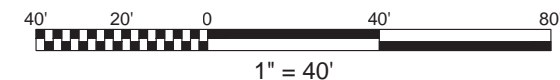


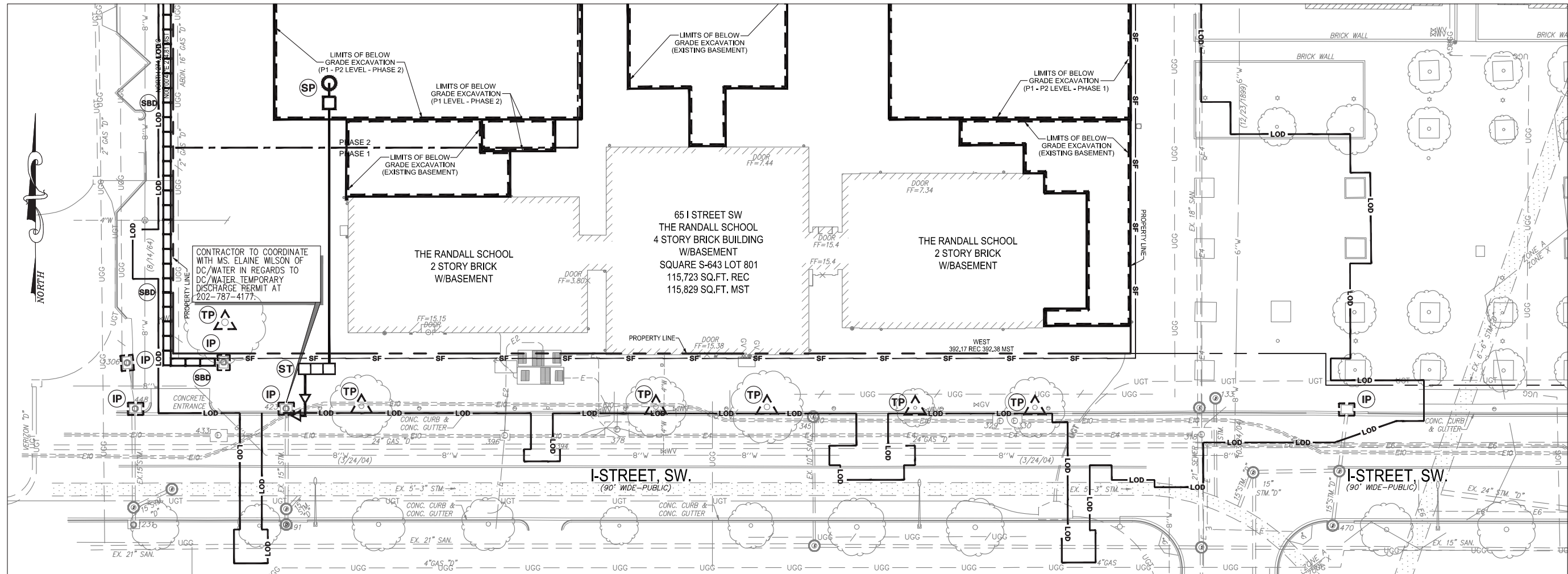
LOT 812 SQUARE 644
N/F UNITED STATES OF
AMERICA

MANHOLE TABLE

91 STORM MANHOLE TOP=9.04 FILLED W/DEBRIS	423 STORM MANHOLE TOP=8.95 FILLED W/WATER	2251 SEWER MANHOLE TOP=9.90 6" INV=4.59(W) 12" INV=4.19(E)	329 ELECTRIC MANHOLE TOP=9.68 BOTTOM=-1.17	2068 SEWER MANHOLE TOP=11.15 ? INV=-4.66(N) ? INV=-4.64(SW)	2386 ELECTRIC MANHOLE TOP=9.38 BOTTOM=6.98
133 SEWER MANHOLE TOP=10.89 ? INV=-5.85(N) ? INV=-5.58(S)	433 ELECTRIC MANHOLE TOP=8.57 BOTTOM=1.87	2255 STORM MANHOLE TOP=9.51 FILLED W/DEBRIS	330 ELECTRIC MANHOLE TOP=9.70 BOTTOM=-1.05	2069 SEWER MANHOLE TOP=10.98 21" INV=-1.54(W) ? INV=-1.54(SW) 24" INV=-1.81(NE)	2387 ELECTRIC MANHOLE TOP=9.60 BOTTOM=7.10
179 TELEPHONE MANHOLE TOP=15.69 BOTTOM=3.94	448 STORM MANHOLE TOP=8.77 FILLED W/WATER	2256 STORM MANHOLE TOP=9.49 FILLED W/DEBRIS	345 SEWER MANHOLE TOP=9.41 ? INV=-5.07(N) 10" INV=-1.28(W) 10" INV=-5.18(S)	2090 ELECTRIC MANHOLE TOP=11.46 INACCESSIBLE	2512 SEWER MANHOLE TOP=11.57 10" INV=3.35(N) 10" INV=3.45(W) 6" INV=6.21(S)
180 TELEPHONE MANHOLE TOP=15.95 BOTTOM=3.80	470 STORM MANHOLE TOP=8.77 FILLED W/WATER	2257 STORM MANHOLE TOP=9.48 FILLED W/DEBRIS	378 ELECTRIC MANHOLE TOP=9.14 BOTTOM=-0.71	2179 SEWER MANHOLE TOP=11.18 21" INV=-0.12(N) 4" INV=7.07(S) 10" INV=3.22(S)	2516 UTILITY MANHOLE (FUEL) TOP=11.61 TOP OF TANK=8.56 BOTTOM=-1.89
183 TELEPHONE MANHOLE TOP=15.86 BOTTOM=3.82	1231 STORM MANHOLE TOP=8.70 FILLED W/WATER	2261 SEWER MANHOLE TOP=9.11 FILLED W/DEBRIS	394 WATER MANHOLE TOP=9.28 BOTTOM=7.08	2184 WATER MANHOLE TOP=9.01 BOTTOM=6.31	2519 STEAM MANHOLE TOP=11.84 BOTTOM=7.94
261 ELECTRIC MANHOLE TOP=13.99 BOTTOM=4.61	1306 STORM MANHOLE TOP=8.99 FILLED W/WATER	2262 SEWER MANHOLE TOP=9.37 15" INV=3.90(N) 21" INV=0.55(W) 15" INV=5.07(S) 21" INV=0.47(E)	396 ELECTRIC MANHOLE TOP=9.04 BOTTOM=1.16		2656 UTILITY MANHOLE TOP = 11.61 BOTTOM = 7.1
287 STORM MANHOLE TOP=11.87 FILLED W/DEBRIS	1477 STORM MANHOLE TOP=7.40 BOTTOM=0.50 SUMP PUMP	2268 SEWER MANHOLE TOP=9.52 INACCESSIBLE			
318 ELECTRIC MANHOLE TOP=10.50 BOTTOM=1.52	2067 SEWER MANHOLE TOP=10.97 ? INV=-1.40(W) 12" INV=3.70(W) ? INV=-2.68(NE)	2269 WATER MANHOLE TOP=9.29 INACCESSIBLE			
320 WATER MANHOLE TOP=10.32 BOTTOM=7.94		2270 SEWER MANHOLE TOP=9.82 10" INV=1.54(N) 8" INV=2.40(E)			



1" = 40'
TITLE: EXISTING CONDITIONS PLAN NORTH
NUMBER: C-02



EROSION AND SEDIMENT CONTROL NARRATIVE:

A GREEN ROOF WILL BE CONSTRUCTED ON MULTIPLE LEVELS OF THE NEW BUILDING. ALSO, AS PART OF THE CONSTRUCTION, NEW UTILITIES WILL BE INSTALLED INCLUDING STORM SEWER, WATER AND SANITARY SEWER CONNECTING TO MAINS ALONG H STREET AND I STREET.

INLET PROTECTION IS TO BE USED ON CURB INLETS. THE SITE IS TO BE WRAPPED IN SILT FENCE. REFER TO SHEETS CIV103-01 AND CIV501 FOR EROSION AND SEDIMENT CONTROL DETAILS AND NOTES.

DESCRIPTION OF PREDOMINANT SOIL TYPE:

PREDOMINANT SOIL TYPES (FROM USDA-NRCS): 100% URBAN LAND (Ue)

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.

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 DELICIOUS MATERIALS 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. DISPENSE 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 WEEKLY 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 CIV103. SEE SHEET CIV501 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 CIV103.
5. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
6. CONSTRUCT BMPs AS INDICATED ON SHEET CIV701.
7. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

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

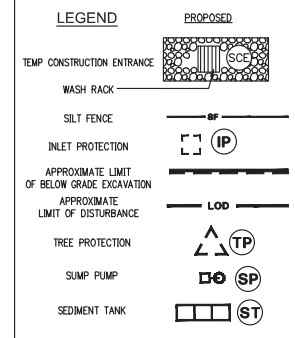
ALL CONSTRUCTION PROJECTS REQUIRING SOIL EROSION AND SEDIMENT CONTROL (ESC) PLANS MUST POST A DISTRICT-APPROVED SIGN THAT NOTIFIES THE PUBLIC TO CONTACT DOEE IN THE EVENT OF EROSION OR OTHER POLLUTION FROM THE SITE. DOEE HAS INCREASED ITS ENFORCEMENT EFFORTS FOR THIS REQUIREMENT. A LIMITED NUMBER OF 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).

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 ACCUMULATIONS 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.

