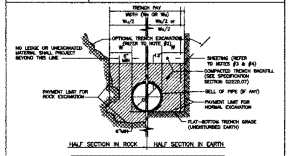
CONCRETE THRUST BLOCK FOR HORIZONTAL PIPE BENDS AND TEES



DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

34.0 COLLECTION SYSTEM
34.02 MANHOLES, ETC.

DUCTILE IRON WATER MAIN PIPE LAYING CONDITION TYPE 2A (TRENCH INSTALLATION)



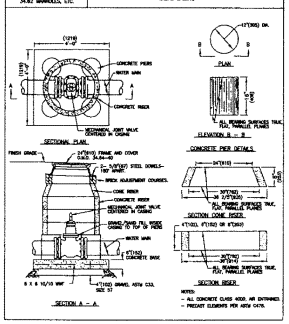
TRENCH PAY WIDTH (No OR Wc)		
PIPE DIAMETER	SHEETED EXCAVATION	UNSHEETED EXCAVATION
D	Wc	Wc
8"	2' – 10"	2' – 4"
12"	3' – 0"	2' – 6"
16"	3' – 4"	2' – 10"
20"	3' – 10"	3' – 2"
24"	4' – 2"	3' – 6"
30"	4' – 10"	4' – 0"
36"	5' – 1"	4' – 3"
42"	5' – 7"	4' – 7"
48"	6' – 1"	5' – 0"

NOTES:
1. PIPE LAYING CONDITION TYPE 2A (TRENCH INSTALLATION) SHALL BE USED FOR ALL WATER MAIN CONSTRUCTION ONLY WHEN SPECIFIED OR SHOWN ON DRAWINGS.
2. TRENCHES MAY BE EXCAVATED WIDER THAN THE TRENCH PAY WIDTH (We OR Wc) ABOVE A LINE 1' – 0" FROM TOP OF PIPE, AT CONTRACTOR'S OPTION AND AT NO ADDITIONAL COST TO THE DISTRICT.
3. IF EXCAVATION BELOW NORMAL DEPTH OF WATER MAIN INSTALLATION (DEPTHS GREATER THAN 4-0 FEET) IS REQUIRED, EXCAVATION SUPPORT SYSTEMS MAY BE ORDERED OR THEIR DEVELOPMENT DIRECTED BY CONTRACTORS OPTION. COSTS UNDER THIS OPTION SHALL BE PART OF THE UNIT PRICE BID FOR EXCAVATION.
4. SHEETING IF USED, IN ALL CASES SHALL BE REMOVED IN CONJUNCTION WITH THE BACKFILLING OPERATION, HOWEVER, IF ORDERED IN WRITING, SHEETING MAY BE CUT-OFF AND LEFT IN PLACE BELOW A LINE 1' – 0" ABOVE THE TOP OF PIPE, UNLESS OTHERWISE INDICATED OR AS DIRECTED BY THE ENGINEER.

DEPARTMENT OF PUBLIC WORKS WATER AND SEWER UTILITY ADMINISTRATION

34.6 COLLECTION SYSTEM
34.62 MANHOLES, ETC.

VALVE CASING



NOTES:
- ALL CONCRETE CLASS 4000, AIR ENTRAINED
- PRECAST ELEMENTS PER ASTM C478.

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Registration

No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

Scale: AS SHOWN
Project No: 314700
Drawn By: FDW
Checked By: JRL

Key Plan

DHA #: 1428

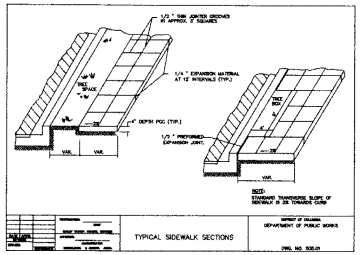
PARCEL 234
LOT 38

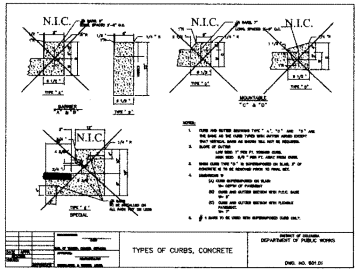
UTILITY DETAILS II

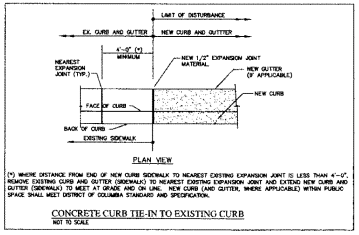
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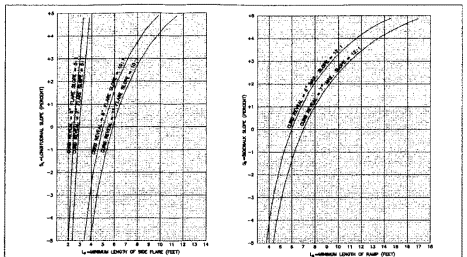
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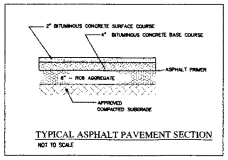
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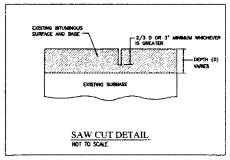


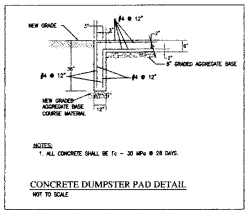


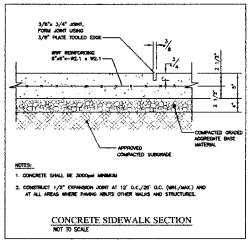












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Registration

No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

Scale:	AS SHOWN
Project No:	314700
Drawn By:	FDW
Checked By:	JRL

Key Plan

SITE DETAILS

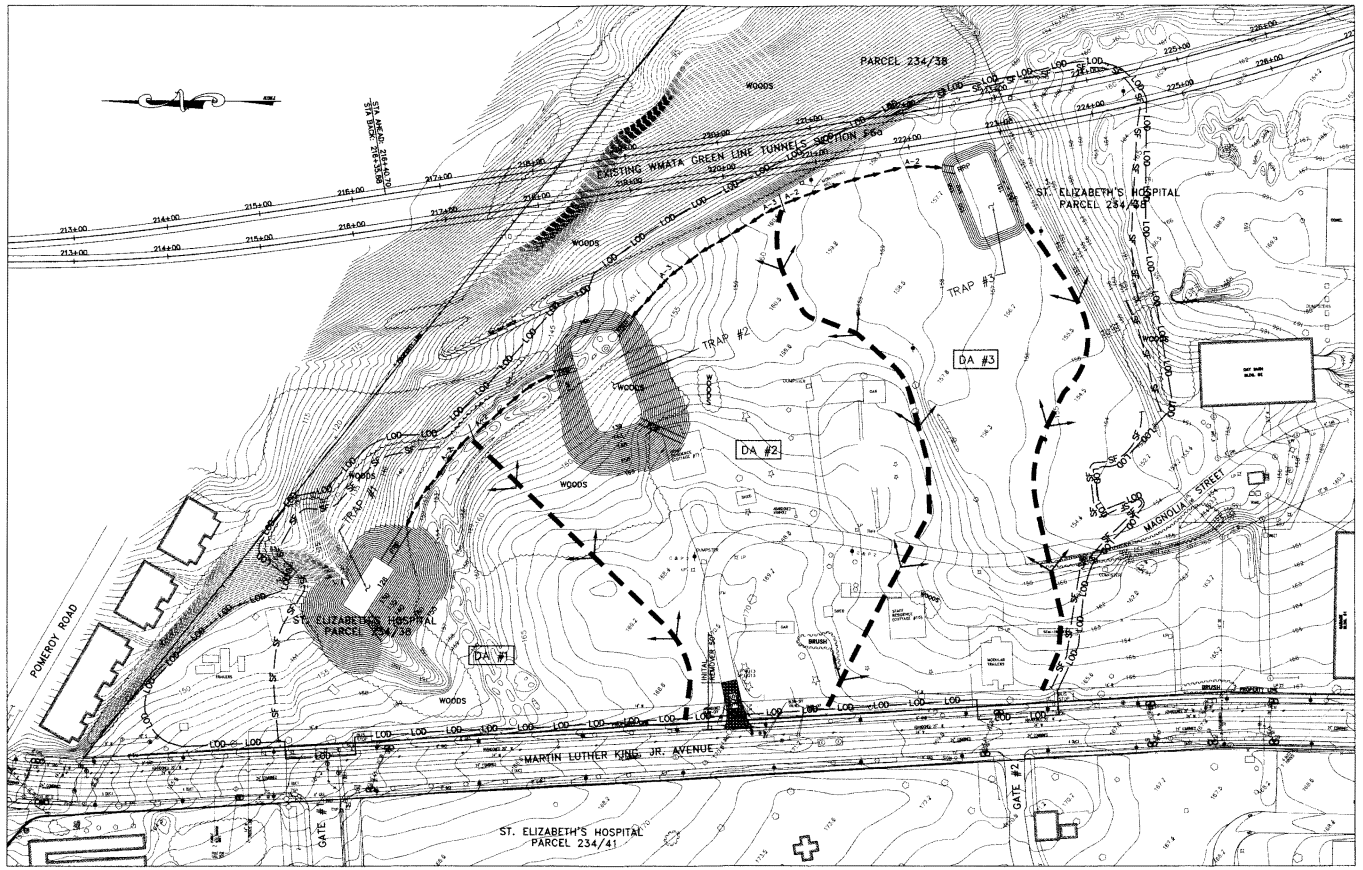
DHA #: 1428

PARCEL 234

LOT 38

C-10

SEPTEMBER 27, 2001



SEQUENCE OF OPERATION

1. NOTIFY SEDIMENT & EROSION INSPECTOR AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
2. REMOVE ANY ITEMS INDICATED ON PLAN AS SHOWN INITIAL REMOVAL ONLY.
3. PROVIDE STABILIZED CONSTRUCTION ENTRANCES SHOWN ON THE PLAN.
4. REMOVE BUILDING #80. INSTALL SEDIMENT TRAP #2.
5. INSTALL SILT FENCES, TREE PROTECTION SHOWN ON THE PLAN.
6. INSTALL TRAP #1, & #3 AND EARTH DIKE SHOWN ON THE PLAN.
7. START TO WORK ON DEMOLITION BASED ON SITE DEMOLITION PLAN AND UTILITY DEMOLITION PLAN.
8. SEE ROUGH GRADING SEDIMENT & EROSION CONTROL PLAN ROUGH GRADING.

EROSION AND SEDIMENT CONTROL LEGEND

- A-2/A-3 — EARTH DIKE
- TP — TP — TP — TREE PROTECTION
- SF — SF — SF — SILT FENCE
- LOD — LOD — LIMITS OF DISTURBANCE
- DRAINAGE DIVIDER
- RRP — RIP-RAP INFLOW PROTECTION
- IP — INLET PROTECTION
- CIP — CURB INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE

INITIAL SEDIMENT & EROSION CONTROL PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

SEDIMENT TRAP SCHEDULE

NO.	TYPE	DRAINAGE AREA (AC)	STORAGE REQUIRED WET (CF)	STORAGE REQUIRED DRY (CF)	STORAGE PROVIDED WET (CF)	STORAGE PROVIDED DRY (CF)	BOTTOM ELEV. (FT)	CLEAN OUT ELEV. (FT)	WET STORAGE ELEV. (FT)	CREST ELEV. (FT)	BOTTOM DIMENSION (FT)
TRAP NO. 1	II	2.0	3600	3600	4020	3955	126.00	126.50	128.00	129.50	63x26
TRAP NO. 2	II	4.5	9000	9000	9112.79	10462.19	139.00	139.75	128.00	144.00	107x56
TRAP NO. 3	II	3.0	5400	5400	5961.35	7089.81	151.00	151.25	152.50	154.00	86x42

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No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

