

2100 PENNSYLVANIA AVENUE NW

Washington, DC



Pelli Clarke Pelli Architects
322 Eighth Avenue, 11th Floor
New York, New York 10001
T 212 417 9496
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Seal/Signature

Date

04/12/2017

Project Name

2100 PENNSYLVANIA AVENUE NW

Project Number

A1613

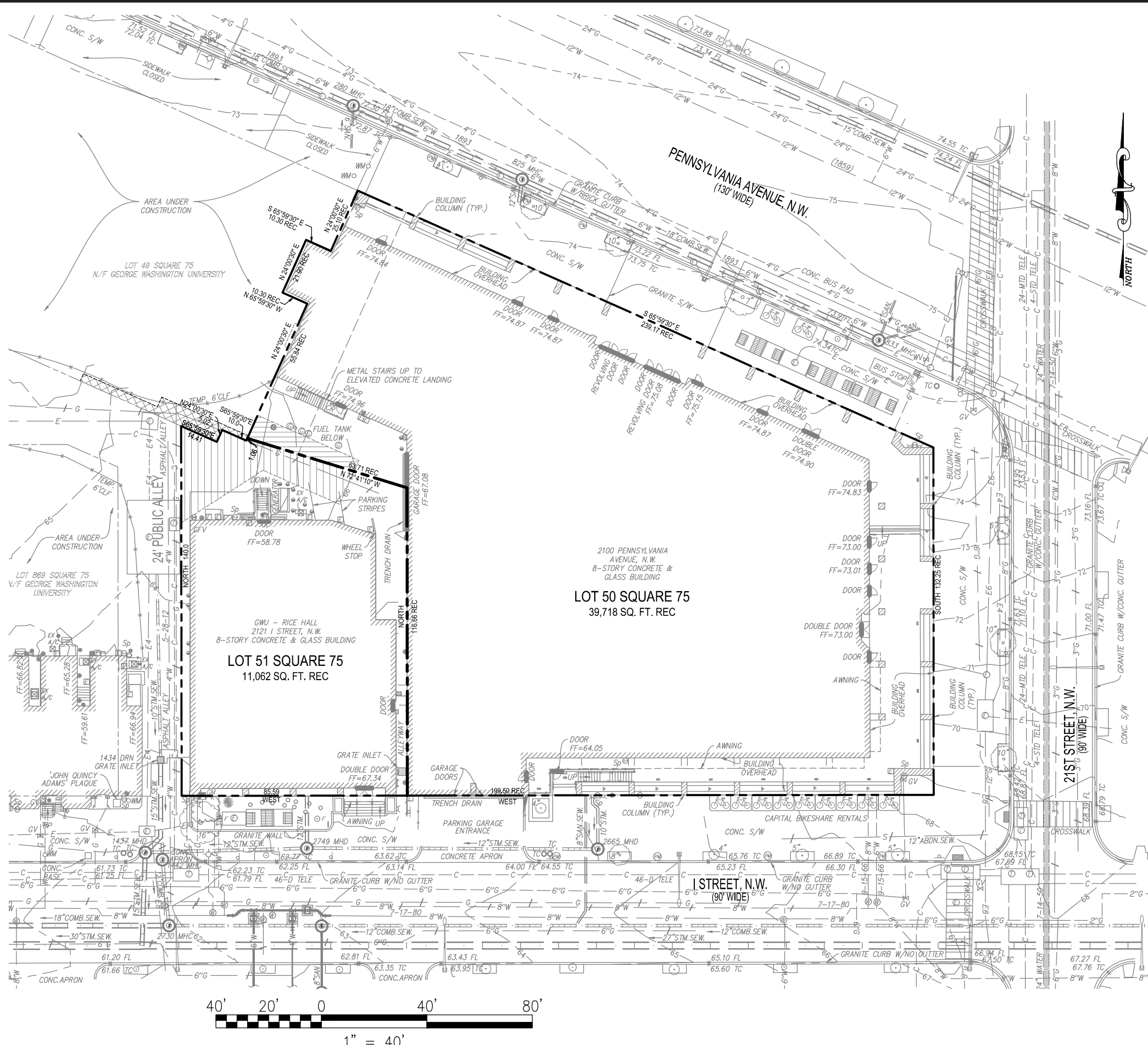
Description

EXISTING CONDITIONS PLAN

Scale

C-101

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STRUCTURE TABLE	
STRUCTURE NAME	STRUCTURE DETAILS
273 MHC	RIM = 71.63 18" INV IN = 60.90 SE 12" INV IN = 66.76 NE 18" INV OUT = 60.79 NW
280 MHC	RIM = 72.57 18" INV IN = 61.84 SE 6" INV IN = 69.94 S 18" INV OUT = 61.78 NW
825 MHC	RIM = 73.08 18" INV IN = 62.48 SE 12" INV IN = 63.83 S 18" INV OUT = 62.37 NW
833 MHC	RIM = 74.07 6" INV IN = 65.91 NE 6" INV IN = 65.31 E 18" INV OUT = 64.55 NW
1434 DRN	RIM = 62.65 10" INV IN = 58.80 N 15" INV OUT = 58.80 S
1437 MHD	RIM = 61.77 12" INV IN = 52.13 E 15" INV IN = 58.00 NE 15" INV OUT = 51.90 S
1442 MHC	RIM = 61.42 12" INV IN = 50.93 N 12" INV OUT = 50.66 S
2665 MHD	RIM = 64.99 10" INV IN = 58.35 N 12" INV OUT = 56.53 W
2730 MHC	RIM = 61.90 12" INV IN = 50.93 N 12" INV IN = 50.63 E 18" INV OUT = 50.65 W
2749 MHD	RIM = 63.09 12" INV IN = 55.06 E 12" INV IN = 53.05 N 12" INV OUT = 52.98 W

GENERAL NOTES:

1. THE INFORMATION SHOWN RESULTS FROM A FIELD SURVEY BY WILES MENSCH CORPORATION, LAST DATE OF FIELD SURVEY NOVEMBER 2, 2016.
2. BOUNDARY INFORMATION SHOWN HEREON WAS OBTAINED FROM OFFICIAL CITY RECORDS, AND VERIFIED IN THE FIELD INsofar AS POSSIBLE. PROPERTY LINE DIMENSIONS FROM OFFICIAL RECORDS MAY NOT NECESSARILY AGREE WITH ACTUAL MEASURED DIMENSIONS. ALL PROPERTY LINES IN THE DISTRICT OF COLUMBIA ARE SUBJECT TO CHANGE BY THE OFFICE OF THE SURVEYOR, D.C.
3. ELEVATIONS SHOWN ARE REFERENCED TO DCDPW DATUM (BM 5 & 6), MERIDIAN REFERENCED TO DCSO NORTH BY HOLDING RECORD BEARING OF PENNSYLVANIA AVENUE, N.W.
4. MERIDIAN REFERENCED TO DCSO NORTH BY HOLDING RECORD BEARING ON PENNSYLVANIA AVENUE, N.W.
5. PROPERTY IS IDENTIFIED AS ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS IDENTIFIED ON FIRM COMMUNITY PANEL 110001 0018C, EFFECTIVE DATE SEPTEMBER 27, 2010.
6. ADJACENT PROPERTIES AS SHOWN ON PLAT.

EXISTING CONDITIONS PLAN

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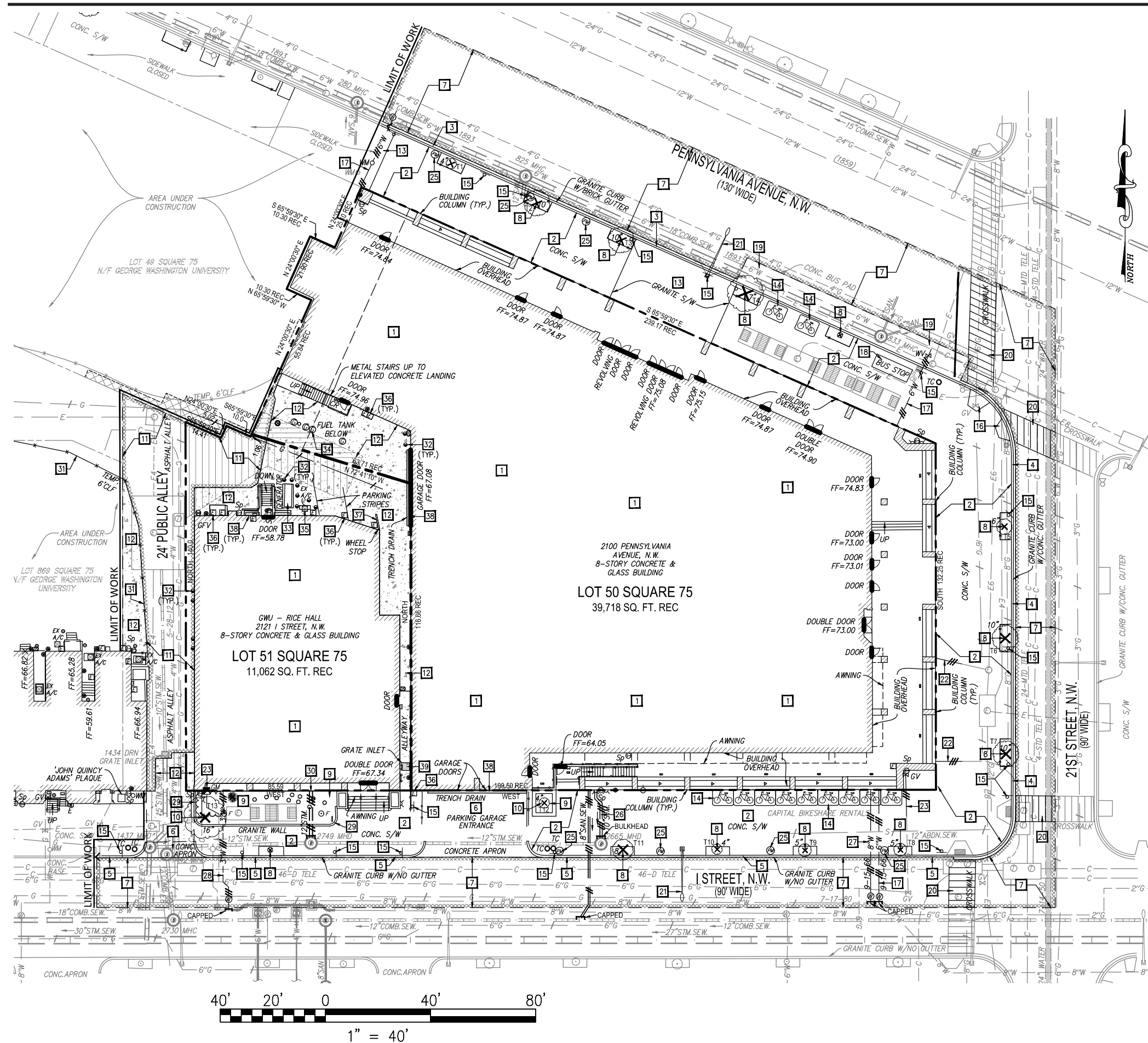
Description

