

CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) PHASE 1 - EARLY SITE ISSUED FOR BID

SMITHSONIAN INSTITUTION (SI)
NATIONAL ZOOLOGICAL CONSERVATION BIOLOGY INSTITUTE (NZCBI)
3001 Connecticut Avenue NW
Washington, DC 20008
OPDC PROJECT NO.: 2533105

ALF

CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID

SMITHSONIAN OPDC
APPROVAL BLOCK

DM: _____
DESIGN CHIEF: _____
R.E.: _____
OPPM: _____
OFM&R: _____
OSHEM: _____
OPS: _____

THIS PROJECT IS APPROVED AS BEING
IN CONFORMANCE WITH THE
APPLICABLE PROVISIONS OF
SMITHSONIAN INSTITUTION DIRECTIVE
410.

MICHAEL J. CARRANCHO, P.E., ASSOCIATE DIRECTOR, OPDC

DATE	SUBMISSION
04/02/2026	ISSUED FOR BID

REVISION #	DATE	DESCRIPTION

ARCHITECTURE / LANDSCAPE /
HISTORIC PRESERVATION /
MECHANICAL / PLUMBING /
ELECTRICAL / LIGHTING / LIFE &
SAFETY & FIRE PROTECTION

SmithGroup
1700 New York Avenue NW, Suite 100
Washington, DC 20006
Phone: 202-842-2100

SURVEYOR

Wiles Mench
100 M Street SE #320
Washington, DC 20003
Phone: 202-638-4040

CIVIL ENGINEERING

Sorba
22365 Broderick Drive, Suite 265
Dulles, Virginia 20166
Phone: 571-771-0273

GEOTECHNICAL ENGINEER

Haley & Aldrich
8245 Boone Blvd, Suite 510
Vienna, VA
Phone: 860-209-1783

IRRIGATION

Hines Inc.
323 W Drake Rd
Fort Collins, CO 80526
Phone: 970-282-1800

STRUCTURAL ENGINEERING

TYLin
1053 31st St NW
Washington, DC 20007
Phone: 202-333-6230

ZOO SPECIALIST

SHR Studios
600 Winslow Way E, Suite 115
Bainbridge Island, WA 98110
Phone: 206-842-8332

TELECOMM

BrightTree Studios
301 Brush Creek Road
Warrendale PA 15086
Phone: 412-212-7515

SECURITY

M2H Protection
14 West Main Street, Suite 2A
Middletown, MD 21769
Phone: 301-371-6047

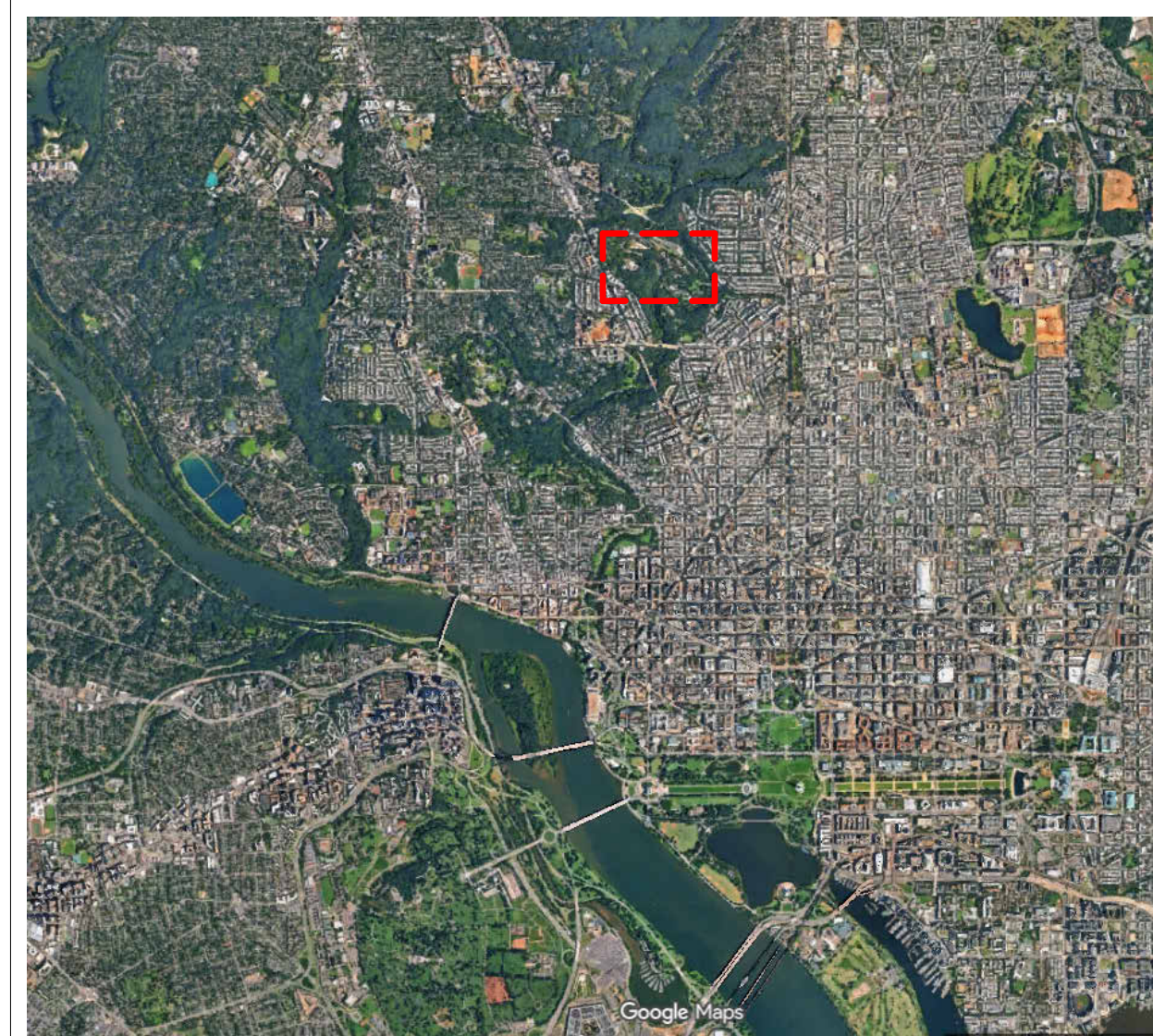
ACOUSTICS

Metropolitan Acoustics
1628 JFK Boulevard
8 Penn Center, Suite 1902
Philadelphia, PA 19103
Phone: 215-248-4352

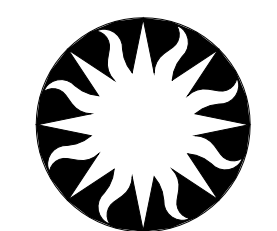
DOOR HARDWARE

Studio 08
1628 JFK Boulevard
8 Penn Center, Suite 1902
Philadelphia, PA 19103
Phone: 215-248-4352

VICINITY MAP



LOCATION MAP



Smithsonian
Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME ARABIAN LEOPARD FACILITY (ALF)

ADDRESS 3001 Connecticut Avenue NW
Washington, DC 20008

PROJECT TITLE CONSTRUCT ARABIAN LEOPARD
FACILITY (ALF)

SF PROJECT NUMBER 2533105

A/E PROJECT NUMBER 00100084

DRAWING TITLE COVER SHEET - PHASE 1

DESIGNED BY	DRAWN BY	CHECKED BY
DS	KJ	MR

SHEET NO. GE-001CS

OF _____

SHEET INDEX

NOTE: 'R' DENOTES SHEETS ISSUED FOR REFERENCE ONLY

PHASE 1:
ISSUED FOR BID

SHEET NO. SHEET NAME

GENERA		
GE-001CS	COVER SHEET - PHASE 1	X
GE-002CS	GENERAL NOTES - PHASE 1	X
GE-003CS	SHEET INDEX - PHASE 1	X

CIVIL		
C-001CS	COVER SHEET	X
C-002CS	NOTES, LEGEND, AND ABBREVIATIONS	X
C-100XP	EXISTING CONDITIONS	X
C-110DP	DEMOLITION PLAN - SITE	X
C-111DP	DEMOLITION PLAN - TREE	X
C-112DP	DEMOLITION PLAN - UTILITY	X
C-130GP	GRADING PLAN	R
C-131GP	GRADING PLAN	R
C-132GP	GRADING PLAN	R
C-133GP	GRADING PLAN	R
C-134GP	GRADING PLAN	R
C-135GP	GRADING PLAN	R
C-136GP	GRADING PLAN	R
C-140EP	EROSION & SEDIMENT CONTROL PLAN - PH1	X
C-145EP	EROSION & SEDIMENT CONTROL PLAN - PH2	X
C-150SP	SITE PLAN	R
C-151SP	SITE PLAN	R
C-152SP	SITE PLAN	R
C-153SP	SITE PLAN	R
C-154SP	SITE PLAN	R
C-155SP	SITE PLAN	R
C-156SP	SITE PLAN	R
C-160UP	UTILITY PLAN	X
C-161UP	UTILITY PLAN	X
C-162UP	UTILITY PLAN	X
C-163UP	UTILITY PLAN	X
C-164UP	UTILITY PLAN	X
C-165UP	UTILITY PLAN	X
C-166UP	UTILITY PLAN	X
C-200UP	STORM PROFILES	X
C-201UP	STORM PROFILES	X
C-202UP	STORM PROFILES	X
C-205UP	SANITARY SEWER PROFILES	X
C-210UP	CONTAMINATED STORM SEWER PROFILES	X
C-211UP	CONTAMINATED STORM SEWER PROFILES	X
C-212UP	CONTAMINATED STORM SEWER PROFILES	X
C-215UP	WATER PROFILES	X
C-216UP	WATER PROFILES	X
C-217UP	WATER PROFILES	X
C-218UP	WATER PROFILES	X
C-220UP	ELECTRIC PROFILES	R
C-221UP	ELECTRIC PROFILES	R
C-225UP	NATURAL GAS PROFILES	X
C-230UP	TELECOMMUNICATION PROFILES	R
C-500DT	EROSION & SEDIMENT CONTROL NOTES	X
C-501DT	EROSION & SEDIMENT CONTROL NOTES	X
C-502DT	EROSION & SEDIMENT CONTROL DETAILS	X
C-503DT	EROSION & SEDIMENT CONTROL DETAILS	X
C-507DT	STORMWATER MANAGEMENT PLAN - DETAILS AND NOTES	X
C-508DT	STORMWATER MANAGEMENT PLAN - DETAILS AND NOTES	X
C-510DT	SITE DETAILS	X
C-515DT	STORM DETAILS	X
C-516DT	STORM DETAILS	X
C-520DT	SANITARY DETAILS	X
C-525DT	CONTAMINATED STORM DETAILS	X
C-530DT	WATER DETAILS	X
C-531DT	WATER DETAILS	X

ALF

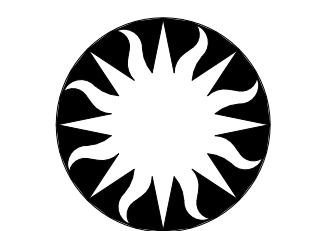
CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID

STAMP

GRAPHIC SCALE(S)

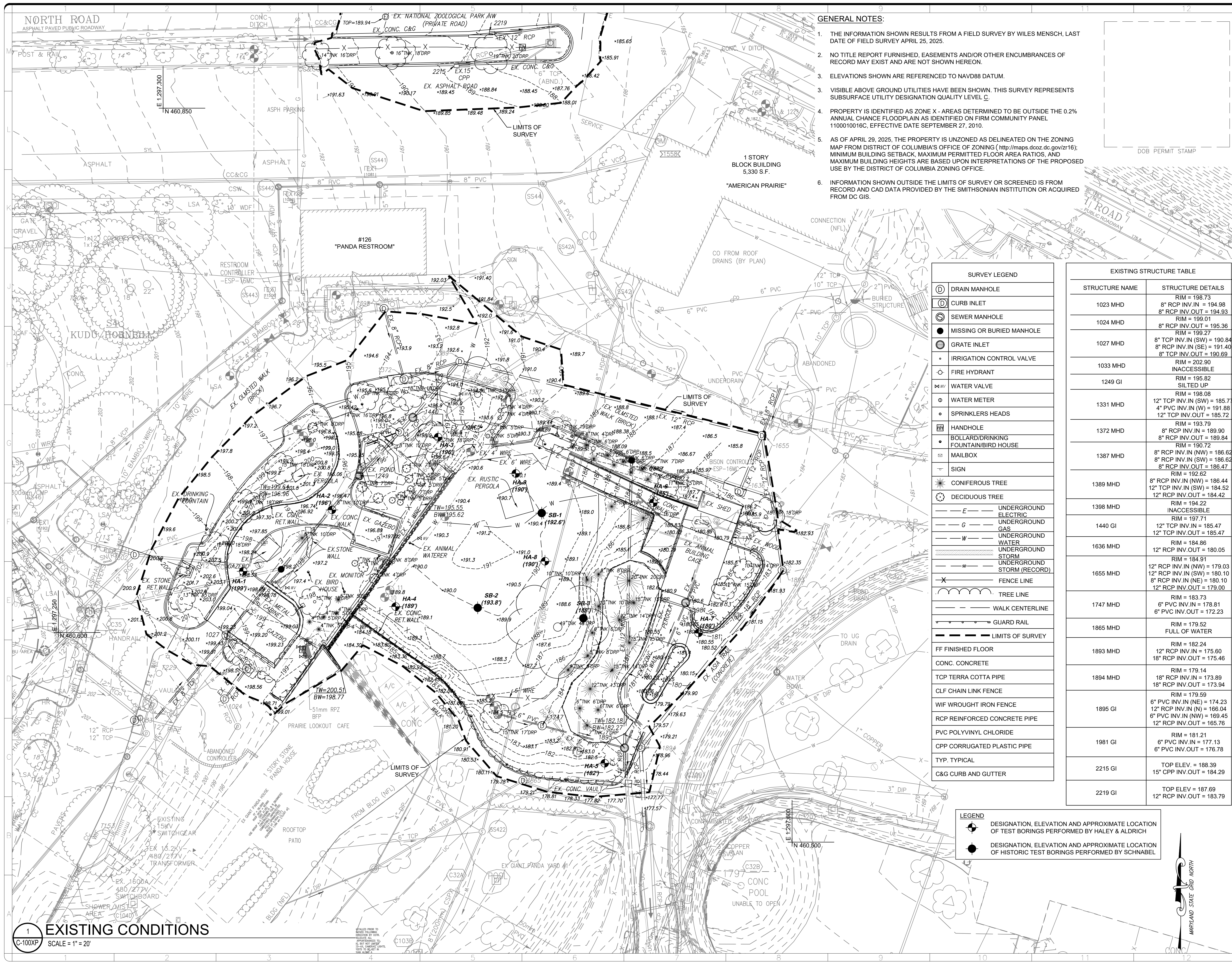
DATE	04/02/2026	REVISION	ISSUED FOR BID
PERSON #		DESCRIPTION	



Smithsonian Institution

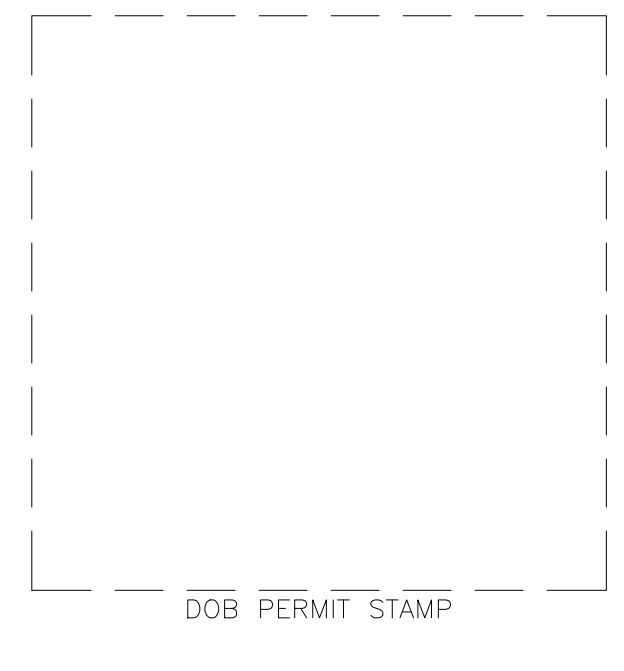
Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	SHEET INDEX - PHASE 1
WORKING STAFF	DESIGNED BY: N/A DRAWN BY: JR CHECKED BY: KJ
SHEET NO.	GE-003CS
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE



GENERAL NOTES:

1. THE INFORMATION SHOWN RESULTS FROM A FIELD SURVEY BY WILES MENSCH, LAST DATE OF FIELD SURVEY APRIL 25, 2025.
2. NO TITLE REPORT FURNISHED, EASEMENTS AND/OR OTHER ENCUMBRANCES OF RECORD MAY EXIST AND ARE NOT SHOWN HEREON.
3. ELEVATIONS SHOWN ARE REFERENCED TO NAVD88 DATUM.
4. VISIBLE ABOVE GROUND UTILITIES HAVE BEEN SHOWN. THIS SURVEY REPRESENTS SUBSURFACE UTILITY DESIGNATION QUALITY LEVEL C.
5. PROPERTY IS IDENTIFIED AS ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS IDENTIFIED ON FIRM COMMUNITY PANEL 1100010016C, EFFECTIVE DATE SEPTEMBER 27, 2010.
6. AS OF APRIL 29, 2025, THE PROPERTY IS UNZONED AS DELINEATED ON THE ZONING MAP FROM DISTRICT OF COLUMBIA'S OFFICE OF ZONING (<http://maps.dcoz.dc.gov/zr16>); MINIMUM BUILDING SETBACK, MAXIMUM PERMITTED FLOOR AREA RATIOS, AND MAXIMUM BUILDING HEIGHTS ARE BASED UPON INTERPRETATIONS OF THE PROPOSED USE BY THE DISTRICT OF COLUMBIA ZONING OFFICE.
7. INFORMATION SHOWN OUTSIDE THE LIMITS OF SURVEY OR SCREENED IS FROM RECORD AND CAD DATA PROVIDED BY THE SMITHSONIAN INSTITUTION OR ACQUIRED FROM DC GIS.



SURVEY LEGEND	
	DRAIN MANHOLE
	CURB INLET
	SEWER MANHOLE
	MISSING OR BURIED MANHOLE
	GRATE INLET
	IRRIGATION CONTROL VALVE
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	SPRINKLERS HEADS
	HANDHOLE
	BOLLARD/DRINKING FOUNTAIN/BIRD HOUSE
	MAILBOX
	SIGN
	CONIFEROUS TREE
	DECIDUOUS TREE
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND WATER
	UNDERGROUND STORM
	UNDERGROUND STORM (RECORD)
	FENCE LINE
	TREE LINE
	WALK CENTERLINE
	GUARD RAIL
	LIMITS OF SURVEY
	FF FINISHED FLOOR
	CONC. CONCRETE
	TCP TERRA COTTA PIPE
	CLF CHAIN LINK FENCE
	WIF WROUGHT IRON FENCE
	RCP REINFORCED CONCRETE PIPE
	PVC POLYVINYL CHLORIDE
	CPP CORRUGATED PLASTIC PIPE
	TYP. TYPICAL
	C&G CURB AND GUTTER

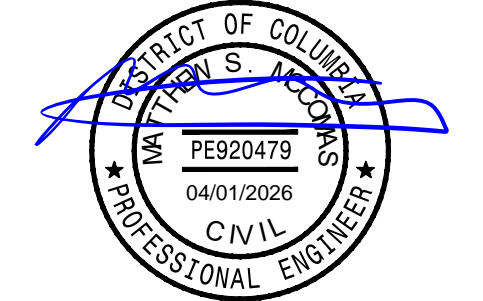
EXISTING STRUCTURE TABLE	
STRUCTURE NAME	STRUCTURE DETAILS
1023 MHD	RIM = 198.73 8" RCP INV.IN = 194.98 8" RCP INV.OUT = 194.93
1024 MHD	RIM = 199.01 8" RCP INV.OUT = 195.36
1027 MHD	RIM = 199.27 8" TCP INV.IN (SW) = 190.84 8" RCP INV.IN (SE) = 191.40 8" TCP INV.OUT = 190.69
1033 MHD	RIM = 202.90 INACCESSIBLE
1249 GI	RIM = 195.82 SILTED UP
1331 MHD	RIM = 198.08 12" TCP INV.IN (SW) = 185.77 4" PVC INV.IN (W) = 191.88 12" TCP INV.OUT = 185.72
1372 MHD	RIM = 193.79 8" RCP INV.IN = 189.90 8" RCP INV.OUT = 189.84
1387 MHD	RIM = 190.72 8" RCP INV.IN (NW) = 186.62 8" RCP INV.IN (SW) = 186.62 8" RCP INV.OUT = 186.47
1389 MHD	RIM = 192.82 8" RCP INV.IN (NW) = 186.44 12" TCP INV.IN (SW) = 184.52 12" RCP INV.OUT = 184.42
1398 MHD	RIM = 194.22 INACCESSIBLE
1440 GI	RIM = 197.71 12" TCP INV.IN = 185.47 12" TCP INV.OUT = 185.47
1636 MHD	RIM = 184.86 12" RCP INV.OUT = 180.05
1655 MHD	RIM = 184.91 12" RCP INV.IN (NW) = 179.03 12" RCP INV.IN (SW) = 180.10 8" RCP INV.IN (NE) = 180.10 12" RCP INV.OUT = 179.00
1747 MHD	RIM = 183.73 6" PVC INV.IN = 178.81 6" PVC INV.OUT = 172.23
1865 MHD	RIM = 179.52 FULL OF WATER
1893 MHD	RIM = 182.24 12" RCP INV.IN = 175.60 18" RCP INV.OUT = 175.46
1894 MHD	RIM = 179.14 18" RCP INV.IN = 173.89 18" RCP INV.OUT = 173.94
1895 GI	RIM = 179.59 6" PVC INV.IN (NE) = 174.23 12" RCP INV.IN (N) = 166.04 6" PVC INV.IN (NW) = 169.45 12" RCP INV.OUT = 165.76
1981 GI	RIM = 181.21 6" PVC INV.IN = 177.13 6" PVC INV.OUT = 176.78
2215 GI	TOP ELEV. = 188.39 15" CPP INV.OUT = 184.29
2219 GI	TOP ELEV. = 187.69 12" RCP INV.OUT = 183.79

- LEGEND**
- DESIGNATION, ELEVATION AND APPROXIMATE LOCATION OF TEST BORINGS PERFORMED BY HALEY & ALDRICH
 - DESIGNATION, ELEVATION AND APPROXIMATE LOCATION OF HISTORIC TEST BORINGS PERFORMED BY SCHNABEL

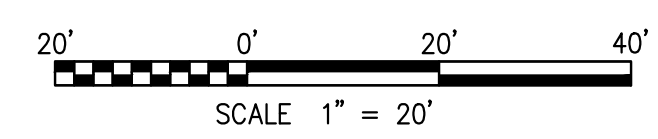
ALF

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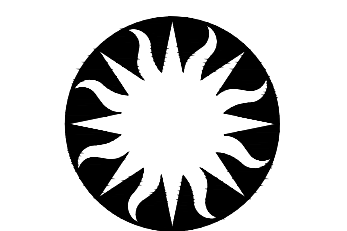


KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	ISSUED FOR BID
DESIGNER / DATE	DESIGNER / DESCRIPTION



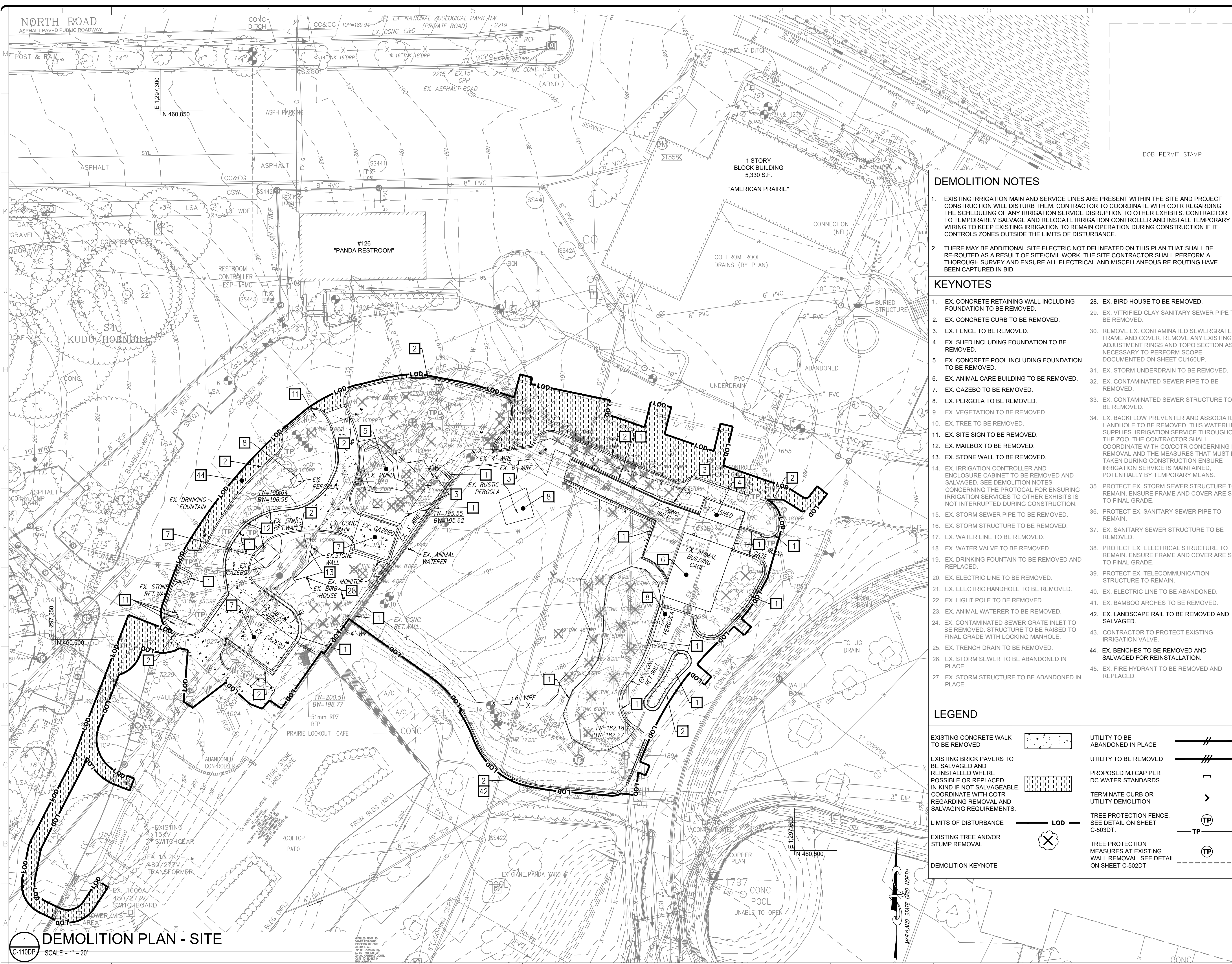
Smithsonian Institution

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600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

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OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
ISSUED FOR BID	EXISTING CONDITIONS
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 100 XP
OF	

3/12/2026 11:18:18 AM
XX-XXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

EXISTING CONDITIONS
SCALE = 1" = 20'



1 DEMOLITION PLAN - SITE
 C-110DP SCALE = 1" = 20'

DEMOLITION NOTES

- EXISTING IRRIGATION MAIN AND SERVICE LINES ARE PRESENT WITHIN THE SITE AND PROJECT CONSTRUCTION WILL DISTURB THEM. CONTRACTOR TO COORDINATE WITH COTR REGARDING THE SCHEDULING OF ANY IRRIGATION SERVICE DISRUPTION TO OTHER EXHIBITS. CONTRACTOR TO TEMPORARILY SALVAGE AND RELOCATE IRRIGATION CONTROLLER AND INSTALL TEMPORARY WIRING TO KEEP EXISTING IRRIGATION TO REMAIN OPERATION DURING CONSTRUCTION IF IT CONTROLS ZONES OUTSIDE THE LIMITS OF DISTURBANCE.
- THERE MAY BE ADDITIONAL SITE ELECTRIC NOT DELINEATED ON THIS PLAN THAT SHALL BE RE-ROUTED AS A RESULT OF SITE/CIVIL WORK. THE SITE CONTRACTOR SHALL PERFORM A THOROUGH SURVEY AND ENSURE ALL ELECTRICAL AND MISCELLANEOUS RE-ROUTING HAVE BEEN CAPTURED IN BID.

