



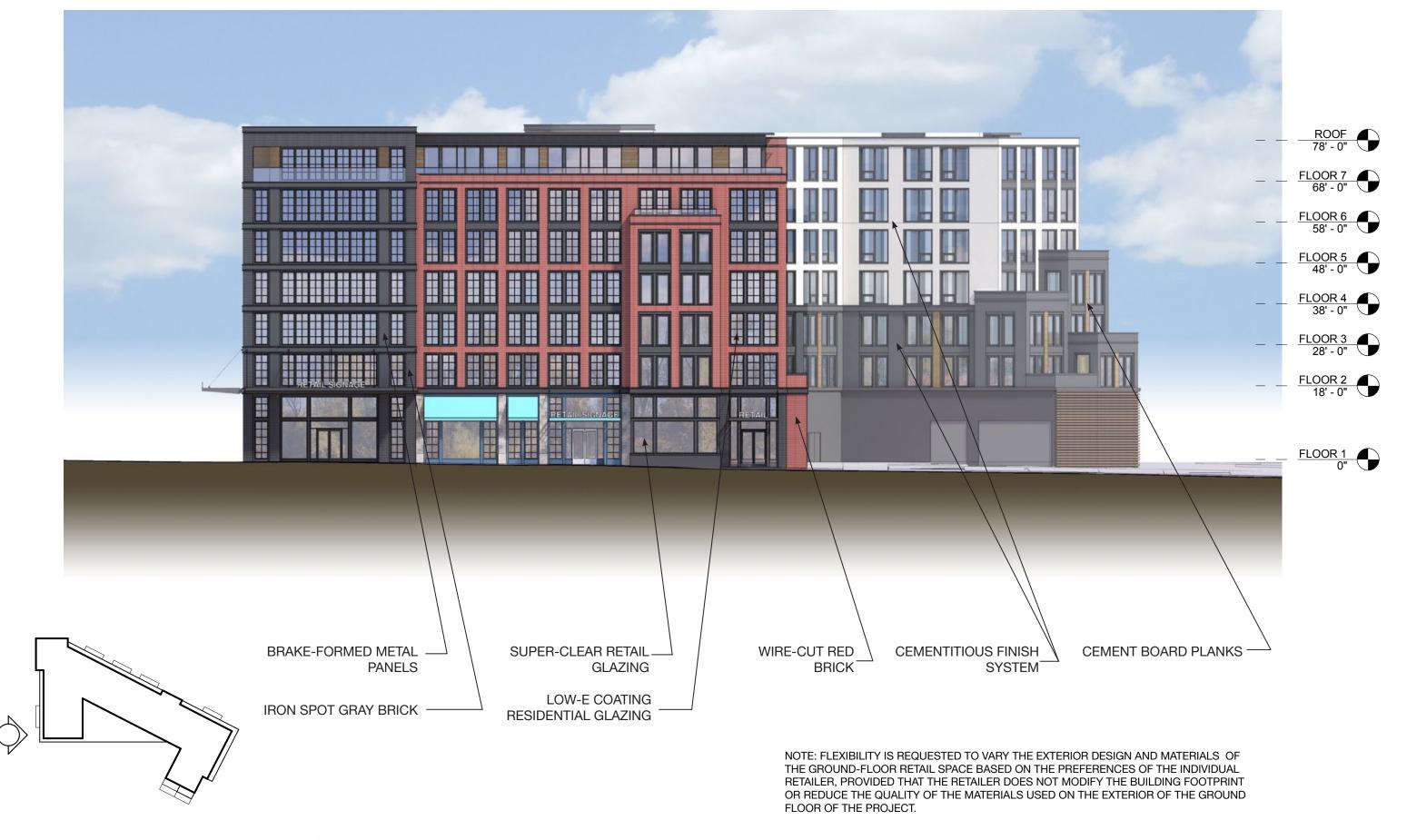
PROPOSED MATERIALS





1401PENNSYLVANIA ARCHITECTURE CASRiegler Antunovich Associates

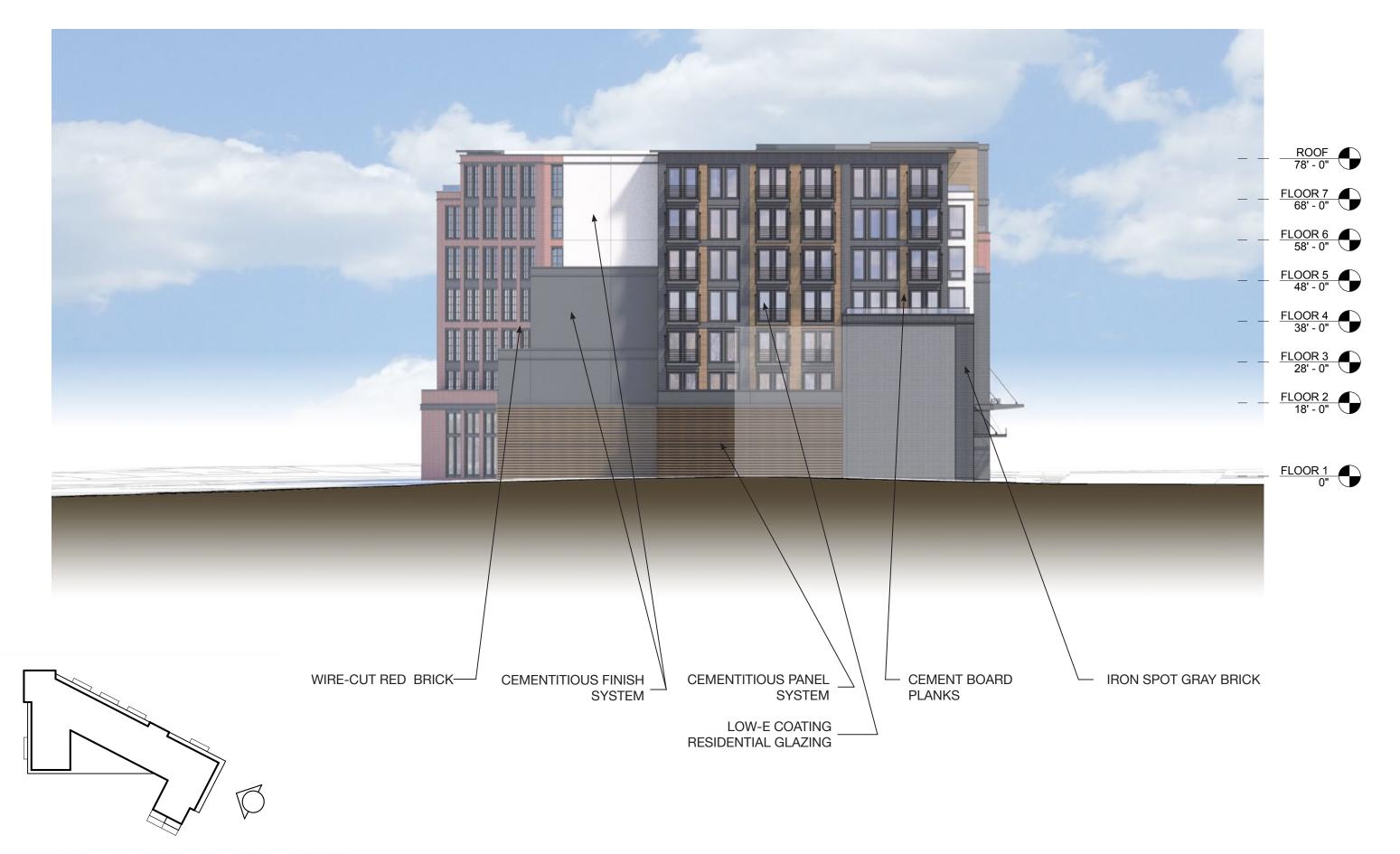
BUILDING ELEVATIONS - NORTH

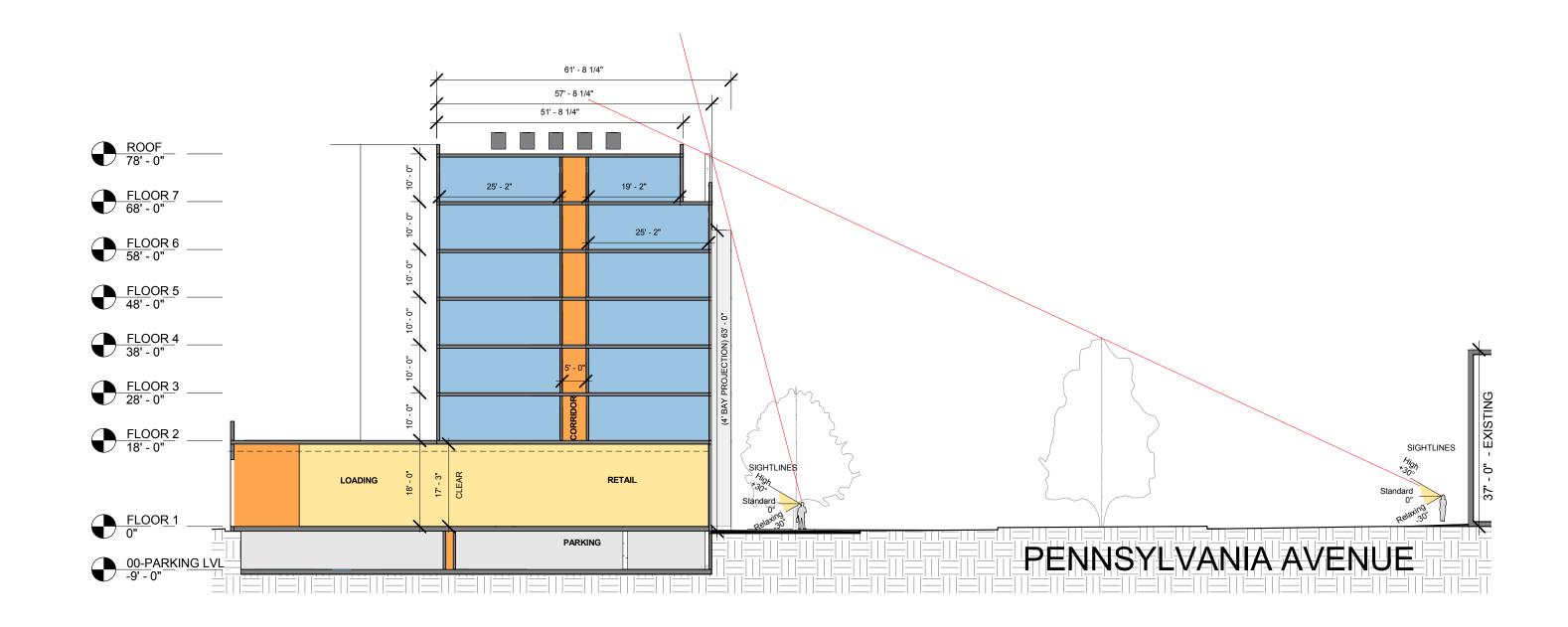


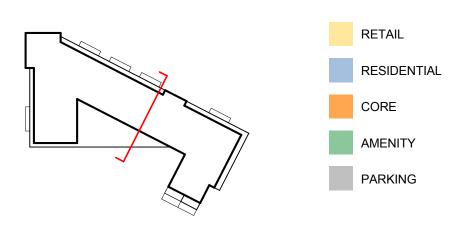
1401PENNSYLVANIA ARCHITECTURE CASRiegler Antunovich Associates

