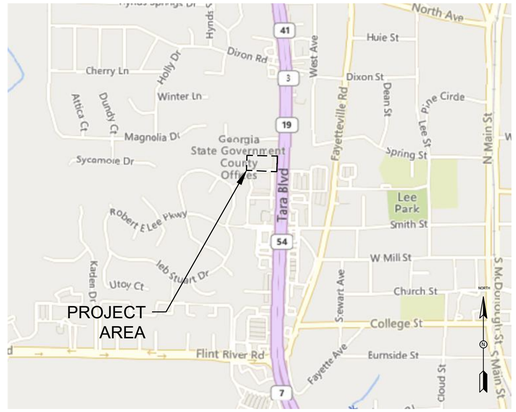
TARA BOULEVARD STORM DRAIN REHABILITATION

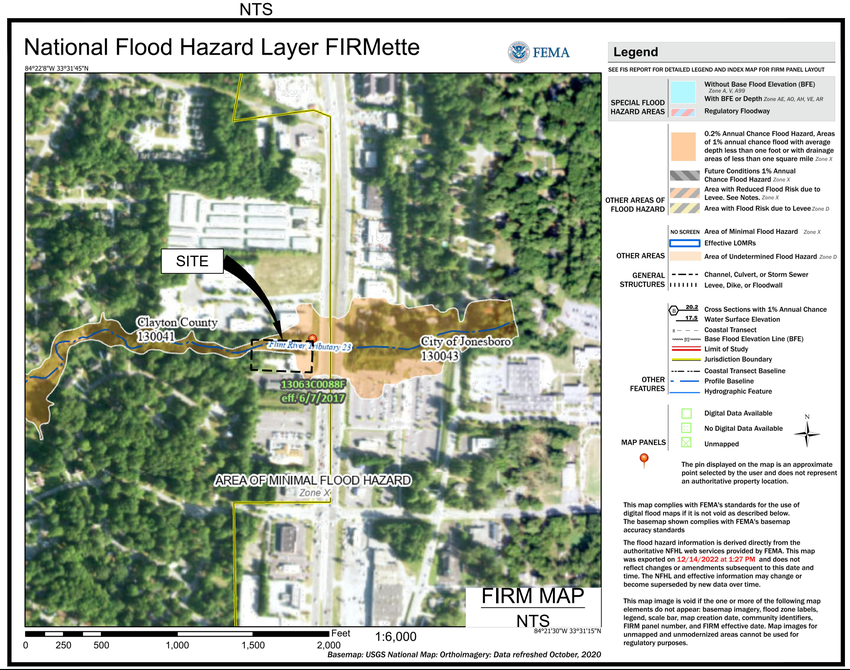
Sheet List Table	
Sheet Number	Sheet Title
G-01	COVER SHEET
G-02	NOTES AND LEGEND
V-00	EXISTING CONDITIONS
CM-101	DEMOLITION PLAN
CU-101	GRADING AND DRAINAGE PLAN
CU-201	UTILITY PROFILE
CU-501	CONSTRUCTION DETAILS
CU-502	CONSTRUCTION DETAILS
CE-101	INITIAL EROSION CONTROL PLAN
CE-102	FINAL EROSION CONTROL PLAN
CE-401	EROSION CONTROL NOTES
CE-402	EROSION CONTROL NOTES
CE-403	EROSION CONTROL NOTES
CE-404	EROSION CONTROL NOTES
CE-501	EROSION CONTROL DETAILS
CE-502	EROSION CONTROL DETAILS
CE-503	EROSION CONTROL DETAILS
CE-504	EROSION CONTROL DETAILS

PROJECT DATA	
ZONING	C2
PROPOSED BUILDING SF	NA
REQUIRED PARKING SPACES (INDUSTRIAL AND ACCESSORY OFFICES)	NA
PROVIDED PARKING SPACES	NA

LOCATION MAP
NTS



VICINITY MAP
NTS



FIRM MAP
NTS

CLAYTON COUNTY Water AUTHORITY

OWNER/DEVELOPER:
CLAYTON COUNTY WATER AUTHORITY
1600 BATTLE CREEK ROAD
MORROW, GEORGIA 30260
PHONE: (770) 961-2130

DESIGN PROFESSIONAL:
JACOBS ENGINEERING GROUP INC.
10 TENTH STREET, N.W.
ATLANTA, GEORGIA 30309
PHONE: (404) 978-7439
CONTACT: PAUL PURCELL, P.E.
LEVEL II #18856

24-HOUR CONTACT:
CONTACT: KEVIN OSBEY
PHONE: (770) 961-2130 x5504

AREA SUMMARY:
DISTURBED AREA: 1.44 AC
NEW IMPERVIOUS AREA: 0.00 AC

Jacobs

10 TENTH STREET NW, SUITE 1400
ATLANTA, GA 30309 | T (404) 978-7600

JANUARY 2025

ISSUED FOR BID
VOLUME 3 OF 3

PROJECT DESCRIPTION:

1. THIS PROJECT IS LOCATED AT 8405 TARA BOULEVARD IN LAND LOTS 242 OF THE 4th DISTRICT, CITY OF JONESBORO, CLAYTON COUNTY, GA.
2. THE PROPOSED DEVELOPMENT INVOLVES THE REMOVAL OF A FAILED STORM PIPE AND RE-GRADING TO CREATE A NATURAL FLOW CHANNEL. CONNECTION TO EXISTING STORM STRUCTURE WILL BE MADE BY A SHORT SECTION OF BOX CULVERT.
3. THE FLOODPLAIN LIMITS SHOWN ON THE DRAWINGS ARE FROM GA DFIRM FLOOD MAPS. THE RELEVANT FEMA FIRM PANEL IS NO. 13063C0088F DATED JUNE 7, 2017.
4. THERE ARE NO WETLANDS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE.
5. THE ARE NO STATE WATERS WITHIN THE PROJECT AREA AS PER CORRESPONDENCE WITH GAEPD. DUE TO THE ONGOING EROSION, THERE IS NO WRESTED VEGETATION WITHIN THE PROPOSED AREA OF DISTURBANCE.

PROJECT GENERAL NOTES:

A. THE PERSON ULTIMATELY RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES ON THIS SITE AND WHO IS TO BE CONTACTED IN THE EVENT OF A STOP WORK ORDER, IS: KEVIN OSBEY WITH PHONE #(770) 961-2130 x5504.

B. AREAS USED AS BURIAL PITS DURING DEVELOPMENT MUST BE LOCATED OUTSIDE THE RIGHT-OF-WAY AND ARE TO BE LOCATED AND IDENTIFIED ON THE FINAL PLAT. GEORGIA DNR EPD REQUIREMENTS ARE TO BE MET: "NO PORTION OF WASTE DISPOSAL SHALL BE LOCATED WITHIN 100 LINEAR FEET OF ANY PROPERTY LINE OR ENCLOSED STRUCTURE".

C. ANY REVISION TO THE PLANS AFTER THE INITIAL SUBMITTAL, OTHER THAN THE RESPONSE TO THE PLAN REVIEW COMMENTS, WILL BE INDICATED ON REVISIONS AND SUBMITTED WITH A WRITTEN EXPLANATION OF THE REVISIONS AND THE REASONS.

D. ANY VARIATIONS FROM THE PERMITTED PLANS, CHANGES IN DESIGN RESULTING FROM FIELD CONDITIONS, OR SUBSTITUTION OF CONSTRUCTION MATERIALS ARE TO BE REVIEWED AND APPROVED BY THE RESPONSIBLE DESIGN ENGINEER AND CLAYTON COUNTY LAND DEVELOPMENT.

E. PLANS ARE REVIEWED IN GENERAL. SPECIFIC DETAILS AND CALCULATIONS MAY NOT BE CHECKED. THE ENGINEERS STAMP AND SIGNATURE GUARANTEES THE ACCURACY OF THE CALCULATIONS AND DESIGN. PLAN APPROVAL DOES NOT OBLIGATE THE COUNTY TO ACCEPT THE WORK, NOR DOES IT RELIEVE THE DEVELOPER AND / OR ENGINEER FROM COMPLIANCE WITH ANY OTHER COUNTY, STATE OR FEDERAL ORDINANCES AND LAWS. PLAN APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM THE RESPONSIBILITY FOR DAMAGES TO ADJACENT OR DOWNSTREAM PROPERTY RESULTING FROM THIS DEVELOPMENT.

GEORGIA REGISTERED No. 16700 PROFESSIONAL ENGINEER
01-14-2025

NO.	DATE	REVISION	DR	CHK	APVD
DSGN	P. PURCELL	P. AKINOSHO	C. HENSLEY		P. PURCELL
3	11/2024	ISSUED FOR BID		PA	PP
2	06/2024	90% DESIGN DRAWINGS		PA	PP
1	03/2024	60% DESIGN DRAWINGS		PA	PP
0	01/24/23	30% DESIGN DRAWINGS		PA	PP
NO.	DATE	REVISION		BY	APVD

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL
COVER SHEET

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	G-01
SHEET	1 of 18

ISSUED FOR BID

CIVIL LEGEND

EXISTING	NEW	
× 100.00	× 100.00	- SPOT ELEVATION
920	920	- PROMINENT CONTOURS
922	922	- INTERMEDIATE CONTOURS
		- DROP INLET
		- JUNCTION BOX
		- DOUBLE WING CATCH BASIN (DWCB)
		- SINGLE WING CATCH BASIN (SWCB)
		- WEIR INLET
		- FLARED END SECTION
		- YARD INLET
		- STORM MANHOLE
		- SANITARY SEWER MANHOLE
CO	CO	- CLEANOUT
YH	YH	- YARD HYDRANT
		- FIRE HYDRANT
		- WATER VALVE
WM	WM	- WATER METER
		- THRUST BLOCKING
GAS	GAS	- GAS METER
IRR	IRR	- IRRIGATION VALVE
GAS	GAS	- GAS VALVE
G	G	- GAS LINE
SD	18" RCP	- STORM SEWER LINE
SS	8" PVC	- SANITARY SEWER LINE
DR	8" PVC DR	- SANITARY SEWER DRAIN LINE
ST	ST	- STEAM LINE
UGTV	UGTV	- CABLE TELEVISION LINE
UT	UT	- BURIED TELEPHONE LINE
W	8" DIP W	- WATER LINE
		- PROPERTY BOUNDARY LINE
		- LAND LOT LINE
		- CREEK LINE
		- LIMIT OF DISTURBANCE
FLOOD	FLOOD	- ANTICIPATED FLOODPLAIN LOCATION UNDER CURRENT FEMA UPDATE
LL 836		- LAND LOT NUMBER
		- IRON PIN FOUND 1/2" REBAR UNLESS NOTED OTHERWISE
		- 1/2" REBAR SET
BM		- BENCHMARK
TBM BH B3		- TEMPORARY BENCHMARK
		- SOIL BORING

EXISTING	NEW	
		- BOLLARD
		- SIGN
RR		- RR CROSSING
x x		- FENCE
		- TREE LINE
		- RETAINING WALL
		- GUARD RAIL
		- TRAFFIC FLOW & PAVEMENT MARKING
		- HANDICAP RAMP
		- HANDICAP PARKING SPACE
MB	MB	- MAILBOX
		- SHRUB
		- TREE
		- SWAMP/WETLAND
D	D	- ELECTRIC DUCT BANK
E	P OR H OR C OR E	- ELECTRICAL MANHOLE
T	T	- TRANSFORMER PAD
		- LIGHT POLE
OE OE	OE OE	- OVERHEAD ELECTRIC LINE
UE	UE	- BURIED ELECTRIC LINE
		- UTILITY POLE
		- GUY POLE
		- GUY WIRE
T	T	- TELEPHONE MANHOLE
		- BUILDING/STRUCTURE
		- STRUCTURE OR PAVEMENT TO BE DEMOLISHED
		- PAVING
		– HEAVY DUTY ASPHALT PAVING
		- ASPHALT PAVING PER CLAYTON COUNTY STANDARD SECTION
		- CONCRETE PAVING
		- GRAVEL PAVING
CONC S/W		- CONC. SIDEWALK

GENERAL SITE NOTES:

1. LOCATIONS OF EXISTING FACILITIES AND UTILITIES ARE TAKEN FROM THE SURVEY PERFORMED BY ACCURA, DATED 11/28/22. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UNDERGROUND UTILITY LINES, PIPES, VAULTS, OR BOXES PRIOR TO COMMENCING WORK.
2. HORIZONTAL DATUM: NAD83
3. VERTICAL DATUM: NAVD88
4. CONTRACTOR SHALL VERIFY PROJECT LIMITS PRIOR TO COMMENCING WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF UTILITY LOCATION THROUGHOUT PROJECT.
6. ANY DAMAGE INCURRED TO ANY EXISTING UTILITY ELEMENTS SHALL BE REPAIRED PROPERLY AND IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
7. ANY AND ALL DAMAGE TO EXISTING PLANT MATERIAL OR HARDSCAPE ELEMENTS THAT ARE TO REMAIN, I.E. CURBS, ROADS, WALLS, FENCES, TREES, SHRUBS, ETC., SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
8. CONTRACTOR SHALL NOT WILLINGLY PROCEED WITH CONSTRUCTION WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
9. CONTRACTOR SHALL BRING ANY DISCREPANCIES IN PLAN, SITE CONDITIONS AND PRIOR WORK TO THE OWNER'S ATTENTION BEFORE ANY ADDITIONAL WORK IS PERFORMED.
10. THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMITTING BIDS.
11. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
12. CONTRACTOR SHALL REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL DEBRIS. NO RUBBISH OR DEBRIS SHALL BE BURNED ON THE SITE.
13. THE FLOODPLAIN LIMITS SHOWN ON THE DRAWINGS ARE FROM GA DFIRM PRELIMINARY FLOOD MAPS. THE RELEVANT FEMA FIRM PANEL IS NO. 13063C0132E DATED SEPTEMBER 5, 2007.
14. PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION AS PER THE APPROVED EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS.

STAKING NOTES:

1. COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CENTERLINE OF ROAD.
2. 5' TYPICAL RADIUS UNLESS NOTED OTHERWISE.
3. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.

DEMOLITION NOTES:

1. CONTRACTOR TO PROVIDE AND MAINTAIN NECESSARY FENCES, BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT THE DEMOLITION AND CONSTRUCTION ACTIVITIES ON THE SITE.
2. SITE FEATURES (I.E. PAVING, CURB & GUTTER, BUILDINGS) SHOWN IN DASHED LINE TYPE ARE PART OF ABANDONED TREATMENT PLANT. MOST FEATURES WERE PREVIOUSLY DEMOLISHED UNDER SEPARATE CONTRACT TO 3 FEET BELOW FINAL GRADE. SOME UNDERGROUND COMPONENTS, SUCH AS BUILDING/STRUCTURE FOUNDATIONS, MAY REMAIN.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING BUILDINGS, PAVEMENT, UTILITIES, EQUIPMENT, ETC., NOTED TO BE REMOVED WITHIN THE DEMOLITION LIMITS AS SHOWN ON THE DEMOLITION PLAN.
4. ALL EXISTING PIPE TO BE ABANDONED SHALL BE CUT, AND PLUGGED OR CAPPED AT EACH END. WHERE EXISTING PIPING INTERFERES WITH NEW PIPING OR CONSTRUCTION, IT SHALL BE REMOVED BEYOND THE LIMITS REQUIRED FOR THE PROPER COMPLETION OF THE WORK AND THE OPEN ENDS PLUGGED OR CAPPED UNLESS OTHERWISE SHOWN. LINES SHALL BE PLUGGED OR CAPPED AT LEAST 12-INCHES BEHIND OR BELOW FINISH BUILDING SURFACE AND AT LEAST 12-INCHES BELOW PROPOSED GRADE SURFACE.

DEMOLITION NOTES (CONTINUED)

5. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITY LINES, PIPES, VAULTS, OR BOXES PRIOR TO COMMENCING WORK. ANY DAMAGE INCURRED TO ANY EXISTING UTILITY ELEMENTS DESIGNATED TO REMAIN SHALL BE REPAIRED PROPERLY AND IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER.
6. ABANDONED UTILITIES OR UNDERGROUND UTILITIES SERVING OR CROSSING THE PREMISES MAY EXIST THAT ARE NOT SHOWN ON THE DRAWING. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES ON SITE PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT OCCURS DURING CONSTRUCTION.
7. UTILITIES SHOWN ARE IN PART COMPILED FROM VARIOUS RECORD DRAWINGS PROVIDED BY THE OWNER. UTILITIES MAY EXIST THAT ARE NOT SHOWN AS PART OF THIS COMPILATION. SOME UTILITIES SHOWN MAY HAVE BEEN PARTIALLY OR COMPLETELY DEMOLISHED UNDER SEPARATE CONTRACT.
8. ALL UNDERGROUND UTILITIES WITHIN BUILDING FOOTPRINT SHALL BE REMOVED.
9. ALL UNDERGROUND UTILITIES 6 INCHES OR LARGER LOCATED WITHIN THE LIMIT OF DISTURBANCE AND HAVING 3 FT OF COVER OR LESS SHALL BE REMOVED.
10. CONTRACTOR SHALL STRIVE TO MAXIMIZE ALL RECYCLABLE MATERIALS AND DESIGNATE A STOCKPILE AREA ON SITE TO BE APPROVED BY THE OWNER, FOR ALL MATERIALS.
11. CONTRACTOR TO RESTORE ALL IMPACTED STREET PAVEMENT MARKINGS TO THEIR ORIGINAL CONDITION.
12. ALL MATERIALS GENERATED BY THE DEMOLITION ARE TO BE DISPOSED OF BY THE CONTRACTOR AT A LICENSED OFFSITE FACILITY.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO ANY BUILDING, STRUCTURE OR UTILITY NOT INTENDED FOR DEMOLITION. THE CONTRACTOR SHALL RESTORE ANY DAMAGED FACILITY TO CONDITION PRIOR TO THE ERRANT DEMOLITION OPERATIONS.
14. THE CONTRACTOR SHALL INSTALL ALL INITIAL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO DEMOLITION OPERATIONS BEGINNING.
15. SEE EROSION CONTROL PLAN FOR TREE PROTECTION.

