

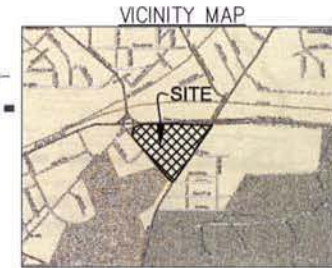
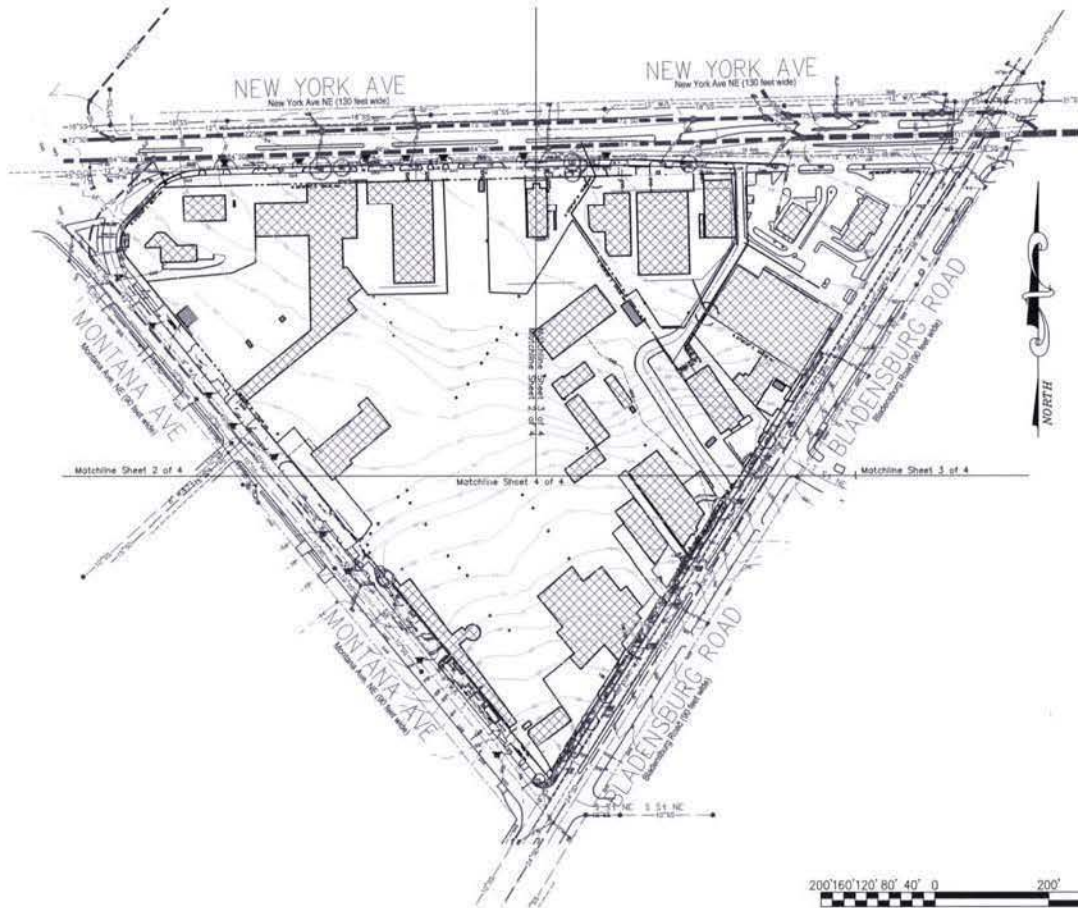
NOTE:

- 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 D.C. BY THE CONTRACTOR AS NECESSARY TO ENSURE SUPPORT OF SURROUNDING STRUCTURES AND UTILITIES.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES VERIFY REPORT ELEVATION OF EXISTING UTILITIES, NOTIFY ENGINEER OF ANY DISCREPANCIES WITH INFORMATION SHOWN PRIOR TO ORDERING ANY STRUCTURES. CORRECT MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL DISPOSAL OF SITE.

DEMOLITION NOTES:

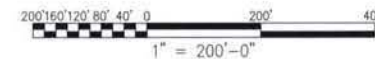
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED IN ADVANCE.
- CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBER AND THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCY TO THE PROJECT MANAGER. FOR MARKING LOCATIONS OF EXISTING UTILITIES, CONTACT "MIS. UTILITY" AT 1-800-257-7777, 48-HOURS PRIOR TO ANY EXCAVATION.
- REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE REMOVAL OF ALL SURFACE, BASE AND SUBBASE MATERIALS.
- ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, STORM DRAINAGE, SANITARY SEWER, ELECTRICAL, TELEPHONE AND GAS WERE TAKEN FROM AVAILABLE EXISTING RECORDS. THE LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE. IT IS RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PRIVATE UTILITY LOCATOR SERVICE AND SHALL DOCUMENT UTILITY LOCATIONS.
- THE CONTRACTOR MUST HAND-DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF DEMOLITION WORK AND PRIOR TO ORDERING PIPE MATERIALS AND STRUCTURE. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE PROJECT MANAGER SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR DEMOLITION AS PER D.C. EROSION AND SEDIMENT CONTROL HANDBOOK. IF ANY DIGITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED.
- SEE SEDIMENTATION AND EROSION CONTROL PLAN FOR ALL EXISTING TREES TO REMAIN AND BE PROTECTED.
- NOTE PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAIN CONTINUED SERVICE DURING CONSTRUCTION. COORDINATE WITH RESPECTIVE UTILITY COMPANIES AND ENGINEER SHOULD RELOCATION OF SERVICE BE REQUIRED.
- EXISTING UTILITIES (STRUCTURES AND LINES) NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO FACILITATE CONSTRUCTION. UTILITIES TO BE CAPPED AND ABANDONED PER UTILITY PURVEYOR'S STANDARDS AND SPECIFICATIONS. COORDINATE REQUIREMENTS WITH UTILITY PURVEYOR'S.
- REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.

APX	APPROXIMATE	LP	LIGHT POLE
ASP	ASPHALT/CONCRETE	WH	WAND/POLE (STRUCTURE)
BLOC	BLOCK	O/H	OVERHEAD
BRK	BRICK	PCC	PORTLAND CEMENT CONCRETE
CC	CONCRETE CURB	PM	PARKING METER
CG	CURB & GUTTER	PROP	PROPOSED
CJ	CONSTRUCTION JOINT	RAD	RADIUS
CL	CENTER LINE	SAN	SANITARY
CLF	CHAIN LINK FENCE	SEW	SEWER
CO	CLEAN OUT	STD	STANDARD
CONC	CONCRETE	STM	STORM
CONC	CONCRETE	STV	STORY (FLOOR)
OP	DUCTILE IRON PIPE	S/W	SIDEWALK
DSM	DOMESTIC	T	TELEPHONE
DWG	DRAWING(S)	TRF	TRAFFIC
ELEV	ELEVATION	TYP	TYPICAL
ELEC	ELECTRICAL	WL	WATER LINE
ENT	ENTRANCE	WM	WATER MAIN
EX	EXISTING	WV	WATER VALVE
PH	FIRE HYDRANT	XCH	EXTRA HEAVY CAST IRON PIPE
FT	FEET/FOOT	TR	TOP OF WALL
G	GAS		
GC	GRANITE CURB		
GRD	GRAND		
GRNT	GRANITE		



SHEET INDEX

- 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
- C.21 SWM DETAILS



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

Scale: 1 : 200

Date:

Job No.
144-05

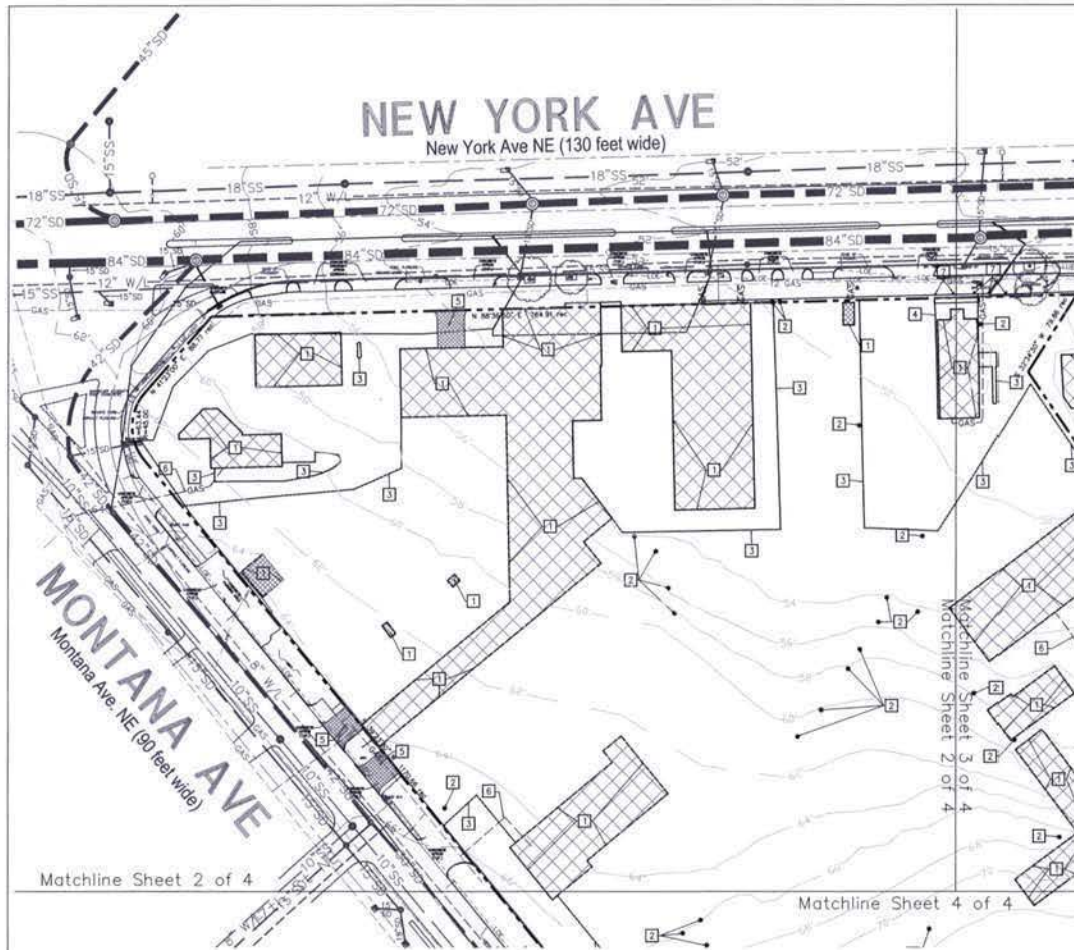
Sheet No.
C.01

ZONING COMMISSION

District of Columbia

CASE NO.06-15

EXHIBIT NO.40A3



EXISTING CONDITION NOTES:

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 northeastern 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 area being parking space. There exist only separate sewers (storm and sanitary) in all three roads that envelope 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 inch 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.