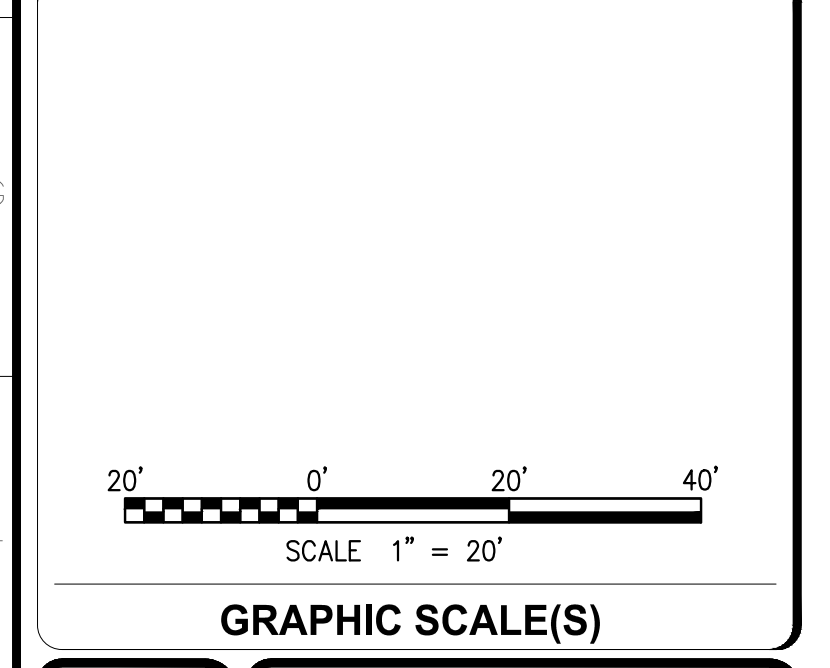
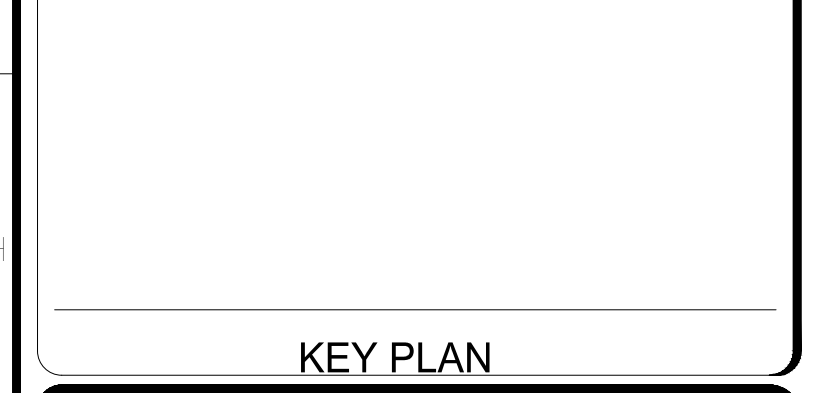
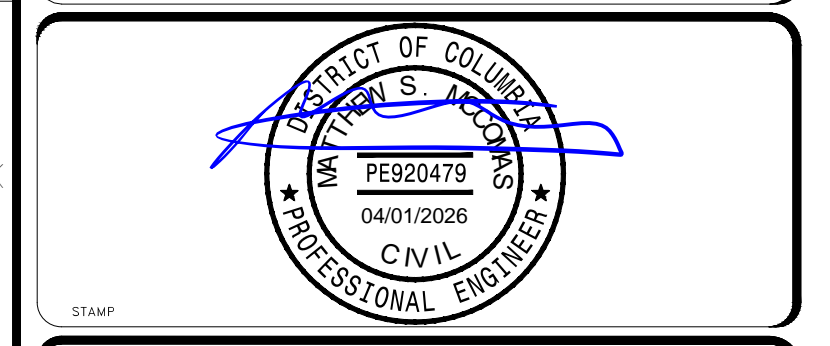
KEYNOTES

- EX. CONCRETE RETAINING WALL INCLUDING FOUNDATION TO BE REMOVED.
- EX. CONCRETE CURB TO BE REMOVED.
- EX. FENCE TO BE REMOVED.
- EX. SHED INCLUDING FOUNDATION TO BE REMOVED.
- EX. CONCRETE POOL INCLUDING FOUNDATION TO BE REMOVED.
- EX. ANIMAL CARE BUILDING TO BE REMOVED.
- EX. GAZEBO TO BE REMOVED.
- EX. PERGOLA TO BE REMOVED.
- EX. VEGETATION TO BE REMOVED.
- EX. TREE TO BE REMOVED.
- EX. SITE SIGN TO BE REMOVED.
- EX. MAILBOX TO BE REMOVED.
- EX. STONE WALL TO BE REMOVED.
- EX. IRRIGATION CONTROLLER AND ENCLOSURE CABINET TO BE REMOVED AND SALVAGED. SEE DEMOLITION NOTES CONCERNING THE PROTOCOL FOR ENSURING IRRIGATION SERVICES TO OTHER EXHIBITS IS NOT INTERRUPTED DURING CONSTRUCTION.
- EX. STORM SEWER PIPE TO BE REMOVED.
- EX. STORM STRUCTURE TO BE REMOVED.
- EX. WATER LINE TO BE REMOVED.
- EX. WATER VALVE TO BE REMOVED.
- EX. DRINKING FOUNTAIN TO BE REMOVED AND REPLACED.
- EX. ELECTRIC LINE TO BE REMOVED.
- EX. ELECTRIC HANDHOLE TO BE REMOVED.
- EX. LIGHT POLE TO BE REMOVED.
- EX. ANIMAL WATERER TO BE REMOVED.
- EX. CONTAMINATED SEWER GRATE INLET TO BE REMOVED. STRUCTURE TO BE RAISED TO FINAL GRADE WITH LOCKING MANHOLE.
- EX. TRENCH DRAIN TO BE REMOVED.
- EX. STORM SEWER TO BE ABANDONED IN PLACE.
- EX. STORM STRUCTURE TO BE ABANDONED IN PLACE.
- EX. BIRD HOUSE TO BE REMOVED.
- EX. VITRIFIED CLAY SANITARY SEWER PIPE TO BE REMOVED.
- REMOVE EX. CONTAMINATED SEWERGRATE FRAME AND COVER. REMOVE ANY EXISTING ADJUSTMENT RINGS AND TOP SECTION AS NECESSARY TO PERFORM SCOPE DOCUMENTED ON SHEET CU160UP.
- EX. STORM UNDERDRAIN TO BE REMOVED.
- EX. CONTAMINATED SEWER PIPE TO BE REMOVED.
- EX. CONTAMINATED SEWER STRUCTURE TO BE REMOVED.
- EX. BACKFLOW PREVENTER AND ASSOCIATED HANDHOLE TO BE REMOVED. THIS WATERLINE SUPPLIES IRRIGATION SERVICE THROUGHOUT THE ZOO. THE CONTRACTOR SHALL COORDINATE WITH COTR CONCERNING ITS REMOVAL AND THE MEASURES THAT MUST BE TAKEN DURING CONSTRUCTION ENSURE IRRIGATION SERVICE IS MAINTAINED. POTENTIALLY BY TEMPORARY MEANS.
- PROTECT EX. STORM SEWER STRUCTURE TO REMAIN. ENSURE FRAME AND COVER ARE SET TO FINAL GRADE.
- PROTECT EX. SANITARY SEWER PIPE TO REMAIN.
- EX. SANITARY SEWER STRUCTURE TO BE REMOVED.
- PROTECT EX. ELECTRICAL STRUCTURE TO REMAIN. ENSURE FRAME AND COVER ARE SET TO FINAL GRADE.
- PROTECT EX. TELECOMMUNICATION STRUCTURE TO REMAIN.
- EX. ELECTRIC LINE TO BE ABANDONED.
- EX. BAMBOO ARCHES TO BE REMOVED.
- EX. LANDSCAPE RAIL TO BE REMOVED AND SALVAGED.
- CONTRACTOR TO PROTECT EXISTING IRRIGATION VALVE.
- EX. BENCHES TO BE REMOVED AND SALVAGED FOR REINSTALLATION.
- EX. FIRE HYDRANT TO BE REMOVED AND REPLACED.

LEGEND

EXISTING CONCRETE WALK TO BE REMOVED		UTILITY TO BE ABANDONED IN PLACE	
EXISTING BRICK PAVERS TO BE SALVAGED AND REINSTALLED WHERE POSSIBLE OR REPLACED IN-KIND IF NOT SALVAGEABLE. COORDINATE WITH COTR REGARDING REMOVAL AND SALVAGING REQUIREMENTS.		UTILITY TO BE REMOVED	
LIMITS OF DISTURBANCE		PROPOSED MJ CAP PER DC WATER STANDARDS	
EXISTING TREE AND/OR STUMP REMOVAL		TERMINATE CURB OR UTILITY DEMOLITION	
DEMOLITION KEYNOTE		TREE PROTECTION FENCE. SEE DETAIL ON SHEET C-503DT.	
		TREE PROTECTION MEASURES AT EXISTING WALL REMOVAL. SEE DETAIL ON SHEET C-502DT.	

ALF
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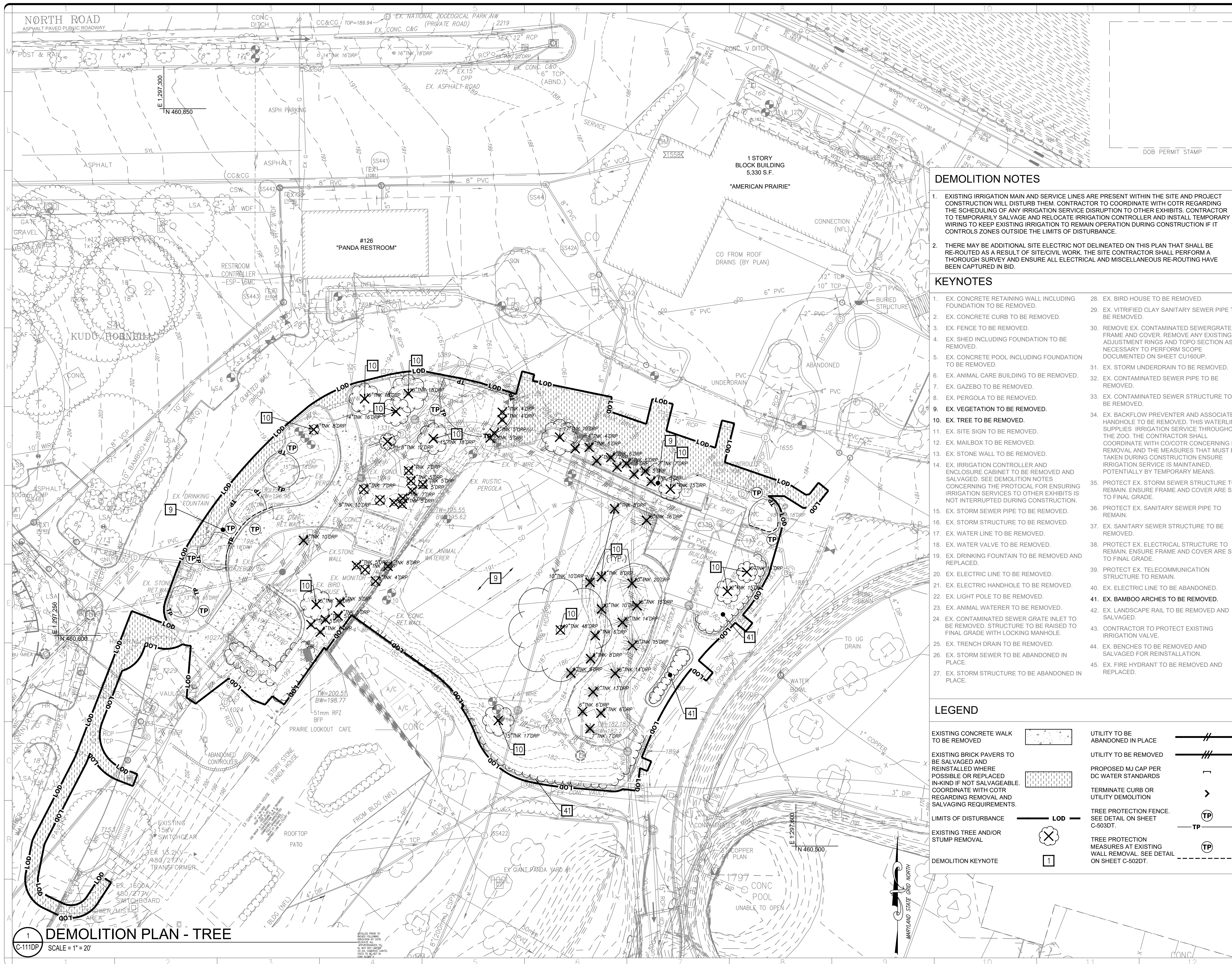


DATE 04/02/2026	REVISION ISSUED FOR BID
DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY

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DRAWING TITLE	DEMOLITION PLAN - SITE
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 1 10 DP

3/19/2026 11:19:18 AM
 XXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT



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KEYNOTES

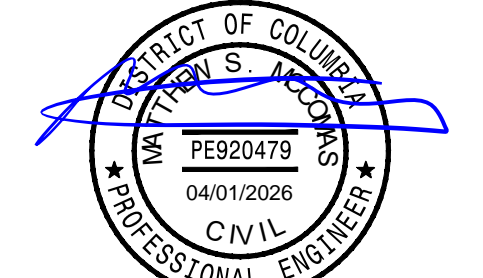
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- EX. WATER VALVE TO BE REMOVED.
- EX. ELECTRIC LINE TO BE REMOVED.
- EX. ELECTRIC HANDHOLE TO BE REMOVED.
- EX. LIGHT POLE TO BE REMOVED.
- EX. ANIMAL WATERER TO BE REMOVED.
- EX. CONTAMINATED SEWER GRATE INLET TO BE REMOVED. STRUCTURE TO BE RAISED TO FINAL GRADE WITH LOCKING MANHOLE.
- EX. TRENCH DRAIN TO BE REMOVED.
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- EX. STORM UNDERDRAIN TO BE REMOVED.
- EX. CONTAMINATED SEWER PIPE TO BE REMOVED.
- EX. CONTAMINATED SEWER STRUCTURE TO BE REMOVED.
- EX. BACKFLOW PREVENTER AND ASSOCIATED HANDHOLE TO BE REMOVED. THIS WATERLINE SUPPLIES IRRIGATION SERVICE THROUGHOUT THE ZOO. THE CONTRACTOR SHALL COORDINATE WITH COTR CONCERNING ITS REMOVAL AND THE MEASURES THAT MUST BE TAKEN DURING CONSTRUCTION ENSURE IRRIGATION SERVICE IS MAINTAINED. POTENTIALLY BY TEMPORARY MEANS.
- PROTECT EX. STORM SEWER STRUCTURE TO REMAIN. ENSURE FRAME AND COVER ARE SET TO FINAL GRADE.
- PROTECT EX. SANITARY SEWER PIPE TO REMAIN.
- EX. SANITARY SEWER STRUCTURE TO BE REMOVED.
- PROTECT EX. ELECTRICAL STRUCTURE TO REMAIN. ENSURE FRAME AND COVER ARE SET TO FINAL GRADE.
- PROTECT EX. TELECOMMUNICATION STRUCTURE TO REMAIN.
- EX. ELECTRIC LINE TO BE ABANDONED.
- EX. BAMBOO ARCHES TO BE REMOVED.
- EX. LANDSCAPE RAIL TO BE REMOVED AND SALVAGED.
- CONTRACTOR TO PROTECT EXISTING IRRIGATION VALVE.
- EX. BENCHES TO BE REMOVED AND SALVAGED FOR REINSTALLATION.
- EX. FIRE HYDRANT TO BE REMOVED AND REPLACED.

LEGEND

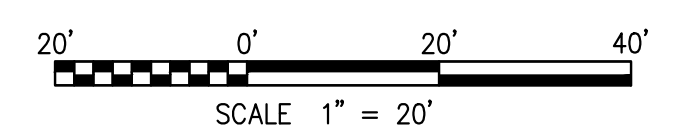
EXISTING CONCRETE WALK TO BE REMOVED		UTILITY TO BE ABANDONED IN PLACE	
EXISTING BRICK PAVERS TO BE SALVAGED AND REINSTALLED WHERE POSSIBLE OR REPLACED IN-KIND IF NOT SALVAGEABLE. COORDINATE WITH COTR REGARDING REMOVAL AND SALVAGING REQUIREMENTS.		UTILITY TO BE REMOVED	
LIMITS OF DISTURBANCE		PROPOSED MJ CAP PER DC WATER STANDARDS	
EXISTING TREE AND/OR STUMP REMOVAL		TERMINATE CURB OR UTILITY DEMOLITION	
DEMOLITION KEYNOTE		TREE PROTECTION FENCE. SEE DETAIL ON SHEET C-503DT.	
		TREE PROTECTION MEASURES AT EXISTING WALL REMOVAL. SEE DETAIL ON SHEET C-502DT.	

ALF
CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID

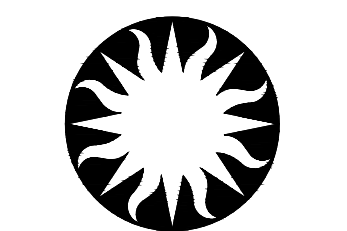


KEY PLAN



GRAPHIC SCALE(S)

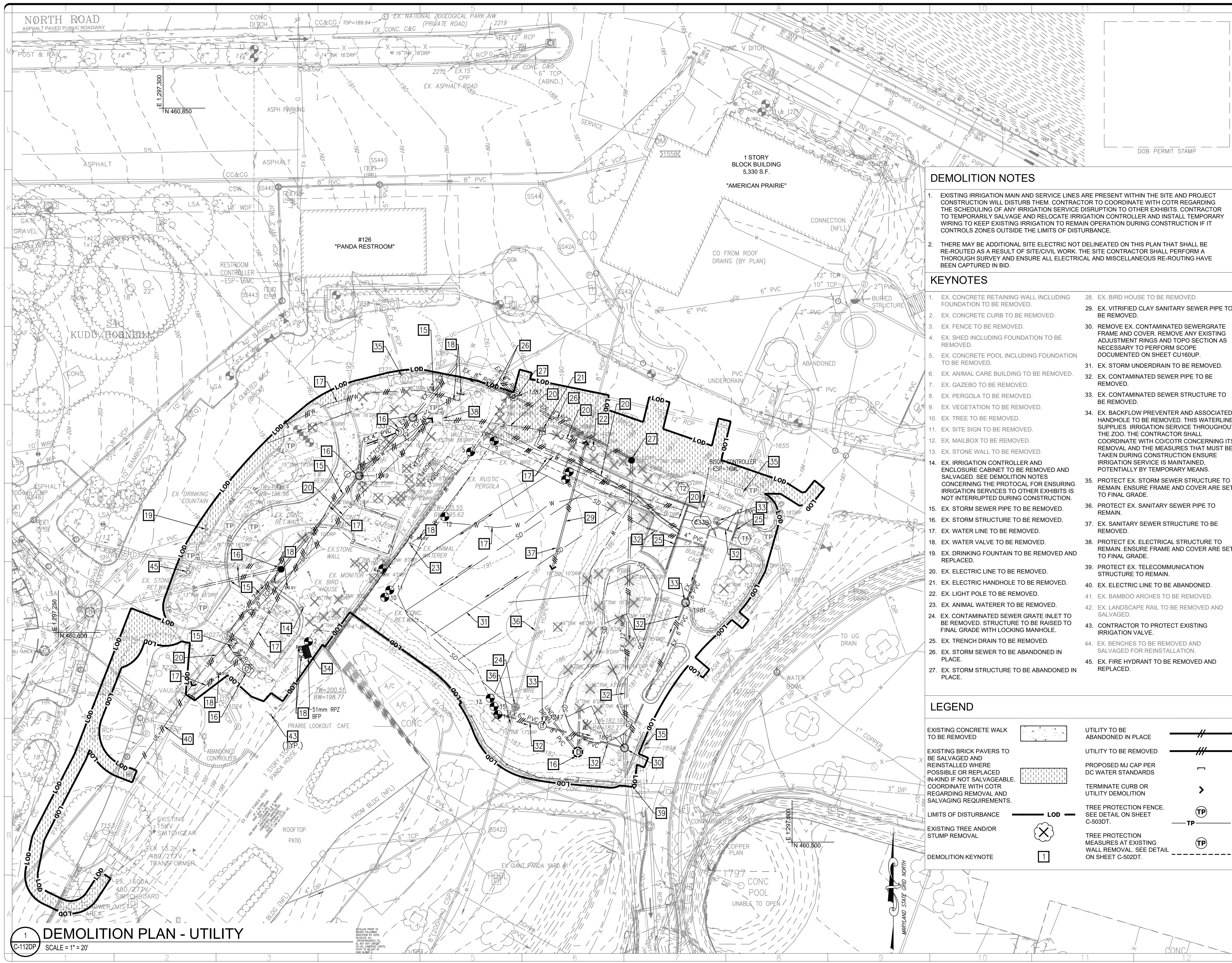
DATE 04/02/2026	ISSUED FOR BID
PROJECT # DATE	PROJECT DESCRIPTION



Smithsonian Institution

Smithsonian OPDC
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)						
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008						
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)						
OPDC PROJECT NUMBER	2533105						
A/L PROJECT NUMBER	00100084						
DRAWING TITLE	DEMOLITION PLAN - TREE						
WORKING STAFF	<table border="1"> <tr> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
ST	KK	SM					
DESIGNED BY	DRAWN BY	CHECKED BY					
SHEET NO.	C 111 DP						
OF							



DEMOLITION NOTES

- EXISTING IRRIGATION MAIN AND SERVICE LINES ARE PRESENT WITHIN THE SITE AND PROJECT CONSTRUCTION WILL DISTURB THEM. CONTRACTOR TO COORDINATE WITH COTR REGARDING THE SCHEDULING OF ANY IRRIGATION SERVICE DISRUPTION TO OTHER EXHIBITS. CONTRACTOR TO TEMPORARILY SALVAGE AND RELOCATE IRRIGATION CONTROLLER AND INSTALL TEMPORARY WIRING TO KEEP EXISTING IRRIGATION TO REMAIN OPERATION DURING CONSTRUCTION IF IT CONTROLS ZONES OUTSIDE THE LIMITS OF DISTURBANCE.
- THERE MAY BE ADDITIONAL SITE ELECTRIC NOT DELINEATED ON THIS PLAN THAT SHALL BE RE-ROUTED AS A RESULT OF SITE/CIVIL WORK. THE SITE CONTRACTOR SHALL PERFORM A THOROUGH SURVEY AND ENSURE ALL ELECTRICAL AND MISCELLANEOUS RE-ROUTING HAVE BEEN CAPTURED IN BID.