Scale: AS SHOWN
Project No: 31470.0
Drawn By: FDW
Checked By: JRL

Key Plan

INITIAL SEDIMENT AND EROSION CONTROL PLAN

C-11

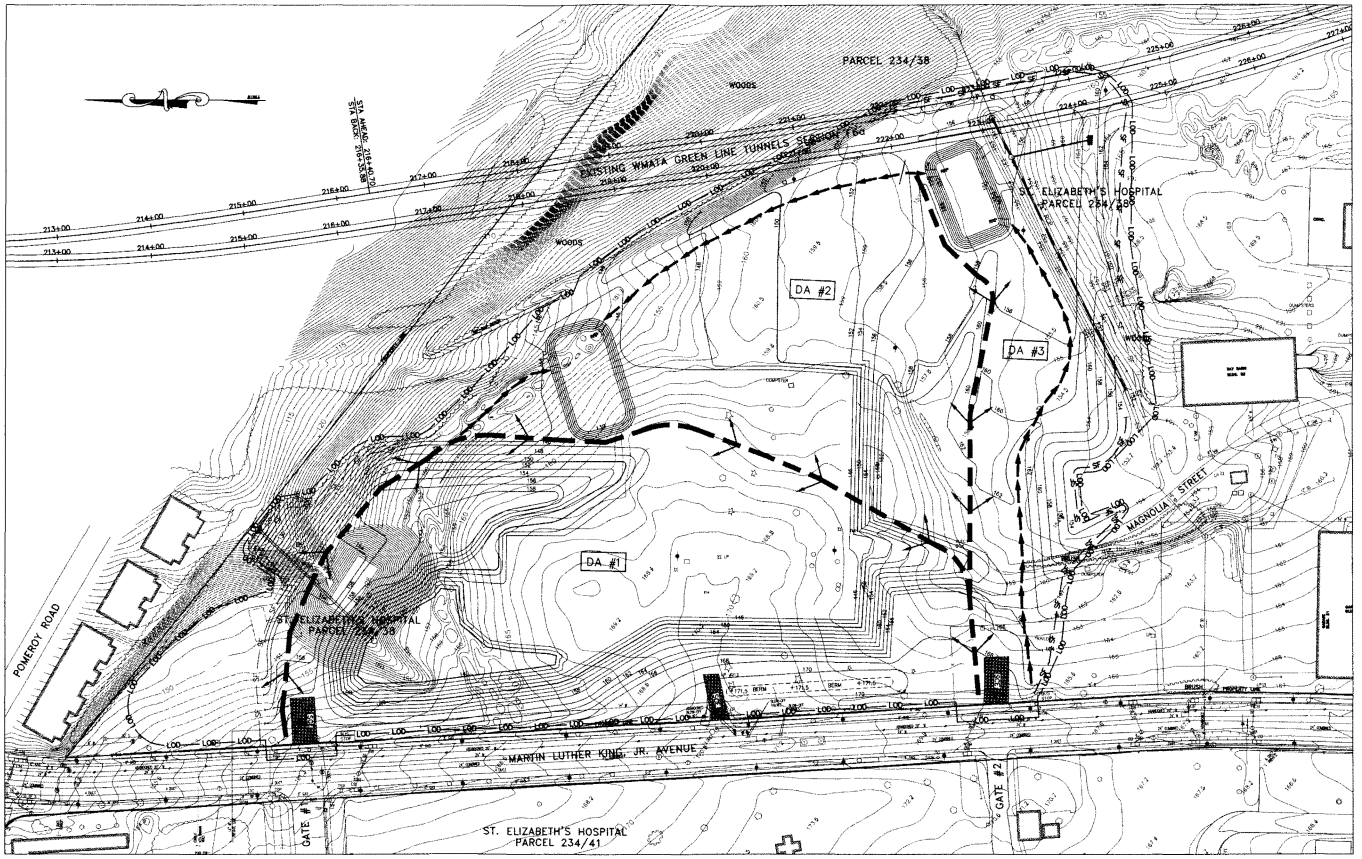
DHA #: 1428

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LOT 38

SEPTEMBER 27, 2001

ELECTRONIC FILES:
DISCLAIMER FILES:
Drawing No. Sheet 1



EROSION AND SEDIMENT CONTROL LEGEND

- EARTH DIKE
- TREE PROTECTION
- SILT FENCE
- LIMITS OF DISTURBANCE
- DRAINAGE DIVIDER
- RIP-RAP INFLOW PROTECTION
- INLET PROTECTION
- CURB INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE

ROUGH GRADING & EROSION CONTROL PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

SEDIMENT TRAPS SCHEDULE

NO.	TYPE	DRAINAGE AREA (AC)	STORAGE REQUIRED		STORAGE PROVIDED		ELEVATION				SIZE			
			WET (CF)	DRY (CF)	WET (CF)	DRY (CF)	BOTTOM (FT)	CLEAN OUT (FT)	WET STORAGE (FT)	CREST (FT)	BOTTOM (FT)	BARREL (IN)	RISER (IN)	TRASH RACK (IN)
TRAP NO. 1	I	3.35	7200	7200	11589.38	10966.32	140.00	140.50	141.00	143.00	120x70	21	21	36
TRAP NO. 2	II	3.25	7200	7200	9112.79	10462.09	139.00	139.50	140.50	143.00	107x56	N/A	N/A	N/A
TRAP NO. 3	II	1.6	3600	3600	5961.35	7089.81	151.00	151.25	152.50	154.00	86x42	N/A	N/A	N/A

SEQUENCE OF CONSTRUCTION

1. SEE INITIAL SEDIMENT & EROSION CONTROL PLAN.
2. CONSTRUCT TWO ADDITIONAL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN THIS PLAN.
3. CONSTRUCT 24" RCC STORM DRAIN PIPE AS SHOWN ON THIS PLAN PRIOR TO START ROUGH GRADING .
4. CONVERT SEDIMENT TRAPS:
   a. CONVERT STONE OUTLET TRAP #1 FROM INITIAL SEDIMENT & EROSION CONTROL PLAN TO PIPE OUTLET TRAP AS SHOWN ON THIS PLAN.
   b. CONVERT AND/OR MAINTAIN STONE OUTLET TRAP #2 & #3 FROM INITIAL SEDIMENT AND EROSION CONTROL PLAN AS SHOWN ON THIS PLAN.
5. MAINTAIN SILT FENCE AND TREE PROTECTION DEVICE FROM INITIAL SEDIMENT & EROSION CONTROL PLAN AS SHOWN ON THIS PLAN.
6. AS GRADING PROCEEDS, CONTRACTOR SHALL ADJUST THE LOCATION GRADE OF ALL EARTH DIKE.
7. START ROUGH GRADING AND RELATED CONSTRUCTION.
8. SEE FINAL SEDIMENT & EROSION CONTROL PLAN.

DHA #: 1428

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Registration

No.	Description	Date
	PUD SUBMISSION	12/21/01
	ED SUBMISSION	9/27/01

Scale: AS SHOWN
Project No: 31470D
Drawn By: FDW
Checked By: JRL

Key Plan

ROUGH GRADING AND SEDIMENT AND EROSION CONTROL PLAN

C-12

X-REFERENCE FILES:
X-REFERENCE FILES:
DRAWING FILE NAME:
SEPTEMBER 27, 2001

STANDARD SYMBOLS

EARTH DIKE — A-2 / B-3

STRAW BALE DIKE — SBD

SILT FENCE — SF — SF

TEMPORARY SWALE — A-2 / B-3

STABILIZED CONSTRUCTION ENTRANCE — SCE

GRADE STABILIZATION STRUCTURE — DSC-3 / PSD-13

PIPE SLOPE DRAIN — PSD-12

PERIMETER DIKE/SWALE — PD/S-1

CURB INLET PROTECTION — CIP

DIVERSION

GRASSED WATERWAY

LINED WATERWAY

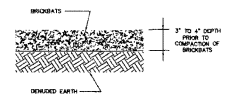
ROCK OUTLET PROTECTION — ROP

SUBSURFACE DRAIN

JERSEY BARRIER

TURBIDITY CURTAIN — TBC

BRICKBAT GROUND COVER



STANDARDS AND SPECIFICATIONS

DEFINITION
TEMPORARY GROUND COVER CONSISTING OF BROKEN BRICK (1/2 PIECE OR SMALL) PLACED OVER DENUDED EARTH.

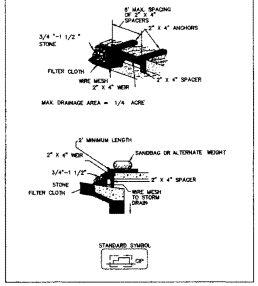
PURPOSE
BRICKBATS PROVIDE A TEMPORARY GROUND COVER OVER DENUDED URBAN EARTH TO PREVENT THE TRANSPORTATION OF SEDIMENT FROM THE SITE.

CONDITIONS WHEN PRACTICE APPLIES
BRICKBATS MAY BE USED ON ANY SITE IN NEED OF TEMPORARY GROUND COVER.

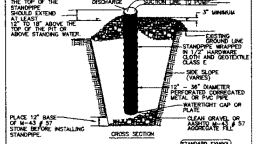
DESIGN CRITERIA
THE BRICKBATS SHALL BE PLACED TO A DEPTH OF 3 INCHES TO 4 INCHES COVERING THE DENUDED EARTH ON THE SITE, THEN COMPACTED AND LEVELLED.

CURB INLET PROTECTION

(COG OR COS INLETS)



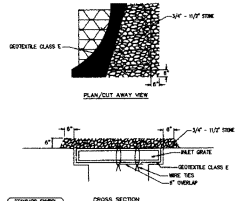
SUMP PIT DETAIL



CONSTRUCTION SPECIFICATIONS

1. PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE. THEN WRAPPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE CLASS C. THE PERFORATIONS SHALL BE 1/2" X 6" SLITS OR 1" DIAMETER HOLES.
3. A BASE OF FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR #57 STONE 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 THE SAME FILTER MATERIAL.
4. THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT OR THE RISER CREST ELEVATION (BASIN DEWATERING ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.

DETAIL 23B – AT GRADE INLET PROTECTION



CONSTRUCTION SPECIFICATIONS

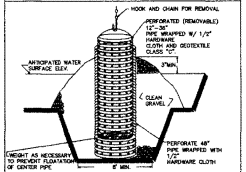
1. LIFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS THEN SET GRATE BACK IN PLACE.
2. PLACE 3/4" TO 1 1/2" STONE, 4"-8" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION.

CURB INLET PROTECTION NOTES

CONSTRUCTION SPECIFICATIONS

1. ATTACH A CONTINUOUS PIECE OF WIRE MESH 30" MIN. WIDTH BY THROAT LENGTH PLUS 4" TO THE 2"x4" WIER (MEASURING THROAT LENGTH) PLUS 2' AS SHOWN ON THE STANDARD DRAWING
2. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2"x4" WIER.
3. SECURELY NAIL THE 2"x4" WIER TO A 8' LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAX. 4' APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MIN. 2' LENGTHS OF 2"x4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS). THE 2"x4" SANDBAGS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MIN. 1' (0.31 m) BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE 1/2"x1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4"x1 1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT FLOW TO THE INLET.

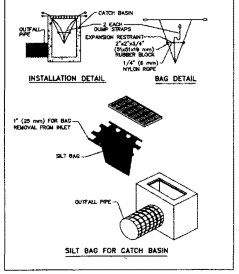
REMOVABLE PUMPING STATION DETAIL



CONSTRUCTION SPECIFICATIONS

1. THE OUTER PIPE SHOULD BE 48" DIA. OR SMALL IN ANY CASE BE AT LEAST 4" GREATER IN DIA. THAN THE CENTER PIPE. THE OUTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH TO PREVENT BACKFILL MATERIAL FROM ENTERING THE PERFORATIONS.
2. AFTER INSTALLING THE OUTER PIPE, BACKFILL AROUND OUTER PIPE WITH 2" AGGREGATE OR CLEAN GRAVEL.
3. THE INSIDE STAND PIPE (CENTER PIPE) SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 36" DIAMETER CORRUGATED OR PVC PIPE. THEN WRAPPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE CLASS "C". THE PERFORATIONS SHALL BE 1" DIA. HOLES OR 1/2" X 6" SLITS ON 6" CENTERS. THE CENTER PIPE SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH FIRST, THEN WRAPPED AGAIN WITH GEOTEXTILE CLASS C.
4. THE CENTER PIPE SHOULD EXTEND 12" TO 18" ABOVE THE ANTICIPATED WATER SURFACE ELEVATION OR RISER CREST ELEVATION WHEN DEWATERING A BASIN.

DETAIL – SILT BAG FOR CATCH BASIN



NOTES – SILT BAG FOR CATCH BASIN

SILT BAG FOR INLET SEDIMENT CONTROL

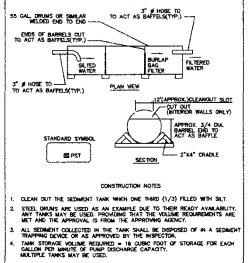
I. INSTALLATION
1. SIZE SILT BAG TO FIT ANY SIZE OR SHAPE CATCH BASIN
2. REMOVE LID FROM THE CATCH BASIN.
3. DROP IN THE SILT BAG AND REPLACE THE LID
4. COVER THE FLAPS WITH DIRT.

II. SPECIFICATIONS

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS. (120.4 KG.)
GRAB TENSILE ELONGATION	ASTM D-4632	30%
PUNCTURE	ASTM D-4833	135 LBS. (61.4 KG.)
MULLEN BURST	ASTM D-3786	450 P.S.I. (3105.3 kPa)
TRAPEZOID TEAR	ASTM D-4533	45 LBS. (9.9 KG.)
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/SQ. FT/MIN. (8148.5 L/SQ.M. /MIN)
PERMITTIVITY	ASTM D-4491	1.5 SEC-1

III. MAINTENANCE
1. ONCE SILT BAG IS ONE HALF FULL WITH SILT, THE SILT BAG MUST BE CLEANED OUT AND REINSTALLED.
2. REMOVE THE SILT BAG, BY LIFTING LONG SIDE FLAPS WITH LIFTING DEVICE.
3. EACH SILT BAG SHOULD BE INSPECTED AFTER EACH MAJOR RAIN EVENT.
4. IF THERE HAVE BEEN NO MAJOR EVENTS, EACH SILT BAG SHOULD BE INSPECTED PERIODICALLY—EVERY 2–3 WEEKS.
5. WHEN THE SILT BAG HAS COLLECTED 1 (305 MM) TO 1 1/2 FEET (457 MM) OF SEDIMENT, THE SILT BAG SHOULD BE EMPTIED.

