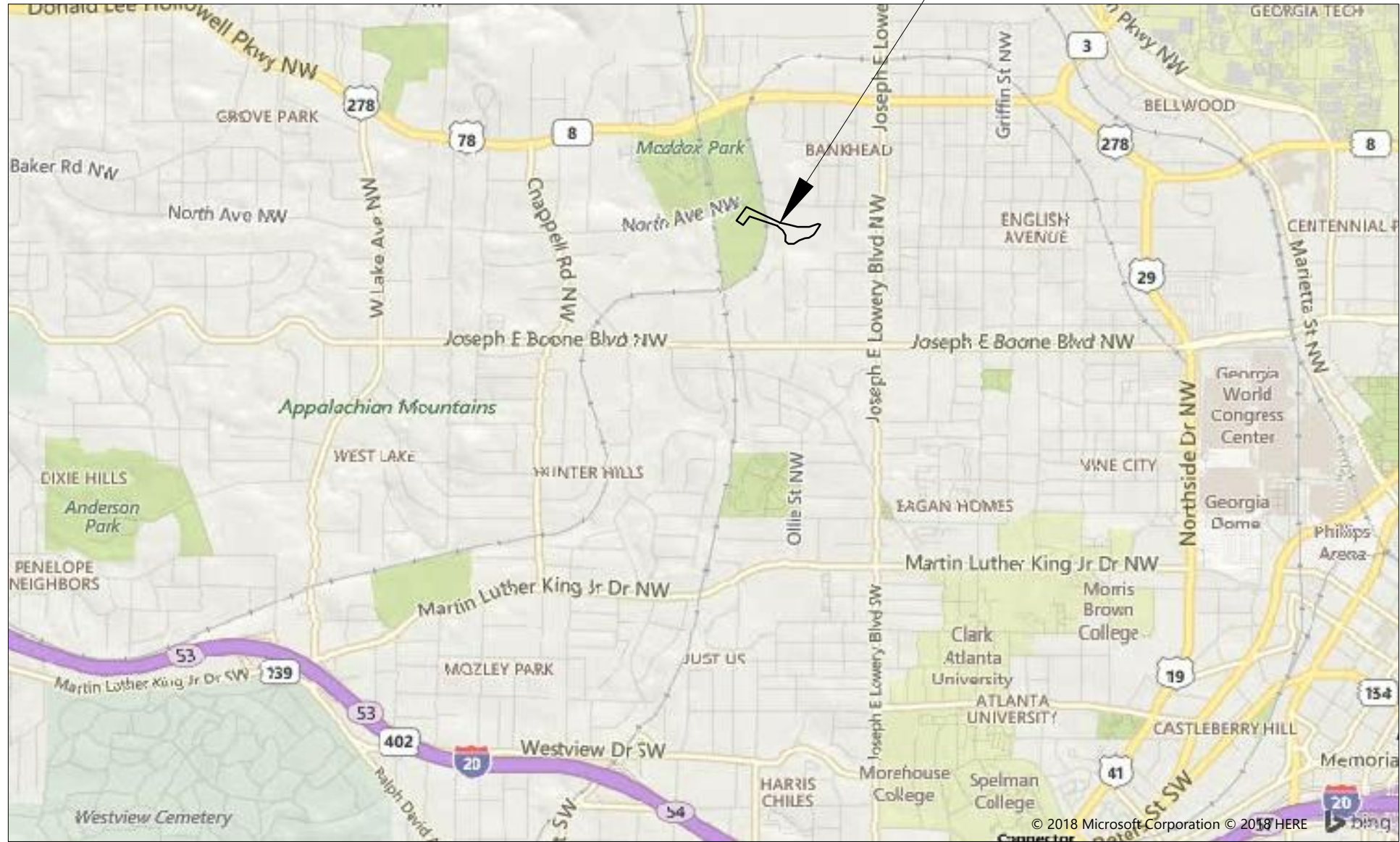


CITY OF ATLANTA

STATE OF GEORGIA

VICINITY MAP  
NTS

PROJECT LOCATION



LOCATION MAP  
1" = 2000'

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

*Christopher Hamblen* 02/10/2022  
CHRISTOPHER HAMBLÉN, P.E. DATE

PROJECT DESCRIPTION:  
THIS PROJECT INVOLVES CONSTRUCTION OF A CONSTRUCTED WETLAND TO INTERCEPT AND DIRECT STORMWATER RUNOFF AND BASE FLOW AWAY FROM THE NORTH AVENUE CSO FACILITY AND INTO MOSQUITO HOLE TRIBUTARY. HEAVY GRADING TO BUILD THE CONSTRUCTED WETLAND AND THE SURROUNDING PATHWAYS FOR PEDESTRIAN AND/OR MAINTENANCE ACCESS. AN OUTLET CONTROL STRUCTURE WILL TIE INTO THE EXISTING SAINT JOHN TRUNK LINE AND THE PRIMARY CONTROL STRUCTURE WILL PROVIDE OUTLET VIA A PROPOSED 72" LINE TO THE CSO AS SHOWN IN THESE DRAWINGS.

EROSION NOTE:  
EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) WILL BE EMPLOYED AND ENFORCED PURSUANT TO AN EROSION AND SEDIMENT CONTROL PLAN PREPARED BY A GEORGIA SOIL AND WATER CONSERVATION COMMISSION LEVEL-2 DESIGN PROFESSIONAL. PRIOR TO LAND-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA EROSION CONTROL INSPECTOR. CALL (404) 546-1300 TO CONTACT THE INSPECTOR.

100% DESIGN DOCUMENTS  
FOR CONSTRUCTION OF THE

# PROCTOR CREEK CONSTRUCTED WETLAND AT HISTORIC WESTIN HEIGHTS (VALLEY OF THE HAWKS)

TASK ORDER 061 GREEN INFRASTRUCTURE DESIGN  
CITY OF ATLANTA, GA

VOLUME 3 OF 3  
DRAWINGS



PREPARED FOR

DEPARTMENT OF  
WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

PREPARED BY

**ch2m** **ROHADFOX**  
A JOINT VENTURE



## CONTACTS

OWNER:  
CITY OF ATLANTA  
DEPARTMENT OF WATERSHED MANAGEMENT  
72 MARIETTA STREET NW  
ATLANTA, GA 30303

RHONDA CRENSHAW, PROJECT MANAGER (404) 546-3331  
GLEN BEHREND P.E., PROJECT SPONSOR 404-546-1441

ENGINEER:  
CH2M ROHADFOX

10 10TH STREET NE  
SUITE 1400  
ATLANTA, GA 30309

VERONICA JARRIN, P.E. (404) 978-7600

## SITE INFORMATION

ADDRESS: CAIRO STREET NW, ATLANTA, GA  
SITE ZONING: RG-2  
NEIGHBORHOOD: HISTORIC WESTIN HEIGHTS  
NPU: K  
CITY COUNCIL DISTRICT: 3

TOTAL DISTURBED AREA = 6.70 acres  
TOTAL SITE AREA = 6.70 acres

NOTIFY INSPECTIONS 24 HOURS  
PRIOR TO THE BEGINNING OF EVERY PHASE  
OF CONSTRUCTION. (404) 546-1300

**ch2m** **ROHADFOX**  
A JOINT VENTURE

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
061 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

GENERAL  
COVER SHEET

AS SHOWN

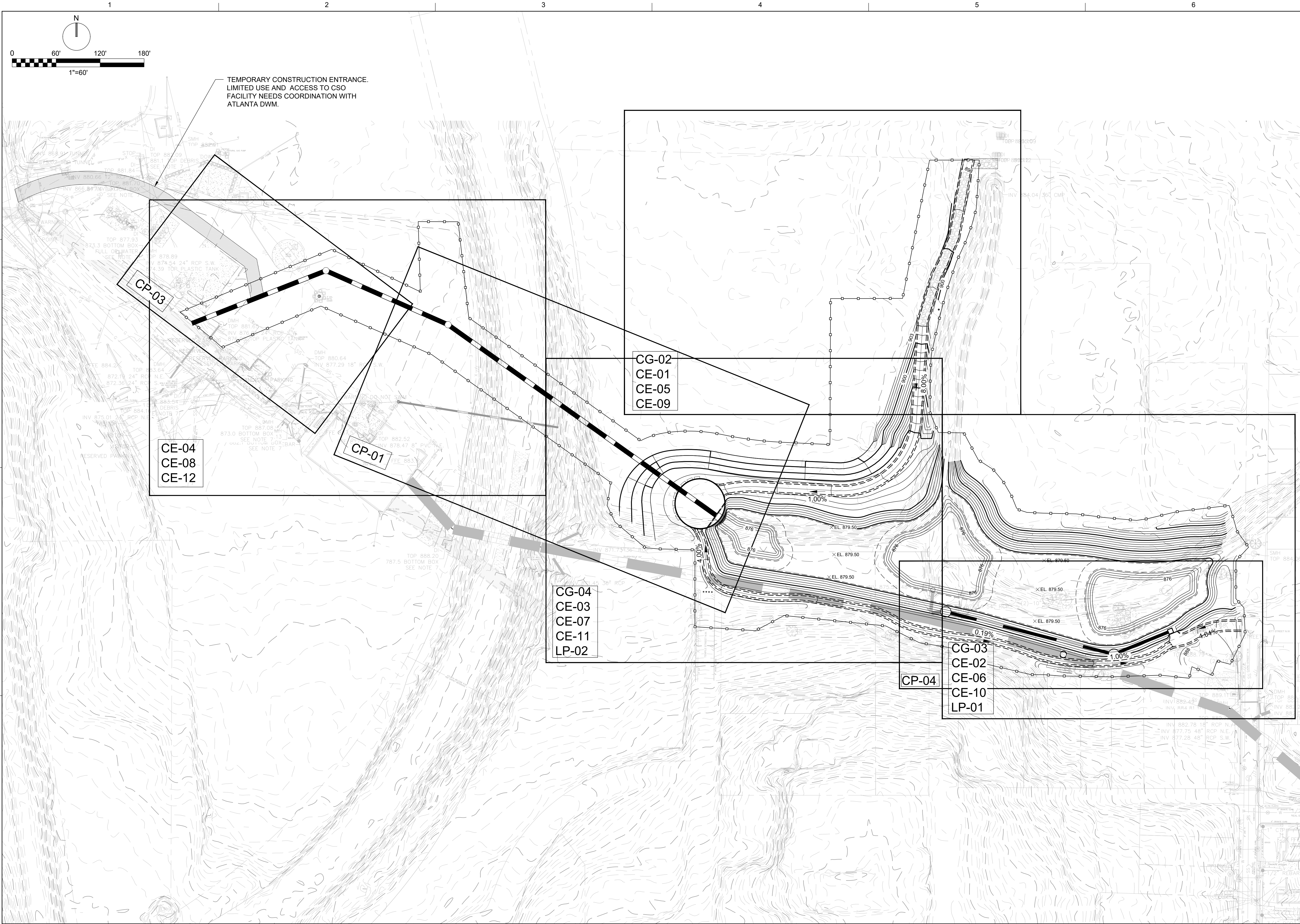
VERIFY SCALE

BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
0 1"

DATE FEBRUARY 2022  
PROJ EEX15593  
DWG G-01  
SHEET 1 of 50

[illegible]





NO.	DATE	DR	CHK	REVISION	APVD	BY	APVD
		V JARRIN	J MILLER	C BASNETT		V JARRIN	









1. SEE COMPACTION RESTRICTIONS WITHIN THE SEWER PROTECTION ZONE IN SHEET G-03.

EXISTING 12" SANITARY SEWER  
CONTRACTOR SHALL VERIFY LOCATION  
AND DEPTH PRIOR TO CONSTRUCTION.  
CONTRACTOR IS RESPONSIBLE FOR  
PROTECTING THE EXISTING SANITARY  
SEWER DURING CONSTRUCTION.

CONTRACTOR SHALL COORDINATE WITH  
ATLDOT FOR INSTALLATION OF SIGNAGE  
REFLECTING 2 AXLE VEHICLE LIMITS AND  
VEHICLE WEIGHT LIMIT OF 33 TONS.  
(MAXIMUM WHEEL BASE IS 36.5')

VEHICULAR GRAVEL PATH  
12' WIDE (TYP)

MATCHLINE, SEE SHEET CG-04

[illegible]

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
093 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

**ch2m** **ROHADF** **FOX**  
A JOINT VENTURE

CIVIL  
GRADING PLAN  
SHEET 1 OF 3


1" = 20'

---

VERIFY SCALE

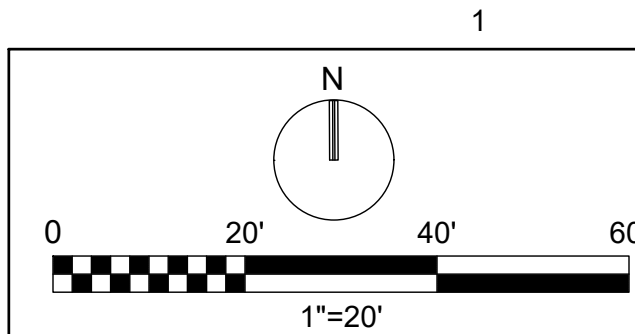
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BAR IS ONE INCH ON  
ORIGINAL DRAWING

0 

DATE	FEBRUARY 2022
PROJ	EEXI5593
DWG	CG-02
SHEET	7 of 50

100% DESIGN DOCUMENTS



1. SEE COMPACTION RESTRICTIONS WITHIN THE SEWER PROTECTION ZONE IN SHEET G-03.

[illegible]

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
093 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

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**ch2m.** **ROHADFOX**  
A JOINT VENTURE

CIVIL  
GRADING PLAN  
SHEET 2 OF 3

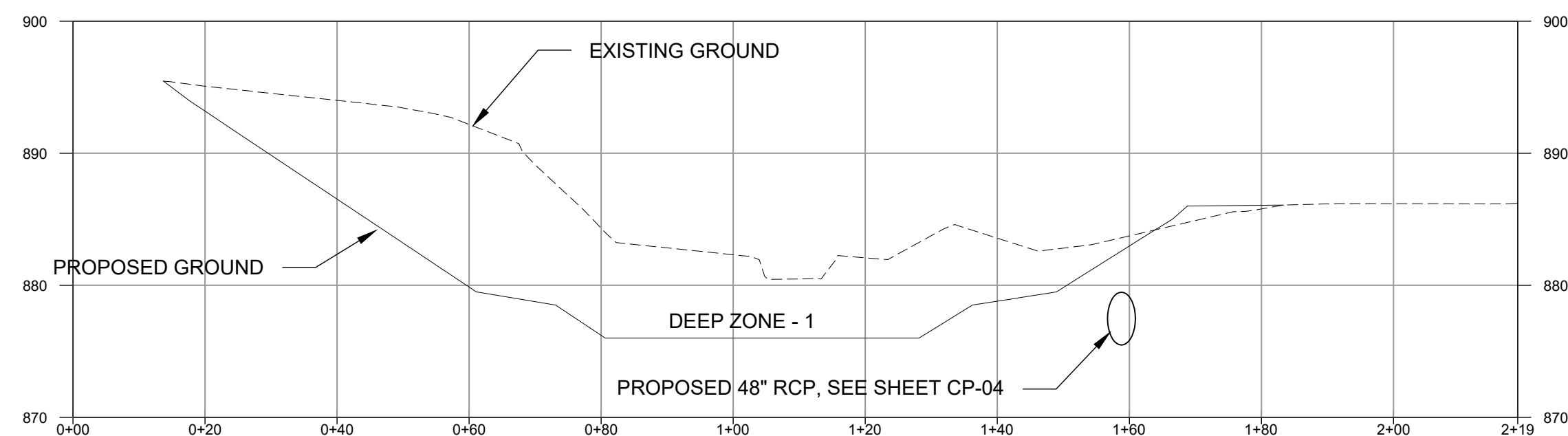
1" = 20'

VERIFY SCALE

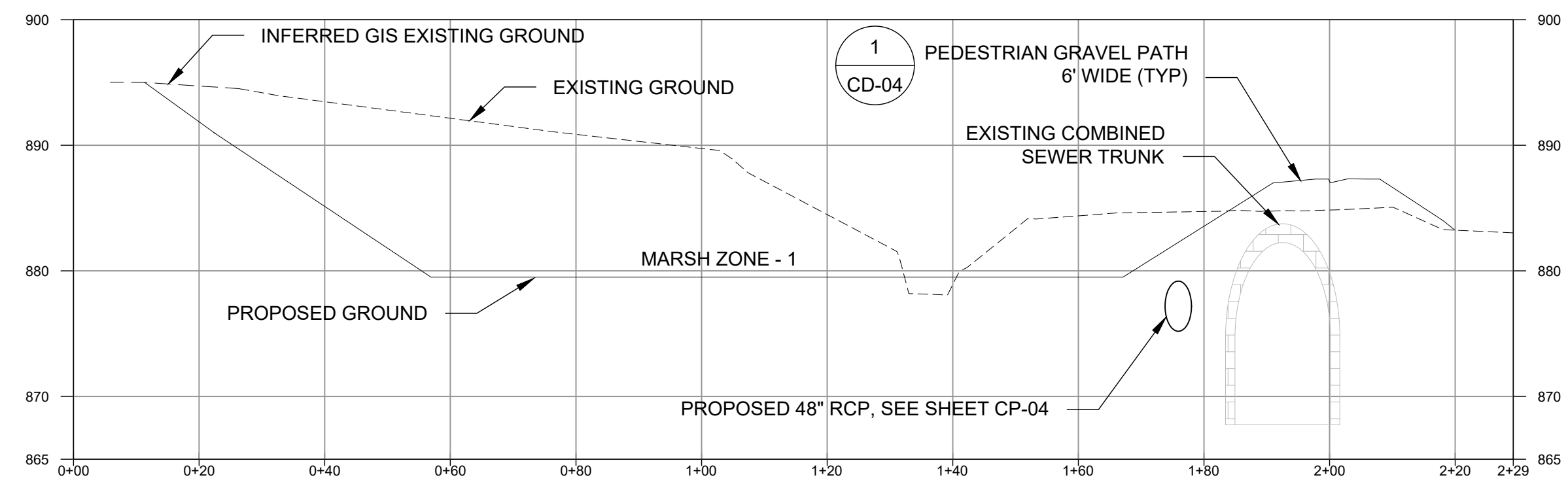
DATE	FEBRUARY 2022
PROJ	EEXI5593
DWG	CG-03
SHEET	8 of 50

100% DESIGN DOCUMENTS	3	3	2
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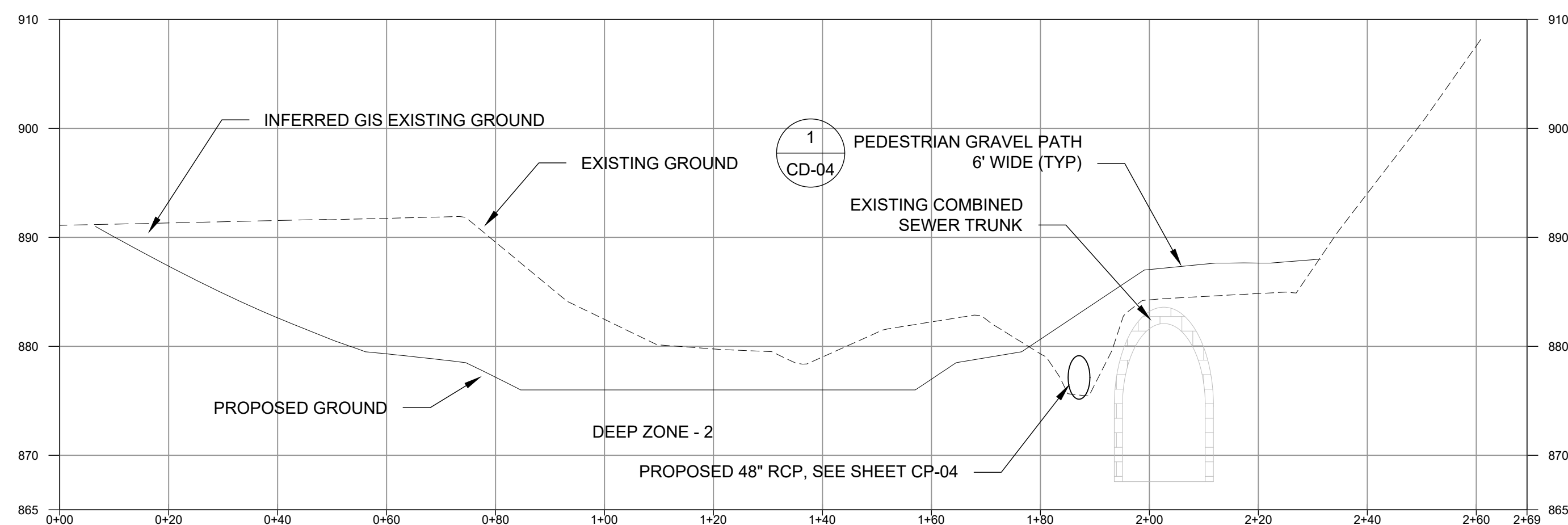