GRADING NOTES:

1. CONTRACTOR SHALL NOT WORK FILL MATERIALS DURING UNFAVORABLE WEATHER CONDITIONS. CONTRACTOR SHALL NOT PERMIT EQUIPMENT TO BE USED IN SUCH A MANNER AS TO CAUSE EQUIPMENT TO EXCESSIVELY BUMP OR RUT THE SUBGRADE OR OTHER PREPARED AREAS.
2. CONTRACTOR SHALL GRADE IN A MANNER TO ESTABLISH LONG SMOOTH GRADIENTS IN ORDER TO REDUCE ABRUPT CHANGES, DIPS AND SHARP TRANSITIONS IN THE FINISHED GRADE.
3. CONTRACTOR SHALL STRIP ALL TOPSOIL AND ORGANIC MATTER FROM AREAS TO BE DISTURBED. ALL UNSUITABLE MATERIAL TO BE REMOVED FROM SITE AS DIRECTED BY OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE ON GRADED SURFACE AREAS AT 1% MINIMUM ON HARDSCAPE AT 2% MINIMUM ON GRADE UNLESS OTHERWISE INDICATED.
5. EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
6. MAXIMUM CUT OR FILL SLOPES ARE 3 HORIZONTAL TO 1 VERTICAL.
7. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
8. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
9. ALL DISTURBED AREAS NOT RECEIVING A SURFACE SHALL BE COVERED IN GRASS.
10. CONTRACTOR TO FURNISH ASBUILT STORM DRAIN SYSTEM INCLUDING LOCATION, SIZE, AND INVERT ELEVATIONS.

GEORGIA REGISTERED No. 16700 PROFESSIONAL ENGINEER — 01-04-2025

NO.	DATE	REVISION	CHK	APVD
DSGN	P. PURCELL	DR P. AKINOSHO	C. HENSLEY	APVD P. PURCELL
3	11/2024	ISSUED FOR BID	SA	PP
2	06/2024	90% DESIGN DRAWINGS	SA	PP
1	03/25/24	60% DESIGN DRAWINGS	SA	PP
0	01/25/24	30% DESIGN DRAWINGS	PA	PP

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

NOTES AND LEGEND

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	G-02
SHEET	2 of 2

ISSUED FOR BID

HISTORIC SIGN

FLOOD HAZARD AR LIMITS
PER FEMA FIRMETTE
PANEL 13063C0088F

N/F
AEL G GECIK
EL #13239D B011
EL #13239D B015

SSMH=842.39
IE IN(E)=829.29
IE IN(SE)=831.19
IE OUT=829.27

SSMH=844.09
FILLED WITH WATER

SSMH=848.76
IE IN(N)=835.66
IE IN(E)=830.46
IE IN(SE)=844.91
IE IN(SW)=834.21
IE OUT=830.53

N/F
JOSEPH A JR & GLADYS F GRIMAUD
TAX PARCEL #13239D B022
TAX PARCEL #13239D B023

SSMH=854.75
IE=NOT OBTAINED

G-100
5/8"
RBC(eGPS)
N:1282349.761
E:2236588.539
Z:858.759

SIDEWALK
DECK
WOOD FENCE
SHED
WOOD FENCE
ASPHALT
BILLBOARD
GRAVEL
GATE
BRICK PAVERS
CONCRETE SIDEWALK
BRICK PAVERS

LAND LOT 239
APPROXIMATE LAND LOT LINE
LAND LOT 242

25' STREAM BUFFER
SSE 20' PER PROVIDED SITE PLAN
374 OTP
1/2"REBAR
BROWN VINYL FENCE

N/F
ENDLESS SOLUTIONS INC
TAX PARCEL #13242B A018
DB 12748 PG 217

CONCRETE
ASPHALT
CONCRETE
BRICK PAVERS
CONCRETE SIDEWALK
BRICK PAVERS

IE=834.5±
(OPEN END OF 8"±DIP)
TOP(15"±DIP)=833.8±
TOP(15"±DIP)=834.8±

SDMH=854.39
IE IN=847.69
TOP OF H20=837±
BOTTOM(DIRT/DEBRIS)=829.4±

<-8'X8' BOX CULVERT
(PER GDOT PI#0007922 DRAWING#13-07)

<-8'X8' CMP
(PER PROVIDED
SITE PLAN)

SDMH/DWCB=857.97
IE IN=851.97
IE OUT=850.92

<-18"RCP

CHAIN LINK FENCE
CHAIN LINK FENCE
GATE
CHAIN LINK FENCE
1/2"REBAR
SIGN
CONCRETE SIDEWALK
BRICK PAVERS

10523

CMP
REMNANT
ELEVATION=832.6±

SSMH=848.56
IE IN(SE)=835.06
IE IN(S)=834.96
IE OUT=834.56

25' STREAM BUFFER

CHAIN LINK FENCE
ASPHALT

N/F
LOOP SOUTHSIDE PROPERTIES LLC
TAX PARCEL #13242B A017
DB 11454 PG 12

CONCRETE
CONCRETE

1-STORY
BRICK

FFE=855.05

I.E.=845.34
<-12"RCP

DI=850.81
IE OUT=846.28

ASPHALT

BLD
BLD

SIGN

ASPHALT

PKNAIL

SR 3/US 19/41

10313

FLOOD HAZARD AR LIMITS
PER FEMA FIRMETTE
PANEL 13063C0088F

N

0 20' 40'

NO.	DATE	DSGN	DR	CHK	APVD	REVISION
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	P. PURCELL	ISSUED FOR BID
2	06/2024					90% DESIGN DRAWINGS
1	03/2024					60% DESIGN DRAWINGS
0	01/25/24					30% DESIGN DRAWINGS

SA	PP	
SA	PP	
SA	PP	
PA	PP	
BY	APVD	

GEORGIA
REGISTERED
No. 16700
PROFESSIONAL
ENGINEER
01-04-2025

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EXISTING CONDITIONS

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	V-00
SHEET	3 of 18

ISSUED FOR BID

J:\EEXJ6937\500.DESIGN\410.CAD\712SHTS

FILENAME: V-00 EXISTING CONDITIONS

PLOT DATE: 2024-12-23

PLOT TIME: 1:35 PM

DEMOLITION NOTES

1. THE CONTRACTOR SHALL SUBMIT A DETAILED DEMOLITION PROCEDURE TO THE OWNER FOR APPROVAL AT LEAST 10 DAYS BEFORE DEMOLITION IS TO BEGIN. THE DEMOLITION PROCEDURE SHALL INCLUDE A DETAILED DESCRIPTION OF THE METHODS AND EQUIPMENT TO BE USED FOR EACH OPERATION AND THE SEQUENCE OF WORK. THE DEMOLITION PROCEDURES SHALL PROVIDE FOR SAFE CONDUCT OF WORK AND THE PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED AND COORDINATION WITH OTHER WORK OR OPERATIONS THAT MAY BE IN PROGRESS. METHODS AND SCHEDULING OF DEMOLITION ACTIVITIES MUST BE APPROVED BY THE OWNER.
2. LOCATIONS OF EXISTING FACILITIES AND UTILITIES ARE TAKEN FROM THE SURVEY PERFORMED BY ACCURA ENGINEERING, DATED 11/28/22. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES.
3. THE CONTRACTOR SHALL DEMOLISH AND REMOVE THE EXISTING BUILDING, SLAB, PAVEMENT, UTILITIES, EQUIPMENT, ETC. NOTED TO BE REMOVED WITHIN THE DEMOLITION LIMITS AS SHOWN ON THIS PLAN.
4. CONTRACTOR TO PROVIDE AND MAINTAIN NECESSARY FENCES, BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT THE DEMOLITION AND CONSTRUCTION ACTIVITIES ON THE SITE.
5. CONTACTOR SHALL MINIMIZE THE IMPACT OF CONSTRUCTION ACTIVITIES ON THE TRAFFIC FLOW TO SURROUNDING BUSINESSES.
6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION ACTIVITIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXISTNG SERVICE CONNECTIONS FROM THE BUILDING AND PERMANENTLY CAPPING UTILITIES TO BE REMOVED WHERE REQUIRED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANIES CONCERNED.
8. CONTRACTOR SHALL SAWCUT TO FULL PAVEMENT, SIDEWALK AND CURB AND GUTTER DEPTH AT THE LIMIT OF DEMOLITION FOR REMOVAL OF PAVEMENT, SIDEWALK AND CURB AND GUTTER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO ANY ADJACENT AREA NOT INTENDED FOR DEMOLITION. THE CONTRACTOR SHALL RESTORE ANY DAMAGED AREA TO PRE-CONSTRUCTION CONDITIONS.
10. ALL SALVAGEABLE METAL MATERIALS SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE CLEANED AND STORED ON THE OWNER'S PROPERTY AS DIRECTED BY THE OWNER.
11. NO DEBRIS FROM SITE DEMOLITION SHALL BE BURIED ON SITE. ALL MATERIAL GENERATED FROM DEMOLITION OPERATION SHALL BE PROPERLY DISPOSED OF OFFSITE.
12. THE CONTRACTOR SHALL INSTALL ALL INITIAL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO DEMOLITION OPERATIONS BEGINNING.

HISTORIC SIGN

N/F
AEL G GECIK
EL #13239D B011
EL #13239D B015

SSMH=842.39
IE IN(E)=829.29
IE IN(SE)=831.19
IE OUT=829.27

SSMH=844.09
FILLED WITH WATER

SSMH=848.76
IE IN(N)=835.66
IE IN(E)=830.46
IE IN(SE)=844.91
IE IN(SW)=834.21
IE OUT=830.53

N/F
JOSEPH A JR & GLADYS F GRIMAUD
TAX PARCEL #13239D B022
TAX PARCEL #13239D B023

SSMH=854.75
IE=NOT OBTAINED

G-100
5/8"
RBC(eGPS)
N:1282349.761
E:2236588.539
Z:858.759

SIDEWALK
DECK
WOOD FENCE
SHED
ASPHALT
BILLBOARD
GRAVEL DRIVEWAY
GATE
CONCRETE
CONCRETE SIDEWALK
BRICK PAVERS
CHAIN LINK FENCE
1 STORY BRICK
BLD
SIGN
10523
10313

REMOVE EXISTING CURB & GUTTER
REMOVE EXISTING CONCRETE PAD
REMOVE EXISTING ASPHALT PAVEMENT
EXISTING SITE SECURITY FENCE TO REMAIN. CONTRACTOR TO PROVIDE ADDITIONAL MEASURES AS NEEDED TO SECURE THE WORK AREA.
LAND LOT 239
APPROXIMATE LAND LOT LINE
LAND LOT 242
REMOVE EXISTING 112" X 75" CORRUGATED ARCH PIPE ALONG ESTABLISHED CREEK AS SHOWN ON CU-101
REMOVE EXISTING STRUCTURE AND REPLACE WITH A NEW STRUCTURE AS SHOWN ON CU-101
REMOVE EXISTING ASPHALT FOR PIPE INSTALLATION
REMOVE LESLIE POOL SIGN
REMOVE EXISTING CONCRETE PAVEMENT
REMOVE EXISTING CONCRETE PAVEMENT
REMOVE ABANDONED SANITARY SEWER TO THIS POINT. (PLUG OPEN END)
REMOVE EXISTING INFILTRATION TRENCH BMP INCLUDING 2 - 1' THICK, 15' LONG AND APPROXIMATELY 4' DEEP CONCRETE WALLS

25' STREAM BUFFER
PER 2017 PROVIDED SITE PLAN
PER 2017 PROVIDED SITE PLAN
3/4" OTP
N/F
EUDLESS SOLUTIONS INC
TAX PARCEL #13242B A018
DB 12748 PG 217
IE=834.5±
(OPEN END OF 8" ±DIP)
TOP(15" ±DIP)=833.8±
TOP(15" ±DIP)=834.9±
EXISTING SANITARY SEWER TO BE MAINTAINED.
EXISTING 8x6.5 STORM SEWER TO BE REMOVED.
CMP REMNANT ELEVATION=827.1±
SSMH=848.56
IE IN(SE)=835.06
IE IN(S)=834.96
IE OUT=834.56
25' STREAM BUFFER
I.E.=845.34
N/F
LOOP SOUTHSIDE PROPERTIES LLC
TAX PARCEL #13242B A017
DB 11454 PG 12
<-12"RCP
DS=850.01
IE OUT=845.28
LIMIT OF PAVEMENT REMOVAL
EXISTING STORM DRAIN TO REMAIN
APPROXIMATE EXTENT OF PAVEMENT TO PROPERTY LINE (THIS AREA WAS NOT INDICATED ON THE SURVEY)
TEMPORARY SECURITY FENCE
APPROXIMATE EXTENT OF PAVEMENT TO PROPERTY LINE (THIS AREA WAS NOT INDICATED ON THE SURVEY)
PLANTER
EXISTING BUILDING AND LOADING DOCK TO BE REMOVED
TEMPORARY SECURITY FENCE
PKNAIL
SDMH=854.39
IE IN=847.69
TOP OF H20=837±
BOTTOM(DIRT/DEBRIS)=829.4±
<-8'X8' BOX CULVERT
(PER GDOT PI#0007922 DRAWING#13-07)
SDMH/DWCB=857.97
IE IN=851.97
IE OUT=850.92
<-18"RCP
SR 3/US 19/41

N
0 20' 40'

NO.	DATE	REVISION	BY	APVD
3	11/2024	ISSUED FOR BID	SA	PP
2	06/2024	90% DESIGN DRAWINGS	SA	PP
1	03/25/24	60% DESIGN DRAWINGS	SA	PP
0	01/25/24	30% DESIGN DRAWINGS	PA	PP

DSGN P. PURCELL DR P. AKINOSHO CHK C. HENSLEY APVD P. PURCELL

GEORGIA REGISTERED No. 16700 PROFESSIONAL ENGINEER
01-14-2025

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

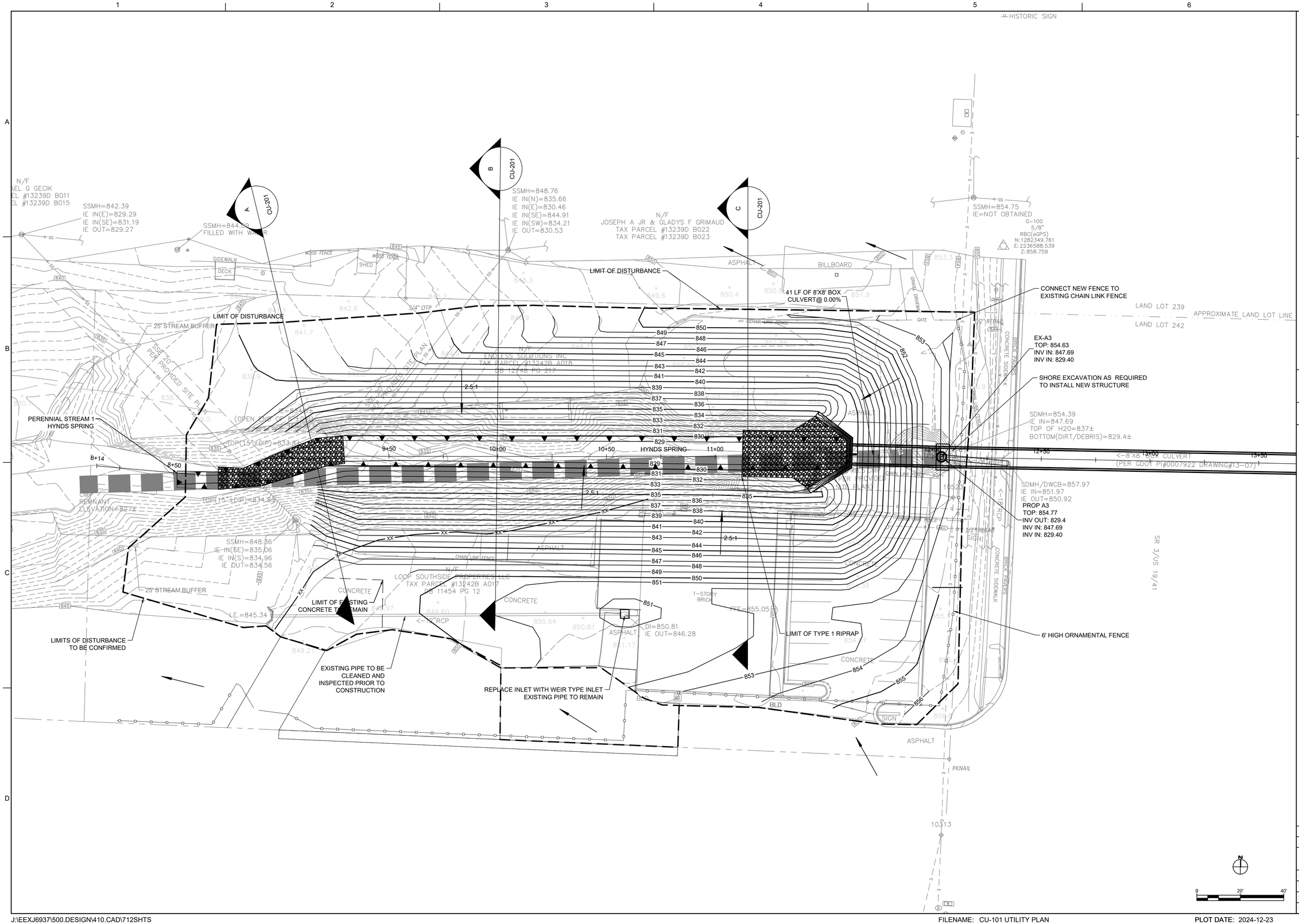
Jacobs

CIVIL
DEMOLITION PLAN

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CM-101
SHEET	4 of 18

ISSUED FOR BID



10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

GRADING AND DRAINAGE PLAN

NO.	DATE	DSGN	DR	CHK	APVD
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	P. PURCELL
2	06/2024				
1	03/2024				
0	01/25/24				

