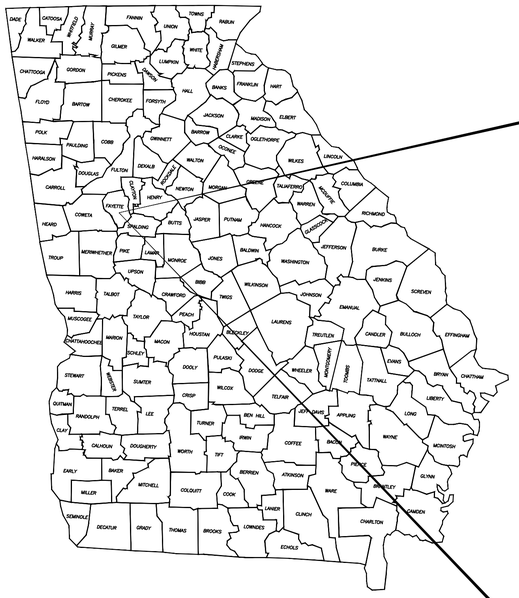
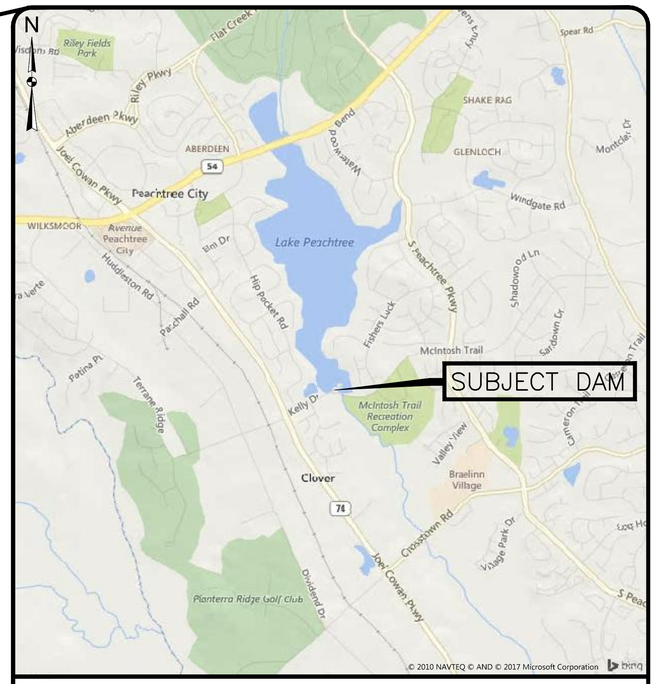
CONSTRUCTION PLANS FOR

LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT

FAYETTE COUNTY, GEORGIA

JULY 10TH, 2017





SCALE: 1" = 2000'

SITE VICINITY MAP

THE CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS.

PLANS PREPARED FOR:
DAVE BORKOWSKI; CITY ENGINEER

CITY COUNCIL MEMBERS:
VANESSA FLEISCH
PHIL PREBOR
MIKE KING
KIM LEARNARD
TERRY ERNST

CITY OF PEACHTREE CITY
153 WILLOWBEND ROAD
PEACHTREE CITY, GEORGIA 300269

PEACHTREE CITY CONTRACT NUMBER:
17-123BPW

PLANS PREPARED BY:
SCHNABEL ENGINEERING, LLC
6445 SHILOH ROAD, SUITE A
ALPHARETTA, GEORGIA 30115

ENGINEER CONTACT:
RANDALL P. BASS, P.E.
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REV	DESCRIPTION	DATE

DESIGNED BY: JTD, JG
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19685

GEORGIA REGISTERED PROFESSIONAL ENGINEER RANDALL P. BASS No. 19685

Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
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schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

COVER SHEET

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
1 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_COVER SHEET AND NOTES.DWG

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65	JOINT DETAILS
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GENERAL NOTES:

1. SCHNABEL ENGINEERING, LLC IS SOLELY RESPONSIBLE FOR THE PREPARATION OF THE PLANS FOR THE SUBJECT DAM AND SPILLWAY. ADHERENCE TO THESE PLANS, AS WELL AS ADHERENCE TO GOVERNMENT, CITY AND COUNTY REGULATIONS, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. THE DAILY ON-SITE PRESENCE OF SCHNABEL ENGINEERING, LLC REPRESENTATIVES WILL BE REQUIRED TO CONFIRM THAT SITE CONDITIONS ARE AS ANTICIPATED AND TO CONFIRM THAT CONTRACTORS MEANS AND METHODS DO NOT COMPROMISE DESIGN INTENT.
3. CONTRACTOR TO VERIFY ALL CONDITIONS, ELEVATIONS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR JUSTIFICATION AND/OR CORRECTION BEFORE PROCEEDING WITH THE WORK. CONTRACTOR TO ASSUME RESPONSIBILITY FOR DISCREPANCIES WHICH ARE NOT REPORTED. ALL DIMENSIONS SHOULD BE READ OR CALCULATED.
4. CONTRACTOR TO HAVE ALL UTILITIES FIELD LOCATED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
5. THE CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS. PROPER SAFETY PROCEDURES ARE OF SPECIAL CONCERN ON THE PROJECT CONSIDERING THAT WORKERS MAY BE WORKING IN TRENCH EXCAVATIONS.
6. ALL MATERIALS AND WORK PERFORMED SHALL COMPLY WITH THE TECHNICAL SPECIFICATIONS OF THE PROJECT.

WATER CONTROL NOTES:

1. CONTRACTOR SHALL BUILD, MAINTAIN AND OPERATE ANY TEMPORARY DIKES, COFFERDAMS, CHANNELS, FLUMES, SUMPS AND OTHER TEMPORARY DIVERSION AND PROTECTIVE WORKS NEEDED TO DIVERT SURFACE WATER FROM THE CONSTRUCTION WORK WHILE CONSTRUCTION IS IN PROGRESS. DIVERSION OR RETENTION OF SURFACE WATERS WILL BE CONTINUED UNTIL SUCH TIME AS DETERMINED BY THE ENGINEER.
2. FOUNDATIONS FOR CONCRETE, AND OTHER PARTS OF THE CONSTRUCTION SITE, SHALL BE DEWATERED AND KEPT FREE OF STANDING WATER OR EXCESSIVELY MUDDY OR SOFT CONDITIONS AS NEEDED FOR PROPER EXECUTION OF THE CONSTRUCTION WORK.
3. DEWATERING METHODS FOR FOUNDATION CONSTRUCTION OR SUBGRADE PREPARATION THAT CAUSE A LOSS OF FINES FROM FOUNDATION OR SUBGRADE AREAS WILL NOT BE PERMITTED.
4. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES INCURRED AS A RESULT OF THE LACK OF ADEQUATE SURFACE OR SUBSURFACE WATER CONTROL.
5. CONTRACTOR IS TO PROVIDE THE ENGINEER WITH A WATER CONTROL PLAN FOR REVIEW AND ACCEPTANCE PRIOR TO THE START OF CONSTRUCTION.

SOIL COMPACTION NOTES:

1. ALL AREAS TO RECEIVE STRUCTURAL FILL TO BE CLEARED AND STRIPPED FREE OF TOPSOIL, ROOTS, STUMPS, ORGANICS AND ALL OTHER DELETERIOUS MATERIAL.
2. SUBGRADE AREAS WHICH ARE EXCESSIVELY WET, SOFT, OR DEEMED OTHERWISE UNSUITABLE BY THE ENGINEER, SHALL BE UNDERCUT AND REPLACED WITH FILL MATERIALS AS RECOMMENDED BY THE ENGINEER AND COMPACTED IN ACCORDANCE WITH NOTE (4) OF THIS SECTION. SUBGRADE SHALL BE CAPABLE OF SUPPORTING 3,000 PSF WITH LESS THAN 1/2 INCHES OF TOTAL SETTLEMENT.
3. AREAS TO RECEIVE STRUCTURAL FILL SHALL BE BENCHED INTO EXISTING SLOPES, DENSIFIED, AND SHALL BE AT SUCH MOISTURE CONTENT THAT THE FILL SOILS CAN BE COMPACTED AGAINST THE SLOPE TO EFFECT A GOOD BOND BETWEEN THE FILL SOILS AND THE EXISTING SOILS.
4. STRUCTURAL FILL TO BE PLACED IN MAXIMUM 9-INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY AND BETWEEN OPTIMUM AND 4% ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D-698).
5. ALL FILL SOILS TO BE PLACED UNDER THE OBSERVATION OF THE ENGINEER OR HIS REPRESENTATIVE.
6. CONTRACTOR SHALL OBTAIN BORROW FROM ONSITE EXCAVATIONS, IF THE MATERIAL MEETS PROJECT REQUIREMENTS. SHOULD THE ONSITE MATERIAL NOT MEET PROJECT REQUIREMENTS OR BE OF INSUFFICIENT QUANTITY, CONTRACTOR SHALL IDENTIFY AN OFFSITE BORROW SOURCE THAT MEETS PROJECT REQUIREMENTS.
7. UTILIZE SHEEPSFOOT ROLLER TO COMPACT SOILS IN MASS GRADING/FILLING ACTIVITIES. MECHANICAL HAND TAMPERS WILL BE USED TO COMPACT SOIL AROUND, ABOVE OR ADJACENT TO STRUCTURES AND/OR CONDUITS WHERE THE USE OF LARGE SHEEPSFOOT ROLLERS MAY DAMAGE STRUCTURES. MECHANICAL HAND TAMPERS WILL BE USED WITHIN 3 FEET OF ALL STRUCTURES.

NOTES ON DRAIN CONSTRUCTION:

1. DRAIN CONSTRUCTION WILL CONSIST OF INSTALLING THE FINE AND COARSE DRAIN AGGREGATE AND THE COLLECTOR/OUTLET PIPES FOR THE PROPOSED SERVICE SPILLWAY UNDERDRAIN.
2. GEOTEXTILE MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. ALL GEOTEXTILE MATERIALS MUST BE DELIVERED TO THE JOB SITE IN FACTORY-INSTALLED PROTECTIVE WRAPPINGS WITH ATTACHED DOCUMENTATION CERTIFYING THE QUALITY AND CONDITION OF GEOTEXTILE. USE OF AN UNAPPROVED GEOTEXTILE WILL RESULT IN REMOVAL OF MATERIAL AT CONTRACTOR'S EXPENSE.
3. COARSE DRAIN AGGREGATE TO BE TOUGH, HARD, DURABLE PARTICLES AND SHALL BE REASONABLY FREE OF FLAT OR ELONGATED PIECES AND SHALL CONTAIN NO ORGANIC MATTER OR SOFT FRIABLE PARTICLES. CONTRACTOR TO FURNISH ENGINEER WITH THE GRADATION OF COARSE DRAIN FILL FROM SUPPLIER PRIOR TO USE. STONE SHALL MEET THE REQUIREMENTS FOR GEORIGA DOT NO. 89 COARSE AGGREGATE.
4. UTILIZE ASTM C-33 SAND FOR FINE DRAINAGE AGGREGATE. CONTRACTOR TO FURNISH ENGINEER WITH THE GRADATION OF ASTM C-33 SAND FROM SUPPLIER PRIOR TO USE. SAND FOR FINE DRAINAGE AGGREGATE SHALL BE NATURAL / RIVER RUN MATERIAL. SAND CREATED FROM ROCK CRUSHING OPERATIONS WILL NOT BE PERMITTED. SAND DERIVED FROM LIMESTONE OR OTHER MATERIALS HAVING EITHER CEMENTITOUS OR SOLUTIONING PROPERTIES WILL NOT BE ACCEPTED. ENGINEER SHALL REVIEW AND APPROVE SOURCE OF SAND.
5. COARSE DRAIN FILL SHALL BE SURROUNDED BY A MINIMUM OF 9-INCHES OF FINE DRAIN FILL.
6. PERFORATED PIPE SHALL BE SURROUNDED BY A MINIMUM OF 6-INCHES OF COARSE DRAIN FILL.
7. SOME MODIFICATIONS OF DRAIN LAYOUT AND INVERTS MAY BE REQUIRED IN THE FIELD TO ACCOMMODATE EXISTING SITE TOPOGRAPHY.
8. MAINTAIN A MIN. OF 24-INCHES OF FINE DRAIN FILL BETWEEN STRUCTURES AND COARSE DRAIN FILL, UNLESS DETAILED OTHERWISE ON THE PLANS.
9. PIPING SHALL BE PERFORATED AND NON-PERFORATED RIGID POLYVINYL CHLORIDE (PVC) PIPE. ALL PVC PIPE WILL BE AWWA C900, PRESSURE CLASS 150. ALL BENDS AND FITTINGS SHALL BE COMPATIBLE WITH THE PIPE UTILIZED AND SHOULD BE INSTALLED ACCORDING TO APPLICABLE MANUFACTURER'S RECOMMENDATIONS.
10. INSTALLATION OF SUBSURFACE DRAINS WILL BE ACCOMPLISHED IN SUCH A MANNER THAT WORKER SAFETY IS NOT COMPROMISED IN ANY WAY. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PREVENT COLLAPSE OF TRENCH OR SLOPE INSTABILITY DURING INSTALLATION OF DRAINAGE SYSTEM.

GENERAL NOTES FOR CONCRETE STRUCTURES:

1. EXCEPT AS OTHERWISE NOTED OR SPECIFIED, THESE GENERAL NOTES SHALL APPLY TO THE CONCRETE STRUCTURES.
2. ALL CONCRETE SHALL CONFORM TO THE MOST RECENT EDITION OF "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES, ACI-350."
3. STRUCTURAL DESIGN IS BASED UPON CONCRETE WITH A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS AND REINFORCEMENT WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.
4. CONCRETE TESTING WILL BE IN COMPLIANCE WITH THE FOLLOWING ASTM STANDARDS: C31, C39, C138, C143, C172, C173, AND C231.
5. FOR REINFORCING STEEL
   a. FOR DEVELOPMENT AND LAP SPLICE LENGTH, REFER TO ACI 318 AND ACI 350.
   b. REINFORCEMENT SHALL HAVE A MINIMUM LENGTH OF 20'-0" BETWEEN SPLICES UNLESS OTHERWISE SHOWN.
   c. SPLICES SHALL NOT CROSS CONSTRUCTION OR CONTRACTION JOINTS.
   d. SPLICE DIMENSIONS SHOWN ARE MINIMUM VALUES. CONTRACTOR MAY ELECT TO UTILIZE LONGER SPLICE LENGTHS TO ACCOUNT FOR POTENTIAL CONSTRUCTION VARIANCES AT NO ADDITIONAL COST TO THE OWNER.
6. FOR DOWEL BARS:
   a. DOWEL BARS SHALL MEET THE REQUIREMENTS OF ASTM A36 AND ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
   b. PLAIN DOWEL BARS SHALL BE 2 FEET LONG AND 3/4" DIAMETER SMOOTH STEEL.
   c. ONE-HALF OF EACH DOWEL BAR SHALL BE COATED WITH HEAVY GREASE TO PREVENT BOND WITH CONCRETE.
   d. DOWELS SHALL BE KEPT IN STRAIGHT ALIGNMENT, AS SHOWN IN THE PLANS, DURING AND SUBSEQUENT TO CONCRETE PLACEMENT.
   e. DOWELS SHALL BE SPACED 12 INCHES APART ALONG ALL CONTRACTION JOINTS UNLESS OTHERWISE NOTED.
7. CHAMFER ALL EXPOSED CORNERS 3/4" UNLESS OTHERWISE SHOWN OR DESIGNATED.
8. CUT OR BEND STEEL REINFORCING BARS AS NECESSARY TO INSTALL DRAIN PIPE OUTLETS.
9. JOINTS
   a. ADDITIONAL CONSTRUCTION JOINTS OR RELOCATION OF CONSTRUCTION JOINTS MAY BE USED IF APPROVED BY ENGINEER.
   b. CONSTRUCTION JOINTS SHALL BE AS SHOWN ON THE PLANS. UNDER NO CIRCUMSTANCES MAY A SECTION OF WALL BE POURED HIGHER THAN TEN FEET DURING ANY ONE PLACEMENT (UNLESS OTHERWISE SHOWN).
10. EMBEDDED MATERIALS
    a. BEFORE PLACING CONCRETE, CARE SHALL BE TAKEN THAT ALL EMBEDDED ITEMS ARE IN POSITION AND SECURELY FASTENED IN PLACE.
    b. ALL WATERSTOPS SHALL BE SUPPORTED AND PROTECTED FROM DAMAGE AND EXPOSURE.
11. CLEAR COVER TO REINFORCEMENT DISTANCE SHALL BE 2" FROM FORMED FACES/EDGES AND 3" FROM UNFORMED FACES/EDGES CAST AGAINST EARTH OR ROCK (UNLESS OTHERWISE SHOWN).
12. CONCRETE WATERPROOFING SHALL BE APPLIED TO THE UPSTREAM SURFACE/SIDE OF THE PIANO KEY WALLS AND RAMPS. CONCRETE WATERPROOFING SHALL ALSO BE APPLIED TO THE SIDEWALLS AND SLABS ADJACENT TO THE PIANO KEY WALLS A MINIMUM OF 3 FEET IN THE UPSTREAM DIRECTION.

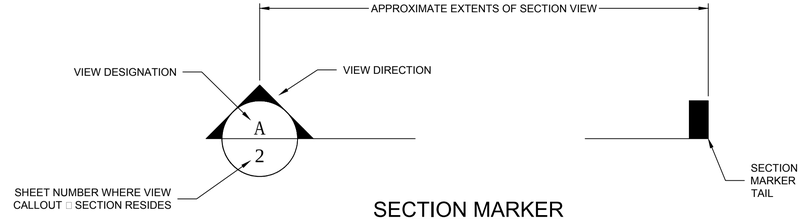
FLOW

FLOW ARROW

INDICATES DIRECTION OF FLOW

GEORGIA 811
CALL BEFORE YOU DIG
CALL 1-800-282-7411
UTILITIES PROTECTION CENTER
IT'S THE LAW

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY PROVIDERS TO MAINTAIN UTILITY SERVICE AND A SAFE WORK SITE.



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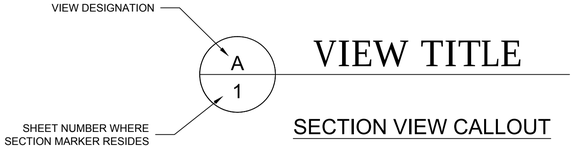

SECTION VIEW CALLOUT

ABBREVIATIONS

B.F.	BOTH FACES	O.D.	OUTSIDE DIAMETER
B.I.G.	BREAK-IN-GRADE	O.F.	OUTSIDE FACE (BACKFILL SIDE)
CJ	CONSTRUCTION JOINT	O/S	OFFSET FROM CENTERLINE
C/L, C, ℄	CENTER LINE	P.C.	POINT OF CURVATURE
C.M.P., CMP	CORRUGATED METAL PIPE	P.I., PI	POINT OF INTERSECTION
CTJ	CONTRACTION JOINT	RAD, R	RADIUS
D.F.	DOWNSTREAM FACE	R.C.P., RCP	REINFORCED CONCRETE PIPE
DIA.	DIAMETER	REF.	REFERENCE
D.I.P., DIP	DUCTILE IRON PIPE	STA.	STATION
D/S	DOWNSTREAM	U.F.	UPSTREAM FACE
E.F.	EACH FACE	U/S	UPSTREAM
ELEV., EL.	ELEVATION	VC	VERTICAL CURVE
E/P	EDGE OF PAVEMENT	W.E.	WATER ELEVATION
EXIST.	EXISTING	W/O	WITHOUT
FT	FEET	BP, B.P.	BEGINNING POINT
I.D.	INSIDE DIAMETER	EP, E.P.	END POINT
I.E., IE	INVERT ELEVATION	TP	TEST PIT
I.F.	INSIDE FACE (FLOW SIDE)	TYP.	TYPICAL DETAIL
INV.	INVERT	DI, D.I.	DROP INLET
L.F., LF	LINEAR FOOT	HW, H.W.	HEADWALL
M.S.L.	MEAN SEA LEVEL	PROP	PROPOSED
NTS	NOT TO SCALE	PVC	POLYVINYL CHLORIDE PIPE
N.P.	NORMAL POOL	P-1	PIEZOMETERS (TYP.)

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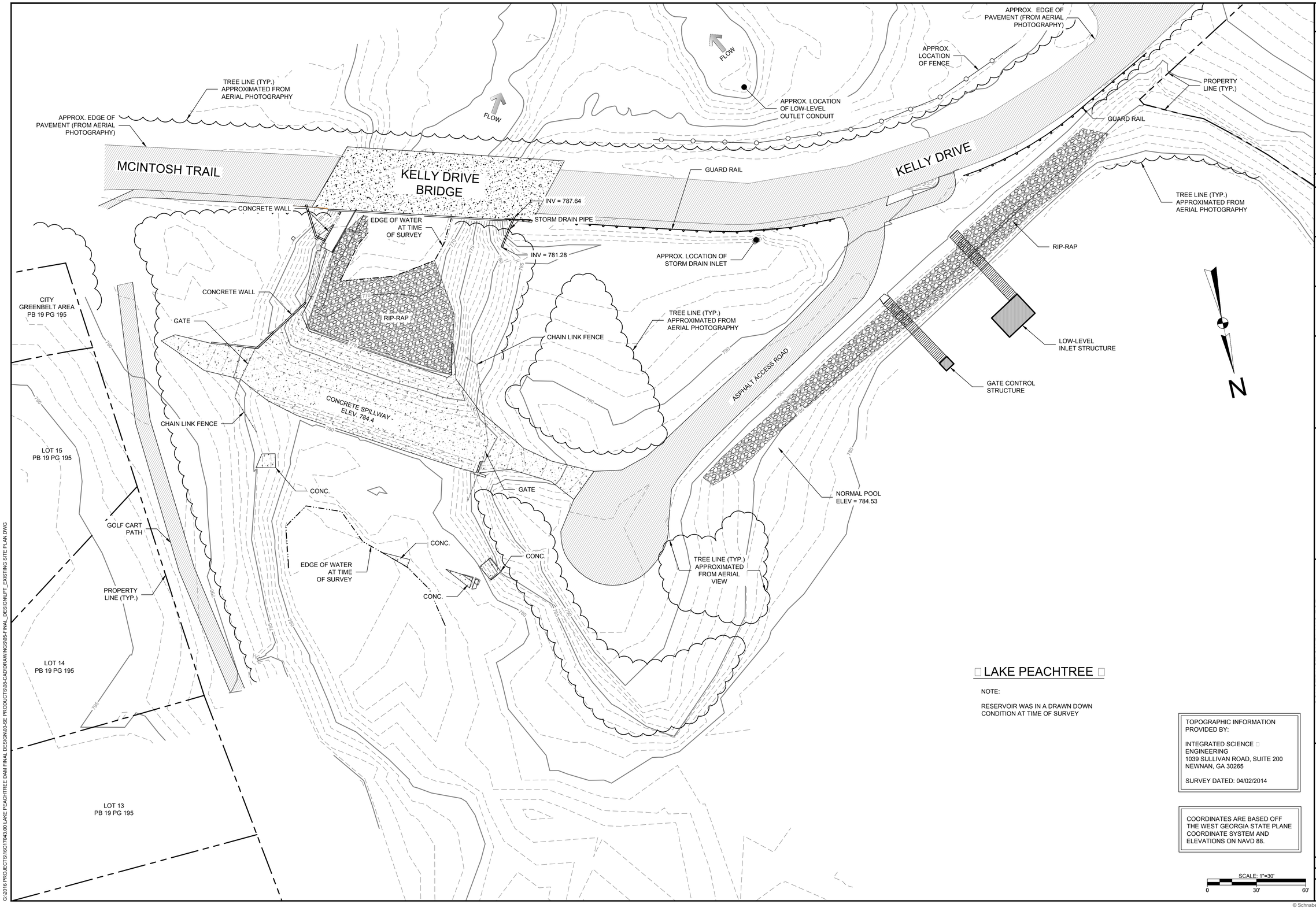

LAKE PEACHTREE

NOTE:

RESERVOIR WAS IN A DRAWN DOWN CONDITION AT TIME OF SURVEY

TOPOGRAPHIC INFORMATION PROVIDED BY:

INTEGRATED SCIENCE ENGINEERING
1039 SULLIVAN ROAD, SUITE 200
NEWNAN, GA 30265

SURVEY DATED: 04/02/2014

COORDINATES ARE BASED OFF THE WEST GEORGIA STATE PLANE COORDINATE SYSTEM AND ELEVATIONS ON NAVD 88.

SCALE: 1"=30'
0 30' 60'

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N

KELLY DRIVE BRIDGE

MCINTOSH TRAIL

KELLY DRIVE

APPROX. EDGE OF PAVEMENT (APPROXIMATED FROM AERIAL PHOTOGRAPHY)

TREE LINE (TYP.) APPROXIMATED FROM AERIAL PHOTOGRAPHY

STORM DRAIN PIPE INV. ELEV. = 781.28

GUARD RAIL

GOLF CART PATH

CONCRETE WALL

EDGE OF WATER AT TIME OF SURVEY

12-INCH DIA. STORM DRAIN PIPE INV. ELEV. = 775.73

STORM DRAIN JUNCTION BOX TOP ELEV. = 781.70

APPROX. LOCATION OF STORM DRAIN INLET

CONCRETE WALL

RIP-RAP

CITY GREENBELT AREA PB 19 PG 195

GATE

ASPHALT ACCESS ROAD

RIP-RAP

CHAIN LINK FENCE

CONCRETE SPILLWAY CREST ELEV. = 784.4

GATE

LOT 15 PB 19 PG 195

CHAIN LINK FENCE

CONC.

GOLF CART PATH

CONC.

EDGE OF WATER AT TIME OF SURVEY

CONC.

TREE LINE (TYP.) APPROXIMATED FROM AERIAL VIEW

PROPERTY LINE (TYP.)

LOT 14 PB 19 PG 195

NOTE:

LIMITS OF EXISTING CONCRETE SPILLWAY AS SHOWN SHALL BE CONSIDERED APPROXIMATE.

LAKE PEACHTREE

SCALE: 1"=20'

0 20' 40'

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KELLY DRIVE BRIDGE

KELLY DRIVE

APPROX. EXIST. EDGE OF PAVEMENT (APPROXIMATED FROM AERIAL PHOTOGRAPHY)

EXIST. TREE LINE (TYP.) APPROXIMATED FROM AERIAL PHOTOGRAPHY

EXIST. STORM DRAIN PIPE INV. ELEV. = 781.28

APPROX. EXIST. EDGE OF PAVEMENT (APPROXIMATED FROM AERIAL PHOTOGRAPHY)

EXIST. GUARD RAIL

GOLF CART PATH

EXIST. CONCRETE WALL

EXIST. EDGE OF WATER AT TIME OF SURVEY

DOWNSTREAM GEOLOGIC ALIGNMENT (SEE PROFILE SHEET 07)

EXIST. 12-INCH DIA. STORM DRAIN PIPE INV. ELEV. = 775.73

EXIST. STORM DRAIN JUNCTION BOX TOP ELEV. = 781.70

APPROX. LOCATION OF EXIST. STORM DRAIN STRUCTURE

B-01

B-02

B-03

B-04

EXIST. CONC. WALL

EXIST. RIP-RAP

CITY GREENBELT AREA PB 19 PG 195

EXIST. GATE

EXIST. ASPHALT ACCESS ROAD

EXIST. RIP-RAP

UPSTREAM GEOLOGIC ALIGNMENT (SEE PROFILE SHEET 07)

B-07

B-08

B-09

EXIST. CHAIN LINK FENCE

B-05

EXIST. CONCRETE SPILLWAY CREST ELEV. = 784.4

EXIST. GATE

LOT 15 PB 19 PG 195

GOLF CART PATH

EXIST. CHAIN LINK FENCE

EXIST. CONC.

B-06

LEFT ABUTMENT GEOLOGIC ALIGNMENT (SEE PROFILE SHEET 07)

RIGHT ABUTMENT GEOLOGIC ALIGNMENT (SEE PROFILE SHEET 07)

EXIST. EDGE OF WATER AT TIME OF SURVEY

EXIST. CONC.

EXIST. CONC.

EXIST. CONC.

TREE LINE (TYP.) APPROXIMATED FROM AERIAL VIEW

LEGEND

B1-B6 ADVANCED 01/16

B7-B9 ADVANCED 05/17

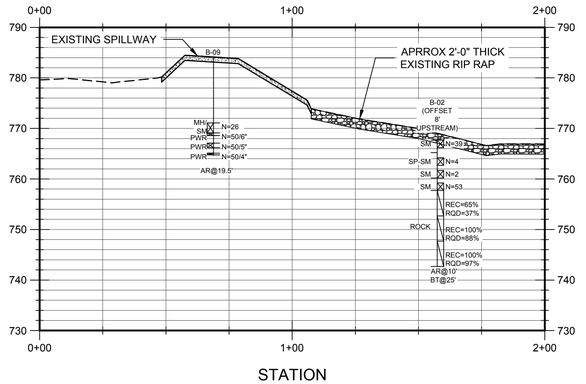
NOTE:

SUBSURFACE INVESTIGATION REPORT AVAILABLE FROM OWNER AT REQUEST OF CONTRACTOR

LAKE PEACHTREE

SCALE: 1"=20'

0 20' 40'



1 SPILLWAY CENTERLINE PROFILE

HORIZONTAL SCALE: 1"=30'

0 30' 60'

VERTICAL SCALE: 1"=15'

0 15' 30'

DESCRIPTION | DATE | REV.

DESIGNED BY: JTD, JC

DRAWN BY: DWB, CBR

CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING

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CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

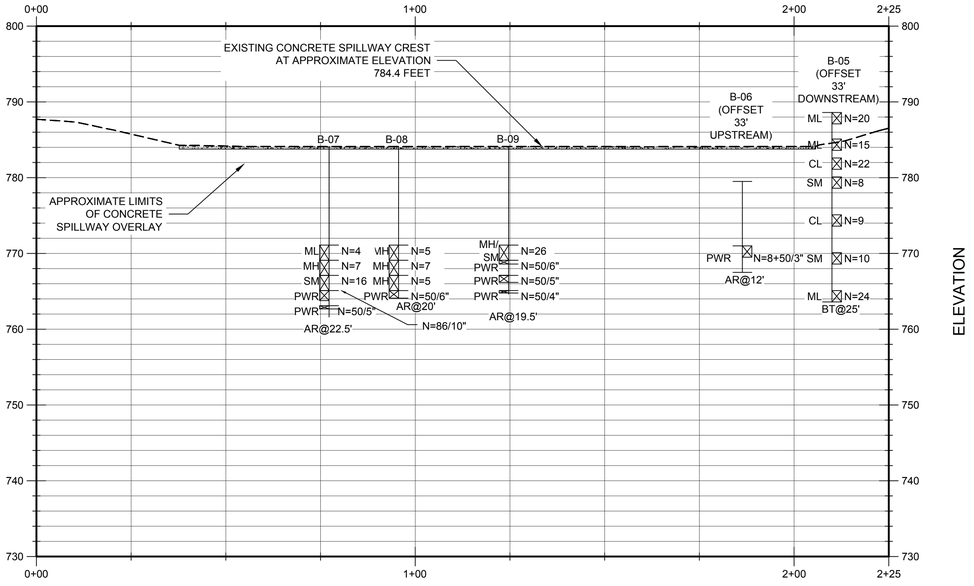
GEOTECHNICAL EXPLORATION PLAN

PROJECT: 16C17043.00

DATE: 07/10/2017

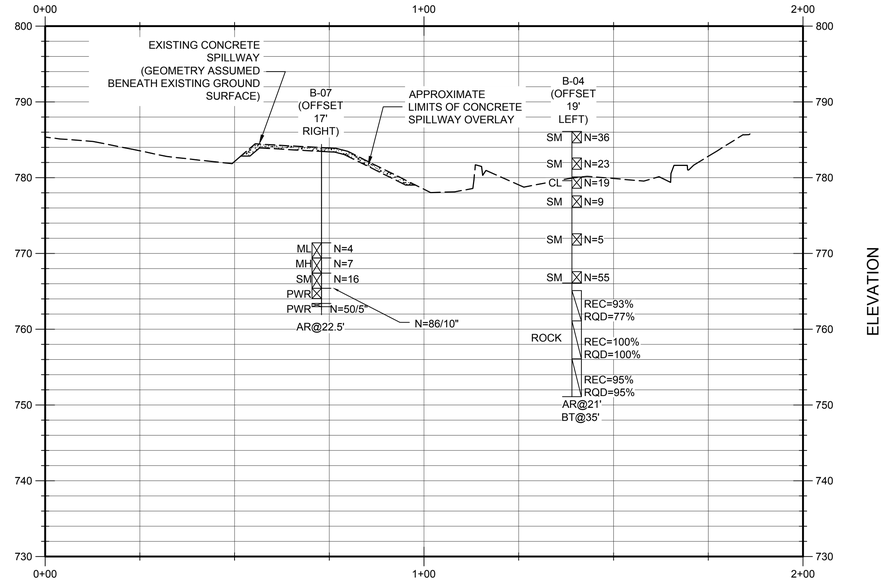
SHEET 06 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_GEOTECHNICAL EXPLORATION PLAN.DWG



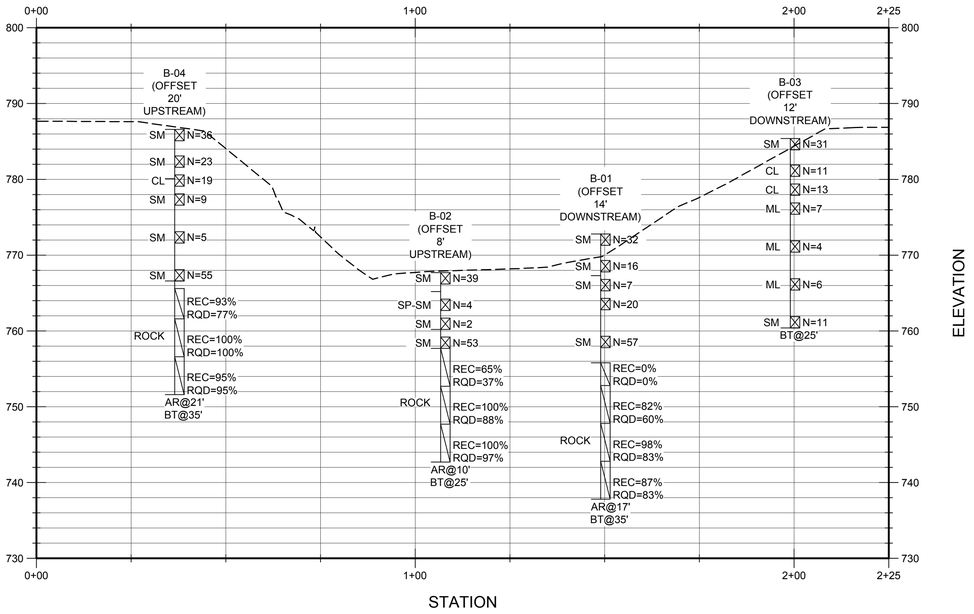
1/06 UPSTREAM GEOLOGIC PROFILE

HORIZONTAL SCALE: 1"=20'
0 20' 40'
VERTICAL SCALE: 1"=10'
0 10' 20'



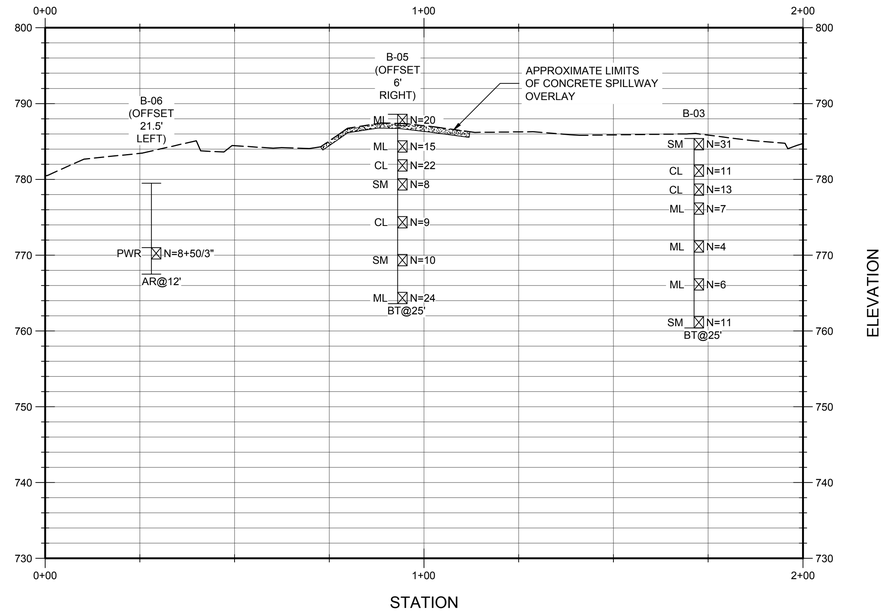
3/06 LEFT ABUTMENT GEOLOGIC PROFILE

HORIZONTAL SCALE: 1"=20'
0 20' 40'
VERTICAL SCALE: 1"=10'
0 10' 20'



2/06 DOWNSTREAM GEOLOGIC PROFILE

HORIZONTAL SCALE: 1"=20'
0 20' 40'
VERTICAL SCALE: 1"=10'
0 10' 20'



4/06 RIGHT ABUTMENT GEOLOGIC PROFILE

HORIZONTAL SCALE: 1"=20'
0 20' 40'
VERTICAL SCALE: 1"=10'
0 10' 20'

NOTE:

THICKNESS OF EXISTING CONCRETE SPILLWAY OVERLAY VARIES. CONTRACTOR SHALL ANTICIPATE VARIATION DURING DEMOLITION

NO.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GNB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

GEOLOGIC PROFILES

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
07 OF 66

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N

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CONTRACTOR SHALL NOTIFY THE CITY FIVE (5) BUSINESS DAYS PRIOR TO CLOSING CART PATHS AND ROAD.

JERSEY BARRIER WITH WARNING LIGHTS (CONCRETE OR WATER FILLED)

JERSEY BARRIER WITH WARNING LIGHTS (CONCRETE OR WATER FILLED)

JERSEY BARRIER WITH WARNING LIGHTS (CONCRETE OR WATER FILLED)

JERSEY BARRIER WITH WARNING LIGHTS (CONCRETE OR WATER FILLED)

DETOUR

Lakewood Ln

Bay View

Fishers Luck

Lakewood Ln

Fishers Luck

McIntosh Trail

Kelly Dr

Sweetgum Rd

Flat Creek

McIntosh Trail Recreation Complex

SCALE: 1"=75'

0 75' 150'

REV	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: DHB, JSR
CHECKED BY: AFB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA
No. 10685
PROFESSIONAL ENGINEER
RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

TRAIL CLOSURE PLAN

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
08 OF 66

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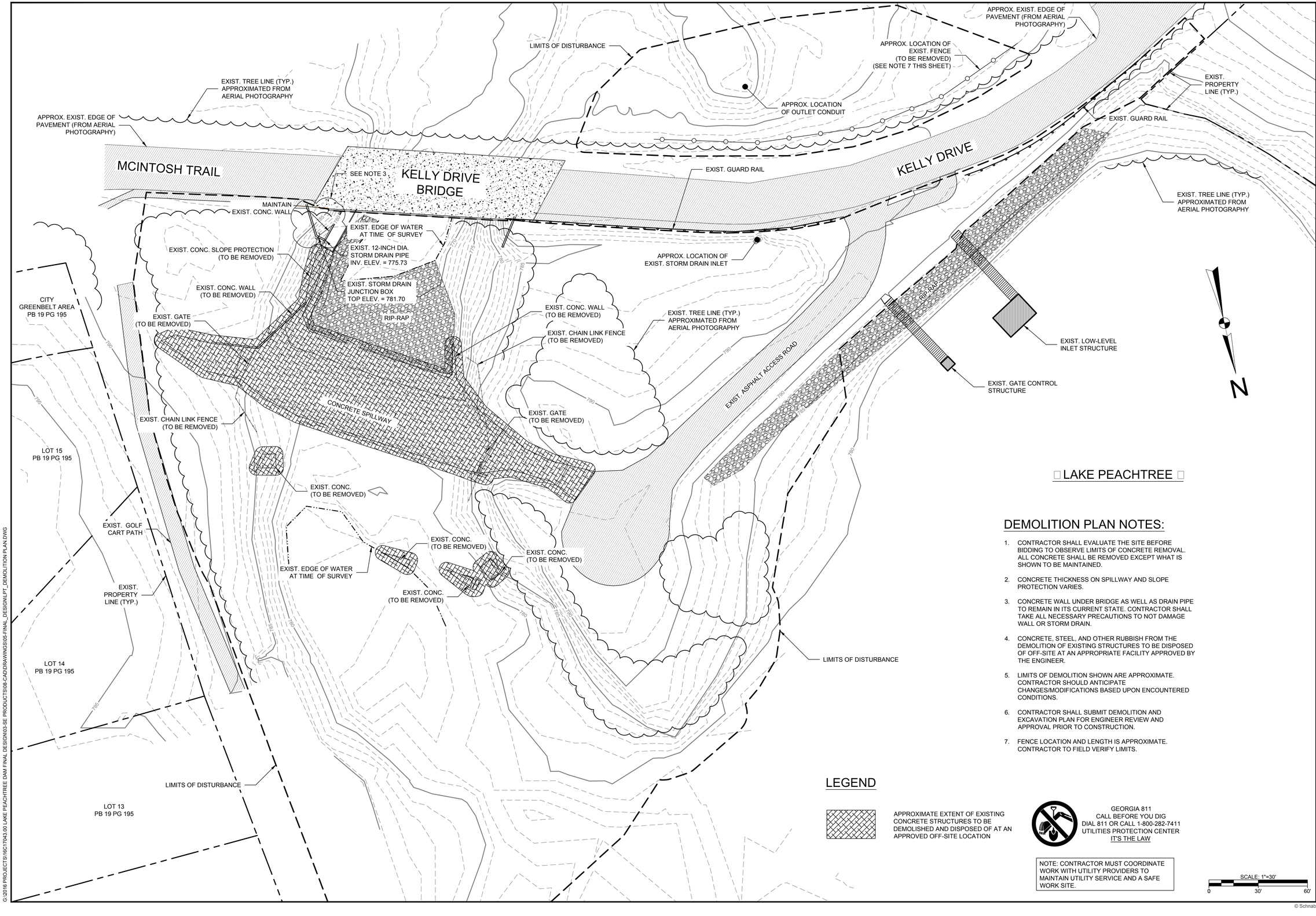

DEMOLITION PLAN NOTES:

1. CONTRACTOR SHALL EVALUATE THE SITE BEFORE BIDDING TO OBSERVE LIMITS OF CONCRETE REMOVAL. ALL CONCRETE SHALL BE REMOVED EXCEPT WHAT IS SHOWN TO BE MAINTAINED.
2. CONCRETE THICKNESS ON SPILLWAY AND SLOPE PROTECTION VARIES.
3. CONCRETE WALL UNDER BRIDGE AS WELL AS DRAIN PIPE TO REMAIN IN ITS CURRENT STATE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO NOT DAMAGE WALL OR STORM DRAIN.
4. CONCRETE, STEEL, AND OTHER RUBBISH FROM THE DEMOLITION OF EXISTING STRUCTURES TO BE DISPOSED OF OFF-SITE AT AN APPROPRIATE FACILITY APPROVED BY THE ENGINEER.
5. LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE. CONTRACTOR SHOULD ANTICIPATE CHANGES/MODIFICATIONS BASED UPON ENCOUNTERED CONDITIONS.
6. CONTRACTOR SHALL SUBMIT DEMOLITION AND EXCAVATION PLAN FOR ENGINEER REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
7. FENCE LOCATION AND LENGTH IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY LIMITS.

LEGEND

APPROXIMATE EXTENT OF EXISTING CONCRETE STRUCTURES TO BE DEMOLISHED AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION

GEORGIA 811
CALL BEFORE YOU DIG
DIAL 811 OR CALL 1-800-282-7411
UTILITIES PROTECTION CENTER
IT'S THE LAW

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY PROVIDERS TO MAINTAIN UTILITY SERVICE AND A SAFE WORK SITE.

SCALE: 1"=30'
0 30' 60'

DATE	DESCRIPTION	REV

DESIGNED BY: JTD, JC
DRAWN BY: DMB, JSR
CHECKED BY: RPB, JPC
DATE: 07/10/17

RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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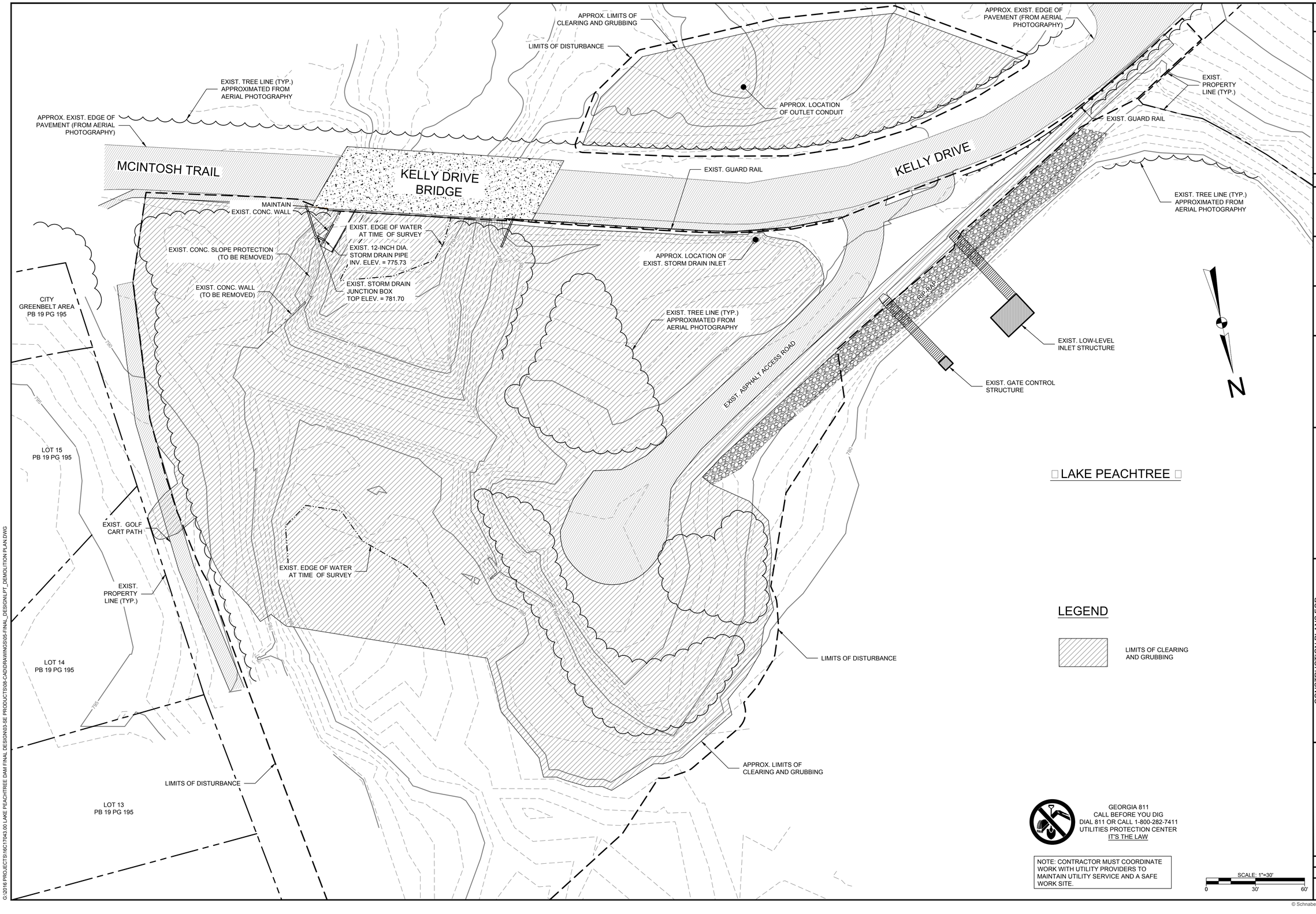
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

DEMOLITION PLAN

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 09 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_DEMOLITION PLAN.DWG



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DATE	DESCRIPTION	REV

DESIGNED BY: JTD, JC
DRAWN BY: DMB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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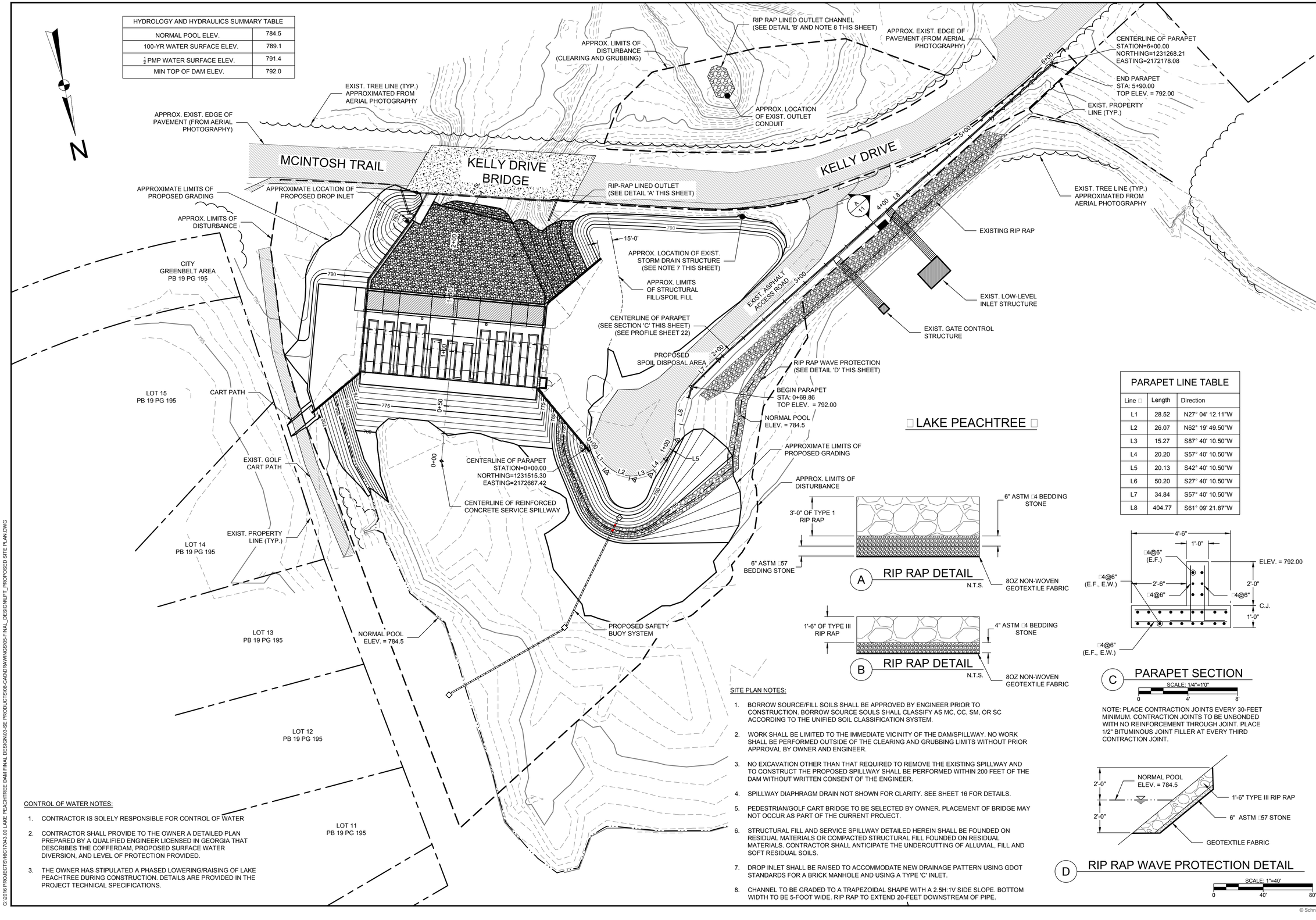
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

CLEARING AND GRUBBING PLAN

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
10 OF 66

HYDROLOGY AND HYDRAULICS SUMMARY TABLE	
NORMAL POOL ELEV.	784.5
100-YR WATER SURFACE ELEV.	789.1
½ PMP WATER SURFACE ELEV.	791.4
MIN TOP OF DAM ELEV.	792.0



PARAPET LINE TABLE		
Line	Length	Direction
L1	28.52	N27° 04' 12.11"W
L2	26.07	N62° 19' 49.50"W
L3	15.27	S87° 40' 10.50"W
L4	20.20	S57° 40' 10.50"W
L5	20.13	S42° 40' 10.50"W
L6	50.20	S27° 40' 10.50"W
L7	34.84	S57° 40' 10.50"W
L8	404.77	S61° 09' 21.87"W

A RIP RAP DETAIL
N.T.S.