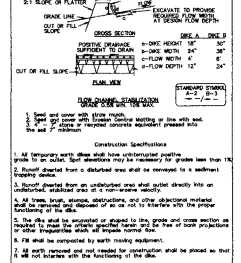
PORTABLE SEDIMENT TANK DETAIL



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 SILT TRAP VOLUME REQUIREMENTS ARE MET AND THE APPROVAL IS FROM THE APPROVING AGENCY.
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 = 18 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. MULTIPLE TANKS MAY BE USED.

DETAIL 1 – EARTH DIKE



1. Seed and cover with straw mulch, or line with sod.
2. Sod and cover with Erosion Control Matting or line with sod.
3. Use jute, sisal or recycled cornstalk equivalent pressed into the soil 3" minimum

Construction Specifications

1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
4. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and destroyed or as not to interfere with the proper functioning of the dike.
5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and to be free of bank projections or other irregularities which will impede normal flow.
6. Fill shall be compacted by earth moving equipment.
7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
8. Inspection and maintenance must be provided periodically and after each rain event.

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DHA #: 1428

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No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

Scale: AS SHOWN
Project No: 314700
Drawn By: FDW
Checked By: JRL

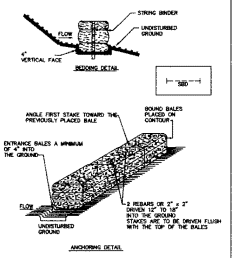
Key Plan

EROSION AND SEDIMENT CONTROL DETAILS I

C-13

A-REFERENCE FACES
A-REFERENCE FACES
Drawing File Name:
SEPTEMBER 27, 2001

STRAW BALE DIKE DETAIL



STREET SWEEPING

1. STREETS WITHIN ONE MILE (1.6km) SHALL BE INSPECTED DAILY. ANY DROPPED SOIL, DUST AND/OR DEBRIS SHALL BE REMOVED.
2. VACUUM TYPE STREET CLEANER SHALL BE USED TO EFFECTIVELY REMOVE TOTAL DUST AND DIRT ON PAVED SURFACES.
3. ROADS SHALL BE SWEPT ON A WEEKLY BASIS (MINIMUM) DURING ALL ON AND OFF SITE HAULING OPERATIONS FOR UP TO ONE MILE (1.61km) ALONG HAUL ROUTES.

STRAW BALE DIKE

CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE, ON THE CONTOUR, AND IN A ROW WITH THE ENDS OF EACH BALE TIGHTLY ABUTTING THE ADJACENT BALES.

2. EACH BALE SHALL BE ENTRENCHED IN THE SOIL A MINIMUM OF 4" 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 12" TO 16" INTO THE GROUND. 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 TOP OF THE BALE.

4. STRAW BALE DIKES SHALL BE INSPECTED FREQUENTLY AND AFTER EACH RAIN EVENT AND MAINTENANCE PERFORMED AS NECESSARY.

5. ALL BALES SHALL BE REMOVED WHEN THE SITE HAS BEEN STABILIZED. THE TRENCH WHERE THE BALES WERE LOCATED SHALL BE GRADED FLUSH AND STABILIZED.

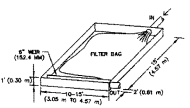
STANDARDS AND SPECIFICATIONS FOR DUST CONTROL

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE SO 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. ADJUSTABLE 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 (137.8kPa), 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 THE SITE BOUNDARIES.

SILT BAG FOR PUMPED DIRTY WATER

II. SPECIFICATIONS FOR SILT BAG 10'x15'(3.05 m x 4.57 m), 12 1/2'x15'. (3.81 m x 4.54 m), AND 15'x15' (4.54 m x 4.54 m) SIZES.

PROPERTIES	TEST METHOD	UNITS / METRIC		WOVEN
WEIGHT	ASTM D-3776	OZ./YD. (gm/m)		8 (271.8)
GRAB TENSIL	ASTM D-4632	LBS. (kg)		300 (136.1)
PUNCTURE	ASTM D-4833	LBS. (kg)		120 (54.5)
FLOW RATE	ASTM D-4491	GAL/MIN./FT²/(l/min./m²)		AS (1628.7)
PERMITTIY	ASTM D-4491	SEC.		0.05
UV RESISTANCE	ASTM D-4355	%		89



SILT BAG FOR PUMPED DIRTY WATER

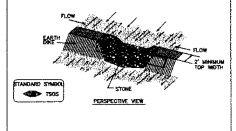
I. INSTALLATION/USE

1. UNFOLD THE SILT BAG AND SIT INSIDE THE FABRICATED BOX (WOOD, METAL, OR PLASTIC).
2. INSERT PUMP DISCHARGE HOSE INTO HANDY SEAM-IN SPOUT AND SECURE WITH THE ATTACHED STRAPS.
3. CONNECT OUTFALL PIPE OR HOSE TO THE OUTLET PIPE OF BOX AND RUN TO THE NEAREST CATCH BASIN.
4. PUMP DIRTY WATER INTO BAG. THE BAG COLLECTS THE SILT AS THE CLEAN WATER GENTLY FILTERS OUT FROM ALL SIDES.

II. MAINTENANCE

1. REPLACE THE SILT BAG AFTER IT IS FILLED WITH SILT.

DETAIL 19 - STONE OUTLET STRUCTURE



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DETAIL 19 - STONE OUTLET STRUCTURE

Construction Specifications

1. Crushed stone shall be used. Gravel may be used if crushed stone is not available. The stone shall be 2"-3" in size.
2. The crest of the stone dike shall be at least 6" lower than the lowest elevation of the top of the earth dike and shall be level.
3. The stone outlet structure shall be embedded into the soil a minimum of 6".
4. The minimum length of the crest of the stone outlet structure shall be 8'.
5. The stone outlet structure shall be inspected after each rain. Stone shall be replaced when the structure ceases to function and ponding results.
6. The baffle board shall be extended one foot into the dike, staked and embedded 6" into the existing ground.
7. The drainage area to this structure shall be less than 1/2 acre.

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Registration

No.	Description	Date
PUD SUBMISSION		12/21/01
SD SUBMISSION		9/27/01

Scale: AS SHOWN
Project No: 31470
Drawn By: FDW
Checked By: JRL

Key Plan

EROSION & SEDIMENT CONTROL DETAILS II

C-14

DMJM

X-REFERENCE FILE(S):
X-REFERENCE FILE(S):
DRAWING FILE NAME:

SEPTEMBER 27, 2001

STANDARD EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL MEASURES 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 SITE.
3. ALLEY AND/OR STREETS/SIDEWALKS SHALL BE SWEPT CLEAN AT ALL TIMES DURING DEMOLITION, EXCAVATION AND CONSTRUCTION.
4. ALL CATCH BASINS AND DRAIN AREAS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.
5. IF ANY CATCH BASINS OR DRAINS BECOME CLOGGED AS A RESULT OF DEMOLITION, EXCAVATION OR CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS CLEANING.
6. WHEN SEDIMENT TRAP/SEDIMENT TANK HAS REACHED 67% CAPACITY, CLEANING OUT OF SAME IS REQUIRED.
7. ANY STOCKPILING, REGARDLESS OF LOCATION SHALL BE STABILIZED AND COVERED WITH PLASTIC OR CANVAS, AFTER ITS ESTABLISHMENT AND FOR DURATION OF THE PROJECT.
8. AFTER RAZING OR DEMOLITION, THERE IS THE NEED FOR GROUNDCOVER TO PREVENT EROSION AND SEDIMENT RUNOFF FROM OCCURRING. SUCH AS APPLYING SEED, SOD, PAVE, BRICKBAT OR MULCH, ETC.
9. THE SITE'S APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY AUTHORIZED OFFICIALS OF DCRA RESPONSIBLE FOR PROJECT.
10. TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED, WITH PERMISSION OF DCRA INSPECTOR, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL

    USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.

    CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES
11. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE DCRA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING AND GROUND COVERS.
12. SEDIMENT REMOVED FROM TRAPS (AND BASINS) SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR TREE-SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SUMP PIT MAY BE USED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT.
13. WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, SEDIMENT BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL GUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS. WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE MUST BE MADE OF WELDED WIRE AND AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN 2 INCHES IN WIDTH AND 4 INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.
14. SEDIMENT CONTROL FOR UTILITY CONSTRUCTION FOR AREAS OUTSIDE OF DESIGNED CONTROLS OR AS DIRECTED BY ENGINEER OR DCRA INSPECTOR:

    (A) CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK.

    (B) EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH.

    (C) TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCHES SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY, UNLESS:

    (D) TEMPORARY SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.

OFF-SITE SPOIL, WASTE, OR BORROW AREAS IN THE DISTRICT OF COLUMBIA OR ON FEDERAL PROPERTY MUST HAVE PRIOR APPROVAL BY DCRA. ALL WASTE AN BORROW AREAS OFF-SITE MUST BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED IN ACCORDANCE WITH THE ORDINANCES AND REGULATIONS OF THE JURISDICATION WHERE THE SPOIL, WASTE, OR BORROW AREA IS LOCATED/STABILIZED.

SITE INFORMATION:

TOTAL AREA OF SITE	9.400	ACRES
AREA DISTURBED	XXX	ACRES
BUILDING AREA	XXX	ACRES
TOTAL CUT	XXX	CU. YDS.
TOTAL FILL	XXX	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	TO BE SUBMITTED BY CONTRACTOR FOR APPROVAL	

VEGETATIVE STABILIZATION

PERMANENT AND TEMPORARY SEEDING, SODDING AND MULCHING

I. SITE PREPARATION

PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, GRASSED WATERWAYS, SEDIMENT BASINS, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND (B) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

II. SEEDBED PREPARATION AND SEEDING APPLICATION

THE TOP LAYER OF SOIL SHALL BE LOOSENED, LIMED AND FERTILIZED BY RAKING, DISCING OR HARROWING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES SLOPES STEEPER THAN 3 TO 1 SHALL HAVE THE TOP 1-3 INCHES OF SOIL LOOSE AND FRIABLE BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES SLOPES STEEPER THAN 3 TO 1 SHALL HAVE THE TOP 1-3 INCHES OF SOIL LOOSE AND FRIABLE BEFORE SEEDING.

APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL CULTIPACKER,SEEDER OR HYDROSEEDER ON A FIRM MOIST SEEDBED.

III. SOIL AMENDMENTS

LIME AND FERTILIZE ACCORDING TO SOIL TESTS. IN LIEU OF SOIL TEST APPLY THE FOLLOWING:

DOLOMITIC LIMESTONE	2 TONS PER ACRE OR 92 LBS/1,000 (PERMANENT AND SODDING SQ.FT.)
FERTILIZER	1 TON PER ACRE OR 46 LB./1,000 (TEMPORARY) 10-10-10 OR EQUIVALENT AT 1,000 LBS PER ACRE OR 23 LBS PER 1,000 SQ. FT. (PERMANENT AND SODDING)

IV. SEDIMENT CONTROL PRACTICES, SEEDING

SEED: "KENTUCKY 31" TALL FESCUE 60 LBS/ACRE OR 1.38 LBS/1,000 SQ. FT AND ITALIAN (ANNUAL) RYEGRASS 40 LBS/ACRE OR .91 LBS/1,000 SQ. FT.

DATES: 1/2 - 10/31 5/1 - 8/14 WITH IRRIGATION.

V. TEMPORARY SEEDING: PER GROWING SEASON

SEED: ITALIAN OR PERENNIAL RYEGRASS 40 LBS/ACRE OR .92 LBS/1,000 SQ. FT.

DATES: 2/1 - 4/30 AND 8/15 - 11/30

SEED: MILLET 40 LBS/ACRE OR 0.92 LBS/1,000 SQ. FT.

DATES: 5/1 - 8/14

VI. PERMANENT SEEDING

A. RESIDENTIAL AND HIGH MAINTENANCE AREAS

1. KENTUCKY BLUEGRASS, "PLUSH", "BIRKA", "PARADE", "VANTAGE", "COLUMBIA", "MERION", "ADELPHI", "SOUTH DAKOTA", "KENBLUE" ANY THREE VARIETIES AT 30 LBS. TO MAKE 90 LBS/ACRE OR 2 LBS./1,000 SQ.FT. AND RED FESCUE - "PENNLAWN" OR JAMESTOWN 10 LBS./1000 SQ.FT.

DATES: 2/1 - 4/30 AND 8/15 - 10/31.

2. "KENTUCKY 31" TALL FESCUE 220-250 LBS/ACRE OR 5-6 LBS./1,000 SQ. FT.