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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WASHINGTON DC

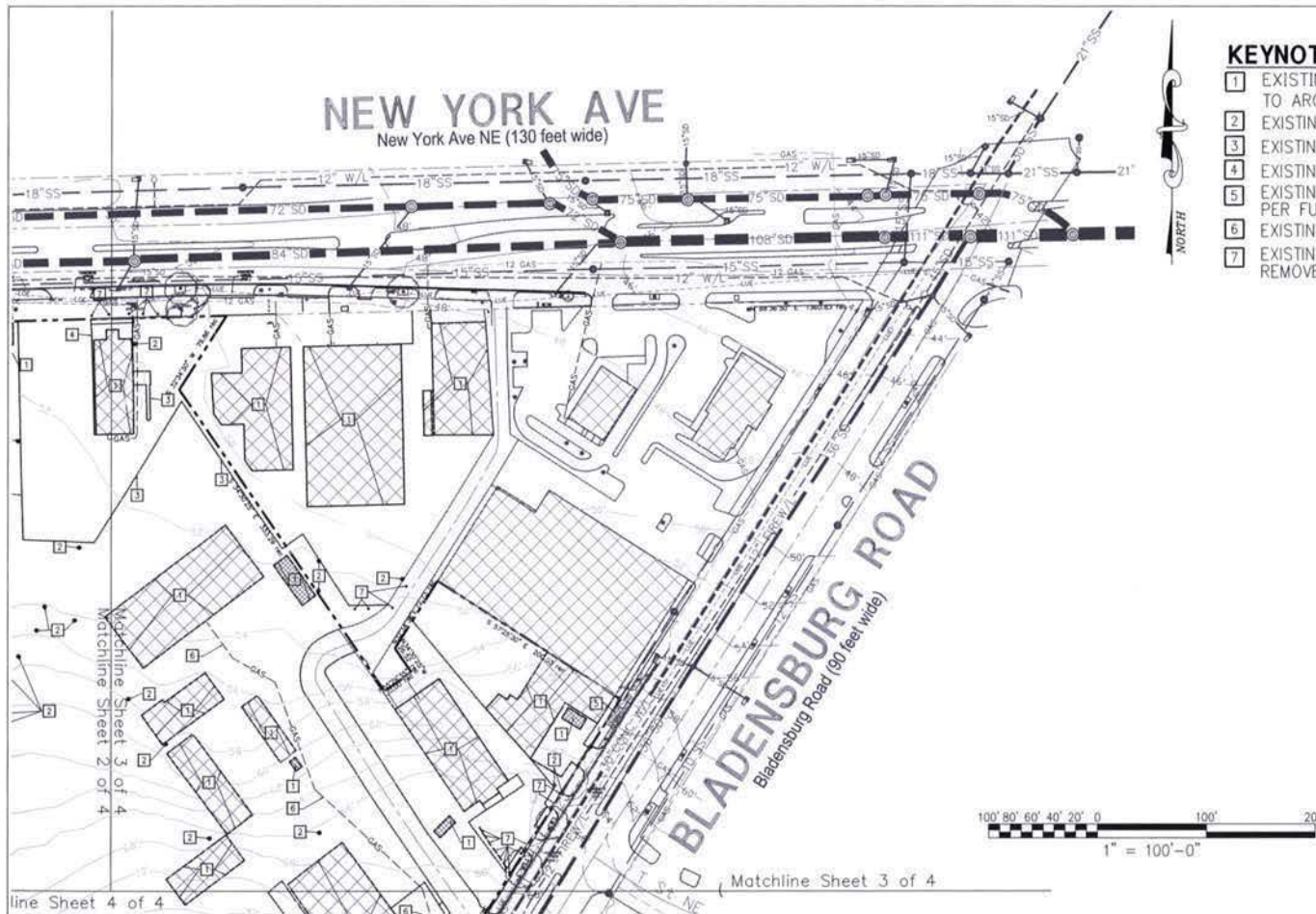
Sheet Title:
**EX. CONDITIONS
& DEMOLITION
PLAN-WEST**

Scale: 1" = 100' Date: 08-01-06

Job No:
144-05

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: 08-01-06

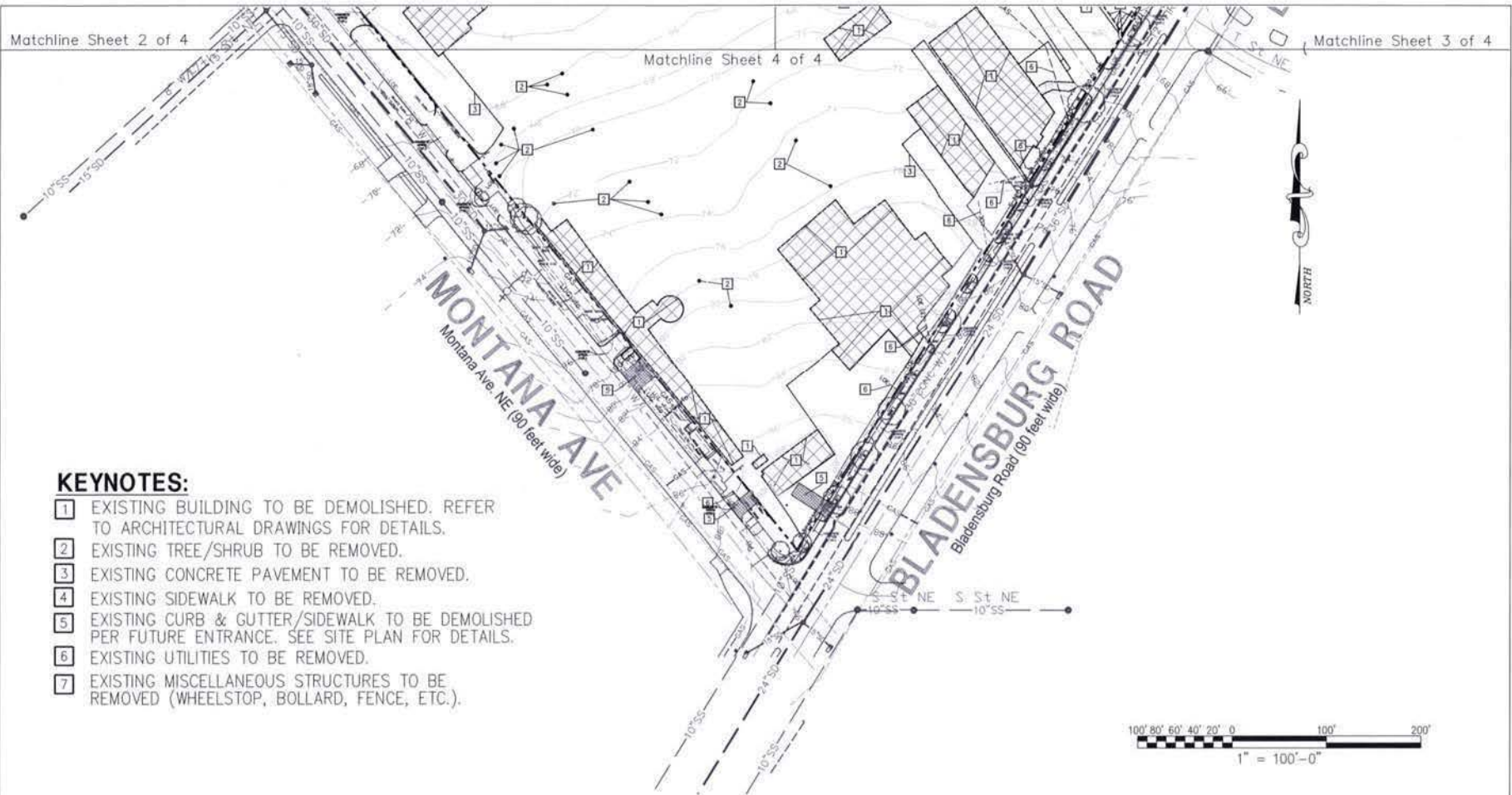
Job No:
144-05

Sheet No:
C.03

Matchline Sheet 2 of 4

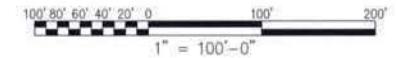
Matchline Sheet 4 of 4

Matchline Sheet 3 of 4



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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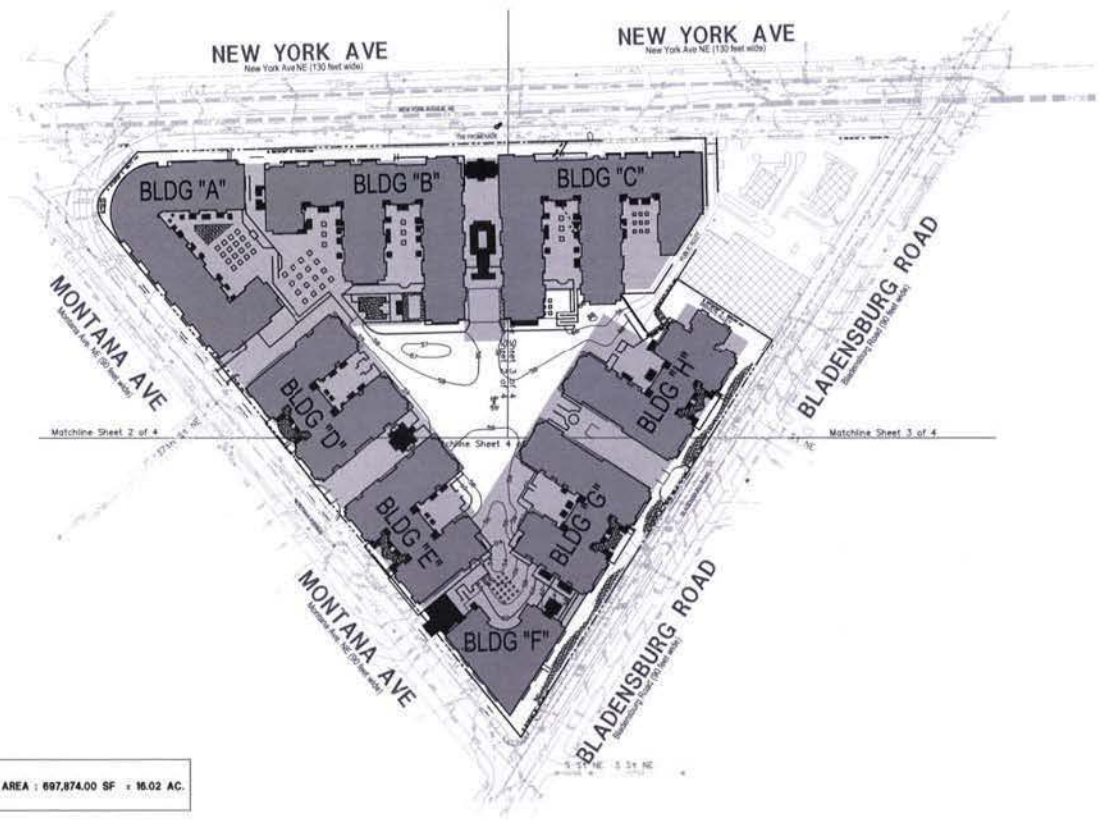
New York Ave. & Bladensburg Rd, NE
WASHINGTON DC

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

Scale: 1" = 100' Date: 08-01-06

Job No:
144-05

Sheet No:
C.04

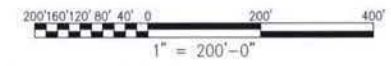


TOTAL SITE AREA : 897,874.00 SF ± 16.02 AC.

LEGEND

= PROPOSED BUILDING

= PROPOSED GARAGE

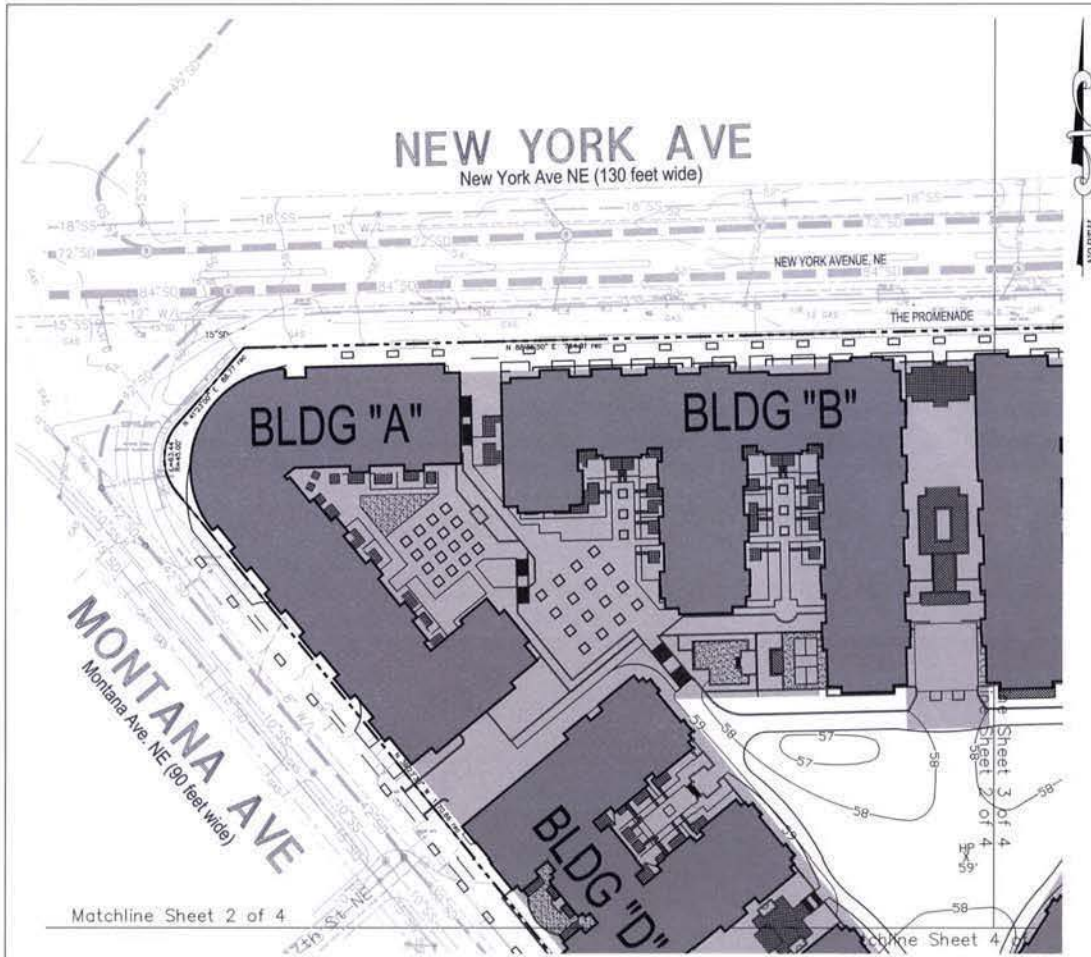


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Sheet Title:
**SITE PLAN
OVERALL**
Scale: 1 : 200 Date: 08-01-06