B RIP RAP DETAIL
N.T.S.

C PARAPET SECTION
SCALE: 1/4"=1'0"
0 4' 8'

NOTE: PLACE CONTRACTION JOINTS EVERY 30-FEET MINIMUM. CONTRACTION JOINTS TO BE UNBONDED WITH NO REINFORCEMENT THROUGH JOINT. PLACE 1/2" BITUMINOUS JOINT FILLER AT EVERY THIRD CONTRACTION JOINT.

D RIP RAP WAVE PROTECTION DETAIL
SCALE: 1"=40'
0 40' 80'

SITE PLAN NOTES:

1. BORROW SOURCE/FILL SOILS SHALL BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION. BORROW SOURCE SOULS SHALL CLASSIFY AS MC, CC, SM, OR SC ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM.
2. WORK SHALL BE LIMITED TO THE IMMEDIATE VICINITY OF THE DAM/SPILLWAY. NO WORK SHALL BE PERFORMED OUTSIDE OF THE CLEARING AND GRUBBING LIMITS WITHOUT PRIOR APPROVAL BY OWNER AND ENGINEER.
3. NO EXCAVATION OTHER THAN THAT REQUIRED TO REMOVE THE EXISTING SPILLWAY AND TO CONSTRUCT THE PROPOSED SPILLWAY SHALL BE PERFORMED WITHIN 200 FEET OF THE DAM WITHOUT WRITTEN CONSENT OF THE ENGINEER.
4. SPILLWAY DIAPHRAGM DRAIN NOT SHOWN FOR CLARITY. SEE SHEET 16 FOR DETAILS.
5. PEDESTRIAN/GOLF CART BRIDGE TO BE SELECTED BY OWNER. PLACEMENT OF BRIDGE MAY NOT OCCUR AS PART OF THE CURRENT PROJECT.
6. STRUCTURAL FILL AND SERVICE SPILLWAY DETAILED HEREIN SHALL BE FOUNDED ON RESIDUAL MATERIALS OR COMPACTED STRUCTURAL FILL FOUNDED ON RESIDUAL MATERIALS. CONTRACTOR SHALL ANTICIPATE THE UNDERCUTTING OF ALLUVIAL, FILL AND SOFT RESIDUAL SOILS.
7. DROP INLET SHALL BE RAISED TO ACCOMMODATE NEW DRAINAGE PATTERN USING GDOT STANDARDS FOR A BRICK MANHOLE AND USING A TYPE 'C' INLET.
8. CHANNEL TO BE GRADED TO A TRAPEZOIDAL SHAPE WITH A 2.5H:1V SIDE SLOPE. BOTTOM WIDTH TO BE 5-FOOT WIDE. RIP RAP TO EXTEND 20-FEET DOWNSTREAM OF PIPE.

CONTROL OF WATER NOTES:

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTROL OF WATER
2. CONTRACTOR SHALL PROVIDE TO THE OWNER A DETAILED PLAN PREPARED BY A QUALIFIED ENGINEER LICENSED IN GEORGIA THAT DESCRIBES THE COFFERDAM, PROPOSED SURFACE WATER DIVERSION, AND LEVEL OF PROTECTION PROVIDED.
3. THE OWNER HAS STIPULATED A PHASED LOWERING/RAISING OF LAKE PEACHTREE DURING CONSTRUCTION. DETAILS ARE PROVIDED IN THE PROJECT TECHNICAL SPECIFICATIONS.

DATE | DESCRIPTION | REV

DESIGNED BY: JTD, JC
DRAWN BY: GHB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19885

GEORGIA REGISTERED ENGINEER No. 19885 PROFESSIONAL RANDALL P. BASS

Schnabel ENGINEERING
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schnabel-eng.com

CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

PROPOSED SITE PLAN OVERALL

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 11 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_PROPOSED SITE PLAN.DWG

N

KELLY DRIVE BRIDGE

MCINTOSH TRAIL

KELLY DRIVE

EXIST. TREE LINE (TYP.) APPROXIMATED FROM AERIAL PHOTOGRAPHY

APPROX. EXIST. EDGE OF PAVEMENT (APPROXIMATED FROM AERIAL PHOTOGRAPHY)

EXIST. STORM DRAIN PIPE INV. ELEV. = 781.28

EXIST. GUARD RAIL

APPROX. EXIST. EDGE OF PAVEMENT (APPROXIMATED FROM AERIAL PHOTOGRAPHY)

EXIST. SIDEWALK

APPROXIMATE LIMITS OF PROPOSED GRADING

EXIST. CONCRETE WALL

GDOT TYPE 'A' DROP INLET TOP ELEV. = 777.75 INV. ELEV. = 773.75

APPROX. LIMITS OF DISTURBANCE

3'-0" OF 12-INCH DIA. PVC DRAIN PIPE INV. OUT ELEV. = 773.5

EXIST. 12-INCH DIA. STORM DRAIN PIPE INV. ELEV. = 775.73

EXIST. STORM DRAIN JUNCTION BOX TOP ELEV. = 781.70

2+50

2+00

1+50

1+00

0+50

0+00

APPROX. LOCATION OF EXIST. STORM DRAIN STRUCTURE

15'-0"

SLOPE 1% MIN. TO DRAIN

PROPOSED SPOIL DISPOSAL AREA

SM-2

SM-4 (SEE SHEET 23 FOR DETAILS)

APPROXIMATE LIMITS OF STRUCTURAL FILL

EXIST. ASPHALT ACCESS ROAD

EXIST. RIP-RAP

CITY GREENBELT AREA PB 19 PG 195

SLOPE 1% MIN TO DRAIN

36-INCH DIA. SPILLWAY BYPASS CONDUIT (SEE DETAILS SHEET 41)

APPROXIMATE LIMITS OF PROPOSED PARAPET (SEE DETAIL 7 SHEET 22)

SPILLWAY BYPASS VAULT (SEE DETAILS SHEET 41)

LOT 15 PB 19 PG 195

EXIST. GOLF CART PATH

SM-1

SM-3

RIP RAP WAVE PROTECTION (SEE DETAILS SHEET 11)

APPROXIMATE LIMITS OF PROPOSED GRADING

APPROX. LIMITS OF DISTURBANCE

EXIST. PROPERTY LINE (TYP.)

CENTERLINE OF REINFORCED CONCRETE SERVICE SPILLWAY (SEE SHEETS 14 TO 66)

NORMAL POOL ELEV. = 784.5

CONCRETE ANCHOR TO BE DESIGNED BY MANUFACTURER (TYP.) (SEE DETAILS SHEET 13)

LOT 14 PB 19 PG 195

NORMAL POOL ELEV. = 784.5

SAFETY BUOY SYSTEM

LAKE PEACHTREE

SCALE: 1"=20'

0 20' 40'

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_PROPOSED SITE PLAN.DWG

DESCRIPTION	DATE

DESIGNED BY: JTD, JC

DRAWN BY: DHB, JSR

CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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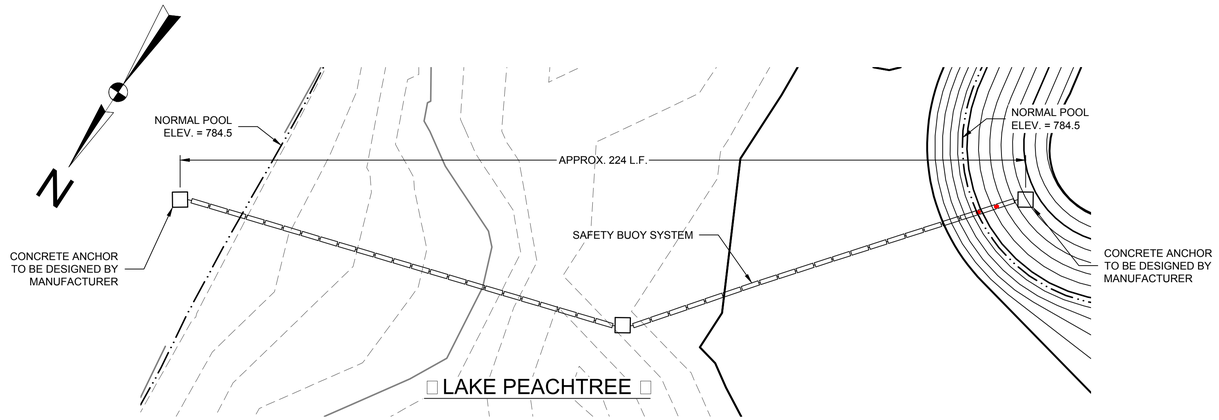
CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

PROPOSED SITE PLAN SPILLWAY

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET 12 OF 66



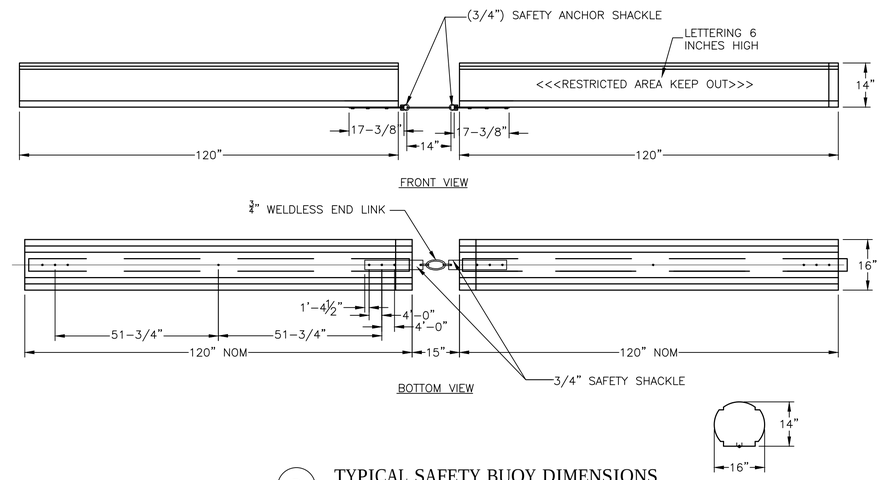
1 SAFETY BUOY SYSTEM LAYOUT PLAN

SCALE: 1"=20'

0 20' 40'

NOTES:

1. CONTRACTOR SHALL ARRANGE THE BUOYS IN THE GENERAL CONFIGURATION SHOWN ABOVE THE WATER LINE JUST PRIOR TO THE RAISING OF THE RESERVOIR BACK TO THE NORMAL POOL ELEVATION.
2. CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND ALL CONNECTIONS.
3. SAFETY BUOY SYSTEM SHALL BE TUFF BOOM BY WORTHINGTON PRODUCTS OR AN APPROVED EQUAL. ALL METAL COMPONENTS SHALL BE HOT DIPPED GALVANIZED
4. BUOY COLOR TO BE SELECTED BY OWNER.
5. ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED.
6. CONTRACTOR SHALL SUBMIT AN ANCHORAGE DESIGN FOR APPROVAL TO THE ENGINEER FOR THE SAFETY BUOY SYSTEM SUCH THAT THE SYSTEM CAN ACCOMMODATE A 10-FOOT RISE IN THE RESERVOIR AND 8 FOOT LOWERING OF NORMAL POOL WITHOUT MANUAL INTERVENTION.
7. LOCATION OF ANCHORS SHALL BE DETERMINED BY DESIGNER OF BUOY SYSTEM.
8. OWNER SHALL SELECT LETTERING FROM MANUFACTURER'S STANDARD OPTIONS.



2 TYPICAL SAFETY BUOY DIMENSIONS

N.T.S.

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: DHB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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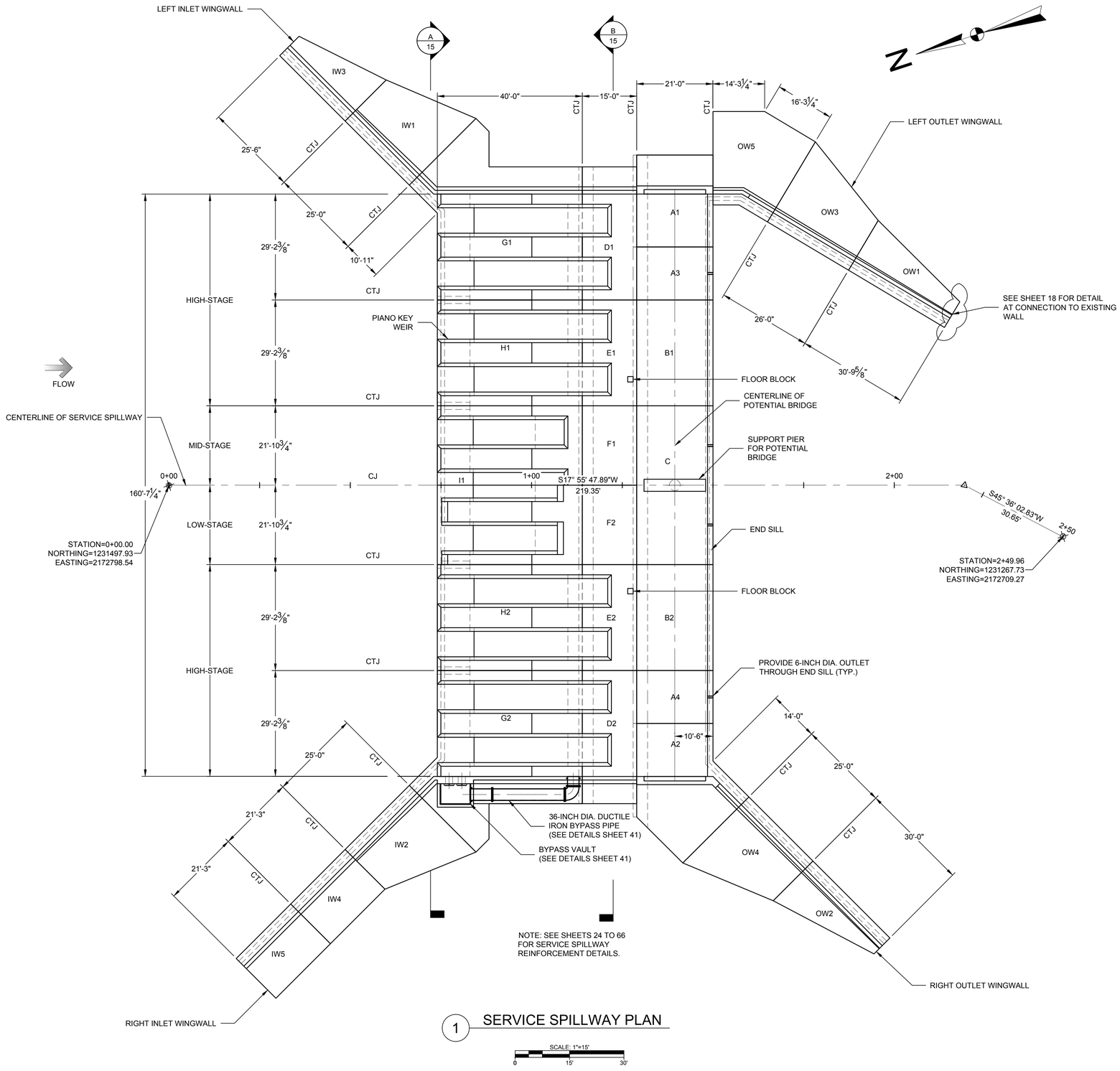
Phone: 770-781-8008 / Fax: 770-781-8003 /
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SAFETY BUOY SYSTEM DETAILS

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
13 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_FLOATING LOG AND SAFETY BARRIER.DWG



1 SERVICE SPILLWAY PLAN

SCALE: 1"=15'

0 15' 30'

NOTES:

1. THIS PLAN SHOWS THE LAYOUT OF THE SERVICE SPILLWAY SLABS. THE SLABS SHALL BE CAST ALTERNATELY IN THE TRANSVERSE DIRECTION.
2. CHAMFER ALL EXPOSED CORNERS 3/4" UNLESS OTHERWISE SHOWN.
3. CHAMFER ALL CONTRACTION JOINTS ON UPSTREAM SIDE OF PIANO KEY WALLS, INSIDE FACE OF SIDEWALL UPSTREAM OF PIANO KEY / SIDEWALL JUNCTION AND SLABS UPSTREAM OF PIANO KEY WALL 1-1/2", UNLESS OTHERWISE SHOWN.
4. NO CHAMFERS REQUIRED ON CONSTRUCTION JOINTS.
5. JOINT SEALANT REQUIRED ON UPSTREAM FACE OF ALL CONTRACTION JOINTS WITH 1-1/2" CHAMFER.
6. SEE SHEET 65 AND 66 FOR WATERSTOP DETAILS.
7. CONTRACTION JOINTS HAVE NO REINFORCING THROUGH THE JOINT AND THE CONCRETE SURFACES ARE UNBONDED.

CONCRETE SECTIONS:

- PIANO KEY CONCRETE CONSISTS OF THE CONCRETE PLACED FOR THE CONSTRUCTION OF THE PIANO KEY WALLS AND INLET/OUTLET RAMP SECTIONS.
- SLAB CONCRETE CONSISTS OF THE CONCRETE PLACED FOR THE CONSTRUCTION OF SLABS A1 THROUGH H2 AND THE SLABS ASSOCIATED WITH THE INLET AND OUTLET WINGWALLS.
- STRUCTURAL CONCRETE CONSISTS OF THE CONCRETE PLACED FOR THE CONSTRUCTION OF THE SPILLWAY SIDEWALLS, INLET AND OUTLET WINGWALLS, AND THE BYPASS VAULT WALLS.
- BACKFILL CONCRETE CONSISTS OF THE CONCRETE PLACED FOR THE CONSTRUCTION OF THE BYPASS SPILLWAY PIPE ENCASEMENT.

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: CWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

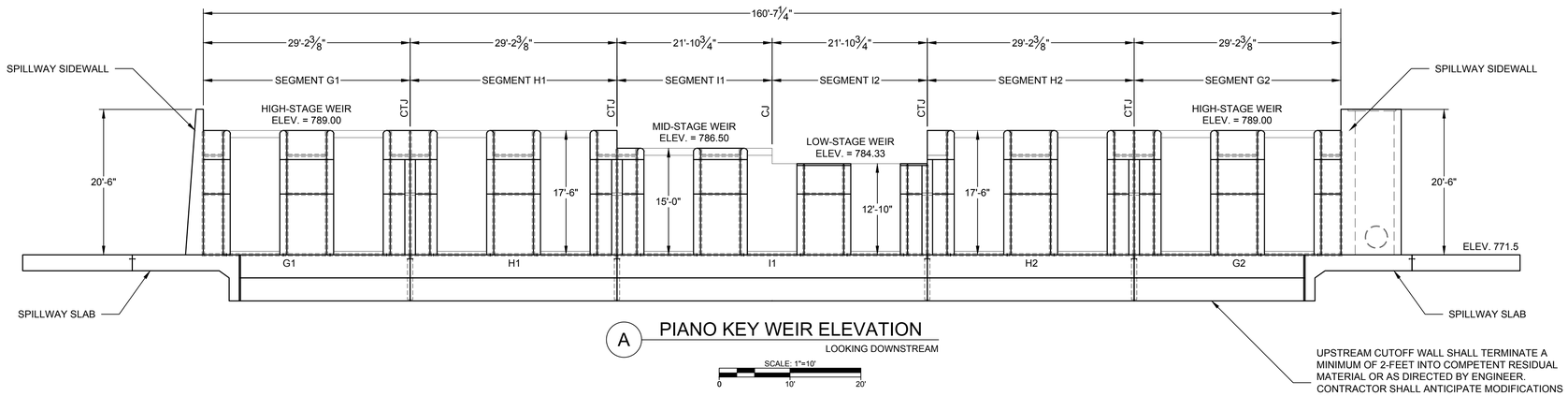
Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
Phone: 770-781-8008 / Fax: 770-781-8003 /
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SERVICE SPILLWAY LAYOUT PLAN

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
14 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_SPILLWAY PLAN AND PROFILE.DWG

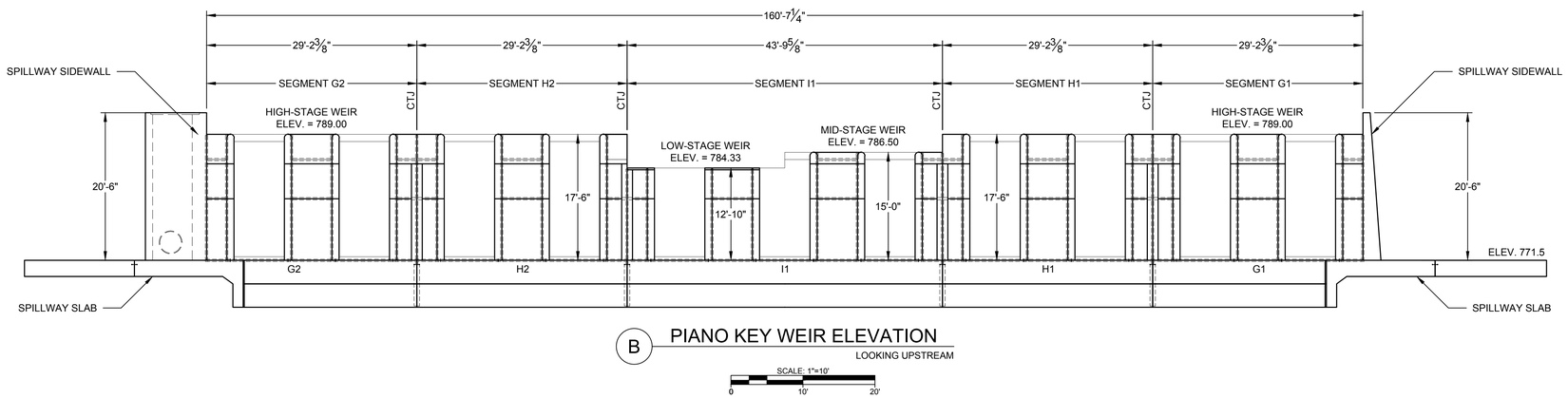


A PIANO KEY WEIR ELEVATION

LOOKING DOWNSTREAM

SCALE: 1"=10'

0 10' 20'



B PIANO KEY WEIR ELEVATION

LOOKING UPSTREAM

SCALE: 1"=10'

0 10' 20'

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GHB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

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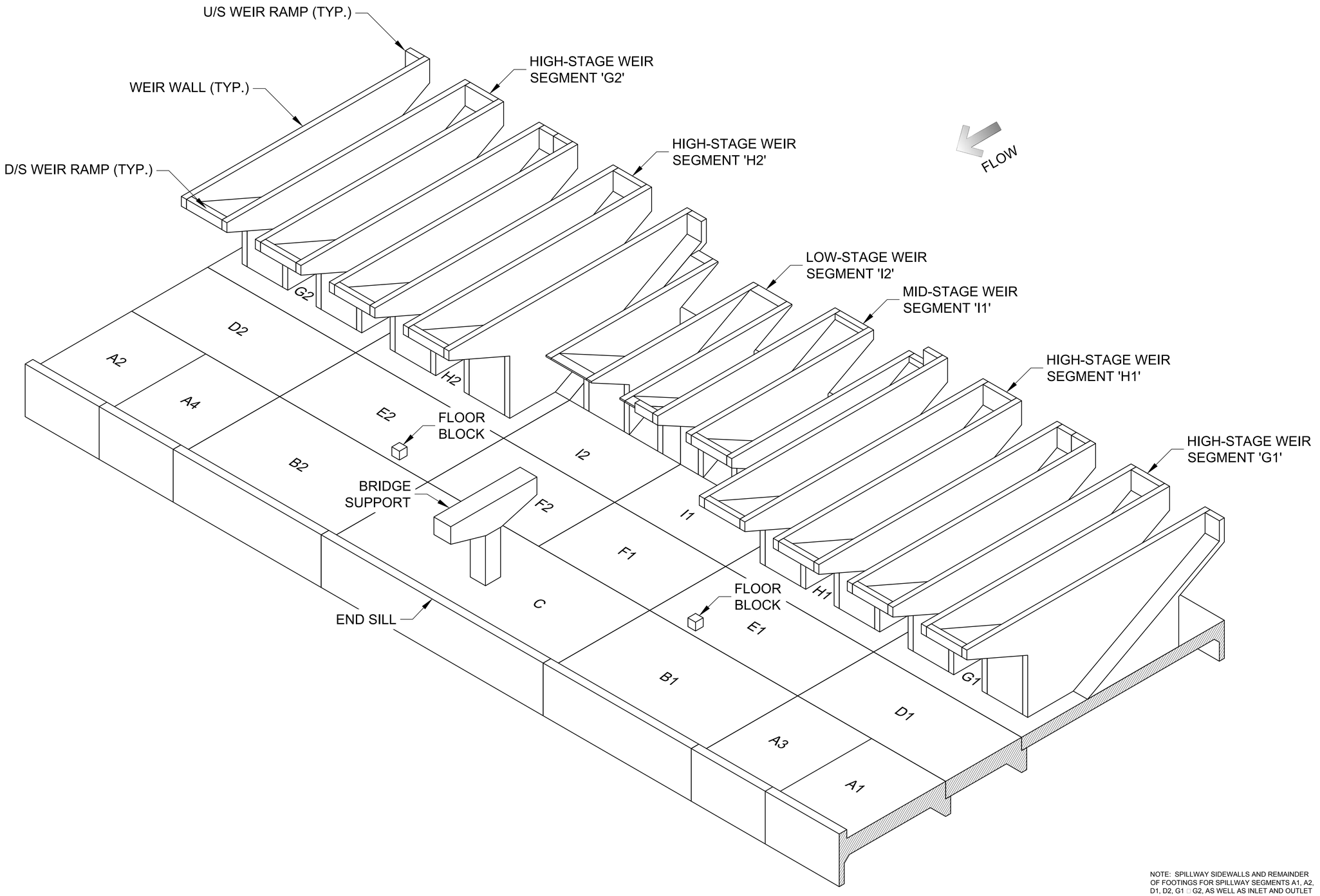
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

PIANO KEY WEIR ELEVATION VIEWS

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
15 OF 66



NOTE: SPILLWAY SIDEWALLS AND REMAINDER OF FOOTINGS FOR SPILLWAY SEGMENTS A1, A2, D1, D2, G1 ◌ G2, AS WELL AS INLET AND OUTLET WINGWALLS AND FOOTINGS NOT SHOWN FOR CLARITY. SEE SERVICE SPILLWAY LAYOUT PLAN SHEET 14 FOR ENTIRE SPILLWAY LAYOUT.

1 ISOMETRIC VIEW OF PIANO KEY WEIR
N.T.S.

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: DHB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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CONSTRUCTION PLANS FOR
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REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

PIANO KEY WEIR ISOMETRIC VIEW

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
16 OF 66

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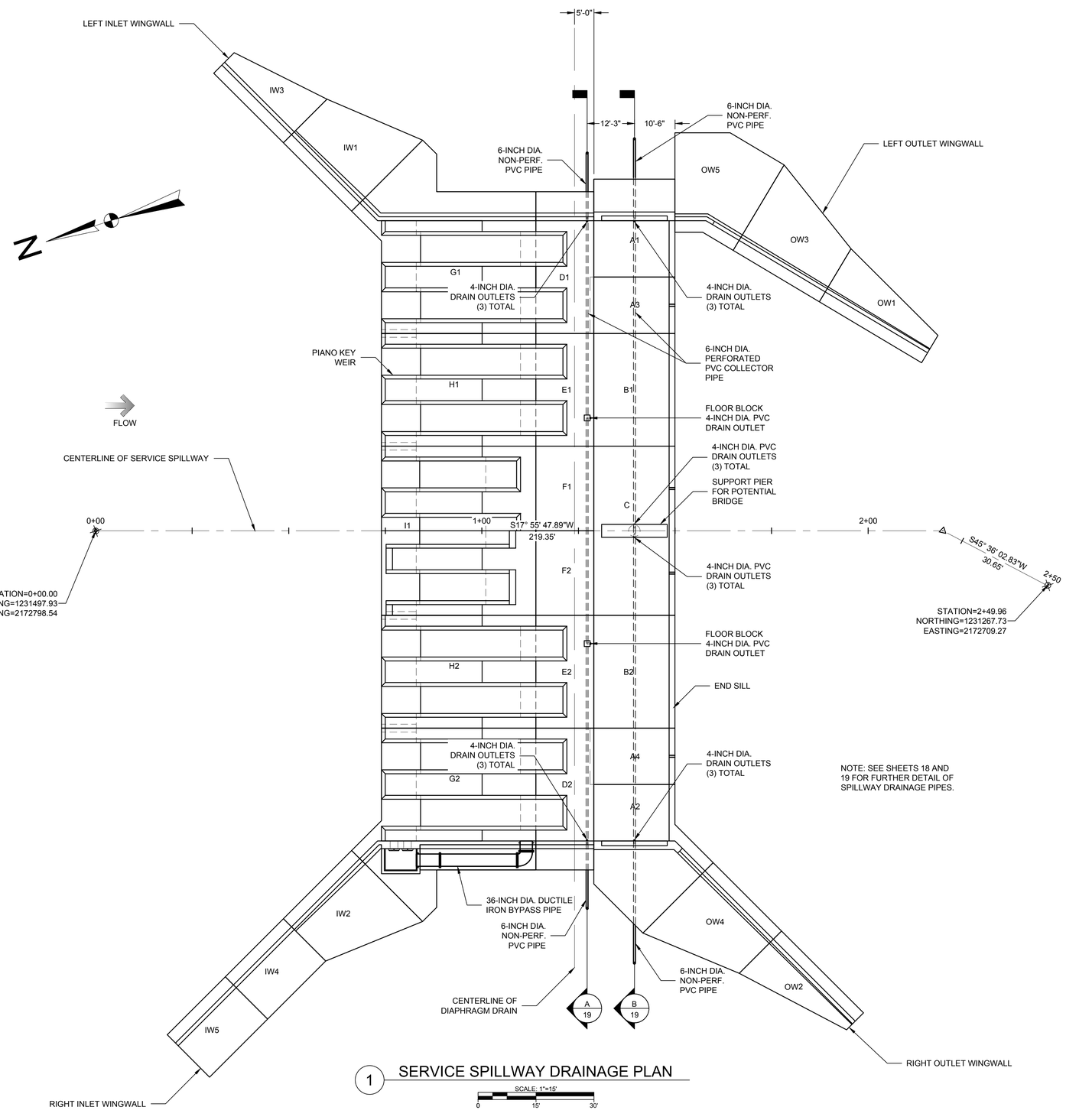

1 SERVICE SPILLWAY DRAINAGE PLAN

SCALE: 1"=15'

0 15' 30'

DESIGNED BY: JTD, JC

DRAWN BY: GHB, JSR

CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

REV. | DESCRIPTION | DATE

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

Schnabel ENGINEERING

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CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

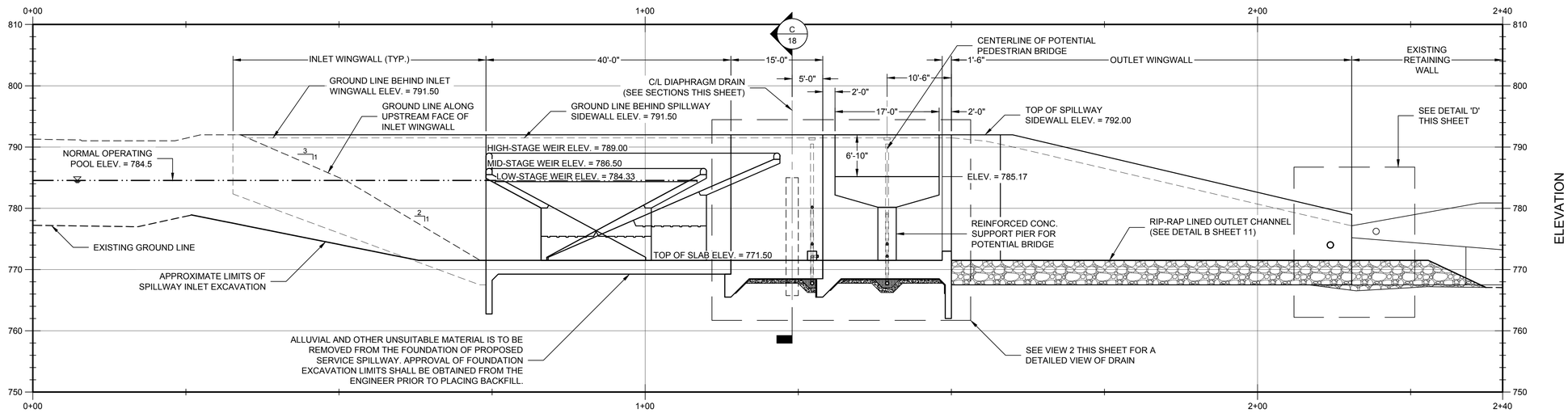
SERVICE SPILLWAY DRAINAGE PLAN

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET 17 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_SPILLWAY PLAN AND PROFILE.DWG



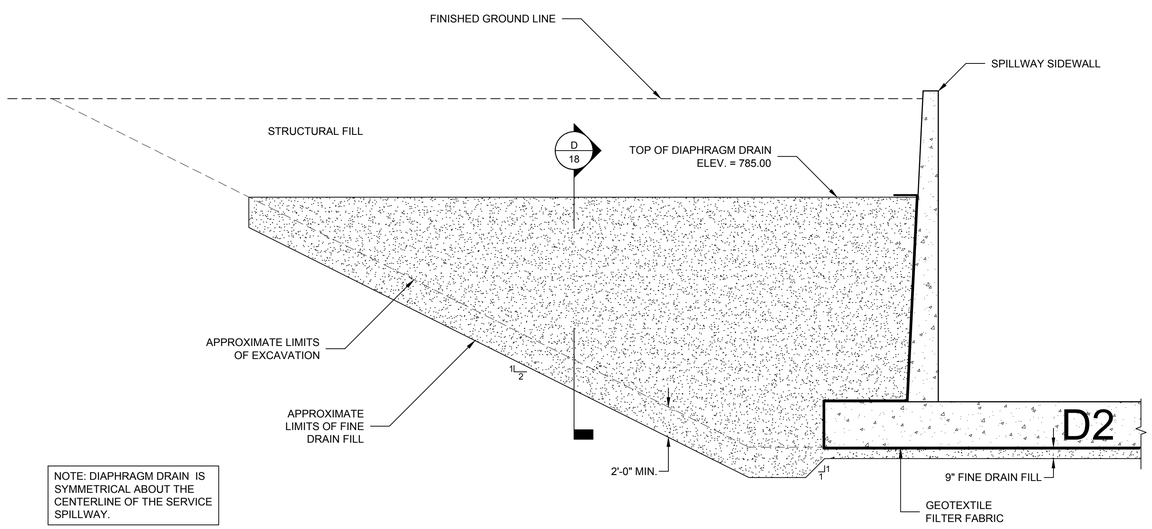
ELEVATION

FLOW

1 PROFILE THROUGH CENTERLINE OF SERVICE SPILLWAY

SCALE: 1"=10'

0 10' 20'

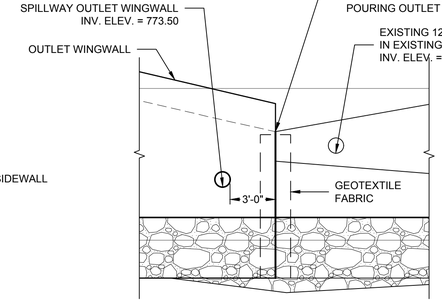


NOTE: DIAPHRAGM DRAIN IS SYMMETRICAL ABOUT THE CENTERLINE OF THE SERVICE SPILLWAY.

C DIAPHRAGM DRAIN SECTION

SCALE: 1"=5'

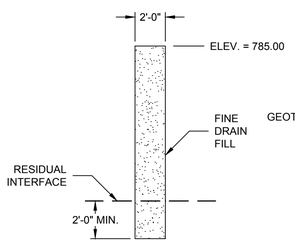
0 5' 10'



D WINGWALL CONNECTION

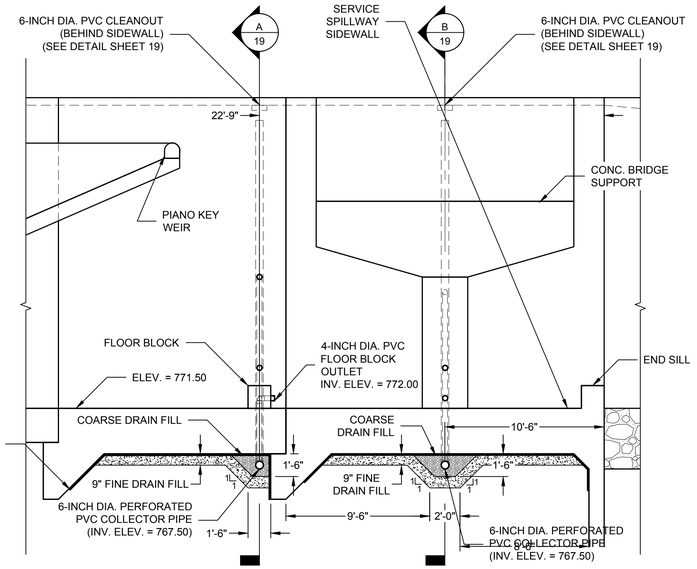
SCALE: 1"=5' N.T.S.

0 5' 10'



D DIAPHRAGM DRAIN SECTION

N.T.S.



FLOW

2 SERVICE SPILLWAY DRAINAGE DETAILS

SCALE: 1"=5'

0 5' 10'

DATE	DESCRIPTION	REV.

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

Schnabel ENGINEERING

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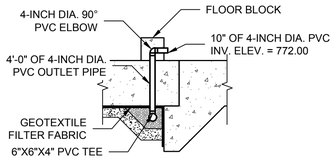
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SERVICE SPILLWAY DRAINAGE PROFILE

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
18 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_SPILLWAY PLAN AND PROFILE.DWG

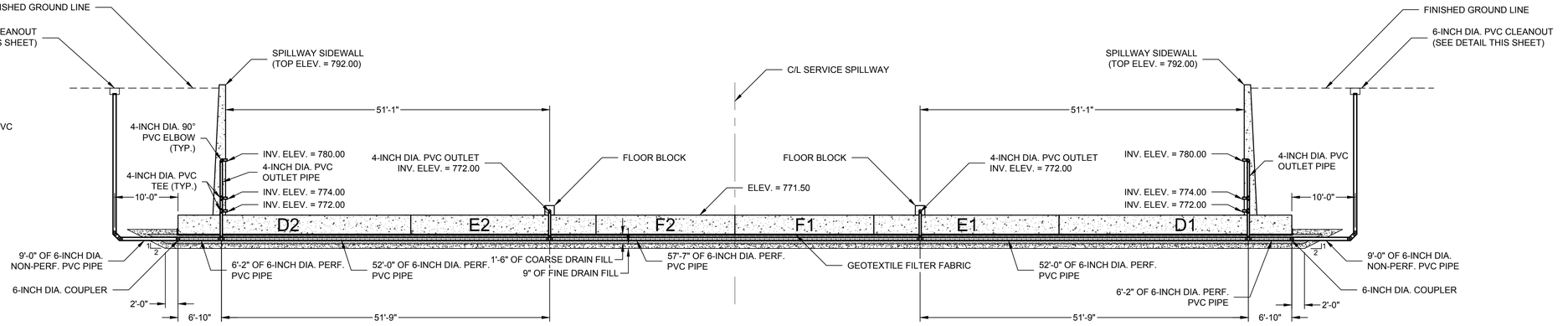


TYP. FLOOR BLOCK OUTLET DETAIL

SCALE: 1"=5'

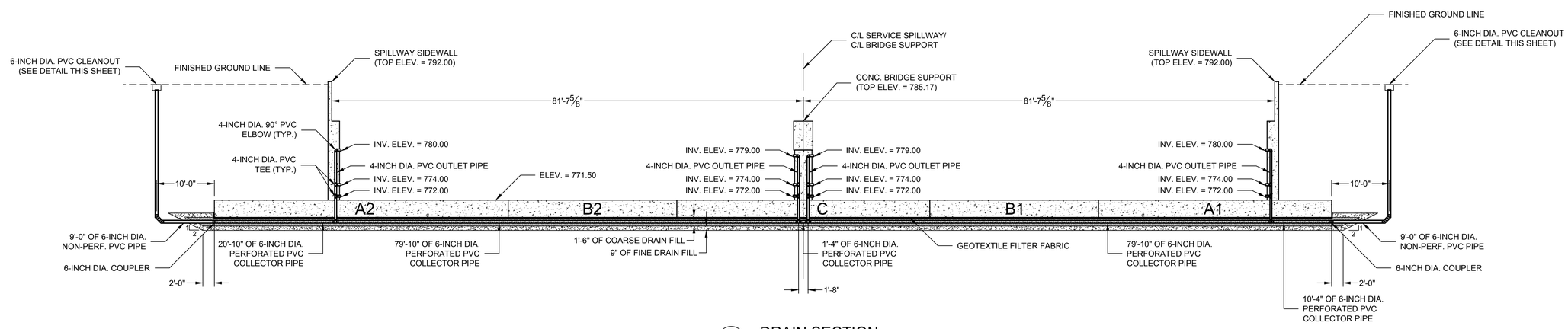
FLOW

FLOOR BLOCKS SYMMETRICAL ABOUT CENTERLINE OF SERVICE SPILLWAY



A/17 DRAIN SECTION

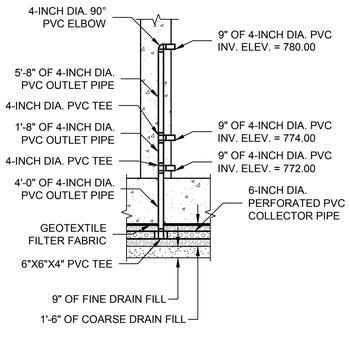
SCALE: 1"=10'



B/17 DRAIN SECTION

SCALE: 1"=10'

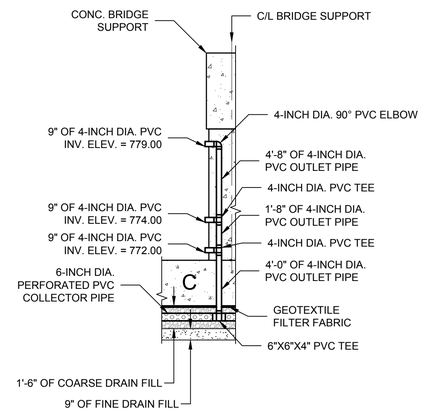
NOTE: INSTALL SMALL ANIMAL GUARDS ON ALL DRAIN PIPE OUTLETS. (I.E. FLOOR BLOCK OUTLETS, SIDEWALL OUTLETS, AND BRIDGE SUPPORT OUTLET LOCATIONS)



TYP. SIDEWALL OUTLETS DETAIL

SCALE: 1"=5'

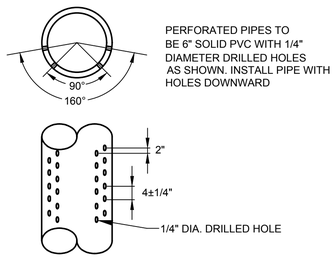
DRAIN OUTLETS SYMMETRICAL ABOUT CENTERLINE OF SERVICE SPILLWAY



TYP. BRIDGE SUPPORT OUTLETS DETAIL

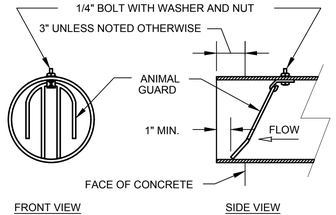
SCALE: 1"=5'

DRAIN OUTLETS SYMMETRICAL ABOUT CENTERLINE OF BRIDGE SUPPORT



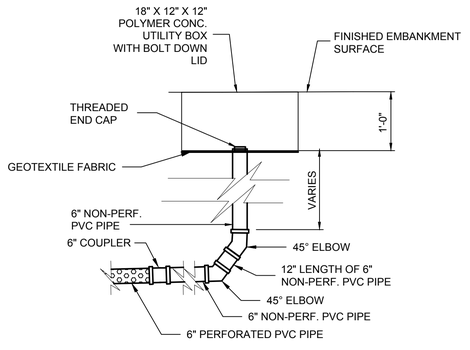
6" PERFORATED PIPE DETAIL

N.T.S.



ANIMAL GUARD DETAIL

N.T.S.
APPROVED MODEL MANUFACTURED BY "AGRI-DRAIN" OR EQUAL. (AGRI-DRAIN TELEPHONE NUMBER: 1-800-232-4742)



6" PVC CLEANOUT DETAIL

N.T.S.

DESIGNED BY: JTD, JC
DRAWN BY: GMB, JSR
CHECKED BY: RPB, JRC
DATE: 07/10/17
RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685
REGISTERED PROFESSIONAL ENGINEER GEORGIA No. 10685 RANDALL P. BASS

DESCRIPTION | DATE | REV

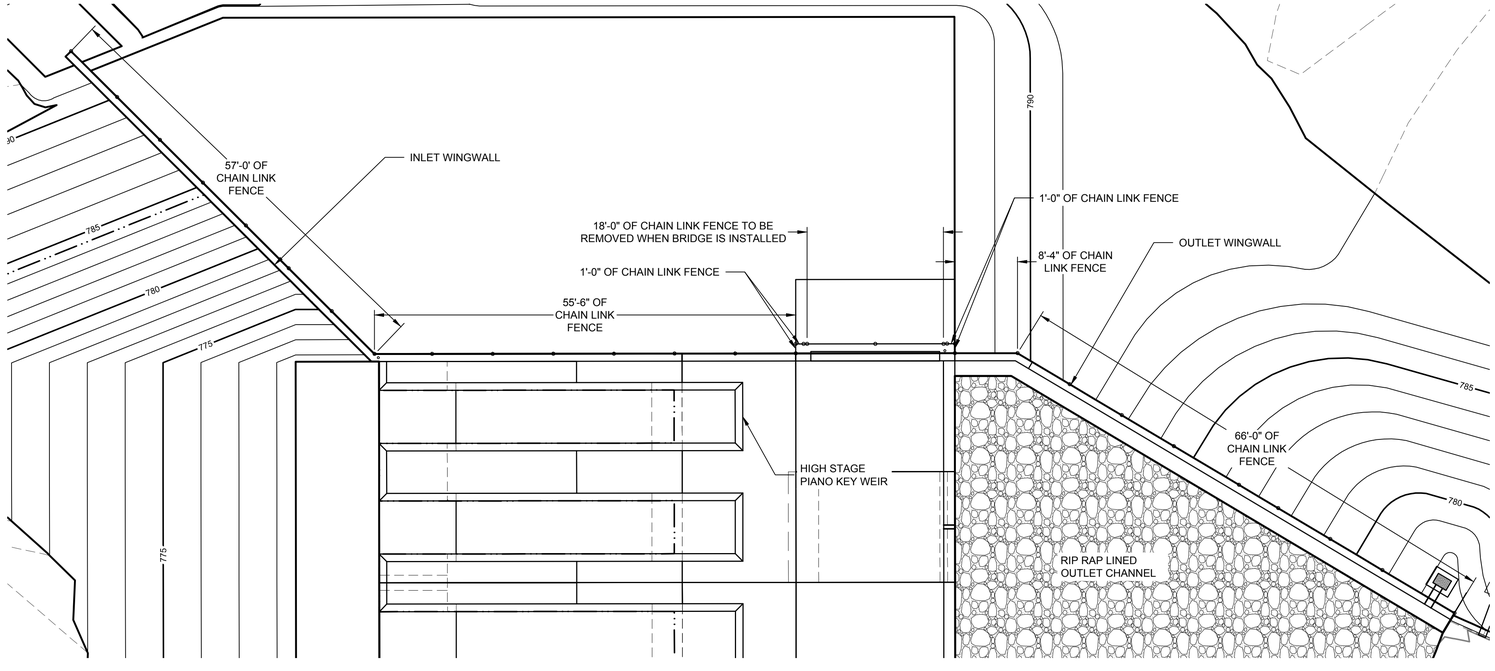
Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 / Phone: 770-781-8008 / Fax: 770-781-8003 / schnabel-eng.com

CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

SERVICE SPILLWAY DRAINAGE DETAILS

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 19 OF 66

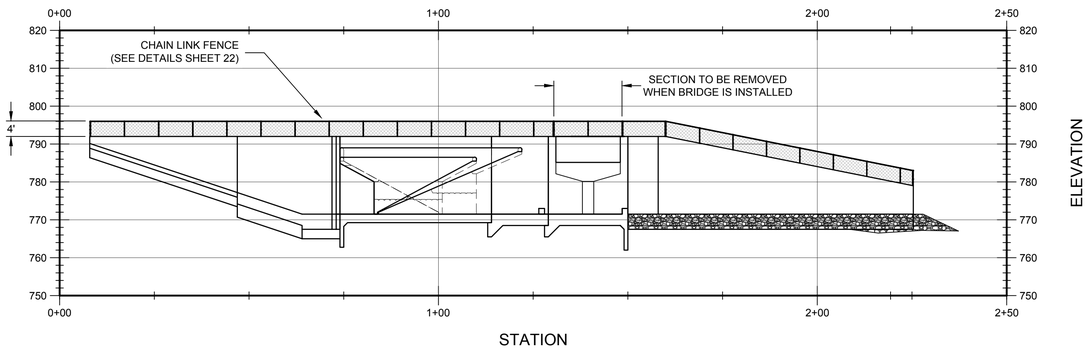
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_SPILLWAY PLAN AND PROFILE.DWG



1 SERVICE SPILLWAY FENCING LAYOUT PLAN

SCALE: 1"=10' (LEFT ABUTMENT)

0 10' 20'



2 SERVICE SPILLWAY FENCING PROFILE

SCALE: 1"=10' (LEFT ABUTMENT)

0 10' 20'

DESIGNED BY: JTD, JC
DRAWN BY: CWB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19685

REV. | DESCRIPTION | DATE

GEORGIA REGISTERED No. 19685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING

6445 Shiloh Road, Suite A / Alpharetta, GA 30005 / Phone: 770-781-8006 / Fax: 770-781-8003 / schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

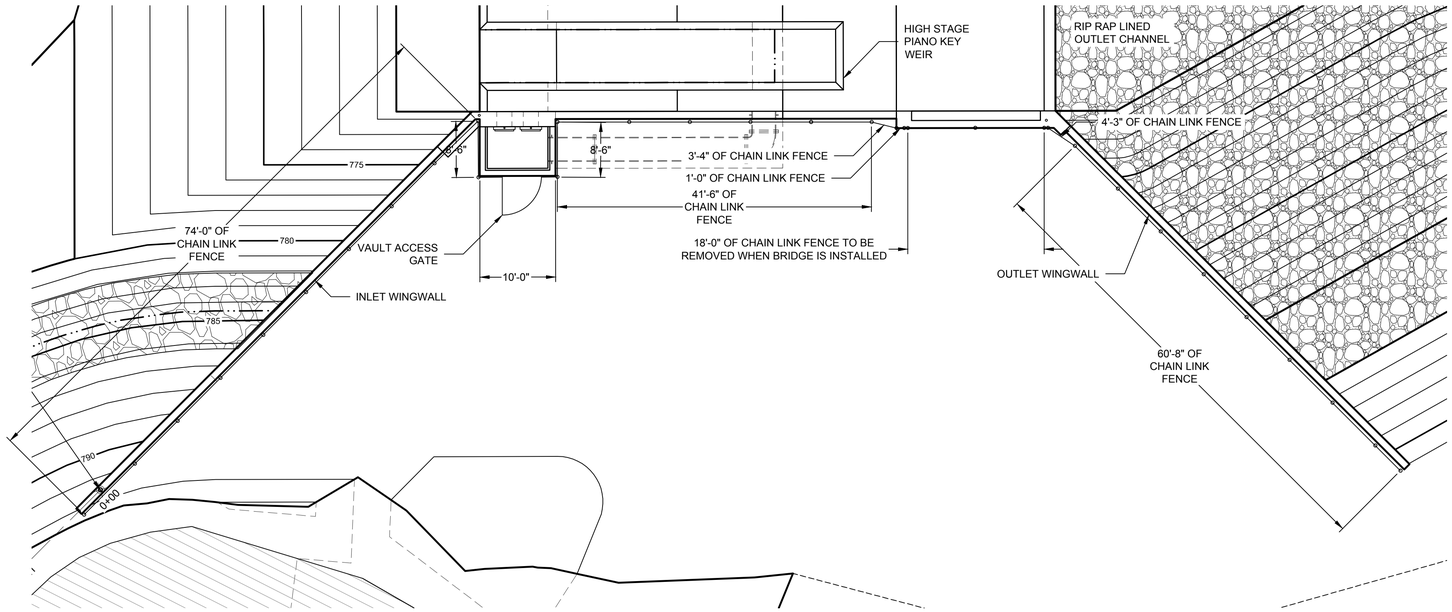
SERVICE SPILLWAY FENCING LAYOUT LEFT SIDE

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
20 OF 66

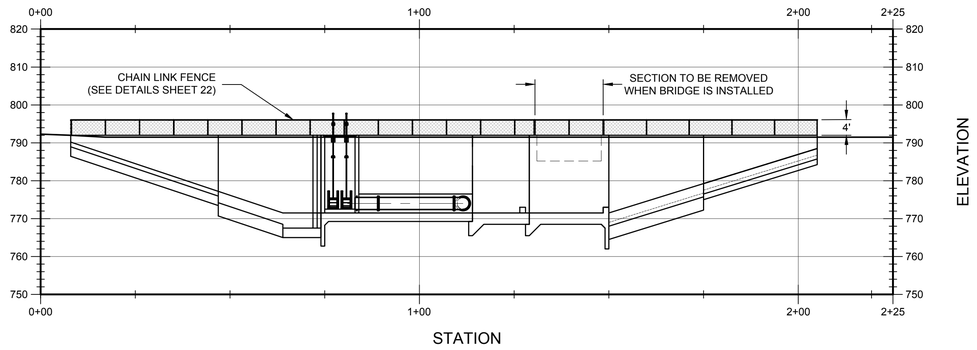
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN.LPT_PROPOSED SITE PLAN.DWG



1 SERVICE SPILLWAY FENCING LAYOUT PLAN (RIGHT ABUTMENT)

SCALE: 1"=10'

0 10' 20'



2 SERVICE SPILLWAY FENCING PROFILE (RIGHT ABUTMENT)

SCALE: 1"=10'

0 10' 20'

DESIGNED BY: JTD, JC
DRAWN BY: CMB, JSR
CHECKED BY: RPB, JPC
DATE: 07/10/17
RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685
REV. DESCRIPTION DATE

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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Phone: 770-781-8008 / Fax: 770-781-8003 /
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SERVICE SPILLWAY FENCING
LAYOUT RIGHT SIDE

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
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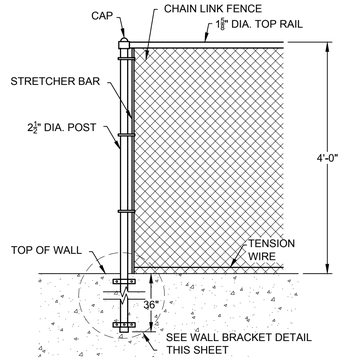
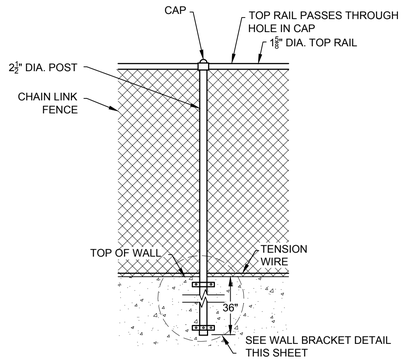


NOTES:
1. ALL FENCING AND HARDWARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. CHAIN LINK FENCE, RAILS, AND POSTS TO BE PLASTIC COATED.
3. STRETCHER BARS TO BE USED WITH CORNER OR END POST AT ALL HORIZONTAL OR VERTICAL BENDS.
4. CHAIN LINK FENCE FABRIC TO BE PLACED ON OUTSIDE OF POST.
5. REFER TO FENCING SPECIFICATION 02830.

