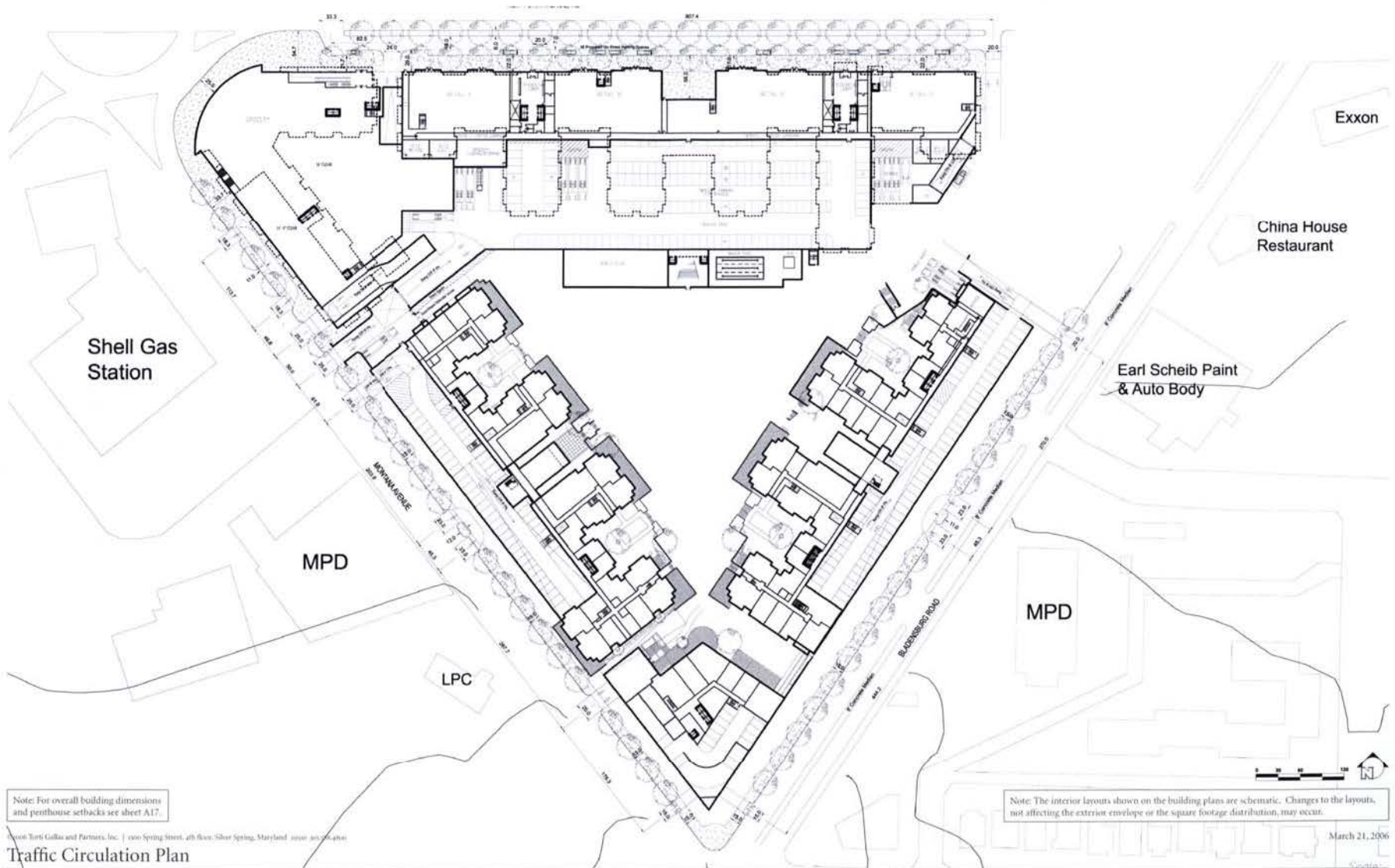




Note: For overall building dimensions and penthouse setbacks see sheet A17.

Note: The interior layouts shown on the building plans are schematic. Changes to the layouts, not affecting the exterior envelope or the square footage distribution, may occur.

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March 21, 2006

Traffic Circulation Plan

ABDO NEW YORK, LLC
 TORTI GALLAS AND PARTNERS | CLINTON & ASSOCIATES, PC

A042

NEW YORK AVENUE/ARBORETUM

ZONING COMMISSION
 District of Columbia
 CASE NO.06-15
 EXHIBIT NO.6A2

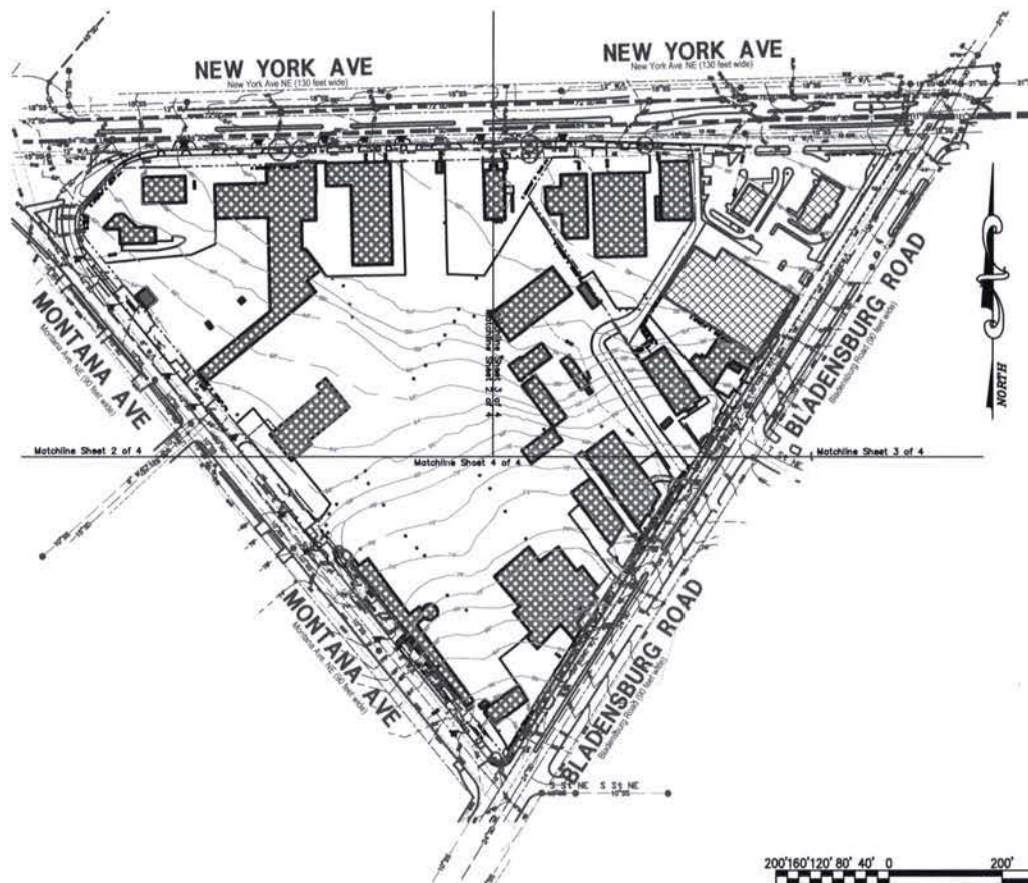
* CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT, EXTENT AND DESIGN OF SHEETING, SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING SHALL BE DESIGNED BY A STRUCTURAL ENGINEER, LICENSED IN DC, HIRED BY THE CONTRACTOR AS NECESSARY TO ENSURE SUPPORT OF SURROUNDING STRUCTURES AND UTILITIES.

* PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES VERIFY INVERT ELEVATION OF EXISTING UTILITIES. NOTIFY ENGINEER OF ANY DISCREPANCIES WITH INFORMATION SHOWN PRIOR TO ORDERING ANY STRUCTURES. OTHER MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL DISPOSAL OFF SITE.

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED. IN ADDITION, THESE ACTIVITIES SHALL BE COORDINATED WITH DESIGN TEAM

1. **ACCESS** The CONTRACTOR SHALL REMOVE AND TRANSPORT ALL OBSTRUCTIONS AND THE EXISTING LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND LOCATIONS OF EXISTING UTILITIES. CONTACT "MISS UTILITY AT WORK" NUMBERS IMMEDIATELY IN THE EVENT OF ANY DAMAGE TO UTILITIES.
2. **REMOVAL OF ASPHALT AND CONCRETE PAVEMENT** SHALL INCLUDE THE REMOVAL OF ALL SURFACE, BASE AND SUBGRADE MATERIALS. EXISTING ASPHALT AND CONCRETE PAVEMENT SHALL BE REMOVED TO THE SUBGRADE. ALL REMOVED ASPHALT AND CONCRETE SHALL BE TAKEN TO AN APPROVED LANDFILL. ALL REMOVED ASPHALT AND CONCRETE SHALL BE PROPERLY CAPPED AND ABANDONED PER UTILITY PRACTICES STANDARDS AND REQUIREMENTS. ALL REMOVED ASPHALT AND CONCRETE SHALL BE PROPERLY CAPPED AND ABANDONED PER UTILITY PRACTICES STANDARDS AND REQUIREMENTS.
3. **REMOVAL OF ALL WALLS/STAINING WALLS AND FENCES** SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS OTHERWISE DESIGNATED ON THE PROJECT.

APX	APPROPRIATE	LP	LIGHT POLE
ATM	ATMOSPHERIC CONCRETE	MS	MANHOLE (STRUCTURE)
BL	BLOCK	PA	PAVING MACHINE
BRN	BROWN	PC	PORTLAND CEMENT CONCRETE
CB	CONCRETE CURB	PD	PODDING METHOD
CC	CONCRETE CULVERT	PP	PROPOSED
CD	CONTRACTOR JOINT	RAD	RADIUS
CL	CHAIN LINE	RS	RISER
CLF	CHAIN LINE FENCE	SAN	SANITARY
CLN	CLEAN OUT	SEW	SEWER
CLT	CLEARANCE	ST	STREET
CONC	CONCRETE	STM	STORM
CONC	CONCRETE	STR	STREET (FLOOR)
CP	CURB	STW	STORMWATER
D	DUCTILE IRON PIPE	STR	STORMWATER
DGR	DRAINAGE	STR	STORMWATER
E	ELECTRICAL	STR	STORMWATER
ELEV	ELEVATION	TYP	TYPICAL
ELW	ELECTRICAL	W	WATER
EX	EXISTING	W	WATER LINE
EX	EXISTING	WV	WATER VALVE
EXT	EXTENDING	WV	WATER VALVE
FT	FEET/FOOT	WV	WATER VALVE
FT	FEET/FOOT	WV	WATER VALVE
G	GRANITE	WV	WATER VALVE
G	GRANITE CURB	WV	WATER VALVE
GRN	GRANITE	WV	WATER VALVE
GRNT	GRANITE	WV	WATER VALVE



A map of the study area showing the location of the study site. The map includes a grid of streets and a shaded area labeled 'SITE'.