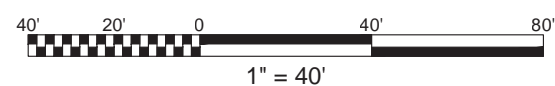
TOTAL SITE AREA: TOTAL SITE AREA: 107,878 SF / 2.477 AC
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (P1 - PHASE 1) TOTAL AREA OF EXCAVATION: 30,444 SF / 0.6989 AC VOLUME OF CUT: (30,444) SQ.FT. (AREA) X (15) FEET (DEPTH) 27 VOLUME OF CUT: (16,913) cy +/-
(P1 - PHASE 2) TOTAL AREA OF EXCAVATION: 25,814 SF / 0.5926 AC VOLUME OF CUT: (25,814) SQ.FT. (AREA) X (15) FEET (DEPTH) 27 VOLUME OF CUT: (14,341) cy +/-
P1 TOTAL VOLUME OF CUT: (31,254) cy +/-
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (P2 - PHASE 1) TOTAL AREA OF EXCAVATION: 30,444 SF / 0.6989 AC VOLUME OF CUT: (30,444) SQ.FT. (AREA) X (9) FEET (DEPTH) 27 VOLUME OF CUT: (10,148) cy +/-
(P2 - PHASE 2) TOTAL AREA OF EXCAVATION: 25,424 SF / 0.5837 AC VOLUME OF CUT: (25,424) SQ.FT. (AREA) X (9) FEET (DEPTH) 27 VOLUME OF CUT: (8,475) cy +/-
P2 TOTAL VOLUME OF CUT: (18,623) cy +/-

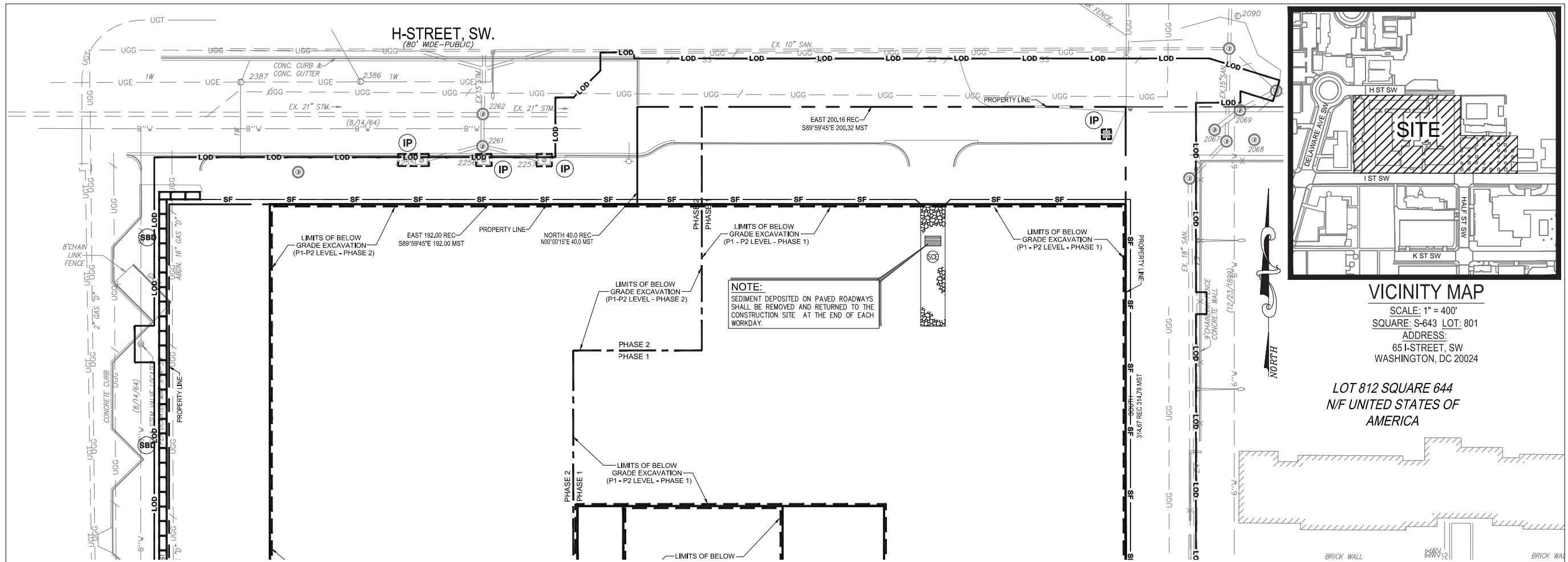
TOTAL VOLUME OF CUT /FILL FOR UTILITIES: TOTAL AREA OF EXCAVATION: 3,101 SF / 0.0712 AC VOLUME OF CUT: (3,101) SQ.FT. (AREA) X (7) FEET (DEPTH) 27 VOLUME OF CUT AND FILL: (804) cy +/-
TOTAL AREA OF DISTURBANCE: TOTAL AREA OF DISTURBANCE: 154,785 SQUARE FEET OR 3.5534 AC
CONSTRUCTION DATES: THE PROPOSED WORK IS ANTICIPATED TO TAKE APPROXIMATELY 24 MONTHS. EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (EX. BASEMENT- PHASE 1) TOTAL AREA OF EXCAVATION: 7,727 SF / 0.1774 AC VOLUME OF CUT: (7,727) SQ.FT. (AREA) X (13.5) FEET (DEPTH) 27 VOLUME OF CUT: (3,864) cy +/-



1" = 40'
TITLE: EROSION AND SEDIMENTATION CONTROL PLAN SOUTH
NUMBER: C-03

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





EROSION AND SEDIMENT CONTROL NARRATIVE:

A GREEN ROOF WILL BE CONSTRUCTED ON MULTIPLE LEVELS OF THE NEW BUILDING. ALSO, AS PART OF THE CONSTRUCTION, NEW UTILITIES WILL BE INSTALLED INCLUDING STORM SEWER, WATER AND SANITARY SEWER CONNECTING TO MAINS ALONG H STREET AND I STREET.

INLET PROTECTION IS TO BE USED ON CURB INLETS. THE SITE IS TO BE WRAPPED IN SILT FENCE. REFER TO SHEETS CIV103-01 AND CIV501 FOR EROSION AND SEDIMENT CONTROL DETAILS AND NOTES.

DESCRIPTION OF PREDOMINANT SOIL TYPE:

PREDOMINANT SOIL TYPES (FROM USDA-NRCS): 100% URBAN LAND (Ua)

STANDARD EROSION AND SEDIMENT CONTROL MEASURES AND SEQUENCE:

- SEDIMENT TRAPS OR BASINS AND OTHER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED NO LATER THAN THE FIRST PHASE OF LAND GRADING.
- 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.
- 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.
- REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF A DOEE INSPECTOR.
- PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DESTABILIZED AREAS.

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 CONTROL.
- THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
- 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.
- FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE.
 - ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER.
 - 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 DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
 - 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.
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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 ON SITE WITH DOE TO REMEDY POTENTIAL PROBLEMS. THE RESPONSIBLE PERSON IS TO HAVE AVAILABLE ON-SITE PROOF OF PROFESSIONAL LICENSING OR OF SUCCESSFUL COMPLETION OF A DEPARTMENT APPROVED TRAINING PROGRAM IN COMPLIANCE OF RESPONSIBLE PERSON DESIGNATION.

CONSTRUCTION AND STABILIZATION SEQUENCE:

- 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 CIV103. SEE SHEET CIV501 FOR EROSION AND SEDIMENT CONTROL DETAILS.
- SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
- REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN.
- INSTALL PROPOSED UTILITIES AS INDICATED ON SHEET CIV165.
- INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
- CONSTRUCT BMPs AS INDICATED ON SHEET CIV701.
- AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

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

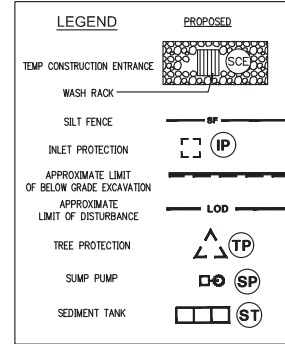
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EROSION AND SEDIMENT CONTROL NOTE:

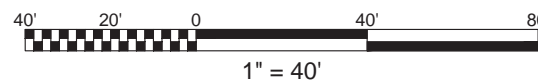
- THE APPLICANT MUST NOTIFY THE DEPARTMENT OF ENERGY AND ENVIRONMENT BY PHONE (202-535-2977) AT LEAST 72 HOURS PRIOR TO THE START OF LAND DISTURBING ACTIVITY AND WITHIN (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF ENERGY AND ENVIRONMENT MUST BE NOTIFIED IMMEDIATELY.
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- PROVIDE SILT FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
- CONTRACTOR TO PROVIDE ON SITE APPROVED STAMPED AND SIGNED SEDIMENTATION AND EROSION CONTROL DRAWINGS BY DEPARTMENT OF ENERGY AND ENVIRONMENT, WATERSHED PROTECTION DIVISION.
- PROVIDE A CHAIN LINK FENCE AT PERIMETER OF SITE.
- 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 WATERWAY.
- REMOVE OFF-SITE ACCUMULATIONS OF SEDIMENT DAILY DURING CONSTRUCTION AND IMMEDIATELY AT THE REQUEST OF DOEE INSPECTOR.
- PERFORM ROUTINE MAINTENANCE TO PREVENT ANY NEW DE-STABILIZATION AREAS.
- STRAW BALE DIKES WILL BE REPLACED EVERY THREE (3) MONTHS UNTIL COMMENCEMENT OF CONSTRUCTION.

TOTAL SITE AREA: TOTAL SITE AREA: 107,878 SF / 2.477 AC
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (P1 - PHASE 1) TOTAL AREA OF EXCAVATION: 30,444 SF / 0.6989 AC VOLUME OF CUT: (30,444) SQ.FT. (AREA) X (15) FEET (DEPTH) 27 VOLUME OF CUT: (16,913) cy +/-
(P1 - PHASE 2) TOTAL AREA OF EXCAVATION: 25,814 SF / 0.5926 AC VOLUME OF CUT: (25,814) SQ.FT. (AREA) X (15) FEET (DEPTH) 27 VOLUME OF CUT: (14,341) cy +/-
P1 TOTAL VOLUME OF CUT: (31,254) cy +/-
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (P2 - PHASE 1) TOTAL AREA OF EXCAVATION: 30,444 SF / 0.6989 AC VOLUME OF CUT: (30,444) SQ.FT. (AREA) X (9) FEET (DEPTH) 27 VOLUME OF CUT: (10,148) cy +/-
(P2 - PHASE 2) TOTAL AREA OF EXCAVATION: 25,424 SF / 0.5837 AC VOLUME OF CUT: (25,424) SQ.FT. (AREA) X (9) FEET (DEPTH) 27 VOLUME OF CUT: (8,475) cy +/-
P2 TOTAL VOLUME OF CUT: (18,623) cy +/-