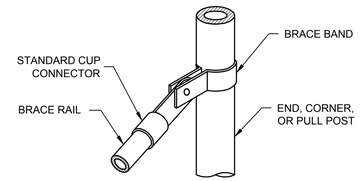
1 SPILLWAY FENCING - END POST DETAIL

N.T.S.



2 SPILLWAY FENCING - INTERIOR POST DETAIL

N.T.S.

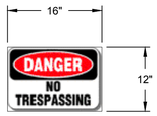


3 DETAIL OF BRACE CONNECTION

N.T.S.

SIGNS

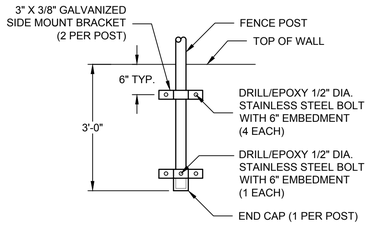
TC42924 - DAM ACCESS ROAD GATE, CHUTE SPILLWAY FENCING



NOTES:
1. SIGNS BY EMEDCO OR APPROVED EQUAL.
2. SIGNS SHALL BE REFLECTIVE ALUMINUM.
3. SIGN SHALL BE CENTERED ON THE GATE WITH TOP OF SIGN 4" FROM TOP OF THE GATE

4 SIGNAGE DETAIL

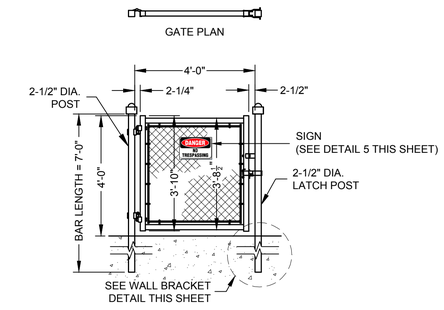
N.T.S.



5 WALL BRACKET DETAIL

(MOUNTED TO OUTSIDE FACE OF SPILLWAY SIDEWALL)

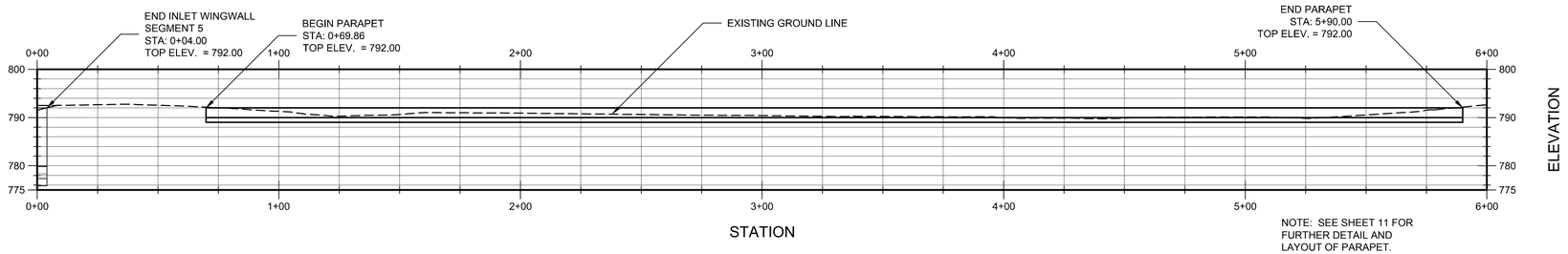
N.T.S.



SINGLE GATE ELEVATION

6 GATE DETAIL

N.T.S.



NOTE: SEE SHEET 11 FOR FURTHER DETAIL AND LAYOUT OF PARAPET.

7 PARAPET PROFILE

HORIZONTAL SCALE
0 30' 60'
VERTICAL SCALE
0 15' 30'

DESIGNED BY: JTD, JC
DRAWN BY: GMB, JSR
CHECKED BY: RPB, JPC
RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685
REV. DESCRIPTION DATE

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

SERVICE SPILLWAY FENCING DETAILS

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 22 OF 66

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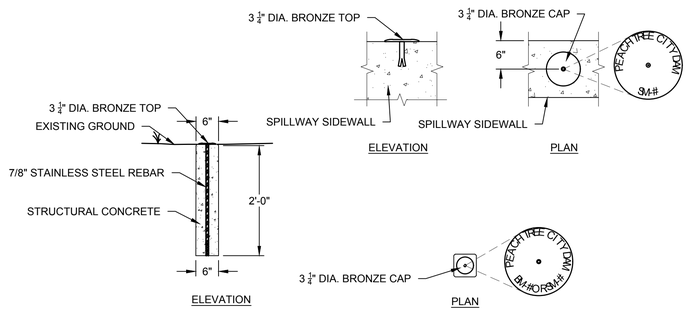
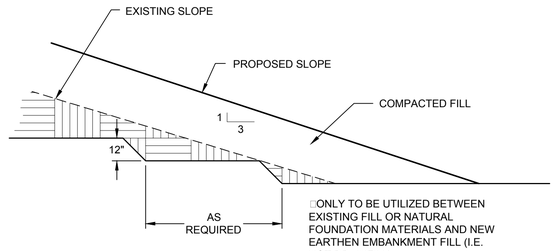


BENCHMARK/SETTLEMENT MONUMENT DETAIL

N.T.S.

STRUCTURAL MONITORING LOCATIONS						
Point	Elevation	Northing	Easting	Description	Baseline Station	Offset
SM-1	792.00	1231402.73	2172852.72	STRUCTURAL MONUMENT	0+73.96	80.80L
SM-2	792.00	1231331.35	2172830.51	STRUCTURAL MONUMENT	1+48.71	81.60L
SM-3	792.00	1231452.48	2172698.97	STRUCTURAL MONUMENT	0+73.85	80.80R
SM-4	792.00	1231381.48	2172675.21	STRUCTURAL MONUMENT	1+48.71	81.60R

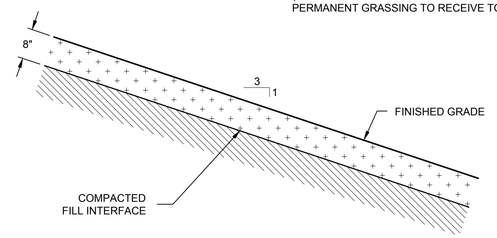
NOTE: SEE SHEET 10 FOR PLAN LOCATIONS



BENCH DETAIL

N.T.S.

(ALL EMBANKMENT AREAS THAT WILL RECEIVE PERMANENT GRASSING TO RECEIVE TOPSOIL.)



TOPSOIL DETAIL

N.T.S.

FILL MATERIALS	STRUCTURAL FILL - COMPACTION REQUIREMENTS						
DESCRIPTION	UNIFIED CLASS	PERCENT OF MAXIMUM DENSITY	MOISTURE LIMITS PERCENT OPTIMUM FROM	MOISTURE LIMITS PERCENT OPTIMUM TO	MAXIMUM LAYER THICKNESS INCHES UNCOMPACTED	MAX. ROCK SIZE IN INCHES	CONTROL TEST A.S.T.M. DESIGN
SANDY SILT	ML	95 (MIN)	OPT.	+4	9	6	ASTM D-698
SILTY SAND	SM	95 (MIN)	OPT.	+4	9	6	ASTM D-698
CLAYEY SAND	SC	95 (MIN)	OPT.	+4	9	6	ASTM D-698
LEAN CLAY	CL	95 (MIN)	OPT.	+4	9	6	ASTM D-698

NOTE:

1. EXCESS SOILS AND ROCK SHALL BE USED AS NON-STRUCTURAL FILL IN THE AREA DEPICTED AS "SPOIL AREA" ON THE DRAWINGS. THE EXCESS FILL MATERIAL SHALL NOT CONTAIN ORGANICS SUCH AS TREE STUMPS, BRANCHES AND BRUSH. COMPACTION IN DESIGNATED SPOIL AREA SHALL BE A MINIMUM OF 92 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST ASTM D698

FILL MATERIALS	STRUCTURAL FILL - PIANO KEY SUBGRADE COMPACTION REQUIREMENTS						
DESCRIPTION	UNIFIED CLASS	PERCENT OF MAXIMUM DENSITY	MOISTURE LIMITS PERCENT OPTIMUM FROM	MOISTURE LIMITS PERCENT OPTIMUM TO	MAXIMUM LAYER THICKNESS INCHES UNCOMPACTED	MAX. ROCK SIZE IN INCHES	CONTROL TEST A.S.T.M. DESIGN
SANDY SILT	ML	98 (MIN)	OPT.	+4	9	6	ASTM D-1557
SILTY SAND	SM	98 (MIN)	OPT.	+4	9	6	ASTM D-1557
CLAYEY SAND	SC	98 (MIN)	OPT.	+4	9	6	ASTM D-1557
LEAN CLAY	CL	98 (MIN)	OPT.	+4	9	6	ASTM D-1557

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC
DATE: 07/10/17
RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 19685
REV
DESCRIPTION
DATE

GEORGIA REGISTERED No. 19685 PROFESSIONAL ENGINEER RANDALL P. BASS

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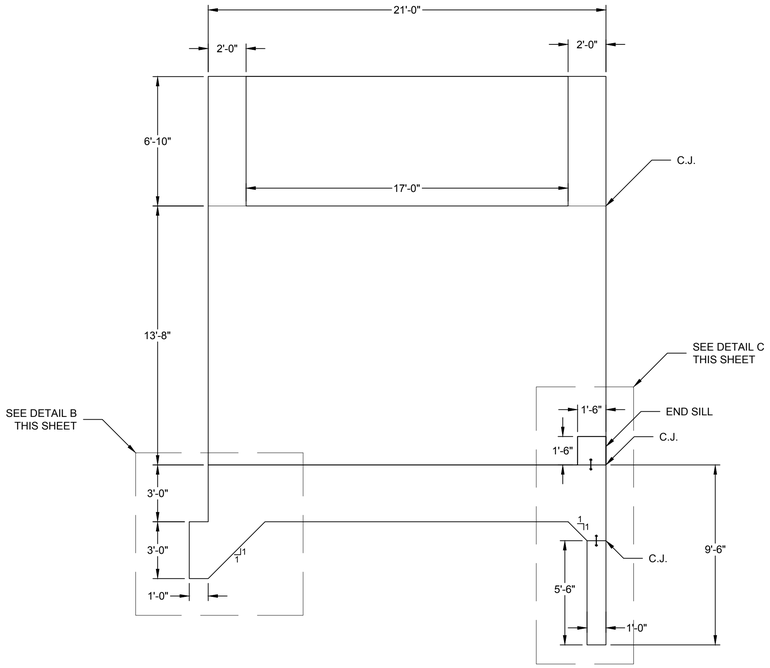
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

INSTRUMENTATION AND EARTHWORK DETAILS

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
23 OF 66

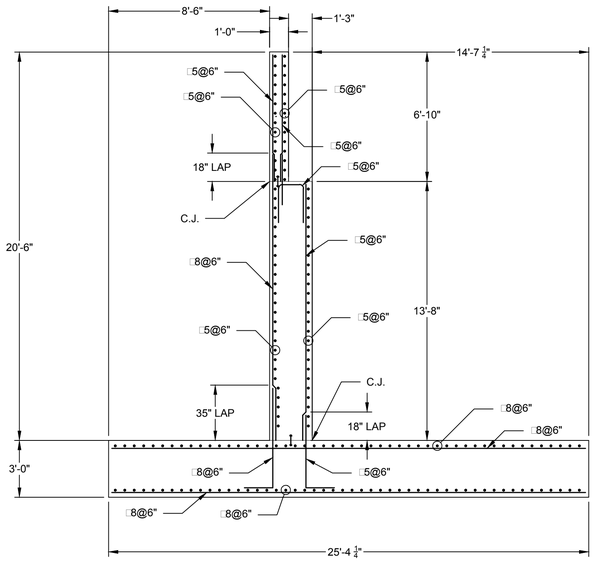
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_EMBANKMENT DETAILS.DWG



1 SEGMENT A1 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"

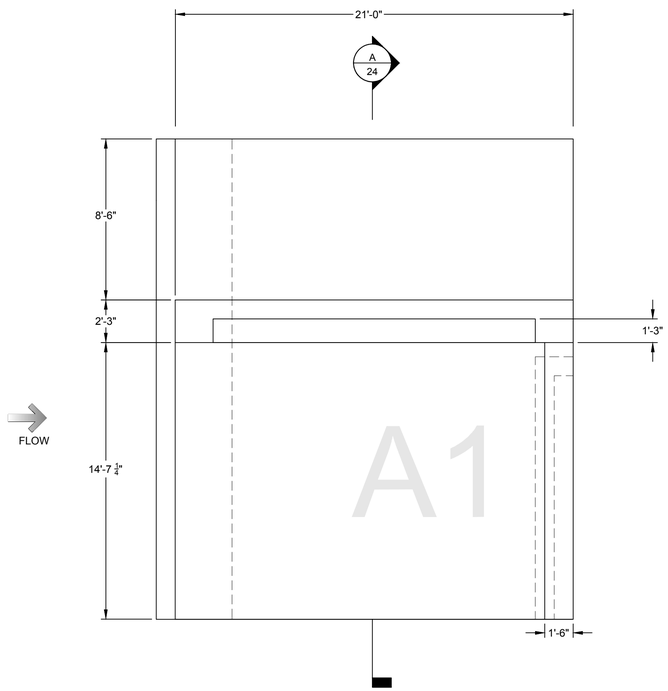
0 4' 8'



A SEGMENT A1 SECTION

SCALE: 1/4"=1'0"

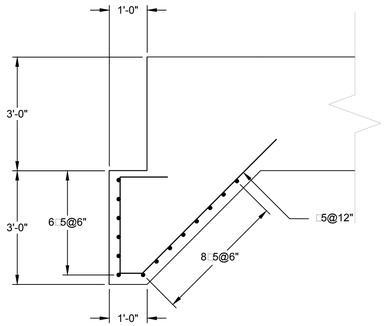
0 4' 8'



2 SEGMENT A1 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

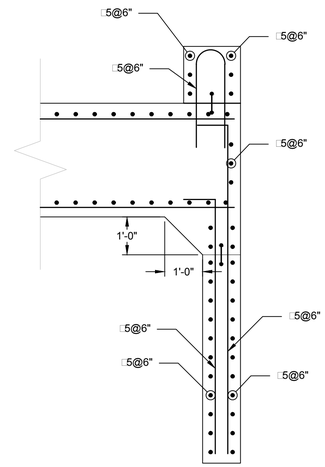


B CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)



C KEY WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS
SEGMENT A1

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
24 OF 66

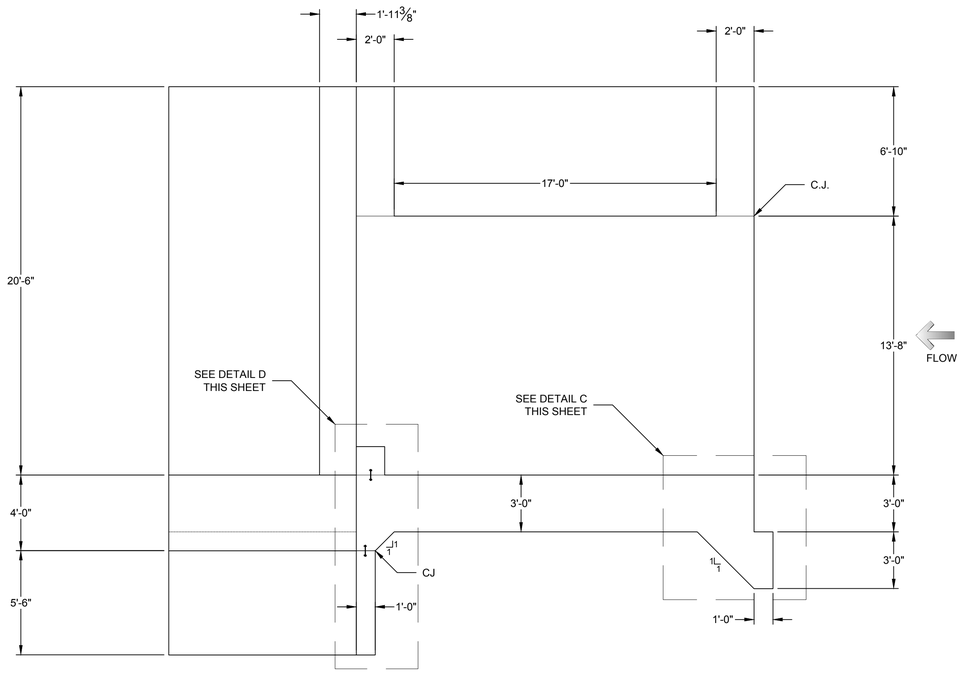
DESIGNED BY: JTD, JC
DRAWN BY: CWB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

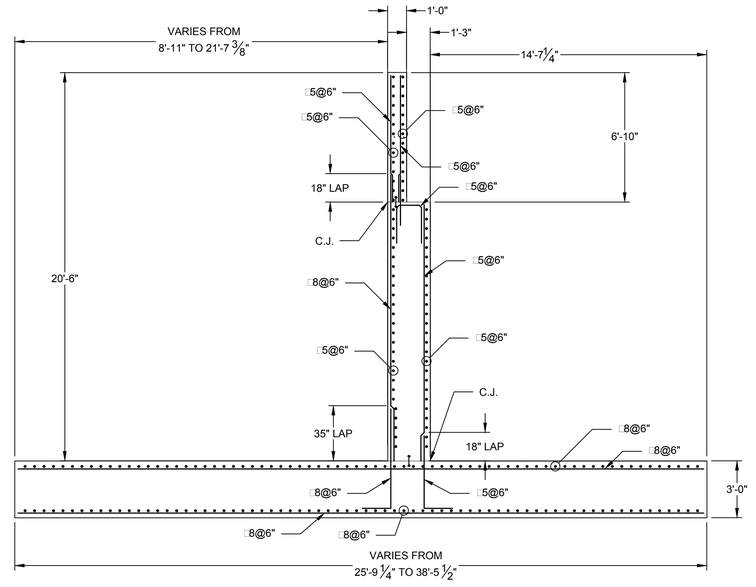
REV.	DESCRIPTION	DATE

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



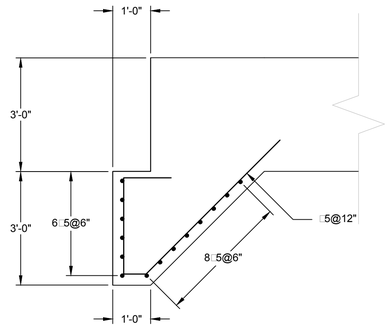
1 SEGMENT A2 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"



A SEGMENT A2 SECTION

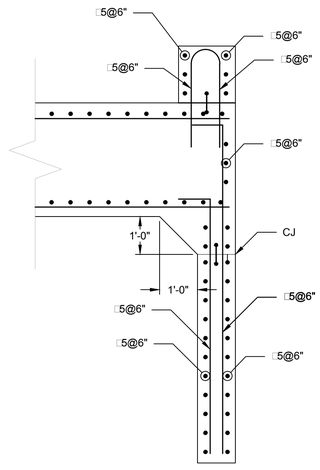
SCALE: 1/4"=1'0"



C CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

(TYPICAL)

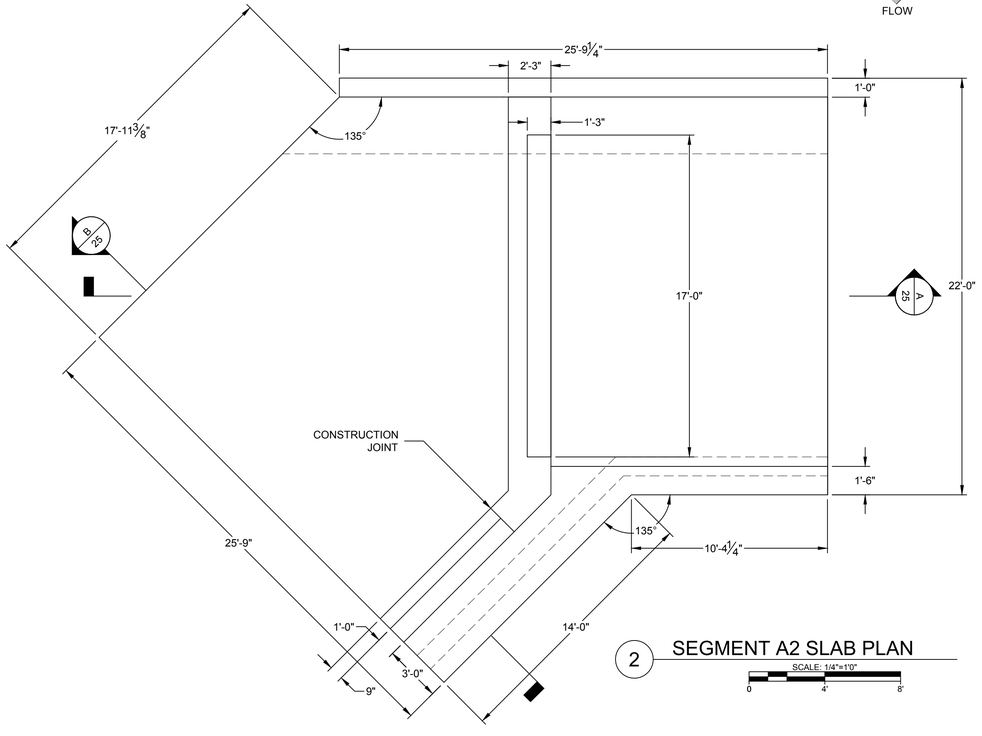


D KEY WALL DETAIL

SCALE: 1/2"=1'0"

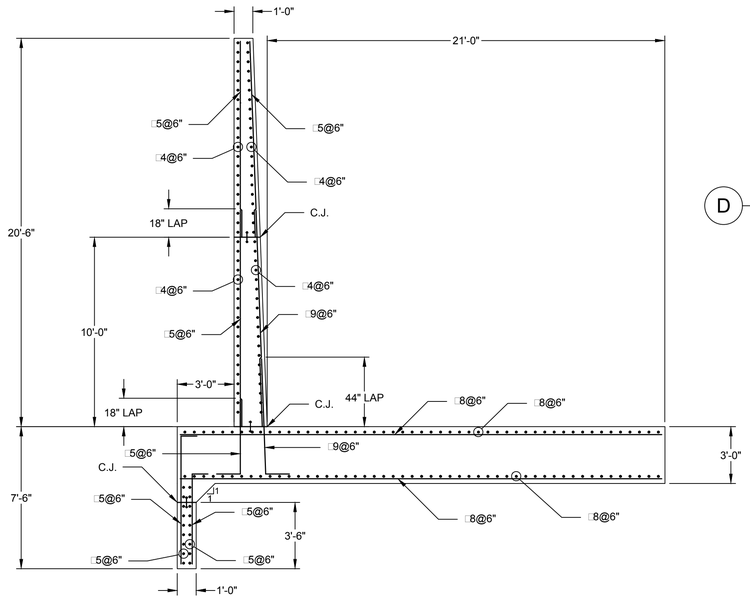
(TYPICAL)

FLOW



2 SEGMENT A2 SLAB PLAN

SCALE: 1/4"=1'0"



B SEGMENT A2 SECTION

SCALE: 1/4"=1'0"

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DESIGNED BY: JTD, JC
DRAWN BY: GMB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

REV. | DESCRIPTION | DATE

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT A2

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
25 OF 66

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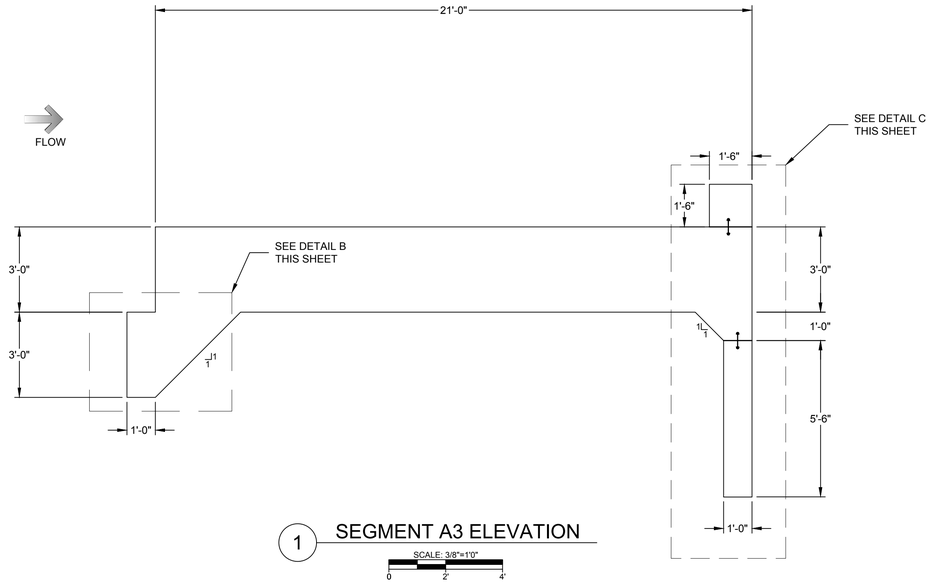
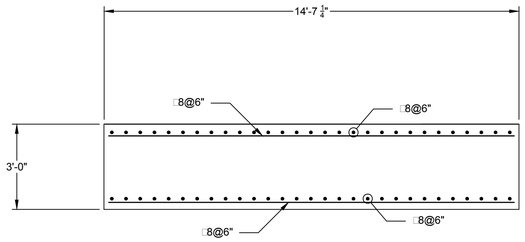


1 SEGMENT A3 ELEVATION

SCALE: 3/8"=1'0"

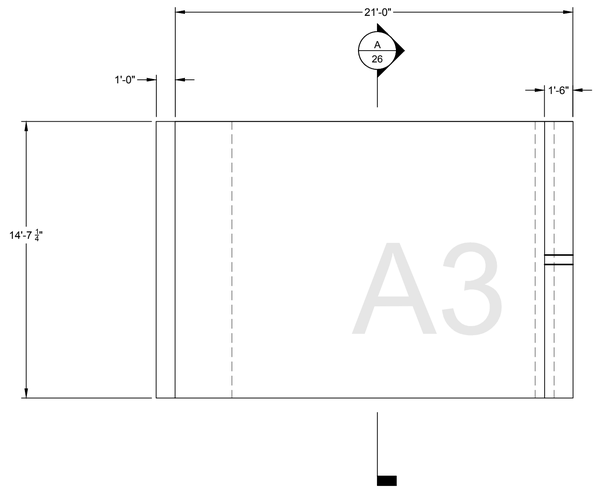
0 2' 4'



A SEGMENT A3 SECTION

SCALE: 3/8"=1'0"

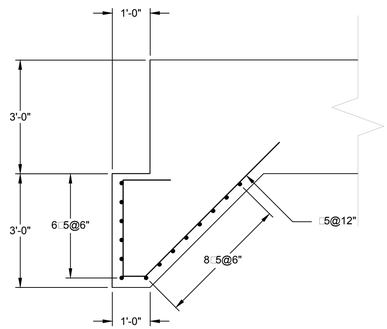
0 2' 4'



2 SEGMENT A3 SLAB PLAN

SCALE: 1/4"=1'0"

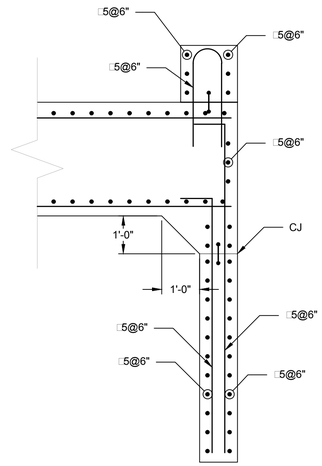
0 4' 8'



B CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'



C KEY WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

NOTE: SEGMENT A3 □ A4 SIMILAR

DATE	DESCRIPTION	REV

DESIGNED BY: JTD, JC
DRAWN BY: DHB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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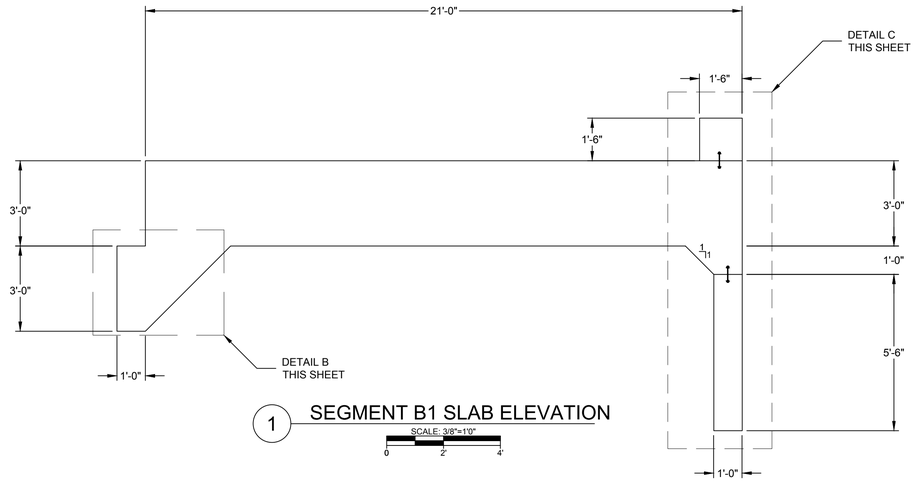
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SLAB DETAILS SEGMENT A3 □ A4

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 26 OF 66

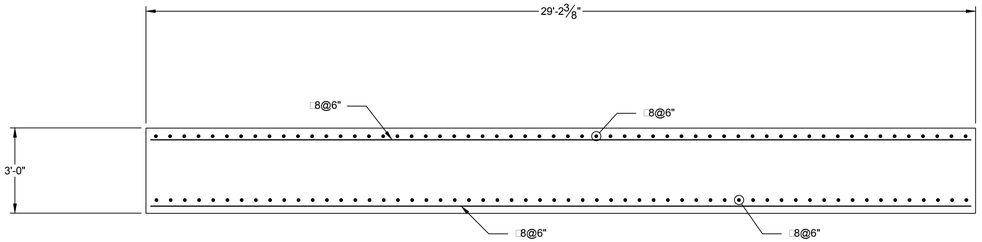
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



1 SEGMENT B1 SLAB ELEVATION

SCALE: 3/8"=1'0"

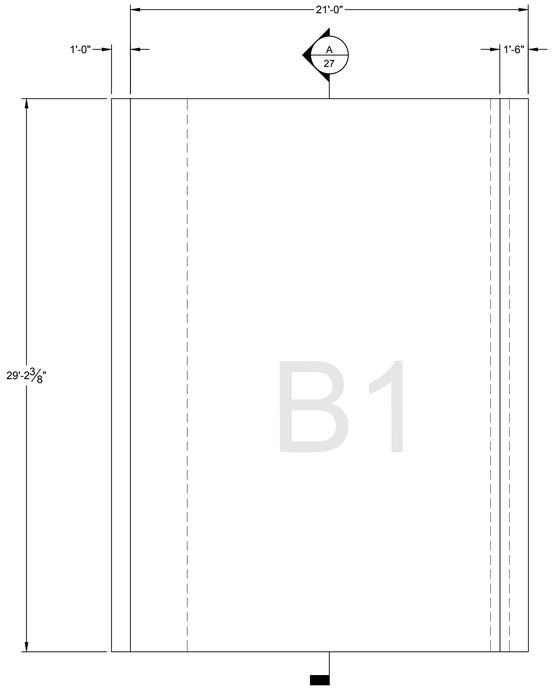
0 2' 4'



A SEGMENT B1 SECTION

SCALE: 3/8"=1'0"

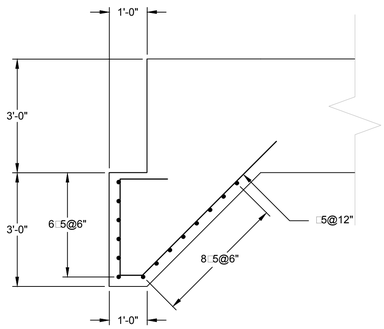
0 2' 4'



2 SEGMENT B1 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

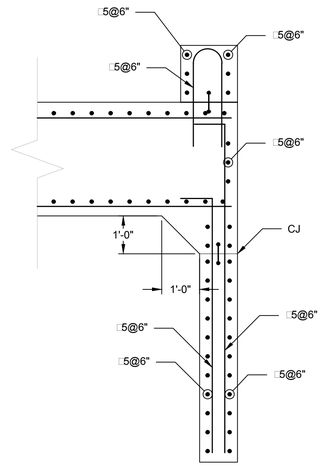


B CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)



C KEY WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)

NOTE: SEGMENT B1 □ B2 SIMILAR

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GMB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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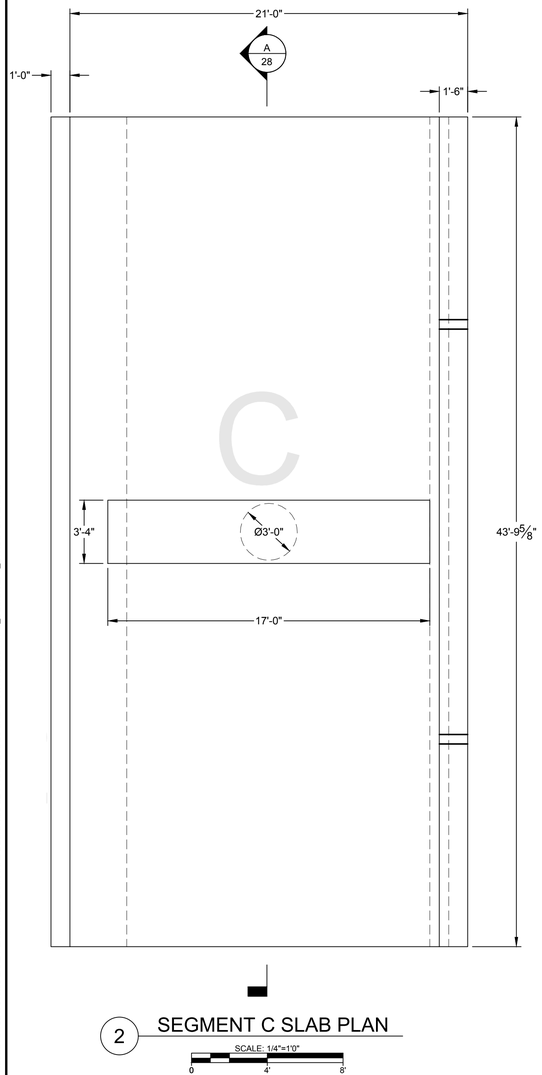
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SLAB DETAILS SEGMENT B1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
27 OF 66

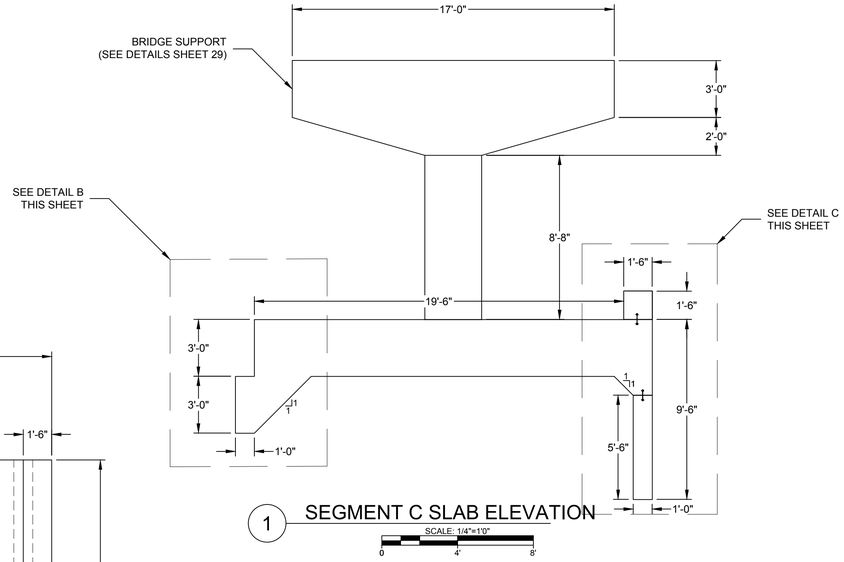
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



2 SEGMENT C SLAB PLAN

SCALE: 1/4"=1'0"

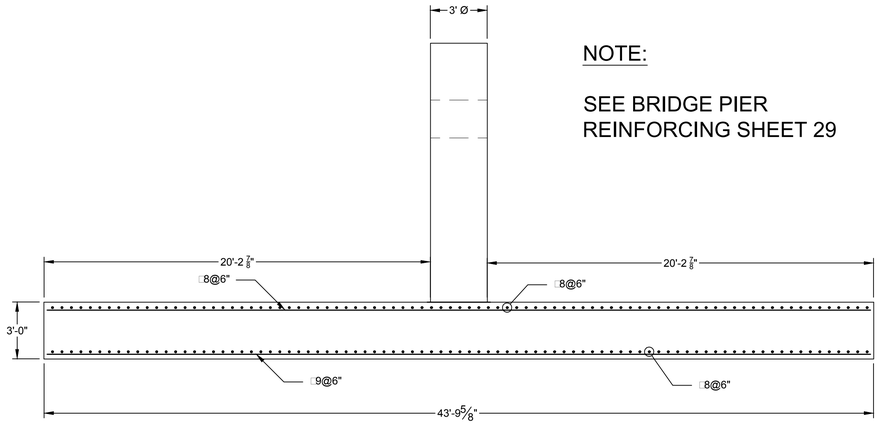
0 4' 8'



1 SEGMENT C SLAB ELEVATION

SCALE: 1/4"=1'0"

0 4' 8'



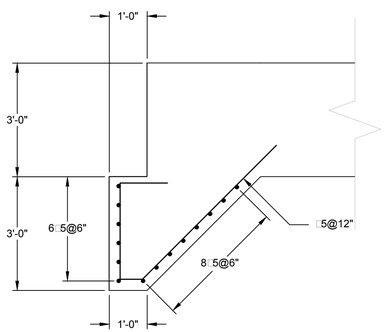
A SEGMENT C SECTION

SCALE: 1/4"=1'0"

0 4' 8'

NOTE:

SEE BRIDGE PIER
REINFORCING SHEET 29

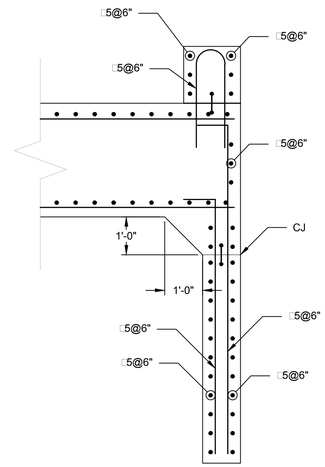


B CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)



C KEY WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)

DESIGNED BY: JTD, JC	DRAWN BY: GHB, JSR	CHECKED BY: RPB, JRC	REV.

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

REGISTERED GEORGIA PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

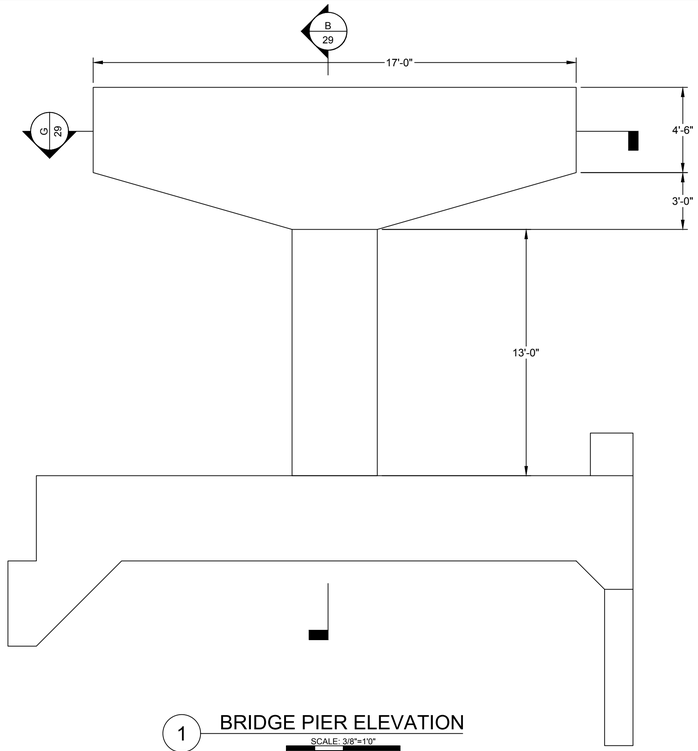
SLAB DETAILS SEGMENT C

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
28 OF 66

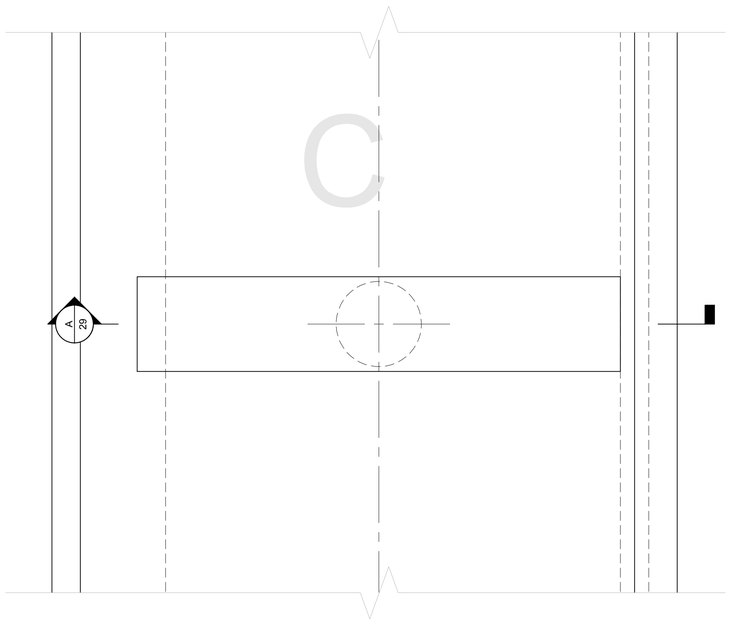
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



1 BRIDGE PIER ELEVATION

SCALE: 3/8"=1'0"

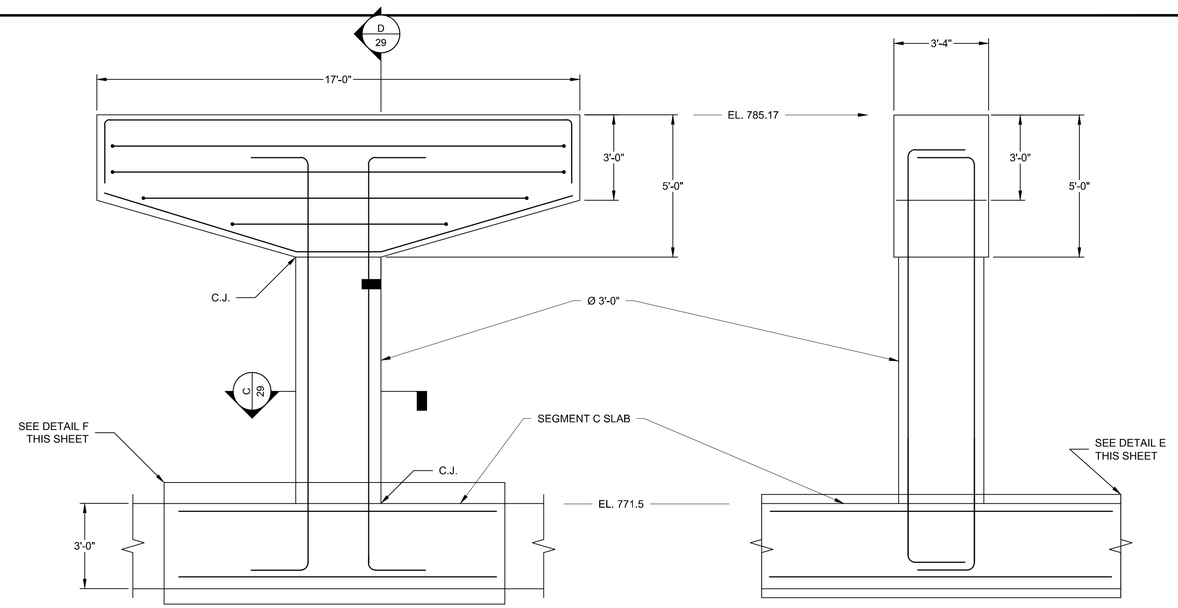
0 2' 4'



2 BRIDGE PIER PLAN

SCALE: 3/8"=1'0"

0 2' 4'



A BRIDGE PIER SECTION

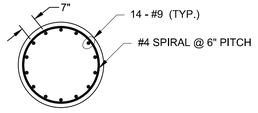
SCALE: 3/8"=1'0"

0 2' 4'

B BRIDGE PIER SECTION

SCALE: 3/8"=1'0"

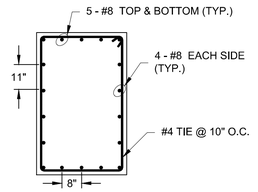
0 2' 4'



C SECTION

SCALE: 3/8"=1'0"

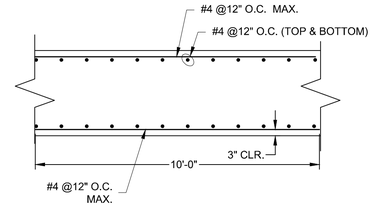
0 2' 4'



D SECTION

SCALE: 3/8"=1'0"

0 2' 4'



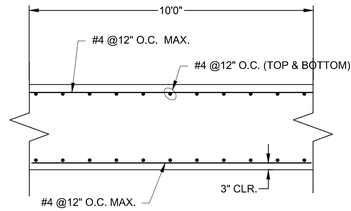
E DETAIL

SCALE: 3/8"=1'0"

0 2' 4'

NOTE: DETAIL E

PROVIDE ADDITIONAL □4 @ 12" O.C. EACH FACE, EACH WAY IN A 10 FOOT BY 10 FOOT GRID CENTERED AROUND THE BRIDGE PIER.



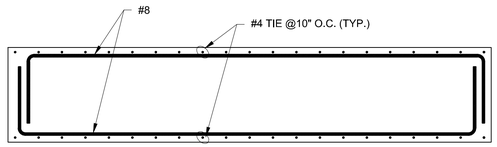
F DETAIL

SCALE: 3/8"=1'0"

0 2' 4'

NOTE: DETAIL F

PROVIDE ADDITIONAL □4 @ 12" O.C. EACH FACE, EACH WAY IN A 10 FOOT BY 10 FOOT GRID CENTERED AROUND THE BRIDGE PIER.