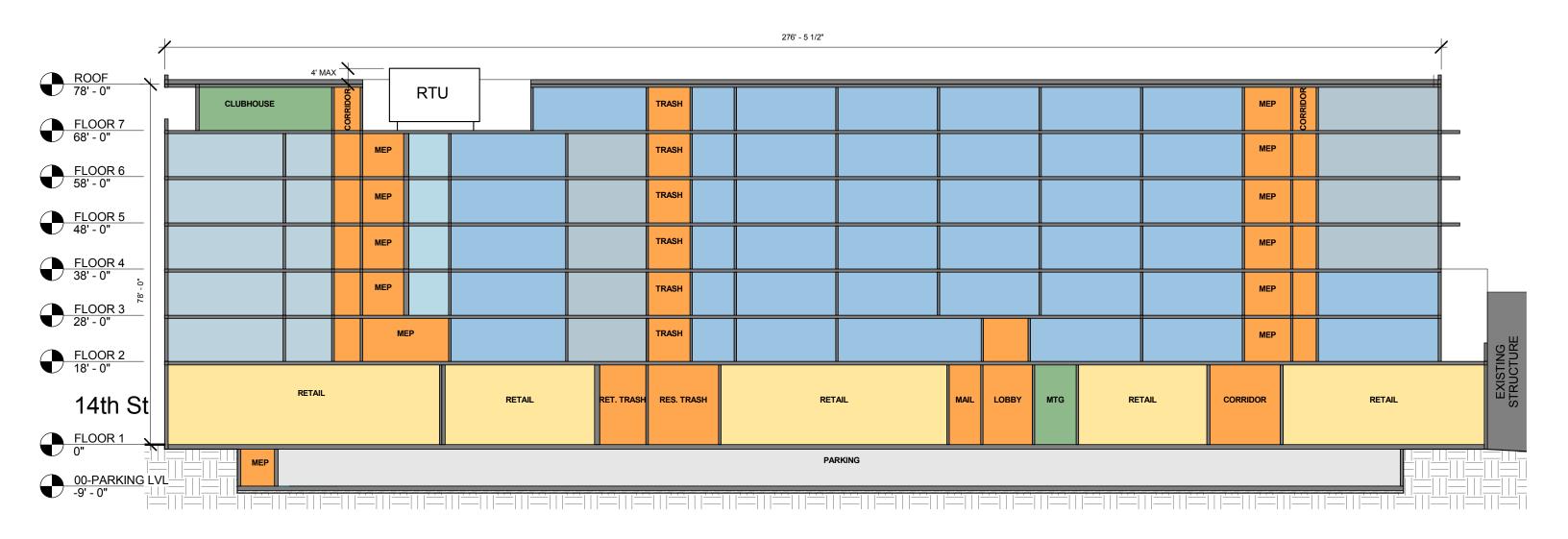
BUILDING ELEVATIONS - WEST

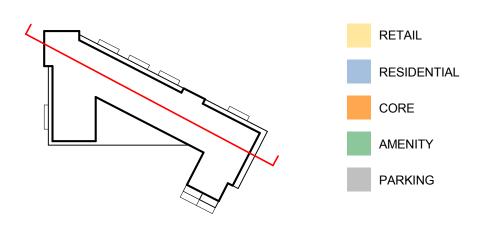




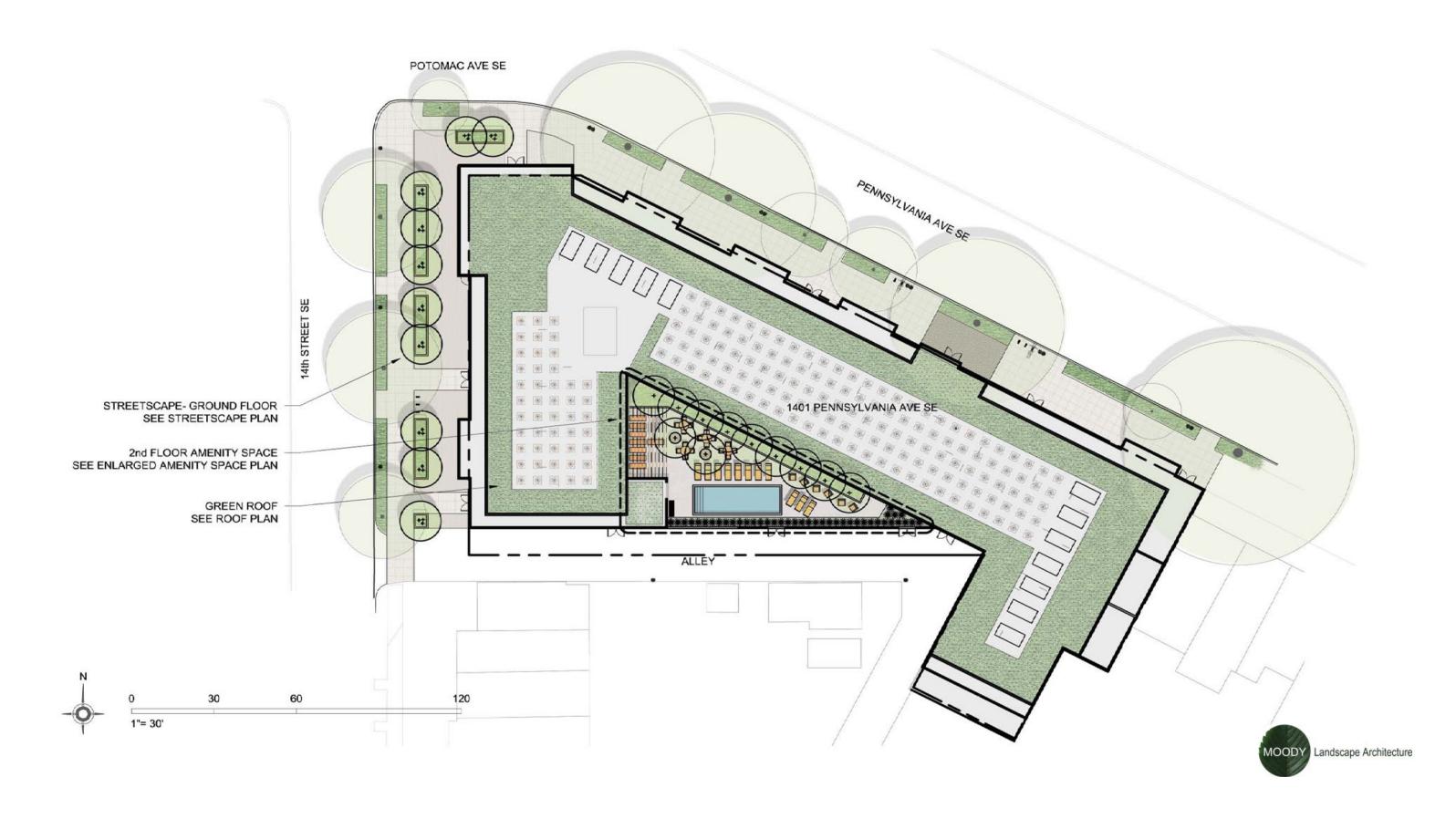


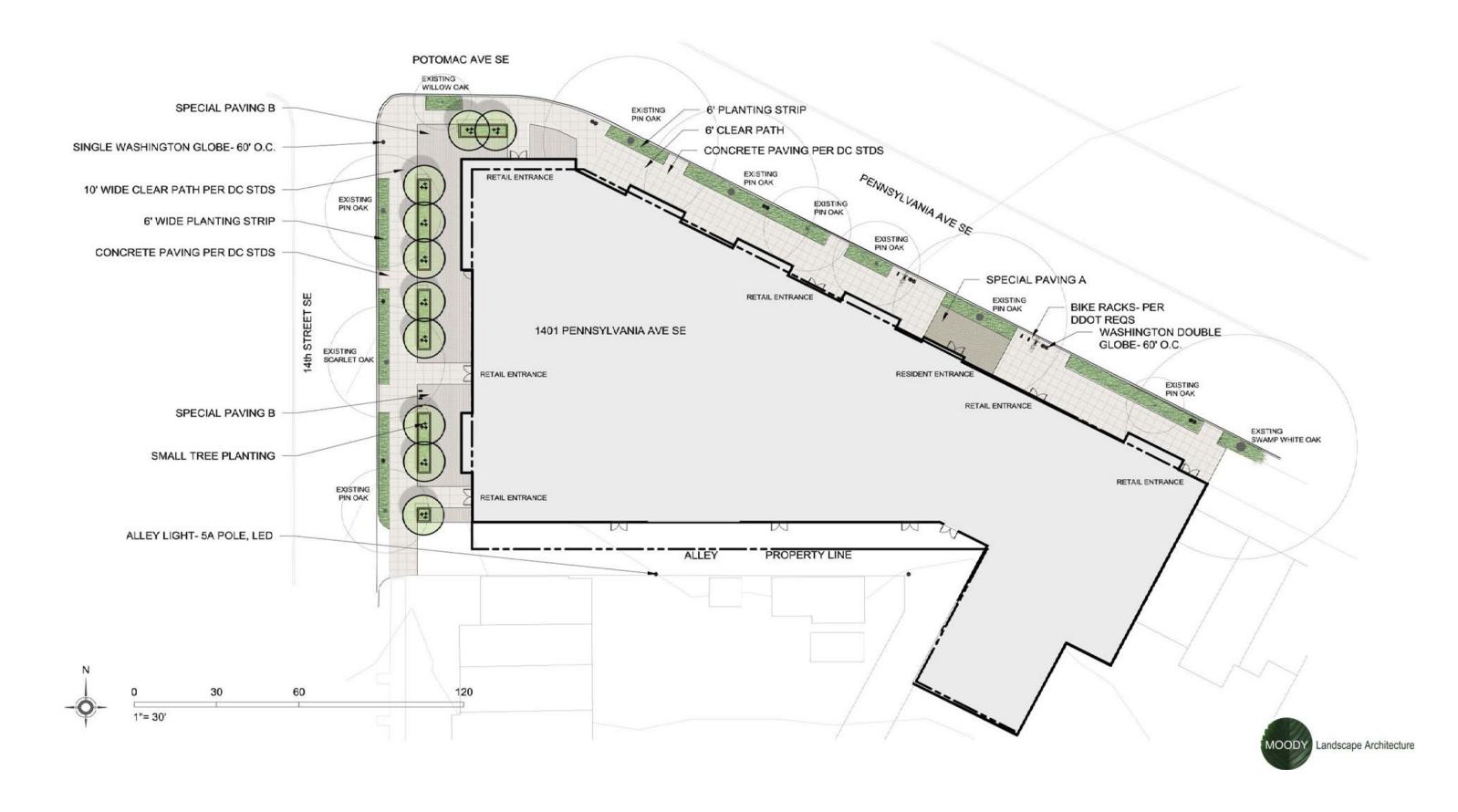


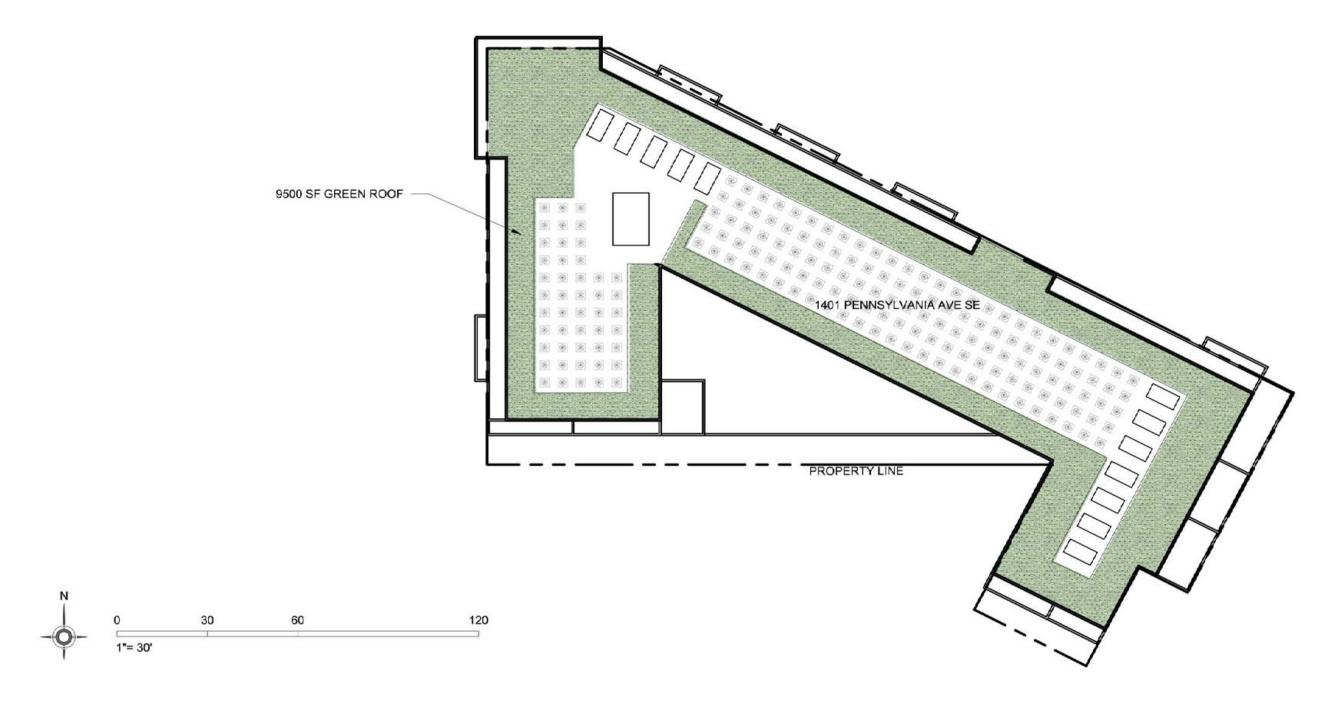






















Twin-20 Double Globe Street Light







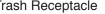


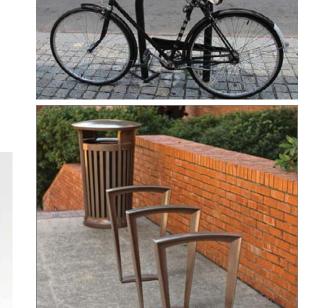












Bicycle Rack



Small Tree Planting in Raised Planter



Planting Strip



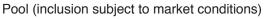
Special Paving



Special Paving





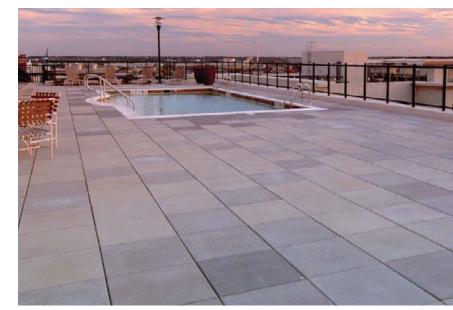




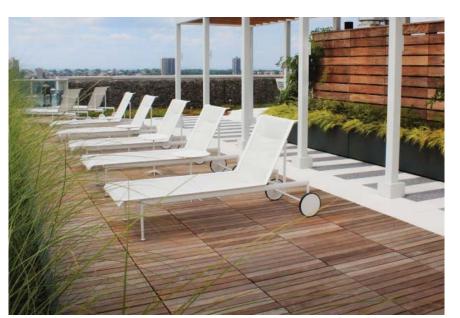
Shade Structure



Planters







Wood Deck



Planters



Wood Bench





Columnar Hornbeam Carpinus betulus 'Frans Fontaine'



Sweetbay Magnolia Magnolia virgininiana 'Moonglow'



Switchgrass Panicum virgatum



Feather Reed Grass Calamagrostis x acutiflora



Green Mountain Boxwood Buxus x 'Green Mountain'



Liriope



Green Roof Precedent Image



Oakleaf Hydrangea Hydrangea quercifolia



St. Johns Wort Hypericum perforatum



Autumn Stonecrop Sedum 'Matrona'



Yarrow Achillea millefolium



Green Roof Precedent Image



- 8. SEE SEDIMENTATION AND EROSION CONTROL PLAN FOR ALL EXISTING TREES TO REMAIN AND BE
- 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.
- 10. EXISTING UTILITIES (STRUCTURES AND LINES) NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO FACILITATE CONSTRUCTION, UTILITIES TO BE CAPPED AS PER UTILITY PURVEYOR'S STANDARDS AND SPECIFICATIONS, COORDINATE REQUIREMENTS WITH UTILITY PURVEYOR'S TO BE ADMINISTRATION OF THE PROPERTY OF
- 11. REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS OTHERWISE INDICATED ON THESE DRAWNINGS.
- ALL EXISTING DC STREETLIGHT POLES THAT ARE BEING PERMANENTLY REMOVED MUST BE RETURNED IN GOOD CONDITION TO THE DISTRICT OF COLUMBIA WAREHOUSE AT 1735 15TH STREET NE OFF WEST VIRGINIA AVENUE CONTACT NUMBER (202) 576-5258.

- CONTRACTOR TO RELOCATE PARKING METERS IF REQUIRED AND AS DIRECTED BY D.C. BUREAU OF PARKING. COORDINATE REQUIREMENT WITH LARRY BROWN OF PARKING SERVICES AT (202) 671—2291.
- 16. NOTIFY DC WATER AT (202) 787-4299 48 HOURS PRIOR TO START OF CONSTRUCTION