C.01	EX.CONDITIONS & DEMOLITION PLAN-OVERALL
C.02	EX.CONDITIONS & DEMOLITION PLAN-WEST
C.03	EX.CONDITIONS & DEMOLITION PLAN-EAST
C.04	EX.CONDITIONS & DEMOLITION PLAN-SOUTH
C.05	SITE PLAN-OVERALL
C.06	SITE PLAN-WEST
C.07	SITE PLAN-EAST
C.08	SITE PLAN-SOUTH
C.09	SEDIMENT & EROSION CONTROL PLAN-OVERALL
C.10	SEDIMENT & EROSION CONTROL PLAN-WEST
C.11	SEDIMENT & EROSION CONTROL PLAN-EAST
C.12	SEDIMENT & EROSION CONTROL PLAN-SOUTH
C.13	SEDIMENT & EROSION CONTROL DETAILS
C.14	SITE UTILITY PLAN-OVERALL
C.15	SITE UTILITY PLAN-WEST
C.16	SITE UTILITY PLAN-EAST
C.17	SITE UTILITY PLAN-SOUTH
C.18	SWM DETAILS
C.19	SWM DETAILS
C.20	SWM DETAILS

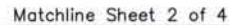
WASHINGTON DC

Job No: 144-05

Sheet No:
C.01

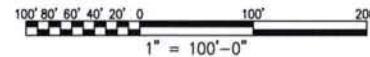
Scale: 1 : 200 Date: 03-16-06

New York Ave NE (130 feet wide)



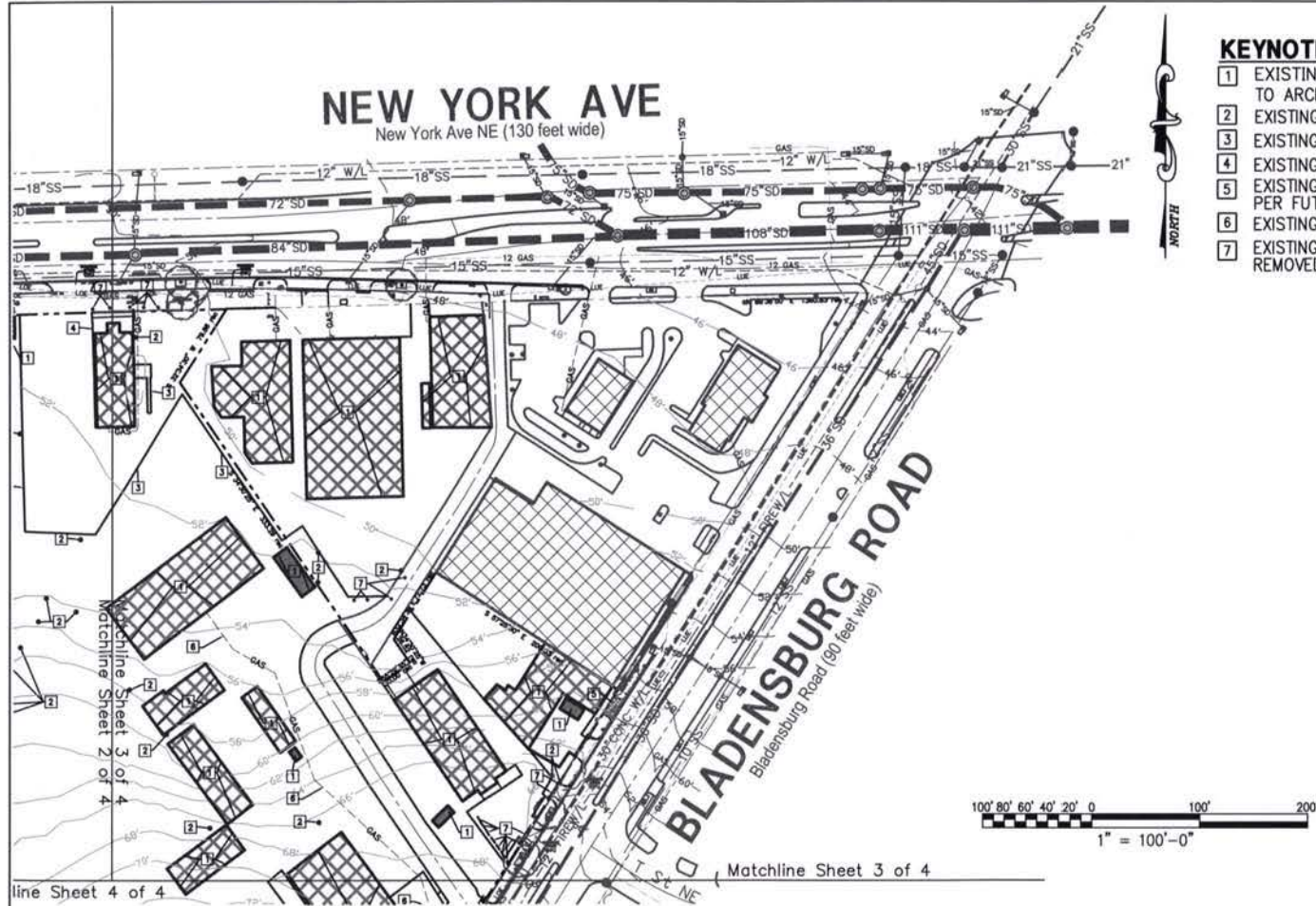
The New York Avenue and Bladensburg Road development project is located in Northeast Washington, DC. The property is essentially triangular in shape. New York Avenue, Bladensburg Road, and Montana Avenue form the three sides of the triangle. New York Avenue runs east-west and is located at the north end of the property. Bladensburg Road runs in a southwest direction and is located at the east side of the property. Montana Avenue runs in a northwest direction and is located at the west side of the property. New York Avenue and Bladensburg Road are main thoroughfares and have large traffic volumes. Montana Avenue is a side road with little traffic volume. The intersection of New York Avenue and Montana Ave form one vertex of the triangle. The intersection of New York Avenue and Bladensburg Road form one vertex of the triangle. The intersection of Montana Avenue and Bladensburg Road form one vertex of the triangle. The lay of the land is such that the terrain slopes down in a northern direction from the south end of the property at the intersection of Montana Avenue and Bladensburg Road. The terrain also slopes down in a southwest direction from Montana Avenue to the intersection of New York Avenue and Bladensburg Road. There exist approximately twenty (20) buildings on the site with the remainder of the site being parking space. There exist only separate sewers (storm and sanitary) in all three roads that envelop the property. There are no combined sewers. An 84 inch storm drain flows in an east direction in New York Avenue. A 15 inch storm drain flows in a northwest direction in Montana Avenue. A 24 inch storm drain flows in a northeast direction into a 36 in storm drain that also flows in a northeast direction in Bladensburg Road. A 15 inch sanitary sewer flows in an east direction in New York Avenue. A 10 inch sanitary sewer flows in a northwest direction in Montana Avenue. A 10 inch sanitary sewer flows in a northeast direction in Bladensburg Road. An 8 inch water main is located in Montana Avenue. Two 12 inch water mains are located in New York Avenue. One 30 inch concrete water main and one 12 inch fire protection pipe are located in Bladensburg Road. Two fire hydrants are located on each of the three streets that envelope the property.

- 1 EXISTING BUILDING TO BE DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 2 EXISTING TREE/SHRUB TO BE REMOVED.
- 3 EXISTING CONCRETE PAVEMENT TO BE REMOVED.
- 4 EXISTING SIDEWALK TO BE REMOVED.
- 5 EXISTING CURB & GUTTER/SIDEWALK TO BE DEMOLISHED PER FUTURE ENTRANCE. SEE SITE PLAN FOR DETAILS.
- 6 EXISTING UTILITIES TO BE REMOVED.
- 7 EXISTING MISCELLANEOUS STRUCTURES TO BE REMOVED (WHEELSTOP, BOLLARD, FENCE, ETC.).



WASHINGTON DC

Sheet Title: EX.CONDITIONS & DEMOLITION PLAN-WEST	Job No: 144-05
Scale: 1 : 100 Date: 03-16-08	Sheet No: C.02



KEYNOTES:

- 1 EXISTING BUILDING TO BE DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 2 EXISTING TREE/SHRUB TO BE REMOVED.
- 3 EXISTING CONCRETE PAVEMENT TO BE REMOVED.
- 4 EXISTING SIDEWALK TO BE REMOVED.
- 5 EXISTING CURB & GUTTER/SIDEWALK TO BE DEMOLISHED PER FUTURE ENTRANCE. SEE SITE PLAN FOR DETAILS.
- 6 EXISTING UTILITIES TO BE REMOVED.
- 7 EXISTING MISCELLANEOUS STRUCTURES TO BE REMOVED (WHEELSTOP, BOLLARD, FENCE, ETC.).

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Sheet Title:
**EX.CONDITIONS
& DEMOLITION
PLAN-EAST**

Scale: 1 : 100 Date: 03-16-06

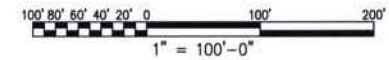
Job No:
144-05

Sheet No:

C.03

KEYNOTES:

- 1 EXISTING BUILDING TO BE DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 2 EXISTING TREE/SHRUB TO BE REMOVED.
- 3 EXISTING CONCRETE PAVEMENT TO BE REMOVED.
- 4 EXISTING SIDEWALK TO BE REMOVED.
- 5 EXISTING CURB & GUTTER/SIDEWALK TO BE DEMOLISHED PER FUTURE ENTRANCE. SEE SITE PLAN FOR DETAILS.
- 6 EXISTING UTILITIES TO BE REMOVED.
- 7 EXISTING MISCELLANEOUS STRUCTURES TO BE REMOVED (WHEELSTOP, BOLLARD, FENCE, ETC.).



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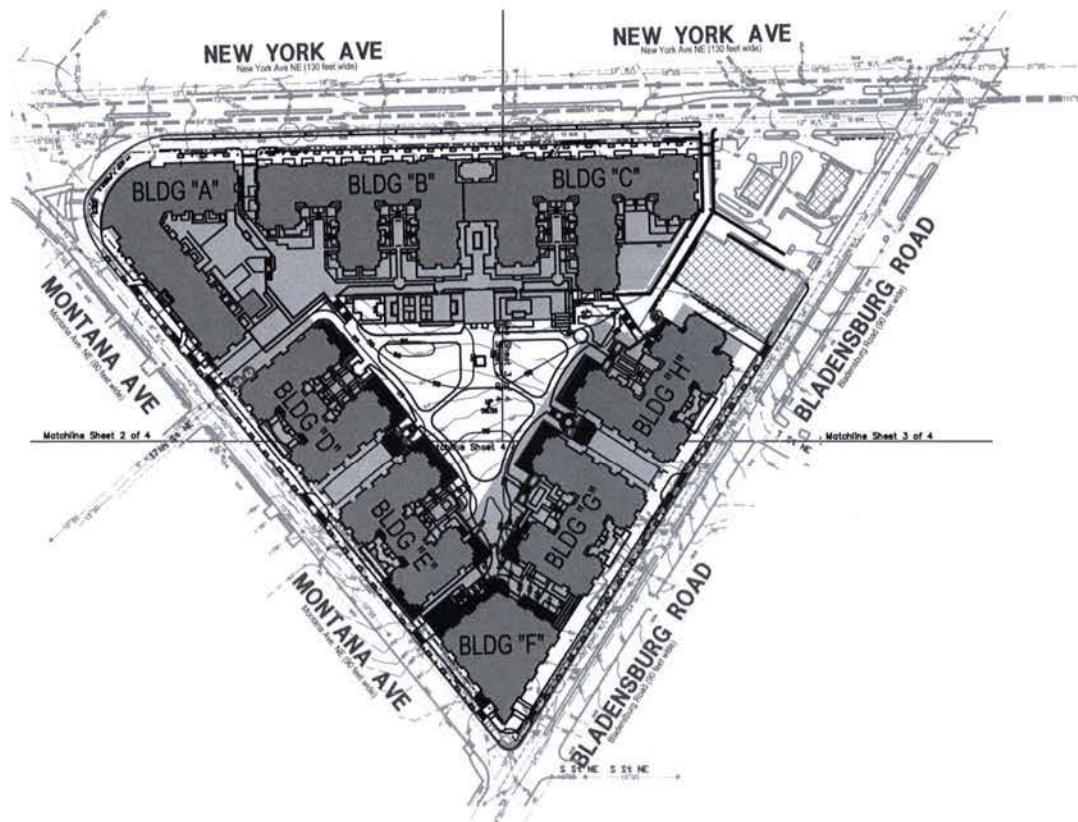
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**EX. CONDITIONS
& DEMOLITION
PLAN-SOUTH**