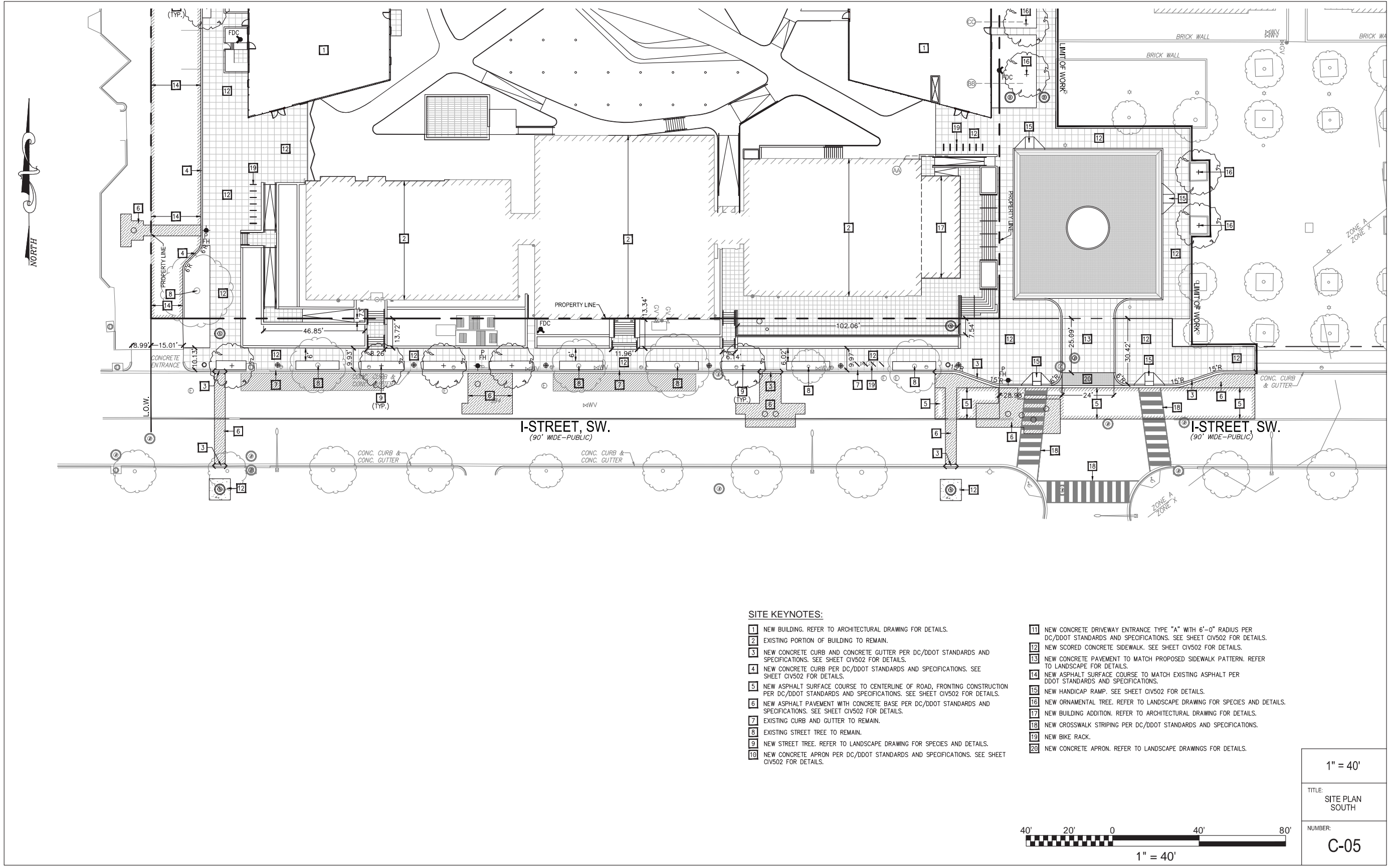
TOTAL VOLUME OF CUT/FILL FOR UTILITIES: TOTAL AREA OF EXCAVATION: 3,101 SF / 0.0712 AC VOLUME OF CUT: (3,101) SQ.FT. (AREA) X (7) FEET (DEPTH) 27
VOLUME OF CUT AND FILL: (804) cy +/-
TOTAL AREA OF DISTURBANCE: TOTAL AREA OF DISTURBANCE: 154,785 SQUARE FEET OR 3.5534 AC
CONSTRUCTION DATES: THE PROPOSED WORK IS ANTICIPATED TO TAKE APPROXIMATELY 24 MONTHS. EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.
TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION: (EX. BASEMENT- PHASE 1) TOTAL AREA OF EXCAVATION: 7,727 SF / 0.1774 AC VOLUME OF CUT: (7,727) SQ.FT. (AREA) X (13.5) FEET (DEPTH) 27 VOLUME OF CUT: (3,864) cy +/-



1" = 40'
TITLE:
EROSION AND SEDIMENTATION CONTROL PLAN NORTH
NUMBER:
C-04

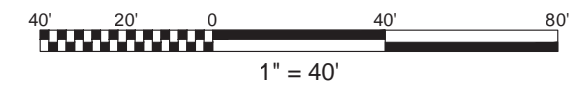


THIS SHEET IS TO BE USED FOR SEDIMENTATION AND EROSION CONTROL PURPOSES ONLY !!!

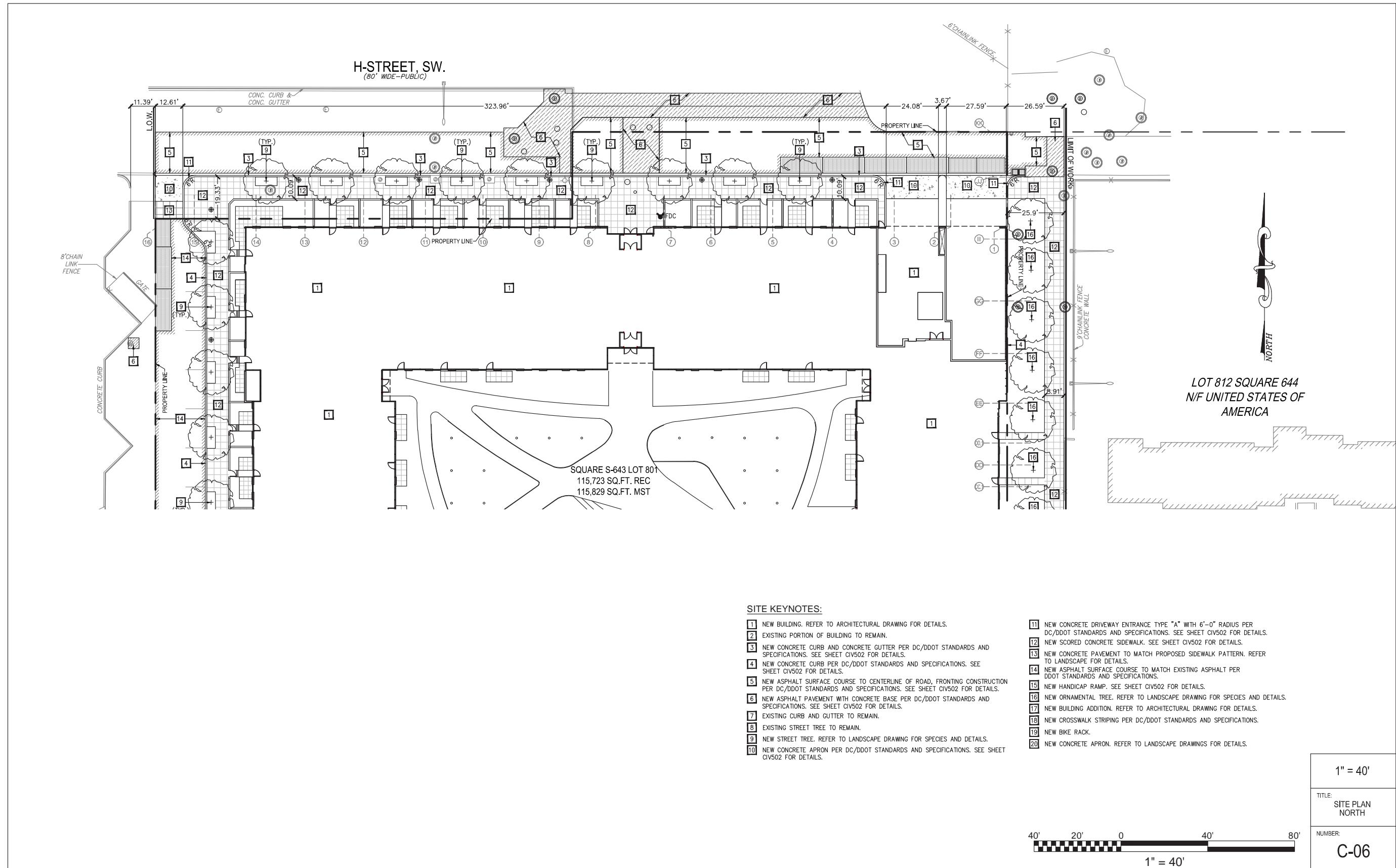


SITE KEYNOTES:

- 1 NEW BUILDING. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
- 2 EXISTING PORTION OF BUILDING TO REMAIN.
- 3 NEW CONCRETE CURB AND CONCRETE GUTTER PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 4 NEW CONCRETE CURB PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 5 NEW ASPHALT SURFACE COURSE TO CENTERLINE OF ROAD, FRONTING CONSTRUCTION PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 6 NEW ASPHALT PAVEMENT WITH CONCRETE BASE PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 7 EXISTING CURB AND GUTTER TO REMAIN.
- 8 EXISTING STREET TREE TO REMAIN.
- 9 NEW STREET TREE. REFER TO LANDSCAPE DRAWING FOR SPECIES AND DETAILS.
- 10 NEW CONCRETE APRON PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 11 NEW CONCRETE DRIVEWAY ENTRANCE TYPE "A" WITH 6'-0" RADIUS PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 12 NEW SCORED CONCRETE SIDEWALK. SEE SHEET CIV502 FOR DETAILS.
- 13 NEW CONCRETE PAVEMENT TO MATCH PROPOSED SIDEWALK PATTERN. REFER TO LANDSCAPE FOR DETAILS.
- 14 NEW ASPHALT SURFACE COURSE TO MATCH EXISTING ASPHALT PER DOT STANDARDS AND SPECIFICATIONS.
- 15 NEW HANDICAP RAMP. SEE SHEET CIV502 FOR DETAILS.
- 16 NEW ORNAMENTAL TREE. REFER TO LANDSCAPE DRAWING FOR SPECIES AND DETAILS.
- 17 NEW BUILDING ADDITION. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
- 18 NEW CROSSWALK STRIPING PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 19 NEW BIKE RACK.
- 20 NEW CONCRETE APRON. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.