REVISION

ISSUED FOR BID	SA	PP
90% DESIGN DRAWINGS	SA	PP
60% DESIGN DRAWINGS	SA	PP
30% DESIGN DRAWINGS	PA	PP
	BY	APVD

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CU-101
SHEET	5 of 18

ISSUED FOR BID

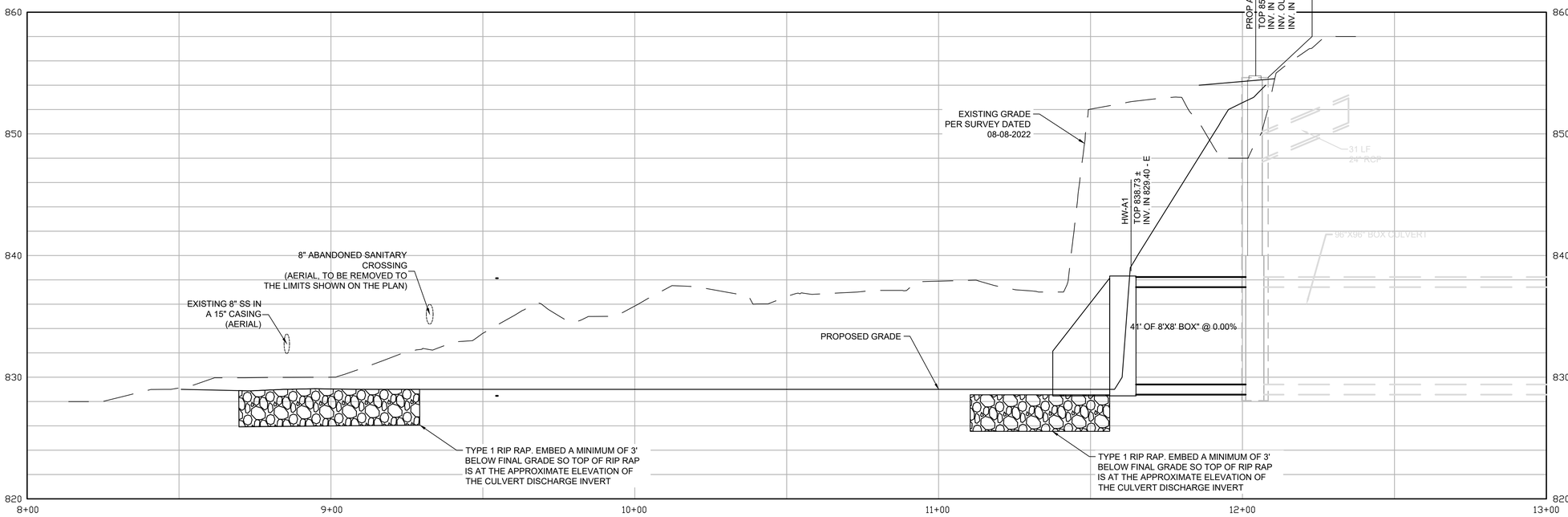
GEORGIA REGISTERED No. 16709 PROFESSIONAL ENGINEER
01-14-2025

J:\EEXJ6937\500.DESIGN\410.CAD\712SHTS

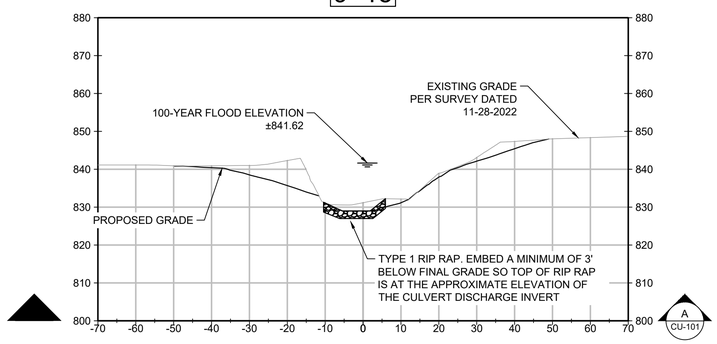
FILENAME: CU-101 UTILITY PLAN

PLOT DATE: 2024-12-23

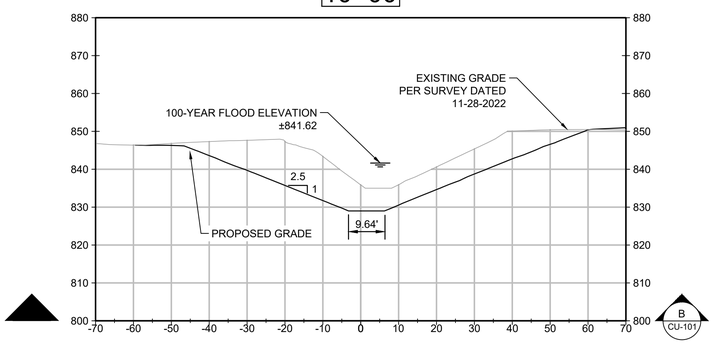
PLOT TIME: 1:13 PM



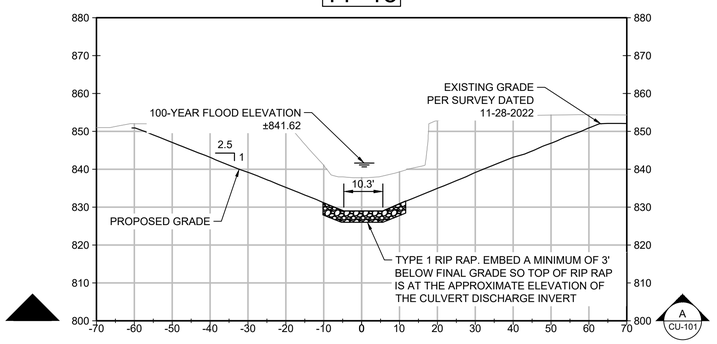
9+15



10+00



11+15



N

0 20' 40'

GEORGIA
REGISTERED
No. 16700
PROFESSIONAL
ENGINEER
01-14-2025

NO.	DATE	DSGN	DR	CHK	APVD
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	P. PURCELL
2	06/2024	ISSUED FOR BID			
1	03/2024	90% DESIGN DRAWINGS			
0	01/25/24	60% DESIGN DRAWINGS			
		30% DESIGN DRAWINGS			
		REVISION			

	SA	PP	
	SA	PP	
	SA	PP	
	PA	PP	
	BY	APVD	

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

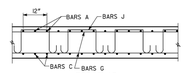
UTILITY PROFILE

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CU-201
SHEET	6 of 18

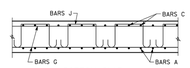
ISSUED FOR BID

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TOP SLAB

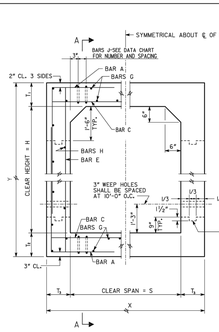
NOTE) SPACING OF BARS A AND C IS 6" OR 12". SEE BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS.



BOTTOM SLAB

NOTE) LONGITUDINAL WINGWALL AND PARAPET BARS EXTEND INTO BARREL. SEE WINGWALL AND PARAPET STANDARDS.

SECTION A-A



TYPICAL BARREL SECTION-ALL DESIGNS

CULVERT SIZES ARE DESIGNATED AS CLEAR SPAN (S) X CLEAR HEIGHT (H).

* AT CONTRACTORS OPTION, THE LOWER CONSTRUCTION JOINT IN THE BARREL WALL MAY BE SHIFTED TO 6" ABOVE THE TOP OF THE BOTTOM SLAB.

DESIGN MAXIMUM FILL HEIGHT	1 10'	2 20'	3 30'	4 40'	5 50'	6 60'	7 70'	8 80'

1) MINIMUM HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 1'-0".

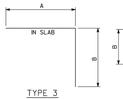
2) DESIGN OF THE CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.

3) TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED NORMAL TO THE CENTERLINE OF THE CULVERT AT THE OUTSIDE SHOULDER BREAK POINTS. THE MAXIMUM POUR LENGTH ALONG THE LENGTH OF THE CULVERT SHALL NOT EXCEED 40'-0" FOR DESIGNS 1 TO 3 AND 30'-0" FOR DESIGNS 4 AND ABOVE.

4) LONGITUDINAL BARREL REINFORCEMENT STEEL IN THE TRANSVERSE CONSTRUCTION JOINTS SHALL EXTEND THROUGH JOINTS.

5) CONSTRUCTION JOINTS SHALL BE WATERPROOFED ON THE EXTERIOR TOP AND SIDES OF BARREL IN ACCORDANCE WITH SECTION 530 OF GEORGIA STANDARD SPECIFICATIONS. WATERPROOFING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE BID FOR ITEMS ASSOCIATED WITH CONSTRUCTING SHALL BE INCLUDED IN OTHER ITEMS AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

TYPE I



TYPE 3

TYPE 6

A = 12" + DIAMETER BAR A + 1"
B = T_1 + 3"

FOR BAR DIMENSIONS SEE BAR REINFORCEMENT DETAILS. NUMBER OF J BARS SHOWN IN DATA CHART IS THE NUMBER PER CORNER IN ANY ONE TRANSVERSE PLANE. THE TOTAL NUMBER OF J BARS REQUIRED DEPENDS UPON THE LENGTH OF THE SECTION.

GENERAL NOTES

1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.

2) ALL CONCRETE SHALL BE CLASS "AA".

3) CHAMFER ALL EXPOSED EDGES ¾".

4) COST OF DRAIN PIPES, WEEP HOLES, COARSE AGGREGATE, AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.

5) CONSTRUCTION JOINTS IN BARREL WALLS ARE REQUIRED.

6) FOR DETAILS OF WINGWALLS AND PARAPETS SEE "REINFORCED CONCRETE WINGWALLS, TOEWALLS AND PARAPETS FOR CONCRETE BOX CULVERTS" SHEETS.

DESIGN DATA

SPECIFICATIONS - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.
TYPICAL HL-93 LOADING.

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE
SINGLE BOX CULVERT

NO SCALE — SEPTEMBER 2017

DES. ISS.	SUBMITTED	STATE DESIGN POLICY ENGINEER	NUMBER
DRN. ISS.			2401
TRA.	APPROVED	CHIEF ENGINEER	SHEET 1 OF 3
CHK. JRS.			

WINGWALLS, TOEWALLS AND PARAPETS

CLEAR HEIGHT	N BARS AT 1'-0" C. TO C. SIZE	NO. CONSTANT LENGTHS	LENGTH	NO. VARIABLE LENGTHS	LENGTH * SHORTEST	LENGTH * LONGEST	P BARS AT 1'-0" C. TO C. SIZE	NO. CONSTANT LENGTHS	LENGTH	NO. VARIABLE LENGTHS	LENGTH SHORTEST	LENGTH LONGEST	R BARS AT 1'-0" C. TO C. SIZE	NO. VARIABLE LENGTHS	LENGTH ** SHORTEST	LENGTH ** LONGEST	M BARS SIZE	NO. CONSTANT LENGTHS	LENGTH	CLEAR HEIGHT
2"	#4	4	5'-4"	12	4'-4"	5'-2"	#4	20	3'-5"	4	1'-2"	1'-7"	#6	32	3'-6"	3'-6"	#6	14	X+2"	2"
3"	#4	4	6'-1"	24	4'-4"	6'-5"	#4	20	6'-4"	8	1'-8"	4'-2"	#6	56	3'-6"	3'-6"	#6	14	X+2"	3"
4"	#5	4	8'-2"	40	4'-5"	8'-2"	#4	20	9'-10"	12	2'-11"	7'-9"	#6	88	3'-6"	3'-6"	#6	14	X+2"	4"
5"	#5	4	9'-7"	44	4'-11"	9'-0"	#4	20	11'-3"	16	2'-11"	10'-4"	#6	96	3'-6"	3'-6"	#6	14	X+2"	5"
6"	#5	4	11'-2"	48	5'-5"	9'-11"	#4	24	12'-7"	16	2'-11"	10'-5"	#6	104	3'-6"	3'-6"	#6	14	X+2"	6"
7"	#5	4	11'-2"	56	5'-11"	11'-2"	#4	24	13'-11"	20	3'-0"	13'-0"	#6	120	3'-6"	3'-6"	#6	14	X+2"	7"
8"	#6	4	12'-4"	60	6'-4"	12'-1"	#4	28	15'-2"	24	3'-2"	13'-0"	#6	128	3'-8"	4'-0"	#6	14	X+2"	8"
9"	#6	4	13'-5"	64	7'-0"	13'-2"	#4	28	16'-6"	24	3'-4"	15'-7"	#6	136	3'-8"	4'-6"	#6	14	X+2"	9"
10"	#7	4	14'-7"	72	7'-8"	14'-7"	#4	32	17'-9"	24	3'-4"	15'-7"	#6	152	3'-8"	5'-0"	#6	14	X+2"	10"
11"	#7	4	15'-7"	76	8'-2"	15'-6"	#4	32	19'-1"	28	3'-4"	18'-2"	#6	160	3'-8"	5'-6"	#6	14	X+2"	11"
12"	#8	4	16'-8"	80	8'-9"	16'-6"	#4	36	20'-5"	28	3'-5"	18'-3"	#6	168	3'-8"	6'-0"	#6	14	X+2"	12"

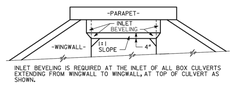
* LENGTH INCLUDES VERTICAL LEG, HORIZONTAL LEG AND 180° STANDARD HOOK.
** LENGTH INCLUDES 2 STANDARD 180° HOOKS.

X = TOTAL BARREL WIDTH OUT TO OUT (DIMENSION "X" FROM CULVERT SHEET)
Y = TOTAL BARREL HEIGHT OUT TO OUT (DIMENSION "Y" FROM CULVERT SHEET)

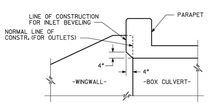
DIMENSIONS AND QUANTITIES

CLEAR HEIGHT	H	W_1	W_2	S	M	T_1	Z	CY CLASS AA CONCRETE	LBS. BAR REINF. STEEL	CLEAR HEIGHT
2"	3'-1"	1'-1"	2'-0"	1'-1"	2'-8"	10"	-	3.3	270	2"
3"	4'-3½"	2'-3½"	2'-0"	2'-1½"	5'-1"	10"	-	6.0	499	3"
4"	5'-3"	3'-3"	2'-0"	3'-1"	9'-2"	10"	-	9.2	795	4"
5"	6'-3"	4'-3"	2'-6"	3'-7"	10'-6"	10"	-	12.4	1083	5"
6"	7'-3"	4'-3"	3'-0"	3'-7"	11'-0"	10"	-	15.0	1246	6"
7"	8'-9½"	5'-3½"	3'-6"	3'-7½"	13'-2"	10"	-	17.9	1507	7"
8"	9'-10½"	5'-10½"	4'-0"	3'-8½"	14'-5"	12"	1'-0"	25.3	2070	8"
9"	10'-11"	6'-5"	4'-6"	3'-9"	15'-9"	12"	1'-6"	29.9	2345	9"
10"	11'-11"	6'-11"	5'-0"	3'-9"	17'-0"	12"	2'-0"	34.7	3277	10"
11"	12'-11"	7'-5"	5'-6"	3'-9"	18'-4"	12"	2'-6"	40.0	3676	11"
12"	13'-11½"	7'-11½"	6'-0"	3'-9½"	19'-8"	12"	3'-0"	45.8	4788	12"

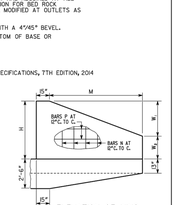
QUANTITIES GIVEN INCLUDE WINGWALL, WINGWALL FOOTING, AND WINGWALL TOEWALL FOR BOTH ENDS.



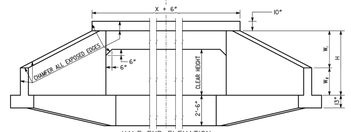
INLET BEVELING IS REQUIRED AT THE INLET OF ALL BOX CULVERTS EXTENDING FROM WINGWALL TO WINGWALL, AT TOP OF CULVERT AS SHOWN.