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



1. EXISTING CONDITIONS WERE PRODUCED FROM SURVEYS PREPARED BY DK IN 2006 AND PUBLIC RECORD.
2. LIFTING LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE, DC/PMF, AND CITY OF CHICAGO OF ANY CHANGES TO EXISTING UTILITIES. IF ANY CHANGES TO ANY EXISTING UTILITIES HAD TO TEST RESULTS AT ALL UTILITIES CROSSINGS AND DETERMINE EXIST CLEARANCE OF ALL PROPOSED INSTALLATIONS WILL BE INSURE OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS WITH PLAIN ELEVATIONS.
3. WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE APPLICABLE DC/PMF STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PLUMBING CODE.
4. CHANGERS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT, CENTER OF COLUMN, PIPE AND UTILITY STRUCTURE, UNLESS OTHERWISE NOTED.
5. FRAMES AND COVERS OF EXISTING STRUCTURES TO BE ADJUSTED TO MATCH NEW FINISHED GRADES.
6. UNLESS OTHERWISE NOTED, ANY ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY-A-WAY OF ANY INFORMATION CONCERNING FOUND UTILITY, NOT SHOWN ON PLANS.
7. TEST RITS ARE REQUIRED AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATIONS TO DETERMINE EXISTING LOCATION, ELEVATION, AND SIZE OF EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION.
8. IF A MINOR SURFACE CLEARANCE CAN NOT BE MAINTAINED AT UTILITY CROSSING, THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF THIS INFORMATION IMMEDIATELY.
9. STRAIGHTEN CURB, GUTTER, PAVING AND SIDEWALK TO MEET EXISTING LINE AND ON GRADE OR AS DIRECTED BY ENGINEER.
10. ALL CURB AND EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF-SITE LOCATION.
11. ALL ON-SITE WATER LINES HAVE A MINIMUM COVER OF 4'-4". WATER FITTINGS SHALL BE PROPERLY TIED AND ANCHORED, PER DWP STANDARDS.
12. REMOTE PORTIONS OF EXISTING BRIDGINGS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE TIED TO GRADE.
13. REMOVE FENCES AND COVERS OF SEWER MANHOLE/INLETS AND/OR WATER MAIN VALE CASTINGS TO BE ABANDONED AND TIED TO GRADE.
14. PROTECT EXISTING 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 COLOGAN. IF AN ON-SITE INSPECTION REVEALS THAT PROTECTION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED.
15. PROVIDE A MINIMUM OF 45 HOURS-200-400, ALL HOURS PER TO ANY EXCAVATION IN THE MIDDLE OF TRANSMISSION FACILITIES. THE MINIMUM DEPTH SHALL BE 12" HORIZONTAL, AND 2 FEET VERTICAL. CLEARANCE BETWEEN 12" DIAMETER AND SMALLER TRANSMISSION EXISTING GAS FACILITIES AND THE PROPOSED FACILITIES.
16. PROVIDE A MINIMUM OF 45 HOURS-200-400, ALL HOURS PER TO ANY EXCAVATION IN THE MIDDLE OF TRANSMISSION FACILITIES. THE MINIMUM DEPTH SHALL BE 12" HORIZONTAL, AND 2 FEET VERTICAL. CLEARANCE BETWEEN 12" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND THE PROPOSED FACILITIES.

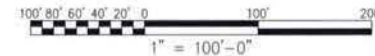
CONTACT WESS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO CONSTRUCTION.
CONTACT DEPARTMENT OF PUBLIC WORKS - PUBLIC SPACE MAINTENANCE ADMINISTRATION 48 HOURS PRIOR TO START OF CONSTRUCTION AT (202)645-6030 OR (202) 645-6031.
ALL PROPOSED WORKS TO BE PERFORMED UNDER INSPECTION OF THE DEPARTMENT OF PUBLIC 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.

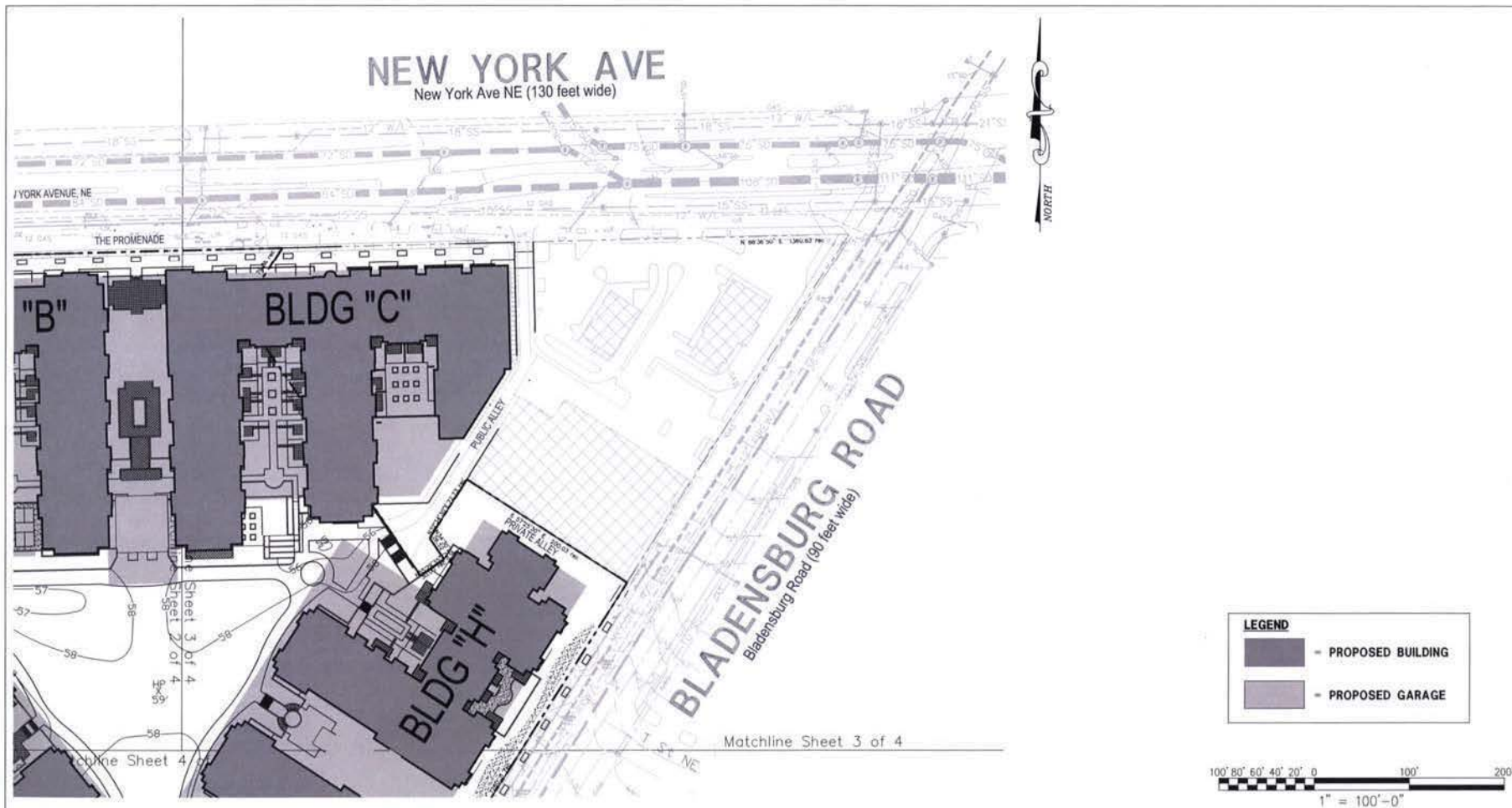
NOTE: CONTRACTOR IS TO BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING AND UNDERPINNING, DESIGNED BY STRUCTURAL ENGINEER LICENSED IN DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.

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 GROUNDING 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.

 = PROPOSED BUILDING

 = PROPOSED GARAGE





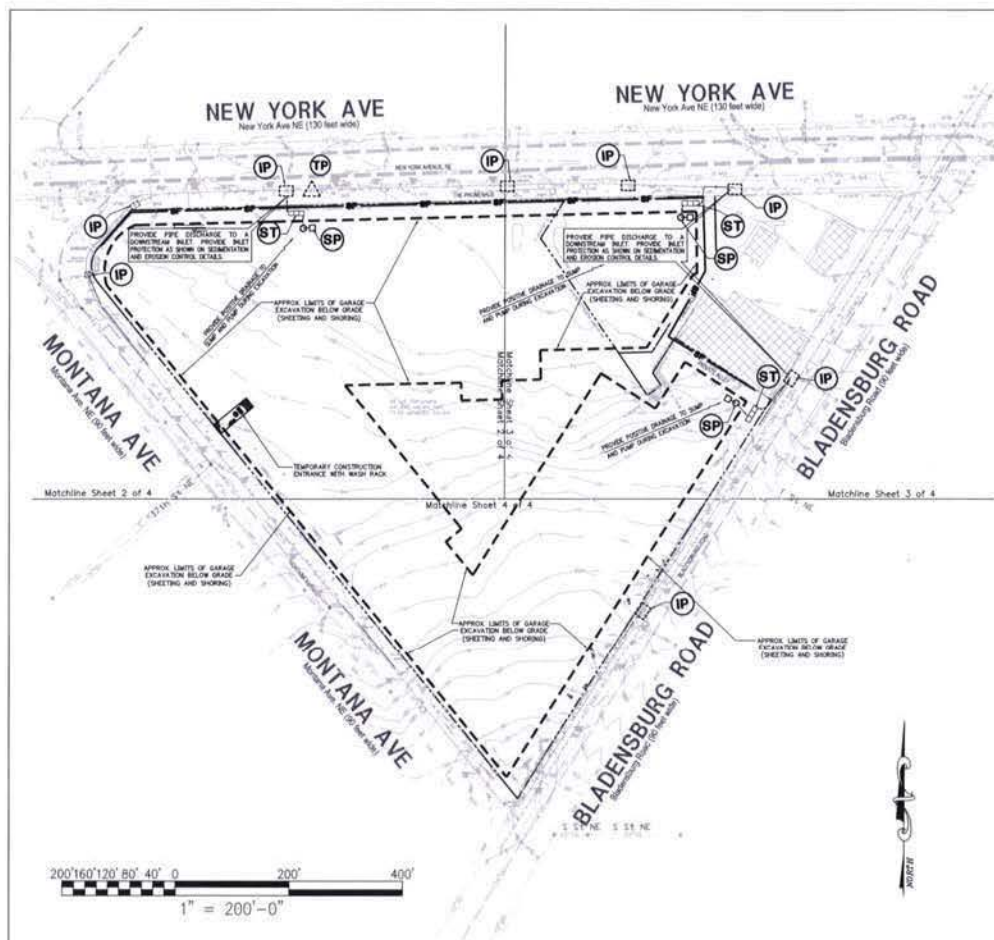
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Sheet Title:	Job No:
SITE PLAN EAST	144-05
Scale: 1" = 100'	Sheet No:
Date: 08-01-06	C.07



CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED CONSTRUCTION ENTRANCE, WASH RACK, INLET 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:

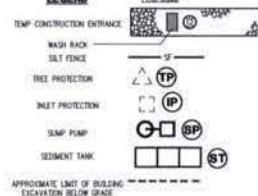
CONTRACTOR TO PROVIDE CHAIN LINK FENCE AT PERIMETER OF THE EXCAVATION AREA.