1" = 40'
TITLE: SITE PLAN SOUTH
NUMBER: C-05



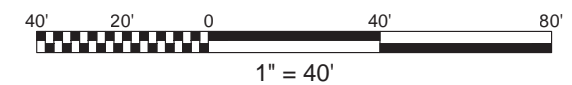
SITE KEYNOTES:

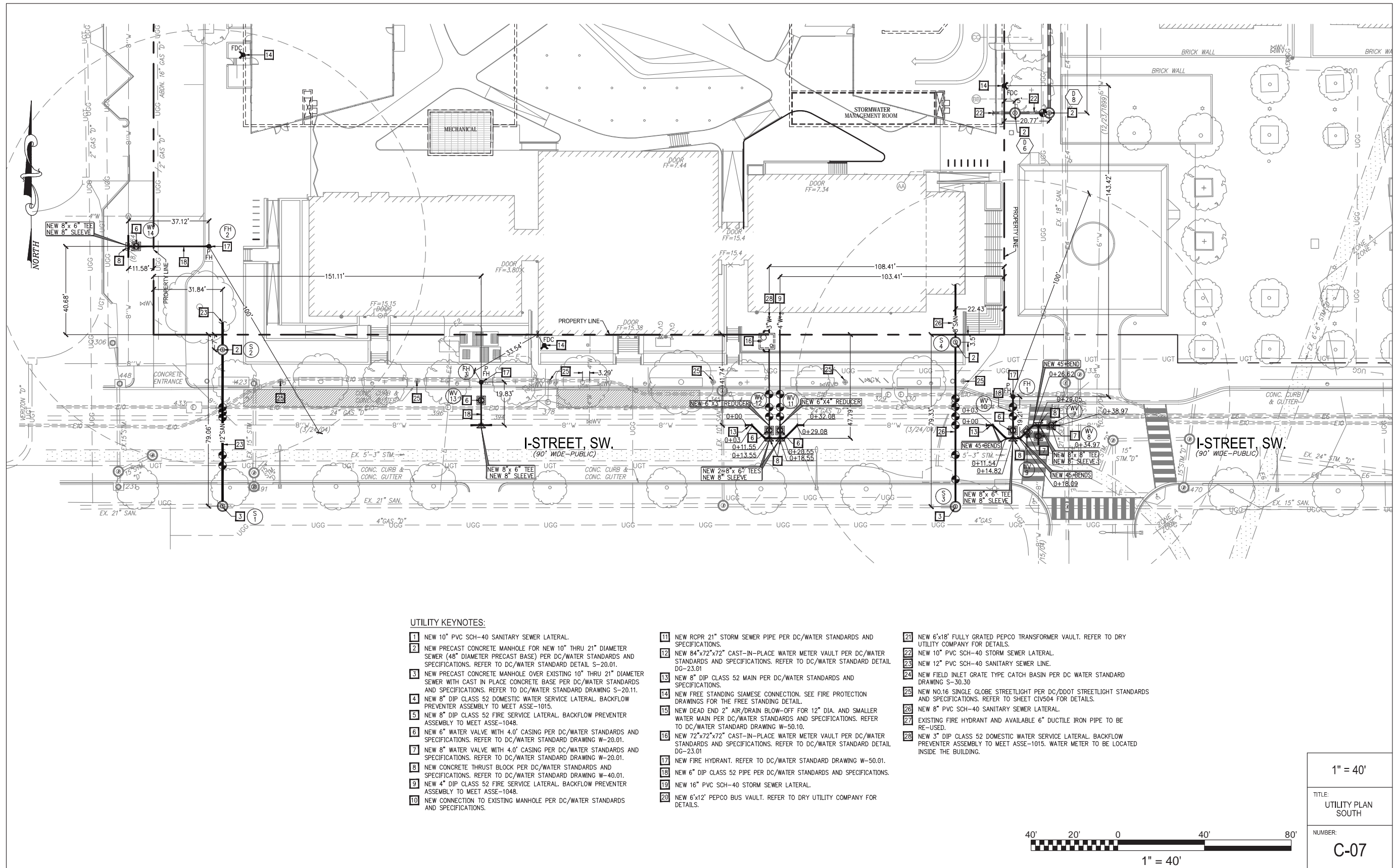
- 1** NEW BUILDING. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
- 2** EXISTING PORTION OF BUILDING TO REMAIN.
- 3** NEW CONCRETE CURB AND CONCRETE GUTTER PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 4** NEW CONCRETE CURB PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 5** NEW ASPHALT SURFACE COURSE TO CENTERLINE OF ROAD, FRONTING CONSTRUCTION PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 6** NEW ASPHALT PAVEMENT WITH CONCRETE BASE PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 7** EXISTING CURB AND GUTTER TO REMAIN.
- 8** EXISTING STREET TREE TO REMAIN.
- 9** NEW STREET TREE. REFER TO LANDSCAPE DRAWING FOR SPECIES AND DETAILS.
- 10** NEW CONCRETE APRON PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 11** NEW CONCRETE DRIVEWAY ENTRANCE TYPE "A" WITH 6'-0" RADIUS PER DC/DDOT STANDARDS AND SPECIFICATIONS. SEE SHEET CIV502 FOR DETAILS.
- 12** NEW SCORED CONCRETE SIDEWALK. SEE SHEET CIV502 FOR DETAILS.
- 13** NEW CONCRETE PAVEMENT TO MATCH PROPOSED SIDEWALK PATTERN. REFER TO LANDSCAPE FOR DETAILS.
- 14** NEW ASPHALT SURFACE COURSE TO MATCH EXISTING ASPHALT PER DDOT STANDARDS AND SPECIFICATIONS.
- 15** NEW HANDICAP RAMP. SEE SHEET CIV502 FOR DETAILS.
- 16** NEW ORNAMENTAL TREE. REFER TO LANDSCAPE DRAWING FOR SPECIES AND DETAILS.
- 17** NEW BUILDING ADDITION. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
- 18** NEW CROSSWALK STRIPING PER DC/DDOT STANDARDS AND SPECIFICATIONS.
- 19** NEW BIKE RACK.
- 20** NEW CONCRETE APRON. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.

1" = 40'

TITLE:
SITE PLAN
NORTH

NUMBER:
C-06



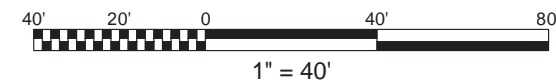


UTILITY KEYNOTES:

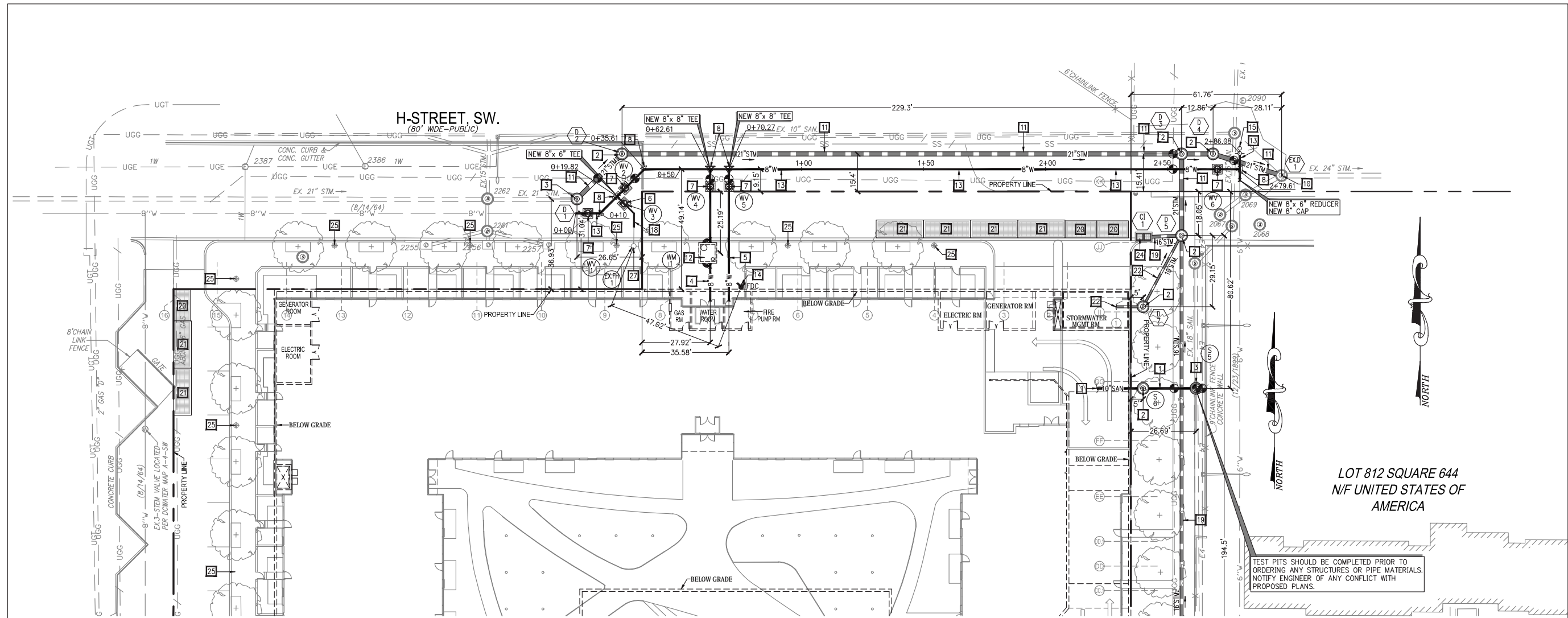
- 1 NEW 10" PVC SCH-40 SANITARY SEWER LATERAL.
- 2 NEW PRECAST CONCRETE MANHOLE FOR NEW 10" THRU 21" DIAMETER SEWER (48" DIAMETER PRECAST BASE) PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL S-20.01.
- 3 NEW PRECAST CONCRETE MANHOLE OVER EXISTING 10" THRU 21" DIAMETER SEWER WITH CAST IN PLACE CONCRETE BASE PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING S-20.11.
- 4 NEW 8" DIP CLASS 52 DOMESTIC WATER SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1015.
- 5 NEW 8" DIP CLASS 52 FIRE SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1048.
- 6 NEW 6" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-20.01.
- 7 NEW 8" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-20.01.
- 8 NEW CONCRETE THRUST BLOCK PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-40.01.
- 9 NEW 4" DIP CLASS 52 FIRE SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1048.
- 10 NEW CONNECTION TO EXISTING MANHOLE PER DC/WATER STANDARDS AND SPECIFICATIONS.