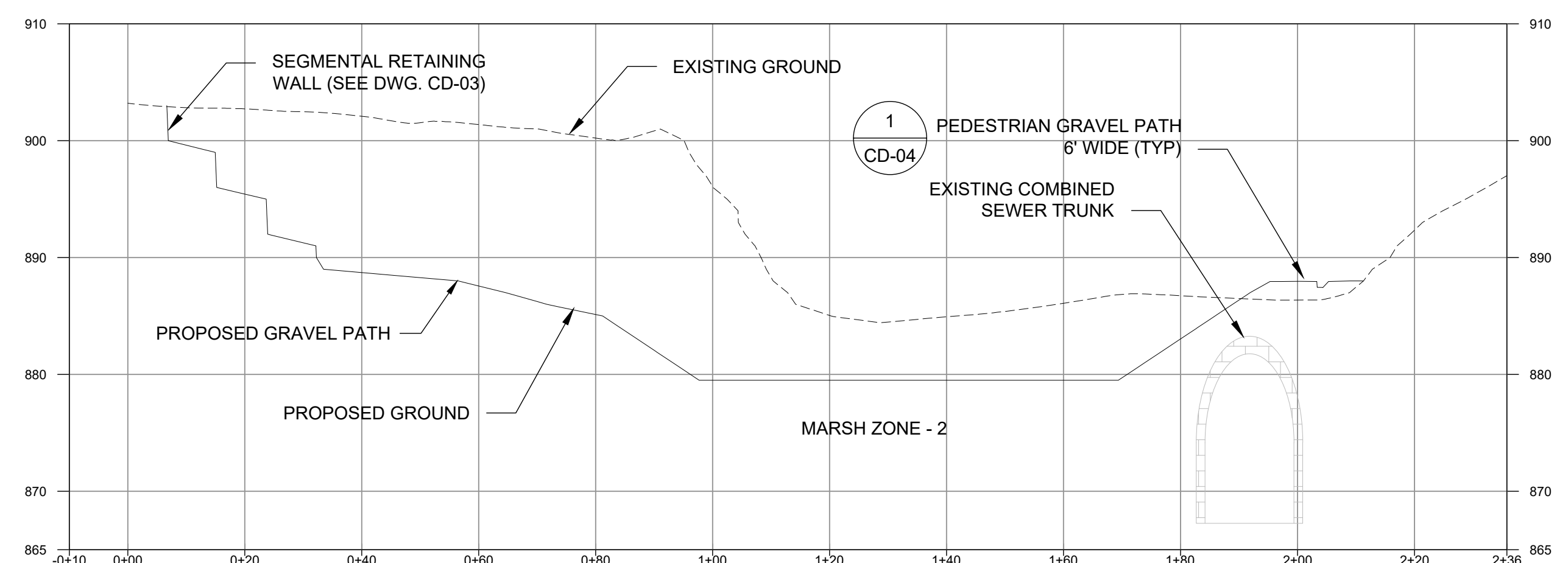
CROSS SECTION A - A'



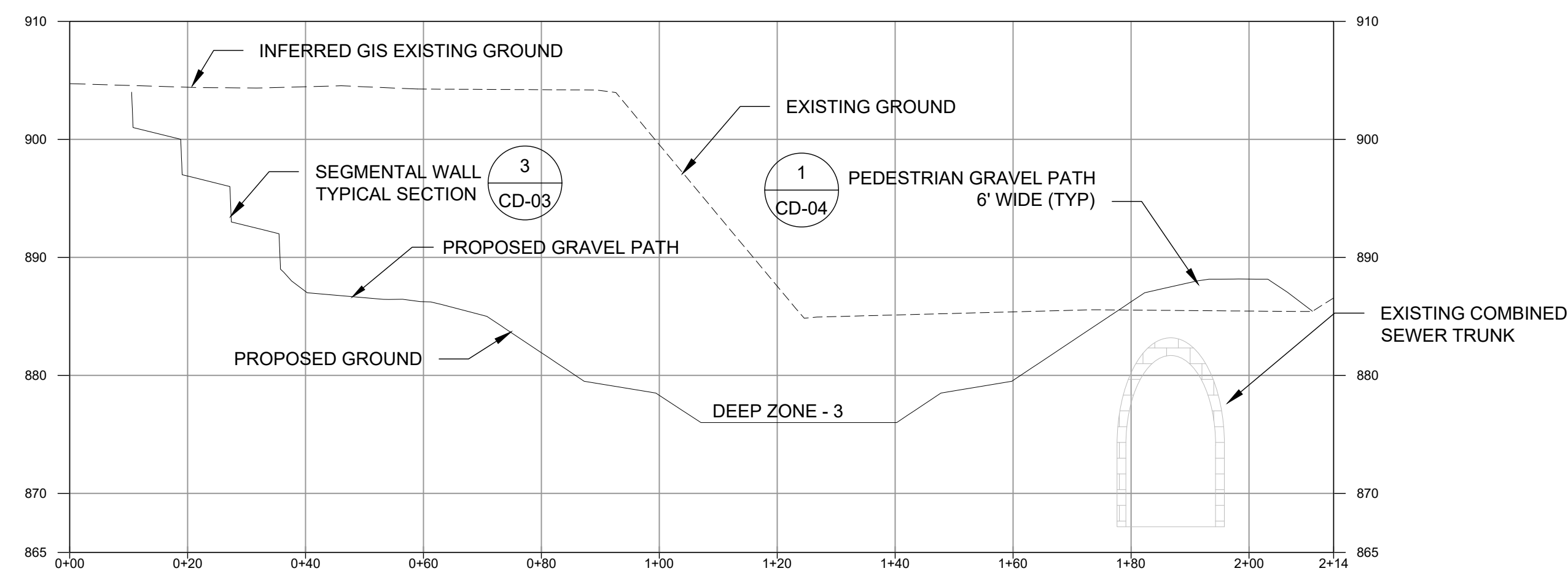
CROSS SECTION B - B'



CROSS SECTION C - C'



CROSS SECTION D - D'



CROSS SECTION E - E'

[illegible]

CONSTRUCTED WETLANDS  
093 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

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# 100% DESIGN DOCUMENTS

**ch2m:** **ROHADFOX**  
A JOINT VENTURE

SITE CROSS SECTION  
SHEET 1 OF 2

1" = 20' HORZ./1" = 2' VERT. D

### VERIFY SCALE

1/8" = 1" ON  
ORIGINAL DRAWING

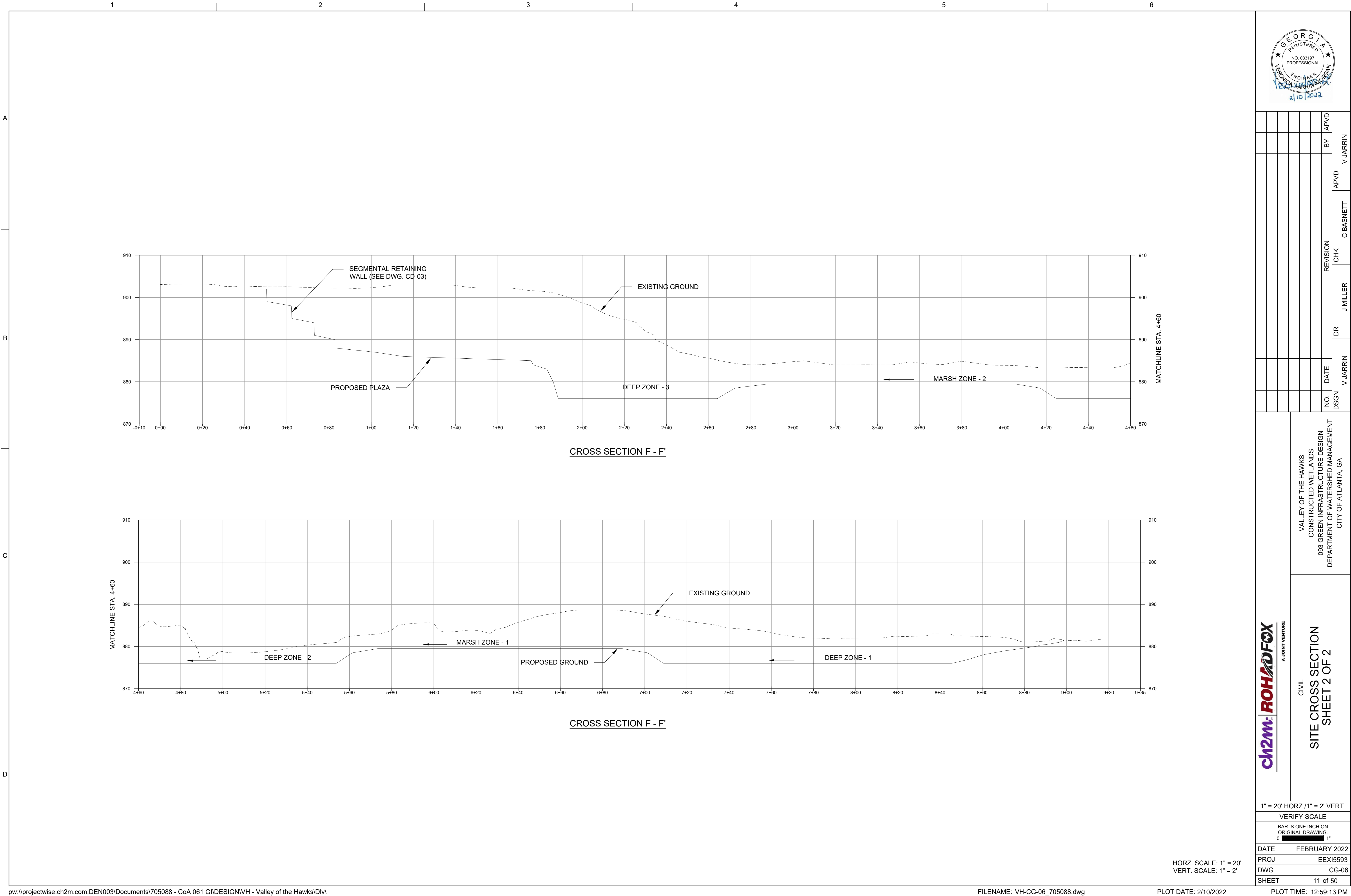
0 1"

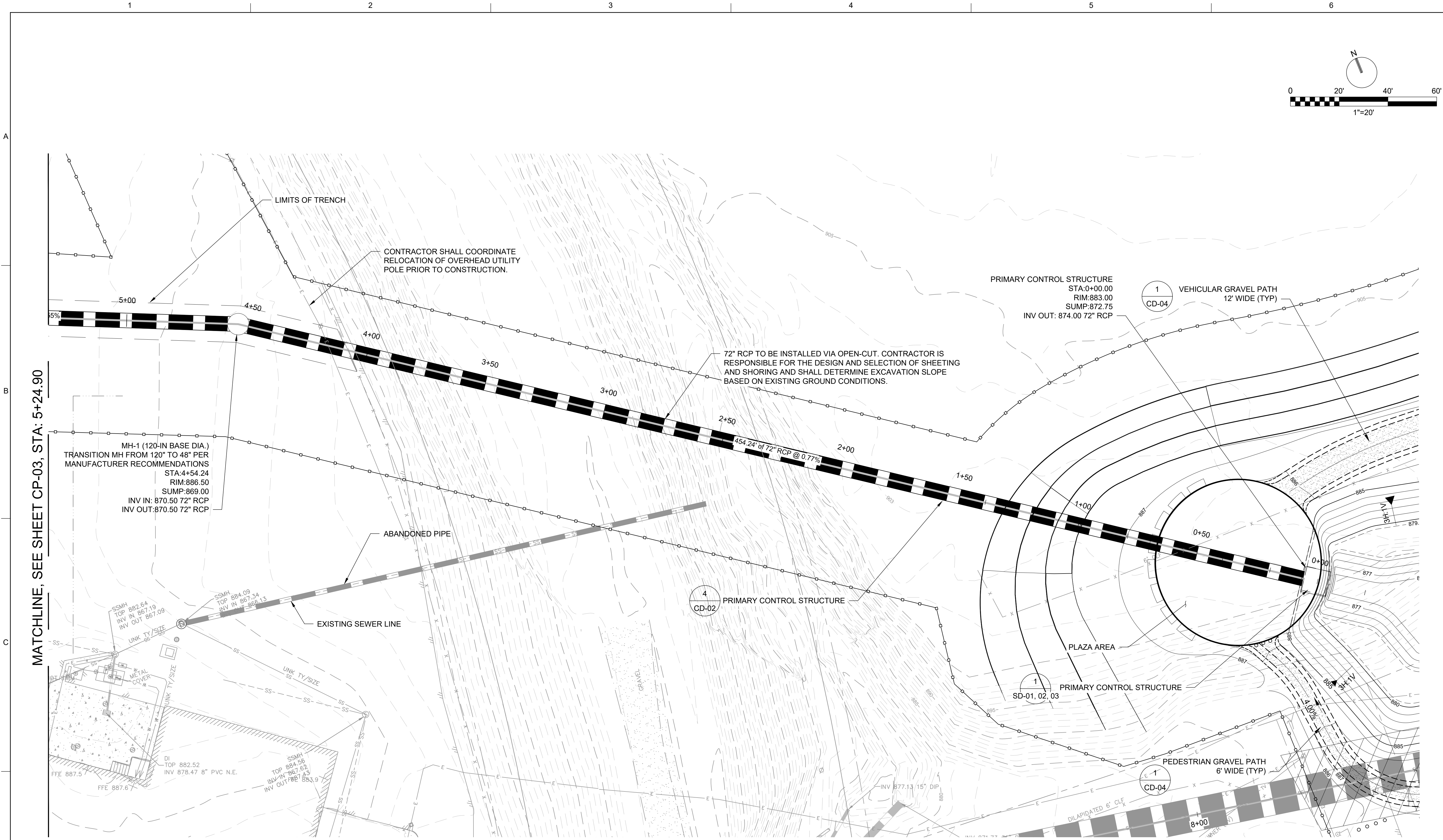
DATE	FEBRUARY 2022
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PROJ	EEXI5593	%
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OWG	CG-05
-----	-------

HORZ. SCALE: 1" = 20'  
VERT. SCALE: 1" = 2'





GEORGIA  
REGISTERED  
ENGINEER  
LEONICA JARRIN  
2/10/2022

NO. 033197  
PROFESSIONAL

APVD

BY

V JARRIN

REVISION

CHK

C BASNETT

DATE

DR

J MILLER

NO.

DSGN

V JARRIN

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
083 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

CIVIL

72" STORMWATER PIPE PLAN  
SHEET 1 OF 3

1" = 20'

VERIFY SCALE

BAR IS ONE INCH ON  
ORIGINAL DRAWING. 1"

DATE

FEBRUARY 2022

PROJ

EEXI5593

DWG

CP-01

SHEET

12 of 50

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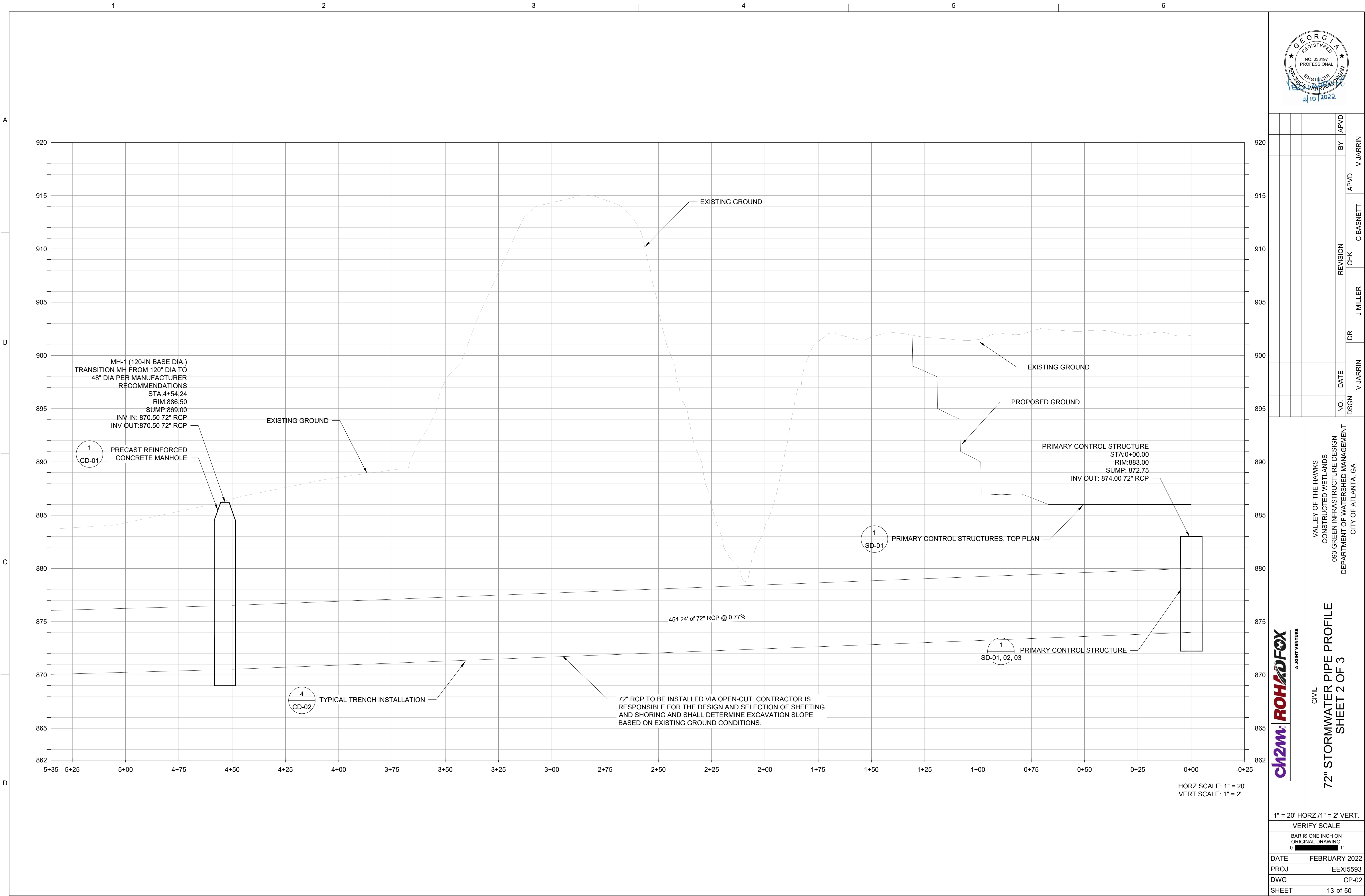
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pw:\projectwise.ch2m.com:DEN003\Documents\705088 - CoA 061 G\DESIGN\NH - Valley of the Hawks\DIV

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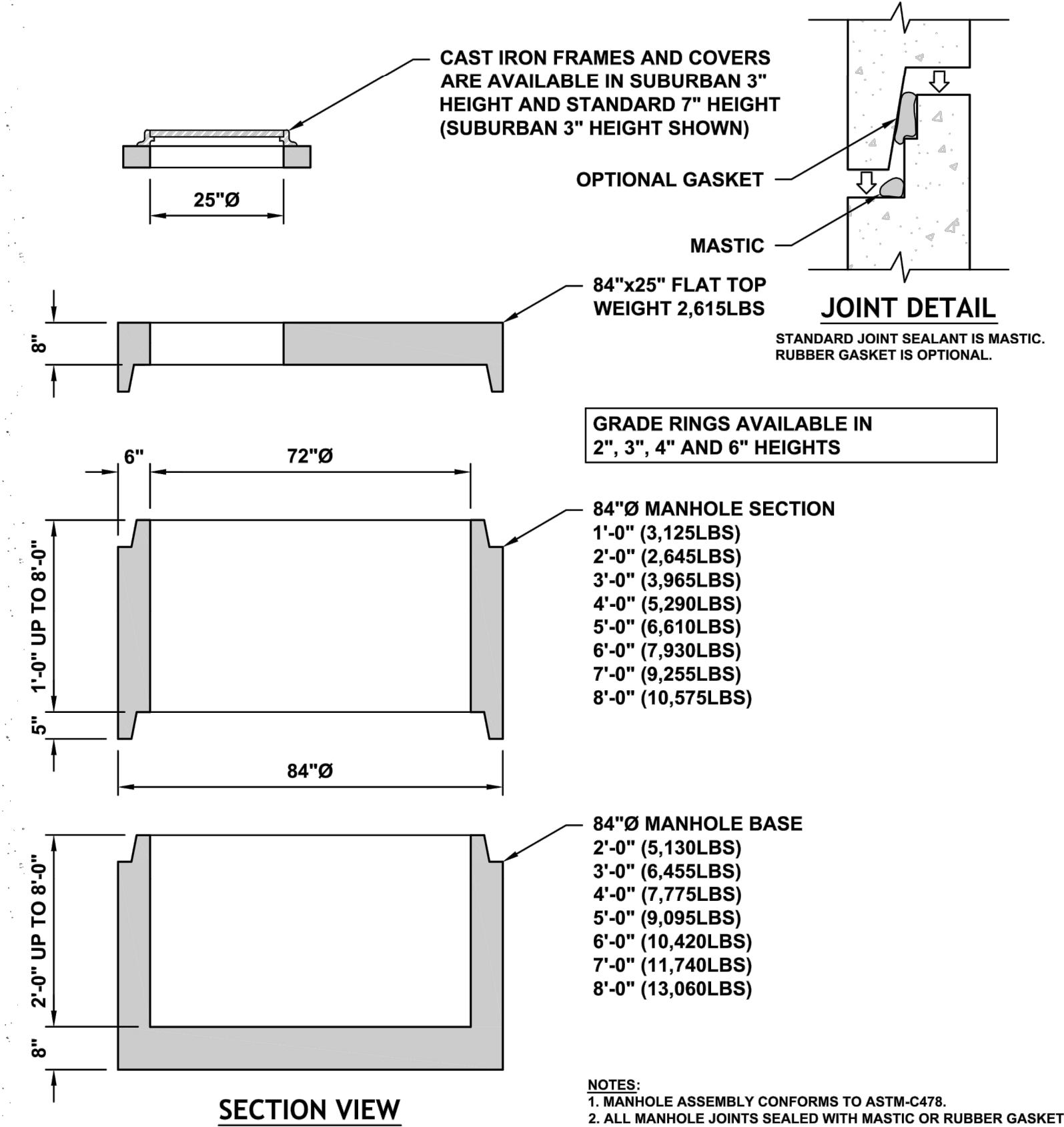
PLOT DATE: 2/10/2022

PLOT TIME: 1:01:33 PM









# PRECAST REINFORCED CONCRETE MANHOLE

SCALE: NTS

CP-01 TO CP-04

## 60 MANHOLE - WITH FLAT TOP


SCALE: NTS

[illegible]

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
093 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT

CIVIL  
CIVIL DETAILS  
SHEET 1 OF 4

**ch2m.**<sup>TM</sup> **ROHADFOX**

NOT TO SCALE	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"	
DATE	FEBRUARY 2022
PROJ	EEXI5593
DWG	CD-01
SHEET	16 of 50







1. ORGANIC-LOCK PATHWAY AGGREGATE MUST ALWAYS BE PRE-WET FOR INSTALLATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. SEE SECTIONS 02775 AND 02776. NOTE COMPACTION RESTRICTIONS FOR SEWER PROTECTION ZONE.
3. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
4. DO NOT SCALE DRAWINGS.
5. THIS DETAIL IS FOR INFORMATION PURPOSES ONLY. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT, BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 2643-001A REFERENCE NUMBER 4928-032 AND REFERENCE NUMBER 4928-032.