KEYNOTES

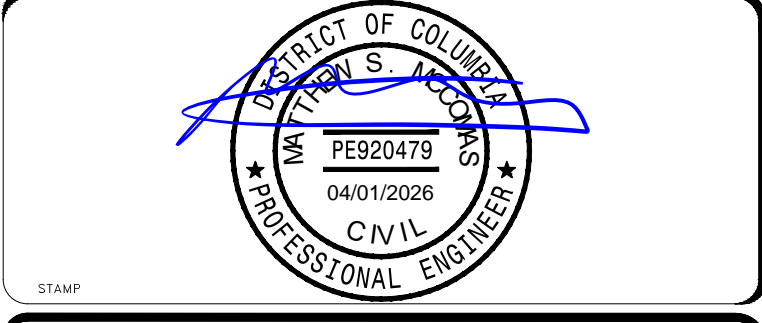
- EX. CONCRETE RETAINING WALL INCLUDING FOUNDATION TO BE REMOVED.
- EX. CONCRETE CURB TO BE REMOVED.
- EX. FENCE TO BE REMOVED.
- EX. SHED INCLUDING FOUNDATION TO BE REMOVED.
- EX. CONCRETE POOL INCLUDING FOUNDATION TO BE REMOVED.
- EX. ANIMAL CARE BUILDING TO BE REMOVED.
- EX. GAZEBO TO BE REMOVED.
- EX. PERGOLA TO BE REMOVED.
- EX. VEGETATION TO BE REMOVED.
- EX. TREE TO BE REMOVED.
- EX. SITE SIGN TO BE REMOVED.
- EX. MAILBOX TO BE REMOVED.
- EX. STONE WALL TO BE REMOVED.
- EX. IRRIGATION CONTROLLER AND ENCLOSURE CABINET TO BE REMOVED AND SALVAGED. SEE DEMOLITION NOTES CONCERNING THE PROTOCOL FOR ENSURING IRRIGATION SERVICES TO OTHER EXHIBITS IS NOT INTERRUPTED DURING CONSTRUCTION.
- EX. STORM SEWER PIPE TO BE REMOVED.
- EX. STORM STRUCTURE TO BE REMOVED.
- EX. WATER LINE TO BE REMOVED.
- EX. WATER VALVE TO BE REMOVED.
- EX. ELECTRIC LINE TO BE REMOVED.
- EX. ELECTRIC HANDHOLE TO BE REMOVED.
- EX. LIGHT POLE TO BE REMOVED.
- EX. ANIMAL WATERER TO BE REMOVED.
- EX. CONTAMINATED SEWER GRATE INLET TO BE REMOVED. STRUCTURE TO BE RAISED TO FINAL GRADE WITH LOCKING MANHOLE.
- EX. TRENCH DRAIN TO BE REMOVED.
- EX. STORM SEWER TO BE ABANDONED IN PLACE.
- EX. STORM STRUCTURE TO BE ABANDONED IN PLACE.
- EX. BIRD HOUSE TO BE REMOVED.
- EX. VITRIFIED CLAY SANITARY SEWER PIPE TO BE REMOVED.
- REMOVE EX. CONTAMINATED SEWERGRATE FRAME AND COVER. REMOVE ANY EXISTING ADJUSTMENT RINGS AND TOP SECTION AS NECESSARY TO PERFORM SCOPE DOCUMENTED ON SHEET CU160UP.
- EX. STORM UNDERDRAIN TO BE REMOVED.
- EX. CONTAMINATED SEWER PIPE TO BE REMOVED.
- EX. CONTAMINATED SEWER STRUCTURE TO BE REMOVED.
- EX. BACKFLOW PREVENTER AND ASSOCIATED HANDHOLE TO BE REMOVED. THIS WATERLINE SUPPLIES IRRIGATION SERVICE THROUGHOUT THE ZOO. THE CONTRACTOR SHALL COORDINATE WITH COTR CONCERNING ITS REMOVAL AND THE MEASURES THAT MUST BE TAKEN DURING CONSTRUCTION ENSURE IRRIGATION SERVICE IS MAINTAINED. POTENTIALLY BY TEMPORARY MEANS.
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- PROTECT EX. ELECTRICAL STRUCTURE TO REMAIN. ENSURE FRAME AND COVER ARE SET TO FINAL GRADE.
- PROTECT EX. TELECOMMUNICATION STRUCTURE TO REMAIN.
- EX. ELECTRIC LINE TO BE ABANDONED.
- EX. BAMBOO ARCHES TO BE REMOVED.
- EX. LANDSCAPE RAIL TO BE REMOVED AND SALVAGED.
- CONTRACTOR TO PROTECT EXISTING IRRIGATION VALVE.
- EX. BENCHES TO BE REMOVED AND SALVAGED FOR REINSTALLATION.
- EX. FIRE HYDRANT TO BE REMOVED AND REPLACED.

LEGEND

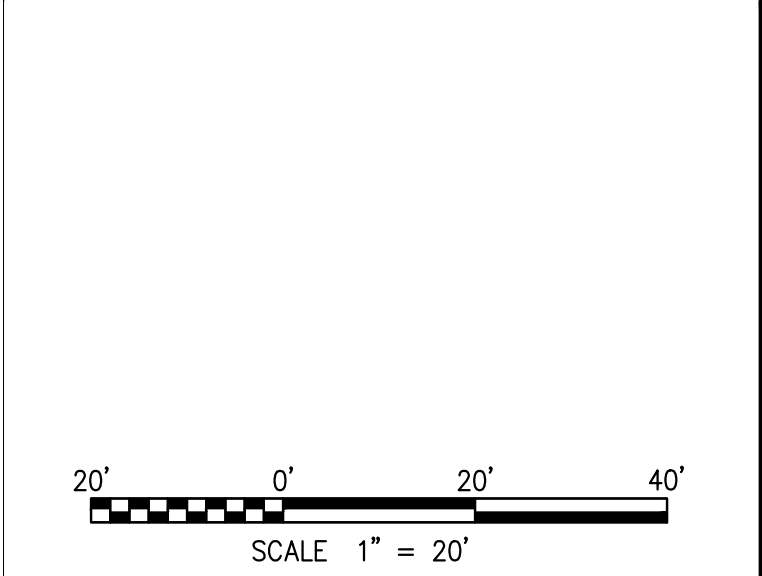
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DEMOLITION KEYNOTE		TREE PROTECTION FENCE. SEE DETAIL ON SHEET C-503DT.	
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ALF
CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



KEY PLAN



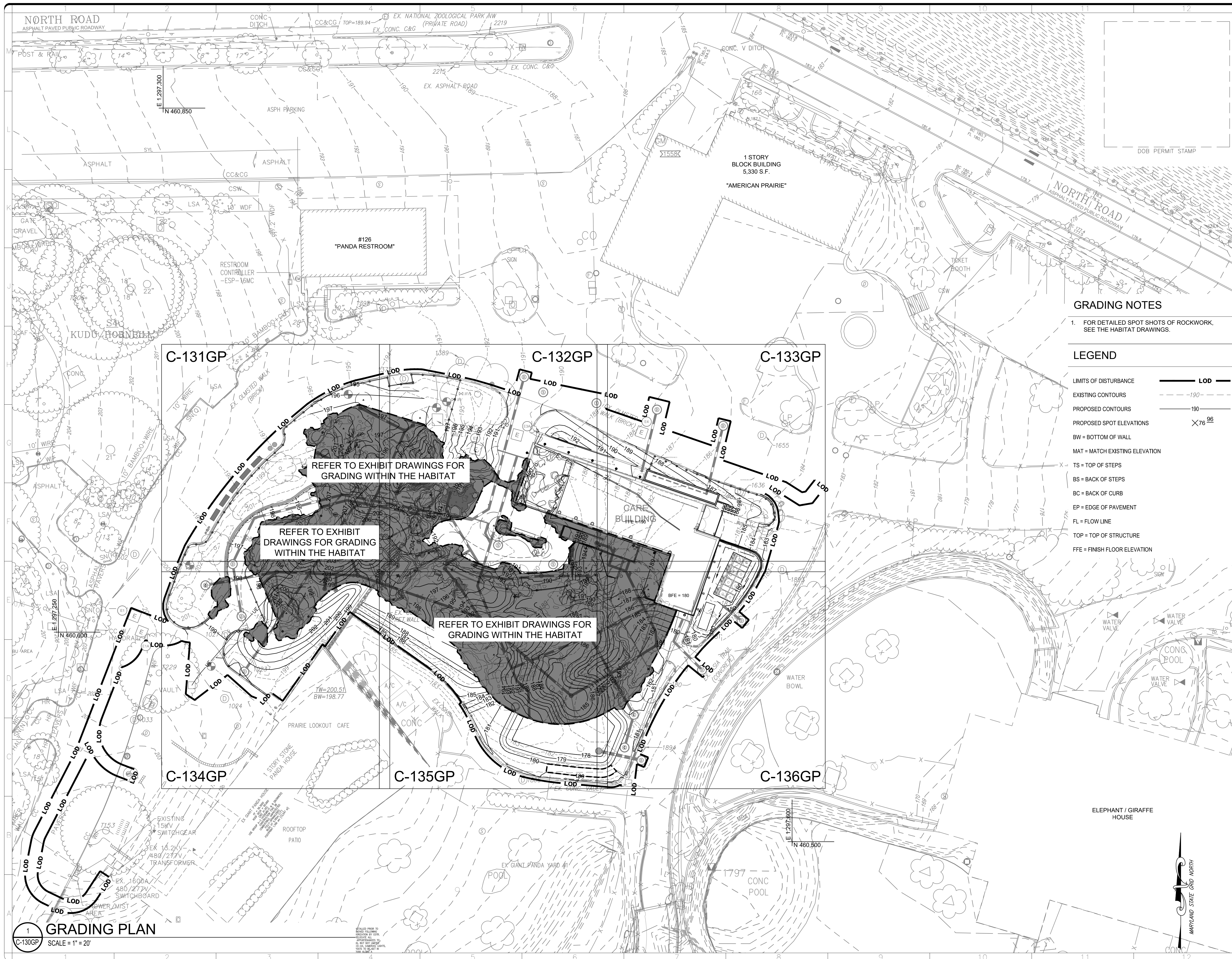
DATE 04/02/2026	ISSUED FOR BID
PROJECT # / DATE	PROJECT DESCRIPTION

Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	DEMOLITION PLAN - UTILITY
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 112 DP

3/19/2026 11:18:18 AM
XXXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT



ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID

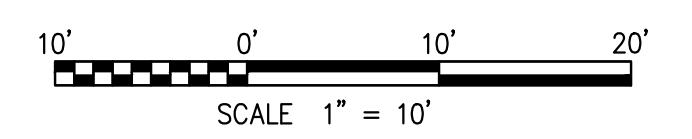


GRADING NOTES

- FOR DETAILED SPOT SHOTS OF ROCKWORK, SEE THE HABITAT DRAWINGS.

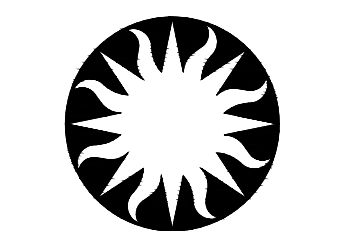
LEGEND

- LIMITS OF DISTURBANCE ——— LOD ———
- EXISTING CONTOURS - - - - - 190 - - - - -
- PROPOSED CONTOURS ——— 190 ———
- PROPOSED SPOT ELEVATIONS X 76 96
- BW = BOTTOM OF WALL
- MAT = MATCH EXISTING ELEVATION
- TS = TOP OF STEPS
- BS = BACK OF STEPS
- BC = BACK OF CURB
- EP = EDGE OF PAVEMENT
- FL = FLOW LINE
- TOP = TOP OF STRUCTURE
- FFE = FINISH FLOOR ELEVATION



GRAPHIC SCALE(S)

DATE 04/02/2026	ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

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PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	GRADING PLAN
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 130 GP
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

3/12/2026 11:18:18 AM
XXXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

1 GRADING PLAN
SCALE = 1" = 20'



GRADING NOTES

1. FOR DETAILED SPOT SHOTS OF ROCKWORK, SEE THE HABITAT DRAWINGS.

LEGEND

LIMITS OF DISTURBANCE	LOD	TS = TOP OF STEPS
EXISTING CONTOURS	- - - - -190 - - - - -	BS = BACK OF STEPS
PROPOSED CONTOURS	- - - - -190 - - - - -	BC = BACK OF CURB
GRASS SWALE	- - - - -	EP = EDGE OF PAVEMENT
PROPOSED SPOT ELEVATIONS	X 76 96	FL = FLOW LINE
BW = BOTTOM OF WALL		TOP = TOP OF STRUCTURE
MAT = MATCH EXISTING ELEVATION		FFE = FINISH FLOOR ELEVATION

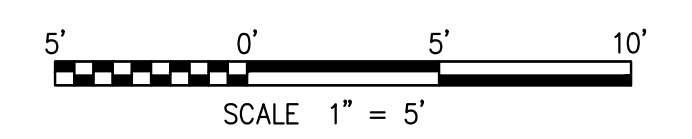
ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID

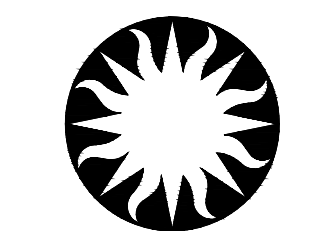


KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	SUBMISSION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

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PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)						
OPDC PROJECT NUMBER	2533105						
A/L PROJECT NUMBER	00100084						
DRAWING TITLE	GRADING PLAN						
WORKING STAFF	<table border="1"> <tr> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
ST	KK	SM					
DESIGNED BY	DRAWN BY	CHECKED BY					
SHEET NO.	C 131 GP						
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						

3/13/2026 11:19:19 AM
XX-XXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

1 GRADING PLAN
C-131GP SCALE = 1" = 20'





LEGEND

LIMITS OF DISTURBANCE		LOD	TS = TOP OF STEPS
EXISTING CONTOURS		-190-	BS = BACK OF STEPS
PROPOSED CONTOURS		-190-	BC = BACK OF CURB
GRASS SWALE			EP = EDGE OF PAVEMENT
PROPOSED SPOT ELEVATIONS		X76 96	FL = FLOW LINE
BW = BOTTOM OF WALL			TOP = TOP OF STRUCTURE
MAT = MATCH EXISTING ELEVATION			FFE = FINISH FLOOR ELEVATION

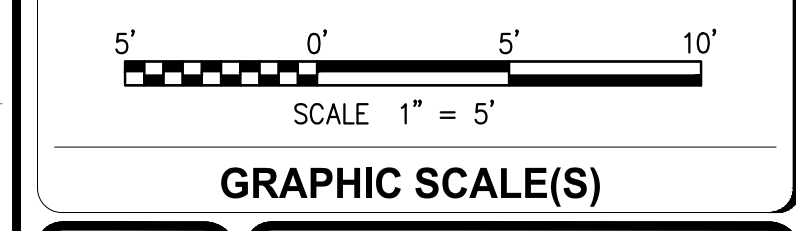
ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID



KEY PLAN



DATE 04/02/2026	REVISION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/L PROJECT NUMBER	00100084
DRAWING TITLE	GRADING PLAN
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 132 GP
DISCIPLINE	TYPE
SEQUENCE	DRAWING TYPE

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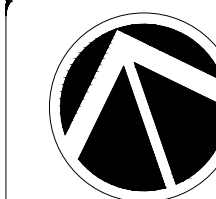
MARYLAND STATE GRID NORTH

ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

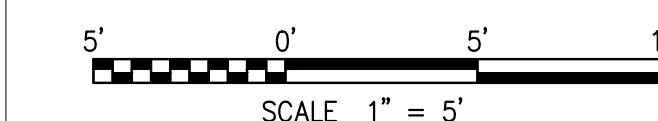
ISSUED FOR BID

STAMP



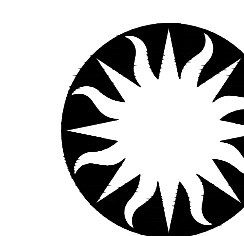
TRUE NORTH

KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	SUBMISSION ISSUED FOR BID
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Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

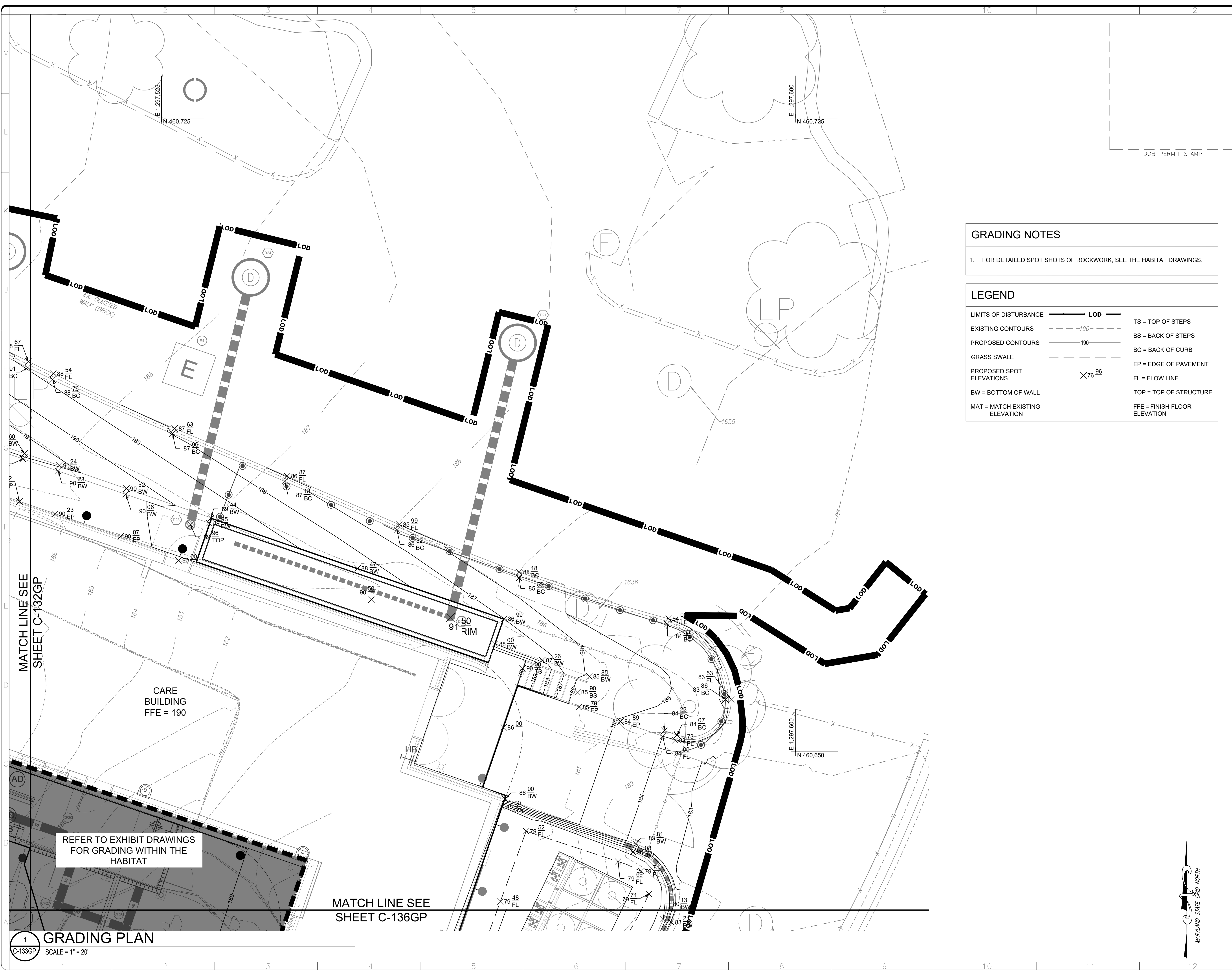
BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)		
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008		
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)		
OPDC PROJECT NUMBER	2533105		
A/E PROJECT NUMBER	00100084		
DRAWING TITLE	GRADING PLAN		
WORKING STAFF	ST	KK	SM
DESIGNED BY	DRAWN BY	CHECKED BY	
SHEET NO.	C	133	GP
OF			
	DISCIPLINE	TYPE	SEQUENCE
			DRAWING TYPE

GRADING NOTES

- FOR DETAILED SPOT SHOTS OF ROCKWORK, SEE THE HABITAT DRAWINGS.

LEGEND

LIMITS OF DISTURBANCE	Lod	TS = TOP OF STEPS
EXISTING CONTOURS	-190-	BS = BACK OF STEPS
PROPOSED CONTOURS	190	BC = BACK OF CURB
GRASS SWALE	- - -	EP = EDGE OF PAVEMENT
PROPOSED SPOT ELEVATIONS	X76 ⁹⁶	FL = FLOW LINE
BW = BOTTOM OF WALL		TOP = TOP OF STRUCTURE
MAT = MATCH EXISTING ELEVATION		FFE = FINISH FLOOR ELEVATION



MATCH LINE SEE SHEET C-132GP

REFER TO EXHIBIT DRAWINGS FOR GRADING WITHIN THE HABITAT

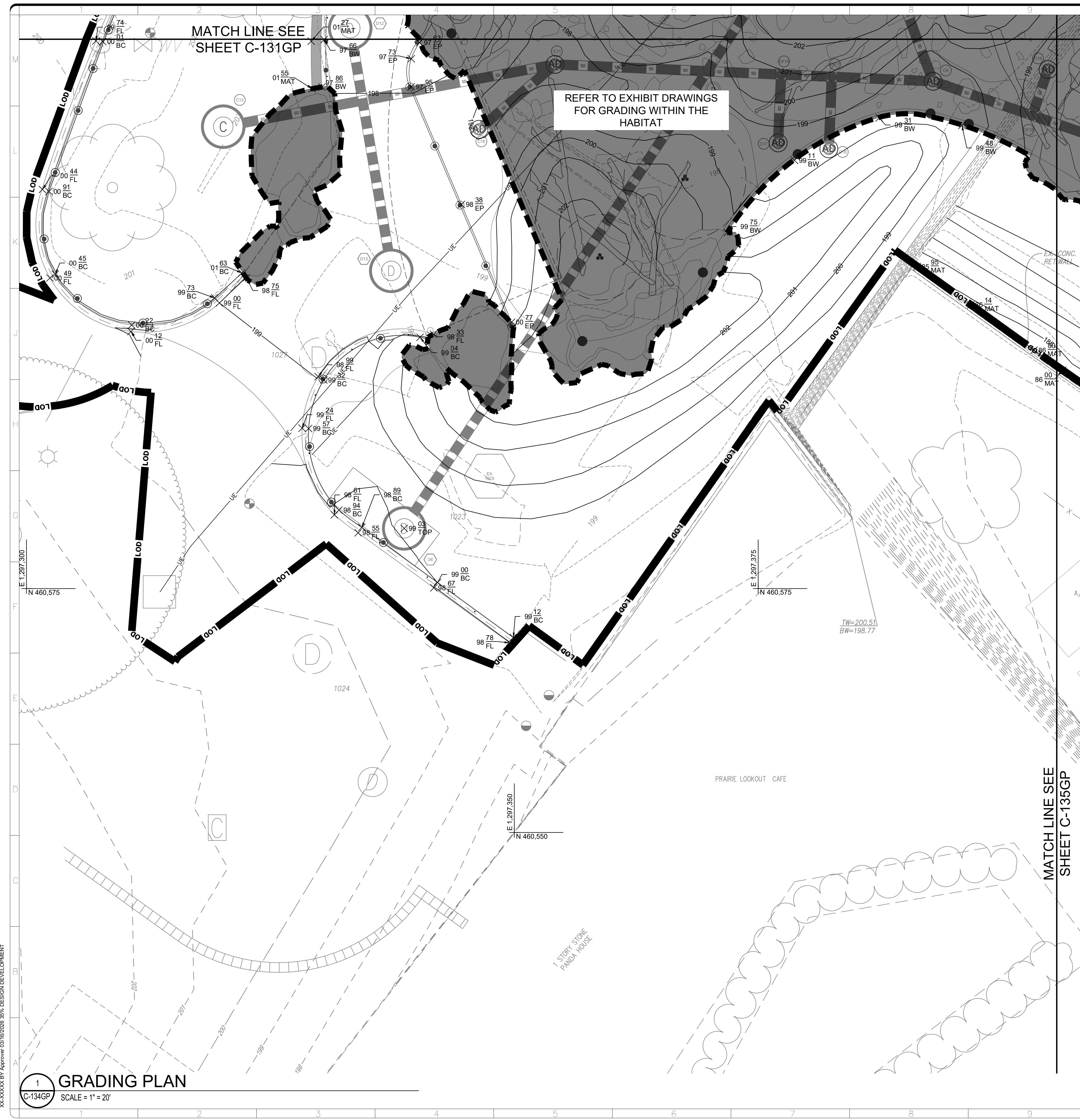
MATCH LINE SEE SHEET C-136GP

1 GRADING PLAN

SCALE = 1" = 20'

3/13/2026 11:10:15 AM
XXXXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

MARYLAND STATE GRID NORTH



MATCH LINE SEE SHEET C-131GP

REFER TO EXHIBIT DRAWINGS FOR GRADING WITHIN THE HABITAT

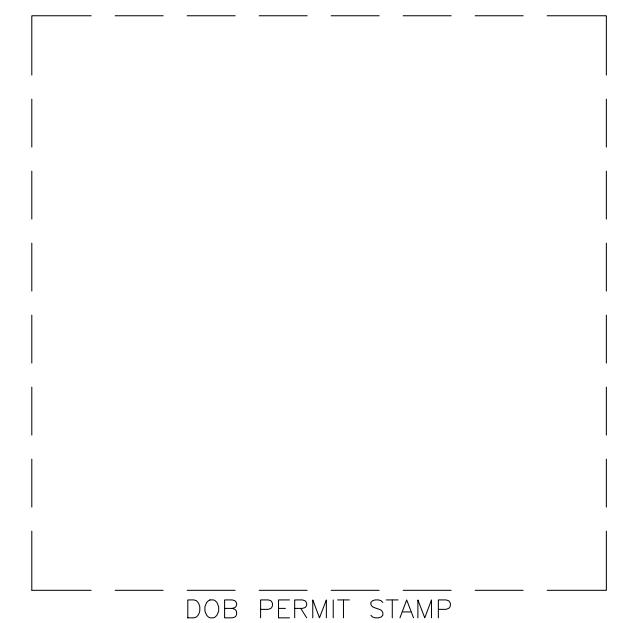
MATCH LINE SEE SHEET C-135GP

GRADING NOTES

- FOR DETAILED SPOT SHOTS OF ROCKWORK, SEE THE HABITAT DRAWINGS.