G SECTION

SCALE: 3/8"=1'0"

0 2' 4'

REV	DESCRIPTION	DATE

DESIGNED BY: JTD, JC

DRAWN BY: GWB, JSR

CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 19885

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19885 RANDALL P. BASS

Schnabel ENGINEERING

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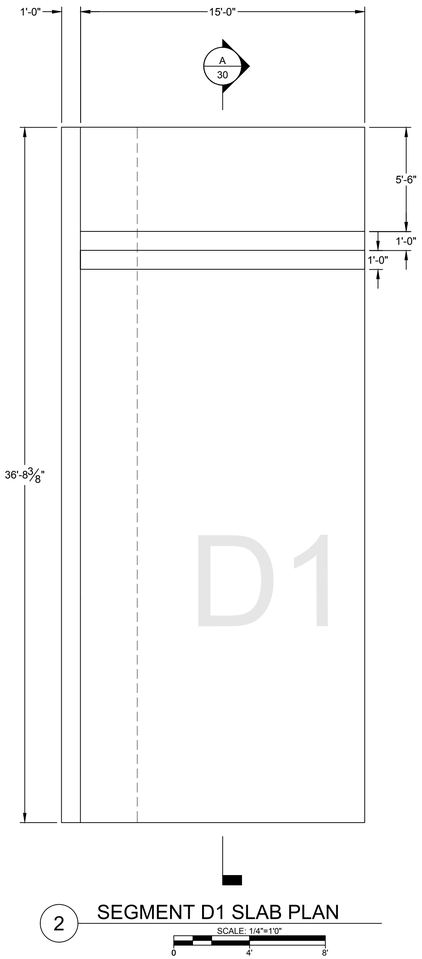
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

BRIDGE PIER DETAILS SEGMENT C

PROJECT: 16C17043.00

DATE: 07/10/2017

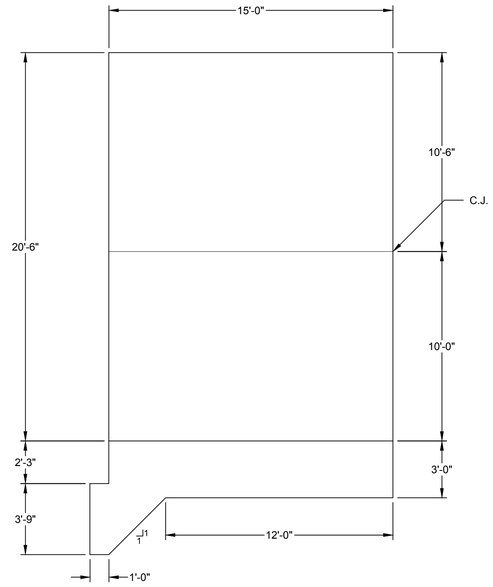
SHEET
29 OF 66



2 SEGMENT D1 SLAB PLAN

SCALE: 1/4"=1'0"

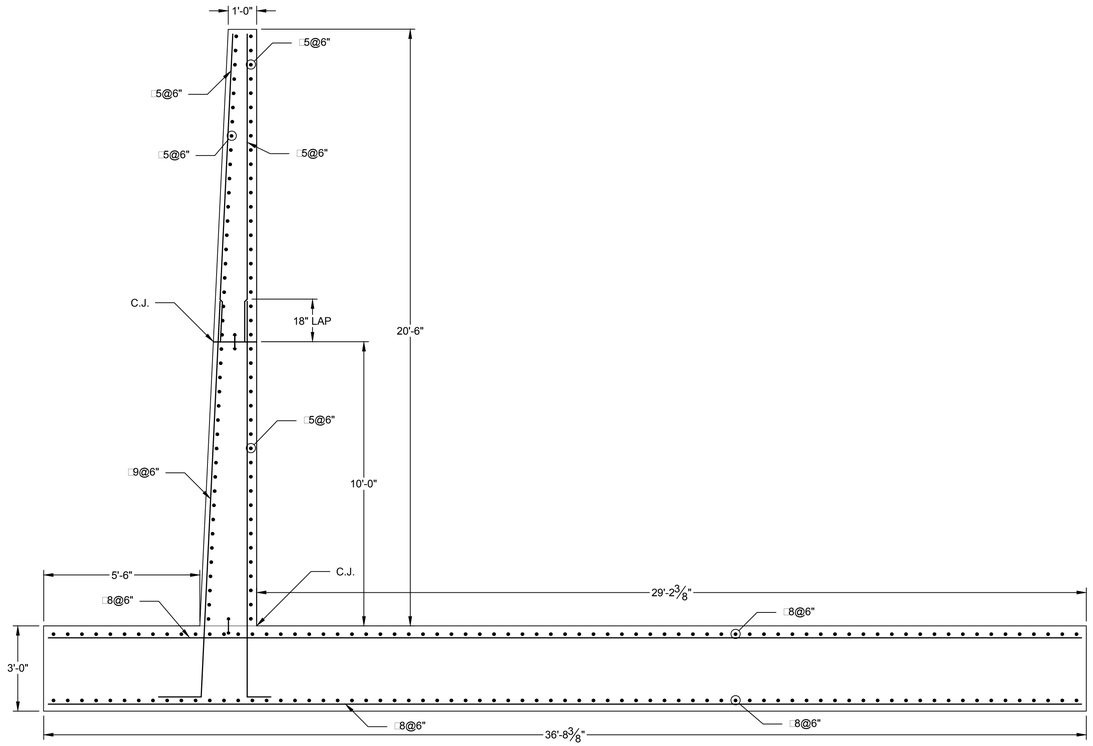
0 4' 8'



1 SEGMENT D1 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"

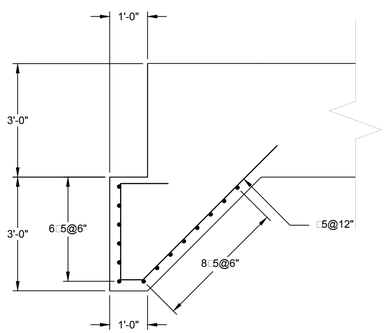
0 4' 8'



A SEGMENT D1 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



B CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)

NOTE: SEGMENT D1 □ D2 SIMILAR

DESIGNED BY: JTD, JC

DRAWN BY: CHB, JSR

CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

REV. | DESCRIPTION | DATE

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING

6445 Shiloh Road, Suite A / Alpharetta, GA 30005 / Phone: 770-781-8008 / Fax: 770-781-8003 / schnabel-eng.com

CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

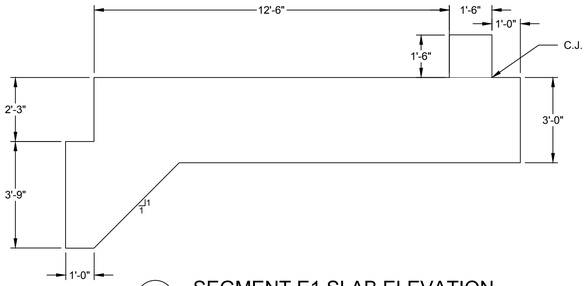
WALL AND SLAB DETAILS SEGMENT D1

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET 30 OF 66

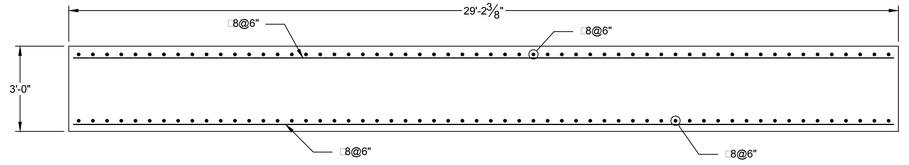
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



1 SEGMENT E1 SLAB ELEVATION

SCALE: 3/8"=1'0"

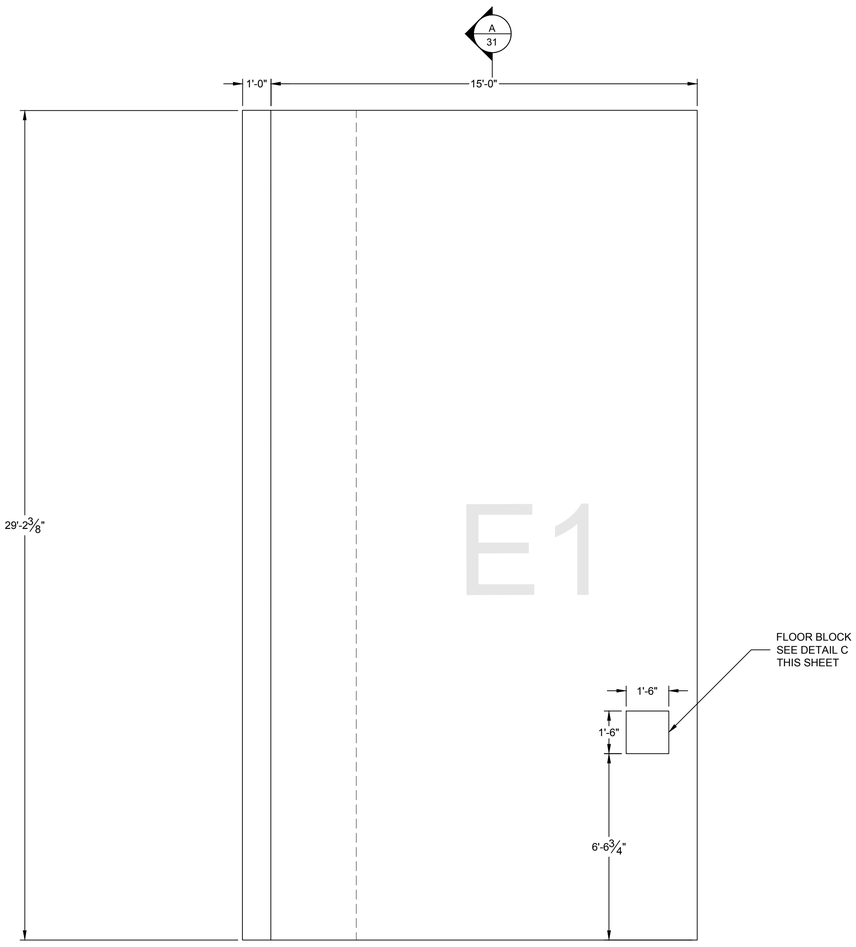
0 2' 4'



A SEGMENT E1 SECTION

SCALE: 3/8"=1'0"

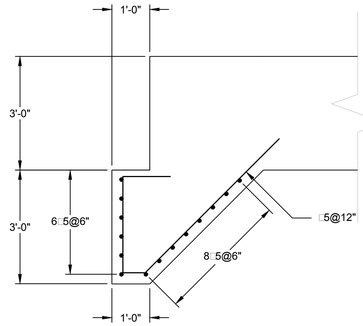
0 2' 4'



2 SEGMENT E1 SLAB PLAN

SCALE: 3/8"=1'0"

0 2' 4'

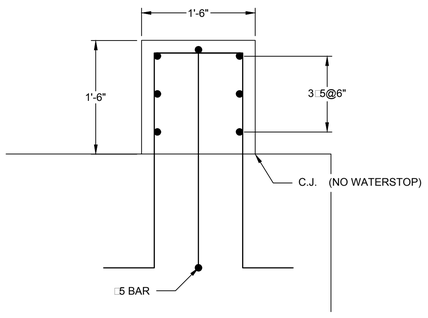


B CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

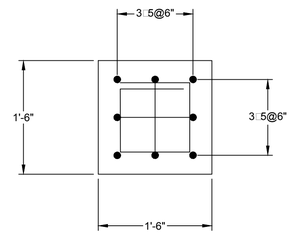
(TYPICAL)



C FLOOR BLOCK ELEVATION

SCALE: 1"=1'0"

0 1' 2'



D FLOOR BLOCK PLAN

SCALE: 1"=1'0"

0 1' 2'

NOTE: SEGMENT E1 ☐ E2 SIMILAR

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GNB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING

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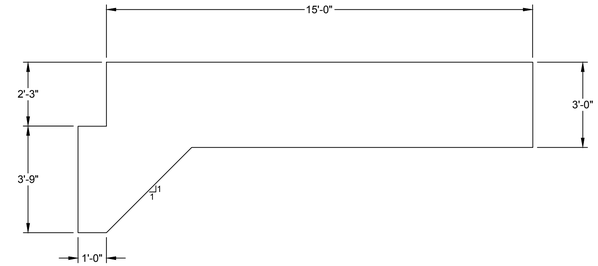
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT E1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 31 OF 66

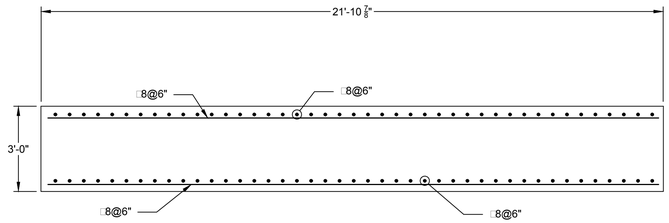
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\05-CAD\DRAWINGS\05-FINAL_DESIGN.LPT_STRUCTURAL.DWG



1 SEGMENT F1 SLAB ELEVATION

SCALE: 3/8"=1'0"

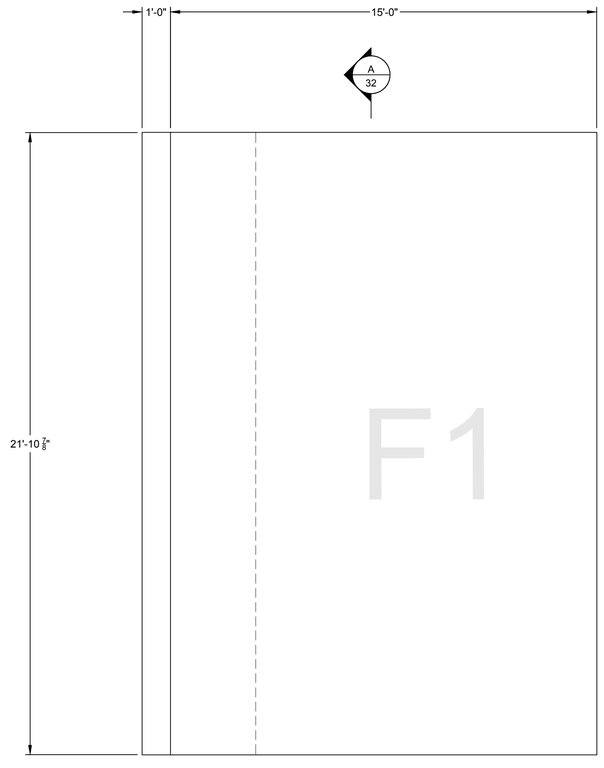
0 2' 4'



A SEGMENT F1 SECTION

SCALE: 3/8"=1'0"

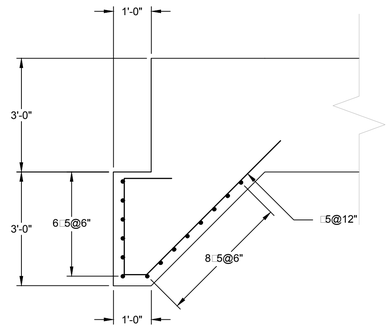
0 2' 4'



1 SEGMENT F1 SLAB PLAN

SCALE: 3/8"=1'0"

0 2' 4'



B CUTOFF WALL DETAIL

SCALE: 1/2"=1'0"

0 2' 4'

(TYPICAL)

NOTE: SEGMENT F1 ☐ F2 SIMILAR

DATE	DESCRIPTION	REV.

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
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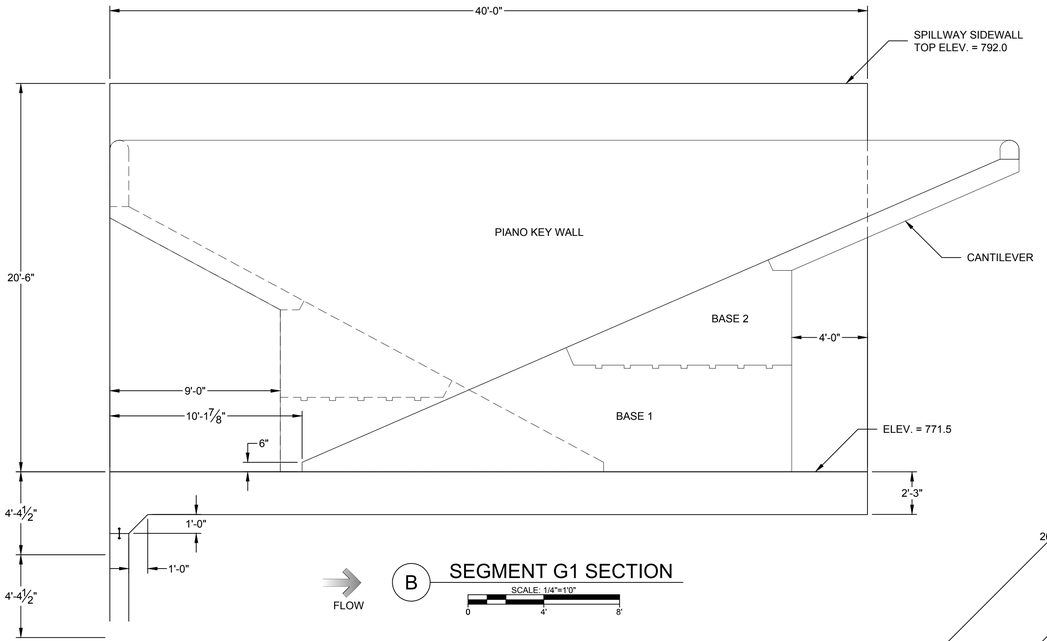
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT F1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 32 OF 66



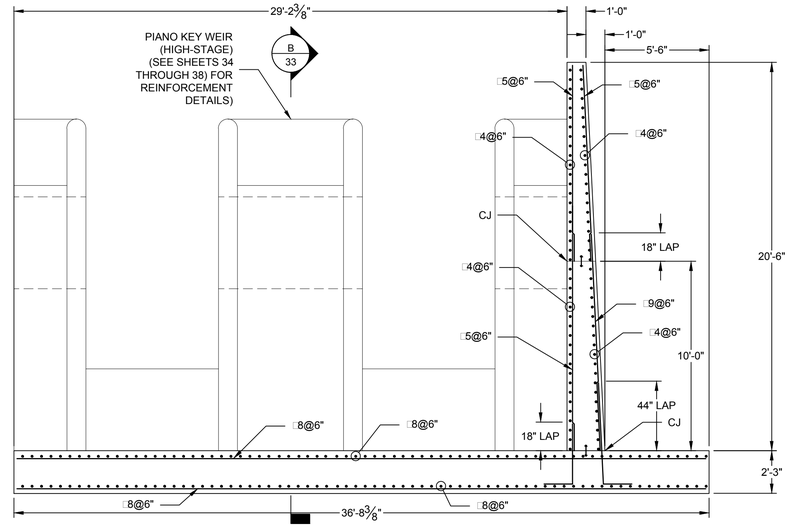
FLOW

B SEGMENT G1 SECTION

SCALE: 1/4"=1'0"

0 4' 8'

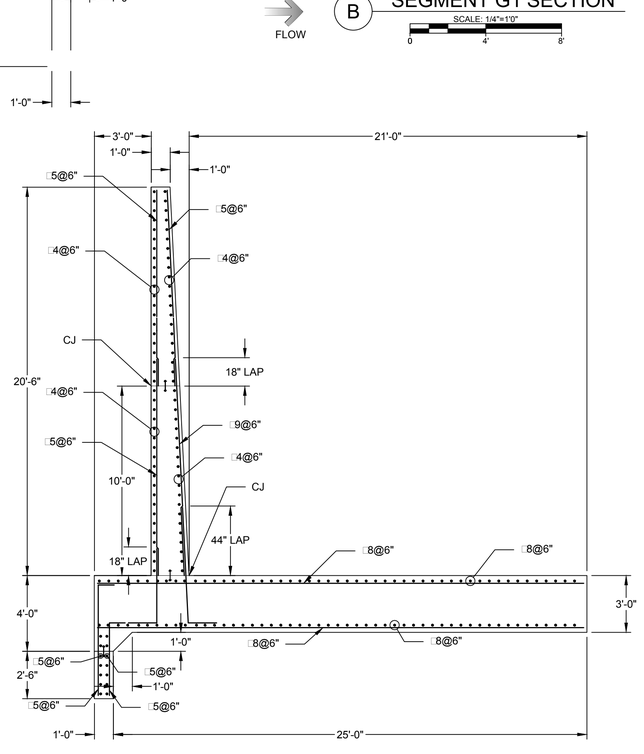
NOTE: SEE SHEETS 34 AND 37 FOR REINFORCING DETAILS OF PIANO KEY CONNECTION TO SLAB.



A SEGMENT G1 SECTION

SCALE: 1/4"=1'0"

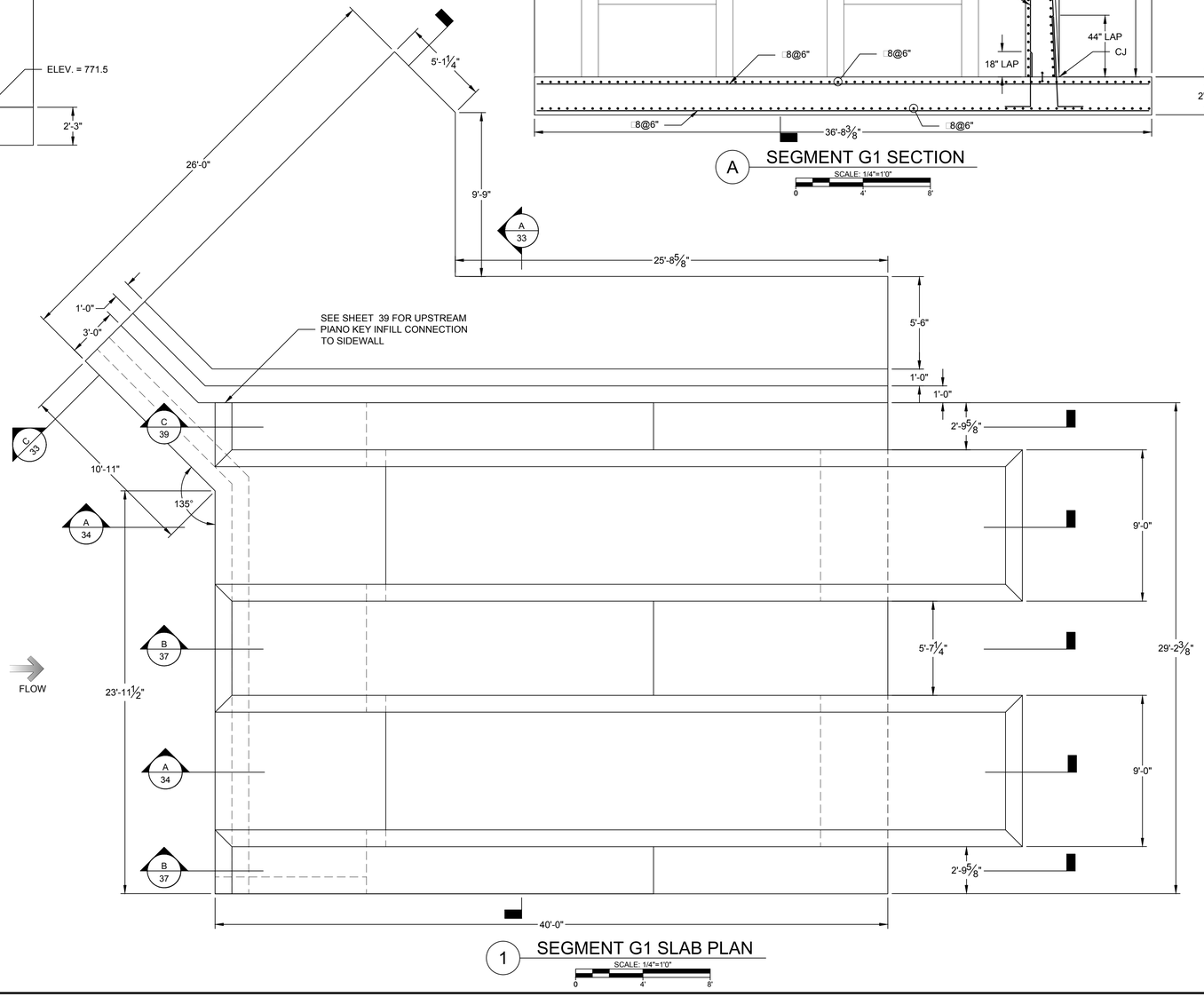
0 4' 8'



C SEGMENT G1 WINGWALL SECTION

SCALE: 1/4"=1'0"

0 4' 8'



FLOW

1 SEGMENT G1 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

REV	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19685

GEORGIA REGISTERED No. 19685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING

6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
Phone: 770-781-8008 / Fax: 770-781-8003 /
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

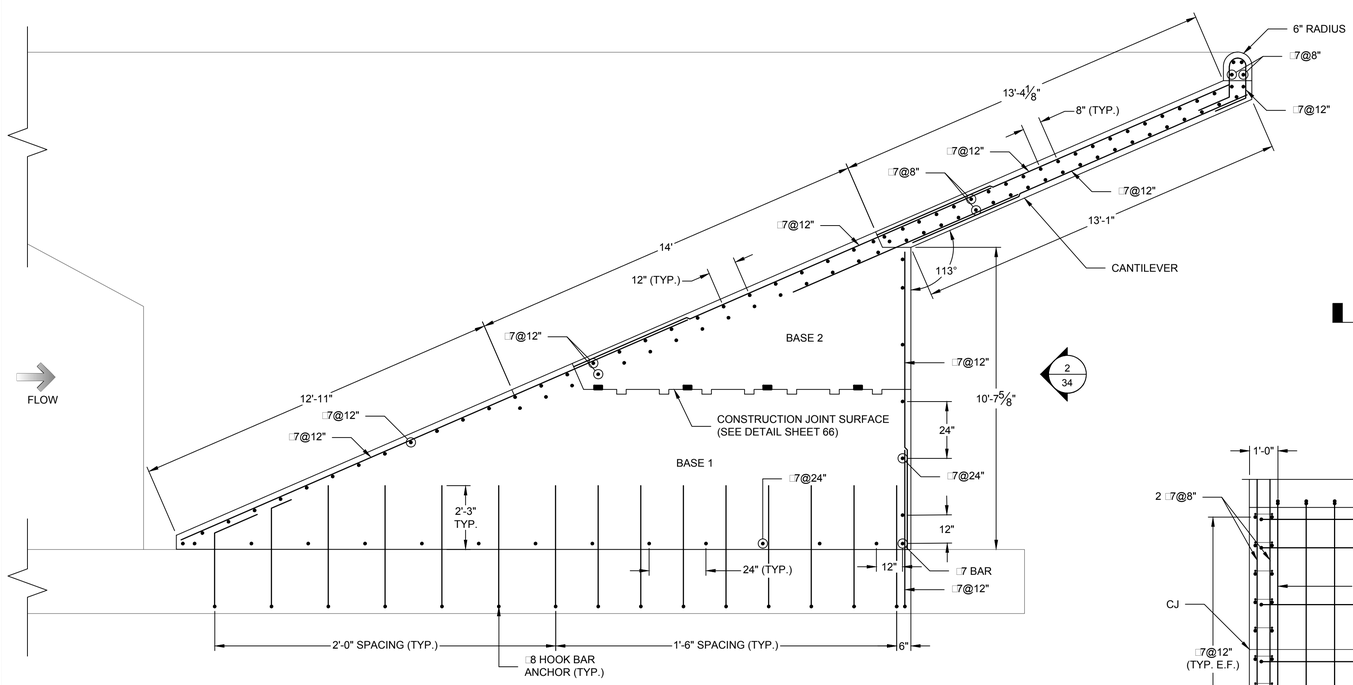
WALL AND SLAB REINFORCEMENT DETAILS SEGMENT G1

PROJECT: 16C17043.00

DATE: 07/10/2017

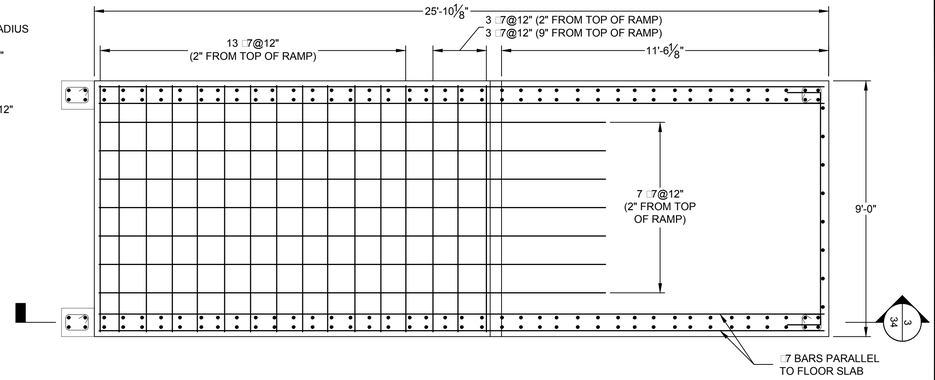
SHEET
33 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



A SEGMENT G1 DOWNSTREAM RAMP SECTION

SCALE: 3/8"=1'0"

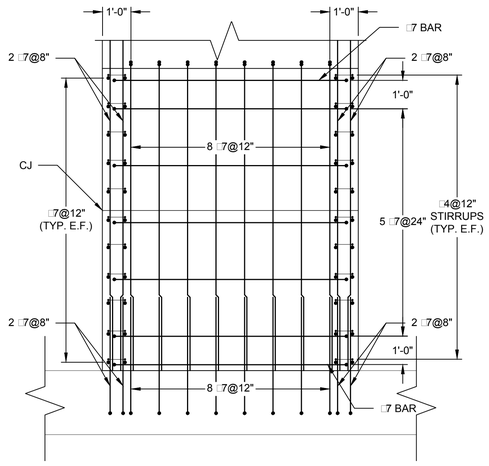


FLOW

1 SEGMENT G1 DOWNSTREAM RAMP BASE 1 PLAN

SCALE: 3/8"=1'0"

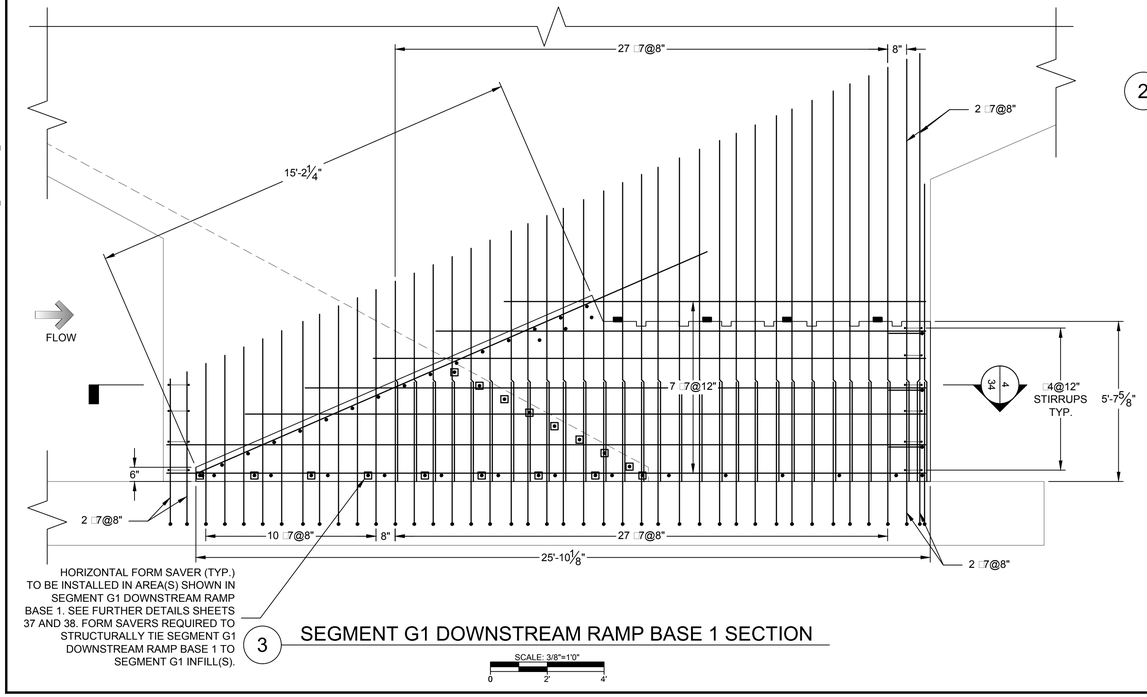
NOTE: FORM SAVERS FOR CONNECTION TO UPSTREAM RAMP NOT SHOWN FOR CLARITY.



2 SEGMENT G1 DOWNSTREAM RAMP ELEVATION

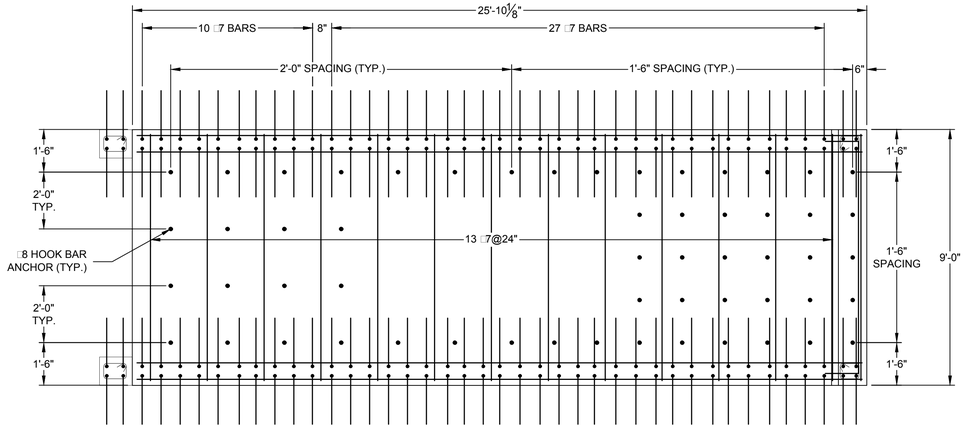
SCALE: 3/8"=1'0"

NOTE: SEGMENT G1 □ G2 SIMILAR BUT OPPOSITE



3 SEGMENT G1 DOWNSTREAM RAMP BASE 1 SECTION

SCALE: 3/8"=1'0"



FLOW

4 SEGMENT G1 DOWNSTREAM RAMP BASE 1 SECTION

SCALE: 3/8"=1'0"

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GMB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

Schnabel ENGINEERING
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Phone: 770-781-8008 / Fax: 770-781-8003 /
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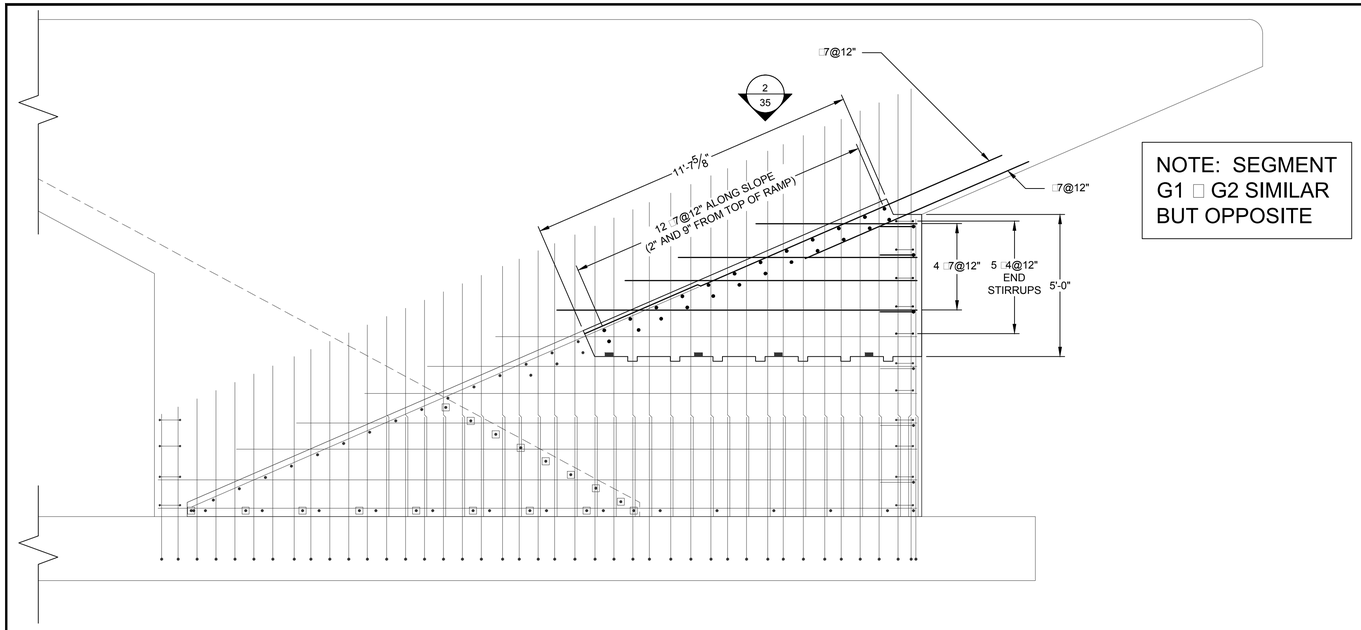
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT G1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
34 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



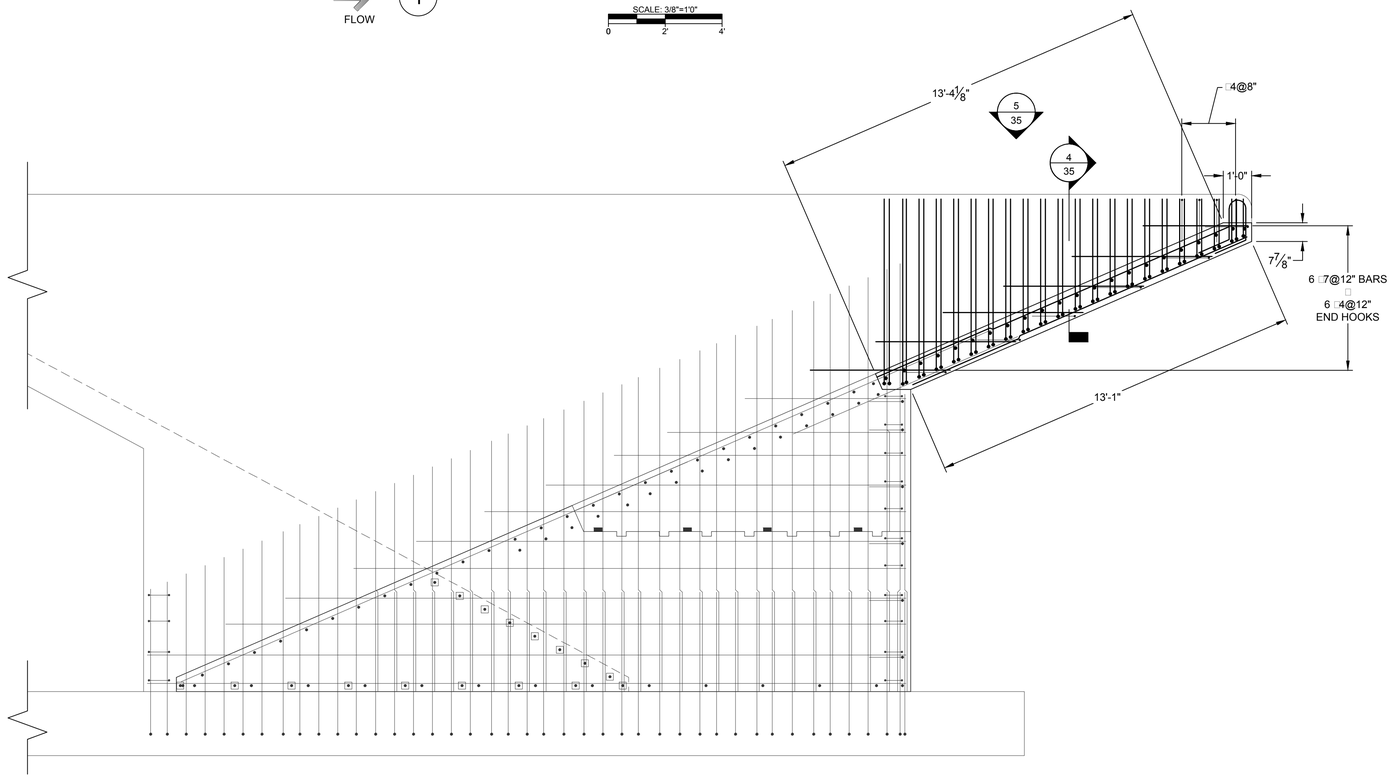
NOTE: SEGMENT G1 □ G2 SIMILAR BUT OPPOSITE

FLOW

1 SEGMENT G1 DOWNSTREAM RAMP BASE 2

SCALE: 3/8"=1'0"

0 2' 4'

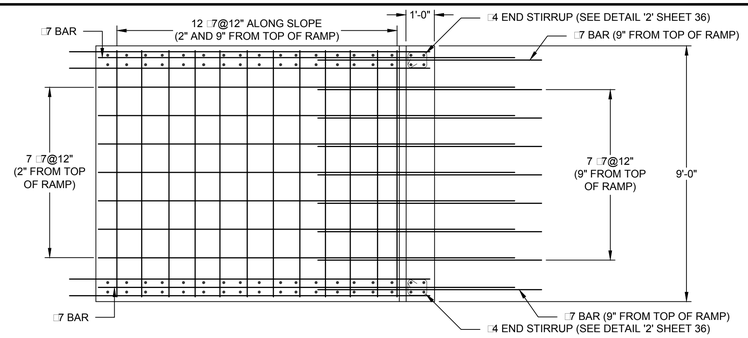


FLOW

3 SEGMENT G1 DOWNSTREAM RAMP CANTILEVER

SCALE: 3/8"=1'0"

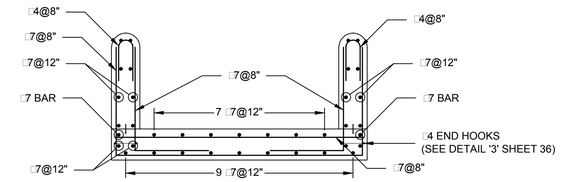
0 2' 4'



2 SEGMENT G1 DOWNSTREAM RAMP BASE 2 PLAN

SCALE: 3/8"=1'0"

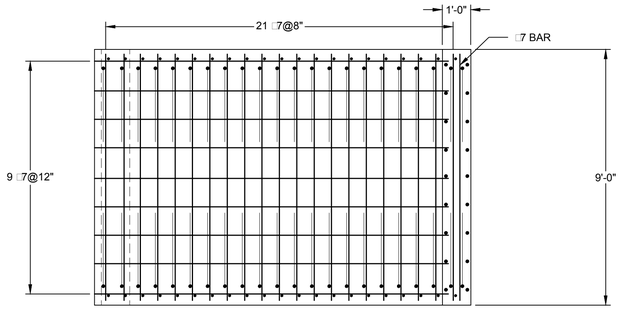
0 2' 4'



4 SEGMENT G1 DOWNSTREAM RAMP CANTILEVER SECTION

SCALE: 3/8"=1'0"

0 2' 4'

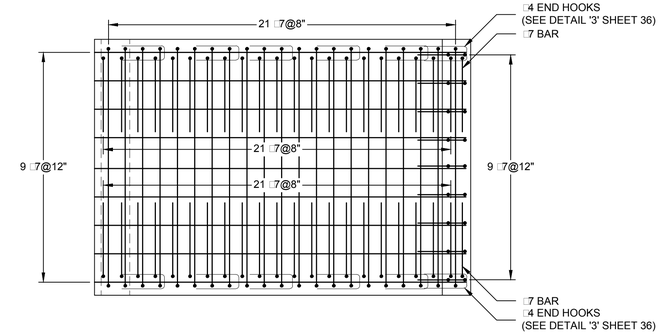


5 SEGMENT G1 DOWNSTREAM RAMP CANTILEVER PLAN

REINFORCEMENT 2" FROM TOP OF CANTILEVER SLAB

SCALE: 3/8"=1'0"

0 2' 4'



5 SEGMENT G1 DOWNSTREAM RAMP CANTILEVER PLAN

REINFORCEMENT 2" FROM BOTTOM OF CANTILEVER SLAB

SCALE: 3/8"=1'0"

0 2' 4'

DATE	DESCRIPTION	REV

DESIGNED BY: JTD, JC
DRAWN BY: DHB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
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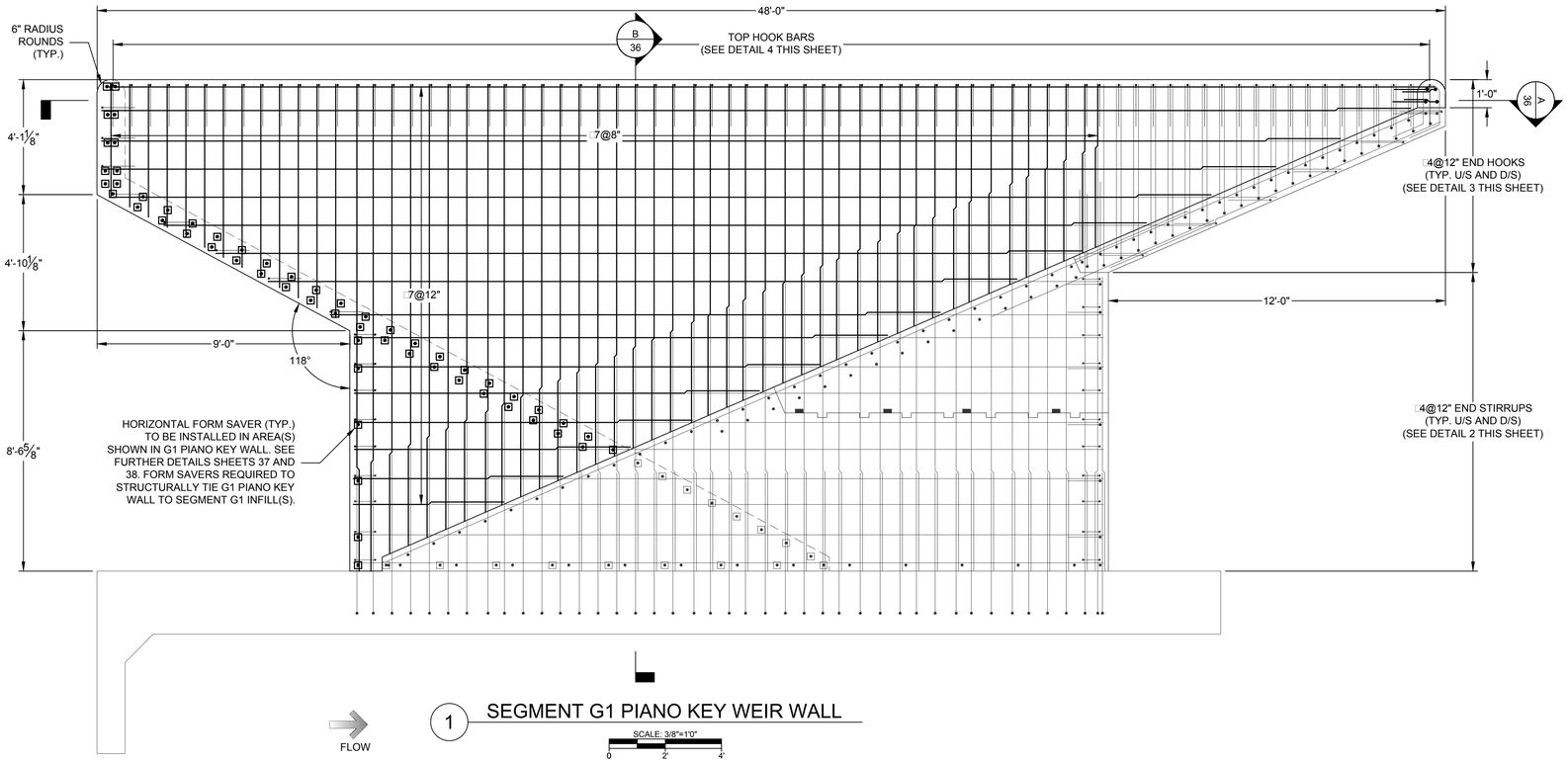
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT G1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
35 OF 66

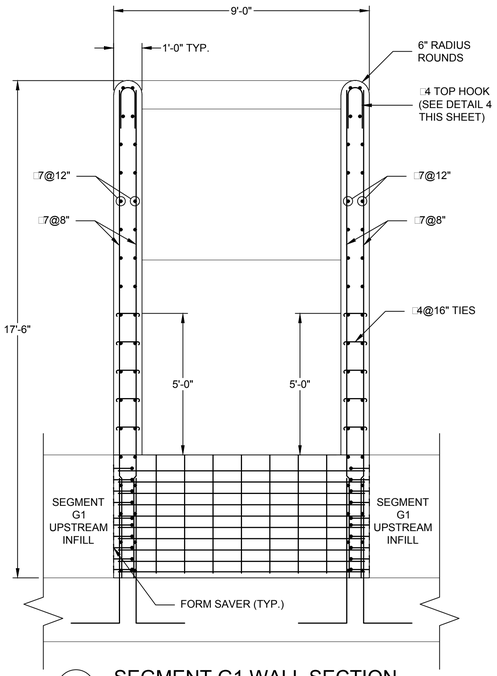
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



1 SEGMENT G1 PIANO KEY WEIR WALL

SCALE: 3/8"=1'0"

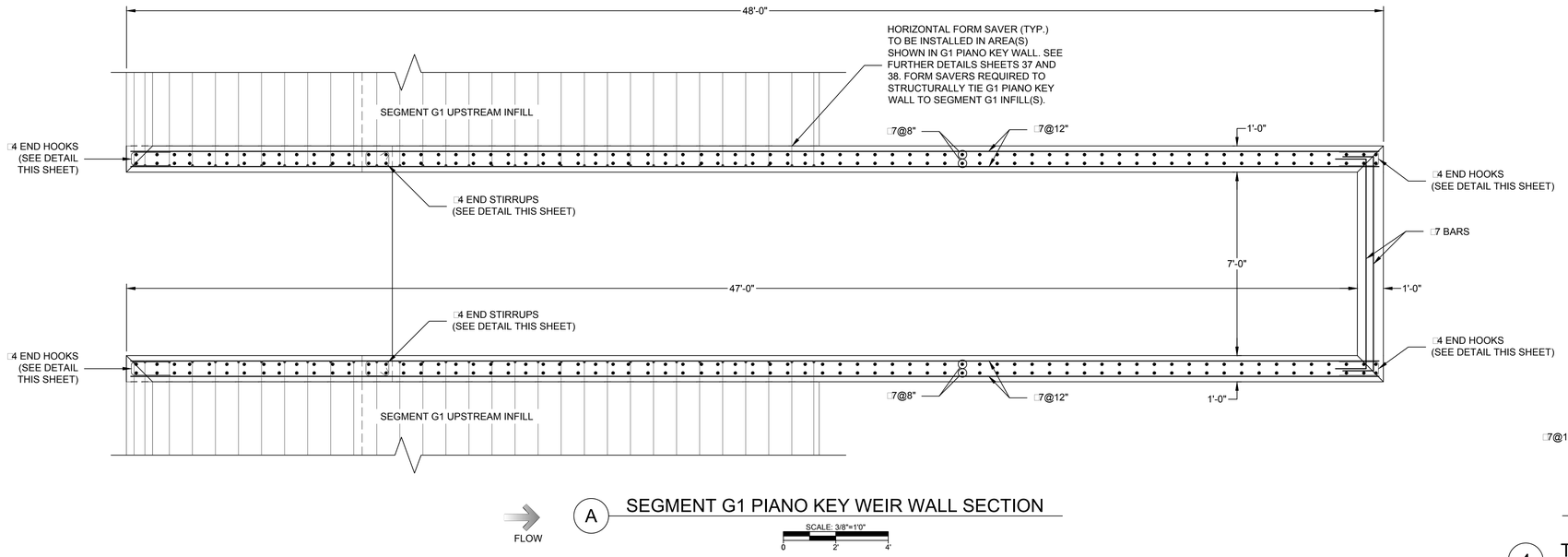
0 2' 4'



B SEGMENT G1 WALL SECTION

SCALE: 3/8"=1'0"

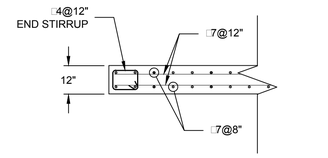
0 2' 4'



A SEGMENT G1 PIANO KEY WEIR WALL SECTION

SCALE: 3/8"=1'0"

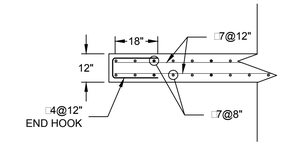
0 2' 4'



2 END STIRRUP DETAIL

SCALE: 3/8"=1'0"

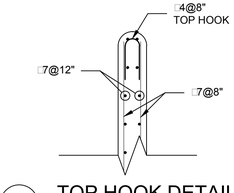
0 2' 4'



3 END HOOK DETAIL

SCALE: 3/8"=1'0"

0 2' 4'



4 TOP HOOK DETAIL

HIGH-STAGE AND MID-STAGE WEIR WALLS

SCALE: 3/8"=1'0"

0 2' 4'

NOTE: SEGMENT G1 ≠ G2 SIMILAR BUT OPPOSITE

DESIGNED BY: JTD, JC

DRAWN BY: GWB, JSR

CHECKED BY: REB, JFC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

REGISTERED GEORGIA PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

Schnabel ENGINEERING
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CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

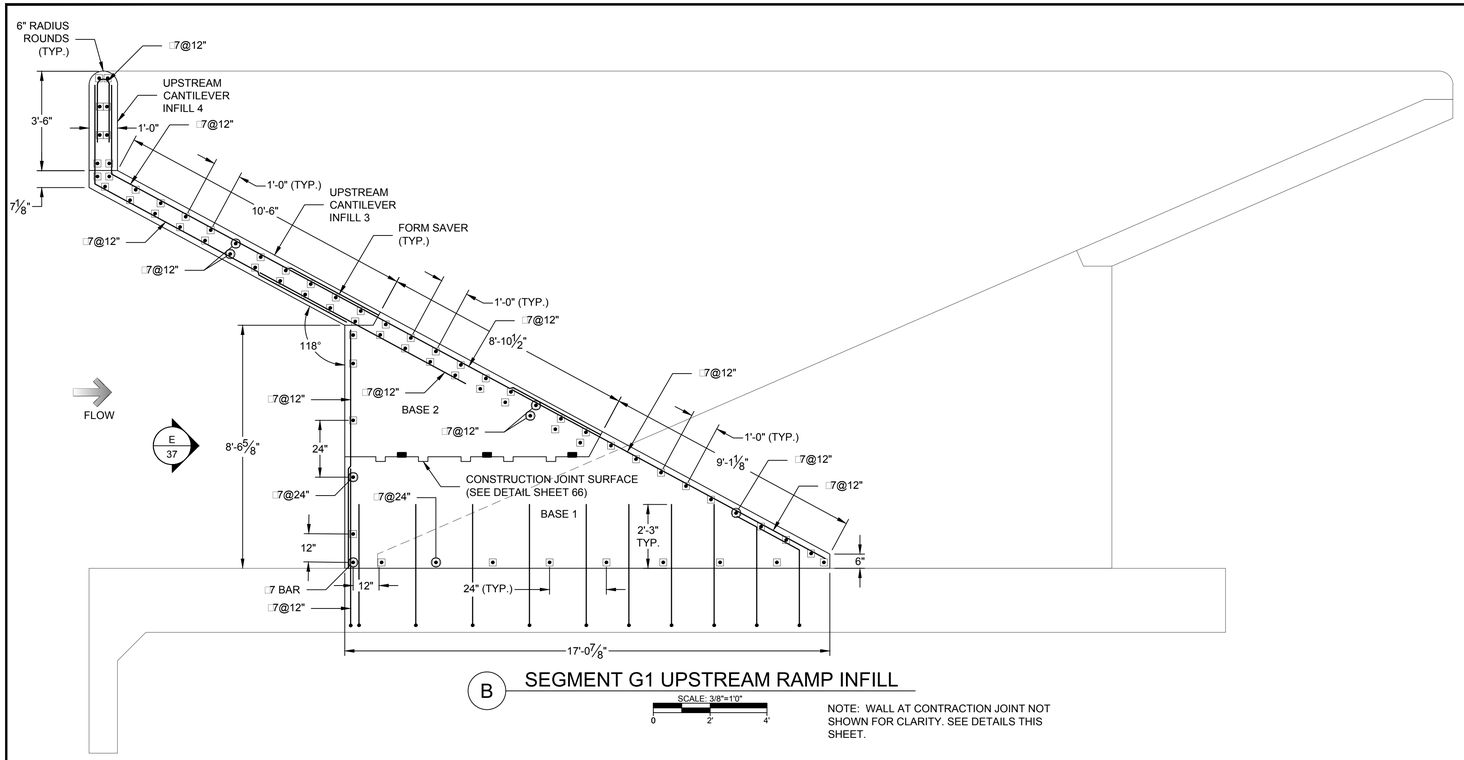
DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT G1

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET 36 OF 66

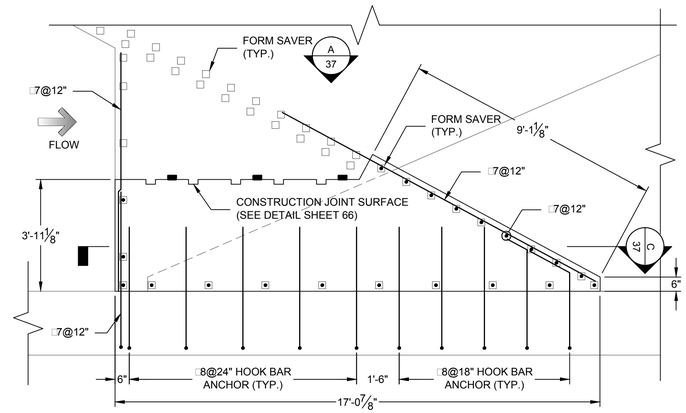
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



B SEGMENT G1 UPSTREAM RAMP INFILL

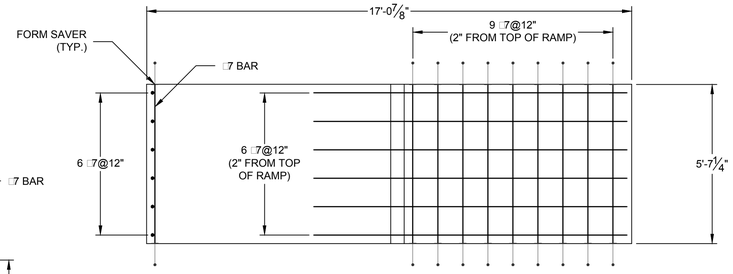
SCALE: 3/8"=1'0"

NOTE: WALL AT CONTRACTION JOINT NOT SHOWN FOR CLARITY. SEE DETAILS THIS SHEET.