DATES: 2/1 - 10/31 5/1 - 8/14 IRRIGATION REQUIRED.

B. LOW MAINTENANCE AND MINING AREAS

"KENTUCKY 31" TALL FESCUE 40 LBS/ACRE OR 0.92 LBS/1,000 SQ. FT. AND "INTERSTATE" SERICEA LESPEDEZA (INOCULATED)20 LBS/ACRE OR 0.46 LBS/1,000 SQ. FT.

DATES: 2/1 - 4/30 AND 8/15 - 10/31

C. GENERAL AND LARGE ACREAGE

"KENTUCKY 31" TALL FESCUE 60 LBS./ACRE OR 1.38 LBS/1,000 SQ.FT.(0.5 kg/100 sq.m)

VII. MULCHING

ALL SEEDINGS REQUIRE MULCHING. USE MULCH ONLY DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE.

MULCH SHALL BE UNROTTED, UNCHOPPED SMALL GRAIN STRAW APPLIED AT A RATE OF 1 TO 2 TONS/ACRE OR 70-90 LBS/1,000 SQ.FT. (2 BALES) MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEED BEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY MECHANICALLY OR BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOOL, PEG AND TWIN OR LIQUID MULCH BINDERS.

LIQUID MULCH BINDER SHALL BE RAPID CURING CUTBACK ASPHALT APPLIED AT A RATE OF 200 GAL/ACRE OR 5 GAL. PER 1,000 SQ. FT. SLOPES 8 FEET OR MORE HIGH USE 348 GAL./ACRE OR 8 GAL/1,000 SQ. FT.

VII. SODDING

CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR WITH STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTING AND NOT OVERLAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED WITHIN EIGHT HOURS OF INSTALLATION. DAILY WATERING TO MAINTAIN 4 INCH DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN GROUND.

IX. MAINTENANCE

A. IRRIGATION - WHEN SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF PROTECTIVE VEGETATION.
B. REPAIRS - IF STAND IS INADEQUATE FOR EROSION CONTROL, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND IS OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL RATES AND PROCEDURES.

NOTE: USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE 1987 DISTRICT OF COLUMBIA DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL VEGETATIVE PRACTICES.

STANDARD 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 WHERE SHOWN. PROVIDE WATER SOURCE AND HOSE TO CLEAN ALL EQUIPMENT LEAVING SITE.
3. INSTALL SILT FENCE AS SHOWN.
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 SILT FENCE TO BE MAINTAINED IN WORKING CONDITION. TO BE MAINTAINED IN WORKING CONDITION.
7. STABILIZED CONSTRUCTION ENTRANCES TO BE PERIODICALLY SUPPLEMENTED WITH ADDITIONAL STONE AS NEEDED.
8. CONTROLS CAN BE REMOVED AFTER THEIR CONTRIBUTING BASINS HAVE BEEN PERMANENTLY STABILIZED, AND APPROVAL OF INSPECTOR IS OBTAINED.

NARRATIVE

THE PROPOSED UNIFIED COMMUNICATIONS CENTER WILL BE LOCATED IN THE DISTRICT OF COLUMBIA, ON MARTIN LUTHER KING, JR. S.E. MIDWAY BETWEEN POMEROY ROAD AND MAGNOLIA STREET. CONSTRUCTION OF THE PROPOSED CENTER WILL INCLUDE SITE IMPROVEMENTS AND PARKING. VEHICLE ENTRANCE INTO THE BUILDING WILL BE PROVIDED OFF MARTIN LUTHER KING, JR. AVE AT TWO ENTRANCES. THE NORTHERN ENTRANCE IS LOCATED ACROSS FROM GATE #1. THE SOUTHERN ENTRANCE IS LOCATED ACROSS FROM GATE #2. THE AREA OF THE SITE IS _____ AC., OF WHICH _____ AC. WILL BE OCCUPIED BY THE PROPOSED STRUCTURE AND PARKING. THE TOTAL AMOUNT OF EXCAVATION WILL BE _____ C.Y. WITH _____ C.Y. OF FILL. STORMWATER MANAGEMENT AND QUALITY WILL BE PROVIDED BY MEANS OF A STORMWATER POND LOCATED JUST NORTHWEST OF THE CENTER.

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 THE APPROVED PLAN AND SECTION 535 OF DCMR-21. IN THE EVENT THAT THE 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, THE ENTITY SHALL BE RESPONSIBLE FOR COMPLYING WITH THE MAINTENANCE AND OPERATION IN COMPLIANCE WITH SECTION 535 THROUGH 535 OF DCMR-21, CHAPTER 5 HAS BEEN ACCEPTED.

SIGNATURE OF THE PERSON RESPONSIBLE FOR MAINTENANCE

NAME AND TITLE (PLEASE PRINT)

ADDRESS

DATE _____ TELEPHONE NO. _____

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 PERSONALLY EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH THE DESIGN REQUIREMENTS OF DCMR-21. IN THE TREATMENT AND DISPOSAL OF STORMWATER POLLUTANTS. FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED IN ACCORDANCE WITH THE SPECIFICATIONS REQUIRED UNDER SECTION 535 THROUGH 535 OF DCMR-21. IF THE FACILITY IS TRANSFERRED TO ANOTHER ENTITY, I WILL PROVIDE THE APPLICANT WITH A SET OF INSTRUCTIONS FOR THE MAINTENANCE AND OPERATION OF THE STORMWATER DISCHARGE FACILITY.

SIGNATURE OF ENGINEER

JAMES R. LONG, P.E., CIVIL ENGINEERING GROUP MANAGER
NAME AND TITLE (PLEASE PRINT)

8403 COLESVILLE ROAD, SUITE 800
SILVER SPRING, MD 20910
ADDRESS

DATE _____ TELEPHONE NO. (301) 585-8100

DHA #: 1428

PARCEL 234

LOT 38

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Registration

PUD SUBMISSION	12/21/01
SD SUBMISSION	9/27/01
No. Description	Date

Scale:	AS SHOWN
Project No:	314700
Drawn By:	TOW
Checked By:	JRL

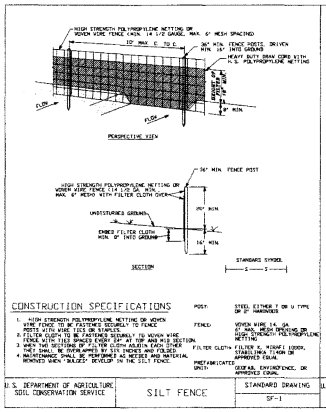
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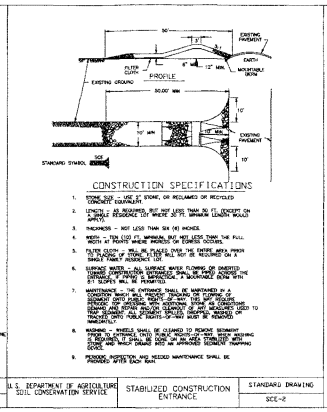
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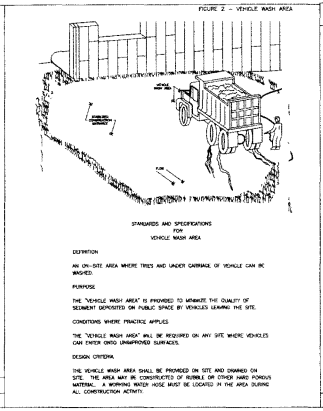
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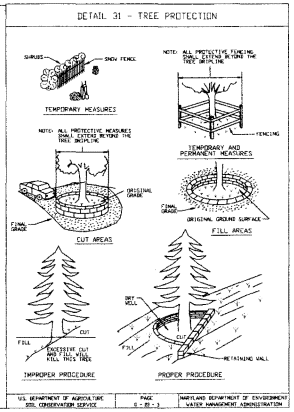
SEPTEMBER 27, 2001

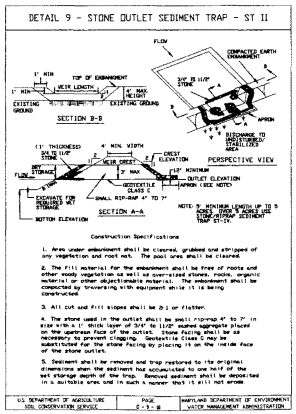
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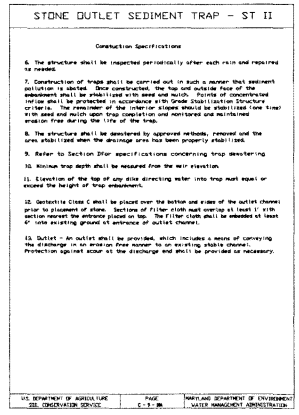












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Registration

No.	Description	Date
	PUD SUBMISSION	12/21/01
	SD SUBMISSION	9/27/01

Scale: AS SHOWN
Project No: 314700
Drawn By: FDW
Checked By: JBL

Key Plan

SEDIMENT & EROSION CONTROL DETAILS

C-16

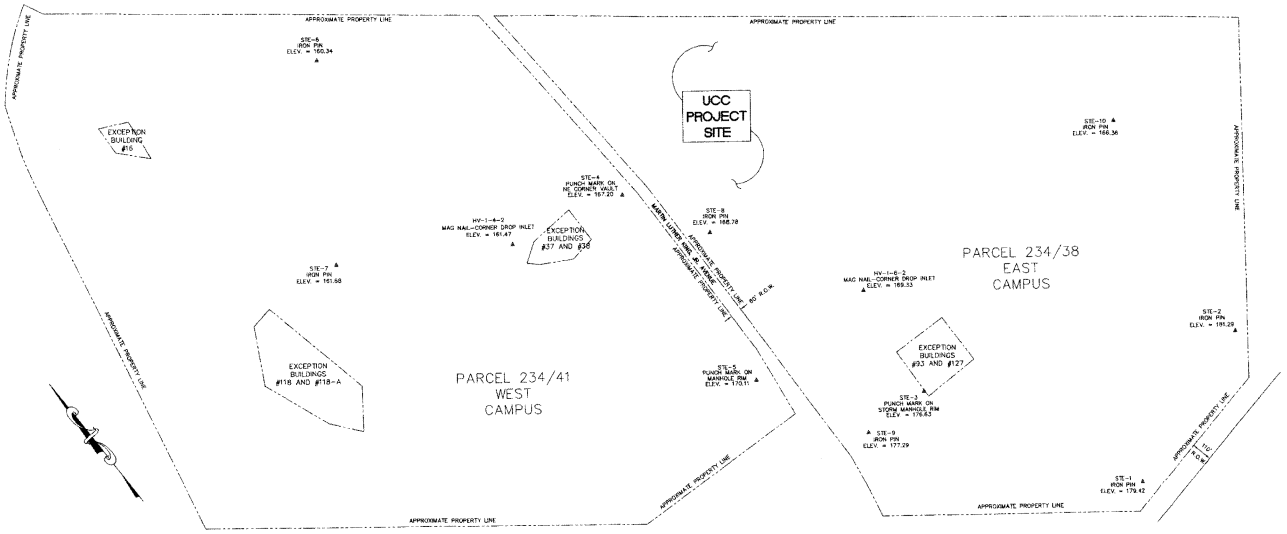
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DHA #: 1428

PARCEL 234

LOT 38

SEPTEMBER 27, 2001



SAINT ELIZABETH'S HOSPITAL PROPERTY LIMITS (MARCH 8, 2001)

GRAPHIC SCALE

(IN FEET)
1 inch = 200 ft.

SURVEY NOTES

1. Source of Boundary, and Topographic information: From ground control surveys, dated January 23, 2001, through January 27, 2001, by L. Robert Kimball & Associates, Inc., and from aerial photography dated January 13, 2001.
2. Horizontal control is based on NAD83 datum, Maryland State Plane Coordinates. GPS methods were used, holding monuments "20452" and "20456". Modified state plane coordinates were used, holding STE-8 as base point and scale factor of 1.000008137. All distances are ground distances, not grid distances.
3. Vertical control is based on NAVD88 datum. Elevations were established from GPS ellipsoid heights of "20452", elevation 20.93 meters, and "20456", elevation 31.17 meters.
4. No boundary survey was performed. Boundary lines were compiled from deed instrument #26986, dated September 30, 1987, (East Campus) and a plan entitled Plat of Survey of Parcels 234/2 & 234/38 Outlines, Dwg. # 1-6, dated March 31, 1947 (West Campus). Exception parcels were compiled from said deed.
5. Intervisible pairs of stations are STE-1 to STE-2, STE-3 to HV-1-6-2, STE-4 to STE-5, STE-6 to STE-7, STE-8 to STE-9, STE-10 to STE-2, and STE-4 to HV-1-4-2. All elevations shown with stations are GPS elevations.