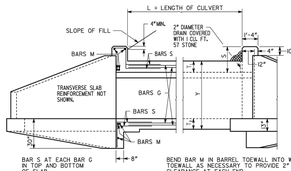
INLET BEVELING DETAIL



ELEVATION OF WING



HALF END ELEVATION

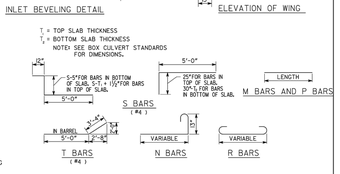


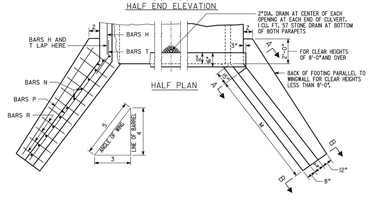
PART SECTION

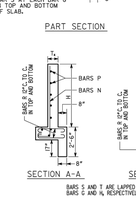
SIDE VIEW

PART ELEVATION

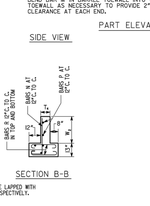
T = TOP SLAB THICKNESS
T_1 = BOTTOM SLAB THICKNESS
NOTE) SEE BOX CULVERT STANDARDS FOR DIMENSIONS.







SECTION A-A



SECTION B-B

BARS S AND T ARE LAPPED WITH BARS G AND N, RESPECTIVELY.

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE WINGWALLS, TOEWALLS AND PARAPETS FOR CONCRETE BOX CULVERTS

NO SCALE — SEPTEMBER 2017

DES. ISS.	SUBMITTED	STATE DESIGN POLICY ENGINEER	NUMBER
DRN. ISS.			2404
TRA.	APPROVED	CHIEF ENGINEER	SHEET 1 OF 1
CHK. ISS.			

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

SINGLE 8'-0" X 7'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	454A @ 6"	457A @ 6"	556A @ 6"	561A @ 6"	622A @ 6"			
BAR C	706 @ 12"	520 @ 6"	618 @ 6"	707 @ 6"	708 @ 6"			
BAR E	430 @ 12"	431 @ 12"	432 @ 12"	433 @ 12"	434 @ 12"			
BAR G IN 2 SLABS	28 - 401	28 - 401	28 - 401	28 - 401	28 - 401			
BAR H IN 2 WALLS	20 - 402	20 - 402	20 - 402	20 - 402	20 - 402			
BAR J IN EXT. CORNER	0	2	3-405 @ 8½"	3-436 @ 9"	4-466 @ 10"			
T_1	12"	13"	14"	15"	16"			
T_2	13"	14"	15"	16"	17"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	9'-3"	9'-3"	9'-5"	9'-7"	9'-9"			
10" CLASS AA CONCRETE/FT	1.299	1.448	1.539	1.662	1.787			
LB BAR REINF STEEL/FT	152.4	145.0	196.0	216.3	234.1			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
10" CLASS AA CONCRETE	4.6	4.8	4.9	5.2	5.3			
LB BAR REINF STEEL	728	730	732	733	735			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
10" CLASS AA CONCRETE	4.8	5.0	5.2	5.3	5.5			
LB BAR REINF STEEL	884	888	892	896	900			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.4	5.6	5.8	6.0	6.1			
LB BAR REINF STEEL	932	936	940	944	950			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
10" CLASS AA CONCRETE	6.6	6.9	7.2	7.5	7.8			
LB BAR REINF STEEL	1058	1064	1070	1076	1082			

SINGLE 8'-0" X 8'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	462A @ 6"	464A @ 6"	565A @ 6"	567A @ 6"	626A @ 6"			
BAR C	519 @ 6"	520 @ 6"	618 @ 6"	707 @ 6"	708 @ 6"			
BAR E	436 @ 12"	437 @ 12"	520 @ 12"	522 @ 12"	523 @ 12"			
BAR G IN 2 SLABS	28 - 401	28 - 401	28 - 401	28 - 401	28 - 401			
BAR H IN 2 WALLS	22 - 402	22 - 402	22 - 402	22 - 402	22 - 402			
BAR J IN EXT. CORNER	0	2	3-405 @ 8½"	3-436 @ 9"	4-466 @ 10"			
T_1	12"	13"	14"	15"	16"			
T_2	13"	14"	15"	16"	17"			
T_3	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	10'-3"	10'-3"	10'-5"	10'-7"	10'-9"			
10" CLASS AA CONCRETE/FT	1.373	1.498	1.626	1.755	1.886			
LB BAR REINF STEEL/FT	152	153.0	234.5	260.0	316.6			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
10" CLASS AA CONCRETE	4.8	5.0	5.2	5.4	5.5			
LB BAR REINF STEEL	754	758	762	766	770			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.0	5.2	5.4	5.6	5.8			
LB BAR REINF STEEL	760	764	768	772	776			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.6	5.8	6.0	6.2	6.5			
LB BAR REINF STEEL	959	963	968	972	977			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
10" CLASS AA CONCRETE	6.9	7.2	7.4	7.7	8.0			
LB BAR REINF STEEL	1085	1078	1097	1103	1109			

SINGLE 8'-0" X 9'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	474A @ 6"	476A @ 6"	575A @ 6"	577A @ 6"	630A @ 6"			
BAR C	519 @ 6"	520 @ 6"	618 @ 6"	707 @ 6"	708 @ 6"			
BAR E	442 @ 12"	524 @ 12"	525 @ 12"	444 @ 6"	445 @ 6"			
BAR G IN 2 SLABS	28 - 401	28 - 401	28 - 401	28 - 401	28 - 401			
BAR H IN 2 WALLS	26 - 402	26 - 402	26 - 402	26 - 402	26 - 402			
BAR J IN EXT. CORNER	0	2	3-405 @ 8½"	3-436 @ 9"	4-466 @ 10"			
T_1	12"	13"	14"	15"	16"			
T_2	13"	14"	15"	16"	17"			
T_3	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	11'-0"	11'-3"	11'-5"	11'-7"	11'-9"			
10" CLASS AA CONCRETE/FT	1.448	1.579	1.712	1.847	1.985			
LB BAR REINF STEEL/FT	166.6	170.5	247.6	273.6	345.0			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.0	5.2	5.4	5.6	5.8			
LB BAR REINF STEEL	803	804	806	808	810			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.2	5.4	5.6	5.8	6.0			
LB BAR REINF STEEL	960	964	968	972	976			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.8	6.0	6.3	6.5	6.7			
LB BAR REINF STEEL	1009	1013	1018	1023	1028			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
10" CLASS AA CONCRETE	7.2	7.5	7.8	8.0	8.3			
LB BAR REINF STEEL	1137	1143	1149	1155	1161			

SINGLE 8'-0" X 10'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	476A @ 6"	704A @ 12"	575A @ 6"	634A @ 6"	636A @ 6"			
BAR C	519 @ 6"	520 @ 6"	618 @ 6"	707 @ 6"	708 @ 6"			
BAR E	529 @ 12"	530 @ 12"	447 @ 6"	714 @ 12"	715 @ 12"			
BAR G IN 2 SLABS	28 - 401	28 - 401	28 - 401	28 - 401	28 - 401			
BAR H IN 2 WALLS	28 - 402	28 - 402	28 - 402	28 - 402	28 - 402			
BAR J IN EXT. CORNER	0	2	3-405 @ 8½"	3-446 @ 9"	4-466 @ 10"			
T_1	12"	13"	14"	15"	16"			
T_2	13"	14"	15"	16"	17"			
T_3	12"	13"	14"	15"	16"			
X	10'-0"	10'-2"	10'-4"	10'-6"	10'-8"			
Y	12'-0"	12'-3"	12'-5"	12'-7"	12'-9"			
10" CLASS AA CONCRETE/FT	1.522	1.659	1.798	1.940	2.083			
LB BAR REINF STEEL/FT	185.4	219.6	268.4	362.8	473.5			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.1	5.4	5.6	5.8	6.0			
LB BAR REINF STEEL	827	831	835	839	843			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL								
10" CLASS AA CONCRETE	5.4	5.6	5.8	6.0	6.2			
LB BAR REINF STEEL	985	989	993	996	1000			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL								
10" CLASS AA CONCRETE	6.0	6.2	6.5	6.7	6.9			
LB BAR REINF STEEL	1034	1039	1043	1048	1052			
PARAPET, BARREL, END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL								
10" CLASS AA CONCRETE	7.4	7.7	8.0	8.3	8.6			
LB BAR REINF STEEL	1163	1169	1175	1181	1187			

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REINFORCED CONCRETE
SINGLE BOX CULVERT
8'X7', 8'X8', 8'X9' AND 8'X10'

NO SCALE — SEPTEMBER 2017

DES. ISS.	SUBMITTED	STATE DESIGN POLICY ENGINEER	NUMBER
DRN. ISS.			2401
TRA.	APPROVED	CHIEF ENGINEER	SHEET 2-1 OF 3
CHK. JRS.			

GEORGIA REGISTERED No. 19700 PROFESSIONAL ENGINEER
PAUL J. PURCELL
01-19-2025

NO.	DATE	DSGN	DR	CHK	APVD
2	06/2024	PP	SA	PP	APVD
1	03/2024	SA	PP		
0	01/25/24	PA	PP	BY	P. PURCELL
			P. PURCELL	C. HENSLEY	
			P. AKINOSHO		

90% DESIGN DRAWINGS
60% DESIGN DRAWINGS
30% DESIGN DRAWINGS
REVISION

Jacobs
CIVIL
10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

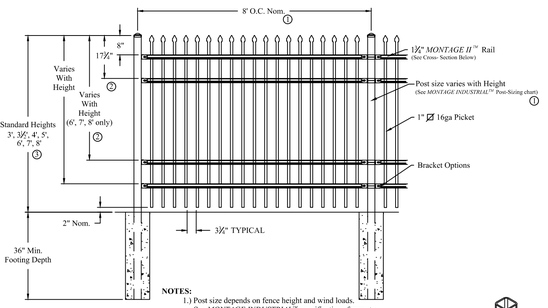
CONSTRUCTION DETAILS

ISSUED FOR BID

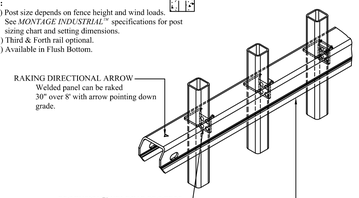
AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

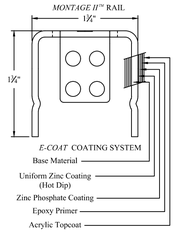
DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CU-501
SHEET	7 of 18

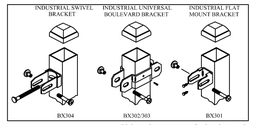
J:\EEXJ6937\500.DESIGN\410.CAD\712SHTS — FILENAME: CU-501 DETAILS — PLOT DATE: 2024-12-23 — PLOT TIME: 1:16 PM



NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE INDUSTRIAL™* specifications for post sizing chart and setting dimensions.
2.) Third & Forth rail optional.
3.) Available in Flush Bottom.







HEAVY INDUSTRIAL STRENGTH WELDED STEEL PANEL
PRE-ASSEMBLED

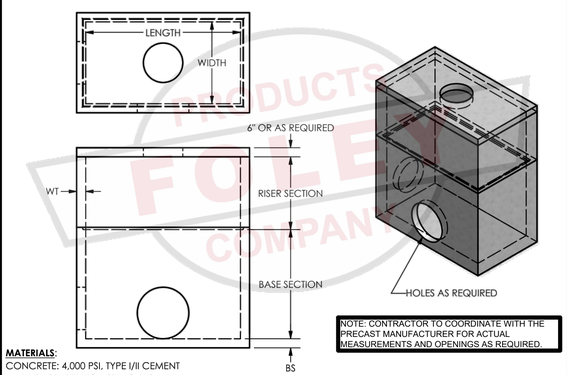
Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

2RCISO

MONTAGE INDUSTRIAL CLASSIC 2/3/4-RAIL			
DR: CI	SH . 1of 1	SCALE: DO NOT SCALE	
CK: ME	Date 6/28/10	REV: b	

AMERISTAR®
1555 N. Mingo
Tulsa, OK 74116
1-888-333-3422
www.ameristarfence.com

	RISER SECTION						BASE SECTION		
LENGTH	WIDTH	WT	BS	MIN	MAX	VF TONS	MIN	MAX	SLAB TONS
2'-0"	2'-0"	6"	6"	1'-0"	4'-0"	0.38	1'-0"	4'-0"	0.34
4'-0"	2'-0"	6"	6"	1'-0"	4'-0"	0.53	1'-0"	4'-0"	0.56
3'-0"	3'-0"	4"	4"	1'-0"	3'-0"	0.33	1'-0"	3'-0"	0.34
3'-0"	3'-0"	6"	6"	1'-0"	6'-0"	0.53	1'-0"	6'-0"	0.60
4'-0"	4'-0"	6"	6"	1'-0"	6'-0"	0.68	1'-0"	6'-0"	0.94
4'-3"	3'-0"	8"	8"	1'-0"	4'-0"	0.86	1'-0"	4'-0"	1.21
5'-0"	5'-0"	6"	6"	1'-0"	6'-0"	0.83	1'-0"	6'-0"	1.35
6'-0"	6'-0"	6"	6"	1'-0"	8'-0"	0.98	1'-0"	8'-0"	1.84
8'-0"	8'-0"	6"	6"	1'-0"	5'-0"	1.28	1'-0"	5'-0"	3.04
8'-6"	4'-6"	6"	6"	1'-0"	4'-0"	1.05	1'-0"	6'-0"	1.96
8'-0"	6'-0"	6"	6"	1'-0"	6'-0"	1.13	1'-0"	6'-0"	2.36
10'-0"	3'-0"	8"	8"	1'-0"	5'-0"	1.43	1'-0"	5'-0"	2.46
10'-0"	5'-0"	6"	6"	1'-6"	6'-0"	1.20	1'-0"	6'-0"	2.48
12'-0"	6'-0"	6"	6"	1'-6"	6'-0"	1.43	1'-0"	6'-0"	3.41



NOTE: CONTRACTOR TO COORDINATE WITH THE PRECAST MANUFACTURER FOR ACTUAL MEASUREMENTS AND OPENINGS AS REQUIRED.

MATERIALS:
CONCRETE: 4,000 PSI, TYPE I/II CEMENT
MANUFACTURED TO ASTM C-913
GRADE 60 REINFORCEMENT

NOTES:
PULL-IN-IRONS, SUMPS, INSERTS AND OTHER HARDWARE AVAILABLE FOR SPECIAL UTILITY APPLICATIONS
AASHTO H20 DESIGN LOADING AVAILABLE

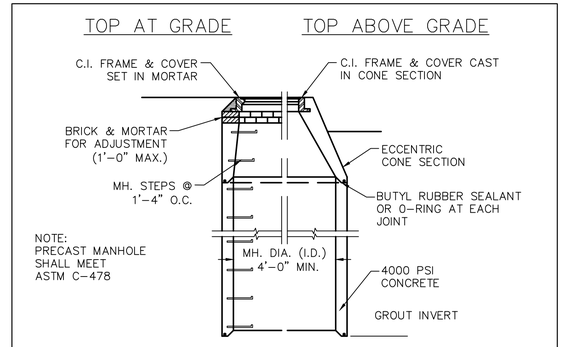
PARTS SHOWN:
9'-6"L x 5'-6"W x 6"THICK SLAB TOP WITH Ø26"
8'-6"L x 4'-6"W x 4'-0"H 6"WALL RISER
8'-6"L x 4'-6"W x 6'-0"H 6"WALL 6"THICK BASE
Ø34" HOLE AT 0°
Ø28" HOLE AT 90° UP 6"

PRODUCTS FOLEY COMPANY

BOX

STANDARD BOX FORMS

2.3

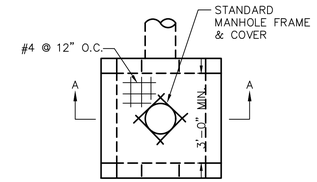


NOTE:
PRECAST MANHOLE SHALL MEET ASTM C–478

STANDARD MANHOLE RISER DETAIL

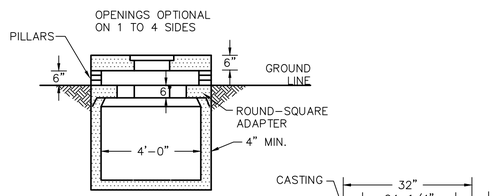
NTS

04000

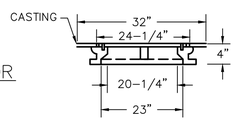


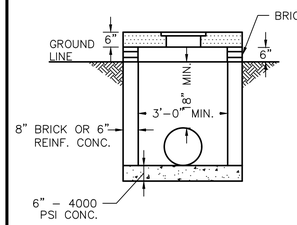
PLAN

NOTE:
OPENINGS OPTIONAL ON 1 TO 4 SIDES



ALTERNATE SECTION FOR PRECAST BOX





SECTION A–A

STANDARD MANHOLE FRAME & COVER

NOTE:

SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR. REINFORCEMENT STEEL TO BE PLACED TO ALLOW A MINIMUM OF 2" CLEARANCE, EXCEPT WHERE NOTED. REINFORCEMENT STEEL SHALL BE OF INTERMEDIATE GRADE AND SHALL BE 0.12 IN. PER SQ. FT. IN BOTH DIRECTIONS IN ACCORDANCE WITH A.S.T.M. C 478–02A MANHOLE SPECIFICATIONS. ALL CONCRETE SHALL BE 4,000 P.S.I.

