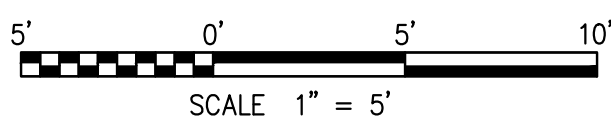
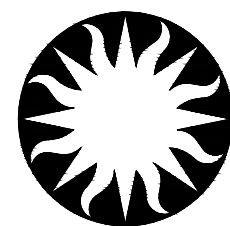


TRUE NORTH

KEY PLAN



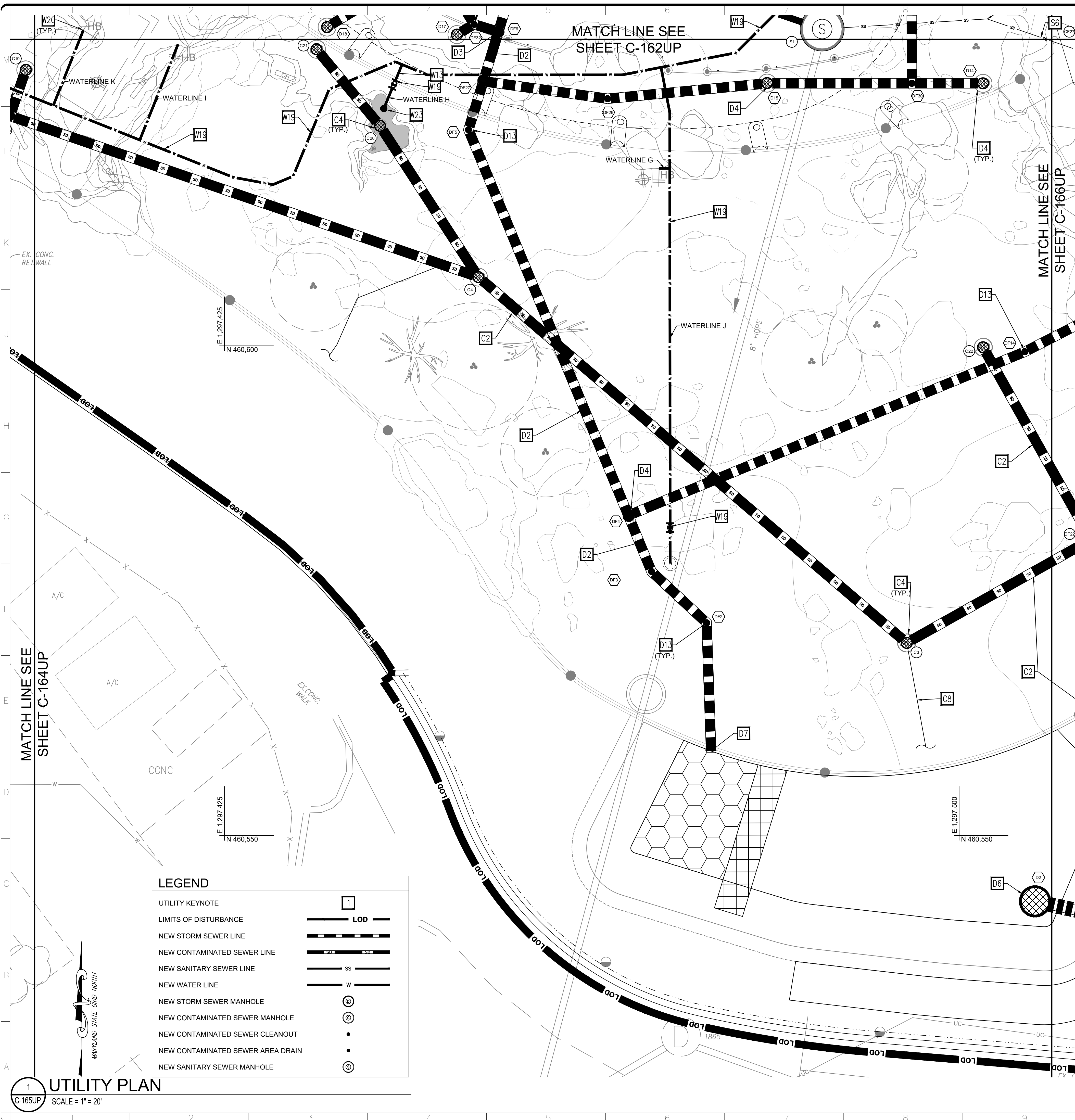
GRAPHIC SCALE(S)

[illegible]

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)		
OPIC PROJECT NUMBER	2533105		
A/E PROJECT NUMBER	00100084		
DRAWING TITLE	UTILITY PLAN		
WORKING STAFF			
SHEET NO.	ST	KK	SM
	DESIGNED BY	DRAWN BY	CHECKED BY
OF	C	165	UP
	PAPER/INCH	1/8" = 1'-0"	SCALE/INCH
			DRAWING CODE



KEYNOTES

- D1. STORM SEWER PRECAST 48-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-5150T FOR DETAIL.
- D2. 12-INCH PVC SCHEDULE 80 STORM SEWER PIPE. SEE SHEET C-5150T FOR UTILITY TRENCH DETAIL.
- D3. STORM SEWER NYLOPLAST DRAIN BASIN WITH SOLID COVER. SEE SHEET C-5160T FOR DETAIL.
- D4. STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-5160T FOR DETAIL.
- D5. 12-INCH RCP CLASS IV STORM PIPE. SEE SHEET C-5151T FOR UTILITY TRENCH DETAIL.
- D6. BIORETENTION OVERFLOW STRUCTURE DETAIL. SEE SHEET C-5070T 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-5160T FOR DETAIL.
- D12. STORM SEWER PRECAST 60-INCH CONCRETE MANHOLE WITH CAST IN PLACE CONCRETE BASE. SEE SHEET C-5160T FOR DETAIL.
- D13. 12-INCH PVC SCHEDULE 80 STORM PIPE CLEANOUT.
- D14. STORMWATER PLANTER OVERFLOW STRUCTURE DETAIL. SEE SHEET C-5070T 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-5200T FOR DETAIL.
- S2. 8-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-5200T FOR UTILITY TRENCH DETAIL.
- S3. SANITARY SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-5200T FOR DETAIL.
- S4. 6-INCH PVC SDR 35 SANITARY SEWER PIPE. SEE SHEET C-5200T 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-5250T FOR DETAIL.
- C2. 12-INCH PVC SCHEDULE 80 CONTAMINATED STORM SEWER PIPE. SEE SHEET C-5250T FOR UTILITY TRENCH DETAIL.
- C3. CONTAMINATED STORM SEWER PRECAST CONCRETE MANHOLE. SEE SHEET C-5250T FOR DETAIL.
- C4. CONTAMINATED STORM SEWER NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE. SEE SHEET C-5250T 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-5250T FOR DETAIL.
- C8. RETAINING WALL DRAINAGE CONVEYANCE PIPE TO CONTAMINATED STORM SEWER.
- W1. 10-INCH MJ DIP CLASS 56 SLEEVE (LONG TYPE) CONNECTION TO EXISTING 10-INCH DOMESTIC WATER LINE WITH INLINE CONCRETE THRUST BLOCK. SEE SHEET C-5310T FOR DETAIL.
- W2. 10-INCH MJ DIP CLASS 56 RESTRAINED JOINT WATER LINE. SEE SHEET C-5300T FOR UTILITY TRENCH DETAIL.
- W3. 10-INCH DIP 45-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-5300T FOR DETAIL.
- W4. 10-INCH DIP 22.5-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-5300T FOR DETAIL.
- W5. 10-INCH DIP 11.25-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-5300T FOR DETAIL.
- W6. 6-INCH MJ DIP CLASS 56 SLEEVE (LONG TYPE) CONNECTION TO EXISTING 6-INCH DOMESTIC WATER LINE WITH INLINE CONCRETE THRUST BLOCK. SEE SHEET C-5310T FOR DETAIL.
- W7. 6-INCH MJ DIP CLASS 56 RESTRAINED JOINT WATER LINE. SEE SHEET C-5300T FOR UTILITY TRENCH DETAIL.
- W8. 6-INCH DIP 45-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-5300T FOR DETAIL.
- W9. 6-INCH DIP 11.25-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-5300T 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-5300T FOR DETAIL.
- W11. 3-INCH MJ DIP CLASS 56 RESTRAINED JOINT DOMESTIC WATER SERVICE LINE. SEE SHEET C-5300T FOR UTILITY TRENCH DETAIL.
- W12. 6-INCH DIP 90-DEGREE BEND FITTING WITH CONCRETE THRUST BLOCK. SEE SHEET C-5300T FOR DETAIL.
- W13. 3-INCH GATE VALVE. SEE SHEET C-5310T FOR DETAIL.
- W14. DOMESTIC WATER SERVICE CONNECTION TO BUILDING. SEE PLUMBING FOR CONTINUATION.
- W15. 6-INCH MJ DIP CLASS 56 RESTRAINED JOINT FIRE WATER SERVICE LINE. SEE SHEET C-5300T FOR UTILITY TRENCH DETAIL.
- W16. 6-INCH POST INDICATOR VALVE. SEE SHEET C-5300T 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-5300T FOR UTILITY TRENCH DETAIL.
- W20. HOSE BIB. SEE EXHIBIT FOR DETAILS.
- W21. DRINKER. SEE EXHIBIT FOR DETAILS.
- W22. FIRE HYDRANT. SEE SHEET C-5310T 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

LEGEND

UTILITY KEYNOTE

LIMITS OF DISTURBANCE

NEW STORM SEWER LINE

NEW CONTAMINATED SEWER

NEW SANITARY SE

NEW WATER LINE

NEW STORM SEWER MANHOLE

NEW CONTAMINATED SEWER MANHOLE

NEW CONTAMINATED SEWER CLEANOUT

NEW CONTAMINATED SEWER ARE

NEW SANITARY SEWER MANHOLE

1

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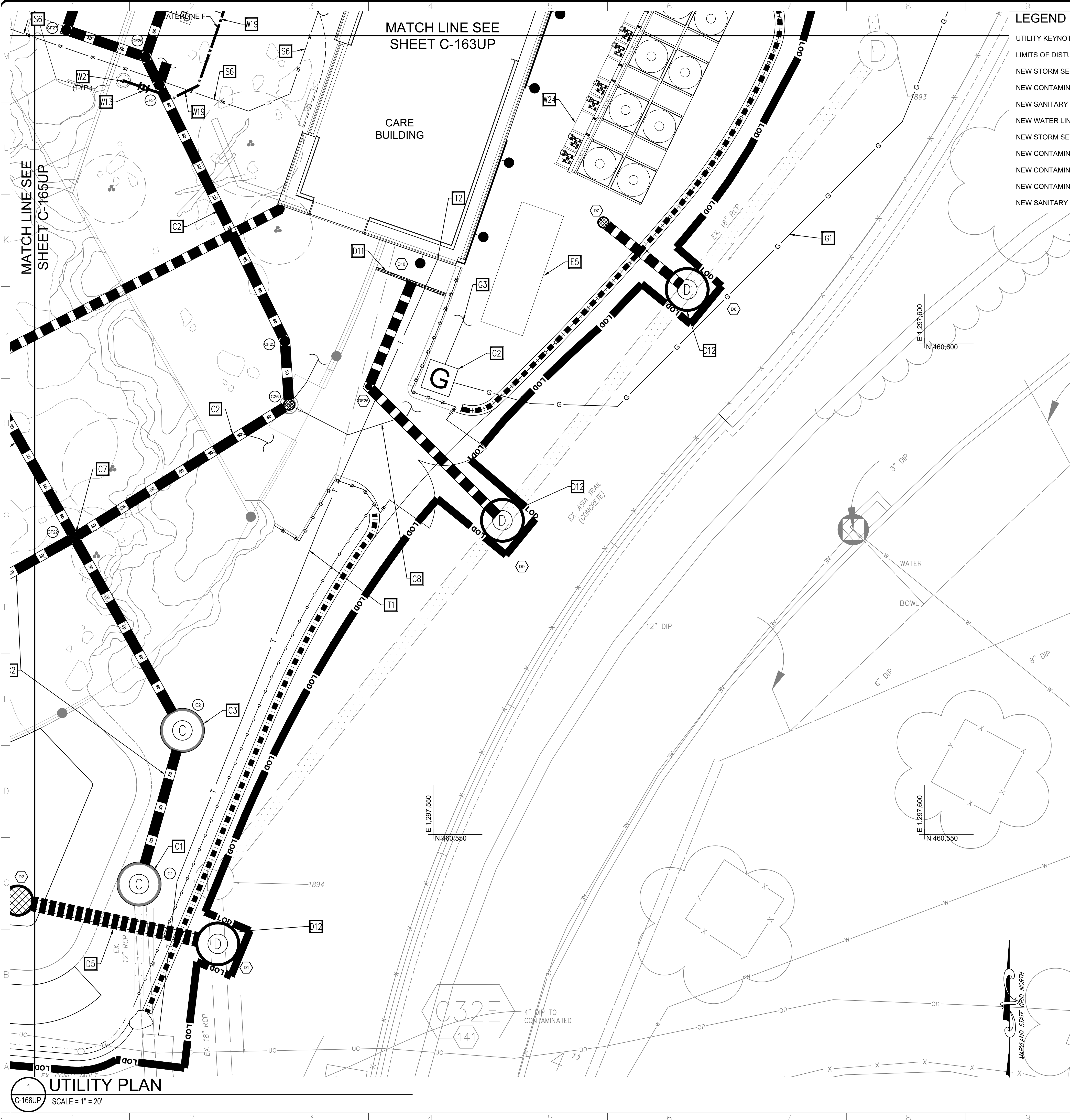
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UTILITY PLAN

SCALE = 1" = 20'

3/13/2028 11:19:19 AM
XX-XXXXX BY Approver 03/16/2028 35% DESIGN DEVELOPMENT



LEGEND

UTILITY KEYNOTE

LIMITS OF DISTURBANCE

NEW STORM SEWER LINE

NEW CONTAMINATED SEWER LINE

NEW SANITARY SEWER LINE

NEW WATER LINE

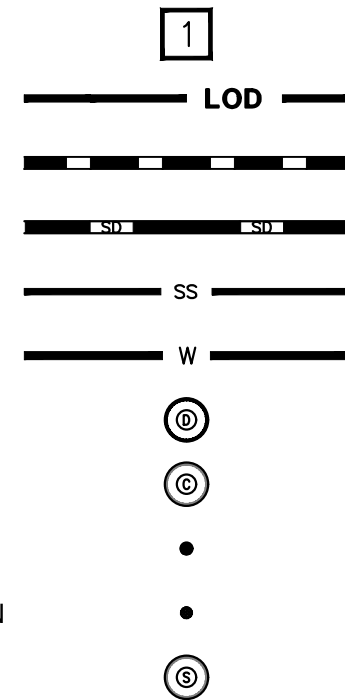
NEW STORM SEWER MANHOLE

NEW CONTAMINATED SEWER MANHOLE

NEW CONTAMINATED SEWER CLEANOUT

NEW CONTAMINATED SEWER AREA DRAIN

NEW SANITARY SEWER MANHOLE



DOB PERMIT STAMP

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 MJ DIP 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 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.
W6. 6-INCH MJ DIP 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 MJ DIP 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 MJ DIP 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 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

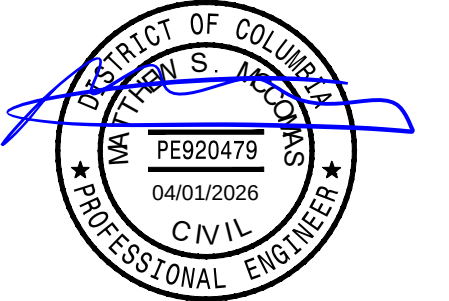
E1. 4-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
E2. 8-WAY 4-INCH CONDUIT ENCASED LOW VOLTAGE ELECTRIC DUCTBANK. SEE ELECTRICAL FOR DETAILS.
E3. SITE ELECTRIC STRUCTURE. SEE ELECTRICAL FOR DETAILS.
E4. ELECTRICAL CONNECTION TO BUILDING. SEE ELECTRICAL FOR CONTINUATION.
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.

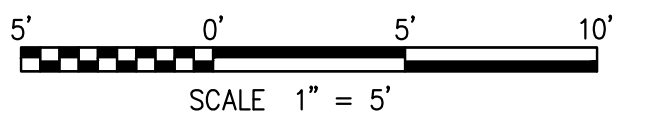
ALF

CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



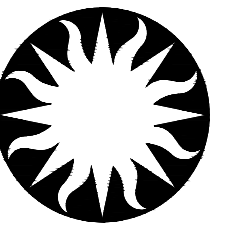
KEY PLAN



SCALE 1" = 5'

GRAPHIC SCALE(S)

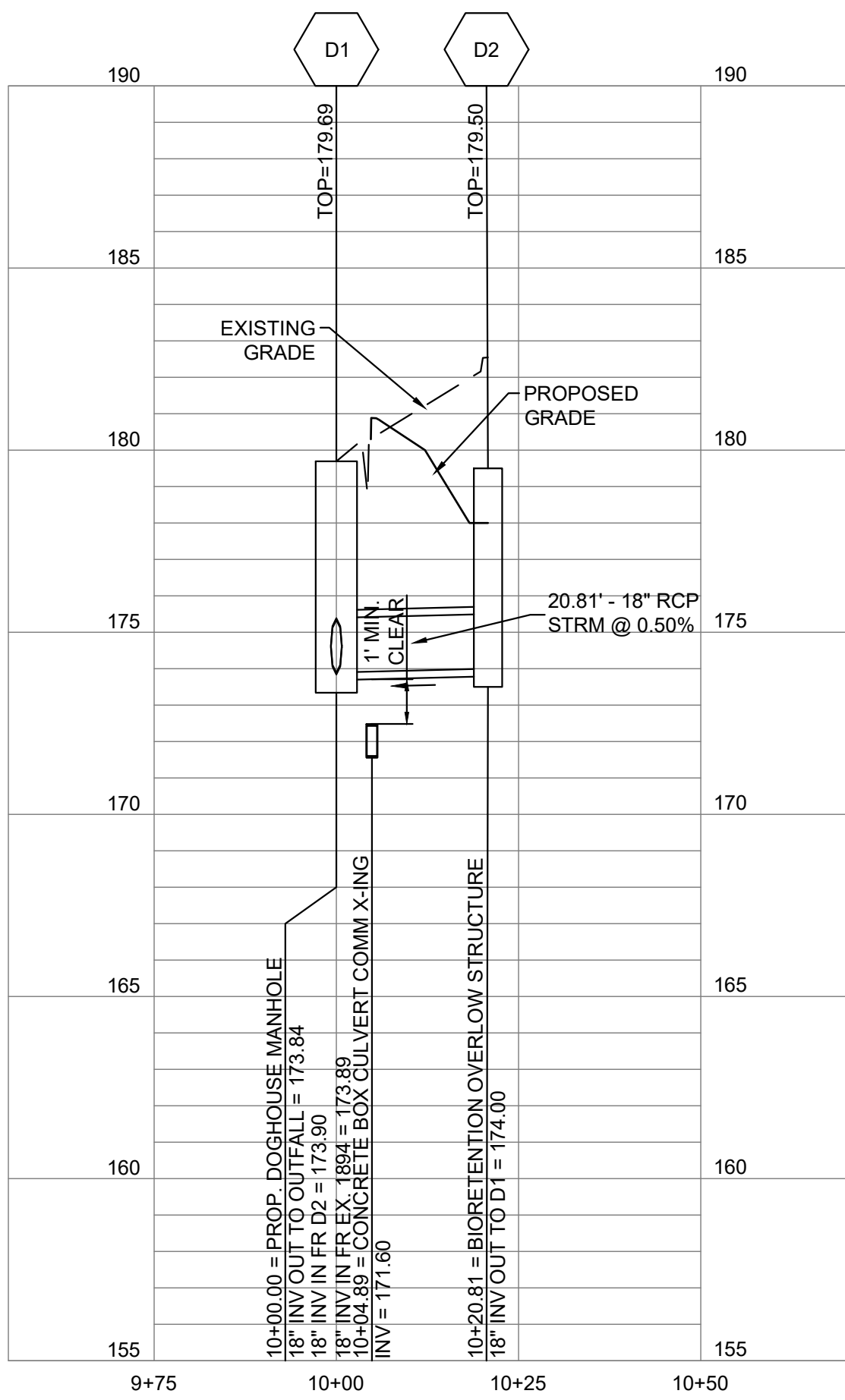
DATE	SUBMISSION
04/02/2026	ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



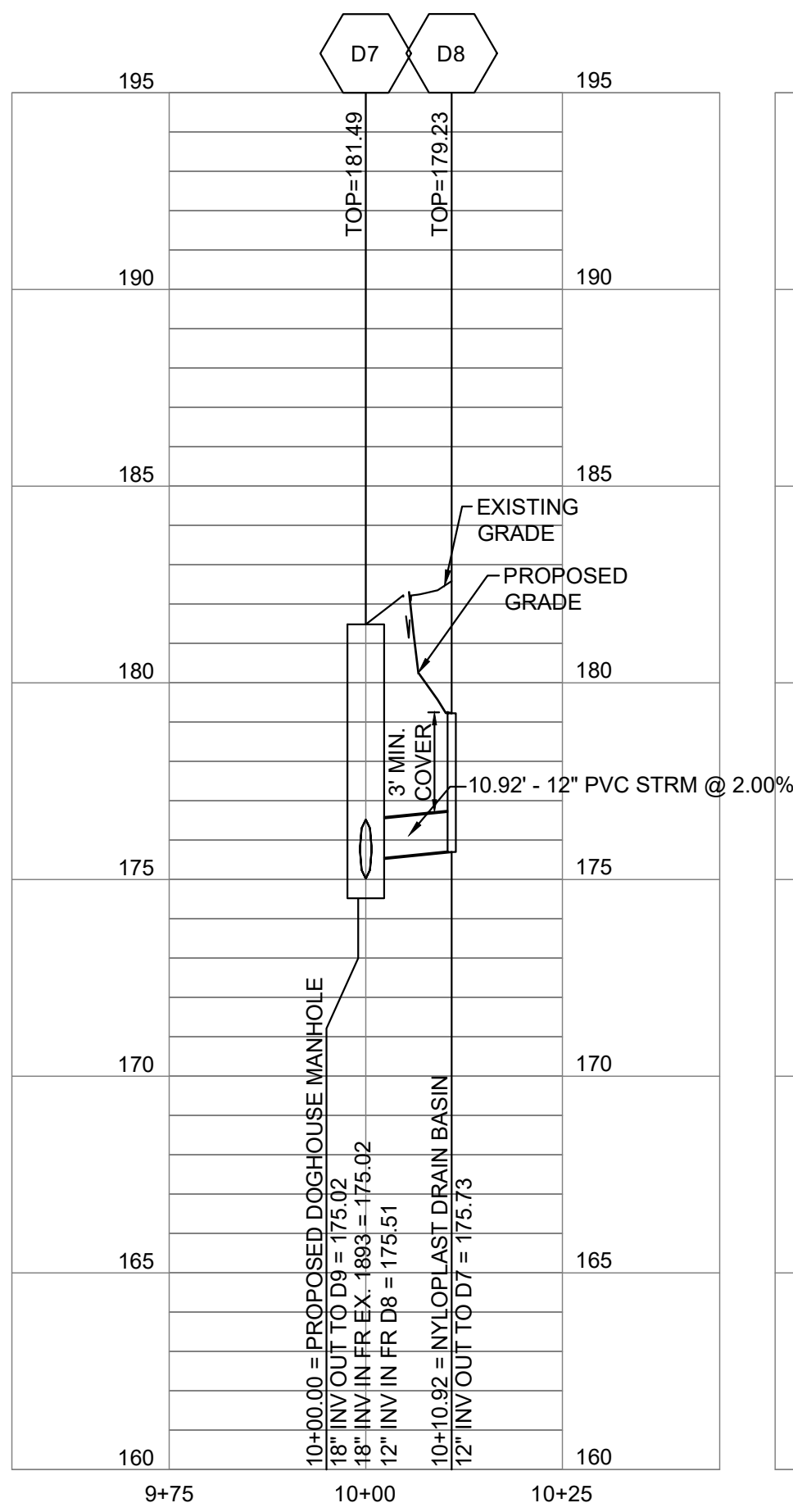
Smithsonian
Institution

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

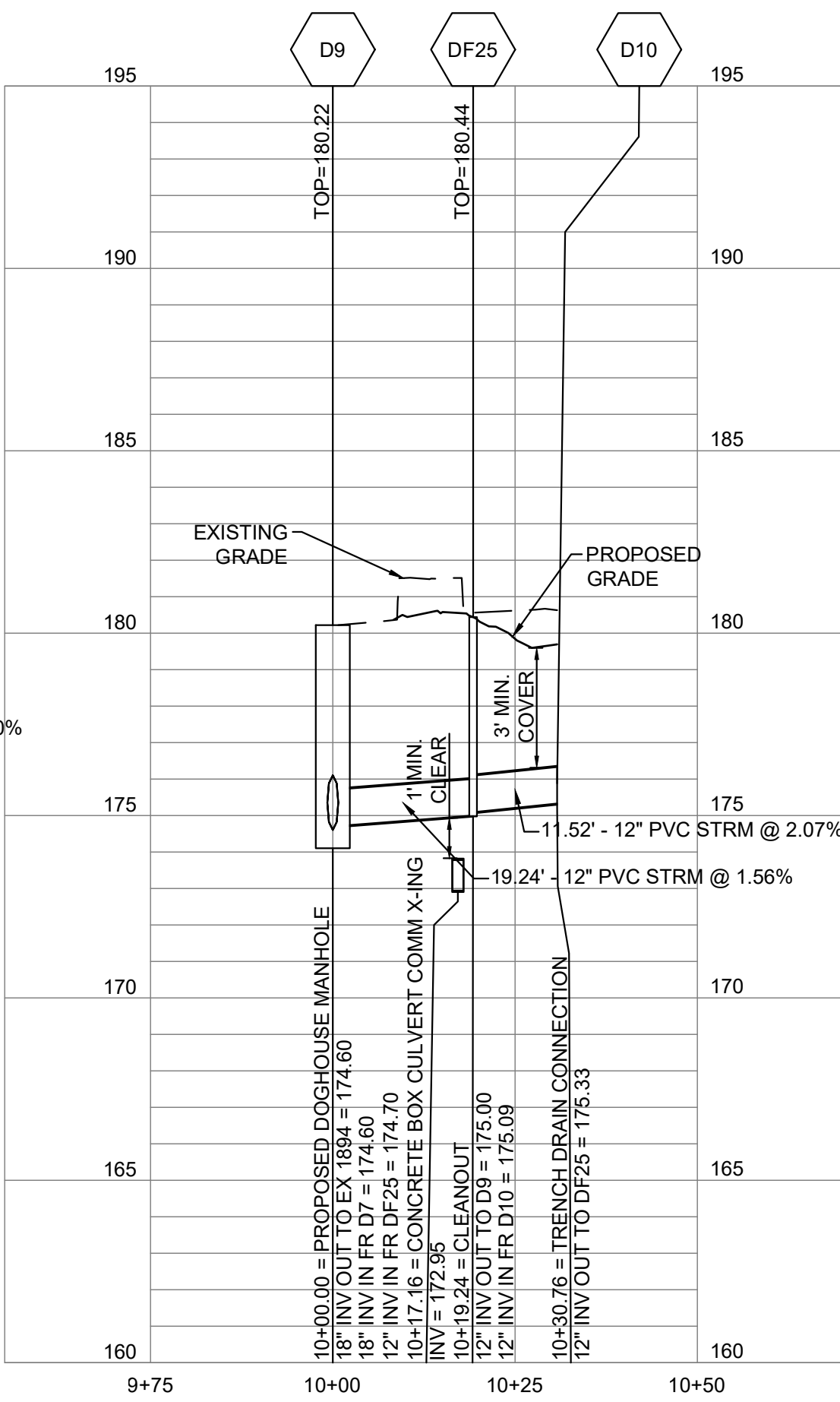
BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	UTILITY PLAN
WORKING STAFF	ST KK SM
SHEET NO.	C 1 66 UP
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE



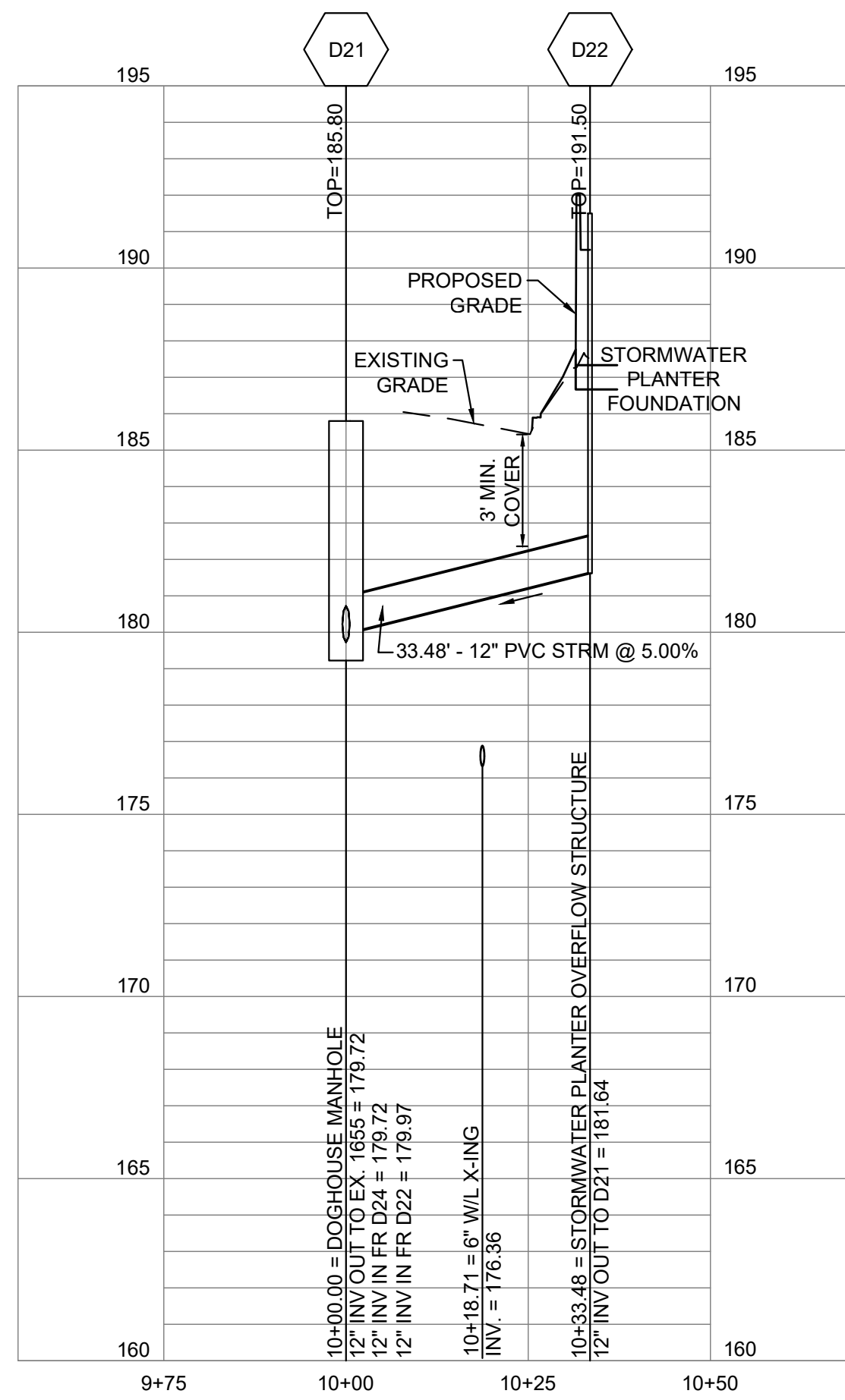
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D1 TO D2:
PROFILE: STA 10+00 TO 10+20.81
C-200UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



2
D7 TO D8:
PROFILE: STA 10+00 TO 10+10.92
C-200UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



3
D9 TO D10:
PROFILE: STA 10+00 TO 10+30.76
C-200UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



4
D21 TO D22:
PROFILE: STA 10+00 TO 10+33.48
C-200UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'

TEST PITS ARE REQUIRED AT ALL LOCATION(S) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATION(S) TO IDENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE OWNER IS TO BE NOTIFIED OF THIS INFORMATION.

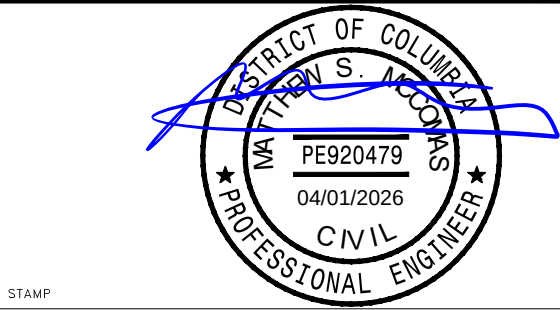
GENERAL NOTE:
REFER TO EXHIBIT FOR HABITAT ROCK GRADE.

DOB PERMIT STAMP

ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

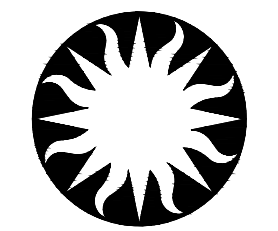
ISSUED FOR BID



KEY PLAN

GRAPHIC SCALE(S)

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

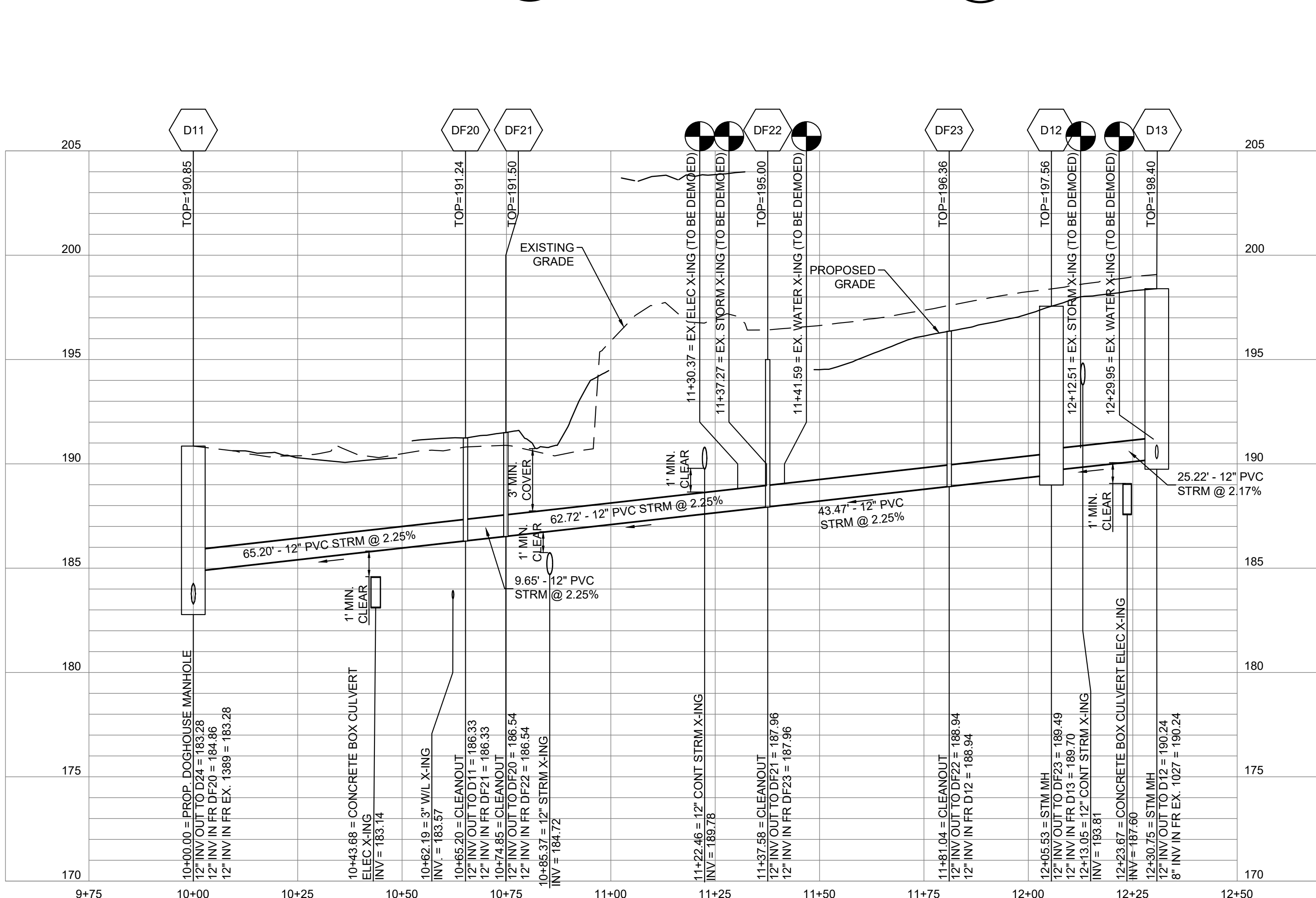


Smithsonian Institution

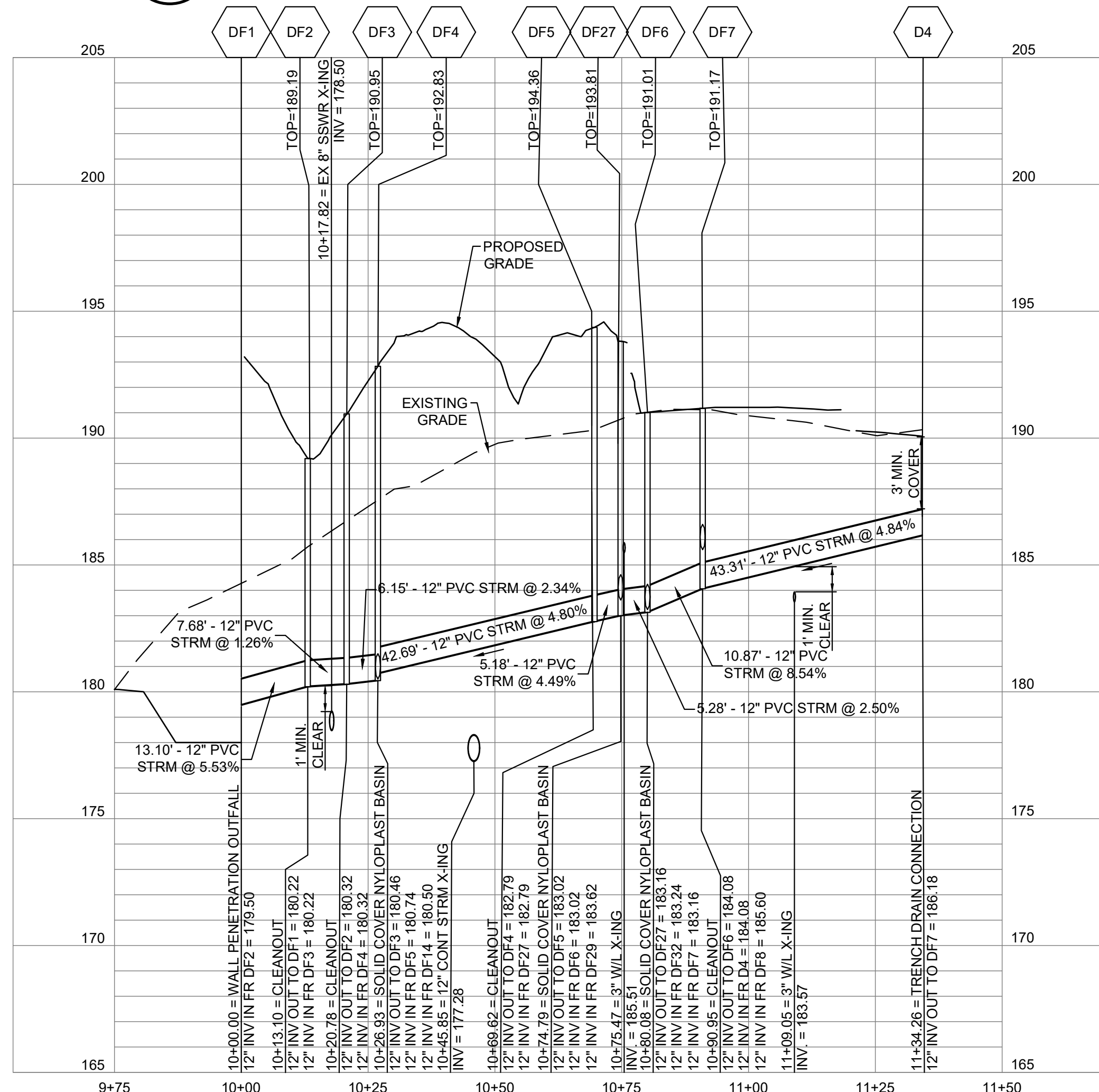
Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

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

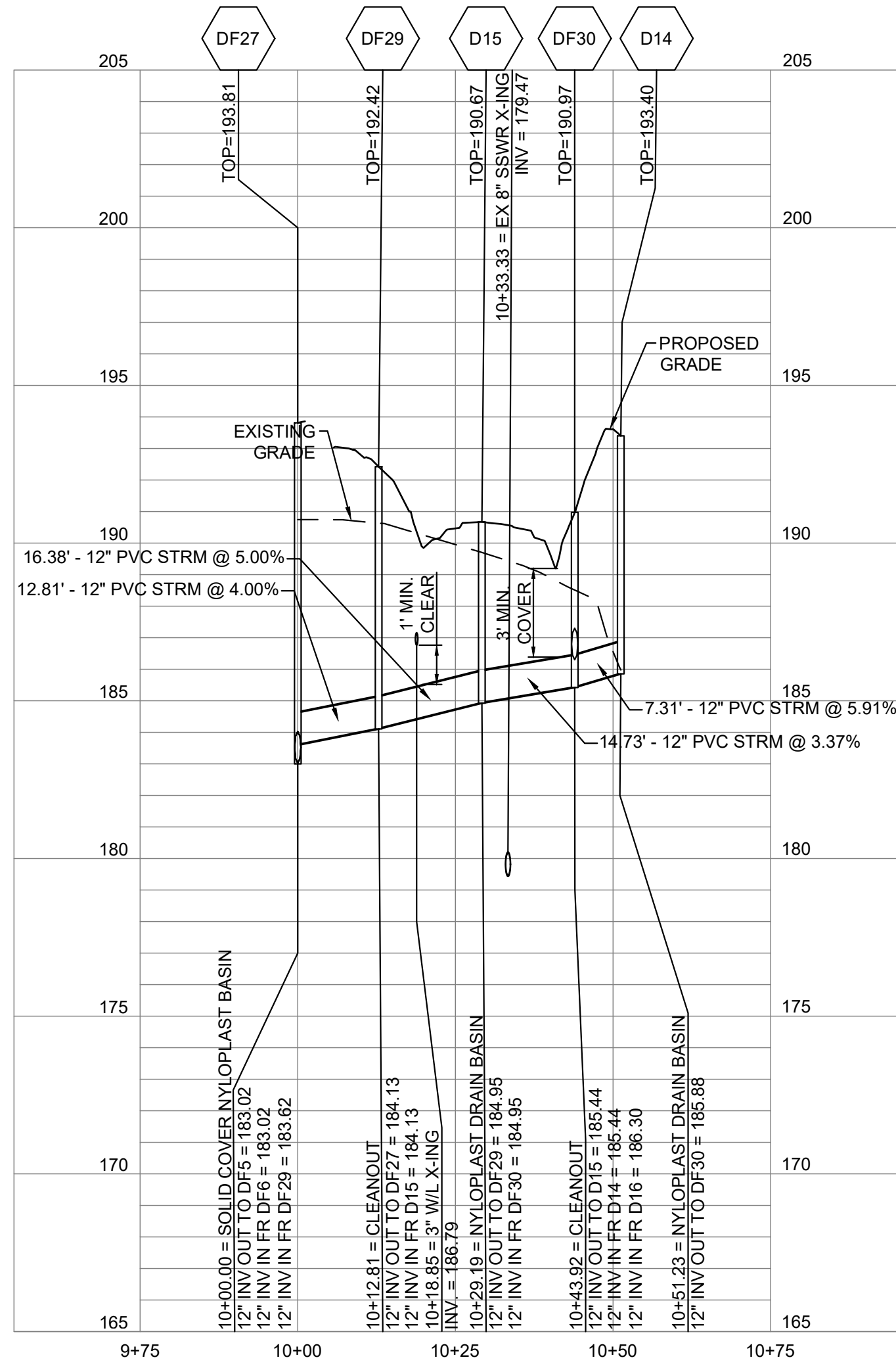
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SHEET NO.	C 200 UP	OF



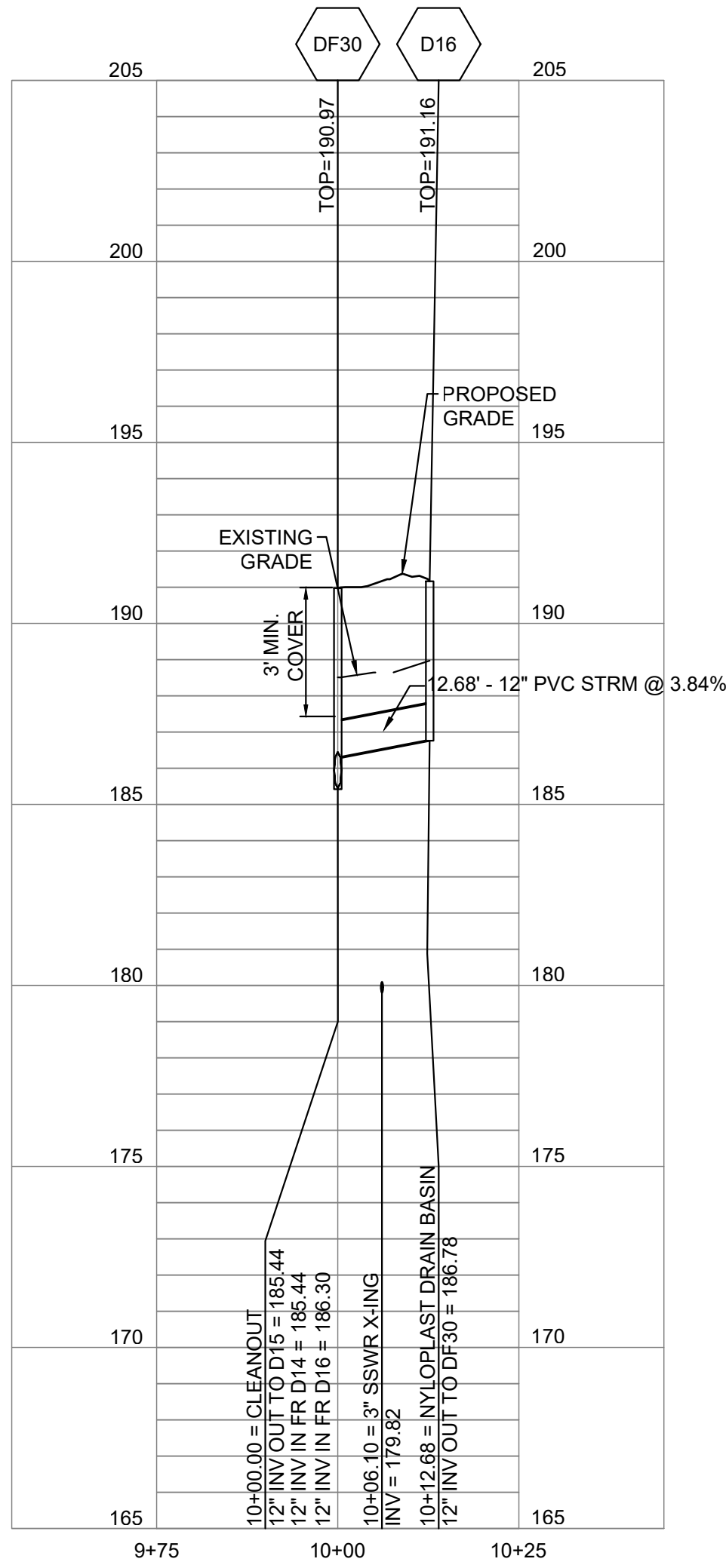
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D11 TO D13:
PROFILE: STA 10+00 TO 12+30.75
C-200UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



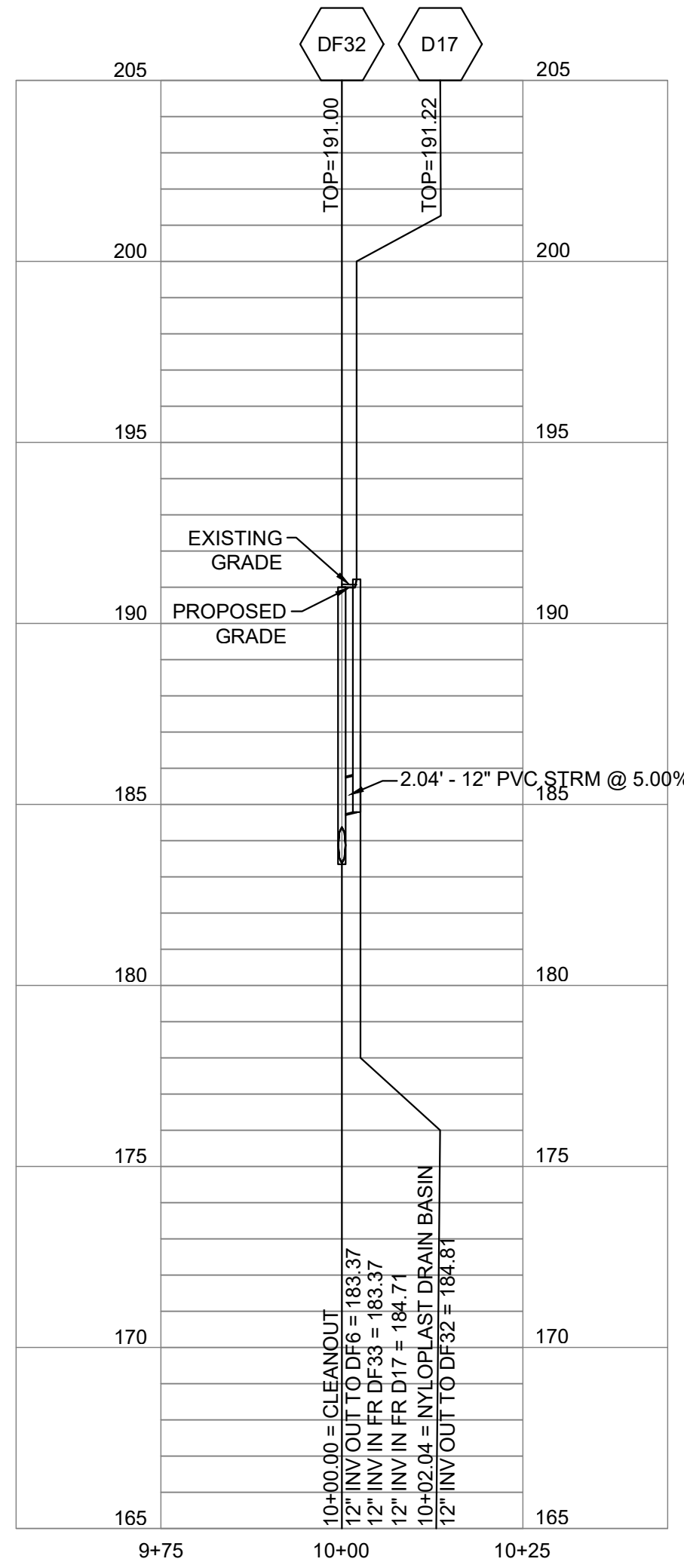
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D1 TO D4:
PROFILE: STA 10+00 TO 11+34.26
C-200UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



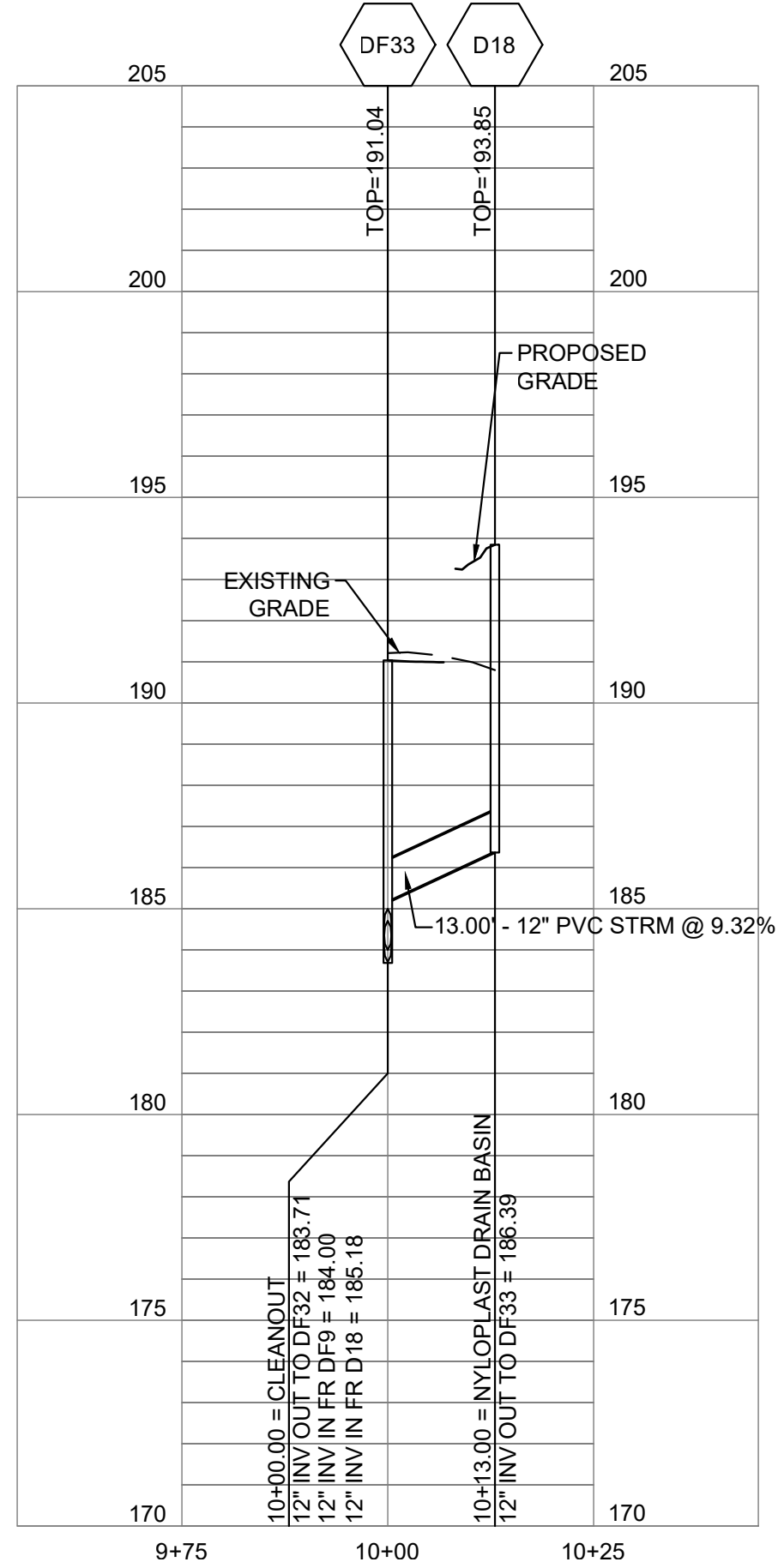
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C-202UP
DF27 TO D14:
PROFILE: STA 10+00 TO 10+51.23
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



2
C-202UP
DF30 TO D16:
PROFILE: STA 10+00 TO 10+12.68
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



3
C-202UP
DF32 TO D17:
PROFILE: STA 10+00 TO 10+02.04
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



4
C-202UP
DF33 TO D18:
PROFILE: STA 10+00 TO 10+13.00
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'

DOB PERMIT STAMP

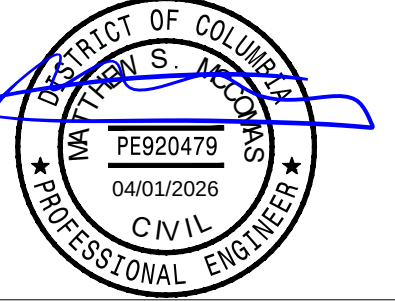
TEST PITS ARE REQUIRED AT ALL LOCATION(S) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATION(S) TO IDENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE OWNER IS TO BE NOTIFIED OF THIS INFORMATION.

GENERAL NOTE:
REFER TO EXHIBIT FOR HABITAT ROCK GRADE.