Scale: 1 : 100

Date: 03-16-06

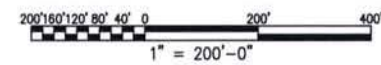
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Sheet No:
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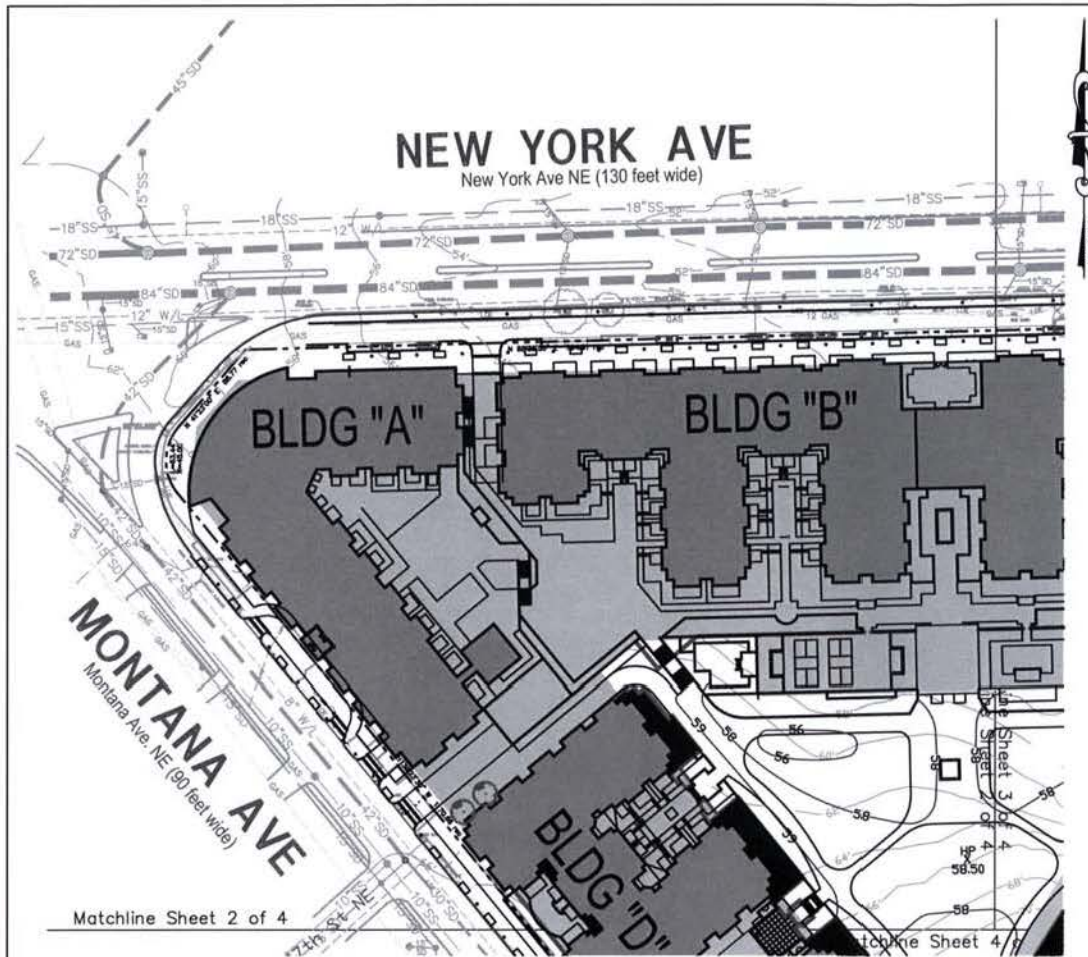
- PROPOSED BUILDING
- PROPOSED GARAGE



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Sheet Title:	Job No:
SITE PLAN OVERALL	144-05
Scale: 1 : 200	Sheet No:
Date: 03-16-06	C.05



GENERAL NOTES:

- EXISTING CONDITIONS WERE PRODUCED FROM SURVEYS PREPARED BY EK IN 2004 AND PUBLIC RECORDS.
- VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE, DC/DM, 707-7032 ON 707-0022 AND MISS UTILITY (1-800-257-7777) 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATIONS. HANG AND 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.
- WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE DC/DM STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PLUMBING CODE.
- DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT, CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE, UNLESS OTHERWISE NOTED.
- FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
- CHANGES 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.
- TEST PITS ARE REQUIRED AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATIONS TO DETERMINE HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
- IF A 1' MINIMUM VERTICAL CLEARANCE CAN NOT BE MAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
- TRANSITION CURBS, CUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND ON GRADE OR AS DIRECTED BY ENGINEER.
- ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
- ALL ON-SITE WATER LINES TO HAVE A MINIMUM COVER OF 4'-0". WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER DPM STANDARDS.
- WHERE PORTIONS OF EXISTING BITUMENOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
- REMOVE FRAMES AND COVERS OF SEWER MANHOLE/WELLS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO GRADE.
- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS FOR 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.
- NOTIFY WASHINGTON GAS AT 202-750-4205, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. CHUCK WHEATLEY AT WASHINGTON GAS AT 750-750-4205.
- PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND THE PROPOSED FACILITIES.
- PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 14" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND THE PROPOSED FACILITIES.

NOTES:

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)465-6030 OR (202) 640-6030.

ALL PROPOSED WORKS TO BE PERFORMED UNDER INSPECTION OF THE DEPARTMENT OF PUBLIC WORKS - WATER AND SEWER AUTHORITY.

ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS - WATER AND SEWER UTILITY AUTHORITY.

USE MANHOLES ENTRY SEALS WHERE REQUIRED.

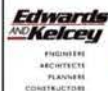
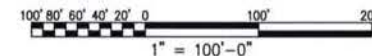
NOTE: CONTRACTOR IS TO BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES, SHORING, BRACING AND UNDERPINNING, DESIGNED BY STRUCTURAL ENGINEER LICENSED IN DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.

UTILITY NOTE:

UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRIC, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE CITY UTILITY RECORDS, OWNER RECORDS AND FIELD VERIFIED WHERE POSSIBLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK OR ORDERING PIPE MATERIALS AND STRUCTURES. REPORT ANY DISCREPANCY TO THE PROJECT MANAGER. FOR MARKING LOCATIONS OF EXISTING UTILITIES, CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO ANY EXCAVATION NOTIFY DEPARTMENT OF PUBLIC WORKS.

LEGEND

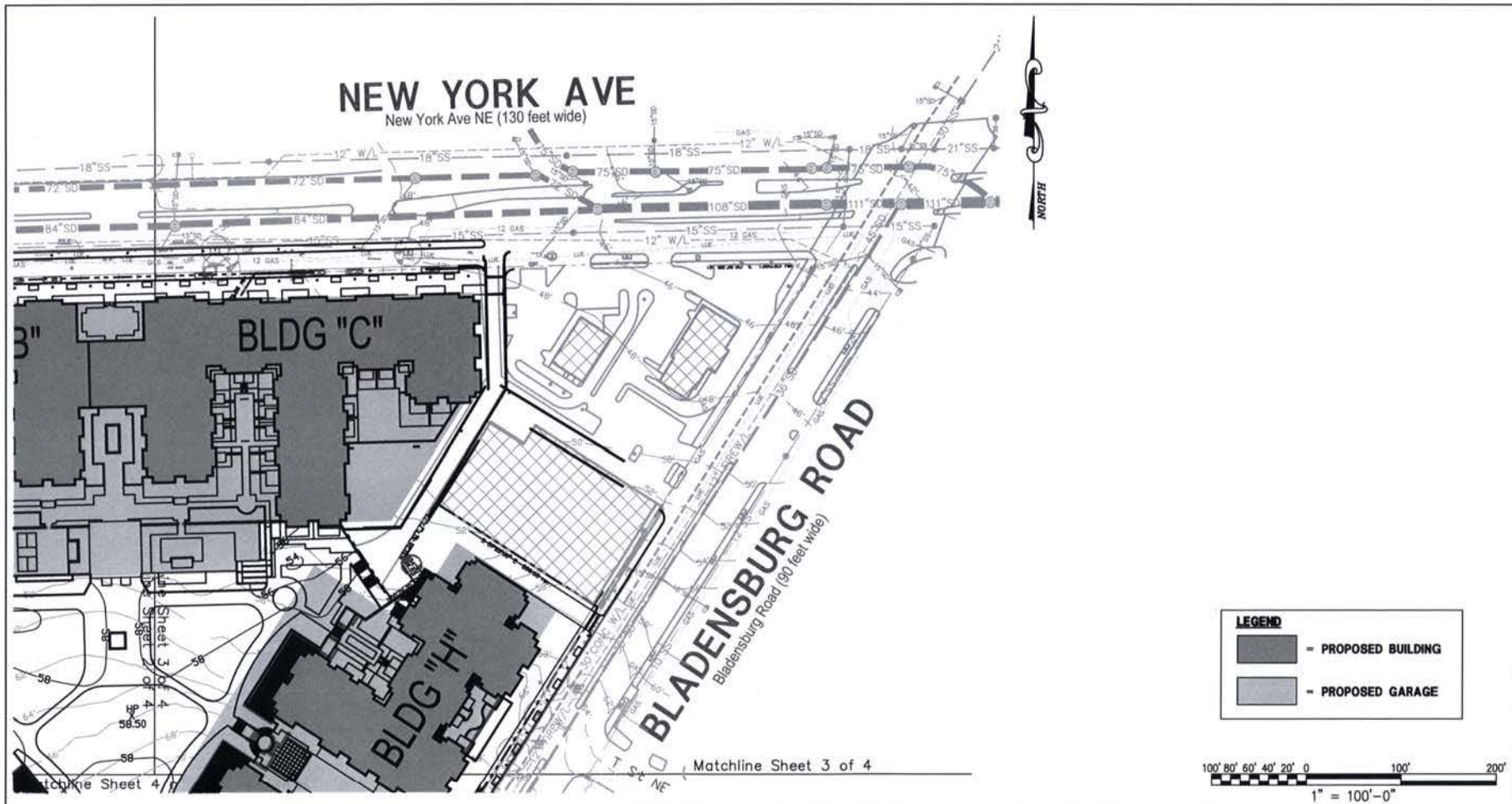
- PROPOSED BUILDING
- PROPOSED GARAGE



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Sheet Title:	Job No: 144-05
SITE PLAN WEST	Sheet No: C.06
Scale: 1 : 100	Date: 03-16-08