- WHERE NEW WORK MEETS EXISTING, NOTE FIELD LOCATION AND ELEVATIONS OF EXISTING FEATURES BEFORE BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE ARCHITECT OR ENGINEER.

- 5. DIMENSIONS ARE TO FACE OF WALL AND CURB, EDGE OF WALK AND PAVEMENT, CENTERLINE OF COLUMN, PIPE AND UTILITY STRUCTURE. UNLESS OTHERWISE NOTED.

- 8. EXISTING SURFACE CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING CONDITIONS. CONTRACTOR TO COORDINATE EXTENT WITH ARCHITECT OR ENGINEER.

- 14. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.
- 15. REMOVE FRAMES AND COVERS OF SEWER MANHOEE/INEETS AND/OR WATER MAIN VALVE CASTINGS TO BE ABANDONED AND FILL TO
- 16. ALL CURB SPOT SHOTS ARE TOP OF CURB, UNLESS OTHERWISE NOTED. 17. NOTIFY WASHINGTON GAS AT (202) 750-4205, 48 HOURS PRIOR TO ANY EXCAVATION IN THE WICHITY OF ANY TRANSMISSION MAIN. FOR FURTHER INFORMATION OR PROBLEMS, CONTACT ME CHUCK WHITEY AT WASHINGTON GAS AT (703) 750-4205.
- 17. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 1 FOOT VERTICAL CLEARANCE BETWEEN 12" DIAMETER AND SMALLER DISTRIBUTION EXISTING GAS FACILITIES AND PROPOSED FACILITIES.
- 18. PROVIDE A MINIMUM OF 5 FEET HORIZONTAL AND 2 FEET VERTICAL CLEARANCE BETWEEN 16" DIAMETER OR GREATER GAS FACILITIES AND PROPOSED FACILITIES.
- 19. ALL PROPOSED WORK TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF THE DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION AND WATER AND SEWER AUTHORITY.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIDEWALK, CURB AND GUTTER TO REMAIN OR TO REPLACE SIDEWALK, CURB AND GUTTER DAMAGED DURING CONSTRUCTION.
- 21. EXISTING FULL DEPTH PAVEMENT SECTION, CURB AND GUTTER TO BE REMOVED AND REPLACED TO EXTENT NECESSARY TO FACILITATE CONSTRUCTION OF NEW UTILITIES. MATERIALS TO COMPLY WITH DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION STANDARDS

DC WATER STANDARD CONSTRUCTION NOTES:

- MSTRUCTION:
 CONSTRUCTION INSPECTION SECTION AT (202) 787-4024 AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION TO SCHEDULE PRE-CONSTRUCTION MATER SERVICES AT (202) 812-3400 OR 3460 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION.
 SEMER SERVICES AT (202) 284-3824 OR 3829 AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF UTILITY CONSTRUCTION.