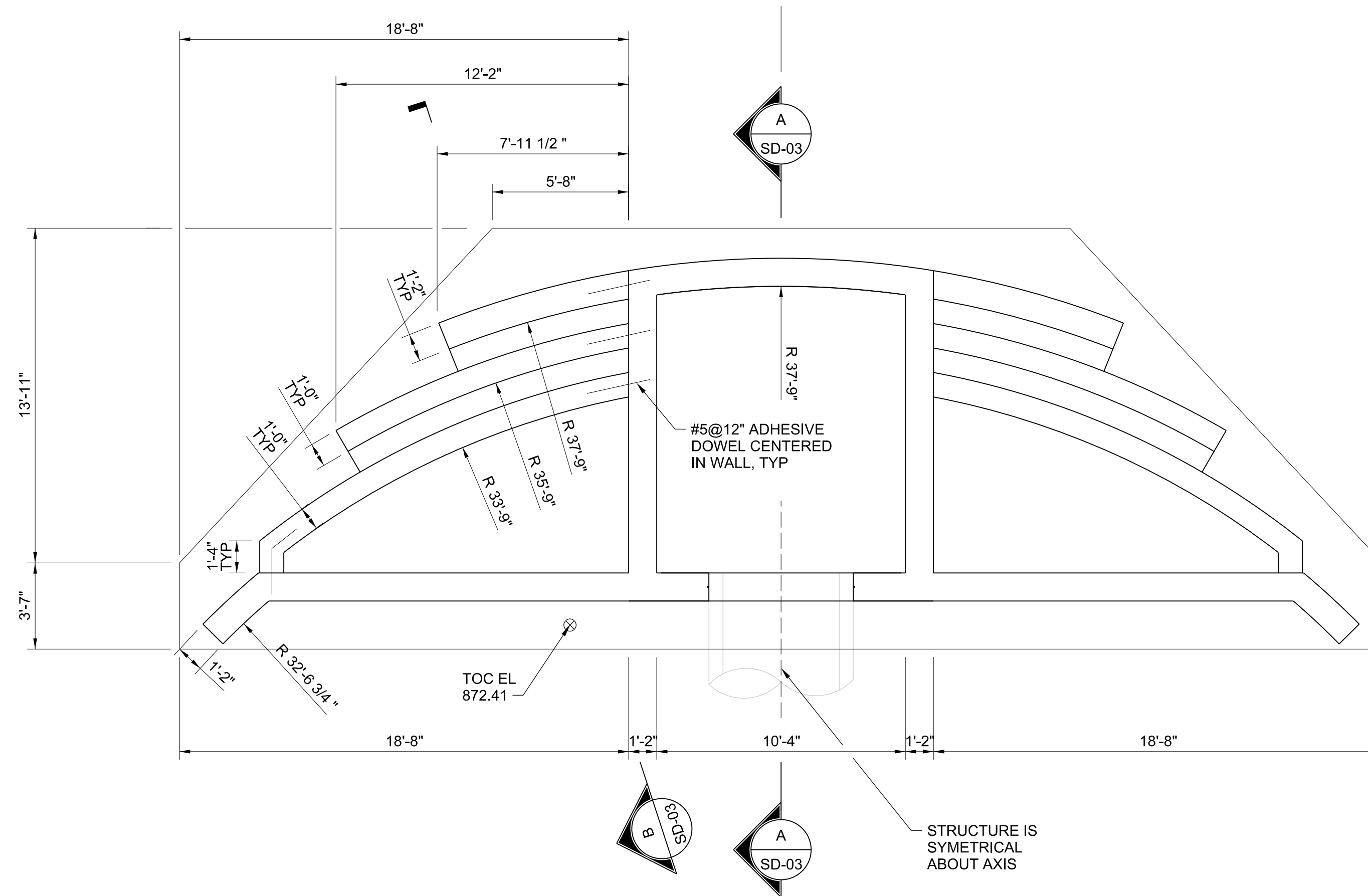


- NOTES:
1. CHANNEL INLETS SHALL BE STABILIZED BY INSTALLING BIOD-PILLOWS OVER PLACED IMPORTED TOPSOIL, STAKED AS SHOWN, AND PLANTED WITH NATIVE PLUGS.
2. BIOD-PILLOWS SHALL BE 1" - 2" THICK COIR PADS ENCASED IN BIOD-MAT 40 COIR BLANKET, IN 3' WIDE X 15' LONG UNITS. BIOD-PILLOWS ARE AVAILABLE FROM ROLANKA.COM.
3. DEAD STOUT STAKES SHALL BE UNTREATED PINE OR HARDWOOD WEDGE, 1" X 1.25" X 18" MIN. STAKE PER PATTERN SHOWN, LEAVING THE TOP 3" OF EACH STAKE EXPOSED ABOVE GROUND.
4. PREPARE CHANNEL INLET SURFACE BY GRADING PER CG DRAWINGS, INCLUDING PLACEMENT OF 6" TOPSOIL.
5. INSTALL BIOD-PILLOWS FROM UPSTREAM TO DOWNSTREAM. CENTER THE 15' LENGTH OF EACH BIOD-PILLOW ACROSS THE 12' WIDE CHANNEL INLET, WITH THE BIOD-PILLOW'S 3' DIMENSION PERPENDICULAR TO FLOW. STAKE THE BIOD-PILLOW AS SHOWN. FOR SUBSEQUENT BIOD-PILLOWS, ABUT THE NEXT BIOD-PILLOW CLOSELY TO THE STAKED UPSTREAM BIOD-PILLOW, LEAVING NO EXPOSED SOIL BETWEEN BIOD-PILLOWS.
6. OVERLAP THE ENDS OF THE BIOD-PILLOW ON THE CHANNEL SLOPES WITH EROSION CONTROL BLANKET. REFER TO CE DRAWINGS FOR TYPICAL EROSION CONTROL BLANKET INSTALLATION.
7. INSERT NATIVE PLUGS ACROSS THE 12' CHANNEL INLET BOTTOM, THROUGH THE INSTALLED BIOD-PILLOWS. MINIMIZE SNIPPED OPENINGS TO TOP COIR BLANKET. REFER TO LANDSCAPING PLANS (LS-00).

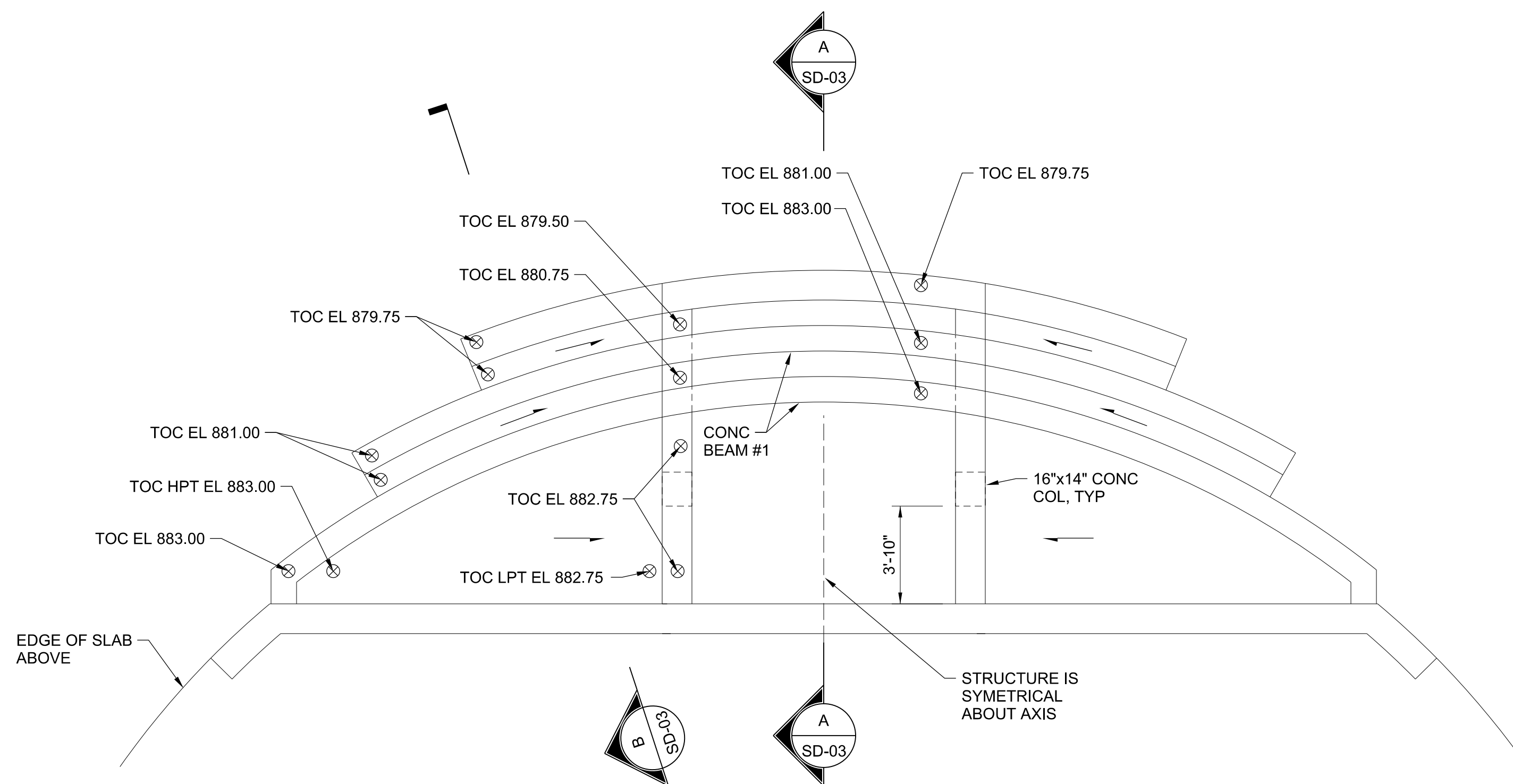
## CHANNEL INLET LOCATION AND DIMENSIONS







FOUNDATION PLAN @ 872.41

$$\overline{1/4'' = 1' - 0'}$$


## INTERMEDIATE PLAN

$$\overline{1/4'' = 1' - 0'}$$

GENERAL SHEET NOTES	
1.	FOR GENERAL STRUCTURAL NOTES, SEE DRAWING SD-00.

[illegible]


JACOBS ENGINEERING GROUP INC.  
10 10TH STREET, SUITE 1400  
ATLANTA, GA 30309  
GA LIC # PEF000350 (EXP 6/30/2022)

VALLEY OF THE HAWKS STREAM  
AND FLOODPLAIN RESTORATION PROJECT  
061 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

## PRIMARY CONTROL STRUCTURES PLANS

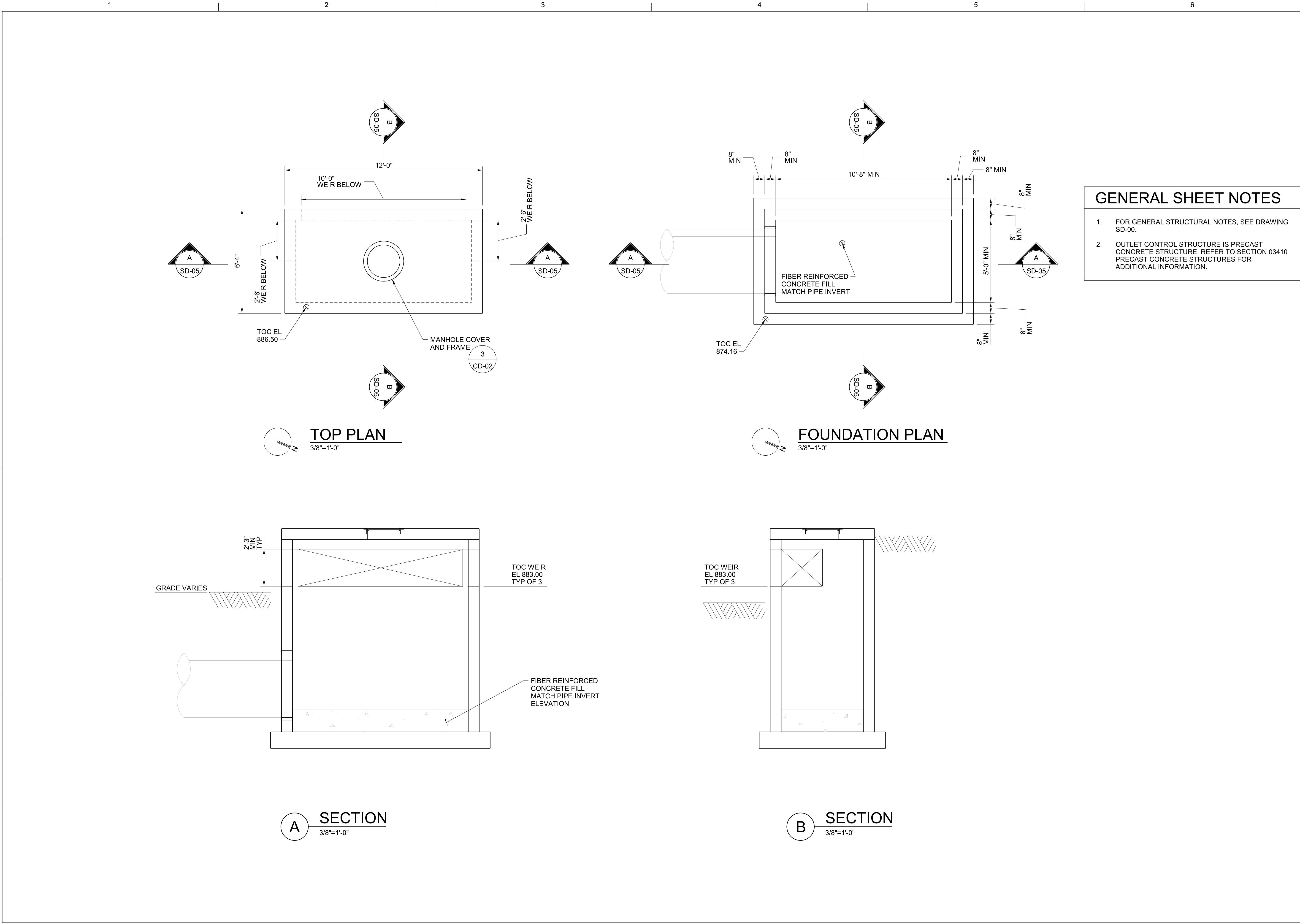
	R. ROELKEWOLFE	J. THORNTON	D. EVENSON	R. ROELKEWOLFE
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1	3	21	100% DESIGN DOCUMENTS
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<p align="center"><b>VERIFY SCALE</b></p> <p align="center">BAR IS ONE INCH ON ORIGINAL DRAWING.</p> <p align="center">0  1"</p>	
DATE	JULY 2021
PROJ	EEXI 5593
DWG	SD-02
SHEET	22 of 50







GENERAL SHEET NOTES

- FOR GENERAL STRUCTURAL NOTES, SEE DRAWING SD-00.
- OUTLET CONTROL STRUCTURE IS PRECAST CONCRETE STRUCTURE. REFER TO SECTION 03410 PRECAST CONCRETE STRUCTURES FOR ADDITIONAL INFORMATION.

JACOBS ENGINEERING GROUP INC.  
10 10TH STREET, SUITE 1400  
ATLANTA, GA 30309  
GA LIC # PEF000350 (EXP 6/30/2022)

**ch2m** **ROHAFox**  
A JOINT VENTURE

VALLEY OF THE HAWKS STREAM  
AND FLOODPLAIN RESTORATION PROJECT  
061 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

OUTLET CONTROL STRUCTURE  
PLAN AND SECTIONS

VERIFY SCALE

BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
0 1"