- 11 NEW RCP 21" STORM SEWER PIPE PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 12 NEW 84"x72"x72" CAST-IN-PLACE WATER METER VAULT PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL DG-23.01.
- 13 NEW 8" DIP CLASS 52 MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 14 NEW FREE STANDING SIAMESE CONNECTION. SEE FIRE PROTECTION DRAWINGS FOR THE FREE STANDING DETAIL.
- 15 NEW DEAD END 2" AIR/RAIN BLOW-OFF FOR 12" DIA. AND SMALLER WATER MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-50.10.
- 16 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.
- 17 NEW FIRE HYDRANT. REFER TO DC/WATER STANDARD DRAWING W-50.01.
- 18 NEW 6" DIP CLASS 52 PIPE PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 19 NEW 16" PVC SCH-40 STORM SEWER LATERAL.
- 20 NEW 6"x12" PEPCO BUS VAULT. REFER TO DRY UTILITY COMPANY FOR DETAILS.

- 21 NEW 6'x18" FULLY GRATED PEPCO TRANSFORMER VAULT. REFER TO DRY UTILITY COMPANY FOR DETAILS.
- 22 NEW 10" PVC SCH-40 STORM SEWER LATERAL.
- 23 NEW 12" PVC SCH-40 SANITARY SEWER LINE.
- 24 NEW FIELD INLET GRATE TYPE CATCH BASIN PER DC WATER STANDARD DRAWING S-30.30.
- 25 NEW NO.16 SINGLE GLOBE STREETLIGHT PER DC/DOT STREETLIGHT STANDARDS AND SPECIFICATIONS. REFER TO SHEET CIV504 FOR DETAILS.
- 26 NEW 8" PVC SCH-40 SANITARY SEWER LATERAL.
- 27 EXISTING FIRE HYDRANT AND AVAILABLE 6" DUCTILE IRON PIPE TO BE RE-USED.
- 28 NEW 3" DIP CLASS 52 DOMESTIC WATER SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1015. WATER METER TO BE LOCATED INSIDE THE BUILDING.

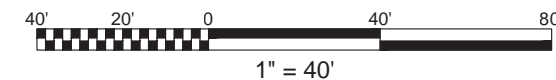


1" = 40'
TITLE: UTILITY PLAN SOUTH
NUMBER: C-07



UTILITY KEYNOTES:

- 1 NEW 10" 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 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-20.11.
- 4 NEW 8" DIP CLASS 52 DOMESTIC WATER SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1015.
- 5 NEW 8" DIP CLASS 52 FIRE SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1048.
- 6 NEW 6" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-20.01.
- 7 NEW 8" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-20.01.
- 8 NEW CONCRETE THRUST BLOCK PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-40.01.
- 9 NEW 4" DIP CLASS 52 FIRE SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1048.
- 10 NEW CONNECTION TO EXISTING MANHOLE PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 11 NEW RCPR 21" STORM SEWER PIPE PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 12 NEW 84"x72"x72" CAST-IN-PLACE WATER METER VAULT PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DETAIL DG-23.01.
- 13 NEW 8" DIP CLASS 52 MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 14 NEW FREE STANDING SIAMESE CONNECTION. SEE FIRE PROTECTION DRAWINGS FOR THE FREE STANDING DETAIL.
- 15 NEW DEAD END 2" AIR/DRAIN BLOW-OFF FOR 12" DIA. AND SMALLER WATER MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-50.10.
- 16 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.
- 17 NEW FIRE HYDRANT. REFER TO DC/WATER STANDARD DRAWING W-50.01.
- 18 NEW 6" DIP CLASS 52 PIPE PER DC/WATER STANDARDS AND SPECIFICATIONS.
- 19 NEW 16" PVC SCH-40 STORM SEWER LATERAL.
- 20 NEW 6"x12" PEPCO BUS VAULT. REFER TO DRY UTILITY COMPANY FOR DETAILS.
- 21 NEW 6"x18" FULLY GRATED PEPCO TRANSFORMER VAULT. REFER TO DRY UTILITY COMPANY FOR DETAILS.
- 22 NEW 10" PVC SCH-40 STORM SEWER LATERAL.
- 23 NEW 12" PVC SCH-40 SANITARY SEWER LINE.
- 24 NEW FIELD INLET GRATE TYPE CATCH BASIN PER DC WATER STANDARD DRAWING S-30.30.
- 25 NEW NO.16 SINGLE GLOBE STREETLIGHT PER DC/DDOT STREETLIGHT STANDARDS AND SPECIFICATIONS. REFER TO SHEET CIV504 FOR DETAILS.
- 26 NEW 8" PVC SCH-40 SANITARY SEWER LATERAL.
- 27 EXISTING FIRE HYDRANT AND AVAILABLE 6" DUCTILE IRON PIPE TO BE RE-USED.
- 28 NEW 3" DIP CLASS 52 DOMESTIC WATER SERVICE LATERAL. BACKFLOW PREVENTER ASSEMBLY TO MEET ASSE-1015. WATER METER TO BE LOCATED INSIDE THE BUILDING.



1" = 40'
TITLE: UTILITY PLAN NORTH
NUMBER: C-08

<p>DETAIL 1 - STABILIZED CONSTRUCTION ENTRANCE</p> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> LENGTH - MINIMUM OF 50' (50' FOR SINGLE RESIDENCE LOT). WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. ** THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" STONE OVER THE PIPE. WHEN THE SIZE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO CONVEY. A 6" MINIMUM WILL BE REQUIRED. THE MOUNTABLE BERM IS REQUIRED ON ALL SITES NOT LOCATED AT A HIGH SPOT. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE. <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE</p>	<p>DETAIL 4 - SILT FENCE</p> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1 1/2" x 1 1/2" SQUARE (MIN.) CUT, OR 1 3/4" DIAMETER (MIN.) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS SHALL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F: TENSILE STRENGTH: 30 LBS/IN (MIN.) TEST: ASTM D-4965 TENSILE MODULUS: 20 LBS/IN (MIN.) TEST: ASTM D-4965 FLOW RATE: 0.5 GAL/72" MINUTE (MAX.) TEST: ASTM D-5141 FILTRATION EFFICIENCY: 70% (MIN.) TEST: ASTM D-5141 WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. SILT FENCE MUST BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BLADGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED JOSE OF THE FABRIC HEIGHT. <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE</p>	<p>DETAIL 6A - STANDARD INLET PROTECTION</p> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18" BELOW THE NOTCH ELEVATION. DRIVE THE 2" x 4" CONSTRUCTION GRADE LUMBER POSTS 1" INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2" x 4" FRAME USING THE OVERLAP JOINT SHOWN ON DETAIL 6A. THE TOP OF THE FRAME (NER) MUST BE 6" BELOW ADJACENT ROADWAYS WHERE FLOODING AND SAFETY ISSUES MAY ARISE. STRETCH THE 1/2" x 1/2" WIRE MESH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. THE ENDS MUST MEET AND OVERLAP AT A POST. STRETCH THE GEOTEXTILE CLASS E TIGHTLY OVER THE WIRE MESH WITH THE GEOTEXTILE EXTENDING FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. FASTEN THE GEOTEXTILE FINALLY TO THE FRAME. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED THEN FASTENED DOWN. BACKFILL AROUND THE INLET IN COMPACTING 6" LAYERS UNTIL THE LAYER OF EARTH IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES. IF THE INLET IS NOT IN A SWAMP, CONSTRUCT A COMPACTED EARTH DIKE ACROSS THE DITCH LINE DIRECTLY BELOW IT. THE TOP OF THE EARTH DIKE SHOULD BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME. THE STRUCTURE MUST BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND THE GEOTEXTILE REPLACED WHEN IT BECOMES CLOGGED. <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE</p>	<p>DETAIL 6B - AT GRADE INLET PROTECTION</p> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> LEFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS, THEN SET GRATE BACK IN PLACE. PLACE 3/4" TO 1 1/2" STONE, 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION. <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE</p>	<p>DETAIL 6C - CURB INLET PROTECTION (COG OR COS INLETS)</p> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> ATTACH A CONTINUOUS PIECE OF WIRE MESH (10" MINIMUM WIDTH BY THROAT LENGTH PLUS 4") TO THE 2" x 4" WIRE (MEASURING THROAT LENGTH PLUS 2") AS SHOWN ON THE STANDARD DRAWING. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2" x 4" WIRE. SECURELY NAIL THE 2" x 4" WIRE TO A 6" LONG VERTICAL SPACER TO BE LOCATE BETWEEN THE WIRE AND THE INLET FACE (MAX. 4" APART). PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2" LENGTHS OF 2" x 4" TO THE TOP OF THE WIRE AT SPACER LOCATIONS). THESE 2" x 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1" BEYOND BOTH ENDS OF THE THROAT OPENING. FORM THE 1/2" x 1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE CURB AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4" x 1 1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT. ASSURE THAT THE STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET. <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE</p>	<p>DETAIL 6E - AT GRADE INLET GUARD</p> <p>CONSTRUCTION SPECIFICATIONS</p> <ol style="list-style-type: none"> THE TOP MEASUREMENT OF 7-1/2" IS SET TO PROVIDE A 2" EXTENSION FOR OVERFLOW WHILE AVOIDING BLOCKAGE OF THE MANHOLE COVER. MAKE A WATER TIGHT CONNECTION ALONG THE SIDES AND BOTTOM OF THE INLET GUARD WITH THE STREET AND CURB. <p>U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE</p>
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DETAIL 12 - PIPE OUTLET SEDIMENT TRAP - ST I

CONSTRUCTION SPECIFICATIONS

- THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- THE TOTAL VOLUME AS MEASURED FROM THE BOTTOM TO RISER CREST ELEVATION SHALL BE 3600 CUBIC FEET PER ACRE OF DRAINAGE AREA (SEE TABLE 11). THE TOP OF EMBANKMENT MUST BE 2' ABOVE THE RISER CREST ELEVATION.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF OF THE NET STORAGE DEPTH OF THE TRAP (900 CU YD). THE SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND REPAIRS.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCE CONSERVATION SERVICE