DEMOLITION PLAN

Scale

C-102

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DEMOLITION KEYNOTES:

- 1 EXISTING BUILDING TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 2 EXISTING CONCRETE SIDEWALK TO BE REMOVED.
- 3 EXISTING GRANITE CURB AND BRICK GUTTER TO BE REMOVED FRONTING CONSTRUCTION PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 4 EXISTING GRANITE CURB AND CONCRETE GUTTER TO BE REMOVED FRONTING CONSTRUCTION PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 5 EXISTING GRANITE CURB TO BE REMOVED FRONTING CONSTRUCTION PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 6 EXISTING CONCRETE DRIVEWAY ENTRANCE TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 7 EXISTING ASPHALT PAVEMENT (SURFACE COURSE) TO BE REMOVED FROM FACE OF CURB TO THE CENTERLINE OF STREET PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 8 EXISTING STREET TREE TO BE REMOVED. COORDINATE REQUIREMENTS WITH DC/DDOT URBAN FORESTRY DIVISION FOR PERMIT PRIOR TO REMOVAL. EXISTING TREES ARE TO BE REMOVED BY THE CONTRACTOR AT THE COMMENCEMENT OF SUPPORT OF EXCAVATION.
- 9 EXISTING PLANTERS TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 10 EXISTING ORNAMENTAL TREE TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 11 EXISTING ALLEY ASPHALT PAVEMENT TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 12 EXISTING ALLEY CONCRETE PAVEMENT TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 13 EXISTING GRANITE SIDEWALK TO BE REMOVED.
- 14 EXISTING BIKE RACKS TO BE REMOVED AND RELOCATED.
- 15 EXISTING SIGN TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 16 EXISTING HANDICAP RAMP TO BE REMOVED AND REPLACED PER DDOT STANDARDS AND SPECIFICATIONS.
- 17 EXISTING 6" WATER SERVICE TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. REMAINDER TO BE ABANDONED AND VALVE AND RELATED APPURTENANCES TO BE REMOVED AND CAPPED AT THE MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 18 EXISTING BUS STOP TO BE REMOVED AND RELOCATED FOR THE DURATION OF CONSTRUCTION. COORDINATE REQUIREMENTS WITH DC/DDOT PRIOR TO REMOVAL.
- 19 EXISTING CONCRETE BUS PAD TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- 20 EXISTING CROSSWALK AND RELATED STRIPING TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 21 EXISTING PENDANT POLE TO BE REMOVED PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 22 EXISTING PEPCO ELECTRIC DUCTBANK TO BE REMOVED PER PEPCO STANDARDS AND SPECIFICATIONS TO EXTENT NECESSARY FOR NEW CONSTRUCTION. REMAINDER OF LINE TO BE ABANDONED. COORDINATE REQUIREMENTS WITH PEPCO PRIOR TO REMOVAL.
- 23 EXISTING GAS SERVICE AND METER TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. REMAINDER OF EXISTING LINE NOT NEEDED FOR FUTURE USE TO BE REMOVED AND ABANDONED IN PLACE. COORDINATE WITH WASHINGTON GAS PRIOR TO REMOVAL.
- 24 EXISTING 8" WATER SERVICE TO BE REMOVED TO FACILITATE NEW UTILITY CONSTRUCTION. VALVE AND RELATED APPURTENANCES TO BE REMOVED AND CAPPED AT THE MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 25 EXISTING PARKING METER TO BE REMOVED (IF REQUIRED). COORDINATE REQUIREMENTS WITH DC/DDOT PARKING METER DIVISION'S MR. JERRY LYLE AT (202) 671-2367.
- 26 EXISTING 10" STORM SEWER TO BE REMOVED TO FACILITATE NEW CONSTRUCTION. CONNECTION TO BE BULKHEAD AT MANHOLE PER DC/WATER STANDARDS AND SPECIFICATIONS TO EXTENT NECESSARY FOR PROPOSED MANHOLE AND LATERAL CONNECTION.
- 27 EXISTING 6" WATER SERVICE TO BE REMOVED TO FACILITATE NEW UTILITY CONSTRUCTION. VALVE AND RELATED APPURTENANCES TO BE REMOVED AND CAPPED AT THE MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 28 EXISTING 3" WATER SERVICE TO BE REMOVED TO FACILITATE NEW UTILITY CONSTRUCTION. VALVE AND RELATED APPURTENANCES TO BE REMOVED AND CAPPED AT THE MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 29 EXISTING GRANITE WALL TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 30 EXISTING 12" STORM SEWER TO BE REMOVED TO FACILITATE NEW CONSTRUCTION. CONNECTION TO BE BULKHEAD AT MANHOLE PER DC/WATER STANDARDS AND SPECIFICATIONS TO EXTENT NECESSARY FOR PROPOSED MANHOLE AND LATERAL CONNECTION.
- 31 EXISTING TEMPORARY 6' CHAIN LINK FENCE TO BE REMOVED.
- 32 EXISTING BOLLARDS TO BE REMOVED.
- 33 EXISTING GENERATOR TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 34 EXISTING FUEL TANK BELOW GRADE TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 35 EXISTING A/C TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 36 EXISTING ELECTRIC TRANSFORMER TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 37 EXISTING WHEEL STOP TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 38 EXISTING TRENCH DRAIN AND RELATED APPURTENANCES TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
- 39 EXISTING GRATE INLET AND RELATED APPURTENANCES TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.

DEMOLITION PLAN

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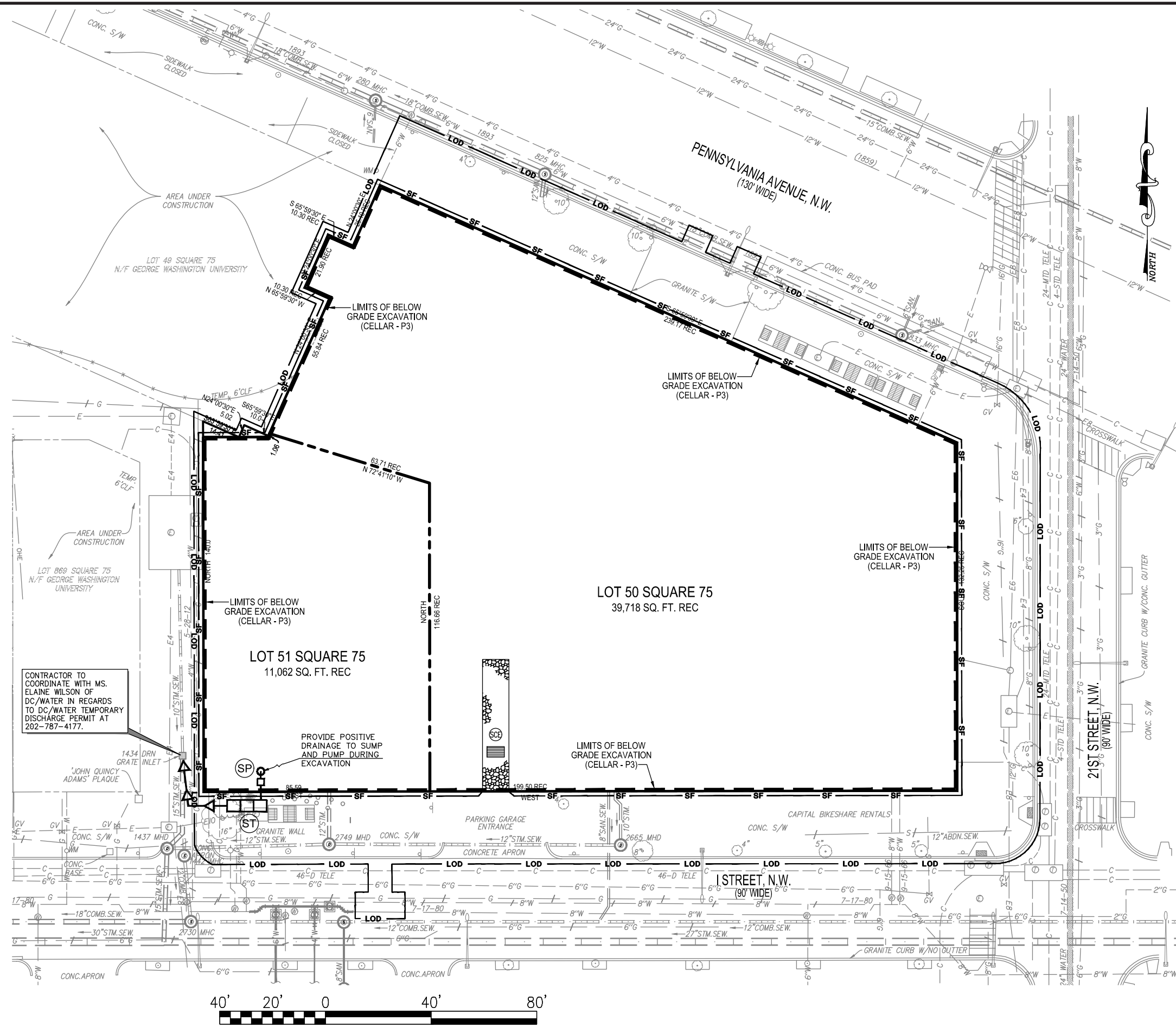
Description

EROSION AND SEDIMENT CONTROL PLAN

Scale

C-103

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LEGEND	PROPOSED
TEMP CONSTRUCTION ENTRANCE	
WASH RACK	
SILT FENCE	
APPROXIMATE LIMIT OF BELOW GRADE EXCAVATION	
APPROXIMATE LIMIT OF DISTURBANCE	
TREE PROTECTION	
SUMP PUMP	
SEDIMENT TANK	

CONTRACTOR TO COORDINATE WITH MS. ELAINE WILSON OF DC/WATER IN REGARDS TO DC/WATER TEMPORARY DISCHARGE PERMIT AT 202-787-4177.