DHA #: 1428

PARCEL 234

LOT 38

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Registration

PUD SUBMISSION	12/21/01
SD SUBMISSION	9/27/01

No.	Description	Date

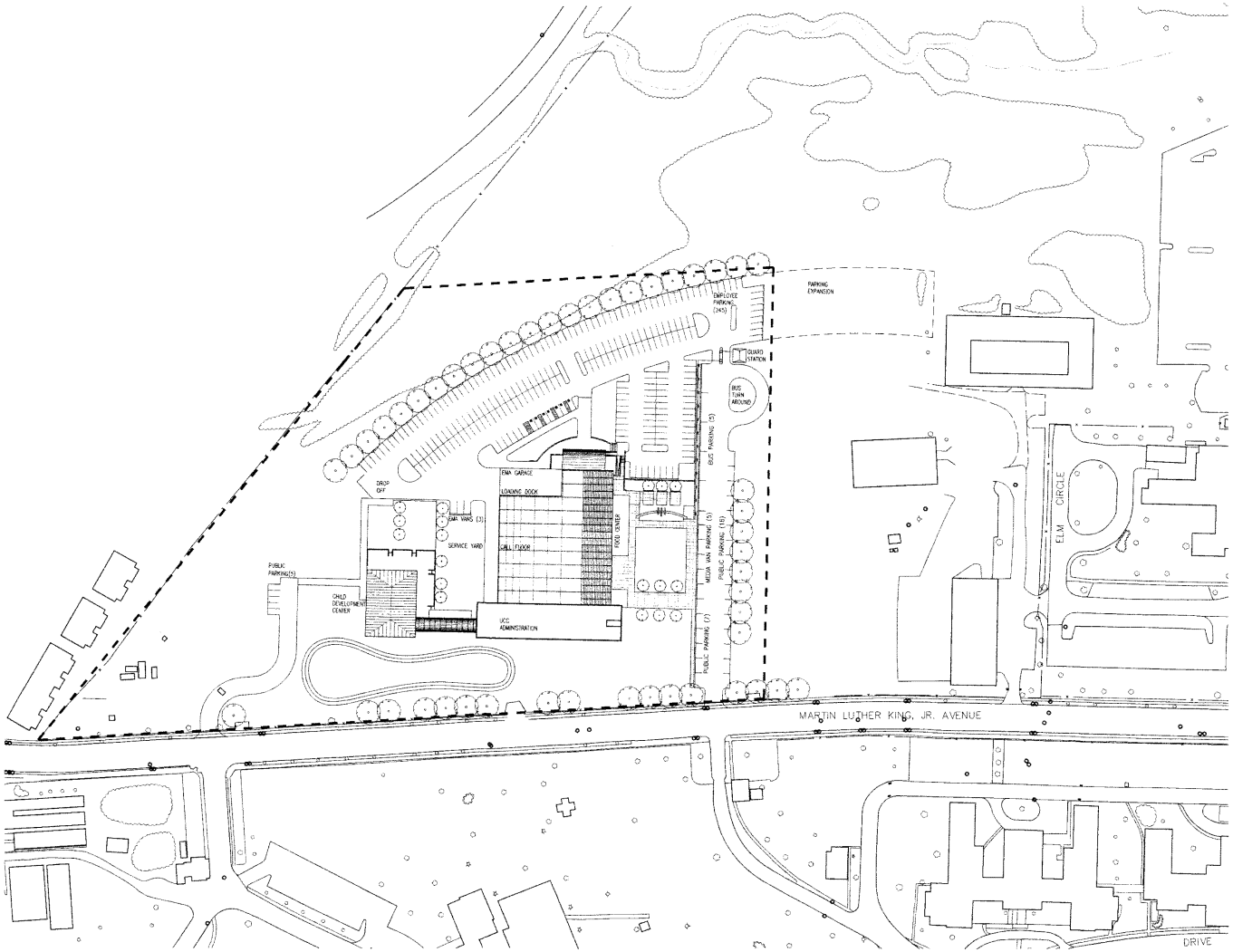
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Drawn By:	FDW
Checked By:	JRL

Key Plan

BOUNDARY AND SURVEY CONTROL SKETCH

C-17

SEPTEMBER 27, 2001



01 SITE PLAN

A-051 | REF. AS-777, AS-779 | SCALE: 1" = 50'-0"

SEPTEMBER 27, 2001

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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

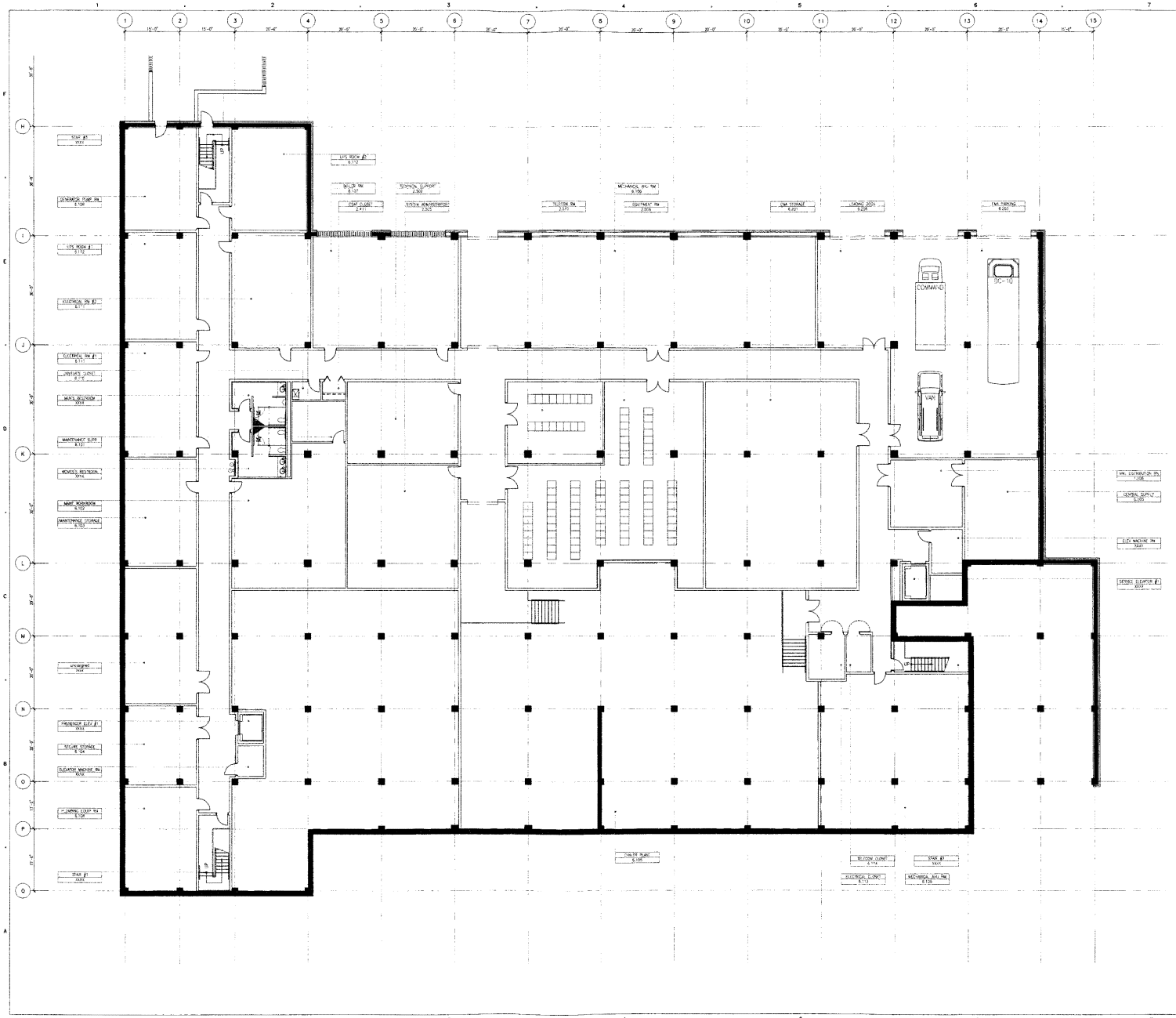
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Project No: 314700
Drawn By: JW/BH
Checked By: ——

Key Plan

SITE PLAN

A-051

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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

Scale: 1/8" = 1'-0"
Project No: 314700
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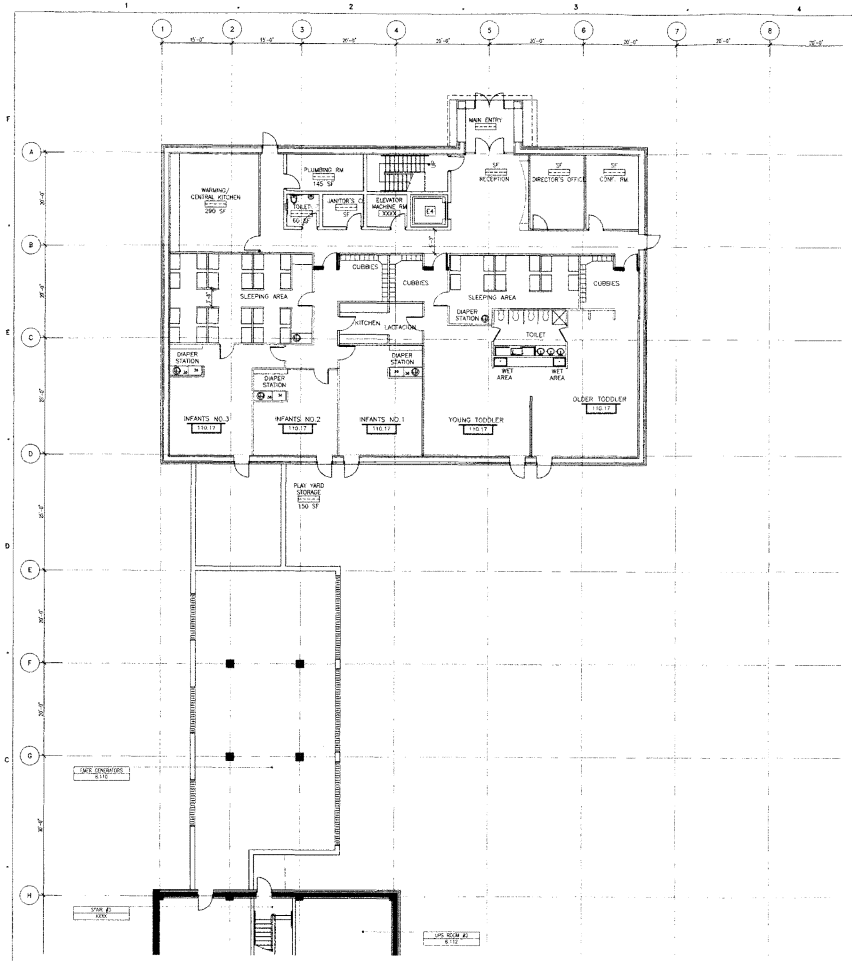
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LOWER LEVEL
ENLARGED FLOOR PLAN

A-100A

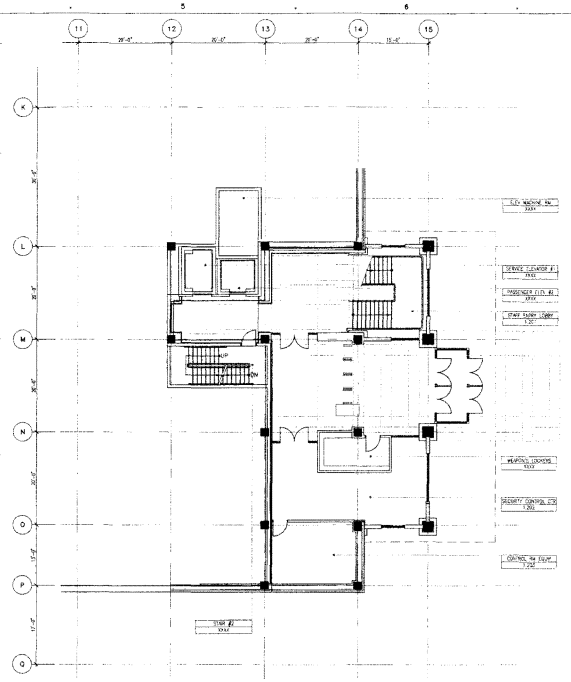
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LOWER LEVEL
01 CHILD CARE CENTER

A-1008 REF: A-100, A-130A SCALE: 1/8" = 1'-0"



ENTRY LEVEL
02 STAFF ENTRANCE

A-1008 REF: A-100, A-130A SCALE: 1/8" = 1'-0"