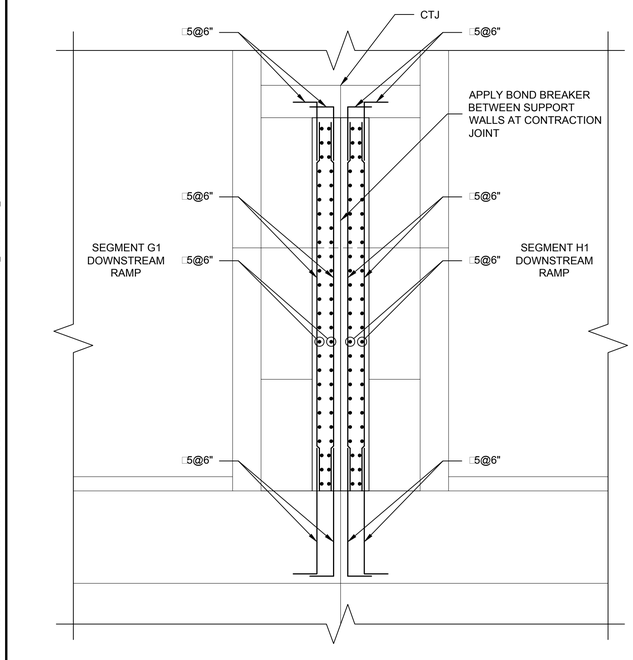
2 SEGMENT G1 INFILL 1

SCALE: 3/8"=1'0"



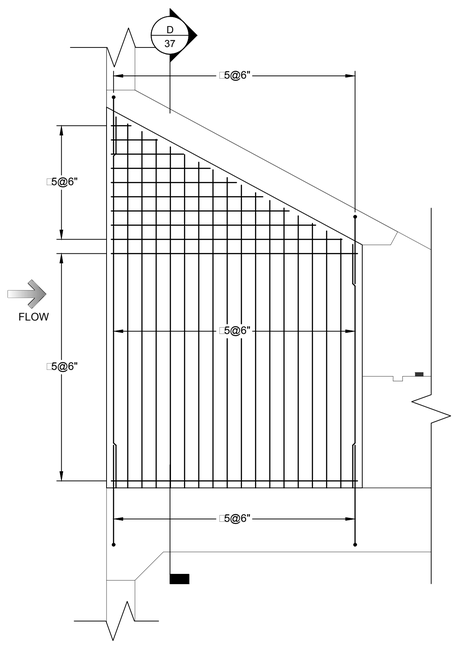
FLOW A SEGMENT G1 INFILL BASE 1 PLAN

SCALE: 3/8"=1'0"



D SEGMENT G1 SUPPORT WALL SECTION

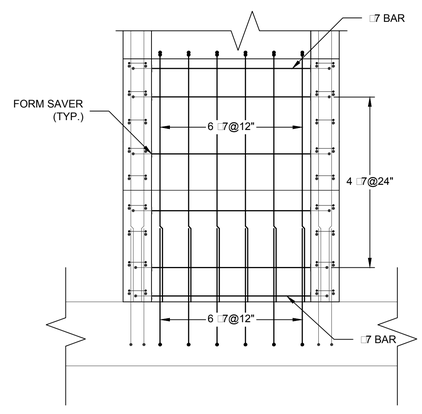
SCALE: 3/8"=1'0"



1 SEGMENT G1 SUPPORT WALL AT CONTRACTION JOINT

BETWEEN SEGMENTS G1 AND H1

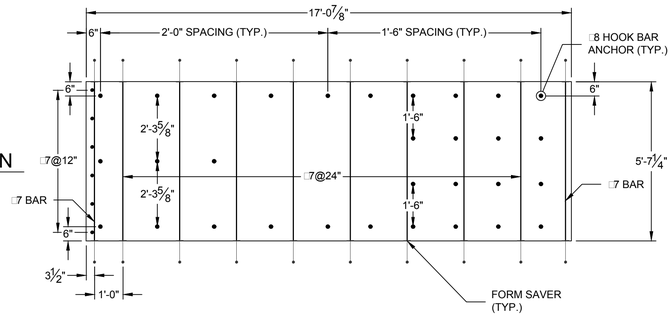
SCALE: 3/8"=1'0"



E SEGMENT G1 INFILL BASE ELEVATION

SCALE: 3/8"=1'0"

NOTE: FOR CONTRACTION JOINT BETWEEN PIANO KEY SEGMENTS G1 AND H1, PROVIDE 2-INCHES CLEARANCE FOR REINFORCEMENT EACH SIDE OF JOINT. (G2 AND H2 SIMILAR, BUT OPPOSITE)



FLOW C SEGMENT G1 INFILL BASE 1 SECTION

SCALE: 3/8"=1'0"

NOTE: SEGMENT G1 □ G2 SIMILAR BUT OPPOSITE

REV.	DESCRIPTION	DATE

DESIGNED BY: RPB, JRC
DRAWN BY: DWB, CBR
DESIGNED BY: JTD, JC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

REGISTERED GEORGIA No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING
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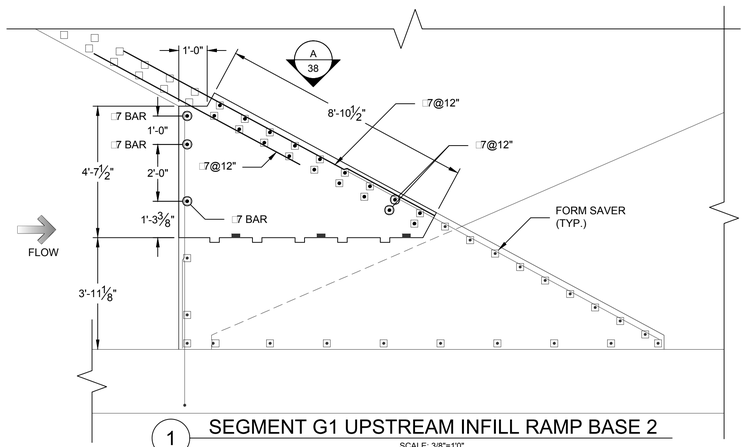
CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

UPSTREAM RAMP REINFORCEMENT DETAILS SEGMENT G1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 37 OF 66

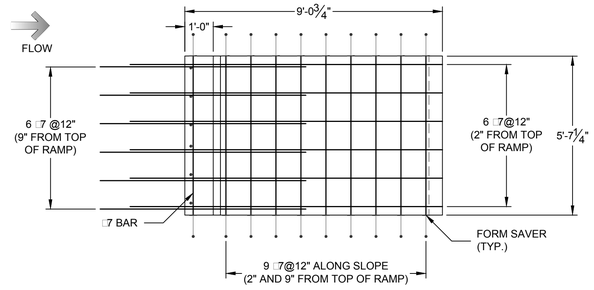
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



1 SEGMENT G1 UPSTREAM INFILL RAMP BASE 2

SCALE: 3/8"=1'0"

0 2' 4'

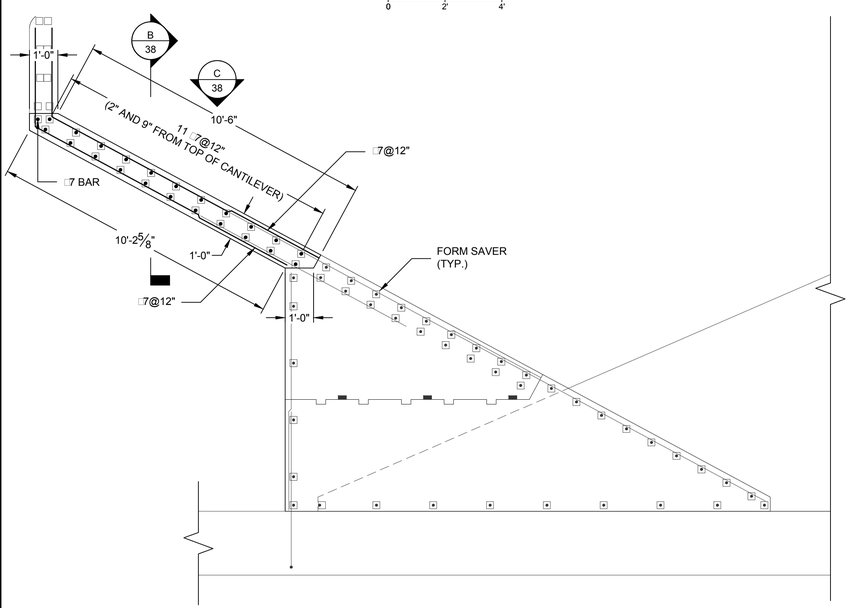


A SEGMENT G1 UPSTREAM INFILL RAMP BASE 2 PLAN

SCALE: 3/8"=1'0"

0 2' 4'

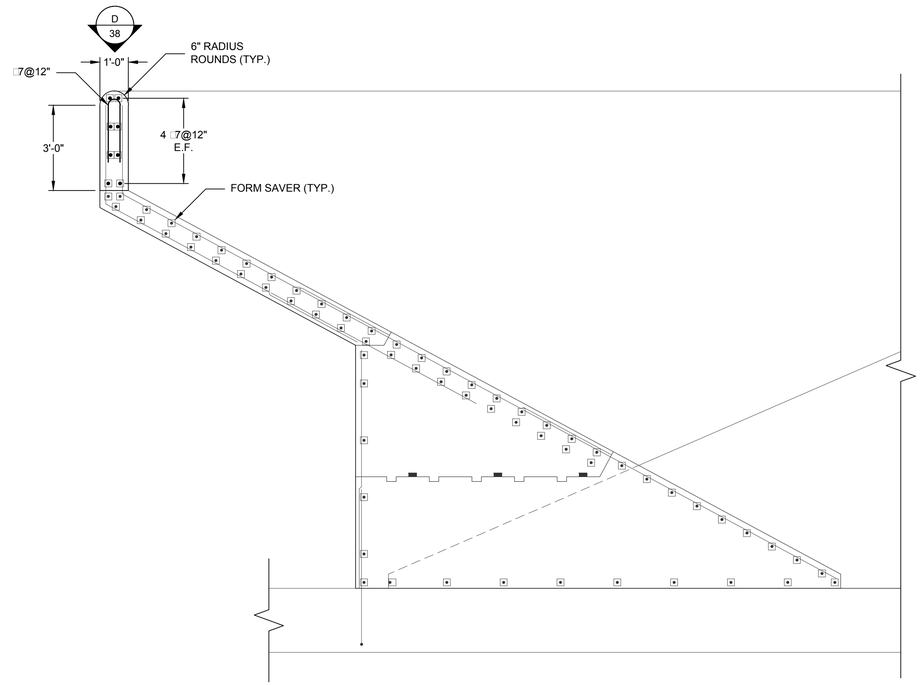
NOTE: FOR CONTRACTION JOINT BETWEEN PIANO KEY SEGMENTS G1 AND H1, PROVIDE 2-INCHES CLEARANCE FOR REINFORCEMENT EACH SIDE OF JOINT. (G2 AND H2 SIMILAR, BUT OPPOSITE)



2 SEGMENT G1 UPSTREAM RAMP CANTILEVER INFILL 3

SCALE: 3/8"=1'0"

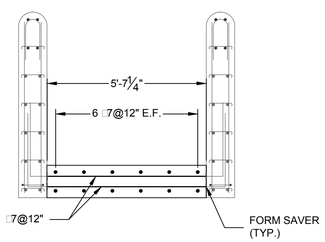
0 2' 4'



3 SEGMENT G1 UPSTREAM RAMP CANTILEVER INFILL 4

SCALE: 3/8"=1'0"

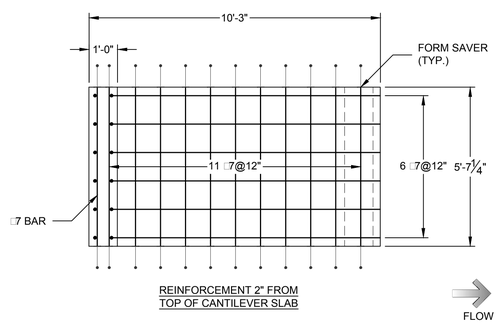
0 2' 4'



B SEGMENT G1 U/S INFILL 3 SECTION

SCALE: 3/8"=1'0"

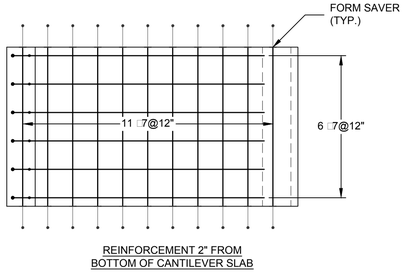
0 2' 4'

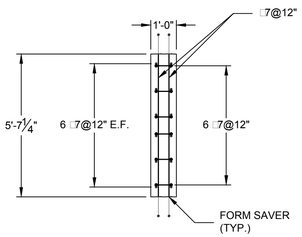


C SEGMENT G1 UPSTREAM RAMP CANTILEVER INFILL 3 PLAN

SCALE: 3/8"=1'0"

0 2' 4'





D SEGMENT G1 CANTILEVER INFILL 4 PLAN

SCALE: 3/8"=1'0"

0 2' 4'

NOTE: SEGMENT G1 □ G2 SIMILAR BUT OPPOSITE

DESIGNED BY: JTD, JC
DRAWN BY: DHB, CBR
CHECKED BY: RPB, JRC
DATE: 07/10/17
RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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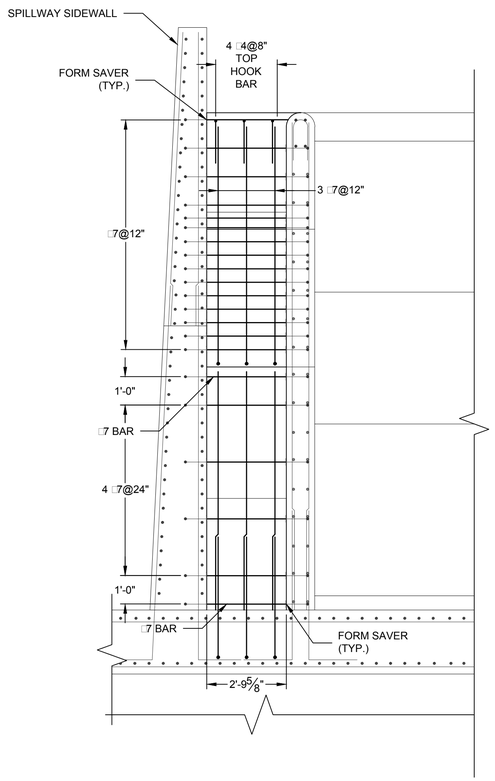
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

UPSTREAM RAMP REINFORCEMENT DETAILS SEGMENT G1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
38 OF 66

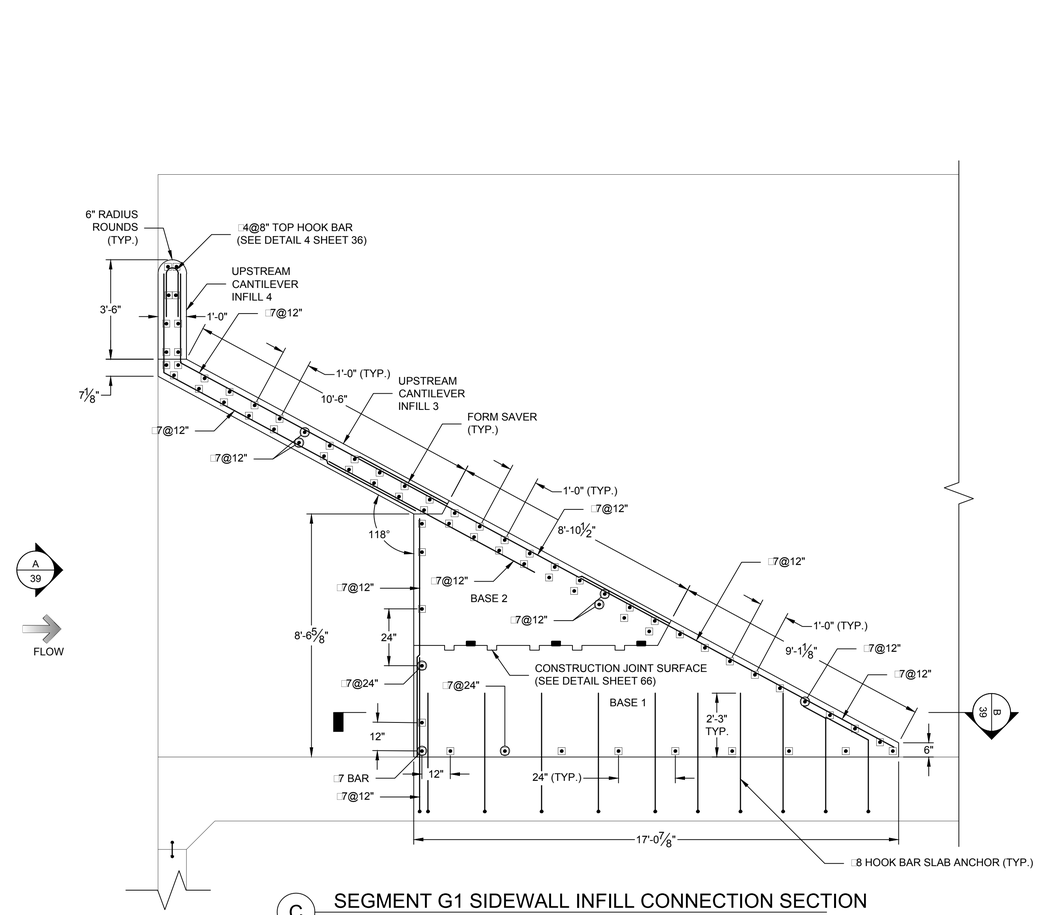
REV.	DESCRIPTION	DATE



A SEGMENT G1 SIDEWALL INFILL CONNECTION U/S ELEVATION

SCALE: 3/8"=1'0"

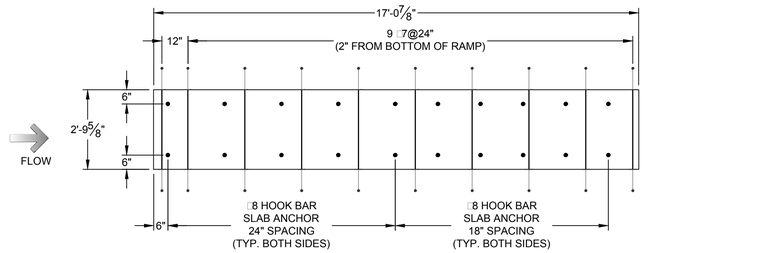
0 2' 4'



C SEGMENT G1 SIDEWALL INFILL CONNECTION SECTION

SCALE: 3/8"=1'0"

0 2' 4'



B SEGMENT G1 SIDEWALL INFILL SLAB REINFORCEMENT

SCALE: 3/8"=1'0"

0 2' 4'

NOTE: SEGMENT G1 □ G2 SIMILAR BUT OPPOSITE

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: DWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10585

GEORGIA REGISTERED No. 10585 PROFESSIONAL ENGINEER RANDALL P. BASS

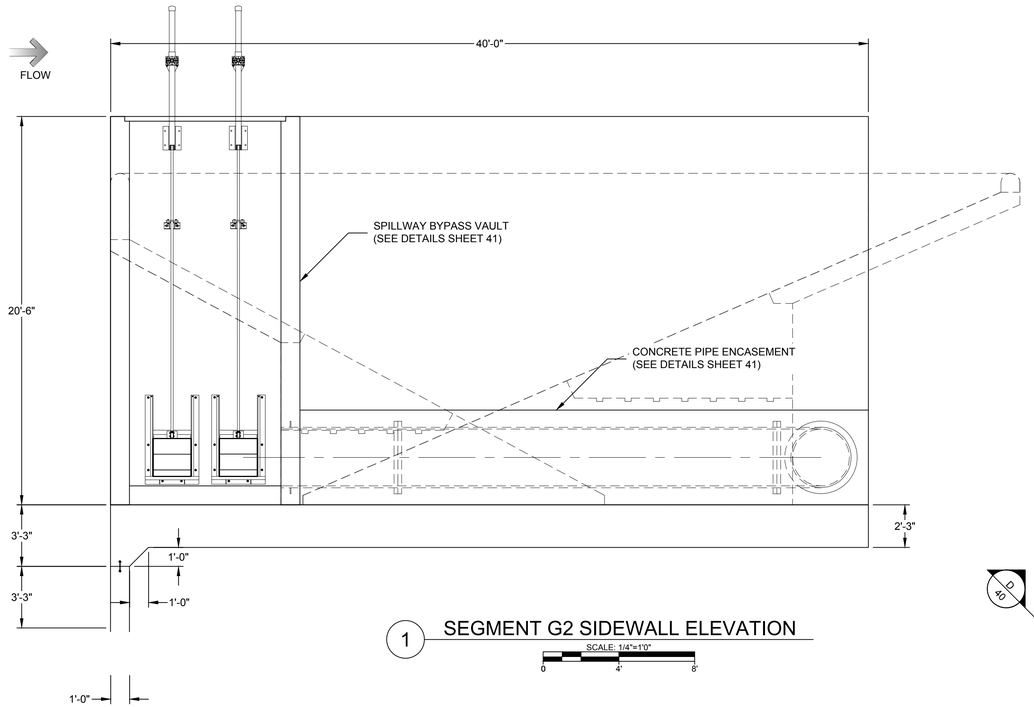
Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 / Phone: 770-781-8008 / Fax: 770-781-8003 / schnabel-eng.com

CONSTRUCTION PLANS FOR LAKE PEACHTREE SPILLWAY REPLACEMENT PROJECT PEACHTREE CITY, GEORGIA

PIANO KEY CONNECTION TO SIDEWALL SEGMENT G1

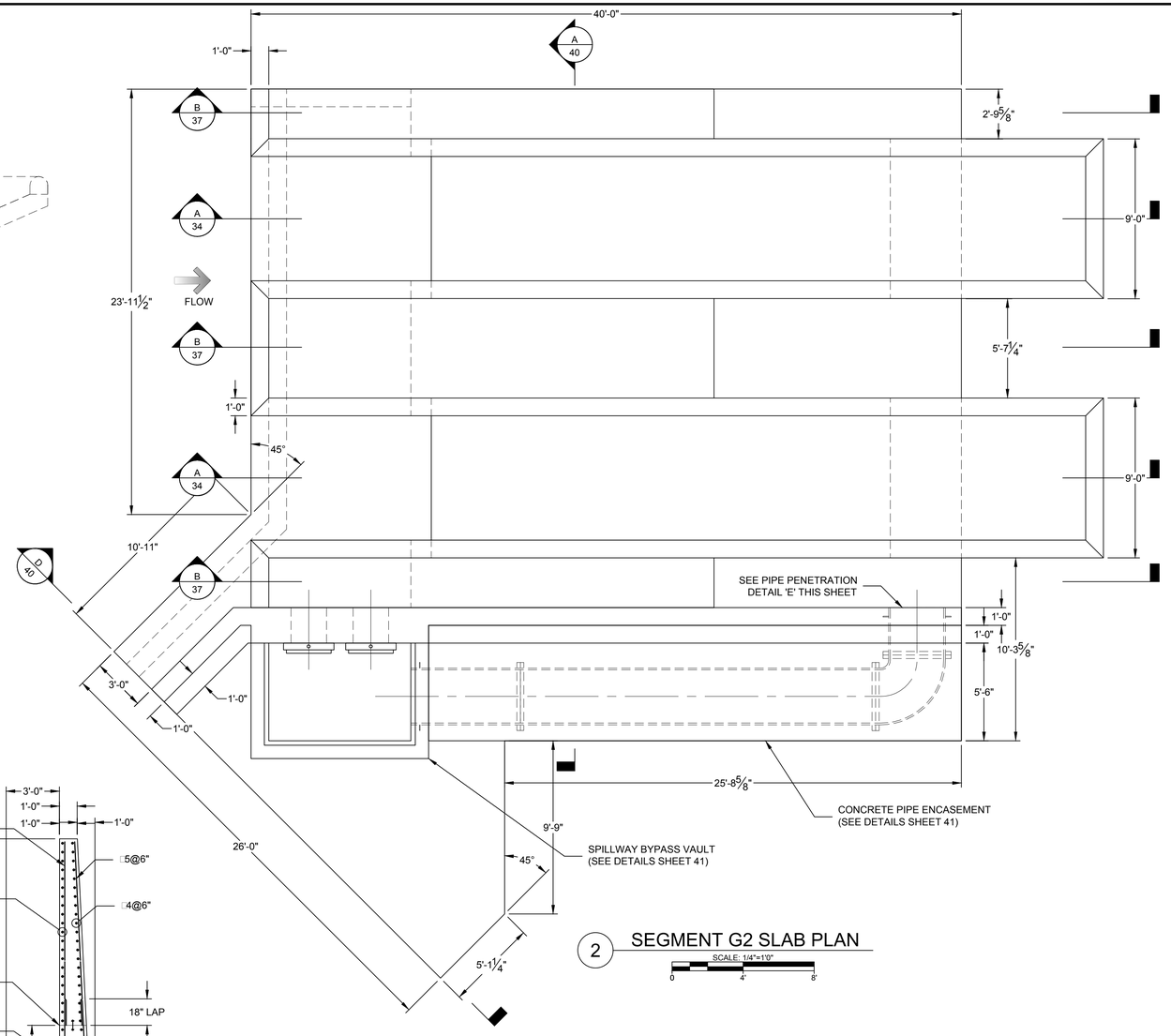
PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 39 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



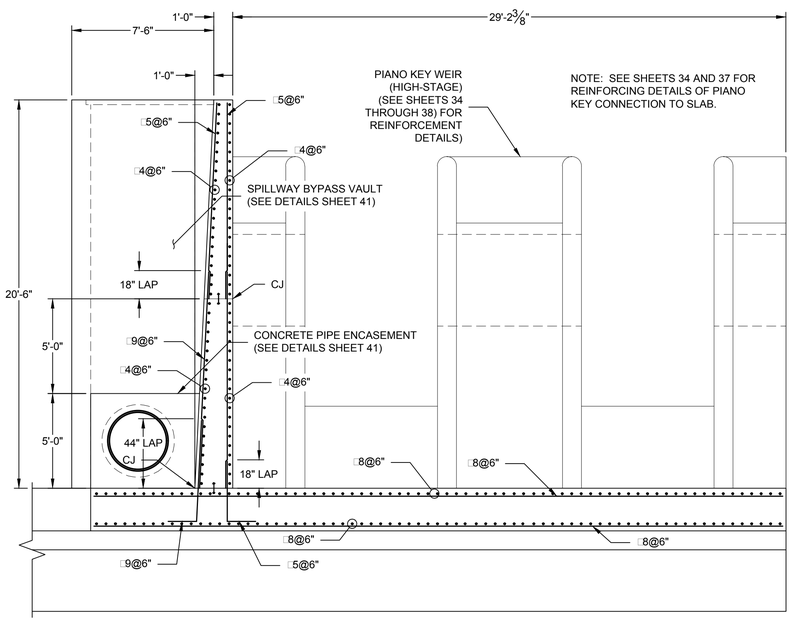
1 SEGMENT G2 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"



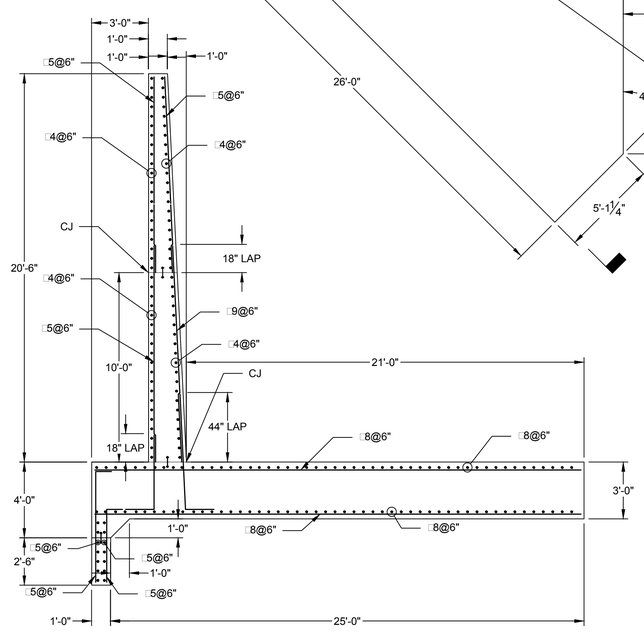
2 SEGMENT G2 SLAB PLAN

SCALE: 1/4"=1'0"



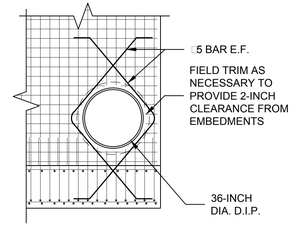
A SEGMENT G2 SECTION

SCALE: 1/4"=1'0"



D SEGMENT G2 SECTION

SCALE: 1/4"=1'0"



E PIPE PENETRATION DETAIL

SCALE: 1/4"=1'0"

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19685

REGISTERED PROFESSIONAL ENGINEER
GEORGIA
No. 19685
RANDALL P. BASS

Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 / Phone: 770-781-8008 / Fax: 770-781-8003 /
schnabel-eng.com

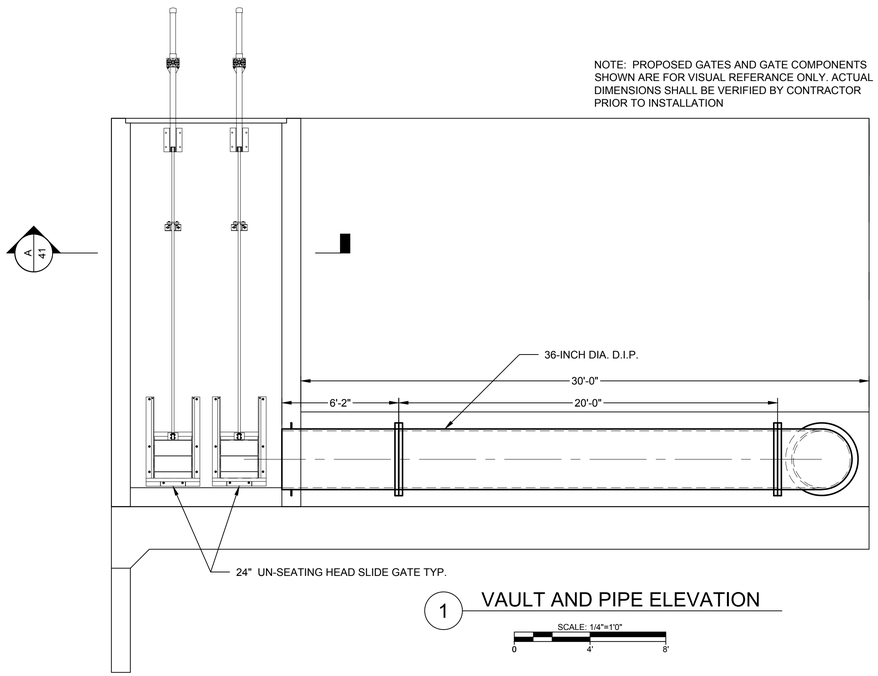
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB REINFORCEMENT DETAILS SEGMENT G2

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
40 OF 66

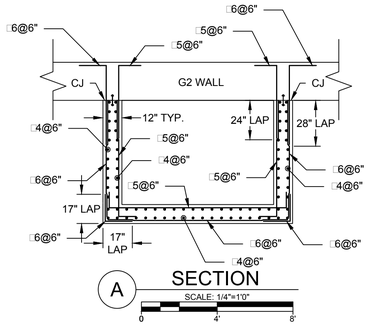
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG

NOTE: PROPOSED GATES AND GATE COMPONENTS SHOWN ARE FOR VISUAL REFERANCE ONLY. ACTUAL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION



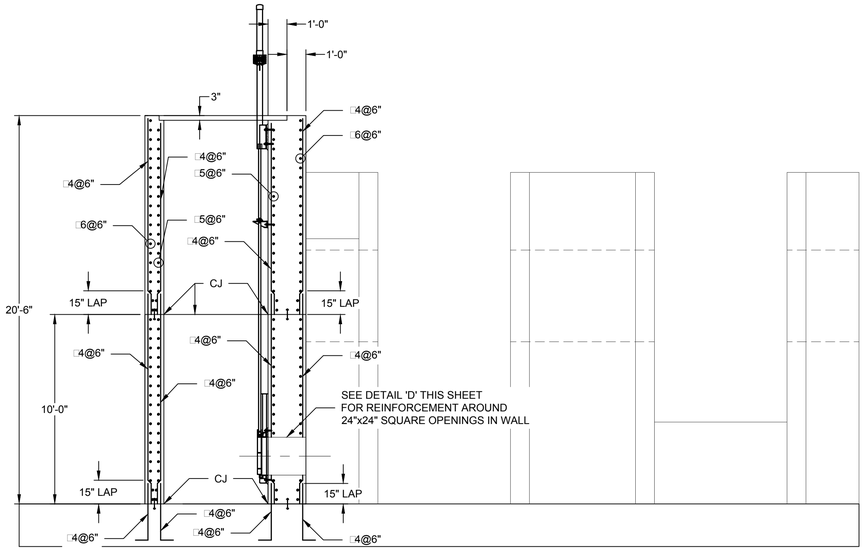
1 VAULT AND PIPE ELEVATION

SCALE: 1/4"=1'0"



A SECTION

SCALE: 1/4"=1'0"

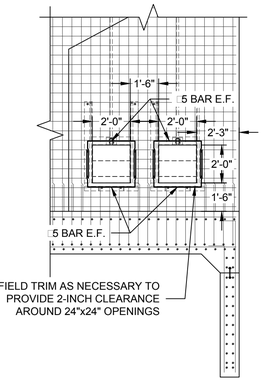


B SECTION

SCALE: 1/4"=1'0"

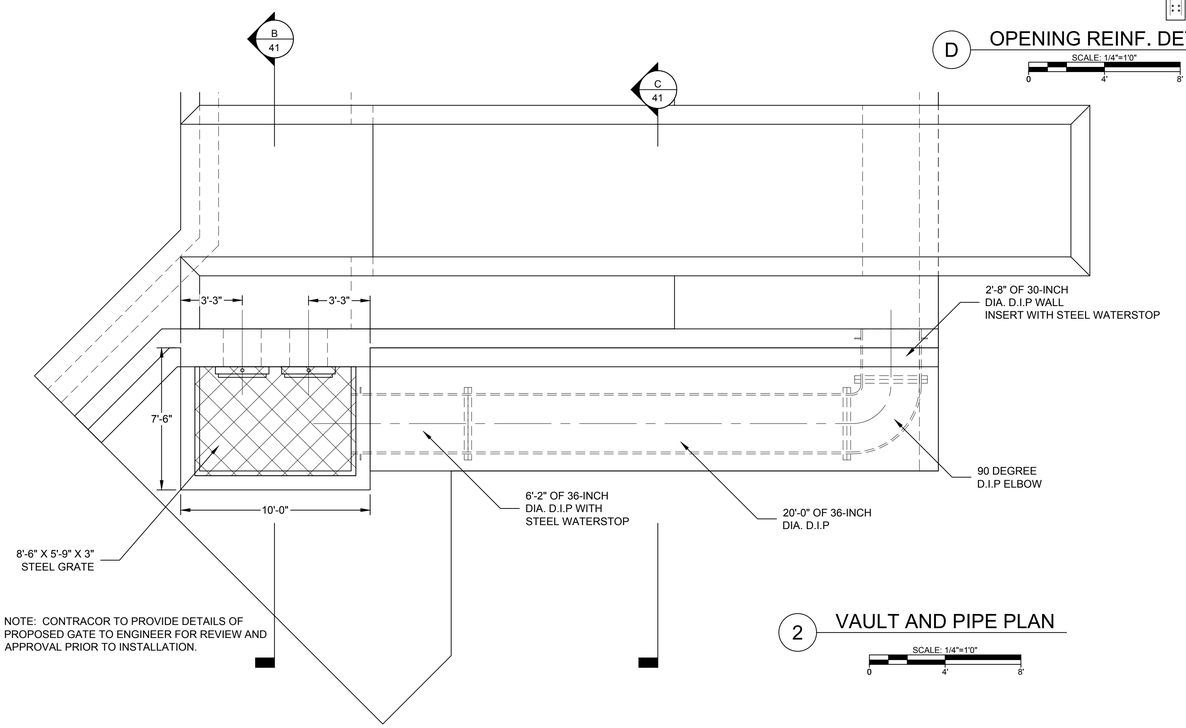
NOTE:

TRASHRACK NOT SHOWN FOR CLARITY (SEE DETAILS SHEET 42)



D OPENING REINF. DETAIL

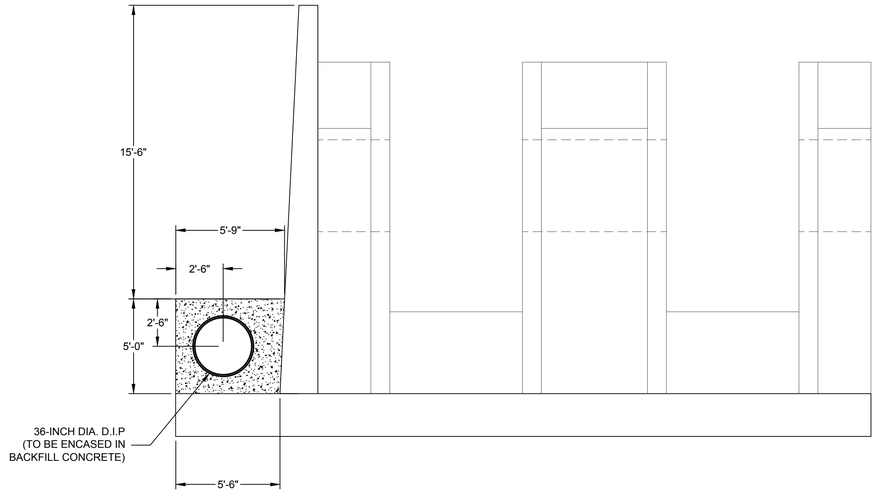
SCALE: 1/4"=1'0"



NOTE: CONTRACOR TO PROVIDE DETAILS OF PROPOSED GATE TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

2 VAULT AND PIPE PLAN

SCALE: 1/4"=1'0"



C SECTION

SCALE: 1/4"=1'0"

DESIGNED BY:	DRAWN BY:	CHECKED BY:
JTD, JC	CMB, JSR	RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

REV.	DESCRIPTION	DATE

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
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schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

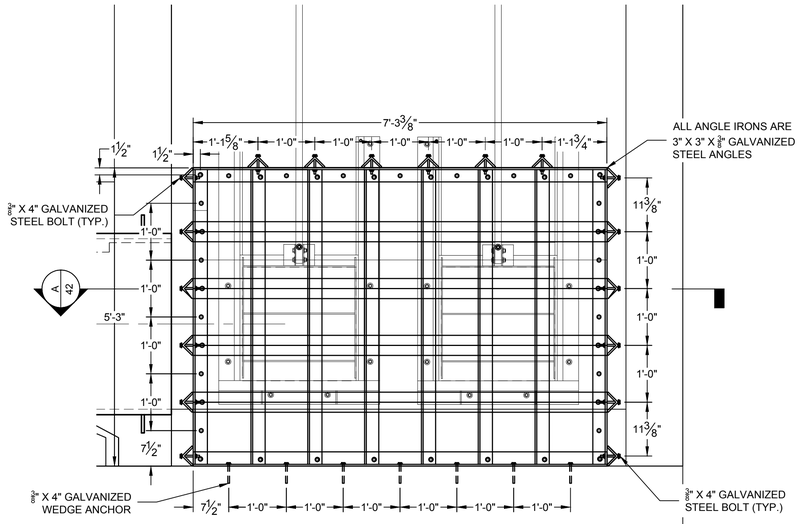
SPILLWAY BYPASS VAULT DETAILS SEGMENT G2

PROJECT: 16C17043.00

DATE: 07/10/2017

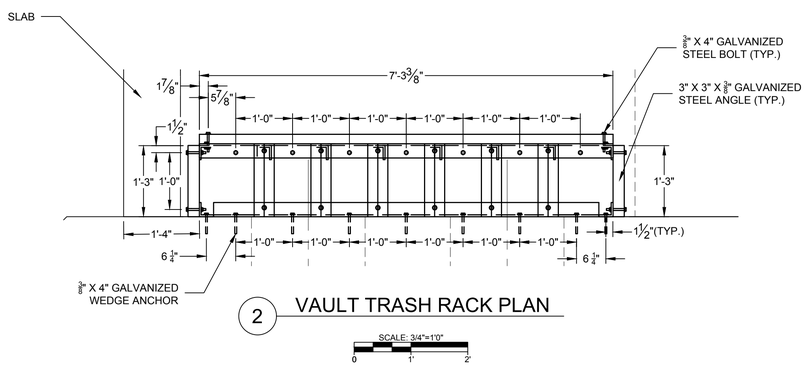
SHEET
41 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



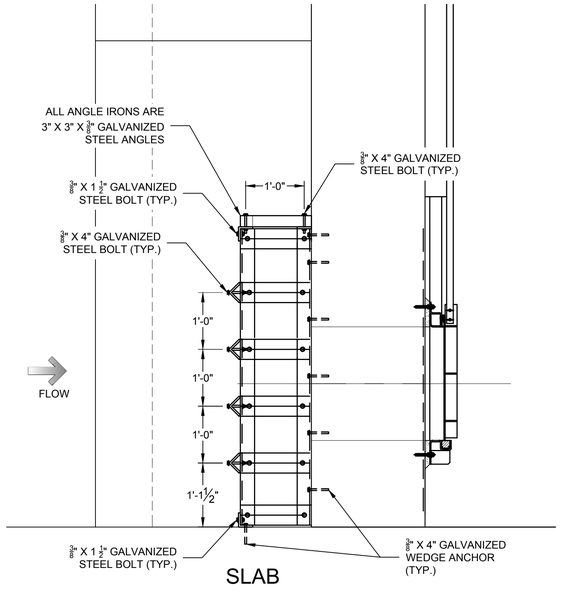
1 VAULT TRASH RACK ELEVATION

SCALE: 3/4"=1'0"



2 VAULT TRASH RACK PLAN

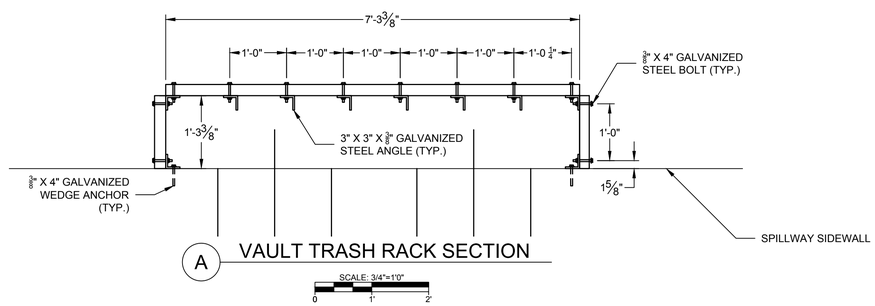
SCALE: 3/4"=1'0"



SLAB

3 VAULT TRASH RACK PROFILE

SCALE: 3/4"=1'0"



A VAULT TRASH RACK SECTION

SCALE: 3/4"=1'0"

NOTES:

1. CONTRACTOR SHALL PRESENT SHOP DRAWINGS SHOWING PROPOSED BOLT SYSTEM, INCLUDING WASHERS AND TYPE OF BOLTS. LOCKING TYPE WASHERS AND BOLTS SHALL BE USED.