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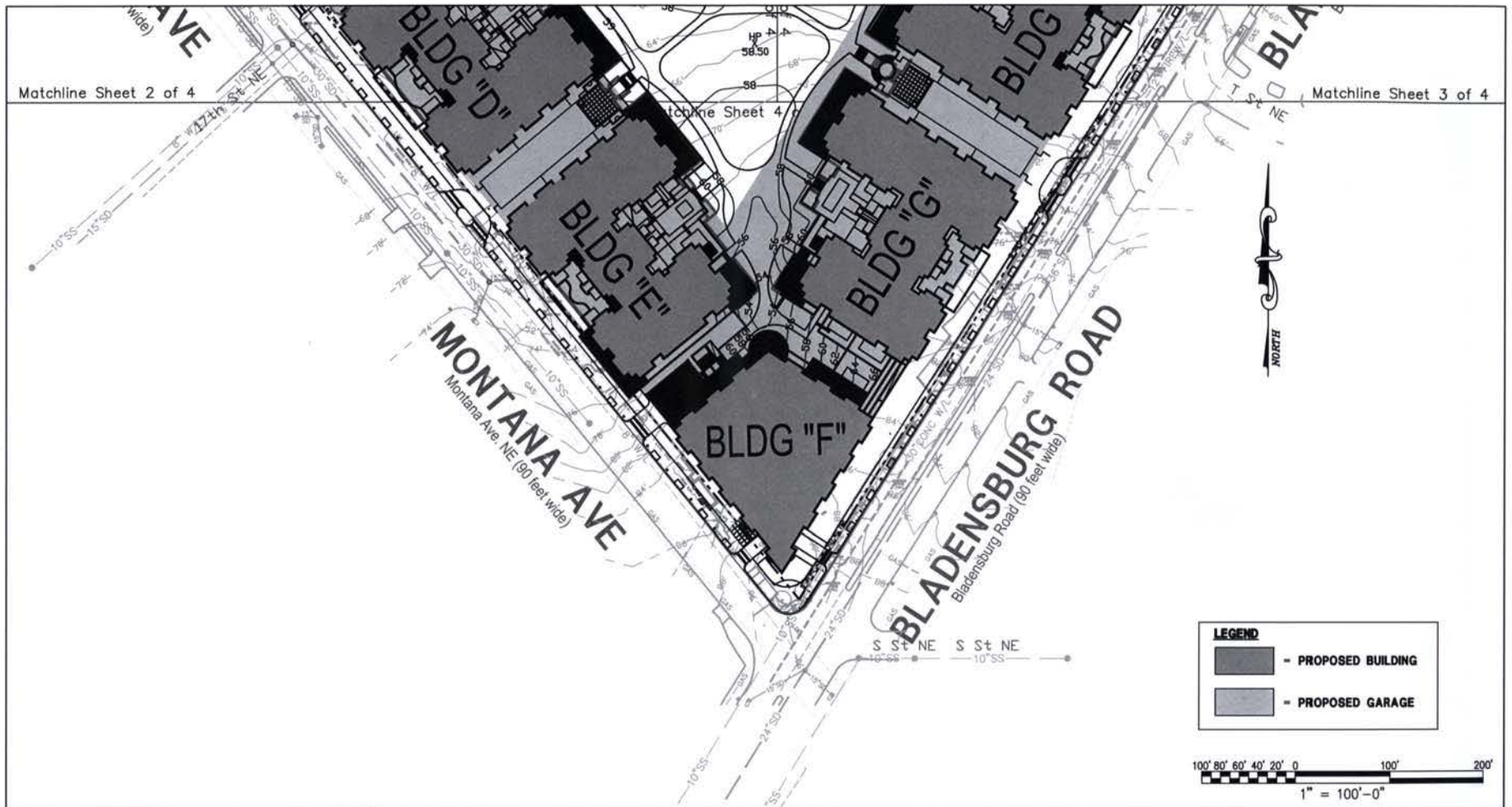
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Sheet Title:
**SITE PLAN
EAST**

Scale: 1 : 100 Date: 03-16-06

Job No:
144-05

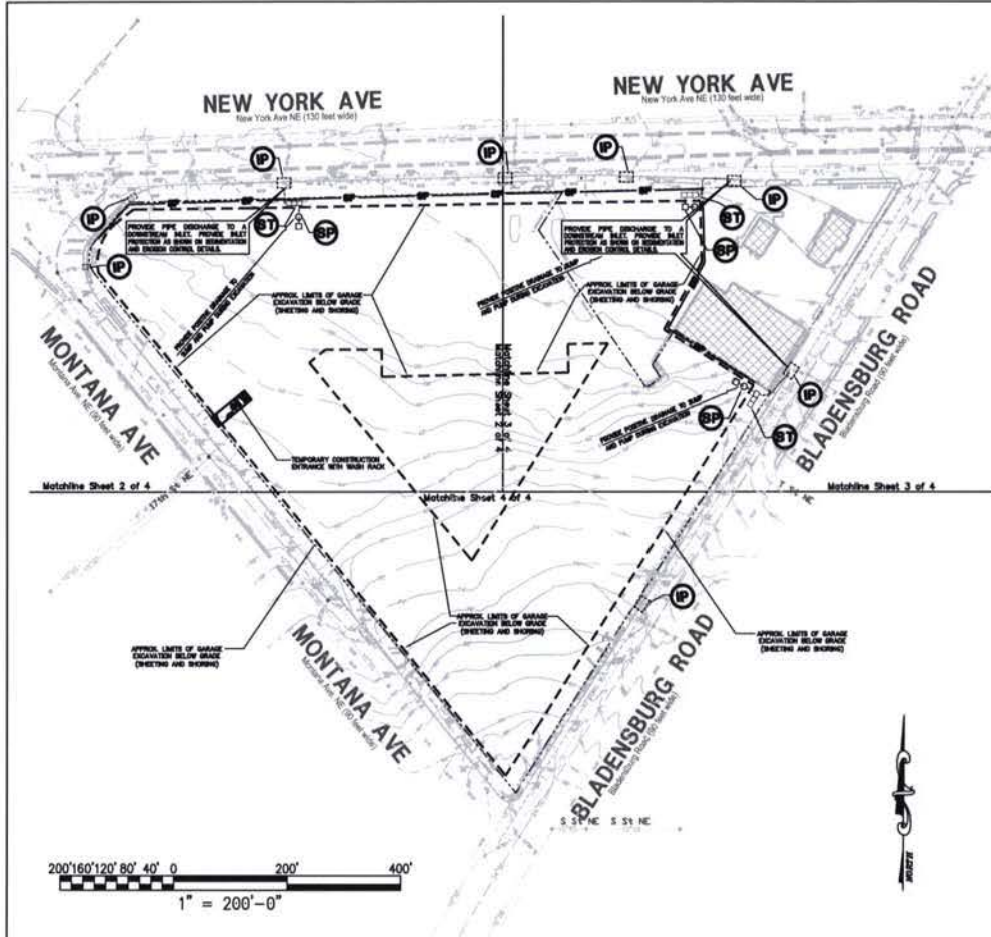
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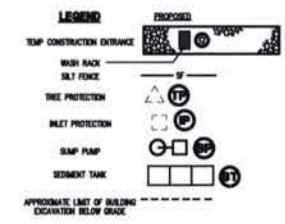
Sheet Title:	Job No:
SITE PLAN	144-05
SOUTH	Sheet No:
Scale: 1 : 100	Date: 03-16-06
	C.08



- CONSTRUCTION AND STABILIZATION SEQUENCE:**
1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED CONSTRUCTION ENTRANCE, MAIN RACK, SILT PROTECTION, SILT FENCE, AS INDICATED ON THE SHEET. SEE SHEET SEDIMENT 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 SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

NOTE:
 CONTRACTOR TO PROVIDE CHAIN LINK FENCE AT PERIMETER OF THE EXCAVATION AREA.
 INSTALL SILT FENCE AT PERIMETER TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN, UNLESS OTHERWISE APPROVED BY THE INSPECTOR.

- DUST CONTROL NOTES:**
1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DEPOSITION 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 ESCAPES.
 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. DISCHARGE WATER THROUGH NOZZLES ON SPRAY BAR AT 30 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING HURDANCE CONDITIONS SUCH AS PONDING.
 6. FOR WATER APPLICATION TO SOIL SURFACES DURING EXCAVATION AND/OR CONSTRUCTION, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MOST NOZZLES.
 - B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE EXISTING EXCAVATION AREA CAN BE METED WITHOUT INTERFERING WITH EXCAVATION AND/OR CONSTRUCTION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING HURDANCE CONDITIONS SUCH AS PONDING.
 - C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.



CONSTRUCTION DATES:

* EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

TOTAL DISTURBED AREA

AREA = 840339 SF = APPROX. 14.7 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

SEDIMENT AND EROSION CONTROL ONLY!!



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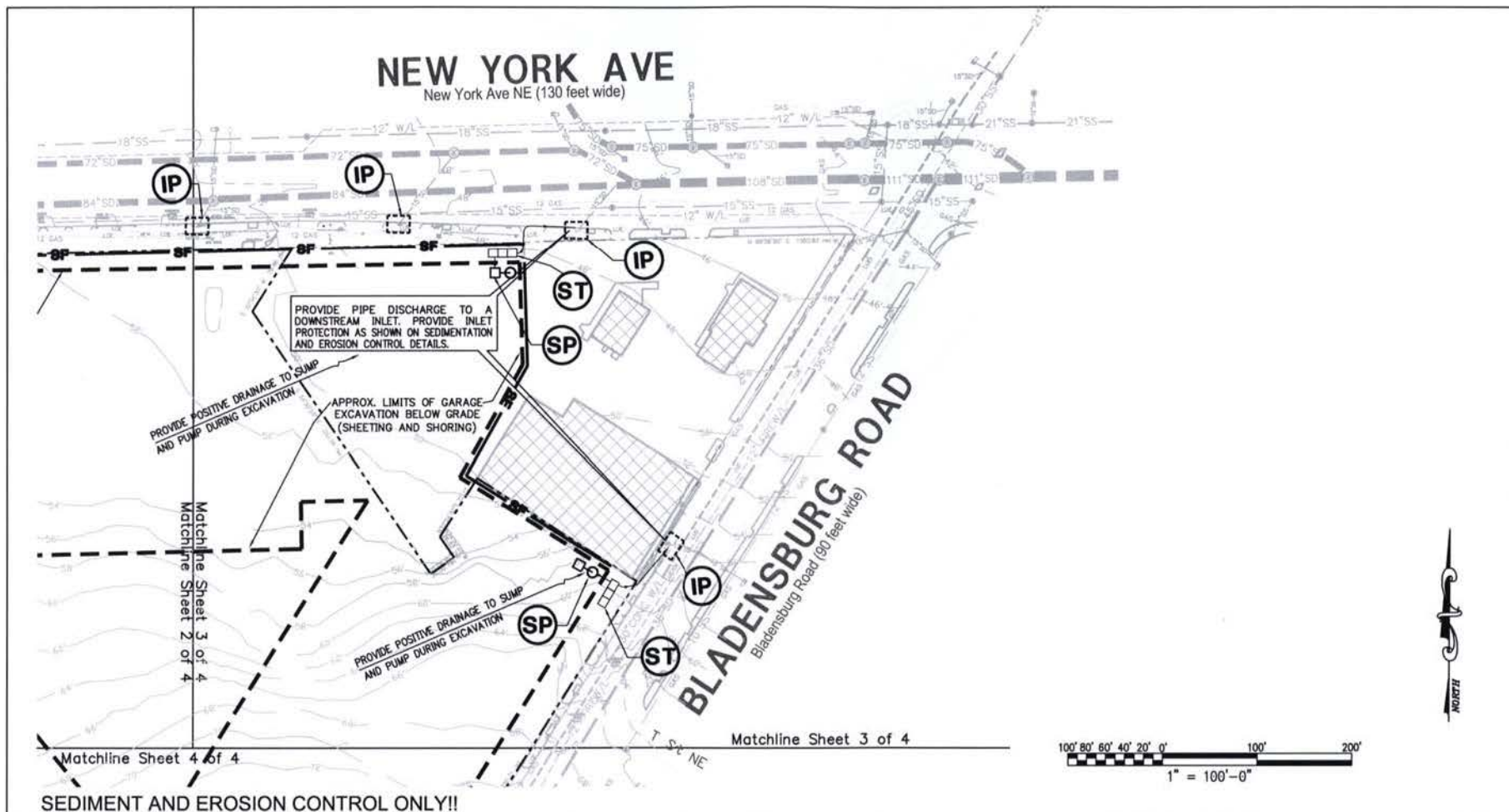
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Sheet Title:
**SEDIMENT & EROSION
 CONTROL PLAN
 (OVERALL)**