SEPTEMBER 27, 2001

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Registration

No.	Description	Date
3	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

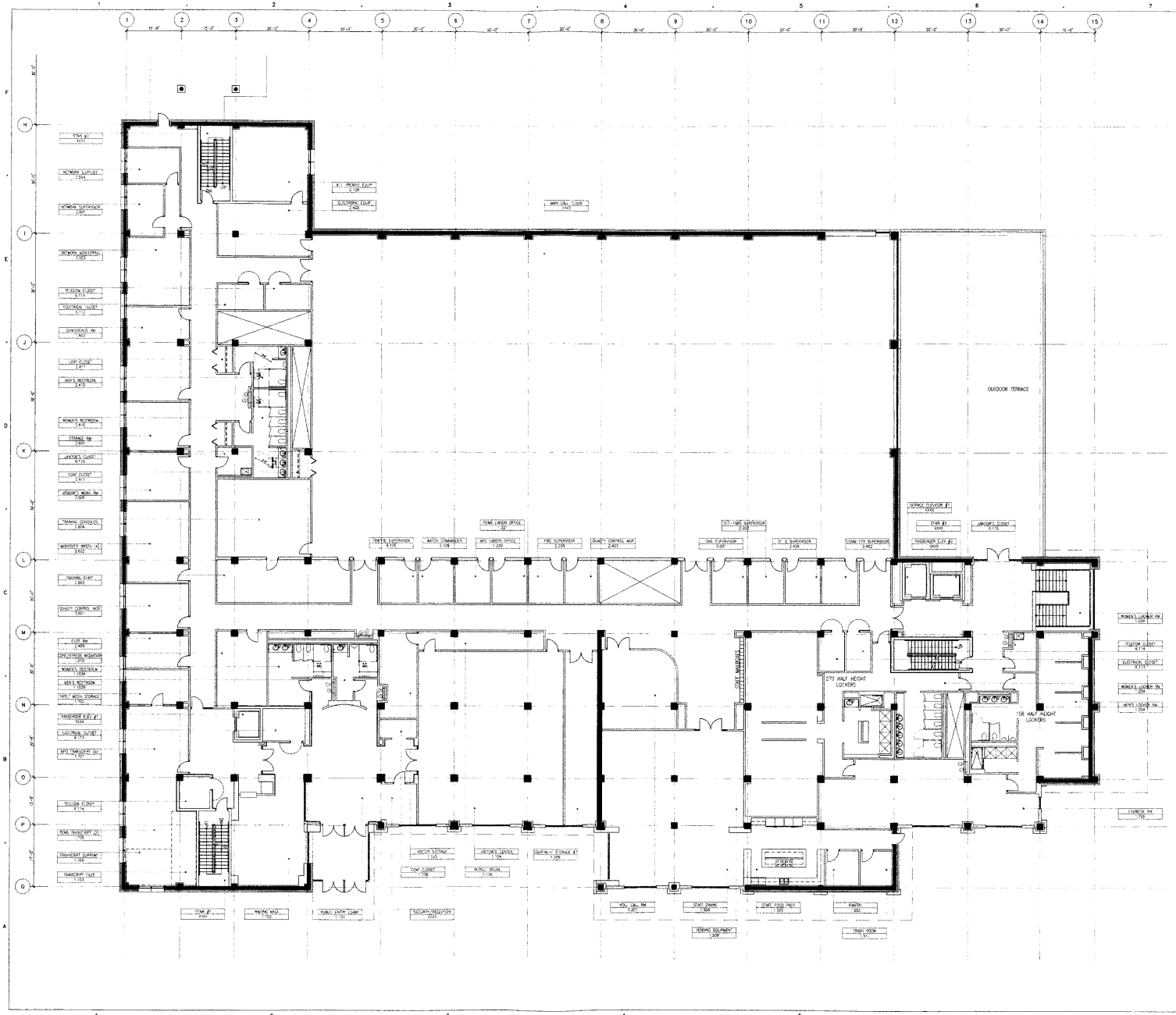
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Key Plan

LOWER LEVEL
PARTIAL PLANS

A-100B

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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

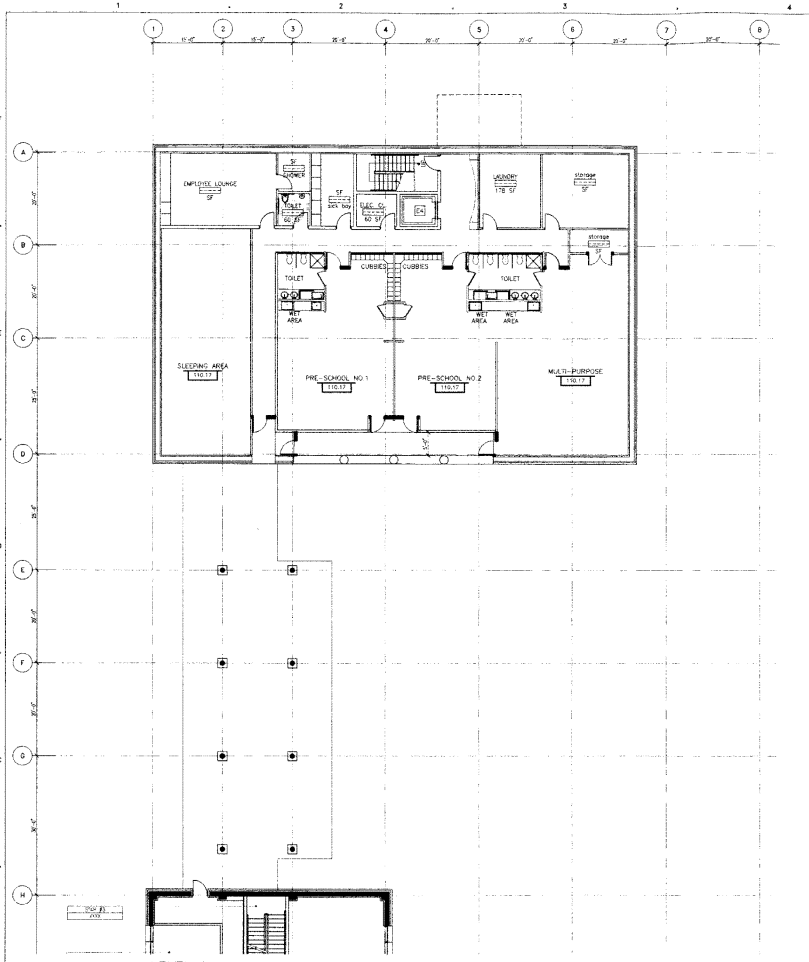
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Key Plan

LEVEL 1
ENLARGED FLOOR PLAN

A-101A

DMJM



LEVEL 1
01 CHILD CARE CENTER

A-101B | REF. A-101, A-101A | SCALE: 1/8" = 1'-0"

SEPTEMBER 27, 2001

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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

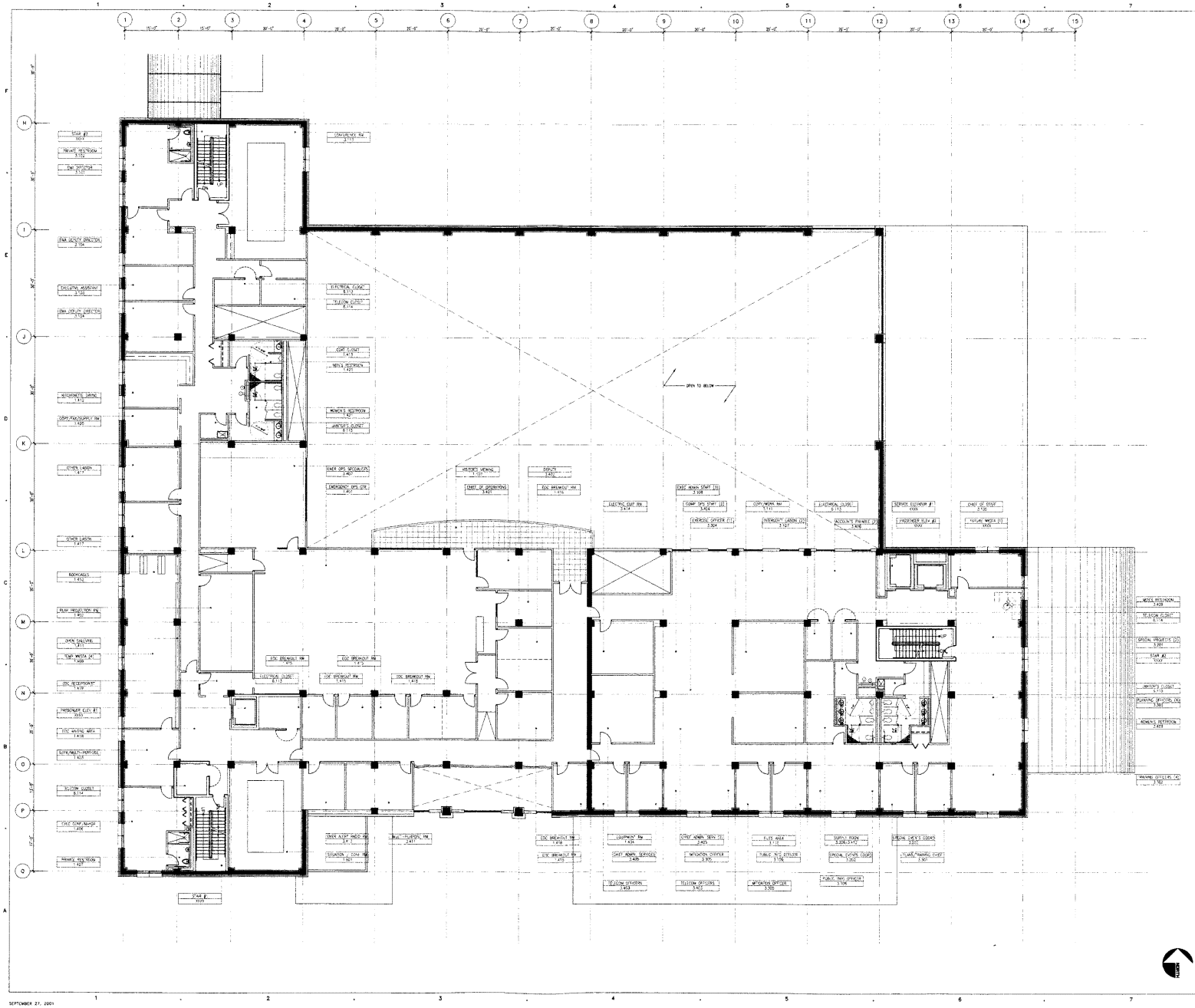
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Checked By:

Key Plan

LEVEL 1
PARTIAL PLANS

A-101B

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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

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Project No: 314700
Drawn By: ---
Checked By: ---

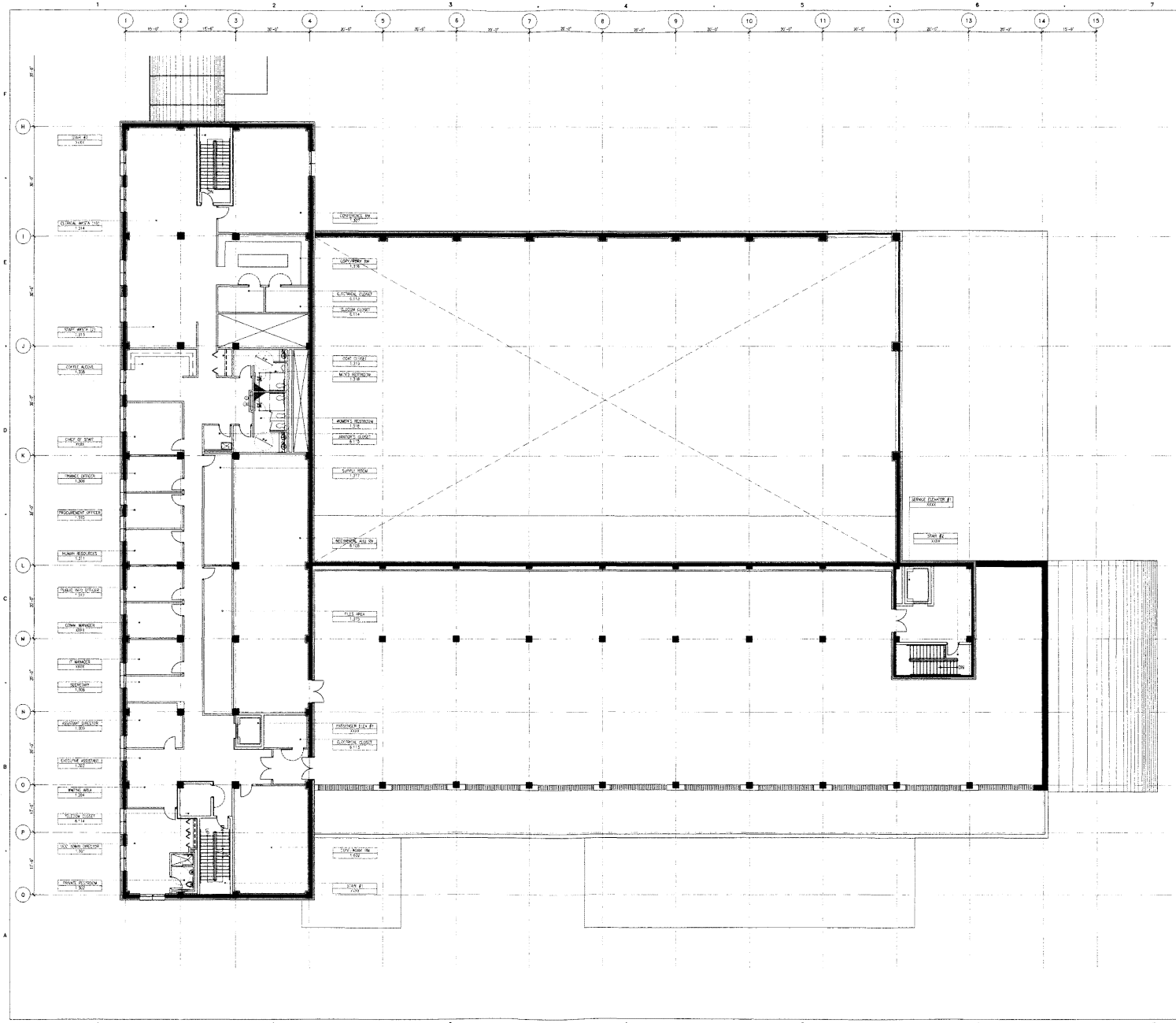
Key Plan

LEVEL 2
ENLARGED FLOOR PLAN

A-102A

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SEPTEMBER 27, 2001



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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