ALF

CONSTRUCT
ARABIAN LEOPARD
FACILITY

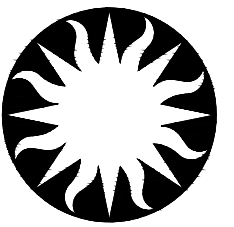
ISSUED FOR BID



KEY PLAN

GRAPHIC SCALE(S)

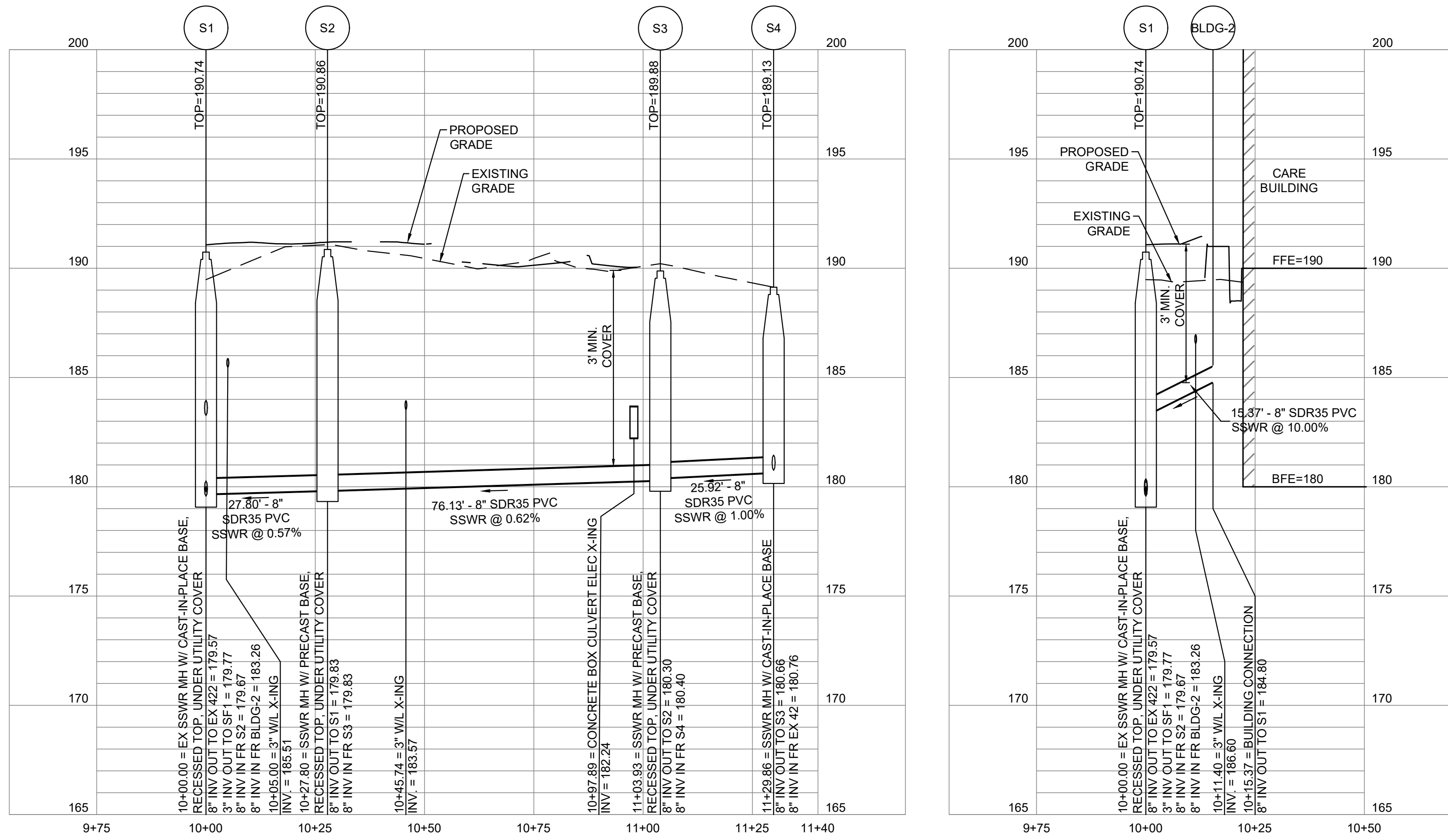
DATE 04/02/2026	REVISION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



Smithsonian
Institution

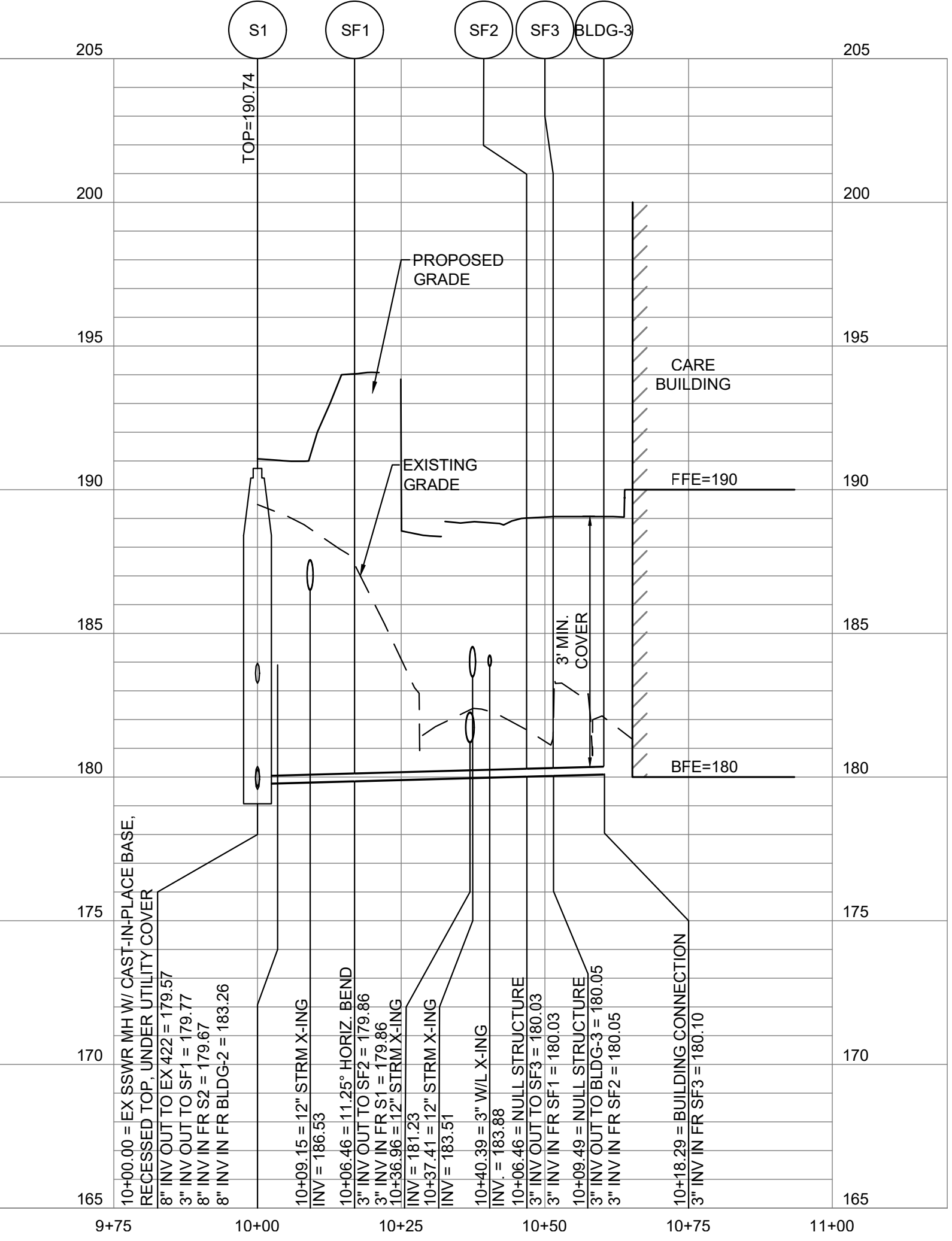
Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME ADDRESS	ARABIAN LEOPARD FACILITY (ALF) 3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE OPDC PROJECT NUMBER A/E PROJECT NUMBER	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) 2533105 00100084
DRAWING TITLE WORKING STAFF	STORM PROFILES ST KK SM DESIGNED BY DRAWN BY CHECKED BY
SHEET NO. OF	C 2 02 UP DISCIPLINE TYPE SEQUENCE DRAWING TYPE



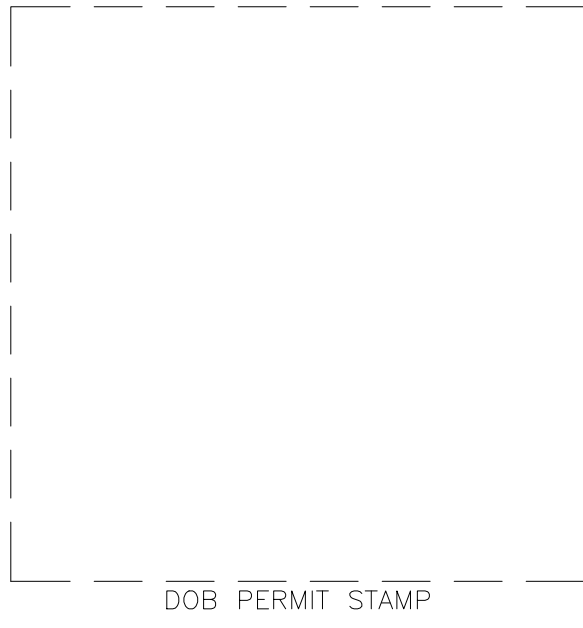
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PROFILE: STA 10+00 TO 11+29.86
C-205UP SCALE : HORIZ 1" = 20'
SCALE : VERT 1" = 4'

2 S1 TO BUILDING:
PROFILE: STA 10+00 TO 10+15.37
C-205UP SCALE : HORIZ 1" = 20'
SCALE : VERT 1" = 4'



3 FORCE MAIN: S1 TO BUILDING:
PROFILE: STA 10+00 TO 10+18.29
C-205UP SCALE : HORIZ 1" = 20'
SCALE : VERT 1" = 4'

NOTE: SIZE AND MATERIAL OF
SANITARY FORCE MAIN PIPES ARE
DEFERRED TO PLUMBING.

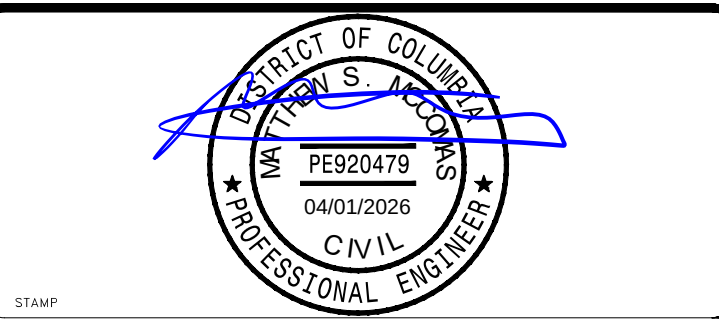


GENERAL NOTE:
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ROCK GRADE.

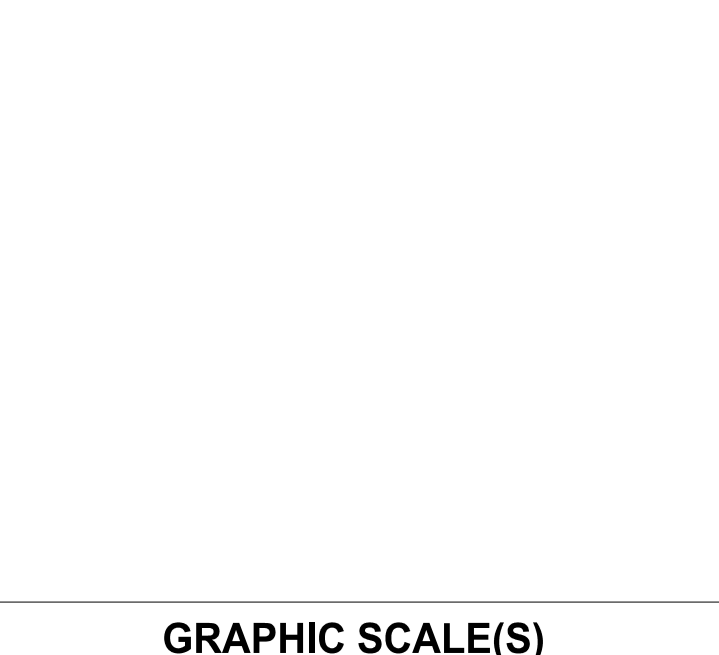
ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID



KEY PLAN



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

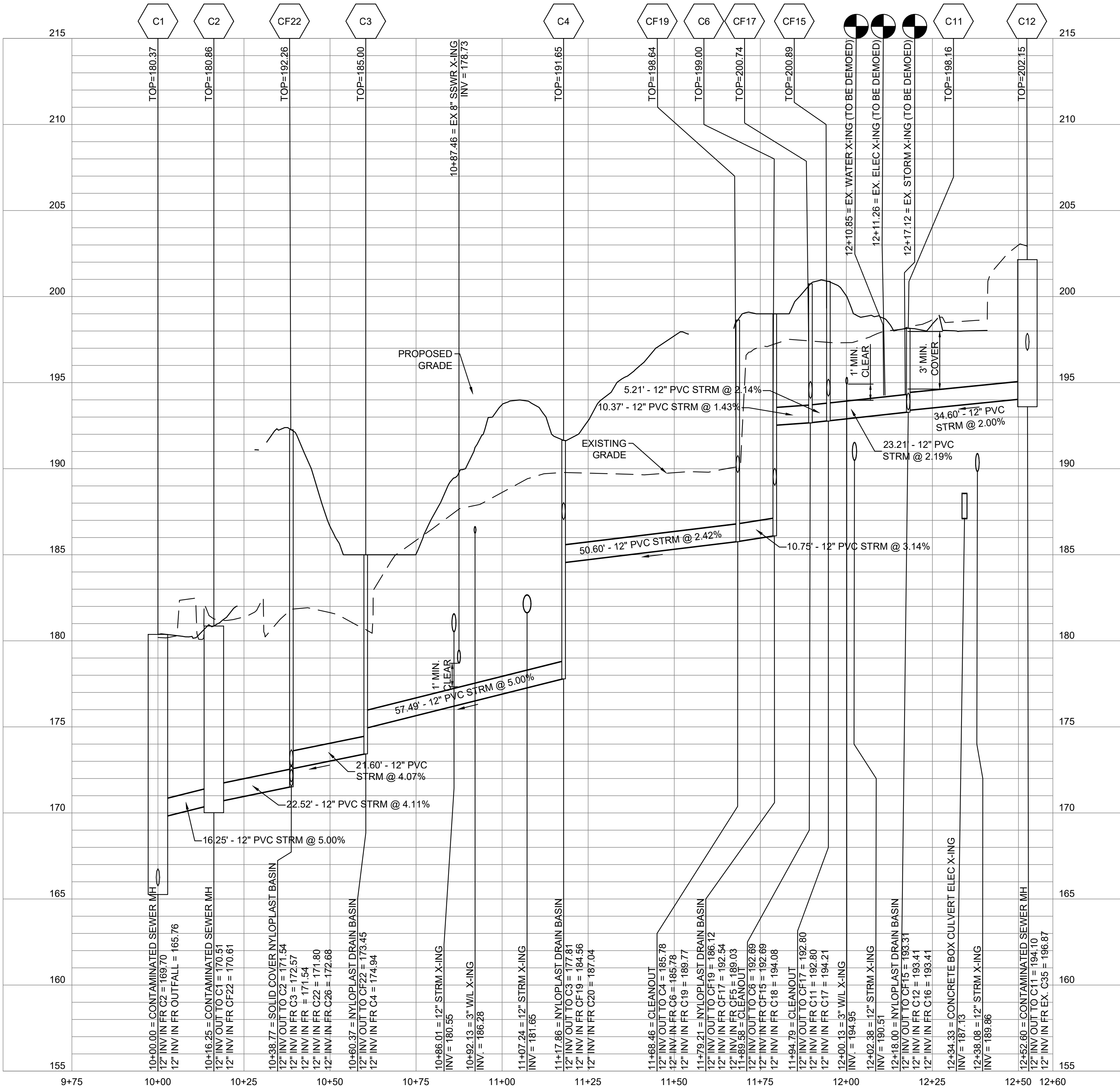
Smithsonian
Institution

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Washington, DC 20024-2520

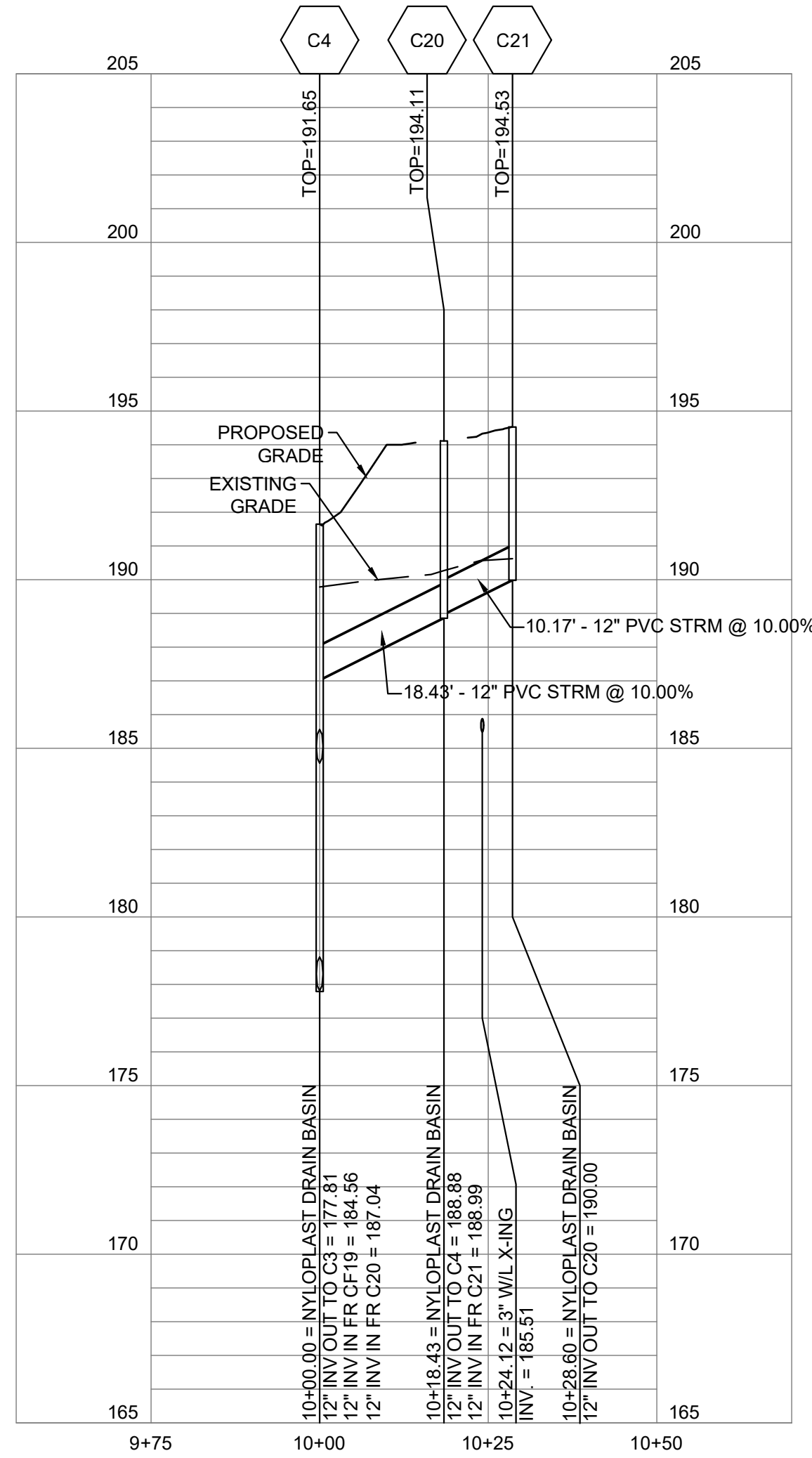
BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084

DESIGNED BY	DRAWN BY	CHECKED BY
ST	KK	SM

SHEET NO. C 2 05 UP
OF DISCIPLINE TYPE SEQUENCE DRAWING TYPE



1
C-210UP
C1 TO C12:
PROFILE: STA 10+00 TO 12+52.60
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



2
C-210UP
C4 TO C21:
PROFILE: STA 10+00 TO 10+28.60
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'

GENERAL NOTE:
REFER TO EXHIBIT FOR HABITAT
ROCK GRADE.

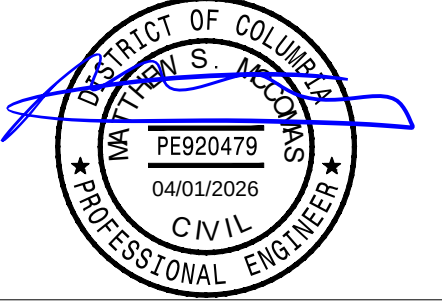
DOB PERMIT STAMP

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ARABIAN LEOPARD
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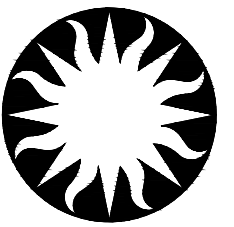
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KEY PLAN

GRAPHIC SCALE(S)

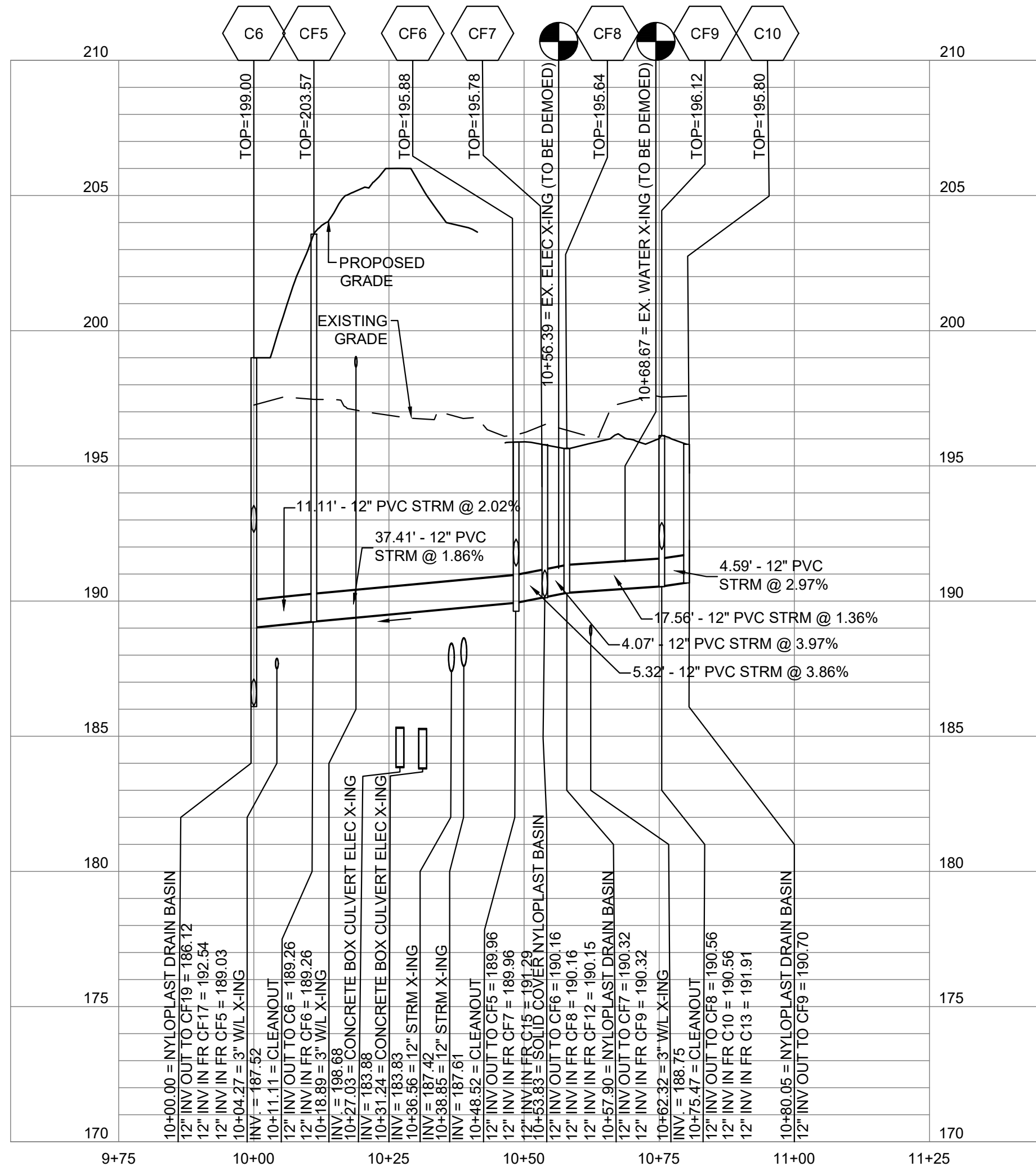
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04/02/2026	ISSUED FOR BID
REVISION #	DESCRIPTION



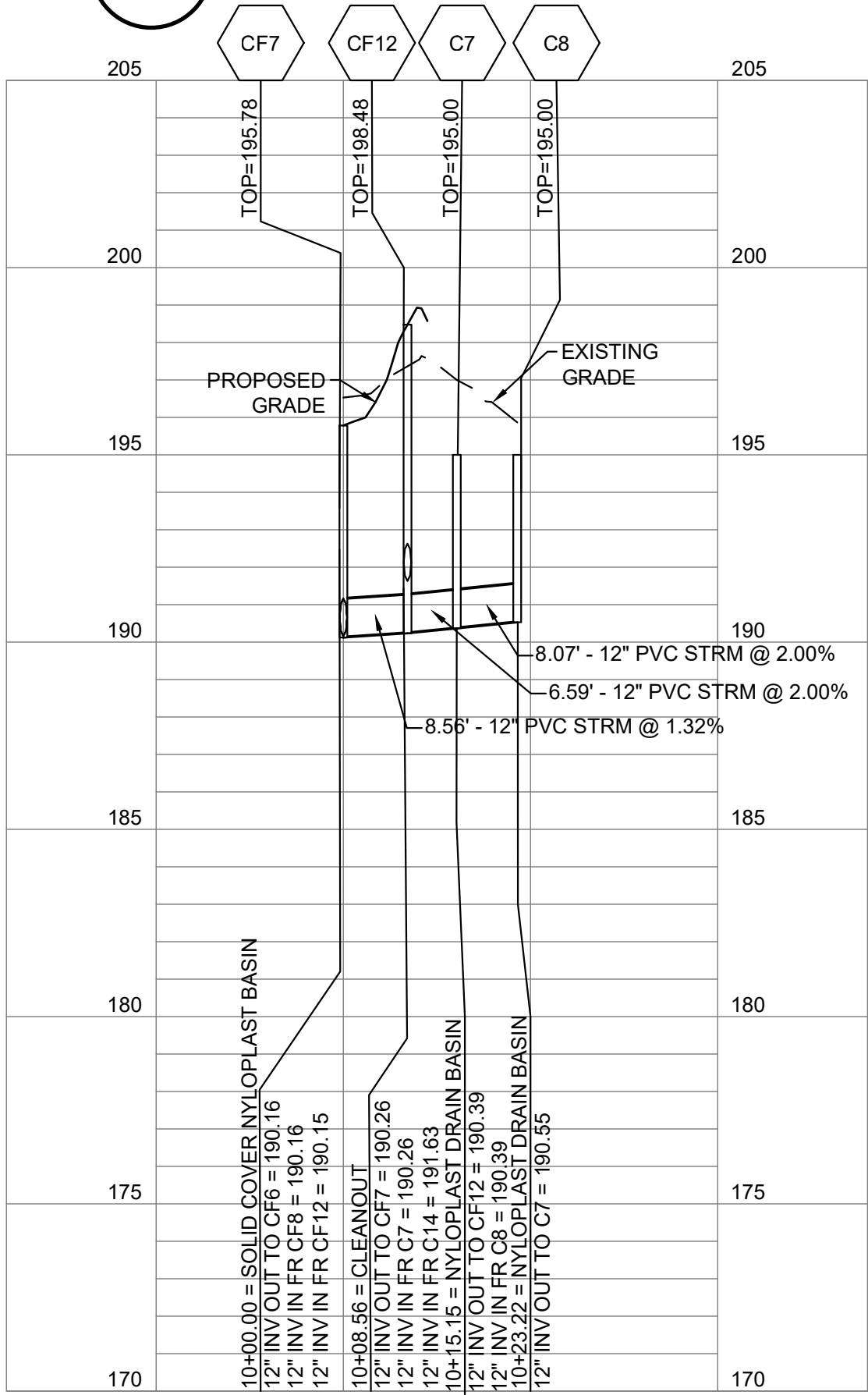
Smithsonian
Institution

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

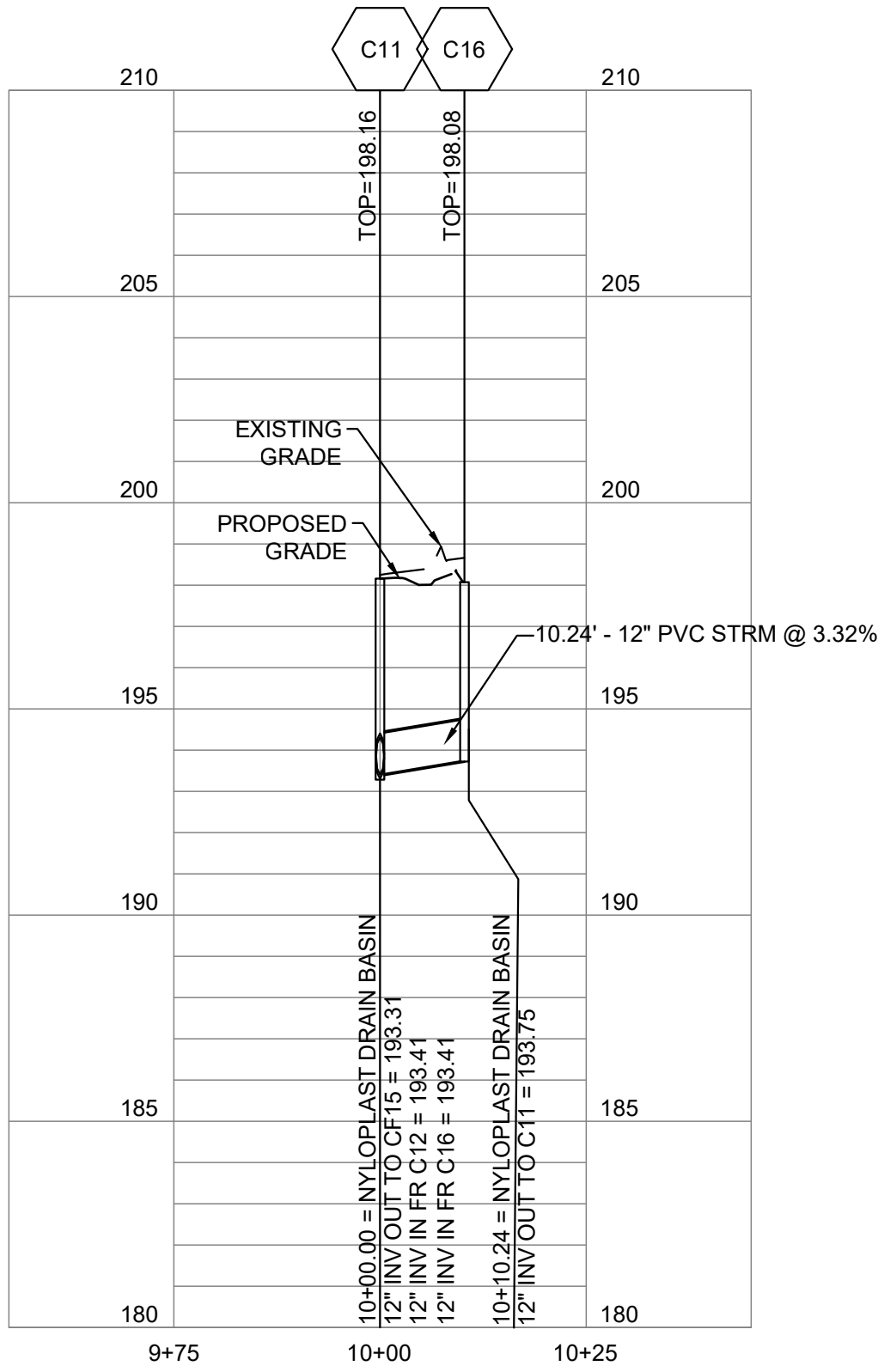
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ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008		
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)		
OPDC PROJECT NUMBER	2533105		
A/E/C PROJECT NUMBER	00100084		
DRAWING TITLE	CONTAMINATED STORM SEWER PROFILES		
WORKING STAFF	DESIGNED BY	DRAWN BY	CHECKED BY
	ST	KK	SM
SHEET NO.	C 2 10 UP		
OF			
	DISCIPLINE	TYPE	SEQUENCE



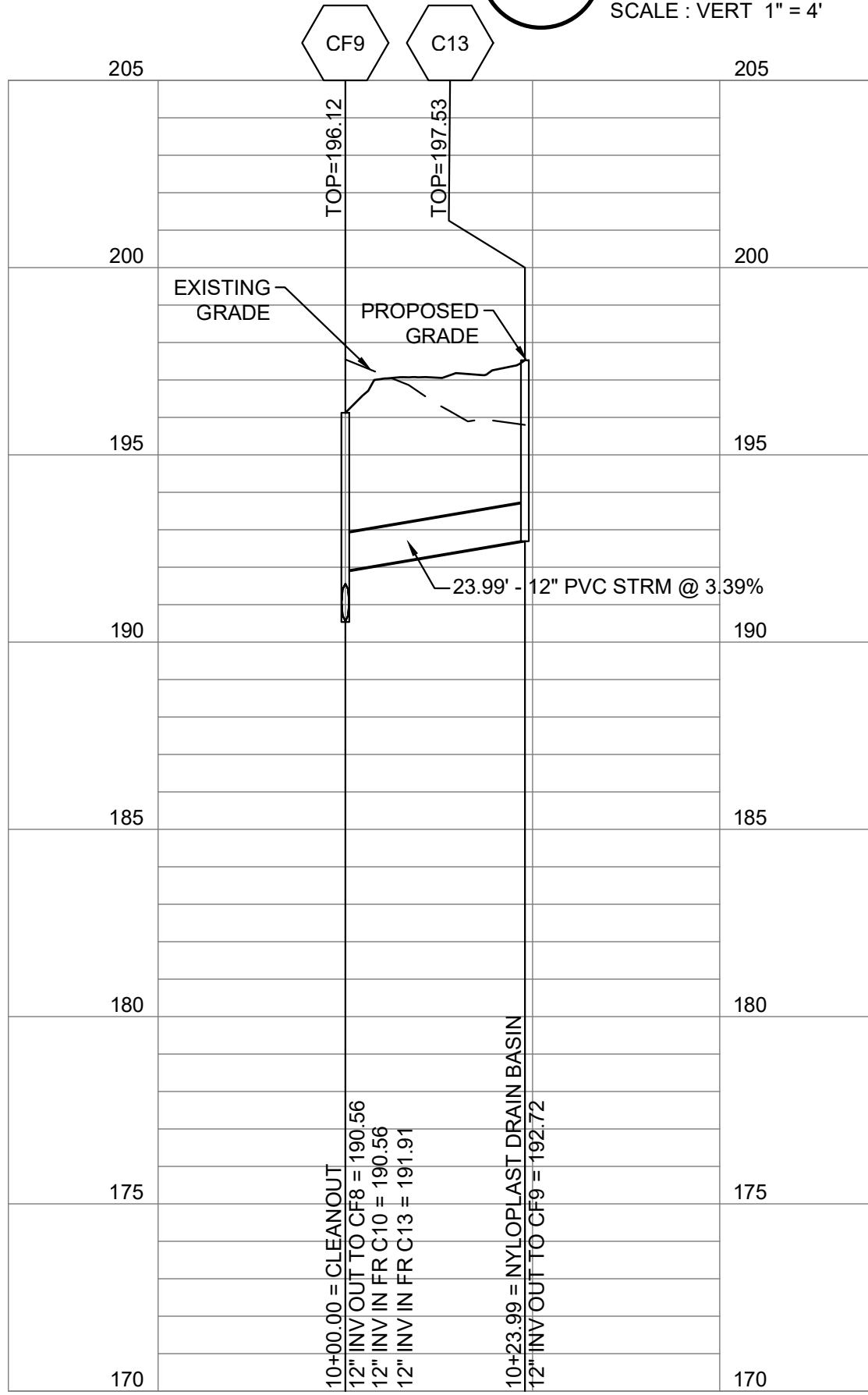
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C6 TO C10:
PROFILE: STA 10+00 TO 10+80.05
C-211UP SCALE: HORIZ 1" = 20' SCALE: VERT 1" = 4'



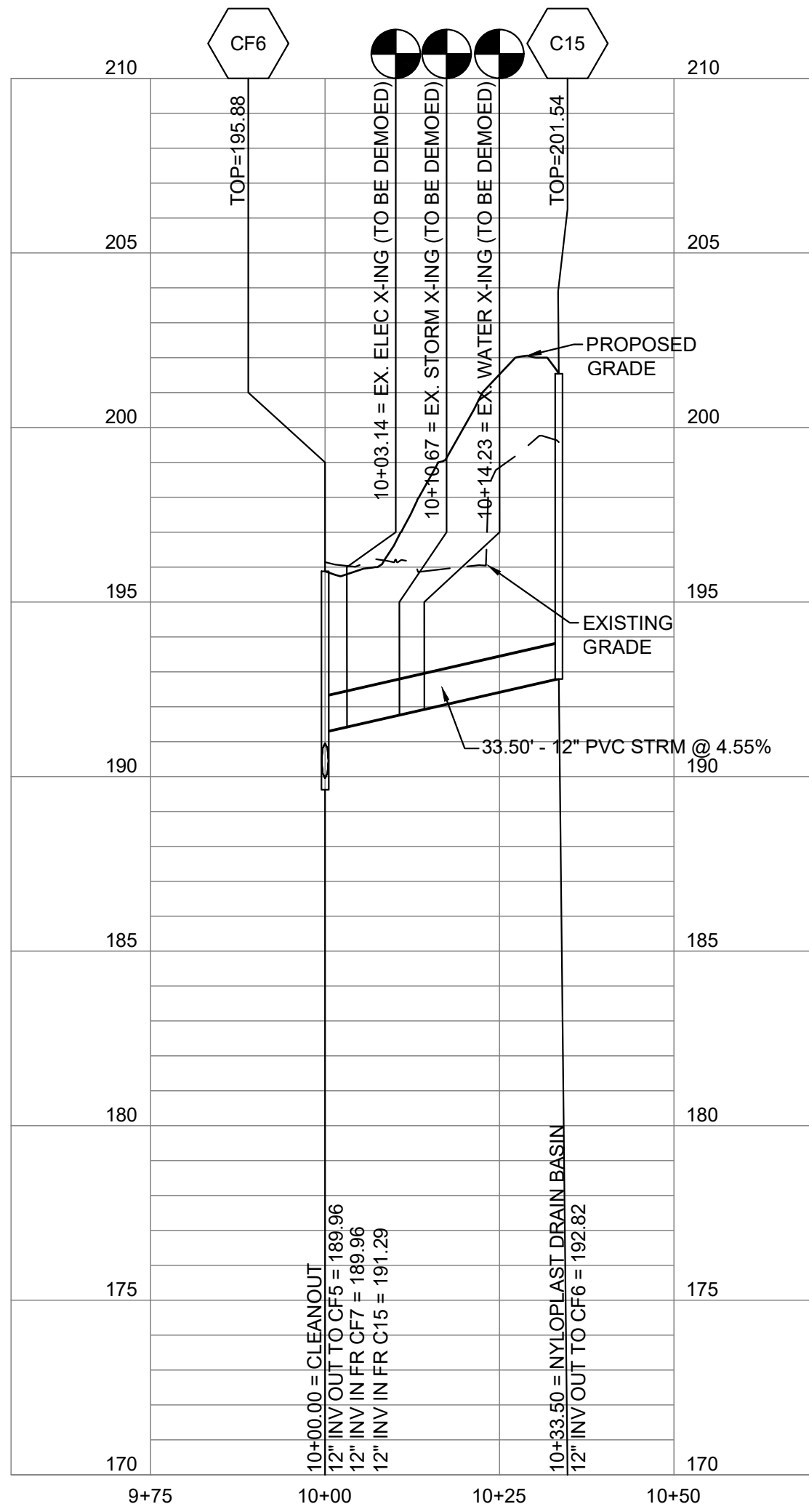
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CF7 TO C8:
PROFILE: STA 10+00 TO 10+23.22
C-211UP SCALE: HORIZ 1" = 20' SCALE: VERT 1" = 4'



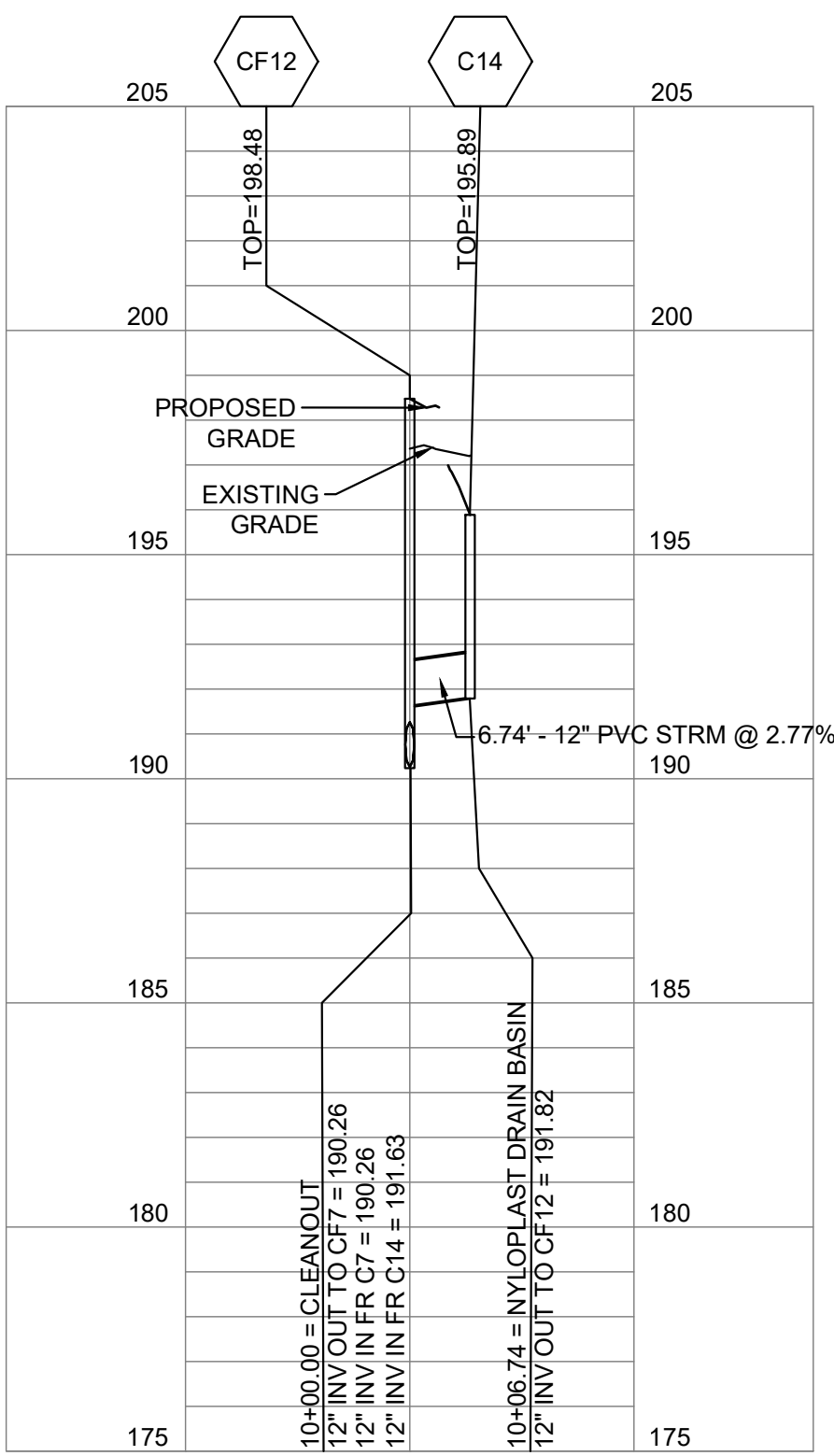
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C11 TO C16:
PROFILE: STA 10+00 TO 10+10.24
C-211UP SCALE: HORIZ 1" = 20' SCALE: VERT 1" = 4'



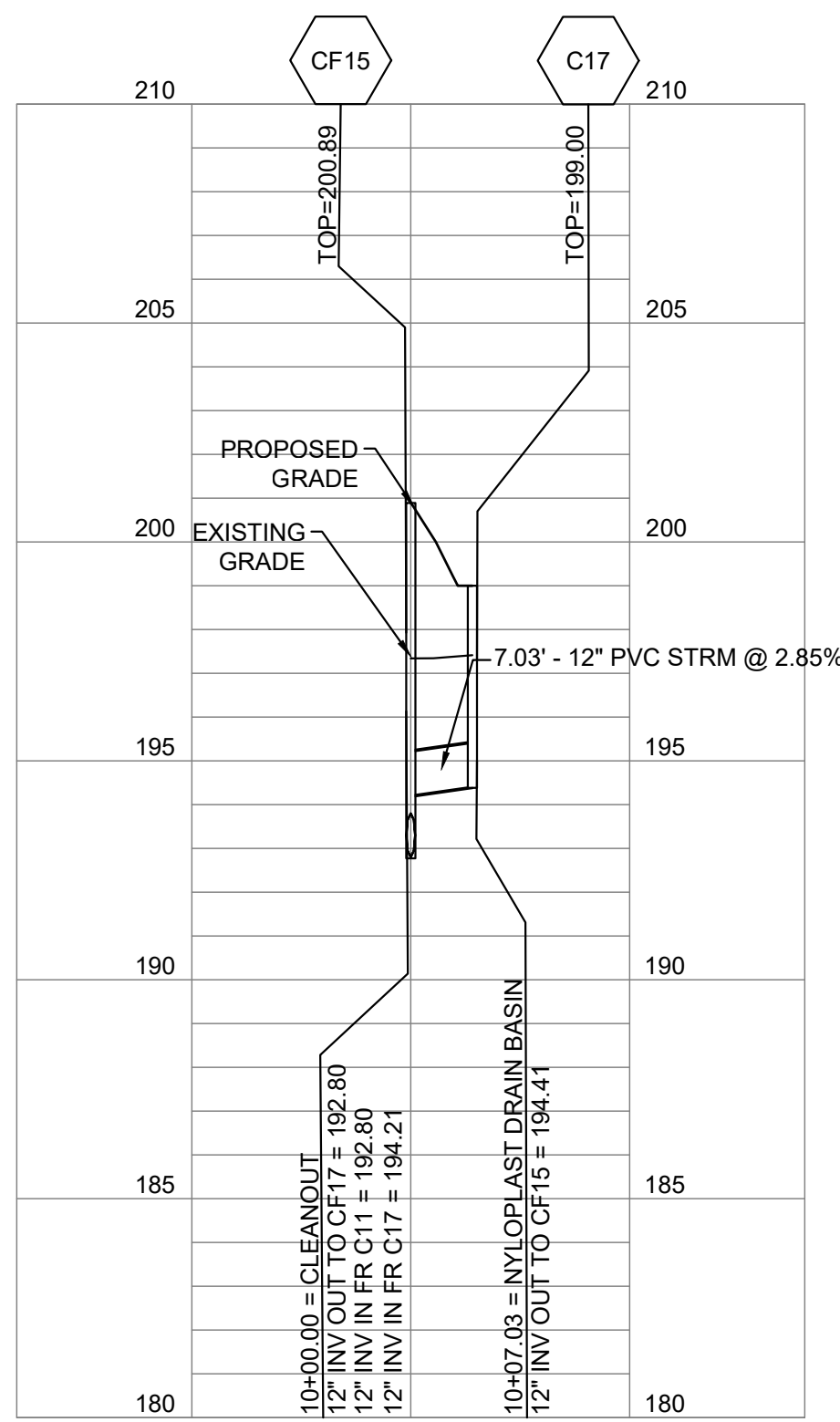
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CF9 TO C13:
PROFILE: STA 10+00 TO 10+23.99
C-211UP SCALE: HORIZ 1" = 20' SCALE: VERT 1" = 4'



3
CF6 TO C15:
PROFILE: STA 10+00 TO 10+33.50
C-211UP SCALE: HORIZ 1" = 20' SCALE: VERT 1" = 4'



6
CF12 TO C14:
PROFILE: STA 10+00 TO 10+06.74
C-211UP SCALE: HORIZ 1" = 20' SCALE: VERT 1" = 4'



7
CF15 TO C17:
PROFILE: STA 10+00 TO 10+07.03
C-211UP SCALE: HORIZ 1" = 20' SCALE: VERT 1" = 4'

DOB PERMIT STAMP

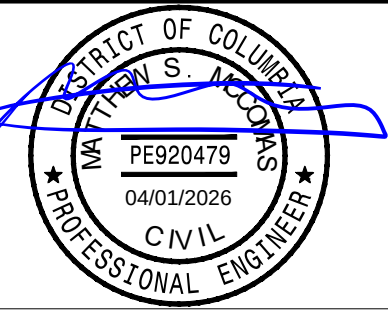
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ALF

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ARABIAN LEOPARD
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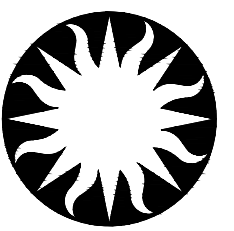
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KEY PLAN

GRAPHIC SCALE(S)

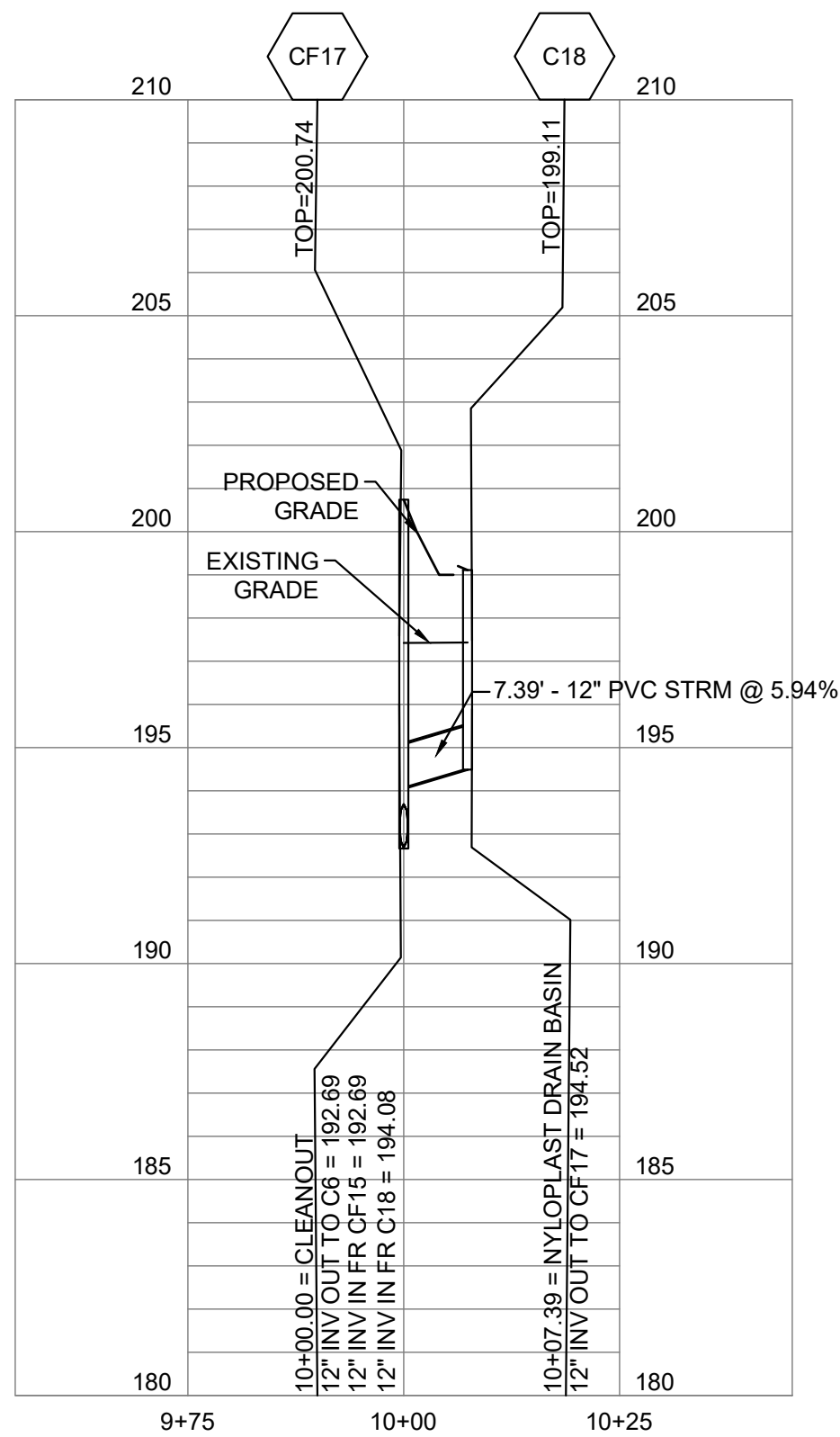
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REVISION #	DATE



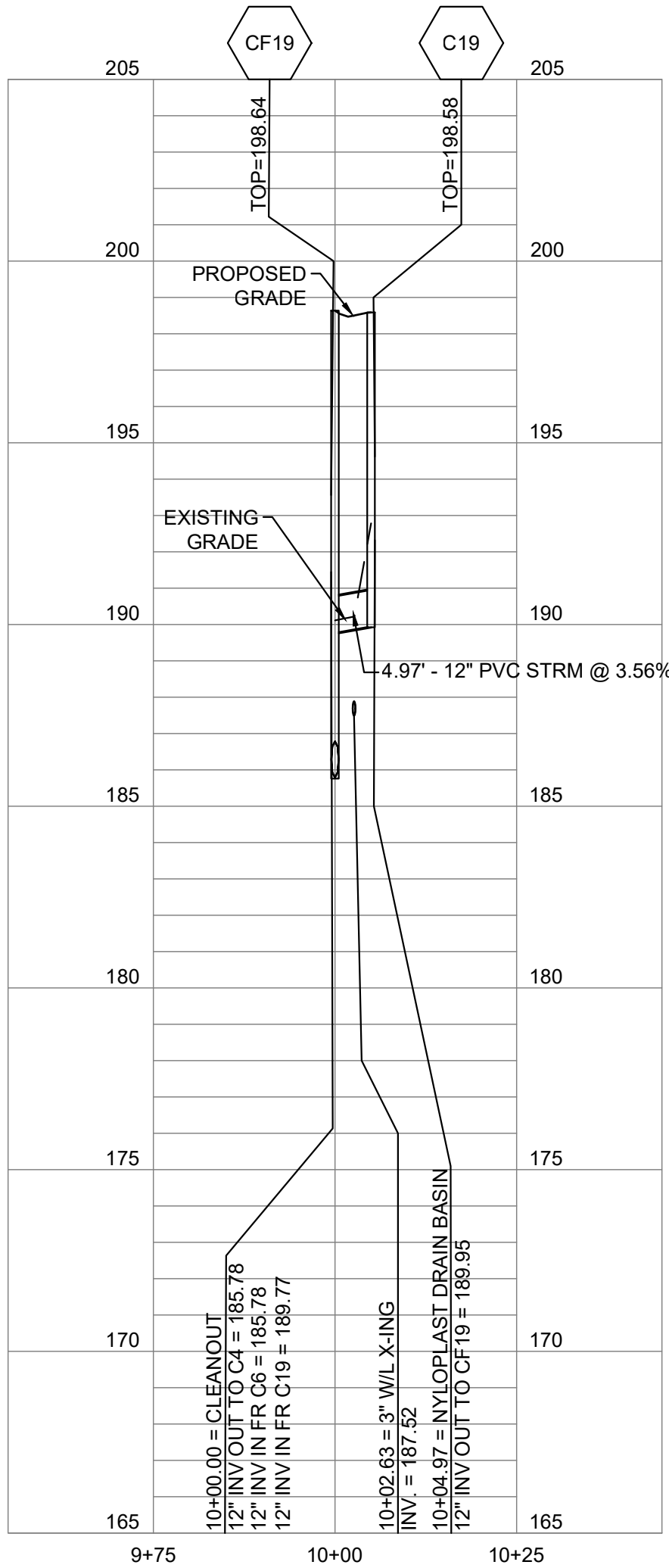
Smithsonian
Institution

Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20004-2520

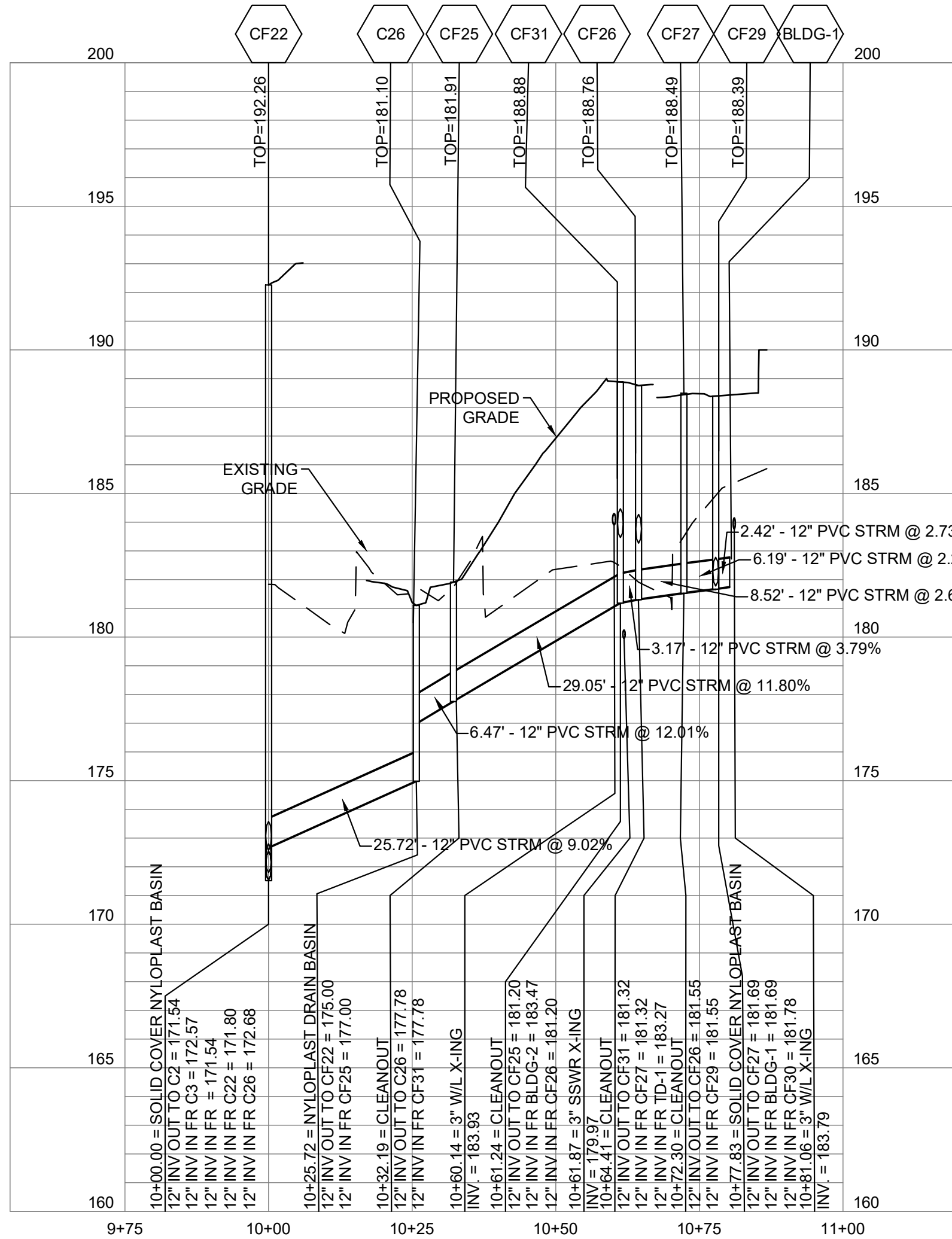
BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)		
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008		
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)		
OPDC PROJECT NUMBER	2533105		
A/E PROJECT NUMBER	00100084		
DRAWING TITLE	CONTAMINATED STORM SEWER PROFILES		
WORKING STAFF	ST	KK	SM
SHEET NO.	C 211 UP		
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE		