Scale: 1 : 200 Date: 03-16-06

Job No:
 144-05

Sheet No:
C.09



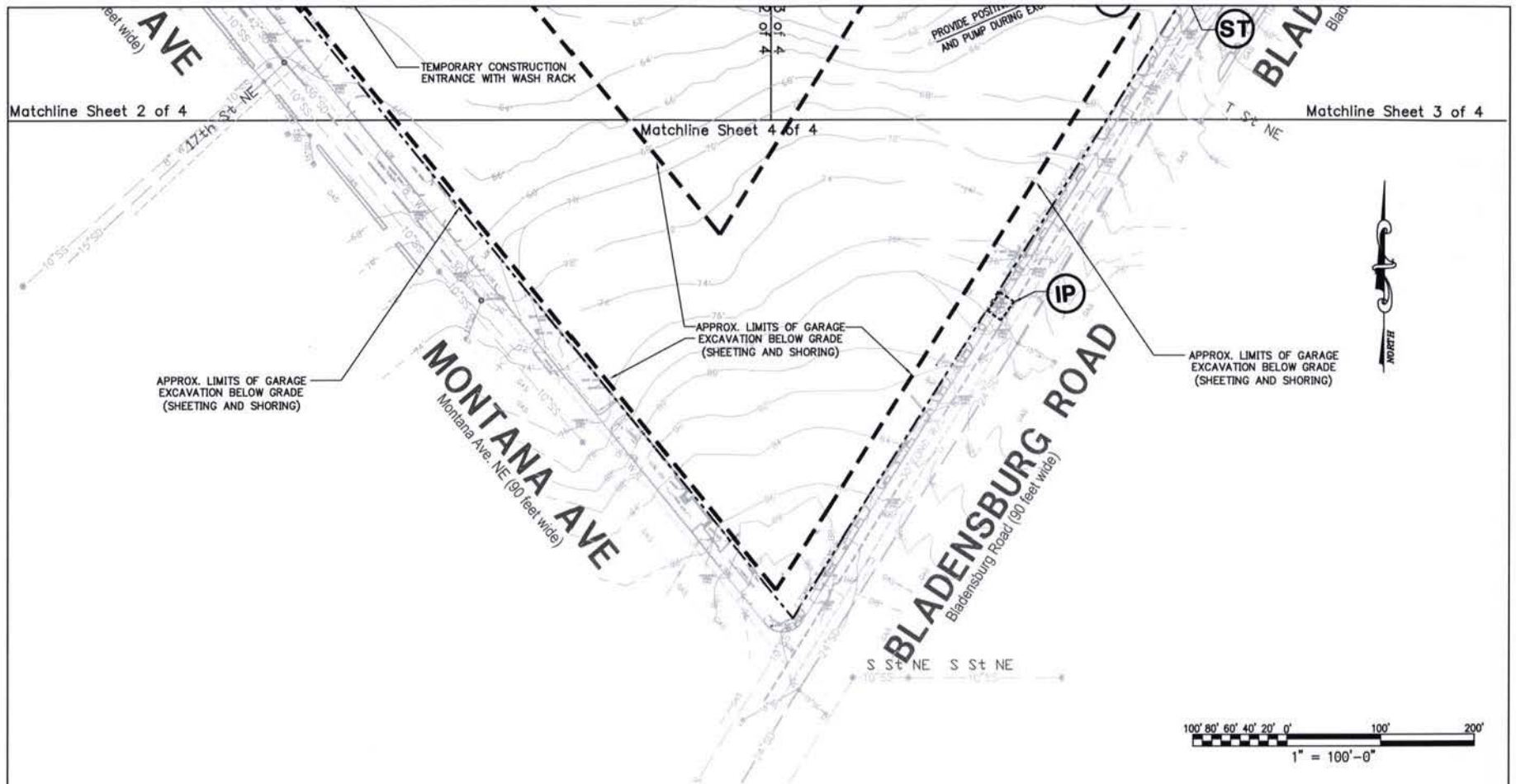
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Sheet Title:
**SEDIMENT & EROSION
CONTROL PLAN
(EAST)**
Scale: 1 : 100 Date: 03-16-06

Job No:
144-05
Sheet No:
C.11



SEDIMENT AND EROSION CONTROL ONLY!!

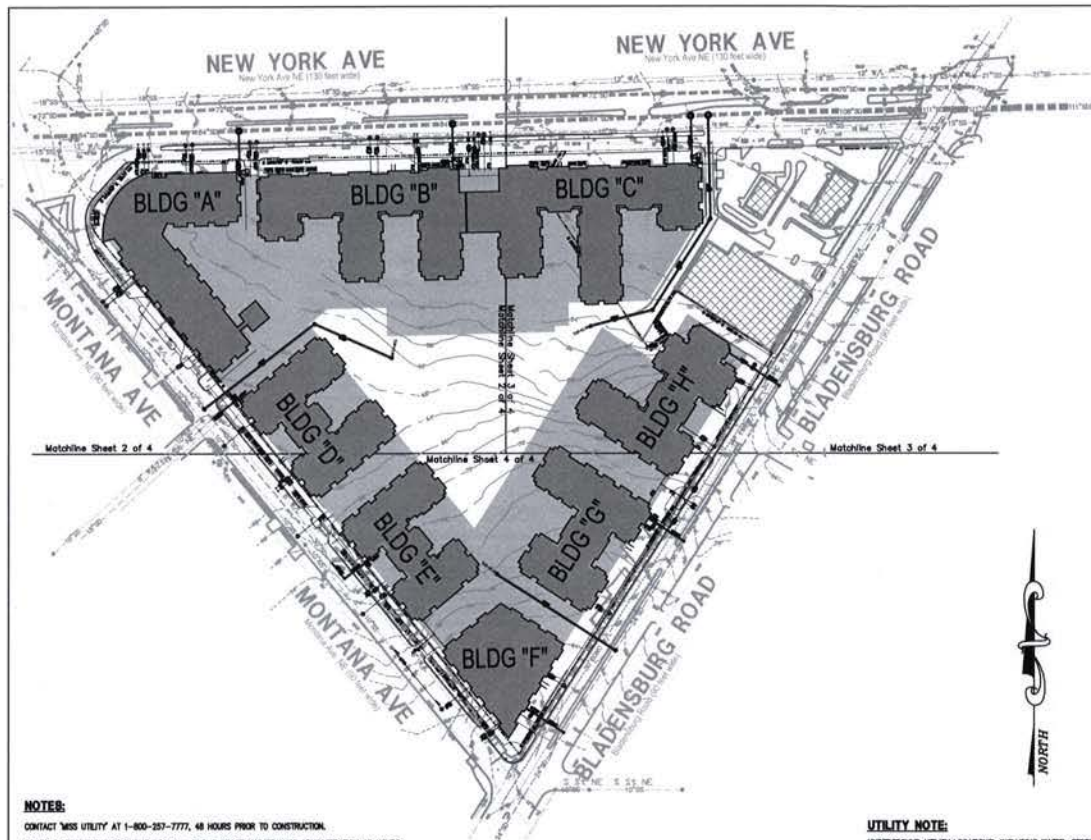


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Sheet Title:
**SEDIMENT & EROSION
CONTROL PLAN
(SOUTH)**
Scale: 1 : 100 Date: 03-16-06

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NOTES:

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) 845-8030 OR (202) 845-8631.
ALL PROPOSED WORKS TO BE PERFORMED UNDER INSPECTION OF THE DEPARTMENT OF PUBLIC WORKS - WATER AND SEWER AUTHORITY.
ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS - WATER AND SEWER AUTHORITY.
USE MANHOLES (DRY SEALS WHERE REQUIRED).
NOTE: CONTRACTOR IS 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 MAINTAIN THEIR SUPPORT.

TEST PITS ARE REQUIRED AT ALL PROPOSED UTILITY CROSSINGS WITH ALL EXISTING UTILITY LINES TO DETERMINE THE EXACT HORIZONTAL LOCATION, ELEVATION 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.

UTILITY NOTE:

UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRIC, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE CITY UTILITY RECORDS, OWNER RECORDS AND FIELD VERIFIED WHERE POSSIBLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK OR ORDERING PIPE MATERIALS AND STRUCTURES. REPORT ANY DISCREPANCY TO THE PROJECT MANAGER. FOR WARNING LOCATIONS OF EXISTING UTILITIES, CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO ANY EXCAVATION. NOTIFY DEPARTMENT OF PUBLIC WORKS.

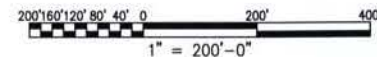
STORM FILTERS HAVE BEEN DESIGNED TO MEET DC DEPARTMENT OF HEALTH REQUIREMENTS. THE DESIGN HAS BEEN COORDINATED WITH STORMWATER 360 (SUPPLIER). THE CONTRACTOR SHALL USE EITHER STORMWATER 360 PRODUCTS OR APPROVED EQUIVALENT BY DO-CON. THIS EFFORT MUST BE COORDINATED WITH DEPARTMENT OF HEALTH.

GENERAL NOTES:

- EXISTING CONDITIONS WERE PRODUCED FROM SURVEYS PREPARED BY DK IN 2006 AND PUBLIC RECORD.
- VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE, DC/DPM, 767-7632 AND "MISS UTILITY" (1-800-257-7777) 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 PLANS. ELEVATIONS.
- WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE DC/DPW STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PLUMBING CODE.
- DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT, CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE, UNLESS OTHERWISE NOTED.
- FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
- DIMENSIONS 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.
- TEST PITS ARE REQUIRED AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATIONS TO IDENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
- IF A 1' MINIMUM VERTICAL CLEARANCE CAN NOT BE MAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER BEFORE PROCEEDING WITH WORK.
- TRANSITION CURBS, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING IN LINE AND ON GRADE OR AS DIRECTED BY ENGINEER.
- ALL DEBRIS AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
- ALL ON-SITE WATER LINES TO HAVE A MINIMUM COVER OF 4'-0". WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER DPW STANDARDS.
- WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
- REMOVE FRAMES AND COVERS OF SEWER MANHOLE/RAILS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO GRADE.
- 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.
- NOTIFY WASHINGTON GAS AT 202-750-4000, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. DAVID WHITLEY AT WASHINGTON GAS AT 703-750-4000.
- PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION LUSTING GAS FACILITIES AND THE PROPOSED FACILITIES.
- PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 18" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND THE PROPOSED FACILITIES.