WEIR TYPE DROP INLET

NTS

04502

GEORGIA REGISTERED No. 16700 PROFESSIONAL ENGINEER
01-14-2025

NO.	DATE	DSGN	DR	CHK	REVISION
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	ISSUED FOR BID
2	06/2024				90% DESIGN DRAWINGS
1	03/2024				60% DESIGN DRAWINGS
0	01/25/24				30% DESIGN DRAWINGS

SA	PP
SA	PP
SA	PP
PA	PP
BY	APVD

APVD P. PURCELL

Jacobs
10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

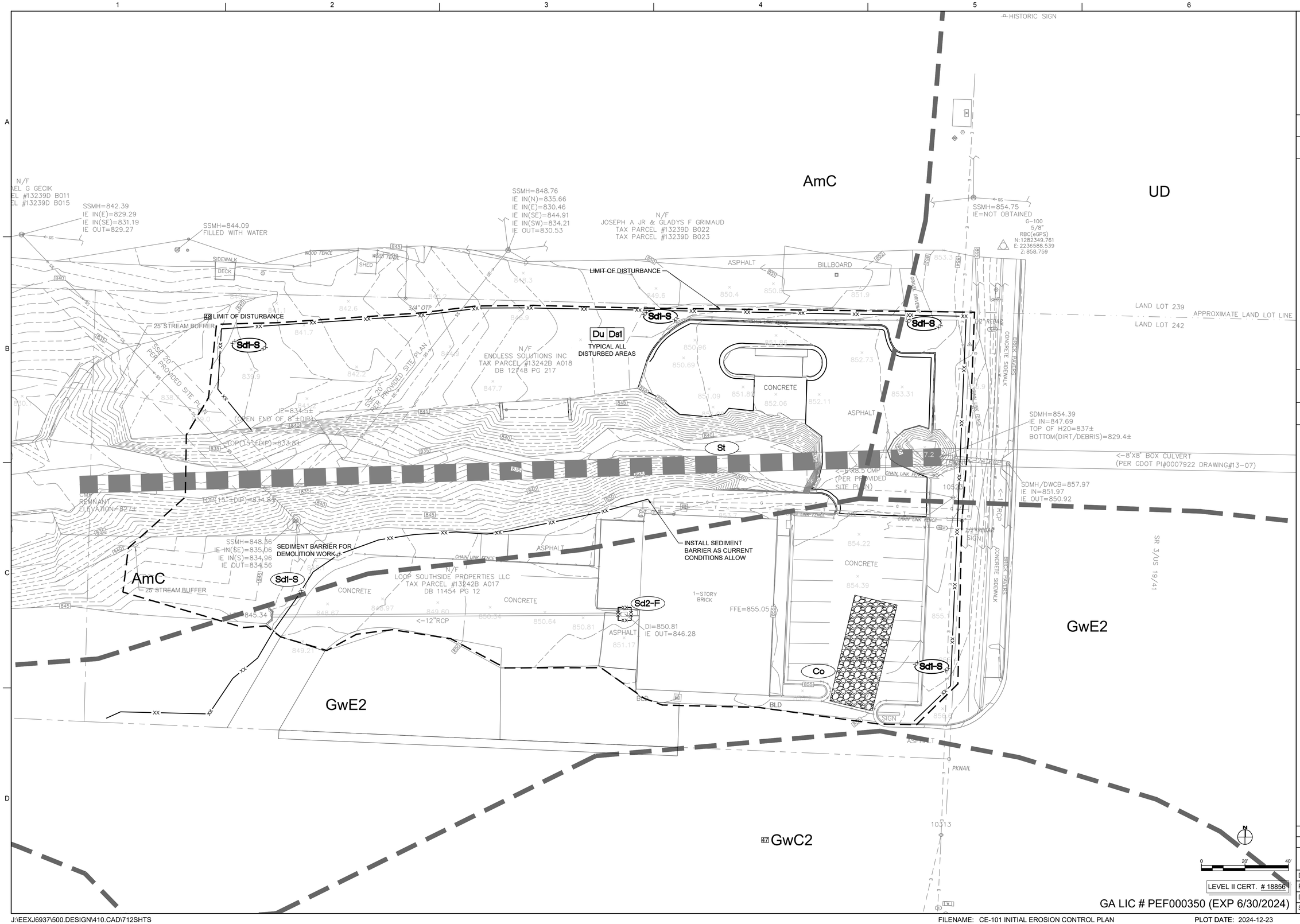
TARA BOULEVARD STORM DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

CIVIL
CONSTRUCTION DETAILS

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CU-502
SHEET	8 of 18

ISSUED FOR BID



GA LIC # PEF000350 (EXP 6/30/2024)

NO.	DATE	DSGN	DR	CHK	APVD
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	P. PURCELL
2	06/2024				
1	03/2024				
0	01/25/24				

	ISSUED FOR BID	SA	PP
	90% DESIGN DRAWINGS	SA	PP
	60% DESIGN DRAWINGS	SA	PP
	30% DESIGN DRAWINGS	PA	PP
	REVISION	BY	APVD

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

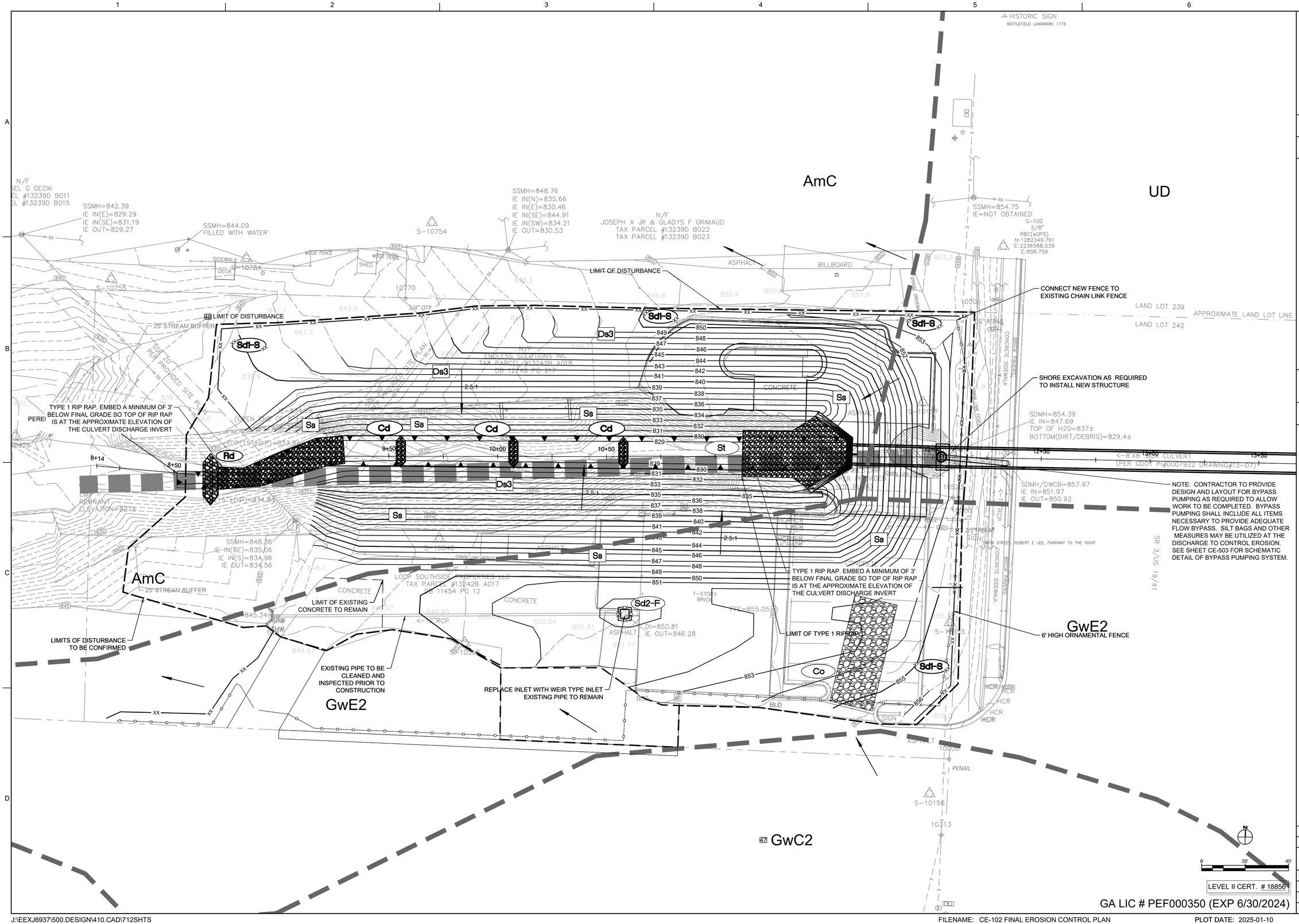
CIVIL

INITIAL EROSION CONTROL PLAN

AS SHOWN	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-101
SHEET	9 of 18

LEVEL II CERT. # 18856

ISSUED FOR BID



GA LIC # PEF000350 (EXP 6/30/2024)

LEVEL II CERT. # 18856

NO.	DATE	REVISION	BY	APVD
DSGN	P. PURCELL	DR P. AKINOSHO	CHK C. HENSLEY	APVD P. PURCELL
3	11/2024	ISSUED FOR BID	SA	PP
2	06/2024	90% DESIGN DRAWINGS	SA	PP
1	03/2024	60% DESIGN DRAWINGS	SA	PP
0	01/24/24	30% DESIGN DRAWINGS	PA	PP

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

FINAL EROSION CONTROL PLAN

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-102
SHEET	10 of 18

ISSUED FOR BID

OWNER/DEVELOPER:

CLAYTON COUNTY
WATER AUTHORITY
1600 BATTLE CREEK ROAD
MORROW, GA 30260
PHONE: (770) 961-2130

PRIMARY PERMITTEE/ OPERATOR
24 HOUR CONTACT:
3 4

KEVIN OSBEY
STORMWATER UTILITY DIRECTOR
PHONE: (770) 961-2130 (EXT. 5504)
EMAIL: KEVIN.OSBEY@CCWA.US

LEVEL II CERTIFIED DESIGNER:

JACOBS ENGINEERING GROUP INC.
10TH STREET NW, SUITE 1400
ATLANTA, GA 30309
PHONE: (404) 978-7600
CONTACT: PAUL PURCELL, P.E.
LEVEL II CERT #: 18856

SITE DESCRIPTION, PURPOSE, LOCATION & CONSTRUCTION ACTIVITY: 8

THE EXISTING SITE IS COMPRISED OF DEVELOPED PROPERTY IN CLAYTON COUNTY. THE SITE IS LOCATED IN A COMMERCIAL/INDUSTRIAL AREA IN JONESBORO, GA. THE SITE IS BORDERED BY AN TARA BLVD (US-HWY 41) TO THE EAST VETERANS PKWY TO THE NORTH AND RUNS ALONG A TRIBUTARY TO FLINT RIVER.

THE PROPOSED PROJECT INVOLVES REMOVAL OF A FAILED STORM DRAIN LINE AND RE-ESTABLISHING THE NATURAL CHANNEL TO IMPROVE STORM CONVEYANCE THROUGH THE PROPERTY, GRADING, AND REPLACEMENT/REHABILITATION OF EXISTING STORM STRUCTURES

THE AREAS ADJACENT TO THE SITE ARE MAINLY COMMERCIAL PROPERTIES. EXISTING LAND CONDITIONS INCLUDE SLOPES OF 6%-10%, WITH STEEP SLOPES ALONG THE TRIBUTARY OF 60%-70% DUE TO EROSION.

PROPERTY OWNERS
8405 TARA BOULEVARD PARCEL 1234B A018
PROPERTY OWNER: ENDLESS SOLUTIONS INC. (CLAYTON COUNTY WATER AUTHORITY(CCWA) HAS A PUBLIC NUISANCE ABATEMENT ISSUED BY THE JONESBORO MUNICIPAL COURT THAT ALLOWS CCWA ACCESS TO THE PROPERTY TO ADDRESS THE STORM DRAIN ISSUE.)

8415 TARA BOULEVARD, PARCEL 1324B A017
PROPERTY OWNER: CLAYTON COUNTY WATER AUTHORITY

TOTAL SITE AREA: 1.86 AC
TOTAL DISTURBED AREA: 1.44 AC 5

SOILS INFORMATION: 7

SOILS TYPES-DESCRIPTION	SYMBOL	PERMEABILITY
APPLING SANDY LOAM, 6 TO 10 PERCENT SLOPES	AmC	WELL DRAINED
GWINNETT SANDY LOAM, 6 TO 10 PERCENT SLOPES ERODED	GwC2	WELL DRAINED
GWINNETT SANDY CLAY LOAM, 10 TO 25 PERCENT SLOPES, ERODED	GwE2	WELL DRAINED
URBAN LAND	UD	N/A

SOIL LOCATIONS ARE LOCATED ON ALL PHASES OF THE EROSION CONTROL PLANS CONTAINED WITHIN.

SITE RUNOFF COEFFICIENT: 45

BEFORE CONSTRUCTION - CN = 73
AFTER CONSTRUCTION - CN = 69

SITE WETLANDS/STATE WATERS:

THERE ARE NO WETLANDS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE.
THERE ARE NO STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE.

RECEIVING WATERS 9

RECEIVING WATERS FROM THE SITE - FLINT RIVER

DRAINAGE DESCRIPTION

THE SITE CONTAINS HEAVY SLOPES DUE TO EROSION WITH SLOPES OF 6%-10% ADJACENT TO THE PROPERTY AND 60%-70% ALONG THE CREEK BED. THE EXISTING DRAINAGE FLOWS FROM NORTH AND SOUTH TOWARDS A CREEK THAT FLOWS FROM EAST TO WEST ALONG THE CENTER OF THE SITE. MUCH OF THE RUNOFF IN PROXIMITY TO THE SITE IS COLLECTED THROUGH STORM PIPING AND DIVERTED INTO THE CREEK. THE ENTIRE DRAINAGE BASIN IS APPROXIMATELY 267-ACRES OF ON-SITE AND OFF-SITE AREA.

STORMWATER MANAGEMENT & WATER QUALITY

THE DESIGN REMOVES ALL EXISTING IMPERVIOUS AREA FROM THE PROJECT SITE. NO NEW IMPERVIOUS AREA IS PLANNED FOR THE PROJECT SITE.

23

SCHEDULE OF MAJOR ACTIVITIES

DESCRIPTION	BEGIN CONSTRUCTION	(MONTHS AFTER BEGINNING CONSTRUCTION) 1	2	3	4	5	6
MAINTENANCE OF ALL EROSION CONTROL MEASURES							
INSTALLATION OF CNST EXIT, PERIMETER SILT FENCE, & TREE PROT. FENCE							
CLEARING AND GRUBBING							
INSTALL INTERMEDIATE EROSION CONTROL MEASURES							
STORM DRAIN/ CULVERT INSTALLATION							
MASS GRADING							
INSTALL FINAL PHASE EROSION CONTROL MEASURES							
REMOVE TEMPORARY EROSION MEASURES							

GENERAL EROSION CONTROL NOTES FOR ALL PHASES:

1. DURING CONSTRUCTION, THE CONTRACTOR/OWNER 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. NOTE THREE NOTIONAL ESPC PHASES ARE DESCRIBED OR SHOWN IN THESE DRAWINGS. ADDITIONAL BMPs MAY BE NECESSARY DUE TO CONTRACTOR/ OWNER CONSTRUCTION SEQUENCING AND/OR ESPCP SUB PHASES.
2. INITIAL, INTERMEDIATE, AND FINAL PHASES SHOWN ON PLANS ARE A SNAPSHOT OF TYPICAL BMPs REQUIRED DURING EACH RESPECTIVE PHASE OF CONSTRUCTION. SUB PHASING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ADDITIONAL BMPs SHALL BE DESIGNED AND INSTALLED AS APPLICABLE TO ACTUAL CONSTRUCTION ACTIVITIES.
3. EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, OR OTHER LOCAL HANDBOOKS.
4. A COPY OF THE APPLICABLE PLANS AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
6. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED.
7. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN STABILIZED WITH PERMANENT VEGETATION OR PAVING.
8. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 3:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET, SURFACE ROUGHED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
10. MAXIMUM CUT OR FILL SLOPES ARE 2 HORIZONTAL TO 1 VERTICAL.
11. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
12. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
13. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE SWALE/CONVEYANCE THE OPERATOR/CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC. FROM THE DRAINAGE CONVEYANCE IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES. OPERATOR/CONTRACTOR SHALL STABILIZE THE RESTORED AREA UPON SPOIL/DEBRIS REMOVAL.
14. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES MAY RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO NPDES STANDARDS.
15. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
16. AN UNDISTURBED BUFFER IS TO BE MAINTAINED ADJACENT TO ALL STATE WATERS ENCOUNTERED ON THE SITE. CURRENT STATE AND LOCAL REGULATIONS DETERMINE THE WIDTH OF THE BUFFER REQUIRED. EARTHWORK OPERATIONS IN THE VICINITY OF BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
17. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
18. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED, AS APPLICABLE.

CRITICAL WORK ZONES:

1. AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING.
2. ADDITIONALLY, ALL FILL SLOPES WHERE RUNOFF DRAINS TOWARDS THE TOP OF BANK SHALL RECEIVE A DIVERSION DIKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE.
3. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.