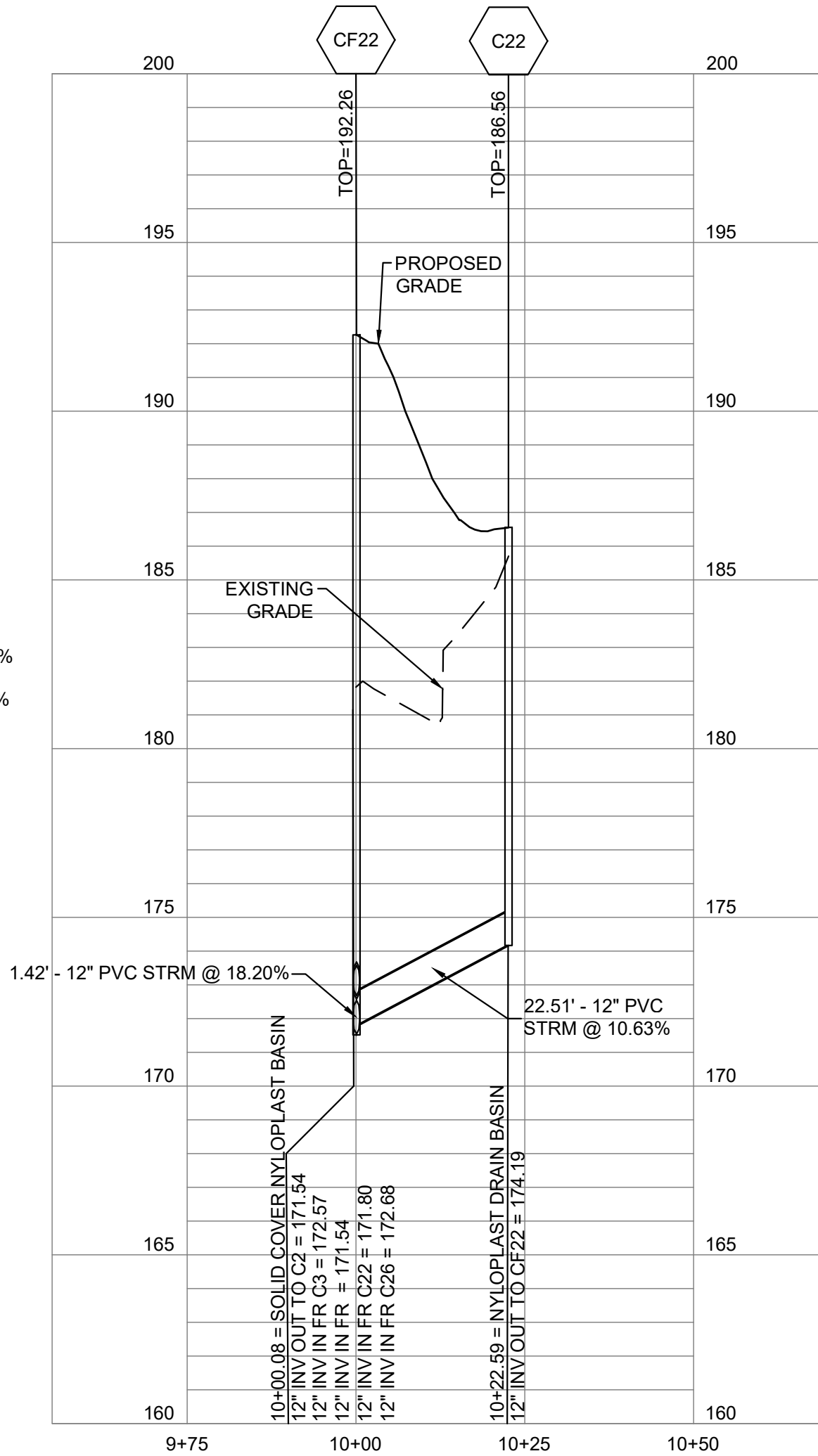
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CF17 TO C18:
PROFILE: STA 10+00 TO 10+07.39
C-212UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



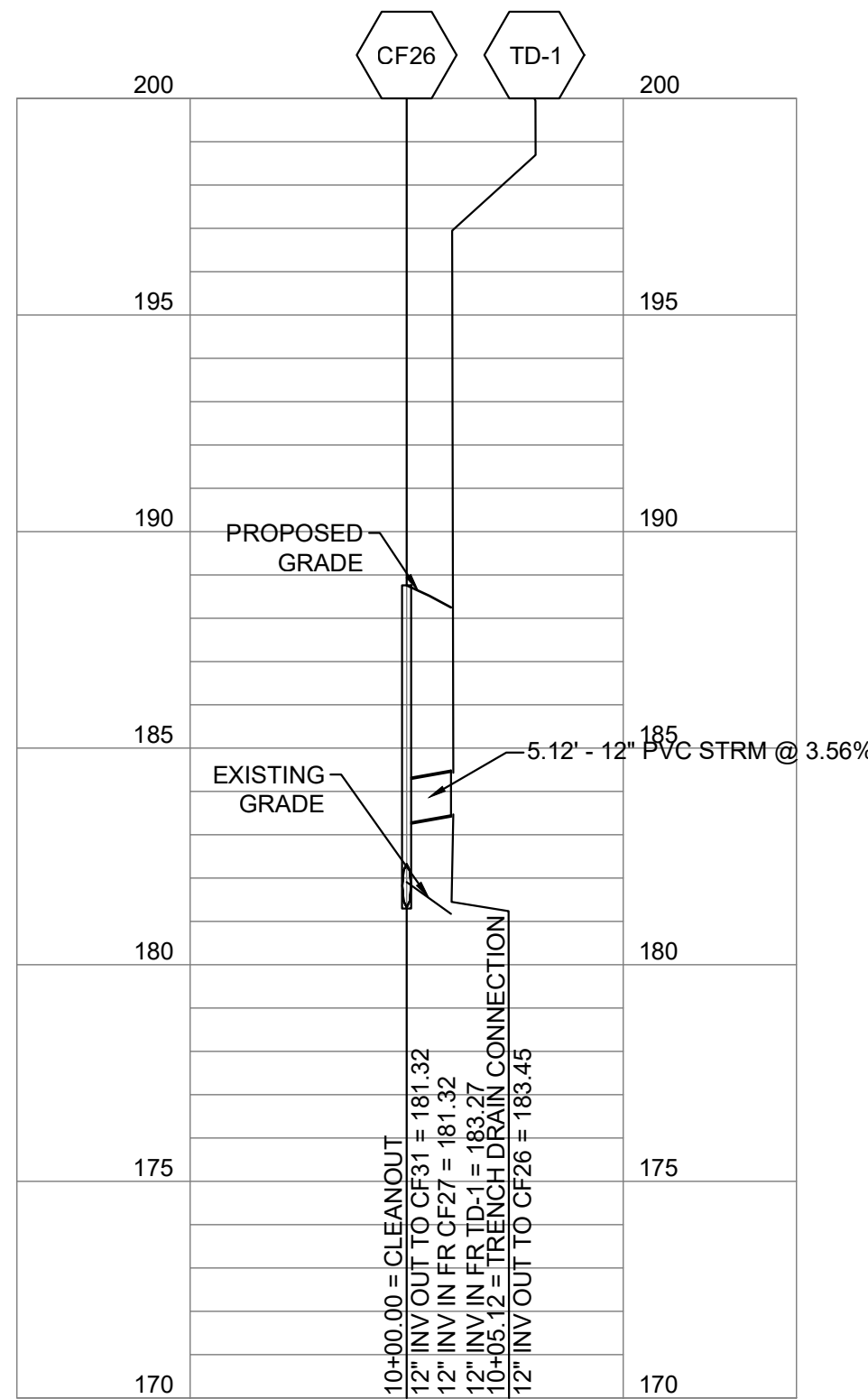
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CF19 TO C19:
PROFILE: STA 10+00 TO 10+04.97
C-212UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



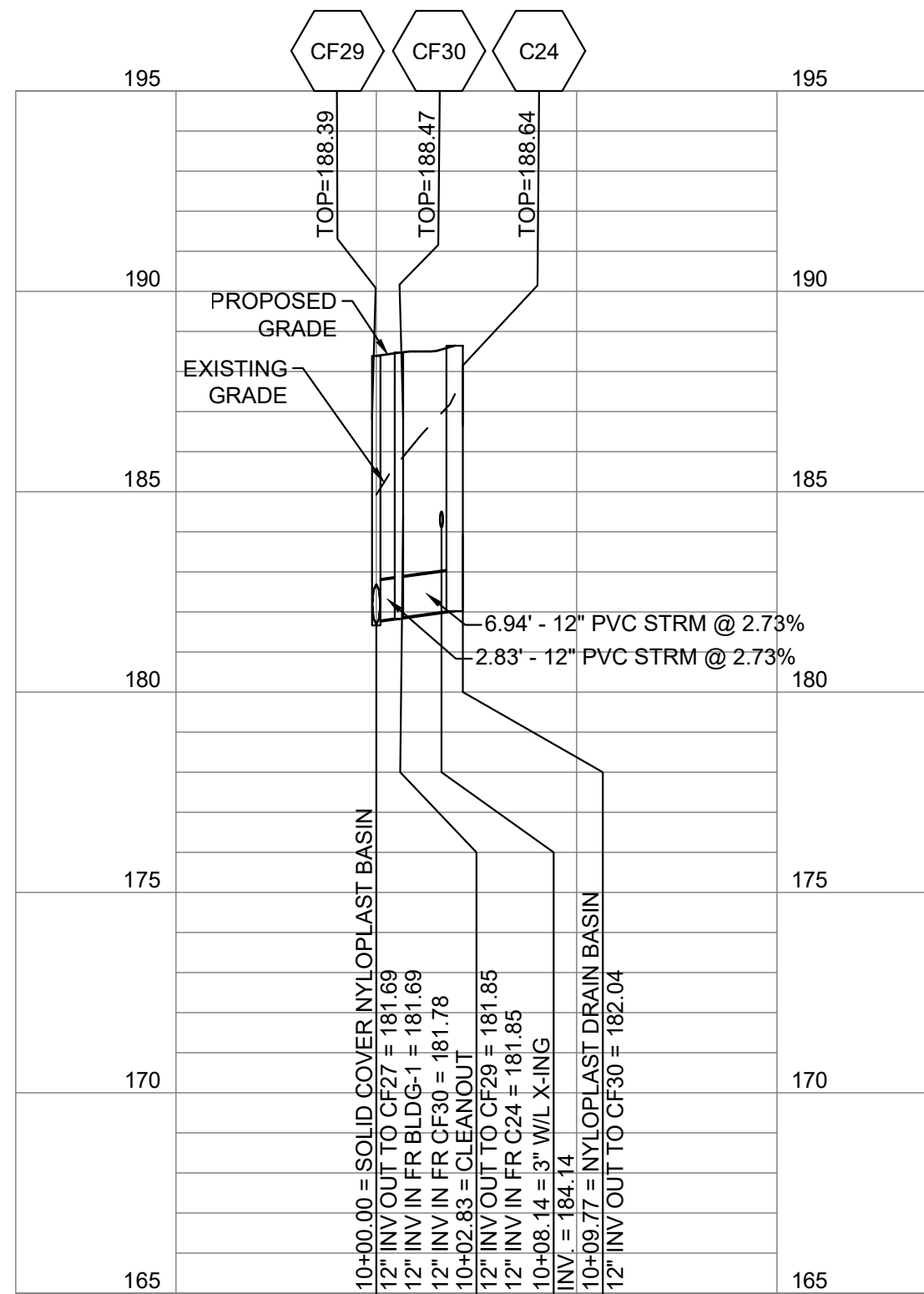
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CF23 TO BLDG-1:
PROFILE: STA 10+00 TO 10+77.83
C-212UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



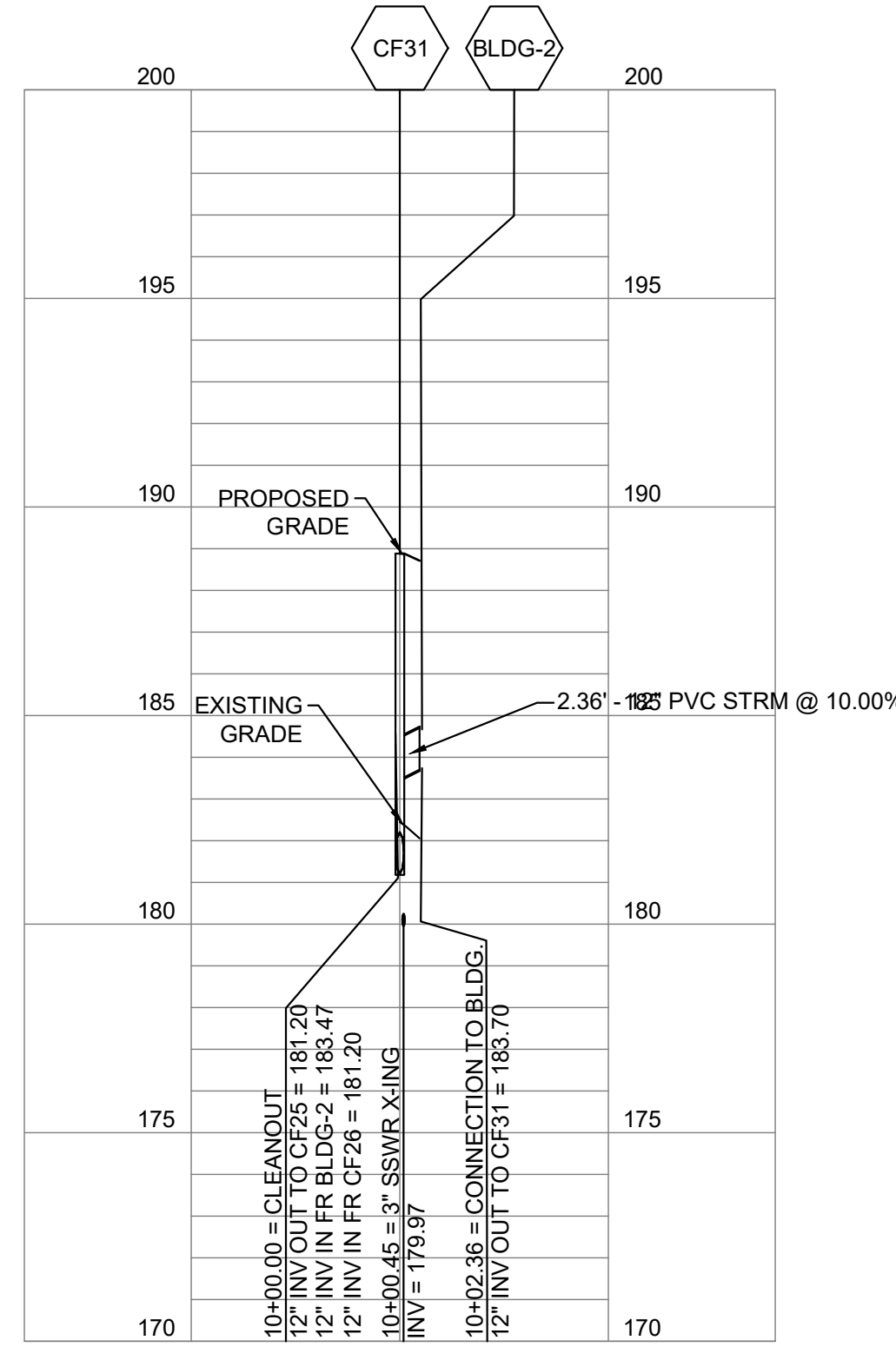
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CF22 TO C22:
PROFILE: STA 10+00 TO 10+22.59
C-212UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



5
CF26 TO TD-1:
PROFILE: STA 10+00 TO 10+05.12
C-212UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



6
CF29 TO C24:
PROFILE: STA 10+00 TO 10+09.77
C-212UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



7
CF31 TO BLDG-2:
PROFILE: STA 10+00 TO 10+02.36
C-212UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'

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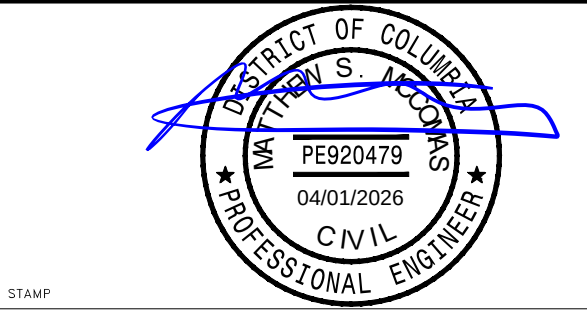
GENERAL NOTE:
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DOB PERMIT STAMP

ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

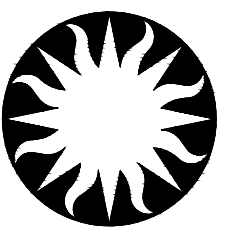
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KEY PLAN

GRAPHIC SCALE(S)

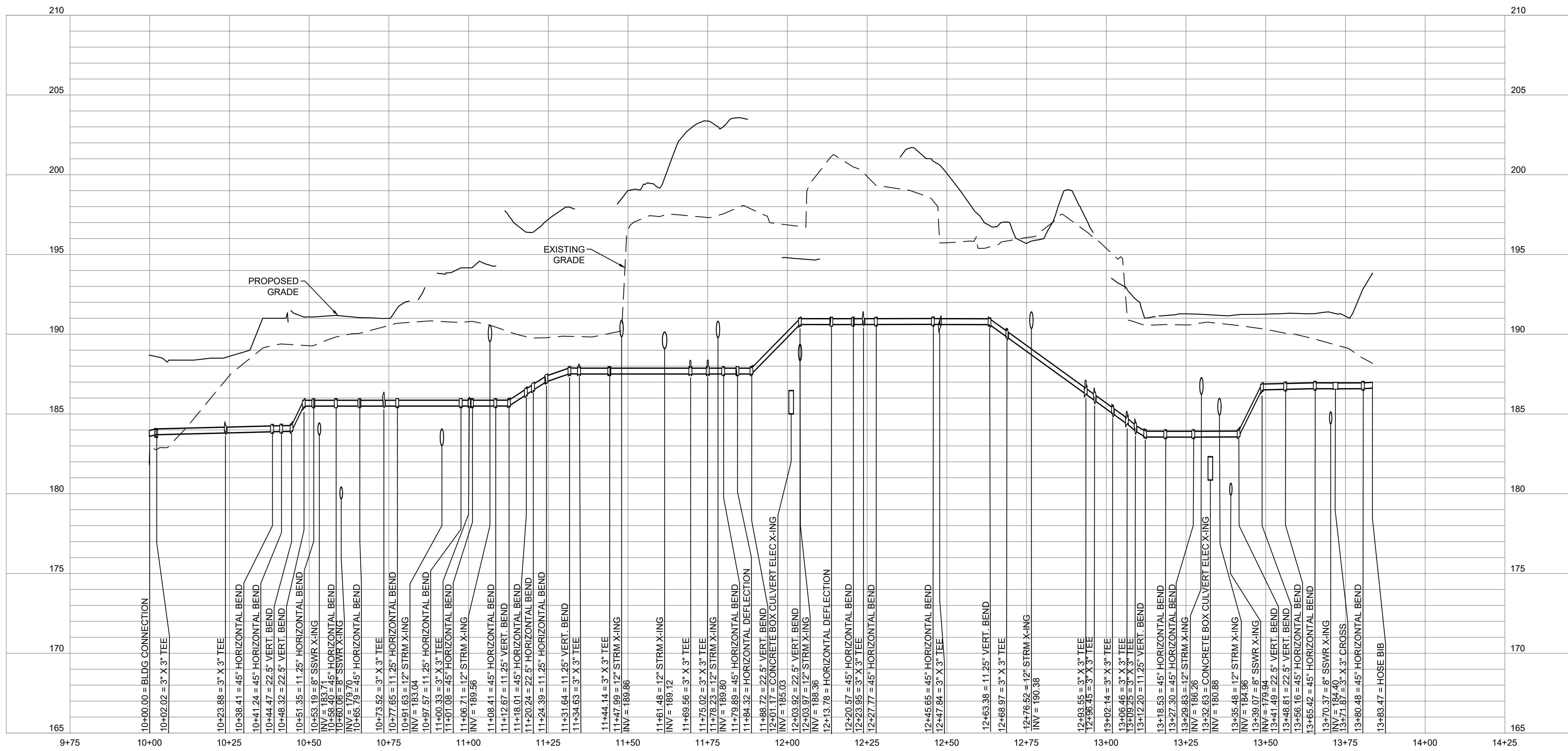
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04/02/2026	ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



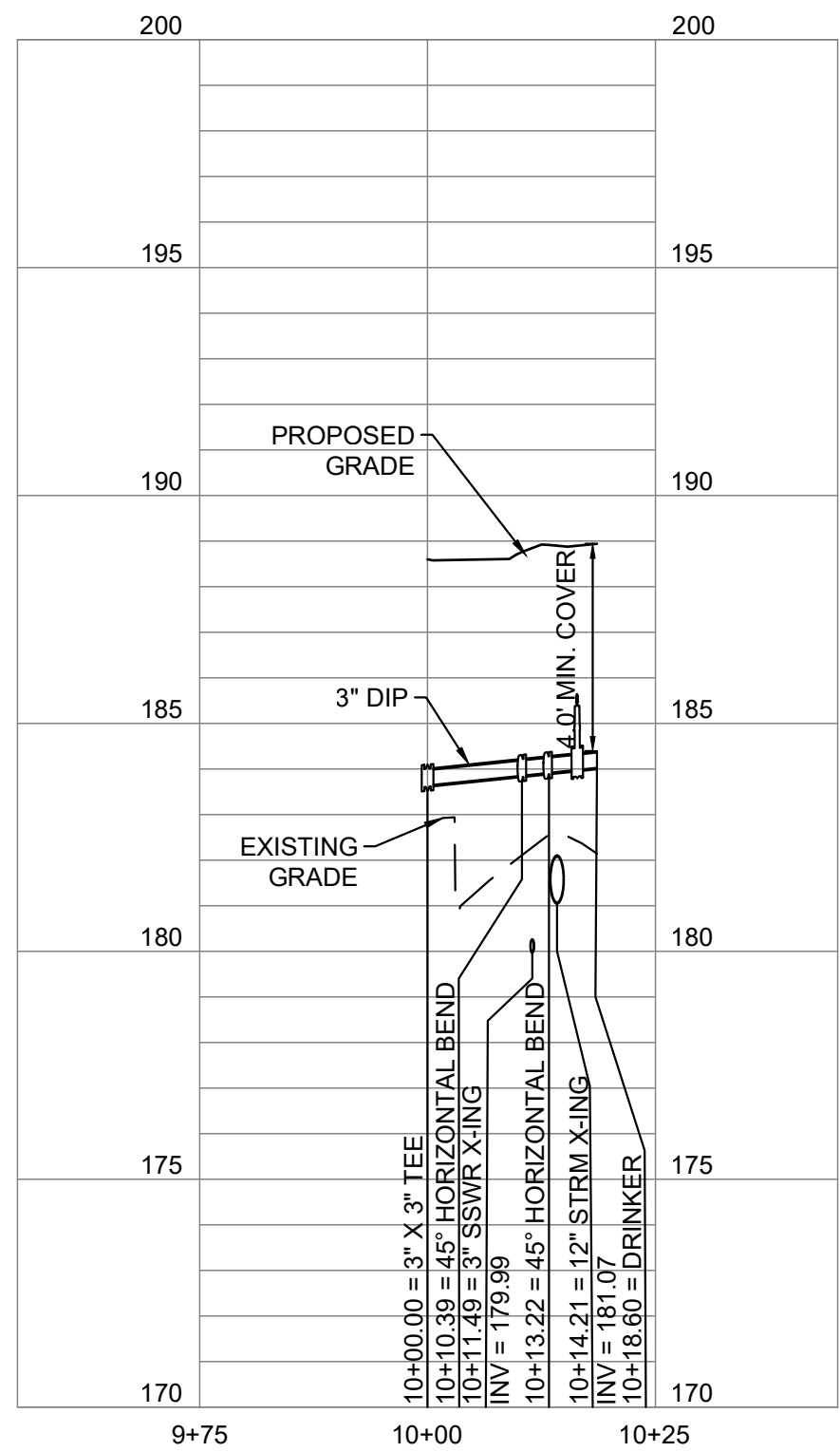
Smithsonian Institution

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

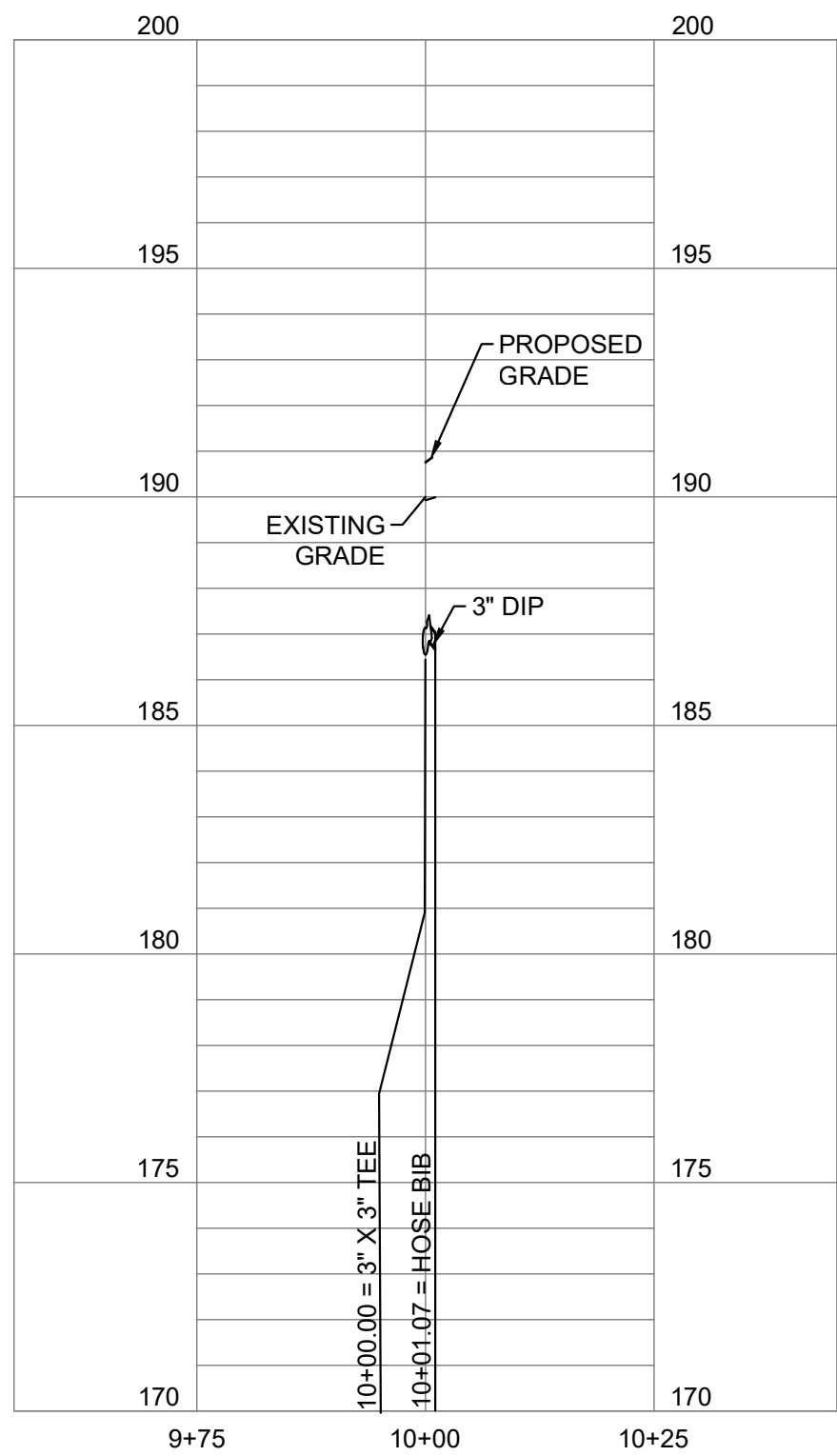
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ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008		
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)		
OPDC PROJECT NUMBER	2533105		
A/E PROJECT NUMBER	00100084		
DRAWING TITLE	CONTAMINATED STORM SEWER PROFILES		
WORKING STAFF	ST	KK	SM
SHEET NO.	C 212 UP		
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE		



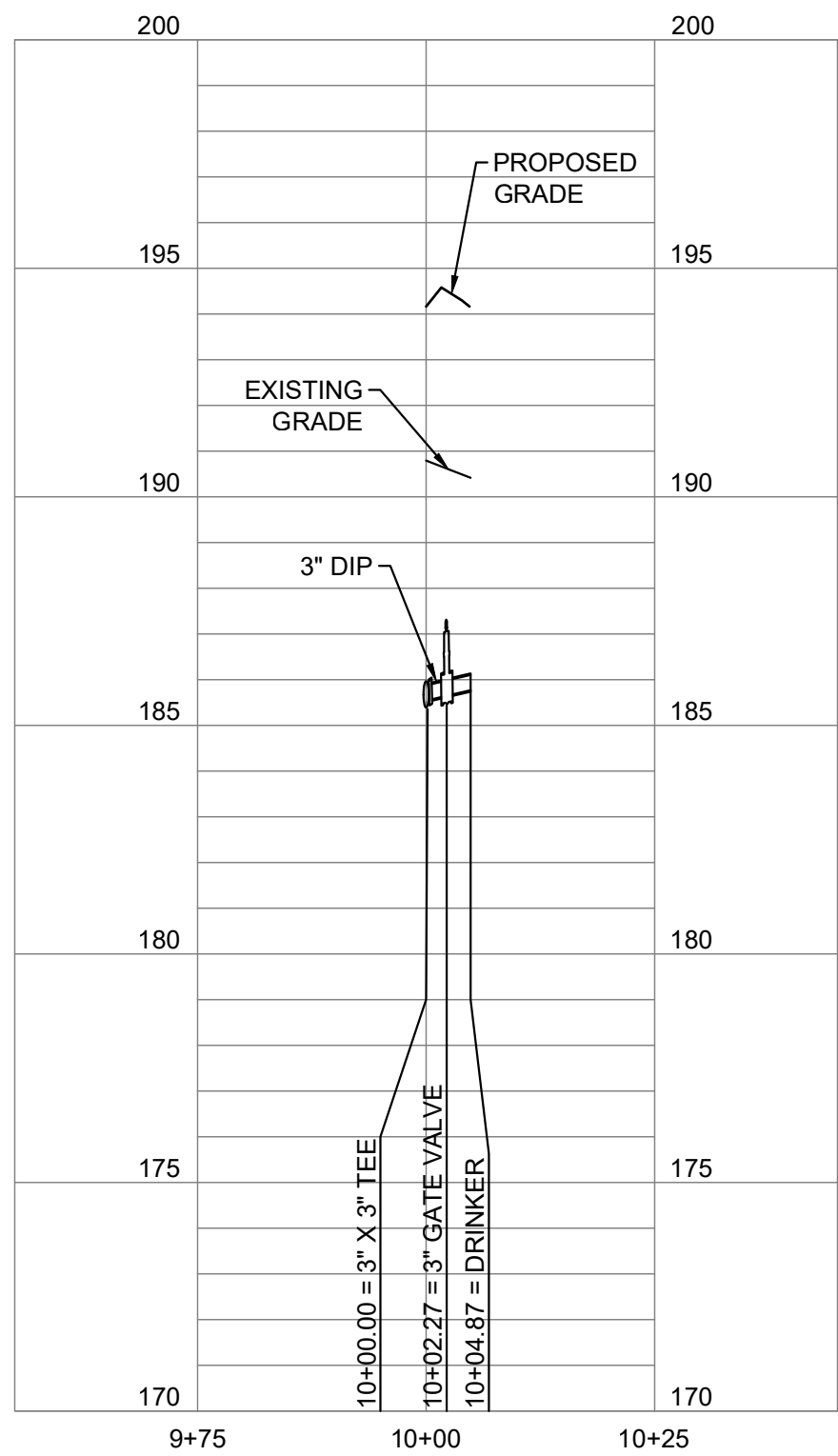
1 WATER LINE E: STA 10+00 TO 13+83.47
C-216UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



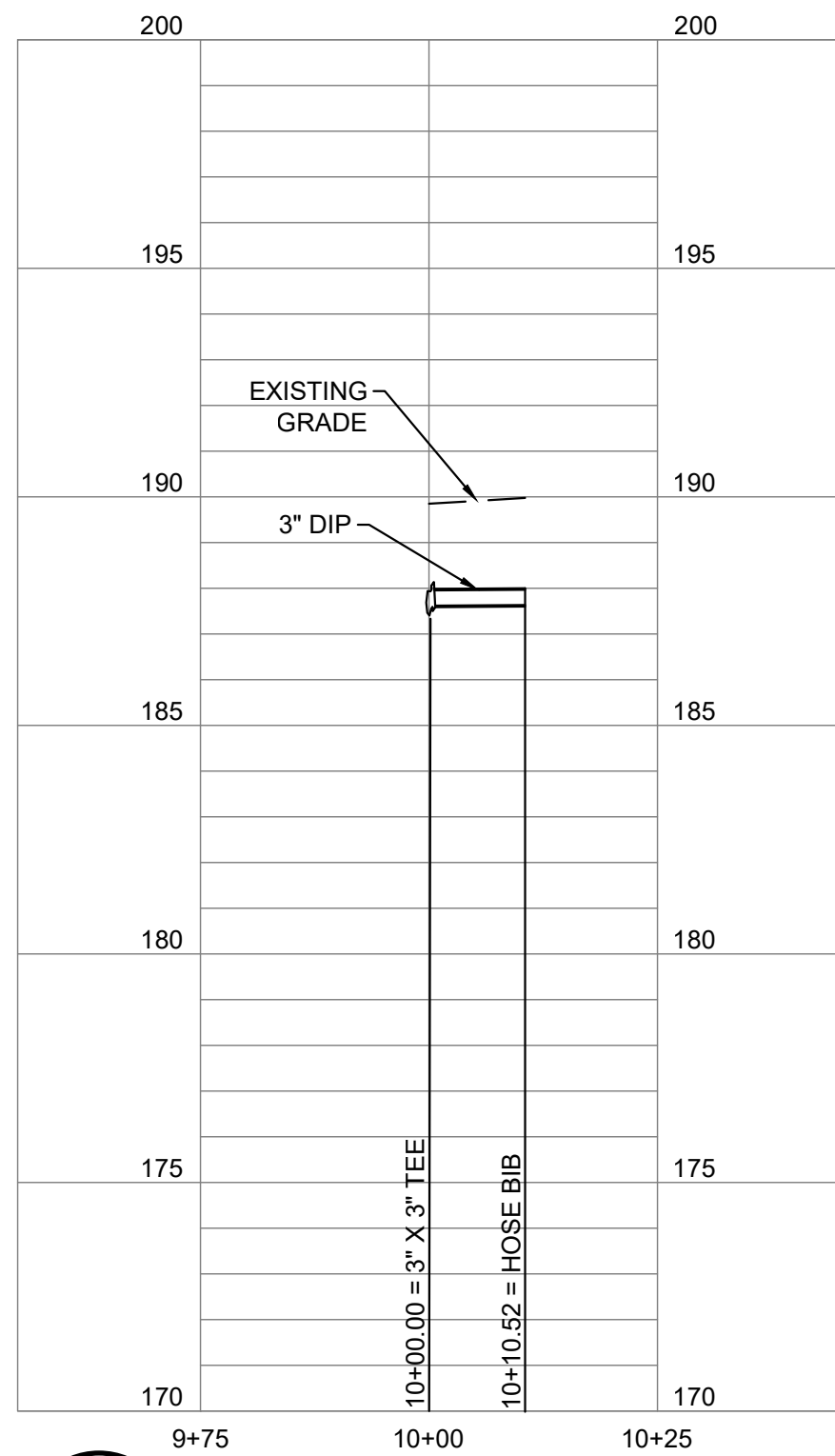
2 WATER LINE F: STA 10+00 TO 10+18.60
C-216UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 10+02.02 PROFILE 1, THIS SHEET



3 WATER LINE G: STA 10+00 TO 10+01.07
C-216UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



4 WATER LINE H: STA 10+00 TO 10+04.87
C-216UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 11+00.33 PROFILE 1, THIS SHEET



5 WATER LINE I: STA 10+00 TO 10+10.52
C-216UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 11+34.63 PROFILE 1, THIS SHEET

DOB PERMIT STAMP

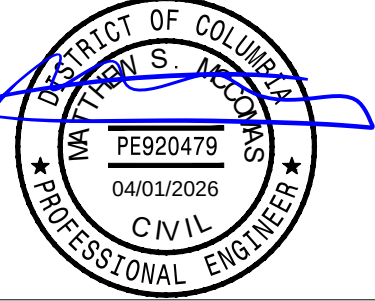
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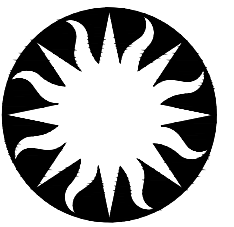
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KEY PLAN

GRAPHIC SCALE(S)

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



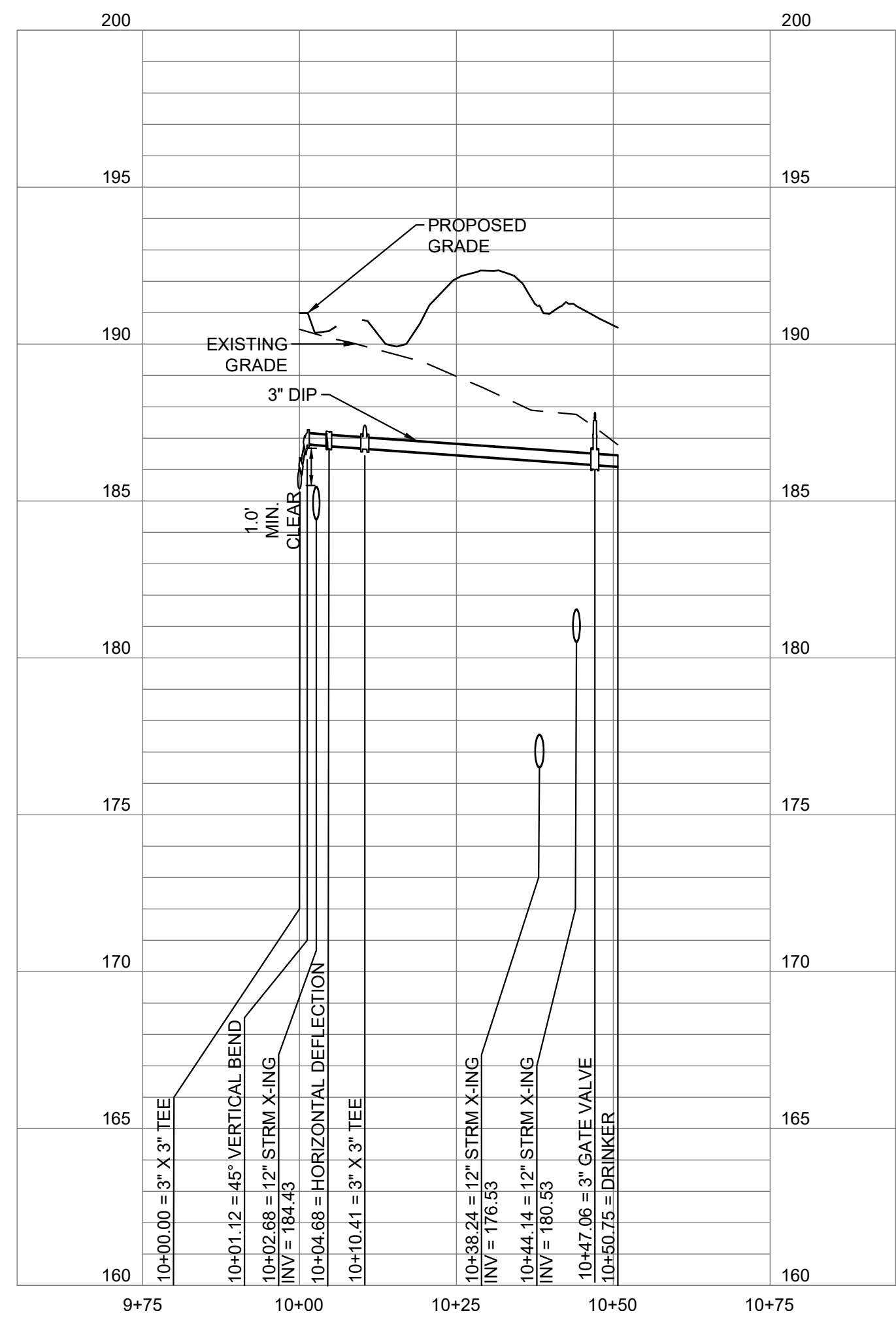
Smithsonian
Institution

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

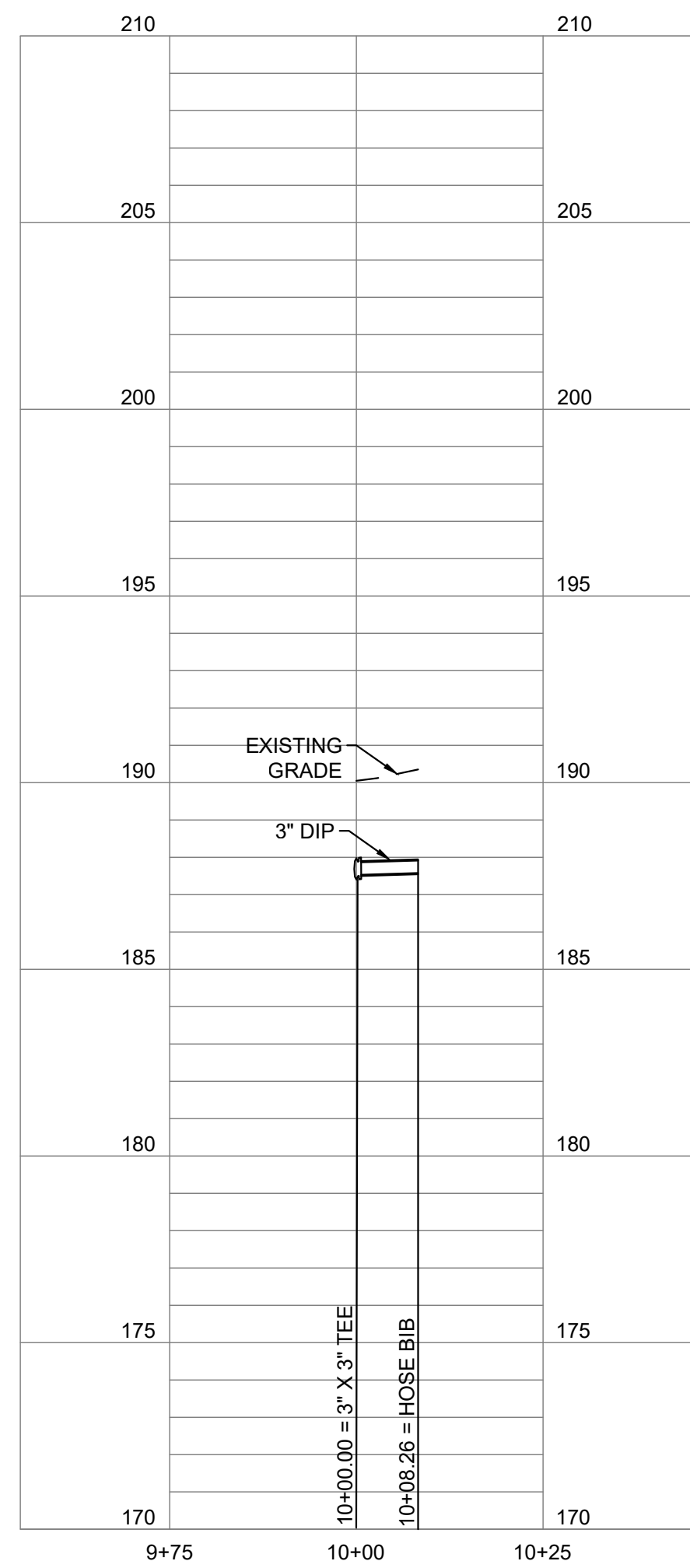
BUILDING NAME ADDRESS	ARABIAN LEOPARD FACILITY (ALF) 3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE OPDC PROJECT NUMBER A/E PROJECT NUMBER	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) 2533105 00100084

DRAWING TITLE WORKING STAFF	WATER PROFILES
ST DESIGNED BY	KK DRAWN BY
SM CHECKED BY	
SHEET NO. OF	C 2 16 UP
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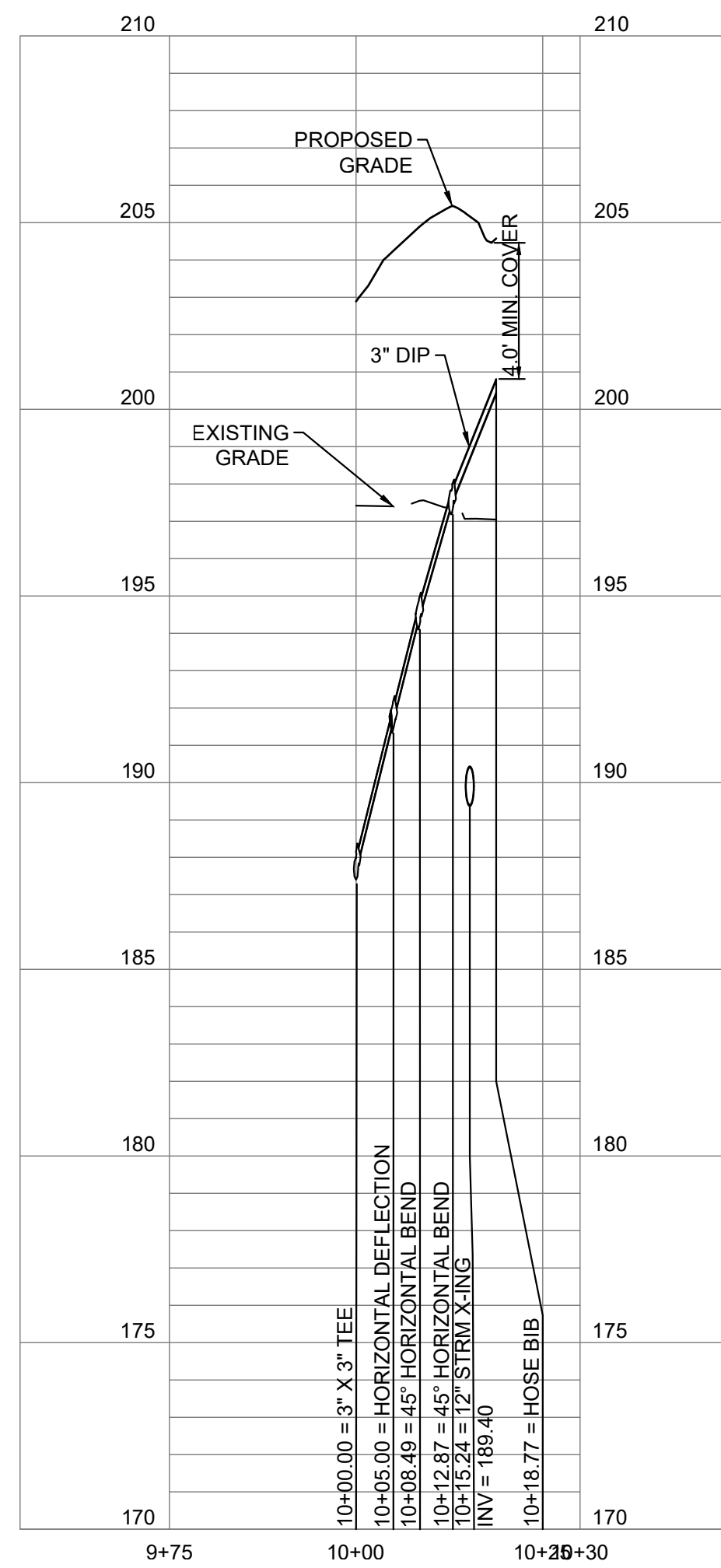
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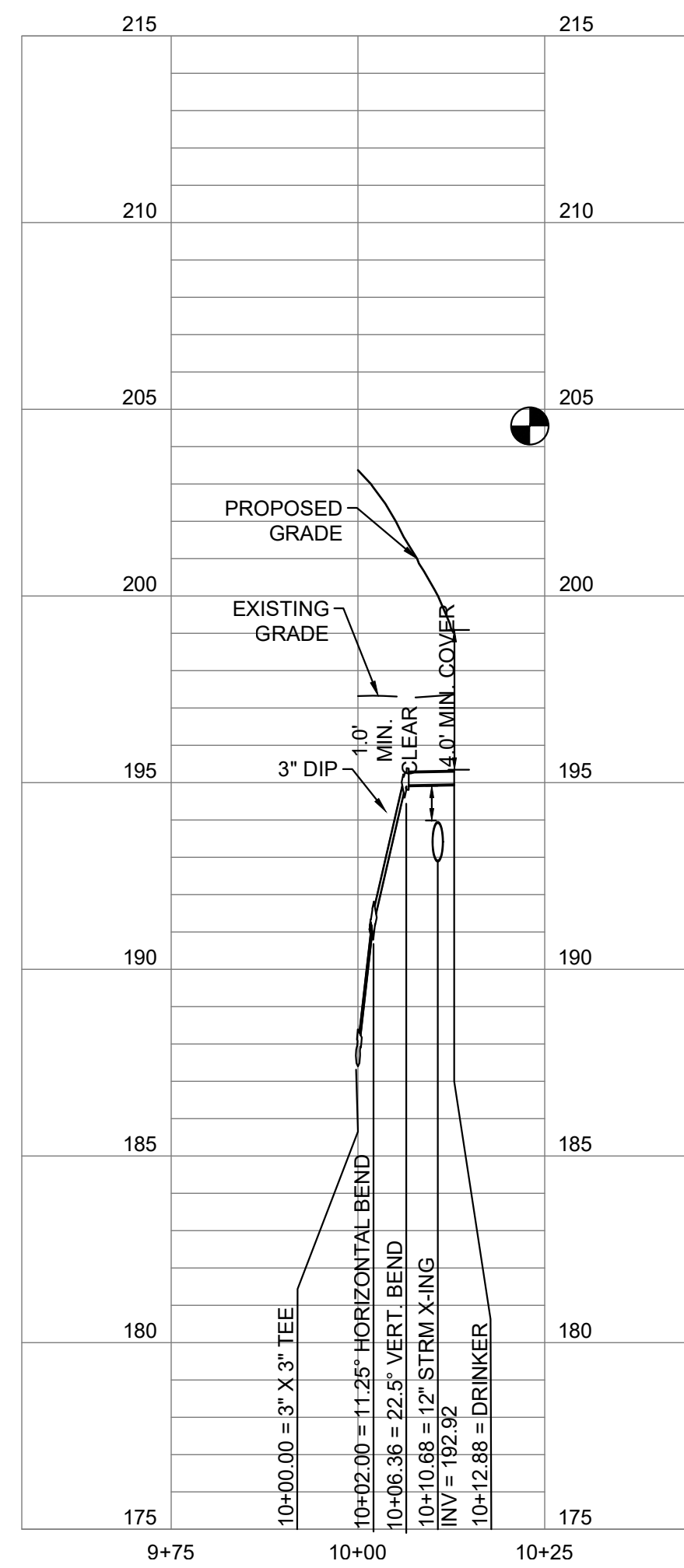
1 WATER LINE J: STA 10+00 TO 10+50.75
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: CROSS AT STA. 10+00 IS AT STA. 10+73.52 PROFILE 1, SHEET CU216



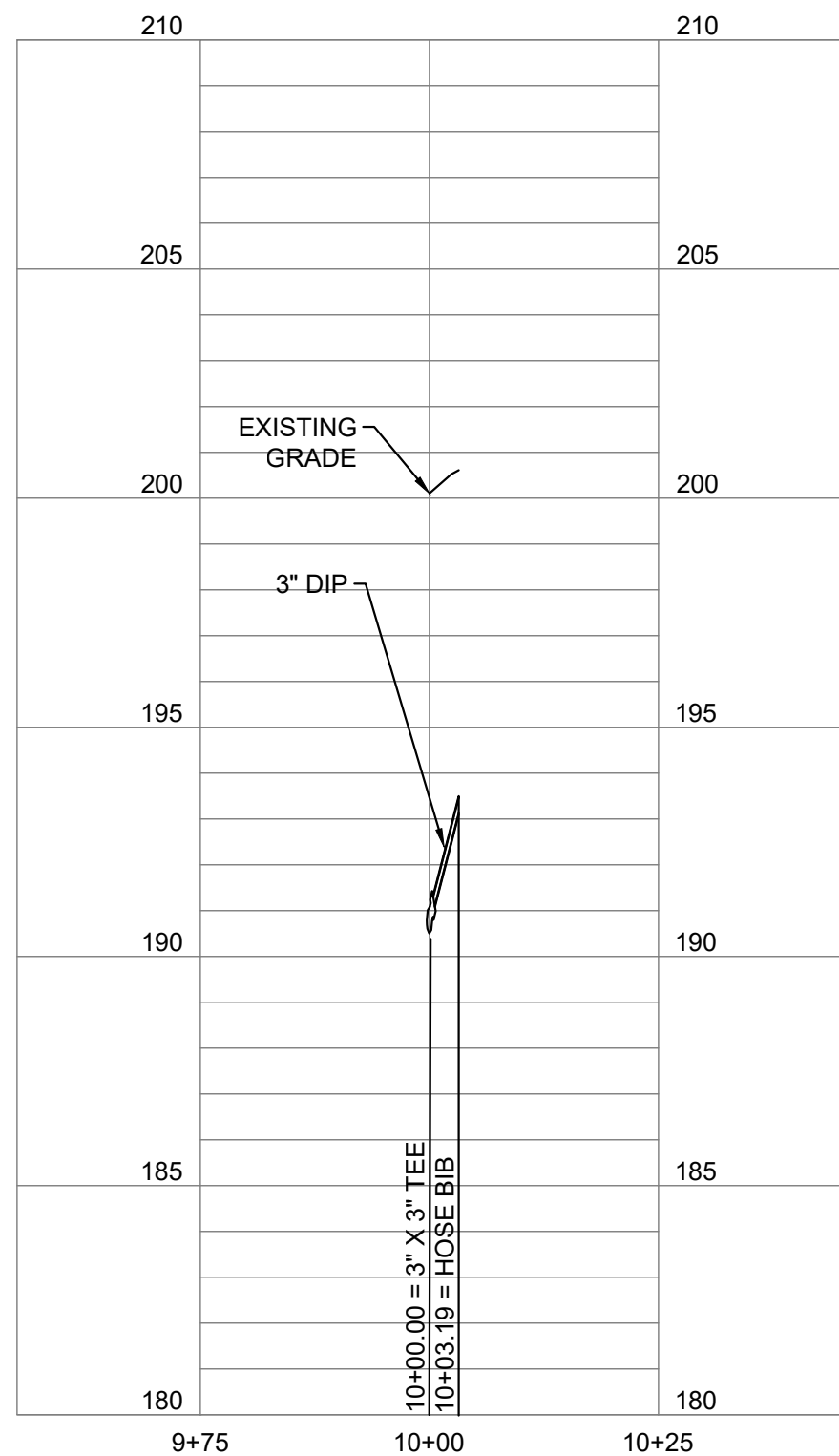
2 WATER LINE K: STA 10+00 TO 10+08.26
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 11+44.14 PROFILE 1, SHEET CU216



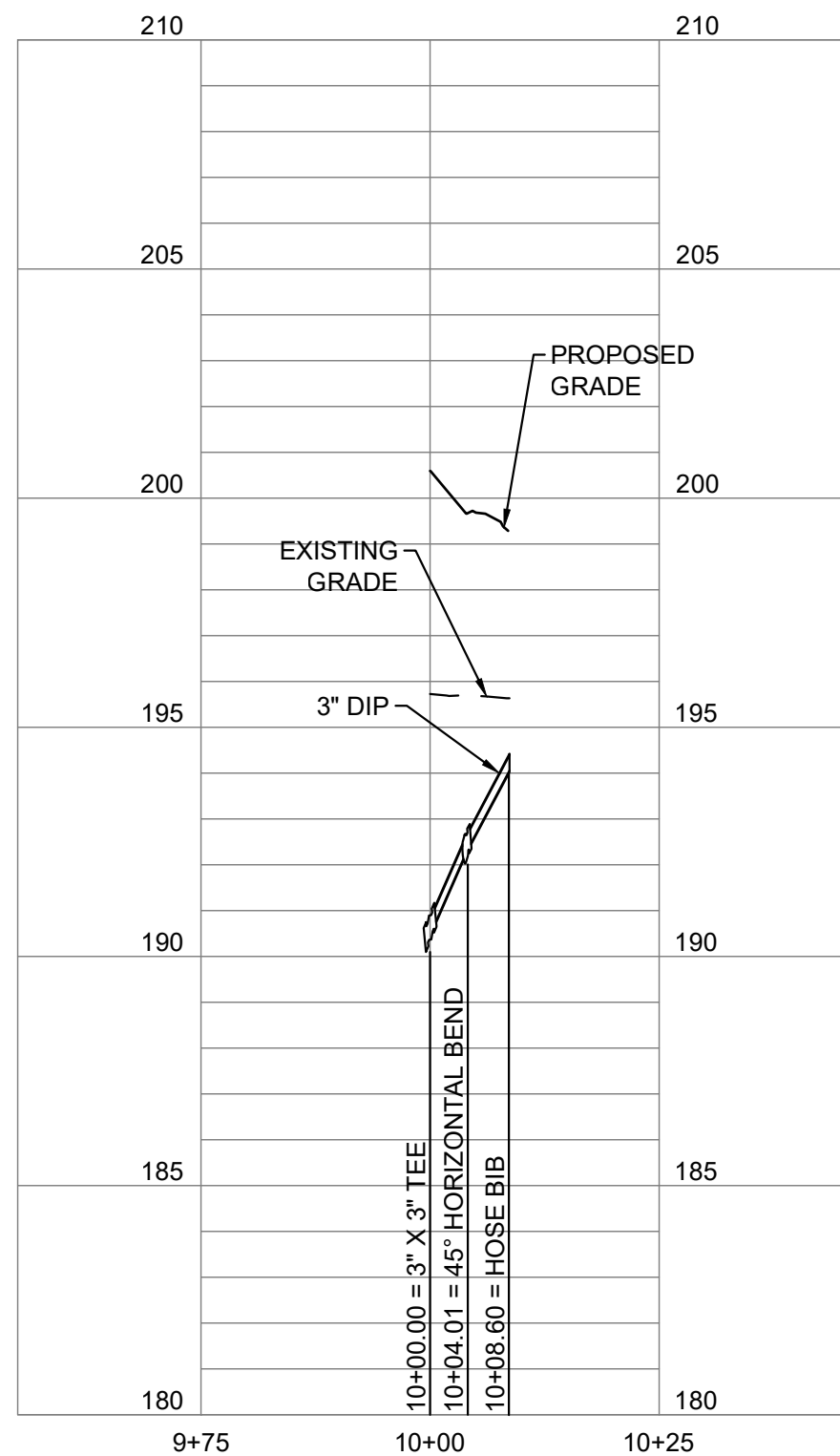
3 WATER LINE L: STA 10+00 TO 10+18.77
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 11+69.56 PROFILE 1, SHEET CU216