PIPE OUTLET SEDIMENT TRAP - ST I

CONSTRUCTION SPECIFICATIONS

- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE AVOIDED. ONCE CONSTRUCTED, THE TOP AND OUTSIDE FACE OF THE EMBANKMENT SHALL BE STABILIZED WITH SEED AND MULCH. POINTS OF CONCENTRATED INFLOW SHALL BE PROTECTED IN ACCORDANCE WITH GRADE STABILIZATION STRUCTURE CRITERIA. THE REMAINDER OF THE INTERIOR SLOPES SHOULD BE STABILIZED (ONE TIME) WITH SEED AND MULCH UPON TRAP COMPLETION AND MONITORED AND MAINTAINED EROSION FREE USING THE LIFE OF THE TRAP.
- THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
- ALL PIPE CONNECTIONS SHALL BE WATER TIGHT.
- ABOVE THE NET STORAGE ELEVATION, THE RISER SHALL BE PERFORATED WITH 1/2" WIDE BY 4" LONG SLOTS OR 1" DIAMETER HOLES SPACED 6" VERTICALLY AND HORIZONTALLY. NO PERFORATIONS WILL BE ALLOWED WITHIN 6" OF THE HORIZONTAL BARREL.
- THE RISER SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH (WIRE) THEN WRAPPED WITH GEOTEXTILE CLASS E. THE FILTER CLOTH SHALL EXTEND 4" ABOVE THE HIGHEST SPLIT AND 6" BELOW THE LOWEST SPLIT. WHERE ENDS OF SPLIT, WIRE ENDS OF FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND FASTENED TO PREVENT BYPASS. FILTER CLOTH SHALL BE REPLACED AS NECESSARY TO PREVENT CLOGGING.
- STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
- FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN 4" LAYERS. A MINIMUM OF 2" OF HAND-COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
- THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. CONCRETE BASES SHALL BE AT LEAST TWICE THE RISER DIAMETER, 1/4" MINIMUM THICKNESS AND ATTACHED TO THE BOTTOM OF THE RISER BY A CONTINUOUS WELD TO FORM A WATER TIGHT CONNECTION. THEN PLACE 2" OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.
- ANTI SEEP COLLARS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS (REF. TABLE 16 AND DETAILS 17 AND 18).

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCE CONSERVATION SERVICE

DETAIL 34 - PORTABLE SEDIMENT TANK (HORIZONTAL)

CONSTRUCTION SPECIFICATIONS

- THE RISER SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH (WIRE) THEN WRAPPED WITH GEOTEXTILE CLASS E. THE FILTER CLOTH SHALL EXTEND 4" ABOVE THE HIGHEST SPLIT AND 6" BELOW THE LOWEST SPLIT. WHERE ENDS OF SPLIT, WIRE ENDS OF FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND FASTENED TO PREVENT BYPASS. FILTER CLOTH SHALL BE REPLACED AS NECESSARY TO PREVENT CLOGGING.
- STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
- FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN 4" LAYERS. A MINIMUM OF 2" OF HAND-COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
- THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. CONCRETE BASES SHALL BE AT LEAST TWICE THE RISER DIAMETER, 1/4" MINIMUM THICKNESS AND ATTACHED TO THE BOTTOM OF THE RISER BY A CONTINUOUS WELD TO FORM A WATER TIGHT CONNECTION. THEN PLACE 2" OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.
- ANTI SEEP COLLARS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS (REF. TABLE 16 AND DETAILS 17 AND 18).

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCE CONSERVATION SERVICE

DETAIL 35 - PORTABLE SEDIMENT TANK (VERTICAL)

CONSTRUCTION SPECIFICATIONS

- THE FOLLOWING FORMULA SHOULD BE USED IN DETERMINING THE STORAGE VOLUME OF THE SEDIMENT TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY.
- AN EXAMPLE OF A TYPICAL SEDIMENT TANK IS SHOWN ABOVE. OTHER CONTAINER DESIGNS CAN BE USED IF THE STORAGE VOLUME IS ADEQUATE AND APPROVAL IS OBTAINED FROM THE LOCAL APPROVING AGENCY.
- TANKS MAY BE CONNECTED IN SERIES.

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NATURAL RESOURCE CONSERVATION SERVICE

DETAIL 74 - TREE PROTECTION

CONSTRUCTION SPECIFICATIONS

- ALL PROTECTIVE FENCING SHALL EXTEND BEYOND THE TREE DRILLINE.
- ALL PROTECTIVE FENCING SHALL EXTEND BEYOND THE TREE DRILLINE.
- TEMPORARY AND PERMANENT MEASURES.
- FINAL GRADE.
- ORIGINAL GROUND SURFACE.
- FILL AREAS.
- RETAINING WALL.
- PROPER PROCEDURE.
- EXCESSIVE CUT AND FILL WILL KILL THIS TREE.
- DRY WELL.
- MEASUREMENTS.
- PROPER PROCEDURE.

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TREE PROTECTION FENCE - ELEVATION

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TREE PROTECTION FENCE - PLAN VIEW

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NATURAL RESOURCE CONSERVATION SERVICE

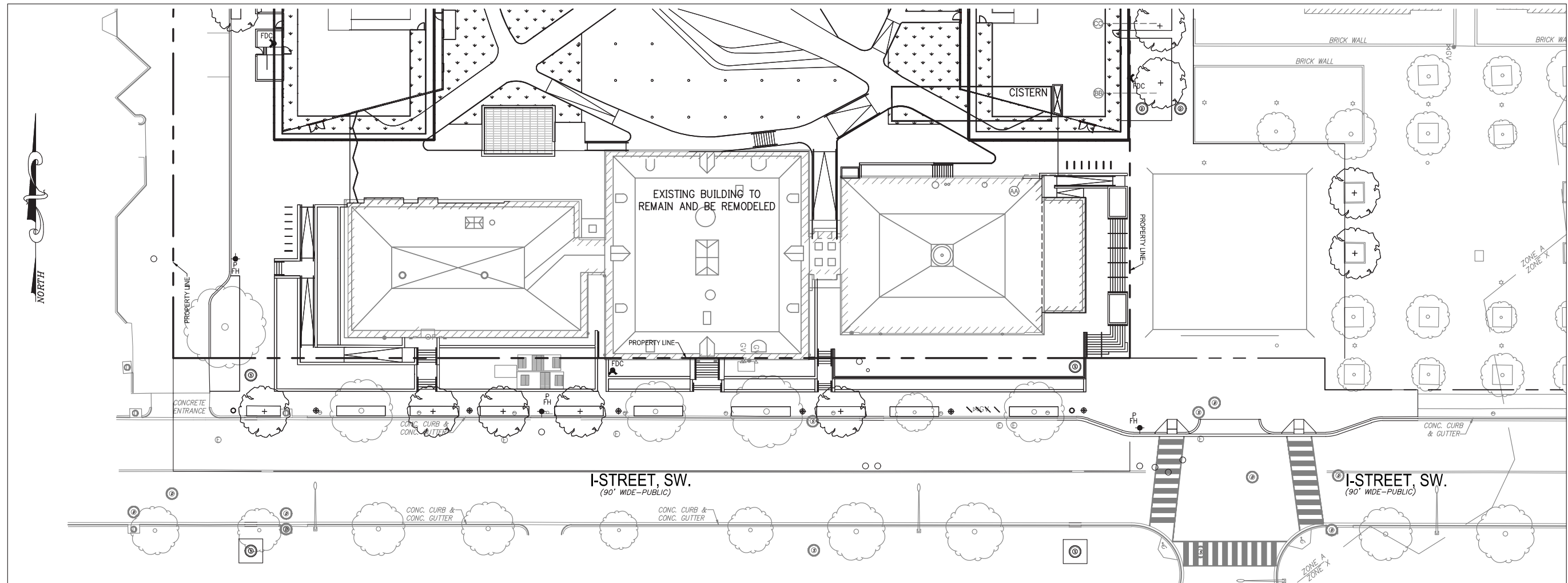
TREE ROOT PROTECTION WISLT FENCE

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TREE ROOT PROTECTION WISLT FENCE

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NATURAL RESOURCE CONSERVATION SERVICE

NTS
TITLE:
EROSION AND
SEDIMENTATION
CONTROL DETAILS
NUMBER:
C-09



LEGEND:

 GREEN ROOF

QUALITY AND QUANTITY STORMWATER MANAGEMENT ANALYSIS
Randall School - 65 I Street, SW

INPUT:

TOTAL SITE AREA:	115,829	SF
	2.659	ACRES
REMODELED AREA	18,106	SF
AREA OF NEW WORK	97,723	SF

STORM DATA:		
TYPE OF SEWER	Storm	
SIZE OF SEWER	10"	

STORMWATER MANAGEMENT NARRATIVE:

THE PROJECT WILL BE UNDER THE TRANSITION PERIOD 1 FOR STORMWATER MANAGEMENT PERFORMANCE REQUIREMENTS PER THE DISTRICT DEPARTMENT OF THE ENVIRONMENT. THIS WILL BE A MAJOR LAND DISTURBING ACTIVITY USING THE 2003 DOEE STORMWATER REQUIREMENTS. THEREFORE, THE SITE WILL MEET QUALITY AND QUANTITY REQUIREMENTS USING GREEN ROOF AND CISTERNS.


NOTE:

"NO PERMITTED STORM WATER BMP IS COMPLETE UNTIL FINAL INSPECTION HAS BEEN CONDUCTED AND AN AS-BUILT PLAN HAS BEEN SUBMITTED TO THE DOEE WITHIN 21 DAYS AFTER FINAL INSPECTION FOR REVIEW AND APPROVAL."