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 DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL, AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE.
 - B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER.
 - C. DISPOSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (157.8 x PA) MINIMUM KEEP AREAS DAMP WITHOUT CREATING HAZARDOUS CONDITIONS SUCH AS FLOODING.
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 NOZZLES.
 - B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MOISTENED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING HAZARDOUS CONDITIONS SUCH AS FLOODING.
 - C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

LEGEND



CONSTRUCTION DATES:

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

TOTAL DISTURBED AREA

AREA = 697,874.00 SF = APPROX. 16.02 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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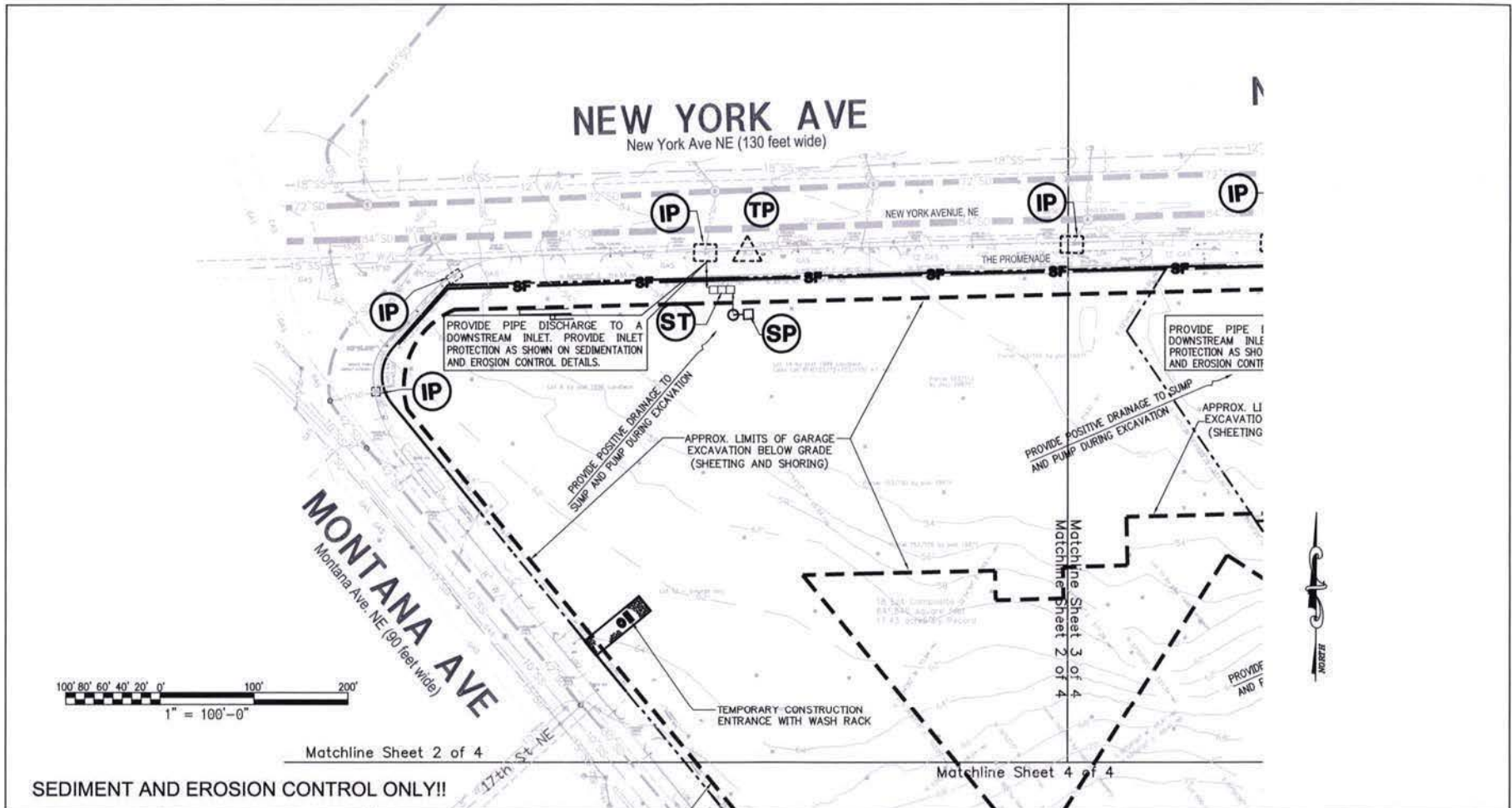
**SEDIMENT & EROSION
CONTROL PLAN
(OVERALL)**

Scale: 1:200

Date: 08-01-06

Job No:
144-05

Sheet No:
C.09



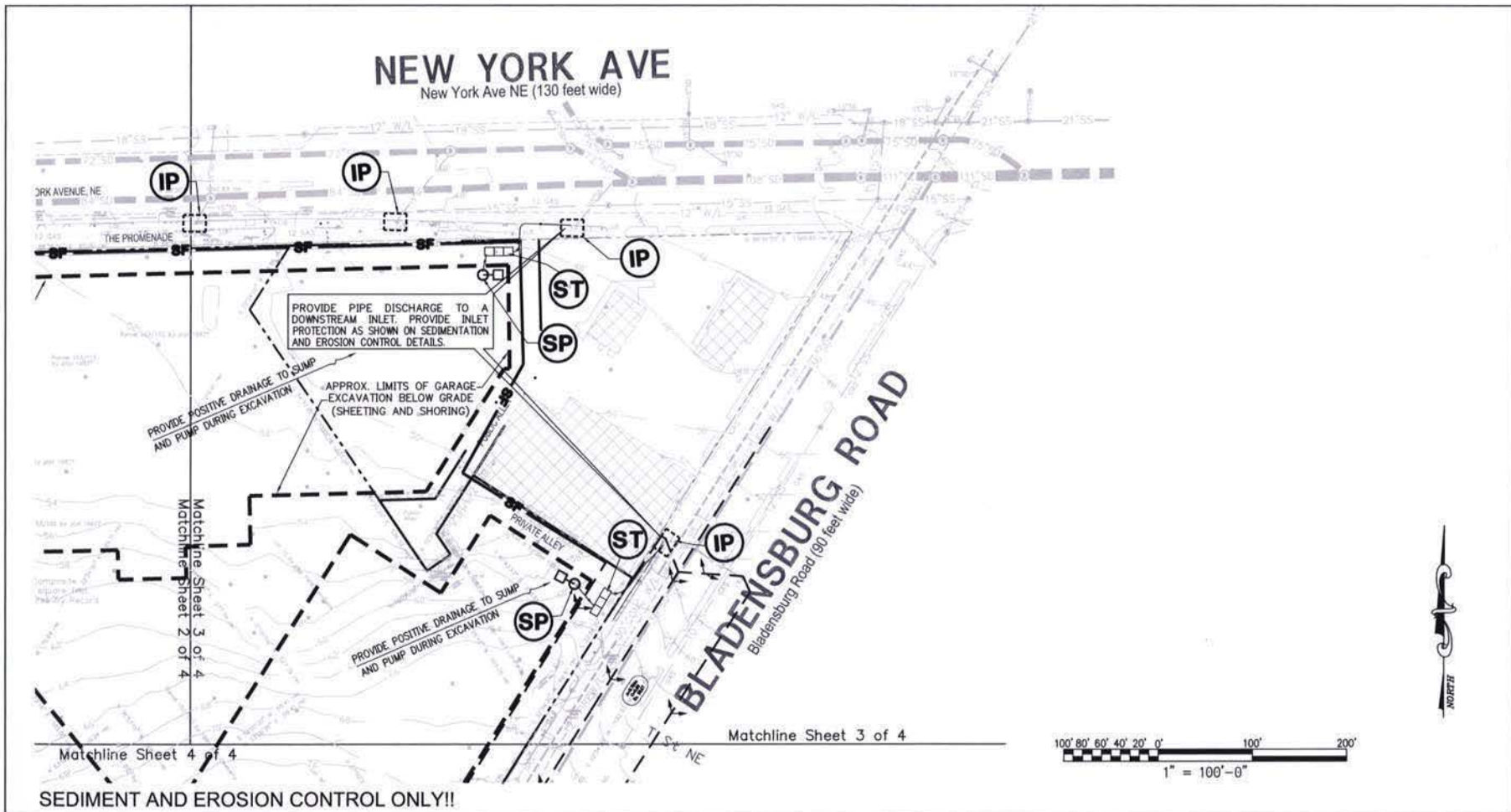
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11860 Sunrise Valley Drive Suite 200
Reston, Virginia 20191
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(F) 703.264.0595
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Sheet Title: SEDIMENT & EROSION CONTROL PLAN (WEST)	Job No: 144-05
Scale: 1 : 100 Date: 08-01-06	Sheet No: C.10



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**Edwards
and Kelcey**

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ARCHITECTS
PLANNERS
CONSTRUCTORS

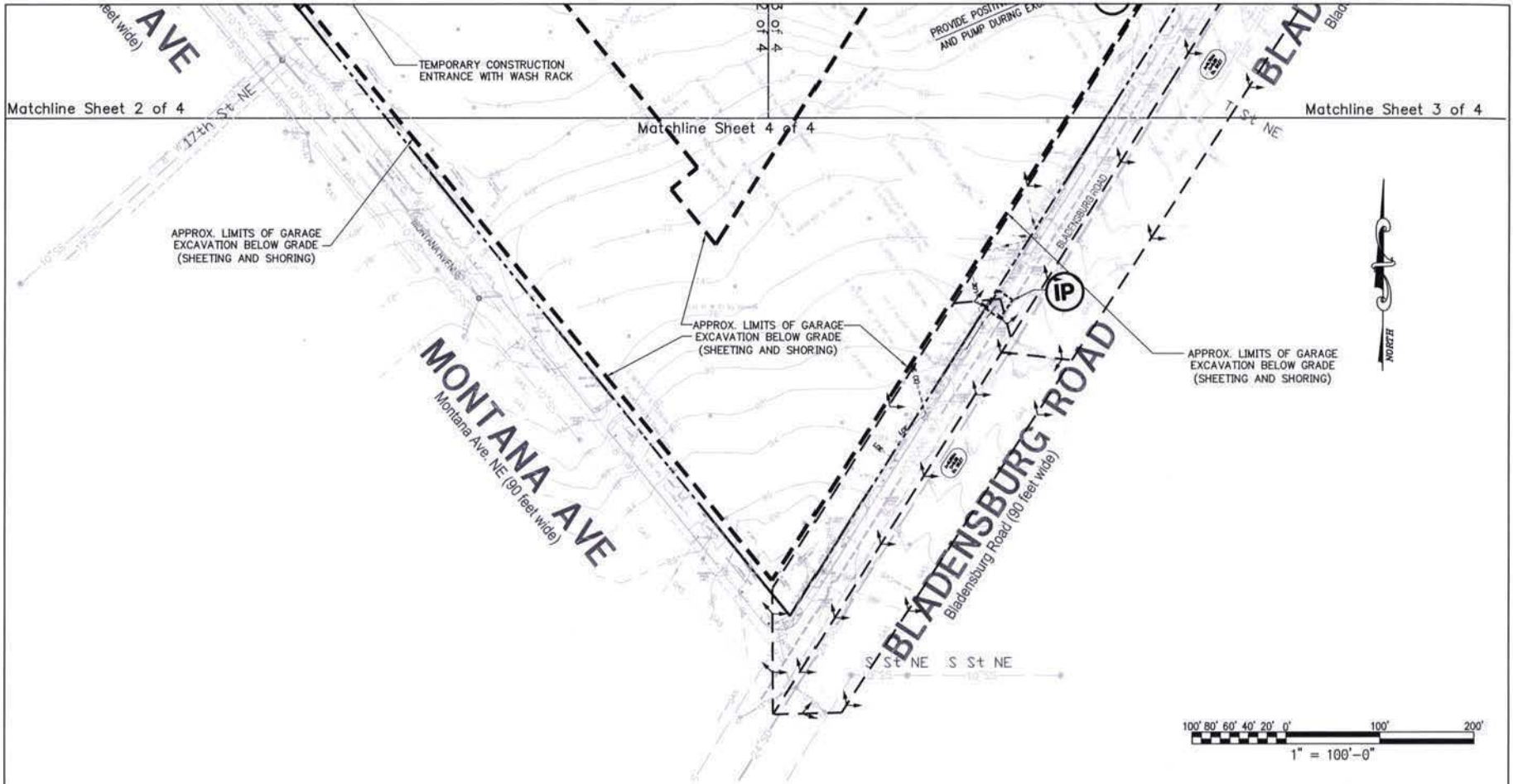
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Sheet Title:
**SEDIMENT & EROSION
CONTROL PLAN
(EAST)**
Scale: 1 : 100 Date: 06-01-06