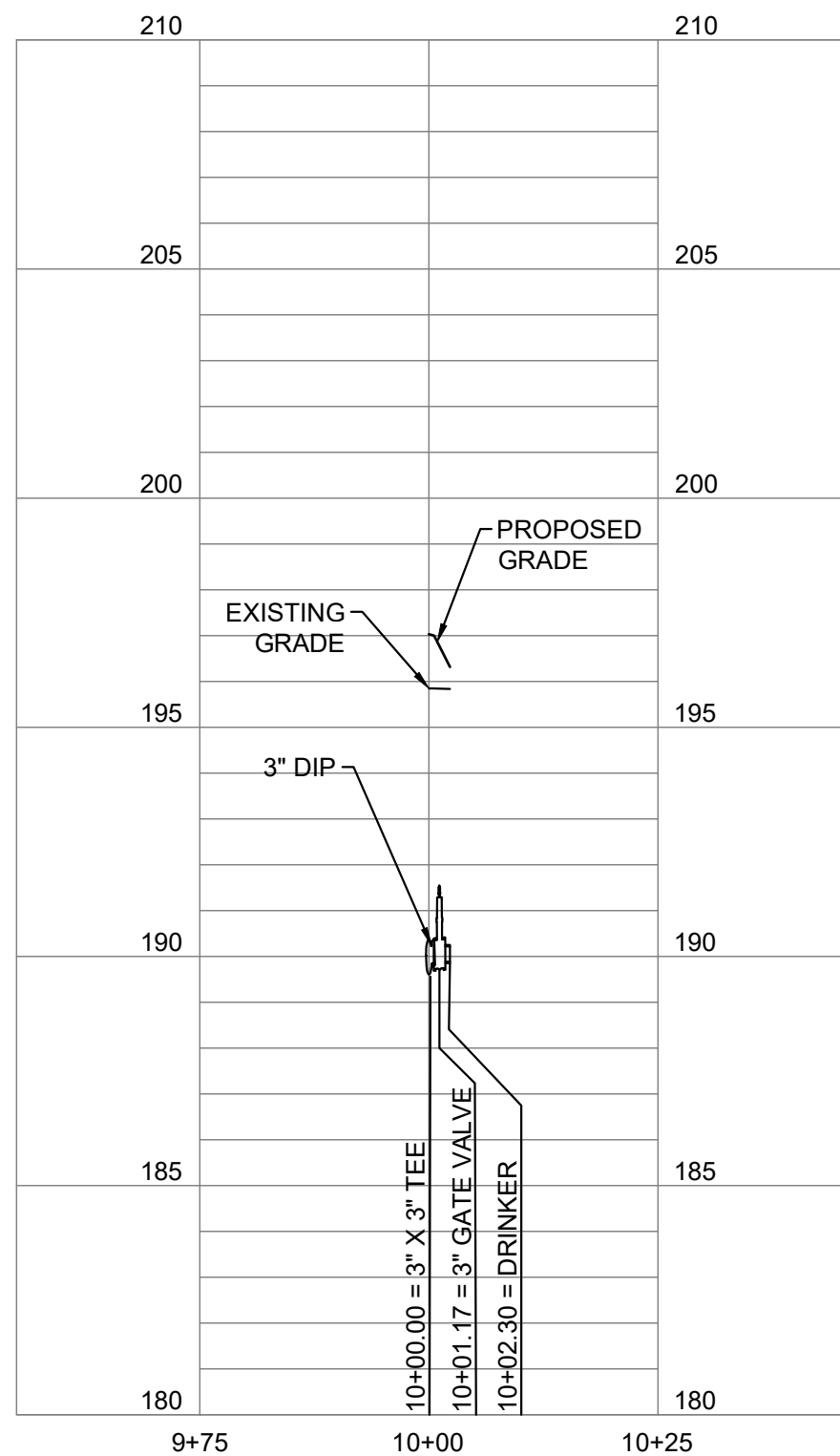
4 WATER LINE M: STA 10+00 TO 10+12.88
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 11+75.02 PROFILE 5, SHEET CU216



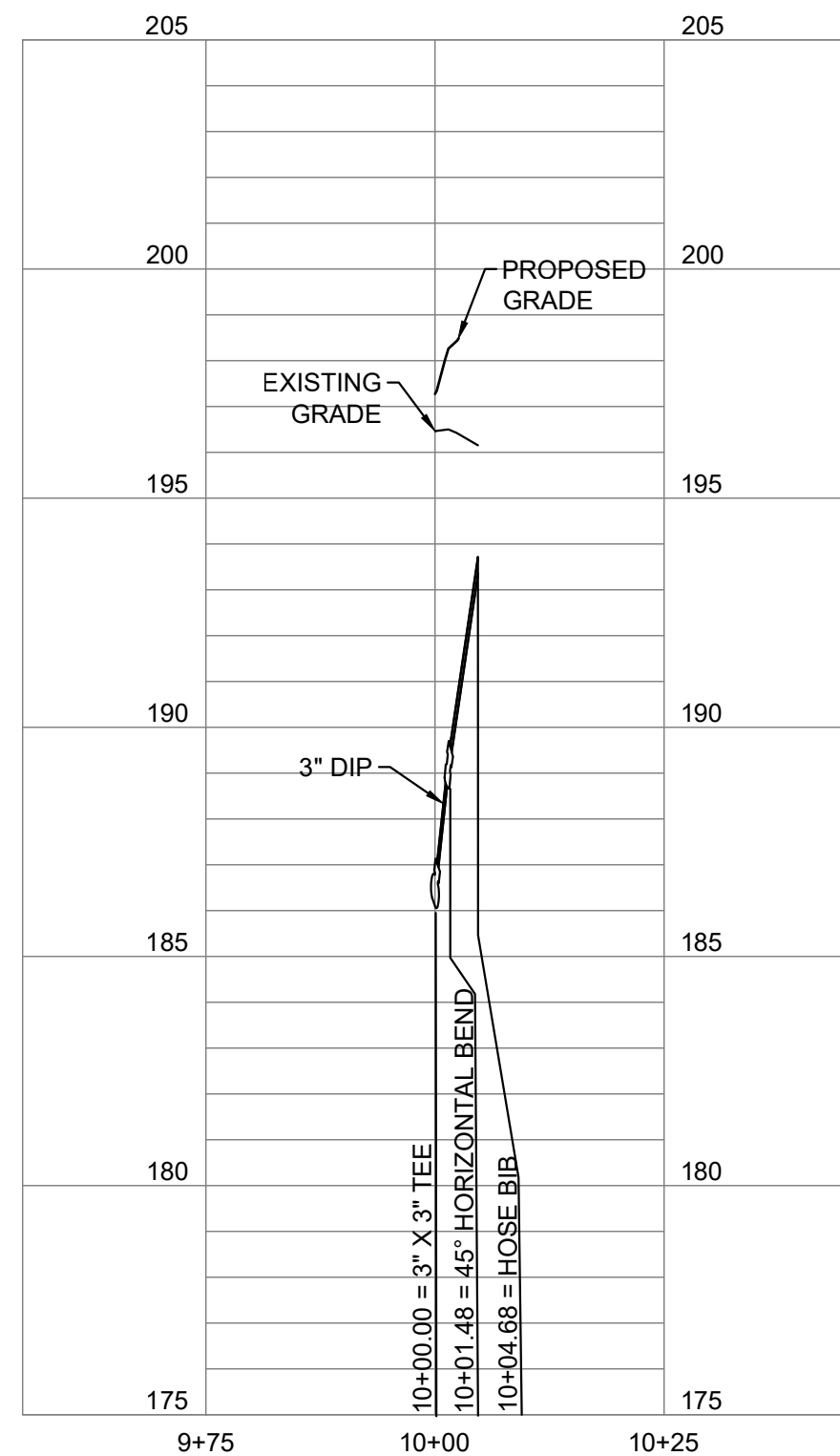
5 WATER LINE N: STA 10+00 TO 10+03.19
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 12+23.95 PROFILE 1, SHEET CU216



6 WATER LINE O: STA 10+00 TO 10+08.66
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 12+47.84 PROFILE 1, SHEET CU216



7 WATER LINE P: STA 10+00 TO 10+02.30
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 12+68.97 PROFILE 1, SHEET CU216



8 WATER LINE Q: STA 10+00 TO 10+04.68
C-217UP
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 12+93.55 PROFILE 1, SHEET CU216

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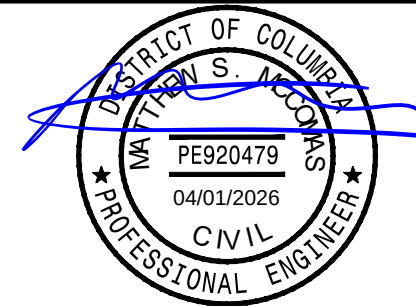
GENERAL NOTE:
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DOB PERMIT STAMP

ALF

CONSTRUCT
ARABIAN LEOPARD
FACILITY

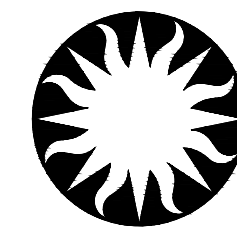
ISSUED FOR BID



KEY PLAN

GRAPHIC SCALE(S)

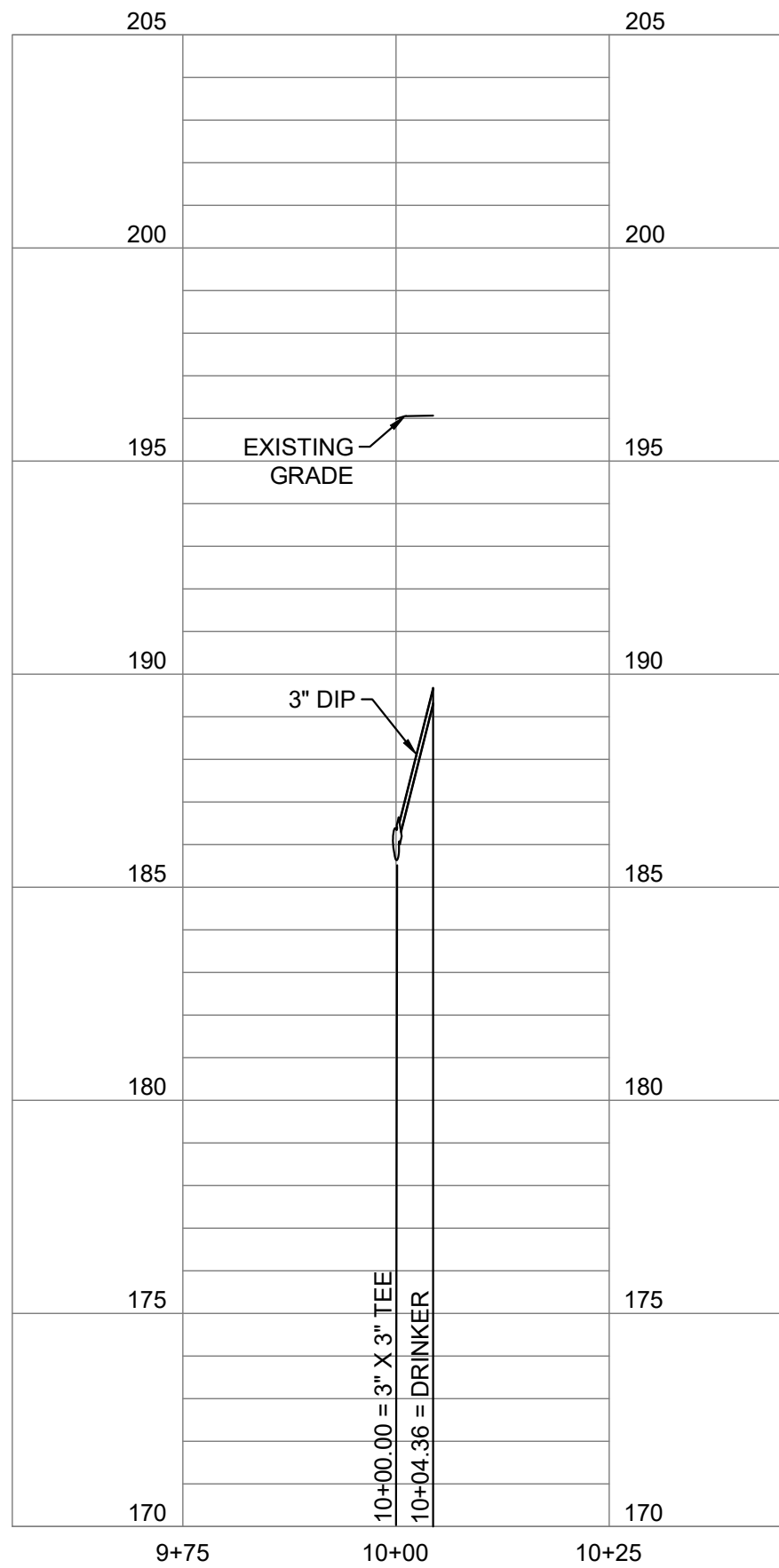
DATE 04/02/2026	REVISION ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



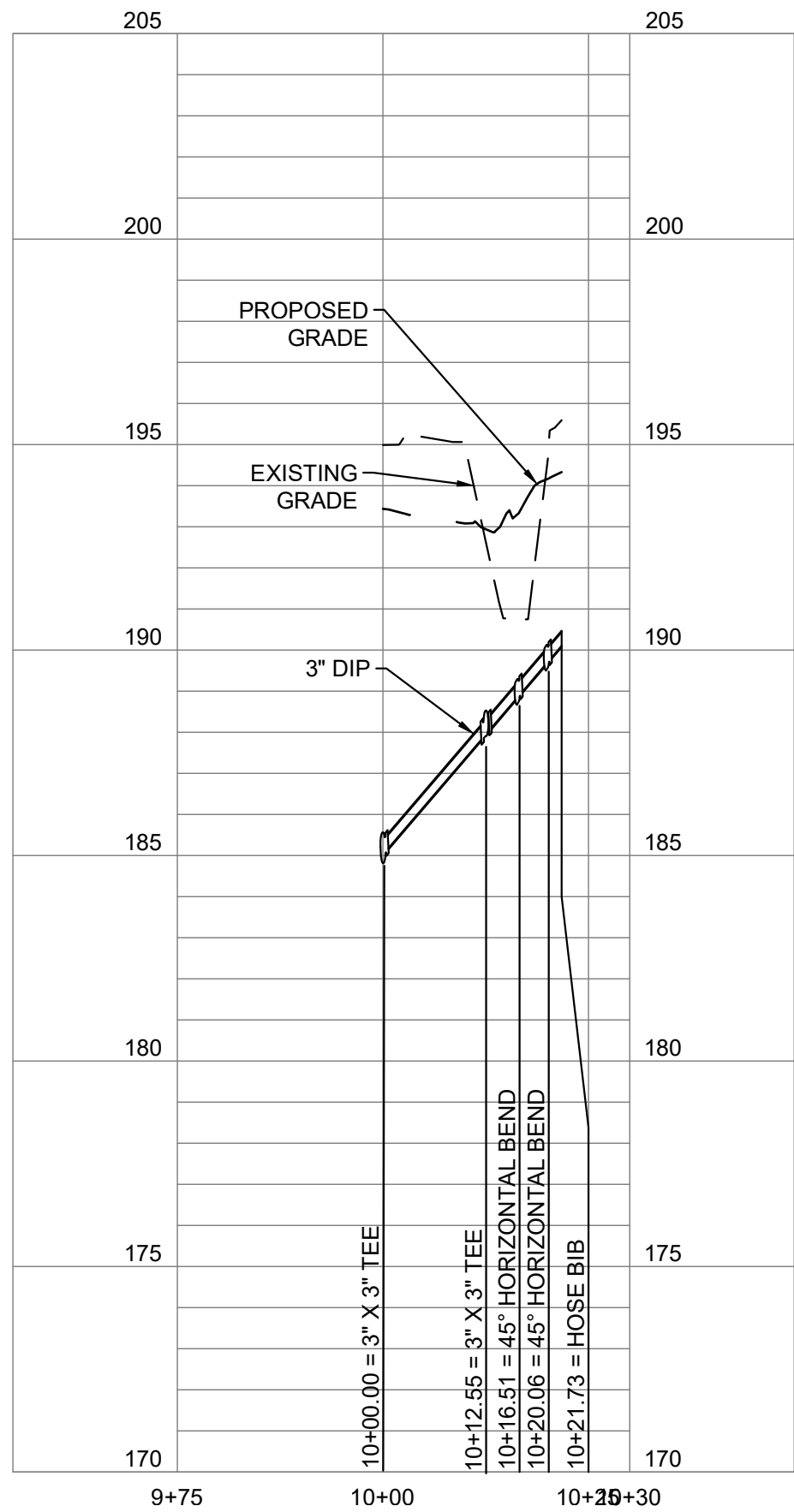
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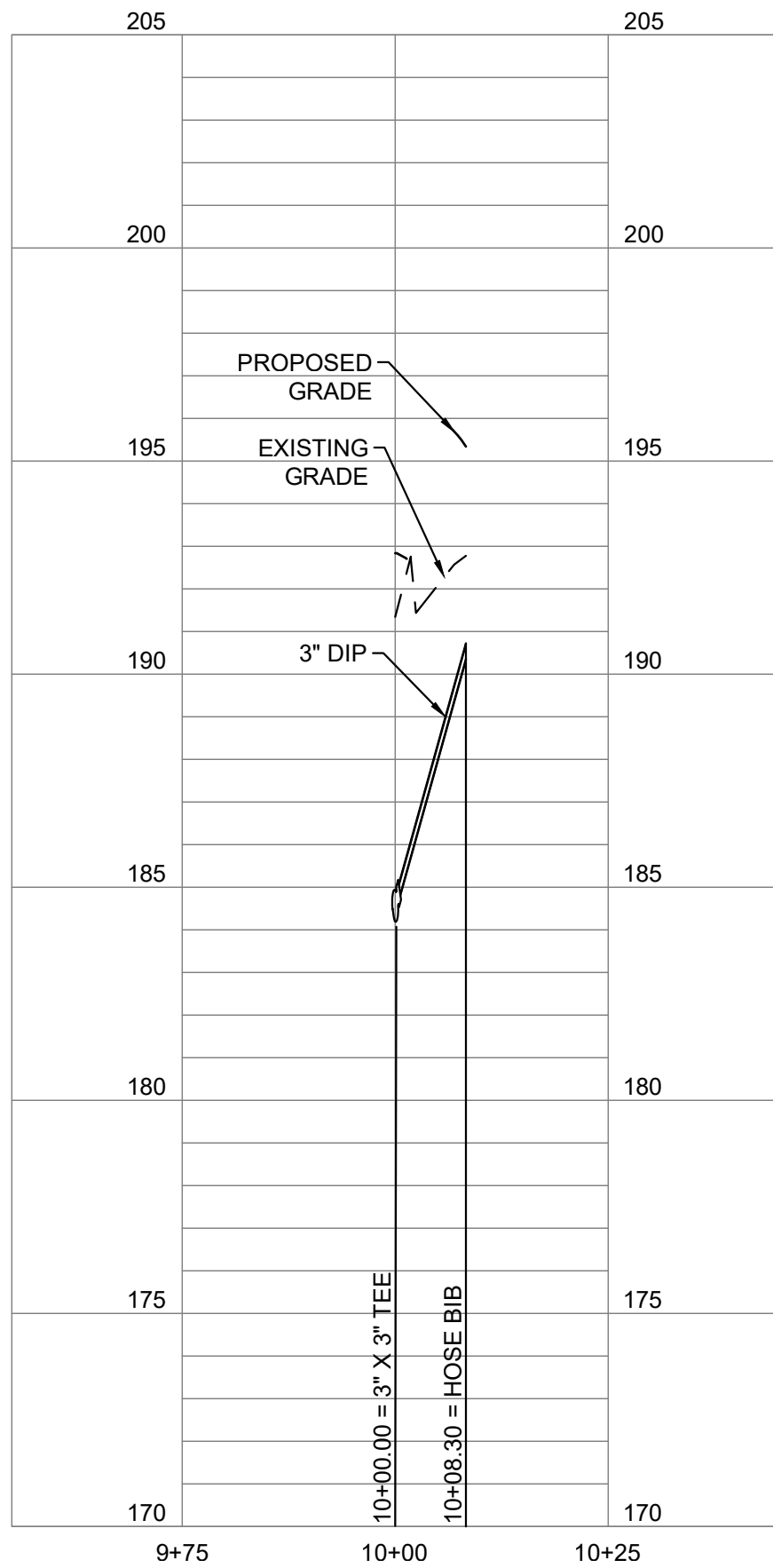
BUILDING NAME ADDRESS	ARABIAN LEOPARD FACILITY (ALF) 3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE OPDC PROJECT NUMBER A/E PROJECT NUMBER	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) 2533105 00100084
DRAWING TITLE WORKING STAFF	WATER PROFILES ST KK SM DESIGNED BY DRAWN BY CHECKED BY
SHEET NO. OF	C 2 17 UP DISCIPLINE TYPE SEQUENCE DRAWING TYPE



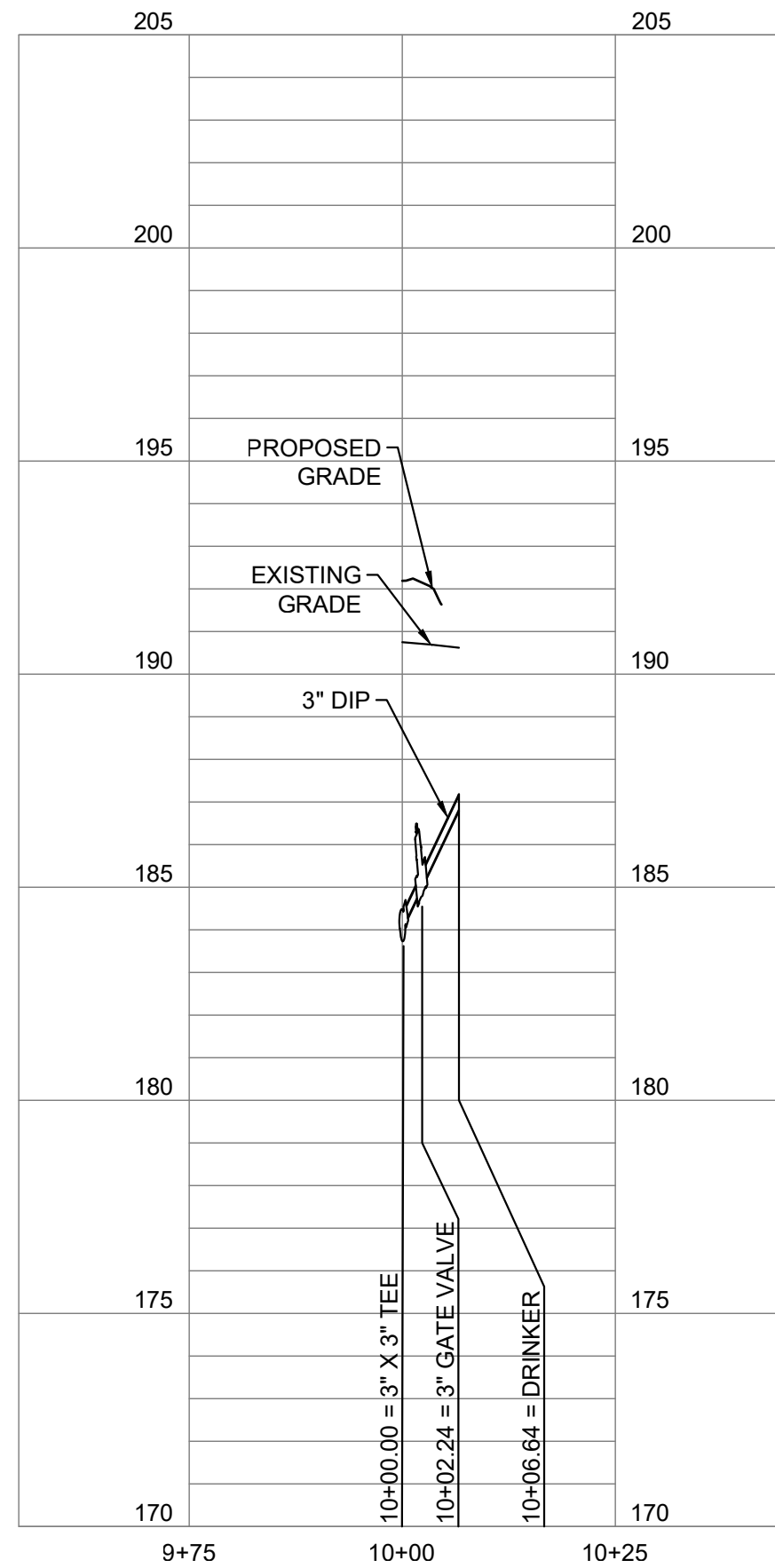
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SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 12+96.45 PROFILE 1, SHEET CU216



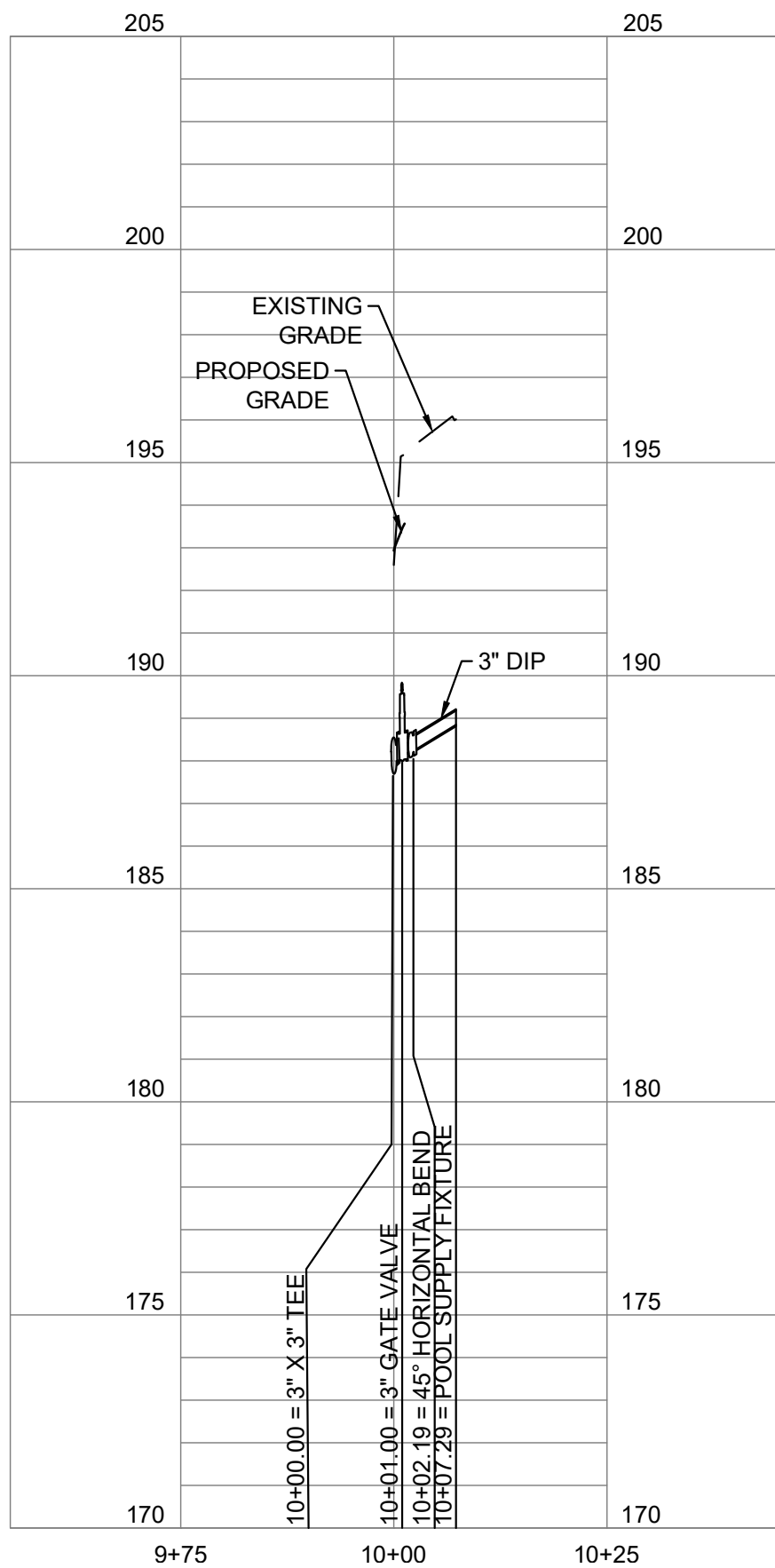
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SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 13+02.14 PROFILE 1, SHEET CU216



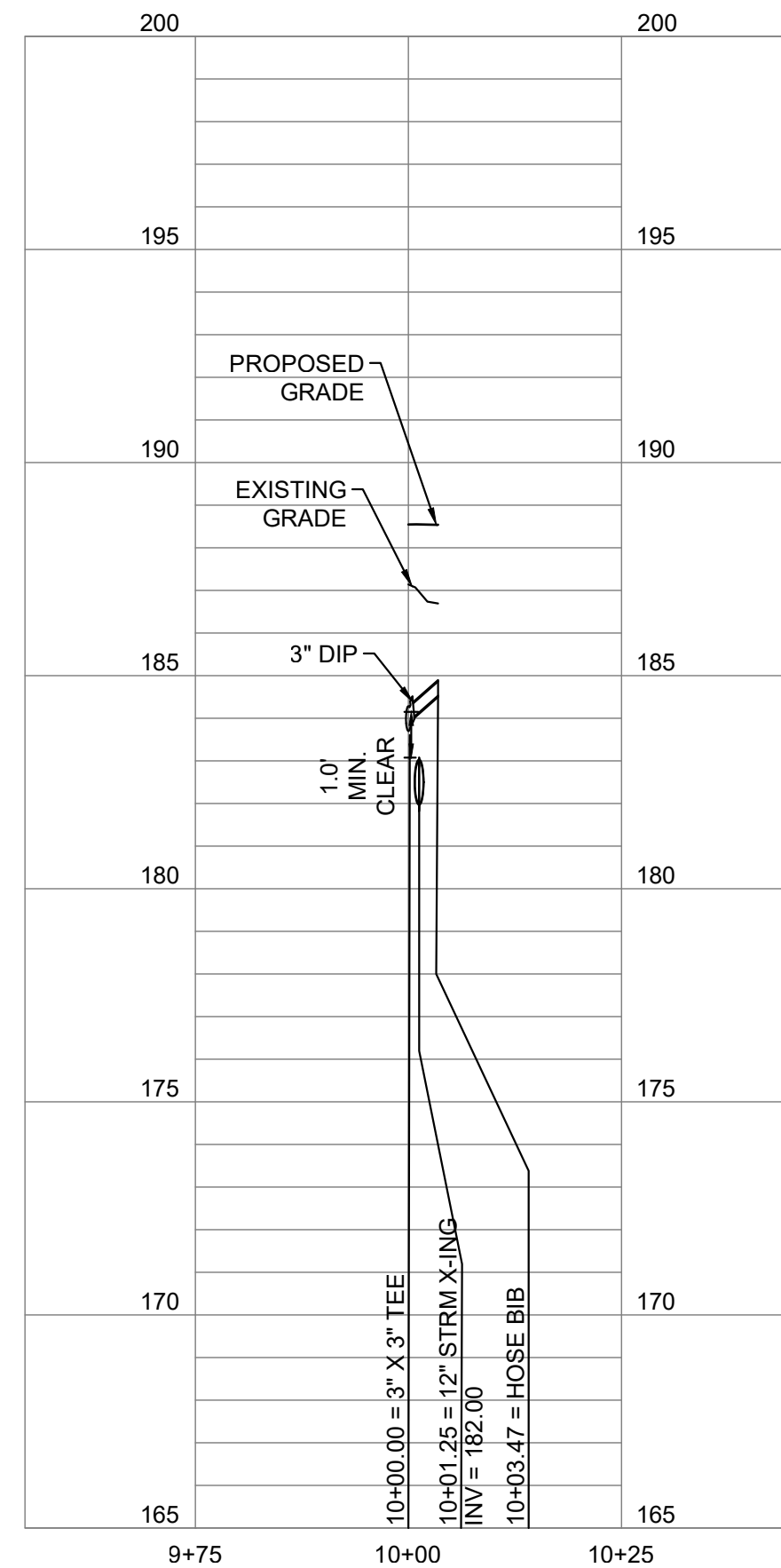
3 WATER LINE T: STA 10+00 TO 10+08.30
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 13+06.46 PROFILE 1, SHEET CU216



4 WATER LINE U: STA 10+00 TO 10+06.64
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 13+09.25 PROFILE 1, SHEET CU216



5 WATER LINE V: STA 10+00 TO 10+07.29
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



6 WATER LINE W: STA 10+00 TO 10+03.47
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'
NOTE: TEE AT STA. 10+00 IS AT STA. 10+23.88 PROFILE 1, SHEET CU216

DOB PERMIT STAMP

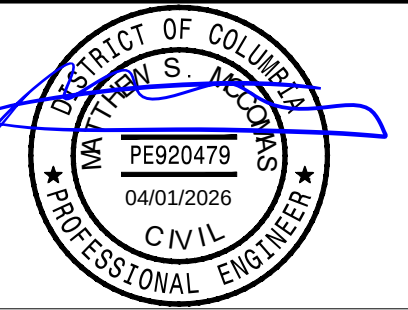
TEST PITS ARE REQUIRED AT ALL LOCATION(S) WHERE PROPOSED UTILITIES CROSS EXISTING UTILITIES. INVESTIGATION LOCATION(S) TO IDENTIFY HORIZONTAL LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES. THE OWNER IS TO BE NOTIFIED OF THIS INFORMATION.

GENERAL NOTE:
REFER TO EXHIBIT FOR HABITAT ROCK GRADE.

ALF

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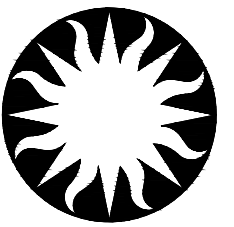
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REVISION # DATE	REVISION DESCRIPTION

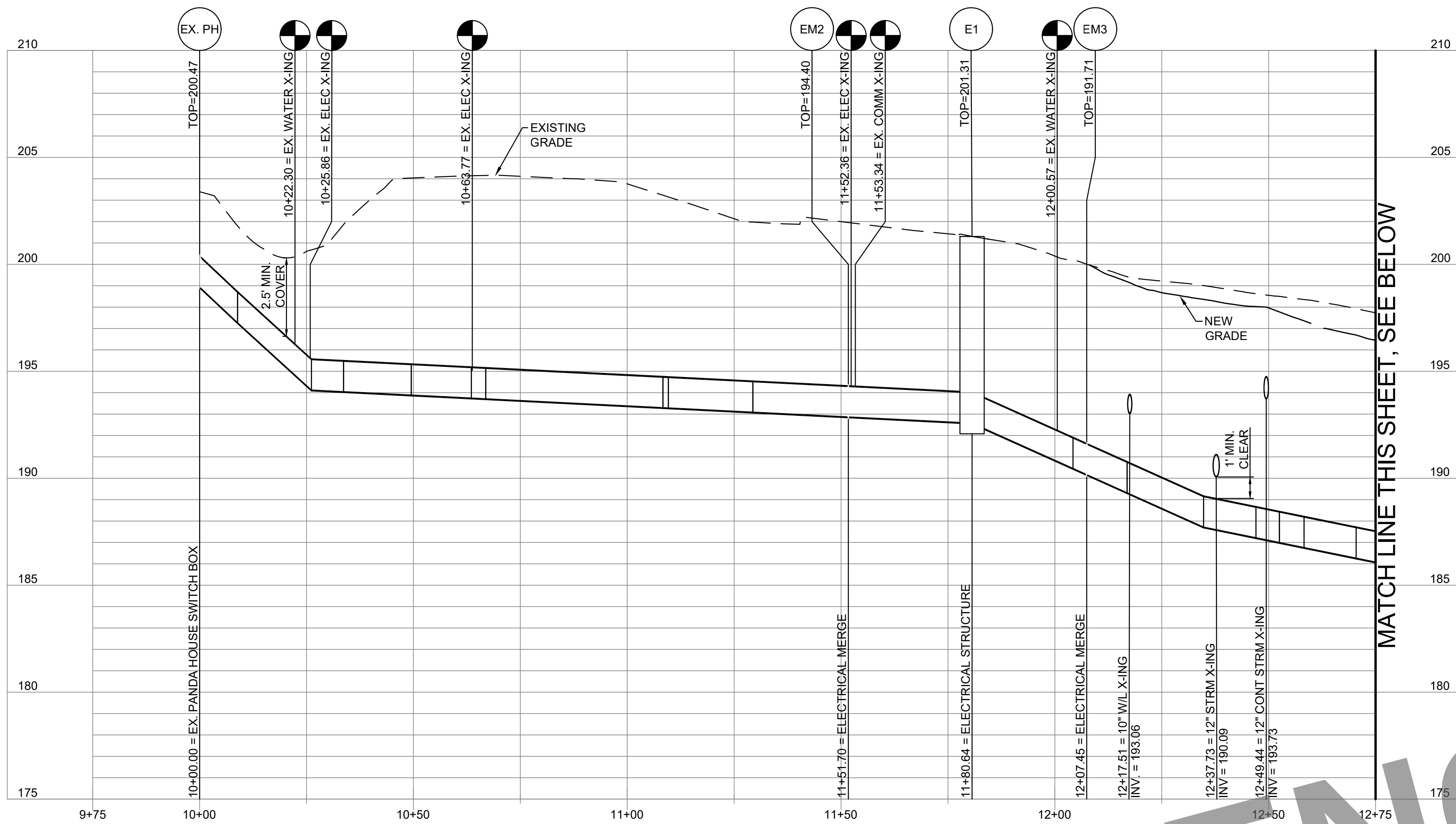


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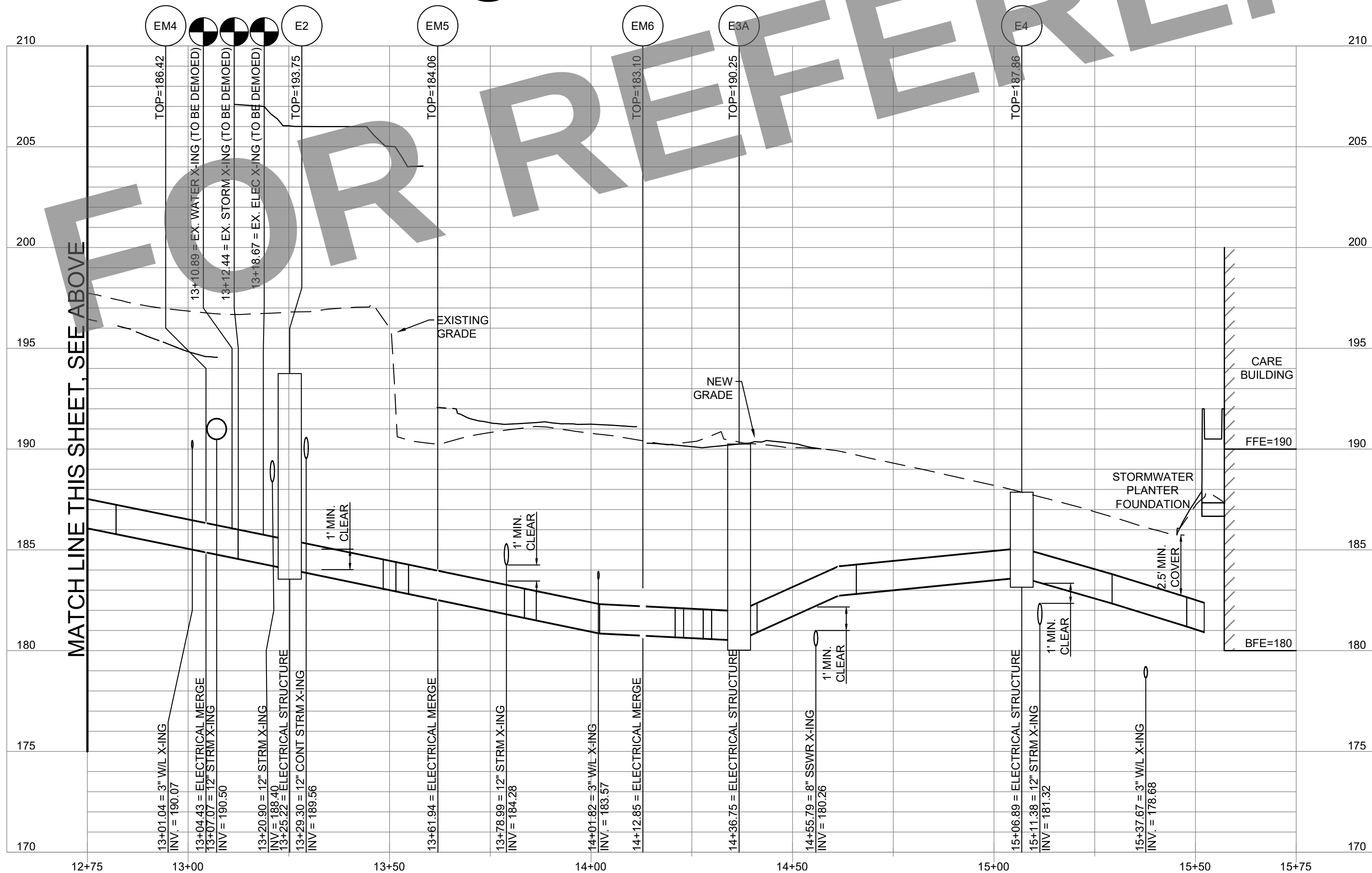
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600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME ADDRESS	ARABIAN LEOPARD FACILITY (ALF) 3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE OPDC PROJECT NUMBER A/E PROJECT NUMBER	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) 2533105 00100084
DRAWING TITLE WORKING STAFF	WATER PROFILES ST KK SM DESIGNED BY DRAWN BY CHECKED BY
SHEET NO. OF	C 2 18 UP DISCIPLINE TYPE SEQUENCE DRAWING TYPE

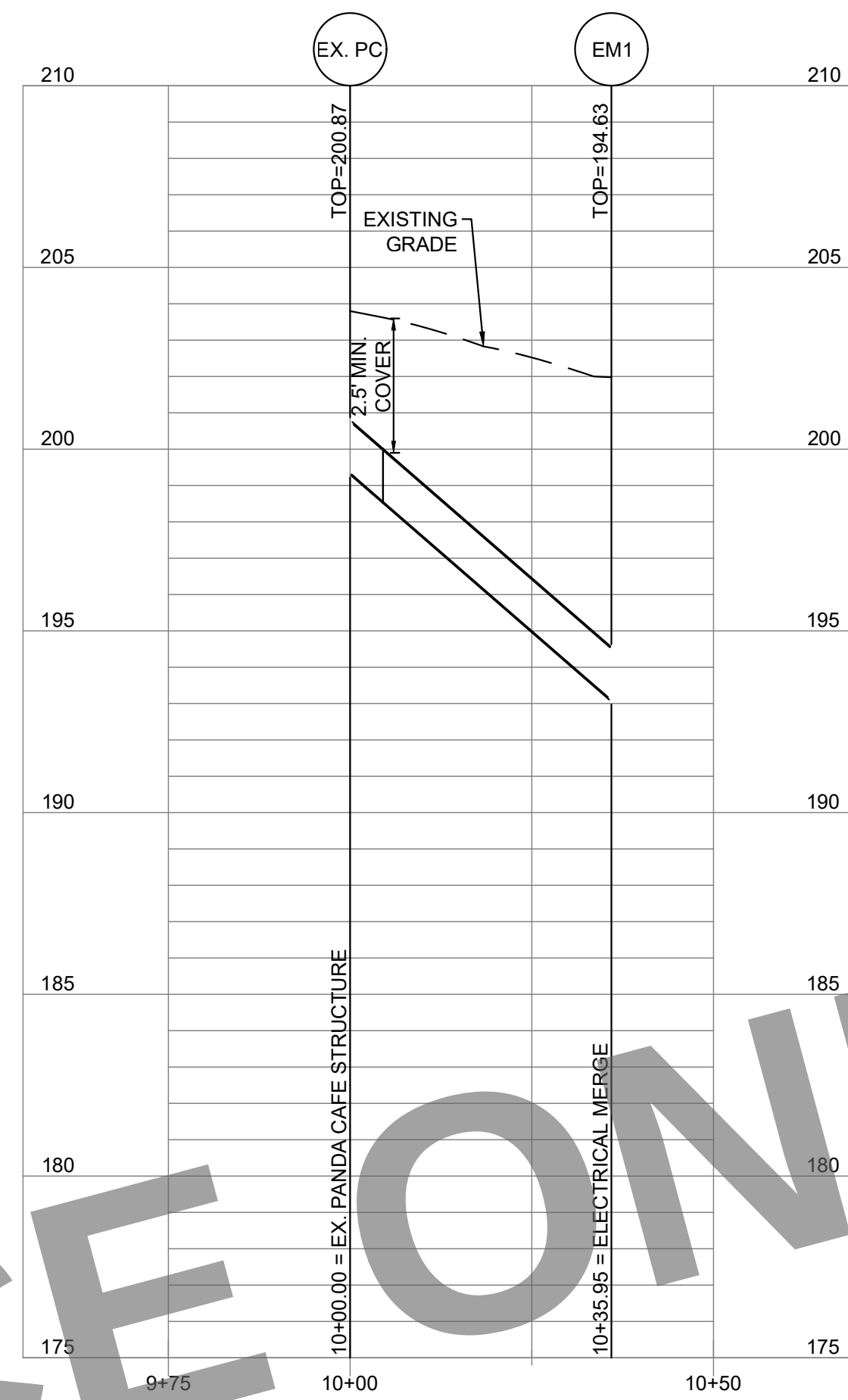
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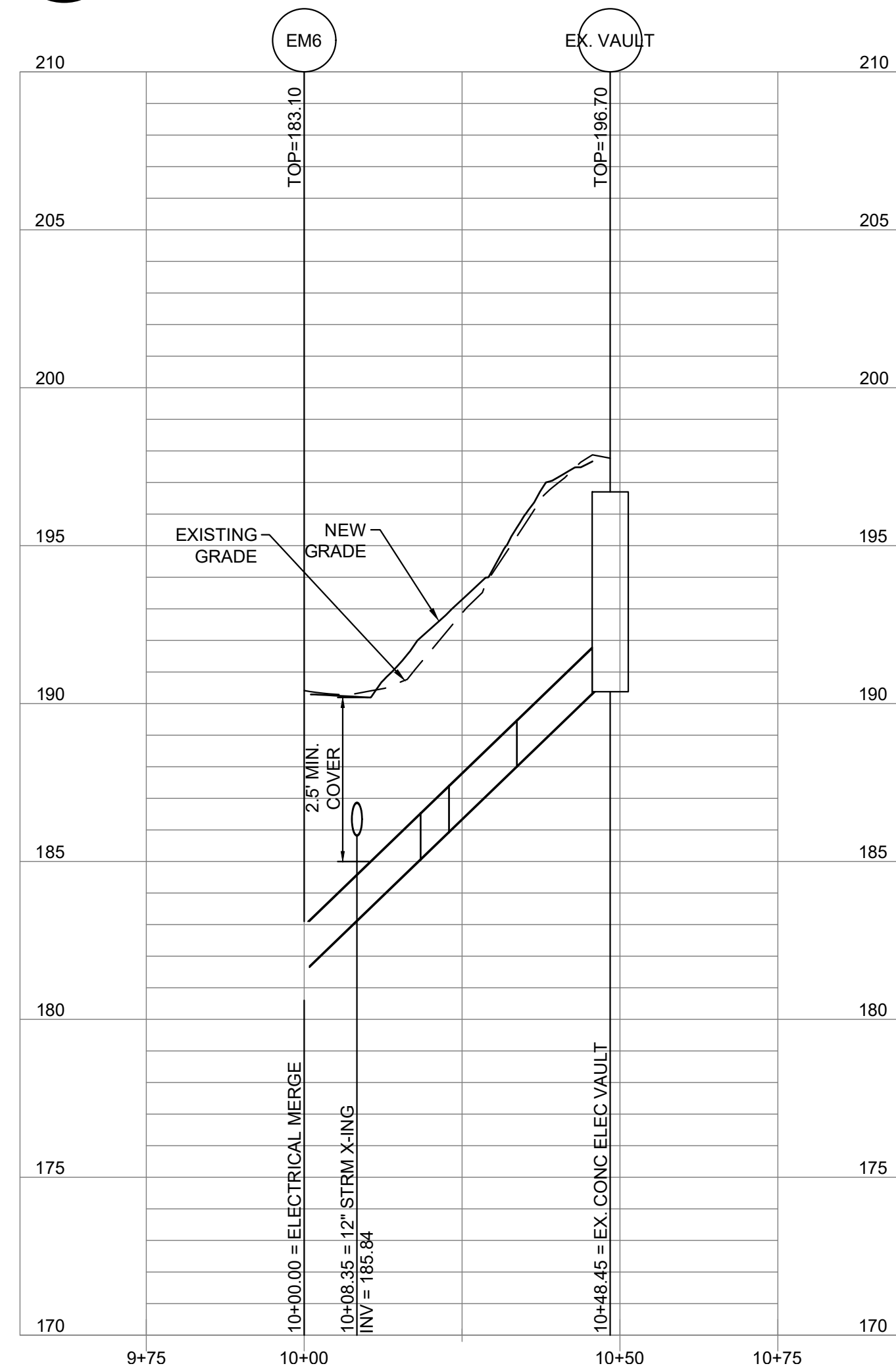
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PROFILE: STA 10+00 TO 12+75.00
C-220UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



3 EX. PH TO CARE BUILDING:
PROFILE: STA 12+75 TO 15+52.17
C-220UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



2 EX. PC TO ELEC MERGE:
PROFILE: STA 10+00 TO 10+35.95
C-220UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



4 EM5 TO EX. VAULT:
PROFILE: STA 10+00 TO 10+48.45
C-220UP SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'

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GENERAL NOTE:
REFER TO EXHIBIT FOR HABITAT ROCK GRADE.

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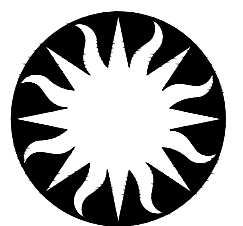
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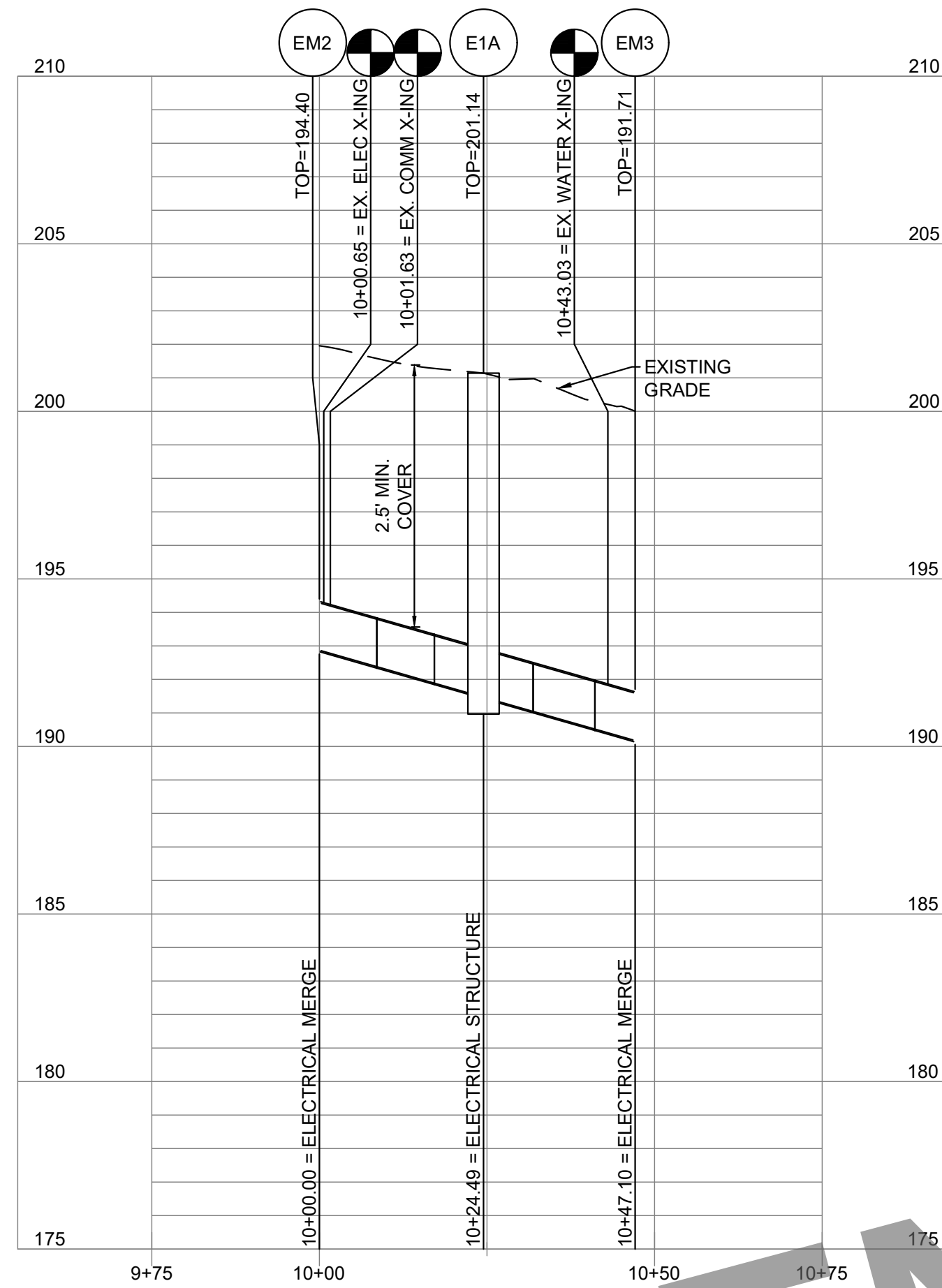
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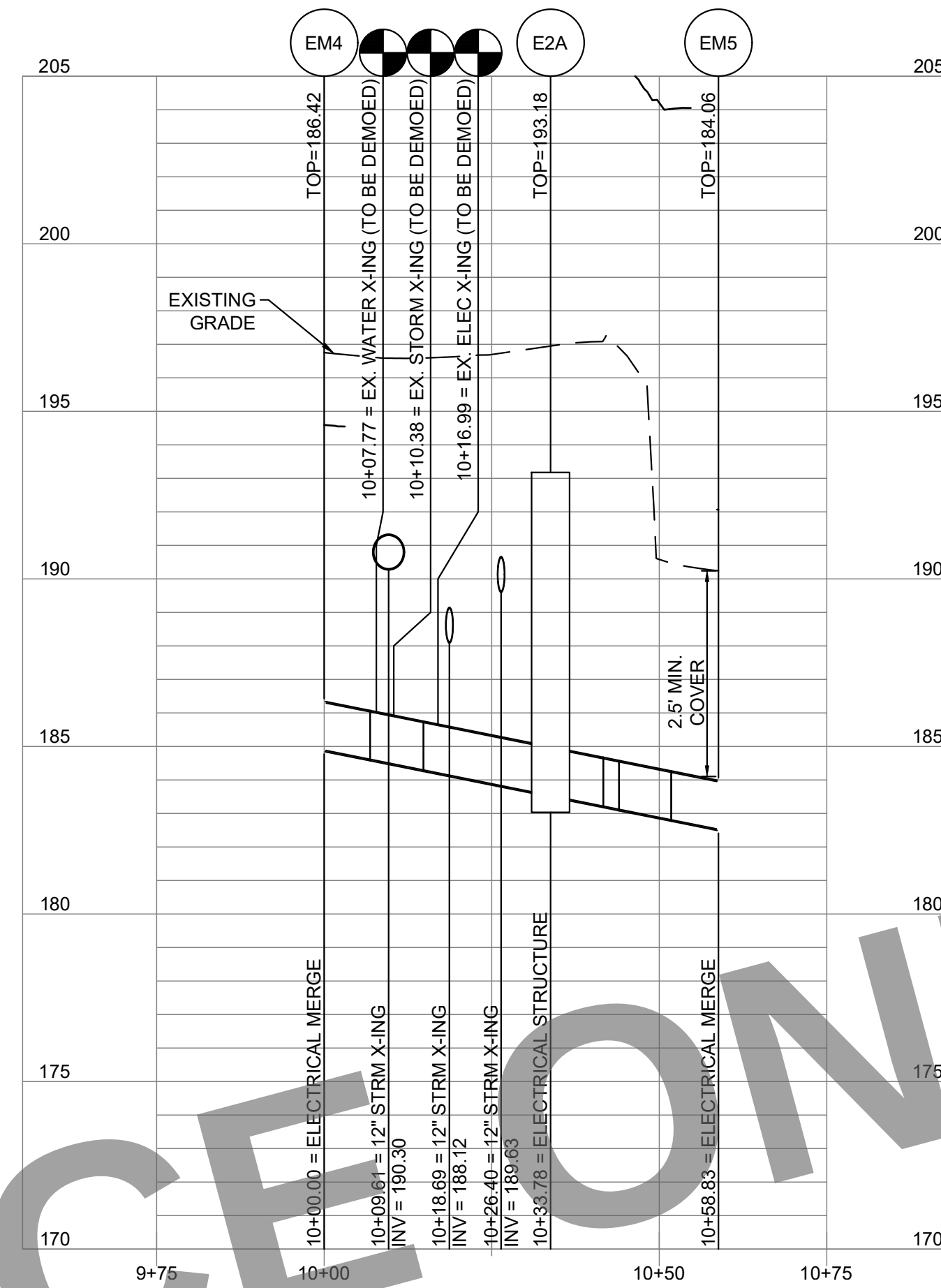
BUILDING NAME ARABIAN LEOPARD FACILITY (ALF)	ADDRESS 3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)	OPDC PROJECT NUMBER 2533105
	A/E PROJECT NUMBER 00100084
DRAWING TITLE ELECTRIC PROFILES	
WORKING STAFF	DESIGNED BY ST DRAWN BY KK CHECKED BY SM
SHEET NO. OF	C 2 20 UP
	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