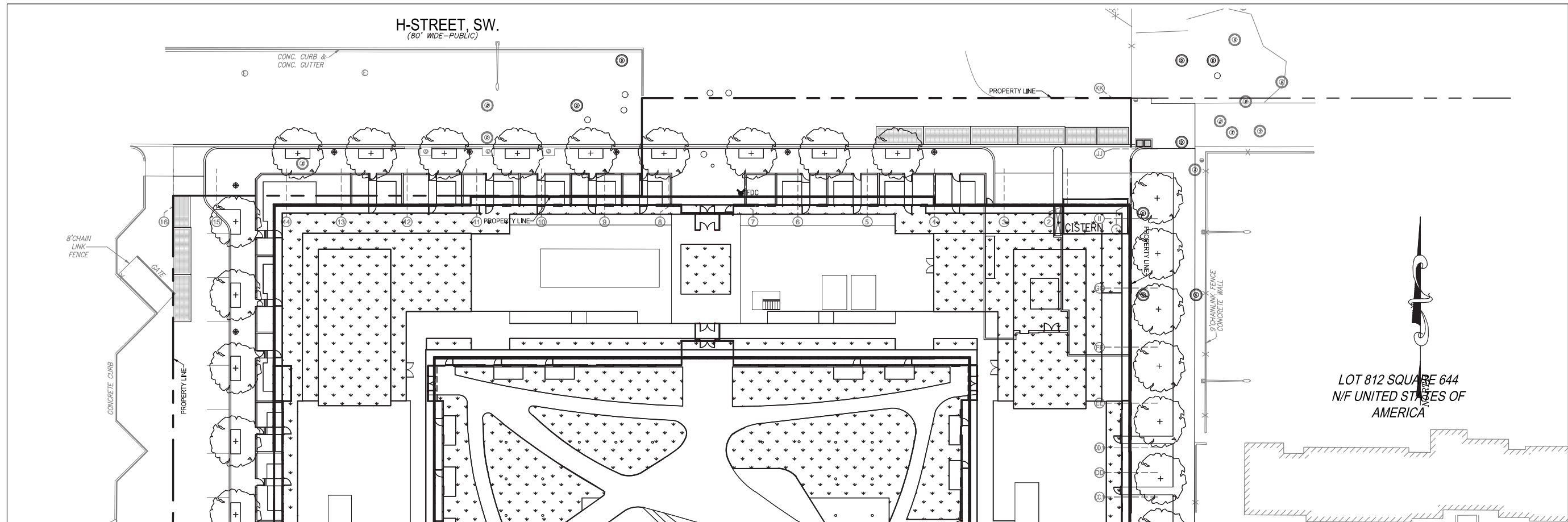
1" = 40'

TITLE: STORMWATER MANAGEMENT PLAN SOUTH

NUMBER: C-10



1" = 40'



LEGEND:

 GREEN ROOF

GENERAL NOTE:

1. REFER TO PLUMBING DRAWINGS FOR DETAILS OF INCOMING PIPE.
2. REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF REINFORCEMENT AND FILL SLAB THICKNESS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
4. THE SWM STRUCTURE IS A WATER QUANTITY/QUALITY STORMWATER MANAGEMENT TO SATISFY DOEE REQUIREMENTS FOR PUBLIC COMBINED SEWER CONNECTION.
5. REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING OF SWM STRUCTURE.

GREEN ROOF NOTES:

1. REFER TO LANDSCAPE DRAWINGS FOR GREEN ROOF DETAILS AND PLANTING SCHEDULE.
2. REFER TO LANDSCAPE AND ARCHITECTURAL FOR PLANT MATERIALS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING.
4. FERTILIZER IS NOT RECOMMENDED. IF APPLIED, THE FERTILIZER MUST BE A SLOW RELEASE TYPE, RATHER THAN LIQUID OR GASEOUS FORM.

STORMWATER MANAGEMENT NARRATIVE:

THE PROJECT WILL BE UNDER THE TRANSITION PERIOD 1 FOR STORMWATER MANAGEMENT PERFORMANCE REQUIREMENTS PER THE DISTRICT DEPARTMENT OF THE ENVIRONMENT. THIS WILL BE A MAJOR LAND DISTURBING ACTIVITY USING THE 2003 DOEE STORMWATER REQUIREMENTS. THEREFORE, THE SITE WILL MEET QUALITY AND QUANTITY REQUIREMENTS USING GREEN ROOF AND CISTERNS.


NOTE:

"NO PERMITTED STORM WATER BMP IS COMPLETE UNTIL FINAL INSPECTION HAS BEEN CONDUCTED AND AN AS-BUILT PLAN HAS BEEN SUBMITTED TO THE DOEE WITHIN 21 DAYS AFTER FINAL INSPECTION FOR REVIEW AND APPROVAL."

1" = 40'

TITLE: STORMWATER MANAGEMENT PLAN NORTH

NUMBER: C-11



1" = 40'



LEED v4 for BD+C: New Construction and Major Renovation
Project Checklist

Project Name: Randall School Historic Building
Date: 3/8/2018

Y ? N

1			Credit	Integrative Process	1
---	--	--	--------	---------------------	---

11	4	18	Location and Transportation		32
		16	Credit	LEED for Neighborhood Development Location	16
1			Credit	Sensitive Land Protection	1
		2	Credit	High Priority Site	2
2	3	0	Credit	Surrounding Density and Diverse Uses	5
5			Credit	Access to Quality Transit	5
1			Credit	Bicycle Facilities	1
1			Credit	Reduced Parking Footprint	1
1	1		Credit	Green Vehicles	1

3	4	3	Sustainable Sites		10
Y			Prereq	Construction Activity Pollution Prevention	Required
1			Credit	Site Assessment	1
		2	Credit	Site Development - Protect or Restore Habitat	2
		1	Credit	Open Space	1
	3		Credit	Rainwater Management	3
1	1		Credit	Heat Island Reduction	2
1			Credit	Light Pollution Reduction	1

4	5	2	Water Efficiency		11
Y			Prereq	Outdoor Water Use Reduction	Required
Y			Prereq	Indoor Water Use Reduction	Required
Y			Prereq	Building-Level Water Metering	Required
1	1		Credit	Outdoor Water Use Reduction	2
2	4		Credit	Indoor Water Use Reduction	6
		2	Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1

6	24	3	Energy and Atmosphere		33
Y			Prereq	Fundamental Commissioning and Verification	Required
Y			Prereq	Minimum Energy Performance	Required
Y			Prereq	Building-Level Energy Metering	Required
Y			Prereq	Fundamental Refrigerant Management	Required
	6		Credit	Enhanced Commissioning	6
6	12		Credit	Optimize Energy Performance	18
	1		Credit	Advanced Energy Metering	1
	2		Credit	Demand Response	2
		3	Credit	Renewable Energy Production	3
	1		Credit	Enhanced Refrigerant Management	1
	2		Credit	Green Power and Carbon Offsets	2

11	2	0	Materials and Resources		13
Y			Prereq	Storage and Collection of Recyclables	Required
Y			Prereq	Construction and Demolition Waste Management Planning	Required
5			Credit	Building Life-Cycle Impact Reduction	5
2	0		Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
	2		Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
2			Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2			Credit	Construction and Demolition Waste Management	2

9	7	0	Indoor Environmental Quality		16
Y			Prereq	Minimum Indoor Air Quality Performance	Required
Y			Prereq	Environmental Tobacco Smoke Control	Required
2			Credit	Enhanced Indoor Air Quality Strategies	2
3			Credit	Low-Emitting Materials	3
1			Credit	Construction Indoor Air Quality Management Plan	1
	2		Credit	Indoor Air Quality Assessment	2
	1		Credit	Thermal Comfort	1
1	1		Credit	Interior Lighting	2
	3		Credit	Daylight	3
1			Credit	Quality Views	1
1			Credit	Acoustic Performance	1

6	0	0	Innovation		6
5			Credit	Innovation	5
1			Credit	LEED Accredited Professional	1

0	0	0	Regional Priority		4
			Credit	Regional Priority: ‡ Acces to Quality Transit	1
			Credit	Regional Priority: ‡ Reduced Parking Footprint	1
			Credit	Regional Priority: ‡ Green Vehicles	1
			Credit	Regional Priority: ‡ Rainwater Mnmt/ Optimize energy/ Site devel-Protect/restore	1

51	46	26	TOTALS		Possible Points: 126
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110					



LEED v4 for BD+C: New Construction and Major Renovation
Project Checklist

Project Name: Randall School Residential Building
Date: 3/8/2018

Y ? N

1	0	20	Credit	Integrative Process	1
---	---	----	--------	---------------------	---

12	0	20	Location and Transportation		32
1	16	16	Credit	LEED for Neighborhood Development Location	16
1	1	1	Credit	Sensitive Land Protection	1
2	2	2	Credit	High Priority Site	2
3	2	2	Credit	Surrounding Density and Diverse Uses	5
5	5	5	Credit	Access to Quality Transit	5
1	1	1	Credit	Bicycle Facilities	1
1	1	1	Credit	Reduced Parking Footprint	1
1	1	1	Credit	Green Vehicles	1

5	5	0	Sustainable Sites		10
Y	1	1	Prereq	Construction Activity Pollution Prevention	Required
1	2	2	Credit	Site Assessment	1
2	2	2	Credit	Site Development - Protect or Restore Habitat	2
1	1	1	Credit	Open Space	1
3	3	3	Credit	Rainwater Management	3
2	2	2	Credit	Heat Island Reduction	2
1	1	1	Credit	Light Pollution Reduction	1

4	5	2	Water Efficiency		11
Y	1	1	Prereq	Outdoor Water Use Reduction	Required
Y	1	1	Prereq	Indoor Water Use Reduction	Required
Y	1	1	Prereq	Building-Level Water Metering	Required
1	1	1	Credit	Outdoor Water Use Reduction	2
2	4	4	Credit	Indoor Water Use Reduction	6
2	2	2	Credit	Cooling Tower Water Use	2
1	1	1	Credit	Water Metering	1

15	11	7	Energy and Atmosphere		33
Y	3	3	Prereq	Fundamental Commissioning and Verification	Required
Y	9	9	Prereq	Minimum Energy Performance	Required
Y	1	1	Prereq	Building-Level Energy Metering	Required
Y	3	3	Prereq	Fundamental Refrigerant Management	Required
3	3	3	Credit	Enhanced Commissioning	6
9	2	7	Credit	Optimize Energy Performance	18
1	1	1	Credit	Advanced Energy Metering	1
2	2	2	Credit	Demand Response	2
1	2	2	Credit	Renewable Energy Production	3
1	1	1	Credit	Enhanced Refrigerant Management	1
2	2	2	Credit	Green Power and Carbon Offsets	2