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



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Planning, Engineering, Surveying
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11860 Sunrise Valley Drive Suite 200
Reston, Virginia 20191
(T) 703.391.7600
(F) 703.264.0595
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Sheet Title:
**SEDIMENT & EROSION
CONTROL PLAN
(SOUTH)**

Scale: 1 : 100 Date: 08-01-06

Job No. 144-05

Sheet No:

C.12

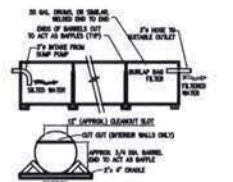


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WHEN NEW FENCE IS PLACED SECURELY TO FENCE FENCE WITH NEW TIE IN CORNER.
2. FENCE CLOSURE TO BE PLACED SECURELY TO FENCE FENCE WITH NEW TIE IN CORNER.
3. WHEN TWO SECTIONS OF FENCE CLOSURE EACH OTHER THEY SHALL BE OVERLAPPED BY 10 INCHES AND TIED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REQUIRED NEW TIE IN CORNER.

SILT FENCE

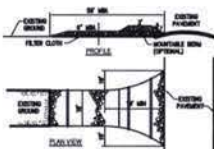
(NOT TO SCALE)



PORTABLE SEDIMENT TANK

(NOT TO SCALE)

- CONSTRUCTION NOTES:
1. TANK SHALL BE PLACED PRIOR TO 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 EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED DAILY BY THE CONTRACTOR. ANY DAMAGED DEVICES OR MEASURES SHALL BE REPAIRED OR REPLACED BY THE CLOSE OF DAY OR AS DIRECTED BY THE ARCHITECT.
 3. ALL MATERIALS LEAVING THE SITE SHALL EXIT THROUGH THE CONSTRUCTION ENTRANCE ONLY AND SHALL BE MAINTAINED IN GOOD WORKING CONDITION.
 4. ALL CATCH BASINS AND AREA DRAINAGE SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.
 5. IF ANY CATCH BASIN OR DRAIN BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS IMMEDIATE CLEANING.
 6. ALL DISTURBED AREAS WITHIN THE LIMIT OF DISTURBANCE BOUNDARY NOT SHOWN TO BE PAVED SHALL BE SEEDS OR SOAKED AS PER DC SPECIFICATIONS WITHIN SEVEN DAYS OF COMPLETION.
 7. WHEN SEDIMENT TRAP/PERMANENT TANK HAS REACHED ITS CAPACITY, CLEAN OUT OF SAME IS REQUIRED. ANY STOPPING, REPAIRS, OR MAINTENANCE OF SAME SHALL BE STABILIZED WITHIN 10 DAYS AND COVERED WITH PLASTIC OR CANVAS, AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
 8. AFTER PAVE OR GRAVEL, THERE IS NEED FOR GRAVEL COVER TO PREVENT EROSION AND SEDIMENT RUNOFF FROM OCCURRING. SUCH AS SOIL, SOIL, PLANTING, IMPROVEMENT OR MULCH, ETC.
 9. AT THE COMPLETION OF CONSTRUCTION PROJECT AND AFTER THE S.C. EROSION AND SEDIMENT CONTROL INSPECTOR APPROVAL, ALL TEMPORARY SILTATION SEDIMENTATION AND PROBLEM CONTROL MEASURES AND DEVICES SHALL BE REMOVED AND ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.



STABILIZED CONSTRUCTION ENTRANCE

(NOT TO SCALE)

- CONSTRUCTION RAMP INSTALLATION:
1. TANK SHALL BE PLACED PRIOR TO 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.
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 6. ALL DISTURBED AREAS WITHIN THE LIMIT OF DISTURBANCE BOUNDARY NOT SHOWN TO BE PAVED SHALL BE SEEDS OR SOAKED AS PER DC SPECIFICATIONS WITHIN SEVEN DAYS OF COMPLETION.
 7. WHEN SEDIMENT TRAP/PERMANENT TANK HAS REACHED ITS CAPACITY, CLEAN OUT OF SAME IS REQUIRED. ANY STOPPING, REPAIRS, OR MAINTENANCE OF SAME SHALL BE STABILIZED WITHIN 10 DAYS AND COVERED WITH PLASTIC OR CANVAS, AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
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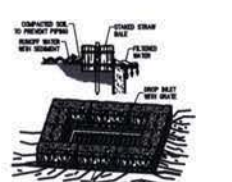


CONSTRUCTION SPECIFICATIONS

1. BALE SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CORNER AND IN ROW WITH OTHER BALES TO FORM A CONTINUOUS LINE.
2. EACH BALE SHALL BE PLACED IN THE ROW, A MINIMUM OF (4) BALE, AND PLACED SO THAT BALE ARE INTERLOCKED.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY OTHER TWO STAPLES OF CORNER STAPLES THROUGH THE BALE. THE FIRST STAPLE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAY BALE AT AN ANGLE TO FORCE THE BALES TIGHTLY TOGETHER. OTHER STAPLES SHALL BE DRIVEN FLAT WITH THE BALE.
4. INSPECTION SHALL BE PERFORMED AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSES AS NOT TO BLOCK OR IMPAIR DRIVE OR WALKWAY.

STRAW BALE DIKE

(NOT TO SCALE)



CONSTRUCTION SPECIFICATIONS

1. THE DISTANCE OF SILT PROTECTION IS APPLICABLE WHERE THE SILT PROTECTION IS PLACED PRIOR TO 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 EROSION AND SEDIMENT CONTROL MEASURES TO BE INSPECTED DAILY BY THE CONTRACTOR. ANY DAMAGED DEVICES OR MEASURES SHALL BE REPAIRED OR REPLACED BY THE CLOSE OF DAY OR AS DIRECTED BY THE ARCHITECT.
3. ALL MATERIALS LEAVING THE SITE SHALL EXIT THROUGH THE CONSTRUCTION ENTRANCE ONLY AND SHALL BE MAINTAINED IN GOOD WORKING CONDITION.
4. ALL CATCH BASINS AND AREA DRAINAGE SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.
5. IF ANY CATCH BASIN OR DRAIN BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS IMMEDIATE CLEANING.
6. ALL DISTURBED AREAS WITHIN THE LIMIT OF DISTURBANCE BOUNDARY NOT SHOWN TO BE PAVED SHALL BE SEEDS OR SOAKED AS PER DC SPECIFICATIONS WITHIN SEVEN DAYS OF COMPLETION.
7. WHEN SEDIMENT TRAP/PERMANENT TANK HAS REACHED ITS CAPACITY, CLEAN OUT OF SAME IS REQUIRED. ANY STOPPING, REPAIRS, OR MAINTENANCE OF SAME SHALL BE STABILIZED WITHIN 10 DAYS AND COVERED WITH PLASTIC OR CANVAS, AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
8. AFTER PAVE OR GRAVEL, THERE IS NEED FOR GRAVEL COVER TO PREVENT EROSION AND SEDIMENT RUNOFF FROM OCCURRING. SUCH AS SOIL, SOIL, PLANTING, IMPROVEMENT OR MULCH, ETC.
9. AT THE COMPLETION OF CONSTRUCTION PROJECT AND AFTER THE S.C. EROSION AND SEDIMENT CONTROL INSPECTOR APPROVAL, ALL TEMPORARY SILTATION SEDIMENTATION AND PROBLEM CONTROL MEASURES AND DEVICES SHALL BE REMOVED AND ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.



STRAW BALE DROP INLET

(NOT TO SCALE)



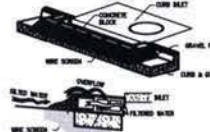
WASH RACK DETAIL

(NOT TO SCALE)



VEHICLE WASH DETAIL

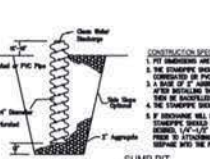
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CURB INLET SEDIMENT FILTER

(NOT TO SCALE)

1. TWO CONCRETE BALES SHALL BE PLACED ON THEIR SIDES ANYTHING THE CURB AT EITHER SIDE OF THE SILT FENCE.
2. A 1/2 INCH BY 4 INCH STAPLE SHALL BE CUT AND PLACED THROUGH THE CORNER BALE OF EACH SPREAD BALE TO HOLD THE FIRST BALE IN PLACE.
3. CONCRETE BALES SHALL BE PLACED ON THEIR SIDES AGAINST THE FRONT OF THE SILT FENCE AND ANCHORED THE OTHER BALE AS DESCRIBED.
4. WHEN NEW SILT FENCE IS PLACED UNDER THE EXISTING SILT FENCE, THE CORNER BALE SHALL BE PLACED UNDER THE EXISTING SILT FENCE THROUGH THE BALE. IN THE BALE, CORNER BALE OR HORIZONTAL CLOSURE WITH 1/2 INCH STAPLE SHALL BE USED.
5. TWO TO THREE MORE STAPLES SHALL BE PLACED AGAINST THE SIDE TO THE TOP OF THE BALE AS DESCRIBED.
6. IF THE SILT FENCE BECOMES CLOGGED WITH SEDIMENT SO THAT IT IS NO LONGER EFFECTIVE, THE SILT FENCE SHALL BE REMOVED AND REPLACED WITHIN A MINIMUM OF 24 HOURS.



SUMP PIT

(NOT TO SCALE)

- CONSTRUCTION SPECIFICATIONS:
1. PIT DIMENSIONS ARE OPTIONAL.
 2. A 1/2 INCH BY 4 INCH STAPLE SHALL BE CUT AND PLACED THROUGH THE CORNER BALE OF EACH SPREAD BALE TO HOLD THE FIRST BALE IN PLACE.
 3. CONCRETE BALES SHALL BE PLACED ON THEIR SIDES AGAINST THE FRONT OF THE SILT FENCE AND ANCHORED THE OTHER BALE AS DESCRIBED.
 4. WHEN NEW SILT FENCE IS PLACED UNDER THE EXISTING SILT FENCE, THE CORNER BALE SHALL BE PLACED UNDER THE EXISTING SILT FENCE THROUGH THE BALE. IN THE BALE, CORNER BALE OR HORIZONTAL CLOSURE WITH 1/2 INCH STAPLE SHALL BE USED.
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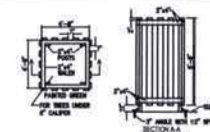
STANDARDS AND SPECIFICATIONS

FOR BRICKBAT GROUND COVER



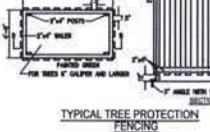
BRICKBAT DETAIL

(NOT TO SCALE)



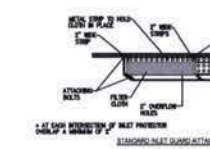
TYPICAL TREE PROTECTION FENCING

(NOT TO SCALE)



STANDARD INLET GUARD ATTACHMENT METHOD

(NOT TO SCALE)



STANDARD INLET GUARD ATTACHMENT METHOD

(NOT TO SCALE)

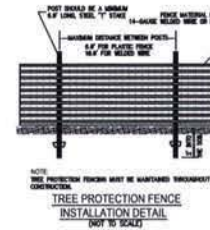


STANDARD INLET GUARD ATTACHMENT METHOD

(NOT TO SCALE)