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FOR REFERENCE ONLY



1
C-221UP
EM2 TO EM3:
PROFILE: STA 10+00 TO 10+35.95
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



2
C-221UP
EM4 TO EM5:
PROFILE: STA 10+00 TO 10+35.95
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'

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GENERAL NOTE:
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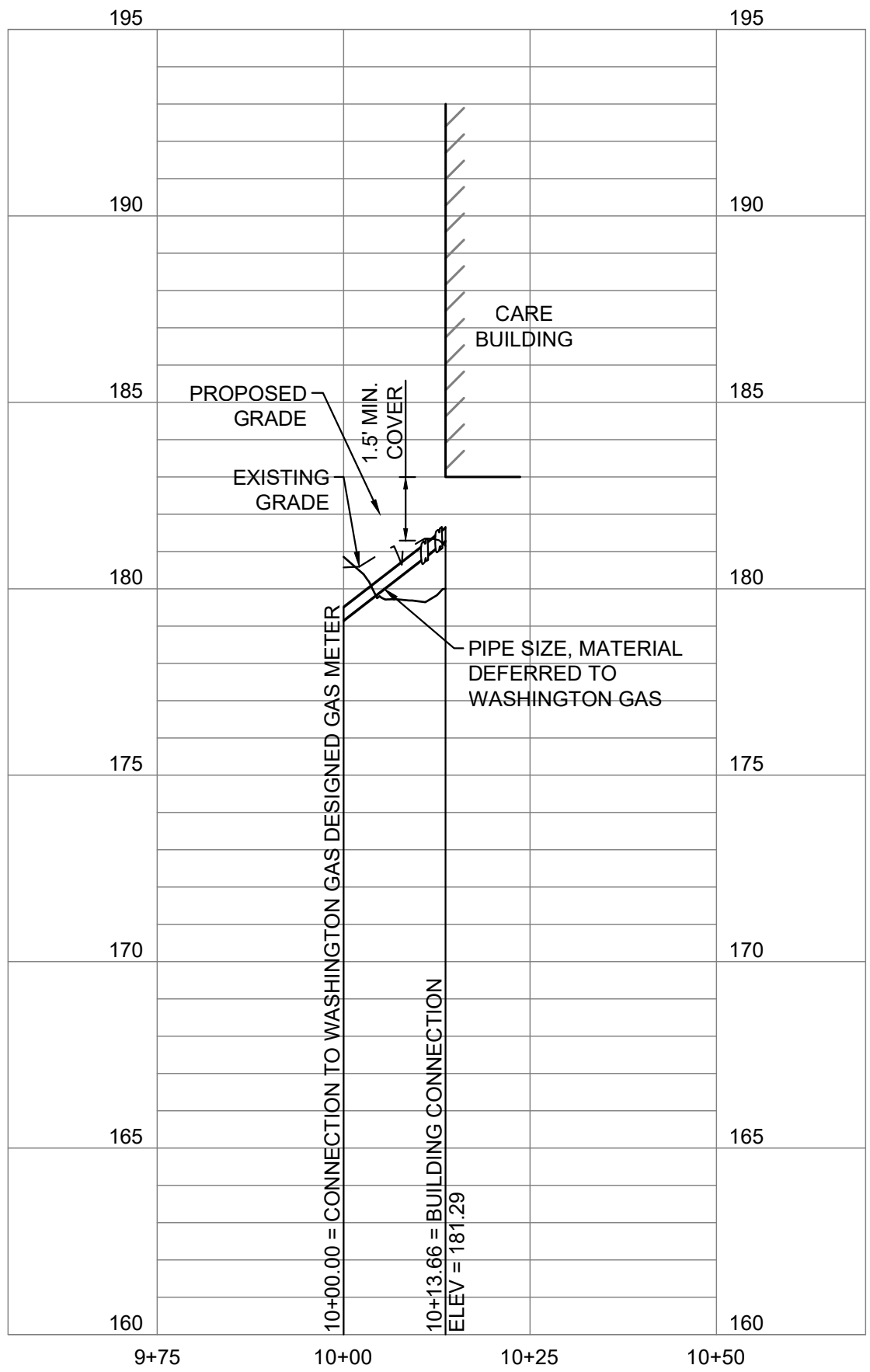
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DATE 04/02/2026	REVISION ISSUED FOR BID
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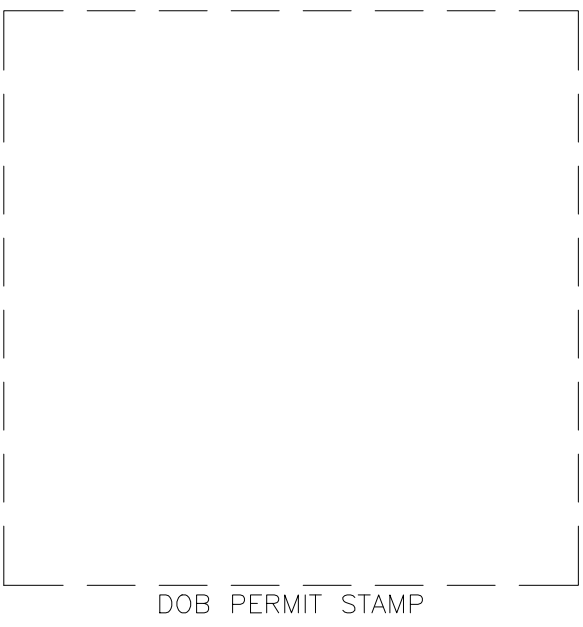


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PROJECT TITLE OPDC PROJECT NUMBER A/E PROJECT NUMBER	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) 2533105 00100084
DRAWING TITLE WORKING STAFF	ELECTRIC PROFILES ST KK SM DESIGNED BY DRAWN BY CHECKED BY
SHEET NO. OF	C 2 21 UP DISCIPLINE TYPE SEQUENCE DRAWING TYPE



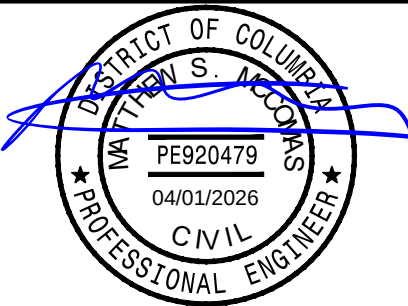
1
C-205UP
GAS METER TO BUILDING:
PROFILE: STA 10+00 TO 10+13.66
SCALE: HORIZ 1" = 20'
SCALE: VERT 1" = 4'



ALF

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FACILITY

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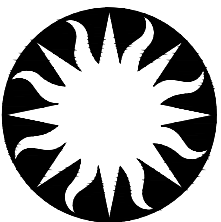


TRUE NORTH

KEY PLAN

GRAPHIC SCALE(S)

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



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Washington, DC 20024-2520

BUILDING NAME ADDRESS	ARABIAN LEOPARD FACILITY (ALF) 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	NATURAL GAS PROFILES		
WORKING STAFF	ST	KK	SM
DESIGNED BY	DRAWN BY	CHECKED BY	
SHEET NO. OF	C 2 25 UP		
	DISCIPLINE	TYPE	SEQUENCE

CONSTRUCT ARABIAN LEOPARD FACILITY

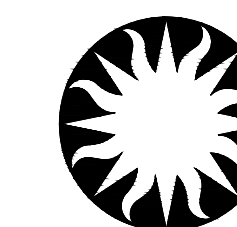
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Washington, DC 20024-2520

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

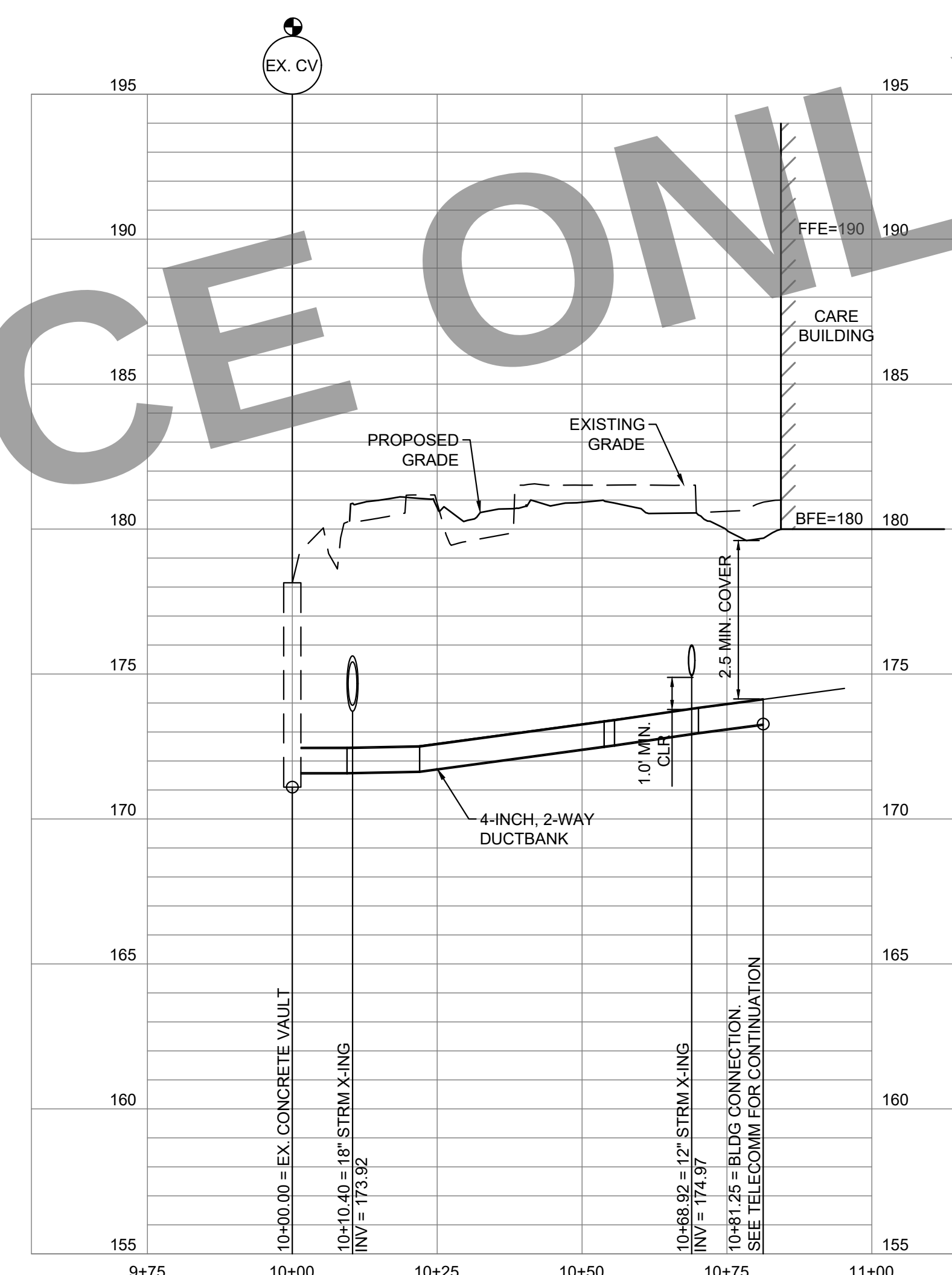
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OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084

DRAWING TITLE TELECOMMUNICATION PROFILES

WORKING STAFF	ST	KK	SM
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SHEET NO. C 230 UP
OF _____



1 EX. CV TO CARE BUILDING:
PROFILE: STA 10+00 TO 10+81.25

C-230UP SCALE : HORIZ 1" = 20'
SCALE : VERT 1" = 4'

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A. WORK UNDER THIS ITEM INCLUDES PROVIDING PROTECTION FOR EXISTING TREES WITHIN THE PROJECT LIMITS DURING CONSTRUCTION OPERATIONS. WORK SHALL INCLUDE PROTECTION BY FENCING OF ALL TREES WITHIN THE PROJECT BOUNDARIES AS INDICATED ON THE CONTRACT DOCUMENTS. THE CONTRACTOR IS LIABLE FOR REPLACEMENT AND REPAIR OF TREES OR DAMAGE TO TREES THAT ARE NOT PROTECTED OR ARE NOT PROTECTED OR FAILURE TO APPLY TREE PROTECTION DURING CONSTRUCTION OPERATIONS. FAILURE OF THE CONTRACTOR TO IMPLEMENT TREE CONSERVATION MEASURES OR TREE REPLACEMENT, AS DIRECTED BY THE ENGINEER, WILL RESULT IN COMPENSATION OR LIQUIDATED DAMAGES TO THE GOVERNMENT ACCORDING TO THE SCHEDULE OF PAYMENT CONTAINED HEREIN. ANY REPLACEMENT DETERMINED TO BE REQUIRED BY THE ENGINEER MUST BE PERFORMED WITHIN TWO (2) WEEKS OF NOTIFICATION, UNLESS OUTSIDE OF THE PLANTING SEASON, IN WHICH CASE REPLACEMENT MUST OCCUR WITHIN THE FIRST TWO (2) WEEKS OF THE PLANTING SEASON. FOR SPECIFICS OF TREE PRESERVATION, SEE TREE PRESERVATION DRAWINGS. ALL TREE PRESERVATION REQUIRES OVERSIGHT BY A LICENSED ARBORIST.

ALL TREES TO BE PRESERVED SHALL BE PROTECTED AGAINST DAMAGE DURING CONSTRUCTION OPERATIONS BY FENCING. THE TREE PROTECTION FENCING SHALL BE PLACED BEFORE ANY EXCAVATION OR GRADING HAS COMMENCED. DETAILS OF THE MINIMUM ACCEPTABLE TREE PROTECTION ARE SHOWN IN THE CONTRACT DOCUMENTS. NO EQUIPMENT, TRAILERS OR MATERIALS MAY BE PLACED WITHIN THE DRIP LINE OF EXISTING TREES TO BE RETAINED WITHIN THE PROJECT LIMITS WITH THE EXCEPTION OF PAVED AREAS OR AREAS TO BE PAVED.

IF ANY TREES NOT DESIGNATED TO BE REMOVED ARE SEVERELY INJURED OR KILLED BY THE CONTRACTOR'S OPERATIONS FOR ANY REASON, THEY SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE GOVERNMENT. TREES REPLACED IN KIND SHALL BE PLANTED AS DIRECTED BY COTR. THE COTR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING WHETHER OR NOT A GIVEN INJURY IS SUFFICIENT TO WARRANT REPAIR, REPLACEMENT OR MONETARY COMPENSATION BY THE CONTRACTOR. MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS:

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

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

CONSTRUCTION OPERATIONS ADJACENT TO EXISTING TREES SHALL BE PERFORMED IN ACCORDANCE WITH THE DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES SECTIONS 107.12 AND 608.04(B), OR BY A CERTIFIED ARBORIST MEETING THEIR APPROVAL. WHEN AUTHORIZED BY THE ENGINEER, THE CONTRACTOR MAY CUT MINOR ROOTS (LESS THAN 2 INCHES IN DIAMETER) WITH HIS OWN FORCES. WHEN TRENCING OR WHEN OLD CURB, GUTTER, OR SIDEWALK IS REMOVED, DAMP BURLAP SHALL BE PLACED OVER EXPOSED ROOTS AND KEPT DAMP AT ALL TIMES UNTIL THE NEW WORK IS PLACED. TRENCH EXCAVATION SHALL FOLLOW THE DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES SECTIONS 207.03 TO AVOID ROOT DAMAGE TO ROOTS LARGER THAN 2 INCHES IN DIAMETER. EXPOSED OR CUT ROOTS SHALL BE BACKFILLED WITH PREPARED FERTILIZER-ENRICHED PLANTING SOIL MIX TO ENCOURAGE ROOT GROWTH. FERTILIZER IS NOT NEEDED UNLESS AN ELEMENT IS SHOWN TO BE DEFICIENT.

IN ALL OPERATIONS INVOLVING UTILITY TRENCHING, THE WORK SHALL BE PERFORMED AS PER THE DISTRICT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES SECTIONS 207.03. WHENEVER POSSIBLE, ROOT CUTTING SHALL BE AVOIDED; NO PART OF THE ROOT BALL SHALL BE TRENCHED. UTILITY TRENCHING SHALL NOT BE ALLOWED IF TREE ROOTS ARE WITHIN THE TRENCH AREA DETERMINED AS THE DRIP-LINE OF THE TREE. THESE EXCAVATIONS SHALL BE AUGURED OR TUNNELED, AS NECESSARY, TO PREVENT ROOT CUTTING.

IN CURB INSTALLATIONS, IT IS RECOMMENDED THAT CURBING BE BRIDGED ACROSS THE LENGTH OF THE TREE SPACE, WITHOUT A DRY MIX BACKING BLOCK. IN ORDER TO AVOID ANY TRENCHING EXCAVATION IN THE VICINITY OF THE ROOTS. THE LENGTH OF CURBING PLACED ADJACENT TO THE LENGTH OF THE TREE SPACE SHALL THEN BE DOWELED OR PINNED TO THE STANDARD CURB CONSTRUCTION OUTSIDE THE TREE SPACE.

TREES LOCATED ADJACENT TO CONSTRUCTION WORK SHALL BE WATERED AT TEN (10) DAY INTERVALS THROUGHOUT THE GROWING SEASON. THE CONTRACTOR SHALL SUPPLY WATERING BAGS OF SAME TYPE THAT ARE SOLD IN THE INDUSTRY AND FILL THEM ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS OR AT A MINIMUM KEEPING THE BAG FULL DURING THE GROWING SEASON. NO EQUIPMENT, TRAILERS, OR MATERIAL SHALL BE PLACED WITHIN 20 FEET OR WITHIN THE DRIP LINES OF ANY TREE TO BE SAVED, WHICHEVER IS GREATER.

ANY DAMAGE DONE TO EXISTING TREE TRUNKS, CROWNS, OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR, AT HIS EXPENSE, UNDER THE DIRECTION OF SMITHSONIAN GARDENS.

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

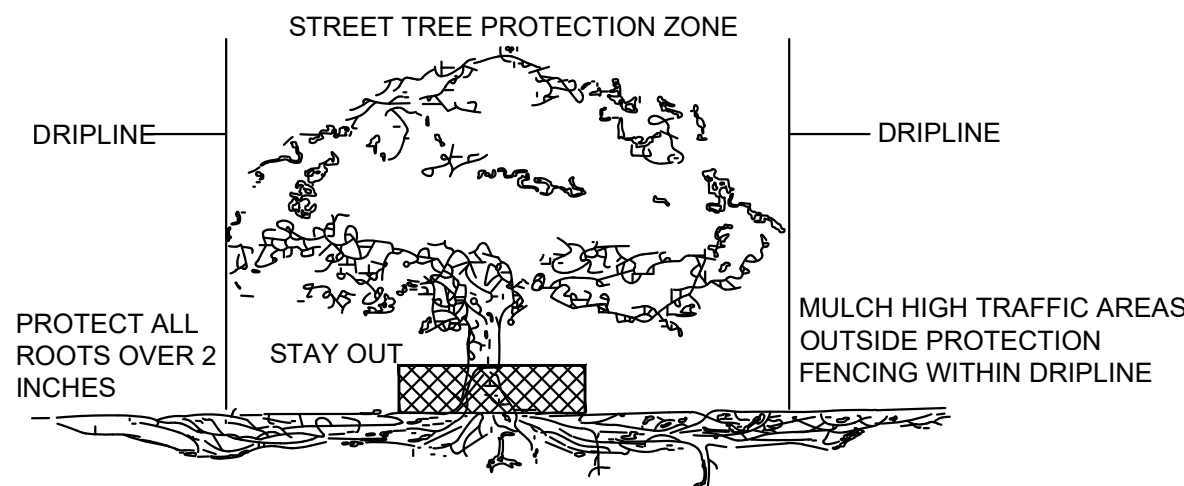
MAINTAIN TREE PROTECTION ZONES FREE OF WEEDS AND TRASH.
INSTALL MYCORRHIZAL FUNGAL INOCULATION INSIDE THE TREE PROTECTION
ZONE AS REQUIRED BY THE MANUFACTURER.

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

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

C. MEASURE AND PAYMENT:

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



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

FUELS AND OILS

TO SURFACE WATERS, INSTALL CONTAINMENT BERMS AND, OR SECONDARY CONTAINMENTS AROUND REFUELING AREAS AND STORAGE TANKS. SPILLS WILL BE CLEANED UP IMMEDIATELY AND CONTAMINATED SOILS DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL AND DISTRICT OF COLUMBIA REGULATIONS. PETROLEUM PRODUCTS WILL BE STORED IN CLEARLY LABELED TIGHTLY SEALED CONTAINERS. ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND WILL RECEIVE REGULAR PREVENTIVE MAINTENANCE ACTIVITIES. ALL WASTE OILS AND SPILLS WILL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SPILL KITS SHALL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES.

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

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

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

PAINT AND OTHER CHEMICALS

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

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

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

SANITARY WASTE

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

1. CONTACT THE DOE INSPECTOR AS SOON AS POSSIBLE BEFORE CONSTRUCTION BEGINS TO DISCUSS TREE PROTECTION MEASURES. CONTACT THE CERTIFIED ARBORIST IF THE CREW ENCOUNTERS ANY CONFLICTS WITH THE TREE ROOTS 2" DIAMETER OR LARGER DURING EXCAVATION.

2. DO NOT CUT ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHOUT THE DOEE INSPECTOR'S PERMISSION. THIS MUST BE PERFORMED UNDER SUPERVISION OF AN ARBORIST.
3. WRAP EXPOSED ROOTS 2 INCHES AND LARGER IN DIAMETER IN BURLAP OR OTHER APPROVED MATERIAL AND KEEP MOIST AT ALL TIMES.
4. THE CONTRACTOR MUST ADHERE TO THE FOLLOWING TREE PROTECTION CONDITIONS AND ALL PROTECTION MEASURES SHALL COMPLY WITH THE 2017 DC ESC GUIDEBOOK.
5. TREES WITHIN OR DIRECTLY ADJACENT TO THE LIMITS OF WORK MUST BE PROTECTED WITH RIGID MATERIAL (2" X 4" FRAMING COVERED BY STAPLED ORANGE FENCE), 6' TALL. THE CRITICAL ROOT ZONE (CRZ) IS MEASURED AT 4.5 FEET ABOVE THE GROUND (DIAMETER BREST HEIGHT (DBH)) FROM ALL SIDES OF THE TREE TRUNK. THE CRZ EQUALS THE MEASUREMENT FORM THE FACE (NOT CENTER) OF THE TRUNK TO THE DISTANCE THAT EQUALS THE TREE'S DIAMETER MULTIPLIED TIME 1.5 FEET. IF THE TREE IS ON A SLOPE, MULTI-STEMMED AND/OR SPLITTS BELOW 4.5 FEET FROM THE FOLLOWING SHALL OCCUR WITHIN THE CRITICAL ROOT ZONE OF A TREE: ALTERATION OR DISTURBANCE TO EXISTING GRASS TAGGING/STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT, SOIL, OR DEBRIS; DISPOSAL OF ANY LIQUIDS E.G. CONCRETE, GAS, OIL, PAINT; AND BLACKTOP, AND TRENCHING.

6. INSTALL ONLY TREE CHAINSAW/SUPER SILT FENCE METHODS WITHIN THE CRITICAL ROOT ZONE OF A TREE; TREECHLESS METHODS SUCH AS FILTER LOGS, SILT/SOXX, STRAW BALES, OR AN APPROVED EQUIVALENT SHALL BE USED.
7. NO HEAVY EQUIPMENT SHALL BE USED TO EXCAVATE WITHIN THE CRITICAL ROOT ZONE. EXCAVATIONS SHALL PROCEED WITH CARE BY USE OF HAND TOOLS OR EQUIPMENT THAT WILL NOT CAUSE INJURY TO TREE TRUNKS, BRANCHES, AND ROOTS.
8. IF FOR ANY REASON THE SCOPE OF THE PROJECT REQUIRES WORK TO BE PERFORMED WITHIN THE FENCED PROTECTION ZONE, THE PERMIT HOLDER MUST CONTACT THE DCEE INSPECTOR TO RECEIVE CLEARANCE TO CONTINUE THE CONFLICTING WORK.
9. TREE BRANCHES THAT INTERFERE WITH THE CONSTRUCTION MAY BE TIED BACK OR PRUNED ONLY TO THE POINT NECESSARY TO COMPLETE THE WORK. TYING BACK OR TRIMMING OF ALL BRANCHES MUST BE IN ACCORDANCE WITH ACCEPTED ARBORICULTURAL PRACTICES (ANSI A300, PART 8) AND BE PERFORMED UNDER SUPERVISION OF AN ARBORIST.

GENERAL NOTES:

1. FOLLOWING INITIAL LAND DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR INTERIM STABILIZATION MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FOR THE SURFACES OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND SLOPES GREATER THAN THREE (3) HORIZONTAL TO ONE (1) VERTICAL (3:1); AND FOURTEEN (14) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. THESE REQUIREMENTS DO NOT APPLY TO AREAS SHOWN ON THE PLAN THAT ARE USED FOR MATERIAL STORAGE OTHER THAN STOCKPILING, OR FOR THOSE AREAS ON THE PLAN WHERE ACTUAL CONSTRUCTION ACTIVITIES ARE BEING PERFORMED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY SO THAT STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE DISTRICT OF COLUMBIA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL(ESC).[21 DCMR § 542.9 (O)]
2. ESC MEASURES SHALL BE IN PLACE BEFORE AND DURING LAND DISTURBANCE. [21 DCMR § 543.6]
3. CONTACT DDOE INSPECTION (202) 535-2977 TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST THREE (3) BUSINESS DAYS BEFORE THE COMMENCEMENT OF A LAND-DISTURBING ACTIVITY. [21 DCMR § 503.7 (A)]
4. A COPY OF THE APPROVED PLAN SET WILL BE MAINTAINED AT THE CONSTRUCTION SITE FROM THE DATE THAT CONSTRUCTION ACTIVITIES BEGIN TO THE DATE OF FINAL STABILIZATION AND WILL BE AVAILABLE FOR DDOE INSPECTORS. [21 DCMR § 542.15]
5. ESC MEASURES SHALL BE IN PLACE TO STABILIZE AN EXPOSED AREA AS SOON AS PRACTICABLE AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED BUT NO LATER THAN FOURTEEN (14) DAYS FOLLOWING CESSATION, EXCEPT THAT TEMPORARY OR PERMANENT STABILIZATION SHALL BE IN PLACE AT THE END OF EACH DAY OF UNDERGROUND UTILITY WORK THAT IS NOT CONTAINED WITHIN A LARGER DEVELOPMENT SITE. [21 DCMR § 543.7]
6. STOCKPILED MATERIAL BEING ACTIVELY USED DURING A PHASE OF CONSTRUCTION SHALL BE PROTECTED AGAINST EROSION BY ESTABLISHING AND MAINTAINING PERIMETER CONTROLS AROUND THE STOCKPILE. [21 DCMR § 543.16 (A)]
7. STOCKPILED MATERIAL NOT BEING ACTIVELY USED OR ADDED TO SHALL BE STABILIZED WITH MULCH, TEMPORARY VEGETATION, HYDRO-SEED OR PLASTIC WITHIN FIFTEEN (15) CALENDAR DAYS AFTER ITS LAST USE OR ADDITION. [21 DCMR § 543.16 (B)]
8. FILL MATERIAL MUST BE FREE OF CONTAMINATION LEVELS OF ANY POLLUTANT THAT IS, OR MAY BE CONSIDERED TO REPRESENT, A POSSIBLE HEALTH HAZARD TO THE PUBLIC OR MAY BE DETRIMENTAL TO SURFACE OR GROUND WATER QUALITY, OR WHICH MAY CAUSE DAMAGE TO PROPERTY OR THE DRAINAGE SYSTEM ALL FILL MATERIAL MUST BE FREE OF HAZARDOUS MATERIALS AND COMPLY WITH ALL APPLICABLE DISTRICT AND FEDERAL REGULATIONS.
9. PROTECT BEST MANAGEMENT PRACTICES FROM SEDIMENTATION AND OTHER DAMAGE DURING CONSTRUCTION FOR PROPER POST CONSTRUCTION OPERATION. [21 DCMR § 543.5]
10. REQUEST A DDOE INSPECTOR'S APPROVAL AFTER THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. [21 DCMR §542.12 (A)]
11. REQUEST A DDOE INSPECTOR'S APPROVAL AFTER FINAL STABILIZATION OF THE SITE AND BEFORE THE REMOVAL OF EROSION AND SEDIMENT CONTROLS. [21 DCMR § 542.12 (B)]
12. FINAL STABILIZATION MEANS THAT ALL LAND-DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND EITHER OF THE FOLLOWING TWO CRITERIA HAVE BEEN MET: (1) A TURF (FOR EXAMPLE, EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF SEVENTY PERCENT (70%) OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR (2) EQUIVALENT PERMANENT STABILIZATION MEASURES HAVE BEEN EMPLOYED (SUCH AS THE USE OF RIPRAP, GABIONS, OR GEOTEXTILES). [21 DCMR § 542.12 (B.1, B.2)]
13. FOLLOW THE REQUIREMENTS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND MAINTAIN A LEGIBLE COPY OF THIS SWPPP ON SITE. [21 DCMR § 543.10 (B)]
14. POST A SIGN THAT NOTIFIES THE PUBLIC TO CONTACT DDOE IN THE EVENT OF EROSION OR OTHER POLLUTION. THE SIGN WILL BE PLACED AT EACH ENTRANCE TO THE SITE OR AS DIRECTED BY THE DDOE INSPECTOR. EACH SIGN WILL BE NO LESS THAN 18X24 INCHES IN SIZE AND MADE OF MATERIALS THAT WILL WITHSTAND WEATHER FOR THE DURATION OF THE PROJECT. LETTERING WILL BE AT LEAST 1 INCH IN HEIGHT AND EASILY READABLE BY THE PUBLIC FROM A DISTANCE OF TWELVE FEET (12 FT). THE SIGN MUST DIRECT THE PUBLIC, IN SUBSTANTIALLY THE FOLLOWING FORM: "TO REPORT EROSION, RUNOFF, OR STORMWATER POLLUTION" AND WILL PROVIDE THE CONSTRUCTION SITE ADDRESS, DDOE'S TELEPHONE NUMBER (202-535-2977), DDOE'S E-MAIL ADDRESS (IEB.SCHEDULING@dc.gov), AND THE 311 MOBILE APP HEADING ("CONSTRUCTION-EROSION RUNOFF"). [21 DCMR §543.22]
15. A RESPONSIBLE PERSON MUST BE PRESENT OR AVAILABLE WHILE THE SITE IS IN LAND-DISTURBING PHASE. THE RESPONSIBLE PERSON IS CHARGED WITH BEING AVAILABLE TO (A) INSPECT THE SITE AND ITS ESC MEASURES AT LEAST ONCE BIWEEKLY AND AFTER A RAINFALL EVENT TO IDENTIFY AND REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM, (B) RESPOND TO EACH POTENTIAL OR ACTUAL EROSION PROBLEM IDENTIFIED BY CONSTRUCTION PERSONNEL, AND (C) SPEAK ON SITE WITH DDOE TO REMEDY EACH POTENTIAL OR ACTUAL EROSION PROBLEM. A RESPONSIBLE PERSON SHALL BE (A) LICENSED IN THE DISTRICT OF COLUMBIA AS A CIVIL OR GEOTECHNICAL ENGINEER, A LAND SURVEYOR, OR ARCHITECT; OR (B) CERTIFIED THROUGH A TRAINING PROGRAM THAT DDOE APPROVES, INCLUDING A COURSE ON EROSION CONTROL PROVIDED BY ANOTHER JURISDICTION OR PROFESSIONAL ASSOCIATION, DURING CONSTRUCTION. THE RESPONSIBLE PERSON SHALL KEEP ON SITE PROOF OF PROFESSIONAL LICENSING OR OF SUCCESSFUL COMPLETION OF A DDOE-APPROVED TRAINING PROGRAM. [21 DCMR § 547]

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

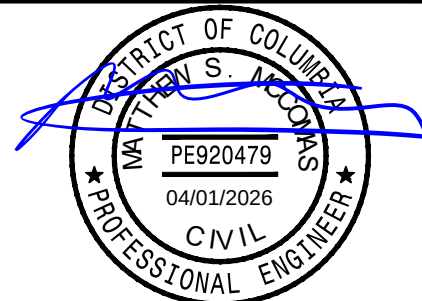
TEMPORARY SEEDING SUMMARY					
SEED MIXTURE				FERTILIZER RATE (10-10-10)	LIME RATE
SPECIES	SEEDING RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS (IN.)		
ANNUAL RYEGRASS	40	02/15 TO 04/30; 08/15 TO 11/30;	0.5	436 lb/ac (10lb/ 1,000 ft).	2 tons/ac (90lb/ 1,000 ft).
BARLEY	96	02/15 TO 04/30; 08/15 TO 11/30;	1.0		
OATS	72	02/15 TO 04/30; 08/15 TO 11/30;	1.0		
WHEAT	120	02/15 TO 04/30; 08/15 TO 11/30;	1.0		
CEREAL RYE	112	02/15 TO 04/30; 08/15 TO 12/15;	1.0		
FOXTAIL MILLET	30	05/01 TO 08/14;	0.5		
PEARL MILLET	20	05/01 TO 08/14;	0.5		

SITE PREPARATION

1. INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OR PERMANENT) SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS, OR SEDIMENT CONTROL BASINS.
2. PERFORM ALL GRADING OPERATIONS AT RIGHT ANGLES TO THE SLOPE. FINAL GRADING AND SHAPING IS NOT USUALLY NECESSARY FOR TEMPORARY SEEDING.

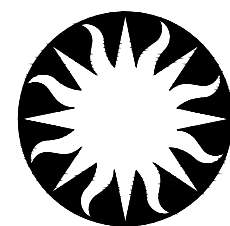
3. SCHEDULE REQUIRED SOIL TESTS TO DETERMINE SOIL AMENDMENT COMPOSITION AND APPLICATION RATES FOR SITES HAVING DISTURBED AREA OVER 5 ACRES.
 4. DISTRIBUTE LIME AND FERTILIZER EVENLY AND INCORPORATE THEM INTO THE TOP 3-5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4-8 TONS PER ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.
- SEEDBED PREPARATION**
1. TEMPORARY SEEDING
 - (a) SEEDBED PREPARATION MUST CONSIST OF LOOSENING SOIL TO A DEPTH OF 3 INCHES TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT SHOULD NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. TRACK SLOPED AREAS (GREATER THAN 3:1) LEAVING THE SURFACE IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
 - (b) APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
 - (c) INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 INCHES TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
 2. PERMANENT STABILIZATION - FOR PERMANENT STABILIZATION OUTSIDE THE ANIMAL HABITAT, REFER TO THE LANDSCAPE PLANS. FOR PERMANENT STABILIZATION INSIDE THE ANIMAL HABITAT, REFER TO THE EXHIBIT PLANS.

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KEY PLAN

GRAPHIC SCALE(S)

[illegible]

Smithsonian
Institution

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

BUILDING NAME

ADDRESS

PROJECT TITLE

OPDC PROJECT NUMBER

A/E PROJECT NUMBER

DRAWING TITLE

WORKING STATE

ST

DESIGNED BY

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APPROVED

NAME

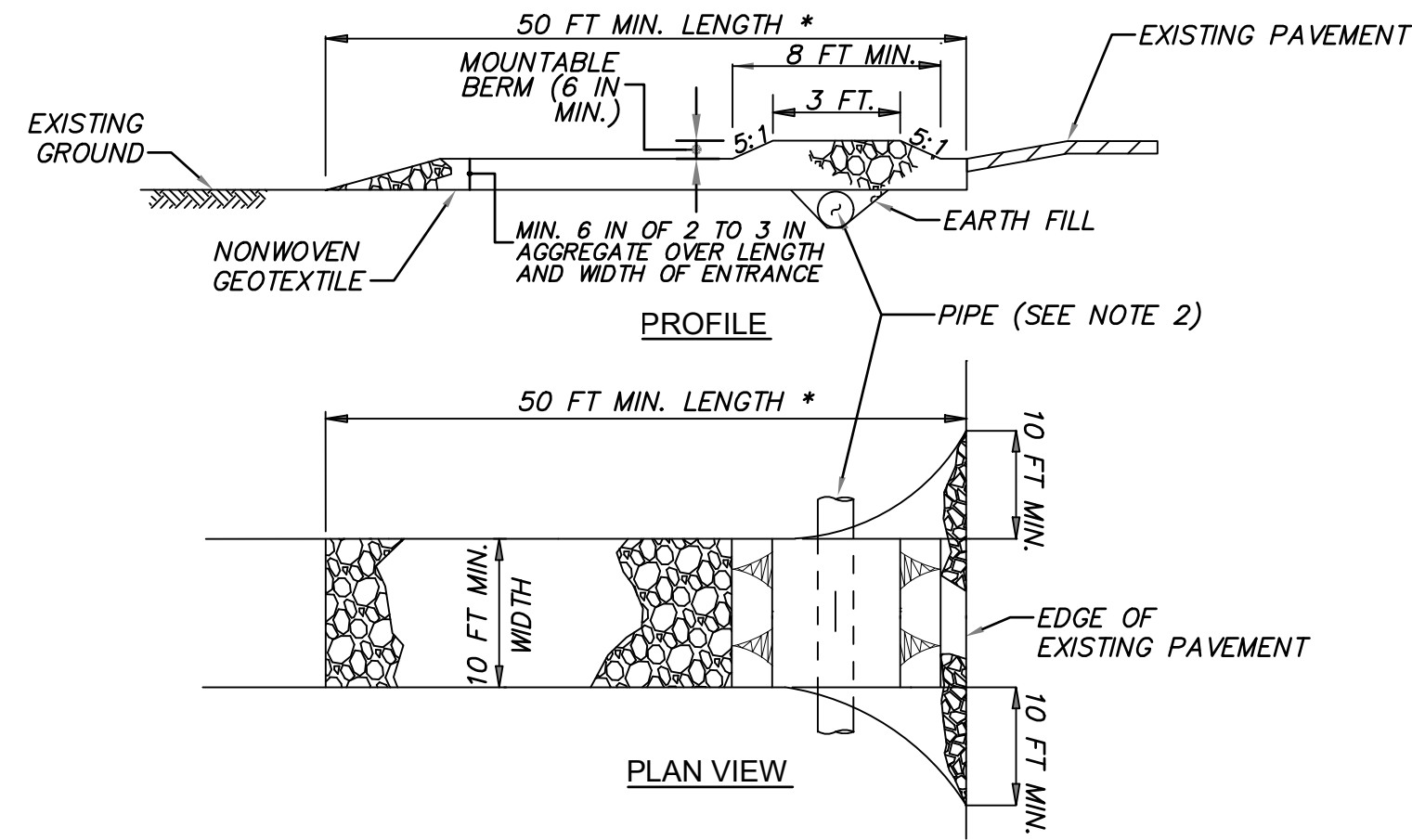
SIGNATURE

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CONSTRUCTION SPECIFICATIONS

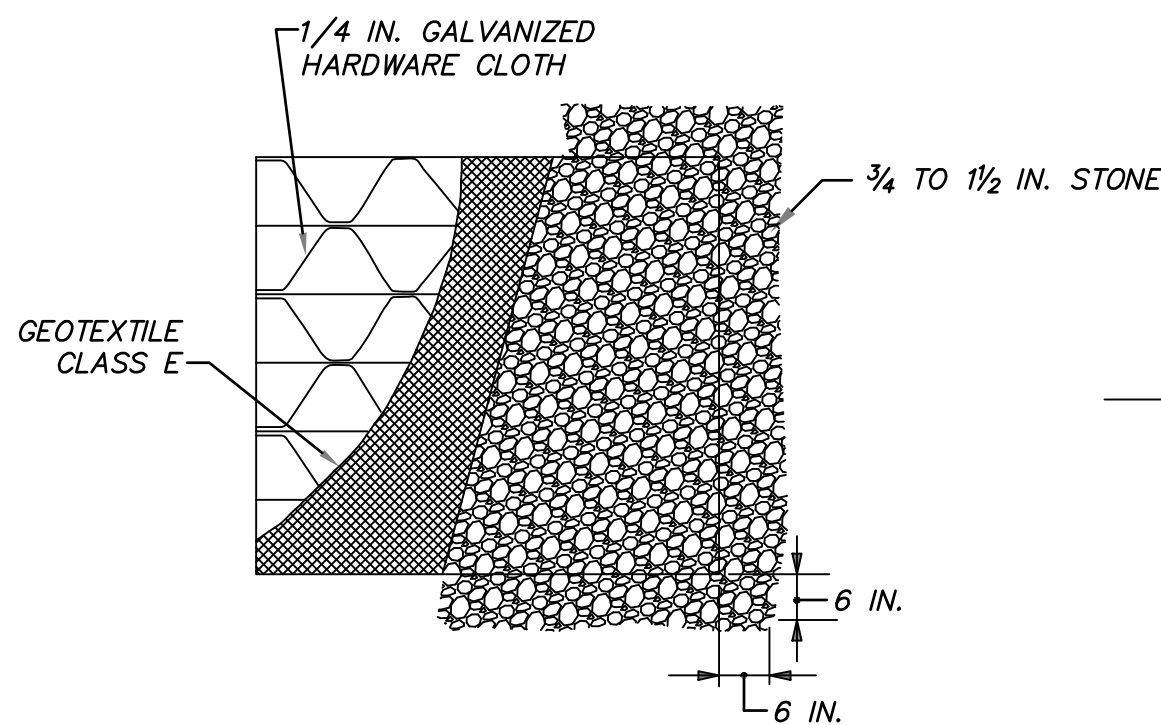
1. PLACE THE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE A MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE-FAMILY RESIDENCE LOT) AND A MINIMUM WIDTH OF 10 FEET. FLARE THE SCE AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE MAINTAINING POSITIVE DRAINAGE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. PROVIDE PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN THE SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

STABILIZED CONSTRUCTION ENTRANCE

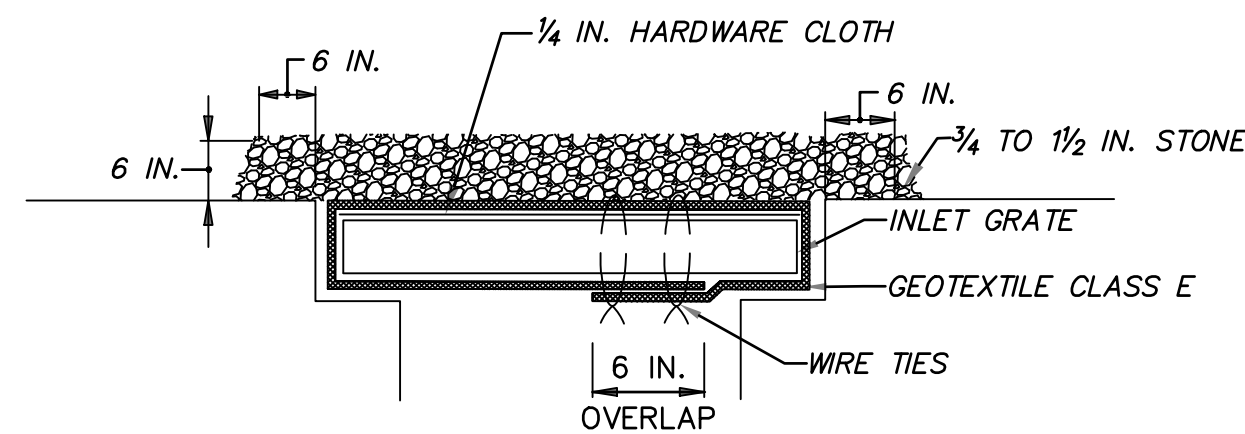
DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 201.1

MAXIMUM DRAINAGE AREA = 1/4 ACRE



PLAN/CUT AWAY VIEW



CROSS SECTION

CONSTRUCTION SPECIFICATIONS

1. LIFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS, SECURE WITH WIRE TIES, THEN SET GRATE BACK IN PLACE.
2. PLACE CLEAN 3/4 TO 1-1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 4 TO 6 INCHES THICK ON THE GRATE TO SECURE THE FABRIC.
3. IF THERE ARE ANY SIGNS OF STREET FLOODING OR WATER PONDING, THIS STRUCTURE MUST BE CLEANED OR REPLACED, OR REDESIGNED WITH A VIABLE ALTERNATIVE.

AT GRADE INLET PROTECTION STORM DRAIN INLET PROTECTION

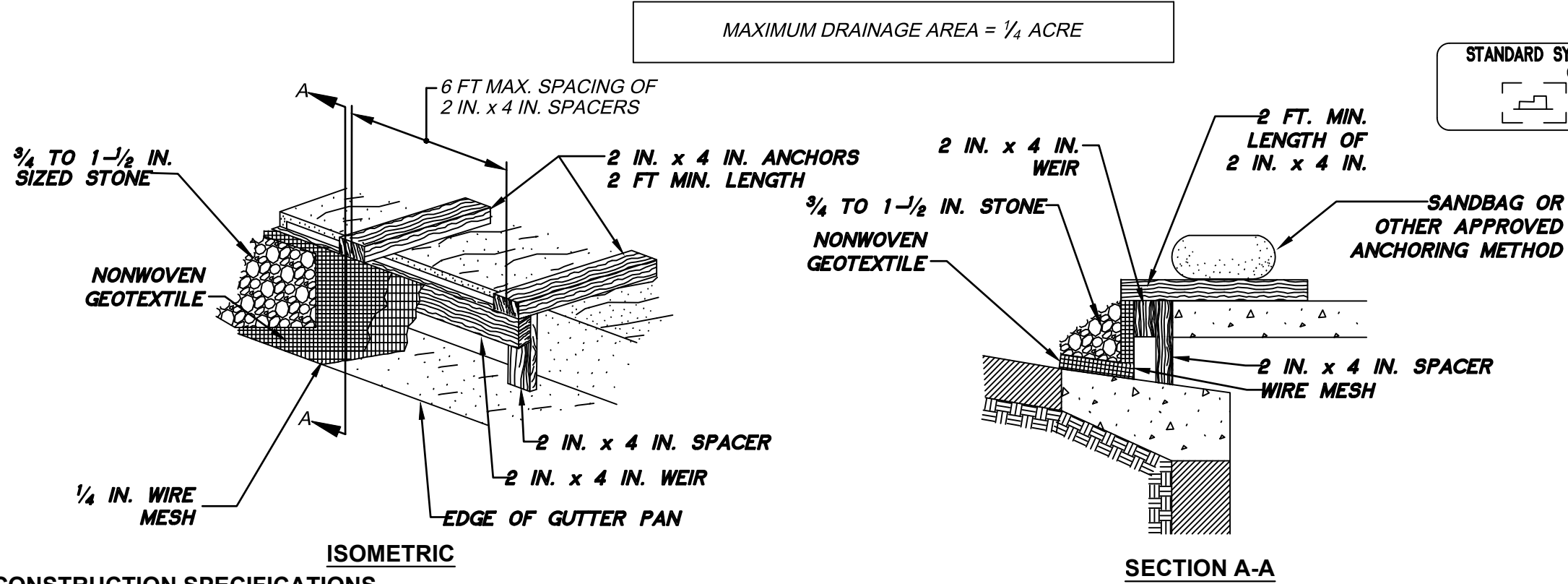
DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 307.2

SOURCE: 2011 MARYLAND STANDARDS AND SPECIFICATIONS

1 CONSTRUCTION ENTRANCE DETAIL SCALE: NOT TO SCALE

2 AT GRADE INLET PROTECTION DETAIL SCALE: NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. ATTACH A CONTINUOUS PIECE OF 1/2 INCH x 1/2 INCH WIRE MESH, (30 INCHES MINIMUM WIDTH BY THROAT LENGTH, PLUS 4 FEET) TO THE 2-INCH x 4-INCH WEIR (MEASURING THROAT LENGTH PLUS 2 FEET) AS SHOWN ON THE STANDARD DRAWING.
2. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2-INCH x 4-INCH WEIR.
3. SECURELY NAIL THE 2-INCH x 4-INCH WEIR TO A 9-INCH LONG VERTICAL SPACER TO BE LOCATED BETWEEN THE WEIR AND THE INLET FACE (MAXIMUM 4 FEET APART).
4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2-FOOT LENGTHS OF 2-INCHES x 4-INCHES TO THE TOP OF THE WEIR AT SPACER LOCATIONS). EXTEND THESE 2-INCH x 4-INCH ANCHORS ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.
5. PLACE THE ASSEMBLY SO THAT THE END SPACERS ARE 1 FOOT BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE 1/2-INCH x 1/2-INCH WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4 TO 1-1/2 INCH STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE GEOTEXTILE FABRIC AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOWS DO NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.
9. IF THERE ARE ANY SIGNS OF STREET FLOODING OR WATER PONDING, THIS STRUCTURE MUST BE CLEANED OR REPLACED, OR REDESIGNED WITH A VIABLE ALTERNATIVE SUCH AS 3.3 FILTER SOCK.

*NOTE: FILTER SOCK IS AN ALTERNATIVE WHICH IS EASIER TO INSTALL AND MAINTAIN THAN THIS STANDARD DESIGN.

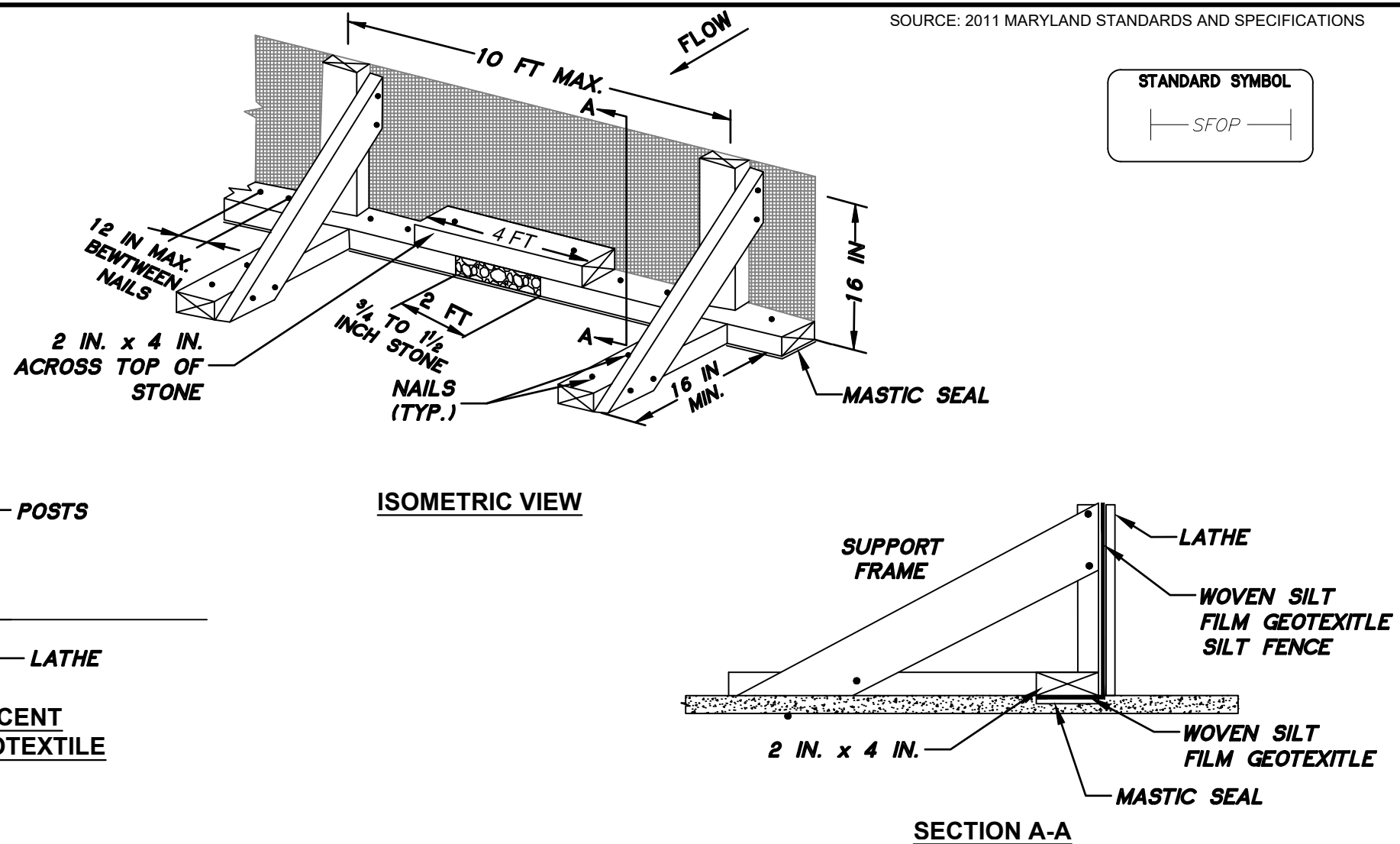
CURB INLET PROTECTION STORM DRAIN INLET PROTECTION

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 307.3

SOURCE: 2011 MARYLAND STANDARDS & SPECIFICATIONS

3 CURB INLET PROTECTION DETAIL SCALE: NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH BY 4 INCH LUMBER.
2. USE WOVEN SILT FILM GEOTEXTILE, AS SPECIFIED IN APPENDIX A.
3. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
4. PROVIDE A 2-FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
5. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN - OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
7. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
8. SECURE BOARDS TO PAVEMENT WITH 40D 5-INCH MINIMUM LENGTH NAILS.
9. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

SILT FENCE ON PAVEMENT

DISTRICT OF COLUMBIA
DEPARTMENT OF ENERGY & ENVIRONMENT

DWG. NO 310.1

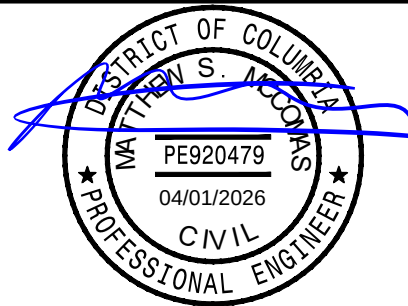
SOURCE: 2011 MARYLAND STANDARDS & SPECIFICATIONS

4 SILT FENCE ON PAVEMENT DETAIL SCALE: NOT TO SCALE

ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

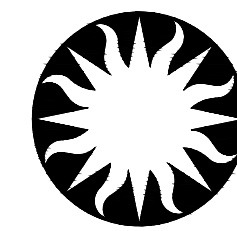
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KEY PLAN

GRAPHIC SCALE(S)

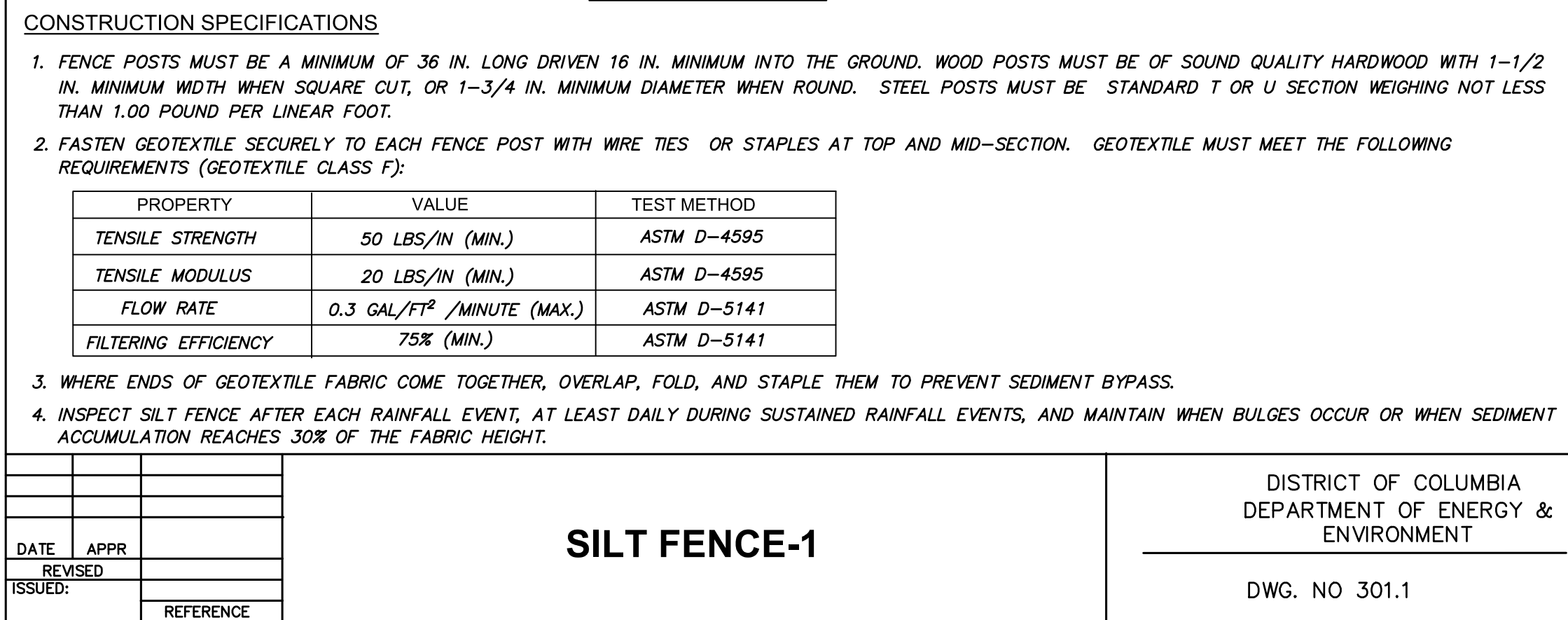
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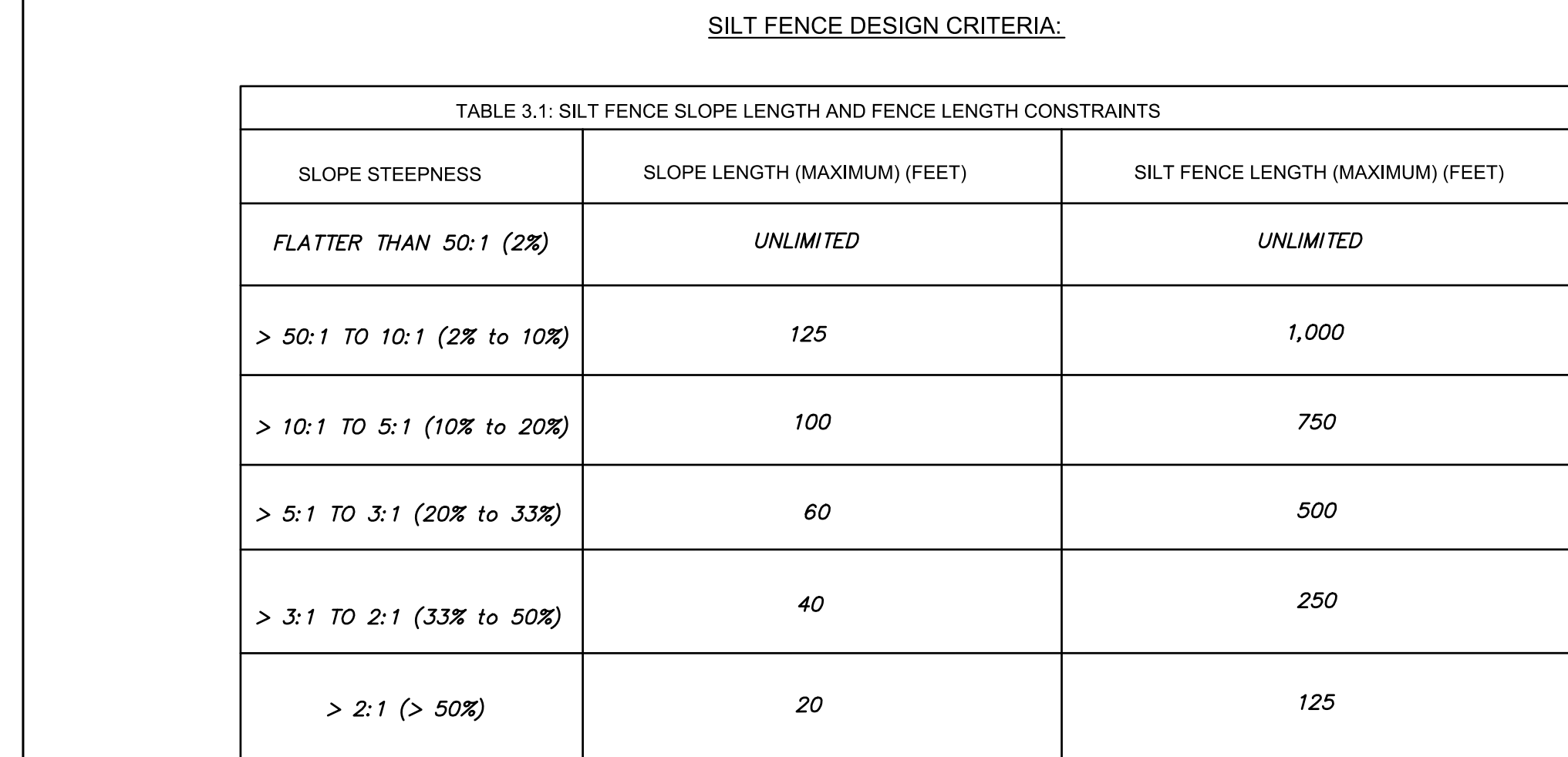
Smithsonian Institution

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

BUILDING NAME ADDRESS	ARABIAN LEOPARD FACILITY (ALF) 3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE OPDC PROJECT NUMBER A/E PROJECT NUMBER	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) 2533105 00100084
DRAWING TITLE	EROSION & SEDIMENT CONTROL DETAILS
WORKING STAFF	ST KK SM DESIGNED BY DRAWN BY CHECKED BY
SHEET NO. OF	C 501 DT DISCIPLINE TYPE SEQUENCE DRAWING TYPE



SOURCE: 2011 MARYLAND STANDARDS & SPECIFICATIONS

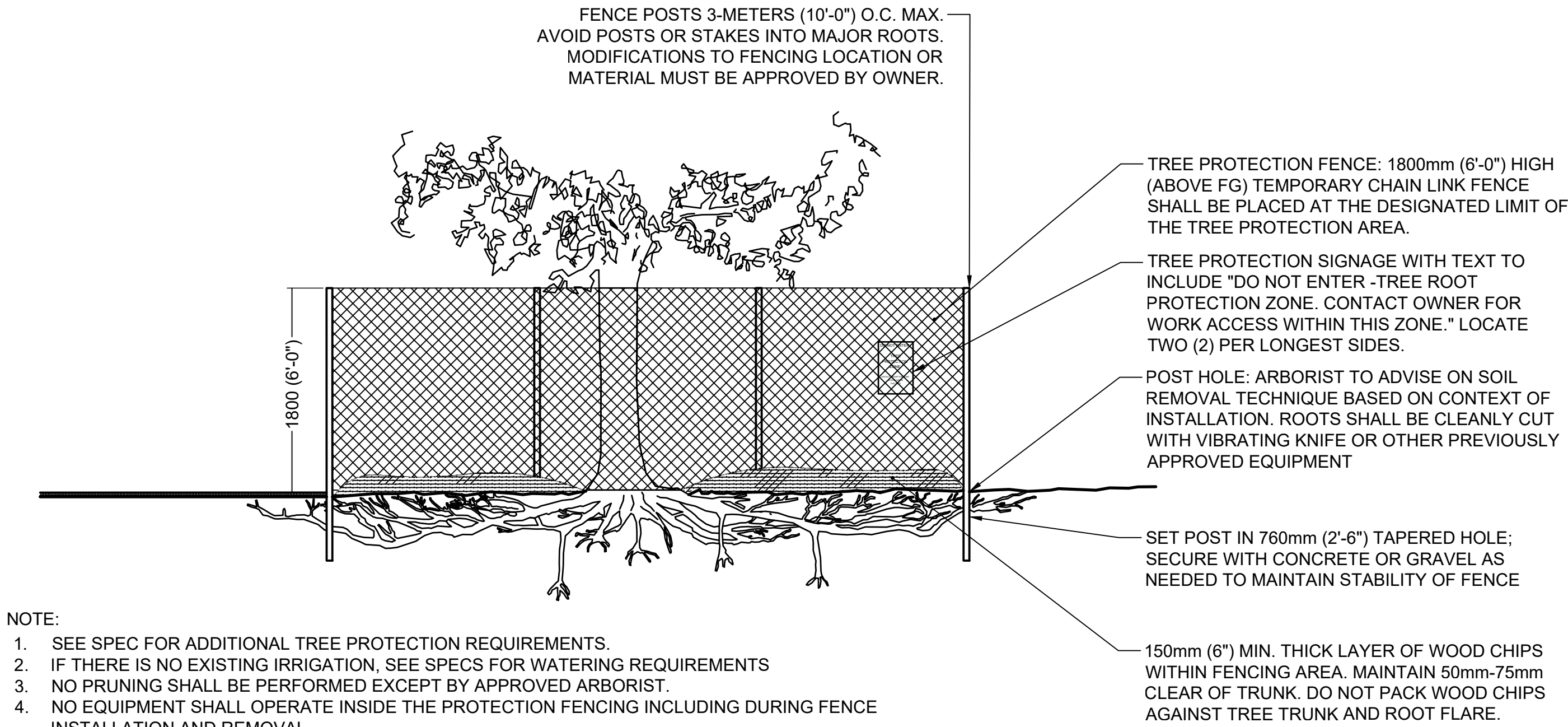


			SILT FENCE-2	DISTRICT OF COLUMBIA DEPARTMENT OF ENERGY & ENVIRONMENT DWG. NO 301.2
DATE	APPR			
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		REFERENCE		

SOURCE: 2011 MARYLAND STANDARDS & SPECIFICATIONS



SHEET NO. **C 5 02 DT**

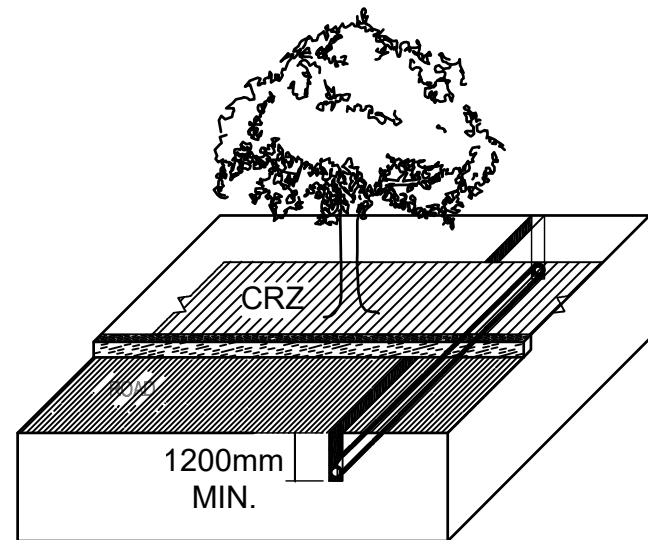


- NOTE:
- SEE SPEC FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 - IF THERE IS NO EXISTING IRRIGATION, SEE SPECS FOR WATERING REQUIREMENTS
 - NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 - NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTION FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 - SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.
 - NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY IS ALLOWED WITHIN FENCING LIMITS.
 - FENCING SHALL NOT BE MOVED UNLESS APPROVED BY OWNER.
 - WORK WITHIN FENCING SHALL BE DONE MANUALLY AND UNDER THE SUPERVISION OF THE ARBORIST/OWNER AND WITH OWNERS PRIOR APPROVAL.
 - NO PART OF ANY TREE PROTECTION SHALL BE MOVED, ALTERED, OR CHANGED IN ANY WAY FOR THE ENTIRE LENGTH OF THE CONSTRUCTION PROJECT.
 - IF ANY PART OF THE TREE PROTECTION MUST BE ACCESSED, CONTRACTOR MUST CALL XXXXX XXXX AT XXX-XXX-XXXX TO REQUEST PERMISSION TO ACCESS TREE PROTECTION AREA.