PROVIDE POSITIVE DRAINAGE TO SUMP AND PUMP DURING EXCAVATION

EROSION AND SEDIMENT CONTROL PLAN

THIS SHEET IS TO BE USED FOR SEDIMENTATION AND EROSION CONTROL PURPOSES ONLY !!!

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EROSION AND SEDIMENT CONTROL NOTES

Scale

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STANDARD EROSION AND SEDIMENT CONTROL MEASURES AND SEQUENCE:

1. SEDIMENT TRAPS OR BASINS AND OTHER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED NO LATER THAN THE FIRST PHASE OF LAND GRADING.
2. SEDIMENT TRAPS OR BASINS AND OTHER EROSION AND SEDIMENT CONTROLS, SHALL BE INSTALLED AS SOON AS NEW SITE-RELATED RUNOFF IS DETECTED AND EMPLOYED AT ALL TIMES, TO PROTECT INLETS OR STORM SEWERS BELOW SILT-PRODUCING AREAS.
3. NO LATER THAN THE FIRST DAY OF CONSTRUCTION, INSTALL SITE ACCESS MEASURES TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS. EACH CONSTRUCTION ENTRANCE MUST BE STABILIZED AND INCLUDE EACH ADDITIONAL MEASURE, REQUIRED TO KEEP SEDIMENT FROM BEING CARRIED ONTO PUBLIC STREETS BY CONSTRUCTION VEHICLES AND WASHED INTO A STORM DRAIN OR WATERWAYS.
4. REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DOEE INSPECTOR.
5. PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DESTABILIZED AREAS.

EROSION AND SEDIMENT CONTROL NARRATIVE:
(PER PROJECT SPECIFIC)

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE;
 - B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
 - C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES;
 - B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
 - C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.
7. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
8. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
9. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

LAND DISTURBANCE ACTIVITY NOTE:

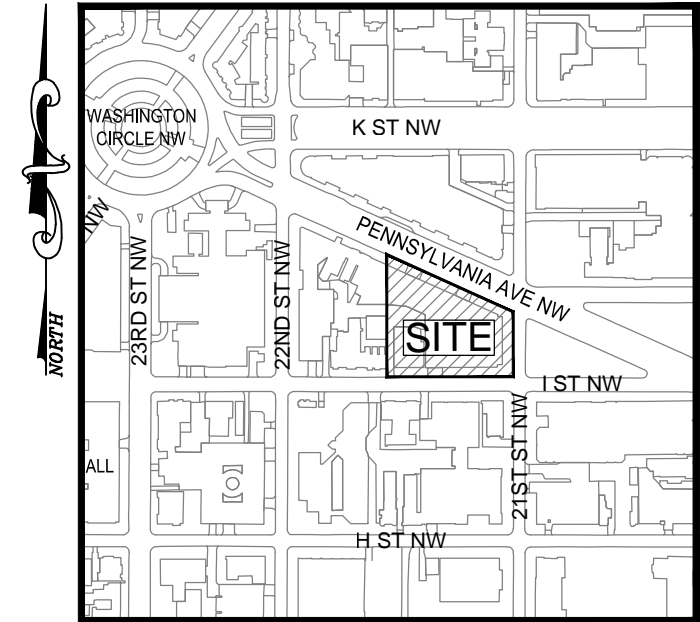
A PERSON RESPONSIBLE FOR LAND DISTURBANCE IS TO BE PRESENT OR AVAILABLE AT ALL TIMES WHILE SITE IS IN A PHASE INVOLVING LAND DISTURBING ACTIVITY. THE RESPONSIBLE PERSON IS RESPONSIBLE FOR INSPECTION OF THE SITE EROSION & SEDIMENT CONTROL MEASURES BIWEEKLY AND AFTER RAINFALL EVENTS. AVAILABILITY TO RESPOND TO POTENTIAL EROSION PROBLEMS AS THEY OCCUR AND AVAILABILITY TO SPEAK ONSITE WITH DOEE TO REMEDY POTENTIAL PROBLEMS. THE RESPONSIBLE PERSON IS TO HAVE AVAILABLE ONSITE PROOF OF PROFESSIONAL LICENSING OR OF SUCCESSFUL COMPLETION OF A DEPARTMENT APPROVED TRAINING PROGRAM IN COMPLIANCE OF RESPONSIBLE PERSON DESIGNATION.

CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STRAW BALE DIKES, INLET PROTECTION, SUMP PIT, PORTABLE SEDIMENT TANK, STABILIZED CONSTRUCTION ENTRANCE WITH WASH RACK, TREE PROTECTION, AND SILT FENCE AS INDICATED ON SHEET CIV0501. SEE SHEET CIV0501 FOR EROSION AND SEDIMENT 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 PROPOSED UTILITIES AS INDICATED ON SHEET CIV0105.
5. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
6. CONSTRUCT Bmps AS INDICATED ON SHEET CIV0701.
7. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

EROSION AND SEDIMENT CONTROL NOTE:

1. THE APPLICANT MUST NOTIFY THE DEPARTMENT OF ENERGY AND ENVIRONMENT BY PHONE (202-535-2977) AT LEAST 72 HOURS PRIOR TO THE START OF LAND DISTURBING ACTIVITY AND WITHIN (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF ENERGY AND ENVIRONMENT MUST BE NOTIFIED IMMEDIATELY.
2. REMOVAL OF ANY EROSION AND SEDIMENT CONTROL MEASURES REQUIRES APPROVAL FROM DOEE INSPECTOR.
3. 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.
4. PROVIDE SILT FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
5. CONTRACTOR TO PROVIDE ON SITE APPROVED STAMPED AND SIGNED SEDIMENTATION AND EROSION CONTROL DRAWINGS BY DEPARTMENT OF ENERGY AND ENVIRONMENT, WATERSHED PROTECTION DIVISION.
6. PROVIDE A CHAIN LINK FENCE AT PERIMETER OF SITE
7. NO LATER THAN THE FIRST DAY OF CONSTRUCTION, INSTALL SITE ACCESS MEASURES TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS. EACH CONSTRUCTION ENTRANCE MUST BE STABILIZED AND INCLUDE EACH ADDITIONAL MEASURES REQUIRED TO KEEP SEDIMENT FROM BEING CARRIED ONTO PUBLIC STREETS BY CONSTRUCTION VEHICLES AND WASHED INTO A STORM DRAIN OR WATERWAY.
8. REMOVE OFF-SITE ACCUMULATION OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF DOEE INSPECTOR.
9. PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DE-STABILIZATION AREAS.
10. STRAW BALE DIKES WILL BE REPLACED EVERY THREE (3) MONTHS UNTIL COMMENCEMENT OF CONSTRUCTION.



VICINITY MAP

SCALE: 1" = 500'

SQUARE: 75 LOT: 50 & 51

ADDRESS: 2100 PENNSYLVANIA AVE. NW.
& 2121 I-STREET, NW.
WASHINGTON, DC.

TOTAL SITE AREA:
TOTAL SITE AREA: 50,497 SF / 1.1593 AC
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (CELLAR)
TOTAL AREA OF EXCAVATION: 50,653 SF / 1.1628 AC
VOLUME OF CUT: (50,653) SQ.FT. (AREA) X (22.5) FEET (DEPTH)
27
VOLUME OF CUT: (42,211) cy +/-
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (P1 - P3)
TOTAL AREA OF EXCAVATION: 50,653 SF / 1.1628 AC
VOLUME OF CUT: (50,653) SQ.FT. (AREA) X (10) FEET (DEPTH)
27
VOLUME OF CUT: (18,760) cy +/-
TOTAL VOLUME OF CUT: (98,491) cy +/-
TOTAL VOLUME OF CUT /FILL FOR UTILITIES:
TOTAL AREA OF EXCAVATION: 459 SF / 0.0105 AC
VOLUME OF CUT: (459) SQ.FT. (AREA) X (7) FEET (DEPTH)
27
VOLUME OF CUT AND FILL: (119) cy +/-
TOTAL AREA OF DISTURBANCE:
TOTAL AREA OF DISTURBANCE: 70,917 SQUARE FEET OR 1.6280 AC
CONSTRUCTION DATES:
THE PROPOSED WORK DUE TO COMMENCE SPRING 2018 AND IS ANTICIPATED TO TAKE APPROXIMATELY 12 MONTHS.
EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

ENFORCEMENT OF SIGNAGE REQUIREMENT FOR PROJECTS REQUIRING EROSION AND SEDIMENT CONTROL PLANS:

ALL CONSTRUCTION PROJECTS REQUIRING SOIL EROSION AND SEDIMENT CONTROL (ESC) PLANS MUST POST A DISTRICT-APPROVED SIGN THAT NOTIFIES THE PUBLIC TO CONTACT DOEE IN THE EVENT OF EROSION OR OTHER POLLUTION FROM THE SITE. DOEE HAS INCREASED ITS ENFORCEMENT EFFORTS FOR THIS REQUIREMENT. A LIMITED NUMBER OF PRE-PRINTED SIGNS IS AVAILABLE AT THE DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS AND WILL BE ISSUED AT NO CHARGE WITH APPROVED SOIL EROSION AND SEDIMENT CONTROL PLANS ON A FIRST COME, FIRST SERVED BASIS. AN ELECTRONIC COPY OF THE DISTRICT APPROVED SIGN IS AVAILABLE AT [HTTP://DOEE.DC.GOV/ESC](http://doee.dc.gov/esc).