GRADE INLET GUARD

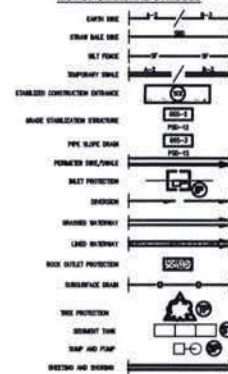
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TREE PROTECTION FENCE INSTALLATION DETAIL

(NOT TO SCALE)

LIST OF STANDARD SYMBOLS

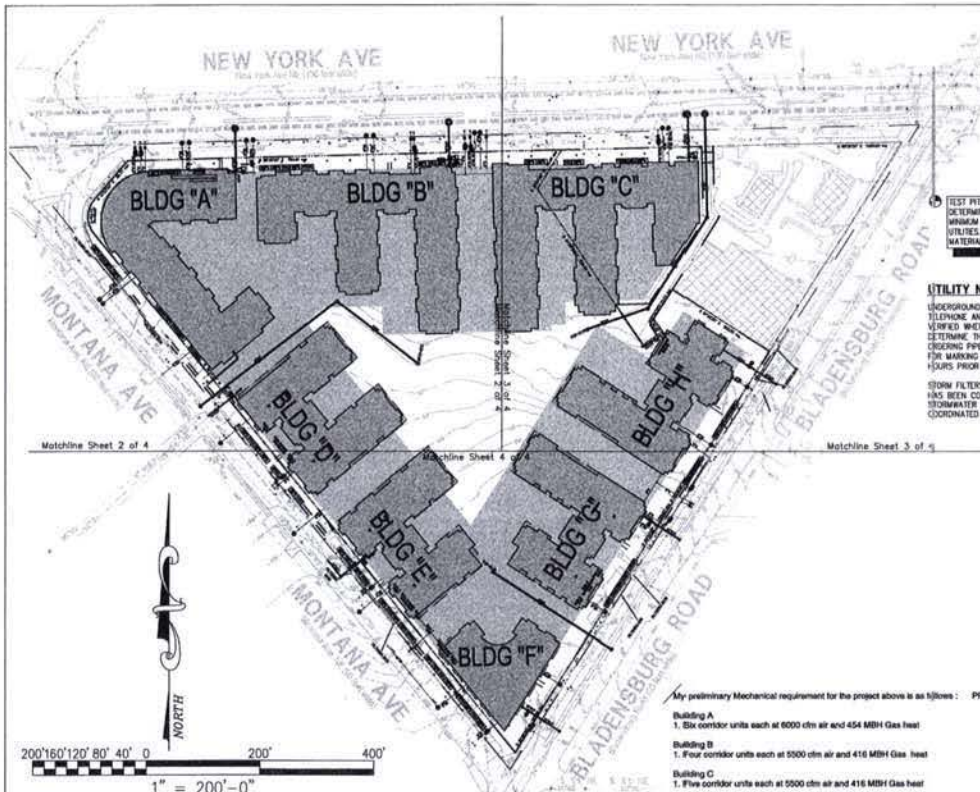


EROSION AND SEDIMENT CONTROL MEASURES AND SEQUENCE:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING.
2. PROVIDE TEMPORARY STONE CONSTRUCTION ENTRANCE AND WASH RACK WHERE SHOWN. PROVIDE WATER SOURCE AND HOSE TO CLEAN ALL EQUIPMENT LEAVING SITE.
3. NO DISTURBED AREA WILL BE EXPOSED FOR MORE THAN 7 CALENDAR DAYS. INSTALL THE NECESSARY TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ADEQUATE EROSION AND SEDIMENT CONTROL.
4. ALL CONSTRUCTION TO BE INSPECTED DAILY BY THE CONTRACTOR, AND ANY DAMAGED DETAIL OR EROSION CONTROL DEVICES OR MEASURES WILL BE REPAIRED AT THE CLOSE OF THE DAY.
5. STABILIZED CONSTRUCTION ENTRANCES TO BE PERIODICALLY SUPPLEMENTED WITH ADDITIONAL STONE AS NEEDED.
6. CONTROLS WILL BE REMOVED AFTER THEIR CONTRIBUTION HAS BEEN PERMANENTLY STABILIZED.

SILTATION EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENT 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.
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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)645-6030 OR (202) 645-6031.

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.

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 BY STRUCTURAL ENGINEER LICENSED IN DISTRICT OF COLUMBIA TO ENSURE THEIR SUPPORT.

**Edwards
Kelcey**

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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 MARKING 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 DC-DOH. THIS EFFORT MUST BE COORDINATED WITH DEPARTMENT OF HEALTH.

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

PRELIMINARY PLUMB & MECH. GAS LOAD

Building	Gas Range MBH	Heating MBH
Building A 1. Six corridor units each at 5000 cfm air and 454 MBH Gas heat	40,800	206,116
Building B 1. Four corridor units each at 5000 cfm air and 416 MBH Gas heat	24,375	1,504
Building C 1. Five corridor units each at 5000 cfm air and 416 MBH Gas heat	28,730	2,080
Building D 1. Four corridor units each at 5000 cfm air and 380 MBH Gas heat	20,735	1,520
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	18,835	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	1,820
Restaurant	8,500	
Hotels	4,500	

GENERAL NOTES:

- EXISTING CONDITIONS WERE PRODUCED FROM SURVEYS PREPARED BY EX IN 2006 AND PUBLIC RECORD.
- VERIFY LOCATION OF EXISTING UTILITIES BEFORE PROCEEDING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE, DC/DPW, 703-753-0171 OR 703-753-0172 (703-257-7777) 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATIONS. HAND DIG TEST PITS AT ALL UTILITY CROSSINGS AND DETERMINE EXACT CLEARANCE OF ALL PROPOSED INSTALLATIONS WELL IN ADVANCE OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS WITH PLAN ELEVATIONS.
- WORK AND MATERIALS IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE APPLICABLE DC/PAW STANDARDS AND SPECIFICATIONS. ON-SITE WORK AND MATERIALS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE D.C. PLUMBING CODE.
- EMERGENCIES 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.
- OMISSIONS AND/OR ADDITIONS OF UTILITIES FOUND DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INFORMATION CONCERNING FOUND UTILITY, NOT SHOWN ON PLANS.
- 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.
- TRANSMISSION 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 DPM 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/INLETS 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 STANDARD 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 MARK. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT MR. GREGG WHITLEY AT WASHINGTON GAS AT 703-750-4205.
- PROVIDE A MINIMUM OF 3 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND THE PROPOSED FACILITIES.
- PROVIDE A MINIMUM OF 3 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER TRANSMISSION GAS FACILITIES AND THE PROPOSED FACILITIES.

NEW YORK AVENUE ARBORETUM PROJECT DATE: 7/15/2008 14:17

BUILDING	UNITS	WSPU PER UNIT *	TOTAL DOMESTIC WSPU *	TOTAL DOMESTIC GPM *	TOTAL DOMESTIC TOWERS GPM *	CLOCKING TOWERS GPM *	CLOCKING TOWERS GPM *	CLOCKING TOWERS GPM *	TOTAL DOMESTIC WSPU *	BARBERY WSPU *
A	429		4408.30	569.1	304.075.00	1200	87.75	27.588	477.258	877.258
B	540		5185.45	650	346.880.00	1200	100	15.890	546.890	942.490
C	598		5893.55	738.5	376.880.00	1800	120	88.400	887.300	987.300
D	429		4408.30	569.1	304.075.00	1100	87.75	19.450	444.450	844.450
E	414		3884.50	534.3	284.840.00	1000	75	14.800	388.840	808.840
F	216		2234.10	281.8	145.880.00	800	50	5.100	186.980	406.980
G	405		4118.10	515.3	265.520.00	1100	87.75	15.100	444.450	844.450
H	414		4145.50	515.4	265.480.00	1100	87.75	15.400	444.880	844.880
RESTAURANT										
Hotels										
TOTAL			38,835	4,915	2,240,120.00				3,883.50	8,500.00

FOOTNOTE A: Based on Table 610B IPC 2003 Appendix E

FOOTNOTE B: Based on Table 610B IPC 2003 Appendix E

FOOTNOTE C: Based on 24 Hour Peak Demand Operation

FOOTNOTE D: Based on 24 Hour Continuous Operation

FOOTNOTE E: Assumed no supply volume + drainage volume

FOOTNOTE F: Assumed no 12 Hour operation ready for Cooling Tower

FOOTNOTE G: Health Club

FOOTNOTE H: Health Club

FOOTNOTE I: Health Club

FOOTNOTE J: Health Club

FOOTNOTE K: Health Club

FOOTNOTE L: Health Club

FOOTNOTE M: Health Club

FOOTNOTE N: Health Club

FOOTNOTE O: Health Club

FOOTNOTE P: Health Club

FOOTNOTE Q: Health Club

FOOTNOTE R: Health Club

FOOTNOTE S: Health Club

FOOTNOTE T: Health Club

FOOTNOTE U: Health Club

FOOTNOTE V: Health Club

FOOTNOTE W: Health Club

FOOTNOTE X: Health Club

FOOTNOTE Y: Health Club

FOOTNOTE Z: Health Club

FOOTNOTE AA: Health Club

FOOTNOTE AB: Health Club

FOOTNOTE AC: Health Club

FOOTNOTE AD: Health Club

FOOTNOTE AE: Health Club

FOOTNOTE AF: Health Club

FOOTNOTE AG: Health Club

FOOTNOTE AH: Health Club

FOOTNOTE AI: Health Club

FOOTNOTE AJ: Health Club

FOOTNOTE AK: Health Club

FOOTNOTE AL: Health Club

FOOTNOTE AM: Health Club

FOOTNOTE AN: Health Club

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FOOTNOTE AP: Health Club

FOOTNOTE AQ: Health Club

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FOOTNOTE BW: Health Club

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FOOTNOTE CA: Health Club

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FOOTNOTE CC: Health Club

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FOOTNOTE CN: Health Club

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FOOTNOTE CQ: Health Club

FOOTNOTE CR: Health Club

FOOTNOTE CS: Health Club

FOOTNOTE CT: Health Club

FOOTNOTE CU: Health Club

FOOTNOTE CV: Health Club

FOOTNOTE CW: Health Club

FOOTNOTE CX: Health Club

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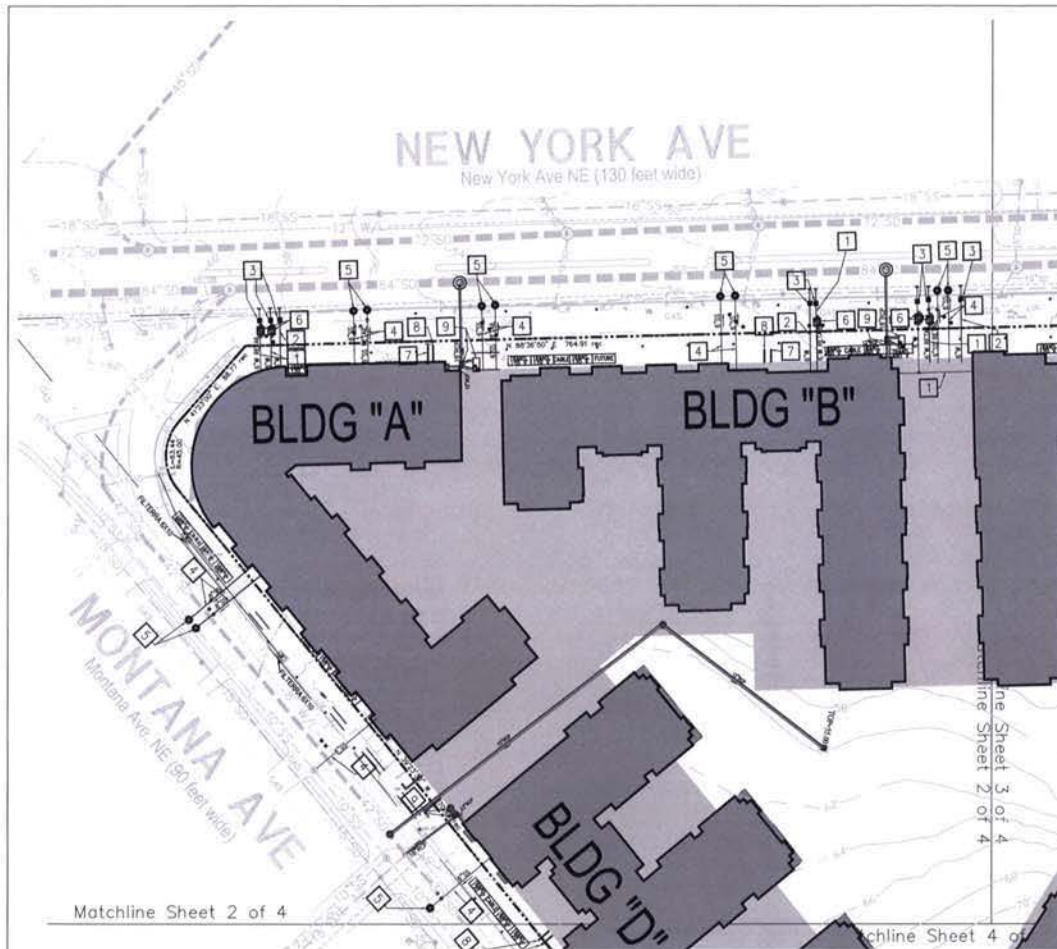
FOOTNOTE FL: Health Club