- DC WATER RESPONSIBILITY: DC WATER IS RESPONSIBLE FOR INSTALLATION OF SMALL WATER SERVICE TAPS (2" DIAMETER AND LESS) TO THE PUBLIC MAIN, SMALL WATER SERVICE TAP REMOVALS FROM THE PUBLIC MAIN, FURNISHING & INSTALLING THE METER IN PUBLIC SPACE, AND INSPECTION OF WORKPERFORMED ON THE PUBLIC SYSTEMS.
- PLAN SET: A SET OF SIGNED & SEALED AND DC WATER STAMPED PLANS SHALL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY.

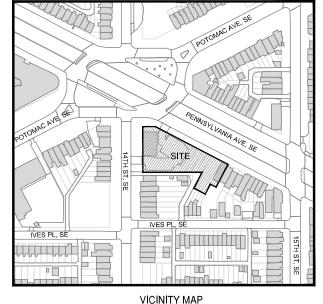
- CONFLICTS: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITIES. A MINIMUM OF ONE FOOT VERTICAL AND FREE HORIZONTAL CLEARANCE FROM OTHER UTILITIES SHALL BE MAINTAINED FROM ANY UTILITIES AND PUBLIC WATER AND SEWEM MAINTS.

- 23. SEWER BACKWATER PREVENTION: THE PLUMBING SYSTEM MUST BE IN COMPLIANCE WITH SECTION 715 OF THE 2006 INTERNATIONAL PLUMBING CODE WHICH STATES A BACKWATER VALVE IS REQUIRED FOR ALL PLUMBING FIXTURES BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER.

UTILITY CONTACTS:

SEWER/WATER: DC WATER - (202) 787-4299 5000 OVERLOOK AVE. SW 5TH FLOOR WASHINGTON, DC 20032

1401-1433 PENNSYLVANIA AVENUE, SE **SQUARE 1065; LOTS 142, 30-33, 820** WASHINGTON, DC



CIVIL DRAWING LIST - PUD:

COVER SHEET
EXISTING COMDITIONS PLAN
EROSION AND SEDIMENT CONTROL PLAN
SITE PLAN
GRADING PLAN
UTILITY PLAN EROSION AND SEDIMENT CONTROL NOTES EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NARRATIVE:

THE PROJECT CONSISTS OF THE DEVELOPMENT OF A RESIDENTIAL BUILDING AND ASSOCIATED IMPROVEMENTS THE CONSIST OF PRINCIPLA MAN FOR THE STREET AS THE STEWAL BE SERVICED BY NEW WAITER, FIRE PROTECTION, STORM DRAIN, AND SANITARY SEWER SERVICES. SITE ACCESS TO THE BELOW GRADE PARKING SHALL BE OFF A PARTLY PUBLIC AND PARTLY PRIVATE ALLE WHICH MILL BE CONSTRUCTED IN PART WITH THIS PROJECT.

ENGINEER

EX 8" W/M

EX 8" SAN

EX 15" RCP

(1255)

1229

CIVIL ENGINEER
BOWMAN CONSULTING GROUP
2121 EISENHOWER AVENUE, SUITE 302
ALEXANDRIA, VIRGINIA 22314
(703) 548–5781 0) STO-3701 OJECT MANAGER: MATTHEW SENENMAN, P.E. INCIPAL: MARK S. STIRES. P.E.

ABBREVIATIONS:

APPROX APPROXIMATE
ASPHA ASPHALT
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
BERNER ASSEMBLY FLOOR
BLDG BUILDING
BM BENCHMARK
BOV BLOW OFF VALVE
BW BOTTOM OF WALL
CAGE CURB AND GUITER
CB CATCH BASIN
CC CONCRETE CURB
CIP CAST RION PIPE CENTERLINE
CORRUGATED METAL PIPE
CLEAN OUT
CLEAN OUT
CONCRETE
DUCTILE IRON PIPE
DOMESTIC
EAST BOUND LANE
ELST CENTERLINE CORRUGATED METAL PIPE CO OCH DIDBEG CLEVE DATE OF THE FILE GREET REPORT OF THE PROPERTY OF THE CONTRACTOR OF THE PROPERTY OF THE CONTRACTOR OF OVERHEAD
PORTLAND CEMENT CONCRETE
PROPOSED
PAVEMENT
SANITARY
SEWER
STANDARD
SIDEWALK
TOR OS CURR

TOP OF CURB
TELEPHONE
TEST PIT OR TREE PROTECTION
TOP OF WALL OR TAILWATER
UTILITY POLE

UTILITY POLE
UNDERGROUND
UNDERGROUND ELECTRIC
UNDERGROUND TELEPHONE
UNDERGROUND CABLE
UNDERGROUND
WATER LINE
WATER LINE
WATER METER

EXISTING EX. E.P. EX. C & G

EDGE OF PAVEMENT CURB AND GUTTER PROPOSED HEADER CURI LOT LINE EASEMENT

LEGEND

PROPOSED

8" DIP W/M

WATER LINE WATER VALVE REDUCER CABLE TV ELECTRIC SERVICE-UNDERGRO ELECTRIC SERVICE-OVERHEAD

OVERHEAD TELEPHONE TELEPHONE SERVICE SPOT ELEVATION + 25.32 TRANSFORMER

STORM DRAIN IDENTIFIER

WATER METER FIRE HYDRANT STREET LIGHT

TEST PIT LOCATION RECOMMENDED/REQUIRE HANDICAP RAME

CONCRETE SIDEWALK

T

!--+

1401PENNSYLVANIA CIVIL



COVER SHEET C1.00 May 28, 2015

LINE TABLE - LOT 142				
	SURVEYED		RECORD	
LINE#	DIRECTION	LENGTH	DIRECTION	LENGTH
L1	N 90'00'00" E	40.66'	N 90'00'00" E	40.00'
L2	S 62'27'00" E	132.02'	S 62'17'55" E	131.17
L3	S 27'33'00" W	92.42'	S 27"42'05" W	92.64'
L4	L5 N 00'00'00" E 143.00'		N 90'00'00" W	113.07
L5			N 00'00'00" E	143.00'
AREA			17,020 SQ.FT. OR 0.39073 AC.	

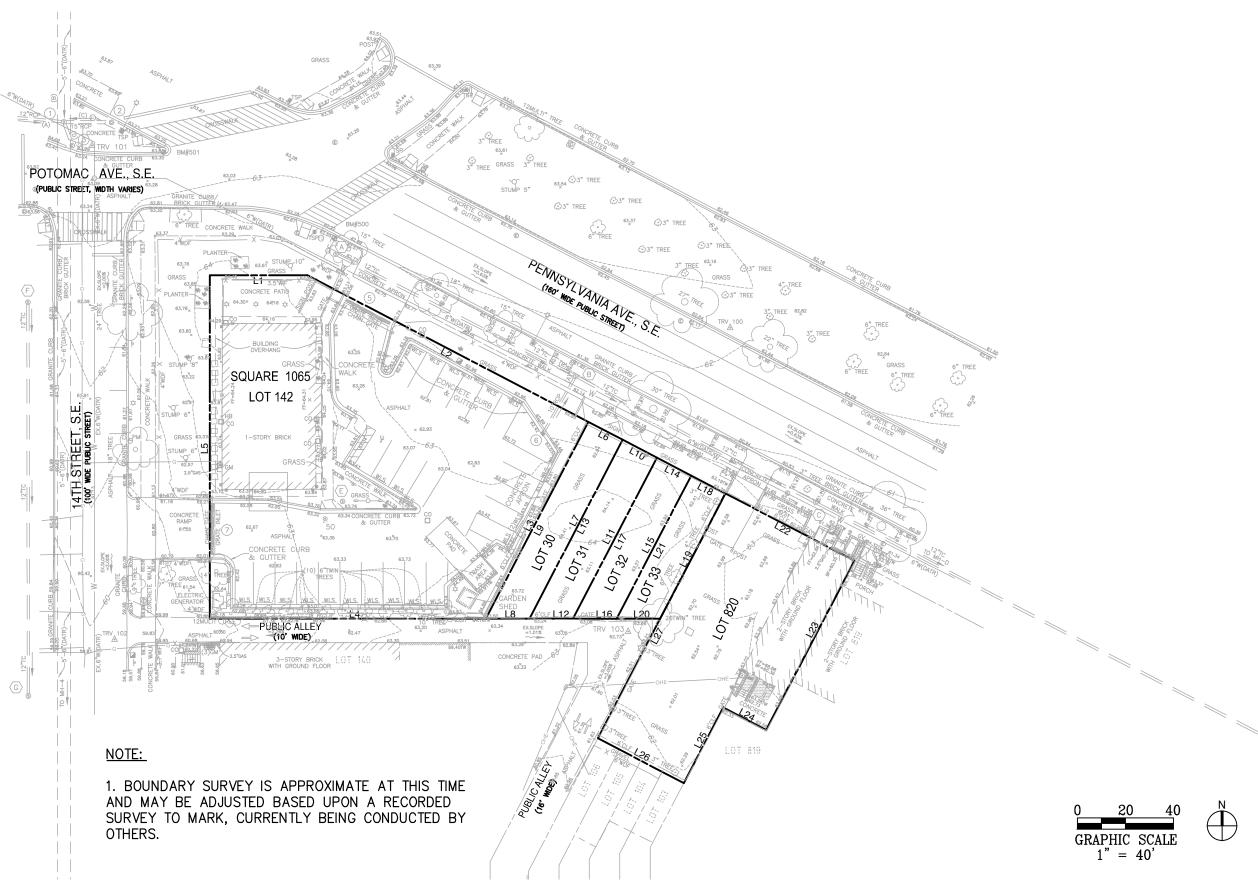
LINE TABLE - LOT 30				
LINE #	SURVEYED		RECORD	
LINE#	DIRECTION	LENGTH	DIRECTION	LENGTH
L6	S 62'27'00" E 16.10'		S 62°17'55" E	16.00'
L7	S 27°33'00" W 84.02'		S 27'42'05" W	84.24'
L8	N 90'00'00" W	N 90°00'00" W 18.16'	N 90°00'00" W	18.07'
L9	N 27'33'00" E 92.42' 1,420 SQ.FT. OR 0.03260 AC.		N 27'42'05" E	92.64
AREA			1,415 SQ.FT. OR	0.03248 AC.