TREE PROTECTION AND REPLACEMENT NOTES:

A. DESCRIPTION:
 WORK UNDER THIS ITEM INCLUDES PROVIDING PROTECTION FOR EXISTING TREES WITHIN THE PROJECT LIMITS DURING CONSTRUCTION OPERATIONS. WORK SHALL INCLUDE PROTECTION BY FENCING OF ALL TREES WITHIN THE PROJECT BOUNDARIES AS INDICATED ON THE CONTRACT DRAWINGS. THE CONTRACTOR IS LIABLE FOR REPLACEMENT AND REPAIR OF TREES OR COMPENSATION FOR TREES DAMAGED OR KILLED THROUGH NEGLIGENCE OR FAILURE TO APPLY TREE PROTECTION DURING CONSTRUCTION OPERATIONS. FAILURE OF THE CONTRACTOR TO IMPLEMENT TREE CONSERVATION MEASURES OR TREE REPLACEMENT, AS DIRECTED BY THE ENGINEER, WILL RESULT IN COMPENSATION OR LIQUIDATED DAMAGES TO THE DISTRICT ACCORDING TO THE SCHEDULE OF PAYMENT CONTAINED HEREIN. ANY REPLACEMENT DETERMINED TO BE REQUIRED BY THE ENGINEER MUST BE COMPLETED WITHIN TWO (2) WEEKS OF NOTIFICATION, UNLESS OUTSIDE OF THE PLANTING SEASON, IN WHICH CASE REPLACEMENT MUST OCCUR WITHIN THE FIRST TWO (2) WEEKS OF THE PLANTING SEASON.

B. METHODS AND MATERIALS:
 PROTECTION FROM DAMAGE CAUSED BY THE CONTRACTOR'S EQUIPMENT OR CARELESSNESS SHALL CONSIST OF THE FOLLOWING METHODS AND MEASURES: ALL TREES TO BE PRESERVED SHALL BE PROTECTED AGAINST DAMAGE DURING CONSTRUCTION OPERATIONS BY FENCING. THE TREE PROTECTION FENCING SHALL BE PLACED BEFORE ANY EXCAVATION OR GRADING HAS COMMENCED. DETAILS OF THE MINIMUM ACCEPTABLE TREE PROTECTION ARE SHOWN IN THE CONTRACT DOCUMENTS. NO EQUIPMENT, TRAILERS OR MATERIALS MAY BE PLACED WITHIN THE DRIP LINE OF EXISTING TREES TO BE RETAINED WITHIN THE PROJECT LIMITS WITH THE EXCEPTION OF PAVED AREAS OR AREAS TO BE PAVED. ANY DAMAGE DONE TO EXISTING TREE CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR UNDER THE DIRECTION OF AN ARBORIST FROM THE DISTRICT'S URBAN FORESTRY ADMINISTRATION. IF ANY TREES NOT DESIGNATED TO BE REMOVED ARE SEVERELY INJURED OR KILLED BY THE CONTRACTOR'S OPERATIONS FOR ANY REASON, THEY SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT, OR BY PAYMENT IN LIQUIDATED DAMAGES ACCORDING TO THE FOLLOWING SCHEDULE:

- \$200 PER INCH OF DIAMETER
- THE DIAMETER OF THE TREE TRUNK SHALL BE MEASURED BREAST HIGH (4 TO 5 FEET) ABOVE THE GROUND. REPLACEMENT SHALL BE DONE ON A DBH INCH PER DBH INCH BASIS (1 DBH INCH OF REPLACEMENT TREES PER DBH INCH OF DAMAGED TREES). TREES REPLACED SHALL BE PLANTED IN ACCORDANCE WITH 608.02. THE ENGINEER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING WHETHER OR NOT A GIVEN INJURY IS SUFFICIENT TO WARRANT REPAIR, REPLACEMENT OR MONETARY COMPENSATION BY THE CONTRACTOR. MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS:
 - TREE PROTECTION FENCING SHALL CONSIST OF 6 FOOT TALL CHAIN LINK FENCE MATERIALS. FENCING SHALL PROTECT AN AREA NO SMALLER THAN 9 FOOT X 4 FOOT.

C. MEASURE AND PAYMENT:
 THE UNIT OF MEASURE WILL BE EACH, NO DIRECT MEASURE WILL BE TAKEN. PAYMENT FOR TREE PROTECTION AND REPLACEMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER TREE PROTECTION. NO PAYMENT WILL BE MADE FOR ALL LABOR, TOOLS, MATERIALS, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THE REQUIRED WORK. NO PAYMENT WILL BE MADE FOR REPAIR AND REPLACEMENT IN KIND FOR TREES DAMAGED OR KILLED DUE TO THE CONTRACTOR'S OPERATIONS. THIS WORK WILL BE PERFORMED AT THE SOLE EXPENSE OF THE CONTRACTOR.

TREE ROOT PROTECTION:

A. DESCRIPTION:
 THIS WORK INCLUDES PRECAUTIONS TO BE TAKEN WHILE PERFORMING UTILITY TRENCHING, ROADWAY WORK, SIDEWALK, AND CURB INSTALLATION. WORK ALSO INCLUDES FURNISHING AND PLACEMENT OF PREPARED PLANTING SOIL MIX AND FERTILIZER (FERTILIZER IS NOT NEEDED UNLESS AN ELEMENT IS DEFICIENT) BACKFILL AROUND EXPOSED AND DISTURBED ROOTS, AND THE DISPOSAL OF EXCESS MATERIALS, BRANCHES AND DEBRIS.

B. CONSTRUCTION METHODS:
 CONSTRUCTION OPERATIONS ADJACENT TO EXISTING TREES SHALL BE PERFORMED IN ACCORDANCE WITH 608.07(B) TO PREVENT TRUNK, CROWN, AND ROOT DAMAGE. TREE ROOTS SHALL NOT BE CUT UNLESS SPECIFICALLY AUTHORIZED BY THE DEPARTMENT OF TRANSPORTATION'S URBAN FORESTRY ADMINISTRATION. IF AUTHORIZED, PRUNING SHALL BE PERFORMED UNDER THEIR SUPERVISION IN ACCORDANCE WITH 107.12 AND 608.04(B), OR BY A CERTIFIED ARBORIST MEETING THEIR APPROVAL. WHEN AUTHORIZED BY THE ENGINEER, THE CONTRACTOR MAY CUT MINOR ROOTS (LESS THAN 2 INCHES IN DIAMETER) WITH HIS OWN FORCES. WHEN TRENCHING OR WHEN OLD CURB, GUTTER, OR SIDEWALK IS REMOVED, DAMP BURLAP SHALL BE PLACED OVER EXPOSED ROOTS AND KEPT DAMP AT ALL TIMES UNTIL THE NEW WORK IS PLACED. TRENCH EXCAVATION SHALL FOLLOW 207.03 TO AVOID ROOT DAMAGE TO ROOTS LARGER THAN 2 INCHES IN DIAMETER. EXPOSED OR CUT ROOTS SHALL BE BACKFILLED WITH PREPARED FERTILIZER-ENRICHED PLANTING SOIL MIX TO ENCOURAGE ROOT GROWTH. (FERTILIZER IS NOT NEEDED UNLESS AN ELEMENT IS SHOWN TO BE DEFICIENT.)

IN ALL OPERATIONS INVOLVING UTILITY TRENCHING, THE WORK SHALL BE PERFORMED AS PER 207.03. WHENEVER POSSIBLE, ROOT CUTTING SHALL BE AVOIDED; NO PART OF THE ROOT BALL SHALL BE TRENCHED. UTILITY TRENCHING SHALL NOT BE ALLOWED IF TREE ROOTS ARE WITHIN THE TRENCH AREA DETERMINED AS THE DISTRICT'S TREE. THESE EXCAVATIONS SHALL BE AUGURED OR TUNNELED, AS NECESSARY, TO PREVENT ROOT CUTTING. IN CURB INSTALLATIONS, IT IS RECOMMENDED THAT CURBING BE BRIDGED ACROSS THE LENGTH OF THE TREE SPACE, WITHOUT A DRY MIX BACKING BLOCK, IN ORDER TO AVOID ANY TRENCHING EXCAVATION IN THE VICINITY OF THE ROOTS. THE LENGTH OF CURBING PLACED ADJACENT TO THE LENGTH OF THE TREE SPACE SHALL THEN BE DOWELED OR PINNED TO THE STANDARD CURB CONSTRUCTION OUTSIDE THE TREE SPACE.

TREES LOCATED ADJACENT TO CONSTRUCTION WORK SHALL BE WATERED AT TEN (10) DAY INTERVALS THROUGHOUT THE GROWING SEASON. THE CONTRACTOR SHALL SUPPLY WATERING BAGS OF SAME TYPE THAT ARE SOLD IN THE INDUSTRY AND FILL THEM ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS OR AT A MINIMUM KEEPING THE BAG FULL DURING THE GROWING SEASON. NO EQUIPMENT, TRAILERS, OR MATERIAL SHALL BE PLACED WITHIN 20 FEET OR WITHIN THE DRIP LINES OF ANY TREE TO BE SAVED, WHICHEVER IS GREATER. ANY DAMAGE DONE TO EXISTING TREE TRUNKS, CROWNS, OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR, AT HIS EXPENSE, UNDER THE DIRECTION OF AN ARBORIST FROM THE DEPARTMENT OF TRANSPORTATION'S URBAN FORESTRY ADMINISTRATION.

PROTECT ROOT SYSTEMS FROM DAMAGE CAUSED BY RUNOFF OR SPILLAGE OF NOXIOUS MATERIALS WHILE MINING, PLACING, OR STORING CONSTRUCTION MATERIALS. PROTECT ROOT SYSTEMS FROM PONDING, ERODING, OR EXCESSIVE WETTING CAUSED BY DOWATERING OPERATIONS. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL INSIDE TREE PROTECTION ZONES. DO NOT PERMIT VEHICLES OR FOOT TRAFFIC WITHIN TREE PROTECTION ZONES. PREVENT SOIL COMPACTION OVER ROOT SYSTEMS.

MAINTAIN TREE PROTECTION ZONES FREE OF WEEDS AND TRASH. INSTALL MYCORRHIZAL FUNGAL INOCULATION INSIDE THE TREE PROTECTION ZONE AS REQUIRED BY THE MANUFACTURER.