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: CWB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA
No. 10685
PROFESSIONAL ENGINEER
RANDALL P. BASS

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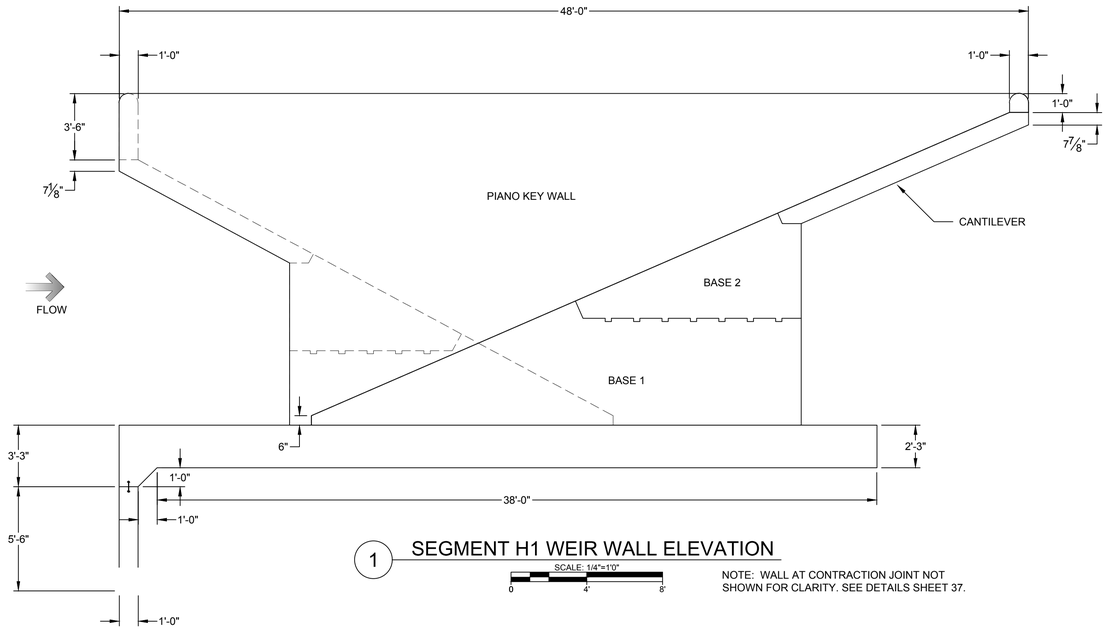
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SPILLWAY BYPASS VAULT TRASH RACK DETAIL

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
42 OF 66

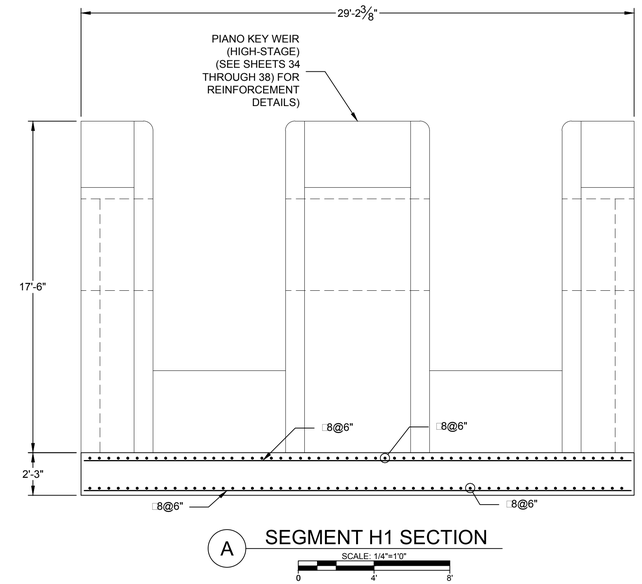


1 SEGMENT H1 WEIR WALL ELEVATION

SCALE: 1/4"=1'0"

0 4' 8'

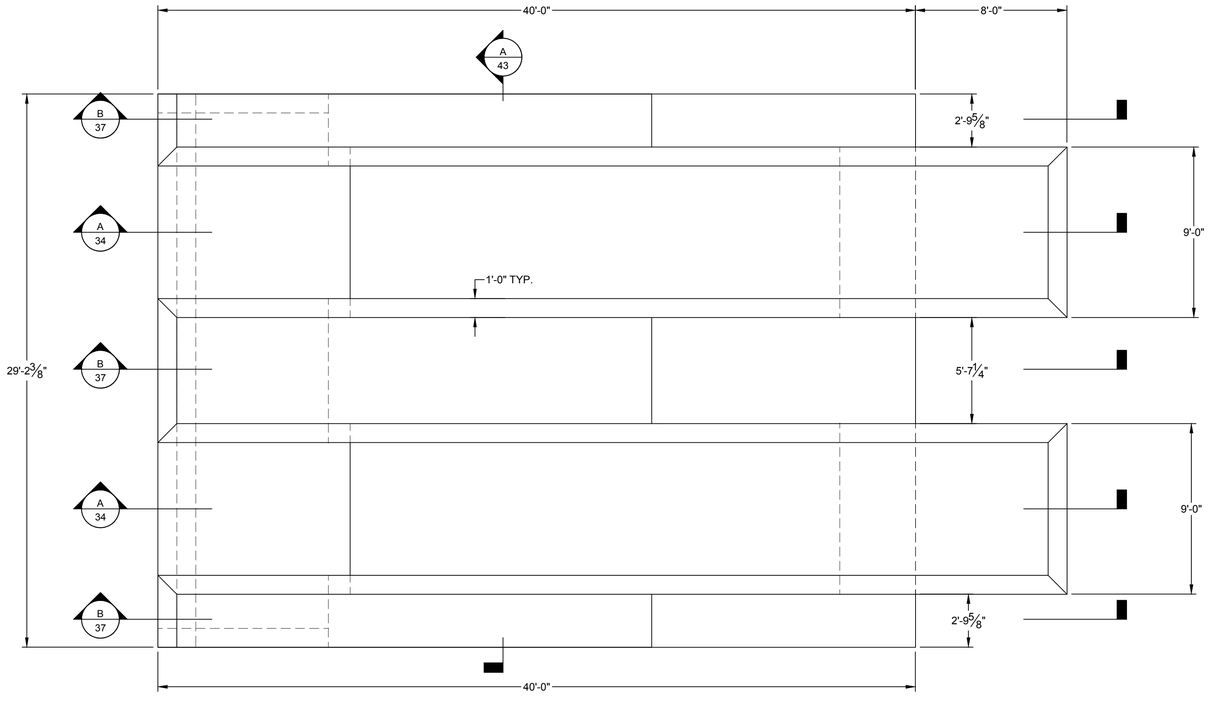
NOTE: WALL AT CONTRACTION JOINT NOT SHOWN FOR CLARITY. SEE DETAILS SHEET 37.



A SEGMENT H1 SECTION

SCALE: 1/4"=1'0"

0 4' 8'



2 SEGMENT H1 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

NOTE: SEGMENT H1 □ H2 SIMILAR

REV	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GHB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19885

GEORGIA REGISTERED No. 19885 PROFESSIONAL ENGINEER RANDALL P. BASS

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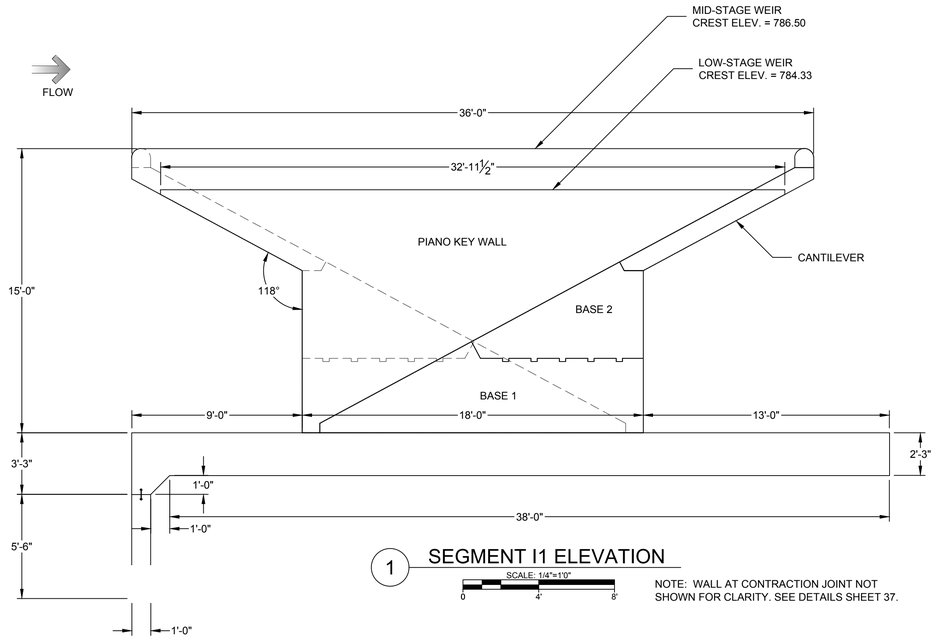
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

SLAB REINFORCEMENT DETAILS SEGMENT H1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
43 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG

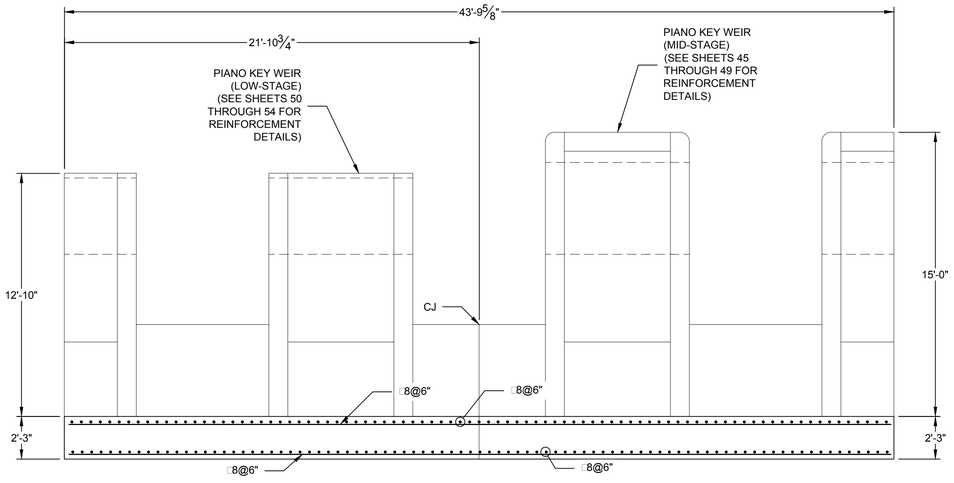


1 SEGMENT I1 ELEVATION

SCALE: 1/4"=1'0"

0 4' 8'

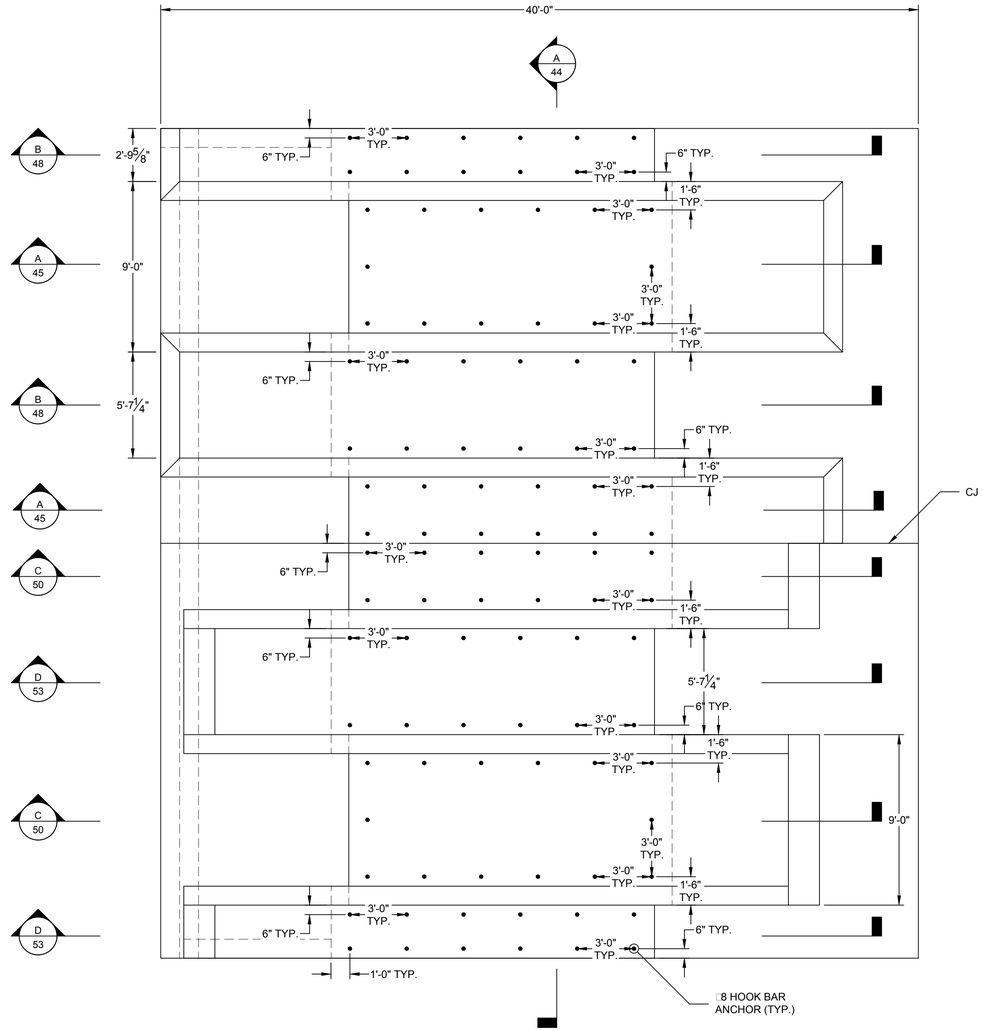
NOTE: WALL AT CONTRACTION JOINT NOT SHOWN FOR CLARITY. SEE DETAILS SHEET 37.



A SEGMENT I1 SECTION

SCALE: 1/4"=1'0"

0 4' 8'



FLOW

2 SEGMENT I1 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

REV	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19685

GEORGIA REGISTERED PROFESSIONAL ENGINEER RANDALL P. BASS No. 19685

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

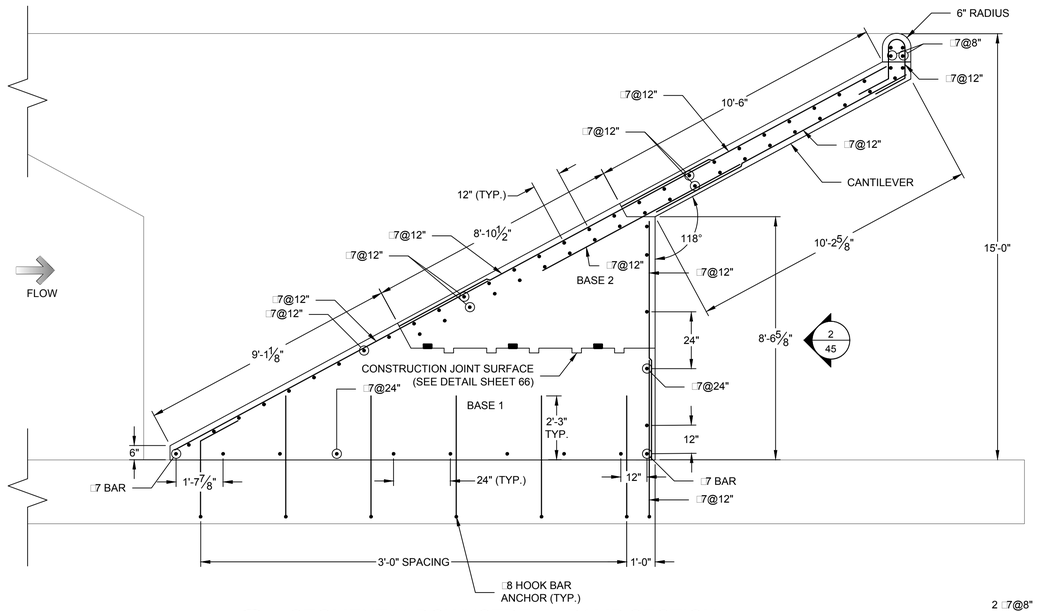
SLAB REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00

DATE: 07/10/2017

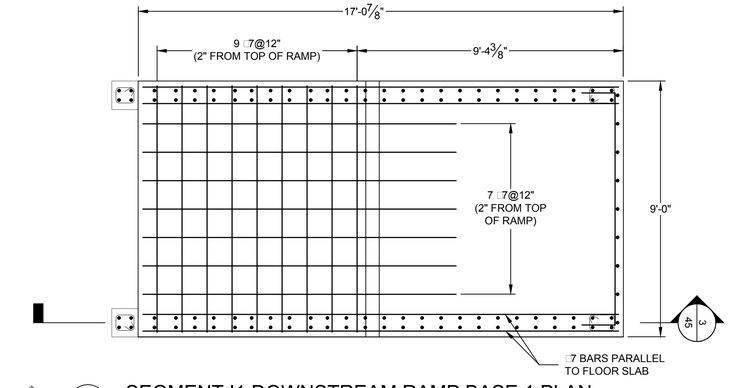
SHEET
44 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



A SEGMENT I1 DOWNSTREAM RAMP SECTION

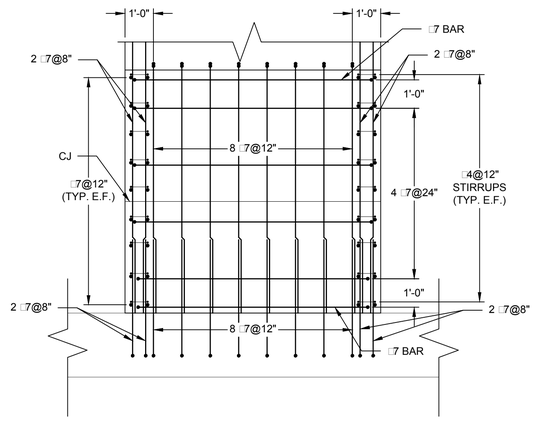
SCALE: 3/8"=1'0"



1 SEGMENT I1 DOWNSTREAM RAMP BASE 1 PLAN

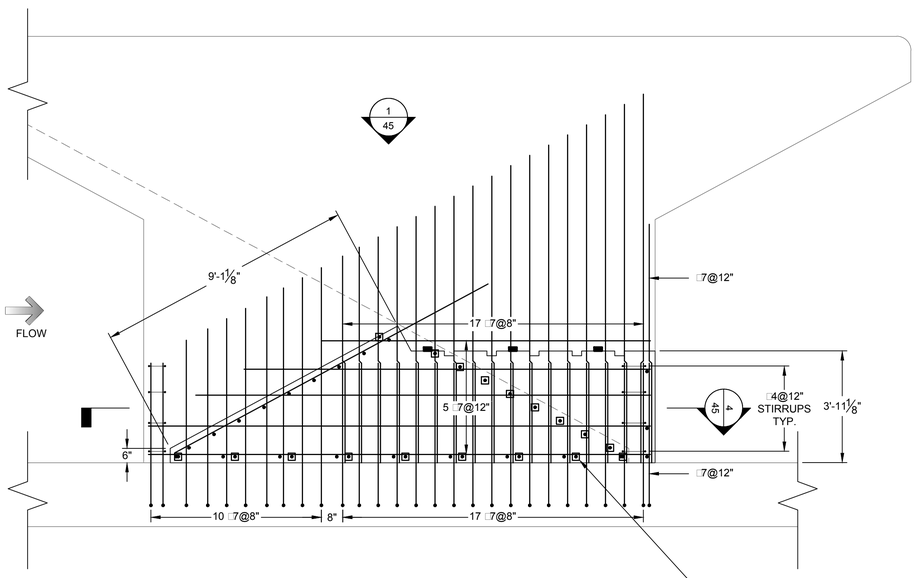
SCALE: 3/8"=1'0"

NOTE: FORM SAVERS FOR CONNECTION TO UPSTREAM RAMP NOT SHOWN FOR CLARITY.



2 SEGMENT I1 DOWNSTREAM RAMP ELEVATION

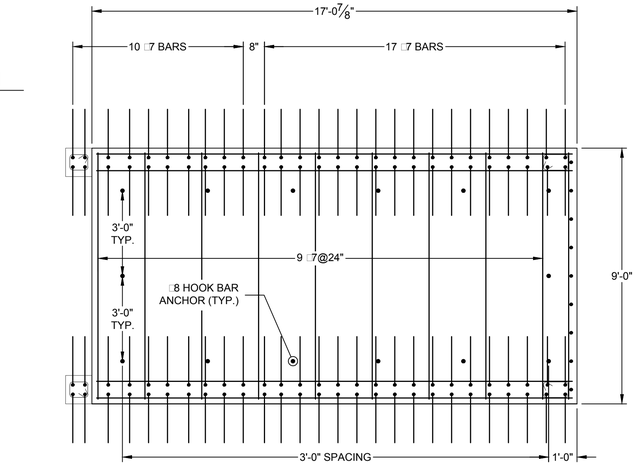
SCALE: 3/8"=1'0"



3 SEGMENT I1 DOWNSTREAM RAMP BASE 1 SECTION

SCALE: 3/8"=1'0"

HORIZONTAL FORM SAVER (TYP.) TO BE INSTALLED IN AREA(S) SHOWN IN SEGMENT G1 DOWNSTREAM RAMP BASE 1. SEE FURTHER DETAILS SHEETS 37 AND 38. FORM SAVERS REQUIRED TO STRUCTURALLY TIE SEGMENT G1 DOWNSTREAM RAMP BASE 1 TO SEGMENT G1 INFILL(S).



4 SEGMENT I1 DOWNSTREAM RAMP BASE 1 SECTION

SCALE: 3/8"=1'0"

DESIGNED BY: JTD, JC
DRAWN BY: GHB, JSR
CHECKED BY: RPB, JPC
RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 19685
DATE: 07/10/17

REV.	DESCRIPTION	DATE

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19685 RANDALL P. BASS

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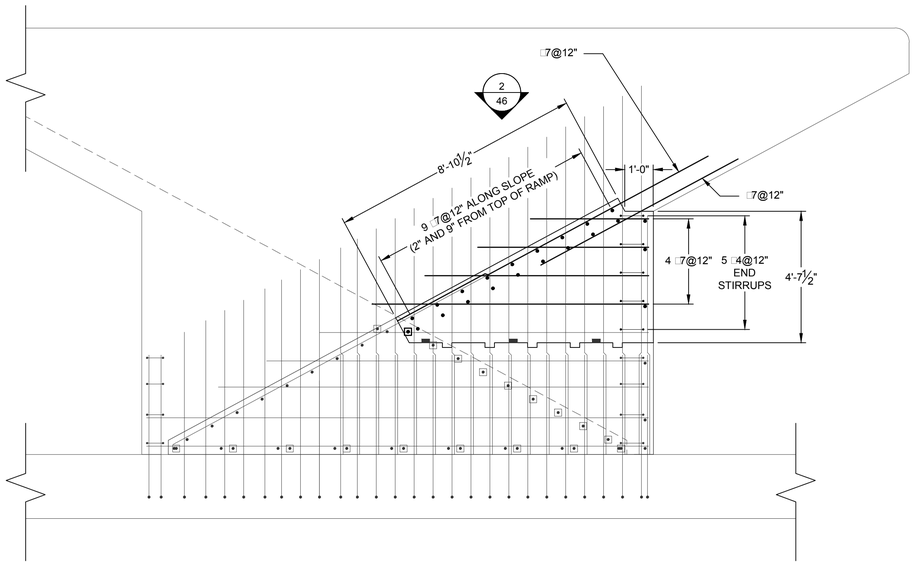
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

MID STAGE DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
45 OF 66

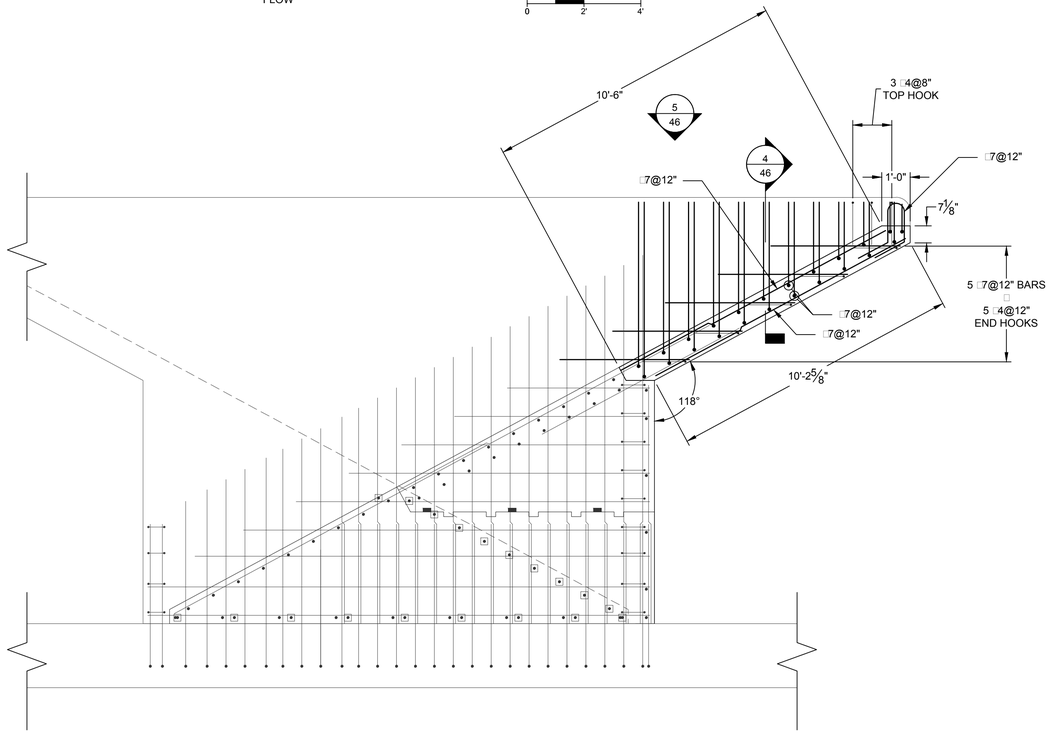


FLOW

1 SEGMENT I1 DOWNSTREAM RAMP BASE 2

SCALE: 3/8"=1'0"

0 2' 4'

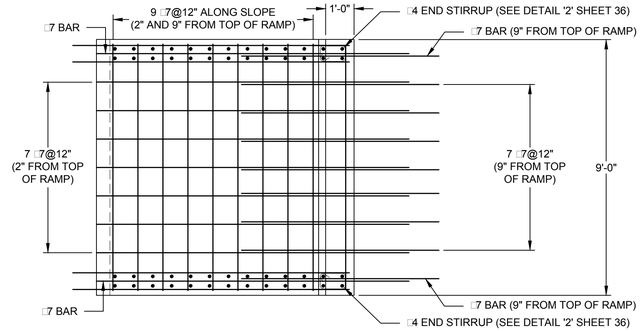


FLOW

3 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER

SCALE: 3/8"=1'0"

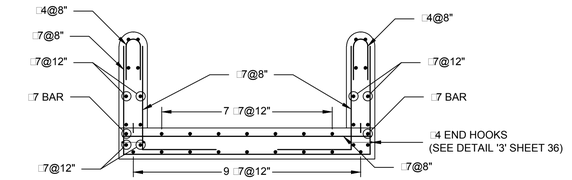
0 2' 4'



2 SEGMENT I1 DOWNSTREAM RAMP BASE 2 PLAN

SCALE: 3/8"=1'0"

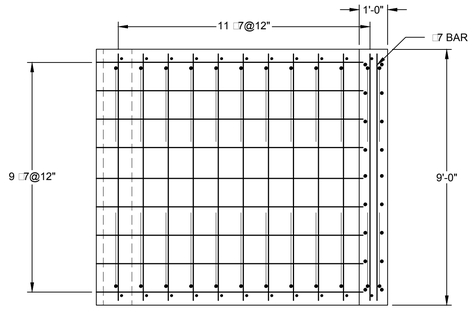
0 2' 4'



4 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER SECTION

SCALE: 3/8"=1'0"

0 2' 4'

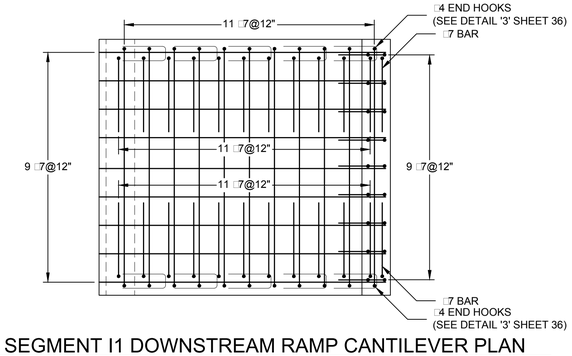


5 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER PLAN

REINFORCEMENT 2" FROM TOP OF CANTILEVER SLAB

SCALE: 3/8"=1'0"

0 2' 4'



5 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER PLAN

REINFORCEMENT 2" FROM BOTTOM OF CANTILEVER SLAB

SCALE: 3/8"=1'0"

0 2' 4'

DATE	DESCRIPTION	REV.

DESIGNED BY: JTD, JC
DRAWN BY: DHB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

MID STAGE DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
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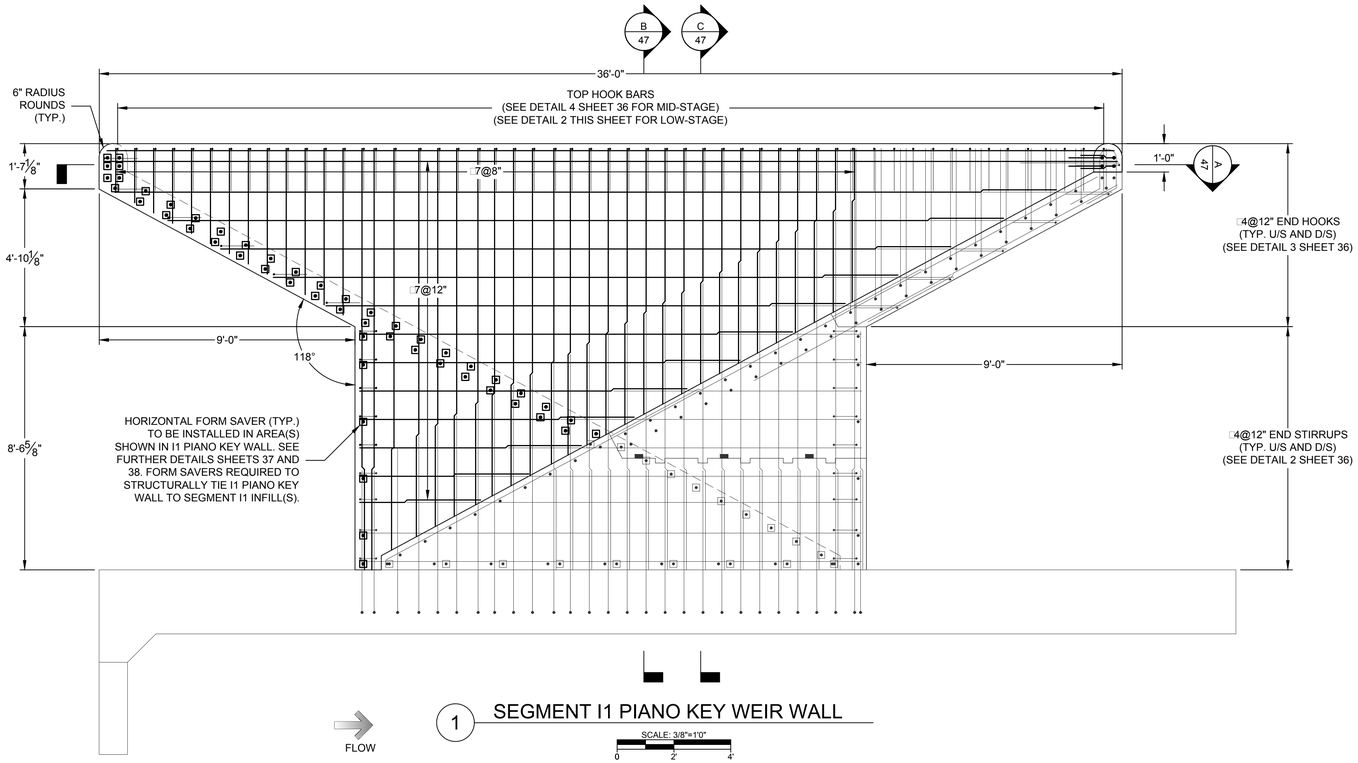
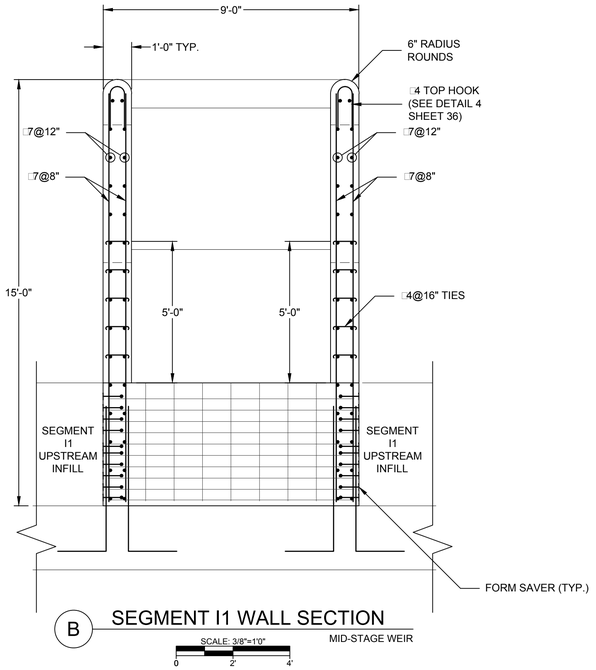
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



1 SEGMENT I1 PIANO KEY WEIR WALL

SCALE: 3/8"=1'0"

0 2' 4'

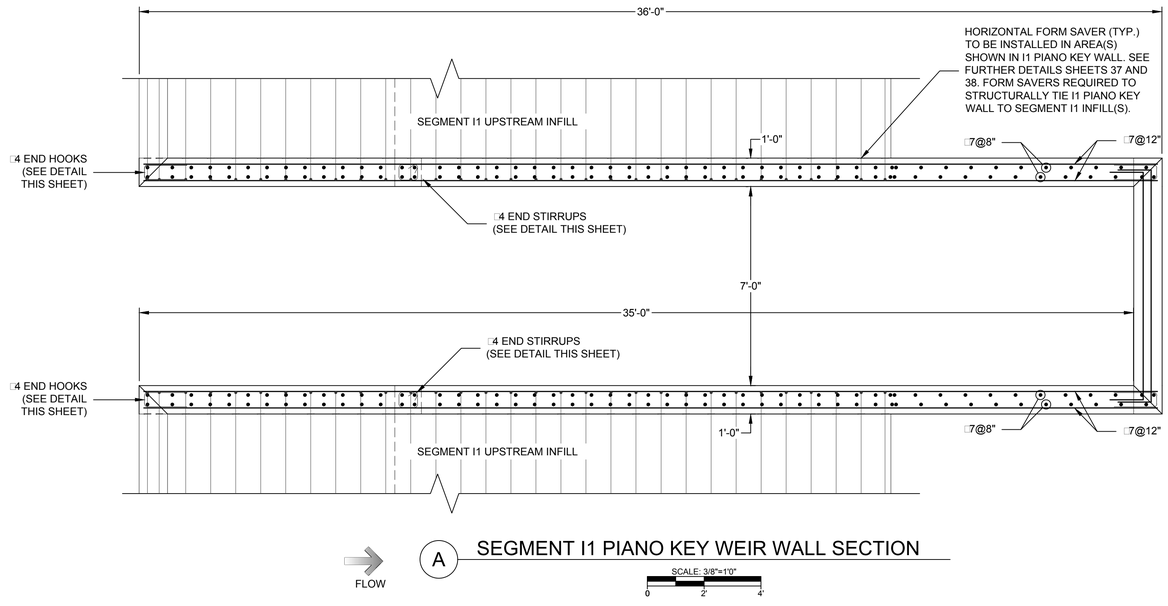


B SEGMENT I1 WALL SECTION

MID-STAGE WEIR

SCALE: 3/8"=1'0"

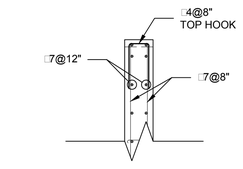
0 2' 4'



A SEGMENT I1 PIANO KEY WEIR WALL SECTION

SCALE: 3/8"=1'0"

0 2' 4'

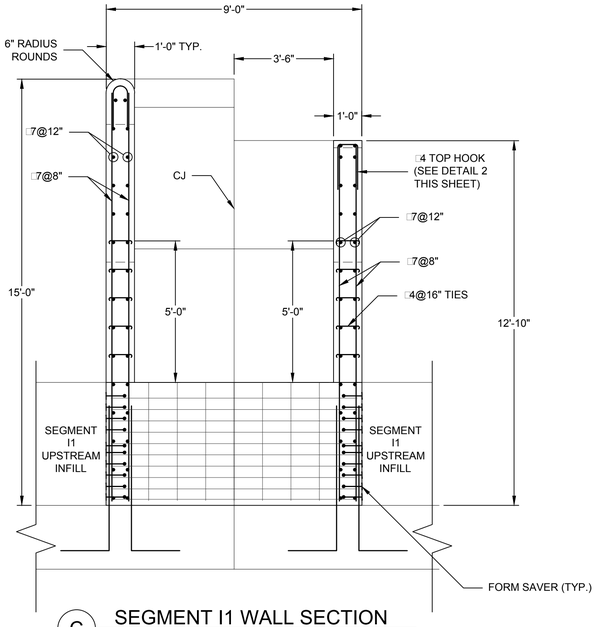


2 TOP HOOK DETAIL

LOW-STAGE WEIR WALL

SCALE: 3/8"=1'0"

0 2' 4'



C SEGMENT I1 WALL SECTION

MID-STAGE TO LOW-STAGE TRANSITION

SCALE: 3/8"=1'0"

0 2' 4'

DATE	DESCRIPTION	REV.

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

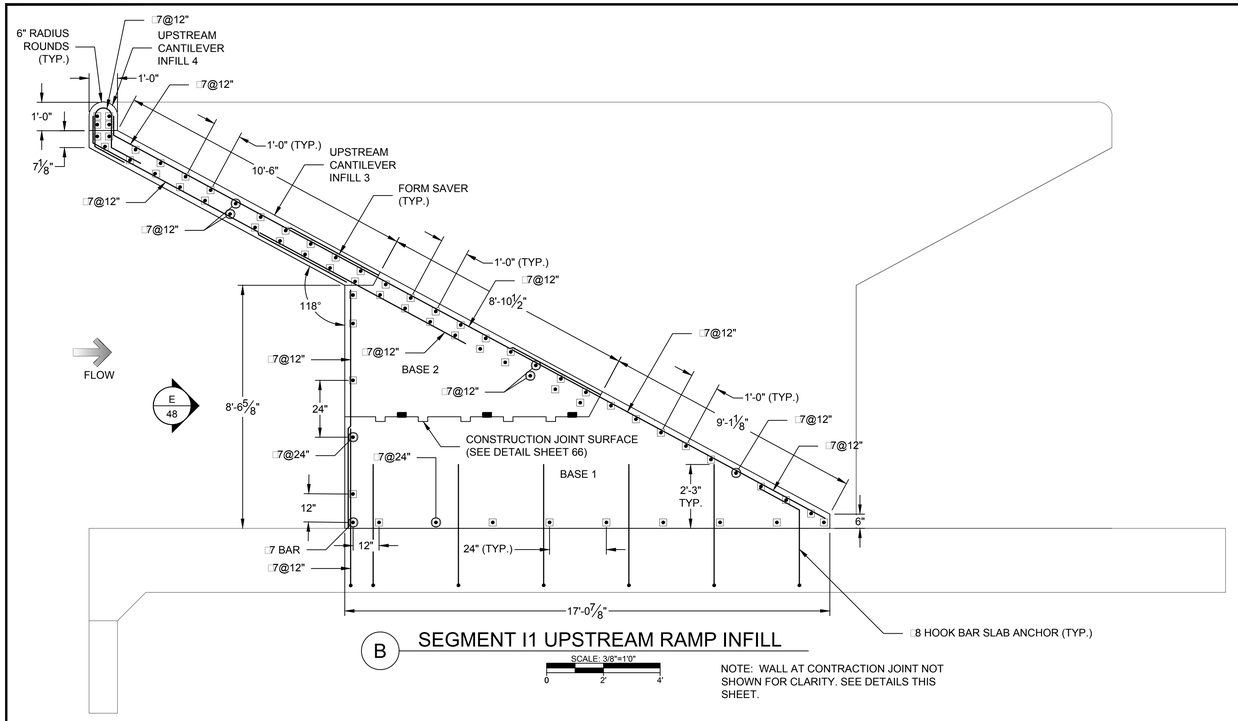
MID STAGE DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
47 OF 66

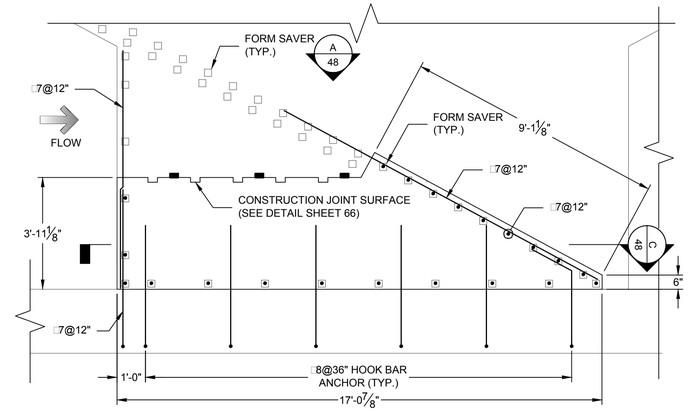
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



B SEGMENT I1 UPSTREAM RAMP INFILL

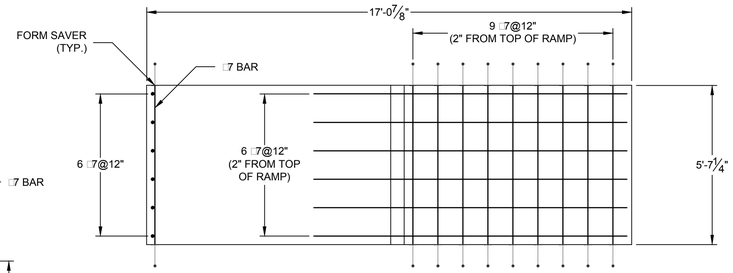
SCALE: 3/8"=1'0"

NOTE: WALL AT CONTRACTION JOINT NOT SHOWN FOR CLARITY. SEE DETAILS THIS SHEET.



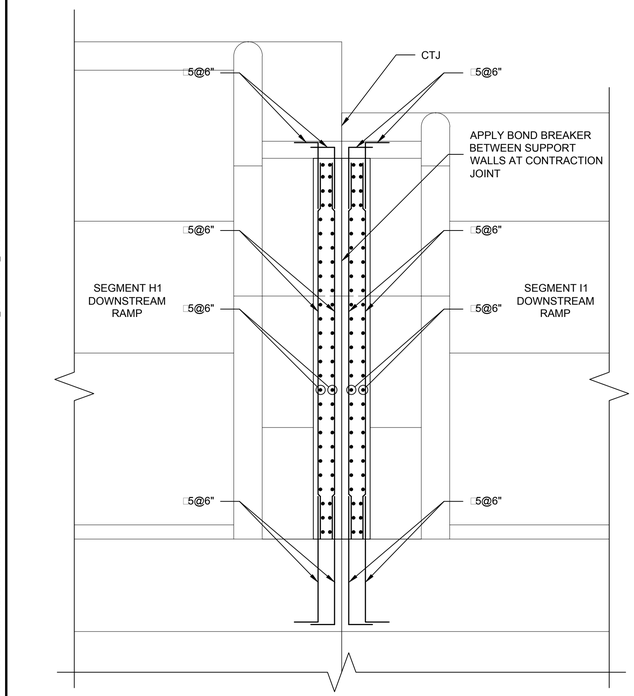
2 SEGMENT I1 INFILL 1

SCALE: 3/8"=1'0"



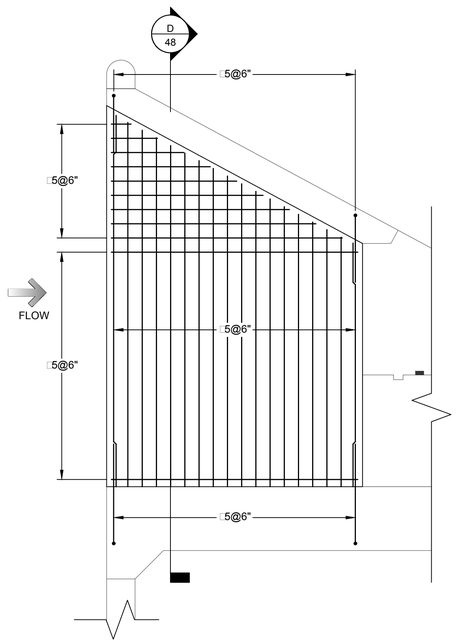
A SEGMENT I1 INFILL BASE 1 PLAN

SCALE: 3/8"=1'0"



D SEGMENT I1 SUPPORT WALL SECTION

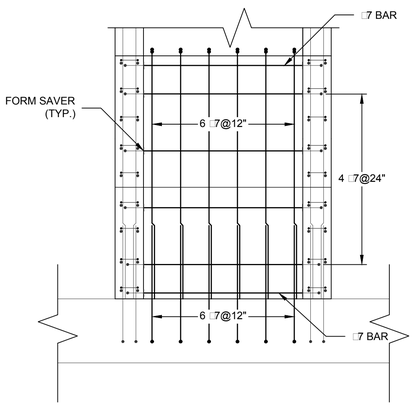
SCALE: 3/8"=1'0"



1 SEGMENT I1 SUPPORT WALL AT CONTRACTION JOINT

BETWEEN SEGMENTS I1 AND H1

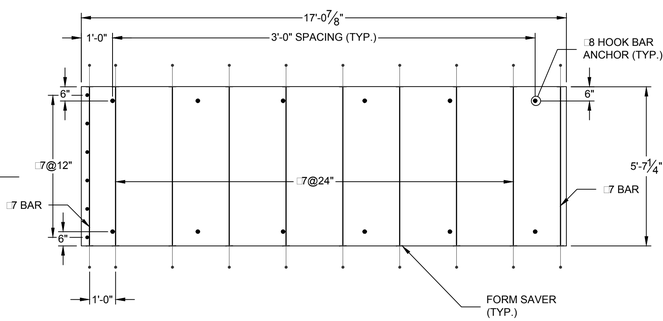
SCALE: 3/8"=1'0"



E SEGMENT I1 INFILL BASE ELEVATION

SCALE: 3/8"=1'0"

NOTE: FOR CONTRACTION JOINT BETWEEN PIANO KEY SEGMENTS I1 AND H1, PROVIDE 2-INCHES CLEARANCE FOR REINFORCEMENT EACH SIDE OF JOINT. (G2 AND H2 SIMILAR, BUT OPPOSITE)



C SEGMENT I1 INFILL BASE 1 SECTION

SCALE: 3/8"=1'0"

DESIGNED BY: JTD, JC
DRAWN BY: DWB, CBR
CHECKED BY: RPB, JRC
DATE: 07/10/17

RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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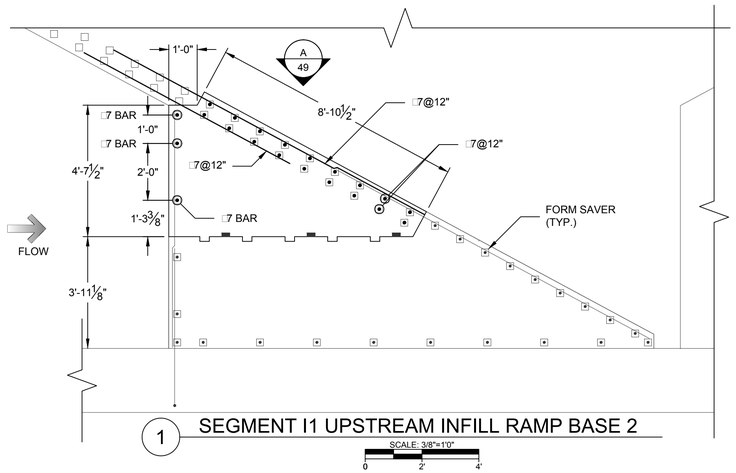
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

MID STAGE UPSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 48 OF 66

REV.	DESCRIPTION	DATE

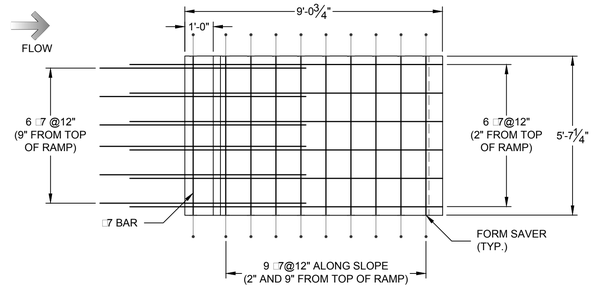
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG



1 SEGMENT I1 UPSTREAM INFILL RAMP BASE 2

SCALE: 3/8"=1'0"

0 2' 4'

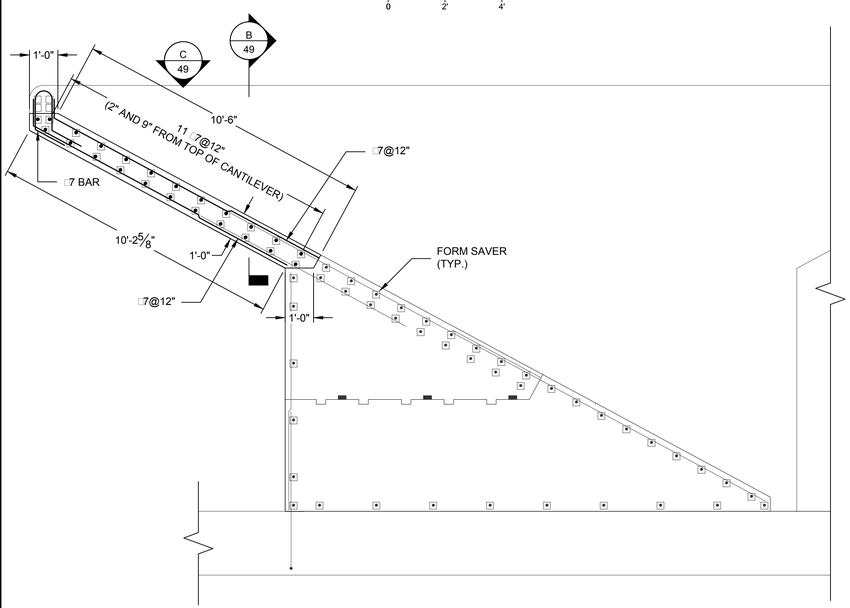


A SEGMENT I1 UPSTREAM INFILL RAMP BASE 2 PLAN

SCALE: 3/8"=1'0"

0 2' 4'

NOTE: FOR CONTRACTION JOINT BETWEEN PIANO KEY SEGMENTS I1 AND H1, PROVIDE 2-INCHES CLEARANCE FOR REINFORCEMENT EACH SIDE OF JOINT.