LINE TABLE - LOT 31				
LINE#	SURVEYED		RECORD	
LINE#	DIRECTION	LENGTH	DIRECTION	LENGTH
L10	S 62'27'00" E 16.10'		S 62'17'55" E	16.00'
L11	S 27'33'00" W	75.61'	S 27'42'05" W	75.84'
L12	N 90,00,00, M	18.16	N 90'00'00" W	18.07
L13	N 27'33'00" E	84.02'	N 27'42'05" E	84.24
AREA	1,285 SQ.FT. OR 0.	02950 AC.	1,281 SQ.FT. OR (0.02941 AC.

LINE TABLE - LOT 32				
	SURVEYED		RECORD	
LINE#	DIRECTION	LENGTH	DIRECTION	LENGTH
L14	4 S 62'27'00" E 16.10		S 62'17'55" E	16.00'
L15	S 27'33'00" W	67.21'	S 27'42'05" W	67.44
L16	N 90'00'00" W	18.16	N 90,00,00, M	18.07
L17	N 27'33'00" E	75.61'	N 27'42'05" E	75.84'
AREA	1,150 SQ.FT. OR 0.02640 AC. 1,		1,146 SQ.FT. OR (0.02631 AC.

LINE TABLE - LOT 33				
LINE#	SURVEYED		RECORD	
LINE #	DIRECTION	LENGTH	DIRECTION	LENGTH
L18	8 S 62°27'00" E 16.10'		S 62'17'55" E	16.00'
L19	S 27'33'00" W 58.81		S 27'42'05" W	59.04'
L20	N 90'00'00" W 18.16'	18.16'	N 90'00'00" W	18.07'
L21			N 27'42'05" E 67.44	
AREA			1,012 SQ.FT. OR	0.02323 AC.

LINE TABLE - LOT 820				
LINF#	SURVEYED		RECORD	
LINE #	DIRECTION	LENGTH	DIRECTION	LENGTH
L22	S 62'27'00" E 60.60'		S 62°17'55" E	60.00'
L23	S 27'33'00" W	79.54	S 27°42'05" W	79.78'
L24	N 62°27'00" W	20.20'	N 62°17'55" W	20.00'
L25	S 27'33'00" W 35.46'		S 27°42'05" W	35.22'
L26	N 62°27'00" W	40.40'	N 62°17'55" W	40.00'
L27	N 27'33'00" E 115.00'		N 27°42'05" E	115.00'
AREA	6,253 SQ.FT. OR 0.14354 AC.		6,196 SQ.FT. OR	0.14224 AC.





SEDIMENT AND EROSION CONTROL NARRATIVE:
INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING SILT FENCE,
INLET PROTECTION, TREE PROTECTION, AND STABILIZED CONSTRUCTION
ENTRANCE AT SITE. FOLLOWING DISCONNECTION OF UTILITIES, CONCRETE ENTRANCE AND EXISTING CURB RAMPS. DURING DEMOLITION, DEBRIS WILL BE REMOVED FROM SITE BY TRUCK. CONTRACT DC DEPARTMENT OF THE ENVIRONMENT, WATERSHED PROTECTION DIVISION AT 202–535–2250 TO SCHEDULE PRE-CONSTRUCTION MEETING.

TOTAL SITE AREA: 28,098 SF (0.645 ACRES)
AREA TO BE DISTURBED: 40,618 SF (0.933 ACRES) VOLUME OF EARTH TO BE REMOVED: `±12,488 CY (ASSUMING 12' OF EXCAVATION OVER FOOTPRINT)

SEDIMENT AND EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
- 2. PROVIDE SILT FENCE AT THE PERIMETER OF DISTURBED AREA OR EXCAVATION TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR OTHERWISE APPROVED BY
- 3. PROVIDE CONSTRUCTION FENCE AT THE PERIMETER OF DISTURBED AREA OR EXCAVATION TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR OTHERWISE
- CONTRACTOR TO MAINTAIN ON—SITE STAMPED AND SIGNED, SEDIMENT AND EROSION CONTROL DRAWINGS APPROVED BY THE DEPARTMENT OF THE ENVIRONMENT, WATERSHED PROTECTION DIVISION.
- THE APPLICATION MUST NOTIFY THE DEPARTMENT OF THE ENVIRONMENT BY PHONE (202-535-2250) AT LEAST 24 HOURS PRIOR TO START OF GRADING ACTIVITY AND WITHIN TWO (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF THE ENVIRONMENT $\stackrel{\square}{\longrightarrow}$ MUST BE NOTIFIED IMMEDIATELY.

- CONSTRUCTION AND STABILIZATION SEQUENCE:

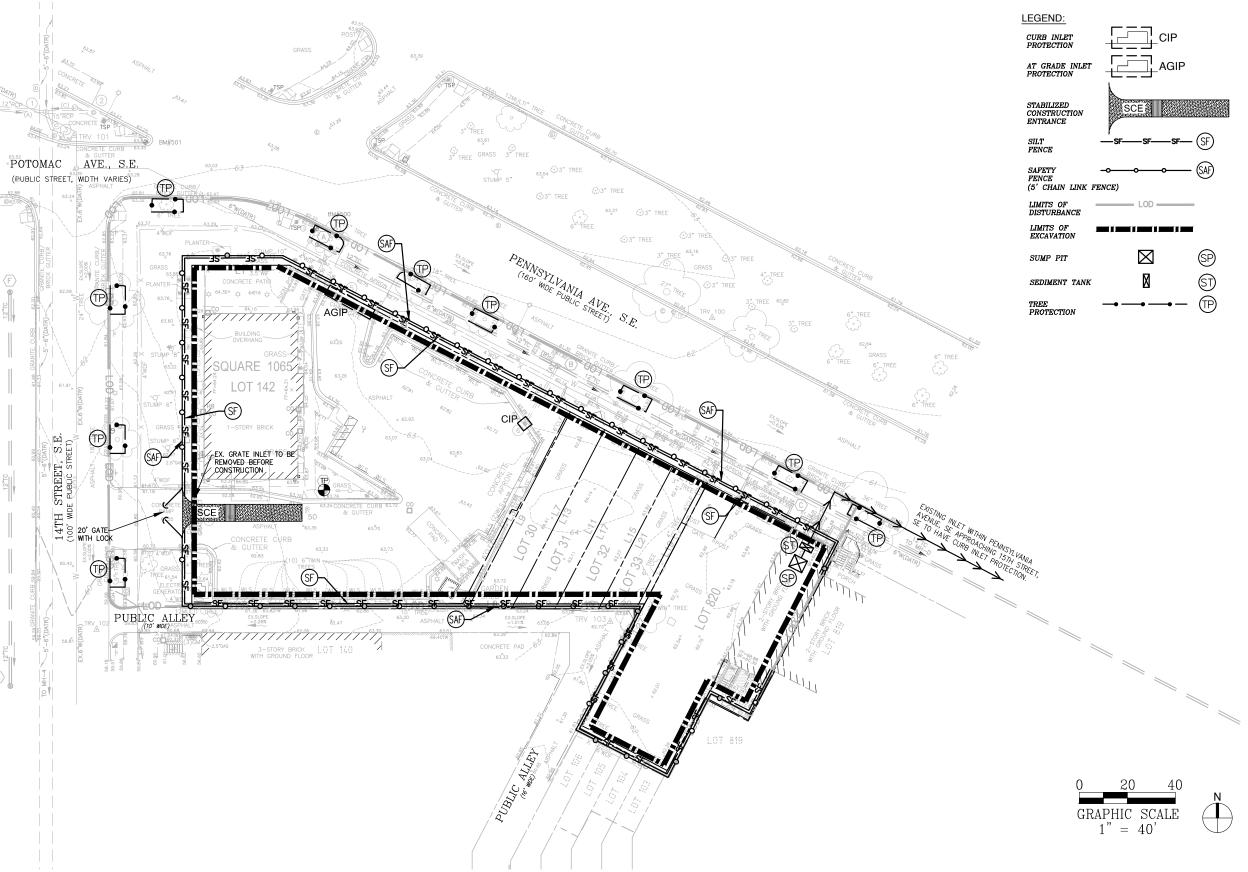
 1. CONTACT DC WATERSHED PROTECTION DIVISION AT 202-535-1364 TO
- SCHEDULE THE PRE-CONSTRUCTION MEETING PRIOR TO MOBILIZATION.
 INSTALL SEDIMENT AND EROSION CONTROL MEASURES AS NEEDED INCLUDING STABILIZED CONSTRUCTION ENTRANCE, WASH RACK, INLET PROTECTION, AND SILT FENCE AS INDICATED ON THIS SHEET. SEE SHEET C5.02 FOR SEDIMENT AND EROSION CONTROL DETAILS.
- SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
- DISCONNECT UTILITIES AND RAZE BUILDING TO SURFACE.
 AT THE COMPLETION OF THIS PHASE OF CONSTRUCTION, FOLLOWING SITE STABILIZATION AND UPON INSPECTOR'S APPROVAL, TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES CAN BE REMOVED.

CONSTRUCTION DATES:

- THE PROPOSED WORK DUE TO COMMENCE IN THE SPRING OF 2017 AND IS ANTICIPATED TO TAKE APPROXIMATELY 12 MONTHS. EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE
- ESTABLISHED BY THE OWNER.