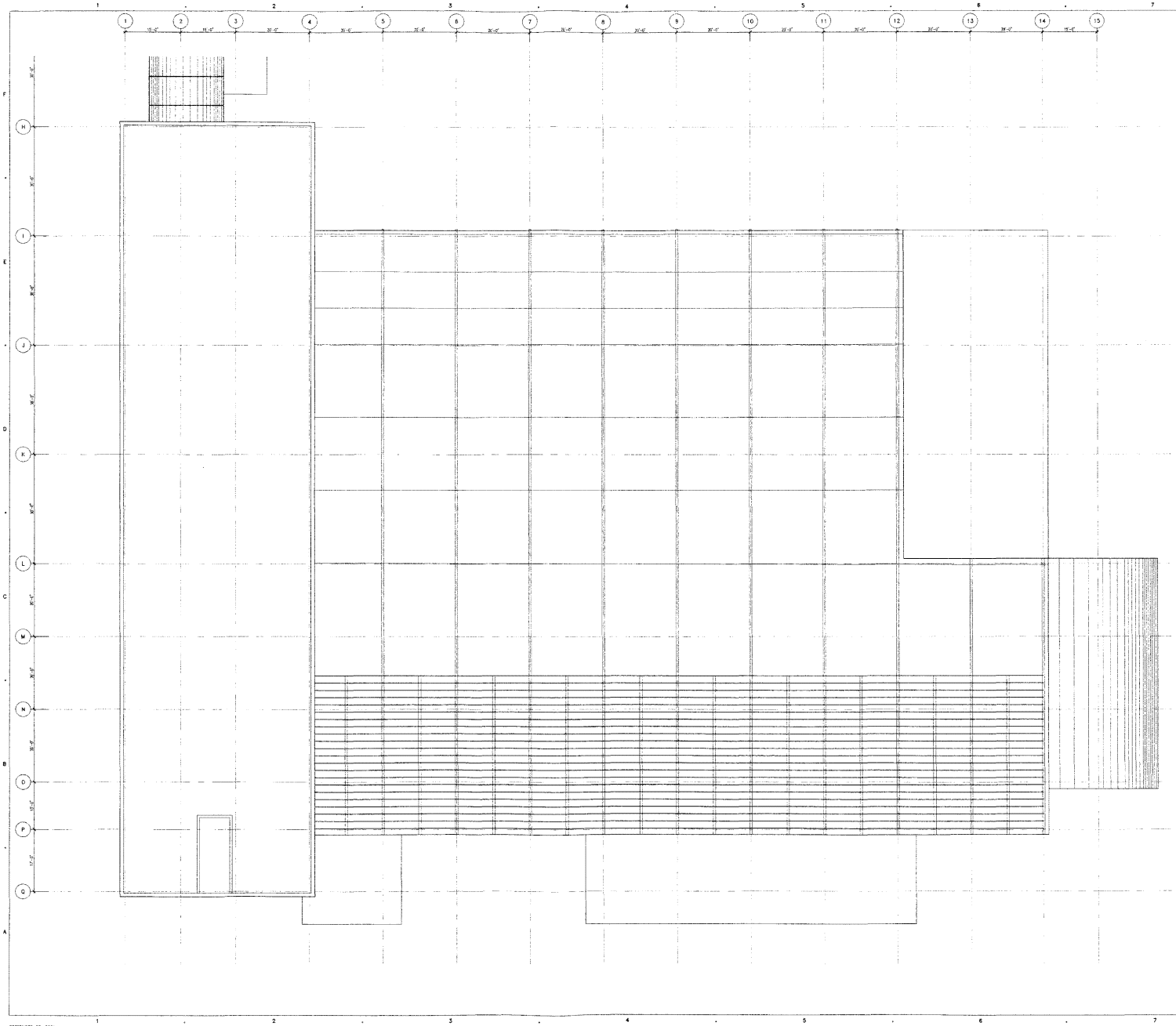
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Checked By: ----

Key Plan

LEVEL 3
ENLARGED FLOOR PLAN

A-103A

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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

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Checked By: ---

Key Plan

ROOF LEVEL
ENLARGED PLAN

A-104A

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Registration

No.	Description	Date
1	Planned Unit Development	12/21/01

Scale: 1/8" = 1'-0"
Project No: 314700
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Key Plan

WEST ELEVATION

A-301

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Registration

No.	Description	Date
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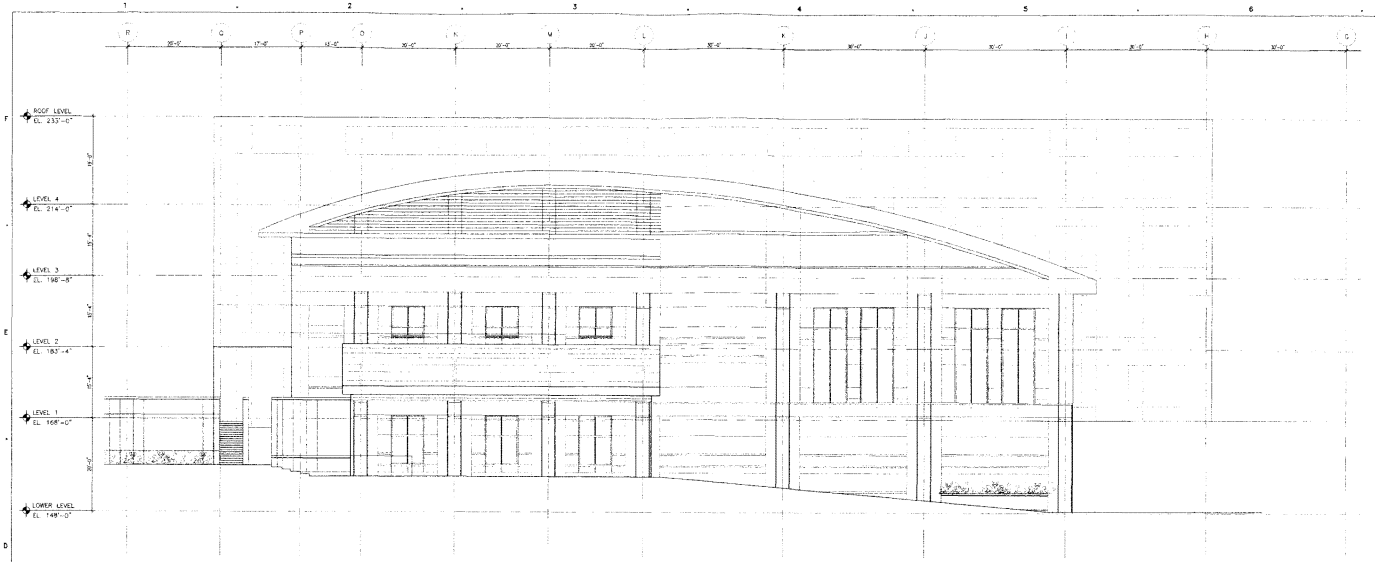
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SOUTH ELEVATION

A-302

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Registration

No.	Description	Date
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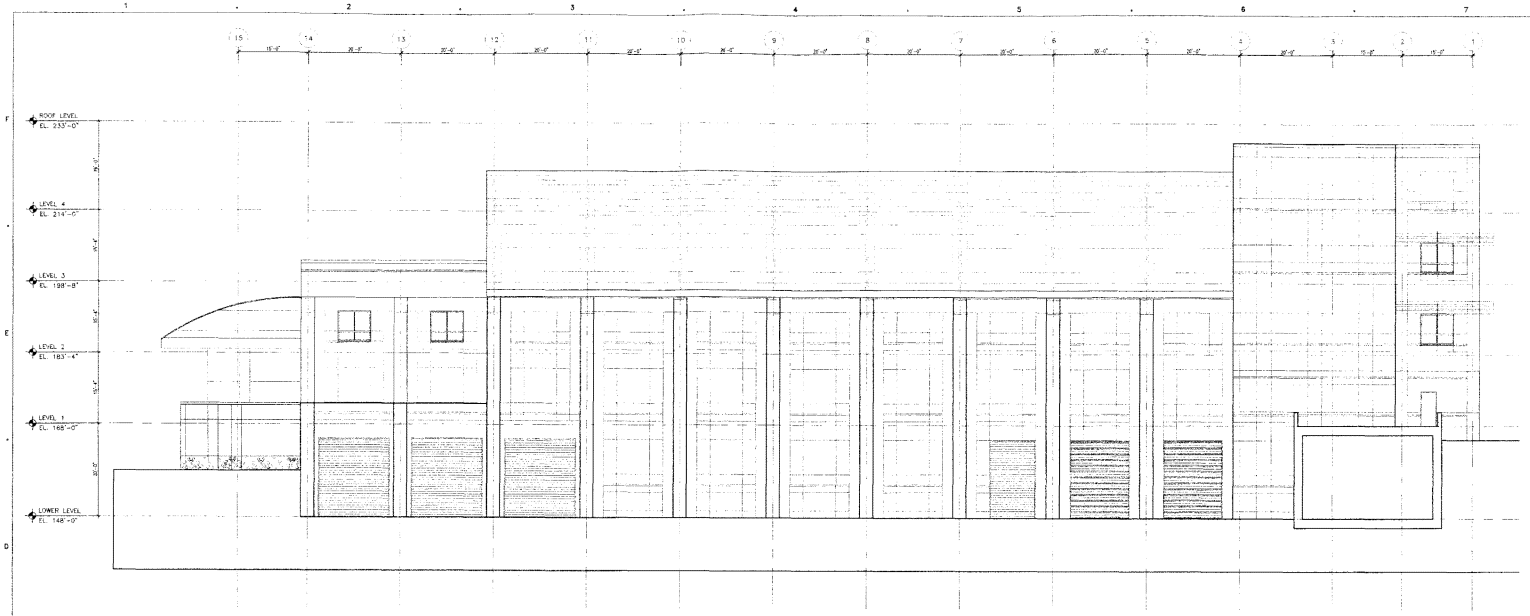
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EAST ELEVATION

A-303

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Registration

No.	Description	Date
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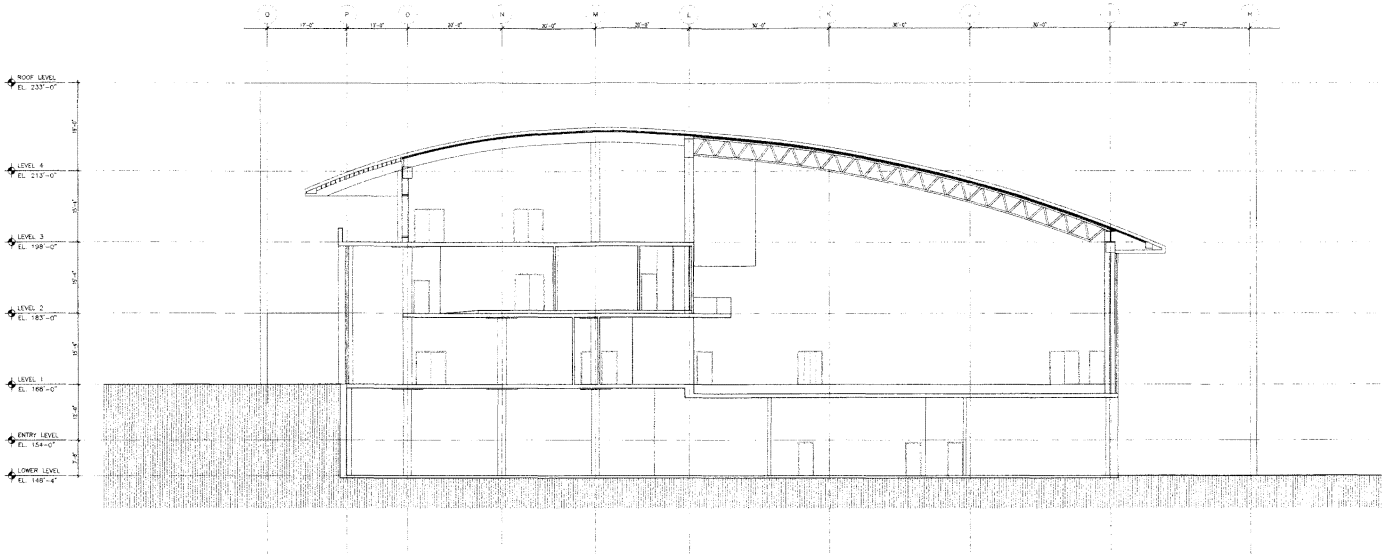
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NORTH ELEVATION