LEGEND

LIMITS OF DISTURBANCE	LOD	TS = TOP OF STEPS
EXISTING CONTOURS	-190-	BS = BACK OF STEPS
PROPOSED CONTOURS	-190	BC = BACK OF CURB
GRASS SWALE	- - -	EP = EDGE OF PAVEMENT
PROPOSED SPOT ELEVATIONS	X 76 ⁹⁶	FL = FLOW LINE
BW = BOTTOM OF WALL		TOP = TOP OF STRUCTURE
MAT = MATCH EXISTING ELEVATION		FFE = FINISH FLOOR ELEVATION

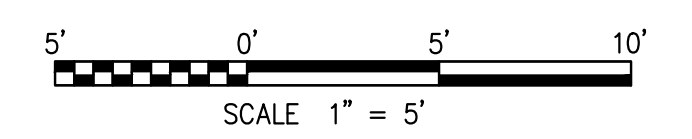


ALF
CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID



KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	SUBMISSION ISSUED FOR BID
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Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	GRADING PLAN
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 134 GP
DISCIPLINE	TYPE
SEQUENCE	DRAWING TYPE

3/12/2026 11:19:19 AM
XX-XXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

1 GRADING PLAN
SCALE = 1" = 20'

MARYLAND STATE GRID NORTH



MATCH LINE SEE SHEET C-132GP

REFER TO EXHIBIT DRAWINGS FOR GRADING WITHIN THE HABITAT

MATCH LINE SEE SHEET C-136GP

MATCH LINE SEE SHEET C-134GP

GRADING NOTES
 1. FOR DETAILED SPOT SHOTS OF ROCKWORK, SEE THE HABITAT DRAWINGS.

LEGEND

LIMITS OF DISTURBANCE	LOD	TS = TOP OF STEPS
EXISTING CONTOURS	-190-	BS = BACK OF STEPS
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PROPOSED SPOT ELEVATIONS	X 76 96	FL = FLOW LINE
BW = BOTTOM OF WALL		TOP = TOP OF STRUCTURE
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DOB PERMIT STAMP

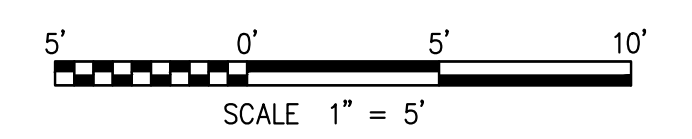
ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID

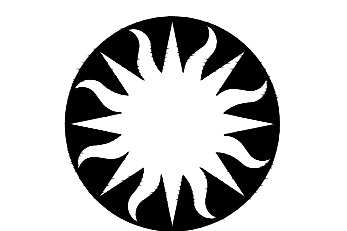


KEY PLAN



GRAPHIC SCALE(S)

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Smithsonian Institution

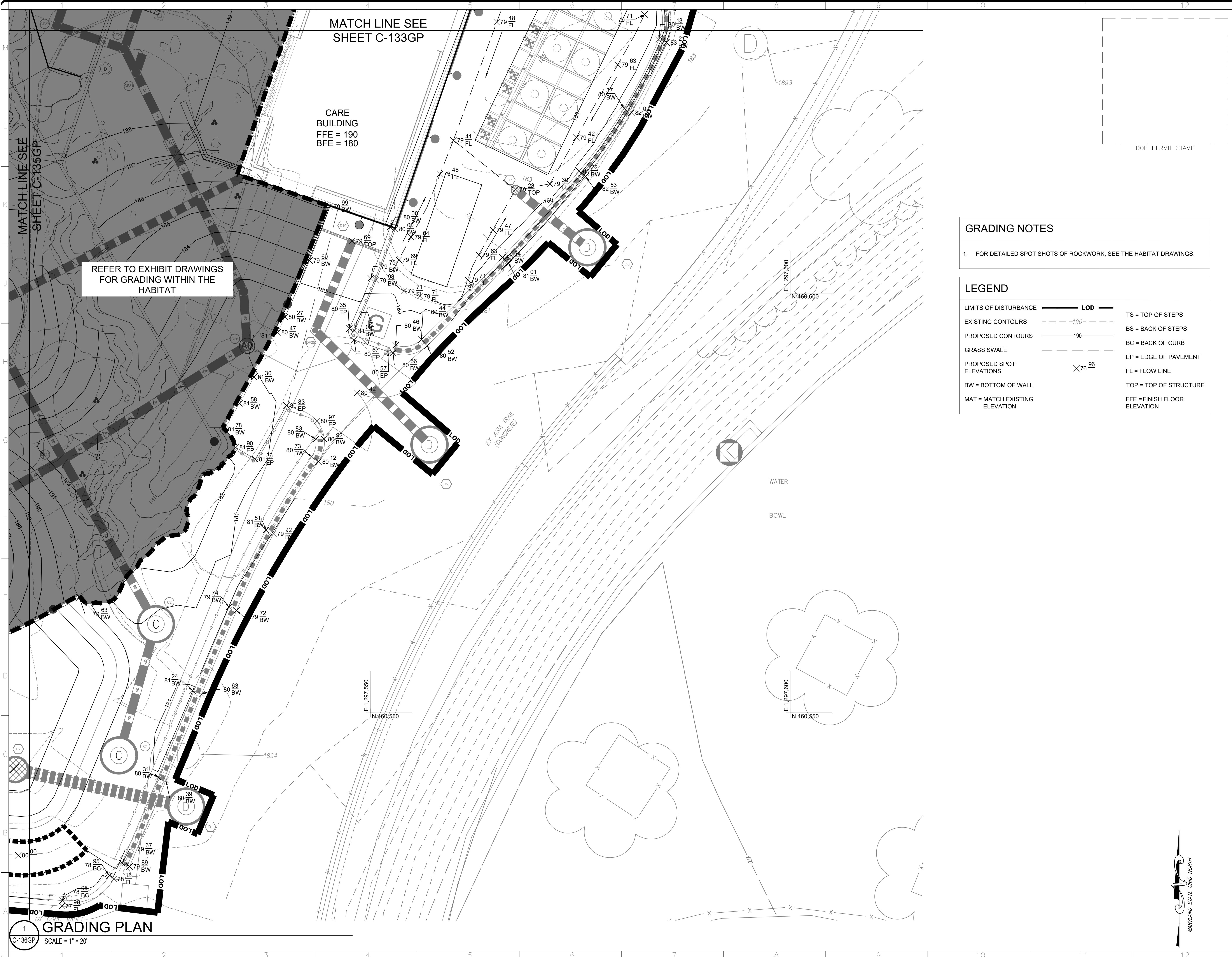
Smithsonian OPDC
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)												
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008												
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OPDC PROJECT NUMBER	2533105												
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DRAWING TITLE	GRADING PLAN												
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DESIGNED BY	ST	KK	SM										
DRAWN BY													
CHECKED BY													
SHEET NO.	C 135 GP												
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE												

3/12/2026 11:19:19 AM
 XXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

1 GRADING PLAN
 SCALE = 1" = 20'

MARYLAND STATE GRID NORTH



3/13/2026 11:18:18 AM
 XXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

1 GRADING PLAN
 SCALE = 1" = 20'
 C-136GP

MATCH LINE SEE
 SHEET C-135GP

CARE
 BUILDING
 FFE = 190
 BFE = 180

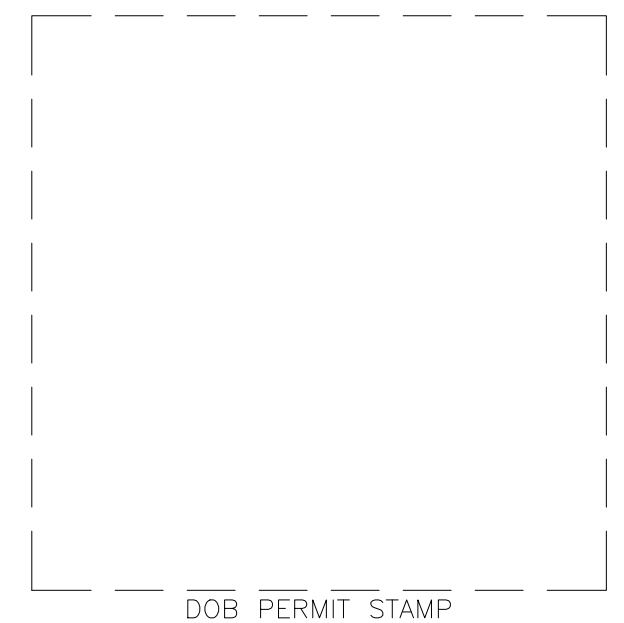
REFER TO EXHIBIT DRAWINGS
 FOR GRADING WITHIN THE
 HABITAT

GRADING NOTES

- FOR DETAILED SPOT SHOTS OF ROCKWORK, SEE THE HABITAT DRAWINGS.

LEGEND

LIMITS OF DISTURBANCE	LOD	TS = TOP OF STEPS
EXISTING CONTOURS	- - - 190 - - -	BS = BACK OF STEPS
PROPOSED CONTOURS	— 190 —	BC = BACK OF CURB
GRASS SWALE	- - - - -	EP = EDGE OF PAVEMENT
PROPOSED SPOT ELEVATIONS	X 76.96	FL = FLOW LINE
BW = BOTTOM OF WALL		TOP = TOP OF STRUCTURE
MAT = MATCH EXISTING ELEVATION		FFE = FINISH FLOOR ELEVATION

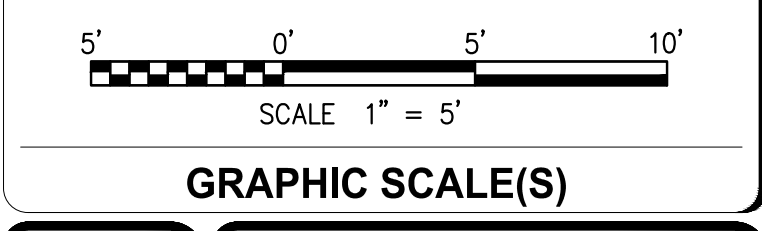


ALF
CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



KEY PLAN



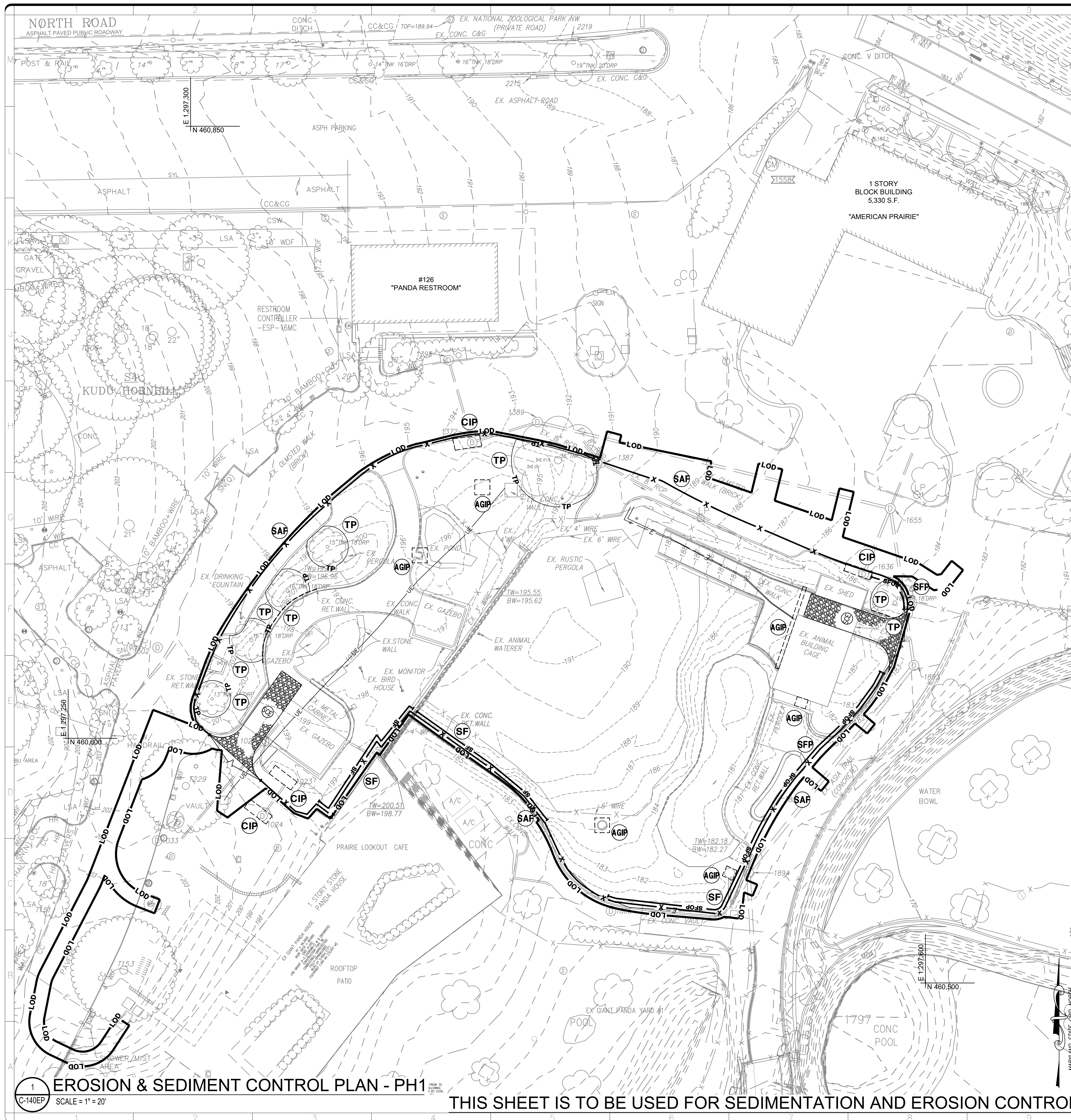
DATE 04/02/2026	REVISION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



Smithsonian Institution
 Smithsonian OPDC
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)		
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008		
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)		
OPDC PROJECT NUMBER	2533105		
A/E PROJECT NUMBER	00100084		
DRAWING TITLE	GRADING PLAN		
WORKING STAFF	ST	KK	SM
	DESIGNED BY	DRAWN BY	CHECKED BY
SHEET NO.	C 136 GP		
OF	DISCIPLINE	TYPE	SEQUENCE





EROSION LEGEND PHASE 1

LIMITS OF DISTURBANCE	— LOD —	
SILT FENCE	— SF —	(SF)
SILT FENCE ON PAVEMENT	— SFOP —	(SFOP)
SAFETY FENCE	— X —	(SAF)
TREE PROTECTION	— TP —	(TP)
CURB INLET PROTECTION		(CIP)
AT GRADE INLET PROTECTION		(AGIP)
ROOT PRUNING TREE PROTECTION ALONG EXISTING WALL	---	(TP)

DOB PERMIT STAMP

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.

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 BUILDINGS 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).

CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES AS INDICATED ON EROSION AND SEDIMENT CONTROL PLANS.
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 UTILITY PLAN.
5. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
6. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

LAND GRADING NOTES:

1. INSTALL PERIMETER CONTROLS AND OTHER EROSION CONTROL MEASURES BEFORE EXPOSING CUT AND FILL SLOPES.
2. COMPLETE SITE CLEARING AND GRADING IN COMPLIANCE WITH THE CONSTRUCTION SEQUENCE IDENTIFIED ON THE ESC PLAN.
3. PROVIDE EROSION AND SEDIMENT CONTROLS ON ALL TEMPORARY FILL PILES GENERATED DURING CONSTRUCTION.
4. ENSURE THAT ALL SUPPLEMENTAL FILL CREATED DURING THE GRADING PROCESS IS DISPOSED OF PROPERLY.
5. IN CASE WHERE FILL SLOPES OR SOIL PILES CANNOT BE STABILIZED BEFORE THE CLOSE OF THE WORK DAY, UTILIZE TEMPORARY EROSION CONTROL MEASURES SUCH AS PLASTIC SHEETING TO ENSURE THAT SOIL IS NOT EXPOSED.
6. CONFIRM THAT ALL FILLS ARE COMPACTED IN COMPLIANCE WITH THE STANDARD PRESCRIBED IN THE SITE PLAN.
7. REMOVE EROSION CONTROLS ONCE SLOPES HAVE BEEN STABILIZED PERMANENTLY.
8. IMMEDIATELY REPLACE ANY FAILED DIVERSION MEASURES, AND IMMEDIATELY REGRADE AND STABILIZE ANY PORTIONS OF THE SLOPES THAT HAVE BEGUN TO FORM RILLS OR GULL. ENSURE THAT STOCKPILES ARE STABILIZED WITH VEGETATION OR WITH ANOTHER TEMPORARY COVER THROUGHOUT THE CONSTRUCTION PROCESS. MAINTAIN ALL DIVERSION MEASURES PER THE DETAILS OUTLINED IN CHAPTER 4 CONVEYANCE.

EROSION AND SEDIMENT CONTROL NARRATIVE:

EROSION AND SEDIMENT CONTROL WILL BE ACHIEVED THROUGH THE USE OF SILT FENCE, SILT FENCE ON PAVEMENT, STABILIZED CONSTRUCTION ENTRANCE, AND INLET PROTECTION. THE CONSTRUCTION AREA WILL HAVE SAFETY FENCE FOR CONSTRUCTION PROTECTION. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE IMPLEMENTED PRIOR TO DEMOLITION TO ENSURE ADEQUATE PROTECTION DURING DEMOLITION AND REMOVAL OF WASTE MATERIALS. ALL DEMO MATERIALS WILL BE TAKEN TO AN OFF-SITE DESIGNATION DUMPING AREA VIA DUMP TRUCKS OR DUMPSTERS.

CONSTRUCTION AND STABILIZATION SCHEDULE:

1. MOBILIZATION AND ESC INSTALLATION TO BEGIN AUGUST 2026. DEMOLITION AND HEAVY CONSTRUCTION TO OCCUR FEBRUARY 2027. FINISHING WORK AND DEMOLITION TO BE COMPLETED BY OCTOBER 2028. EXACT DATES ARE TO BE SET BY OWNER AND ARE SUBJECT TO CHANGE.
2. FOR FURTHER INFORMATION, PLEASE CALL: GOVERNMENT OF DISTRICT OF COLUMBIA DEPARTMENT OF ENVIRONMENT WATERSHED PROTECTION DIVISION
1200 FIRST STREET, NE
WASHINGTON, DC 20002
TEL NO. (202) 535-2977

DESCRIPTION OF PREDOMINANT SOIL TYPE:

MdD AND MGC MANOR-URBAN LAND COMPLEX

TOTAL SITE AREA:

TOTAL SITE AREA: 39,502 SF / 0.91 AC

TOTAL VOLUME OF CUT

TOTAL AREA OF EXCAVATION: 6,643 SF / 0.15 AC

VOLUME OF CUT: 6,643 SQ.FT. (AREA) X 5 FEET (DEPTH)

27

VOLUME OF CUT: 1,230 cy +/-

TOTAL VOLUME OF CUT /FILL FOR UTILITIES:

TOTAL AREA OF EXCAVATION: 3,882 SF / 0.09 AC

VOLUME OF CUT: 3,882 SQ.FT. (AREA) X 8 FEET (DEPTH)

27

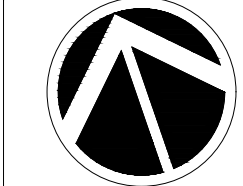
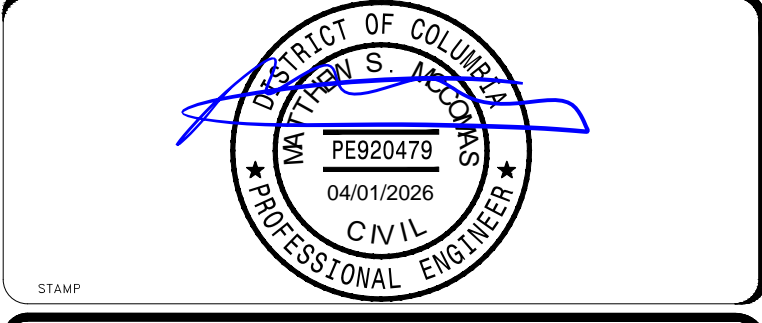
VOLUME OF CUT AND FILL: 1,150 cy +/-

TOTAL AREA OF DISTURBANCE:

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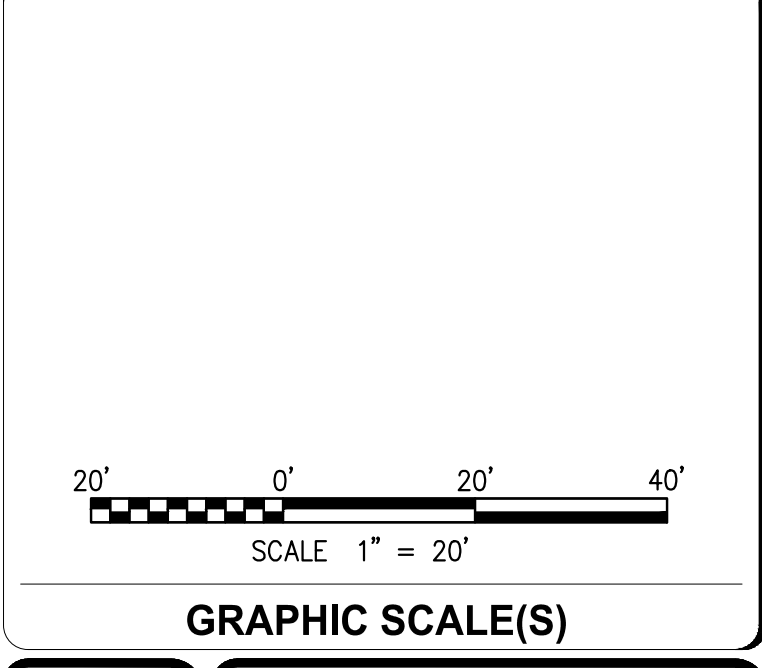
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CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



TRUE NORTH

KEY PLAN



DATE	04/02/2026	REVISION	ISSUED FOR BID
DESIGNER # DATE		REVISION DESCRIPTION	

Smithsonian Institution

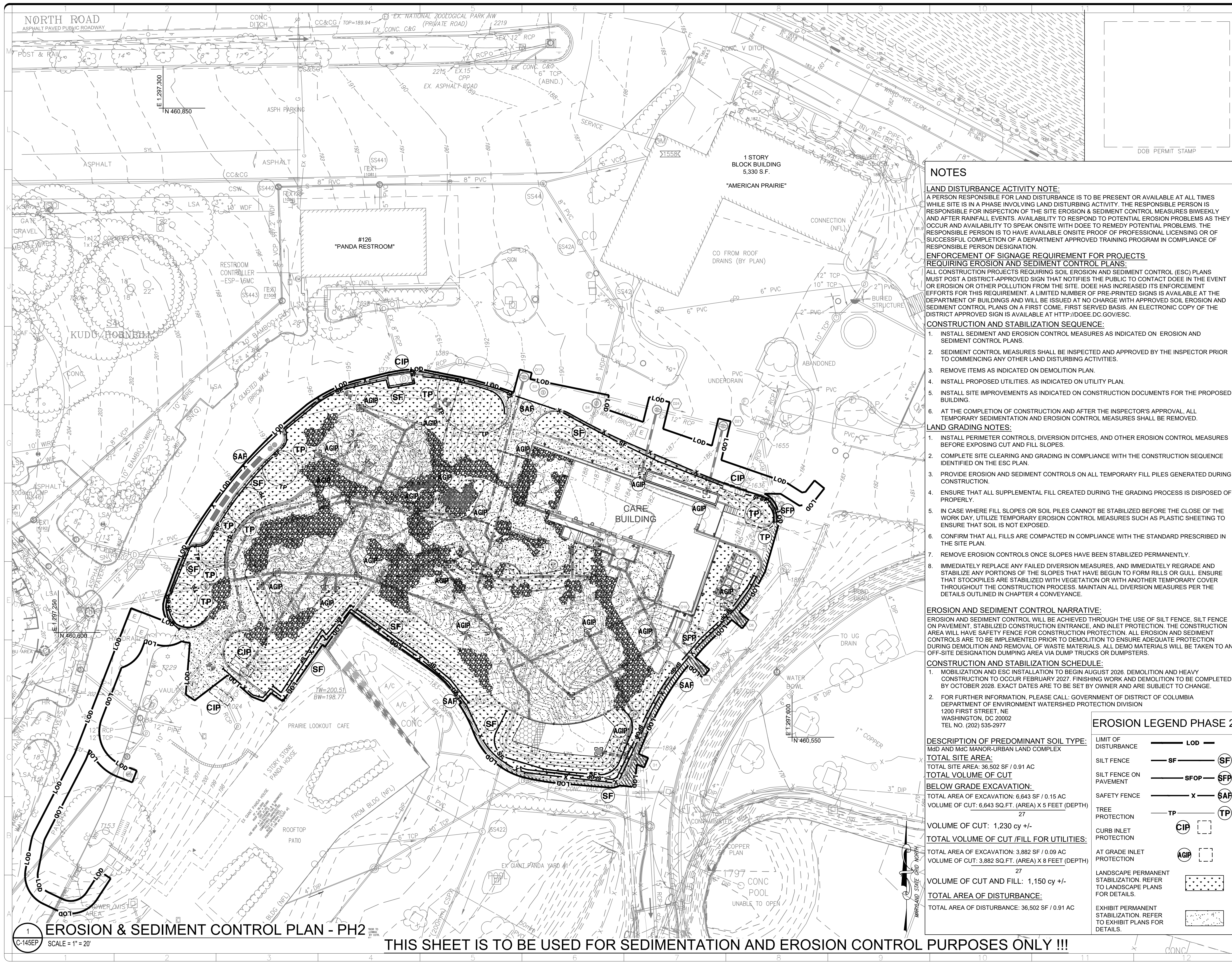
Smithsonian OPDC
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	EROSION & SEDIMENT CONTROL PLAN - PH1
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 140 EP
OF	

3/12/2026 11:18:18 AM
XXXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

1 EROSION & SEDIMENT CONTROL PLAN - PH1
SCALE = 1" = 20'

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



NOTES

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.