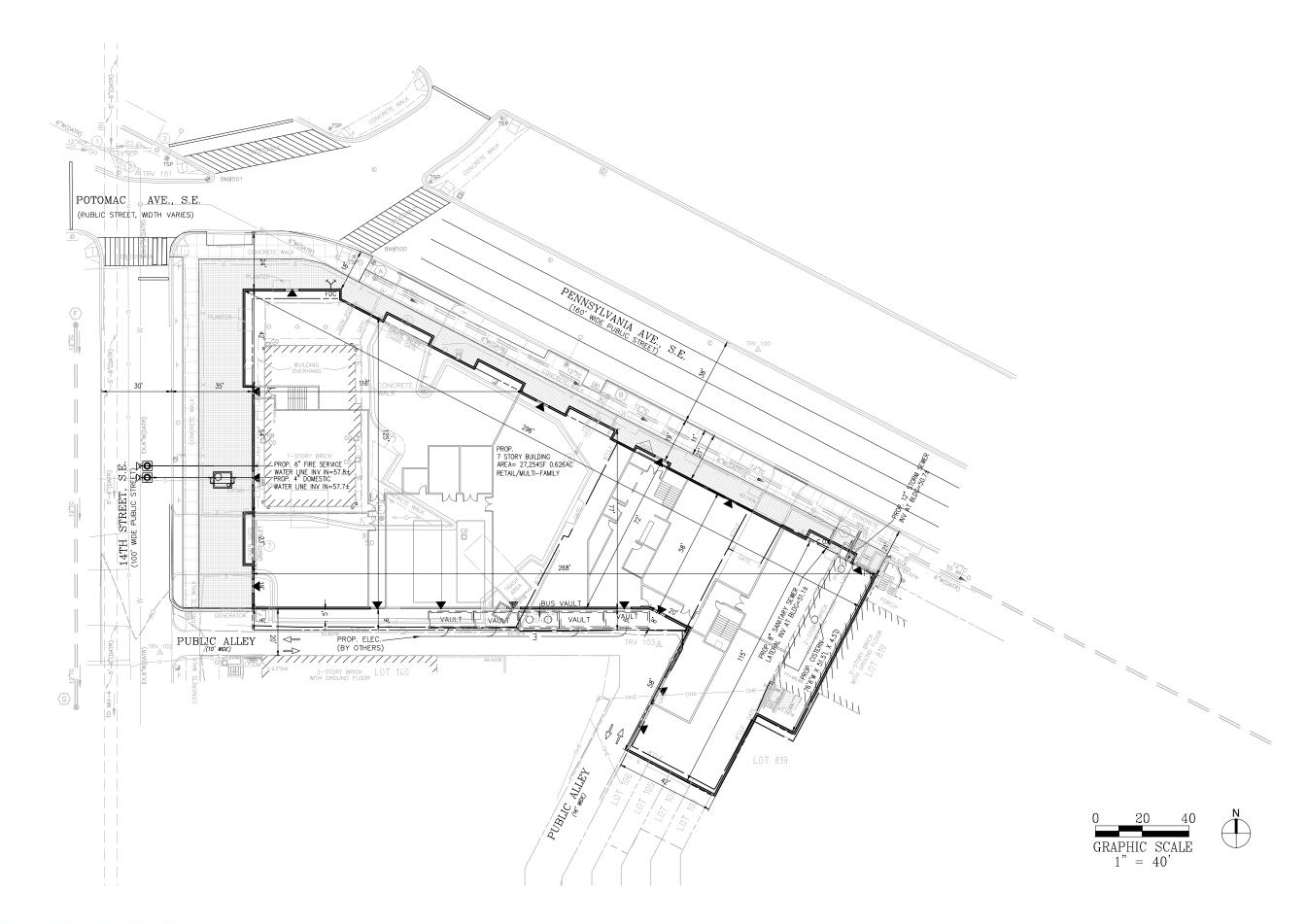
DUST CONTROL NOTES:

- 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.
- THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST
- THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLY OF ACCESSING ALL WORK AREAS.
 THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES
- DURING ACTIVE CONSTRUCTION PERIODS ON SITE. THESE 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.
- FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, TH CONTRACTOR SHALL:
- A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE;
- B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING, AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER; C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8)
- K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITIONS AND/OR EXCAVATION, THE CONTRACTOR SHALL: A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH
- DISCHARGE GAUGES, HOSES, AND MIST NOZZLES; B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE
- AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING: C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY
- DISTURBED AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION



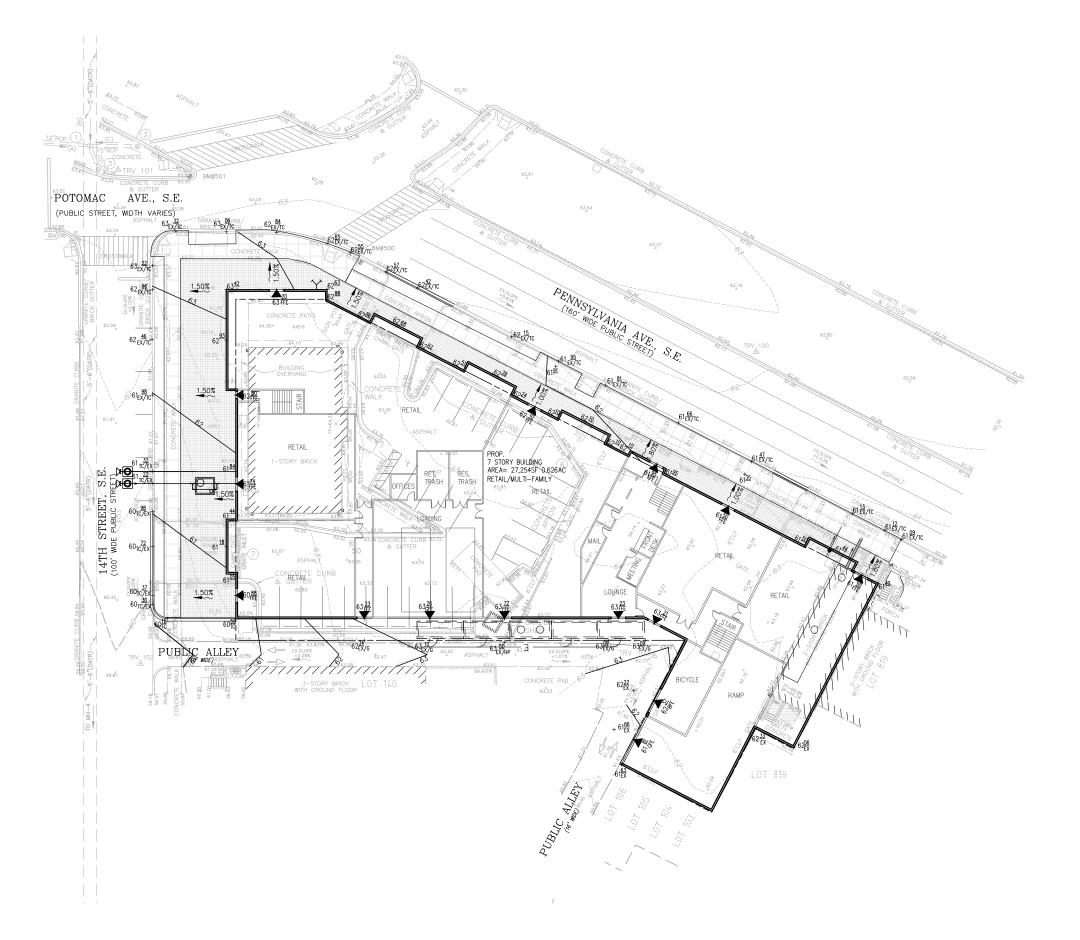


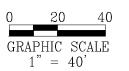




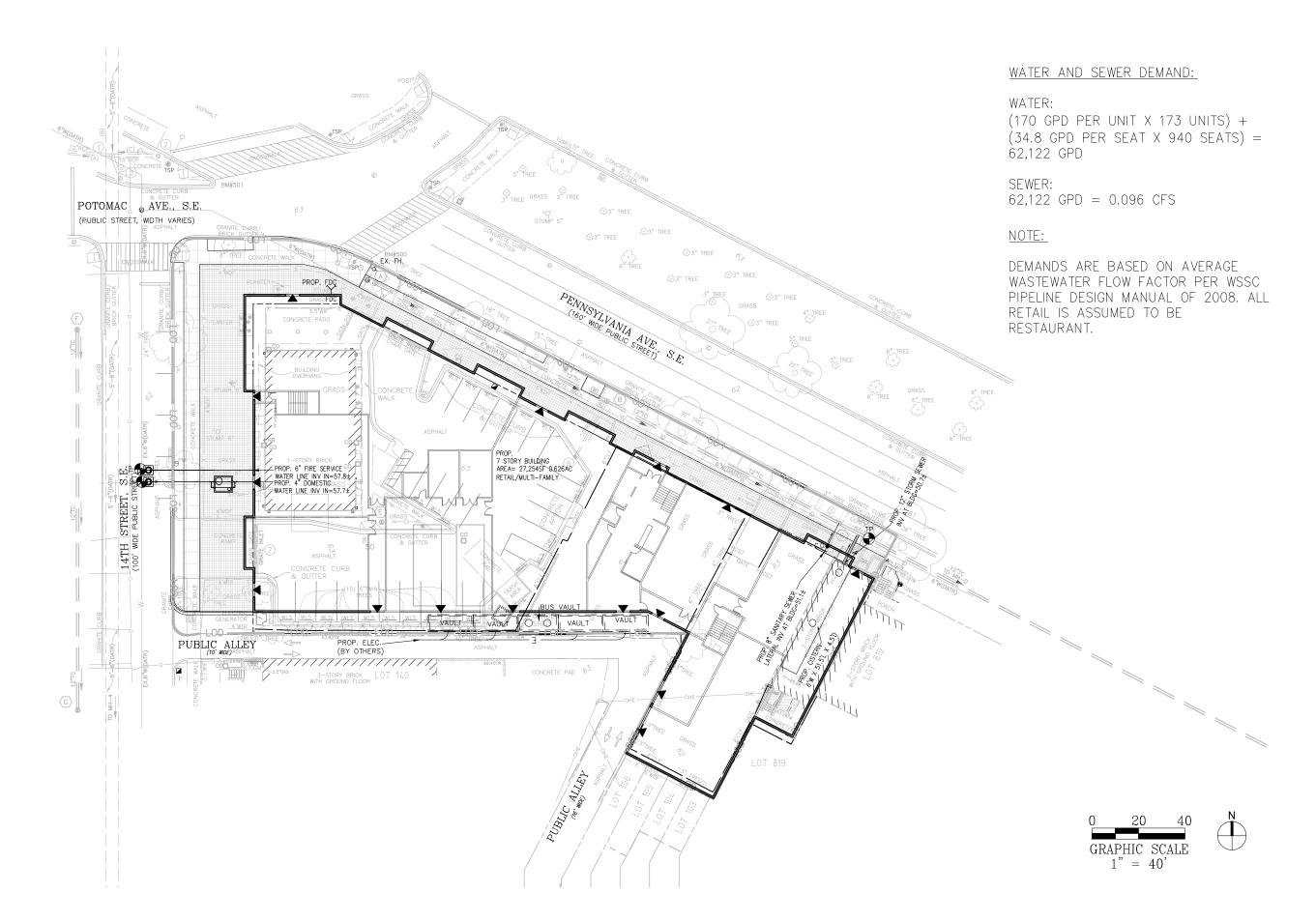


SITE PLAN C1.03









STANDARDS AND SPECIFICATIONS FOR DUST CONTROL:

- THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THRO
- THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER

CONSTRUCTION PERIODS ON SITE. THESE 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
- B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING, AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF CROLIND WITH WATER:
- CONFILIE COVERAGE OF GROUND WITH WATER,

 C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM.

 KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.

 FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITIONS AND/OR EXCAVATION, THE
- 6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITIONS AND/ON EXCAVATION, THE CONTRACTOR SHALL:

 A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGES,

HOSES, AND MIST NOZZLES;

B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE DISTURBED AREA CAN BE

BY THE THE PROPERTY OF THE PROPERTY

KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING;
C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE

DISTRICT OF COLUMBIA STANDARD SEDIMENT CONTROL NOTES:

- 1. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF IN EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA IF AN ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY THE SAME
- SHALL BE PROVUED.
 ALL DEBRIS OBE REMOVED FROM SITE.
 ALLEY AND/OR STREETS SHALL BE SWEPT CLEAN AT ALL TIMES DURING EXCAVATION AND
 CONSTRUCTION.
 ALL CATCH BASINS AND AREA DRAINS SHALL BE PROTECTED DURING EXCAVATION AND
- 5. IF ANY CATCH BASIN OR DRAIN BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS CLEANING
- 6. WHEN A SEDIMENT TRAP/SEDIMENT TANK HAS REACHED 67% CAPACITY, CLEAN OUT OF SAME ANY STOCKPILING, REGARDLESS OF LOCATION ON THE SITE, SHALL BE STABILIZED WITHIN 28
- DAYS AFTER ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT

37.0 STANDARDS AND SPECIFICATIONS FOR LAND GRADING:

DEFINITION: RESHAPING OF THE EXISTING LAND SURFACE IN ACCORDANCE WITH A PLAN AS

PURPOSE: THE PURPOSE OF LAND GRADING SPECIFICATIONS IS TO PROVIDE FOR EROSION CONTROL AND VEGETATIVE ESTABLISHMENT ON THOSE AREAS WHERE THE EXISTING LAND SURFACE IS TO BE RESHAPED BY GRADING ACCORDING TO A PLAN.

DESIGN CRITERIA: THE GRADING PLAN SHOULD BE BASED UPON THE INCORPORATION OF BUILDING DESIONS AND STREET LAYOUTS THAT FIT AND UTILIZE EXISTING TOPOGRAPHY AND DESIGNAE. NO DESIGNAE AND STREET LAYOUTS THAT FIT AND UTILIZE EXISTING TOPOGRAPHY AND DESIGNABLE NATURAL SURROUNDINGS TO AVOID EXTREME CRADE MODIFICATIONS. INFORMATION TO DETERMINE LIMITATIONS THAT MUST BE IMPOSED UPON THE GRADING OPERATION RELATED TO SLOPE STABILITY, EFFECT ON ADJACENT PROPERTIES, AND DRAINAGE PATTERNS, MEASURES FOR DRAINAGE AND WATER REMOVAL AND VEGETATIVE TREATMENT, ETC.

THE PLAN MUST SHOW EXISTING AND PROPOSED CONTOURS OF THE AREA(S) TO BE GRADED. THE

SHALL ALSO INCLUDE PRACTICES FOR EROSION CONTROL, SLOPE STABILIZATION, SAFE DISPOSAL OF

WATER AND DRAINAGE, SUCH AS WATERWAYS, LINED DITCHES, REVERSE SLOPE BENCHES (INCLUDE GRADE AND CROSS SECTION), GRADE STABILIZATION STRUCTURES, RETAINING WALLS, AND SURFACE

SUBSURFACE DRAINS. THE PLAN SHALL ALSO INCLUDE PHASING OF THESE PRACTICES. THE SHALL BE INCORPORATED INTO THE PLANS

- PROWSIONS SHALL BE MADE TO SAFELY CONDUCT SURFACE RUNOFF TO STORM DRAINS, PROTECTED OUTLETS OR TO STABLE WATER COURSES TO INSURE THAT SURFACE RUNOFF WILL NOT DAMAGE SLOPES OR OTHER GRADED AREAS.
- 2. CUT AND FILL SLOPES THAT ARE TO BE STABILIZED WITH GRASSES SHALL NOT BE STEEPER THAN 2:1. (WHERE THE SLOPE IS TO BE MOWED THE SLOPE SHOULD BE NO STEEPER THAN 3:1; 4:1 IS PREFERRED BECAUSE OF SAFETY FACTORS RELATED TO MOWING STEEP SLOPES.) SLOPES EXCEEDING 2:1 SHALL REQUIRE SPECIAL DESIGN AND STABILIZATION CONSIDERATIONS THAT SHALL BE ADEQUATELY SHOWN ON THE PLANS.
- 3. REVERSE BENCHES SHALL BE PROVIDED WHENEVER THE VERTICAL INTERVAL (HEIGHT) OF ANY 2:1 REVENSE BERCHES 20 HEET; FOR 3:1 SLOPE IT SHALL BE INDEEDED TO FEET AND FOR 4:1 TO 40 FEET. BENCHES SHALL BE LOCATED TO DIVIDE THE SLOPE FACE AS EQUALLY AS POSSIBLE AND SHALL BE LOCATED TO DIVIDE THE SLOPE FACE AS EQUALLY AS POSSIBLE AND SHALL COUNTY THE WATER TO A STABLE OUTLET, SOILS, SEPS, ROCK OUTCROPS, ETC., SHALL ALSO BE TAKEN INTO CONSIDERATION WHEN DESIGNING BENCHES.

B. BENCHES SHALL BE DESIGNED WITH A REVERSE SLOPE OF 6:1 OR FLATTER TO THE TOE OF THE UPPER SLOPE AND WITH A MINIMUM OF ONE FOOT IN DEPTH. BENCH GRADIENT TO THE OUTLET SHALL BE BETWEEN 2 PERCENT AND 3 PERCENT, UNLESS ACCOMPANIED BY

C. THE FLOW LENGTH WITHIN A BENCH SHALL NOT EXCEED 800' UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS. FOR FLOW CHANNEL STABILIZATION, SEE TEMPORARY

37.0 STANDARDS AND SPECIFICATIONS FOR LAND GRADING:

- 4. SURFACE WATER SHALL BE DIVERTED FROM THE FACE OF ALL CUT AND/OR FILL SLOPES BY THE USE OF EARTH DIKES, DITCHES AND SWALES OR CONVEYED DOWNSLOPE BY THE USE OF A DESIGNED STRUCTURE, EXCEPT WHERE:
 - A. THE FACE OF THE SLOPE IS OR SHALL BE STABILIZED AND THE FACE OF ALL GRADED SLOPES SHALL BE PROTECTED FROM SURFACE RUNOFF UNTIL THEY ARE STABILIZED.
 - SURFACE WATER SUCH AS FROM NATURAL DRAINAGEWAYS, GRADED SWALES, DOWNSPOUTS,
 - C. THE FACE OF THE SLOPE WILL BE PROTECTED BY SPECIAL EROSION CONTROL MATERIALS, TO INCLUDE, BUT NOT LIMITED TO: APPROVED VEGETATIVE STABILIZATION PRACTICES (SEE SECTION G), RIP-RAP OR OTHER APPROVED STABILIZATION METHODS.
- CUT SLOPES OCCURRING IN RIPABLE ROCK SHALL BE SERRATED AS SHOWN IN DETAIL 70, SERRATED SLOPES ON THE FOLLOWING DIAGRAM. THESE SERRATIONS SHALL BE MADE WITH CONVENTIONAL EQUIPMENT AS THE EXCAVATION IS MADE. EACH STEP OR SERRATION SHALL BE CONSTRUCTED ON THE CONTOUR AND WILL HAVE STEPS CUT AT NOWINAL TWO-FOOT INTERVALS WITH NOWINAL THREE-FOOT HORIZONTAL SHELVES. THESE STEPS WILL VARY DEPENDING ON THE SLOPE RATIO OR THE CUT SLOPE. THE NOWINAL SLOPE LINE IS 15:5: THESE STEPS WILL WEATHER AND ACT TO HOLD MOSTURE, LIME, FERTILIZER AND SEED THIS SERVICUS A MICHOLOGY OF AND SETED THIS DEPOLICING AND MICHOSED MOST PROPERLY AND SEED THIS DEPOLICING AND MICHOSED MOST PROPERLY AND SEED THIS DEPOLICING A MICHOLOGY OF AND SETTER PAND SETTER. THUS PRODUCING A MUCH QUICKER AND LONGER LIVED VEGETATIVE COVER AND BETTER SLOPE STABILIZATION, OVERLAND FLOW SHALL BE DIVERTED FROM THE TOP OF ALL SERRATED CUT SLOPES AND CARRIED TO A SUITABLE OUTLET.
- 6 SUBSURFACE DRAINAGE SHALL BE PROVIDED WHERE NECESSARY TO INTERCEPT SEEPAGE THAT WOULD OTHERWISE ADVERSELY AFFECT SLOPE STABILITY OR CREATE EXCESSIVELY WET
- SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATELY PROTECTING SUCH PROPERTIES AGAIN SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED
- 8. FILL MATERIAL SHALL BE FREE OF SNOW, ICE, FROZEN MATERIALS, TRASH, BRICK, CLAY LUMPS, HAZARDOUS MATERIAL, BROKEN CONCRETE, TREE ROOTS, SOD, ASHES, CINDERS, GLASS, PLASTER, ORGAINIC MATTER, BRUSH, LOGS, STUMPS, BUILDING DEBRIS AND ANY OTHER FOREIGN MATERIAL, IT SHOULD BE FREE OF STONES OVER TWO (2) INCHES IN DIAMETER WHERE COMPACTED BY HAND OR MECHANICAL TAMPERS OR OVER EIGHT (8) INCHES IN DIAMETER WHERE COMPACTED BY ROLLERS OR OTHER FOLIPMENT EROZEN MATERIAL SHALL NOT BE PLACED IN THE FILL NOR SHALL THE FILL MATERIAL BE PLACED
- COMPLIANCE WITH 42.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION.