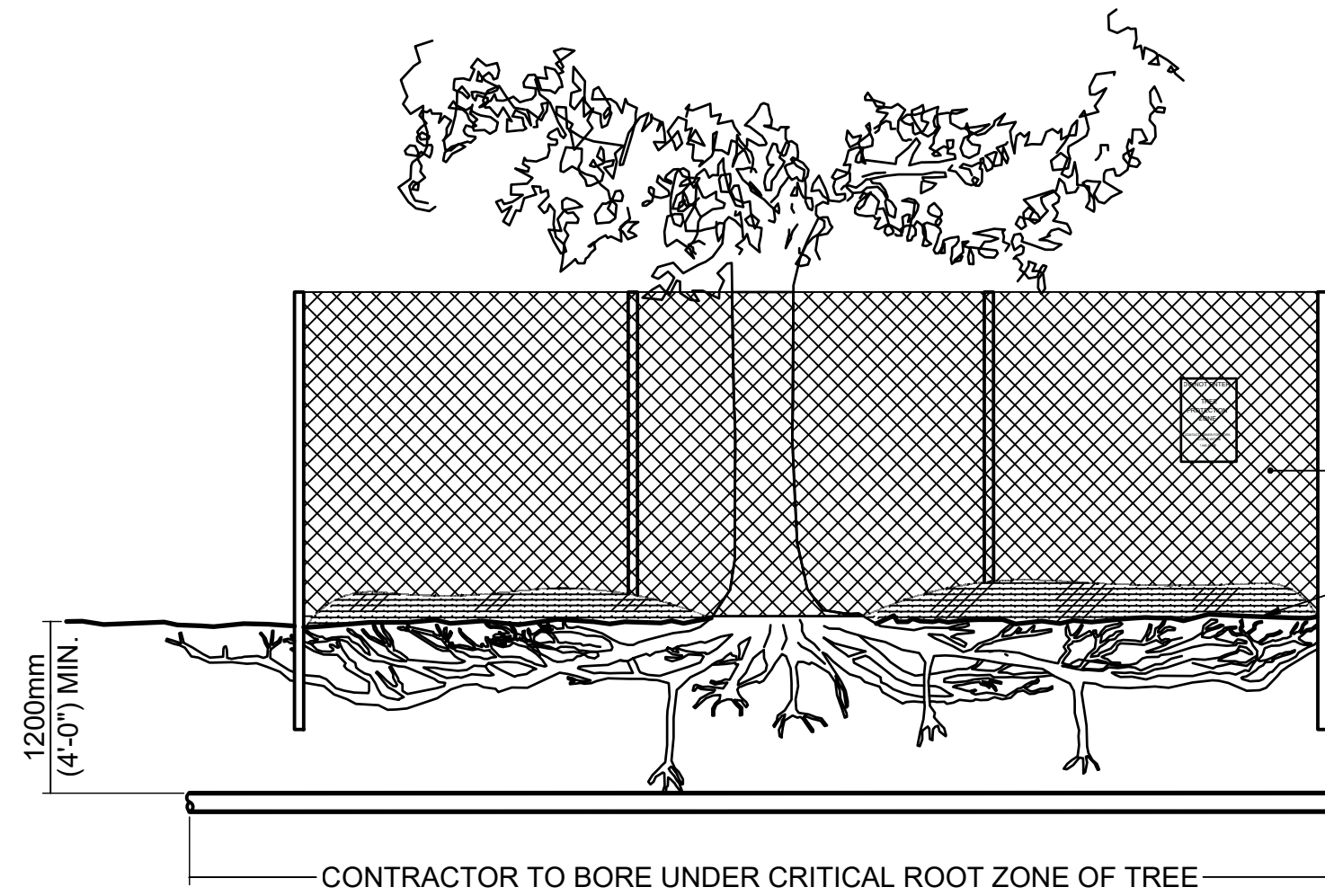
TREE PROTECTION FENCE

1
C-503DT

SCALE: NTS



AXON: NTS



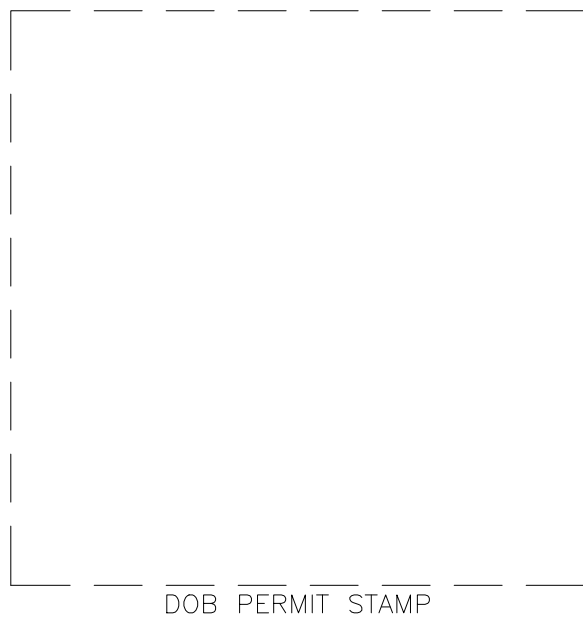
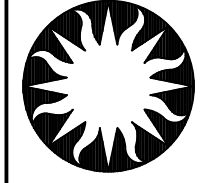
- NOTES:
- SEE SPEC FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 - BORING OF UTILITIES UNDER PROTECTED TREES SHALL BE REQUIRED IN CIRCUMSTANCES WHERE IT IS NOT POSSIBLE TO TRENCH AROUND THE CRITICAL ROOT ZONE OF PROTECTED TREES. THE LENGTH OF THE BORE SHALL BE THE WIDTH OF THE CRITICAL ROOT ZONE AT A MINIMUM. THE DEPTH SHALL BE AT LEAST 48".
 - NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 - SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

TREE PROTECTION - UTILITY BORING

2
C-503DT

SCALE: NTS

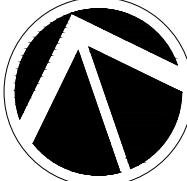
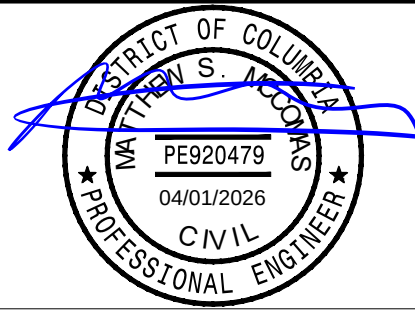
SE PROJECT #:	
DATE:	
DRAWN BY:	
SCALE:	
BUILDING NAME:	
PROJECT TITLE:	
Smithsonian Institution	
Smithsonian Facilities	
600 Maryland Avenue SW	
Suite 5001 Washington, DC 20560	



ALF

CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID

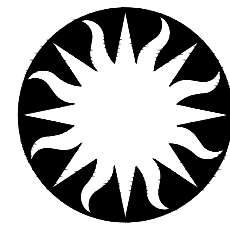


TRUE NORTH

KEY PLAN

GRAPHIC SCALE(S)

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

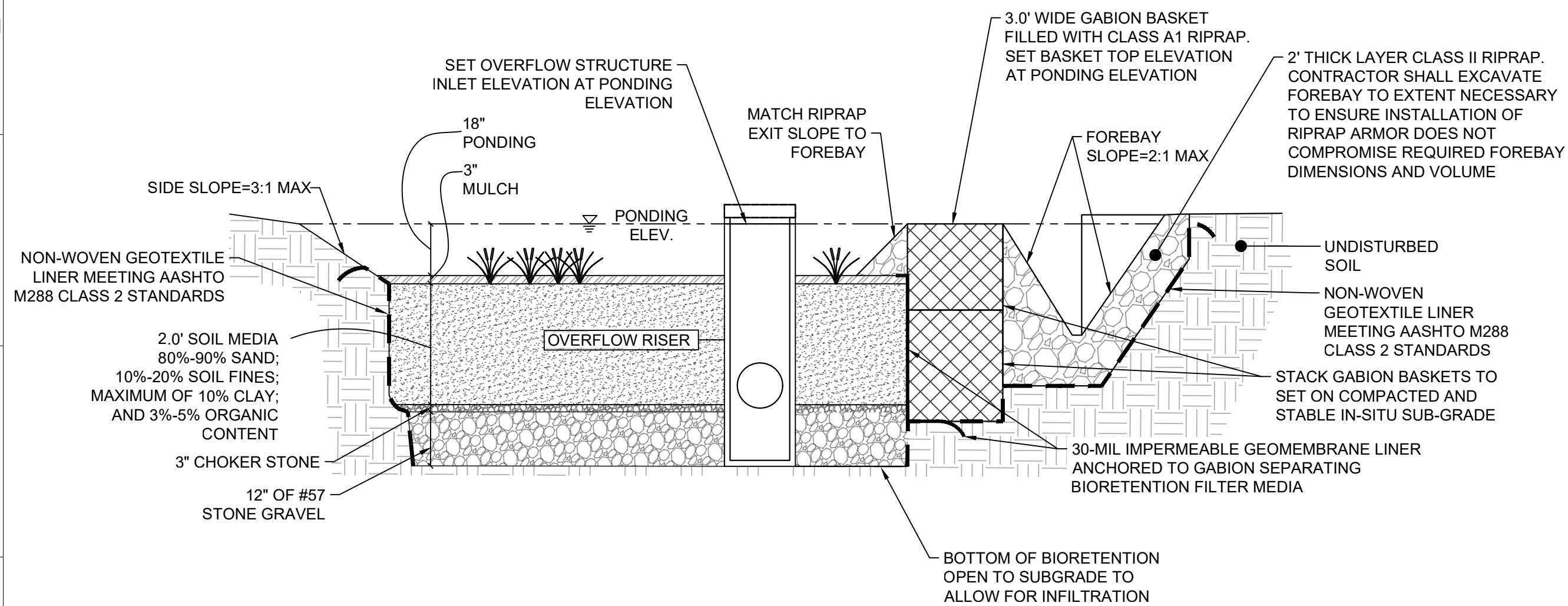


Smithsonian
Institution

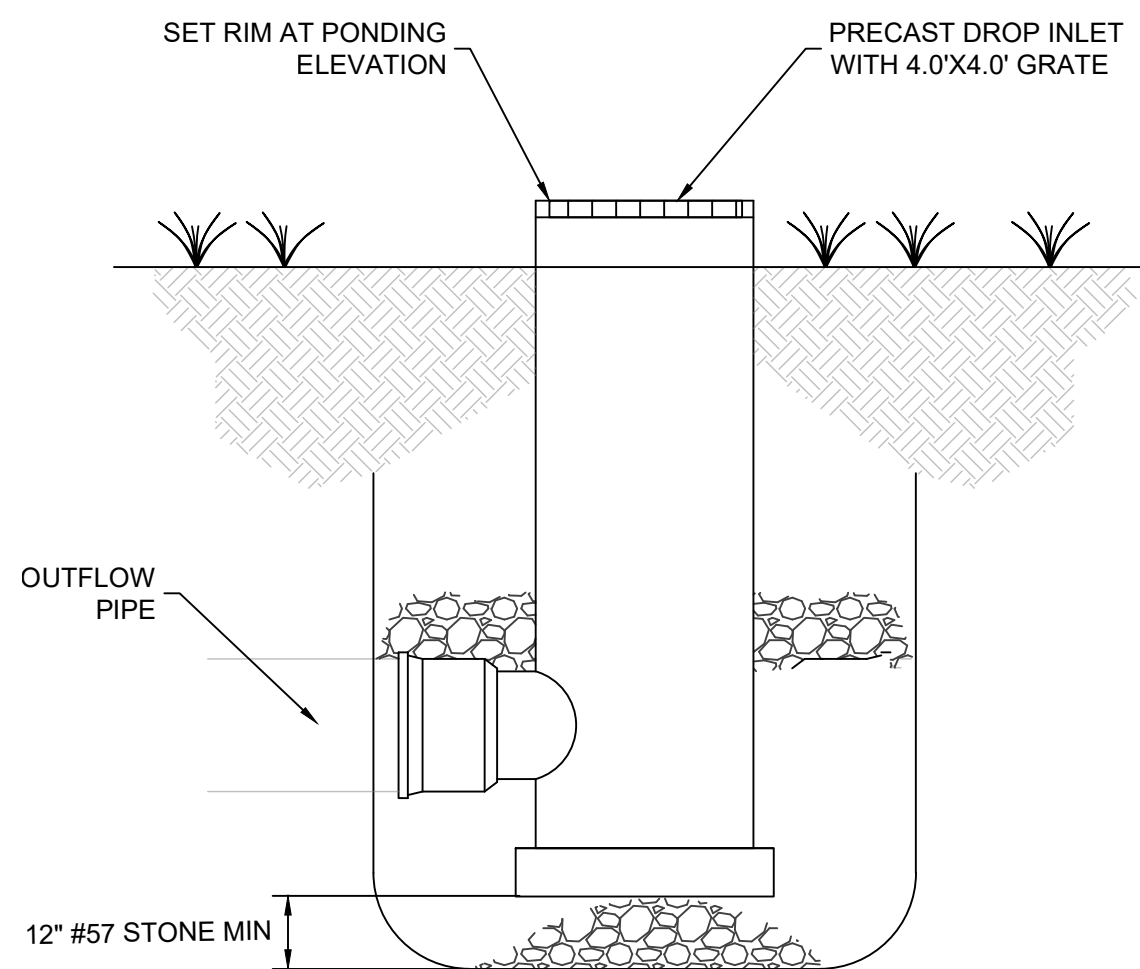
Smithsonian OPDC
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

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 DETAILS		
DRAWING STAFF	ST	KK	SM
	DESIGNED BY	DRAWN BY	CHECKED BY
SHEET NO.	C 5 03 DT		
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE		

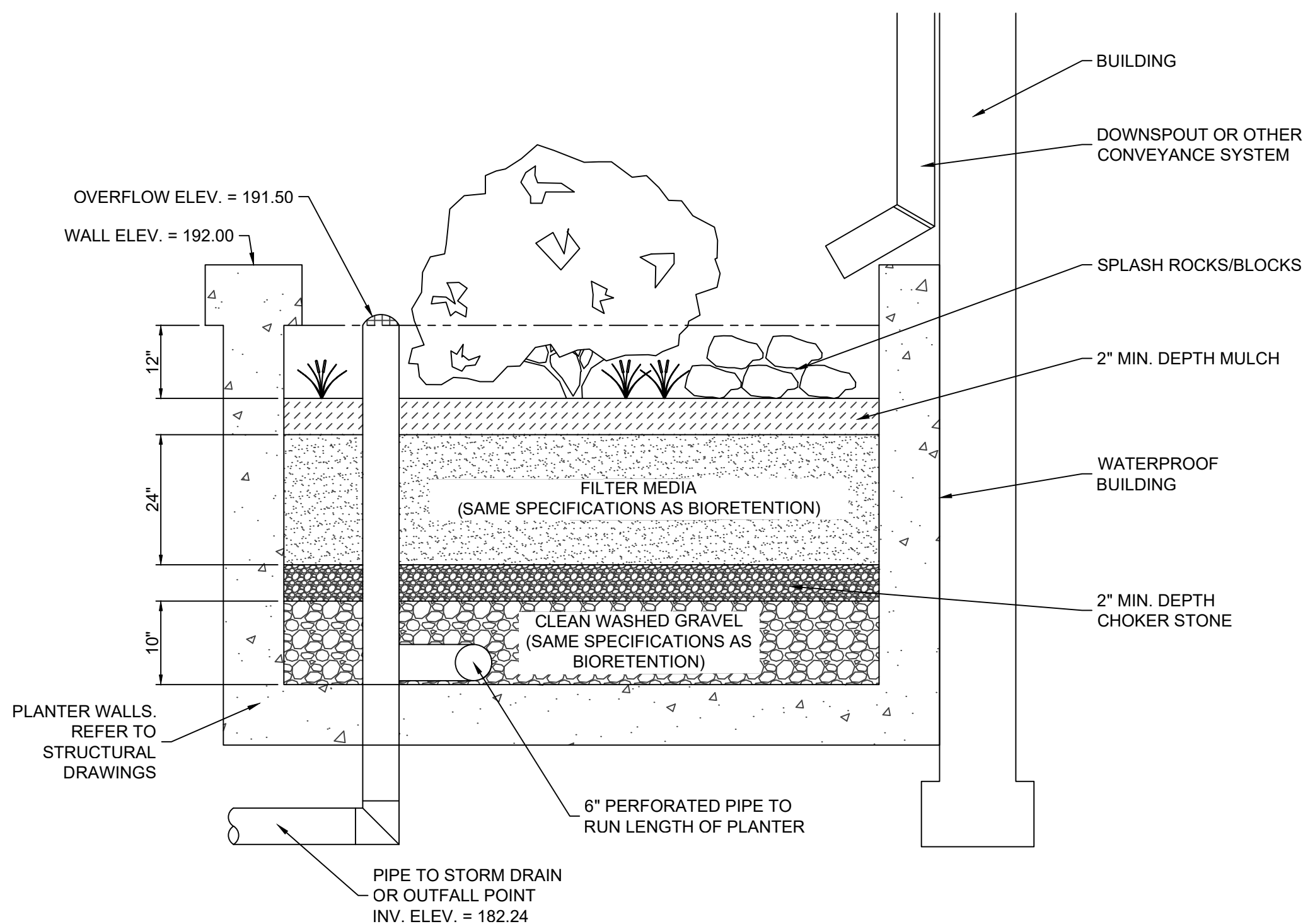
3/13/2026 11:18:18 AM
XX-XXXXX BY Approver 03/16/2026 35% DESIGN DEVELOPMENT



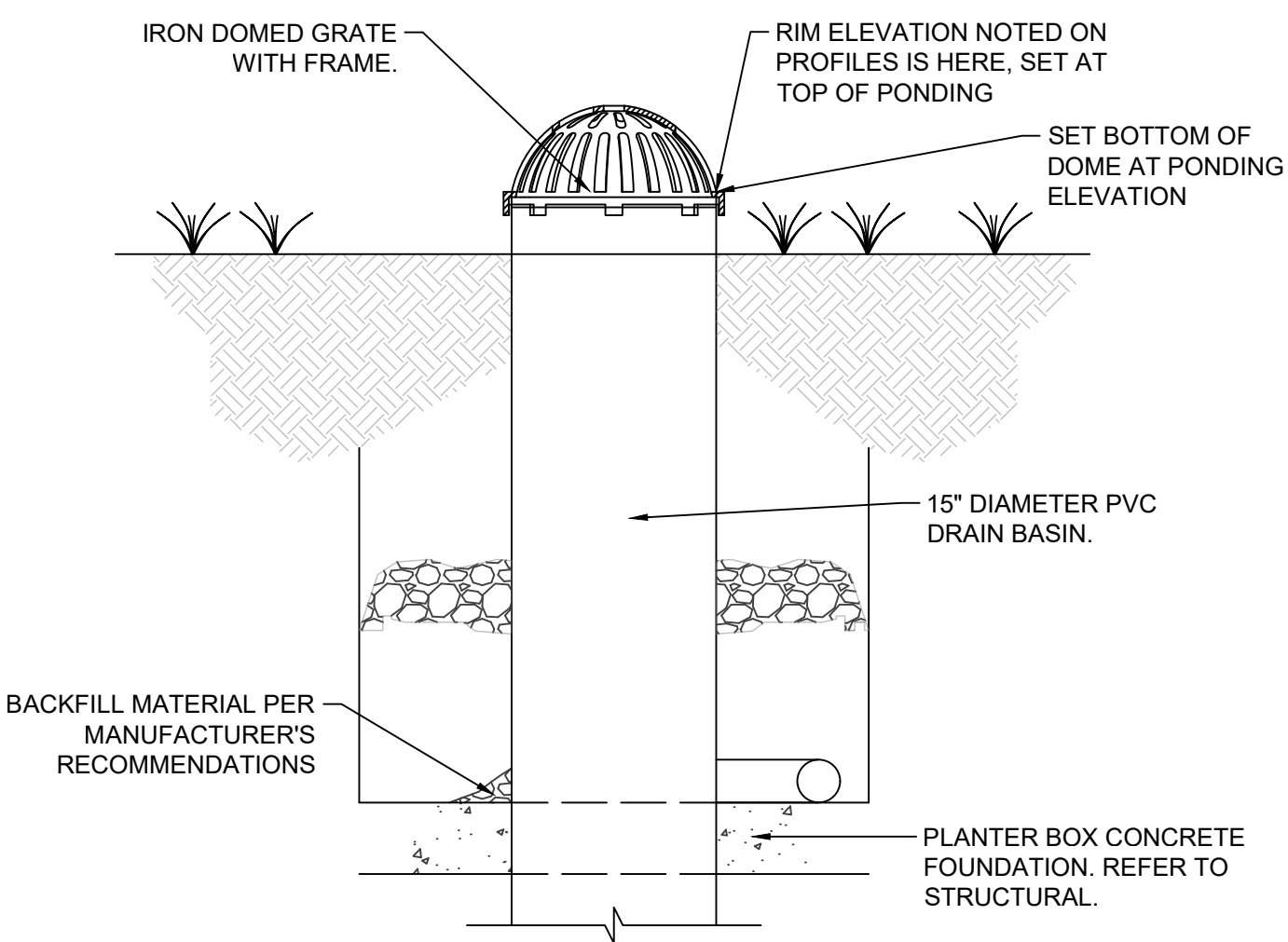
1 ENHANCED BIORETENTION SECTION
SCALE: NOT TO SCALE



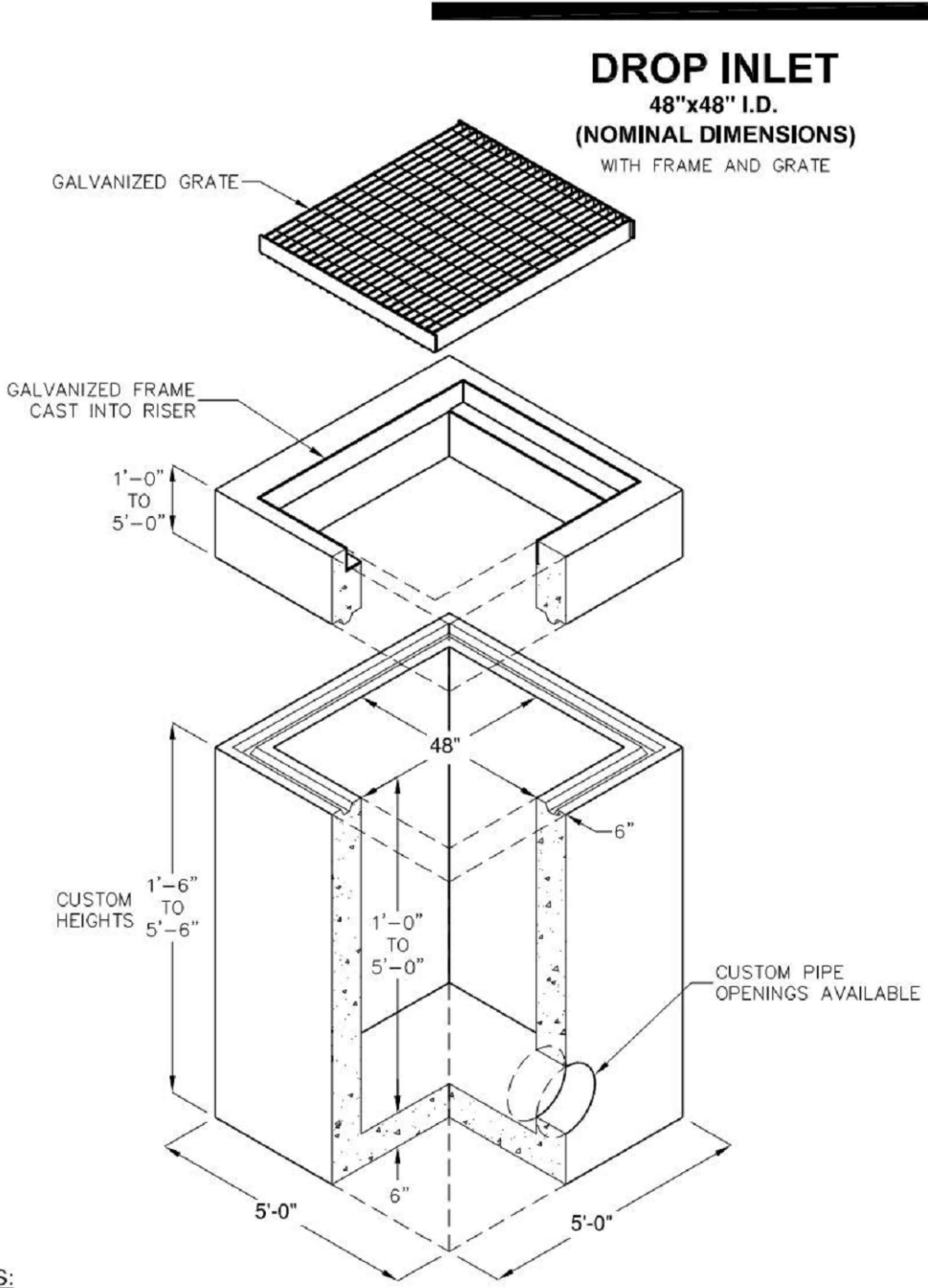
2 BIORETENTION OVERFLOW STRUCTURE
SCALE: NOT TO SCALE



3 STORMWATER PLANTER SECTION
SCALE: NOT TO SCALE



4 STORMWATER PLANTER OVERFLOW STRUCTURE
SCALE: NOT TO SCALE



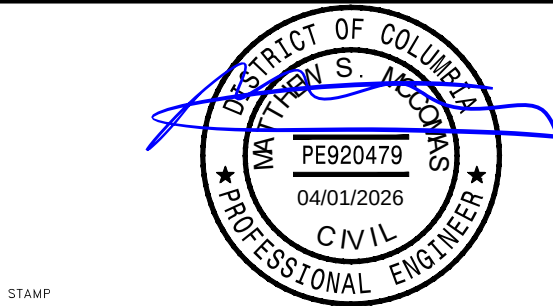
- NOTES:
1. PRECAST CONCRETE. MIN. 3500 PSI.
 2. GALVANIZED STEEL LADDER RINGS, SET AT 12" INTERVALS, TO BE PROVIDED FOR ACCESS.
 3. REFER TO PROPOSED PIPE CONNECTION INVERTS AND RIM ELEVATIONS PRIOR TO ORDERING.
 4. PROVIDE SHOP DRAWINGS CERTIFIED BY A DISTRICT OF COLUMBIA REGISTERED STRUCTURAL ENGINEER TO THE DESIGNER FOR APPROVAL PRIOR TO ORDERING.

5 TYPICAL 4.0' x 4.0' DROP INLET
SCALE: NOT TO SCALE

ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID



KEY PLAN

GRAPHIC SCALE(S)

DATE 04/02/2026	DESCRIPTION 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
PROJECT NUMBER A/E PROJECT NUMBER 00100084	DRAWING TITLE STORMWATER MANAGEMENT PLAN - DETAILS AND NOTES
DESIGNED BY ST	DRAWN BY KK
CHECKED BY SM	DATE C 5 07 DT

DOEE'S CONSTRUCTION INSPECTION CHECKLISTS FOR EACH BMP ARE PROVIDED IN APPENDIX K OF THE DOEE STORMWATER MANAGEMENT GUIDEBOOK.

THESE MEETINGS ARE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY LAND-DISTURBING ACTIVITIES AND PRIOR TO THE CONSTRUCTION OF ANY ON-SITE OR OFF-SITE BMPS.

INSPECTIONS DURING CONSTRUCTION

DOEE MAY REQUIRE THE PROFESSIONAL ENGINEER RESPONSIBLE FOR SEALING THE APPROVED SWM PLANS, OR THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CERTIFYING THE "AS-BUILT" SWM PLAN, OR FOR A PROJECT ENTIRELY IN THE PROW, THE OFFICER OF THE CONTRACTING COMPANY RESPONSIBLE FOR CERTIFYING THE RECORD DRAWING BE PRESENT DURING INSPECTIONS.

THE APPLICANT IS REQUIRED TO CONTACT DOEE TO SCHEDULE A FINAL INSPECTION 1 WEEK PRIOR TO THE COMPLETION OF A BMP CONSTRUCTION TO SCHEDULE A FINAL INSPECTION OF THE BMP.

INSPECTION REQUIREMENTS FOR BIORETENTION

- a. DURING ON-SITE/OFF-SITE PERCOLATION/INFILTRATION TEST
- b. UPON COMPLETION OF STRIPPING, STOCKPILING, CONSTRUCTION OF TEMPORARY SEDIMENT CONTROL AND DRAINAGE FACILITIES
- c. UPON COMPLETION OF EXCAVATION TO SUBGRADE
- d. THROUGHOUT THE PLACEMENT OF PERFORATED PVC/HDPE PIPES (FOR UNDERDRAINS AND OBSERVATION WELLS) INCLUDING BYPASS PIPES (WHERE APPLICABLE), GEOTEXTILE MATERIALS, GRAVEL, OR CRUSHED STONE COURSE AND BACKFILL
- e. UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION
- f. THROUGHOUT THE PLACEMENT OF PERFORATED PVC/HDPE PIPES (FOR UNDERDRAINS AND OBSERVATION WELLS) INCLUDING BYPASS PIPES (WHERE APPLICABLE), GEOTEXTILE MATERIALS, GRAVEL, OR CRUSHED STONE COURSE AND BACKFILL
- g. UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION

DOEE WILL CONDUCT A FINAL INSPECTION TO DETERMINE IF THE COMPLETED WORK IS CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS AND THE INTENT OF 21 DCRM, CHAPTER 5. A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE DISTRICT IS REQUIRED TO CERTIFY "AS-BUILT" PLANS AND RECORDS. THE AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER WORK SHALL BE IN ACCORDANCE WITH SPECIFICATIONS. THE AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER FORM IS PROVIDED ON THE ORIGINAL SWM PLAN. UPON COMPLETION, THESE PLANS WILL BE SUBMITTED TO DOEE FOR PROCESSING. THE ESTIMATED TIME FOR PROCESSING WILL BE TWO WEEKS (TEN WORKING DAYS), AFTER WHICH THE PLANS WILL BE RETURNED TO THE ENGINEER. DOEE WILL PROVIDE THE APPLICANT WITH WRITTEN NOTIFICATION OF THE FINAL INSPECTION RESULTS. DOEE WILL MAINTAIN A PERMANENT FILE OF INSPECTION REPORTS.

PREVENTATIVE MAINTENANCE WILL BE ENSURED THROUGH INSPECTION OF ALL BMPs BY DOE. THE INSPECTION WILL OCCUR AT LEAST ONCE EVERY THREE YEARS. MAINTENANCE INSPECTION FORMS ARE PROVIDED IN APPENDIX L OF THE DOE STORMWATER MANAGEMENT GUIDEBOOK.

IF, AFTER AN INSPECTION BY DOEE, THE CONDITION OF A BMP PRESENTS AN IMMEDIATE DANGER TO THE PUBLIC SAFETY OF HEALTH BECAUSE OF AN UNSAFE CONDITION OR IMPROPER MAINTENANCE, THE DOE WILL TAKE SUCH ACTION AS MAY BE NECESSARY TO PROTECT THE PUBLIC AND MAKE THE BMP SAFE. ANY COSTS INCURRED BY DOEE WILL BE ASSESSED AGAINST THE OWNER(S).

Soil Media Criterion	Description	Standard(s)																								
General Composition	Soil media must have the proper proportions of sand, fines, and organic matter to promote plant growth, drain at the proper rate, and filter pollutants	80% to 90% sand (75% of which is coarse or very coarse); 10% to 20% soil fines; maximum of 10% clay; and 3% to 5% organic matter																								
Sand	Silica based coarse aggregate ¹	<table border="1"> <thead> <tr> <th>Sieve Type</th><th>Particle Size (mm)</th><th>Percent Passing (%)</th></tr> </thead> <tbody> <tr> <td>3/8 in.</td><td>9.50</td><td>100</td></tr> <tr> <td>No. 4</td><td>4.75</td><td>95-100</td></tr> <tr> <td>No. 8</td><td>2.36</td><td>80-100</td></tr> <tr> <td>No. 16</td><td>1.18</td><td>45-85</td></tr> <tr> <td>No. 30</td><td>0.6</td><td>15-60</td></tr> <tr> <td>No. 50</td><td>0.3</td><td>3-15</td></tr> <tr> <td>No. 100</td><td>0.15</td><td>0-4</td></tr> </tbody> </table> Effective Particle size (D10) > 0.3mm Uniformity Coefficient (D60/D10) < 4.0	Sieve Type	Particle Size (mm)	Percent Passing (%)	3/8 in.	9.50	100	No. 4	4.75	95-100	No. 8	2.36	80-100	No. 16	1.18	45-85	No. 30	0.6	15-60	No. 50	0.3	3-15	No. 100	0.15	0-4
Sieve Type	Particle Size (mm)	Percent Passing (%)																								
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No. 30	0.6	15-60																								
No. 50	0.3	3-15																								
No. 100	0.15	0-4																								
Top Soil	Loamy sand or sandy loam	USDA Textural Triangle																								
Organic Matter	Well-aged, clean compost	Appendix J																								
P-Index or Phosphorus (P) Content	Soil media with high P levels will export P through the media and potentially to downstream conveyances or receiving waters	P content = 5 to 15 mg/kg (Mehlich I) or 18 to 40 mg/kg (Mehlich III)																								
Cation Exchange Capacity (CEC)	The CEC is determined by the amount of soil fines and organic matter. Higher CEC will promote pollutant removal	CEC > 5 milliequivalents per 100 grams																								

THE FOLLOWING IS A TYPICAL CONSTRUCTION SEQUENCE TO PROPERLY INSTALL A BIORETENTION BASIN. THE CONSTRUCTION SEQUENCE FOR MICRO-BIORETENTION IS MORE SIMPLIFIED. THESE STEPS MAY BE MODIFIED TO REFLECT DIFFERENT BIORETENTION APPLICATIONS OR EXPECTED SITE CONDITIONS:

STEP 2: A PRECONSTRUCTION MEETING. THE DESIGNER, THE INSTALLER, AND DOE INSPECTOR MUST HAVE A PRECONSTRUCTION MEETING, CHECKING THE BOUNDARIES OF THE CONTRIBUTING DRAINAGE AREA AND THE ACTUAL INLET ELEVATIONS TO ENSURE THEY CORRESPOND TO ORIGINAL DESIGN. SINCE THE DESIGNER'S DRAINAGE AREA MAPS ARE OFTEN INACCURATE, THE INSPECTOR WILL BE ABLE TO FIND COMMON TO FIND SUBTLE DIFFERENCES IN SITE GRADING, DRAINAGE AND PAVING ELEVATIONS THAT CAN PRODUCE HYDRAULICALLY IMPORTANT DIFFERENCES FOR THE PROPOSED BIOTRETION AREA. THE DESIGNER SHOULD CLEARLY COMMUNICATE, IN WRITING, ANY PROJECT CHANGES DETERMINED DURING THE PRECONSTRUCTION MEETING. THE INSTALLER MUST PROVIDE THE INSPECTOR WITH CERTIFICATIONS FOR AGGREGATE, SOIL MEDIA AND A GEOTECHNICAL MUST BE SUBMITTED FOR APPROVAL TO THE INSPECTOR AT THE PRECONSTRUCTION MEETING.

STEP 4: INSTALL PRETREATMENT CELLS. ANY PRETREATMENT CELLS SHOULD BE EXCAVATED FIRST AND THEN SEALED TO TRAP SEDIMENT.

STEP 6: PROMOTE INFILTRATION RATE. IT MAY BE NECESSARY TO RIP THE BOTTOM SOILS TO A DEPTH OF 6 TO 12 INCHES TO PROMOTE GREATER INFILTRATION.

STEP 8: LAYERED INSTALLATION OF MEDIA. APPLY THE MEDIA IN 12-INCH LIFTS UNTIL THE DESIRED TOP ELEVATION OF THE BIORETENTION AREA IS ACHIEVED. WAIT A FEW DAYS TO CHECK FOR SETTLEMENT AND ADD ADDITIONAL MEDIA, AS NEEDED, TO ACHIEVE THE DESIGN ELEVATION.

STEP 9: PREPARE FILTER MEDIA FOR PLANTS. PREPARE PLANTING HOLES FOR ANY TREES AND SHRUBS. INSTALL THE VEGETATION, AND WATER ACCORDINGLY. INSTALL ANY TEMPORARY IRRIGATION.

STEP 11: SECURE SURFACE AREA. PLACE THE SURFACE COVER (I.E., MULCH, RIVER STONE, OR TURF) IN BOTH CELLS, DEPENDING ON THE DESIGN. IF COIR OR JUTE MATTING WILL BE USED IN LIEU OF MULCH, THE MATTING WILL NEED TO BE INSTALLED PRIOR TO PLANTING (STEP 10), AND HOLES OR SLITS WILL HAVE TO BE CUT IN THE MATTING TO INSTALL THE PLANTS.

STEP 12: INFLOWS. IF CURB CUTS OR INLETS ARE BLOCKED DURING BIORETENTION INSTALLATION, UNBLOCK THESE AFTER THE DRAINAGE AREA AND SIDE SLOPES HAVE GOOD VEGETATIVE COVER. IT IS RECOMMENDED THAT UNBLOCKING CURB CUTS AND INLETS TAKE PLACE AFTER TWO TO THREE STORM EVENTS IF THE DRAINAGE AREA INCLUDES NEWLY INSTALLED ASPHALT, SINCE NEW ASPHALT TENDS TO PRODUCE A LOT OF FINES AND GRIT DURING THE FIRST SEVERAL STORMS.

STEP 13: FINAL INSPECTION. CONDUCT THE FINAL CONSTRUCTION INSPECTION USING A QUALIFIED PROFESSIONAL, PROVIDING DOE WITH AN AS-BUILT, THEN LOG THE GPS COORDINATES FOR EACH BIORETENTION FACILITY, AND SUBMIT THEM FOR ENTRY INTO THE MAINTENANCE TRACKING DATABASE.

Frequency	Maintenance Tasks
Upon establishment	- For the first 6 months following construction, the practice and CDA should be inspected at least twice after storm events that exceed 1/2 inch of rainfall. Conduct any needed repairs or stabilization. - Inspectors should look for bare or eroding areas in the contributing drainage area or around the bioretention area, and make sure they are immediately stabilized with grass cover. - One-time, spot fertilization may be needed for initial plantings. - Watering is needed once a week during the first 2 months, and then as needed during first growing season (April-October), depending on rainfall. - Remove and replace dead plants. Up to 10% of the plant stock may die off in the first year, so construction contracts should include a care and replacement warranty to ensure that vegetation is properly established and survives during the first growing season following construction.
At least 4 times per year	- Mow grass filter strips and bioretention with turf cover - Check curb cuts and inlets for accumulated grit, leaves, and debris that may block inflow
Twice during growing season	Spot weed, remove trash, and rake the mulch
Annually	- Conduct a maintenance inspection - Supplement mulch in devoid areas to maintain a 3 inch layer - Prune trees and shrubs - Remove sediment in pretreatment cells and inflow points
Once every 2–3 years	- Remove sediment in pretreatment cells and inflow points - Remove and replace the mulch layer
As needed	- Add reinforcement planting to maintain desired vegetation density - Remove invasive plants using recommended control methods - Remove any dead or diseased plants - Stabilize the contributing drainage area to prevent erosion

STORMWATER RETENTION AND DETENTION FOR THE PRIVATE SPACE ON SITE HAS A DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT (DOEE) SWRv REQUIREMENT OF #### CF FOR MAJOR LAND DISTURBING THE TOTAL LAND BEING DISTURBED IN THE PRIVATE SPACE IS #### SF. THE WAIVER IS REQUESTED UNDER THE TRAILS PRACTICABLE PROCESS FOR 13,369 SF. THE SWRv WILL BE MET WITH TREE PRESERVATION FOR TREES, A STORMWATER PLANTER, AND A BIORETENTION

WITHIN 21 DAYS AFTER COMPLETION OF CONSTRUCTION OF THE ALL STORMWATER BEST MANAGEMENT PRACTICES (BMPs), STORMWATER INFRASTRUCTURE, AND LAND COVERS (COLLECTIVELY THE "FACILITY"), PLEASE SEND THIS PAGE TO THE WATERSHED PROTECTION DIVISION OF THE DISTRICT DEPARTMENT OF THE ENVIRONMENT.

SOURCE NAME: _____

SOURCE LOCATION: STREET: _____

CITY: _____

DCRA PERMIT NO.: _____

DATE ISSUED: _____

I HEREBY CERTIFY THAT ALL STORMWATER BEST MANAGEMENT PRACTICES (BMPs) STORMWATER INFRASTRUCTURE, AND LAND COVERS HAVE BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THAT ANY DEVIATIONS NOTED BELOW WILL NOT PREVENT THE SYSTEM FROM FUNCTIONING IN COMPLIANCE WITH THE REQUIREMENTS CHAPTER 5 OF TITLE 21 OF THE DISTRICT OF COLUMBIA MUNICIPAL REGULATIONS WHEN PROPERLY MAINTAINED. THE DATA AND DETERMINATIONS HAVE BEEN BASED UPON ON-CHANGING OBSERVATIONS OF CONSTRUCTION, SCHEDULED AND CONDUCTED BY ME OR BY A PROJECT REPRESENTATIVE UNDER MY DIRECT SUPERVISION. I HAVE ENCLOSED ONE SET OF AS-BUILT ENGINEERING DRAWINGS.

SIGNATURE OF ENGINEER _____	NAME (PLEASE TYPE) D.C. REG. NO. _____
AFFIX SEAL: 	COMPANY NAME: _____ COMPANY ADDRESS: _____ DATE: _____ TELEPHONE: _____

SUBSTANTIAL DEVIATIONS FROM THE APPROVED PLANS AND SPECIFICATIONS (ATTACH ADDITIONAL SHEETS IF REQUIRED).

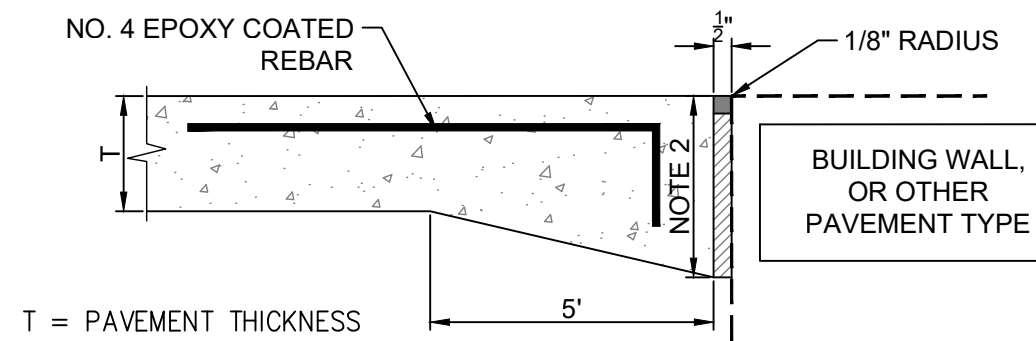
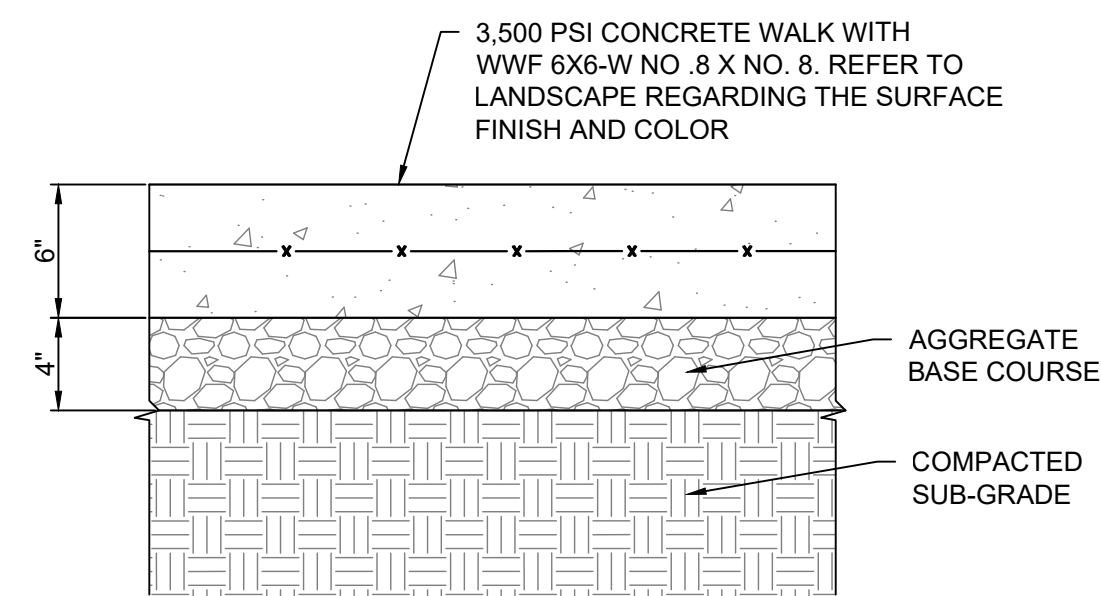
THE UNDERSIGNED AGREES TO MAINTAIN COMPLIANCE WITH THE PERFORMANCE REQUIREMENTS AND OTHER PROVISIONS OF CHAPTER 5 OF TITLE 21 OF THE DISTRICT OF COLUMBIA MUNICIPAL REGULATIONS (DCMR). THIS INCLUDES MAINTAINING AND OPERATING STORMWATER BEST MANAGEMENT PRACTICES (BMPs), STORMWATER INFRASTRUCTURE, AND LAND COVERS AS SPECIFIED IN THE STORMWATER MANAGEMENT PLAN APPROVED BY THE DISTRICT DEPARTMENT OF ENERGY AND ENVIRONMENT (DOEE).

RESPONSIBILITY FOR MAINTENANCE AND OPERATION MAY BE TRANSFERRED TO ANOTHER ENTITY UPON WRITTEN NOTICE TO THE NATURAL RESOURCES ADMINISTRATION OF DOE FROM THE UNDERSIGNED AND THE ENTITY ASSUMING RESPONSIBILITY. THIS NOTICE MUST CERTIFY THAT THE TRANSFER OF RESPONSIBILITY FOR MAINTENANCE AND OPERATION IS IN COMPLIANCE WITH 21 DCMR CHAPTER 5.

THIS IS TO CERTIFY THAT THE ENGINEERING FEATURES OF ALL STORMWATER BEST MANAGEMENT PRACTICES (BMPs), STORMWATER INFRASTRUCTURE, AND LAND COVERS (COLLECTIVELY THE "FACILITY"), HAVE BEEN DESIGNED/EXAMINED BY ME AND FOUND TO BE IN CONFORMITY WITH MODERN ENGINEERING PRINCIPLES APPLICABLE TO THE TREATMENT AND DESIGN OF STORMWATER POLLUTANTS. I FURTHER CERTIFY THAT THE FACILITY HAS BEEN DESIGNED TO MEET THE SPECIFIC REQUIREMENTS REQUIRED UNDER CHAPTER 5 OF TITLE 10 OF THE DISTRICT OF COLUMBIA MUNICIPAL REGULATIONS. IT ALSO STATED THAT THE UNDERSIGNED HAS FURNISHED THE APPLICANT WITH A SET OF INSTRUCTIONS FOR MAINTENANCE AND OPERATION OF THE SITE'S FACILITY. _____

AFFIX SEAL:	NAME AND TITLE (PLEASE TYPE):
	22365 Broderick Drive, Suite 265
	ADDRESS:
	Dulles, VA 20166
	DATE: PHONE NO.:

[illegible]



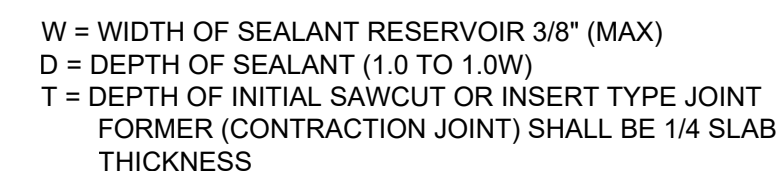
NOTES:

1. PROVIDE AT FACE OF BUILDING, WALLS, UTILITY STRUCTURES, AND AT OTHER STRUCTURES WHERE PROPOSED CONCRETE MEETS EXISTING.
2. THE PAVEMENT EDGES AT THE JOINT SHOULD BE THICKENED BY 20% (1.2") OR 2 IN (T+2"), WHICHEVER IS GREATER.
3. ALL CONCRETE REINFORCEMENT BAR SHALL BE EPOXY COATED IN ACCORDANCE WITH DDOT STANDARDS AND SPECIFICATIONS.

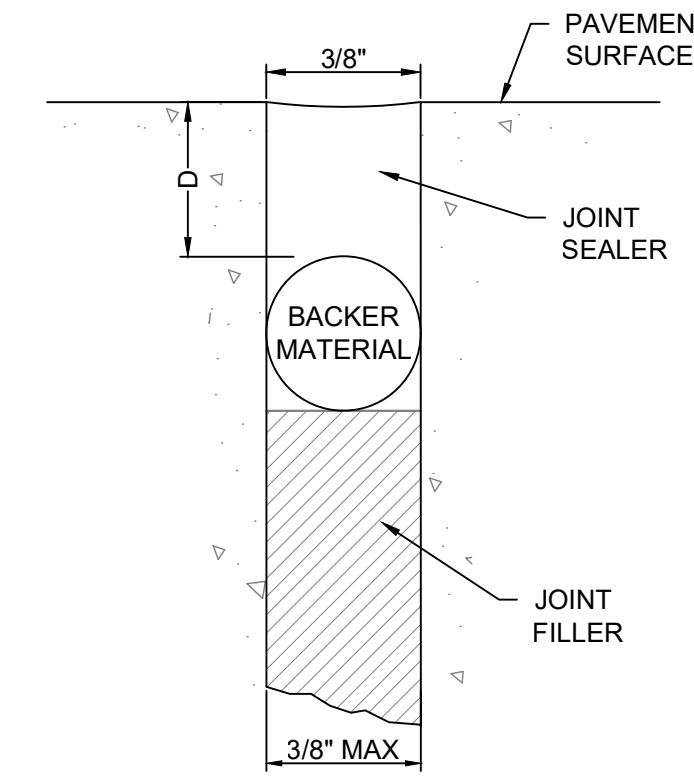
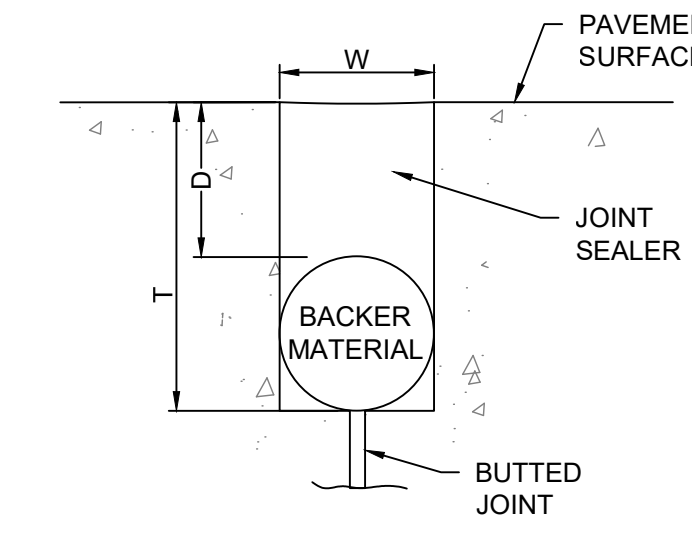
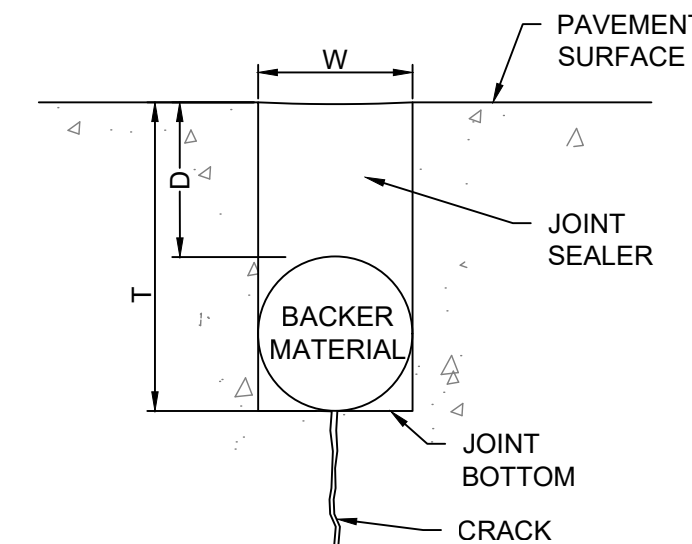
DOB PERMIT STAMP

1 PEDESTRIAN CONCRETE PAVEMENT

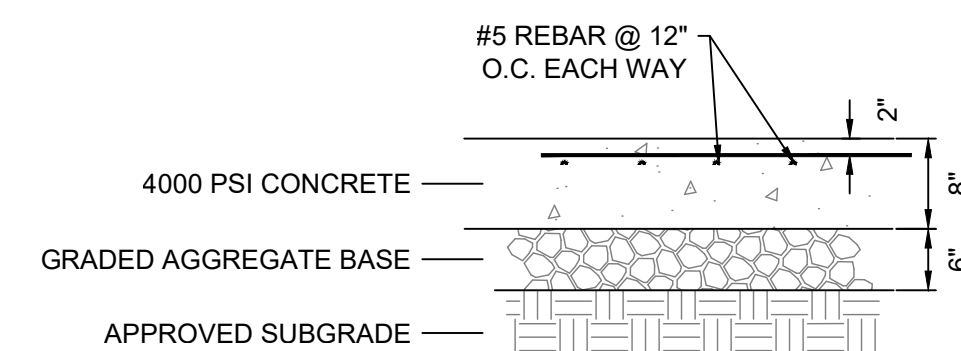
2 THICKENED EDGE ISOLATION JOINT TYPICAL DETAIL
C-510DT SCALE: NOT TO SCALE



- NOTES :
1. BACKER MATERIAL SHALL MEET THE REQUIREMENTS OF ACI 504R PARAGRAPH 2.8, 3.4.6.2, 3.4.6.3 AND TABLE AS APPLICABLE.
 2. TOP OF SEALANT WILL BE A MAXIMUM OF 1/4" BELOW TOP OF PAVEMENT SURFACE.
 3. WHERE NEW SIDEWALK MEETS EXISTING, REBAR DOWELS SHOULD BE DRILLED IN TO TIE SLABS TOGETHER.
 4. CONSTRUCTION AND CONTRACTION JOINTS ARE TO BE SCORED / TOOLED.