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4. INSTALL PROPOSED UTILITIES. AS INDICATED ON UTILITY PLAN.
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LAND GRADING NOTES:

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CONSTRUCTION AND STABILIZATION SCHEDULE:

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 TEL NO. (202) 535-2977

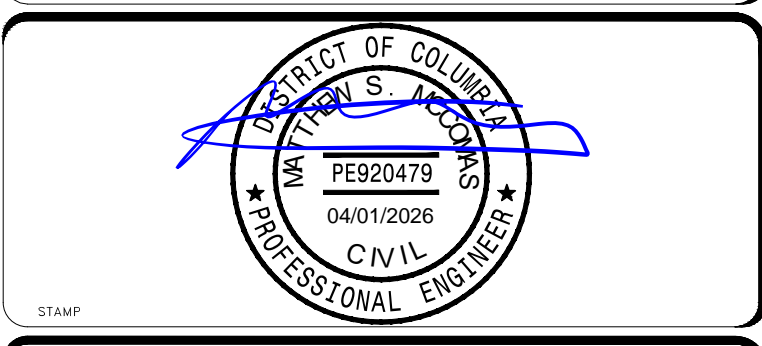
DESCRIPTION OF PREDOMINANT SOIL TYPE:
 MID AND M/C MANOR-URBAN LAND COMPLEX

TOTAL SITE AREA:
 TOTAL SITE AREA: 36,502 SF / 0.91 AC
TOTAL VOLUME OF CUT
BELOW GRADE EXCAVATION:
 TOTAL AREA OF EXCAVATION: 6,643 SF / 0.15 AC
 VOLUME OF CUT: 6,643 SQ.FT. (AREA) X 5 FEET (DEPTH)
 27
VOLUME OF CUT: 1,230 cy +/-
TOTAL VOLUME OF CUT /FILL FOR UTILITIES:
 TOTAL AREA OF EXCAVATION: 3,882 SF / 0.09 AC
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VOLUME OF CUT AND FILL: 1,150 cy +/-
TOTAL AREA OF DISTURBANCE:
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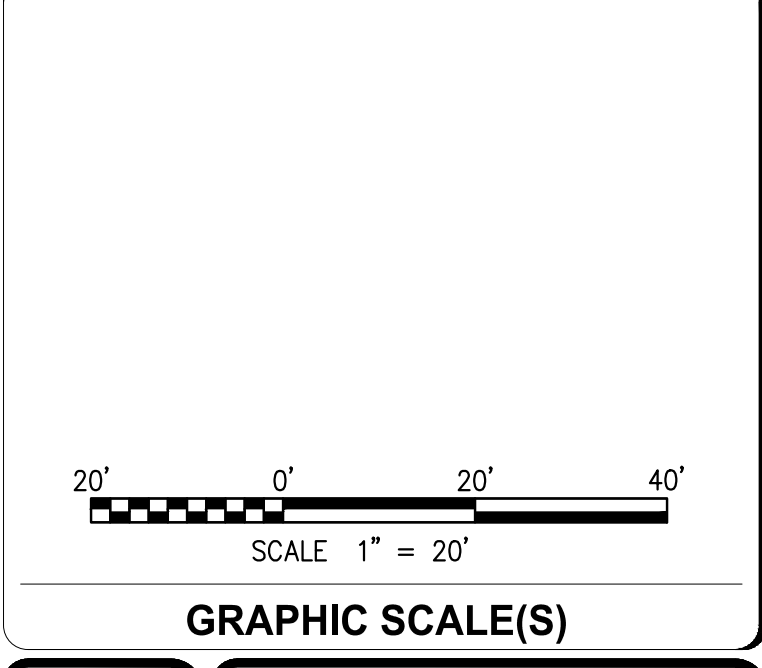
EROSION LEGEND PHASE 2	
LIMIT OF DISTURBANCE	LOD
SILT FENCE	SF
SILT FENCE ON PAVEMENT	SFOP
SAFETY FENCE	SAF
TREE PROTECTION	TP
CURB INLET PROTECTION	CIP
AT GRADE INLET PROTECTION	AGIP
LANDSCAPE PERMANENT STABILIZATION. REFER TO LANDSCAPE PLANS FOR DETAILS.	[Symbol]
EXHIBIT PERMANENT STABILIZATION. REFER TO EXHIBIT PLANS FOR DETAILS.	[Symbol]

ALF
CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID



KEY PLAN



DATE	04/02/2026	ISSUANCE	ISSUED FOR BID
DESIGNER # DATE		APPROVER # DATE	

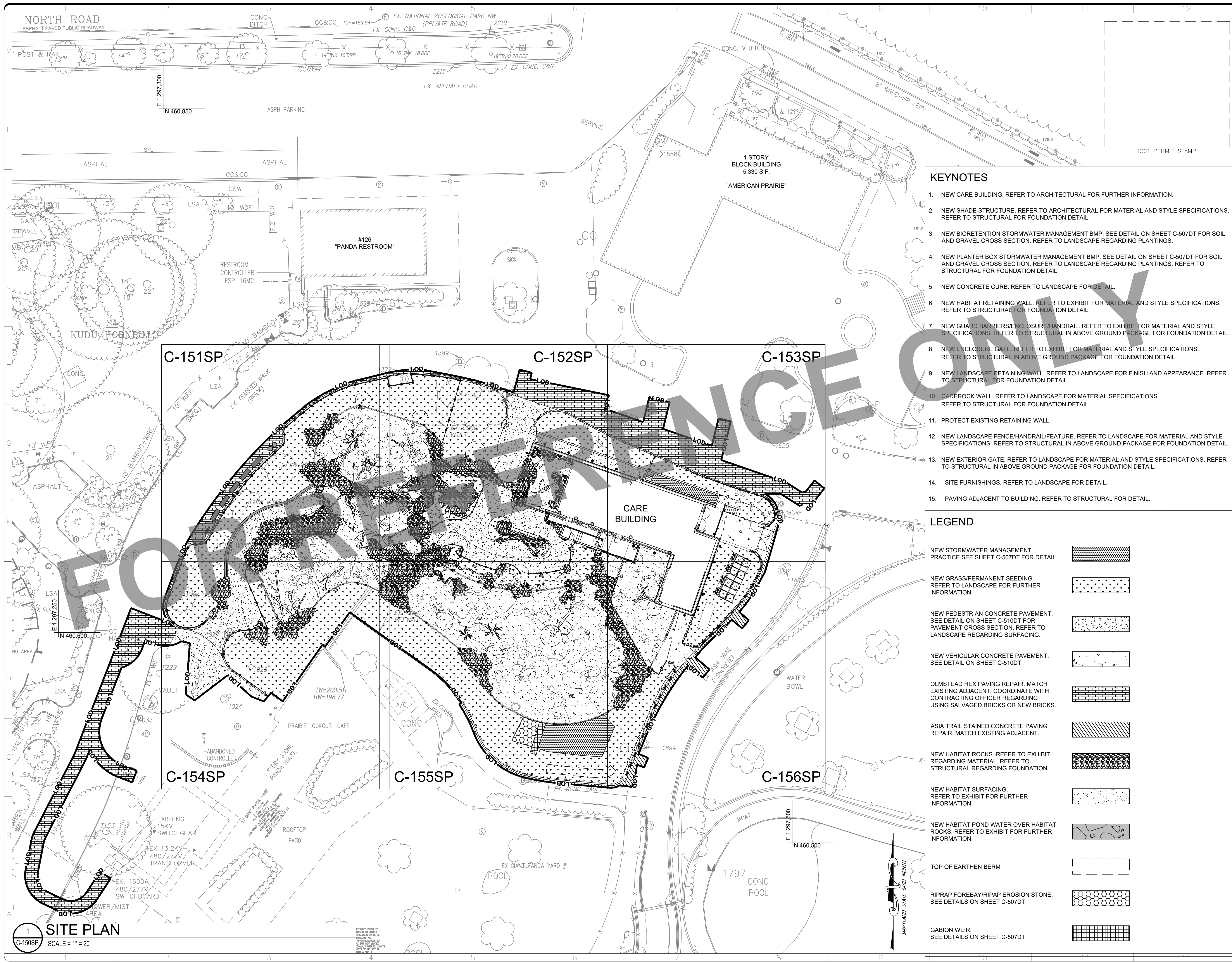
Smithsonian Institution
 Smithsonian OPDC
 600 Maryland Avenue S.W., Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)												
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008												
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)												
OPDC PROJECT NUMBER	2533105												
A/E PROJECT NUMBER	00100084												
DRAWING TITLE	EROSION & SEDIMENT CONTROL PLAN - PH2												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	ST	KK	SM	DRAWN BY				CHECKED BY			
DESIGNED BY	ST	KK	SM										
DRAWN BY													
CHECKED BY													
SHEET NO.	C 145 EP												
OF													

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1 EROSION & SEDIMENT CONTROL PLAN - PH2
 C-145EP SCALE = 1" = 20'

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



KEYNOTES

1. NEW CARE BUILDING. REFER TO ARCHITECTURAL FOR FURTHER INFORMATION.
2. NEW SHADE STRUCTURE. REFER TO ARCHITECTURAL FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
3. NEW BIORETENTION STORMWATER MANAGEMENT BMP. SEE DETAIL ON SHEET C-507DT FOR SOIL AND GRAVEL CROSS SECTION. REFER TO LANDSCAPE REGARDING PLANTINGS.
4. NEW PLANTER BOX STORMWATER MANAGEMENT BMP. SEE DETAIL ON SHEET C-507DT FOR SOIL AND GRAVEL CROSS SECTION. REFER TO LANDSCAPE REGARDING PLANTINGS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
5. NEW CONCRETE CURB. REFER TO LANDSCAPE FOR DETAIL.
6. NEW HABITAT RETAINING WALL. REFER TO EXHIBIT FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
7. NEW GUARD BARRIERS/ENCLOSURE/HANDRAIL. REFER TO EXHIBIT FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
8. NEW ENCLOSURE GATE. REFER TO EXHIBIT FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
9. NEW LANDSCAPE RETAINING WALL. REFER TO LANDSCAPE FOR FINISH AND APPEARANCE. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
10. CADEROCK WALL. REFER TO LANDSCAPE FOR MATERIAL SPECIFICATIONS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
11. PROTECT EXISTING RETAINING WALL.
12. NEW LANDSCAPE FENCE/HANDRAIL/FEATURE. REFER TO LANDSCAPE FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
13. NEW EXTERIOR GATE. REFER TO LANDSCAPE FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
14. SITE FURNISHINGS. REFER TO LANDSCAPE FOR DETAIL.
15. PAVING ADJACENT TO BUILDING. REFER TO STRUCTURAL FOR DETAIL.

LEGEND

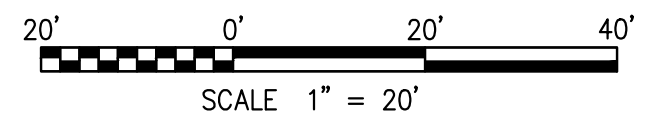
- NEW STORMWATER MANAGEMENT PRACTICE SEE SHEET C-507DT FOR DETAIL.
- NEW GRASS/PERMANENT SEEDING. REFER TO LANDSCAPE FOR FURTHER INFORMATION.
- NEW PEDESTRIAN CONCRETE PAVEMENT. SEE DETAIL ON SHEET C-510DT FOR PAVEMENT CROSS SECTION. REFER TO LANDSCAPE REGARDING SURFACING.
- NEW VEHICULAR CONCRETE PAVEMENT. SEE DETAIL ON SHEET C-510DT.
- OLMSTEAD HEX PAVING REPAIR. MATCH EXISTING ADJACENT. COORDINATE WITH CONTRACTING OFFICER REGARDING USING SALVAGED BRICKS OR NEW BRICKS.
- ASIA TRAIL STAINED CONCRETE PAVING REPAIR. MATCH EXISTING ADJACENT.
- NEW HABITAT ROCKS. REFER TO EXHIBIT REGARDING MATERIAL. REFER TO STRUCTURAL REGARDING FOUNDATION.
- NEW HABITAT SURFACING. REFER TO EXHIBIT FOR FURTHER INFORMATION.
- NEW HABITAT POND WATER OVER HABITAT ROCKS. REFER TO EXHIBIT FOR FURTHER INFORMATION.
- TOP OF EARTHEN BERM
- RIPRAP FOREBAY/RIPRAP EROSION STONE. SEE DETAILS ON SHEET C-507DT.
- GABION WEIR. SEE DETAILS ON SHEET C-507DT.

ALF
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ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



Smithsonian
Institution

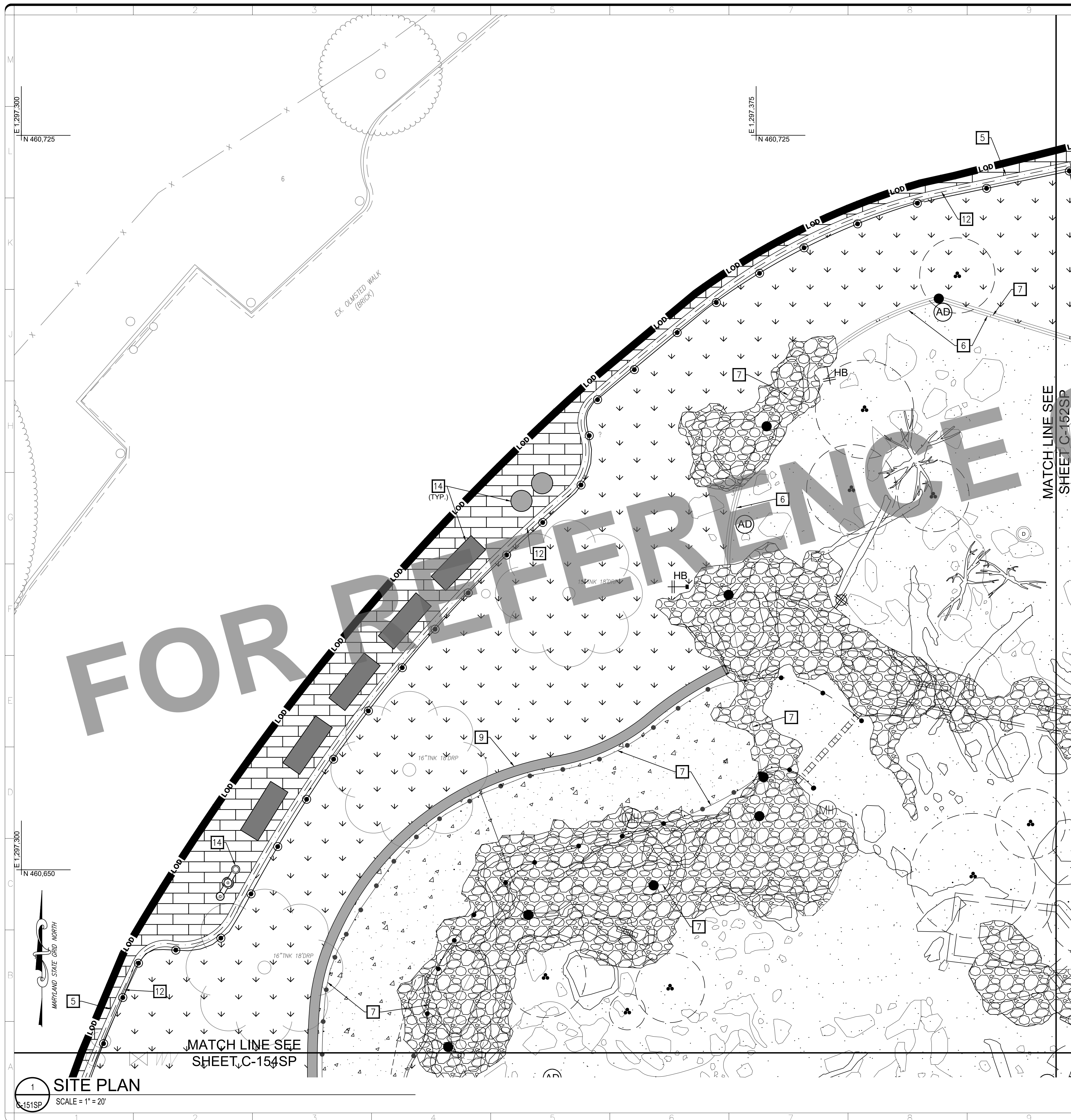
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600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)						
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008						
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)						
OPDC PROJECT NUMBER	2533105						
A/E PROJECT NUMBER	00100084						
DRAWING TITLE	SITE PLAN						
WORKING STAFF	<table border="1"> <tr> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
ST	KK	SM					
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OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						

3/12/2026 11:18:18 AM
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1 SITE PLAN
SCALE = 1" = 20'

REVISIONS TO SHEET C-150SP BY DATE DESCRIPTION
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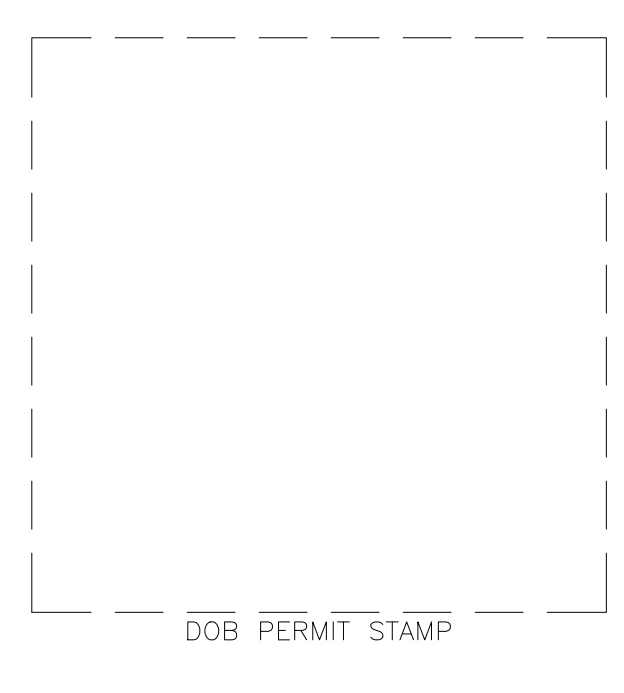


KEYNOTES

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LEGEND

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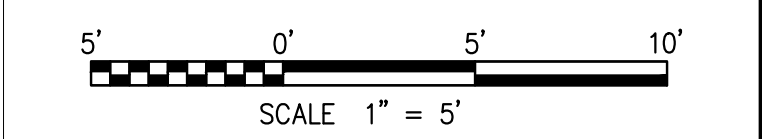


ALF
CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	REVISION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION

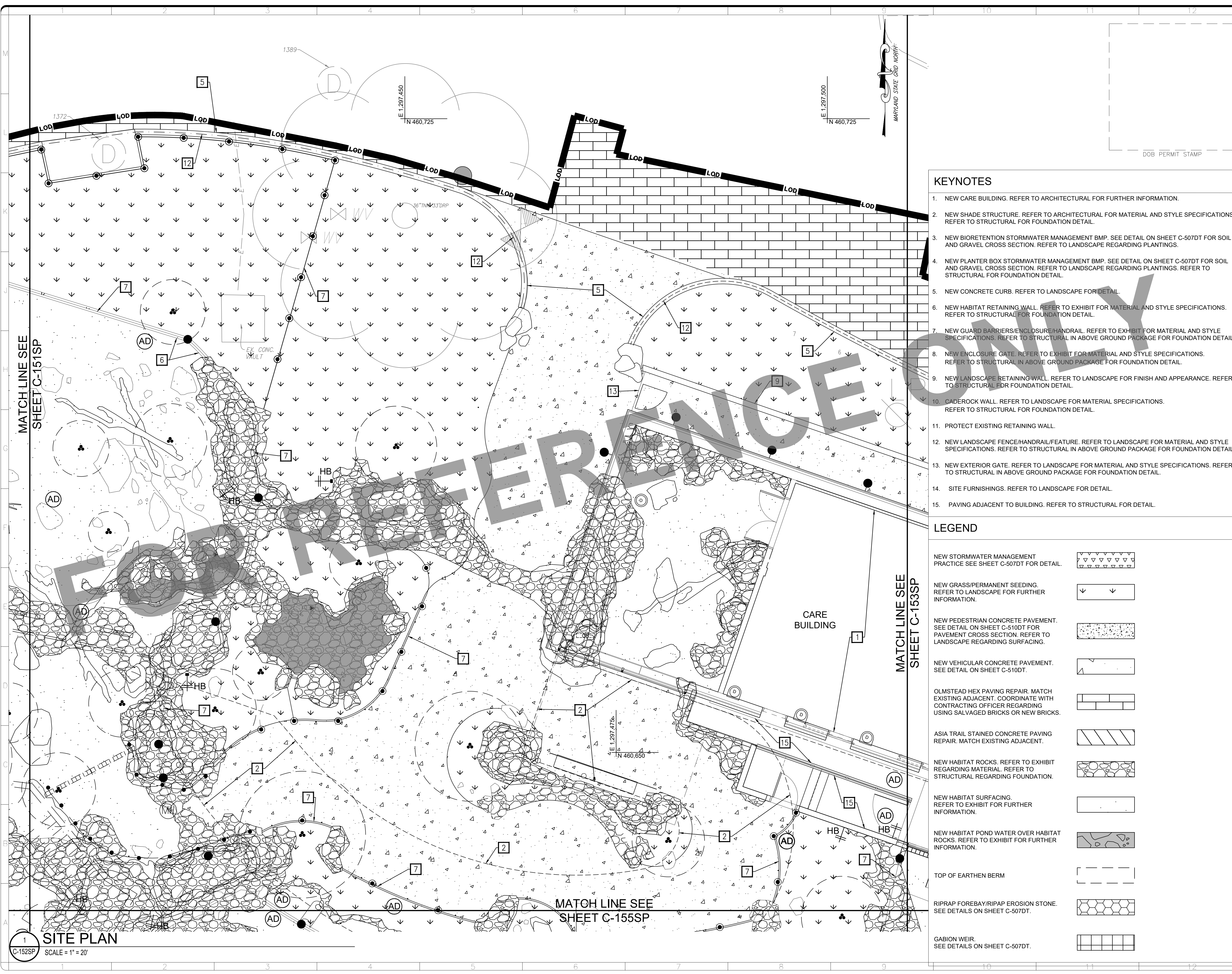


Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)						
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008						
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)						
OPDC PROJECT NUMBER	2533105						
ALF PROJECT NUMBER	00100084						
DRAWING TITLE	SITE PLAN						
WORKING STAFF	<table border="1"> <tr> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
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DESIGNED BY	DRAWN BY	CHECKED BY					
SHEET NO.	C 151 SP						
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						

3/12/2026 11:19:19 AM
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1 SITE PLAN
SCALE = 1" = 20'



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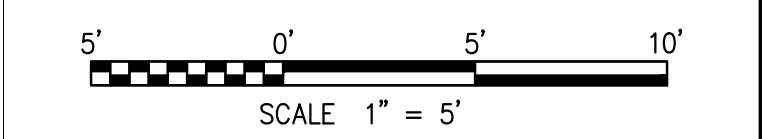
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CONSTRUCT
ARABIAN LEOPARD
FACILITY

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KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	REVISION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