FOOTNOTE FM: Health Club

FOOTNOTE FN: Health Club

FOOTNOTE FO: Health Club

FOOTNOTE FP: Health Club



DC/WASA GENERAL NOTES:

1. NOTIFY DC/WASA ONE WEEK PRIOR TO START OF CONSTRUCTION. UTILITY INSPECTION SECTION AT 202-787-2377, WATER SERVICES 202-612-3400 OR 3460 AND SEWER SERVICES 202-264-3824 OR 3820.
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 5000 OVERLOOK AVENUE, S.W., 5TH FLOOR.
4. UNDER DC/WASA CUSTOMER FEES AND CHARGES, CONTRACTORS, PLUMBERS, OWNERS ARE RESPONSIBLE FOR EXCAVATIONS, BACKFILLING, REPAIRING 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:

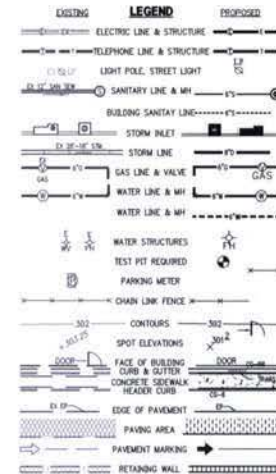
1. METERS, INSTALLATIONS AND INSPECTIONS MUST COMPLY WITH ALL DCMR CODES AND SPECIFICATIONS.
2. ALL NEW METERS INSTALLED, INCLUDING PRIVATELY OWNED METERS MUST BE "TRUE ABSOLUTE ENCODER" TYPE METERS OR "DIRECT-READ" METERS THAT CONVERT METER READINGS TO DIGITAL PULSES FROM THE METER REGISTERS.
3. ALL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

OUTSIDE LOCATIONS:

- A. THE NEW METER LID MUST BE OF A COMPOSITION AND TENSILE STRENGTH SO AS TO PERMIT A RADIO SIGNAL TO PROPAGATE THROUGH THE METER LID AND SECURE THE METER PIT AGAINST LIGHT VEHICLE TRAFFIC AND PEDESTRIAN FOOT TRAFFIC. LARGE METER INSTALLATIONS MUST HAVE METER LIDS THAT MAY WITHSTAND HEAVY VEHICLE TRAFFIC.
- B. THE RADIO-TRANSMITTING DEVICE MUST BE SECURELY ANCHORED TO THE UNDERSIDE OF THE NEW TRANSMITTER FRONT 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"-8" COMPOUND METERS.
3. AMORCAST 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 1/2" 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 SEWER PER DC/WASA STANDARDS AND SPECIFICATIONS.
5. NEW 4" DIAMETER DROP MANHOLE WITH COOGLUE BASE PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING NO. S/20-01 AND S/25-01.
6. PROPOSED WATER METER PER DC/WASA STANDARDS AND SPECIFICATION. REFER TO DC/WASA DRAWING DOW/25-01 FOR DETAIL.
7. PROPOSED ELECTRIC CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR DETAILS AND ACTUAL LOCATION. CONTRACTOR TO COORDINATE POSSIBLE ROUTING WITH PEPO.
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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and
Kelcey**

ENGINEERS
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CONSTRUCTORS

Planning, Engineering, Surveying
& Landscape Architecture
11860 Sunrise Valley Drive Suite 200
Reston, Virginia 20191
(T) 703.391.7600
(F) 703.264.0595
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WASHINGTON DC

Sheet Title:

**SITE UTILITY PLAN
WEST**

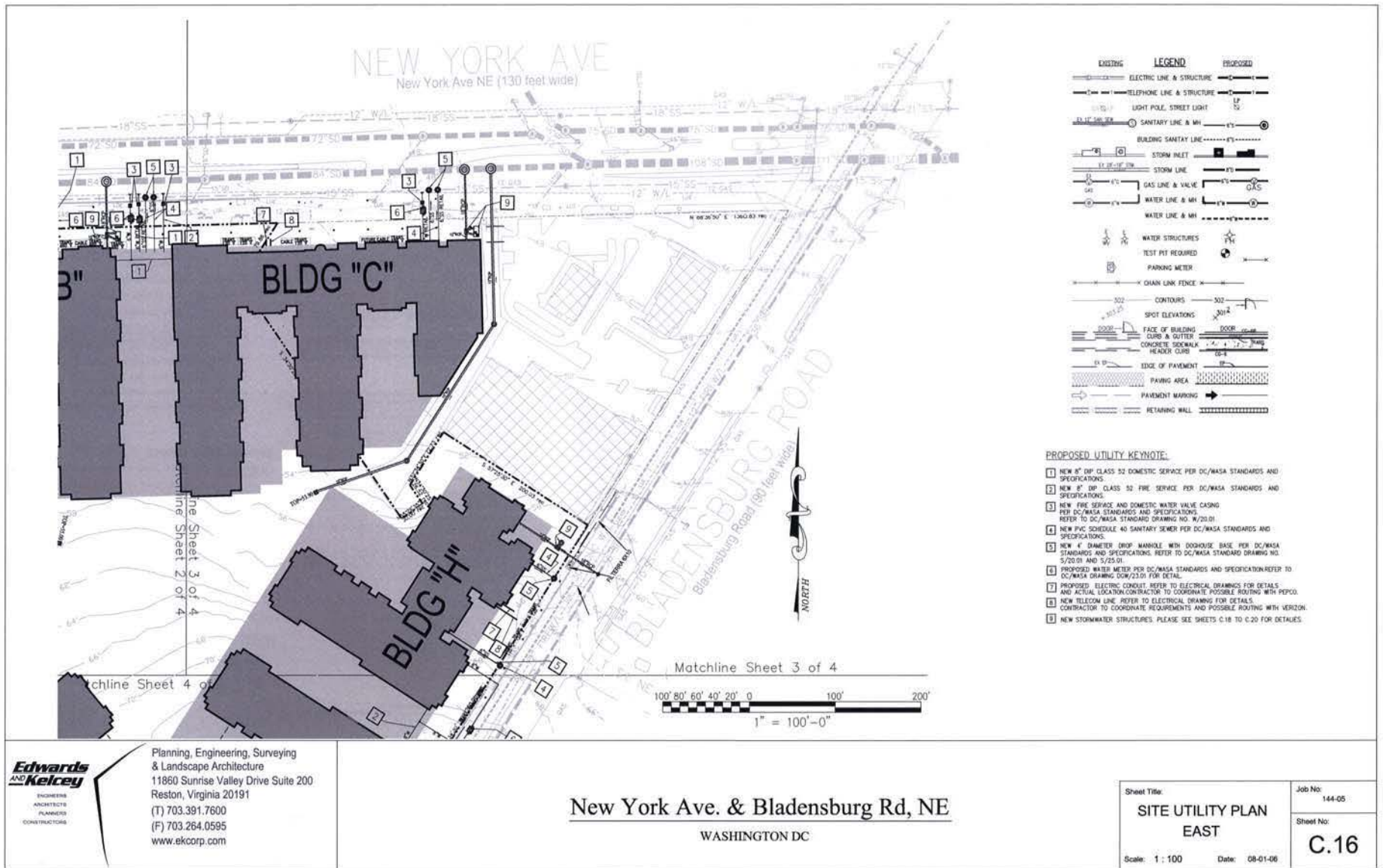
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Date: 08-01-08

Job No:
144-05

Sheet No:

C.15



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Planning, Engineering, Surveying
& Landscape Architecture
11860 Sunrise Valley Drive Suite 200
Reston, Virginia 20191
(T) 703.391.7600
(F) 703.264.0595
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Sheet Title:	Job No:
SITE UTILITY PLAN EAST	144-05
Scale: 1 : 100	Sheet No:
Date: 08-01-06	C.16



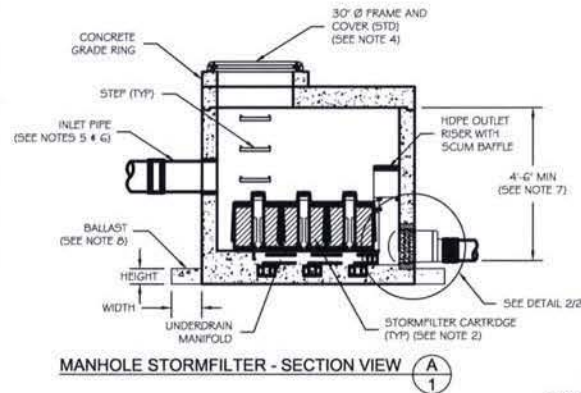
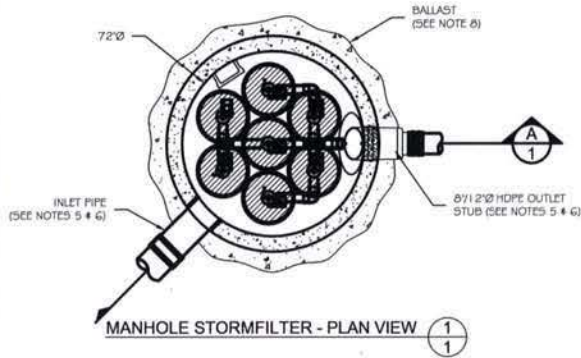
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Planning, Engineering, Surveying
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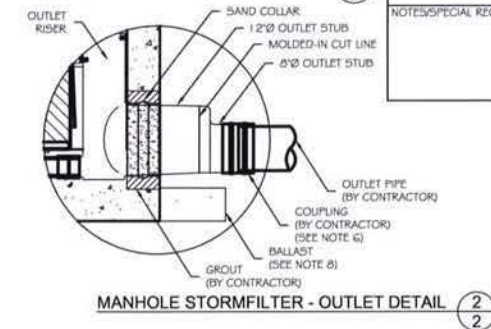
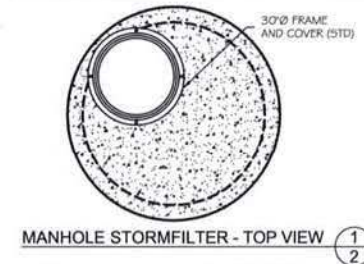
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**SITE UTILITY PLAN
SOUTH**
Scale: 1 : 100 Date: 08-01-08

Job No:
144-05
Sheet No:
C.17

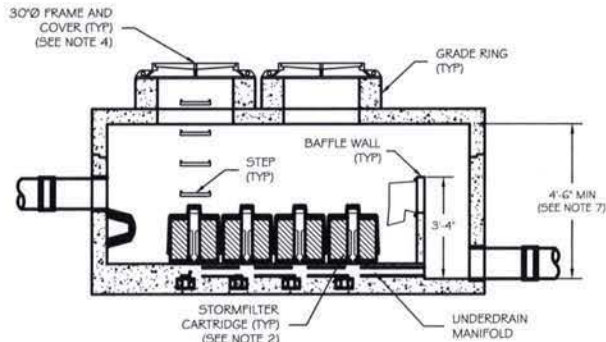


**PRECAST 72" MANHOLE STORMFILTER
TOP AND SECTION VIEWS, NOTES AND DATA
STANDARD DETAIL**

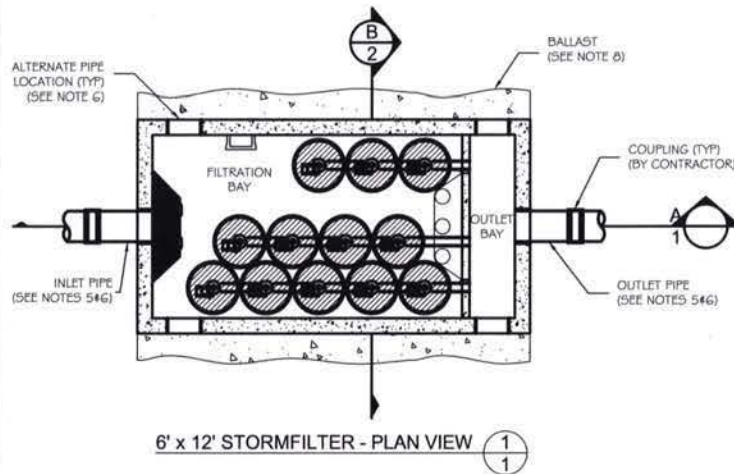
- GENERAL NOTES**
- 1) STORMFILTER BY STORMWATER360 (5360), PORTLAND, OREGON 800-548-4667.
 - 2) FILTER CARTRIDGES TO BE SIPHON-ACTUATED AND SELF-CLEANING. STANDARD DETAIL SHOWS MAXIMUM NUMBER OF CARTRIDGES. ACTUAL NUMBER REQUIRED TO BE SPECIFIED ON SITE PLANS OR IN DATA TABLE BELOW.
 - 3) PRECAST MANHOLE 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.