WHERE RE-GRADING IS REQUIRED, THE FOLLOWING SHALL APPLY:

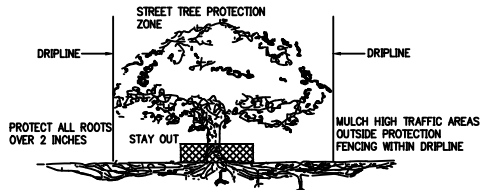
MINOR FILL: WHERE EXISTING GRADE IS 6 INCHES OR LESS BELOW ELEVATION OF FINISH GRADE, FILL WITH MATERIAL AS SHOWN IN THE CONTRACT DRAWINGS. PLACE MATERIAL IN A SINGLE UNCOMPACTED LAYER AND HAND GRADE TO REQUIRED FINISH ELEVATIONS.

MODERATE FILL: WHERE EXISTING GRADE IS MORE THAN 6 INCHES (150 MM) BUT LESS THAN 12 INCHES (300 MM) BELOW ELEVATION OF FINISH GRADE, PLACE DRAINAGE FILL, FILTER FABRIC, AND TOPSOIL ON EXISTING GRADE AS FOLLOWS:

CAREFULLY PLACE DRAINAGE FILL AGAINST TREE TRUNKS APPROXIMATELY 2 INCHES (50 MM) ABOVE ELEVATION OF FINISH GRADE AND EXTEND NOT LESS THAN 18 INCHES (450 MM) FROM TREE TRUNK ON ALL SIDES. FOR BALANCE OF AREA WITHIN DRIP LINE PERIMETER, PLACE DRAINAGE FILL UP TO 6 INCHES (150 MM) BELOW ELEVATION OF GRADE.

PLACE FILTER FABRIC WITH EDGES OVERLAPPING 6 INCHES (150 MM) MINIMUM. PLACE FILL LAYER OF MATERIAL TO FINISH GRADE. DO NOT COMPACT DRAINAGE FILL.

C. MEASURE AND PAYMENT:
 NO MEASURE WILL BE TAKEN FOR THIS WORK. NO DIRECT PAYMENT WILL BE MADE. THIS WORK IS CONSIDERED INCIDENTAL TO THE WORK BEING PERFORMED. THE COST OF WHICH SHALL BE CONSIDERED WHEN PREPARING BIDS FOR WORK IN THESE AREAS.



STREET TREE PROTECTION

1. ALL EXISTING STREET TREES, TO REMAIN WITHIN A WORK ZONE UNTIL A PROJECT IS COMPLETED, REQUIRE THE FOLLOWING AS TREE PROTECTION. IF FOR ANY REASON THE SCOPE OF THE PROJECT REQUIRES WORK TO BE PERFORMED WITHIN THE FENCED PROTECTION ZONE, THE PERMIT HOLDER MUST CONTACT THE DISTRICT DEPARTMENT OF TRANSPORTATION'S URBAN FORESTRY ADMINISTRATION AT 202-671-9133 BEFORE ENTERING.
 - A. SIX (6) FOOT TALL CHAIN LINK FENCING ON ALL SIDES.
 - B. INSTALL FENCING PRIOR TO AND MAINTAIN THROUGHOUT CONSTRUCTION, REMOVING ONLY AT THE END OF THE PROJECT.
 - C. FENCING SHALL PROTECT AN AREA NO SMALLER THAN 4 FEET BY 9 FEET.
 - D. FENCING SHALL HAVE VERTICAL AND HORIZONTAL SUPPORT RAILINGS TO DECREASE FLEXIBILITY AND PREVENT SAGGING.
 - E. FENCE POSTS SHALL BE ANCHORED IN THE GROUND TO PREVENT MOVEMENT AND PROVIDE A AUTHORIZED ENTRY ONLY. CONTACT THE WARD ARBORIST AT DDOT URBAN SECURE BARRIER.
2. NO INSTALLATION OF SILT FENCE/SUPER SILT FENCE, TRENCHING, ALTERATION OR DISTURBANCE TO EXISTING GRADE, STAGING/ STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY MATERIALS SUCH AS CONCRETE, GAS, OIL, PAINT, AND BLUACKTOP IS ALLOWED WITHIN THE FENCED TREE PROTECTION ZONE.
3. EXCAVATIONS WITHIN THE DRIP LINE SHALL PROCEED WITH CARE BY USE OF HAND TOOLS. THE DRIPLINE IS DEFINED AS THE GROUND AREA UNDER THE CANOPY OF THE TREE.
4. NO ROOTS LARGER THAN TWO (2) INCHES IN DIAMETER ARE TO BE CUT WITHOUT UFA PERMISSION.
5. EXPOSED ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP OR OTHER APPROVED MATERIAL AND KEPT MOIST AT ALL TIMES.
6. TREES THAT ARE PROTECTED ARE TO BE WATERED EVERY 10 DAYS FROM APRIL THROUGH SEPTEMBER.
7. SECTION 608.07 TREE PROTECTION AND REPLACEMENT OF THE 2013 DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES WILL APPLY SHOULD ANY DAMAGE OCCUR TO THE EXISTING STREET TREES(S).
8. ANY FINES RELATED TO DAMAGE TO A STREET TREE ON A JOB SITE SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER. DDOT/URBAN FORESTRY ADMINISTRATION MARCH 2014

DOEE SOIL EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES:

1. FOLLOWING INITIAL LAND DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR INTERIM STABILIZATION MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FOR THE SURFACES OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND SLOPES GREATER THAN THREE (3) HORIZONTAL TO ONE (1) VERTICAL (3:1), AND FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THESE REQUIREMENTS DO NOT APPLY TO AREAS SHOWN ON THE PLAN THAT ARE USED FOR MATERIAL STORAGE OTHER THAN STOCKPILING, OR FOR THOSE AREAS ON THE PLAN WHERE ACTUAL CONSTRUCTION ACTIVITIES ARE BEING PERFORMED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY SO THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (ESC). [21 DCMR § 542.9 (c)]
2. ESC MEASURES SHALL BE IN PLACE BEFORE AND DURING LAND DISTURBANCE. [21 DCMR § 543.6]
3. CONTACT DOEE INSPECTION (202) 535-2977 TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST THREE (3) BUSINESS DAYS BEFORE THE COMMENCEMENT OF A LAND-DISTURBING ACTIVITY. [21 DCMR § 503.7 (A)]
4. A COPY OF THE APPROVED PLAN SET WILL BE MAINTAINED AT THE CONSTRUCTION SITE FROM THE DATE THAT CONSTRUCTION ACTIVITIES BEGIN TO THE DATE OF FINAL STABILIZATION AND WILL BE AVAILABLE FOR DOEE INSPECTORS. [21 DCMR § 542.15]
5. ESC MEASURES SHALL BE IN PLACE TO STABILIZE AN EXPOSED AREA AS SOON AS PRACTICABLE AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED BUT NO LATER THAN FOURTEEN (14) DAYS FOLLOWING CESSATION, EXCEPT THAT TEMPORARY OR PERMANENT STABILIZATION SHALL BE IN PLACE AT THE END OF EACH DAY OF UNDERGROUND UTILITY WORK THAT IS NOT CONTAINED WITHIN A LARGER DEVELOPMENT SITE. [21 DCMR § 543.7]
6. STOCKPILED MATERIAL BEING ACTIVELY USED DURING A PHASE OF CONSTRUCTION SHALL BE PROTECTED AGAINST EROSION BY ESTABLISHING AND MAINTAINING PERIMETER CONTROLS AROUND THE STOCKPILE. [21 DCMR § 543.16 (A)]
7. STOCKPILED MATERIAL NOT BEING ACTIVELY USED OR ADDED TO SHALL BE STABILIZED WITH MULCH, TEMPORARY VEGETATION, HYDRO-SEED OR PLASTIC WITHIN FIFTEEN (15) CALENDAR DAYS AFTER ITS LAST USE OR ADDITION. [21 DCMR § 543.16 (B)]
8. PROTECT BEST MANAGEMENT PRACTICES FROM SEDIMENTATION AND OTHER DAMAGE DURING CONSTRUCTION FOR PROPER POST CONSTRUCTION OPERATION. [21 DCMR § 543.5]
9. REQUEST A DOEE INSPECTOR'S APPROVAL AFTER THE INSTALLATION OF PERIMETER AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. [21 DCMR § 542.12 (A)]
10. REQUEST A DOEE INSPECTOR'S APPROVAL AFTER FINAL STABILIZATION OF THE SITE AND BEFORE THE REMOVAL OF EROSION AND SEDIMENT CONTROLS. [21 DCMR § 542.12 (B)]
11. FINAL STABILIZATION MEANS THAT ALL LAND-DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND EITHER OF THE FOLLOWING TWO CRITERIA HAVE BEEN MET: (1) A UNIFORM (FOR EXAMPLE, EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF SEVENTY PERCENT (70%) OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR (2) EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED (SUCH AS THE USE OF RIPRAP, GABIONS, OR GEO-TEXTILES). [21 DCMR § 542.12 (B.1, B.2)]
12. FOLLOW THE REQUIREMENTS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN A LEGIBLE COPY OF THIS SWPPP ON SITE. [21 DCMR § 543.10 (B)]
13. POST A SIGN ON SITE THAT NOTIFIES THE PUBLIC TO CONTACT DOEE IN THE EVENT OF EROSION OR OTHER POLLUTION. THIS SIGN MUST BE IN PLAIN VIEW OF AND READABLE BY THE PUBLIC AT A DISTANCE OF TWELVE FEET (12 FT). THE SIGN WILL BE PLACED AT EACH ENTRANCE TO THE SITE OR AS DIRECTED BY THE DOEE INSPECTOR. THE SIGN WILL PROVIDE DOEE'S TELEPHONE NUMBER (202-535-2977) AND EMAIL ADDRESS. [21 DCMR § 543.22]
14. IF A SITE DISTURBS 5,000 SQUARE FEET OF LAND OR GREATER, THE ESC PLAN MUST CONTAIN THE FOLLOWING STATEMENT:
 A RESPONSIBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE THE SITE IS IN A LAND-DISTURBING PHASE. THE RESPONSIBLE PERSON IS CHARGED WITH BEING AVAILABLE TO (A) INSPECT THE SITE AND ITS ESC MEASURES AT LEAST ONCE BIWEEKLY AND AFTER A RAINFALL EVENT TO IDENTIFY AND REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM, (B) RESPOND TO EACH POTENTIAL OR ACTUAL EROSION PROBLEM IDENTIFIED BY CONSTRUCTION PERSONNEL, AND (C) SPEAK ON SITE WITH DOEE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM. A RESPONSIBLE PERSON SHALL BE (A) LICENSED IN THE DISTRICT OF COLUMBIA AS A CIVIL OR GEO-TECHNICAL ENGINEER, A LAND SURVEYOR, OR ARCHITECT; OR (B) CERTIFIED THROUGH A TRAINING PROGRAM THAT DOEE APPROVES, INCLUDING A COURSE ON EROSION CONTROL PROVIDED BY ANOTHER JURISDICTION OR PROFESSIONAL ASSOCIATION. DURING CONSTRUCTION, THE RESPONSIBLE PERSON SHALL KEEP ON SITE PROOF OF PROFESSIONAL LICENSING OR OF SUCCESSFUL COMPLETION OF A DOEE-APPROVED TRAINING PROGRAM. [21 DCMR § 547]