DATE	JULY 2021
PROJ	EEXI 5593
DWG	SD-05
SHEET	25 of 50



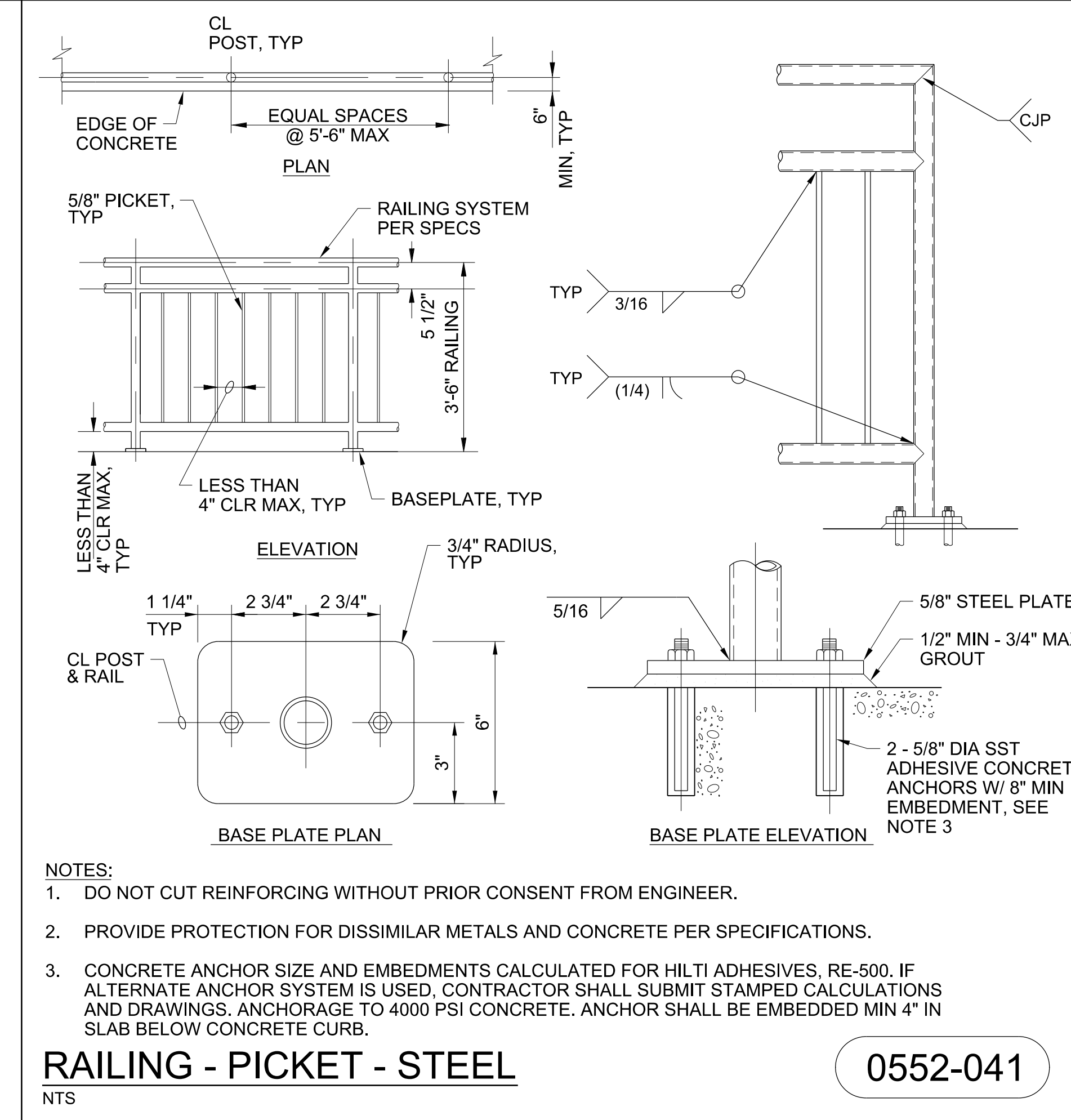
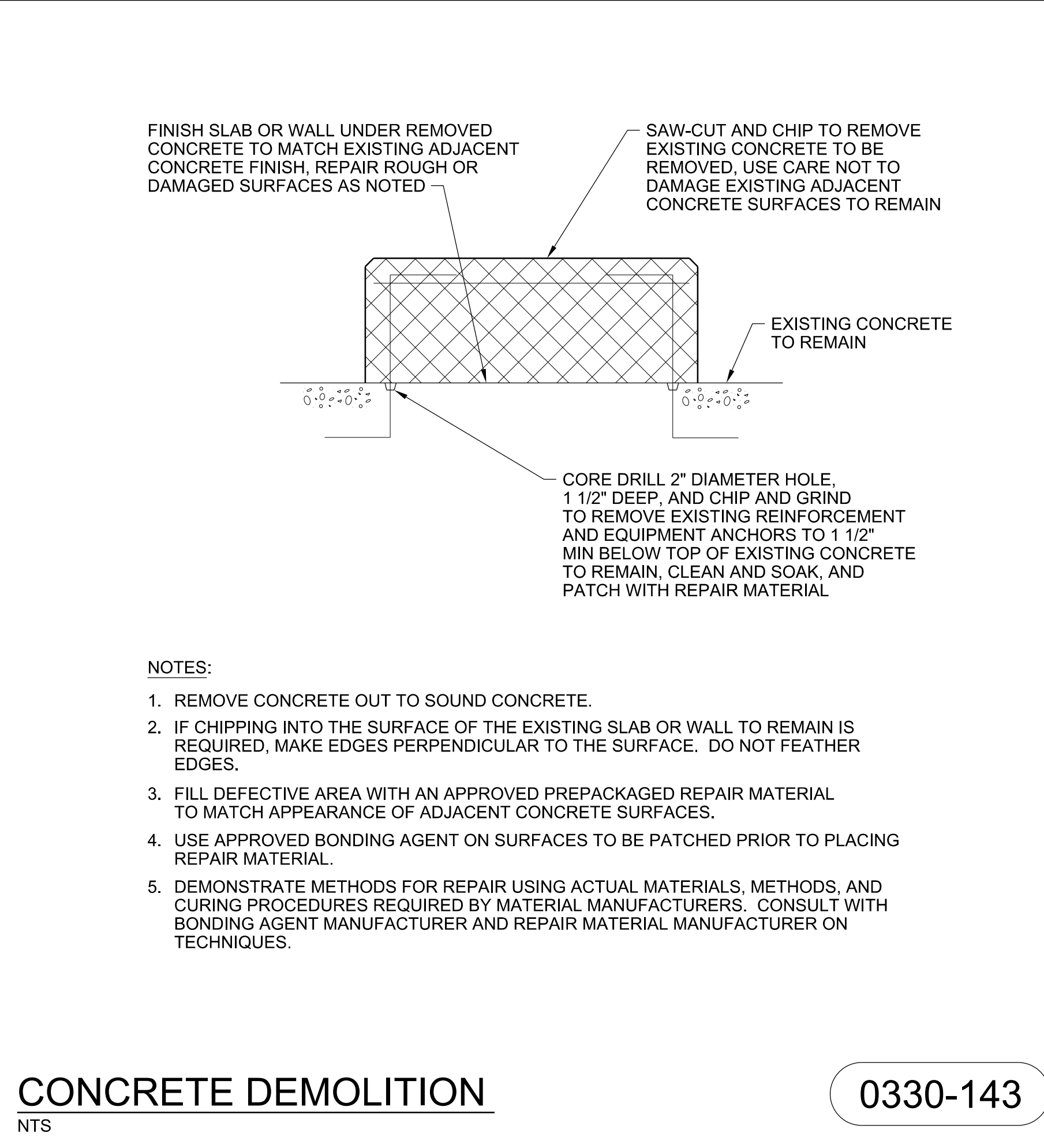
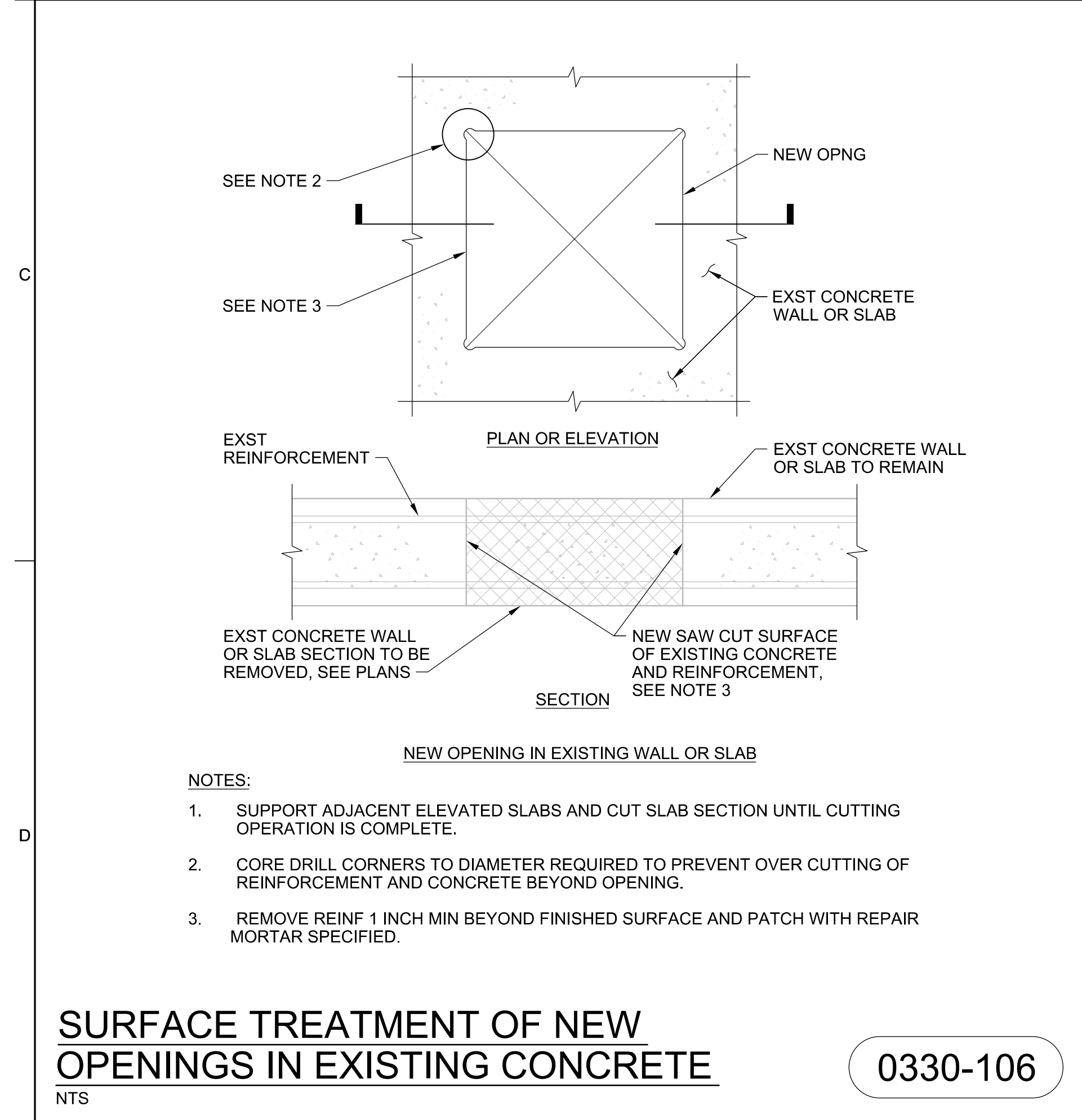
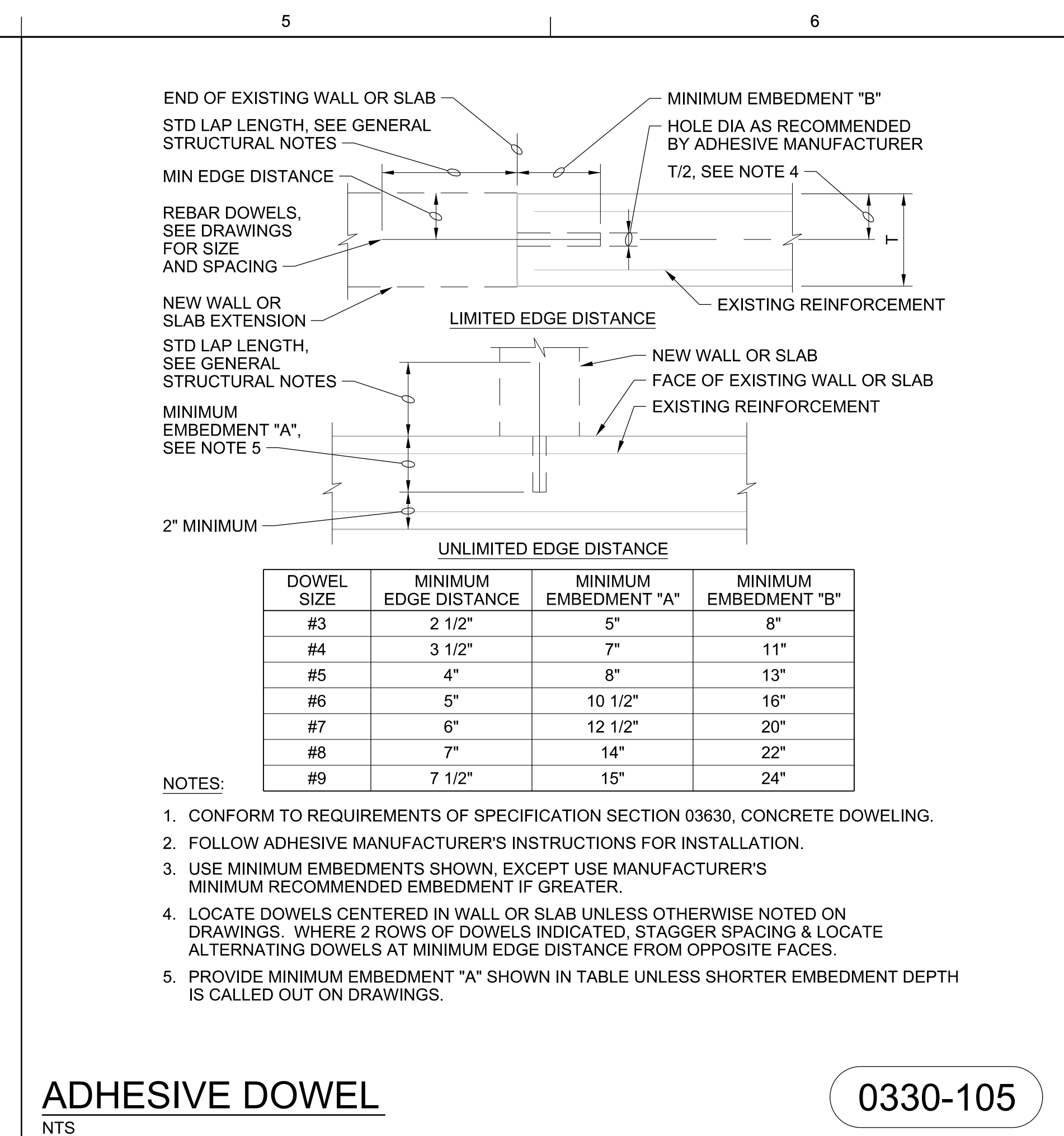
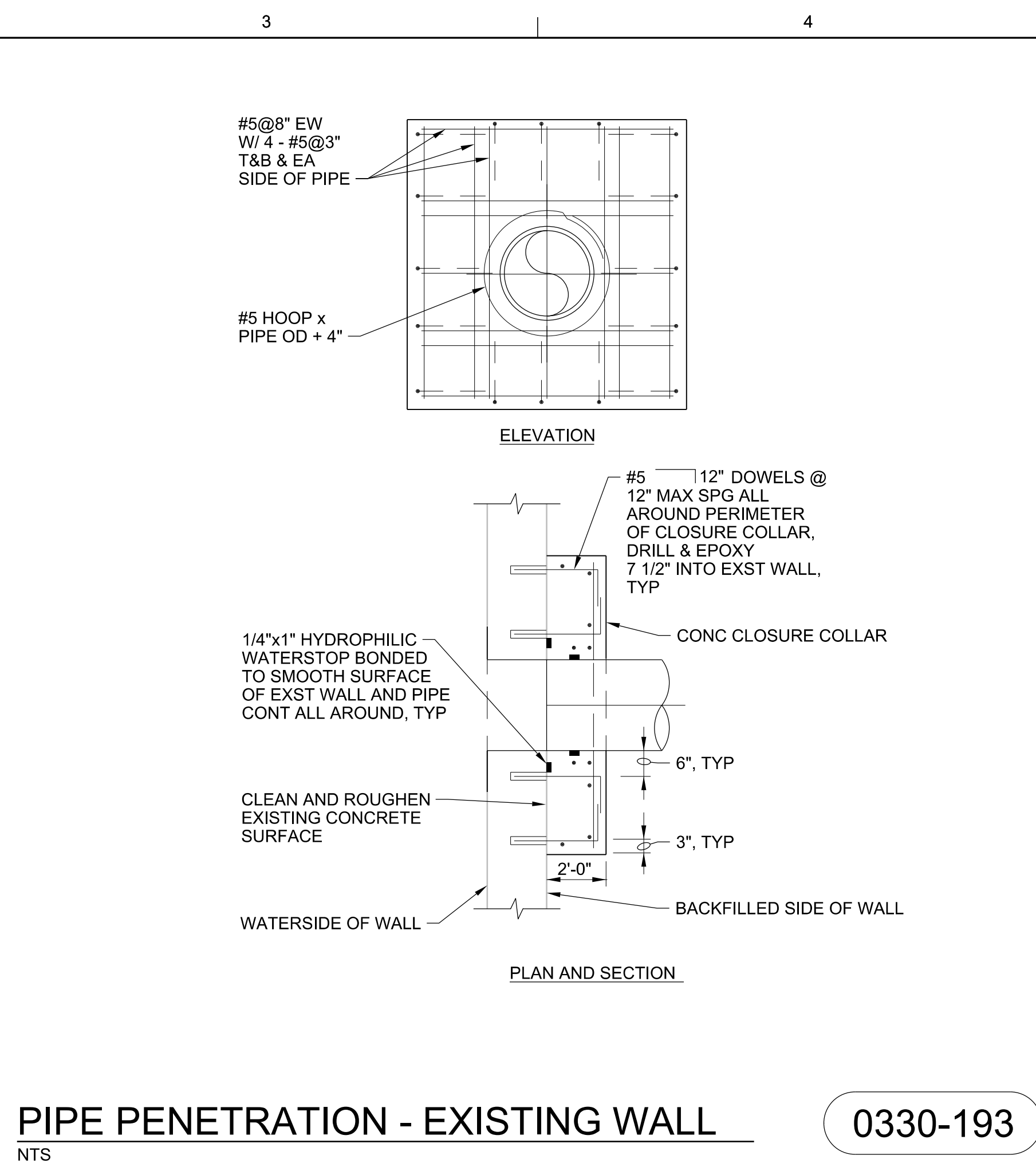
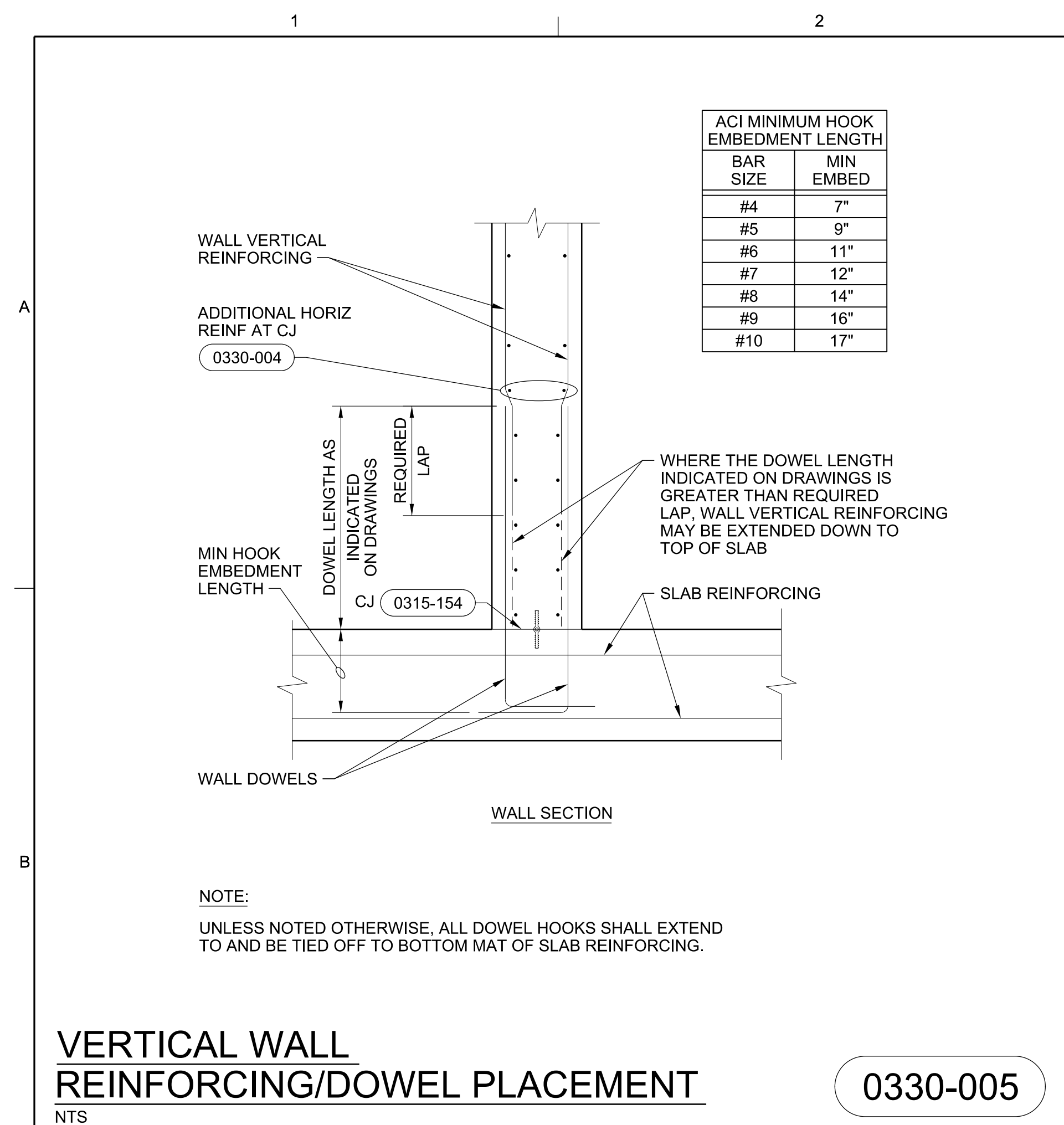
NO.	DATE	REVISION	BY	APVD
DSGN	R KOEKEMOER	CHK	J THORNTON	DR
			D EVERSON	APVD
			R KOEKEMOER	BY

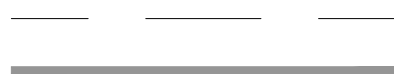

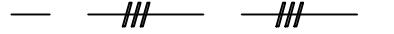
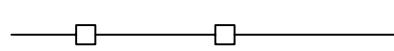





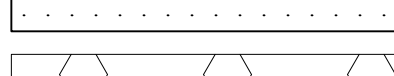



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- |   |   |
|---|---|
|   | 25', 75' STREAM BUFFERS                       |
|  | SOIL BOUNDARY                                 |
|  | DOUBLE ROW SILT FENCE                         |
|  | LIMIT OF DISTURBANCE / ORANGE BARRIER FENCING |
|  | APPROXIMATE 100-YR FLOODPLAIN                 |
|  | POINT OF WRESTED VEGETATION                   |
|  | STREAM BUFFER IMPACT AREA                     |
|  | CONSTRUCTION ENTRANCE                         |
|  | HAUL ROUTE                                    |
|  | STAGING AREA                                  |
|  | TREE TO BE PROTECTED                          |
|  | TREE TO BE REMOVED                            |
|  | URBAN LAND SOIL TYPE                          |

CONSTRUCTION ENTRANCE / EXIT 2  
N: 1371049.52  
E: 2219333.45  
LAT: N033.768856  
LONG: W084.420872

75' STREAM BUFFER

— 100 YEAR FLOOD PLAIN

- POINT OF  
WRESTED VEGETATION

LIMIT OF DISTURBANCE  
ORANGE BARRIER FENCING

MATCHLINE, SEE SHEET CE-03



GSWCC

Georgia Soil and Water  
Conservation Commission

Christopher S. Hamblen  
Level II Certified Design Professional

Certification Number: 000069253 Expires: 08/21/2022  
Issued: 08/20/2013

[illegible]

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
0093 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

ch2m: ROHADFOX  
A JOINT VENTURE

EROSION CONTROL  
INITIAL EROSION CONTROL PLAN  
SHEET 1 OF 4

$$1'' = 20'$$

## VERIFY SCALE

BAR IS ONE INCH ON  
ORIGINAL DRAWING.