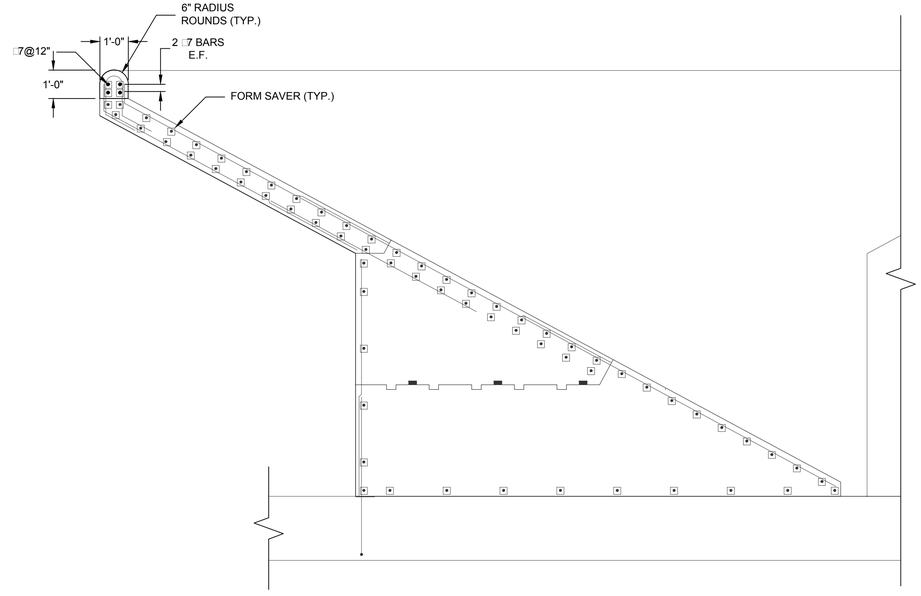


2 SEGMENT I1 UPSTREAM RAMP CANTILEVER INFILL 3

SCALE: 3/8"=1'0"

0 2' 4'

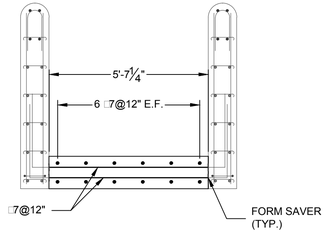
D
49



3 SEGMENT I1 UPSTREAM RAMP CANTILEVER INFILL 4

SCALE: 3/8"=1'0"

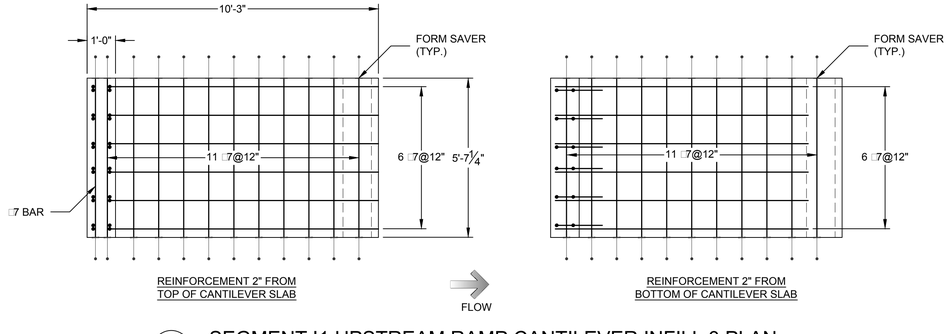
0 2' 4'



B SEGMENT I1 U/S INFILL 3 SECTION

SCALE: 3/8"=1'0"

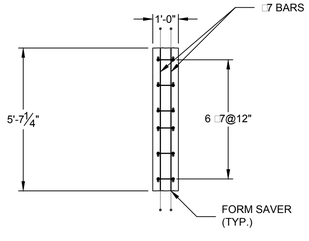
0 2' 4'



C SEGMENT I1 UPSTREAM RAMP CANTILEVER INFILL 3 PLAN

SCALE: 3/8"=1'0"

0 2' 4'



D SEGMENT I1 CANTILEVER INFILL 4 PLAN

SCALE: 3/8"=1'0"

0 2' 4'

DESIGNED BY: JTD, JC	DRAWN BY: DHB, CSR	DETAILED BY: RPB, JRC	REV	DESCRIPTION	DATE

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

MID STAGE UPSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
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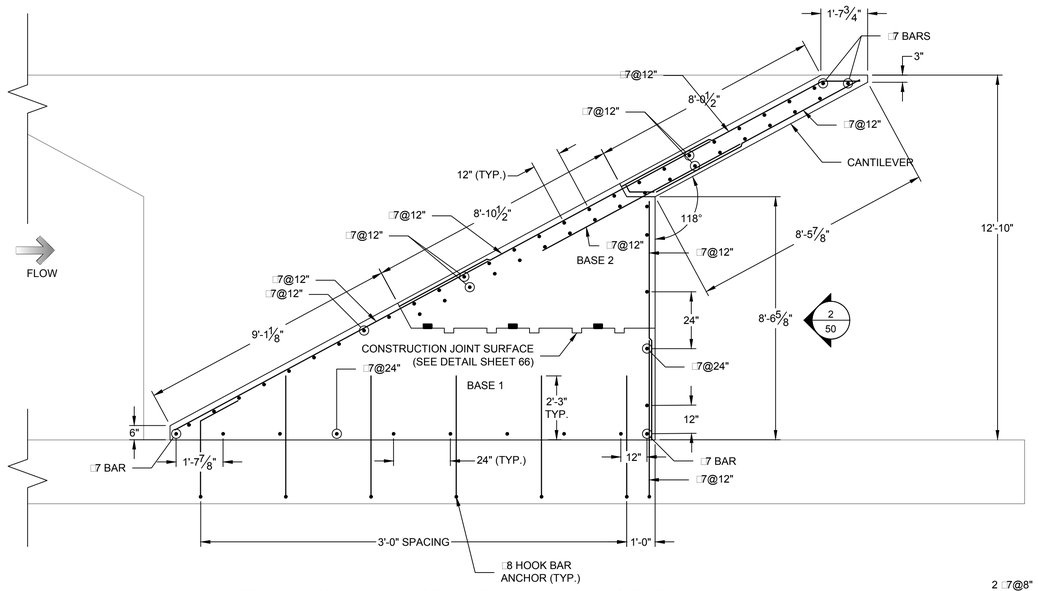
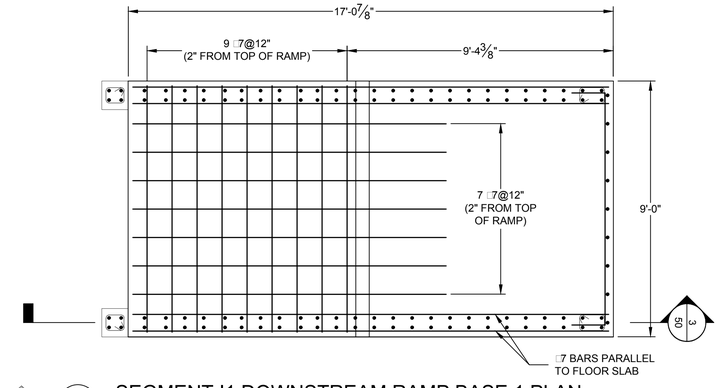


A SEGMENT I1 DOWNSTREAM RAMP SECTION

SCALE: 3/8"=1'0"

0 2' 4'

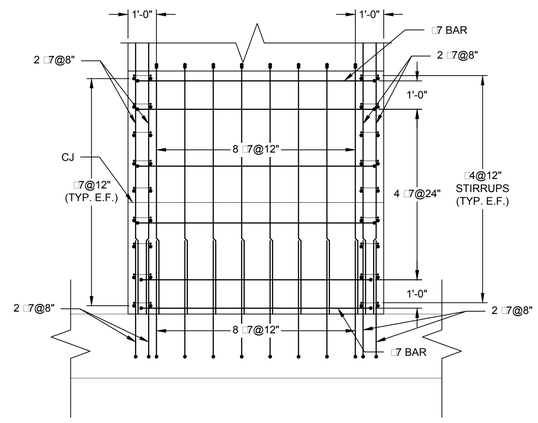


1 SEGMENT I1 DOWNSTREAM RAMP BASE 1 PLAN

SCALE: 3/8"=1'0"

0 2' 4'

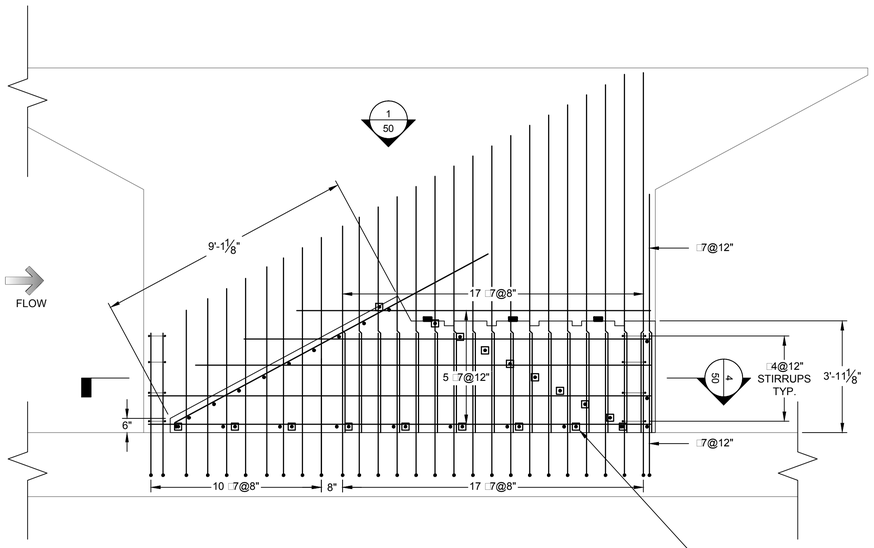
NOTE: FORM SAVERS FOR CONNECTION TO UPSTREAM RAMP NOT SHOWN FOR CLARITY.



2 SEGMENT I1 DOWNSTREAM RAMP ELEVATION

SCALE: 3/8"=1'0"

0 2' 4'

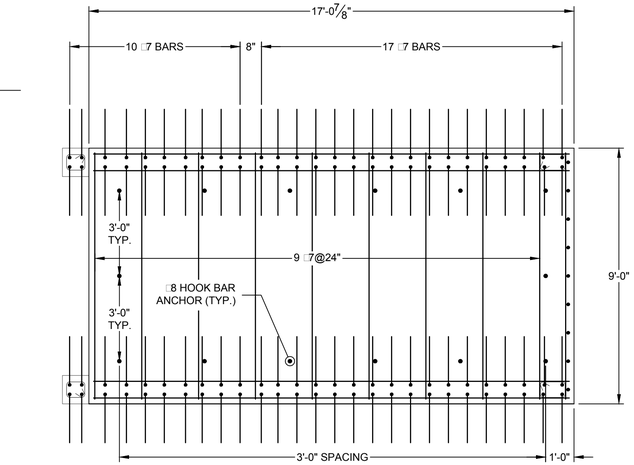


3 SEGMENT I1 DOWNSTREAM RAMP BASE 1 SECTION

SCALE: 3/8"=1'0"

0 2' 4'

HORIZONTAL FORM SAVER (TYP.) TO BE INSTALLED IN AREA(S) SHOWN IN SEGMENT G1 DOWNSTREAM RAMP BASE 1. SEE FURTHER DETAILS SHEETS 37 AND 38. FORM SAVERS REQUIRED TO STRUCTURALLY TIE SEGMENT G1 DOWNSTREAM RAMP BASE 1 TO SEGMENT G1 INFILL(S).



4 SEGMENT I1 DOWNSTREAM RAMP BASE 1 SECTION

SCALE: 3/8"=1'0"

0 2' 4'

DESIGNED BY: JTD, JC
DRAWN BY: DWB, CBR
CHECKED BY: RPB, JRC
DATE: 07/10/17
RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685

REV.	DESCRIPTION	DATE

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

LOW STAGE DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
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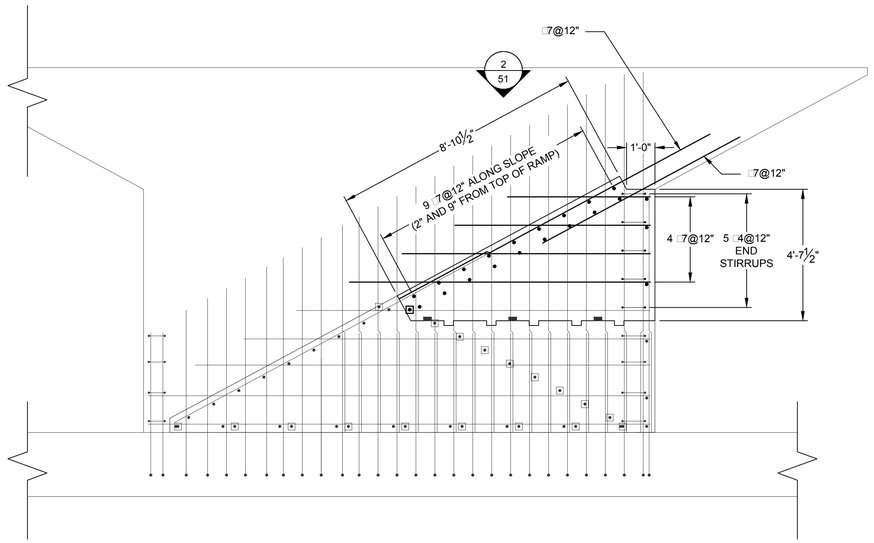
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG

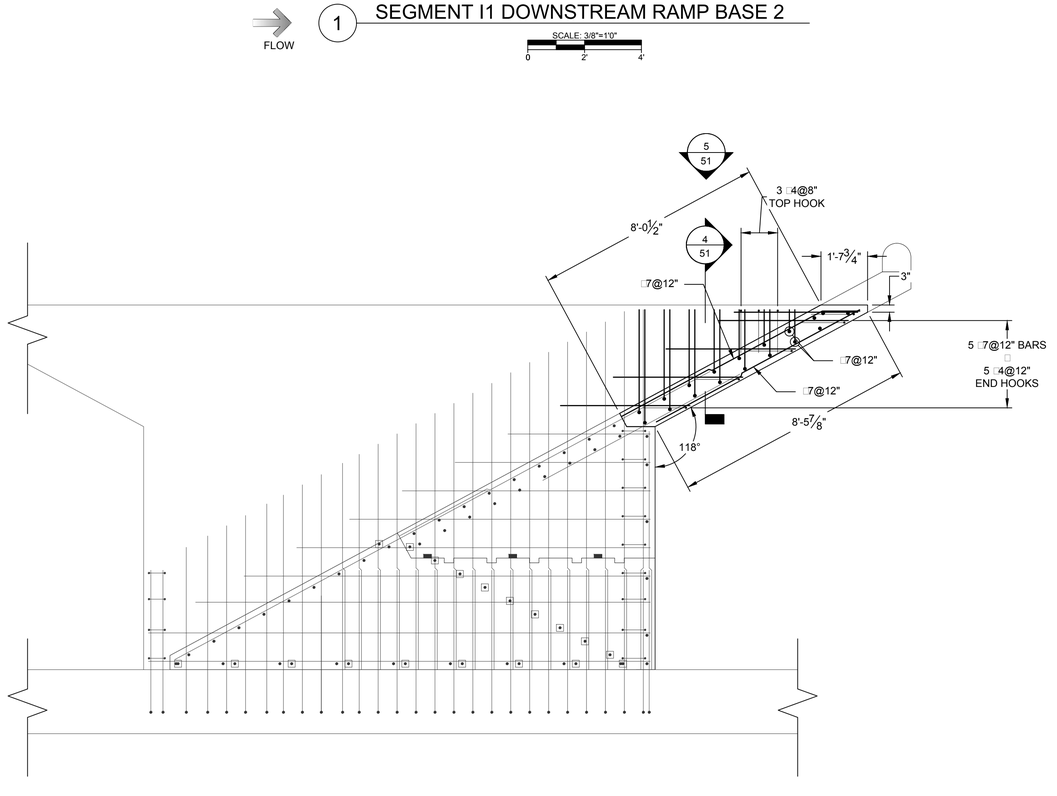


FLOW

1 SEGMENT I1 DOWNSTREAM RAMP BASE 2

SCALE: 3/8"=1'0"

0 2' 4'

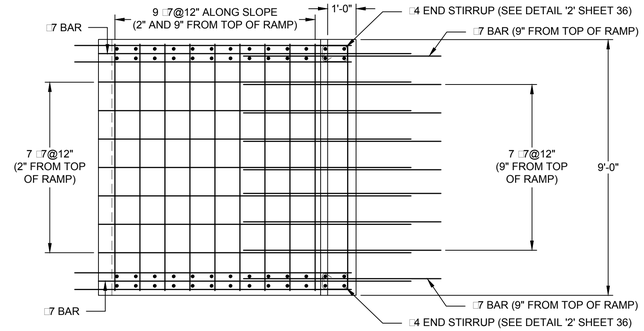


FLOW

3 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER

SCALE: 3/8"=1'0"

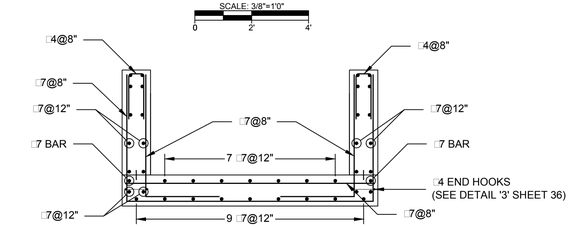
0 2' 4'



2 SEGMENT I1 DOWNSTREAM RAMP BASE 2 PLAN

SCALE: 3/8"=1'0"

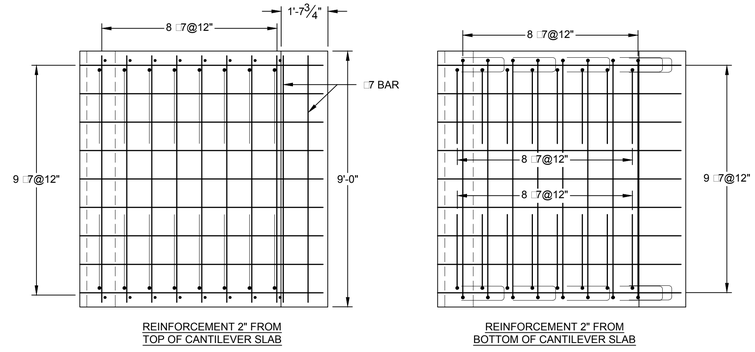
0 2' 4'



4 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER SECTION

SCALE: 3/8"=1'0"

0 2' 4'

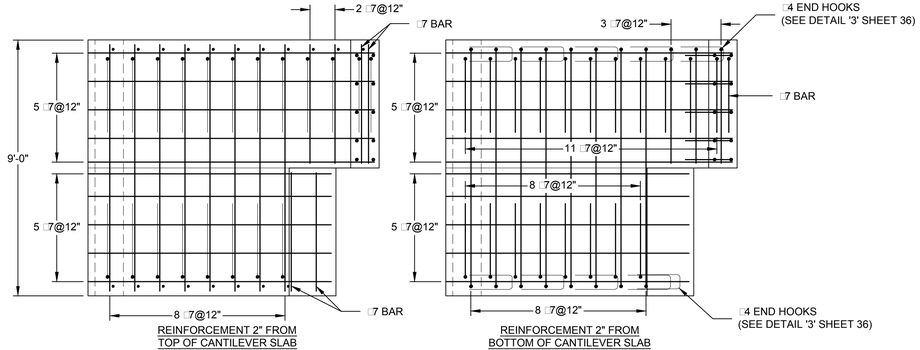


5 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER PLAN

LOW-STAGE

SCALE: 3/8"=1'0"

0 2' 4'



5 SEGMENT I1 DOWNSTREAM RAMP CANTILEVER PLAN

MID-STAGE TO LOW-STAGE TRANSITION

SCALE: 3/8"=1'0"

0 2' 4'

REV	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: DHB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

LOW STAGE DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
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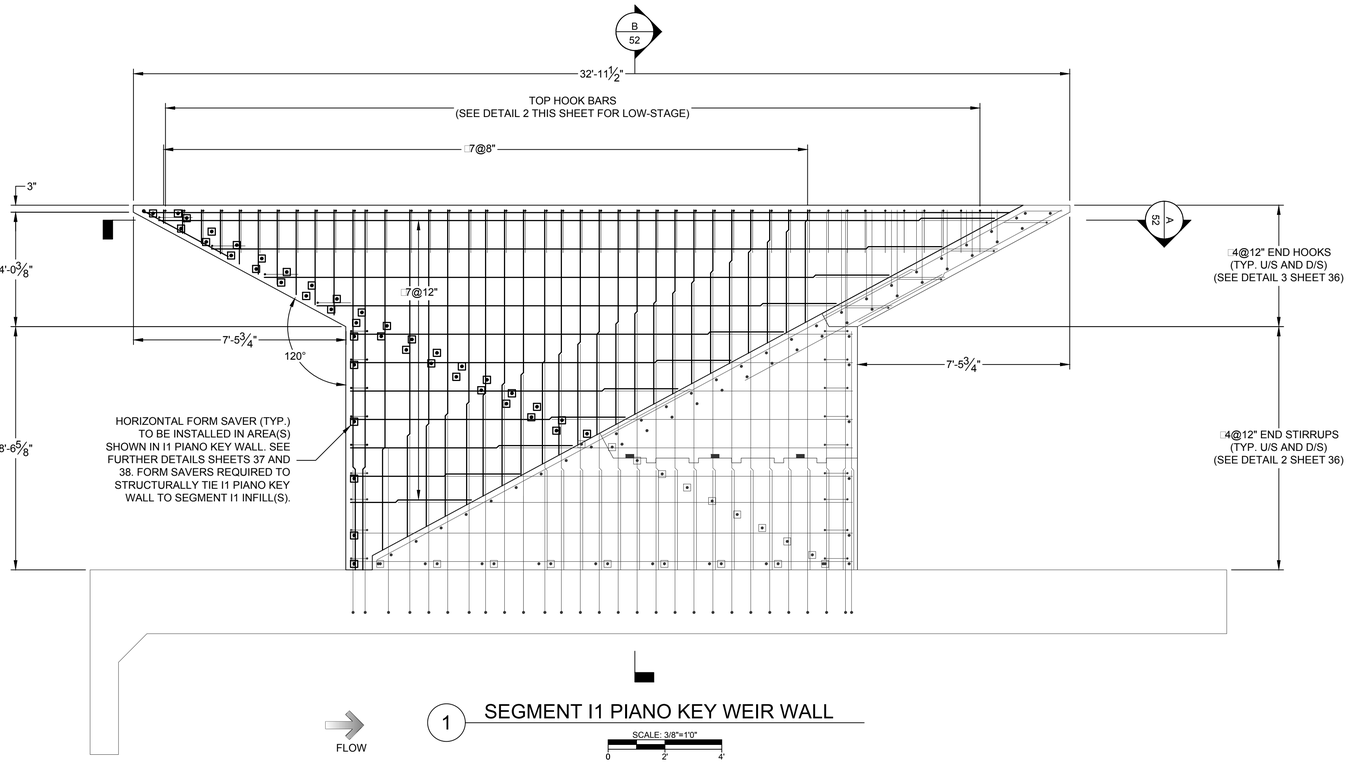
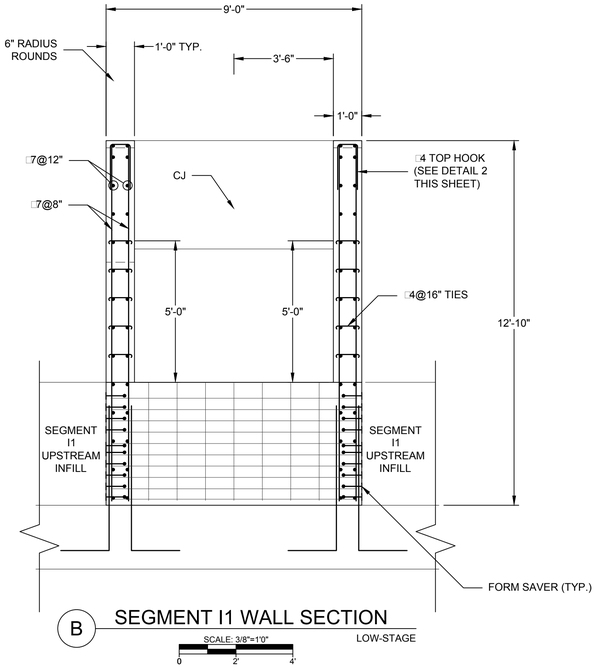


1 SEGMENT I1 PIANO KEY WEIR WALL

SCALE: 3/8"=1'0"

0 2' 4'

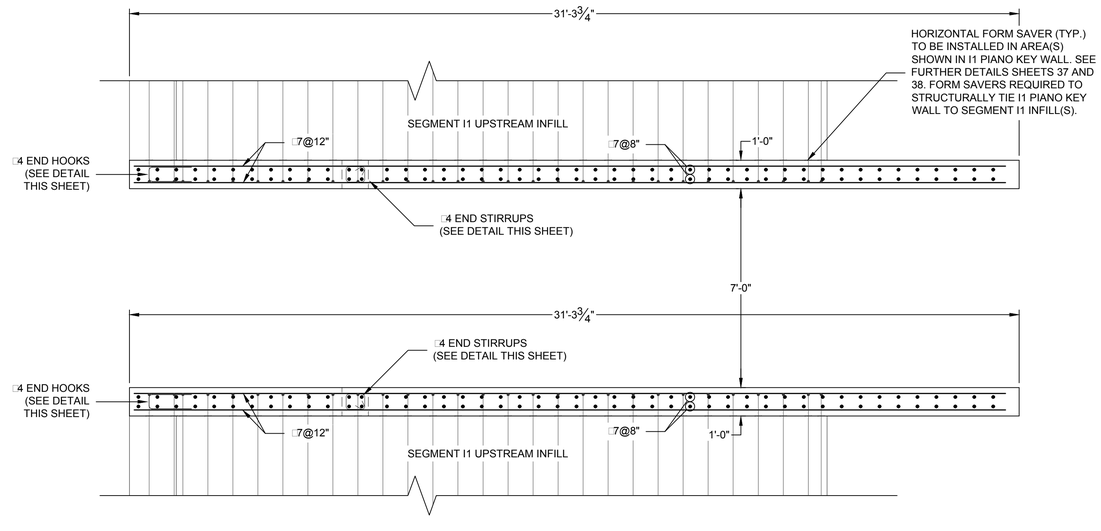


B SEGMENT I1 WALL SECTION

LOW-STAGE

SCALE: 3/8"=1'0"

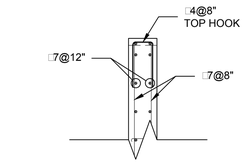
0 2' 4'



A SEGMENT I1 PIANO KEY WEIR WALL SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 TOP HOOK DETAIL

LOW-STAGE WEIR WALL

SCALE: 3/8"=1'0"

0 2' 4'

DATE	DESCRIPTION	REV.

DESIGNED BY: JTD, JC
DRAWN BY: DWB, CBR
CHECKED BY: RPB, JRC
DATE: 07/10/17

RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

LOW STAGE DOWNSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00

DATE: 07/10/2017

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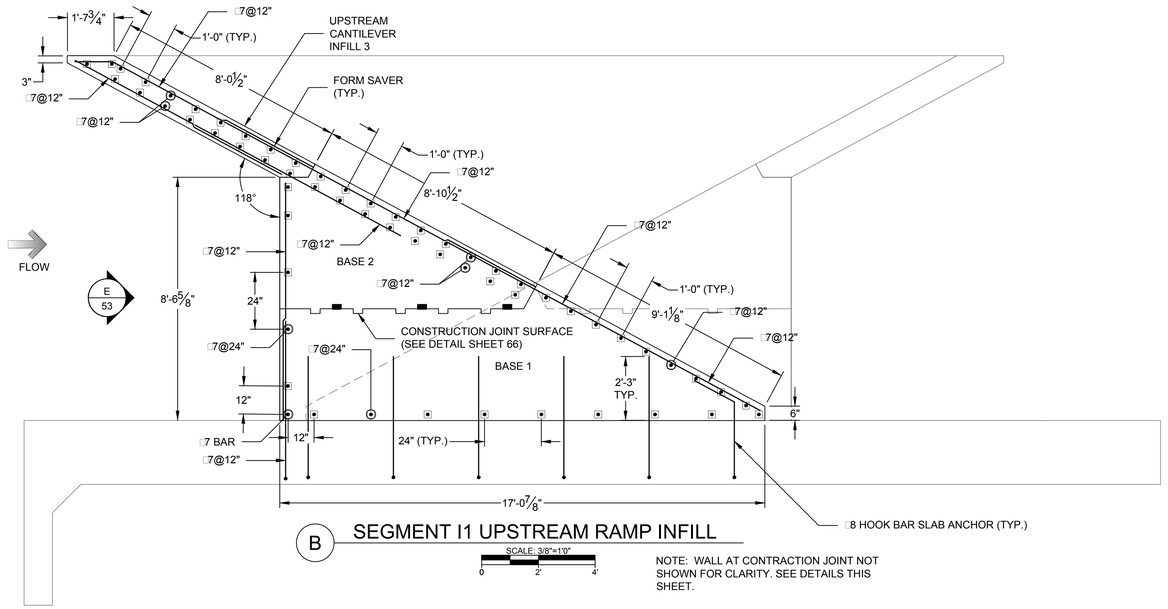
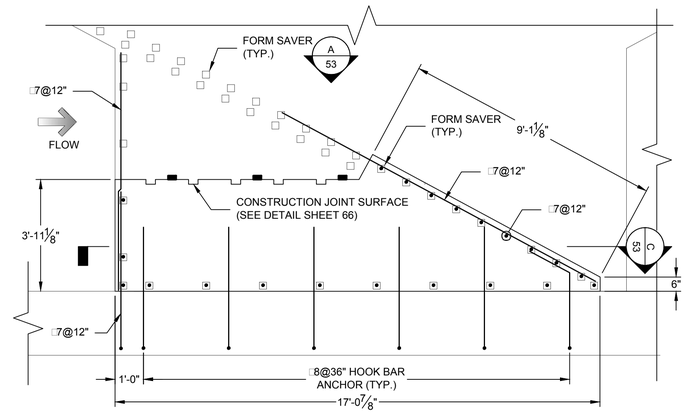


B SEGMENT I1 UPSTREAM RAMP INFILL

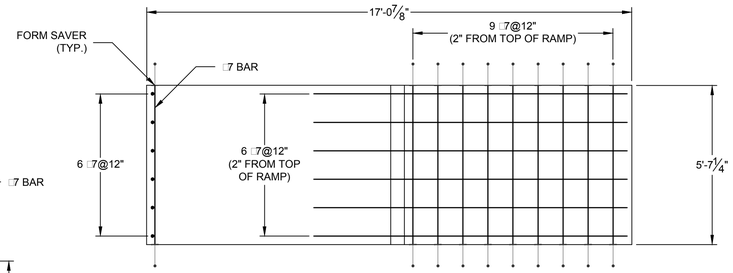
SCALE: 3/8"=1'0"

NOTE: WALL AT CONTRACTION JOINT NOT SHOWN FOR CLARITY. SEE DETAILS THIS SHEET.



2 SEGMENT I1 INFILL 1

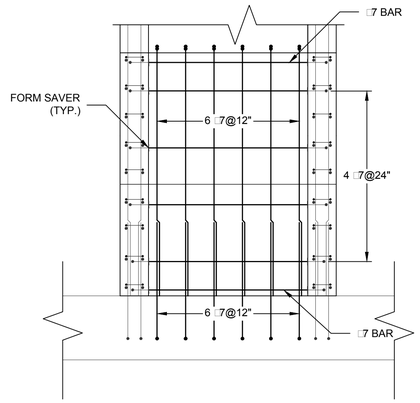
SCALE: 3/8"=1'0"



FLOW

A SEGMENT I1 INFILL BASE 1 PLAN

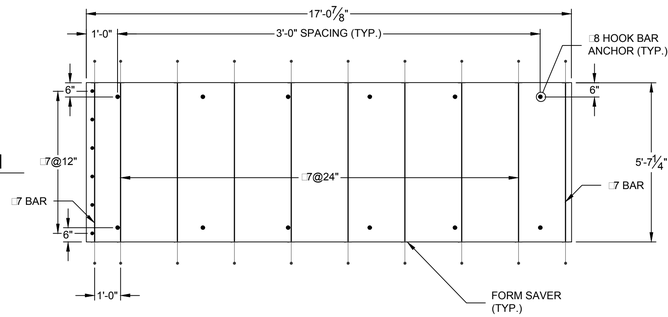
SCALE: 3/8"=1'0"



E SEGMENT I1 INFILL BASE ELEVATION

SCALE: 3/8"=1'0"

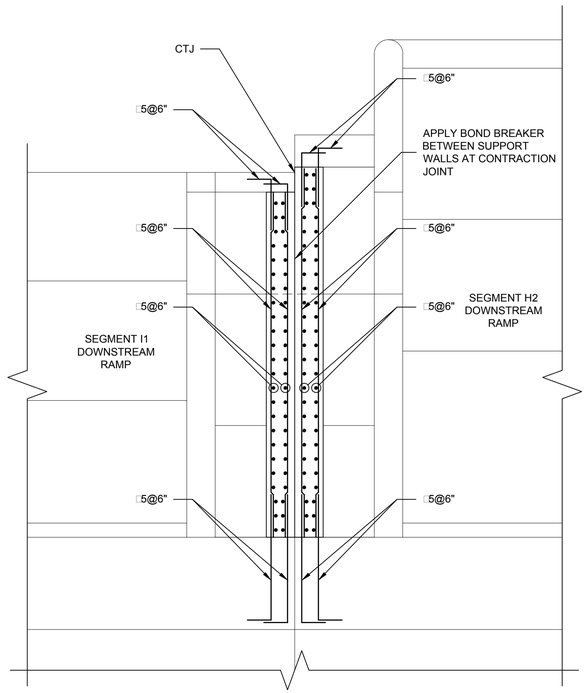
NOTE: FOR CONTRACTION JOINT BETWEEN PIANO KEY SEGMENTS I1 AND H2, PROVIDE 2-INCHES CLEARANCE FOR REINFORCEMENT EACH SIDE OF JOINT. (G2 AND H2 SIMILAR, BUT OPPOSITE)



FLOW

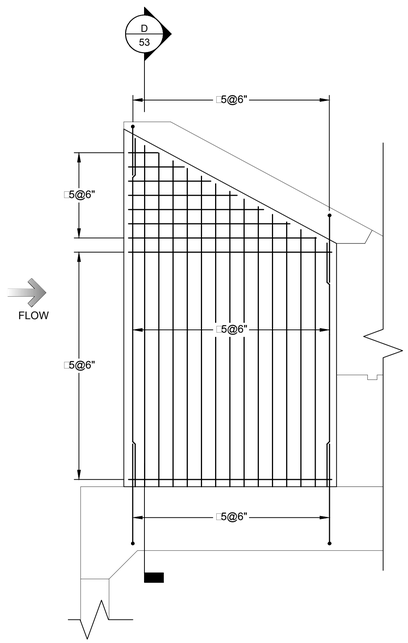
C SEGMENT I1 INFILL BASE 1 SECTION

SCALE: 3/8"=1'0"



D SEGMENT I1 SUPPORT WALL SECTION

SCALE: 3/8"=1'0"



1 SEGMENT I1 SUPPORT WALL AT CONTRACTION JOINT

BETWEEN SEGMENTS I1 AND H1

SCALE: 3/8"=1'0"

DESIGNED BY:	DRAWN BY:	DETAILED BY:	CHECKED BY:
JTD, JC	DWB, CBR	RPB, JRC	

RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685
DATE: 07/10/17

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

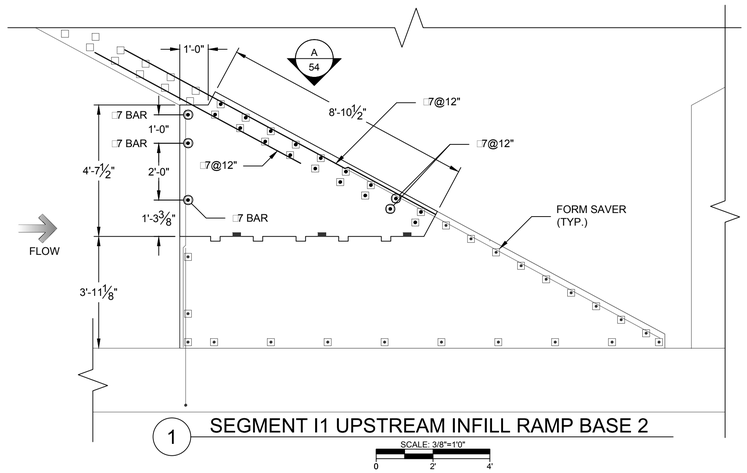
LOW STAGE UPSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET 53 OF 66

REV.	DESCRIPTION	DATE

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL PIANO KEY WEIR.DWG

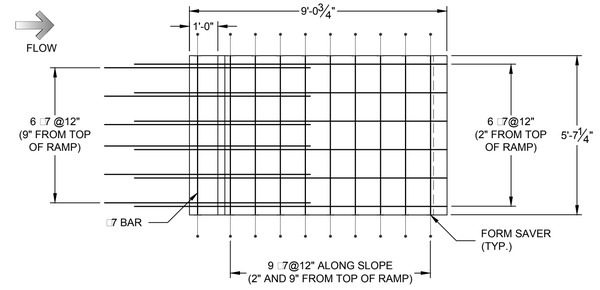
NOTE: FOR CONTRACTION JOINT BETWEEN PIANO KEY SEGMENTS I1 AND H2, PROVIDE 2-INCHES CLEARANCE FOR REINFORCEMENT EACH SIDE OF JOINT.



1 SEGMENT I1 UPSTREAM INFILL RAMP BASE 2

SCALE: 3/8"=1'0"

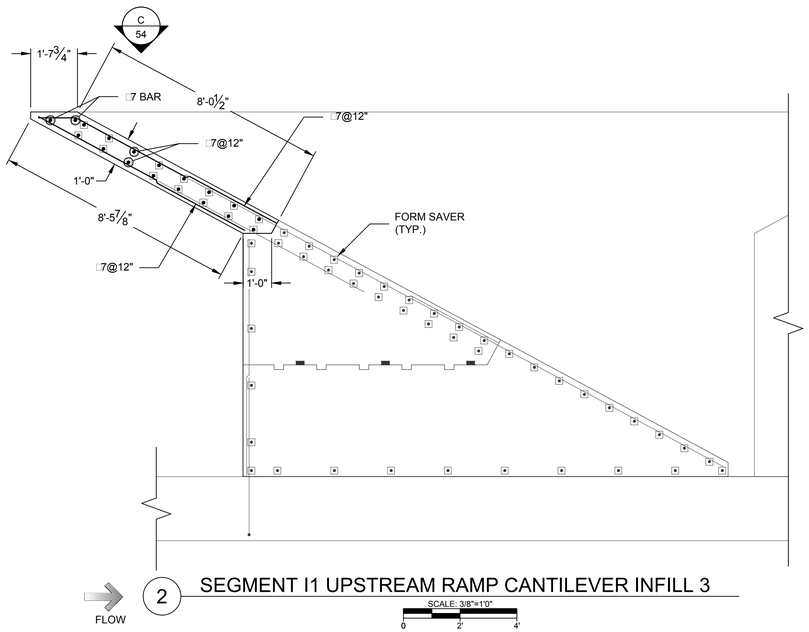
0 2' 4'



A SEGMENT I1 UPSTREAM INFILL RAMP BASE 2 PLAN

SCALE: 3/8"=1'0"

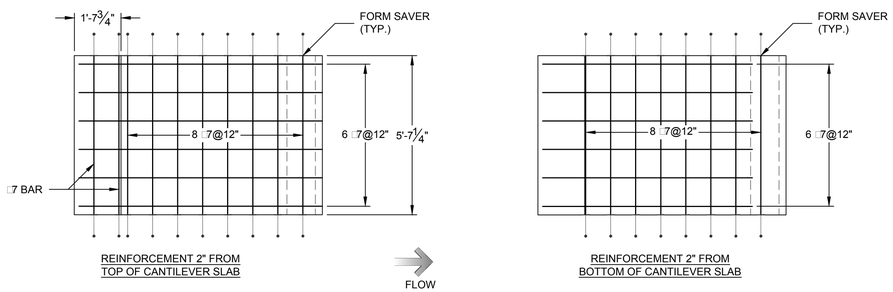
0 2' 4'



2 SEGMENT I1 UPSTREAM RAMP CANTILEVER INFILL 3

SCALE: 3/8"=1'0"

0 2' 4'



C SEGMENT I1 UPSTREAM RAMP CANTILEVER INFILL 3 PLAN

SCALE: 3/8"=1'0"

0 2' 4'

DESIGNED BY: JTD, JC
DRAWN BY: DWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

REGISTERED GEORGIA PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

LOW STAGE UPSTREAM RAMP REINFORCEMENT DETAILS SEGMENT I1

PROJECT: 16C17043.00

DATE: 07/10/2017

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REV	DESCRIPTION	DATE

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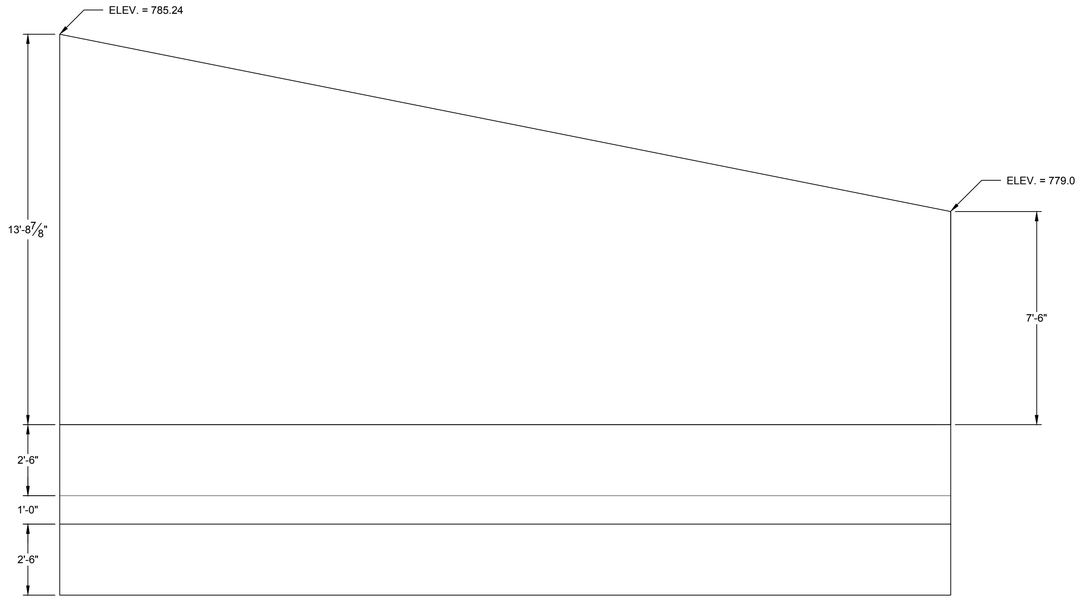
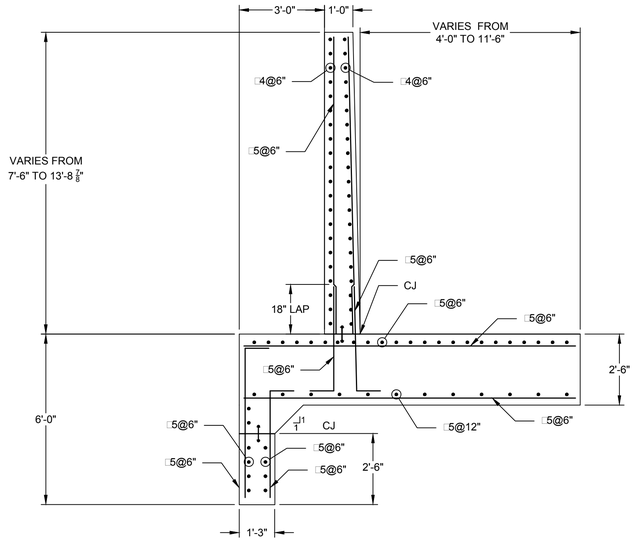


1 SEGMENT OW1 SIDEWALL ELEVATION

SCALE: 3/8"=1'0"

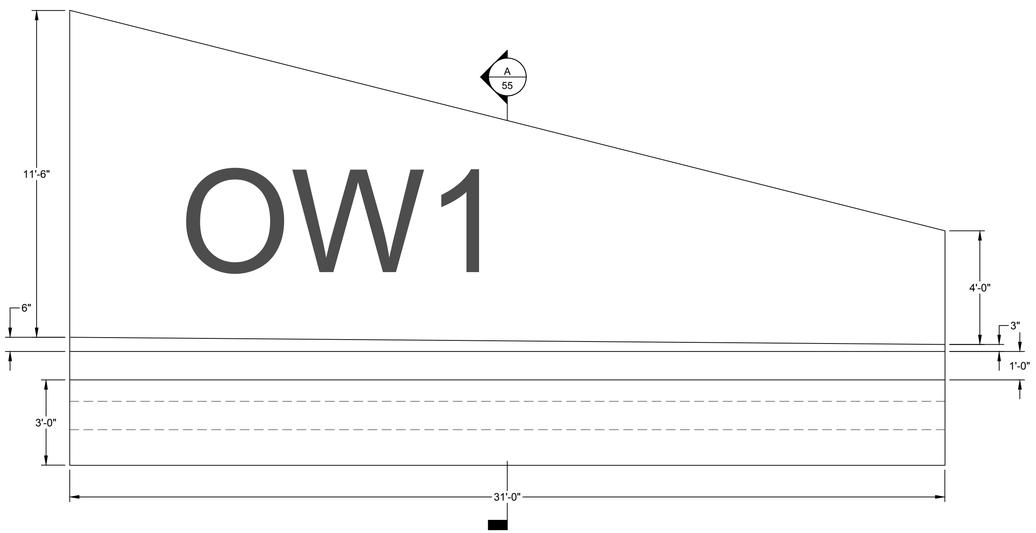
0 2' 4'



A SEGMENT OW1 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT OW1 SLAB PLAN

SCALE: 3/8"=1'0"

0 2' 4'

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GHB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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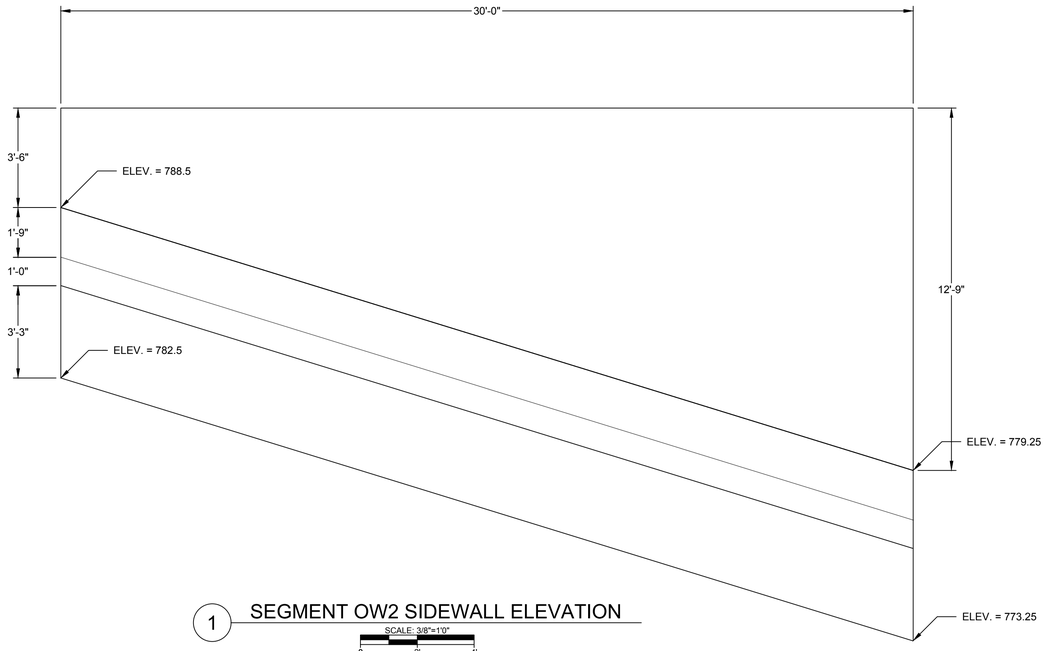
CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT OW1

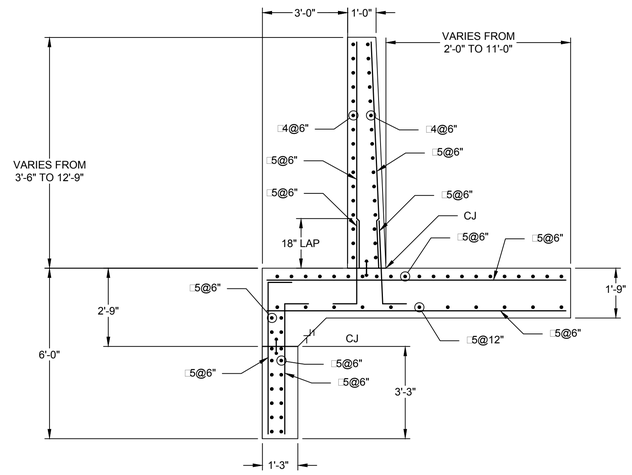
PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
55 OF 66



1 SEGMENT OW2 SIDEWALL ELEVATION

SCALE: 3/8"=1'0"

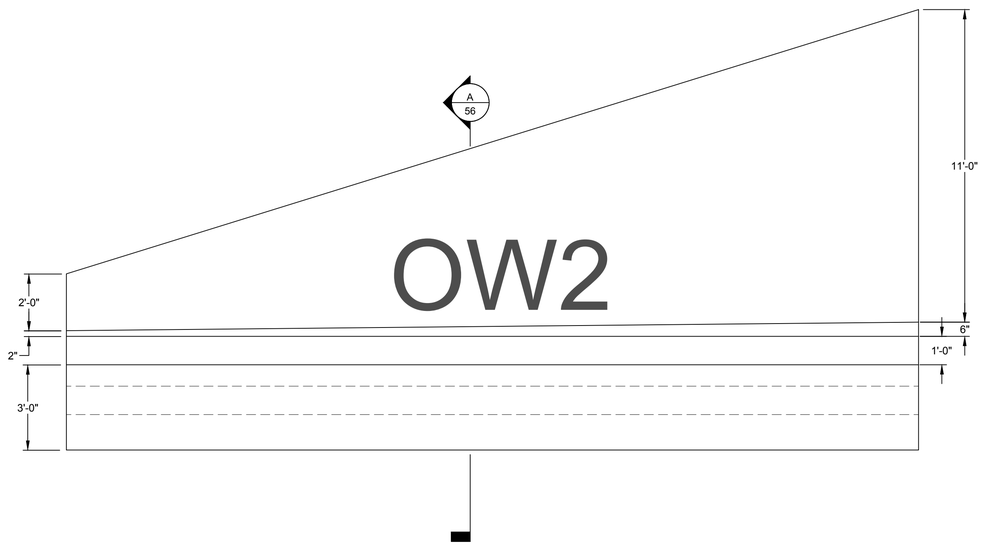
0 2' 4'



A SEGMENT OW2 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT OW2 SLAB PLAN

SCALE: 3/8"=1'0"

0 2' 4'

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CADD\RAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG

DATE	DESCRIPTION	REV.