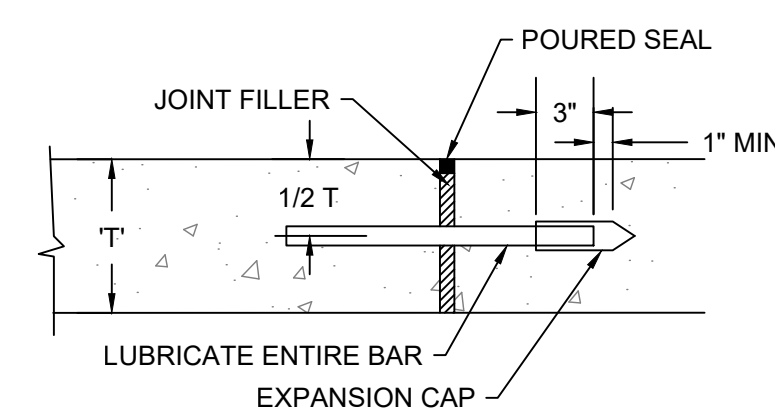


3 CONCRETE JOINT DETAILS
C-510DT SCALE: NOT TO SCALE



- NOTES:**
1. CONCRETE PAVEMENT TO BE CONSTRUCTED IN ACCORDANCE WITH DDOT STANDARDS AND SPECIFICATIONS.
 2. PROVIDE EXPANSION JOINTS WITH LOAD TRANSFER DOWEL WHERE NEW CONCRETE PAVEMENT ABUTS EXISTING CONCRETE PAVEMENT.
 3. PROVIDE ISOLATION JOINT WHERE NEW CONCRETE PAVEMENT ABUTS WALL AND EXISTING DIFFERING MATERIAL PAVEMENT.

PAVEMENT SECTION VIEW

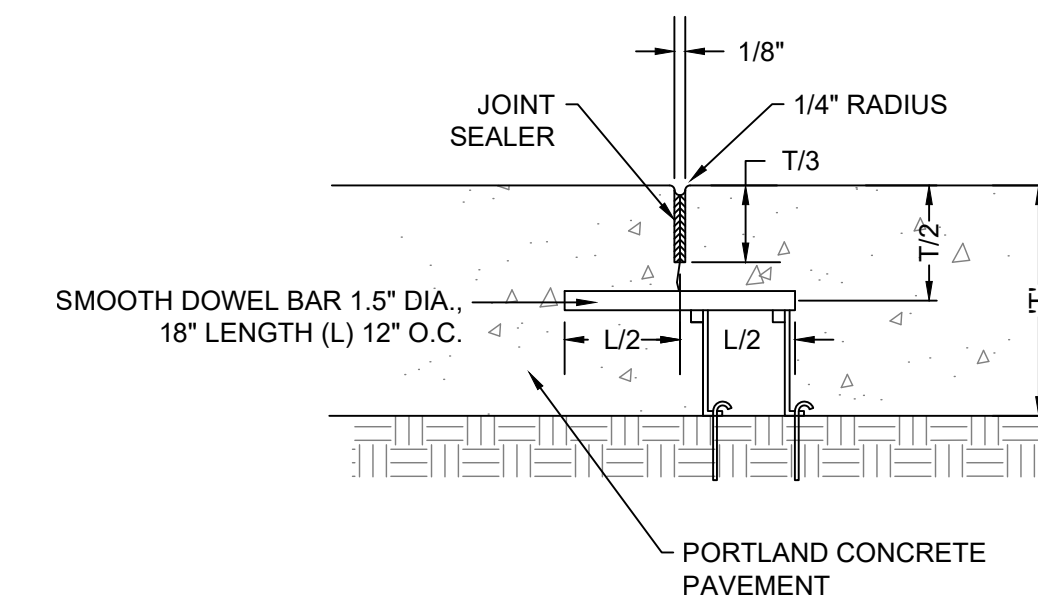


THICKNESS OF SLAB (T)	DOWELS		
	DIAMETER	LENGTH (L)	SPACING
8"	1.5"	18"	12"

- NOTES:**
1. ALL FORMED JOINTS SHALL BE FINISHED WITH 1/8" RADIUS.
 2. SIZE AND SPACING OF DOWELS IN TRANSITION SECTION SHALL BE GOVERNED BY THICKEST EDGE.
 3. DOWEL BARS AND JOINT FILLER SHALL BE IN ACCORDANCE WITH DDOT SPECIFICATION 605.01.

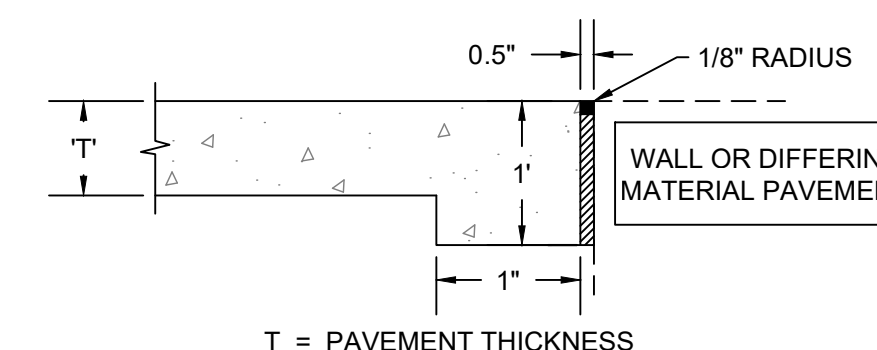
DOWELED TRANSVERSE EXPANSION JOINT

END VIEW



- NOTE:
1. DOWEL BARS AND JOINT SEALER SHALL BE IN ACCORDANCE WITH DDOT SPECIFICATION 605.01.

CONTRACTION JOINT WITH LOAD TRANSFER

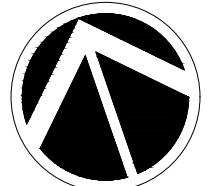
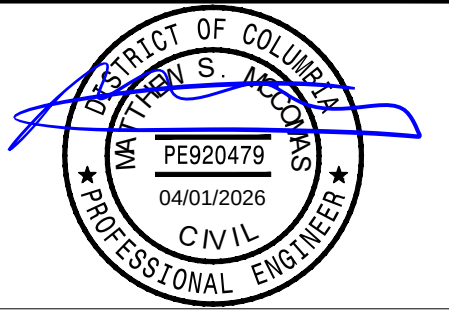


ISOLATION JOINT



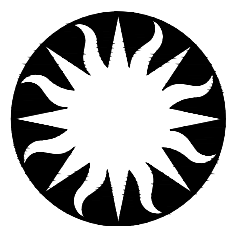
CONSTRUCT ARABIAN LEOPARD FACILITY

ISSUED FOR BID



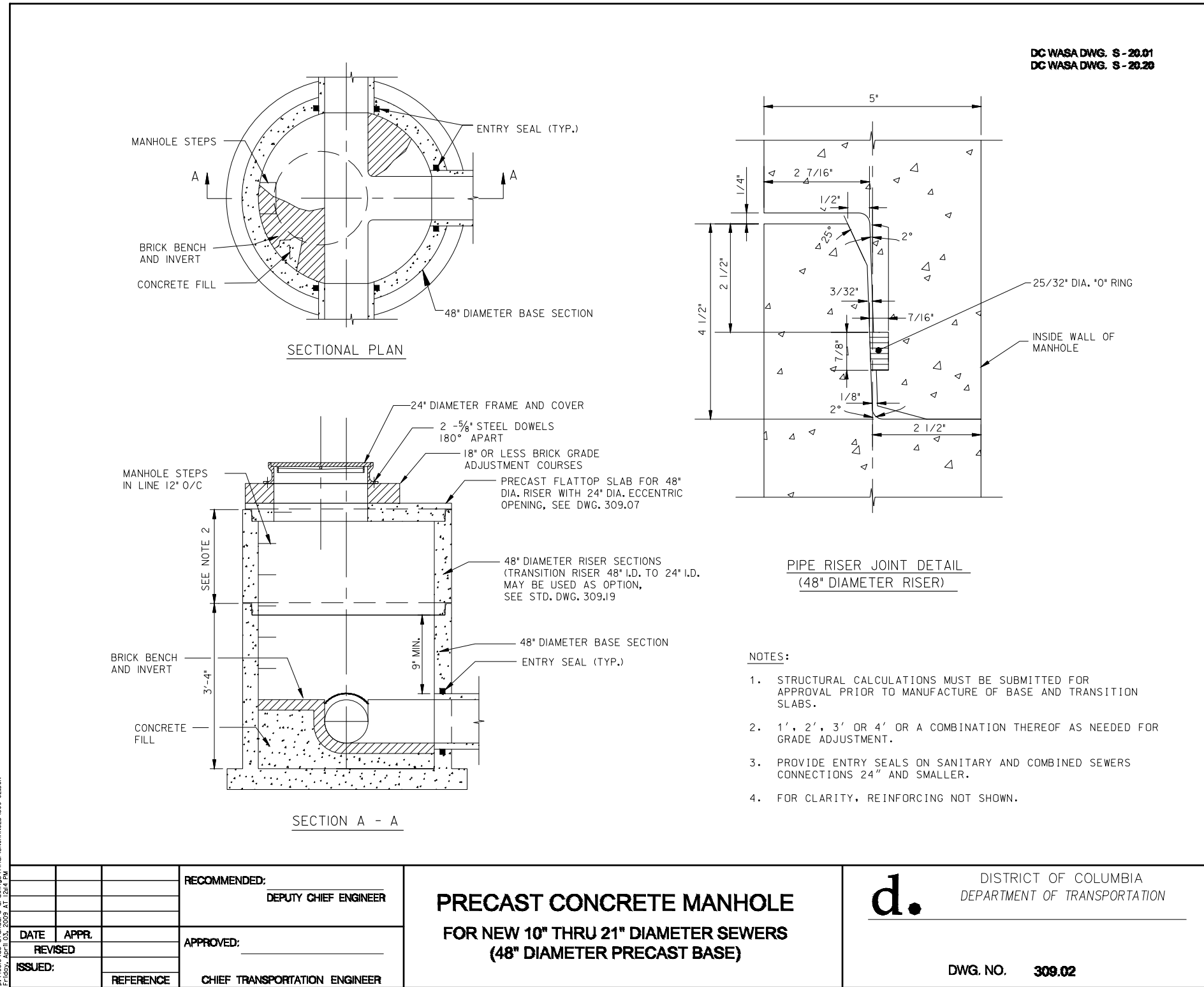
KEY PLAN

GRAPHIC SCALE(S)

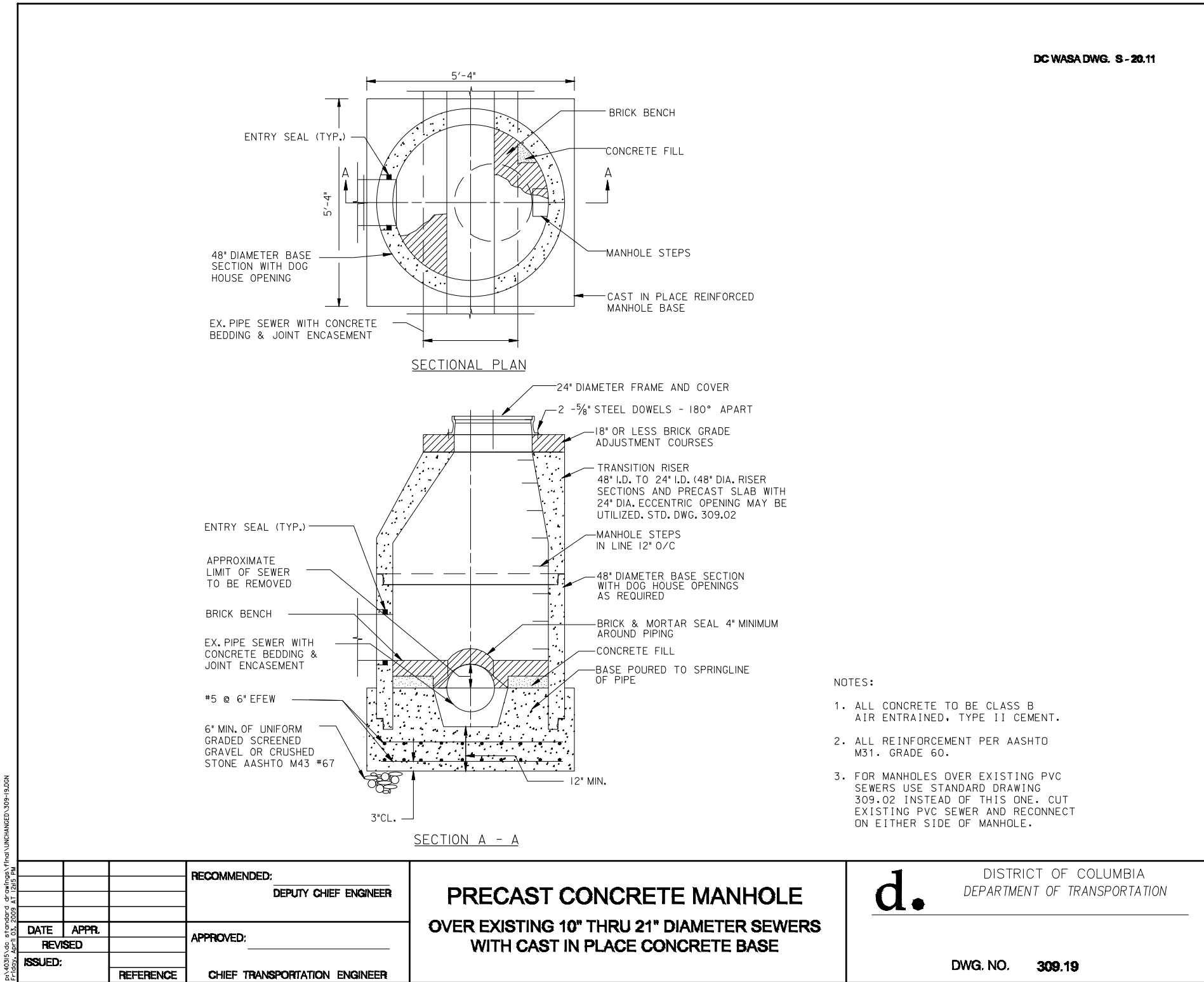
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Institution

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

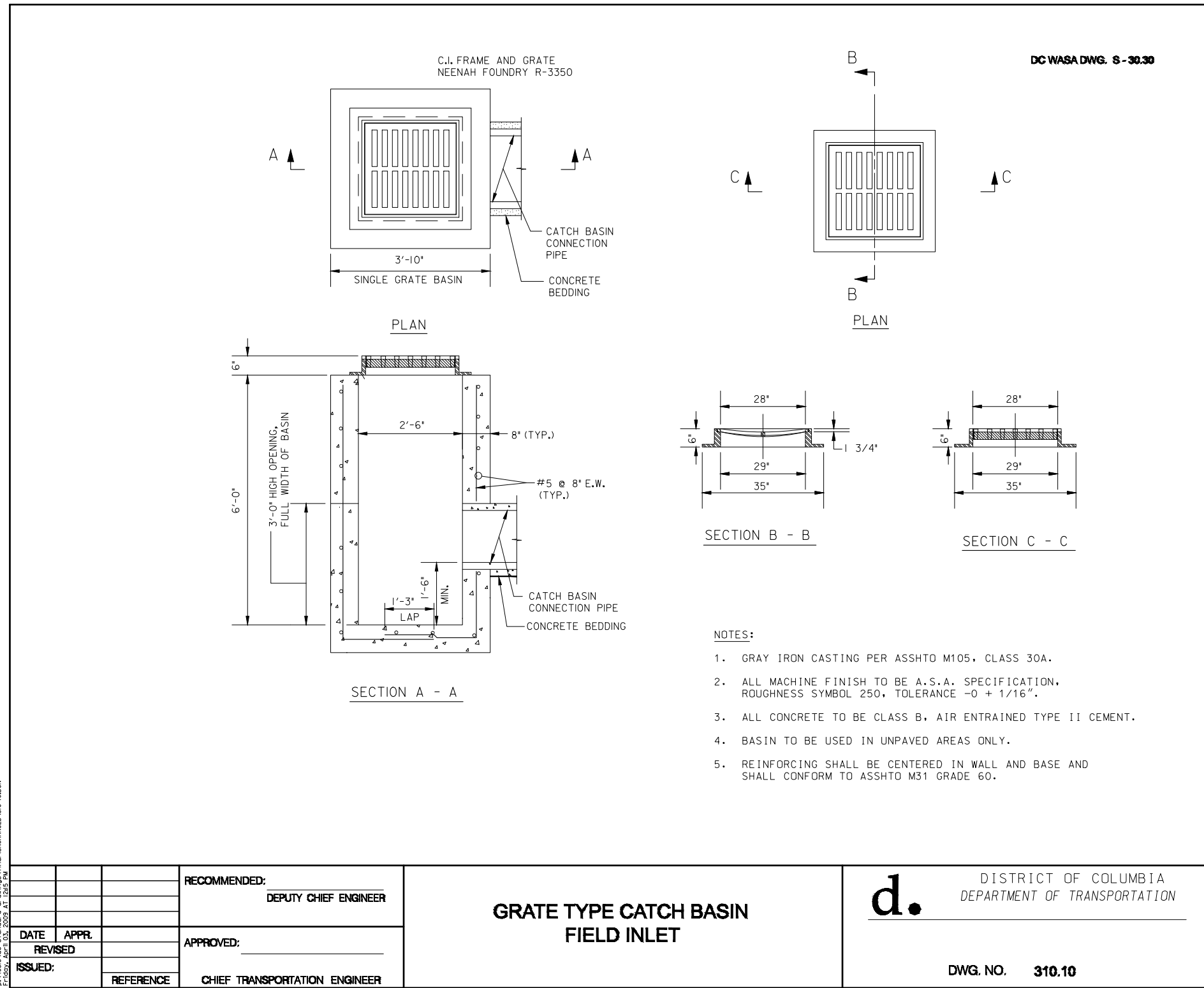
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ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008		
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)		
OPIC PROJECT NUMBER	2533105		
A/E PROJECT NUMBER	00100084		
DRAWING TITLE	SITE DETAILS		
WORKING STAFF	ST	KK	SM
	DESIGNED BY	DRAWN BY	CHECKED BY
SHEET NO.	C 5 10 DT		



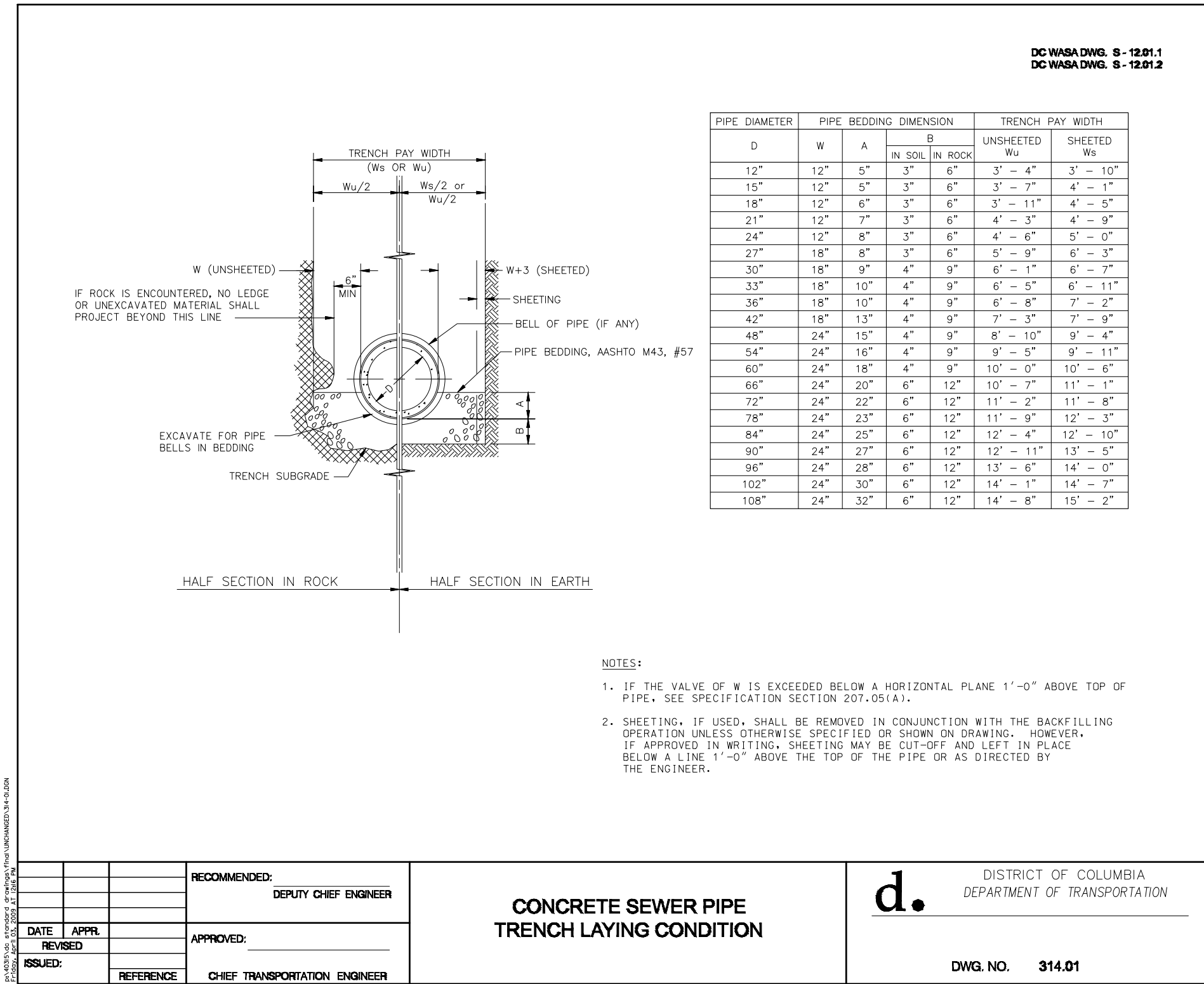
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C-515DT
CONCRETE MANHOLE
(PRECAST BASE) DETAIL
SCALE: NOT TO SCALE



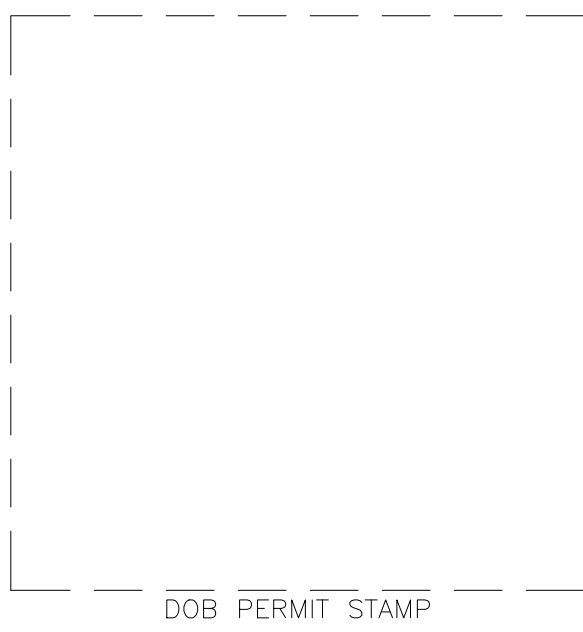
2
C-515DT
CONCRETE MANHOLE
(CAST IN PLACE BASE) DETAIL
SCALE: NOT TO SCALE



3
C-515DT
GRATE TYPE CATCH BASIN FIELD INLET DETAIL
SCALE: NOT TO SCALE



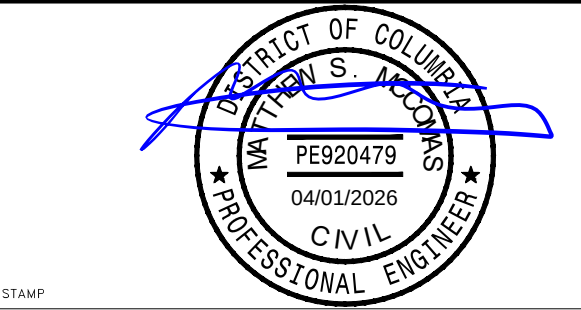
4
C-515DT
CONCRETE SEWER PIPE
TRENCH LAYING CONDITION
SCALE: NOT TO SCALE



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CONSTRUCT ARABIAN LEOPARD FACILITY

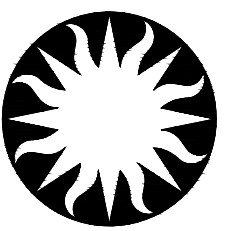
ISSUED FOR BID



KEY PLAN

GRAPHIC SCALE(S)

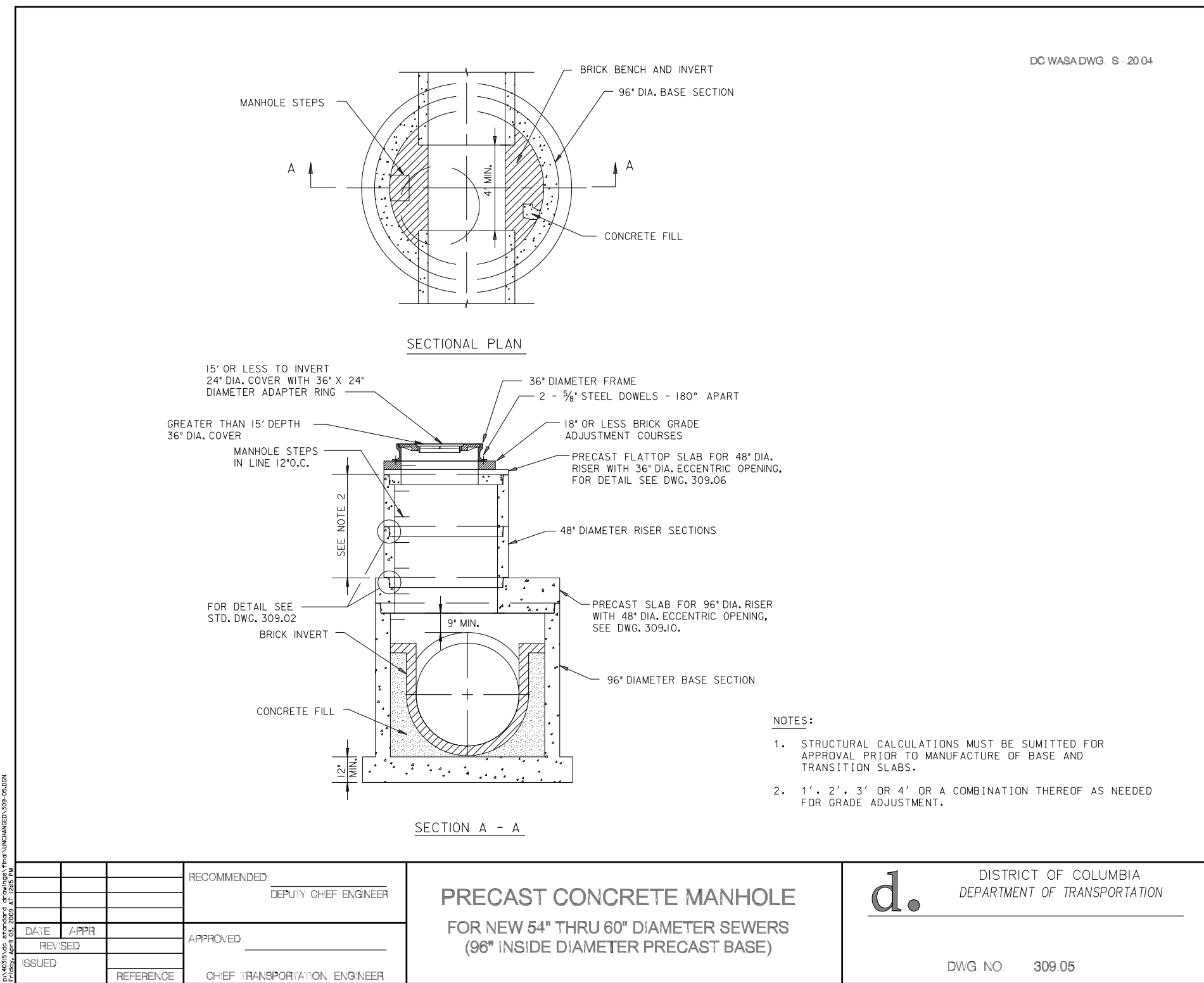
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04/02/2026	ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION



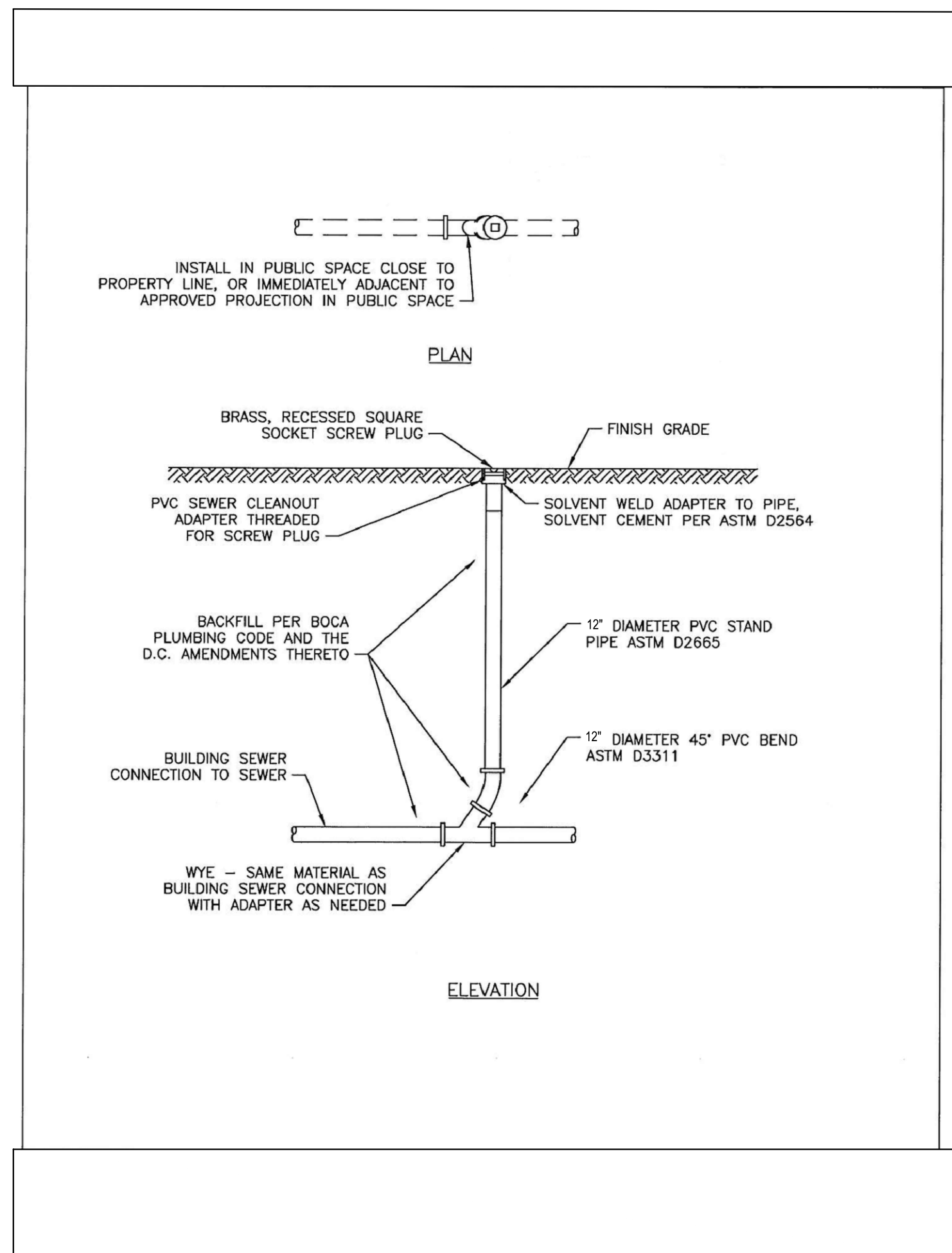
Smithsonian Institution

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

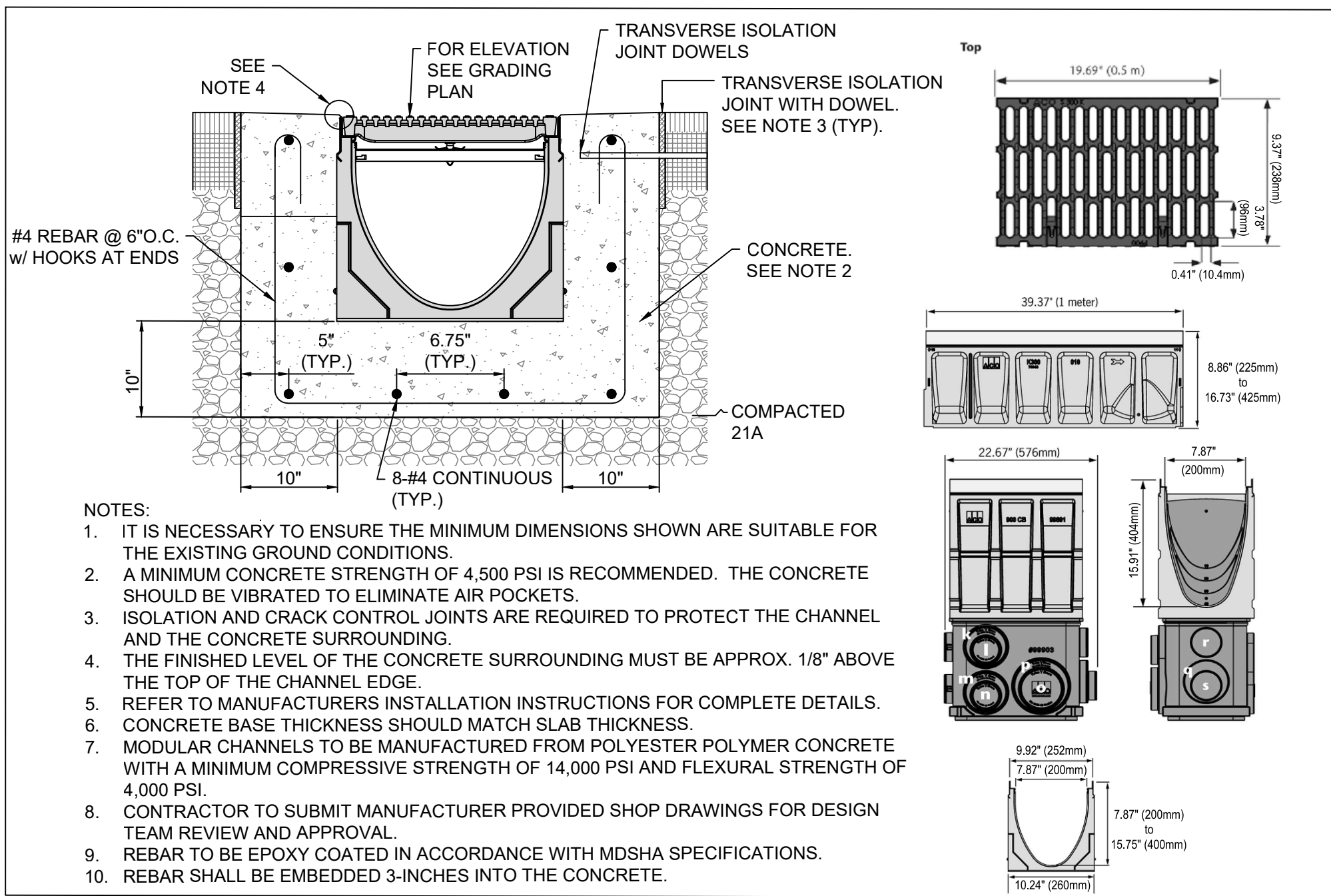
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ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	STORM DETAILS
WORKING STAFF	DESIGNED BY: ST DRAWN BY: KK CHECKED BY: SM
SHEET NO.	C 5 15 DT
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE



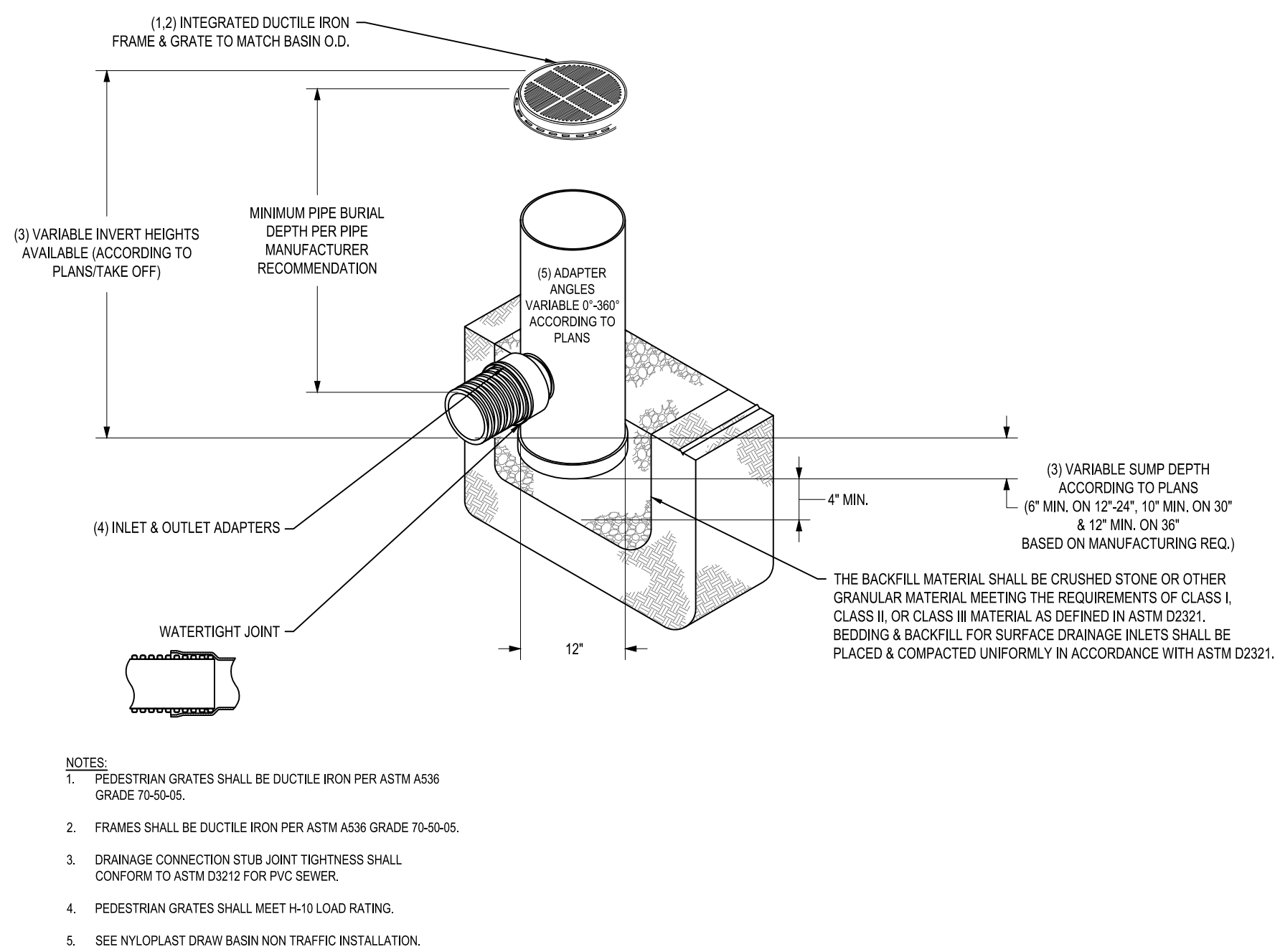
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C-516DT
CONCRETE MANHOLE
(CAST IN PLACE BASE) DETAIL
SCALE: NOT TO SCALE



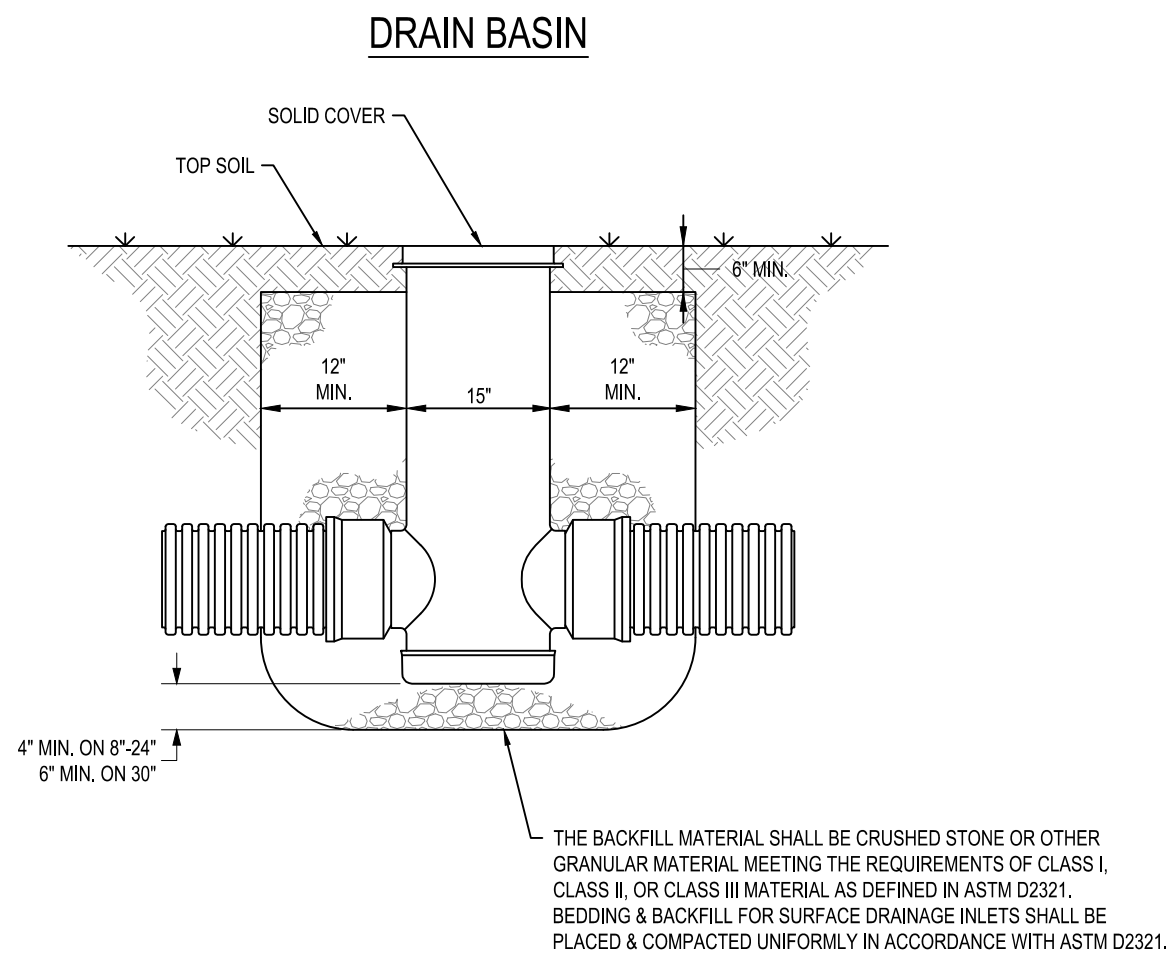
3
C-516DT
CLEANOUT DETAIL
SCALE: NOT TO SCALE



2
C-516DT
TRENCH DRAIN DETAIL
SCALE: NOT TO SCALE



4
C-525DT
NYOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE
SCALE: NOT TO SCALE

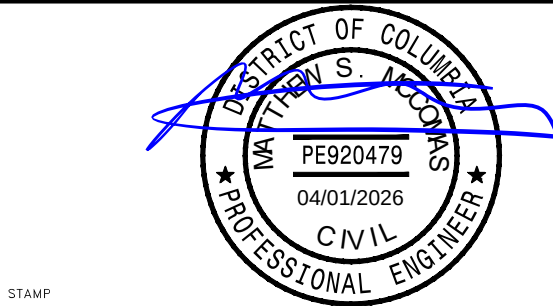


5
C-516DT
NYOPLAST DRAIN BASIN SOLID COVER INSTALLATION
SCALE: NOT TO SCALE

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CONSTRUCT ARABIAN LEOPARD FACILITY

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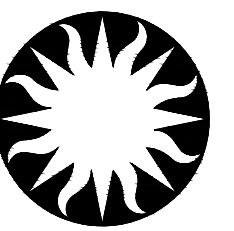


TRUE NORTH

KEY PLAN

GRAPHIC SCALE(S)

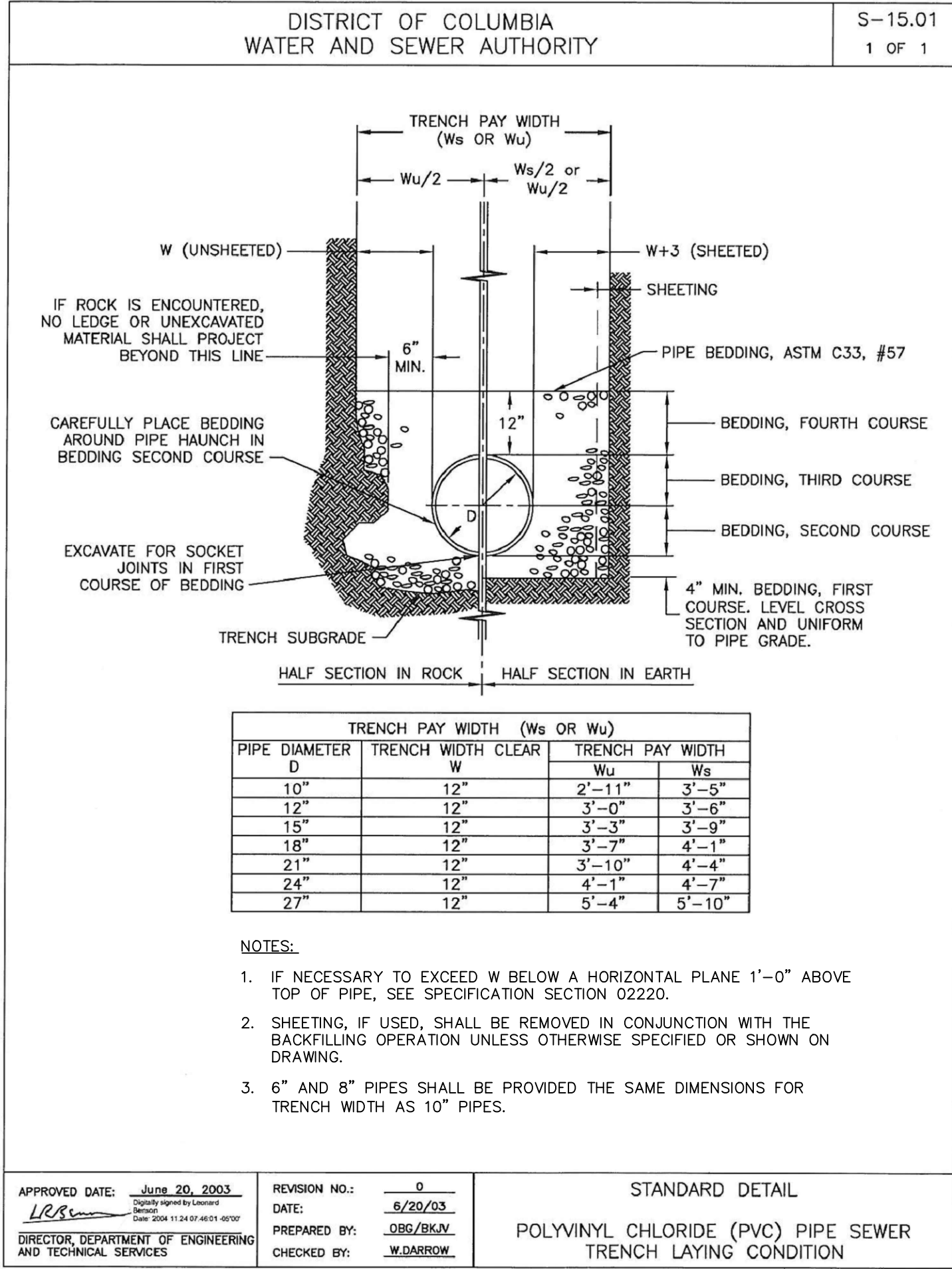
DATE 04/02/2026	REVISION
ISSUED FOR BID	
REVISION # DATE	REVISION DESCRIPTION



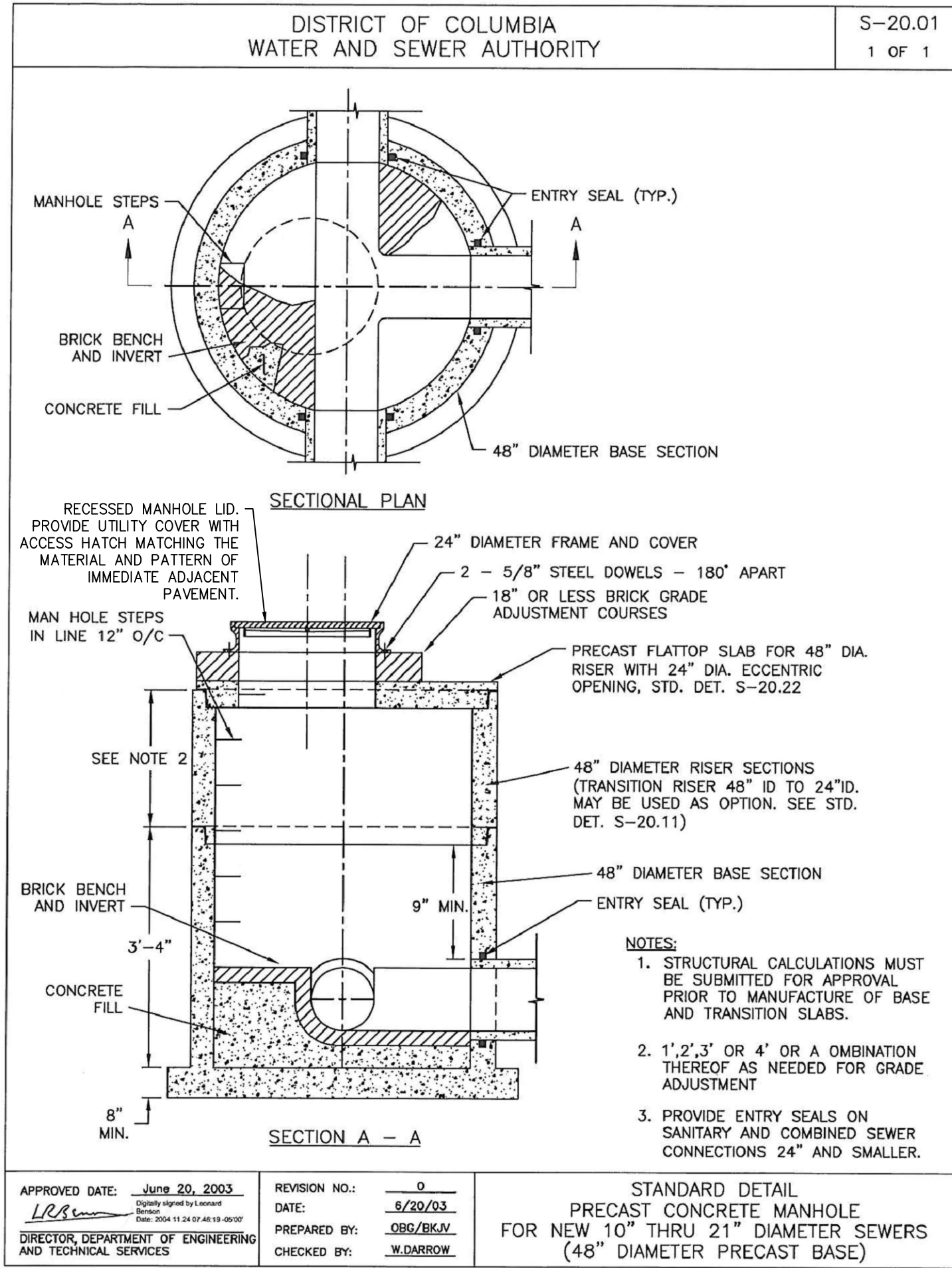
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Washington, DC 20024-2520

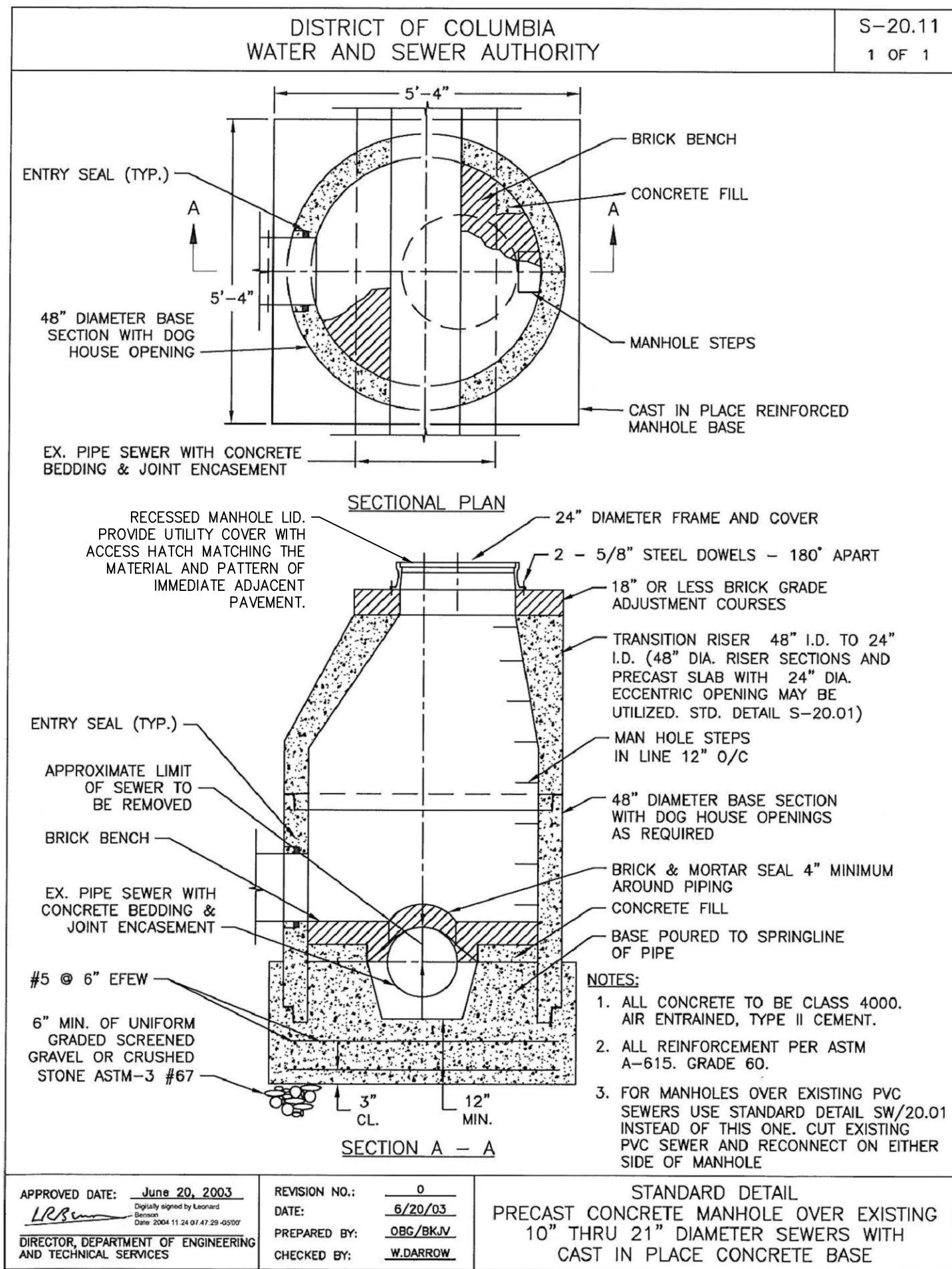
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PROJECT TITLE OPDC PROJECT NUMBER A/E PROJECT NUMBER	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF) 2533105 00100084
DRAWING TITLE WORKING STAFF	STORM DETAILS DESIGNED BY: ST DRAWN BY: KK CHECKED BY: SM
SHEET NO. OF	C 5 16 DT