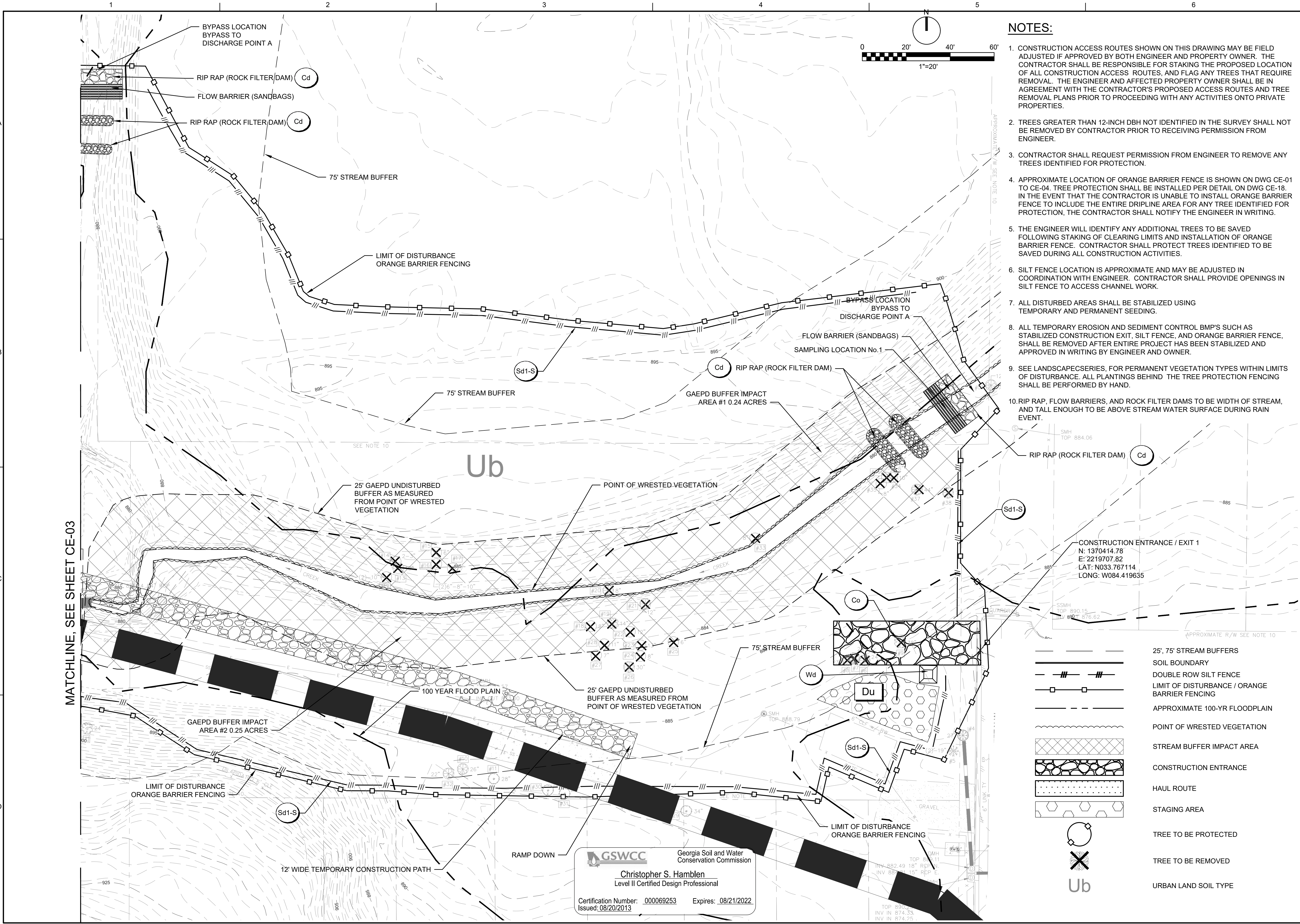
DATE	FEBRUARY 2022
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PROJ	FFX15593
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DWG	CE-01
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SHEET 28 of 50

2	3	1	100% DESIGN DOCUMENTS
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- NOTES:**
- CONSTRUCTION ACCESS ROUTES SHOWN ON THIS DRAWING MAY BE FIELD ADJUSTED IF APPROVED BY BOTH ENGINEER AND PROPERTY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE PROPOSED LOCATION OF ALL CONSTRUCTION ACCESS ROUTES, AND FLAG ANY TREES THAT REQUIRE REMOVAL. THE ENGINEER AND AFFECTED PROPERTY OWNER SHALL BE IN AGREEMENT WITH THE CONTRACTOR'S PROPOSED ACCESS ROUTES AND TREE REMOVAL PLANS PRIOR TO PROCEEDING WITH ANY ACTIVITIES ONTO PRIVATE PROPERTIES.
  - TREES GREATER THAN 12-INCH DBH NOT IDENTIFIED IN THE SURVEY SHALL NOT BE REMOVED BY CONTRACTOR PRIOR TO RECEIVING PERMISSION FROM ENGINEER.
  - CONTRACTOR SHALL REQUEST PERMISSION FROM ENGINEER TO REMOVE ANY TREES IDENTIFIED FOR PROTECTION.
  - APPROXIMATE LOCATION OF ORANGE BARRIER FENCE IS SHOWN ON DWG CE-01 TO CE-04. TREE PROTECTION SHALL BE INSTALLED PER DETAIL ON DWG CE-18. IN THE EVENT THAT THE CONTRACTOR IS UNABLE TO INSTALL ORANGE BARRIER FENCE TO INCLUDE THE ENTIRE DRIPLINE AREA FOR ANY TREE IDENTIFIED FOR PROTECTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING.
  - THE ENGINEER WILL IDENTIFY ANY ADDITIONAL TREES TO BE SAVED FOLLOWING STAKING OF CLEARING LIMITS AND INSTALLATION OF ORANGE BARRIER FENCE. CONTRACTOR SHALL PROTECT TREES IDENTIFIED TO BE SAVED DURING ALL CONSTRUCTION ACTIVITIES.
  - SILT FENCE LOCATION IS APPROXIMATE AND MAY BE ADJUSTED IN COORDINATION WITH ENGINEER. CONTRACTOR SHALL PROVIDE OPENINGS IN SILT FENCE TO ACCESS CHANNEL WORK.
  - ALL DISTURBED AREAS SHALL BE STABILIZED USING TEMPORARY AND PERMANENT SEEDING.
  - ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S SUCH AS STABILIZED CONSTRUCTION EXIT, SILT FENCE, AND ORANGE BARRIER FENCE, SHALL BE REMOVED AFTER ENTIRE PROJECT HAS BEEN STABILIZED AND APPROVED IN WRITING BY ENGINEER AND OWNER.
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  - RIP RAP, FLOW BARRIERS, AND ROCK FILTER DAMS TO BE WIDTH OF STREAM, AND TALL ENOUGH TO BE ABOVE STREAM WATER SURFACE DURING RAIN EVENT.

- LEGEND**
- 25', 75' STREAM BUFFERS
  - SOIL BOUNDARY
  - DOUBLE ROW SILT FENCE
  - LIMIT OF DISTURBANCE / ORANGE BARRIER FENCING
  - APPROXIMATE 100-YR FLOODPLAIN
  - POINT OF WRESTED VEGETATION
  - STREAM BUFFER IMPACT AREA
  - CONSTRUCTION ENTRANCE
  - HAUL ROUTE
  - STAGING AREA
  - TREE TO BE PROTECTED
  - TREE TO BE REMOVED
  - URBAN LAND SOIL TYPE

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 033197

NEONICA JARRIN

2/10/2022

DATE

FEBRUARY 2022

PROJ

EEX15593

DWG

CE-02

SHEET

29 of 50

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
083 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

EROSION CONTROL  
INITAL EROSION CONTROL PLAN  
SHEET 2 OF 4

1" = 20'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

DATE

FEBRUARY 2022

PROJ

EEX15593

DWG

CE-02

SHEET

29 of 50

100% DESIGN DOCUMENTS

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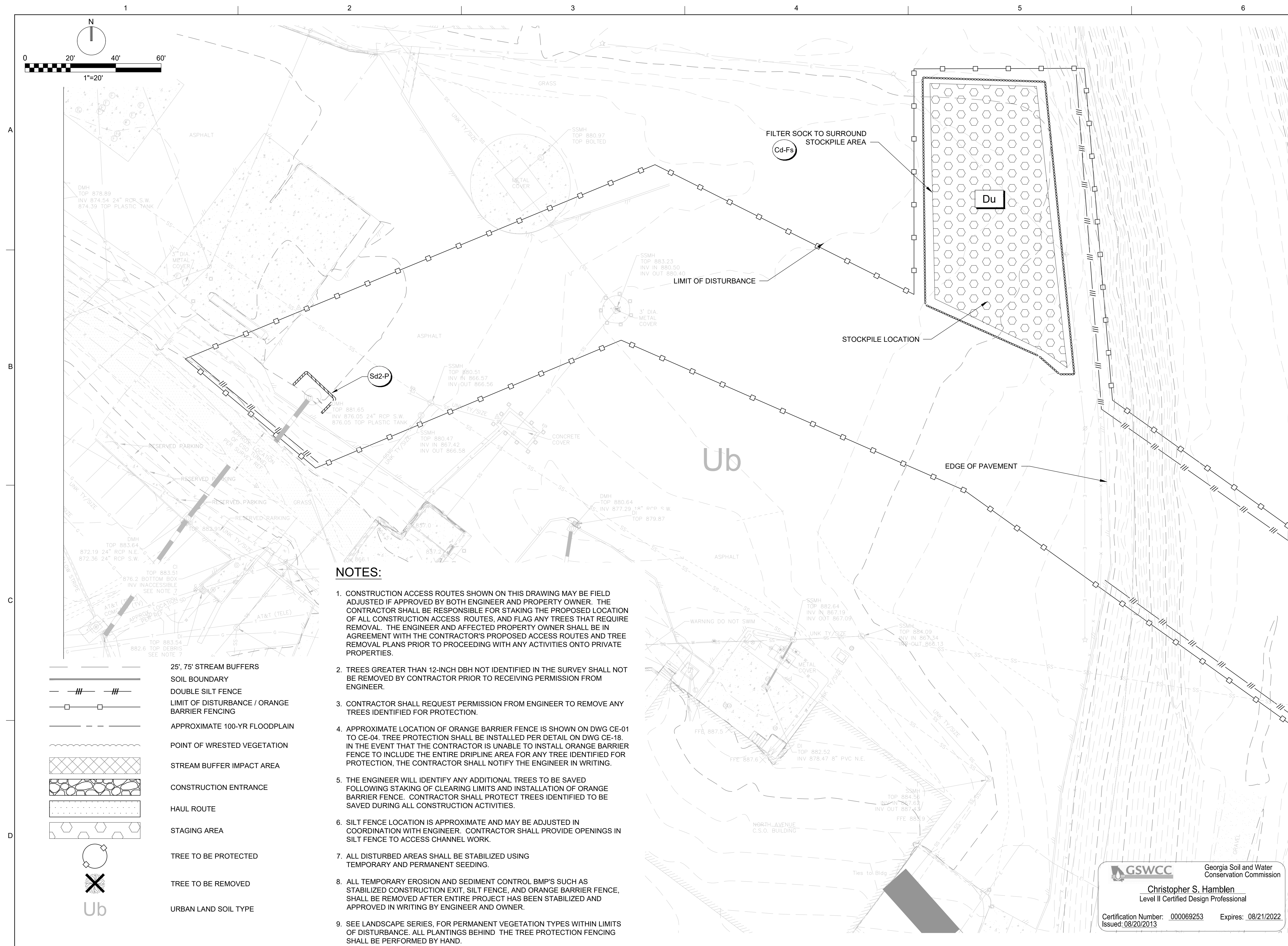
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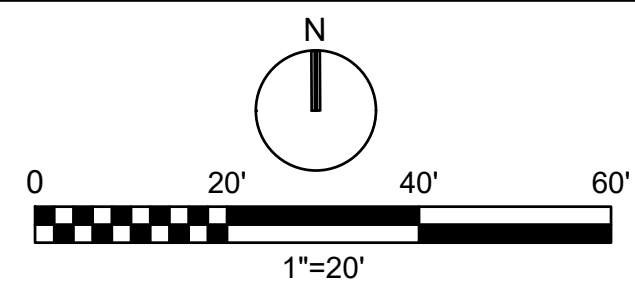
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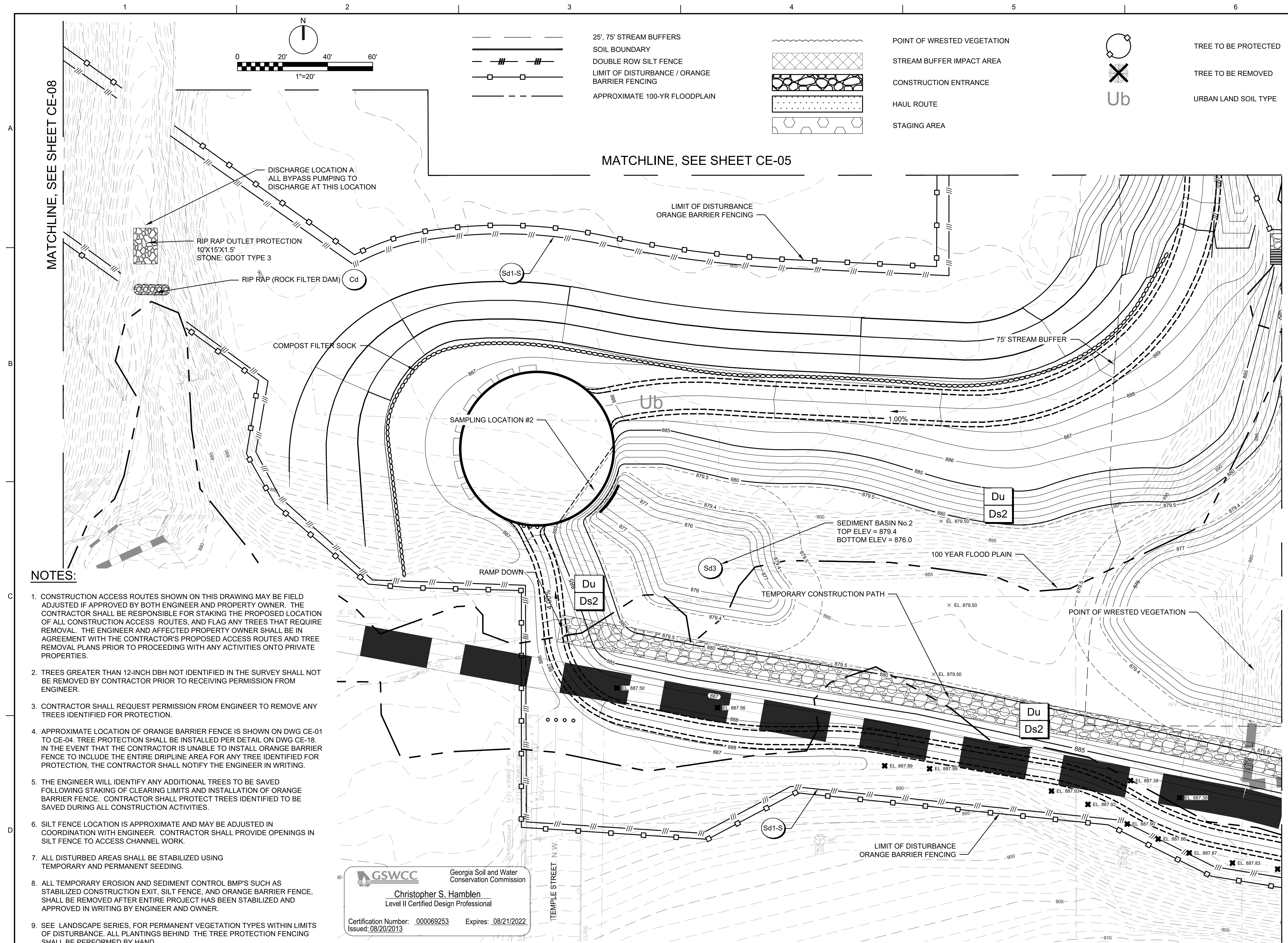
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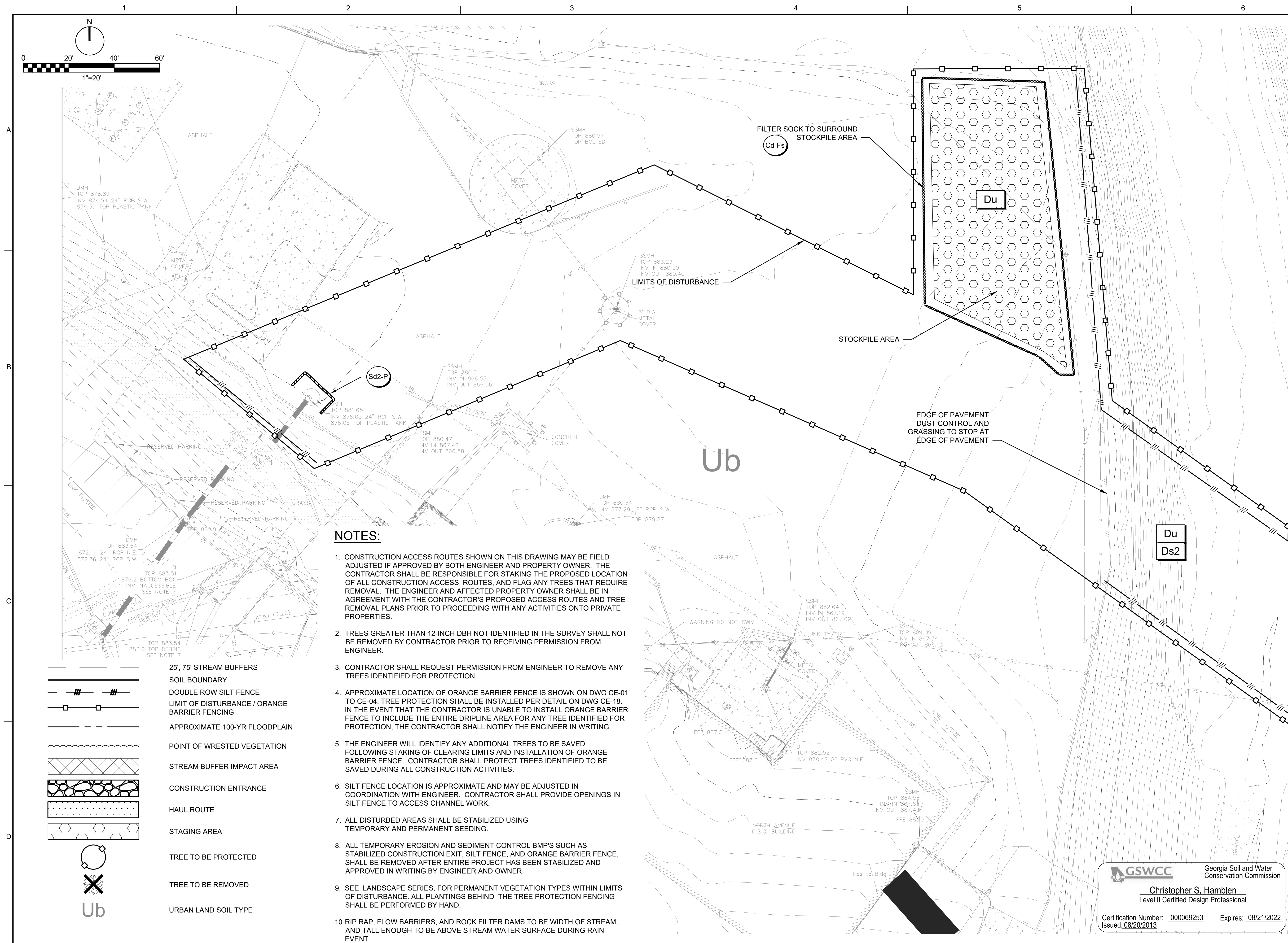
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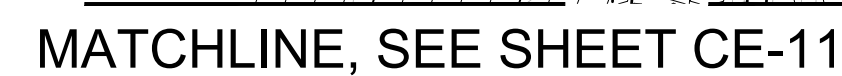
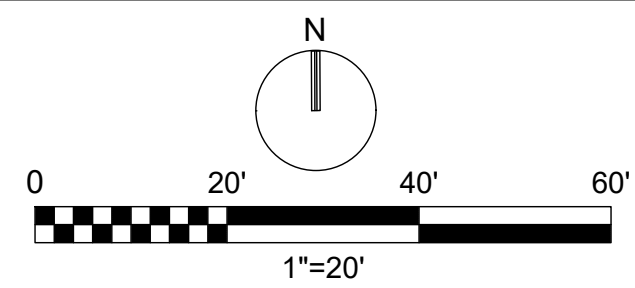
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# 100% DESIGN DOCUMENTS

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[illegible]

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
093 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA GA

ch2m | **ROHADF**  
A JOINT VENTURE

---

EROSION CONTROL  
FINAL EROSION CONTROL PLAN  
SHEET 1 OF 4

$$1'' = 20'$$

## VERIFY SCALE

BAR IS ONE INCH ON  
ORIGINAL DRAWING.