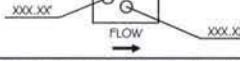
PRECAST MANHOLE STORMFILTER DATA					
STRUCTURE ID					G-18
WATER QUALITY FLOW RATE (cfs)					0.22
PEAK FLOW RATE (< 1.5 cfs)					
RETURN PERIOD OF PEAK FLOW (yrs)					
# OF CARTRIDGES REQUIRED					7
CARTRIDGE FLOW RATE (1.5 or 7.5 gpm)					15
MEDIA TYPE (CSF, PERLITE, ZPG)					PERLITE
RIM ELEVATION					93.20
PIPE DATA:	I.E.	ORIENTATION	MATERIAL	DIAMETER	
INLET PIPE #1	86.50	75°	RCP	15"	
INLET PIPE #2					
OUTLET STUB	86.20	0°	PVC	8" / 12"	
ECCENTRIC REDUCER (BY CONTRACTOR)	YES/NO			SIZE	
ANTI-FLOTATION BALLAST	NO			HEIGHT	
				20"	
NOTES/SPECIAL REQUIREMENTS:			PIPE ORIENTATION KEY:		

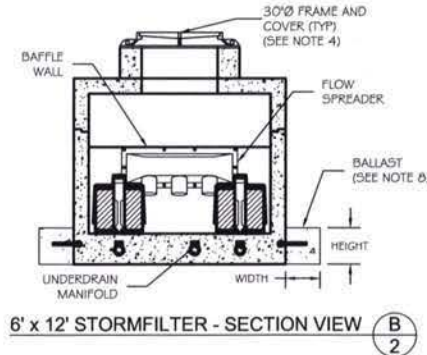


6' x 12' STORMFILTER - SECTION VIEW (A1)



6' x 12' STORMFILTER - PLAN VIEW (11)

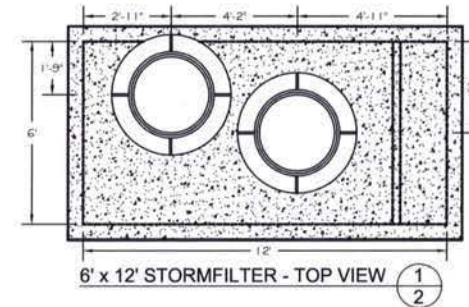
6' x 12' PRECAST STORMFILTER DATA				
STRUCTURE ID	XXX			
WATER QUALITY FLOW RATE (cfs)	X.XX			
PEAK FLOW RATE (cfs)	X.XX			
RETURN PERIOD OF PEAK FLOW (yrs)	XXX			
# OF CARTRIDGES REQUIRED	XX			
CARTRIDGE FLOW RATE (1.5 OR 7.5 gpm)	XX			
MEDIA TYPE (CSF, PERLITE, ZPG)	XXXXX			
PIPE DATA:		I.E.	MATERIAL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



6' x 12' STORMFILTER - SECTION VIEW (B2)

GENERAL NOTES

- 1) STORMFILTER BY STORMWATER360; WEST: PORTLAND, OREGON (800) 548-4667; EAST: SCARBOROUGH, ME (877) 907-8676; MID-ATLANTIC: ELK RIDGE, 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

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ENGINEERS
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(T) 703.391.7600
(F) 703.264.0595
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Sheet Title:	Job No:
SWM DETAILS	144-05
Scale: NTS	Sheet No:
Date: 06-01-06	C.19



Sizing Summary

Bladensburg Road Triangle
Stormwater Treatment System/Design Summary
 Washington, DC

Information provided:

- Total contributing area:
 - Type 1 impervious rooftop = 1.229 acres
 - Type 2 impervious rooftop = 0.752 acres
- Presiding agency = DCDCH

Assumptions:

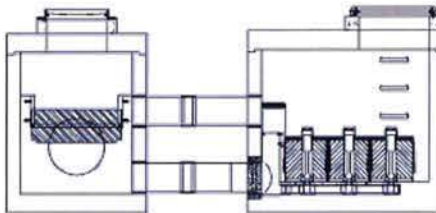
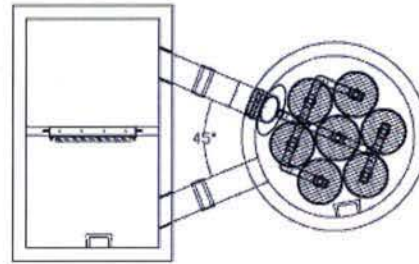
- Design = Rational Method
- Rainfall intensity (roadways) = 0.53 in/hr
- Rainfall intensity (rooftop) = 0.32 in/hr
- C-factor = 0.85
- Media = Perlite
- Cartridge flow rate = 15 gpm
- Drop from inlet to outlet = 2.3'

Size and cost estimates:

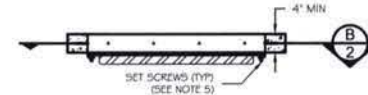
The Stormwater Management StormFilter is a passive siphon-actuated, flow-through, stormwater filtration system consisting of a structure that houses rechargeable, media-filled filter cartridges. The StormFilter works by passing stormwater through the media-filled cartridges, which trap particulates and 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:

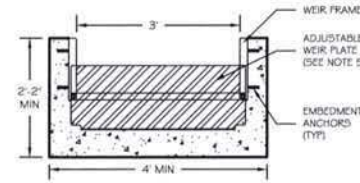
Area	Q _{base}	Q _{peak}	# cartridges	Vault Size
Type 1	0.38	8.5	12	8x12
Type 2	0.23	5.2	7	72" MH



GENERAL NOTES	
1)	STORMGATE BY STORMWATER360 (5360), PORTLAND, OREGON (503) 548-4667.
2)	PRECAST VAULT TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C657 AND C656. 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 2

STORMGATE VAULT DATA

STRUCTURE ID			XXXX
WATER QUALITY FLOW RATE (cfs)			XXXX
PEAK FLOW RATE, Qpeak (cfs)			XXXX
VAULT LENGTH			XXXX
VAULT WIDTH			XXXX
RIM ELEVATION			XXXX.XX
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	XXXX.XX	XXXX	XXXX
INLET PIPE #2	XXXX.XX	XXXX	XXXX
WATER QUALITY FLOW OUTLET PIPE	XXXX.XX	XXXX	XXXX
PEAK FLOW OUTLET PIPE	XXXX.XX	XXXX	XXXX
ORIFICE TYPE (PIPE, CAP, PLATE)			XXXXXX
ORIFICE DIAMETER (in)			XXXX
WEIR CREST ELEVATION			XXXX.XX
WEIR WALL ELEVATION			XXXX.XX
HEAD OVER WEIR, H (ft)			XXXX
WSE at Orifex			XXXX.XX
FLOOR ELEVATION			XXXX.XX

NOTES/SPECIAL REQUIREMENTS:

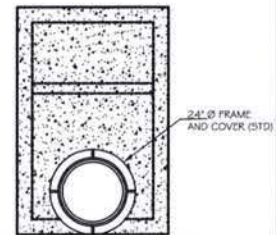
The leaders in the stormwater industry, Stormwater Management, Inc. and Vertecratics, Inc., have united as Stormwater360™ - the comprehensive provider of stormwater solutions. With an unparalleled product line and unmatched customer support team under one umbrella, Stormwater360 has the treatment option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

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



STORMGATE VAULT- TOP VIEW 2



Planning, Engineering, Surveying
 & Landscape Architecture
 11860 Sunrise Valley Drive Suite 200
 Reston, Virginia 20191
 (T) 703.391.7600
 (F) 703.264.0595
www.ekcorp.com

New York Ave. & Bladensburg Rd, NE
 WASHINGTON DC

Sheet Title:	Job No:
SWM DETAILS	144-06
Scale: NTS	Sheet No:
Date: 08-01-06	C.20

III. Filterra® Physical Description

The system consists of a concrete container, a 3 inch mulch layer, 1.5 to 3.5 feet of a unique soil filter media, an observation / cleanout pipe, an under-drain system and an appropriate type of plant i.e., flowers, grasses, shrub, or tree (see Figure 1).



Figure 1

Stormwater runoff drains directly from impervious surfaces through an inlet structure in the concrete box and flows through the mulch, plant, and soil filter media. Treated water flows out of the system via an under-drain connected to a storm drain pipe or other appropriate outfall.

The Filterra Stormwater Bioretention Filtration System harnesses the power of nature to capture, immobilize and cycle pollutants to treat urban runoff. Trees, grasses and shrubs do more than make it attractive. They also enhance pollutant removal.

An Attractive Alternative to Conventional Systems

A unique combination of aesthetics, sound science, practical engineering and common sense make Filterra such an appealing option. Above ground, the system's shrubs, grasses or trees add beauty and value to the urban landscape. Underground, nature's complex physical, chemical and biological processes are hard at work removing a wide range of nonpoint source pollutants from urban stormwater runoff. Stormwater flows through a specially designed filter media mixture contained in a landscaped concrete container. The mixture immobilizes pollutants; those pollutants are then decomposed, volatilized and incorporated into the biomass of the Filterra system's micro/macro fauna and flora.

Stormwater runoff flows through the media and into an underdrain system at the bottom of the container, where the treated water is discharged. Higher flows bypass Filterra via a downstream inlet structure or other appropriate outfall.

An Effective and Economical Technology

Filterra is similar in concept to bioretention in its function and applications, with the major distinction that Filterra has been optimized for high volume/flow treatment and high pollutant removal. It takes up little space and may be used on highly developed sites such as landscaped areas, green space, parking lots and streetscapes. Filterra is exceedingly adaptable and may be used for all developments, in all soil conditions to meet your unique stormwater filtration needs.

An Easy-Maintenance System

While the technology behind Filterra is complex, installation and maintenance are simple. A flexible, single-unit design featuring drop-in-place construction makes Filterra easy to install. Unlike competitive systems, a maintenance agreement is included with the purchase of every unit. Maintenance records are kept by Americast and are updated when maintenance is performed. Finally, unlike most stormwater filtration systems, Filterra is easy and safe to inspect. Simple, routine and inexpensive landscape care is all that's needed. No special equipment, no vacuum trucks.

A Natural Solution for Stormwater Filtration

Today's emphasis on natural solutions to environmental issues makes the Filterra Stormwater Bioretention Filtration System an idea whose time has come. Filterra represents a major breakthrough in bioretention technology, harnessing the power of nature to capture and immobilize pollutants to treat urban runoff. In developing Filterra, America's foremost expert on Low Impact Development and bioretention technologies created the most efficient and cost effective natural stormwater filtration system available.

**Edwards
and Kelcey**

ENGINEERS
ARCHITECTS
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Planning, Engineering, Surveying
& Landscape Architecture
11860 Sunrise Valley Drive Suite 200
Reston, Virginia 20191
(T) 703.391.7600
(F) 703.264.0595
www.ekcorp.com

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