Smithsonian OPDC
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008

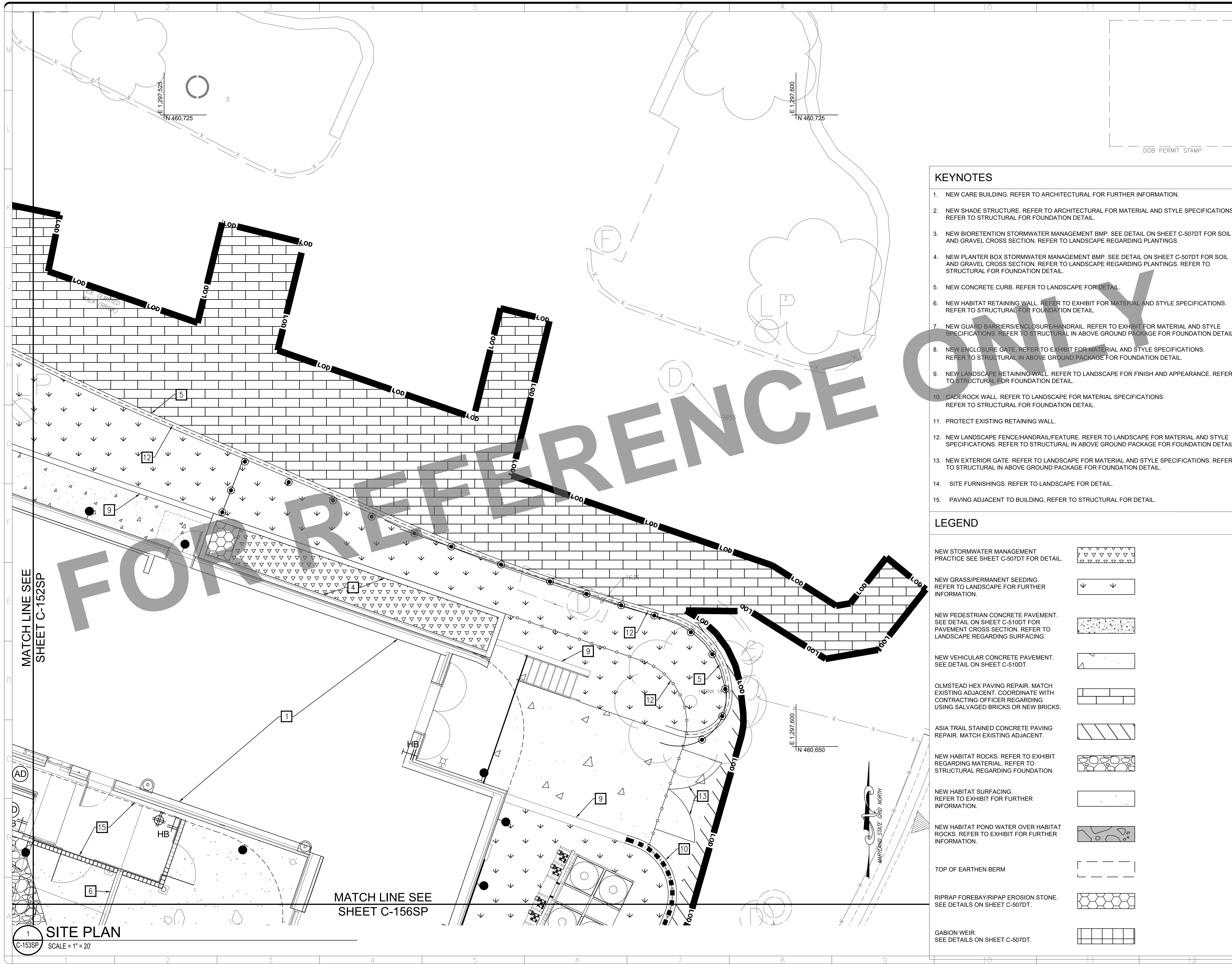
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
ALF PROJECT NUMBER	00100084

DESIGNED BY	ST	KK	SM
DRAWN BY			
CHECKED BY			

SHEET NO.	C 152 SP
OF	

3/12/2026 11:18:18 AM
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C-152SP
SITE PLAN
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ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID

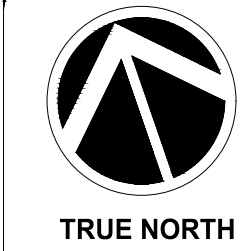
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KEYNOTES

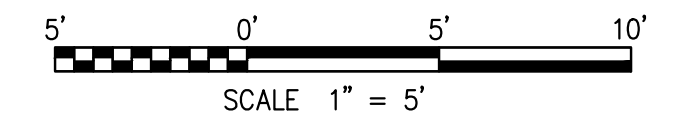
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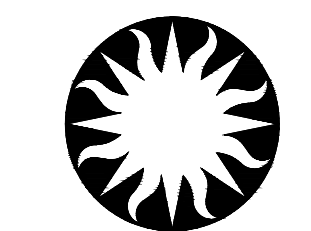


KEY PLAN



GRAPHIC SCALE(S)

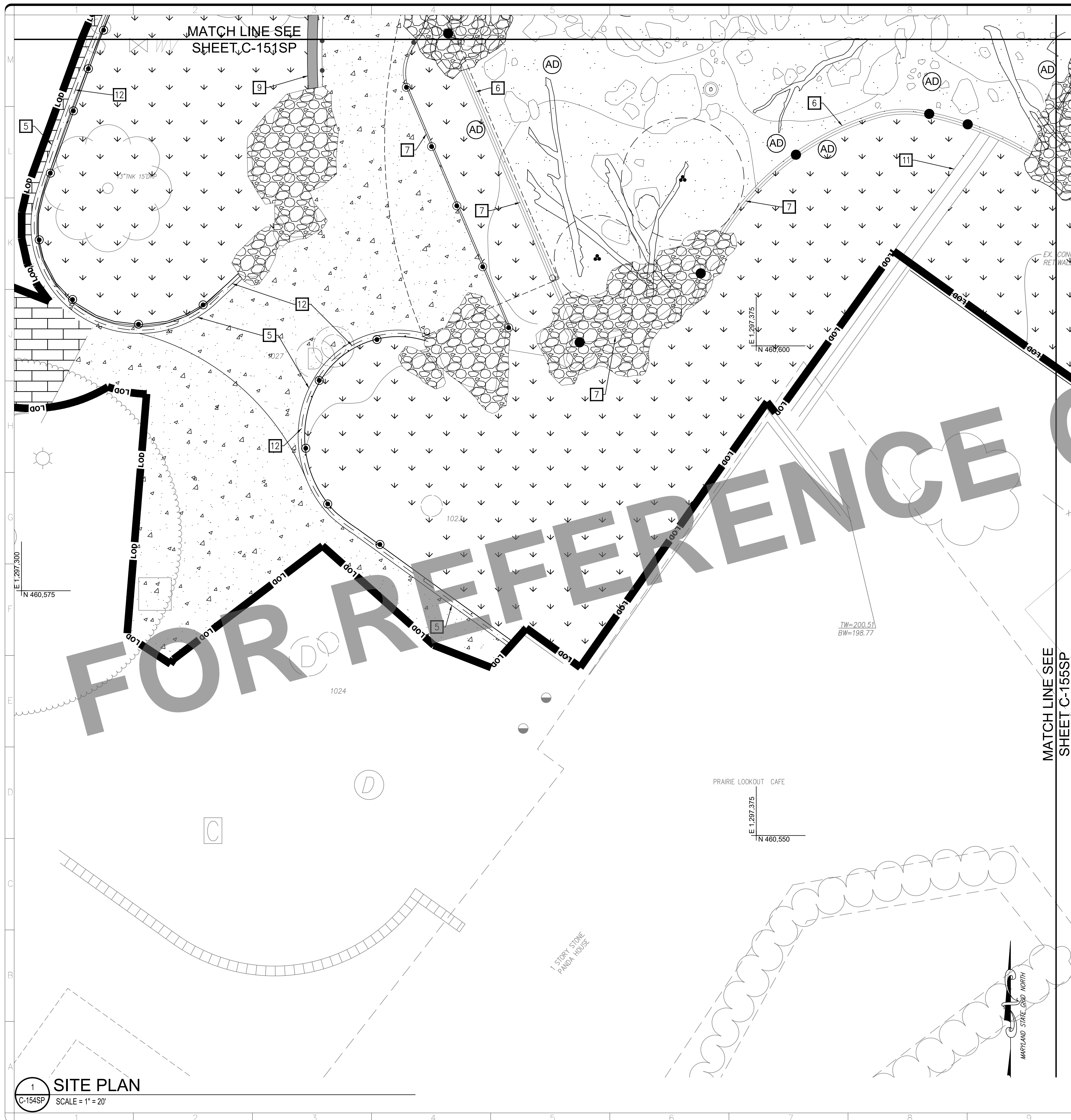
DATE 04/02/2026	ISSUSSION ISSUED FOR BID
DESIGNER # DATE	DESCRIPTION



Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)						
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008						
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)						
OPDC PROJECT NUMBER	2533105						
ALF PROJECT NUMBER	00100084						
DRAWING TITLE	SITE PLAN						
WORKING STAFF	<table border="1"> <tr> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
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DESIGNED BY	DRAWN BY	CHECKED BY					
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OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						



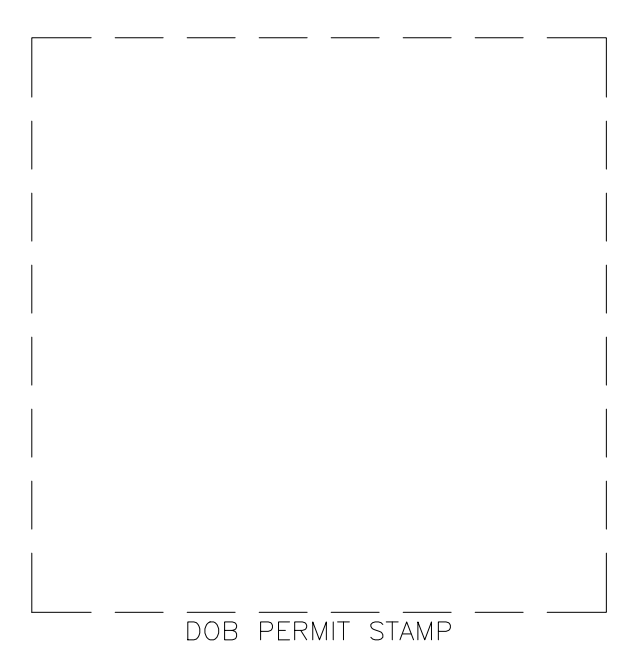
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MATCH LINE SEE SHEET C-155SP



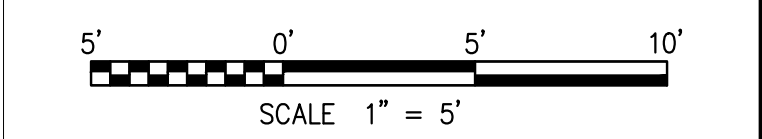
ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID



KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	REVISION ISSUED FOR BID
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Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

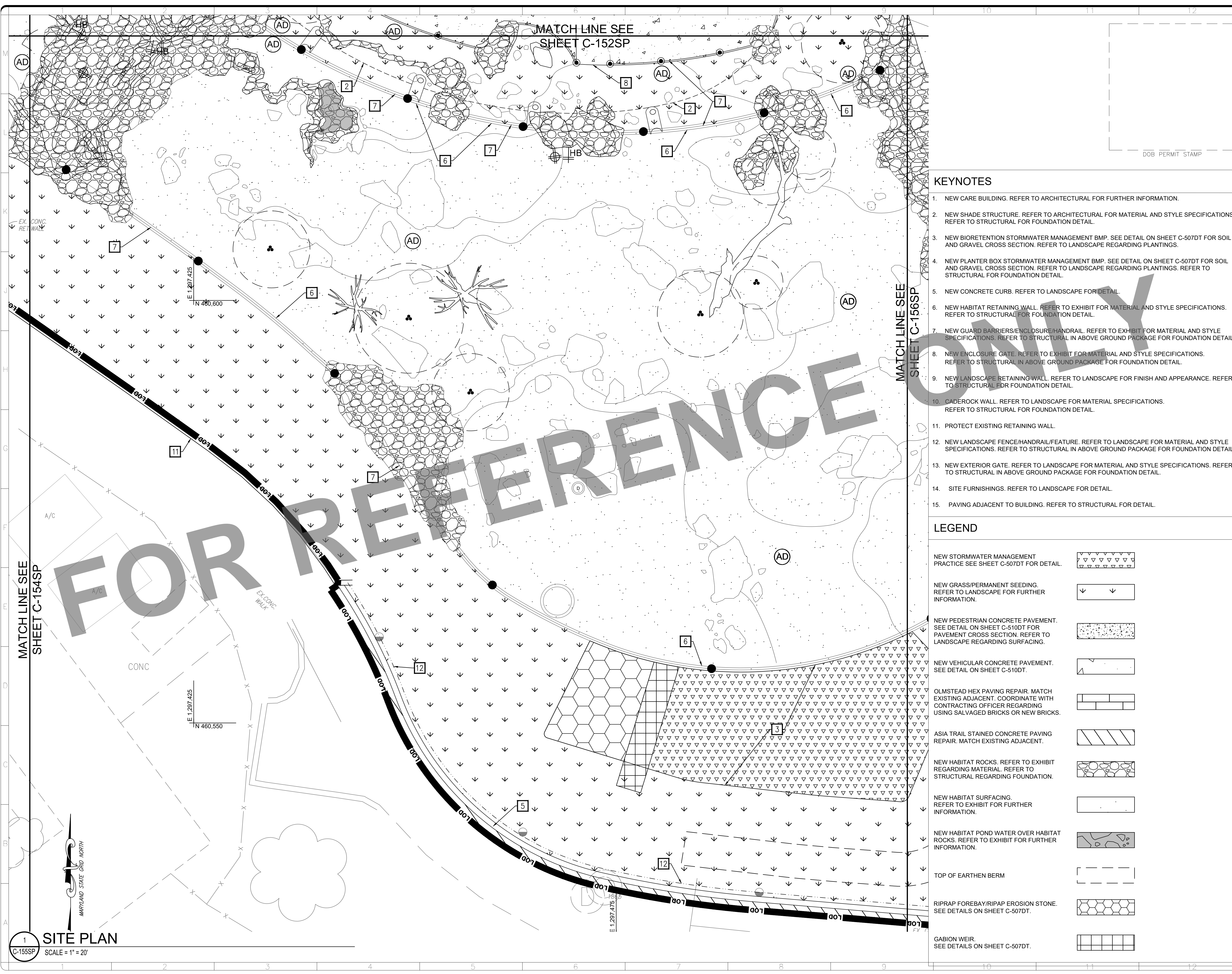
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ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
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A/E PROJECT NUMBER	00100084

DESIGNED BY	ST	KK	SM
DRAWN BY			
CHECKED BY			

SHEET NO.	C 154 SP
OF	

3/12/2026 11:19:19 AM
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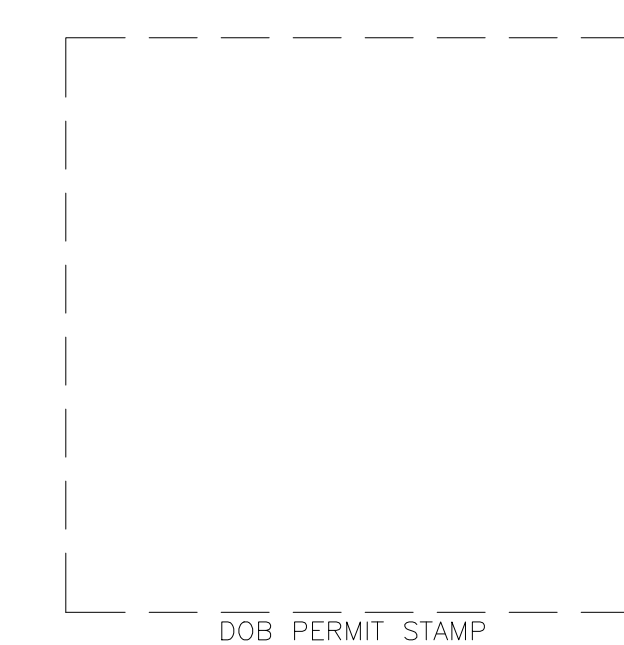
1 SITE PLAN
SCALE = 1" = 20'



MATCH LINE SEE
SHEET C-152SP

MATCH LINE SEE
SHEET C-156SP

MATCH LINE SEE
SHEET C-154SP



DOB PERMIT STAMP

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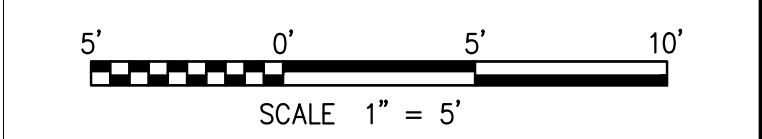
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ISSUED FOR BID



KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	REVISION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION

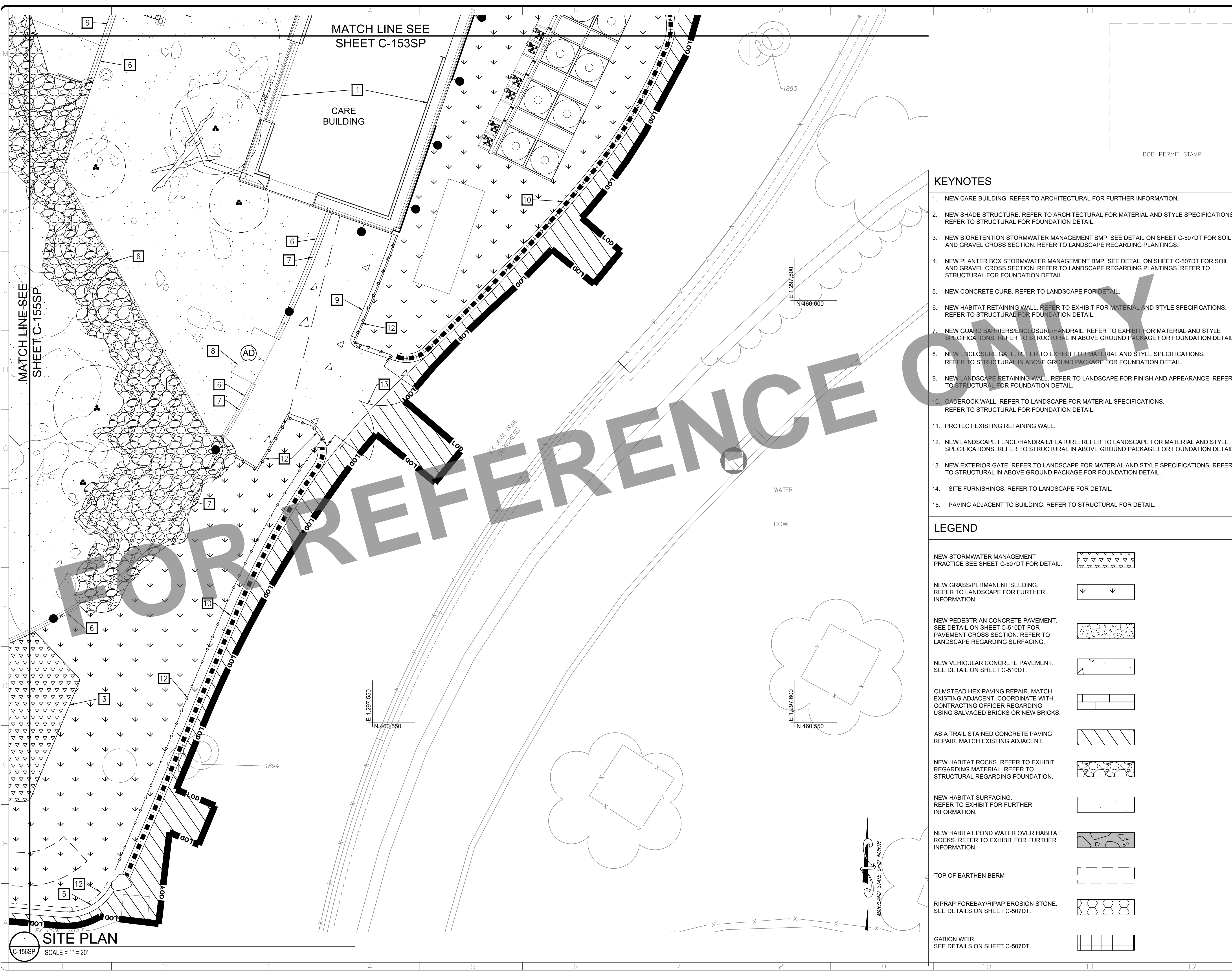


Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)						
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008						
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)						
OPDC PROJECT NUMBER	2533105						
ALF PROJECT NUMBER	00100084						
DRAWING TITLE	SITE PLAN						
WORKING STAFF	<table border="1"> <tr> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
ST	KK	SM					
DESIGNED BY	DRAWN BY	CHECKED BY					
SHEET NO.	C 155 SP						
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						

3/12/2026 11:18:18 AM
 XXXXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

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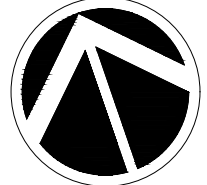


ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

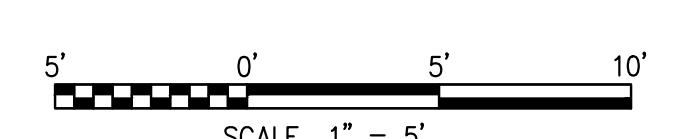
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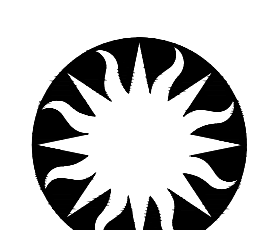
KEY PLAN



SCALE 1" = 5'

GRAPHIC SCALE(S)

<small>DATE</small> 04/02/2026	<small>REVISION</small> ISSUED FOR BID
<small>REVISION #</small> 	<small>REVISION DESCRIPTION</small>



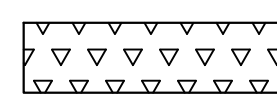
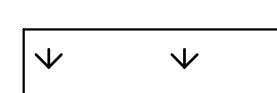
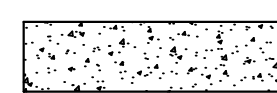
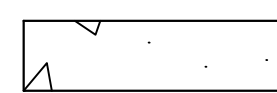
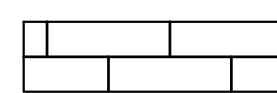
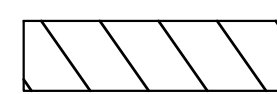

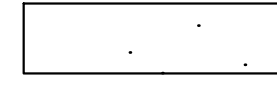
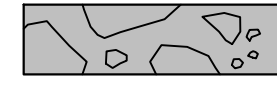
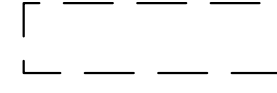
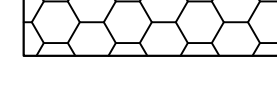
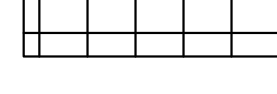
Smithsonian Institution

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<small>DRAWING TITLE</small>	SITE PLAN						
<small>WORKING STAFF</small>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">ST</td> <td style="width: 33%; text-align: center;">KK</td> <td style="width: 33%; text-align: center;">SM</td> </tr> <tr> <td style="font-size: x-small; text-align: center;">DESIGNED BY</td> <td style="font-size: x-small; text-align: center;">DRAWN BY</td> <td style="font-size: x-small; text-align: center;">CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
ST	KK	SM					
DESIGNED BY	DRAWN BY	CHECKED BY					
<small>SHEET NO.</small>	C 156 SP						
<small>OF</small>	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						

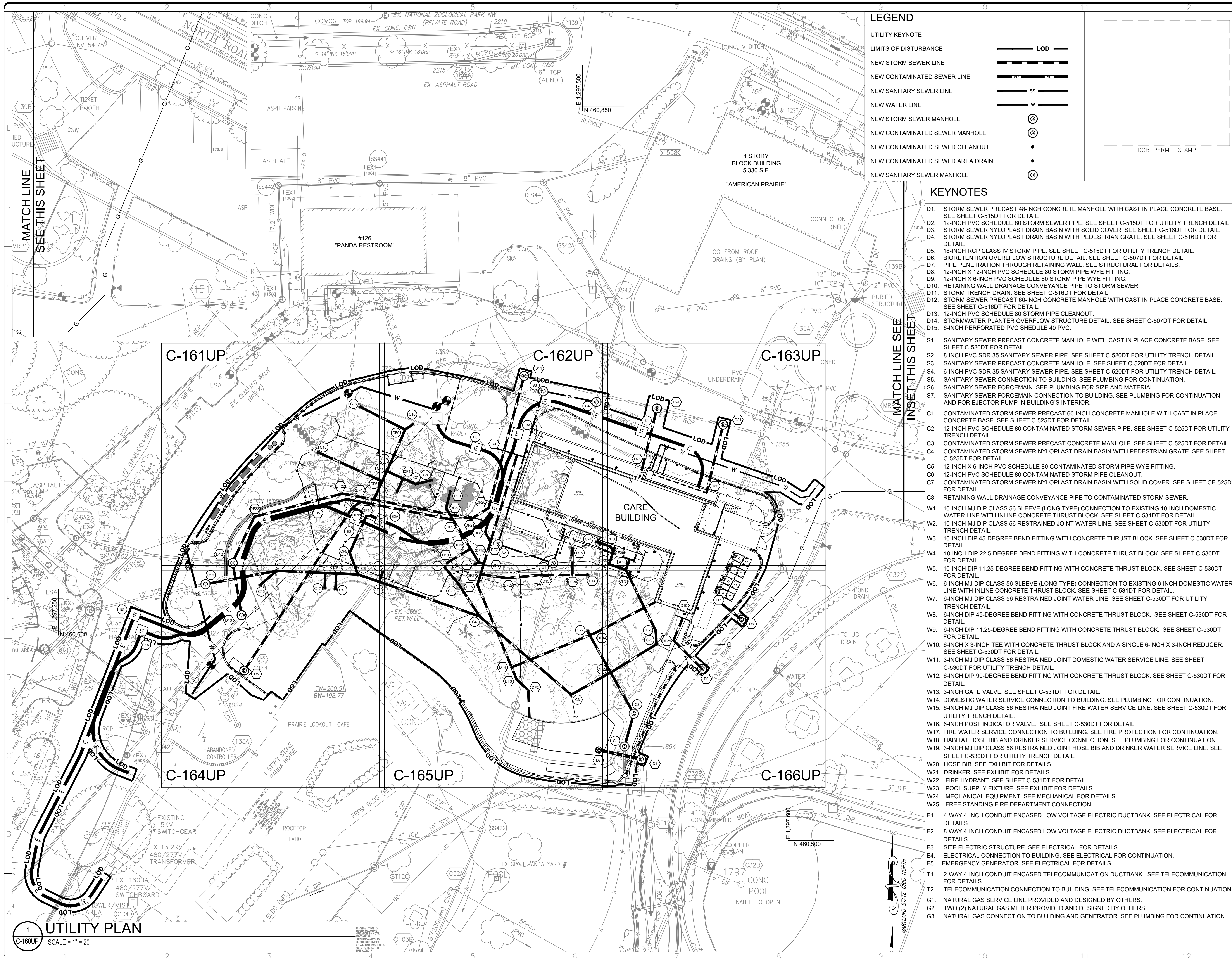
- ### KEYNOTES
1. NEW CARE BUILDING. REFER TO ARCHITECTURAL FOR FURTHER INFORMATION.
 2. NEW SHADE STRUCTURE. REFER TO ARCHITECTURAL FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
 3. NEW BIORETENTION STORMWATER MANAGEMENT BMP. SEE DETAIL ON SHEET C-507DT FOR SOIL AND GRAVEL CROSS SECTION. REFER TO LANDSCAPE REGARDING PLANTINGS.
 4. NEW PLANTER BOX STORMWATER MANAGEMENT BMP. SEE DETAIL ON SHEET C-507DT FOR SOIL AND GRAVEL CROSS SECTION. REFER TO LANDSCAPE REGARDING PLANTINGS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
 5. NEW CONCRETE CURB. REFER TO LANDSCAPE FOR DETAIL.
 6. NEW HABITAT RETAINING WALL. REFER TO EXHIBIT FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
 7. NEW GUARD BARRIERS/ENCLOSURE/HANDRAIL. REFER TO EXHIBIT FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
 8. NEW ENCLOSURE GATE. REFER TO EXHIBIT FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
 9. NEW LANDSCAPE RETAINING WALL. REFER TO LANDSCAPE FOR FINISH AND APPEARANCE. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
 10. GADEROCK WALL. REFER TO LANDSCAPE FOR MATERIAL SPECIFICATIONS. REFER TO STRUCTURAL FOR FOUNDATION DETAIL.
 11. PROTECT EXISTING RETAINING WALL.
 12. NEW LANDSCAPE FENCE/HANDRAIL/FEATURE. REFER TO LANDSCAPE FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
 13. NEW EXTERIOR GATE. REFER TO LANDSCAPE FOR MATERIAL AND STYLE SPECIFICATIONS. REFER TO STRUCTURAL IN ABOVE GROUND PACKAGE FOR FOUNDATION DETAIL.
 14. SITE FURNISHINGS. REFER TO LANDSCAPE FOR DETAIL.
 15. PAVING ADJACENT TO BUILDING. REFER TO STRUCTURAL FOR DETAIL.