DATE	FEBRUARY 2022
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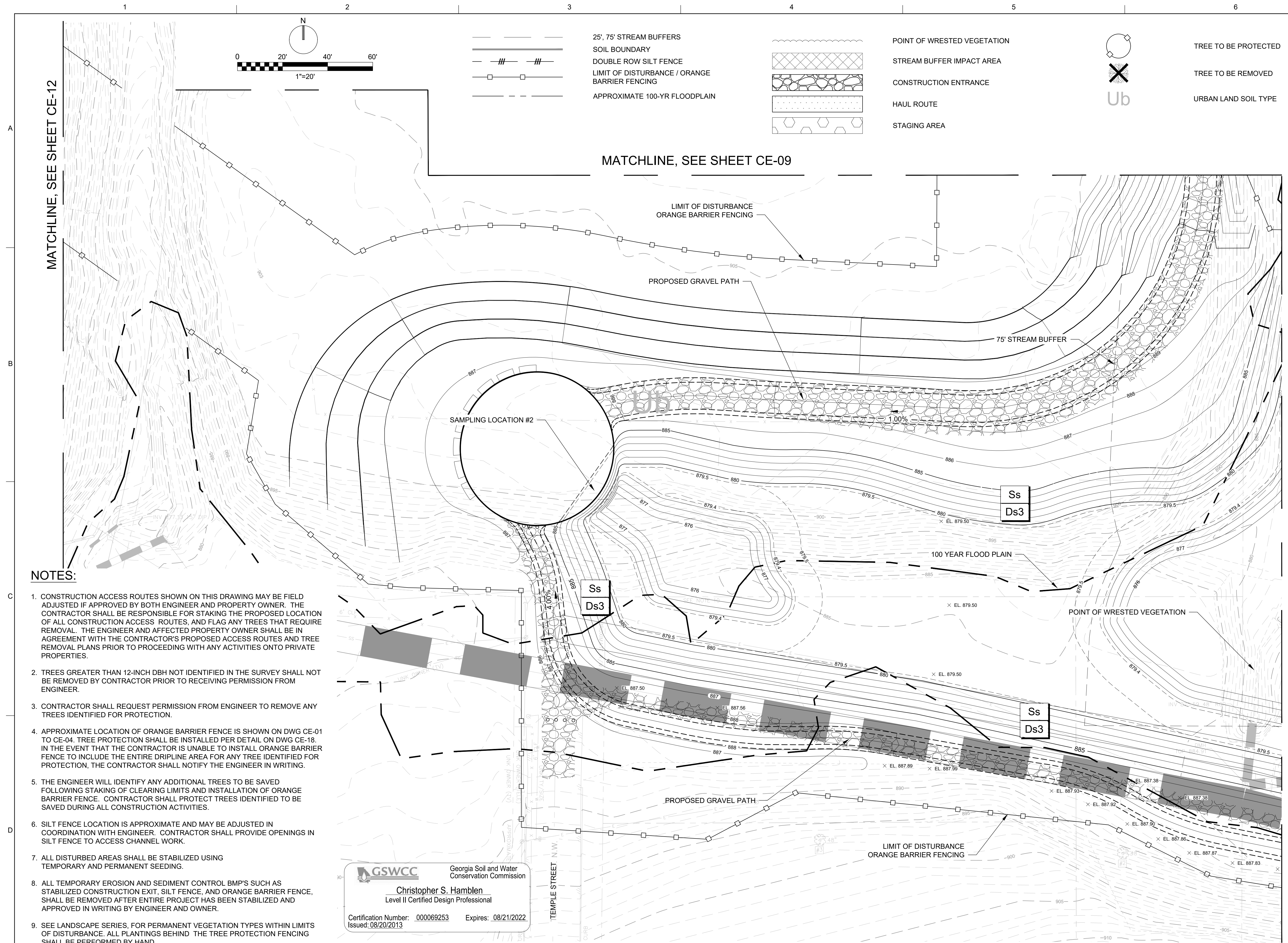
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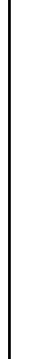
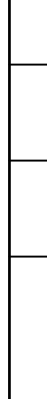

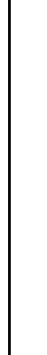
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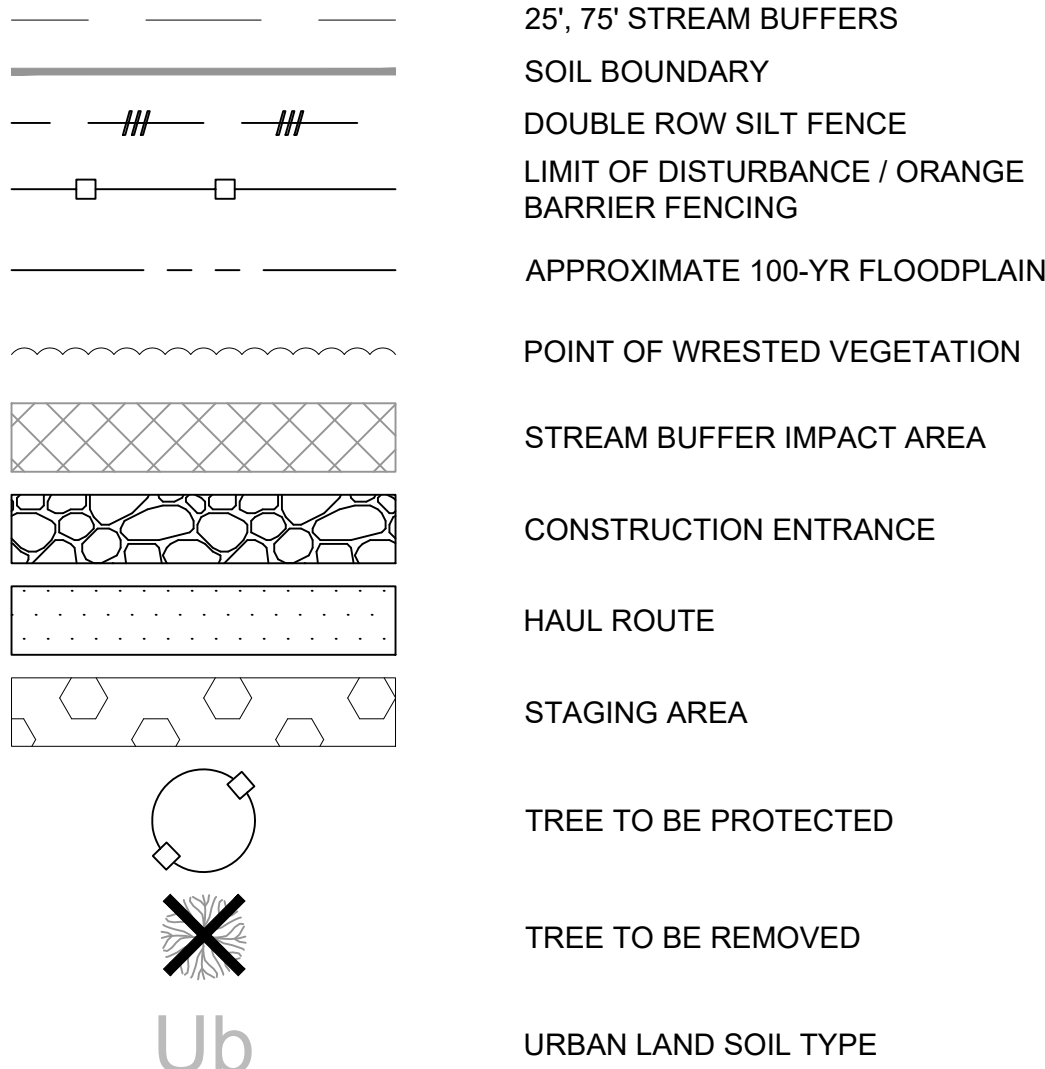
SHEET 36 of 50

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<b>100% DESIGN DOCUMENTS</b>			






 		A JOINT VENTURE		1" = 20'		VERIFICATION SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"		DATE FEBRUARY 2022 PROJ EEX15593 DWG CE-11 SHEET 38 of 50		EROSION CONTROL FINAL EROSION CONTROL PLAN SHEET 3 OF 4		VALLEY OF THE HAWKS CONSTRUCTED WETLANDS 093 GREEN INFRASTRUCTURE DESIGN DEPARTMENT OF WATERSHED MANAGEMENT CITY OF ATLANTA, GA				NO. DATE DSGN		REVISION CHK		J MILLER DR		C BASNETT APVD		V JARRIN BY		APVD	
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MATCHLINE, SEE SHEET CE-11

	Georgia Soil and Water Conservation Commission
<u>Christopher S. Hamblen</u>	
<u>Level II Certified Design Professional</u>	
Certification Number: 000069253	Expires: 08/21/2022
Issued: 08/20/2013	

<b>ch2m</b>		<b>ROH&amp;DFOX</b>		A JOINT VENTURE	
EROSION CONTROL		VALLEY OF THE HAWKS CONSTRUCTED WETLANDS 093 GREEN INFRASTRUCTURE DESIGN DEPARTMENT OF WATERSHED MANAGEMENT CITY OF ATLANTA, GA			
FINAL EROSION CONTROL PLAN SHEET 4 OF 4					
1" = 20'					
VERIFY SCALE					
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 [redacted] 1"					
DATE	FEBRUARY 2022				
PROJ	EEX15593				
DWG	CE-12				
SHEET	39 of 50				



1

2

3

4

5

6

PERMIT COVERAGE:

A.

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE DEVELOPMENTS.

B.

MANAGEMENT PRACTICES AND PERMIT VIOLATIONS (PART II.C.)

B.1.

DESIGN MANAGEMENT PRACTICES REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BMP'S SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART III.D.3 AND PART III.D.4.

B.2.

FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BMP'S SHALL CONSTITUTE A VIOLATION OF THE PERMIT ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED A VIOLATION. IF DURING THE COURSE OF THE PERMITTEE'S ROUTINE INSPECTIONS BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENTATION OR POLLUTION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.

B.3.

A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BMP'S HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.f. AND PART II.B.3.j.

C.

AUTHORIZED DISCHARGES (PART I.C.)

C.1.

DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE ACRE

C.2.

PART I.C.1.a. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER EXCEPT AS PROVIDED IN PART I.C.2 AND PART II.A.2 OF THE PERMIT.

C.3.

PART I.C.2. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.

C.3.1.

THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THE PERMIT.

C.3.2.

STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

C.3.3.

THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY IN THE PLAN AND IS IN COMPLIANCE WITH PART IV.D.7: PART III.A.2. FIRE FIGHTING ACTIVITIES.

C.4.1.

FIRE HYDRANT FLUSHING.

C.4.2.

POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING.

C.4.3.

IRRIGATION DRAINING.

C.4.4.

AIR CONDITIONING CONDENSATE.

C.4.5.

SPRINGS.

C.4.6.

UNCONTAMINATED GROUND WATER, AND

C.4.7.

FOUNDATIONS OR FOOTING DRAINS WHERE THE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

D.

LIMITATIONS ON COVERAGE PART I.C.3

D.1.

THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

D.1.1.

STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

D.1.2.

STORM WATER DISCHARGES FROM OTHER THAN THE FOLLOWING AREAS WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORM WATER DISCHARGES) OF THIS PERMIT:

D.1.3.

STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUALLY OR GENERALLY. SUCH DISCHARGES ARE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND

D.1.4.

STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

E.

COMPLIANCE WITH WATER QUALITY PART I.C.4

E.1.

NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03.

INSPECTIONS

A.

PRIMARY PERMITTEE

A.1.

EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. A NOTICE OF TERMINATION IS SUBMITTED UNTIL A NOTICE OF RAINFALL IS SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

A.3.

CERTIFIED PERSONNEL INSPECTIONS SHALL BE CONDUCTED FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY, WHICHEVER OCCURS FIRST).

A.3.1.

DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE.

A.3.2.

AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND

A.3.3.

STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF SITES THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

A.4.

CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITES THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). BASED ON THE RESULTS OF EACH INSPECTION, THE PRIMARY PERMITTEE SHALL REVISE THE PLAN AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.4.(5), WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.

A.6.

A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN THE SUBJECT OF THIS PERMIT IS UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN, WHERE THE REPORT DOES NOT IDENTIFY AN INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT.

B.

SECONDARY PERMITTEE

B.1.

EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A SECONDARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE SECONDARY PERMITTEE SHALL INSPECT:

B.1.1.

ALL AREAS USED BY THE SECONDARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND

B.1.2.

ALL LOCATIONS AT THE SECONDARY PERMITTEE SITE WHERE THAT PERMITTEE'S VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

B.2.

CERTIFIED PERSONNEL (PROVIDED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES) SHALL INSPECT THE FOLLOWING EACH DAY ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT THE CONSTRUCTION SITE:

B.2.1.

AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS THAT HAVE NOT UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

B.2.2.

AREAS USED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

B.2.3.

STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE UTILITY COMPANIES AND UTILITY CONTRACTORS' CONSTRUCTION ACTIVITIES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS WHEN THEY ARE SECONDARY PERMITTEES PERFORMING SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

B.3.

CERTIFIED PERSONNEL PROVIDED BY THE SECONDARY PERMITTEE SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST).

B.3.1.

DISTURBED AREAS OF THE SECONDARY PERMITTEE'S CONSTRUCTION SITE.

B.3.2.

AREAS USED BY THE SECONDARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND

B.3.3.

STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE SECONDARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF SITES THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

B.4.

CERTIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR SITES THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

B.5.

BASED ON THE RESULTS OF EACH INSPECTION, THE PRIMARY PERMITTEE SHALL REVISE THE PLAN AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.C. OF THIS PERMIT TO ADDRESS THOSE DEFICIENT BMP'S WITHIN SEVEN (7) DAYS OF THE UTILITY PERMITTEE'S NOTICE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEE(S) WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEES MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48 HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE.

B.6.

A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN, WHERE THE REPORT DOES NOT IDENTIFY AN INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

SAMPLING

A.

FREQUENCY

A.1.

THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:

A.1.1.

THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT. IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION OR

A.1.2.

THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

A.2.

HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

A.3.

SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

A.3.1.

FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS\* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM EXCLUDING ALL NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY) IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY, WHICHEVER OCCURS FIRST.

A.3.2.

IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS\* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST.

A.3.3.

AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMP'S ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMP'S IN ANY AREA OF THE SITE THAT DISCHARGE TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST STORM INSPECTIONS DETERMINE THAT BMP'S ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, AND EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

"NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

B.

SAMPLING REQUIREMENTS

B.1.

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THIS SECTION IS NOT APPLICABLE TO SECONDARY PERMITTEES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

C.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

C.1.

A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE OF 1" = 100' OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT.

C.1.1.

THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION INTO WHICH THE STORM WATER IS DISCHARGED AND

C.1.2.

THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS, WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE TOPOGRAPHIC MAP, AND THE RECEIVING WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.

C.2.

THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES THAT MUST INCLUDE PRE-TEST SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.

C.3.

WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED IN THE PERMIT APPENDIX B, THIS RATIONALE MUST INCLUDE THE RATIONALE FOR THE CHOICE OF THE OUTFALL(S) AND THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

C.4.

ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

D.

SAMPLE TYPE

D.1.

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

D.1.1.

SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

D.1.2.

SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

D.1.3.

LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

D.1.4.

MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FIRED THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED, SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

D.1.5.

SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

E.

SAMPLING POINTS

E.1.

FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

E.1.a.

THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

E.1.b.

THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

E.1.c.

IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

E.1.d.

CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL CHANNEL(S).

E.1.e.

THE STORM WATER CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

E.1.f.

THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

E.1.g.

PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS OF FINAL STABILIZATION. FOR THE PURPOSES OF THIS SECTION, SHEETFLOW IS THAT WHICH IS NOT TAKEN FROM AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL. 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT PERENNIAL MEASURES (SUCH AS PLANTED TREES, SHRUBS, PERENNIAL VINES, ETC.) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF

PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH METHOD OF CONSTRUCTION.

REPORTING

A.

THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.I.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD.

B.

REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT.

C.

UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS.

D.

SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD.

E.

THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.I.

F.

SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

G.

ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

G.1.

THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

G.2.

THE NAME(S) OF THE PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

G.3.

THE DATE(S) ANALYSES WERE PERFORMED;

G.4.

HE TIME(S) ANALYSES WERE INITIATED.

G.5.

THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

G.6.

THE ANALYTICAL TECHNIQUES OR METHODS USED, IF AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;

G.7.

THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.

G.8.

RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND

G.9.

CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

H.

ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE APPLICABLE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

RETENTION OF RECORDS

A.

THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

A.1.

A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

A.2.

A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;

A.3.

THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;

A.4.

A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;

A.5.

A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.C. OF THIS PERMIT;

A.6.

A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND

A.7.

DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

B.

EACH SECONDARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

B.1.

A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

B.2.

A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT OR THE APPLICABLE PORTION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN FOR THEIR ACTIVITIES AT THE CONSTRUCTION SITE REQUIRED BY THIS PERMIT;

B.3.

A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.B. OF THIS PERMIT; AND

B.4.

A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT.

C.

EACH TERTIARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

C.1.

A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

C.2.

A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;

C.3.

THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;

C.4.

A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;

C.5.

A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.C. OF THIS PERMIT;

C.6.

A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND

C.7.

DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.C.(2). OF THIS PERMIT.

D.

COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT, AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEES' PRIMARY LOCATION OF BUSINESS ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

NPDES Monitoring Sites

See sheets CE01 - CE03 for site locations

MONITORING SITE EVALUATIONS AND RECOMMENDATIONS

MONITORING SITE

LOCATION

TYPE OF SITE \*

TOTAL ACRES (BASIN AREA)

TOTAL BASIN AREA (SQ.MI.)

ONSITE BASIN AREA (ACRES)

MONITORING SITE RECOMMENDED

NTU LIMIT FROM PERMIT \*\*

TYPE OF RECEIVING WATERS (TROUT OR WARM)

1

N : 1368150.54'  
E : 2217395.85'

RW-U

785

1.2

N/A

YES

N/A

WARM

2

N : 1367991.39'  
E : 2217118.54'

RW-U

570

0.9

N/A

YES

N/A

WARM

3

N : 1369085.94'  
E : 2217113.39'

RW-D

1436

2.2

N/A

YES

MONITORING SITES 1 OR 2 PLUS 25

WARM

\* LEGEND

INflow to Site

OUTfall from Site

RW-D Receiving Water - Downstream of Site

RW-U Receiving Water - Upstream of Site

\*\* Per the Erosion and Sedimentation Act of 1975 (OCGA 12-7), the allowable increase in turbidity (NTUs) between the downstream and upstream sampling points in the receiving waters:

Warm Waters < 5 NTU

Trout Waters < 10 NTU

Per NPDES Permit Appendix B, NTU Limits for Outfalls Waters Supporting Warm Water Fisheries < 5 Sq.Mi. Surface Water Drainage Area Site Area < 10 acres = 50 NTUs Site Area > 10 acres = 50 NTUs

VERIFICATION SCALE

DATE

PROJ

DWG

SHEET

FEBRUARY 2022

EEX15593

CE-14

41 of 50

AS SHOWN

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

811

Know what's below. Call before you dig.

Georgia Soil and Water Conservation Commission

Christopher S. Hamblen

Level II Certified Design Professional

Certification Number: 000069253

Expires: 08/21/2022

100% DESIGN DOCUMENTS

FILENAME: VOH-CE-14.dwg

PLOT DATE: 2/10/2022

PLOT TIME: 1:36:40 PM

1

2

3

4

5

6

PERMIT COVERAGE:

A.

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR STAND ALONE DEVELOPMENTS.

B.

MANAGEMENT PRACTICES AND PERMIT VIOLATIONS (PART II.C.)

B.1.

DESIGN MANAGEMENT PRACTICES REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BMP'S SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH

1

2

3

4

5

6

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES CONTINUED

CITY OF ATLANTA REQUIRED NOTES

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND TEMPORARY SEEDING.

4. ANY DISTURBED AREAS REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.

5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY.

6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.

7. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 TYPE C TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION, AND BE WIRE REINFORCED.

8. THE PROPERTY OWNER AND CONTRACTOR ARE EQUALLY RESPONSIBLE FOR ALL EROSION CONTROL ACTIVITIES.

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES, NOT THE CITY OF ATLANTA.

10. ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. IN SUCH INSTANCES WHERE THE ESTABLISHMENT OF VEGETATION IS INOPPORTUNE DUE TO SEASON OR DROUGHT, DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED USING 2"-4" OF MULCH (DS1). ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FALLS TO GROW.

11. THE CITY'S DESIGNEE WILL VERIFY ADEQUATE COVER (100% COVER, 70% DENSITY) OF PERMANENT STABILIZATION (DS3, DS4).

12. SILT FENCES SHALL NOT BE PLACED IN STREAM BUFFER OR FLOODPLAINS, UNLESS UTILIZED FOR THE CONSTRUCTION OF AN EXEMPT ACTIVITY (I.E. ROADWAY DRAINAGE STRUCTURES, SEWER/WATER CROSSINGS, OR DRAINAGE STRUCTURES) PER THE APPROVED PLANS. FOR SUCH DISTURBANCES WITHIN THE BUFFER, THE AREA SHALL BE IMMEDIATELY STABILIZED USING EROSION CONTROL MATTING AND/OR BLANKETS ONCE THE ACTIVITY IS COMPLETE.

13. SUBCONTRACTORS INVOLVED WITH LAND DISTURBANCE ACTIVITIES SHALL MEET THE EDUCATION REQUIREMENTS (LEVEL 1) DESCRIBED IN O.C.G.A 12-7-19.

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PHASE I – INITIAL PHASE: SITE PREPARATION AND PRE-CONSTRUCTION OPERATIONS

Install / Construct all BMPs as provided on Sheet CE-01

1. PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

3. THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

4. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 50 FEET OF DESIGNATED TREE PROTECTION AREA.

5. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

6. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS, AND BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.

7. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

8. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:

8.1. THE CONSTRUCTION EXITS SHALL BE PLACED AS SHOWN ON THE PLANS.

8.2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

8.3. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.

8.4. TEMPORARY SEDIMENT TRAP AND TEMPORARY SEDIMENT BASIN SHALL BE INSTALLED PRIOR TO AND LAND DISTURBING ACTIVITY.

9. WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORSEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.

10. AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES.

11. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

12. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

13. ALL SILT FENCES MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1993 EDITION.

14. MULCH OR TEMPORARY GRASSING, AND ALER BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

15. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

16. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

17. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING.

18. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

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PHASE II - INTERMEDIATE PHASE: CONSTRUCTION ACTIVITIES

Install / Construct all BMPs as provided on Sheet CE-02.

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.

2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

3. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

4. THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION. CUT AND FILL SLOPES SHALL NOT EXCEED 2:1.

5. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.

6. ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

7. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

8. SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

9. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

10. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

11. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES, WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

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PHASE III - FINAL PHASE: CONSTRUCTION COMPLETION AND FINAL STABILIZATION

Install / Construct all BMPs as provided on Sheet CE-03

Submit Notice of Termination.

1. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

2. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

3. UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

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POLLUTION CONTROL

1. THE MOST EFFICIENT METHOD OF DUST CONTROL FOR THE SITE SHALL BE DETERMINED EXPERIMENTALLY AND MAY CONSIST OF TEMPORARY MEASURES SUCH AS MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, TILLAGE, IRRIGATION, BARRIERS AND/OR THE APPLICATION OF CALCIUM CHLORIDE.

2. LIKEWISE, IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE THE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.

2.A. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND PROVISIONS THAT INTERCEPT THE SEDIMENT-LADEN RUNOFF AND DIRECT IT INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

3. WASHOUT OF THE DRUM OF A CONCRETE TRUCK AT THE CONSTRUCTION SITE IS PROHIBITED.

4. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS SHOWN ON THE DRAWINGS.