My preliminary Mechanical requirement for the project above is as follows:

	PRELIMINARY PLUMB & MECH. GAS LOAD	
Building A		
1. Six corridor units each at 6000 cfm air and 454 MBH Gas heat	GAS RANGE MBH 40,800	HEATING MBH 206,116
Building B		
1. Four corridor units each at 5000 cfm air and 416 MBH Gas heat	24,375	1,684
Building C		
1. Five corridor units each at 5000 cfm air and 416 MBH Gas heat	26,730	2,080
Building D		
1. Four corridor units each at 5000 cfm air and 380 MBH Gas heat	20,735	1,620
Building E		
1. Four corridor units each at 4500 cfm air and 340 MBH Gas heat	18,850	1,360
Building F		
1. Three corridor units each at 5000 cfm air and 380 MBH Gas heat	16,835	1,140
Building G		
1. Four corridor units each at 5000 cfm air and 380 MBH Gas heat	20,150	1,520
Building H		
1. Four corridor units each at 5000 cfm air and 380 MBH Gas heat	18,850	1,520
Restaurant	8,500	
Retail	4,500	



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Sheet Title:

SITE UTILITY PLAN
OVERALL

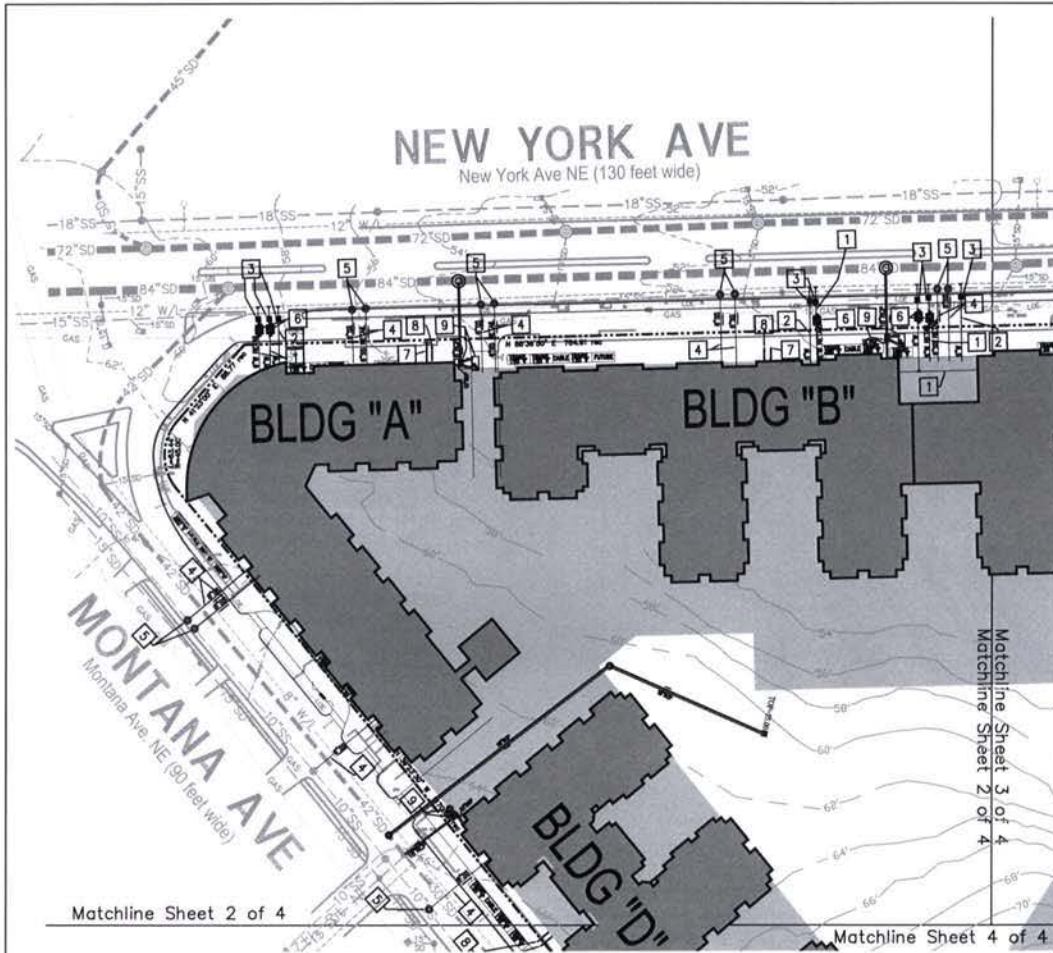
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DC/WASA GENERAL NOTES:

1. NOTIFY DC/WASA ONE WEEK PRIOR TO START OF CONSTRUCTION. UTILITY INSPECTION SECTION AT 262-264-2377, WATER SERVICES 262-412-3480 OR 3488 AND SEWER SERVICES 262-264-3824 OR 3828.
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 AT ROOM 203 AND THE WATER AND SEWER DESIGN SECTION AT 2600 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 SIDEWALK 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.

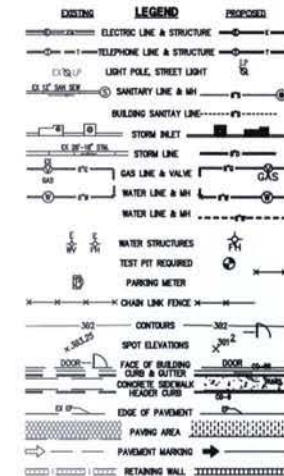
1. METERS, INSTALLATIONS AND INSPECTIONS MUST COMPLY WITH ALL DOWR CODES AND SPECIFICATIONS.
2. ALL NEW METERS INSTALLED, INCLUDING PRIVATELY OWNED METERS MUST BE "TRUE ABSOLUTE ENCODER" TYPE METERS OR "DIRECT-READ" METERS THAT CONVERT METER READINGS TO DIGITAL PULSES FROM THE METER REGISTERS.
3. ALL METER REGISTERS SHOULD BE ABLE TO CONVERT ALL THE DATA 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 DOWNLOAD FCC APPROVED RADIO FREQUENCY, AND COMPATIBLE WITH HEXAGRAM, INC. HARDWARE AND SOFTWARE.
5. ALL NEW METERS 2" OR GREATER MUST HAVE TEST PLUG IN THE METER.
6. ALL NEW METER 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 PULSES 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 LID SO AS TO PERMIT A SIGNAL TO COMMUNICATE WITH A DATA COLLECTION DEVICE AND POSE NO TRIPPING HAZARD.

APPROVED METERS, METER LIDS AND MTU CURRENTLY USED BY DC/WASA:

1. HEXAGRAM INC. METER TRANSMITTING UNIT;
2. AMM WATER METERS INC. WITH MTU PERMANENTLY POTTED AT THE FACTORY - MODEL C3000 2"-4" COMPILING 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.

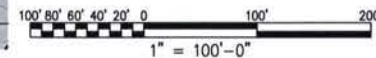


PROPOSED UTILITY KEYNOTE:

1. NEW 8" DIP CLASS 52 DOMESTIC SERVICE PER DC/WASA STANDARDS AND SPECIFICATIONS.
2. NEW 8" DIP CLASS 52 FIRE SERVICE PER DC/WASA STANDARDS AND SPECIFICATIONS.
3. NEW FIRE SERVICE AND DOMESTIC WATER VALVE CASING PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. W/20.01.
4. NEW PVC SCHEDULE 40 SANITARY SENDER PER DC/WASA STANDARDS AND SPECIFICATIONS.
5. NEW 4" DIAMETER DROP MANHOLE WITH DOORHOLE BASE PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. W/20.01 AND W/20.02.
6. PROPOSED WATER METER PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. W/20.01 FOR DETAIL.
7. PROPOSED ELECTRIC CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR DETAILS AND ACTUAL LOCATION. CONTRACTOR TO COORDINATE POSSIBLE ROUTING WITH PEOPOL.
8. NEW TELECOM LINE. REFER TO ELECTRICAL DRAWING FOR DETAILS. CONTRACTOR TO COORDINATE REQUIREMENTS AND POSSIBLE ROUTING WITH VERIZON.
9. NEW STORMWATER STRUCTURES. PLEASE SEE SHEETS C.18 TO C.20 FOR DETAILS.

NOTE:

1. SEE LANDSCAPE DRAWINGS FOR THE LOCATION OF THE PROPOSED PLANTS.
2. SEE ELECTRICAL PLAN FOR THE LOCATION OF THE PROPOSED TRANSFORMERS.



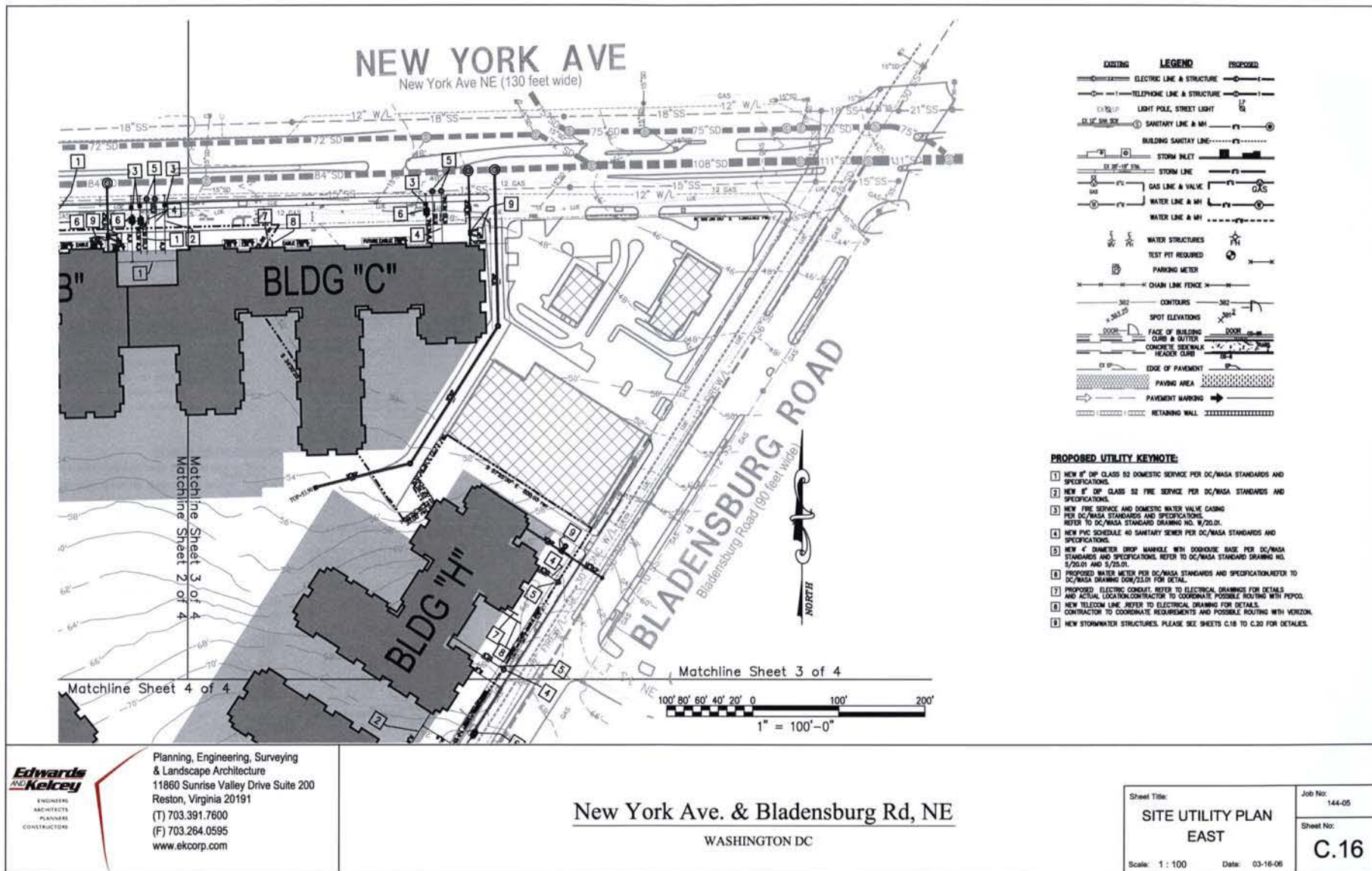
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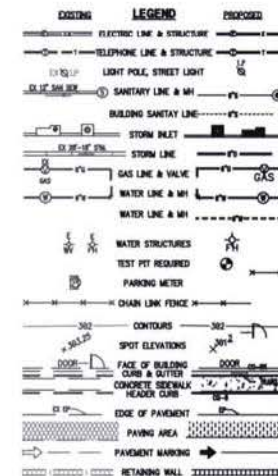
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**SITE UTILITY PLAN
EAST**
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PROPOSED UTILITY KEYNOTE:

- 1) NEW 8" DIP CLASS 52 DOMESTIC SERVICE PER DC/MASA STANDARDS AND SPECIFICATIONS.
- 2) NEW 8" DIP CLASS 52 FIRE SERVICE PER DC/MASA STANDARDS AND SPECIFICATIONS.
- 3) NEW FIRE SERVICE AND DOMESTIC WATER VALVE CASING PER DC/MASA STANDARDS AND SPECIFICATIONS. REFER TO DC/MASA STANDARD DRAWING NO. W/20.01.
- 4) NEW PVC SCHEDULE 40 SANITARY SEWER PER DC/MASA STANDARDS AND SPECIFICATIONS.
- 5) NEW 4" DIAMETER DROP MANHOLE WITH DOORHOUSE BASE PER DC/MASA STANDARDS AND SPECIFICATIONS. REFER TO DC/MASA STANDARD DRAWING NO. W/20.01 AND W/20.01.
- 6) PROPOSED WATER METER PER DC/MASA STANDARDS AND SPECIFICATIONS. REFER TO DC/MASA STANDARD DRAWING NO. W/20.01 FOR DETAILS.
- 7) PROPOSED ELECTRIC CONDUIT REFER TO ELECTRICAL DRAWINGS FOR DETAILS AND ACTUAL LOCATION. CONTRACTOR TO COORDINATE POSSIBLE ROUTING WITH POPOLO.
- 8) NEW TELECOM LINE REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- 9) NEW STORMWATER STRUCTURES. PLEASE SEE SHEETS C.18 TO C.20 FOR DETAILS.