VEGETATIVE STABILIZATION:

- PERMANENT AND TEMPORARY SEEDING, SOODING AND MULCHING
- I. SITE PREPARATION
 PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, GRASSED HIGHWAYS, SEDIMENT BASINS, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND (B) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - II. SEEDING PREPARATION AND SEEDING APPLICATION
 THE TOP LAYER OF SOIL SHALL BE LOOSENED, LIMED AND FERTILIZED BY RAKING, DISCHING OR HARROWING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE SHALL BE LOOSE AND FRABLE TO A DEPTH OF AT LEAST 3 INCHES. SLOPES STEEPER THAN 3 TO 1 SHALL HAVE THE TOP 1-3 INCHES OF SOIL LOOSE AND FRABLE BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE SHALL BE LOOSE AND FRABLE TO A DEPTH OF AT LEAST 3 INCHES. SLOPES STEEPER THAN 3 TO 1 SHALL HAVE THE TOP 1-3 INCHES OF SOIL LOOSE AND FRABLE BEFORE SEEDING.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL CULPACKER, SEEDER OR HYDROSEEDER ON A FIRM MOIST SEEDBED.
 - III. SOIL AMENDMENTS
 LIME AND FERTILIZE ACCORDING TO SOIL TESTS. IN LIEU OF SOIL TEST APPLY THE FOLLOWING:
 DOLOMITIC LIMESTONE 2 TONS PER ACRE OR 92 LBS/1,000 (PERMANENT AND SOODING SOIL)
 FERTILIZER 1 TON PER ACRE OR 48 LB/1,000 (TEMPORARY) OR 10-10-10 OR EQUIVALENT AT 1,000 LBS PER ACRE OR 23 LBS PER 1,000 SQ. FT. (PERMANENT AND SOODING)
 - IV. SEDIMENT CONTROL PRACTICES, SEEDING
 SEED: "KENTUCKY 31" TALL FESCUE 60 LBS/ACRE OR 1.38 LBS/1,000 SQ. FT AND ITALIAN (ANNUAL) RYEGRASS 40 LBS/ACRE OR .91 LBS/1,000 SQ. FT.
 DATES: 1/2 - 10/31 5/1 - 8/14 WITH IRRIGATION.
 - V. TEMPORARY SEEDING: PER GROWING SEASON
 SEED: ITALIAN OR PERENNIAL RYEGRASS 40 LBS/ACRE OR .92 LBS/1,000 SQ. FT.
 DATES: 2/1 - 4/30 AND 8/15 - 11/30
 SEED: MILLET 40 LBS/ACRE OR 0.92 LBS/1,000 SQ. FT.
 DATES: 5/1 - 8/14
 - VI. PERMANENT SEEDING
 A. RESIDENTIAL AND HIGH MAINTENANCE AREAS
 1. KENTUCKY BLUEGRASS, "PLUSH", "BIRKA", "PARADE", "VANTAGE", "COLUMBIA", "MERION", "ADELPHI", "SOUTH PAKOTIA", "VENUE", ANY THREE VARIETIES AT 30 LBS. TO MAKE 90 LBS/ACRE OR 2 LBS/1,000 SQ.FT. AND RED FESCUE - "PENNLAWN" OR JAMESTOWN 10 LBS/1000 SQ.FT.
 DATES: 2/1 - 4/30 AND 8/15 - 10/31.
 2. "KENTUCKY 31" TALL FESCUE 220-260 LBS/ACRE OR 5-6 LBS/1,000 SQ. FT.
 DATES: 2/1 - 10/31 5/1 - 8/14 IRRIGATION REQUIRED.
 - B. LOW MAINTENANCE AND MINING AREAS
 "KENTUCKY 31" TALL FESCUE 40 LBS/ACRE OR 0.92 LBS/1,000 SQ. FT. AND "INTERSTATE" SERICIA LESPEDEZA 40 LBS/ACRE OR 0.92 LBS/1,000 SQ. FT. AND "WINTERSTATE" SERICIA LESPEDEZA 40 LBS/ACRE OR 0.92 LBS/1,000 SQ. FT.
 DATES: 2/1 - 4/30 AND 8/15 - 10/31
 - C. GENERAL AND LARGE ACREAGE
 "KENTUCKY 31" TALL FESCUE 60 LBS/ACRE OR 1.38 LBS/1,000 SQ.FT.(0.5 kg/100 sqm)
 - VII. MULCHING
 ALL SEEDINGS REQUIRE MULCHING. USE MULCH ONLY DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE.
 MULCH SHALL BE UNROTTED, UNCHOPPED SMALL GRAM STRAW APPLIED AT A RATE OF 1 TO 2 TONS/ACRE OR 70-90 LBS/1,000 SQ.FT. (2 BALES) MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEED BEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS SEEDS. SPREAD MULCH UNIFORMLY MECHANICALLY OR BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TWIN, PEG AND TWIN OR LIQUID MULCH BINDERS.
 LIQUID MULCH BINDER SHALL BE RAPID CURING OUTBACK ASPHALT APPLIED AT A RATE OF 200 GAL/ACRE OR 5 GAL. PER 1,000 SQ. FT. SLOPES 8 FEET OR MORE HIGH USE 348 GAL./ACRE OR 8 GAL./1,000 SQ. FT.
 - VIII. SOODING
 CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR WITH STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTING AND NOT OVERLAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED WITHIN EIGHT HOURS OF INSTALLATION. DAILY WATERING TO MAINTAIN A 4 INCH DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN GROUND.
 - IX. MAINTENANCE
 A. IRRIGATION - WHEN SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF PROTECTIVE VEGETATION. B. REPAIRS - IF STAND IS INADEQUATE FOR EROSION CONTROL, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND IS OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL RATES AND PROCEDURES.
 NOTE: USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE 1987 DISTRICT OF COLUMBIA DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL VEGETATIVE PRACTICES.

STANDARD EROSION AND SEDIMENT CONTROL MEASURES AND SEQUENCE:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING.
2. PROVIDE TEMPORARY STONE CONSTRUCTION ENTRANCE WHERE SHOWN. PROVIDE WATER SOURCE AND HOSE TO CLEAN ALL EQUIPMENT LEAVING SITE.
3. INSTALL SILT FENCE AS SHOWN.
4. NO DISTURBED AREA WILL BE DENuded FOR MORE THAN 7 CALENDAR DAYS. INSTANTLY REPAIR ANY DISTURBED AREAS. MAINTAIN NECESSARY VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ADEQUATE EROSION AND SEDIMENT CONTROL.
5. ALL CONSTRUCTION TO BE INSPECTED DAILY BY THE CONTRACTOR, AND ANY DAMAGED SILTATION OR EROSION CONTROL DEVICES OR MEASURES WILL BE REPAIRED AT THE CLOSE OF THE DAY.
6. SILT FENCES TO BE MAINTAINED IN WORKING CONDITION. TO BE MAINTAINED IN WORKING CONDITION.
7. STABILIZED CONSTRUCTION ENTRANCES TO BE PERIODICALLY SUPPLEMENTED WITH ADDITIONAL STONE AS NEEDED.
8. CONTROLS CAN BE REMOVED AFTER THEIR CONTRIBUTING BASINS HAVE BEEN PERMANENTLY STABILIZED, AND APPROVAL OF INSPECTOR IS OBTAINED.

POLLUTION PREVENTION THROUGH GOOD HOUSEKEEPING:

POLLUTION PREVENTION:
 THIS APPENDIX IS MEANT TO COMPLEMENT APPENDIX P STORMWATER HOTSPOTS AND EROSION AND SEDIMENT CONTROL PLAN (ESCP), BUT NOT RETERATE EPA'S CONSTRUCTION GENERAL PERMIT REQUIREMENTS. THESE NOTES SHALL APPEAR AS STAMPED NOTES ON STORMWATER MANAGEMENT PLANS (SWMPs) WHERE LAND DISTURBANCE IS GREATER THAN 5,000 SQUARE FEET AND LESS THAN ONE ACRE. THESE NOTES SHALL CONSTITUTE A MINIMUM STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND PROVIDE GUIDANCE ON GOOD HOUSEKEEPING PRACTICES TO PREVENT POTENTIAL CONTRIBUTION-SITE POLLUTANT FROM INTERACTING WITH STORMWATER.

STORMWATER MANAGEMENT PLAN (SWMP) GOOD HOUSEKEEPING STAMP NOTES:
FUELS AND OILS
 ON-SITE REFUELING WILL BE CONDUCTED IN A DEDICATED LOCATION AWAY FROM ACCESS TO SURFACE WATERS. INSTALL CONTAINMENT BERMS AND, OR SECONDARY CONTAINMENTS AROUND REFUELING AREAS AND STORAGE TANKS. SPILLS WILL BE CLEANED UP IMMEDIATELY AND CONTAMINATED SOILS DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND DISTRICT OF COLUMBIA REGULATIONS. PETROLEUM PRODUCTS WILL BE STORED IN CLEARLY LABELED TIGHTLY SEALED CONTAINERS. ALL OIL AND FUEL LEAKS AND SPILLS WILL BE IMMEDIATELY REPAIR REGULAR PREVENTIVE MAINTENANCE ACTIVITIES. ANY ASPHALT SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SPILL KITS BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTS.