28

INITIAL PHASE EROSION CONTROL NOTES:

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:
1. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.
2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN.
3. SILT FENCE SHOULD BE INSTALLED AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-27.1. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BANNER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS APPLICABLE. SEE PLAN VIEW FOR SPECIFIC TYPE OF INLET PROTECTION REQUIRED.
5. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
6. STONE/HAYBALE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
7. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIERS ARE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN.
8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT TRAPS AND DIVERSION DIKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT TRAPS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE TRAPS WHEN IT REACHES ½ OF THE TOTAL SEDIMENT STORAGE VOLUME.
9. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR, OWNER, OR DESIGN PROFESSIONAL AS PART OF THE EXISTING ESPC PLANS/DRAWINGS.
10. WITHIN 7 DAYS OF COMPLETING 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 DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. FAILURE OF OBTAINING THIS INSPECTION IS A DIRECT VIOLATION OF THE NPDES PERMIT.

28

INTERMEDIATE PHASE EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE INTERMEDIATE PHASE OF CONSTRUCTION:
1. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
2. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM BMP FEATURES, DISPOSED OF, AND STABILIZED SO THAT IT WILL NOT ENTER INLETS AGAIN.
3. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
4. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
5. TYPE "S" SILT FENCE, SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES AND TOPSOIL/EARTH STOCKPILE AREAS. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-27.1. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUNOFF.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
7. ALL SLOPES STEEPER THAN 3:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATING OR BLANKETS.
8. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS APPLICABLE. SEE PLAN VIEW FOR SPECIFIC TYPE OF INLET PROTECTION REQUIRED.
9. STONE/HAYBALE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
10. ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

28

FINAL PHASE EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION:
1. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE BMP FEATURES, DISPOSED OF, AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
2. ALL DISTURBED AREAS SHOULD BE APPLIED WITH PERMANENT STABILIZATION COVER AS SOON AS FINAL GRADE IS ACHIEVED AND NO ADDITIONAL CONSTRUCTION IS PLANNED IN THE SUBJECT AREA.
3. WHEN FINAL STABILIZATION OCCURS, THE CONTRACTOR SHALL REMOVE ALL SILT FENCES, HAYBALE CHECK DAMS, AND INLET PROTECTION BARRIERS. ALL STORM OUTLET PROTECTION ARE TO REMAIN IN PLACE AND BE FREE OF SEDIMENT. FILTER RINGS AND STONE CHECK DAMS MAY BE REMOVED UPON FINAL STABILIZATION.

CERTIFICATION STATEMENTS

12
I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001. SAMPLING MAY BE EXEMPTED IF RUNOFF LEAVES THE SITE VIA SHEET FLOW AND NO CONCENTRATED CHANNELS OR RECEIVING WATERS ARE ADJACENT TO THE SITE.

11
I ALSO CERTIFY, UNDER PENALTY OF LAW, THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

GEORGIA LICENSED PROFESSIONAL

14 THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPs AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.

15 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

17 AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

18 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

19 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.

20 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.

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

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

ANY ADDITIONAL MEASURES DEEMED NECESSARY BY THE APPLICABLE AUTHORITY OR AN ON-SITE INSPECTION TEAM WILL BE INSTALLED WITHIN 7 DAYS.

SITE CONSTRUCTION NOTES:

1. SUBSTATION PAD AREA SHALL BE STABILIZED USING A THIN LAYER OF GRAVEL UNTIL COMPLETION OF SUBSTATION'S ELECTRICAL EQUIPMENT CONSTRUCTION. FOLLOWING ELECTRICAL CONSTRUCTION FINAL STABILIZATION SHALL BE GRAVEL PAD PLACED BY OTHERS AS SHOWN IN SITE PLAN. PLACEMENT OF FINAL GRAVEL OUTSIDE THE SUBSTATION GROUND GRID SHALL BE INCLUDED WITH THIS DESIGN PACKAGE AND COORDINATED WITH MEAG TO SYNC WITH OTHER CONSTRUCTION ACTIVITIES. CONTAINMENT BERMS SHALL BE CONSTRUCTED IMMEDIATELY FOLLOWING ELECTRICAL CONSTRUCTION.
2. ALL TEMPORARY MEASURES, INCLUDING Co, CWA, Fr, Sd1, Ds1 SHALL BE REMOVED UPON FINAL STABILIZATION OF GRAVEL SUBSTATION PAD.
3. CONTOUR ELEVATIONS SHOWN REPRESENT FINAL GRADE AT TOP OF GRAVEL AND/OR PAVEMENT.
4. CONTRACTOR TO CONFIRM AUTHORIZATION WITH MEAG FOR ANY ACCESS, CLEARING, DRIVEWAY, GRADING OR OTHER ENCROACHMENTS OUTSIDE THE PROPOSED PROPERTY LINE AND TRANSMISSION LINE EASEMENT SHOWN.
5. CONTRACTOR TO PROVIDE A TRAFFICABLE CONSTRUCTION DRIVE AND ACCESS ROUTE AROUND THE SITE AND TO/ALONG THE TRANSMISSION LINE EASEMENT WITH MULCH OR OTHER MATERIAL TO MINIMIZE DISTURBANCE BY CONSTRUCTION TRAFFIC. THIS DRIVE AND ROUTE SHOULD BE KEPT STABILIZED TO MINIMIZE EROSION.
6. MAINTENANCE OF ACCESS ROUTE SHALL INCLUDE EXISTING FEATURES WHICH PROVIDE ACCESS FROM THE PROPOSED WASHINGTON #03 SUBSTATION TO THE TIE-IN ALONG THE EXISTING GPC TRANSMISSION LINE, INCLUDING BUT NOT LIMITED TO DIRT AND GRAVEL ROADS, CULVERTS AND/OR FORD CROSSING. THESE FEATURES SHALL BE RESTORED TO EXISTING CONDITION OR BETTER AT CONCLUSION OF WORK. CONTRACTOR AND MEAG SHALL ENSURE ANY APPROPRIATE PERMITS OR APPROVALS ARE OBTAINED PRIOR TO ANY WORK IN THE RAIL RIGHT OF WAY.
7. CONSTRUCTION TRAFFIC IS LIMITED TO STABILIZED/MULCHED ACCESS ROUTE, EXCEPT IMMEDIATELY ADJACENT TO OR AROUND PROPOSED POLE PLACEMENT AREAS. THESE POLE PLACEMENT AREAS SHOULD HAVE ADEQUATE BMPs IN PLACE PRIOR TO CONSTRUCTION TRAFFIC, EXCEPT AS IS NECESSARY FOR INSTALLATION OF BMPs.
8. CLEAR AND IMMEDIATELY STABILIZE ALL ACCESS ROADS.
9. ACCESS ROUTES MAY REQUIRE MATTING TO PREVENT DISTURBANCE. RESTORE ACCESS ROUTE VEGETATION OR EXISTING STABILIZATION TO ORIGINAL CONDITION PRIOR TO DEMOBILIZATION.
10. IN ALL CASES, CLEARED AREAS SHOULD BE STABILIZED IMMEDIATELY FOLLOWING REMOVAL OF TIMBER MATTING OR BEFORE MOVING EQUIPMENT TO CLEAR ADDITIONAL AREA.
11. NO STAGING WITHIN WETLANDS AND STREAMS/STREAM BUFFERS.
12. ALL UTILITY WORK TO OCCUR WITHIN LIMITS OF DISTURBANCE, EXISTING POWER EASEMENTS, OR NEW SUBSTATION PARCEL/EASEMENT LIMITS.
13. ALL Sd1, Co AND Cd-S MUST BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
14. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND MAKING ADJUSTMENTS TO TYPE AND PLACEMENT OF BMPs THAT ARE FOUND TO CONFLICT WITH SITE FEATURES NOT NOTED OR SHOWN ON THE BASE MAP/ SURVEY INFORMATION.
15. UNLESS OTHERWISE NOTED, PREVIOUSLY IMPROVED AREAS SHALL BE RESTORED AS PER OWNER AGREEMENT AND/OR ORIGINAL CONDITIONS. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER FINAL STABILIZATION.
16. COMPLETE MULCH STABILIZATION IS REQUIRED WITHIN 30 FEET OF POLE INSTALLATION, OTHERWISE A BRUSH BERM, MULCH BERM, OR Sd1 SHOULD BE INSTALLED AROUND THE OUTSIDE LIMITS OF THE POLE INSTALLATION AREA.
17. PERMITTED CLEARING AND CONSTRUCTION WITHIN WETLANDS AND STREAM BUFFERS SHALL BE PERFORMED USING: EQUIPMENT OPERATING ON TIMBER MATTING, HAND TOOLS, OR SPECIAL EQUIPMENT THAT APPLIES SOIL PRESSURE EQUAL TO OR LESS THAN LOADED TIMBER MATTING. NO GRUBBING WITHIN WETLANDS OR STREAM BUFFERS. IN ALL CASES CLEARED AREAS SHOULD BE STABILIZED IMMEDIATELY FOLLOWING REMOVAL OF TIMBER MATTING OR BEFORE MOVING EQUIPMENT TO CLEAR ADDITIONAL AREA. THE MAXIMUM CLEARED AREA PRIOR TO STABILIZATION SHALL BE LESS THAN ONE ACRE.
18. CLEARING AND GRUBBING ACTIVITIES IN STREAM BUFFER AND WETLAND AREAS SHALL INVOLVE MINIMAL SOIL DISTURBANCE. ANY DISTURBED SOIL SHOULD BE RETURNED TO PRE-CONSTRUCTION CONTOURS AND INCLUDE THE APPROPRIATE PLANTINGS.

2 LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 18856 — 01-04-2025

NO.	DATE	REVISION	CHK	APVD
3	11/2024	ISSUED FOR BID	SA	PP
2	06/2024	90% DESIGN DRAWINGS	SA	PP
1	03/2024	60% DESIGN DRAWINGS	SA	PP
0	01/25/24	30% DESIGN DRAWINGS	PA	PP
DSGN	P. PURCELL	DR	P. AKINOSHO	BY	P. PURCELL

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EROSION CONTROL NOTES

ISSUED FOR BID

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-401
SHEET	11 of 18

NON-STORM WATER DISCHARGES
ALL NON-STORM WATER DISCHARGES WILL BE ROUTED THROUGH ON SITE BMPS AND THE STORM WATER MANAGEMENT SYSTEM WHERE POSSIBLE. THESE DISCHARGES INCLUDE FLUSHING OF WATER AND FIRE LINES, IRRIGATION WATER, GROUND WATER DEWATERING OF PITS OR DEPRESSIONS WITHIN THE CONSTRUCTION SITE AND RINSE OFF WATER OF NON-TOXIC MATERIALS.

OTHER CONTROLS
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

WASTE MATERIALS
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

27 BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS STORED ONSITE AND EXPOSED TO PRECIPITATION SHALL BE COVERED WITH PLASTIC SHEETING OR A CONSTRUCTED TEMPORARY COVER.

HAZARDOUS WASTES
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. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'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. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
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. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES.
IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES
A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR 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.
ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER 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 SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN INTERMEDIATE PHASE SHEET(S) BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

OFFSITE VEHICLE TRACKING
A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT, SEE INCLUDED PAGES FOR CONSTRUCTION EXIT LOCATION AND DETAILS. THE PAVED STREET ADJACENT TO WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

SPILL PREVENTION
PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS, AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

GOOD HOUSEKEEPING
1. QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
4. PRODUCT MIXING DISPOSAL AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE STORAGE AND DISPOSAL.

PRODUCT SPECIFIC PRACTICES
25 PETROLEUM BASED PRODUCTS: CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORM WATER 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.
PAINTS/FINISHES/SOLVENTS: ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
24 CONCRETE TRUCK WASHING: THE PLAN INCLUDES BEST MANAGEMENT PRACTICES FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPER AND REAR OF THE TRUCKS. WASH DOWN OF CONCRETE TRUCK DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
FERTILIZER/HERBICIDES: THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE. SEE 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.
BUILDING MATERIALS: NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF USING PROPER WASTE DISPOSAL PROCEDURES.

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 AVAILABLE 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.
4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
5. 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 OR 1-202-426-2675.
6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802 OR 1-202-426-2675.
7. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTED, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
8. 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.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE(THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE 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.

MULCH STORAGE REQUIREMENT:
MULCH STORAGE MUST COMPLY WITH THE FOLLOWING SECTION OF THE STANDARD FIRE PREVENTION CODE. SECTION 502.3.1 NO PERSON SHALL STORE IN ANY BUILDING OR UPON ANY PREMISES IN EXCESS OF 2.500 CUFT. GROSS VOLUME OF COMBUSTIBLE EMPTY PACKING CASES, BOXES, BARRELS OR SIMILAR CONTAINERS, OR RUBBER TIRES, RUBBER OR CORK OR OTHER SIMILARLY COMBUSTIBLE MATERIALS WITHOUT A PERMIT.

SAMPLING PLAN:
SAMPLING OF THE RECEIVING WATER BODY WAS DETERMINED TO OFFER THE MOST ECONOMICAL AND SIMPLISTIC MEASURE OF POTENTIAL CONSTRUCTION RELATED POLLUTION. ONE UPSTREAM & DOWNSTREAM MONITORING LOCATION IS CONSIDERED NECESSARY TO ASSESS THE CONTRIBUTORY EFFECTS OF THE PROPOSED CONSTRUCTION. A MONITORING POINT WILL BE PLACED AT EACH LOCATION (LABELED 1A & 1B). SAMPLING LOCATIONS ARE SHOWN ON USGS MAP ON THIS SHEET.

31 SAMPLING PROCEDURES:
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.
(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
(2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
(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 FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
(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. OF THE NPDES PERMIT.

31 THE FOLLOWING EVENTS SHALL BE SAMPLED:
(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE NPDES 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.
(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
- (A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THE NPDES PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
- (B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THE NPDES PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A 'NOT', IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- (C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL 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 EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- (D). WHERE SAMPLING PURSUANT TO (A), (B), (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B), OR (C) ABOVE; AND
- (E). 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). THOSE 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 SAMPLING AT ANY TIME OF THE DAY OR WEEK.

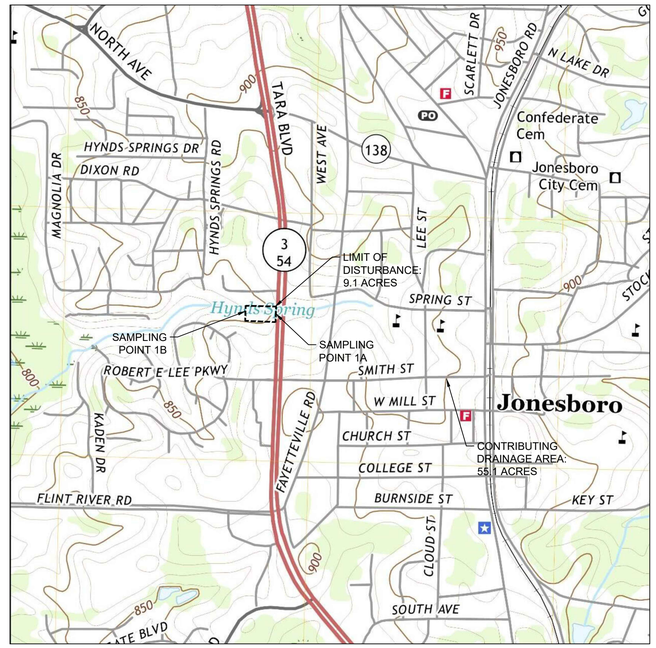
MONITORING RESULTS:
THE RECEIVING WATER SUPPORTS WARM WATER FISHERIES. THE PRIMARY PERMITTEE HAS ELECTED TO SAMPLE UPSTREAM AND DOWNSTREAM LOCATIONS. THE CHANGE IN NTU VALUES SHALL NOT EXCEED 25 NTU.

Warm Water (Supporting Warm Water Fisheries)
Surface Water Drainage Area, square miles

Site Sizes, acres	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

TOTAL SITE AREA: 1.86 AC
TOTAL DISTURBED AREA: 1.44 AC
THE ENTIRE DRAINAGE BASIN IS APPROXIMATELY 267-ACRES OF ON-SITE AND OFF-SITE AREA.

31 SAMPLING RESULTS ARE TO BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. BY THE 15TH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD.



USGS MAP
SCALE: 1"=1000'

CERTIFICATION STATEMENTS
13 "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLE RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER. SAMPLING MAY BE EXEMPTED IF RUNOFF LEAVES THE SITE VIA SHEET FLOW AND NO CONCENTRATED CHANNELS OR RECEIVING WATERS ARE ADJACENT TO THE SITE."

Paul R Purcell — 18856
LEVEL II CERTIFICATION #

2 LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)

GEORGIA — REGISTERED — No. 18856 — PROFESSIONAL — ENGINEER — Paul R Purcell — 01-14-2025

NO.	DATE	DSGN	DR	CHK	REVISION
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	ISSUED FOR BID
2	06/2024				90% DESIGN DRAWINGS
1	03/2024				60% DESIGN DRAWINGS
0	01/25/24				30% DESIGN DRAWINGS

	APVD
SA	PP
SA	PP
SA	PP
PA	PP
BY	APVD

P. PURCELL

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EROSION CONTROL NOTES

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-402
SHEET	12 of 18

ISSUED FOR BID

3.0 INSPECTIONS

DESIGN PROFESSIONAL

1) THE DESIGN PROFESSIONAL WHO PREPARED THIS EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN IS REQUIRED TO INSPECT THE INSTALLATION OF THE BMPS WITHIN SEVEN (7) AFTER INITIAL PERIMETER CONTROLS HAVE BEEN INSTALLED.

PRIMARY PERMITTEE

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.

2) MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY, AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE 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.