7	1	5	Materials and Resources		13
Y	1	1	Prereq	Storage and Collection of Recyclables	Required
Y	1	1	Prereq	Construction and Demolition Waste Management Planning	Required
5	5	5	Credit	Building Life-Cycle Impact Reduction	5
2	2	2	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
2	2	2	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
2	2	2	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
1	1	1	Credit	Construction and Demolition Waste Management	2

10	5	0	Indoor Environmental Quality		16
Y	1	1	Prereq	Minimum Indoor Air Quality Performance	Required
Y	1	1	Prereq	Environmental Tobacco Smoke Control	Required
2	2	2	Credit	Enhanced Indoor Air Quality Strategies	2
3	3	3	Credit	Low-Emitting Materials	3
1	1	1	Credit	Construction Indoor Air Quality Management Plan	1
2	2	2	Credit	Indoor Air Quality Assessment	2
1	1	1	Credit	Thermal Comfort	1
1	1	1	Credit	Interior Lighting	2
2	2	2	Credit	Daylight	3
1	1	1	Credit	Quality Views	1
1	1	1	Credit	Acoustic Performance	1

6	0	0	Innovation		6
5	5	5	Credit	Innovation	5
1	1	1	Credit	LEED Accredited Professional	1

1	0	0	Regional Priority		4
1	1	1	Credit	Regional Priority: ‡ Acces to Quality Transit	1
1	1	1	Credit	Regional Priority: ‡ Reduced Parking Footprint	1
1	1	1	Credit	Regional Priority: ‡ Green Vehicles	1
1	1	1	Credit	Regional Priority: ‡ Rainwater Mnmt/ Optimize energy/ Site devel-Protect/restore	1

60	27	34	TOTALS		Possible Points: 126
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110					

Green Area Ratio Scoresheet

Address:

Other / BZA Order:

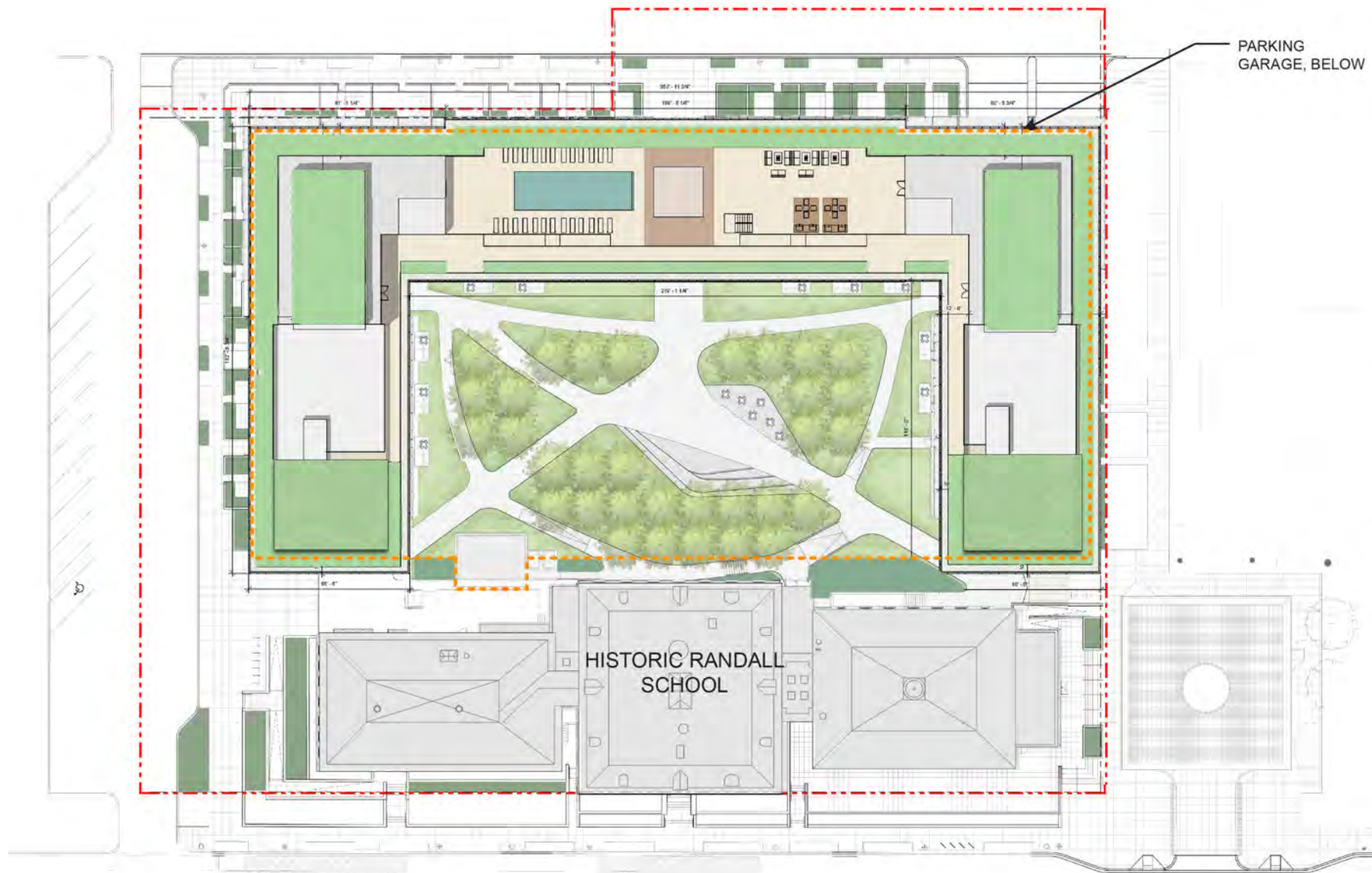
Ward: Lot: Square: Zoning District:

enter sq ft of lot: multiplier: SCORE:

Lot size (enter this value first) *

Landscape Elements	Square Feet	Factor	Total
A Landscaped areas (select one of the following for each area)			
1 Landscaped areas with a soil depth of less than 24"	<input type="text" value="enter sq ft"/>	0.3	-
2 Landscaped areas with a soil depth of 24" or greater	<input type="text" value="4,898"/>	0.6	2,938.8
3 Bioretention facilities	<input type="text" value="0"/>	0.4	-
B Plantings (credit for plants in landscaped areas from Section A)			
1 Groundcovers, or other plants less than 2' tall at maturity	<input type="text" value="10,860"/>	0.2	2,172.0
2 Plants, not including grasses, 2' or taller at maturity - calculated at 9 sq ft per plant (typically planted no closer than 18" on center)	enter number of plants <input type="text" value="2,209"/>	19881	0.3
3 Tree canopy for all new trees 2.5" to 6" in diameter or equivalent - calculated at 50 sq ft per tree	enter number of trees <input type="text" value="9"/>	450	0.5
4 Tree canopy for new trees 6" diameter or larger or equivalent - calculated at 250 sq ft per tree	enter number of trees <input type="text" value="0"/>	0	0.6
5 Tree canopy for preservation of existing tree 6" to 12" in diameter or larger or equivalent - calculated at 250 sq ft per tree	enter number of trees <input type="text" value="0"/>	0	0.7
6 Tree canopy for preservation of existing tree 12" to 18" in diameter or larger or equivalent - calculated at 600 sq ft per tree	enter number of trees <input type="text" value="0"/>	0	0.7
7 Tree canopy for preservation of all existing trees 18" to 24" in diameter or equivalent - calculated at 1300 sq ft per tree	enter number of trees <input type="text" value="0"/>	0	0.7
8 Tree canopy for preservation of all existing trees 24" in diameter or larger or equivalent - calculated at 2000 sq ft per tree	enter number of trees <input type="text" value="1"/>	2000	0.8
9 Vegetated wall, plantings on a vertical surface	enter sq ft <input type="text" value="0"/>	0.6	-

C Vegetated or "green" roofs			
1 Over at least 2" and less than 8" of growth medium	<input type="text" value="enter sq ft"/>	0.6	-
2 Over at least 8" of growth medium	<input type="text" value="28,682"/>	0.8	22,945.6
D Permeable Paving***			
1 Permeable paving over at least 6" and less than 24" of soil or gravel	<input type="text" value="0"/>	0.4	-
2 Permeable paving over at least 24" of soil or gravel	<input type="text" value="0"/>	0.5	-
E Other			
1 Enhanced tree growth systems***	<input type="text" value="0"/>	0.4	-
2 Renewable energy generation	<input type="text" value="0"/>	0.5	-
3 Approved water features	<input type="text" value="0"/>	0.2	-
sub-total of sq ft = 66,771			
H Bonuses			
1 Native plant species	<input type="text" value="17,715"/>	0.1	1,771.5
2 Landscaping in food cultivation	<input type="text" value="0"/>	0.1	-
3 Harvested stormwater irrigation	<input type="text" value="0"/>	0.1	-
Green Area Ratio numerator = 37,617			
*** Permeable paving and structural soil together may not qualify for more than one third of the Green Area Ratio score.			
Total square footage of all permeable paving and enhanced tree growth			



GAR CALCULATIONS

LANDSCAPE ELEMENT	BASELINE	REQUIRED	TOTAL	UNIT
A2: SOIL DEPTH > 24"	4,898	-	4,898	SF
B1: PLANTINGS < 2' HT	10,860	-	10,860	SF
B2: PLANTINGS > 2' HT	2,209	-	2,209	PLANTS
B3: NEW TREES, 2.5" - 6" CAL (50 sf per tree)	9	-	9	TREES
C1: GREEN ROOF, 2"-8" GROWING MEDIUM DEPTH	-	-	-	SF
C2: GREEN ROOF, 8" + GROWING MEDIUM DEPTH	28,682	-	28,682	SF
H1: NATIVE PLANT BONUS	17,715	-	17,715	SF

GAR SCORE	0.325	0.325
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NOTES:

- 1) B1 (GROUNDCOVERS) CALCULATED AT 75% COVERAGE OF C2 (GREEN ROOF)
- 2) B2 (2' AND HIGHER PLANTINGS) CALCULATED AT 50% COVERAGE OF C2 (GREEN ROOF); SOME GROUNDCOVERS (B1) WILL BE UNDERPLANTED FOR B2
- 3) H1 ASSUMES 50% NATIVE PLANT SPECIES FOR B1, B2, B3

LEGEND

- - - - PROPERTY LINE
- GREEN ROOF OVER BUILDING
- COURTYARD PLANTING/
GREEN ROOF OVER PARKING GARAGE
- AT GRADE PLANTING