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**SITE UTILITY PLAN
SOUTH**

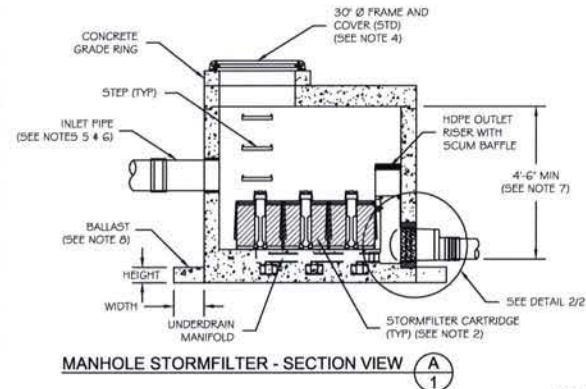
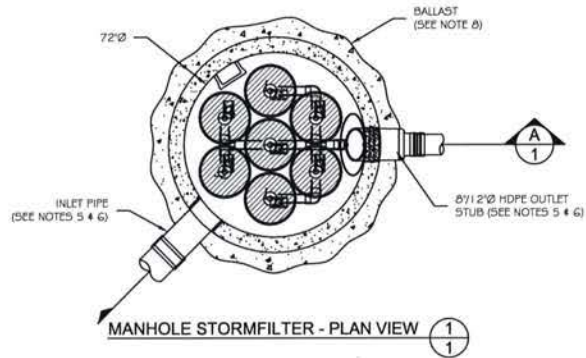
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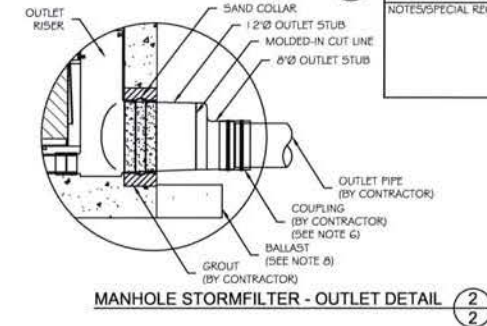
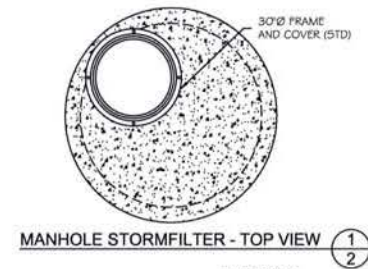
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PRECAST 72" MANHOLE STORMFILTER TOP AND SECTION VIEWS, NOTES AND DATA STANDARD DETAIL

- GENERAL NOTES**
- 1) STORMFILTER BY STORMWATER360 (5360), PORTLAND, OREGON 800-546-4667.
 - 2) FILTER CARTRIDGES TO BE SIPHON-ACTUATED AND SELF-CLEANING. STANDARD DETAIL SHOWS MAXIMUM NUMBER OF CARTRIDGES. ACTUAL NUMBER REQUIRED TO BE SPECIFIED ON SITE PLANS OR IN DATA TABLE BELOW.
 - 3) PRECAST MANHOLE STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478. DETAIL REFLECTS DESIGN INTENT ONLY. ACTUAL DIMENSIONS AND CONFIGURATION OF STRUCTURE WILL BE SHOWN ON PRODUCTION SHOP DRAWING.
 - 4) STRUCTURE AND ACCESS COVERS TO MEET AASHTO H-20 LOAD RATING.
 - 5) STORMFILTER REQUIRES 2.3 FEET OF DROP FROM INLET TO OUTLET. IF LESS DROP IS AVAILABLE, CONTACT 5360. MINIMUM ANGLE BETWEEN INLET AND OUTLET IS 45°.
 - 6) INLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR. PRECAST MANHOLE STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. EIGHT INCH DIAMETER OUTLET SECTION MAY BE SEPARATED FROM OUTLET STUB AT MOLDED-IN CUT LINE TO ACCOMMODATE A 12 INCH OUTLET PIPE. CONNECTION TO DOWNSTREAM PIPING TO BE MADE USING A FLEXIBLE COUPLING OR ECCENTRIC REDUCER, AS REQUIRED. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
 - 7) PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS. IF A SHALLOWER SYSTEM IS REQUIRED, CONTACT 5360 FOR OTHER OPTIONS.
 - 8) ANTI-FLOTATION BALLAST TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR, IF REQUIRED. BALLAST TO BE SET AROUND THE PERIMETER OF THE STRUCTURE.
 - 9) ALL STORMFILTERS REQUIRE REGULAR MAINTENANCE. REFER TO OPERATION AND MAINTENANCE GUIDELINES FOR MORE INFORMATION.



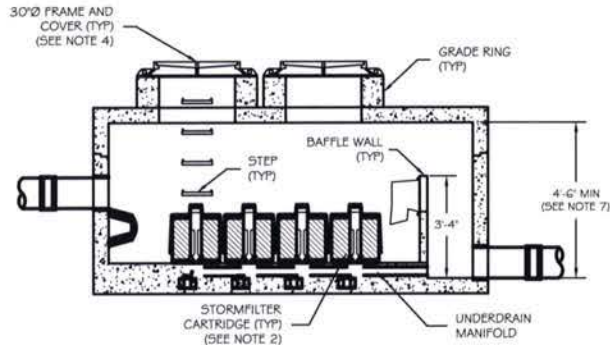
PRECAST MANHOLE STORMFILTER DATA				
STRUCTURE ID	E-1B			
WATER QUALITY FLOW RATE (cfs)	0.22			
PEAK FLOW RATE (< 1.5 cfs)				
RETURN PERIOD OF PEAK FLOW (yrs)				
# OF CARTRIDGES REQUIRED	7			
CARTRIDGE FLOW RATE (1.5 or 7.5 gpm)	1.5			
MEDIA TYPE (CSF, PERLITE, ZPG)	PERLITE			
RIM ELEVATION	93.50			
PIPE DATA:	I.E.	ORIENTATION	MATERIAL	DIAMETER
INLET PIPE #1	80.50	75°	RCP	15"
INLET PIPE #2				
OUTLET STUB	86.20	0°	PVC	8"/12"
ECCENTRIC REDUCER (BY CONTRACTOR)	YES/NO	NO	SIZE	
ANTI-FLOTATION BALLAST	YES/NO	NO	WIDTH	XX"
			HEIGHT	XX"
NOTES/SPECIAL REQUIREMENTS:		PIPE ORIENTATION KEY:		

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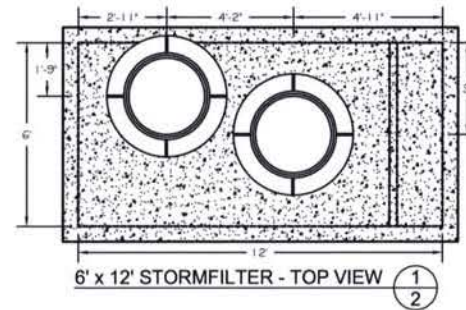
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SWM DETAILS	Sheet No:
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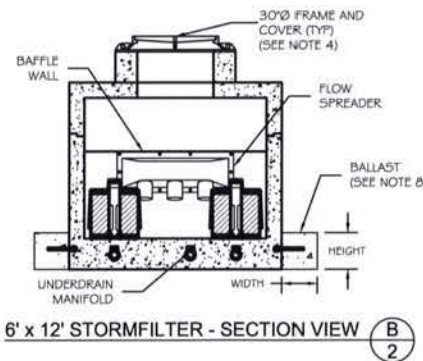
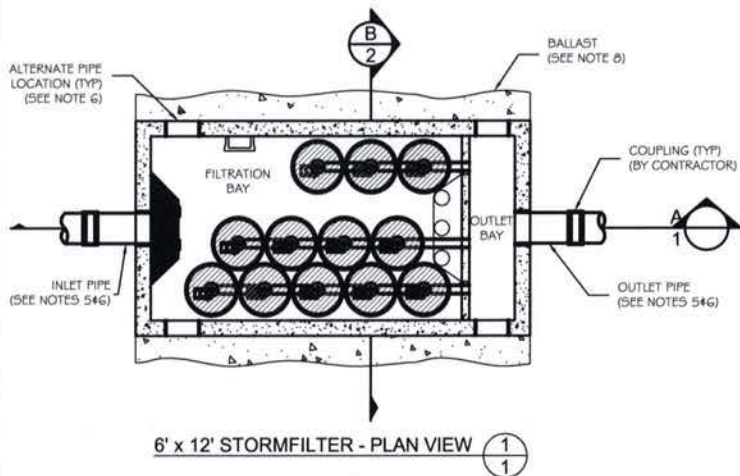
6' x 12' STORMFILTER - SECTION VIEW (A-1)

6' x 12' PRECAST STORMFILTER DATA				
STRUCTURE ID				XXX
WATER QUALITY FLOW RATE (cfs)				X.XX
PEAK FLOW RATE (cfs)				X.XX
RETURN PERIOD OF PEAK FLOW (yrs)				XXX
# OF CARTRIDGES REQUIRED				XX
CARTRIDGE FLOW RATE (1.5 OR 7.5 gpm)				XX
MEDIA TYPE (CSF, PERLITE, ZPG)				XXXXXX
PIPE DATA:				
I.E.		MATERIAL		DIAMETER
INLET PIPE #1	XXX.XX	XXX		XX"
INLET PIPE #2	XXX.XX	XXX		XX"
OUTLET PIPE	XXX.XX	XXX		XX"
RIM				
	XXX.XX			XXX.XX
ANTI-FLOTATION BALLAST				
		WIDTH		HEIGHT
		XX"		XX"
NOTES/SPECIAL REQUIREMENTS:				

- GENERAL NOTES**
- 1) STORMFILTER BY STORMWATER360; WEST: PORTLAND, OREGON (800) 548-4667; EAST: SCARBOROUGH, ME (877) 907-8676; MID-ATLANTIC: ELKIDGE, MD (866) 740-3318.
 - 2) FILTER CARTRIDGE(S) TO BE SIPHON-ACTUATED AND SELF-CLEANING. STANDARD DETAIL DRAWING SHOWS MAXIMUM NUMBER OF CARTRIDGES. ACTUAL NUMBER REQUIRED TO BE SPECIFIED ON SITE PLANS OR IN DATA TABLE BELOW.
 - 3) PRECAST VAULT TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C857 AND C858. DETAIL DRAWING REFLECTS DESIGN INTENT ONLY. ACTUAL DIMENSIONS AND CONFIGURATION OF STRUCTURE WILL BE SHOWN ON PRODUCTION SHOP DRAWING.
 - 4) STRUCTURE AND ACCESS COVERS TO MEET AASHTO H-20 LOAD RATING.
 - 5) STORMFILTER REQUIRES 2.3 FEET OF DROP FROM INLET TO OUTLET. IF LESS DROP IS AVAILABLE, CONTACT STORMWATER360.
 - 6) INLET AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR. PRECAST STORMFILTER VAULT EQUIPPED WITH EITHER KNOCKOUTS OR CAST-IN BOOT CONNECTIONS AT INLET AND OUTLET LOCATIONS.
 - 7) PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS. IF A SHALLOWER SYSTEM IS REQUIRED, CONTACT STORMWATER360 FOR OTHER OPTIONS.
 - 8) ANTI-FLOTATION BALLAST TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR, IF REQUIRED. BALLAST TO BE SET ALONG ENTIRE LENGTH OF BOTH SIDES OF THE STRUCTURE.
 - 9) ALL STORMFILTERS REQUIRE REGULAR MAINTENANCE. REFER TO OPERATION AND MAINTENANCE GUIDELINES FOR MORE INFORMATION.