3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE 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 AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE, (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, AND (C) 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 A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OR ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4) OF THE GENERAL NPDES PERMIT. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

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 AT TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OR ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FAR 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).

5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION 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.

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.A.(5) OF THE GENERAL NPDES 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 PHASED 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 ANY INCIDENTS, 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 THE GENERAL NPDES PERMIT.

MAINTENANCE

REGULAR COMPREHENSIVE SITE INSPECTIONS OF EROSION AND SEDIMENTATION CONTROLS WILL BE PERFORMED. A QUALIFIED PROFESSIONAL WILL PERFORM ALL INSPECTION DUTIES OR WILL SUPERVISE, AT ALL TIMES, ANOTHER TRAINED INDIVIDUAL. THE PRIMARY PERMITTEE WILL OVERSEE ALL INSPECTIONS AND IMMEDIATELY BE INFORMED OF ANY CONCERNS OR PROBLEMS. IF, THROUGH THE COURSE OF INSPECTION, IT IS DETERMINED INADEQUATE, THE APPLICABLE PORTION OF THE PLAN WILL BE REVISED AND REVISIONS SHALL BE FULLY IMPLEMENTED WITHIN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.

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. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.

NPDES NOTES:

1. EXCEPT AS PROVIDED IN PART IV.(III) OF THE NPDES PERMIT, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED, OR ALONG ANY EPHEMERAL STREAM, OR WHERE BULKHEADS AND SEAWALLS MUST BE CONSTRUCTED TO PREVENT EROSION OF THE SHORELINE ON LAKE OCONEE AND LAKE SINCLAIR. PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED,THE BUFFER SHALL NOT APPLY TO THOSE LAND-DISTURBING ACTIVITIES OUTLINED IN SECTION IV.I.1-IV.I.8.
2. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS 'TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED,THE BUFFER SHALL NOT APPLY TO THOSE LAND-DISTURBING ACTIVITIES OUTLINED IN SECTION IV.II.1-IV.II.8.
3. EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV.(I). AND (II). OF THE NPDES PERMIT, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THIS PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.
4. THE PROJECT SITE DOES NOT DISCHARGE STORMWATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.

3.0 3.3 RECORD RETENTION

PRIMARY PERMITTEE

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. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
B. A COPY OF EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE NPDES PERMIT;
C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART 1V.A.5. OF THE NPDES PERMIT;
D. A COPY OF ALL SAMPLING INFORMATION, RESULTS AND REPORTS REQUIRED BY THE NPDES PERMIT;
E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THE NPDES PERMIT;
F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THE NPDES PERMIT; AND
G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(2) OF THE NPDES PERMIT

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 TO BE COVERED BY THIS PERMIT 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 THE NPDES PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR A DESIGNATED ALTERNATIVE LOCATION 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.

SEDIMENT STORAGE REQUIREMENTS:

SEDIMENT STORAGE FOR THE SITE IS PROVIDED BY SILT FENCE IN AREAS SHEET FLOWING OFF SITE AND CHECK DAMS IN SWALES. THE TABLE BELOW PROVIDES A SUMMARY OF THE STORAGE MEASURES. IN ADDITION, THE CONTRACTOR SHALL FOLLOW THESE STRICT GUIDELINES TO PREVENT SEDIMENT FROM LEAVING THE WORK AREAS:

1. PRIOR TO CLEARING, ALL CONSTRUCTION ENTRANCES AND SILT FENCE BARRIERS SHALL BE IN PLACE. SILT FENCE SHALL BE PLACED IN ALL AREAS THAT BOUND STREAMS, CREEKS AND WETLANDS.
2. CONTRACTOR SHALL ONLY ENTER AND LEAVE FROM INSTALLED CONSTRUCTION ENTRANCES.
3. AT THE END OF EVERY WORK DAY, ALL EXCAVATED AREAS SHALL BE BACKFILLED AND TEMPORARILY MULCHED AND SEEDED FOR STABILIZATION. ALL SILT FENCE DAMAGED IN THAT DAY'S WORK SHALL BE CLEANED OUT AND REPAIRED WHERE NEEDED.
4. ANY DISTURBED AREAS LEFT DORMANT FOR A PERIOD OF GREATER THAT 14 DAYS SHALL BE TEMPORARILY SEEDED.
5. ANY DEWATERING OPERATIONS SHALL NOT DISCHARGE SILTED/MUDDY WATER INTO CREEKS, STREAMS OR DRAINAGE WAYS.
6. NO CREEKS, STREAMS OR DRAINAGE WAYS SHALL BE BLOCKED FOR MORE THAN 1 WORKING DAY.
7. ALL AREAS WHERE STEEP SLOPES (GREATER THAN 4:1) ARE BEING DISTURBED, SLOPE MATTING SHALL BE INSTALLED AFTER BACKFILLING IS COMPLETE.
8. ADHERE TO SPECIFIC SITE NOTES ON EACH PHASE OF THE ESPCP THAT MAY BE MORE RESTRICTIVE THAN PERMIT REQUIREMENTS.

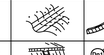
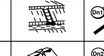
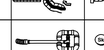
TEMPORARY SEDIMENT STORAGE DETAILS	
DISTURBED AREA (AC)	0.71
STORAGE REQUIRED (@ 67 CY/AC)	48
STORAGE PROVIDED (CY)	1498

*SEDIMENT FENCE STORAGE:
TOTAL SILT FENCE LENGTH = 390.32 LF
SILT FENCE HEIGHT = 2'-4"
SEDIMENT CLEAN OUT HEIGHT = 1'-2"
TYPICAL SLOPE = 33.5%
1 LF SILT FENCE = 0.0748 C.Y. STORAGE
PROVIDED STORAGE = 390.32 L.F. X (0.0748 C.Y.)
= 29.2 C.Y.

CHECK DAM STORAGE:
NUMBER OF CHECK DAMS = 34
CHECK DAM HEIGHT = 2'
SEDIMENT CLEANOUT HEIGHT = 1'
CHECK DAM AVG WIDTH = 6.0'
TYPICAL SLOPE = 1.5 %
1 CHECK DAM = 200 C.F. STORAGE
PROVIDED STORAGE = 38 X 200 C.F. = 7600 C.F.
= 281 C.Y.

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

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 traveway 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.
St	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 CHANNEL			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)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	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)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cc	FLOCCULANTS AND COAGULANTS		Fl-Cc	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)		Sb	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		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GaSWCC (Amended - 2013)

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

NO.	DATE	REVISION	CHK	DR
3	11/2024	90% DESIGN DRAWINGS	SA	PP
2	06/2024	60% DESIGN DRAWINGS	SA	PP
1	03/2024	30% DESIGN DRAWINGS	SA	PP
0	01/25/24	ISSUED FOR BID	PA	PP
DSGN	P. PURCELL	P. AKINOSHO	BY	APVD

C. HENSLEY APVD
P. PURCELL

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EROSION CONTROL NOTES

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-403
SHEET	13 of 18

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.

ISSUED FOR BID

2 LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS GAR100002

SWCD: REGION 14_____

Project Name:TARA BOULEVARD PIPE REHAB_____ **Address: 8405 TARA BOULEVARD JONESBORO, GA**_____
Local Issuing Authority:CLAYTON COUNTY_____ **Date on Plans: 1/6/2025**_____
Name & Email of person filling out checklist: PAUL PURCELL, PE PAUL.PURCELL@JACOBS.COM_____

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
CE-404	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. **Permit IV.D.1. pg 28**
ALL	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, **after completion of a GSWCC approved course**, and whose signature and seal are on the Plan.
CE-401	Y	3	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
CE-401	Y	4	Provide the name, address, email address, and phone number of Primary Permittee.
CE-401	Y	5	Note total and disturbed acreages of the project or phase under construction.
		6	Provide the GPS locations of the beginning and end of the infrastructure project. Give the Latitudes and Longitudes in decimal degrees.
ALL	Y	7	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
CE-401	Y	8	Descriptions of the nature of construction activity and existing site conditions.
CE-402	Y	9	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
CE-401	Y	10	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
CE401	Y	11	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 21** of the permit.
CE-401	Y	12	Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 21** of the permit. *
CE-402	Y	13	Design professional certification statement and signature that the Permittee's ES&PC Plan provides for representative sampling as stated on **Part IV.D.6.c.(3). page 37** of the permit as applicable. *
CE401	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect **and certify** the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
CE401	Y	15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
		16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
CE401	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
CE401	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
CE401	Y	19	Clearly note statement that "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."
CE401	Y	20	Clearly note statement that "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."
CE-401	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
		22	Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with **Part III.C.** of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
		23	If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
CE-402	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *
CE-402	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
CE-401	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
CE-402	Y	27	Description of practices to provide cover for building materials and building products on site. *
CE-401	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
CE-401	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).
CE-402	Y	30	Provide complete requirements of Inspections and record keeping by the Primary Permittee. *
CE-402	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
CE-403	Y	32	Provide complete details for Retention of Records as per **Part IV.F.** of the permit. *
CE-402	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
CE-402	N	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
CE-402	Y	35	Delineate all sampling locations **on all phases of the Plan**, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
CE-401	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase plan. *
CE-402	Y	37	Graphic scale and North arrow.
CE-402	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

N/A		39	Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A		40	Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
CE-101 & CE-102	Y	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
CE-402	Y	42	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
CE-402	Y	43	Delineation and acreage of contributing drainage basins on the project site.
CE-402	Y	44	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
CE-401	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
N/A	N	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
CE-101, CE102, & CE-401	Y	47	Soil series for the project site and their delineation.
CE-101 & CE-102	Y	48	The limits of disturbance for each phase of construction.
CE-403	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
ALL	Y	50	Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.
ALL	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
CE-501	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*** If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.**

Effective January 1, 2025

[2] LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)

GEORGIA REGISTERED No. 16700 PROFESSIONAL ENGINEER PAUL D. PURCELL 01-Apr-2025

NO.	DATE	DR	CHK	APVD	
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	P. PURCELL
2	06/2024				
1	03/2024				
0	01/25/24				
NO.	DATE		REVISION	BY	APVD
DSGN	P. PURCELL				

ISSUED FOR BID
90% DESIGN DRAWINGS
60% DESIGN DRAWINGS
30% DESIGN DRAWINGS

Jacobs
10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

CIVIL

EROSION CONTROL NOTES

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-404
SHEET	14 of 18

ISSUED FOR BID

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED. REFER TO Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING), AND Ds4 - DISTURBED AREA STABILIZATION (WITH SODDING).

MULCHING WITHOUT SEEDING:
THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION:
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES, AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

APPLYING MULCH:
MULCHING RATE: MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH:
1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS, BINDERS, AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION Tac - TACKIFIERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Ds1

[52] DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

NTS

04301

SPECIES	BROADCAST RATES 2/ - PLS 3/ PER ACRE	BROADCAST RATES 2/ - PLS 3/ PER 1000 SQ. FT.	RESOURCE AREA	PLANTING RATES BY RESOURCE AREA PLANTING DATES (OPTIMUM / PERMISSIBLE BUT MARGINAL) J F M A M J J A S O N D	REMARKS
MILLET, PEARL (PENNESETUM GLAUCUM)			M-L		88,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
			P		
ALONE	50 LBS	1.1 LB	C		
RYEGRESS, ANNUAL (LOLIUM TEMULENTUM)			M-L		227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES
			P		
ALONE	40 LBS	0.9 LB	C		
SUDANGRASS (SORGHUM SUDANESE)			M-L		55,000 SEED PER POUND. GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
			P		
ALONE	60 LBS	1.4 LB	C		
MILLET, BROWNTOP (PANICUM FASCICULATUM)			M-L		137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
			P		
ALONE	40 LBS	0.9 LB	C		
IN MIXTURES	10 LBS	0.2 LB			

SPECIFICATIONS

GRADING AND SHAPING
- EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS, AND OTHERS.

SEEDBED PREPARATION
- WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED.
- WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.
- WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED, OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER
- AGRICULTURAL LIME IS NOT REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE.
- APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR pH
- APPLY FERTILIZER BEFORE LAND PREPARATION AND DISK, RIP, OR CHISEL TO INCORPORATE.
- ON SLOPED TO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT, APPLY FERTILIZER HYDRAULICALLY, PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE

SEEDING
- SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER-SEEDERS SHOULD NORMALLY PLACE SEED ONE-HALF TO ONE INCH DEEP. IF SEEDED BY HAND, SOIL SHOULD BE 'RAKED' LIGHTLY TO COVER SEED WITH SOIL.

MULCHING
- TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH, PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. SEE DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

IRRIGATION
- IF WATER IS APPLIED, IT MUST BE AT A RATE NOT CAUSING RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

* REVISED FEB 2014 PER 6TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

Ds2

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

NTS

04303

[52] SPECIES	BROADCAST RATES 2/ - PLS 3/ PER ACRE	BROADCAST RATES 2/ - PLS 3/ PER 1000 SQ. FT.	RESOURCE AREA	PLANTING RATES BY RESOURCE AREA PLANTING DATES (OPTIMUM / PERMISSIBLE BUT MARGINAL) J F M A M J J A S O N D	REMARKS
BERMUDA, COMMON (CYNODON DACTYLON) HULLED SEED			P		1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
ALONE	10 LBS	0.2 LB	C		
WITH OTHER PERENNIALS	6 LBS	0.1 LB			
BERMUDA, COMMON (CYNODON DACTYLON) UNHULLED SEED			P		PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
			C		
WITH TEMPORARY COVER	10 LBS	0.2 LB			
WITH OTHER PERENNIALS	6 LBS	0.1 LB			
CENTIPEDE (EREMOCHLOA OPHIUROIDES)	BLOCK SOD ONLY		P		DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENTTO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION AS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
			C		
FESCUE, TALL (FESTUCA ARUNDINACEA)			M-L		227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
			P		
ALONE	50 LBS	1.1 LB			
WITH OTHER PERENNIALS	30 LBS	0.7 LB			
LESPEDEZA, SERICEA (LESPEDEZA CUNEATA)					350,000 SEED PER POUND. WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROAD BANKS. INOCULATE SEED WITH EL INOCULANT.
SCARIFIED	60 LBS	1.4 LB	M-L		
			P		
			C		
UNSCARIFIED	75 LBS	1.7 LB	M-L		MIX WITH TALL FESCUE OR WINTER ANNUALS.
			P		
			C		
SEED-BEARING HAY	3 TONS	138 LB	M-L		CUT WHEN SEED IS MATURE. BUT BEFORE IT SHATTERS. TALL FESCUE OR WINTER ANNUALS.
			P		
			C		
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)			M-L		1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.
			P		
ALONE	4 LBS	0.1 LB	C		
WITH OTHER PERENNIALS	2 LBS	0.05 LB			

FERTILIZER REQUIREMENTS:

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST	6-12-12	1500 LBS./AC.	50-100 LBS./AC. 1/ 2/
	SECOND	6-12-12	1000 LBS./AC.	-
	MAINTENANCE	10-10-10	400 LBS./AC.	30
2. COOL SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500 LBS./AC.	0-50 LBS./AC. 1/
	SECOND	0-10-10	1000 LBS./AC.	-
	MAINTENANCE	0-10-10	400 LBS./AC.	-
3. GROUND COVERS	FIRST	10-10-10	1300 LBS./AC. 3/	-
	SECOND	10-10-10	1300 LBS./AC. 3/	-
	MAINTENANCE	10-10-10	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	700 LBS./AC.	-
		0-10-10	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	6-12-12	1500 LBS./AC.	50-100 LBS./AC. 2/ 6/
	SECOND	6-12-12	800 LBS./AC.	50-100 LBS./AC. 2/
	MAINTENANCE	10-10-10	400 LBS./AC.	30 LBS./AC.
8. WARM SEASON GRASSES AND LEGUMES	FIRST	6-12-12	1500 LBS./AC.	50 LBS./AC. 6/
	SECOND	0-10-10	1000 LBS./AC.	
	MAINTENANCE	0-10-10	400 LBS./AC.	

1/ APPLY IN SPRING FOLLOWING SEEDING.
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
3/ APPLY IN 3 SPLIT APPLICATIONS.
4/ APPLY WHEN PLANTS ARE PRUNED.
5/ APPLY TO GRASS SPECIES ONLY.
6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

SPECIFICATION:
A. GRADING & SHAPING
- GRADING AND SHAPING IS NOT NORMALLY REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.

B. SEEDBED PREPARATION
- SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED.
- WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:
  BROADCAST PLANTING - TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.

B. LIME AND FERTILIZER – RATES AND ANALYSIS
1. WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED, AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
2. LIME SPREAD BY CONVENTIONAL EQUIPMENT WILL BE "GROUND LIMESTONE". GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.
3. AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT WILL BE "FINELY GROUND LIMESTONE." FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.

D. LIME AND FERTILIZER – APPLICATION
1. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED:
   THE INITIAL FERTILIZER WILL BE MIXED WITH SEED, INOCULANT (IF NEEDED) AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE SLURRY WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER. FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING.
2. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER WILL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
   a. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION; OR,
   b. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS; OR,
   c. BROADCAST AFTER STEEP SURFACES AND SCARIFIED, PITTED OR TRENCHED.
   d. A FERTILIZER PELLET WILL BE PLACED AT ROOT DEPTH.