A-304

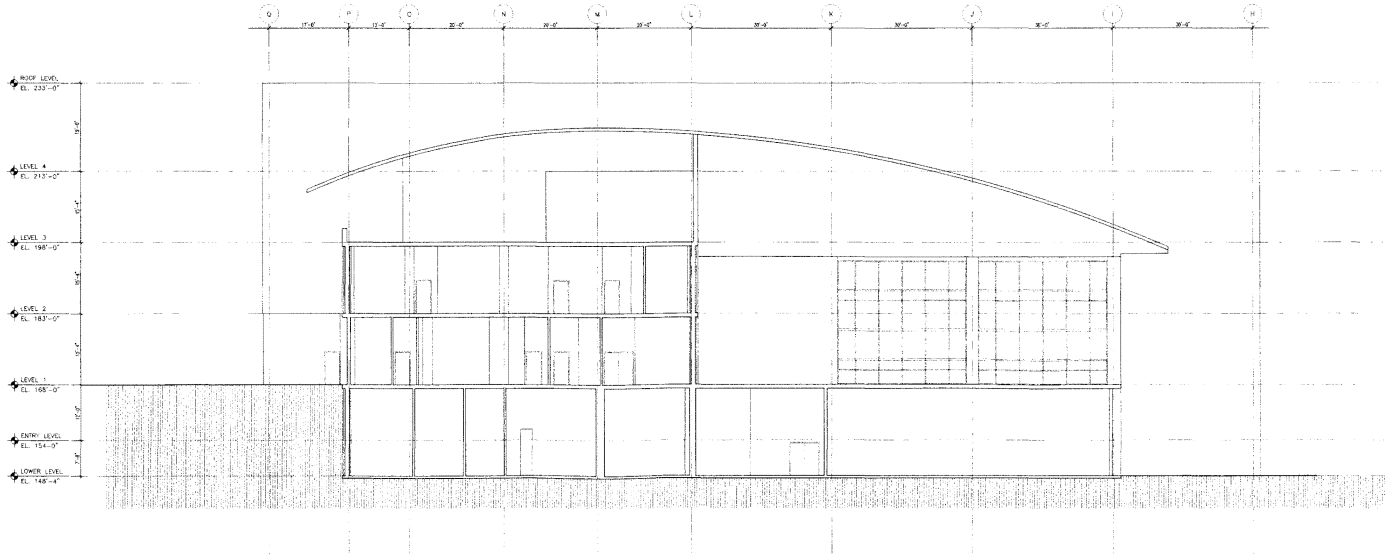
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Last Saved: 12/21/01 10:47:45 AM by Jeffrey Hoffman



A SECTION A

A-401 REF. A-401 SCALE: 1/8" = 1'-0"



B SECTION B

A-401 REF. A-401 SCALE: 1/8" = 1'-0"

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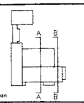
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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

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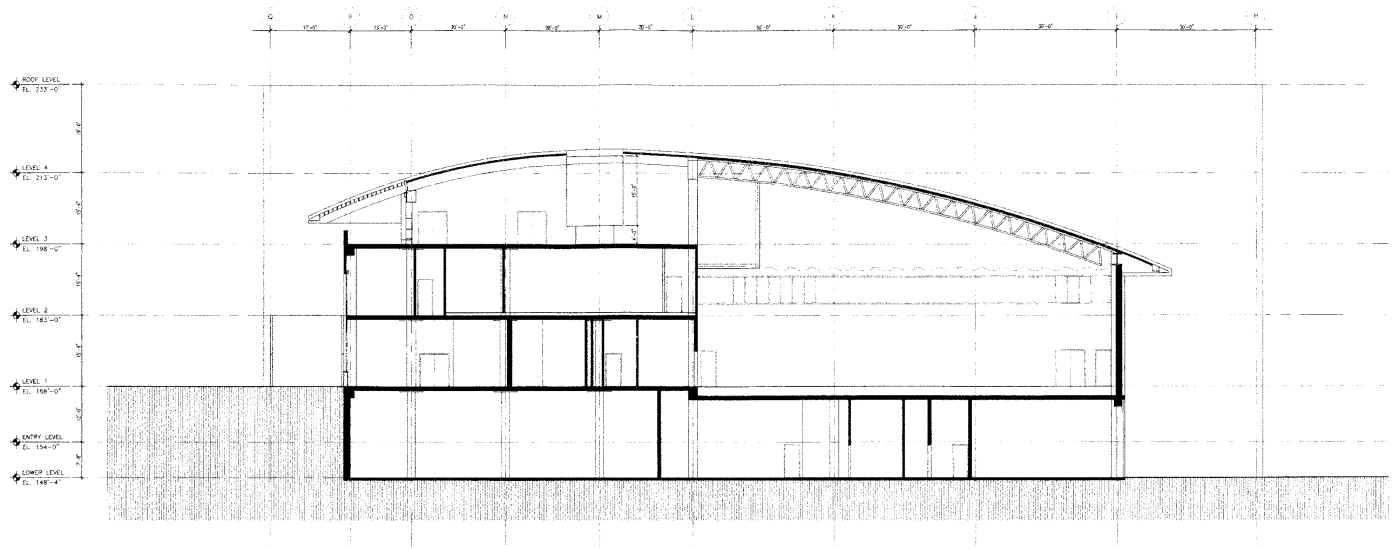
Key Plan

BUILDING SECTIONS

A-401

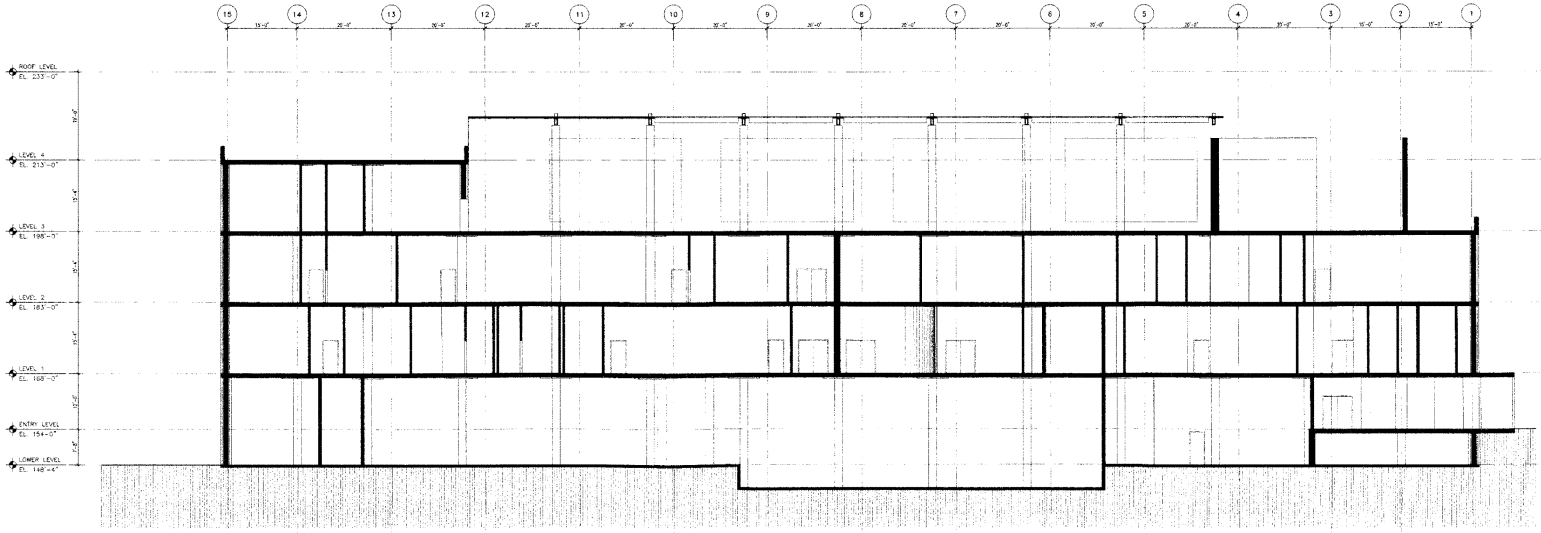
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C SECTION C

A-402 REF. A-402 SCALE: 1/8" = 1'-0"



D SECTION D

A-402 REF. A-402 SCALE: 1/8" = 1'-0"

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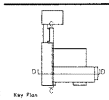
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Registration

No.	Description	Date
2	Planned Unit Development	12/21/01
1	Schematic Design	09/27/01

Scale: 1/8" = 1'-0"
Project No: 314700
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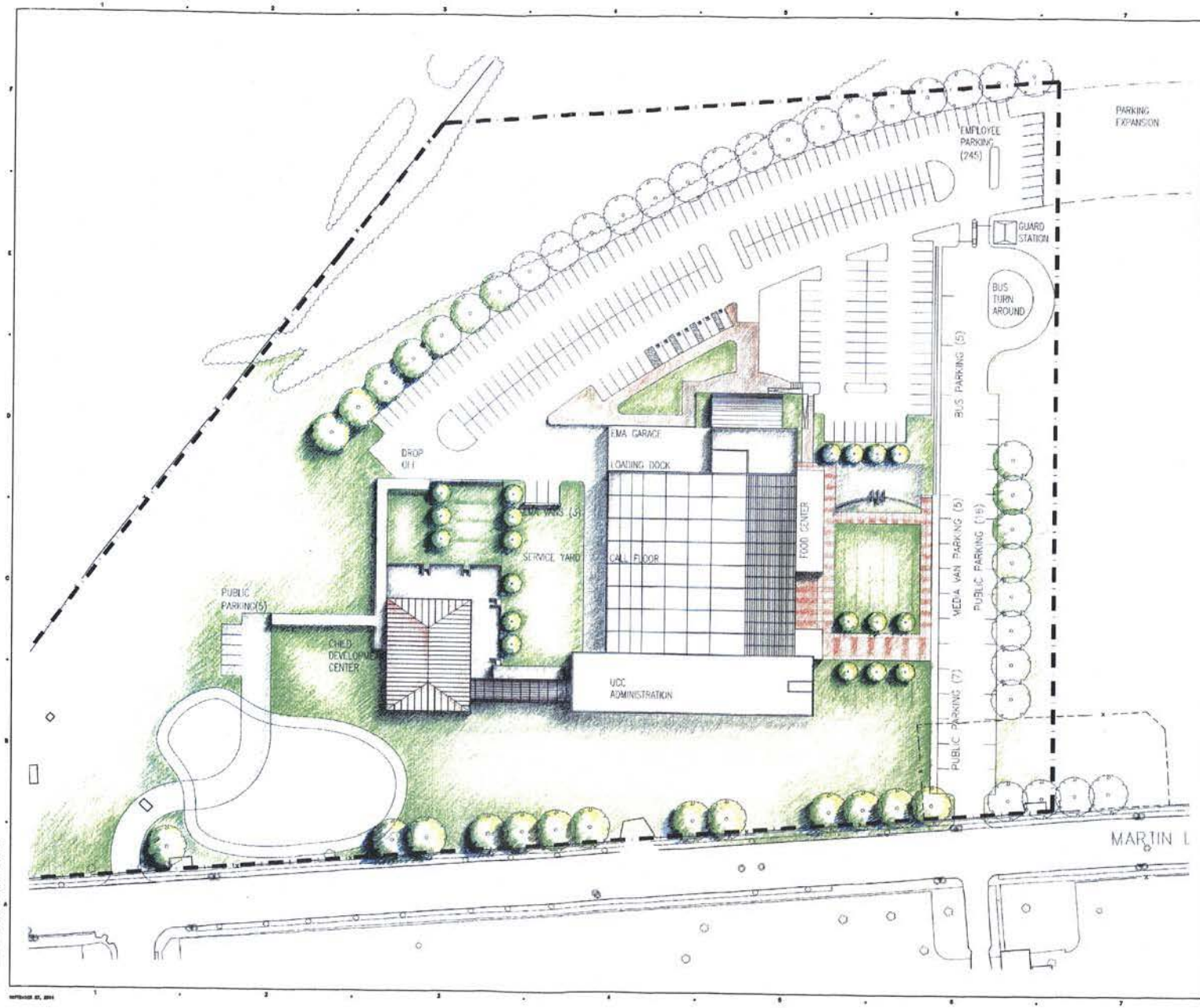


Key Plan

BUILDING SECTIONS

A-402

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LANDSCAPE PLAN

L-001