4.A. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE FOLLOWED:

4.A.1. CONTAIN ALL WASH WATER ON SOIL IN A BOWL SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHOUT AREA.

4.A.2. USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES.

4.A.3. REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND

4.A.4. REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED.

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STORMWATER DISCHARGE POLLUTANT REDUCTION

1. ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC. SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES.

2. THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

3. PRODUCT SPECIFIC PRACTICES:

3.A. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

3.B. PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

3.C. CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

3.D. FERTILIZERS AND BIOLOGICS - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

3.E. BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES. PLASTIC SHEETING OR TEMPORARY ROOFS SHALL BE USED TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER. PERMIT IV.D.3.C.(2) PG 30

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DRAINAGE AREA MAP

NOT TO SCALE

NOTE:  
TOTAL DRAINAGE AREA IS 147 ACRES.

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SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE TO SITE PERSONNEL.

2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

4. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

4.A. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

4.B. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

4.C. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

5. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY SINGLE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

6. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

7. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

8. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. ANY DISTURBED AREAS REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.

9. PERIMETER EROSION AND SEDIMENT CONTROL DEVICES AND ORANGE BARRIER FENCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK AND REMAIN UNTIL COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE DAMAGED ITEMS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN, AND REPAIRED AS NECESSARY ACCUMULATED SILT SHALL BE REMOVED AS SOON AS PRACTICAL, BUT NO LATER THAN WHEN FENCE IS HALF FULL.

HAZARDOUS WASTES

1. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS.

2. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES.

3. SAFETY DATA SHEETS (SDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS, AND SDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE.

4. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF SDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE SDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

5. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS.

6. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTRACT OCCURS, STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER.

7. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

1. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED TO EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

2. ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN.

3. GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

3. SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THE PROJECT.

SAFETY PROTECTION

CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES, AND REGULATIONS GOVERNING HEALTH AND SAFETY OF HUMAN BEINGS AND THE ENVIRONMENT.

GEORGIA REGISTERED PROFESSIONAL ENGINEER  
NO. 033197  
JEREMY J. JARRIN  
2/10/2022

APVD BY APVD  
V JARRIN

REVISION CHK C BASNETT  
J MILLER

DR V JARRIN

NO. DATE DSGN

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
083 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

CIVIL  
EROSION CONTROL NOTES  
3 OF 4

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SHEET 42 of 50

GSWCC Georgia Soil and Water Conservation Commission  
Christopher S. Hamblen  
Level II Certified Design Professional  
Certification Number: 000069253 Expires: 08/21/2022  
Issued: 08/20/2013

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Du

DUST CONTROL ON  
DISTURBED AREAS

DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

CONDITIONS

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHOD AND MATERIALS

A. TEMPORARY METHODS

- MULCHES. SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- VEGETATIVE COVER. SEE STANDARD DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
- SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS. SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
- CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

B. PERMANENT METHODS

- PERMANENT VEGETATION: SEE STANDARD DS3 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE STANDARD TP - TOPSOILING.
- STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/2/ 30
2. Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ — —
3. Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	1300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1100 lbs./ac.	— — —
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	—
5. Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	—
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/6/ 50-100 lbs./ac. 2/ 30 lbs./ac.
8. Warm season grasses and legumes	First Second Maintenance	6-12-12 6-12-12 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac./6/

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Sl	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (It may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNELS			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

Figure 6-10.1

BLANKET AND MATTING CROSS-SECTIONS

UPSTREAM TERMINAL

TRANSVERSE CHECK SLOT

DOWNSIDE TERMINAL

STEP 1: CUT TERMINAL SLOT.

STEP 1: CUT CHECK SLOT. TEMPORARILY STAKE MAT UNDER MODERATE TENSION.

STEP 1: CUT TERMINAL SLOT.

STEP 2: SNUG MAT INTO SLOT.

STEP 2: WORK UPSTREAM ACROSS CHECK SLOT AND LAP BACK 15".

STEP 2: STAKE MAT INTO SLOT.

STEP 3: A. STAKE MAT INTO SLOT. B. USE 1" X 3" PRESSURE TREATED BOARD TO SPACE MAT AGAINST VERTICAL CUT. C. BACKFILL AND COMPACT.

STEP 3: TUCK MAT LAP INTO SLOT AND STAKE.

STEP 3: BACKFILL TERMINAL SLOT.

STEP 4: A. REVERSE MAT ROLL DIRECTION TO OVERLAY CHECK LOT. B. STAKE MAT TO ANCHOR TERMINAL.

STEP 4: A. BACKFILL AND PROGRESS UPSTREAM. PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING. B. STAKE MAT DOWN TO ANCHOR TERMINAL. C. PROGRESS UPSTREAM WITH ROLL.

STEP 4: A. ROLL MAT UP. B. STREAM OVER REFILLED TERMINAL. C. PROGRESS UPSTREAM WITH ROLL.

SEQUENTIAL ROLL RUN OUT IN CHANNELS

PICTORIAL VIEW OF TRANSVERSE SLOT

NOTES:

- START AT DOWNSIDE TERMINAL AND PROGRESS UPSTREAM.
- FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
- WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
- USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
- USE 3" OVERLAPS AND SHINGLE DOWNSIDE TO CONNECT THE LINING AT THE ROLL ENDS.

EROSION CONTROL MATTING TO BE USED: BioD-MAT 70

EROSION AND SEDIMENT CONTROL

COMPOST FILTER SOCK

CROSS-SECTION

PLAN

NOTE: FILTER SOCK SIZED TO SUIT CONDITIONS (SEE APPROVED LIST)

GEORGIA

UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

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VALLEY OF THE HAWKS  
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DEPARTMENT OF WATERSHED MANAGEMENT  
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CH2M ROHLDFLEX  
A JOINT VENTURE

CIVIL

EROSION CONTROL DETAILS  
1 OF 3

AS SHOWN  
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
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Georgia Soil and Water Conservation Commission  
Christopher S. Hamblen  
Level II Certified Design Professional  
Certification Number: 000069253 Expires: 08/21/2022  
Issued: 08/20/2013

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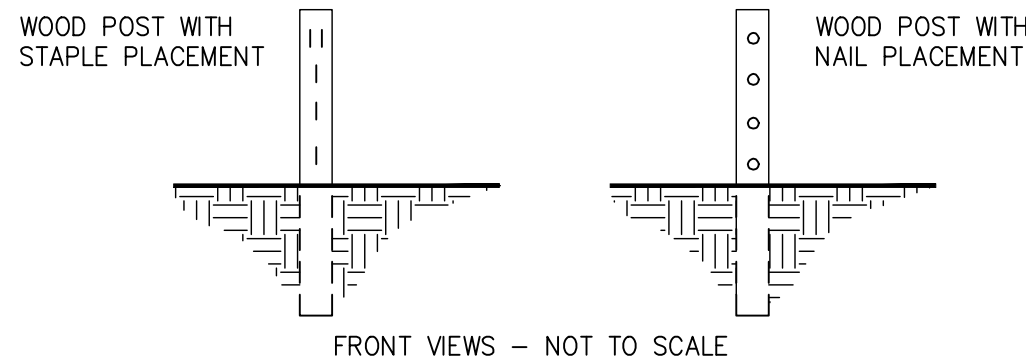
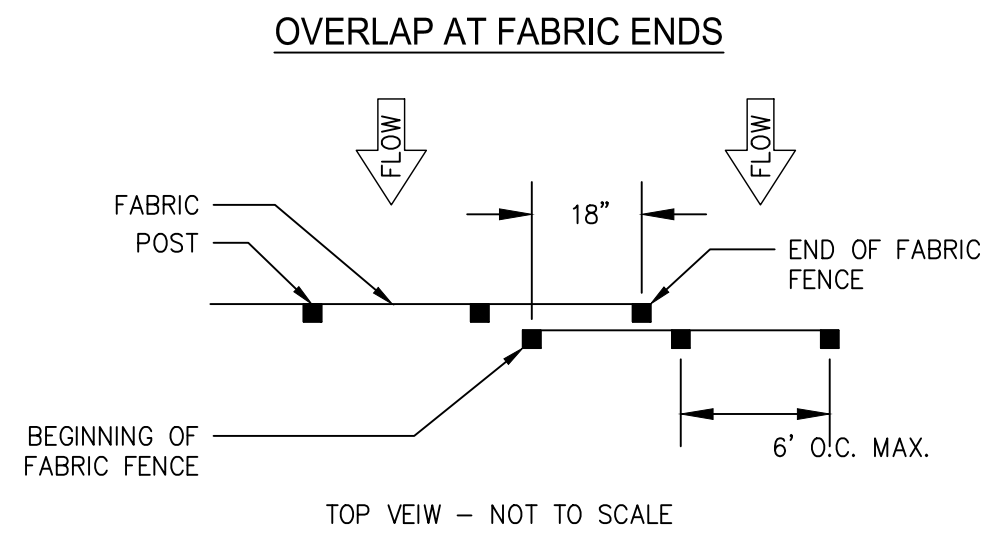
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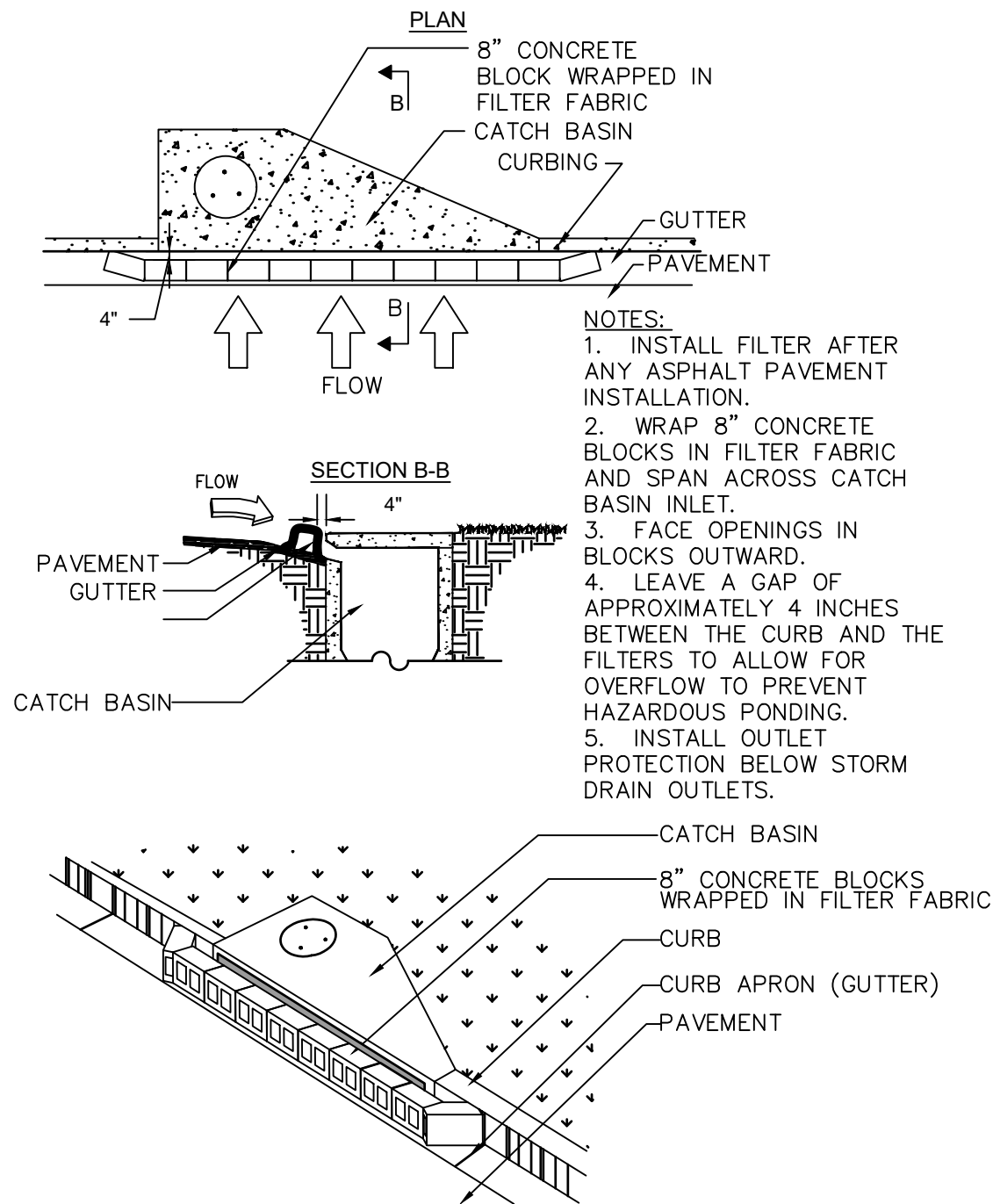
Sd1 FASTENERS FOR SILT FENCES

Figure 6-27.5

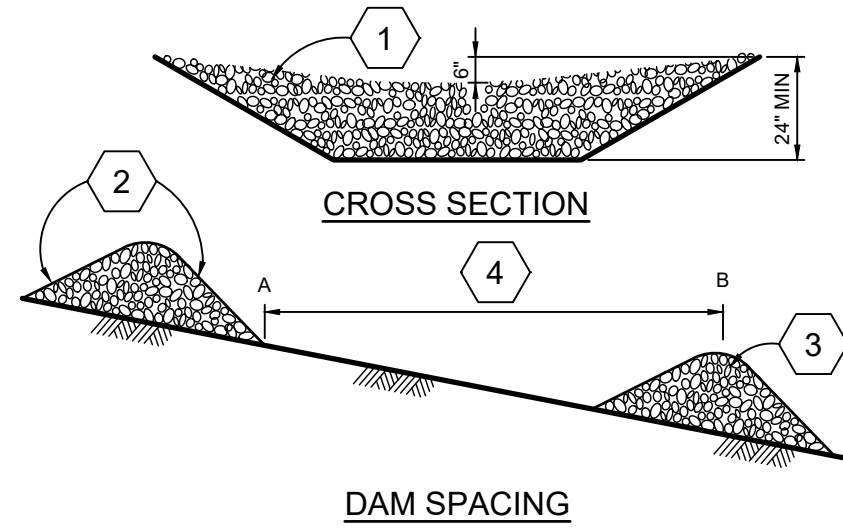


NOTES:  
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

Sd2-P INLET SEDIMENT TRAP  
TYPE (PIG IN BLANKET)



Cd STONE CHECK DAM

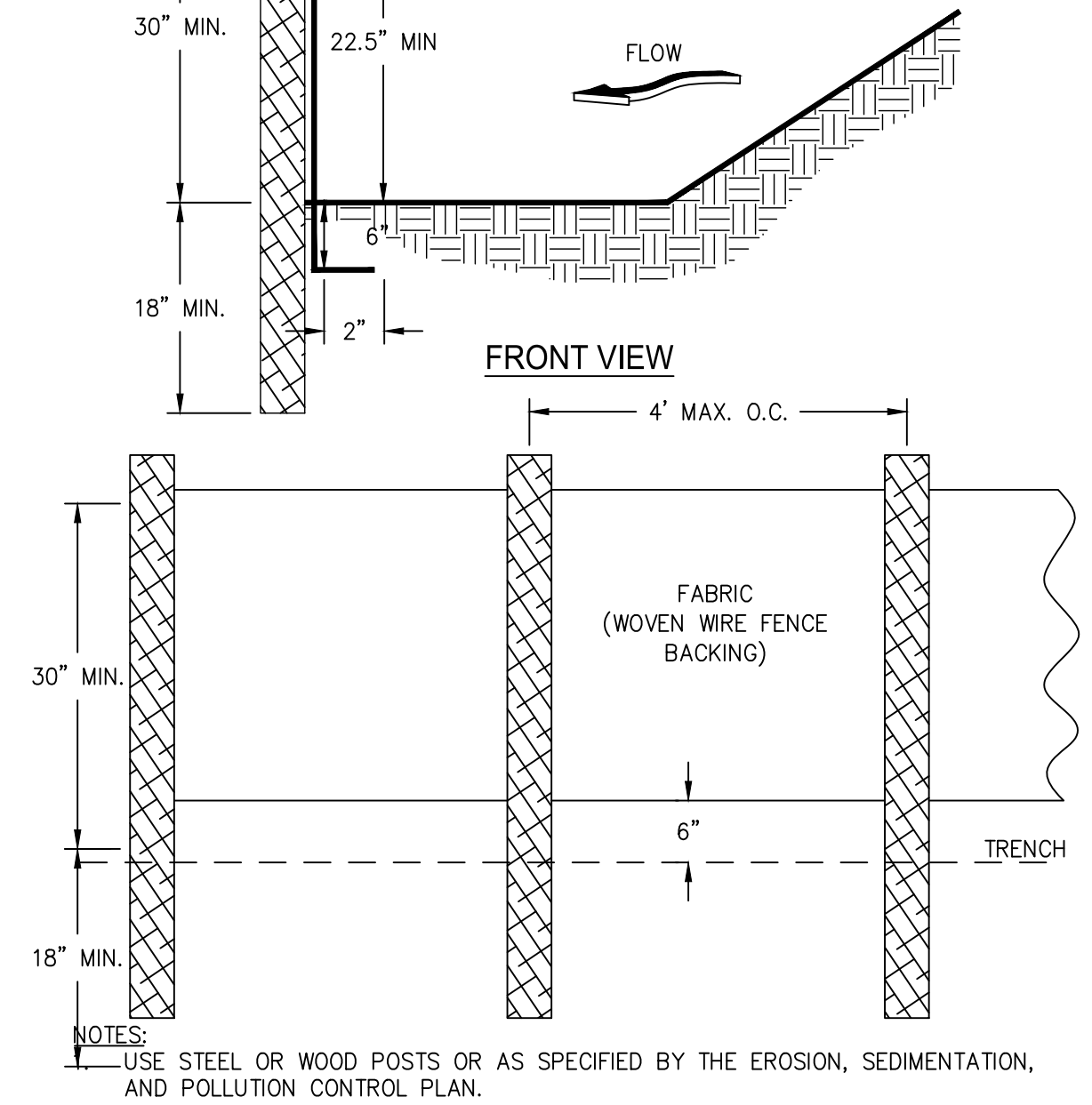


MAINTENANCE STANDARDS:

- A. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
- B. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION CONTROL BLANKET OR NET.