6' x 12' PRECAST STORMFILTER
TOP AND SECTION VIEWS, NOTES AND DATA
STANDARD DETAIL



New York Ave. & Bladensburg Rd, NE
WASHINGTON DC

Edwards and Kelcey
ENGINEERS
ARCHITECTS
PLANNERS
CONSTRUCTORS

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Sheet Title: SWM DETAILS
Scale: NTS
Job No: 144-05
Sheet No: C.19
Date: 03-16-06



Sizing Summary

Bladensburg Road Triangle
Stormwater Treatment System Design Summary
 Washington, DC

Information provided:

- Total contributing area:
 - Type 1 impervious rooftop = 1.239 acres
 - Type 2 impervious rooftop = 0.752 acres
- Presiding agency = DCDCH

Assumptions:

- Design = Rational Method
- Rainfall intensity (roadways) = 6.53 in/hr
- Rainfall intensity (rooftop) = 0.32 in/hr
- C-factor = 0.95
- Media = Perlite
- Cartridge flow rate = 15 gpm
- Drop from inlet to outlet = 2.3'

Size and cost estimates:

The Stormwater Management StormFilter® is a passive siphon-actuated, flow-through, stormwater filter system consisting of a structure that houses rechargeable, media-filled filter cartridges. The StormFilter works by passing stormwater through the media-filled cartridges, which trap particulates and adsorb pollutants such as dissolved metals, nutrients, and hydrocarbons.

The StormFilter is a flow-based system, and therefore, is sized by calculating the peak water quality flow rate associated with the design storm. Using the Rational Method, the flow generated from this site was calculated as follows:

Area	Q final	Q peak	# cartridges	Vault Size
Type 1	0.36	6.5	12	5x12
Type 2	0.23	6.2	7	72" MH

The leaders in the stormwater industry, Stormwater Management, Inc. and VortexTech, Inc., have united as Stormwater360™ - the comprehensive provider of stormwater solutions. With an unparalleled product line and unmatched customer support team under one umbrella, Stormwater360 has the treatment option to meet your water quality goals.

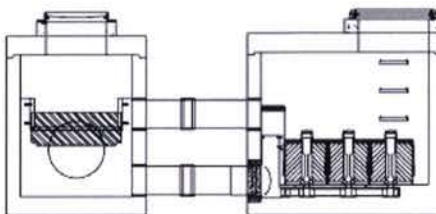
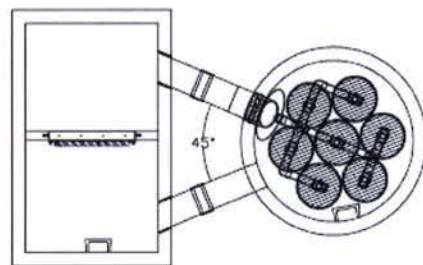
Please note that the system requires 2.3' of drop as measured from the outlet pipe invert to inlet pipe invert. The pre-cast StormFilter has an internal bypass capacity of 1.8 cfs. If the peak discharge off the site is expected to exceed that rate, we recommend placing a high-flow bypass such as the StormGate upstream of the StormFilter. The StormGate provides a combination weir-orifice control structure to limit the flow to the StormFilter, for approximately \$5,000. The final cost would depend on the actual depth and size of the unit.

Maintenance:

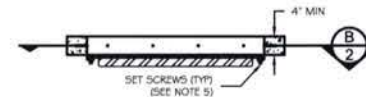
The StormFilter requires regular maintenance to operate effectively. The expected maintenance interval is 12-18 months, but may vary depending on weather and site conditions. Stormwater360 offers full maintenance services to all of our clients, as well as a cartridge exchange program to facilitate owner provided maintenance. Please contact Stormwater360 or navigate to www.stormwater360.com for more information in this regard.



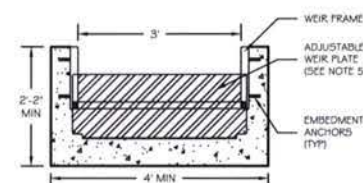
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GENERAL NOTES	
1)	STORMGATE BY STORMWATER360 (5360), PORTLAND, OREGON (800) 546-4667.
2)	PRECAST VAULT TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C857 AND C858. DETAIL DRAWING REFLECTS DESIGN INTENT ONLY. LENGTH AND WIDTH OF VAULT WILL VARY DEPENDING ON PIPE DIAMETER AND ORIENTATION. PLEASE CONTACT 5360 TO DETERMINE VAULT SIZING AND AVAILABILITY. ACTUAL DIMENSIONS AND CONFIGURATION WILL BE SHOWN ON PRODUCTION SHOP DRAWING.
3)	STRUCTURE AND ACCESS COVERS TO MEET AASHTO H-20 LOAD RATING.
4)	INLET AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR. PRECAST STORMGATE VAULT EQUIPPED WITH EITHER CORED OPENINGS OR KNOCKOUTS AT INLET AND OUTLET LOCATIONS.
5)	CONTRACTOR TO ADJUST WEIR TO DESIGN ELEVATION SPECIFIED IN DATA TABLE BELOW. DO NOT EXCEED 5.0 FT-LBS TORQUE WHEN TIGHTENING SCREWS ON WEIR FRAME. SEAL WEIR TO FRAME WITH RTV SILICONE SEALANT AFTER FINAL ADJUSTMENT.



WEIR DETAIL - PLAN VIEW 1/2



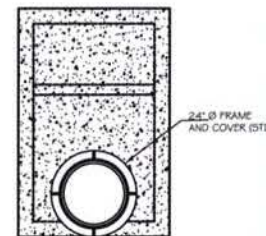
WEIR DETAIL - SECTION VIEW 1/2

STORMGATE VAULT DATA

STRUCTURE ID	XXXX
WATER QUALITY FLOW RATE (cfs)	XXX.XX
PEAK FLOW RATE (GPM)	XXX.XX
VAULT LENGTH	XX'
VAULT WIDTH	XX'
RIM ELEVATION	XXX.XX'
PIPE DATA:	
INLET PIPE #1	XXX.XX' XXX.XX'
INLET PIPE #2	XXX.XX' XXX.XX'
WATER QUALITY FLOW OUTLET PIPE	XXX.XX' XXX.XX'
PEAK FLOW OUTLET PIPE	XXX.XX' XXX.XX'
ORIFICE TYPE (PIPE, CAP, PLATE)	XXXX
ORIFICE DIAMETER (in)	XX"
WEIR CREST ELEVATION	XXX.XX'
WEIR WALL ELEVATION	XXX.XX'
HEAD OVER WEIR, FT (ft)	XX.XX'
WEIR at Design	XXX.XX'
FLOOR ELEVATION	XXX.XX'

NOTES/SPECIAL REQUIREMENTS:

STORMGATE VAULT HIGH FLOW BYPASS WITH 72" MANHOLE STORMFILTER SCHEMATIC DRAWING



STORMGATE VAULT- TOP VIEW 1/2

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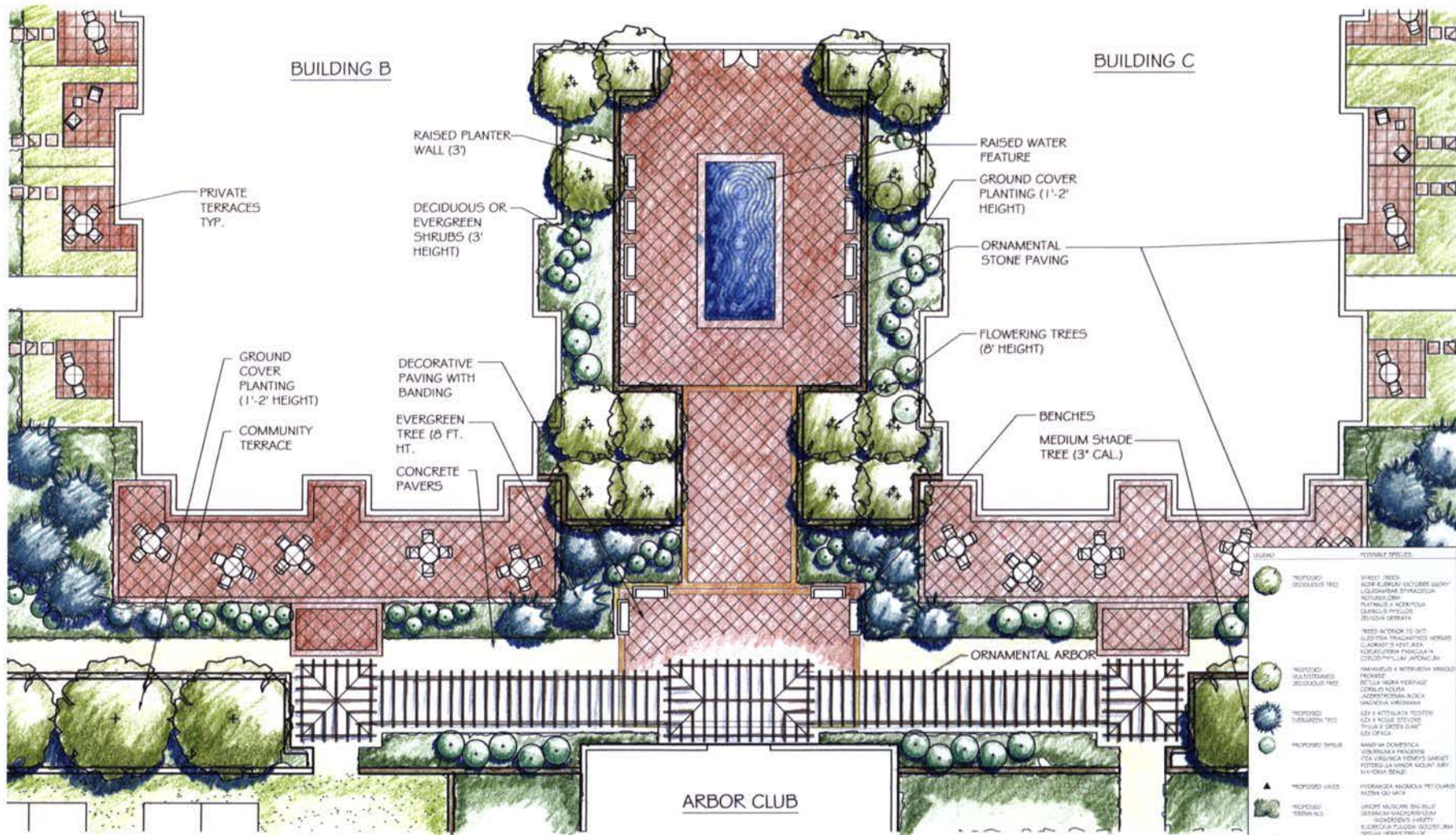
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NEW YORK AVENUE/ARBORETUM

March 21, 2006