SOLID WASTE
 NO SOLID MATERIALS SHALL BE DISCHARGED TO SURFACE WATER. SOLID MATERIALS INCLUDING BUILDING MATERIALS, GARBAGE AND PAINT DEBRIS SHALL BE CLEANED UP DAILY AND DEPOSITED INTO DUMPSTERS, WHICH WILL BE PERIODICALLY REMOVED AND DEPOSITED INTO A LANDFILL.

ABRASIVE BLASTING
 WATER BLASTING, SANDBLASTING, AND OTHER FORMS OF ABRASIVE BLASTING ON PAVED SURFACES BUILT PRIOR TO 1978 MAY ONLY BE PERFORMED IF AN EFFECTIVE CONTAINMENT SYSTEM PREVENTS DISPERSAL OF PAINT DEBRIS.

FERTILIZER
 FERTILIZERS WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER, WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER, AND STORED IN A COVERED SHED. PARTIALLY USED BAGS WILL BE TRANSFERRED TO A SEALABLE BIN TO AVOID SPILLS.

PAINT AND OTHER CHEMICALS
 ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWERS, BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SPRAY GUNS WILL BE CLEANED ON A REMOVAL TARP. CHEMICALS USED ON SITE ARE KEPT IN SMALL QUANTITIES AND IN CLOSED CONTAINERS UNDERCOVER AND KEPT OUT OF DIRECT CONTACT WITH STORMWATER. AS WITH FUELS AND OILS, ANY INADVERTENT SPILLS WILL BE CLEANED UP IMMEDIATELY AND DISPOSED OF ACCORDING FEDERAL AND DISTRICT OF COLUMBIA REGULATIONS.

CONCRETE
 CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE DISPOSAL AREA. FORM RELEASE OIL FOR DECORATIVE STONE WORK WILL BE APPLIED OVER PALLET COVERED WITH AN ABSORBENT MATERIAL TO COLLECT EXCESS FLUID. THE ABSORBENT MATERIAL WILL BE REPLACED AND DISPOSED OF PROPERLY WHEN SATURATED.

WATER TESTING
 WHEN TESTING AND, OR CLEANING WATER SUPPLY LINES, THE DISCHARGE FROM THE TESTED PIPE WILL BE COLLECTED AND CONVEYED TO A COMPLETED STORMWATER CONVEYANCE SYSTEM FOR ULTIMATE DISCHARGE INTO A STORMWATER BEST MANAGEMENT PRACTICE (BMP).

SANITARY WASTE
 PORTABLE LAVATORIES LOCATED ON SITE WILL BE SERVICES ON A REGULAR BASIS BY A CONTRACTOR. PORTABLE LAVATORIES WILL BE LOCATED IN AN UPLAND AREA AWAY FROM DIRECT CONTACT WITH SURFACE WATERS. ANY SPILLS OCCURRING DURING SERVICES WILL BE CLEANED IMMEDIATELY AND CONTAMINATED SOILS DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND DISTRICT OF COLUMBIA REGULATIONS.

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Date

04/12/2017

Project Name

2100 PENNSYLVANIA AVENUE NW

Project Number

A1613

Description

EROSION AND SEDIMENT CONTROL NOTES

Scale

C-103B

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EROSION AND SEDIMENT CONTROL NOTES

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Washington, DC



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322 Eighth Avenue, 11th Floor
New York, New York 10001
T 212 417 9496
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Seal/Signature

Date

04/12/2017

Project Name

2100
PENNSYLVANIA
AVENUE NW

Project Number

A1613

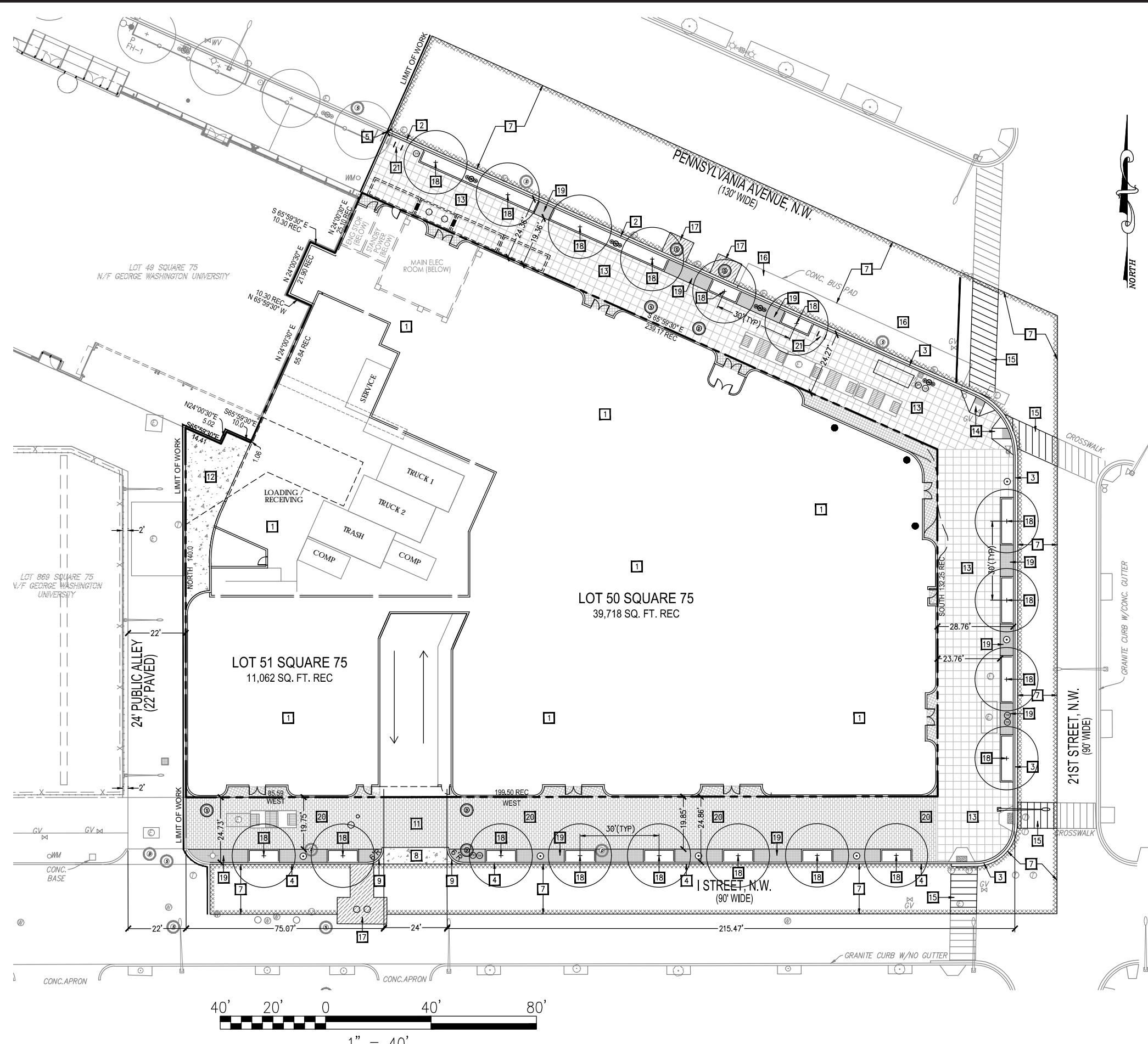
Description

SITE PLAN

Scale

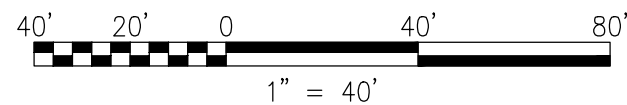
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SITE KEYNOTES:

- 1 NEW BUILDING. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
- 2 NEW GRANITE CURB AND BRICK GUTTER PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 3 NEW GRANITE CURB AND CONCRETE GUTTER PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 4 NEW GRANITE CURB PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 5 LIMIT OF GRANITE CURB AND BRICK GUTTER.
- 6 LIMIT OF NEW GRANITE CURB AND CONCRETE GUTTER.
- 7 NEW ASPHALT PAVEMENT SURFACE COURSE FROM FACE OF CURB TO THE CENTERLINE OF ROAD PER DDOT STANDARDS AND SPECIFICATIONS.
- 8 NEW CONCRETE APRON PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 9 NEW CONCRETE DRIVEWAY ENTRANCE WITH 6'-0" RADIUS PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 10 NEW CONCRETE DRIVEWAY ENTRANCE WITH 10'-0" RADIUS PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 11 NEW SCORED CONCRETE PAVEMENT PER DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 12 NEW CONCRETE ALLEY PAVEMENT. SEE SHEET CI-502-00 FOR DETAILS.
- 13 NEW 3'x3' SCORED CONCRETE SIDEWALK PER DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 14 NEW HANDICAP RAMP PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CI-502-00 FOR DETAILS.
- 15 NEW CROSSWALK STRIPING PER DDOT STANDARDS AND SPECIFICATIONS.
- 16 EXISTING CONCRETE BUS PAD TO REMAIN AND BE PROTECTED DURING CONSTRUCTION PROCESS.
- 17 NEW ASPHALT PAVEMENT AT FULL DEPTH PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET C0502 FOR DETAILS.
- 18 NEW STREET TREE PER DC/DDOT UFA STANDARDS AND SPECIFICATIONS.
- 19 NEW 4"x4" COBBLESTONE PAVER. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.
- 20 NEW BRICK SIDEWALK PER GWJ STANDARDS AND SPECIFICATIONS. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.
- 21 NEW BIKE RACK. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.