LEGEND

NEW STORMWATER MANAGEMENT PRACTICE SEE SHEET C-507DT FOR DETAIL.	
NEW GRASS/PERMANENT SEEDING. REFER TO LANDSCAPE FOR FURTHER INFORMATION.	
NEW PEDESTRIAN CONCRETE PAVEMENT. SEE DETAIL ON SHEET C-510DT FOR PAVEMENT CROSS SECTION. REFER TO LANDSCAPE REGARDING SURFACING.	
NEW VEHICULAR CONCRETE PAVEMENT. SEE DETAIL ON SHEET C-510DT.	
OLMSTEAD HEX PAVING REPAIR. MATCH EXISTING ADJACENT. COORDINATE WITH CONTRACTING OFFICER REGARDING USING SALVAGED BRICKS OR NEW BRICKS.	
ASIA TRAIL STAINED CONCRETE PAVING REPAIR. MATCH EXISTING ADJACENT.	
NEW HABITAT ROCKS. REFER TO EXHIBIT REGARDING MATERIAL. REFER TO STRUCTURAL REGARDING FOUNDATION.	
NEW HABITAT SURFACING. REFER TO EXHIBIT FOR FURTHER INFORMATION.	
NEW HABITAT POND WATER OVER HABITAT ROCKS. REFER TO EXHIBIT FOR FURTHER INFORMATION.	
TOP OF EARTHEN BERM	
RIPRAP FOREBAY/RIPRAP EROSION STONE. SEE DETAILS ON SHEET C-507DT.	
GABION WEIR. SEE DETAILS ON SHEET C-507DT.	

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1 SITE PLAN
C-156SP SCALE = 1" = 20'



LEGEND

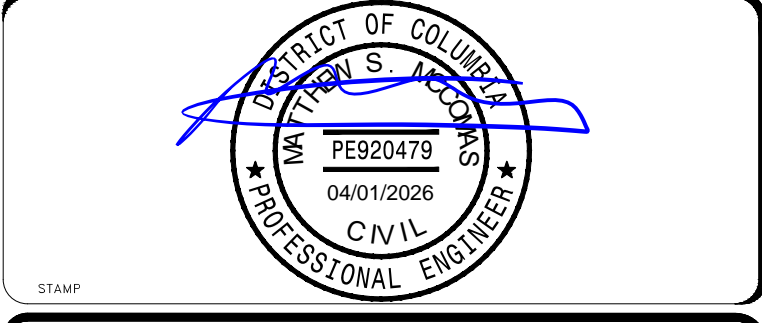
UTILITY KEYNOTE	
LIMITS OF DISTURBANCE	LOD
NEW STORM SEWER LINE	SS
NEW CONTAMINATED SEWER LINE	SS
NEW SANITARY SEWER LINE	SS
NEW WATER LINE	W
NEW STORM SEWER MANHOLE	⊙
NEW CONTAMINATED SEWER MANHOLE	⊙
NEW CONTAMINATED SEWER CLEANOUT	•
NEW CONTAMINATED SEWER AREA DRAIN	•
NEW SANITARY SEWER MANHOLE	⊙

KEYNOTES

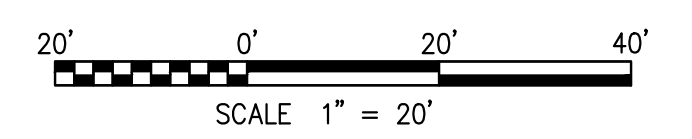
- D1. STORM SEWER PRECAST 48-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-515DT FOR DETAIL.
- D2. 12-INCH PVC SCHEDULE 80 STORM SEWER PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
- D3. STORM SEWER NYLOPLAST DRAIN BASIN WITH SOLID COVER. SEE SHEET C-516DT FOR DETAIL.
- D4. STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-516DT FOR DETAIL.
- D5. 18-INCH RCP CLASS IV STORM PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
- D6. BIORETENTION OVERFLOW STRUCTURE DETAIL. SEE SHEET C-507DT FOR DETAIL.
- D7. PIPE PENETRATION THROUGH RETAINING WALL. SEE STRUCTURAL FOR DETAILS.
- D8. 12-INCH X 12-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
- D9. 12-INCH X 6-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
- D10. RETAINING WALL DRAINAGE CONVEYANCE PIPE TO STORM SEWER.
- D11. STORM TRENCH DRAIN. SEE SHEET C-516DT FOR DETAIL.
- D12. STORM SEWER PRECAST 60-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-516DT FOR DETAIL.
- D13. 12-INCH PVC SCHEDULE 80 STORM PIPE CLEANOUT.
- D14. STORMWATER PLANTER OVERFLOW STRUCTURE DETAIL. SEE SHEET C-507DT FOR DETAIL.
- D15. 6-INCH PERFORATED PVC SCHEDULE 40 PVC.
- S1. SANITARY SEWER PRECAST CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-520DT FOR DETAIL.
- S2. 8-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-520DT FOR UTILITY TRENCH DETAIL.
- S3. SANITARY SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-520DT FOR DETAIL.
- S4. 6-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-520DT FOR UTILITY TRENCH DETAIL.
- S5. SANITARY SEWER CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION.
- S6. SANITARY SEWER FORCEMAIN. SEE PLUMBING FOR SIZE AND MATERIAL.
- S7. SANITARY SEWER FORCEMAIN CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION AND FOR EJECTOR PUMP IN BUILDING'S INTERIOR.
- C1. CONTAMINATED STORM SEWER PRECAST 60-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-525DT FOR DETAIL.
- C2. 12-INCH PVC SCHEDULE 80 CONTAMINATED STORM SEWER PIPE. SEE SHEET C-525DT FOR UTILITY TRENCH DETAIL.
- C3. CONTAMINATED STORM SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-525DT FOR DETAIL.
- C4. CONTAMINATED STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-525DT FOR DETAIL.
- C5. 12-INCH X 6-INCH PVC SCHEDULE 80 CONTAMINATED STORM PIPE WYE FITTING.
- C6. 12-INCH PVC SCHEDULE 80 CONTAMINATED STORM PIPE CLEANOUT.
- C7. CONTAMINATED STORM SEWER NYLOPLAST DRAIN BASIN WITH SOLID COVER. SEE SHEET CE-525DT FOR DETAIL.
- C8. RETAINING WALL DRAINAGE CONVEYANCE PIPE TO CONTAMINATED STORM SEWER.
- W1. 10-INCH MJDIP CLASS 56 SLEEVE (LONG TYPE) CONNECTION TO EXISTING 10-INCH DOMESTIC WATER LINE WITH INLINE CONCRETE THRUST BLOCK. SEE SHEET C-531DT FOR DETAIL.
- W2. 10-INCH MJDIP CLASS 56 RESTRAINED JOINT WATER LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W3. 10-INCH DIP 45-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W4. 10-INCH DIP 22.5-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W5. 10-INCH DIP 11.25-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W6. 6-INCH MJDIP CLASS 56 SLEEVE (LONG TYPE) CONNECTION TO EXISTING 6-INCH DOMESTIC WATER LINE WITH INLINE CONCRETE THRUST BLOCK. SEE SHEET C-531DT FOR DETAIL.
- W7. 6-INCH MJDIP CLASS 56 RESTRAINED JOINT WATER LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W8. 6-INCH DIP 45-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W9. 6-INCH DIP 11.25-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W10. 6-INCH X 3-INCH TEE WITH CONCRETE THRUST BLOCK AND A SINGLE 6-INCH X 3-INCH REDUCER. SEE SHEET C-530DT FOR DETAIL.
- W11. 3-INCH MJDIP CLASS 56 RESTRAINED JOINT DOMESTIC WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W12. 6-INCH DIP 90-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W13. 3-INCH GATE VALVE. SEE SHEET C-531DT FOR DETAIL.
- W14. DOMESTIC WATER SERVICE CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION.
- W15. 6-INCH MJDIP CLASS 56 RESTRAINED JOINT FIRE WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W16. 6-INCH POST INDICATOR VALVE. SEE SHEET C-530DT FOR DETAIL.
- W17. FIRE WATER SERVICE CONNECTION TO BUILDING. SEE FIRE PROTECTION FOR CONTINUATION.
- W18. HABITAT HOSE BIB AND DRINKER SERVICE CONNECTION. SEE PLUMBING FOR CONTINUATION.
- W19. 3-INCH MJDIP CLASS 56 RESTRAINED JOINT HOSE BIB AND DRINKER WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W20. HOSE BIB. SEE EXHIBIT FOR DETAILS.
- W21. DRINKER. SEE EXHIBIT FOR DETAILS.
- W22. FIRE HYDRANT. SEE SHEET C-531DT FOR DETAIL.
- W23. POOL SUPPLY FIXTURE. SEE EXHIBIT FOR DETAILS.
- W24. MECHANICAL EQUIPMENT. SEE MECHANICAL FOR DETAILS.
- W25. FREE STANDING FIRE DEPARTMENT CONNECTION.
- E1. 4-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
- E2. 8-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
- E3. SITE ELECTRIC STRUCTURE. SEE ELECTRICAL FOR DETAILS.
- E4. ELECTRICAL CONNECTION TO BUILDING. SEE ELECTRICAL FOR CONTINUATION.
- E5. EMERGENCY GENERATOR. SEE ELECTRICAL FOR DETAILS.
- T1. 2-WAY 4-INCH CONDUIT ENCASED TELECOMMUNICATION DUCTBANK. SEE TELECOMMUNICATION FOR DETAILS.
- T2. TELECOMMUNICATION CONNECTION TO BUILDING. SEE TELECOMMUNICATION FOR CONTINUATION.
- G1. NATURAL GAS SERVICE LINE PROVIDED AND DESIGNED BY OTHERS.
- G2. TWO (2) NATURAL GAS METER PROVIDED AND DESIGNED BY OTHERS.
- G3. NATURAL GAS CONNECTION TO BUILDING AND GENERATOR. SEE PLUMBING FOR CONTINUATION.

ALF
CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



KEY PLAN

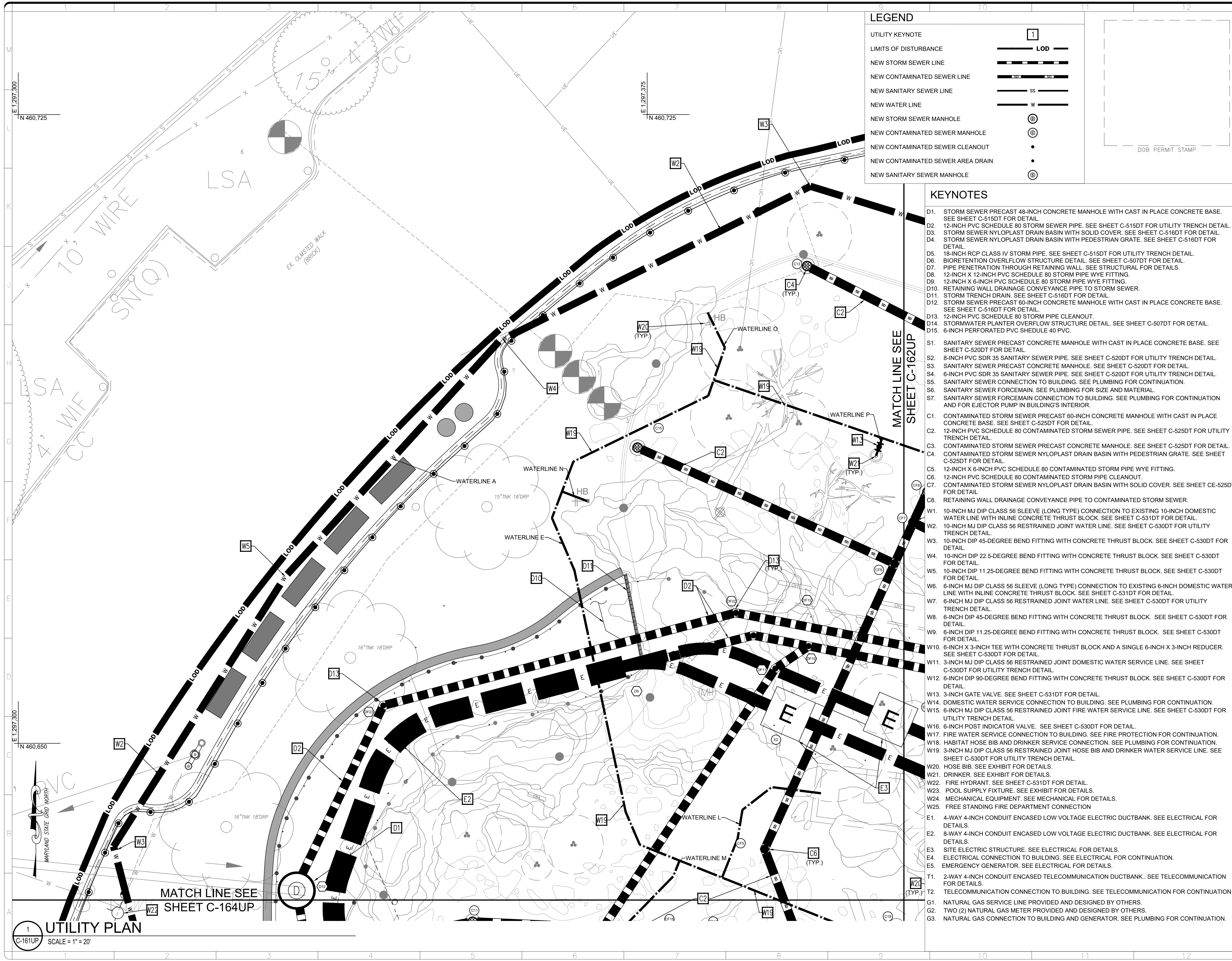


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PROJECT #		
PROJECT DESCRIPTION		


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DRIVING TITLE	UTILITY PLAN
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 160 UP
DISCIPLINE	TYPE
SEQUENCE	DRAWING TYPE

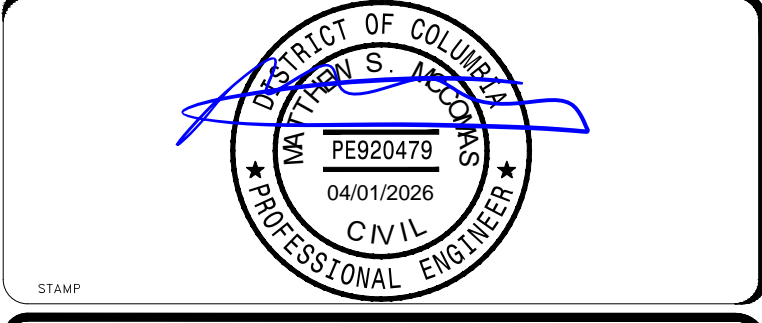
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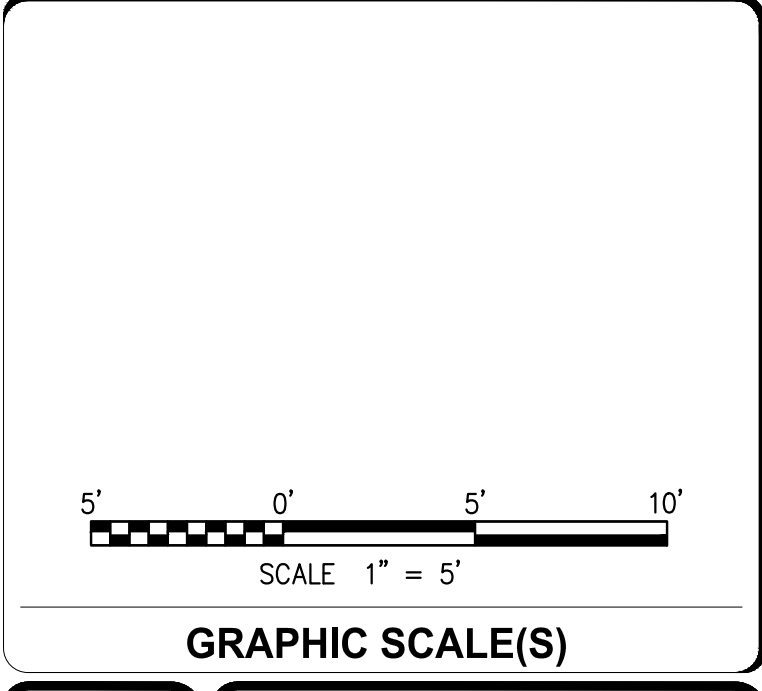
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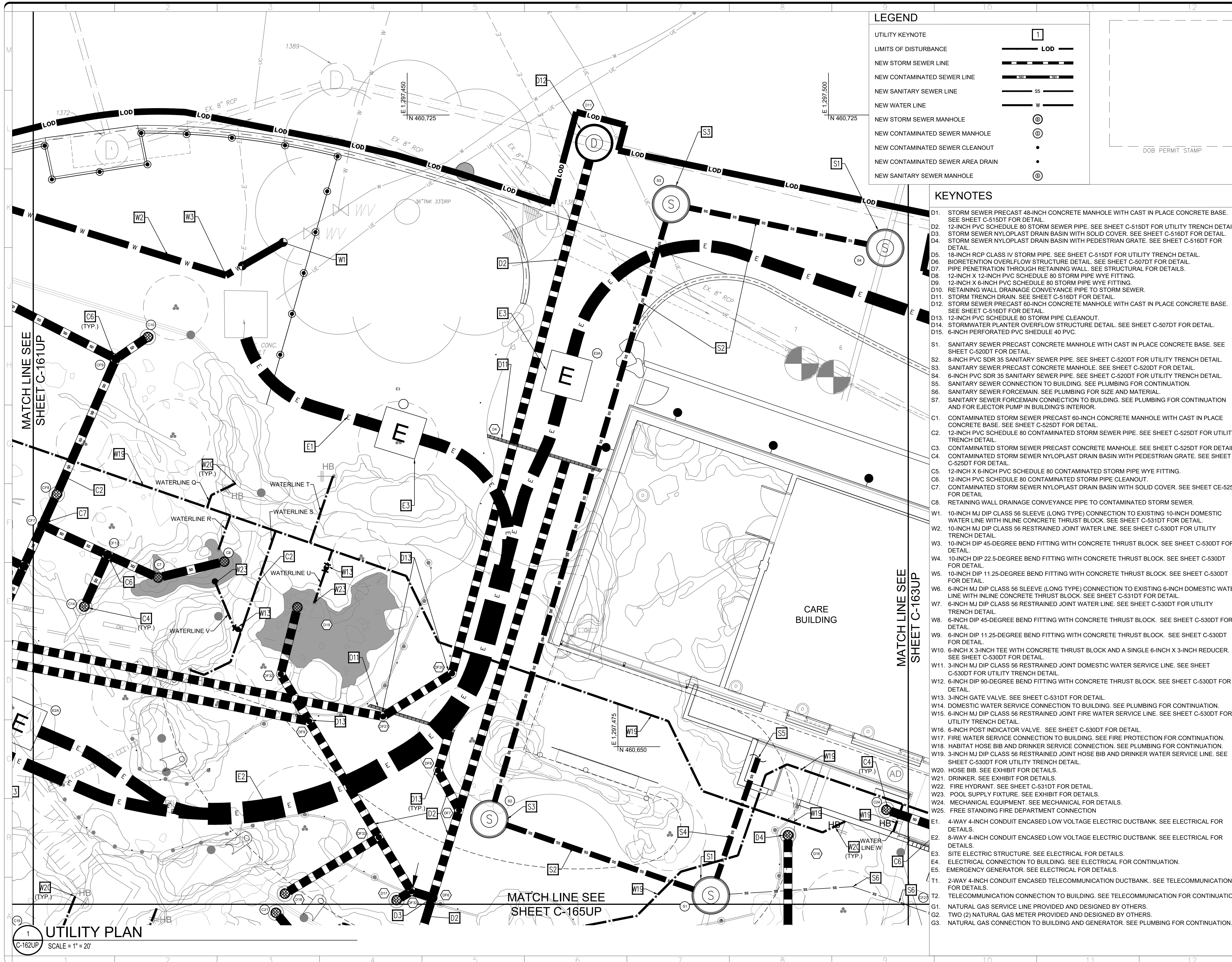
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SHEET NO.	C 161 UP		
DISCIPLINE	TYPE	SEQUENCE	DRAWING TYPE

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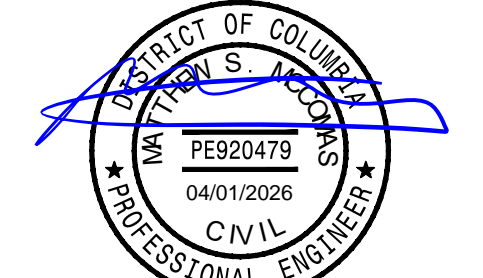
UTILITY KEYNOTE	1
LIMITS OF DISTURBANCE	LOD
NEW STORM SEWER LINE	---
NEW CONTAMINATED SEWER LINE	---
NEW SANITARY SEWER LINE	SS
NEW WATER LINE	W
NEW STORM SEWER MANHOLE	D
NEW CONTAMINATED SEWER MANHOLE	S
NEW CONTAMINATED SEWER CLEANOUT	•
NEW CONTAMINATED SEWER AREA DRAIN	•
NEW SANITARY SEWER MANHOLE	S