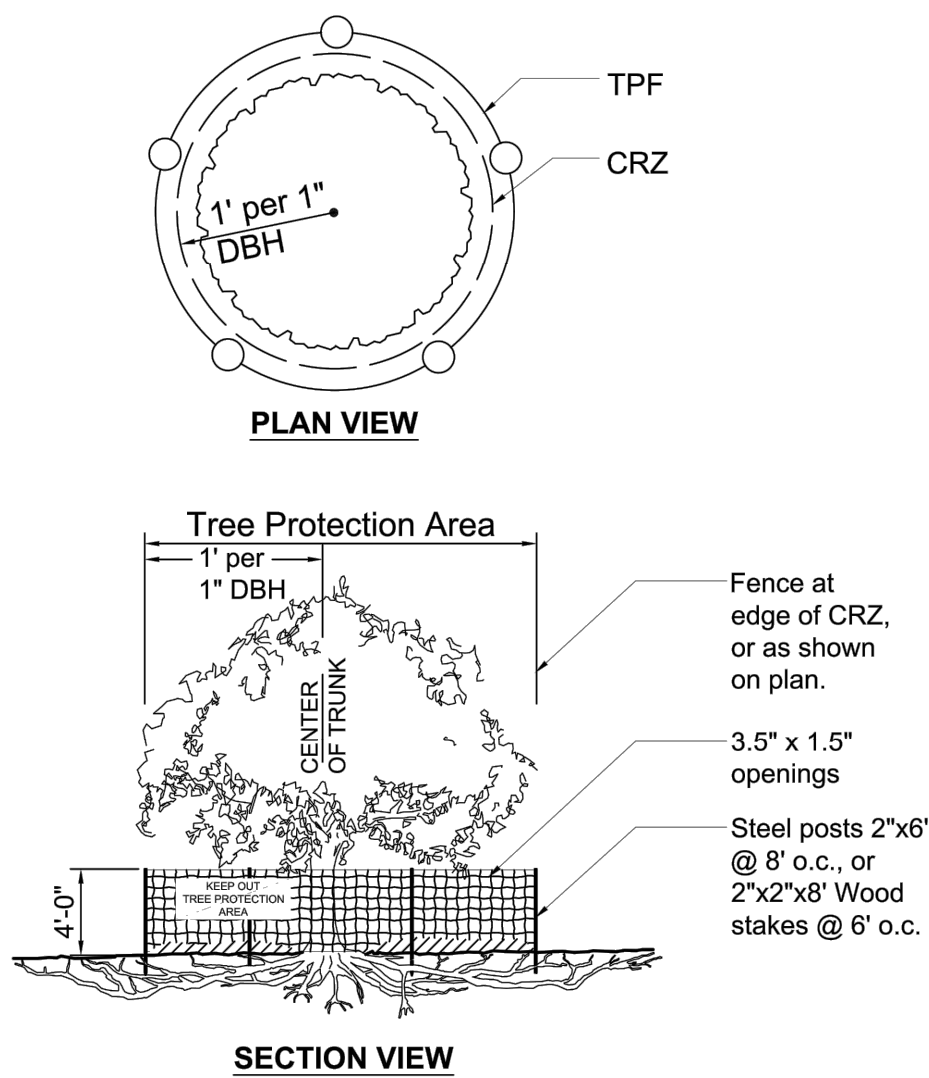
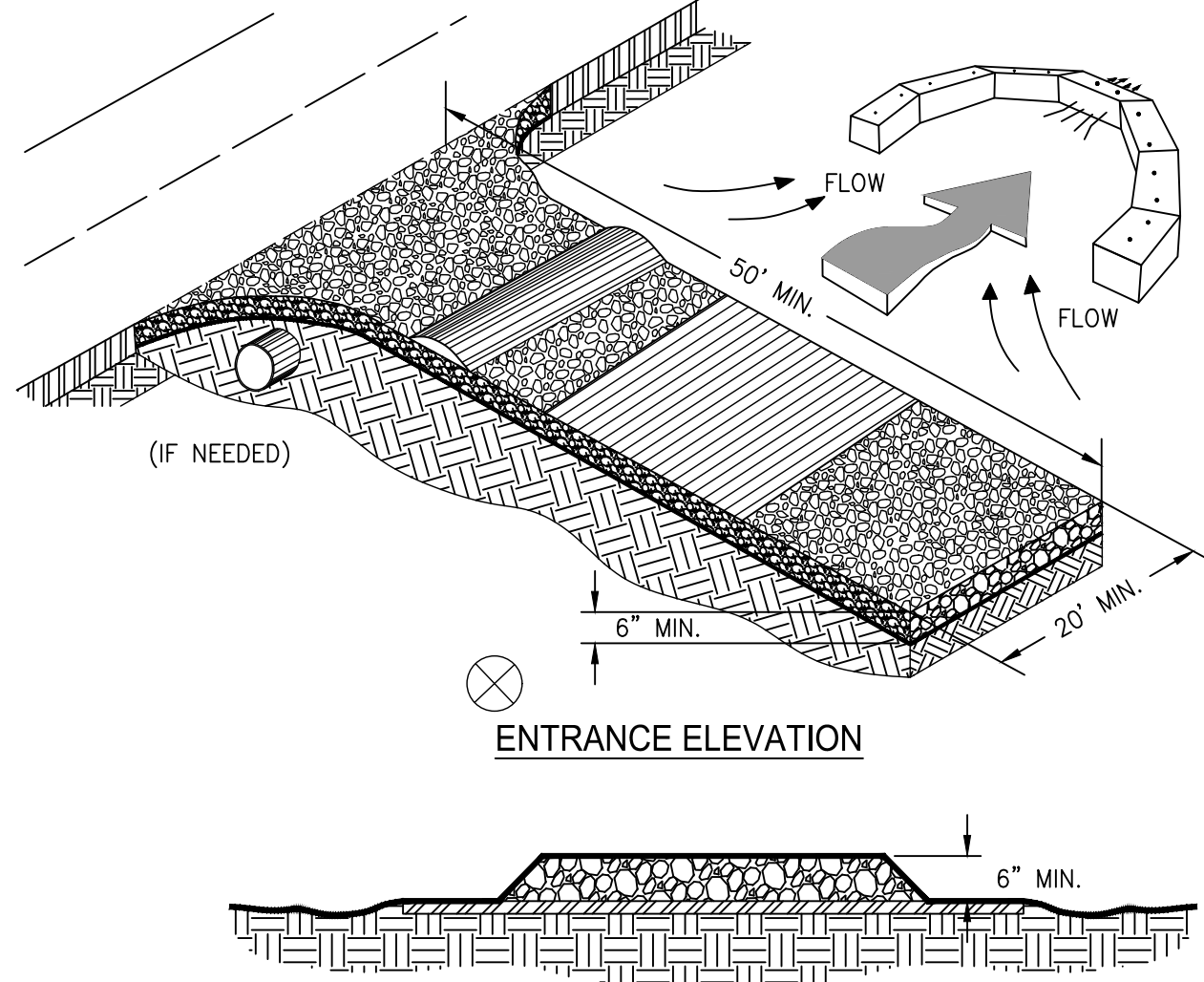
Sd1-S SILT FENCE - TYPE SENSITIVE

Figure 6-27.2  
SIDE VIEW

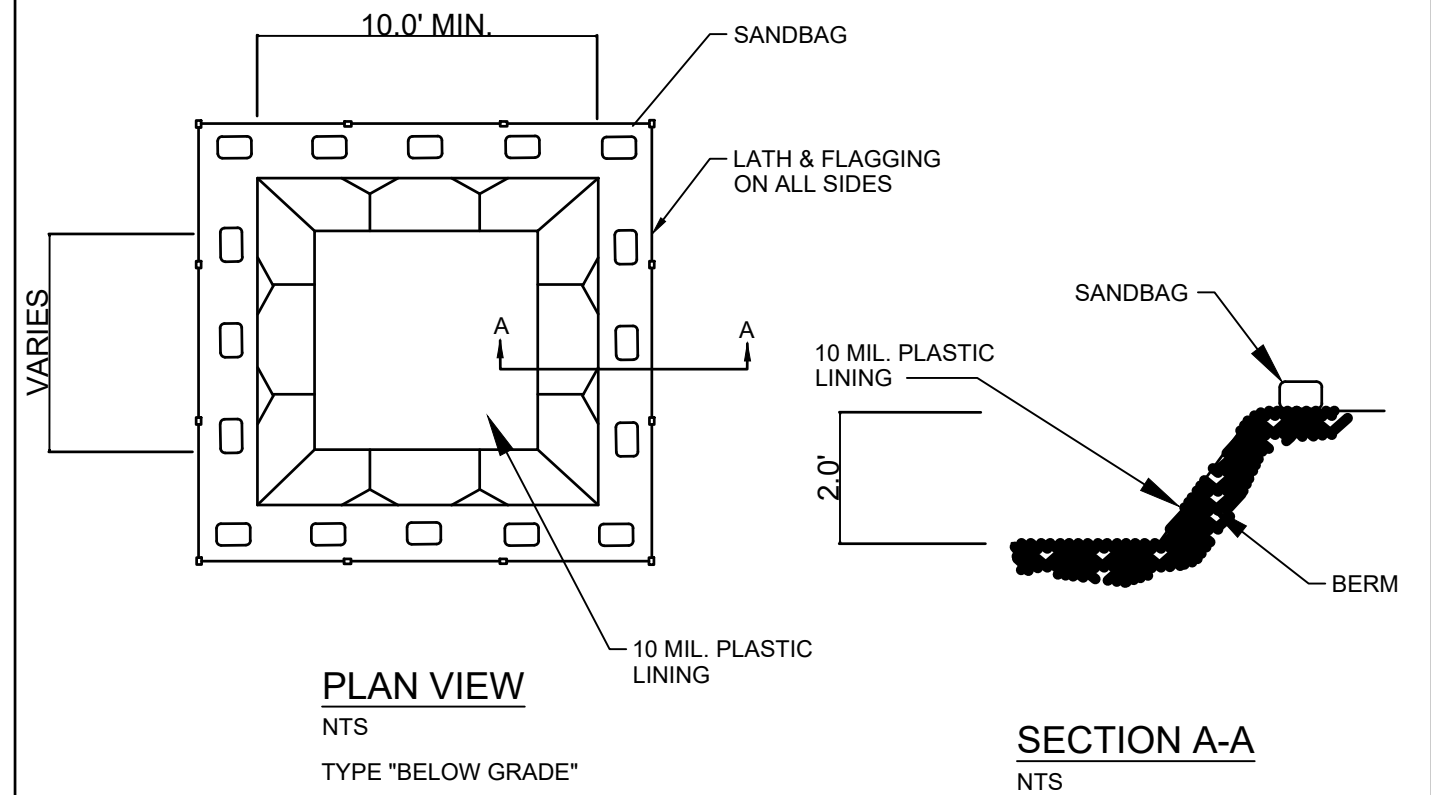


Co CRUSHED STONE CONSTRUCTION EXIT

Figure 6-14.1  
EXIT DIAGRAM



1. THE CONTRACTOR MUST PROVIDE A DESIGNATED AREA FOR WASHDOWN OF TRUCKS WHEELS, TOOLS, AND THE REAR OF THE VEHICLES. THIS AREA MUST HAVE A WASHOUT FACILITY AND SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL SHOWN BELOW.
2. THE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.
3. WASH OUT DISCHARGE FROM THE CLEANING OF TRUCKS, TOOLS, AND OTHER EQUIPMENT SHALL NOT BE DISCHARGED INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
4. ALL EXCESS SEDIMENT SHALL BE TRANSPORTED TO THE DISPOSAL SITE AND DISPOSED OF PROPERLY.



Wd WASH DOWN AREA



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VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
083 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

CH2M ROHLDFLEX  
A JOINT VENTURE  
CIVIL  
EROSION CONTROL DETAILS  
1 OF 2

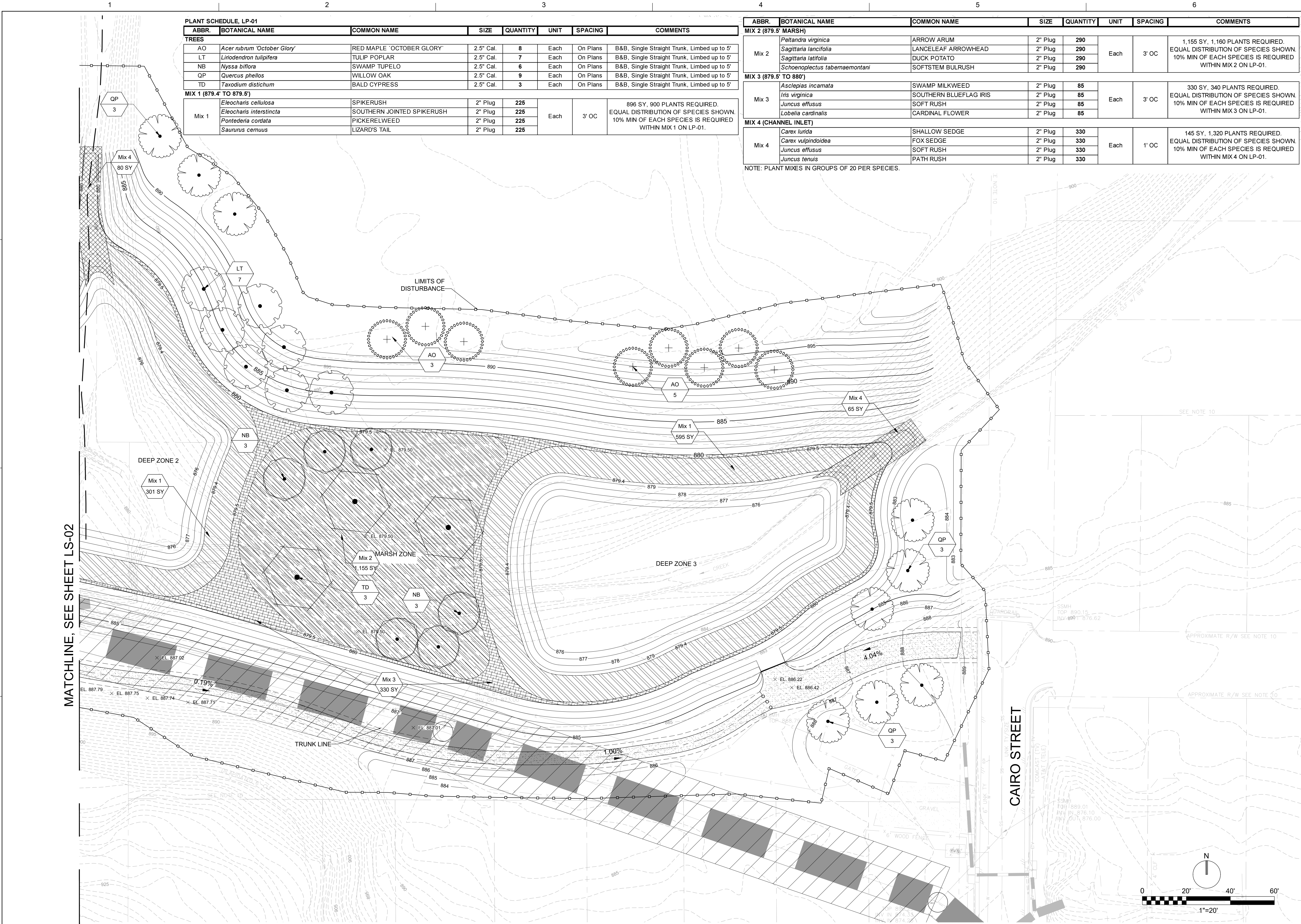
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BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE FEBRUARY 2022
PROJ EEX15593
DWG CE-18
SHEET 45 of 50

GSWCC Georgia Soil and Water Conservation Commission  
Christopher S. Hamblen  
Level II Certified Design Professional  
Certification Number: 000069253 Expires: 08/21/2022  
Issued: 08/20/2013

811  
Know what's below.  
Call before you dig.







PLANT SCHEDULE, LP-01							
ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	UNIT	SPACING	COMMENTS
TREES							
AO	<i>Acer rubrum</i> 'October Glory'	RED MAPLE 'OCTOBER GLORY'	2.5" Cal.	8	Each	On Plans	B&B, Single Straight Trunk, Limbed up to 5'
LT	<i>Liriodendron tulipifera</i>	TULIP POPLAR	2.5" Cal.	7	Each	On Plans	B&B, Single Straight Trunk, Limbed up to 5'
NB	<i>Nyssa biflora</i>	SWAMP TUPELO	2.5" Cal.	6	Each	On Plans	B&B, Single Straight Trunk, Limbed up to 5'
QP	<i>Quercus phellos</i>	WILLOW OAK	2.5" Cal.	9	Each	On Plans	B&B, Single Straight Trunk, Limbed up to 5'
TD	<i>Taxodium distichum</i>	BALD CYPRESS	2.5" Cal.	3	Each	On Plans	B&B, Single Straight Trunk, Limbed up to 5'
MIX 1 (879.4' TO 879.5')							
Mix 1	<i>Eleocharis cellulosa</i>	SPIKERUSH	2" Plug	225	Each	3' OC	896 SY, 900 PLANTS REQUIRED. EQUAL DISTRIBUTION OF SPECIES SHOWN. 10% MIN OF EACH SPECIES IS REQUIRED WITHIN MIX 1 ON LP-01.
	<i>Eleocharis interstincta</i>	SOUTHERN JOINTED SPIKERUSH	2" Plug	225			
	<i>Pontederia cordata</i>	PICKERELWEED	2" Plug	225			
	<i>Saururus cernuus</i>	LIZARD'S TAIL	2" Plug	225			

ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	UNIT	SPACING	COMMENTS
MIX 2 (879.5' MARSH)							
Mix 2	<i>Peltandra virginica</i>	ARROW ARUM	2" Plug	290	Each	3' OC	1,155 SY, 1,160 PLANTS REQUIRED. EQUAL DISTRIBUTION OF SPECIES SHOWN. 10% MIN OF EACH SPECIES IS REQUIRED WITHIN MIX 2 ON LP-01.
	<i>Sagittaria lancifolia</i>	LANCELEAF ARROWHEAD	2" Plug	290			
	<i>Sagittaria latifolia</i>	DUCK POTATO	2" Plug	290			
	<i>Schoenoplectus tabernaemontani</i>	SOFTSTEM BULRUSH	2" Plug	290			
MIX 3 (879.5' TO 880')							
Mix 3	<i>Asclepias incarnata</i>	SWAMP MILKWEED	2" Plug	85	Each	3' OC	330 SY, 340 PLANTS REQUIRED. EQUAL DISTRIBUTION OF SPECIES SHOWN. 10% MIN OF EACH SPECIES IS REQUIRED WITHIN MIX 3 ON LP-01.
	<i>Iris virginica</i>	SOUTHERN BLUEFLAG IRIS	2" Plug	85			
	<i>Juncus effusus</i>	SOFT RUSH	2" Plug	85			
	<i>Lobelia cardinalis</i>	CARDINAL FLOWER	2" Plug	85			
MIX 4 (CHANNEL INLET)							
Mix 4	<i>Carex lurida</i>	SHALLOW SEDGE	2" Plug	330	Each	1' OC	145 SY, 1,320 PLANTS REQUIRED. EQUAL DISTRIBUTION OF SPECIES SHOWN. 10% MIN OF EACH SPECIES IS REQUIRED WITHIN MIX 4 ON LP-01.
	<i>Carex vulpinoidea</i>	FOX SEDGE	2" Plug	330			
	<i>Juncus effusus</i>	SOFT RUSH	2" Plug	330			
	<i>Juncus tenuis</i>	PATH RUSH	2" Plug	330			

NOTE: PLANT MIXES IN GROUPS OF 20 PER SPECIES.

GEORGIA REGISTERED PROFESSIONAL ENGINEER  
LEONICA JARRIN, P.E.  
NO. 033197  
2/10/2022

REVISION  
BY  
APVD  
V JARRIN  
C BASNETT  
J MILLER  
DR  
V JARRIN  
DSGN  
NO. DATE

VALLEY OF THE HAWKS  
CONSTRUCTED WETLANDS  
083 GREEN INFRASTRUCTURE DESIGN  
DEPARTMENT OF WATERSHED MANAGEMENT  
CITY OF ATLANTA, GA

LANDSCAPE  
PLANTING PLAN  
SHEET 1 OF 2

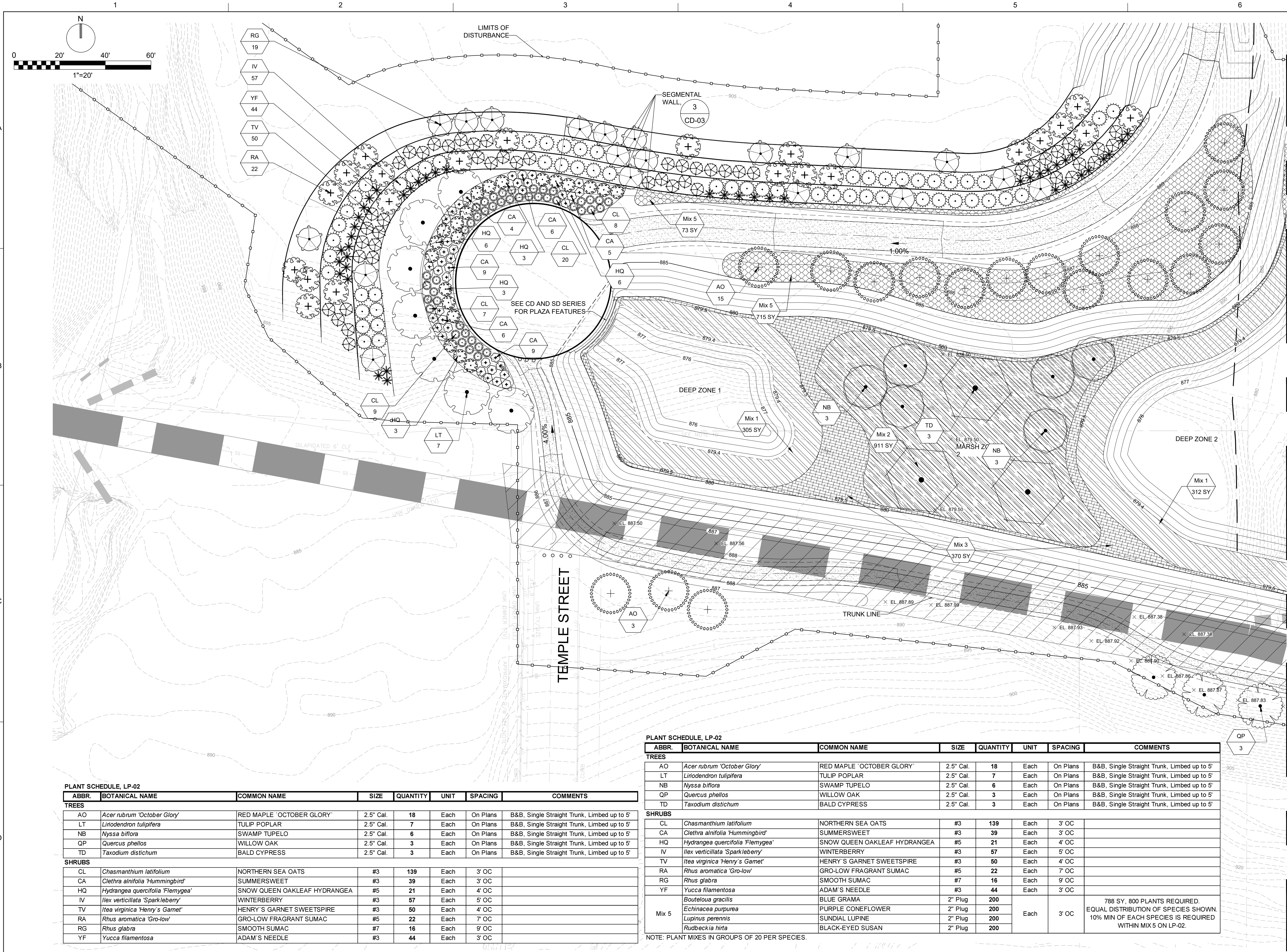
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DATE FEBRUARY 2022  
PROJ EEX15593  
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SHEET 48 of 50

100% DESIGN DOCUMENTS

ch2m.ROHARDFox  
A JOINT VENTURE

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GEORGIA

REGISTERED

NO. 033197

PROFESSIONAL

ENGINEER

LEONORA JARRIN

2/10/2022

DATE

FEBRUARY 2022

PROJ

EEX15593

DWG

LP-02

SHEET

49 of 50

1"=20"

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 1"

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FEBRUARY 2022

PROJ

EEX15593

DWG

LP-02

SHEET

49 of 50

LANDSCAPE

PLANTING PLAN

SHEET 2 OF 2

VALLEY OF THE HAWKS

CONSTRUCTED WETLANDS

083 GREEN INFRASTRUCTURE DESIGN

DEPARTMENT OF WATERSHED MANAGEMENT

CITY OF ATLANTA, GA

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REVISION

BY

APVD

DATE

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V JARRIN

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J MILLER

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C BASNETT

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