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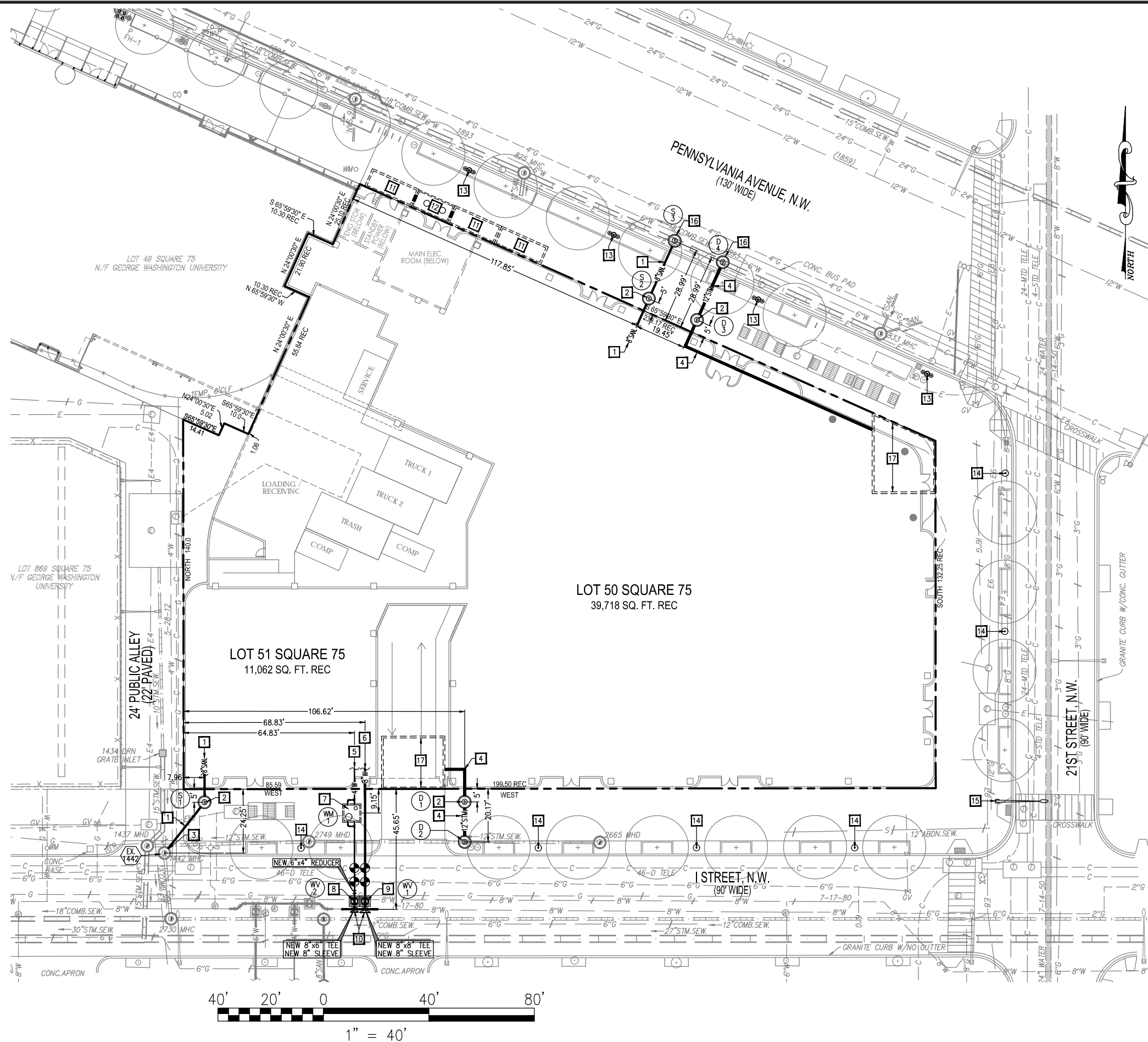
Description

UTILITY PLAN

Scale

C-105

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UTILITY KEYNOTES:

- 1 NEW 8" PVC SCH-40 SANITARY SEWER LATERAL.
- 2 NEW PRECAST CONCRETE MANHOLE FOR NEW 10" THRU 21" DIAMETER SEWER (48" DIAMETER PRECAST BASE) PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL S-20.01.
- 3 NEW CONNECTION TO EXISTING MANHOLE PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 4 NEW 12" PVC SCH-40 STORM SEWER LATERAL SERVICE.
- 5 NEW 4" DIP CLASS 52 DOMESTIC WATER SERVICE LATERAL PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 6 NEW 8" DIP CLASS 52 FIRE SERVICE LATERAL PER DC/WATER STANDARDS AND SPECIFICATIONS. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1048.
- 7 NEW 72"x72"x72" CAST-IN-PLACE WATER METER VAULT PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL DG-23.01.
- 8 NEW 6" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL W-20.01.
- 9 NEW 6" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL W-20.01.
- 10 NEW CONCRETE THRUST BLOCK PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL W-40.01.
- 11 NEW 6"x18" FULLY COVERED PEPCO TRANSFORMER VAULT. REFER TO DRY UTILITY CONSULTANT FOR DETAILS.
- 12 NEW 6"x14" SERVICE BUSHOLE. REFER TO DRY UTILITY CONSULTANT FOR DETAILS.
- 13 NEW TWIN-20 GLOBE STREETLIGHT PER DC/DDOT STREETLIGHT STANDARDS AND SPECIFICATIONS. REFER TO SHEET CIV0503 FOR DETAILS.
- 14 NEW NO.16 SINGLE GLOBE STREETLIGHT PER DC/DDOT STREETLIGHT STANDARDS AND SPECIFICATIONS. REFER TO SHEET CIV0503 FOR DETAILS.
- 15 NEW PENDANT POLE WITH TEAR DROP FIXTURE PER DC/DDOT STREETLIGHT STANDARDS AND SPECIFICATIONS. REFER TO SHEET CIV0503 FOR DETAILS.
- 16 NEW PRECAST CONCRETE MANHOLE OVER EXISTING 10" THRU 21" DIAMETER SEWER WITH CAST-IN-PLACE CONCRETE BASE PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL S-20.01.
- 17 NEW CAST-IN-PLACE CISTERN STRUCTURE.

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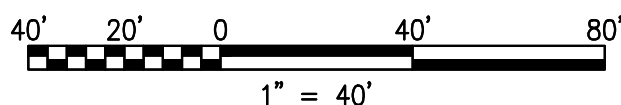
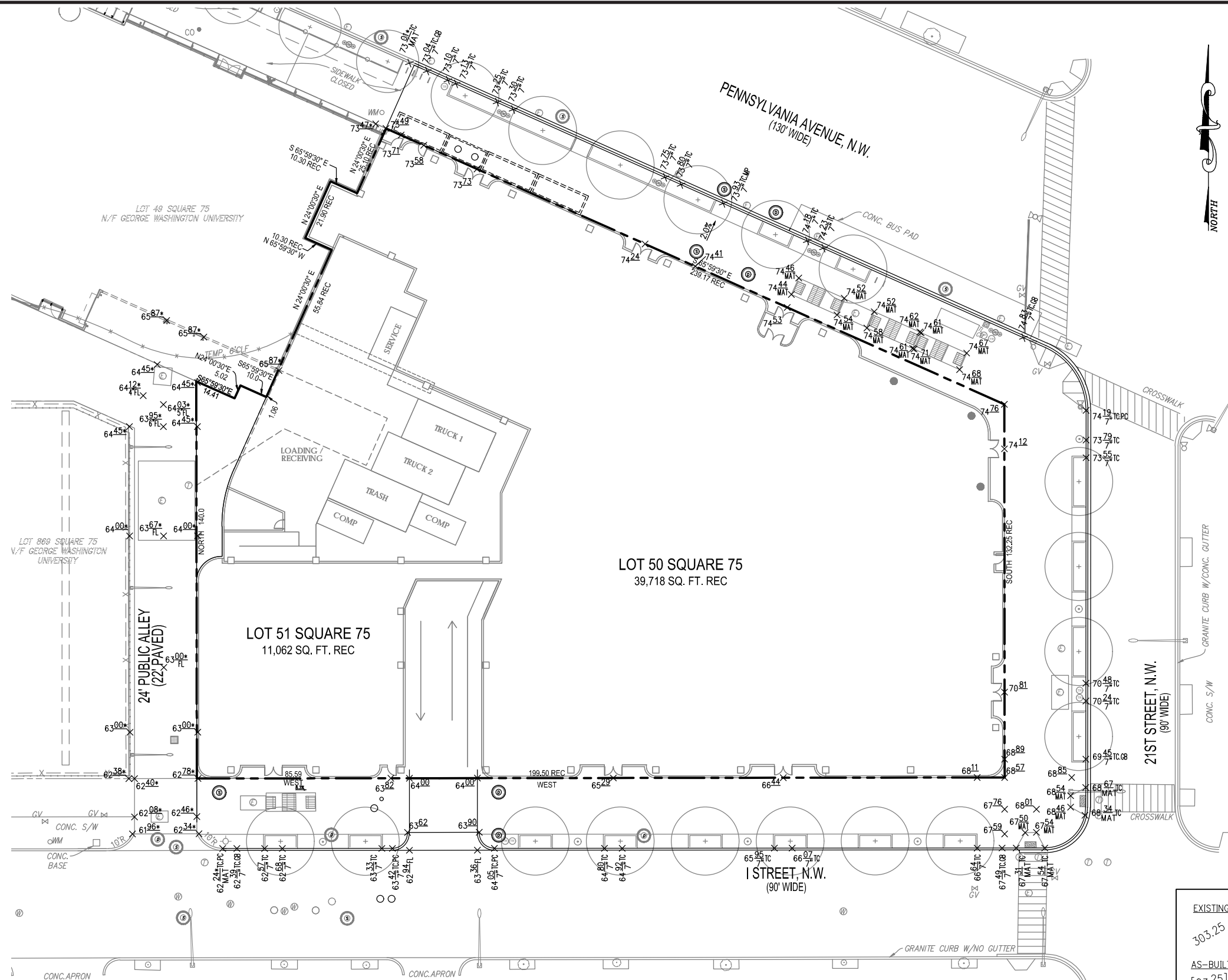
Description

GRADING PLAN

Scale

C-106

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EXISTING	LEGEND	BY OTHERS	PROPOSED	
303.25	SPOT ELEVATIONS	*03.25	03.25	HUNDREDS PLACE TRUNCATED
AS-BUILT [03.25]	SPOT ELEVATIONS (WITH NOTATION)	BY OTHERS: DESIGN INFORMATION FROM PLANS OTHER THAN THIS CONTRACT.	03.25 03.25 7	NOTATION & REVEAL
			UP DATED (DUE TO AS-BUILT)	BC: BOTTOM OF CURB CRN: CROWN GB: GRADE BREAK INV: INVERT MAT: MATCH (EXISTING CONDITION) LP: LOW POINT TC: TOP OF CURB PT: POINT OF TANGENCY PAR: PEDESTRIAN ACCESS ROUTE
			<03.25>	
			PAR	

GRADING PLAN