- KEYNOTES**
- D1. STORM SEWER PRECAST 48-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-515DT FOR DETAIL.
 - D2. 12-INCH PVC SCHEDULE 80 STORM SEWER PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
 - D3. STORM SEWER NYLOPLAST DRAIN BASIN WITH SOLID COVER. SEE SHEET C-516DT FOR DETAIL.
 - D4. STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-516DT FOR DETAIL.
 - D5. 18-INCH RCP CLASS IV STORM PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
 - D6. BI-ORIENTATION OVERFLOW STRUCTURE DETAIL. SEE SHEET C-507DT FOR DETAIL.
 - D7. PIPE PENETRATION THROUGH RETAINING WALL. SEE STRUCTURAL FOR DETAILS.
 - D8. 12-INCH X 12-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
 - D9. 12-INCH X 6-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
 - D10. RETAINING WALL DRAINAGE CONVEYANCE PIPE TO STORM SEWER.
 - D11. STORM TRENCH DRAIN. SEE SHEET C-516DT FOR DETAIL.
 - D12. STORM SEWER PRECAST 60-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-516DT FOR DETAIL.
 - D13. 12-INCH PVC SCHEDULE 80 STORM PIPE CLEANOUT.
 - D14. STORMWATER PLANTER OVERFLOW STRUCTURE DETAIL. SEE SHEET C-507DT FOR DETAIL.
 - D15. 6-INCH PERFORATED PVC SCHEDULE 40 PVC.
 - S1. SANITARY SEWER PRECAST CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-520DT FOR DETAIL.
 - S2. 8-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-520DT FOR UTILITY TRENCH DETAIL.
 - S3. SANITARY SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-520DT FOR DETAIL.
 - S4. 6-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-520DT FOR UTILITY TRENCH DETAIL.
 - S5. SANITARY SEWER CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION.
 - S6. SANITARY SEWER FORCEMAIN. SEE PLUMBING FOR SIZE AND MATERIAL.
 - S7. SANITARY SEWER FORCEMAIN CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION AND FOR EJECTOR PUMP IN BUILDING'S INTERIOR.
 - C1. CONTAMINATED STORM SEWER PRECAST 60-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-525DT FOR DETAIL.
 - C2. 12-INCH PVC SCHEDULE 80 CONTAMINATED STORM SEWER PIPE. SEE SHEET C-525DT FOR UTILITY TRENCH DETAIL.
 - C3. CONTAMINATED STORM SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-525DT FOR DETAIL.
 - C4. CONTAMINATED STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-525DT FOR DETAIL.
 - C5. 12-INCH X 6-INCH PVC SCHEDULE 80 CONTAMINATED STORM PIPE WYE FITTING.
 - C6. 12-INCH PVC SCHEDULE 80 CONTAMINATED STORM PIPE CLEANOUT.
 - C7. CONTAMINATED STORM SEWER NYLOPLAST DRAIN BASIN WITH SOLID COVER. SEE SHEET CE-525DT FOR DETAIL.
 - C8. RETAINING WALL DRAINAGE CONVEYANCE PIPE TO CONTAMINATED STORM SEWER.
 - W1. 10-INCH MJDIP CLASS 56 SLEEVE (LONG TYPE) CONNECTION TO EXISTING 10-INCH DOMESTIC WATER LINE WITH INLINE CONCRETE THRUST BLOCK. SEE SHEET C-531DT FOR DETAIL.
 - W2. 10-INCH MJDIP CLASS 56 RESTRAINED JOINT WATER LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
 - W3. 10-INCH DIP 45-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
 - W4. 10-INCH DIP 22.5-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
 - W5. 10-INCH DIP 11.25-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
 - W6. 6-INCH MJDIP CLASS 56 SLEEVE (LONG TYPE) CONNECTION TO EXISTING 6-INCH DOMESTIC WATER LINE WITH INLINE CONCRETE THRUST BLOCK. SEE SHEET C-531DT FOR DETAIL.
 - W7. 6-INCH MJDIP CLASS 56 RESTRAINED JOINT WATER LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
 - W8. 6-INCH DIP 45-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
 - W9. 6-INCH DIP 11.25-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
 - W10. 6-INCH X 3-INCH TEE WITH CONCRETE THRUST BLOCK AND A SINGLE 6-INCH X 3-INCH REDUCER. SEE SHEET C-530DT FOR DETAIL.
 - W11. 3-INCH MJDIP CLASS 56 RESTRAINED JOINT DOMESTIC WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
 - W12. 6-INCH DIP 90-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
 - W13. 3-INCH GATE VALVE. SEE SHEET C-531DT FOR DETAIL.
 - W14. DOMESTIC WATER SERVICE CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION.
 - W15. 6-INCH MJDIP CLASS 56 RESTRAINED JOINT FIRE WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
 - W16. 6-INCH POST INDICATOR VALVE. SEE SHEET C-530DT FOR DETAIL.
 - W17. FIRE WATER SERVICE CONNECTION TO BUILDING. SEE FIRE PROTECTION FOR CONTINUATION.
 - W18. HABITAT HOSE BIB AND DRINKER SERVICE CONNECTION. SEE PLUMBING FOR CONTINUATION.
 - W19. 3-INCH MJDIP CLASS 56 RESTRAINED JOINT HOSE BIB AND DRINKER WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
 - W20. HOSE BIB. SEE EXHIBIT FOR DETAILS.
 - W21. DRINKER. SEE EXHIBIT FOR DETAILS.
 - W22. FIRE HYDRANT. SEE SHEET C-531DT FOR DETAIL.
 - W23. POOL SUPPLY FIXTURE. SEE EXHIBIT FOR DETAILS.
 - W24. MECHANICAL EQUIPMENT. SEE MECHANICAL FOR DETAILS.
 - W25. FREE STANDING FIRE DEPARTMENT CONNECTION.
 - E1. 4-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
 - E2. 8-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
 - E3. SITE ELECTRIC STRUCTURE. SEE ELECTRICAL FOR DETAILS.
 - E4. ELECTRICAL CONNECTION TO BUILDING. SEE ELECTRICAL FOR CONTINUATION.
 - E5. EMERGENCY GENERATOR. SEE ELECTRICAL FOR DETAILS.
 - T1. 2-WAY 4-INCH CONDUIT ENCASED TELECOMMUNICATION DUCTBANK. SEE TELECOMMUNICATION FOR DETAILS.
 - T2. TELECOMMUNICATION CONNECTION TO BUILDING. SEE TELECOMMUNICATION FOR CONTINUATION.
 - G1. NATURAL GAS SERVICE LINE PROVIDED AND DESIGNED BY OTHERS.
 - G2. TWO (2) NATURAL GAS METER PROVIDED AND DESIGNED BY OTHERS.
 - G3. NATURAL GAS CONNECTION TO BUILDING AND GENERATOR. SEE PLUMBING FOR CONTINUATION.

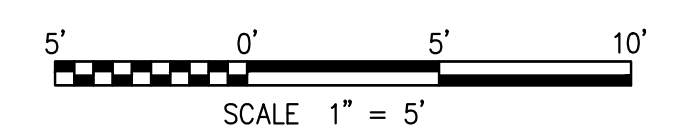
ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID

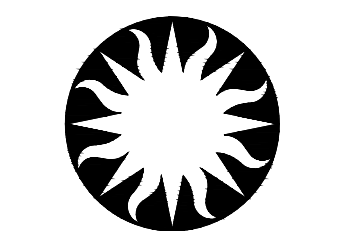


KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	ISSUANCE ISSUED FOR BID
DESIGNER # DATE	DESIGNER DESCRIPTION



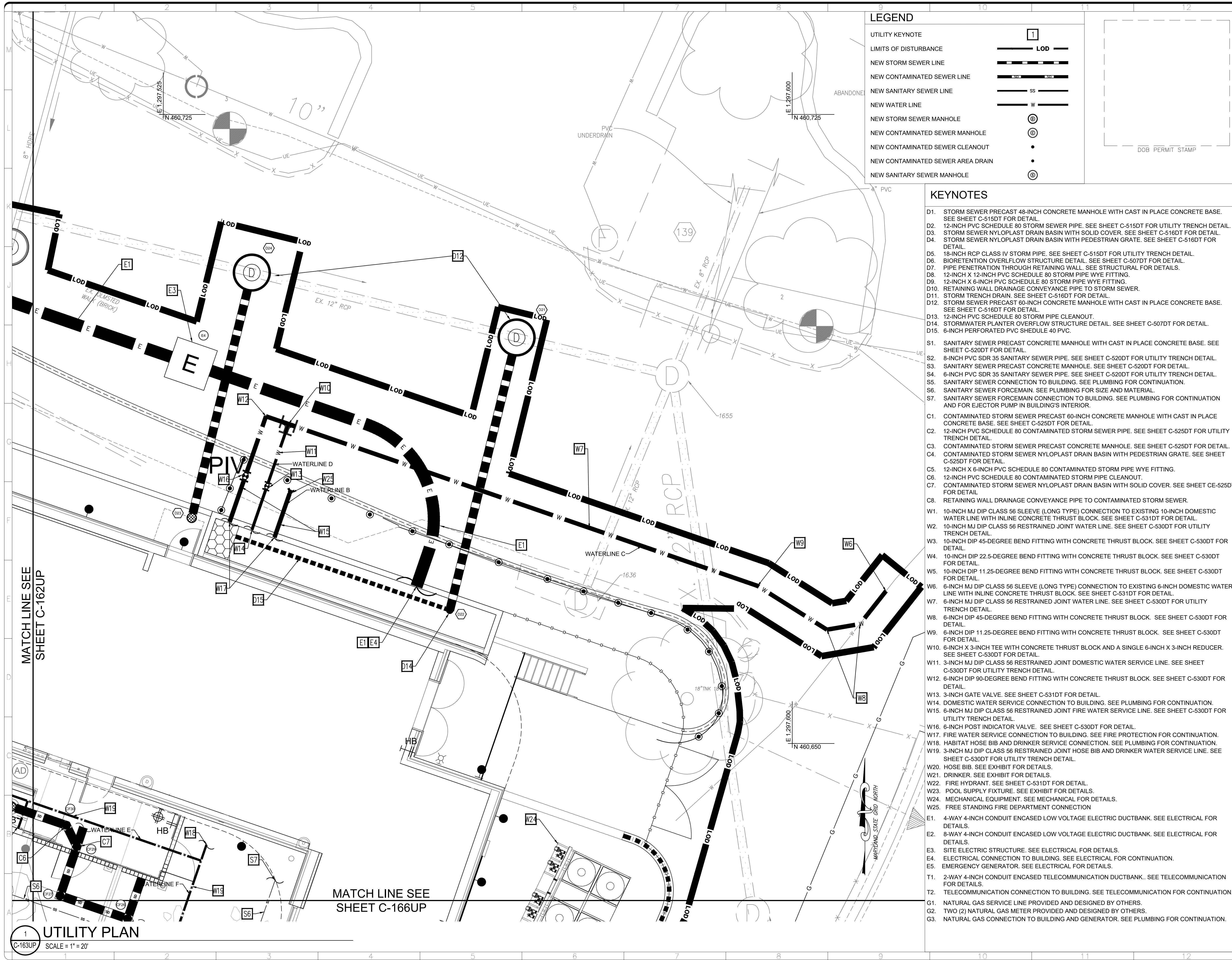
Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	UTILITY PLAN
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 162 UP
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

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UTILITY PLAN
SCALE = 1" = 20'



LEGEND

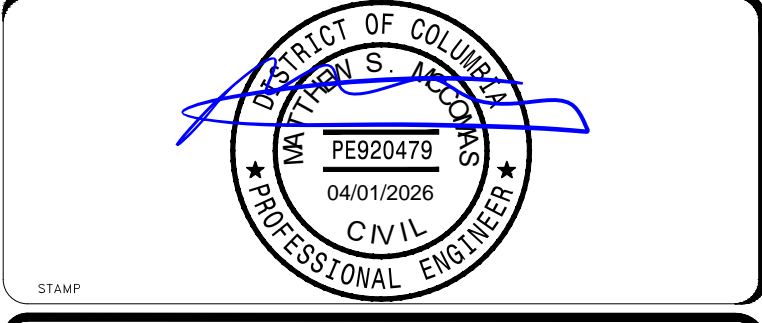
UTILITY KEYNOTE	Symbol
LIMITS OF DISTURBANCE	LOD
NEW STORM SEWER LINE	SS
NEW CONTAMINATED SEWER LINE	SS
NEW SANITARY SEWER LINE	SS
NEW WATER LINE	W
NEW STORM SEWER MANHOLE	D
NEW CONTAMINATED SEWER MANHOLE	D
NEW CONTAMINATED SEWER CLEANOUT	•
NEW CONTAMINATED SEWER AREA DRAIN	•
NEW SANITARY SEWER MANHOLE	D

KEYNOTES

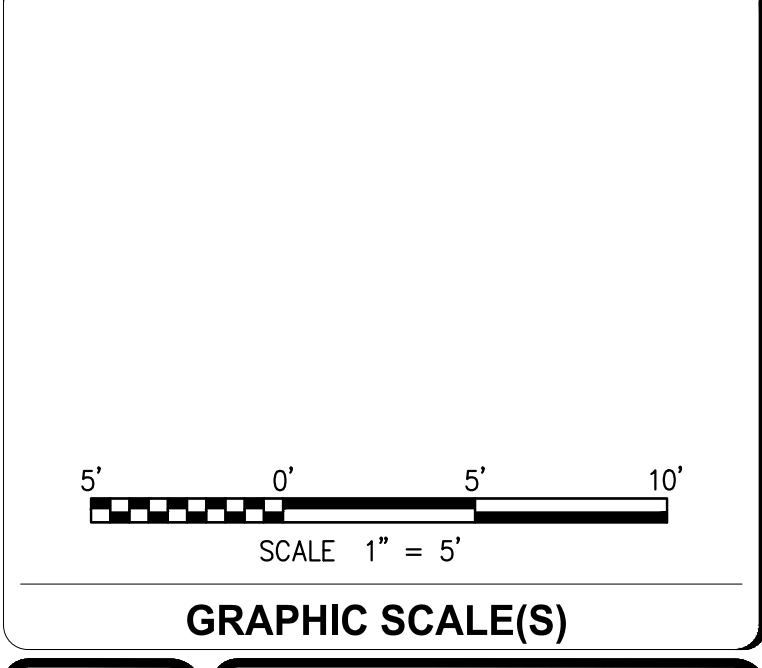
- D1. STORM SEWER PRECAST 48-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-515DT FOR DETAIL.
- D2. 12-INCH PVC SCHEDULE 80 STORM SEWER PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
- D3. STORM SEWER NYLOPLAST DRAIN BASIN WITH SOLID COVER. SEE SHEET C-516DT FOR DETAIL.
- D4. STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-516DT FOR DETAIL.
- D5. 18-INCH RCP CLASS IV STORM PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
- D6. BI-ORIENTATION OVERFLOW STRUCTURE DETAIL. SEE SHEET C-507DT FOR DETAIL.
- D7. PIPE PENETRATION THROUGH RETAINING WALL. SEE STRUCTURAL FOR DETAILS.
- D8. 12-INCH X 12-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
- D9. 12-INCH X 6-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
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- D11. STORM TRENCH DRAIN. SEE SHEET C-516DT FOR DETAIL.
- D12. STORM SEWER PRECAST 60-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-516DT FOR DETAIL.
- D13. 12-INCH PVC SCHEDULE 80 STORM PIPE CLEANOUT.
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- D15. 6-INCH PERFORATED PVC SCHEDULE 40 PVC.
- S1. SANITARY SEWER PRECAST CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-520DT FOR DETAIL.
- S2. 8-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-520DT FOR UTILITY TRENCH DETAIL.
- S3. SANITARY SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-520DT FOR DETAIL.
- S4. 6-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-520DT FOR UTILITY TRENCH DETAIL.
- S5. SANITARY SEWER CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION.
- S6. SANITARY SEWER FORCEMAIN. SEE PLUMBING FOR SIZE AND MATERIAL.
- S7. SANITARY SEWER FORCEMAIN CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION AND FOR EJECTOR PUMP IN BUILDING'S INTERIOR.
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- C5. 12-INCH X 6-INCH PVC SCHEDULE 80 CONTAMINATED STORM PIPE WYE FITTING.
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- W2. 10-INCH MJ DIP CLASS 56 RESTRAINED JOINT WATER LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W3. 10-INCH DIP 45-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W4. 10-INCH DIP 22.5-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
- W5. 10-INCH DIP 11.25-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-530DT FOR DETAIL.
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- W15. 6-INCH MJ DIP CLASS 56 RESTRAINED JOINT FIRE WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W16. 6-INCH POST INDICATOR VALVE. SEE SHEET C-530DT FOR DETAIL.
- W17. FIRE WATER SERVICE CONNECTION TO BUILDING. SEE FIRE PROTECTION FOR CONTINUATION.
- W18. HABITAT HOSE BIB AND DRINKER SERVICE CONNECTION. SEE PLUMBING FOR CONTINUATION.
- W19. 3-INCH MJ DIP CLASS 56 RESTRAINED JOINT HOSE BIB AND DRINKER WATER SERVICE LINE. SEE SHEET C-530DT FOR UTILITY TRENCH DETAIL.
- W20. HOSE BIB. SEE EXHIBIT FOR DETAILS.
- W21. DRINKER. SEE EXHIBIT FOR DETAILS.
- W22. FIRE HYDRANT. SEE SHEET C-531DT FOR DETAIL.
- W23. POOL SUPPLY FIXTURE. SEE EXHIBIT FOR DETAILS.
- W24. MECHANICAL EQUIPMENT. SEE MECHANICAL FOR DETAILS.
- W25. FREE STANDING FIRE DEPARTMENT CONNECTION.
- E1. 4-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
- E2. 8-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
- E3. SITE ELECTRIC STRUCTURE. SEE ELECTRICAL FOR DETAILS.
- E4. ELECTRICAL CONNECTION TO BUILDING. SEE ELECTRICAL FOR CONTINUATION.
- E5. EMERGENCY GENERATOR. SEE ELECTRICAL FOR DETAILS.
- T1. 2-WAY 4-INCH CONDUIT ENCASED TELECOMMUNICATION DUCTBANK. SEE TELECOMMUNICATION FOR DETAILS.
- T2. TELECOMMUNICATION CONNECTION TO BUILDING. SEE TELECOMMUNICATION FOR CONTINUATION.
- G1. NATURAL GAS SERVICE LINE PROVIDED AND DESIGNED BY OTHERS.
- G2. TWO (2) NATURAL GAS METER PROVIDED AND DESIGNED BY OTHERS.
- G3. NATURAL GAS CONNECTION TO BUILDING AND GENERATOR. SEE PLUMBING FOR CONTINUATION.

ALF
CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



KEY PLAN



DATE 04/02/2026	ISSUANCE ISSUED FOR BID
DESIGNED BY	DESCRIPTION

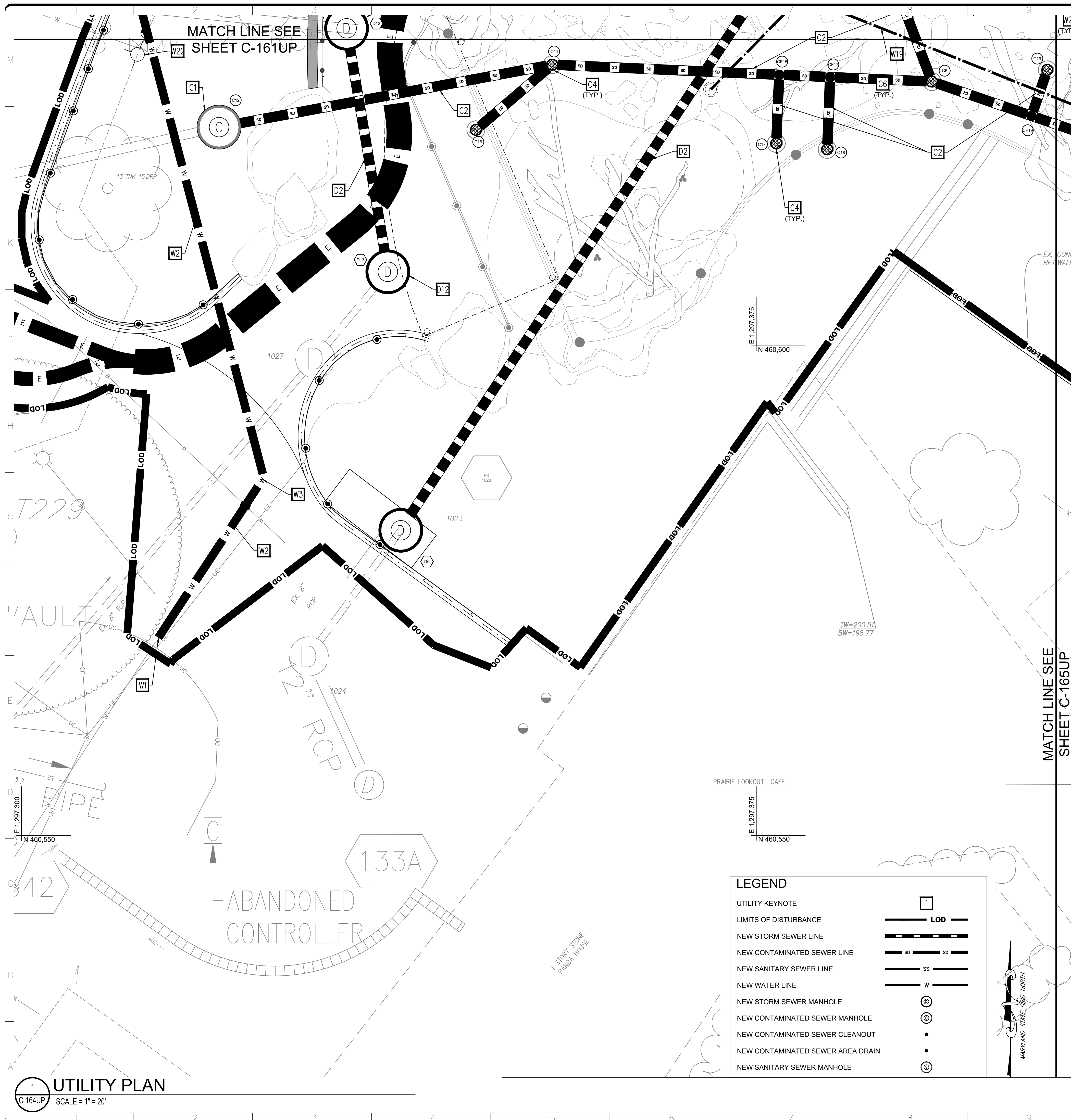
Smithsonian Institution

Smithsonian OPDC
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRIVING TITLE	UTILITY PLAN
DESIGNED BY	ST
DRAWN BY	KK
CHECKED BY	SM
SHEET NO.	C 153 UP
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

3/19/2026 11:19:19 AM
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UTILITY PLAN
 C-163UP SCALE = 1" = 20'



KEYNOTES

- D1. STORM SEWER PRECAST 48-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-515DT FOR DETAIL.
- D2. 12-INCH PVC SCHEDULE 80 STORM SEWER PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
- D3. STORM SEWER NYLOPLAST DRAIN BASIN WITH SOLID COVER. SEE SHEET C-516DT FOR DETAIL.
- D4. STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-516DT FOR DETAIL.
- D5. 18-INCH RCP CLASS IV STORM PIPE. SEE SHEET C-515DT FOR UTILITY TRENCH DETAIL.
- D6. BI-DIRECTION OVERFLOW STRUCTURE DETAIL. SEE SHEET C-507DT FOR DETAIL.
- D7. PIPE PENETRATION THROUGH RETAINING WALL. SEE STRUCTURAL FOR DETAILS.
- D8. 12-INCH X 12-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
- D9. 12-INCH X 6-INCH PVC SCHEDULE 80 STORM PIPE WYE FITTING.
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- D11. STORM TRENCH DRAIN. SEE SHEET C-516DT FOR DETAIL.
- D12. STORM SEWER PRECAST 60-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-516DT FOR DETAIL.
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- S4. 6-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-520DT FOR UTILITY TRENCH DETAIL.
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- C3. CONTAMINATED STORM SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-525DT FOR DETAIL.
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- W22. FIRE HYDRANT. SEE SHEET C-531DT FOR DETAIL.
- W23. POOL SUPPLY FIXTURE. SEE EXHIBIT FOR DETAILS.
- W24. MECHANICAL EQUIPMENT. SEE MECHANICAL FOR DETAILS.
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- G3. NATURAL GAS CONNECTION TO BUILDING AND GENERATOR. SEE PLUMBING FOR CONTINUATION.

LEGEND

UTILITY KEYNOTE	
LIMITS OF DISTURBANCE	
NEW STORM SEWER LINE	
NEW CONTAMINATED SEWER LINE	
NEW SANITARY SEWER LINE	
NEW WATER LINE	
NEW STORM SEWER MANHOLE	
NEW CONTAMINATED SEWER MANHOLE	
NEW CONTAMINATED SEWER CLEANOUT	
NEW CONTAMINATED SEWER AREA DRAIN	
NEW SANITARY SEWER MANHOLE	

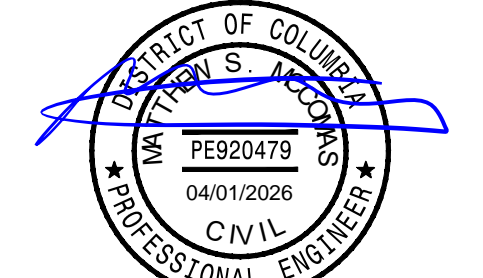
MATCH LINE SEE SHEET C-165UP

MATCH LINE SEE SHEET C-161UP

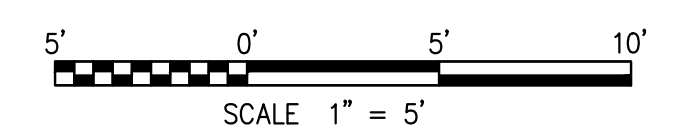
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ALF
CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID

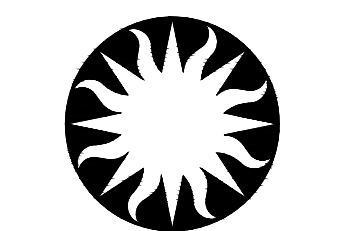


KEY PLAN



GRAPHIC SCALE(S)

DATE 04/02/2026	ISSUANCE ISSUED FOR BID
PROJECT # DATE	PROJECT DESCRIPTION



Smithsonian Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)						
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008						
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)						
OPDC PROJECT NUMBER	2533105						
A/E PROJECT NUMBER	00100084						
DRAWING TITLE	UTILITY PLAN						
WORKING STAFF	<table border="1"> <tr> <td>ST</td> <td>KK</td> <td>SM</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	ST	KK	SM	DESIGNED BY	DRAWN BY	CHECKED BY
ST	KK	SM					
DESIGNED BY	DRAWN BY	CHECKED BY					
SHEET NO.	C 164 UP						
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						

3/12/2026 11:19:19 AM
XX-XXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT

1 UTILITY PLAN
C-164UP SCALE = 1" = 20'