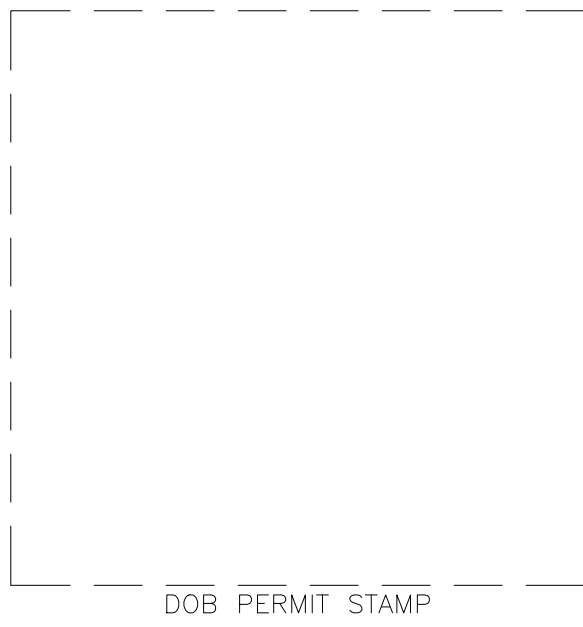
1
C-520DT
PVC SEWER PIPE TRENCH LAYING
CONDITION DETAIL
SCALE: NOT TO SCALE



2
C-520DT
CONCRETE MANHOLE
(PRECAST BASE) DETAIL
SCALE: NOT TO SCALE



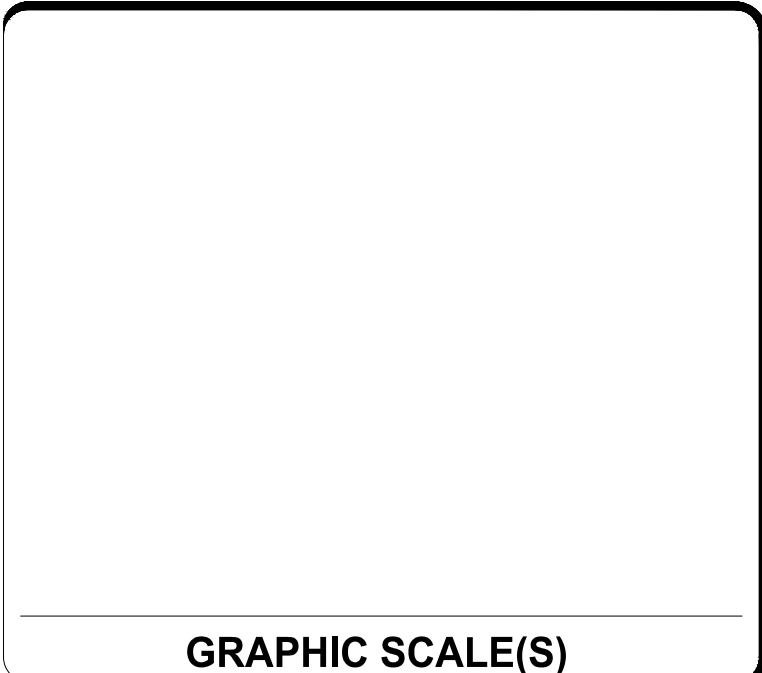
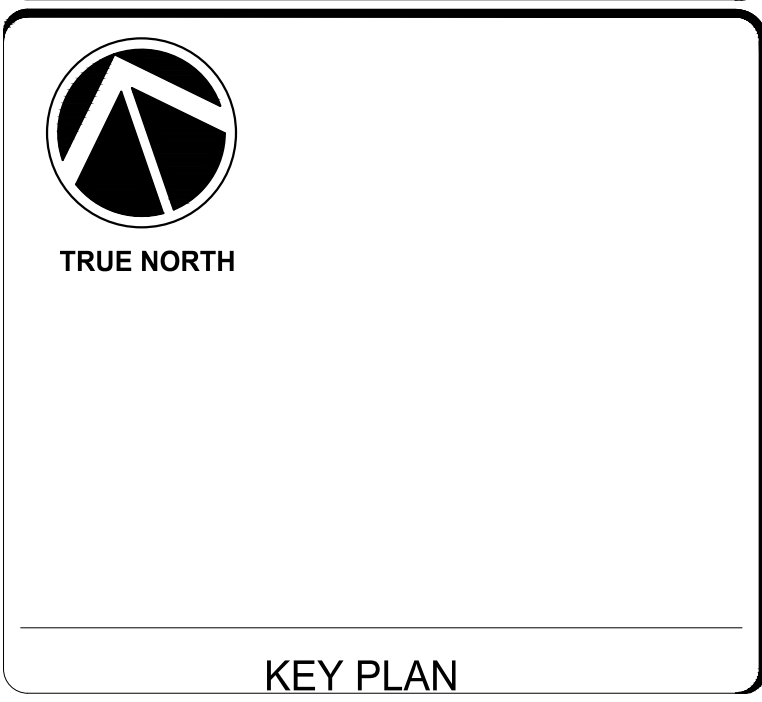
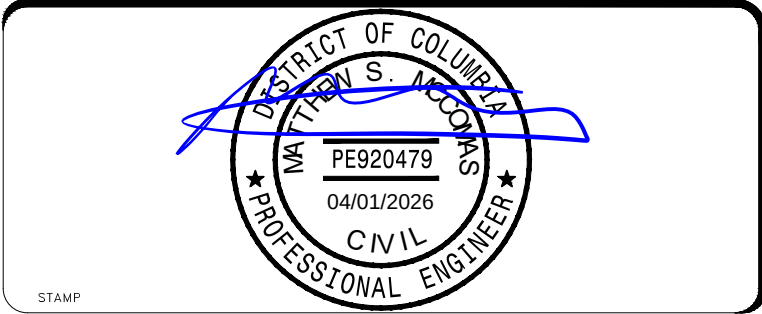
3
C-520DT
CONCRETE MANHOLE
(CAST IN PLACE BASE) DETAIL
SCALE: NOT TO SCALE



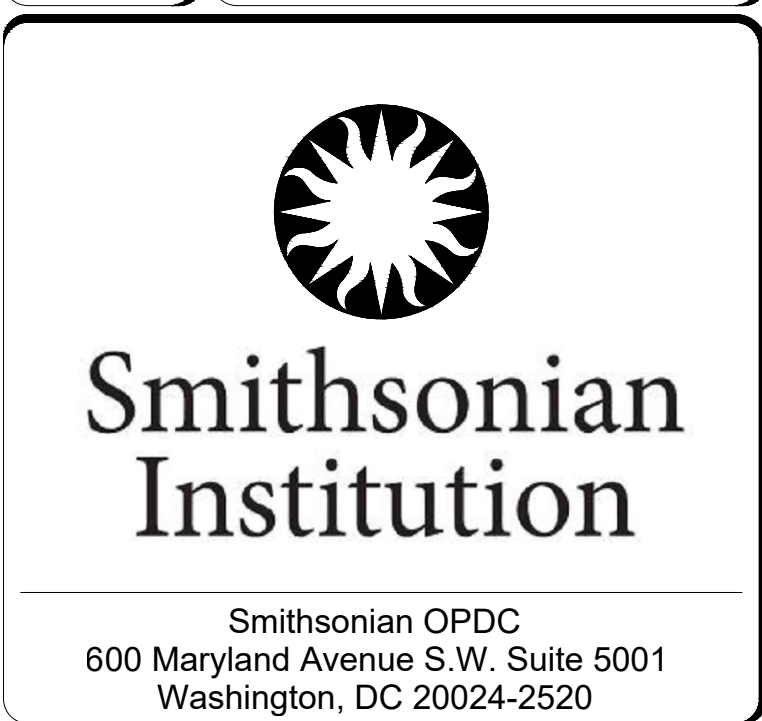
ALF

CONSTRUCT
ARABIAN LEOPARD
FACILITY

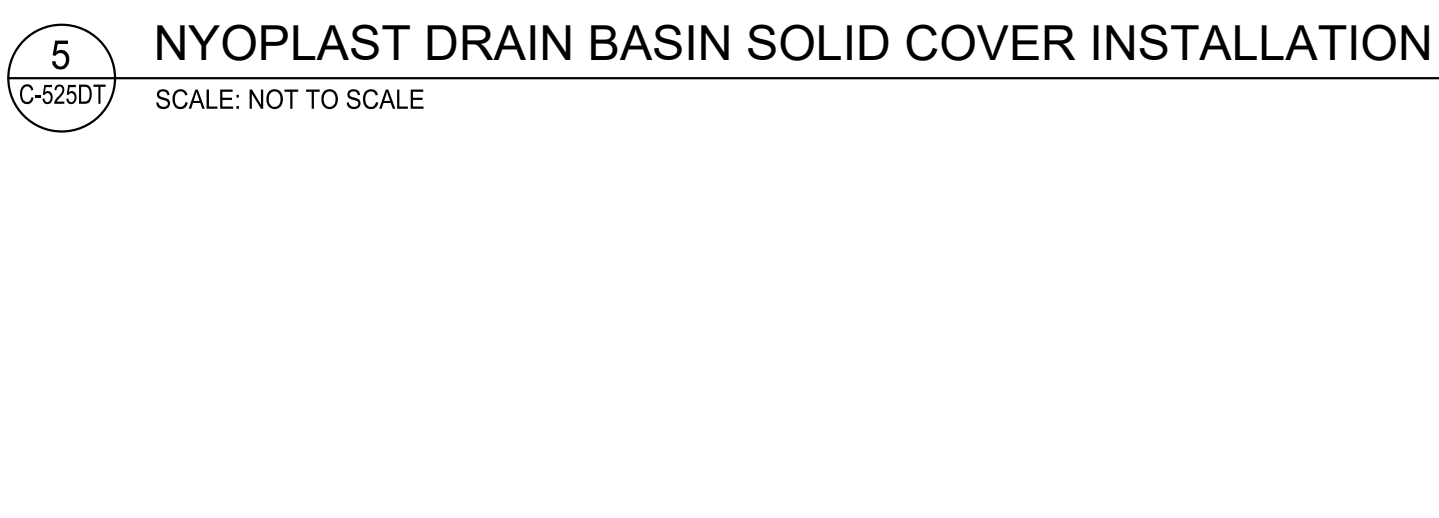
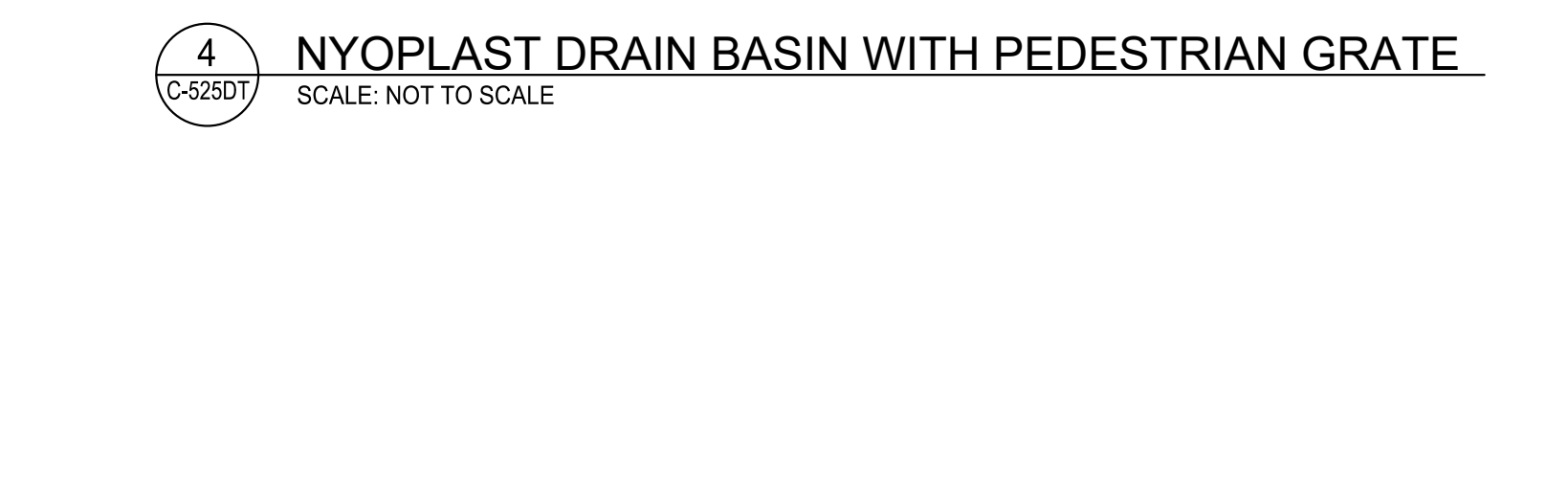
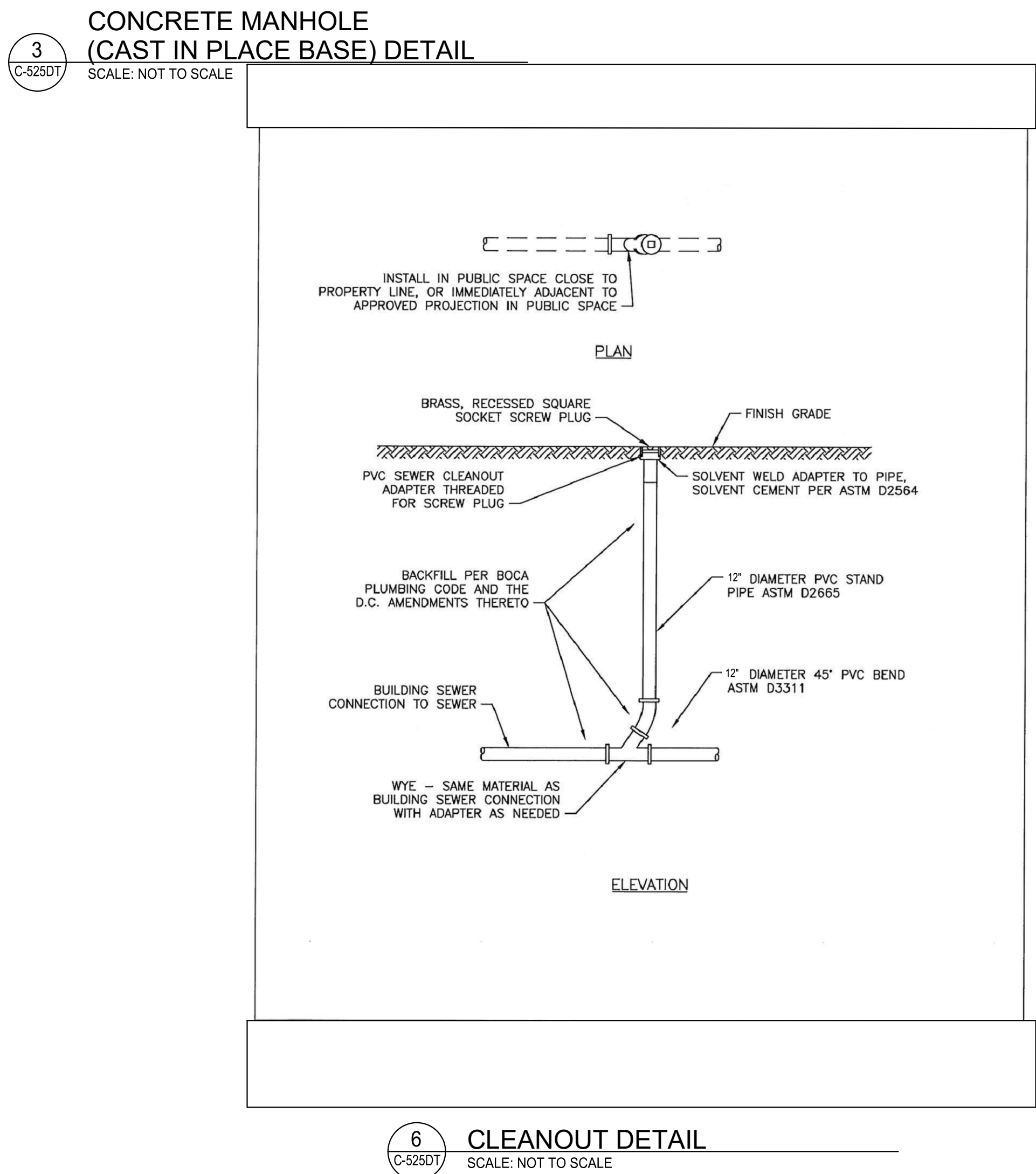
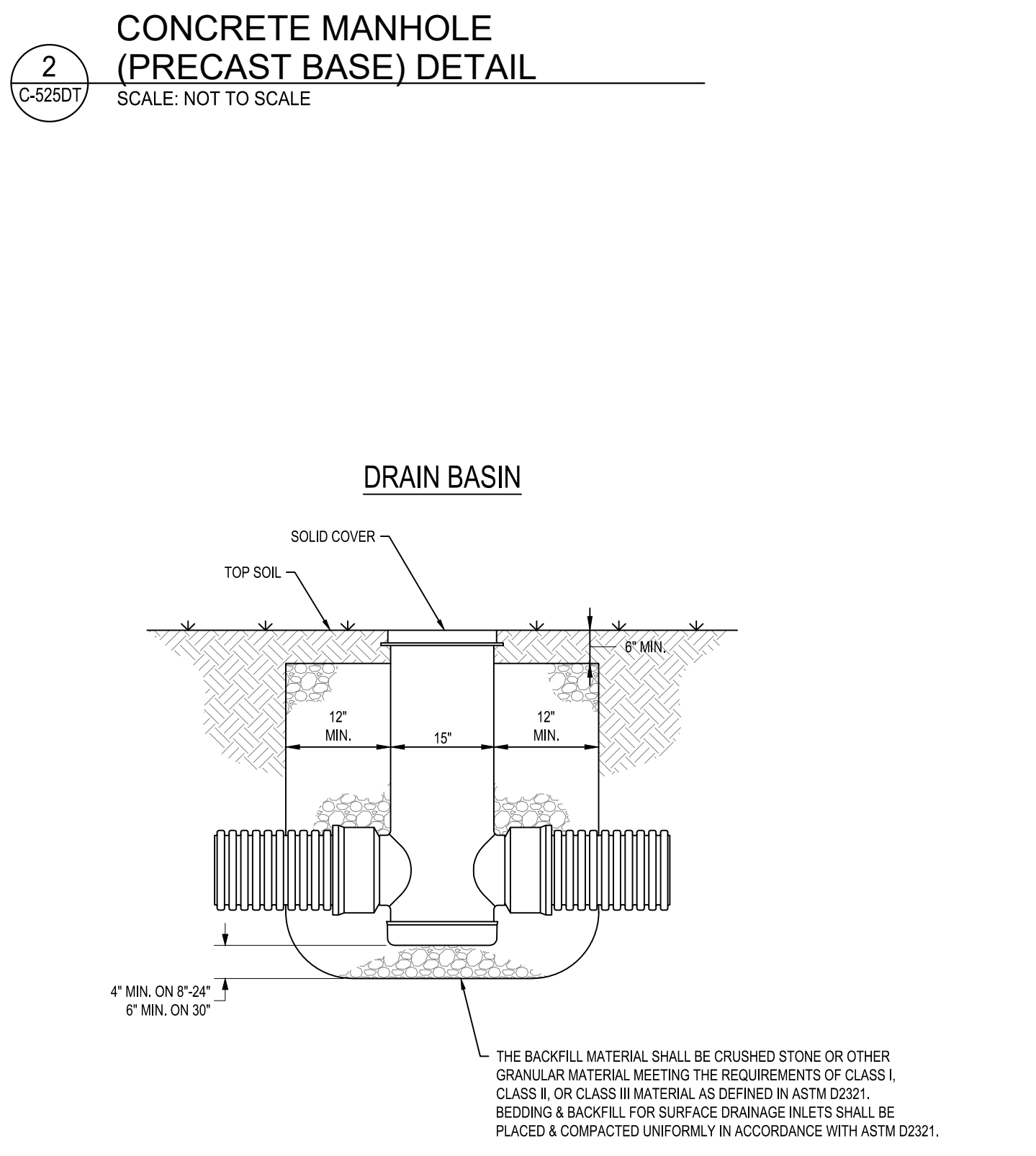
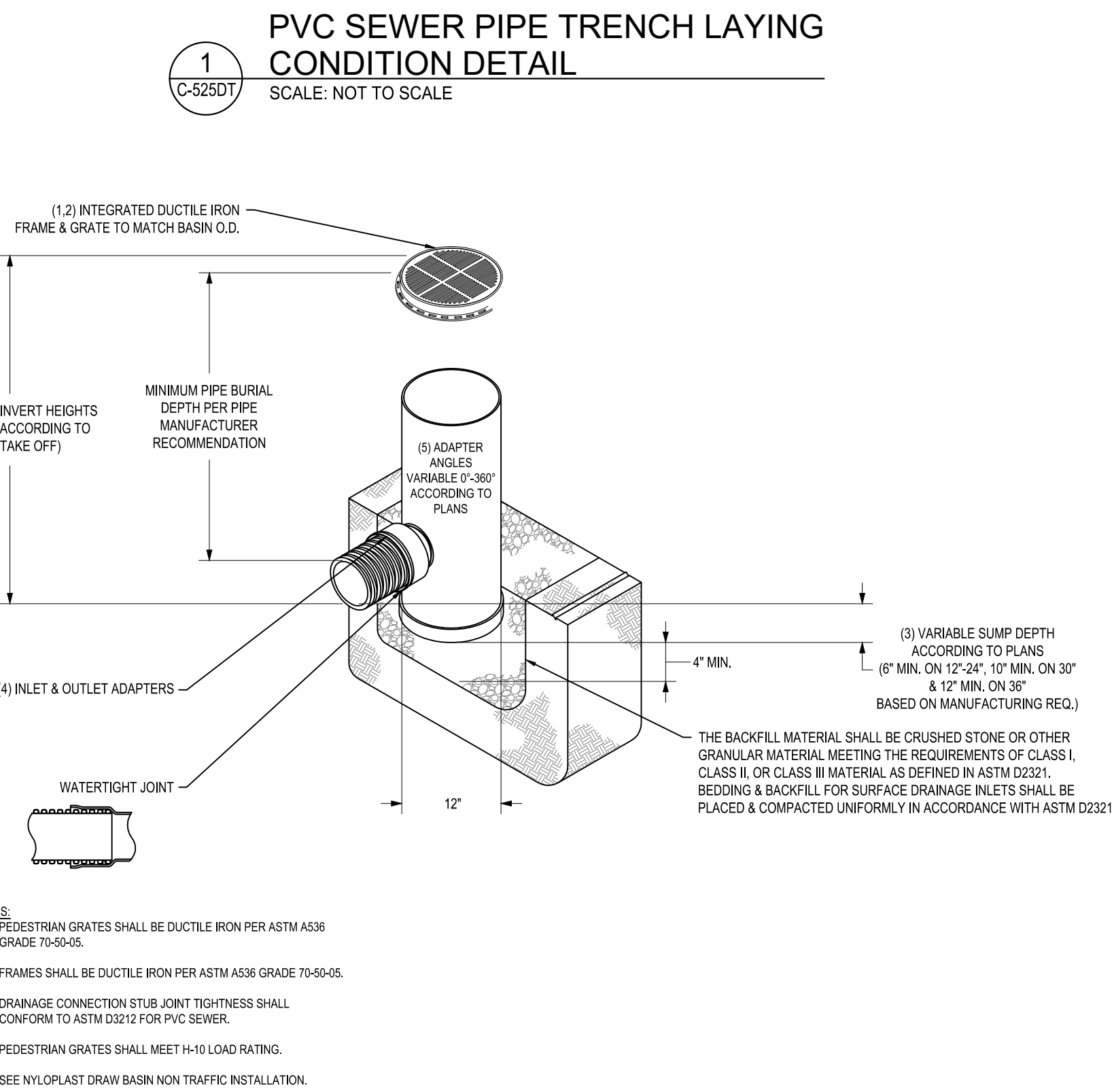
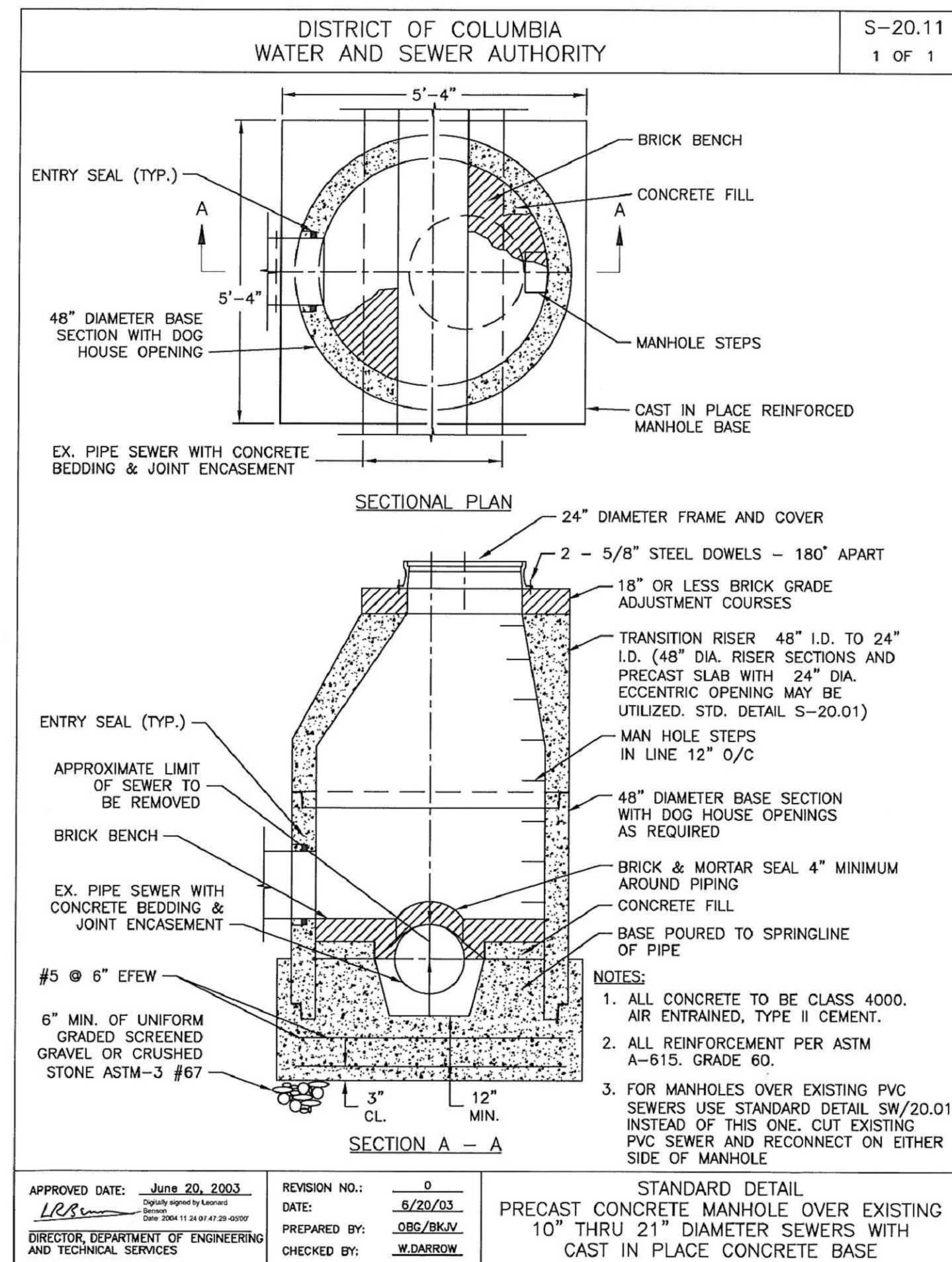
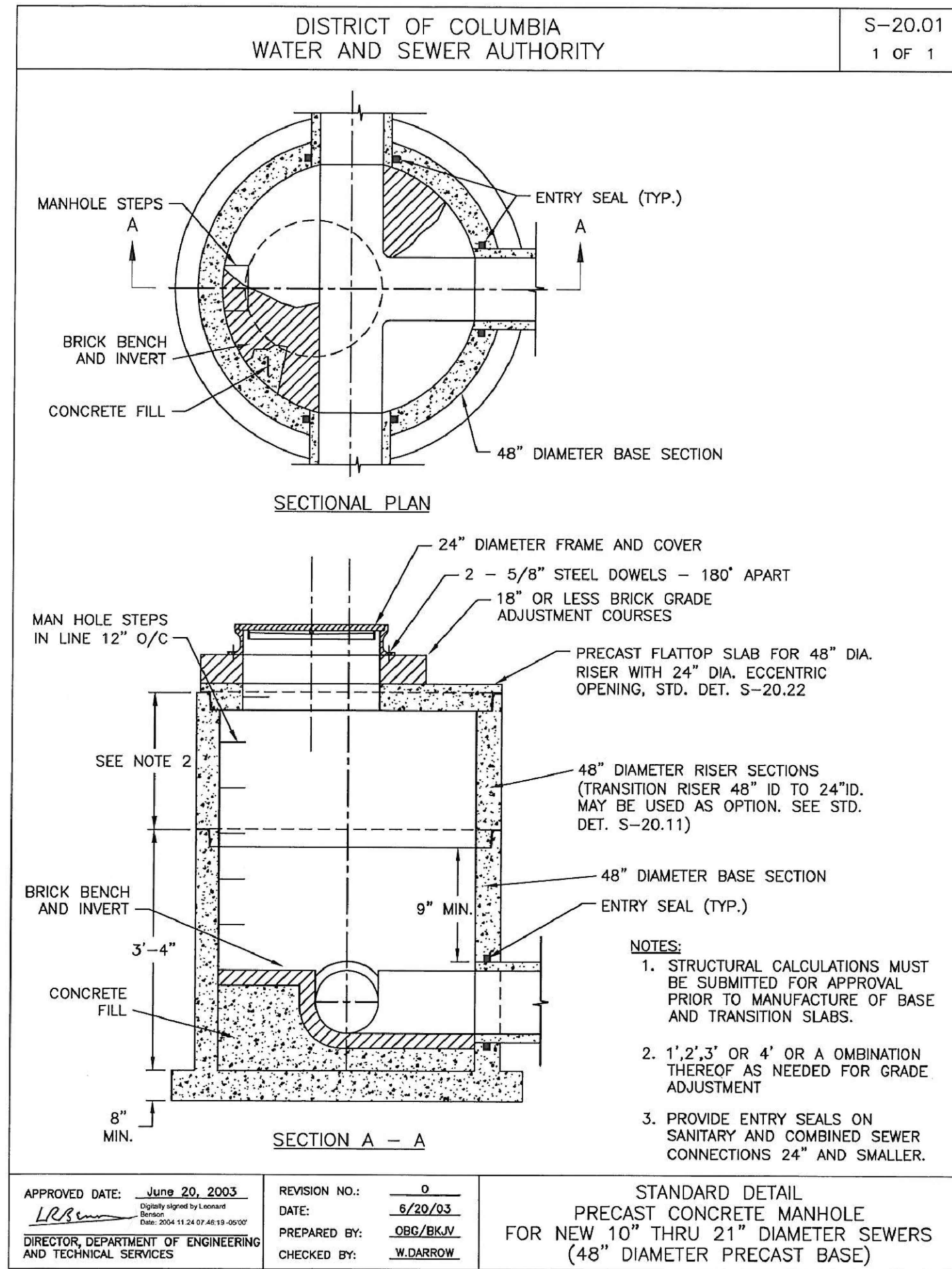
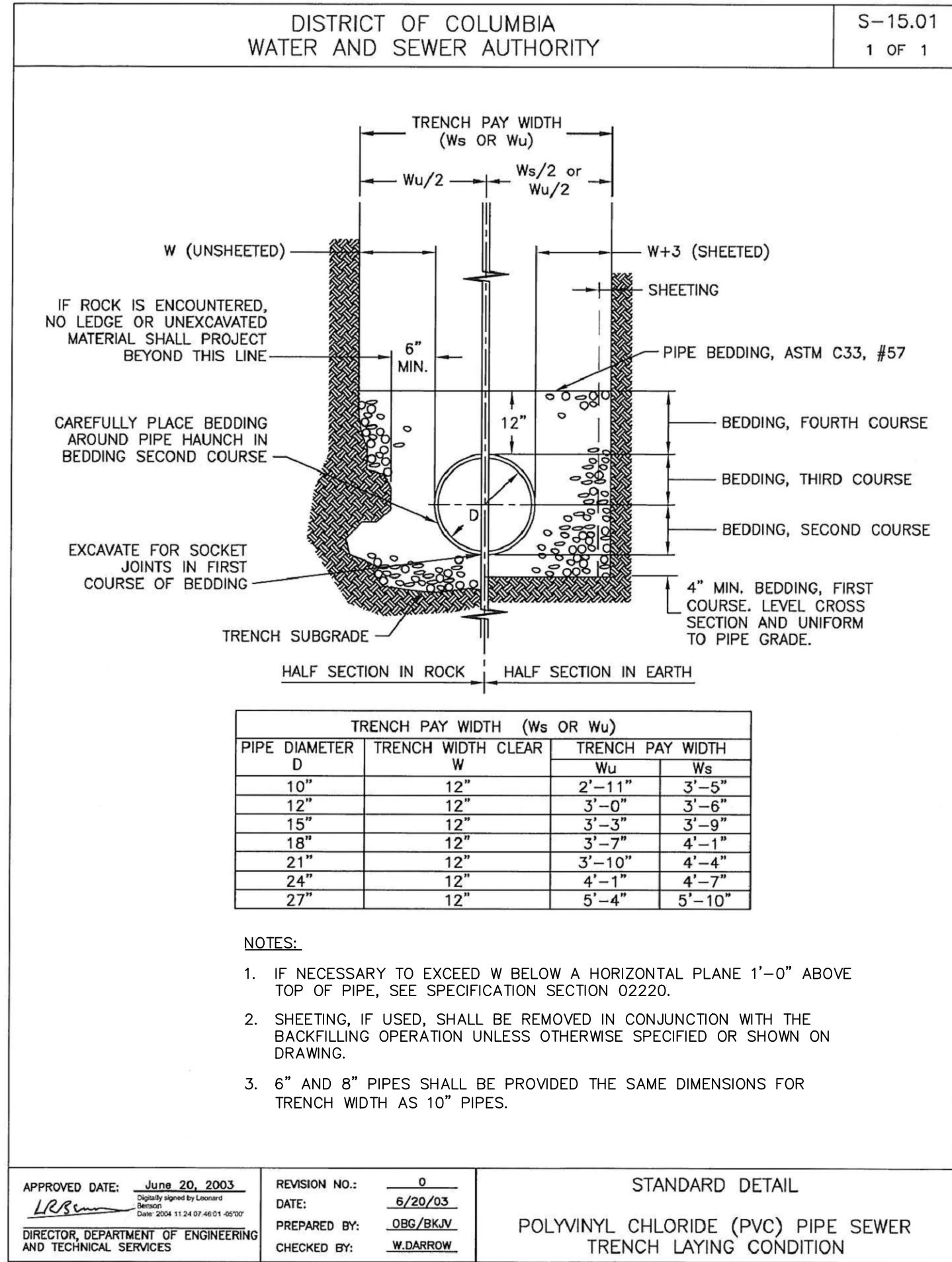
ISSUED FOR BID



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



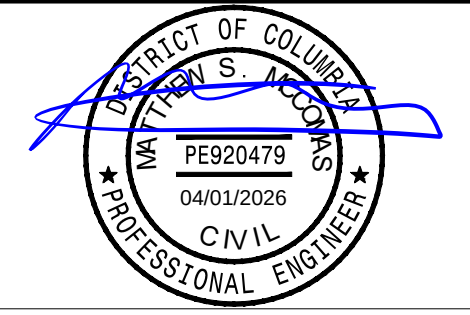
BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	SANITARY DETAILS
WORKING STAFF	ST KK SM
DESIGNED BY	DRAWN BY
CHECKED BY	
SHEET NO.	C 5 20 DT
OF	
DISCIPLINE	TYPE SEQUENCE DRAWING TYPE



ALF

CONSTRUCT
ARABIAN LEOPARD
FACILITY

ISSUED FOR BID



KEY PLAN

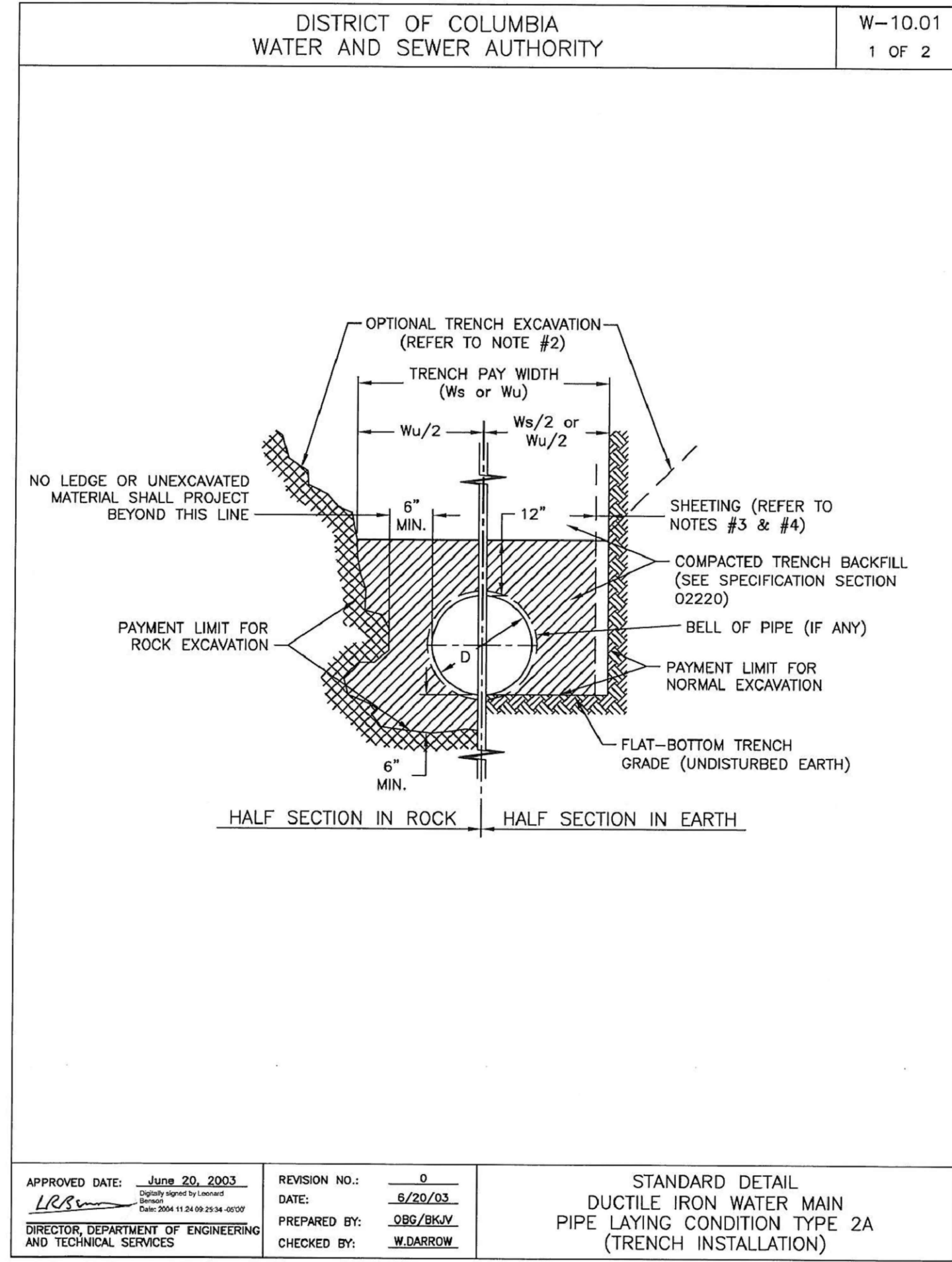
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DATE	SUBMISSION
04/02/2026	ISSUED FOR BID
REVISION # DATE	REVISION DESCRIPTION

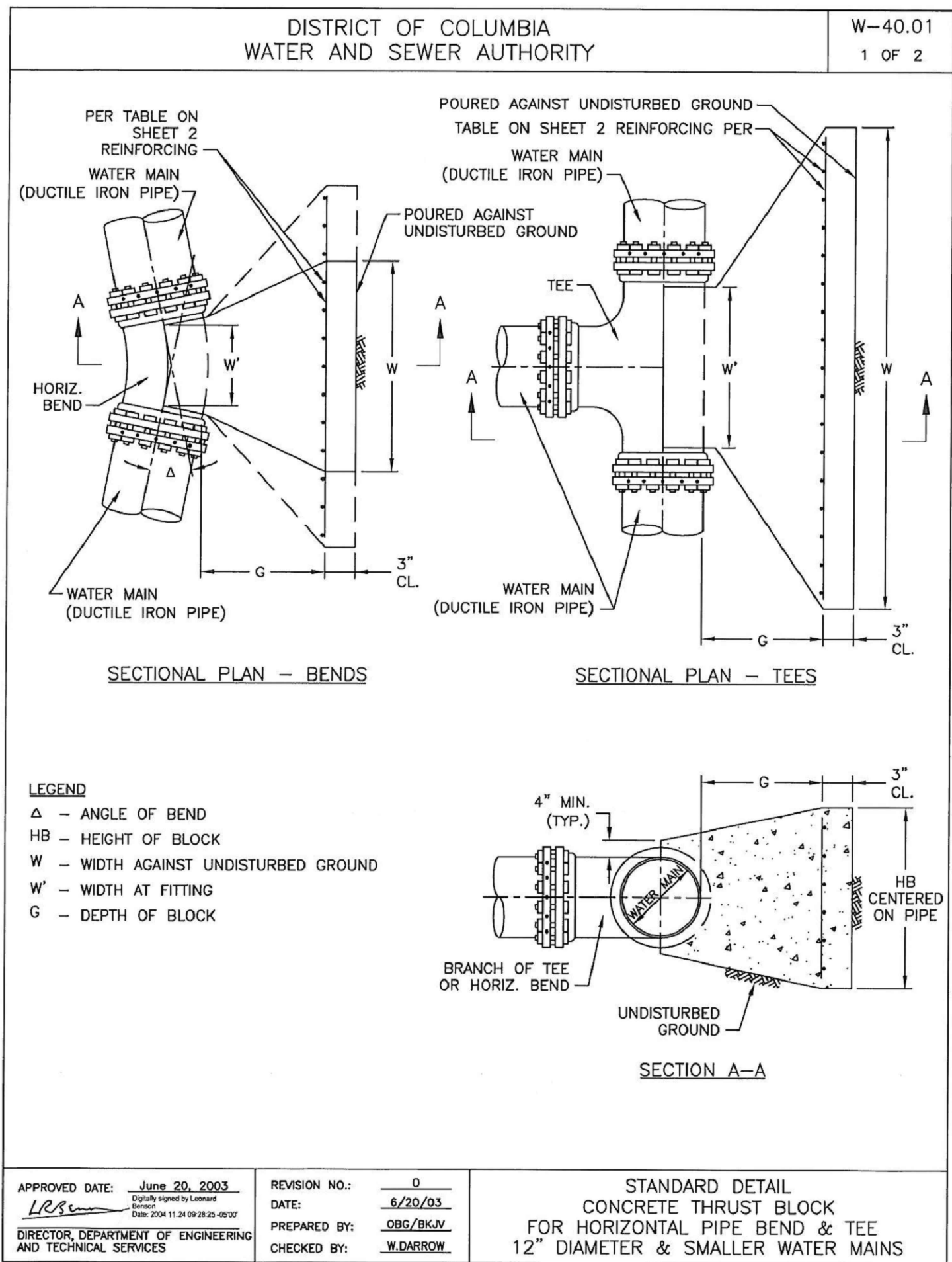
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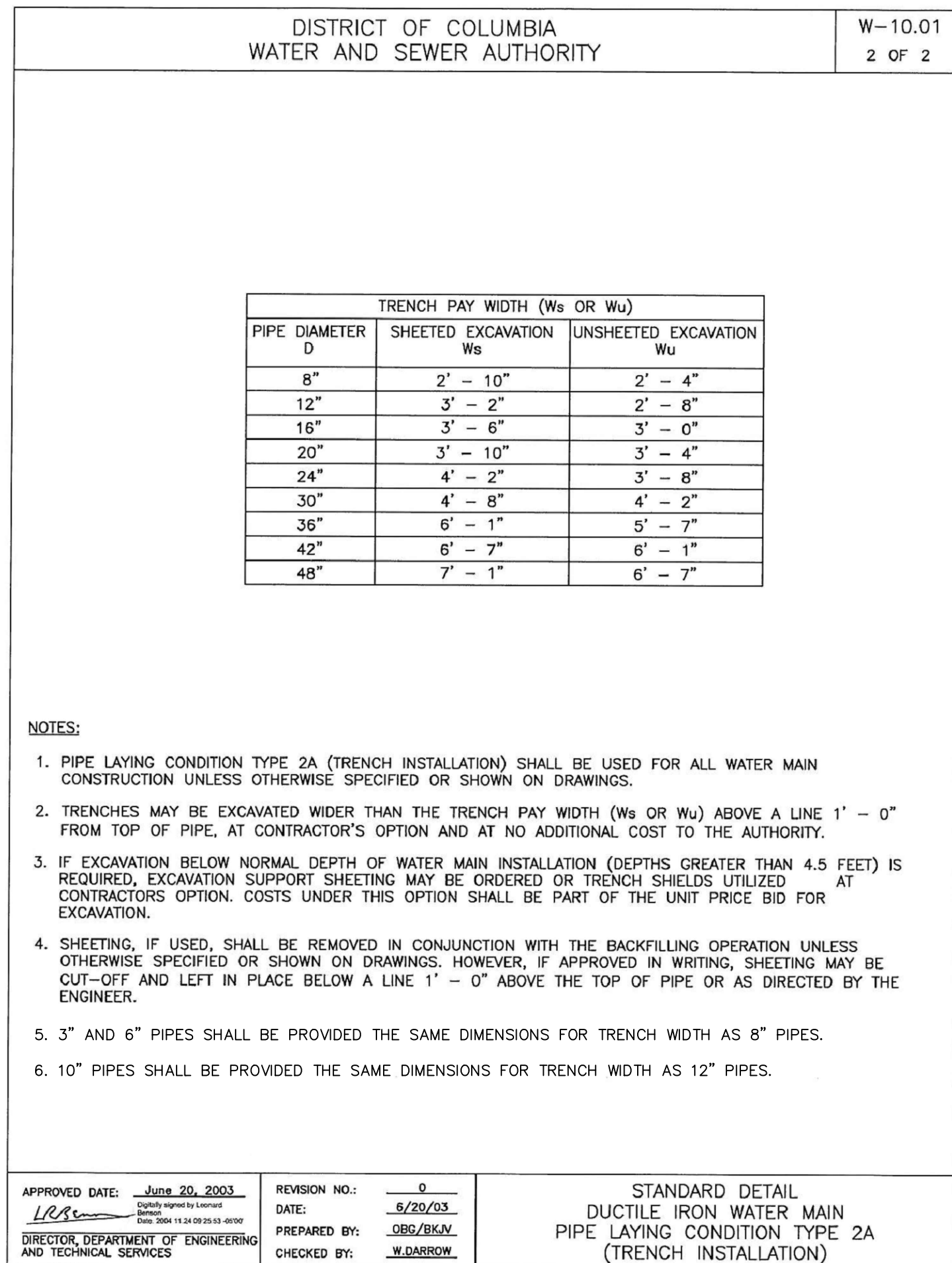
BUILDING NAME	ARABIAN LEOPARD FACILITY (ALF)
ADDRESS	3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER	2533105
A/E PROJECT NUMBER	00100084
DRAWING TITLE	CONTAMINATED STORM DETAILS
WORKING STAFF	DESIGNED BY: ST DRAWN BY: KK CHECKED BY: SM
SHEET NO.	C 5 25 DT
OF	DISCIPLINE TYPE SEQUENCE DRAWING TYPE



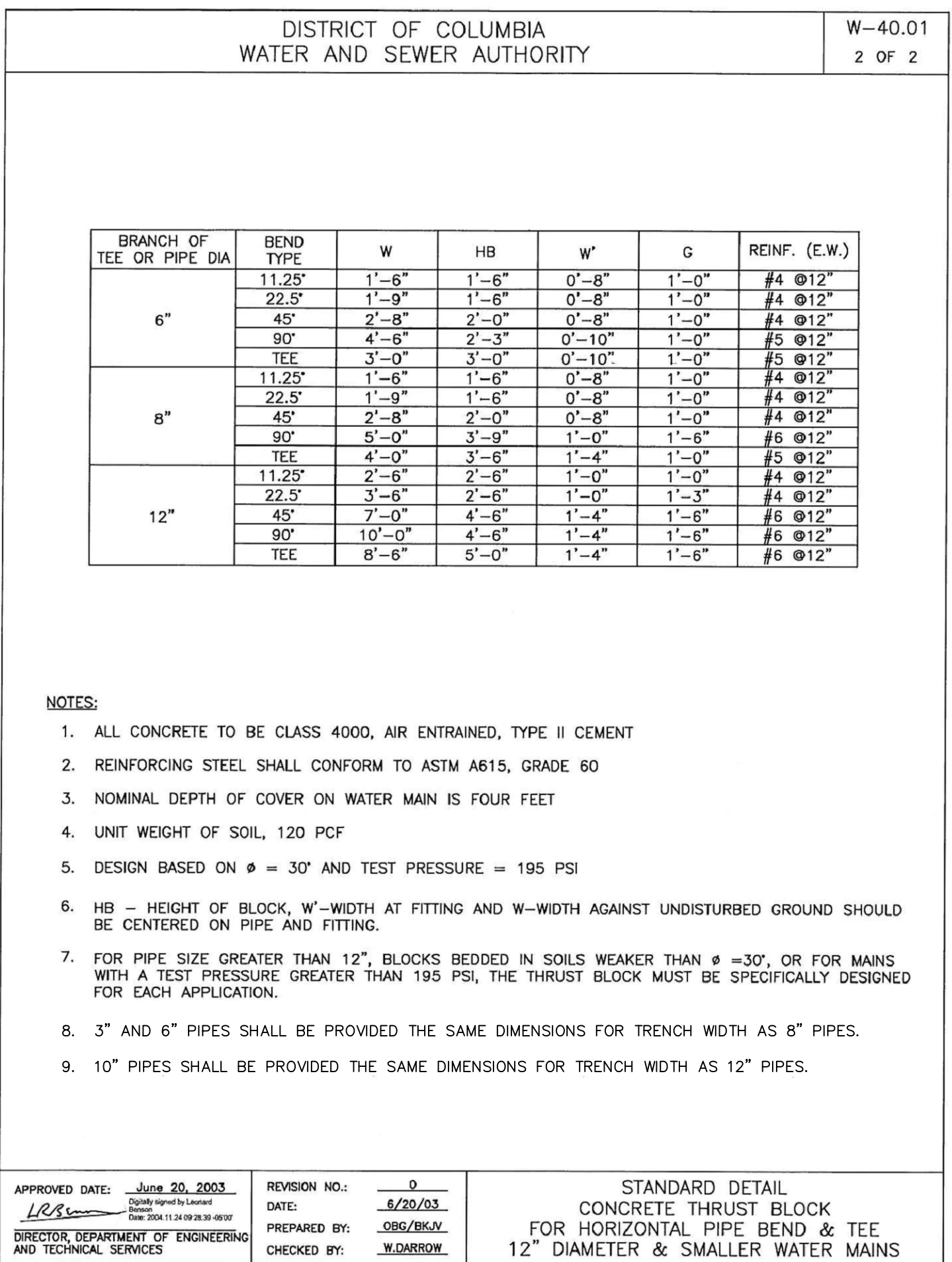
1
C-530DT
DIP LAYING CONDITION TYPE 2
(TRENCH INSTALLATION) DETAIL
SCALE: NOT TO SCALE



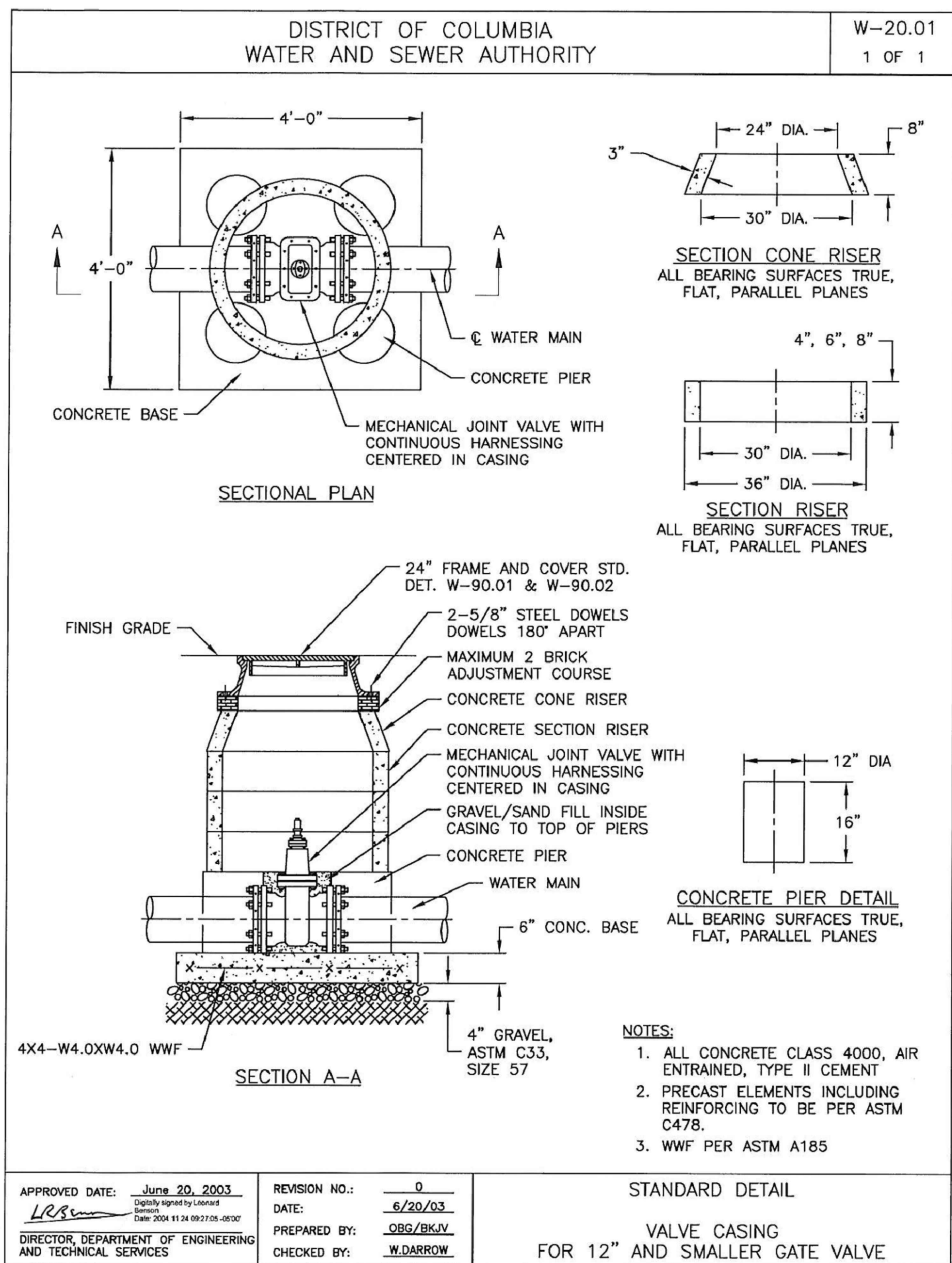
4
C-530DT
CONCRETE THRUST BLOCK DETAIL
SCALE: NOT TO SCALE



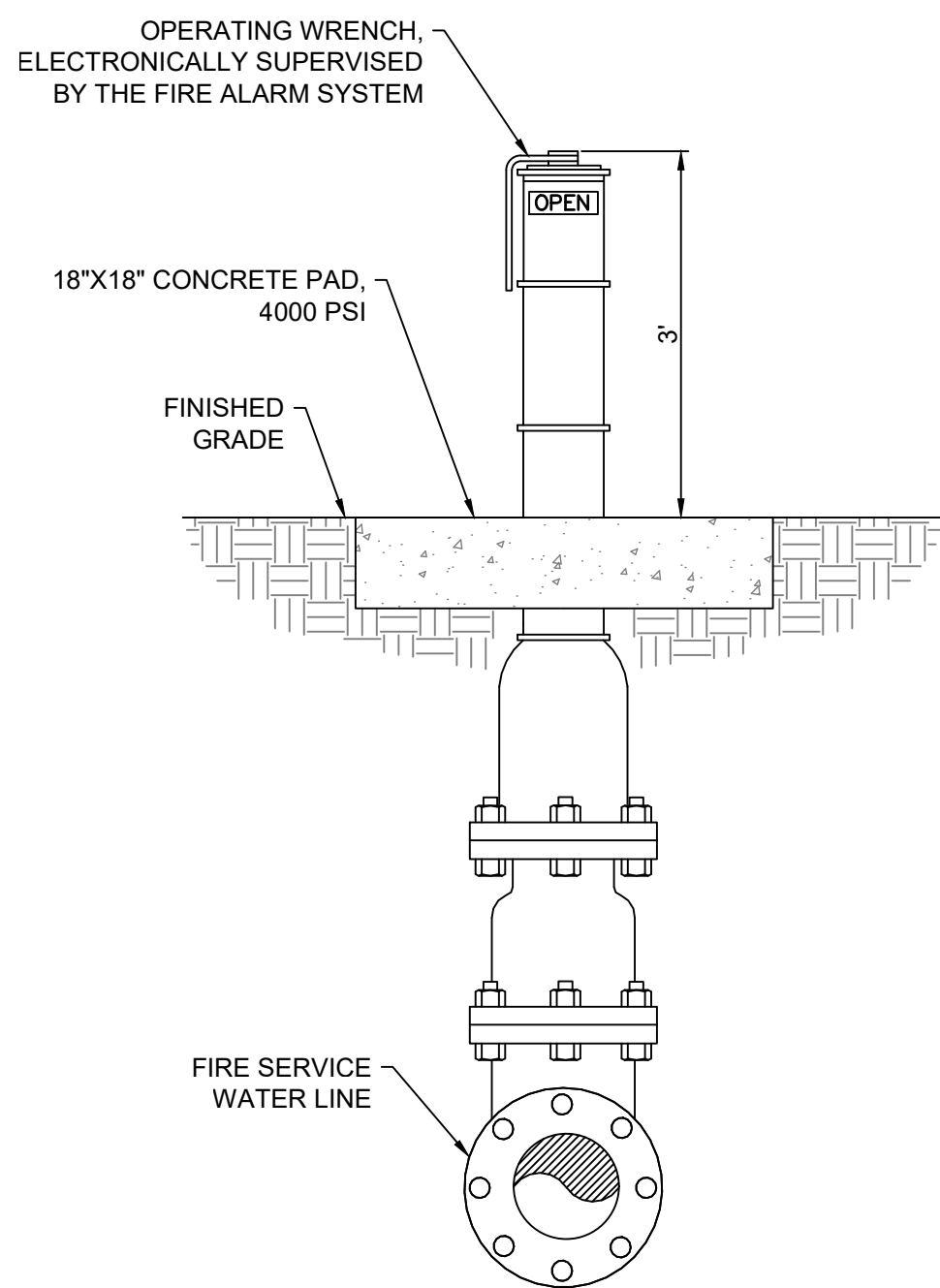
2
C-530DT
DIP LAYING CONDITION TYPE 2
(TRENCH INSTALLATION) DETAIL
SCALE: NOT TO SCALE



5
C-530DT
CONCRETE THRUST BLOCK DETAIL
SCALE: NOT TO SCALE



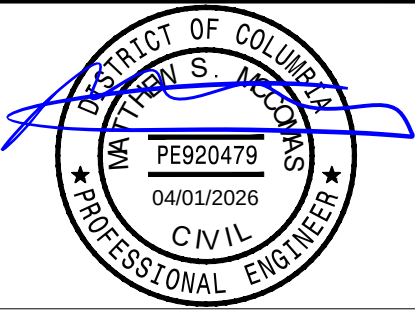
3
C-530DT
VALVE CASING DETAIL
SCALE: NOT TO SCALE



ALF

CONSTRUCT ARABIAN LEOPARD FACILITY

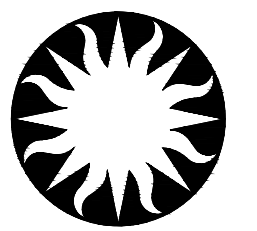
ISSUED FOR BID



KEY PLAN

GRAPHIC SCALE(S)

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



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BUILDING NAME ADDRESS	ARABIAN LEOPARD FACILITY (ALF) 3001 Connecticut Avenue NW Washington, DC 20008
PROJECT TITLE	CONSTRUCT ARABIAN LEOPARD FACILITY (ALF)
OPDC PROJECT NUMBER A/E PROJECT NUMBER	2533105 00100084
DRAWING TITLE	WATER DETAILS
WORKING STAFF	DESIGNED BY: ST DRAWN BY: KK CHECKED BY: SM
SHEET NO. OF	C 530 DT

SHEET NO.	C	5	31	DT
OF				