* REVISED 7/01 PER 5TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

Ds3

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

NTS

04304

GEORGIA REGISTERED No. 18856 PROFESSIONAL ENGINEER — 01-APR-2025

NO.	DATE	REVISION	CHK
3	11/2024	ISSUED FOR BID	SA
2	06/2024	90% DESIGN DRAWINGS	SA
1	03/2024	60% DESIGN DRAWINGS	SA
0	01/25/24	30% DESIGN DRAWINGS	PA
DSGN	P. PURCELL	DR P. AKINOSHO	BY C. HENSLEY APVD P. PURCELL

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EROSION CONTROL DETAILS

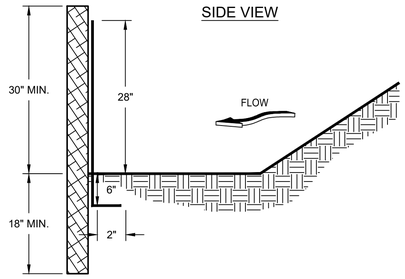
AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

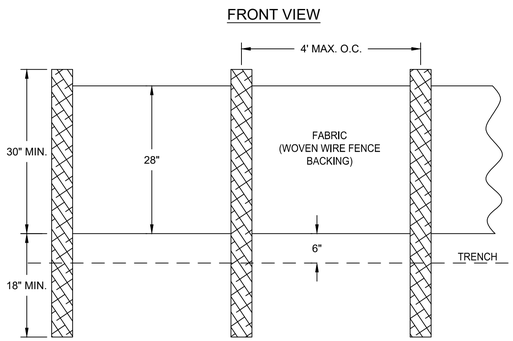
DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-501
SHEET	15 of 18

ISSUED FOR BID

[2] LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)





MAINTENANCE:

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

NOTES:

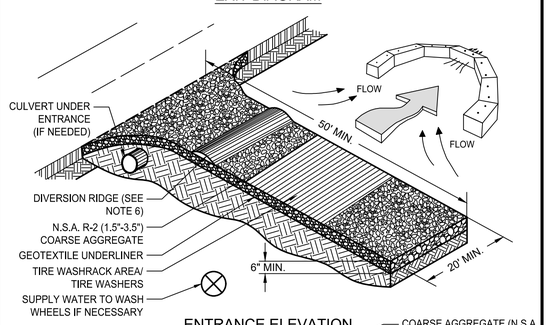
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S

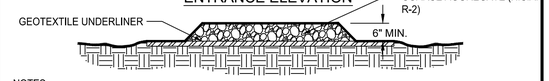
TYPE 'S'
SILT FENCE
NTS

04329

EXIT DIAGRAM



ENTRANCE ELEVATION



NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co

CONSTRUCTION
ENTRANCE
NTS

04311

INSTALLATION:

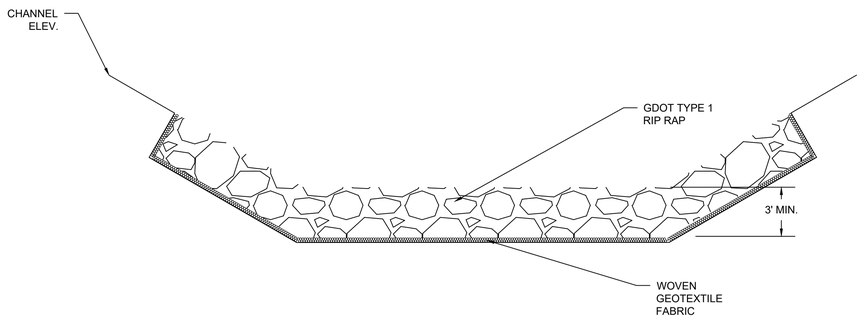
A. TEMPORARY METHODS
1. MULCHES - SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIALS. REFER TO SPECIFICATION Tac - TACHIFIERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURES RECOMMENDATIONS.
2. VEGETATIVE COVER - SEE SPECIFICATION Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
3. SPRAY-ON ADHESIVES - USE ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREA. REFER TO SPECIFICATION Tac - TACKIFIERS.
4. TILLAGE - USE AS AN EMERGENCY METHOD BEFORE WIND EROSION BEGINS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE APPROPRIATE EQUIPMENT TO PRODUCE DESIRED EFFECT.
5. IRRIGATION - USE AS AN EMERGENXY TREATMENT. SPRINKLE SITE WITH WATER UNTIL SURFACE IS WET. REPEAT AS NEEDED.
6. BARRIERS - SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIALS MAY BE USED TO CONTROL SIR CURRENTS AND SOIL BREWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF APPROXIMATELY 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
7. CALCIUM CHLORIDE - APPLY AT RATE WHICH KEEPS SURFACE MOIST. MAY NEED RETREATMENT.

B. PERMANENT METHODS
1. PERMANENT VEGETATION - SEE SPECIFICATION Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
2. TOPSOILING - COVER SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE SPECIFICATION - Tp TOPSOILING.
3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION Cr - CONSTRUCTION ROAD STABILIZATION.

Du

DUST CONTROL ON
DISTURBED AREAS
NTS

04306



RIP RAP DETAIL
NTS

NO.	DATE	DSGN	DR	CHK	REVISION	APVD	BY
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	ISSUED FOR BID	P. PURCELL	SA PP
2	06/2024				90% DESIGN DRAWINGS		SA PP
1	03/2024				60% DESIGN DRAWINGS		SA PP
0	01/25/24				30% DESIGN DRAWINGS		PA PP

GEORGIA REGISTERED No. 16709 PROFESSIONAL ENGINEER
PAUL D. PURCELL
01-24-2025

ISSUED FOR BID

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EROSION CONTROL DETAILS

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-502
SHEET	16 of 18

[2] LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)

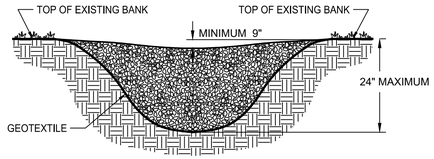
J:\EEXJ6937\500.DESIGN\410.CAD\712SHTS

FILENAME: CE-501 EROSION CONTROL NOTES

PLOT DATE: 2024-12-23

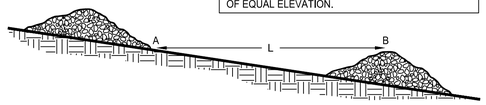
PLOT TIME: 1:23 PM

CROSS SECTION

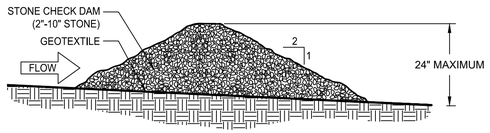


SPACING BETWEEN CHECK DAMS

A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



PROFILE VIEW



NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

1. CFS IN THE CHANNEL/DITCH IS ABOVE 2.0 CFS: YES ___X___ NO _____
2. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: ___MATTING___

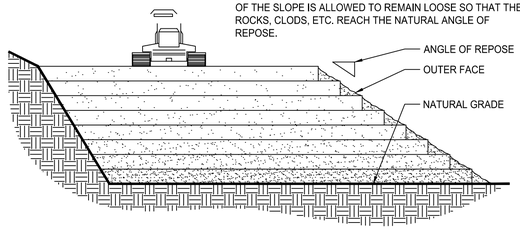
Cd-S

STONE CHECK DAM
NTS

04308

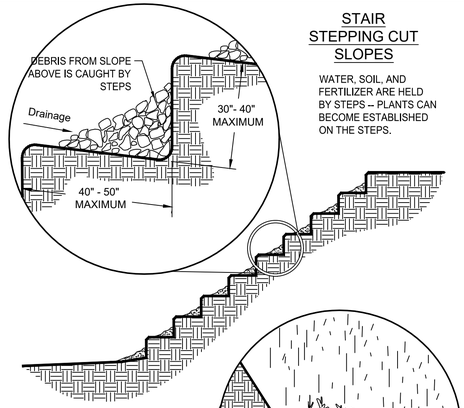
FILL SLOPE TREATMENT

EACH LIFT OF THE FILL IS COMPACTED, BUT THE OUTER FACE OF THE SLOPE IS ALLOWED TO REMAIN LOOSE SO THAT THE ROCKS, CLODS, ETC. REACH THE NATURAL ANGLE OF REPOSE.

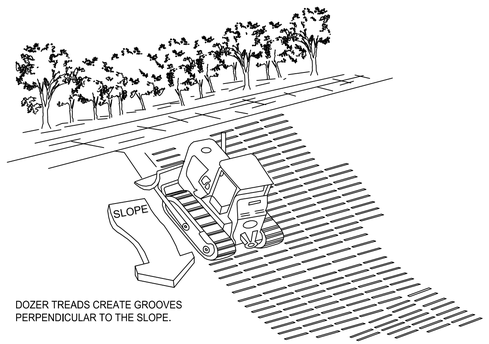


STAIR STEPPING CUT SLOPES

WATER, SOIL, AND FERTILIZER ARE HELD BY STEPS -- PLANTS CAN BECOME ESTABLISHED ON THE STEPS.

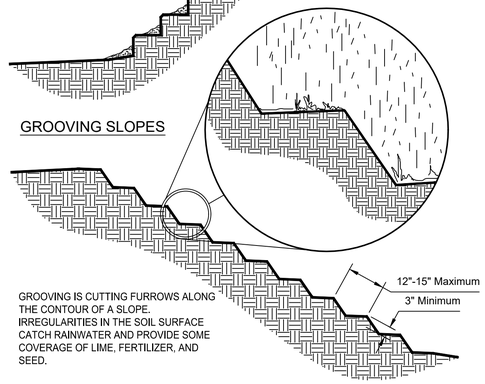


TRACKING



DOZER TREADS CREATE GROOVES PERPENDICULAR TO THE SLOPE.

GROOVING SLOPES



GROOVING IS CUTTING FURROWS ALONG THE CONTOUR OF A SLOPE. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND PROVIDE SOME COVERAGE OF LIME, FERTILIZER, AND SEED.

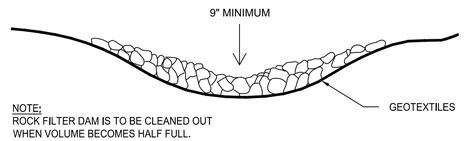
Su

SURFACE ROUGHENING
NTS

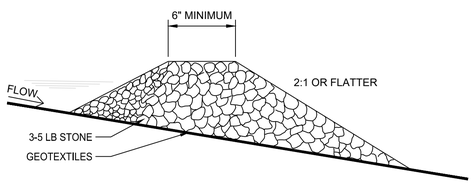
04350

NOTE: THE DETAIL SHOWN IS SCHEMATIC. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A DESIGN SPECIFIC TO THE SITE.

TYPICAL BYPASS PUMPING DETAIL
NTS



NOTE:
ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.



NOTE:
ROCK SIZE DETERMINED ACCORDING TO SPECIFICATIONS SET FORTH IN APPENDIX C.

Rd

ROCK FILTER DAM
NTS

04323

GEORGIA REGISTERED No. 18856 PROFESSIONAL ENGINEER
Paul D. Purcell 01-09-2025

NO.	DATE	DSGN	DR	CHK	REVISION
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	ISSUED FOR BID
2	06/2024	SA	SA	APVD	90% DESIGN DRAWINGS
1	03/2024	PP	PP	PP	60% DESIGN DRAWINGS
0	01/25/24	SA	PA	BY	30% DESIGN DRAWINGS
NO.	DATE	PP	PP	APVD	REVISION

P. PURCELL

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EROSION CONTROL DETAILS

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.

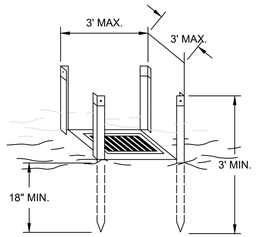
ISSUED FOR BID

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-503
SHEET	17 of 18

2 LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)

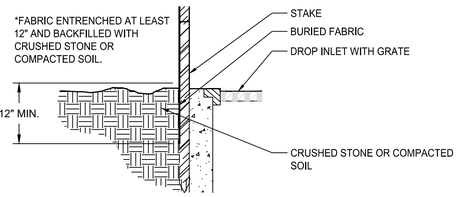


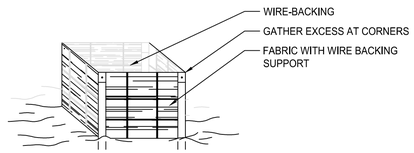
MAINTENANCE:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

INSTALLATION NOTES:

1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. STAKES SHALL BE STEEL POSTS @ 3' MIN. & 1.3 LBS/FT.
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.





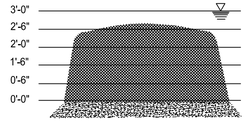
Sd2-F

INLET SEDIMENT TRAP
FABRIC & SUPPORTING FRAME

NTS

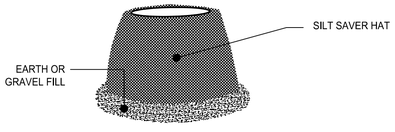
04332

SILT SAVER (SS-100A) FRAME & FILTER DISCHARGE ANALYSIS



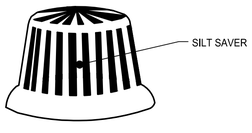
ORIFICE ONLY FLOW CALCULATIONS

OPENING	FILTER	FILTER	FRAME	FILTERED	
HEAD (ft)	AREA (sf)	AREA (sf)	FLOW (cfs)	FLOW (cfs)	FLOW (cfs)
0.5	2.1	6.0	2.0	7.0	2.0
1.0	3.9	12.0	3.0	19.0	3.0
1.5	7.0	18.0	5.0	41.0	5.0
2.0	8.0	24.0	7.0	54.0	7.0
2.5	9.2	30.0	9.0	70.0	9.0
3.0	9.2			77.0	77.0



NOTES:

1. DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR AND ORIFICE CONDITIONS.
2. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE LESSER OF THE ORIFICE AND WEIR FLOWS WILL BE USED FOR EACH STAGE CALCULATION.
3. FILTER MATERIAL ALLOWS 129 gpm/sf OR 0.29 cfs/SF
   ORIFICE EQUATION (O)=Q=0.6A(2gh)^0.5
   P= FEET PERIMETER — Q= CAPACITY IN CFS
   h= HEAD IN FEET — A= FREE OPEN AREA OF FRAME
   g= 32.2 FEET PER SECOND PER SECOND



MAINTENANCE:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

Sd2-F

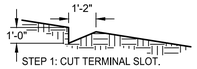
SILT SAVER
INLET SEDIMENT TRAP

NTS

04333

BLANKET AND MATTING CROSS-SECTIONS

UPSTREAM TERMINAL



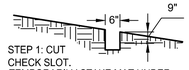
STEP 1: CUT TERMINAL SLOT.

STEP 2: SNUG 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 4:
A. REVERSE MAT ROLL DIRECTION TO OVERLAY CHECK LOT.
B. STAKE MAT TO ANCHOR TERMINAL.

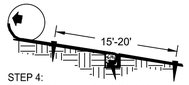
TRANSVERSE CHECK SLOT



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

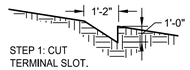
STEP 2: WORK UPSTREAM ACROSS CHECK SLOT AND LAP BACK 15".

STEP 3: TUCK MAT LAP INTO SLOT AND STAKE.



STEP 4:
A. BACKFILL AND PROGRESS UPSTREAM
B. PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING.

DOWNSTREAM TERMINAL



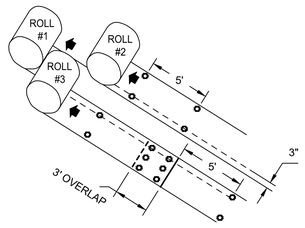
STEP 1: CUT TERMINAL SLOT.

STEP 2: STAKE MAT INTO SLOT.

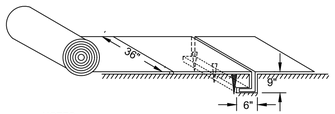
STEP 3: BACKFILL TERMINAL SLOT.

STEP 4:
A. ROLL MAT UP-STREAM OVER REFILLED TERMINAL.
B. STAKE MAT DOWN TO ANCHOR TERMINAL.
C. PROGRESS UPSTREAM WITH ROLL.

SEQUENTIAL ROLL RUN OUT IN CHANNELS



PICTORAL VIEW OF TRANSVERSE SLOT



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

Ss

SLOPE STABILIZATION

NTS

04307

GEORGIA REGISTERED No. 16700 PROFESSIONAL ENGINEER
01-APR-2025

NO.	DATE	DSGN	DR	CHK	APVD
3	11/2024	P. PURCELL	P. AKINOSHO	C. HENSLEY	P. PURCELL
2	06/2024	ISSUED FOR BID		SA	PP
1	03/2024	90% DESIGN DRAWINGS		SA	PP
0	01/25/24	60% DESIGN DRAWINGS		SA	PP
		30% DESIGN DRAWINGS		PA	PP
		REVISION		BY	APVD

10 10TH STREET, SUITE 1400
ATLANTA, GA 30309
GA LIC # PEF000350 (EXP 6/30/2024)

TARA BOULEVARD STORM
DRAIN REHABILITATION
8405 TARA BLVD
JONESBORO, GA 30236

Jacobs

CIVIL

EROSION CONTROL DETAILS

ISSUED FOR BID

AS SHOWN
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	JANUARY 2025
PROJ	EEXJ6937
DWG	CE-504
SHEET	18 of 18

[2] LEVEL II CERT. # 18856

GA LIC # PEF000350 (EXP 6/30/2026)

J:\EEXJ6937\500.DESIGN\410.CAD\712SHTS

FILENAME: CE-501 EROSION CONTROL NOTES PLOT DATE: 2024-12-23 PLOT TIME: 1:23 PM