38.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL:

DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF

PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS. UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES:

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO
- b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OF FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAWING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAWING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS:

- I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS, TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED IN THE NRCS DISTRICT OF COLUMBIA SOIL
- II. TOPSOIL SPECIFICATIONS SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING

I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE WATERSHED PROTECTION DIVISION. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 11/2 " IN DIAMETER.

II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OTHER POSIONOUS PLANTS OR OTHERS AS SPECIFIED.

III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-B TONS/ACRE (200-400 POUNDS PER 1,000 SOUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

38.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL, CONT.:

- III FOR SITES HAVING DISTURBED AREAS LINDER 5 ACRES
- i, place topsoil (if required) and apply soil amendments as specified in 42.0 vegetative stabilization section i vegetative stabilization method and materials.
- AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
- D. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0. SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
- b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
- c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE
- d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE WATERHED PROTECTION AGENCY, MAY BE USED IN LIEU OF NATURAL

- II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 42.0 VEGETATIVE STABILIZATION - SECTION I- VEGETATIVE STABILIZATION METHOD AND MATERIALS.
- i. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.

II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4^m-8^n HIGHER IN ELEVATION.

- III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND
- TILLAGE, ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS FORMATION OF DEPRESSIONS OR WATER POCKETS
- IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADNO AND SEEDBED PREPARATION.
- COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW: . COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS

OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

- a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT HE TIME OF ACQUISITION OF THE COMPOST) BY EITHER THE STATE OF MARTLAND OR THE STATE OF VIRGINA.
- b. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT MITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIMA AND HAVE A PH 0 F 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS
- c. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
- ii. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD- V A, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

STANDARDS AND SPECIFICATIONS FOR VEHICLE WASH RACK:

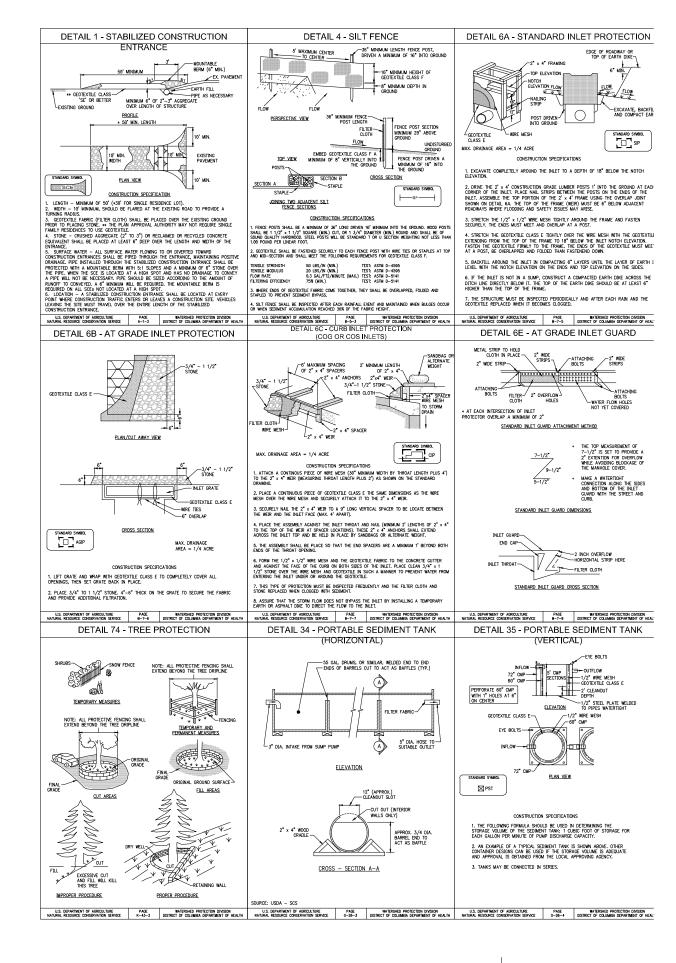
DEFINITION: AN ON-SITE AREA WHERE TIRES AND UNDER CARRAIGE OF A VEHICLE CAN BE WASHED.

PURPOSE: THE "VEHICLE WASH AREA" IS PROVIDED TO MINIMIZE THE QUANTITY OF SEDIMENT DEPOSITED ON PUBLIC SPACE BY VEHICLES LEAVING THE SITE.

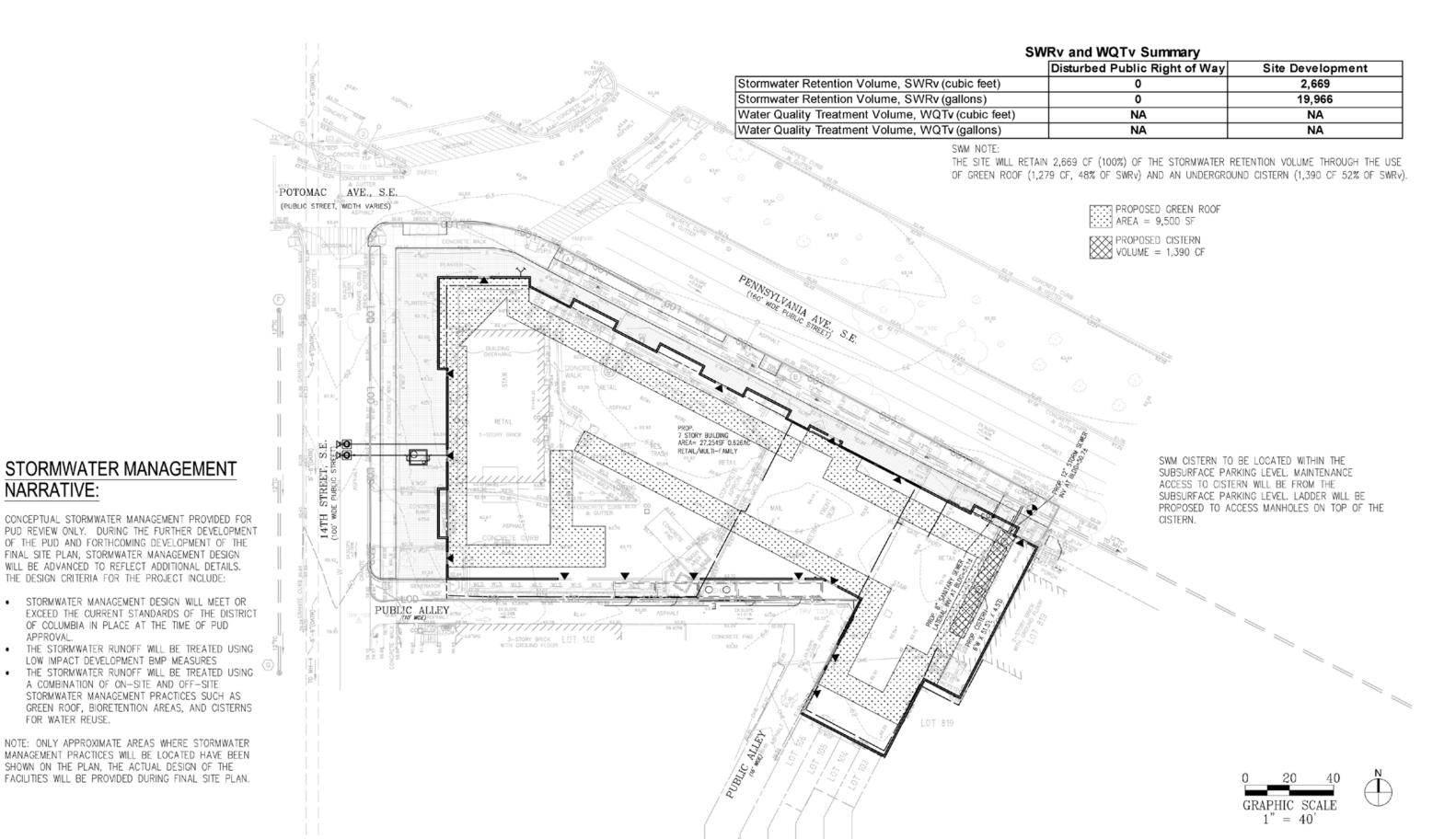
CONDITIONS WHERE PRACTICE APPLIES: THE "VEHICLE WASH AREA" SHALL BE PROVIDED ON-SITE AND DRAINED ON-SITE. THE AREA MAY BE CONSTRUCTED OF RUBBLE, OR OTHER HARD POROUS MATERIAL. A WORKING WATER HOSE MUST BE LOCATED IN THE AREA DURING ALL CONSTRUCTION ACTIVITY.

1.		
FABRIC PROPERTIES	MINIMUM ACCEPTABLE VALUE	TEST METHOD
GRAB TENSILE STRENGTH (LBS)	90	ASTM D1682
ELONGATION AT FAILURE (%)	50	ASTM D1682
MULLEN BURST STRENGTH (PSI)	190	ASTM D3788
PUNCTURE STRENGTH (LBS)	50	ASTM D751
SLURRY FLOW RATE (GAL/MIN/SF	0.3	MODIFIED VIRGINIA DOT VTM-51
EQUIVALENT OPENING SIZE	40-80	US ST SIEVE CW-02215
LILITRAVIOLET PADIATION STABILIT	v /er\ 00	ACTM C DE

- 2 FENCE POST (FOR FARRICATION UNITS): THE LENGTH SHALL BE A MINIMUM OF 36 INCHES LONG WOOD POSTS WILL BE OF SOUND QUALITY HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 30 SOLIARE INCHES. STEEL POSTS WILL BE STANDARD T AND U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
- WIRE FENCE (FOR FABRICATED UNITS): WIRE FENCING SHALL BE A MINIMUM OF 14 GAUGE 6" MESH OPENING, OR AS APPROVED.
- PREFABRICATED UNITS: ENVIRONFENCE OR APPROVED EQUIVALENT MAY BE USED IN LIEU OF THE ABOVE METHOD PROVIDING THE UNIT IS INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.









NARRATIVE:

FOR WATER REUSE.