DESIGNED BY: JTD, JC
DRAWN BY: DMB, JSR
CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

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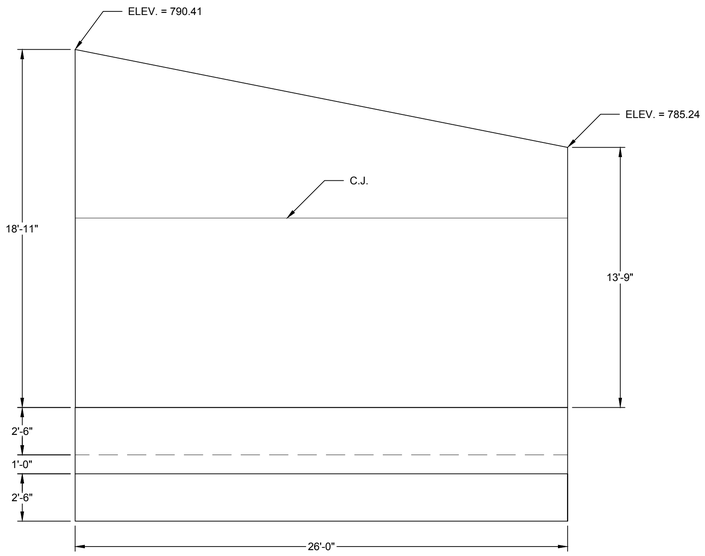
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
Phone: 770-781-8008 / Fax: 770-781-8003 /
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT OW2

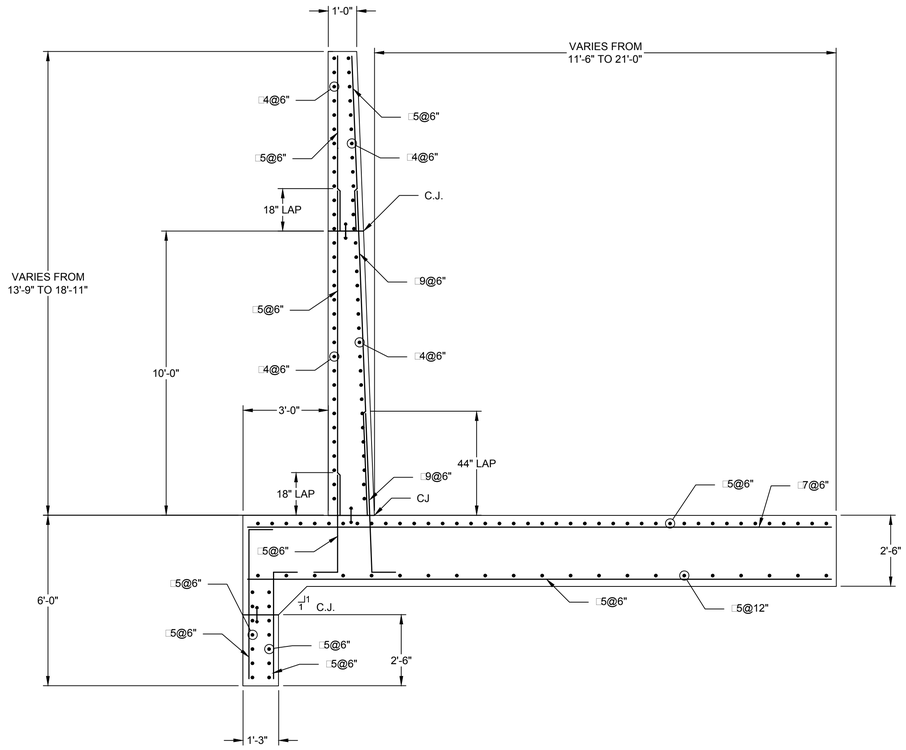
PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
56 OF 66



1 SEGMENT OW3 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"

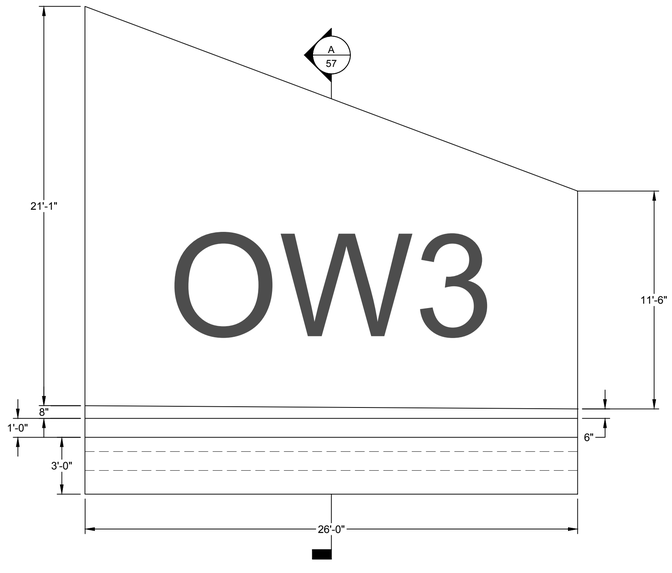
0 4' 8'



A SEGMENT OW3 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT OW3 SLAB PLAN

DESIGNED BY: JTD, JC
DRAWN BY: CMB, JSR
CHECKED BY: RPB, JPC
DATE: 07/10/17
RANDALL P. BASS, P.E.
GEORGIA PROFESSIONAL ENGINEER NO. 10685
REV. DESCRIPTION DATE

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT OW3

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
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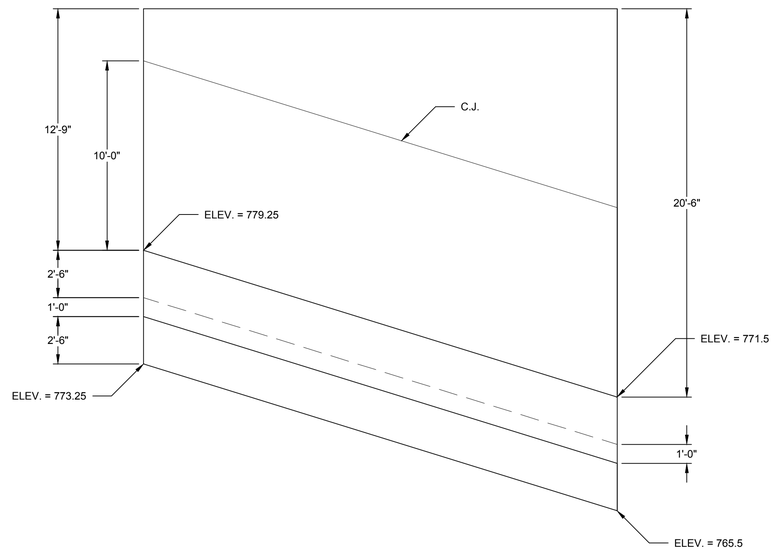
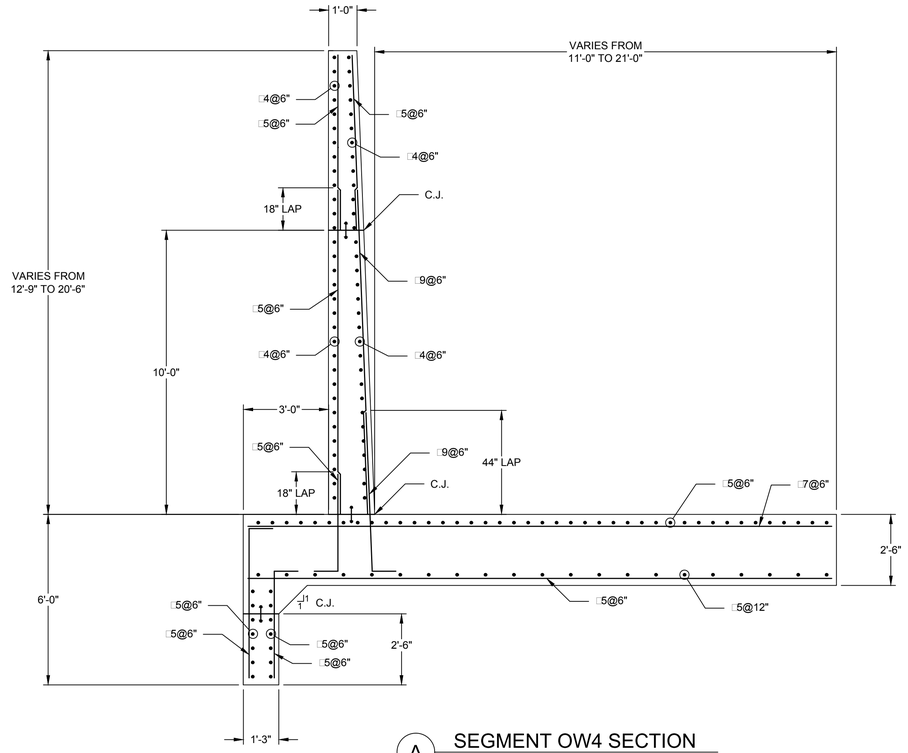
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



1 SEGMENT OW4 SIDEWALL ELEVATION

SCALE: 3/8"=1'0"

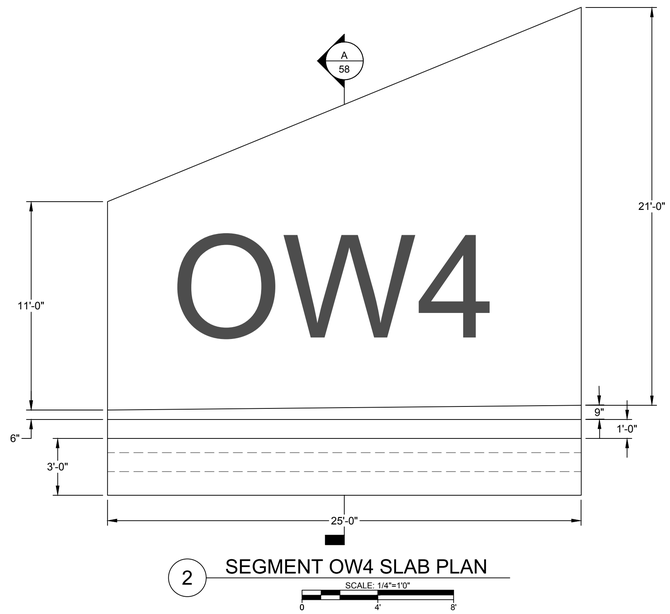
0 2' 4'



A SEGMENT OW4 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT OW4 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC

DRAWN BY: CWB, JSR

CHECKED BY: RPB, JPC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

REGISTERED GEORGIA No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT OW4

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
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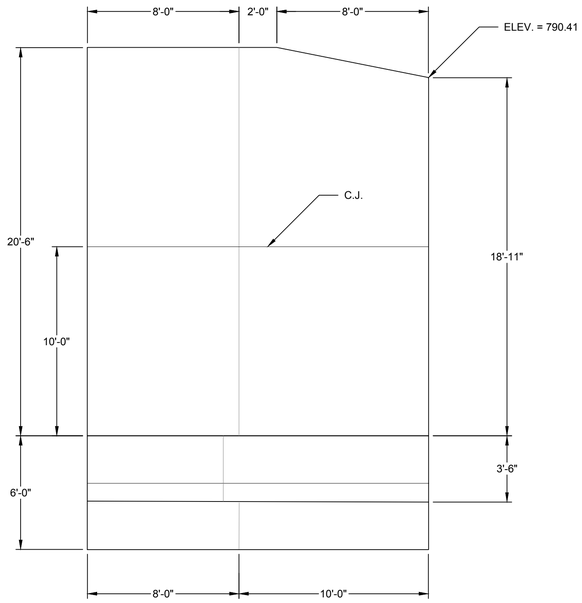
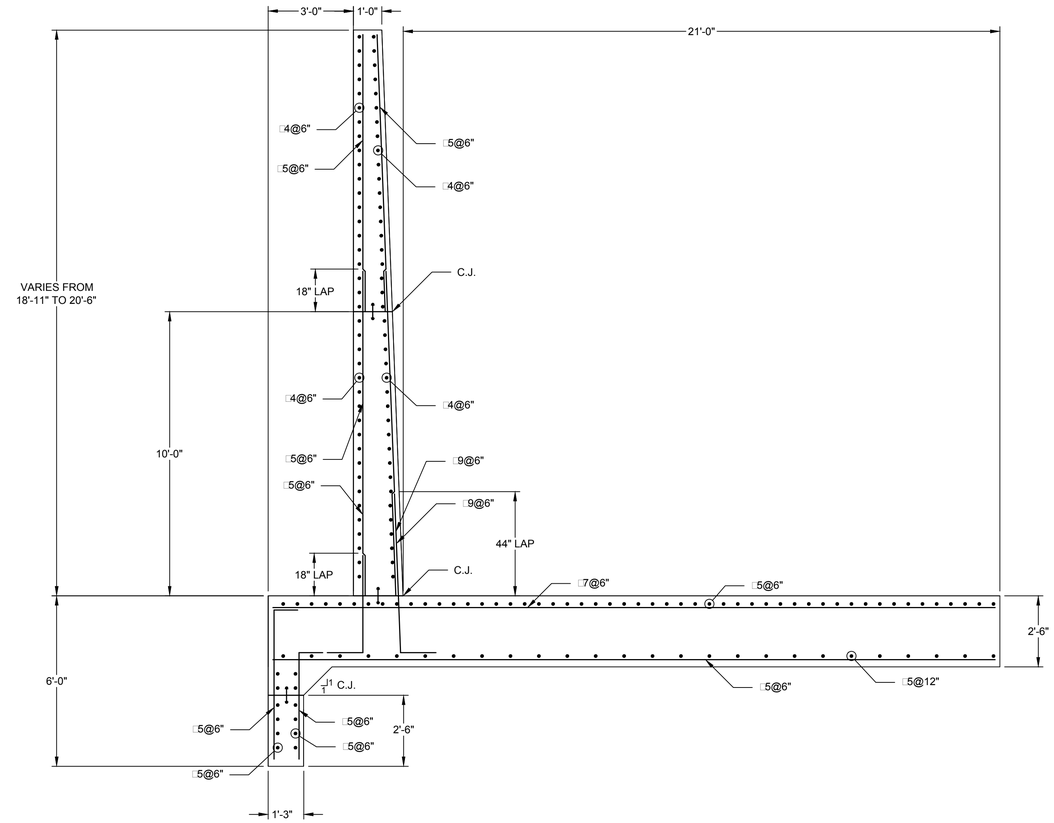
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



1 SEGMENT OW5 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"

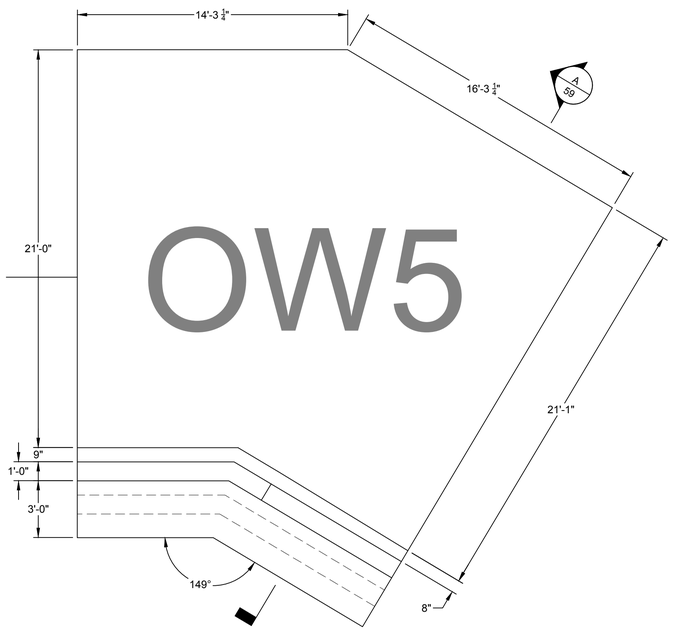
0 4' 8'



A SEGMENT OW5 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT OW5 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG

DESIGNED BY: JTD, JC	DRAWN BY: GAB, JSR	CHECKED BY: RPB, JAC	REV	DESCRIPTION	DATE

RANDALL P. BASS, P.E. DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

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PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT OW5

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
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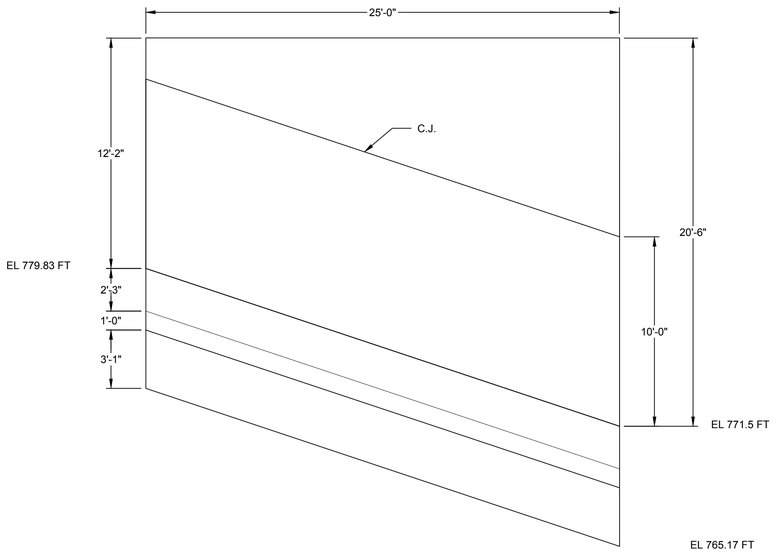
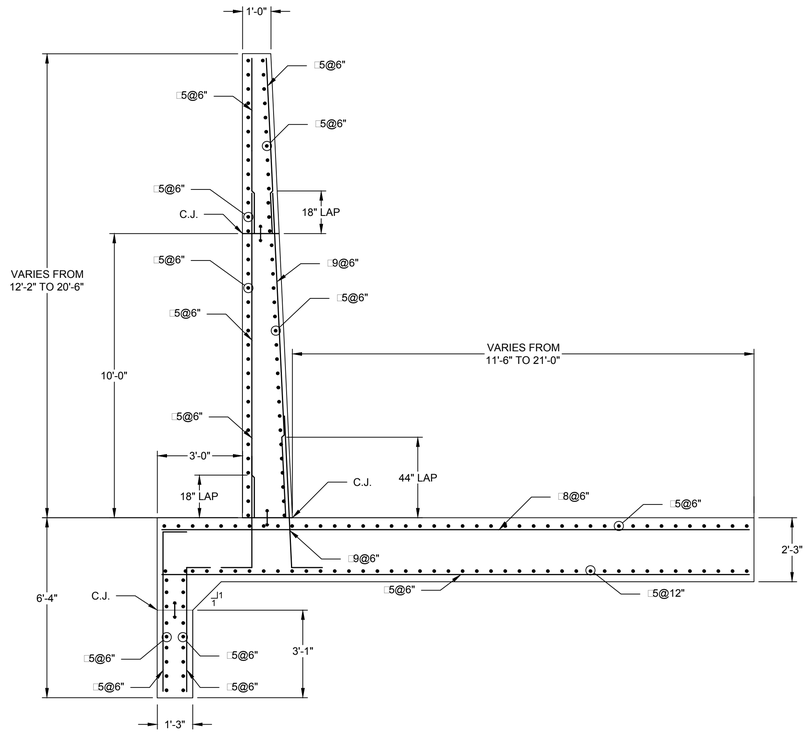


1 SEGMENT IW1 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"

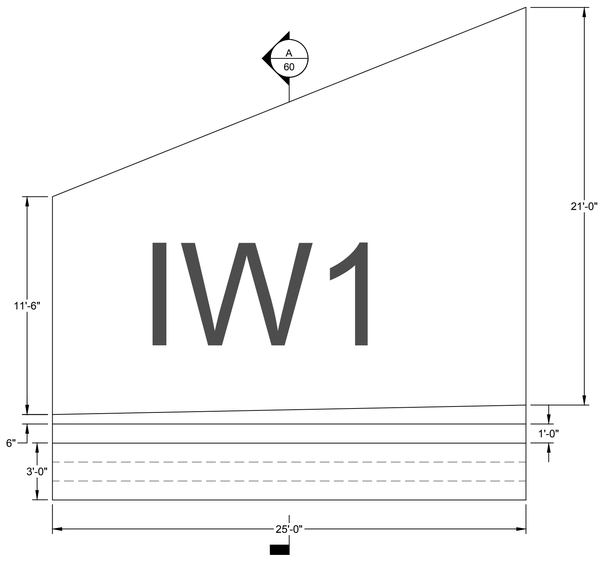
0 4' 8'



A SEGMENT IW1 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT IW1 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19685

GEORGIA REGISTERED No. 19685 PROFESSIONAL RANDALL P. BASS

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CONSTRUCTION PLANS FOR
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REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS
SEGMENT IW1

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
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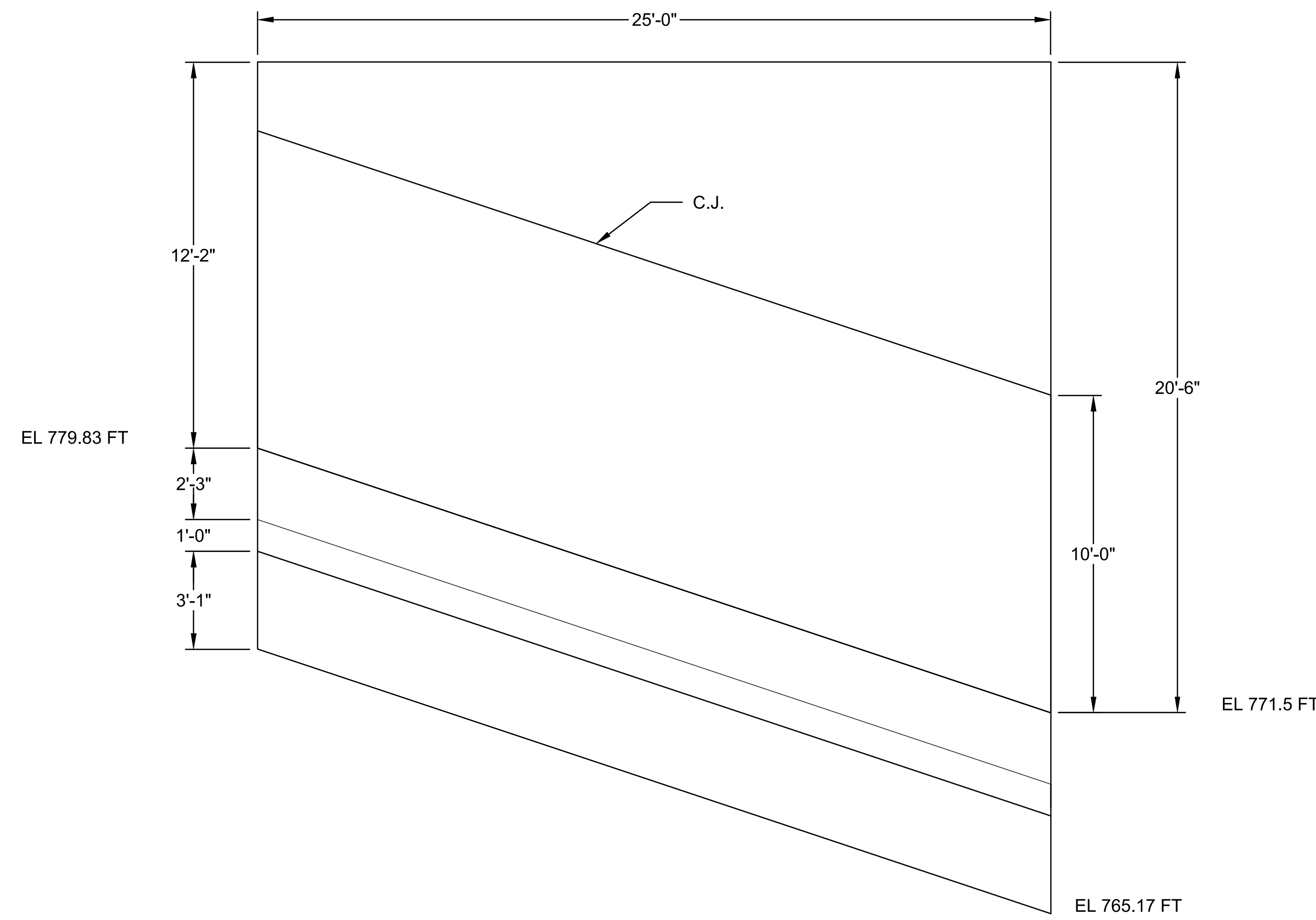
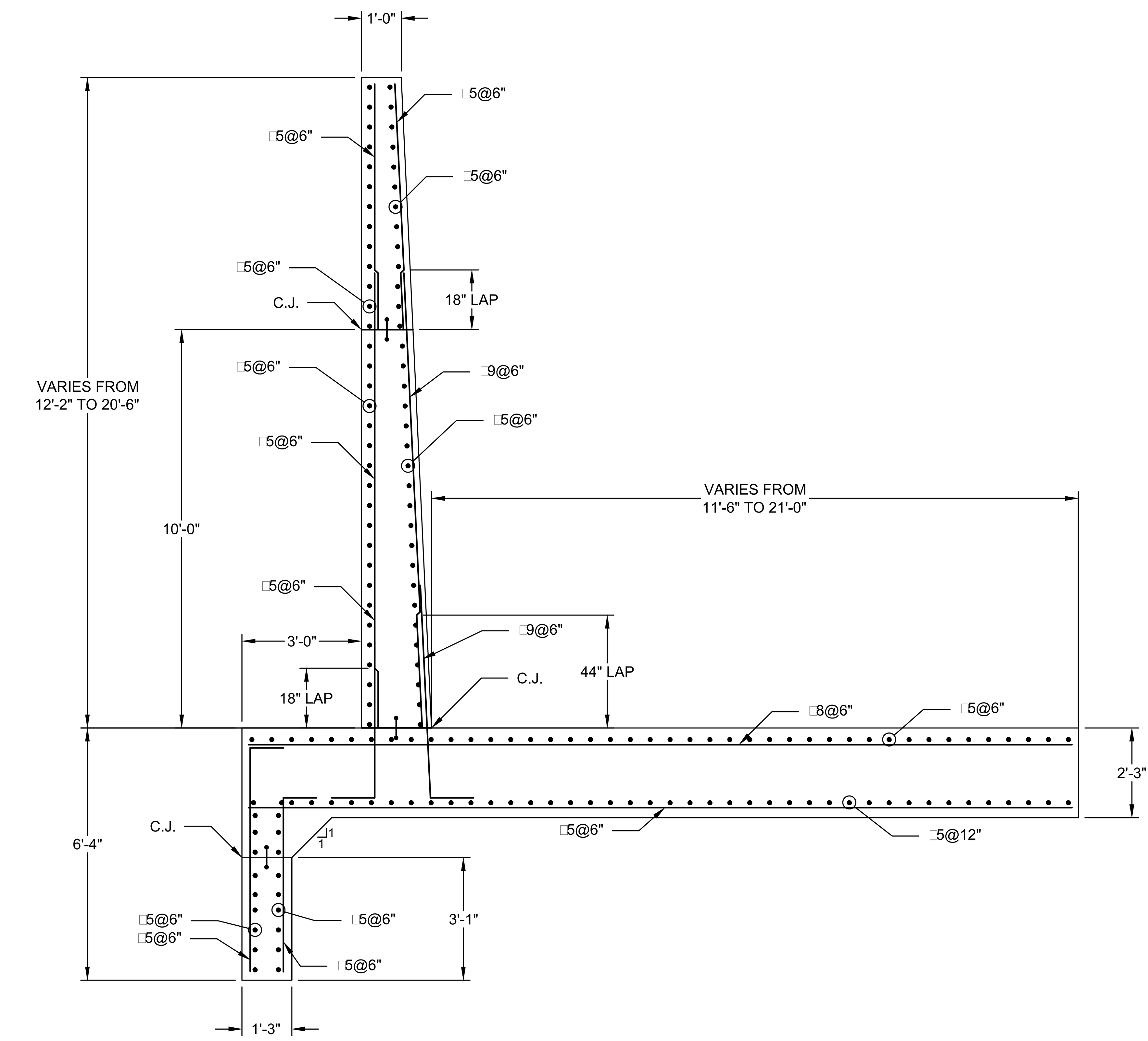
DATE	DESCRIPTION	REV

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



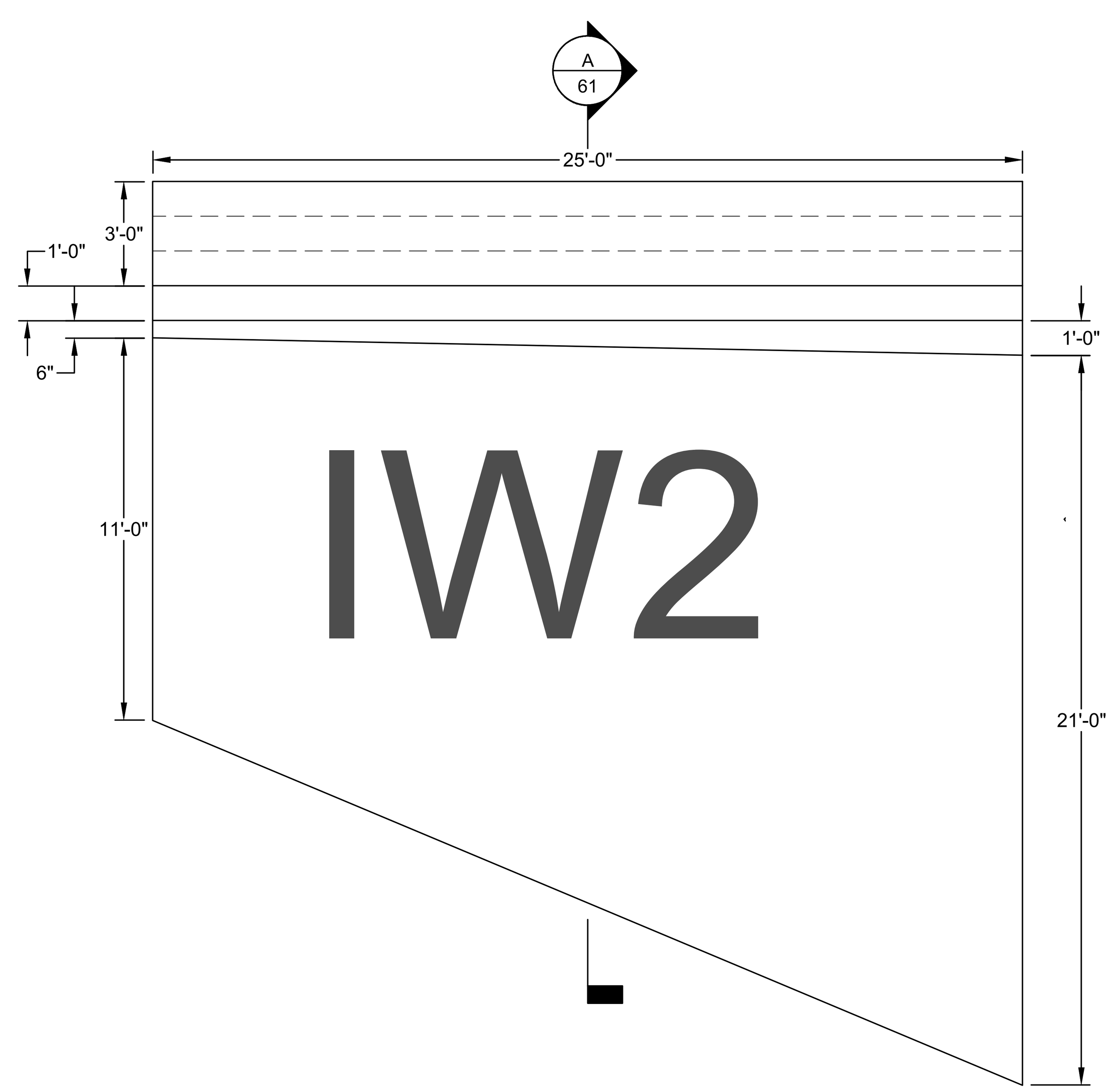
1 SEGMENT IW2 SIDEWALL ELEVATION

SCALE: 3/8"=1'0"



A SEGMENT IW2 SECTION

SCALE: 3/8"=1'0"



2 SEGMENT IW2 SLAB PLAN

SCALE: 3/8"=1'0"

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REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GHB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT IW2

PROJECT: 16C17043.00
DATE: 07/10/2017
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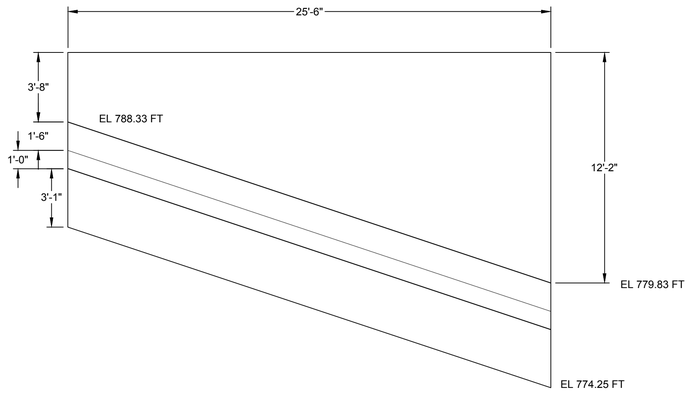
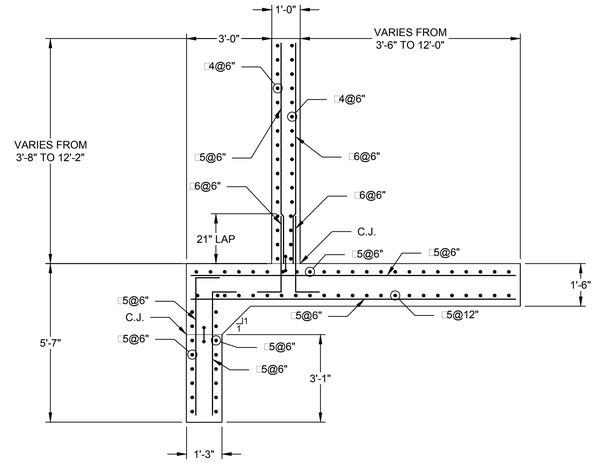


1 SEGMENT IW3 SIDEWALL ELEVATION

SCALE: 1/4"=1'0"

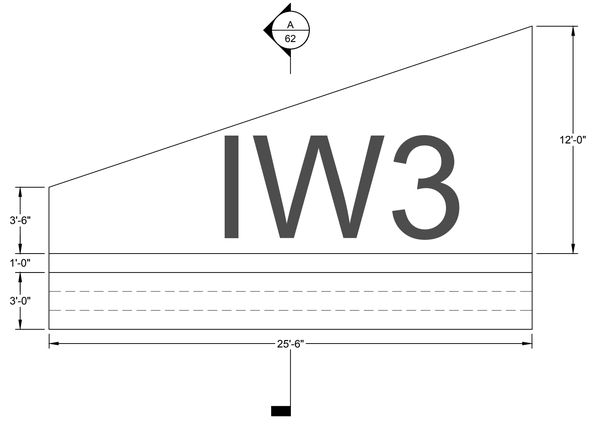
0 4' 8'



A SEGMENT IW3 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT IW3 SLAB PLAN

SCALE: 1/4"=1'0"

0 4' 8'

DESIGNED BY: JTD, JC
DRAWN BY: GWB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 19685

GEORGIA REGISTERED No. 19685 PROFESSIONAL ENGINEER RANDALL P. BASS

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PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS
SEGMENT IW3

PROJECT: 16C17043.00

DATE: 07/10/2017

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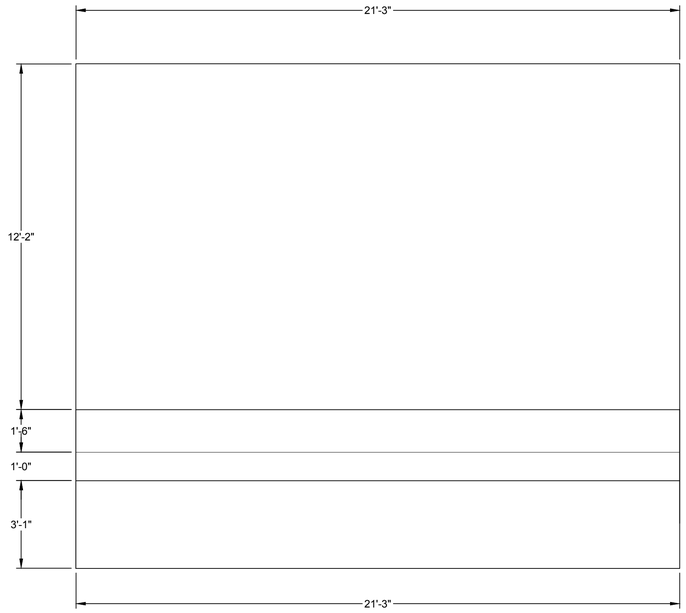
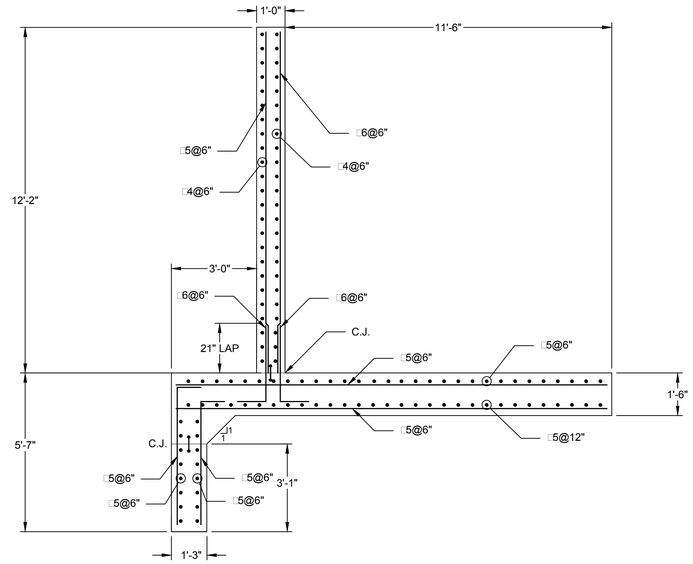
G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG



1 SEGMENT IW4 SIDEWALL ELEVATION

SCALE: 3/8"=1'0"

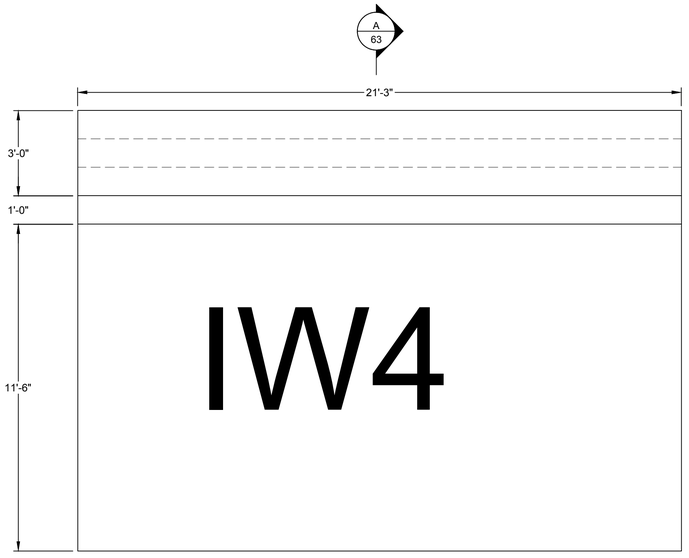
0 2' 4'



A SEGMENT IW4 SECTION

SCALE: 3/8"=1'0"

0 2' 4'



2 SEGMENT IW4 SLAB PLAN

SCALE: 3/8"=1'0"

0 2' 4'

DESCRIPTION	DATE

DESIGNED BY: JTD, JC

DRAWN BY: GWB, JSR

CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.

DATE: 07/10/17

GEORGIA PROFESSIONAL ENGINEER NO. 19685

REV

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19685 RANDALL P. BASS

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CONSTRUCTION PLANS FOR
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REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT IW4

PROJECT: 16C17043.00

DATE: 07/10/2017

SHEET
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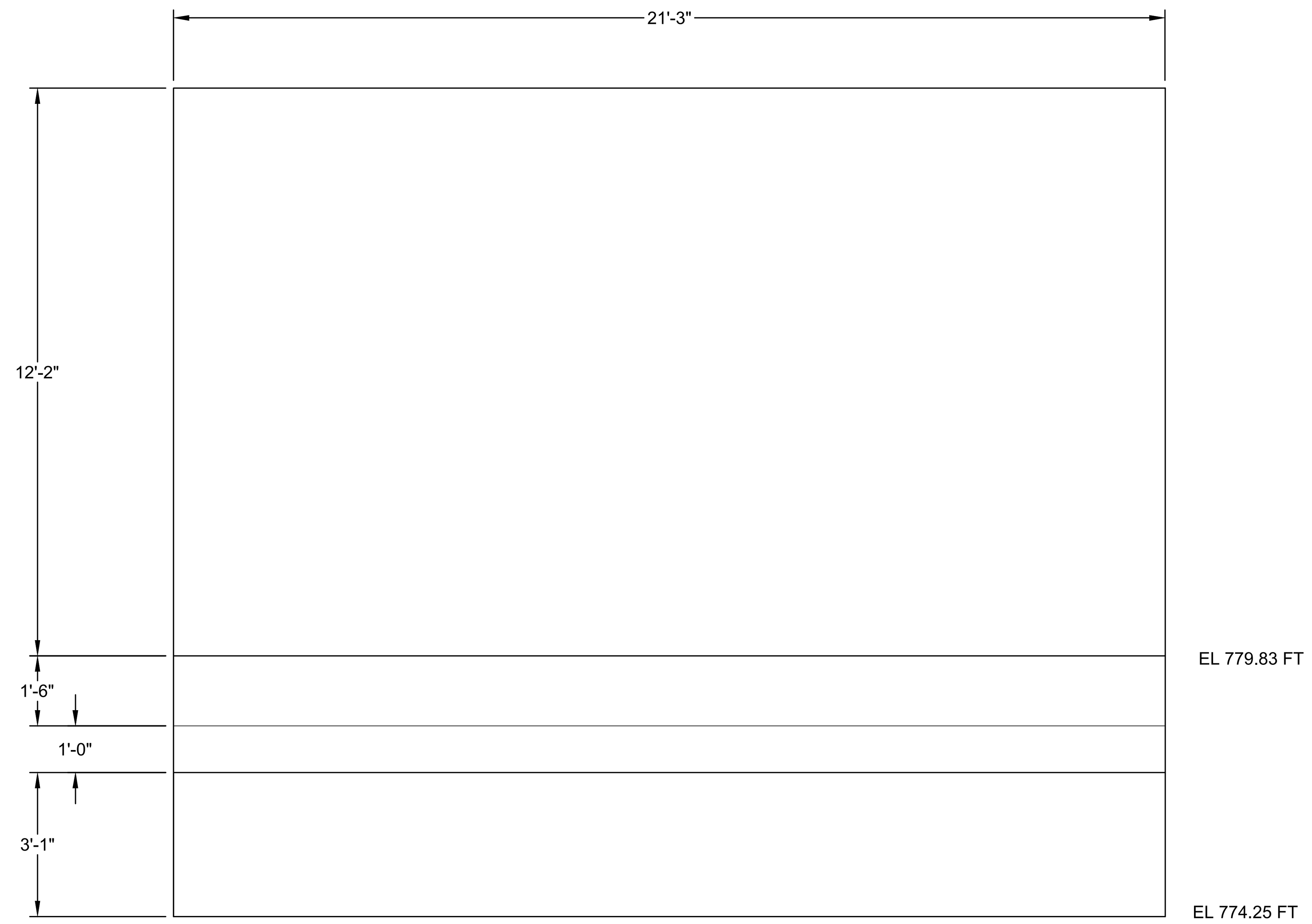
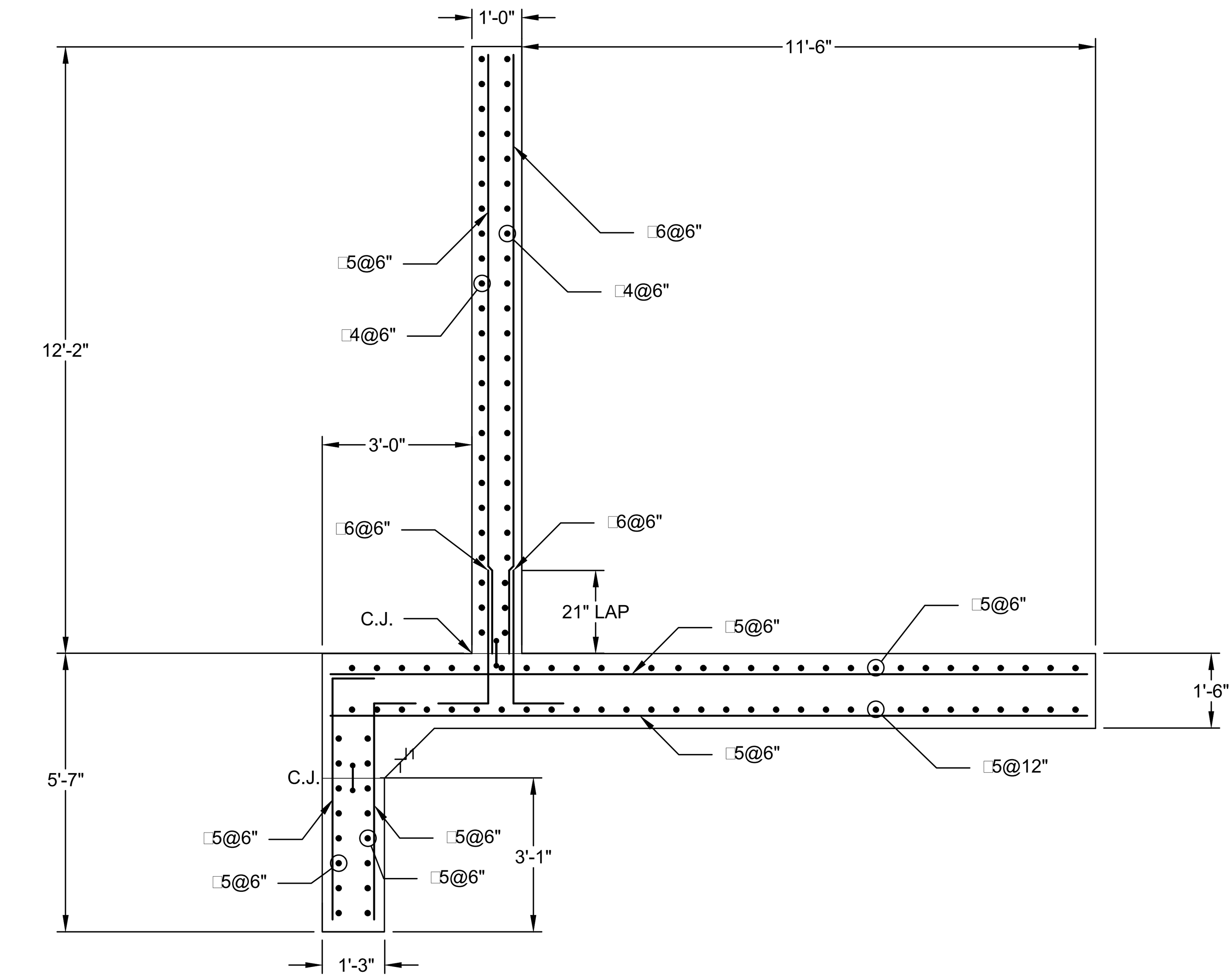


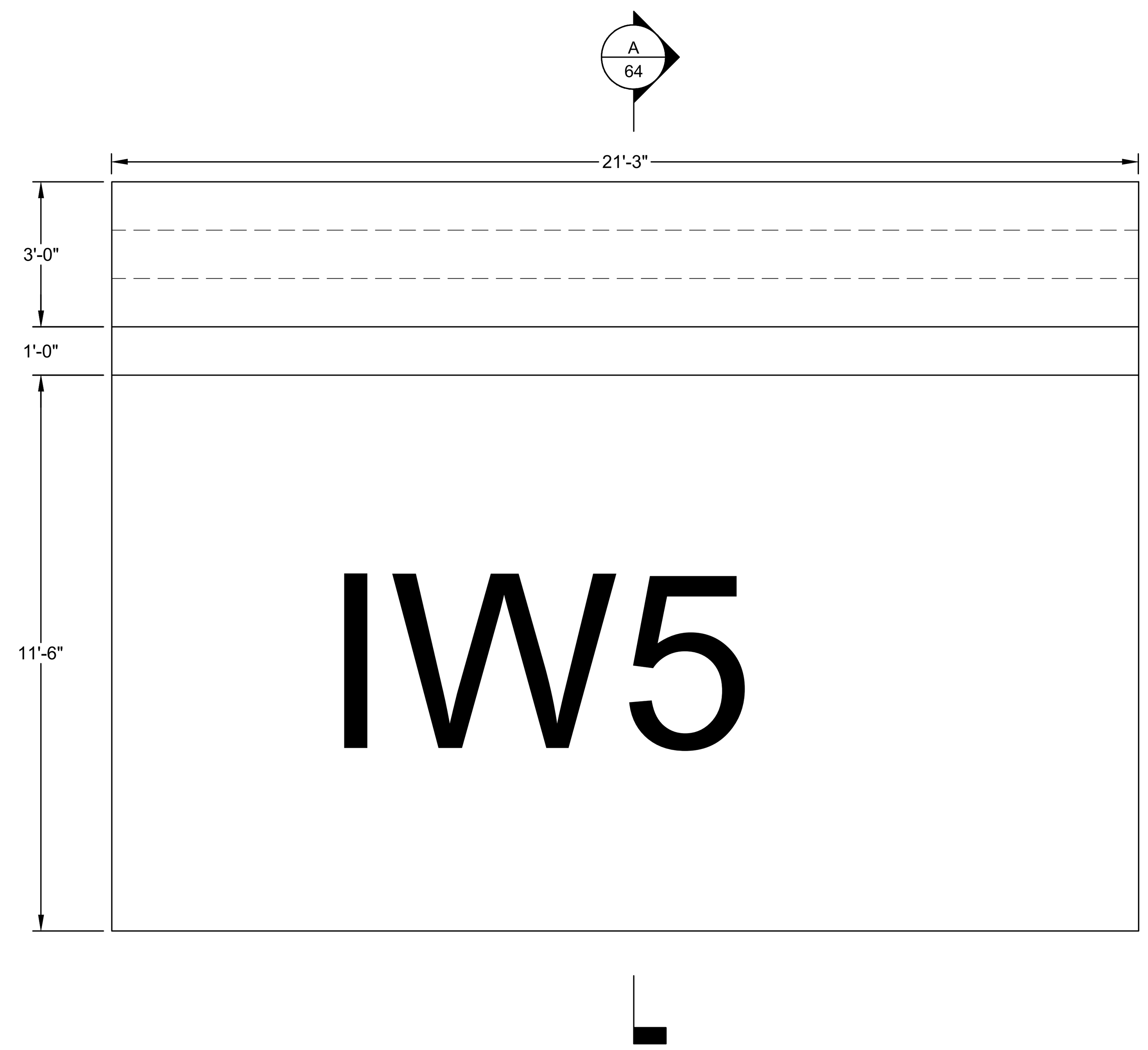
1 SEGMENT IW5 SIDEWALL ELEVATION

SCALE: 3/8"=1'0"



A SEGMENT IW5 SECTION

SCALE: 3/8"=1'0"



2 SEGMENT IW5 SLAB PLAN

SCALE: 3/8"=1'0"

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_STRUCTURAL.DWG

REV.	DESCRIPTION	DATE

DESIGNED BY: JTD, JC
DRAWN BY: GHB, JSR
CHECKED BY: RPB, JRC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 10685 RANDALL P. BASS

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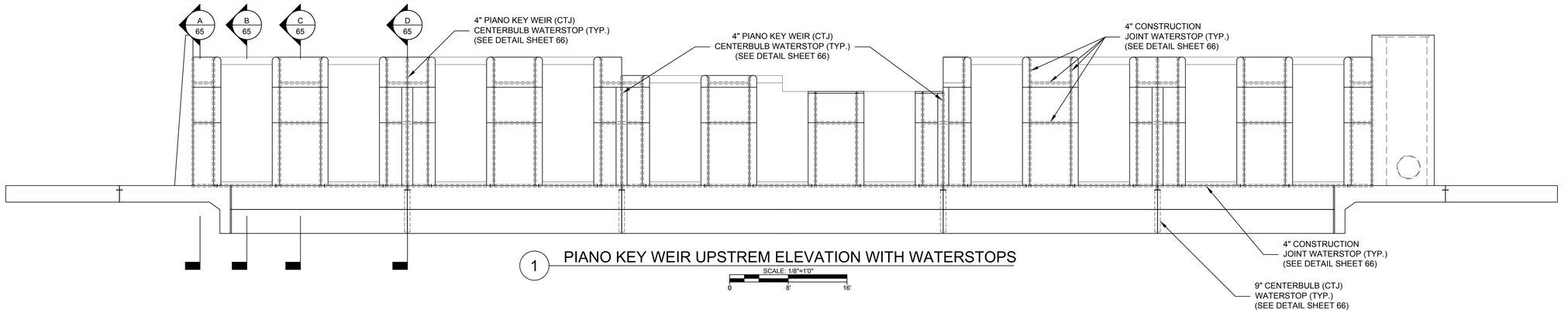
PEACHTREE CITY, GEORGIA

WALL AND SLAB DETAILS SEGMENT IW5

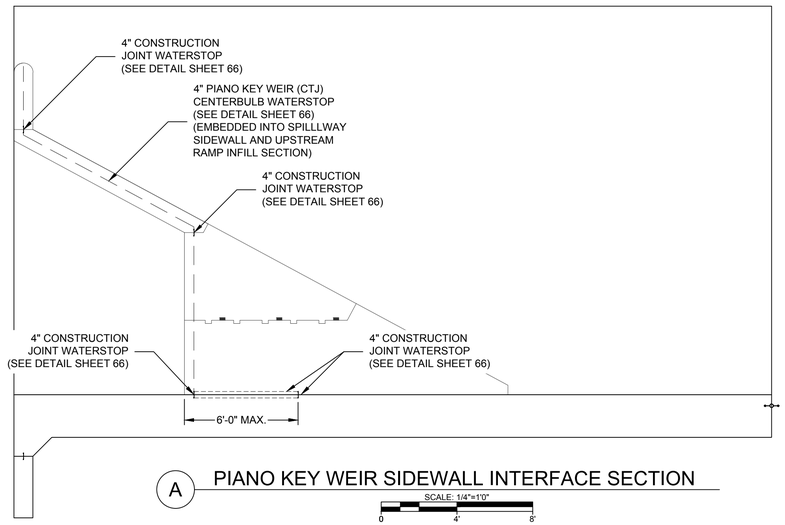
PROJECT: 16C17043.00
DATE: 07/10/2017



1 PIANO KEY WEIR UPSTREM ELEVATION WITH WATERSTOPS

SCALE: 1/8"=1'0"

0 8' 16'

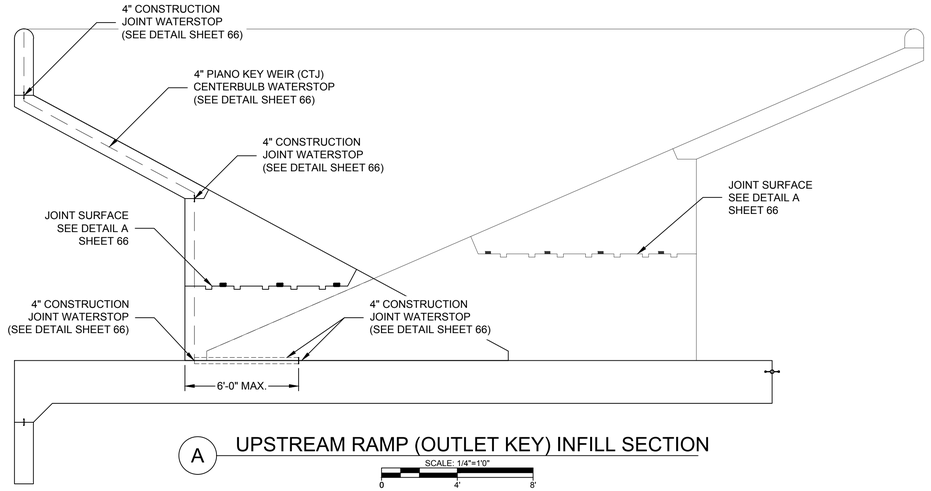


A PIANO KEY WEIR SIDEWALL INTERFACE SECTION

SCALE: 1/4"=1'0"

0 4' 8'

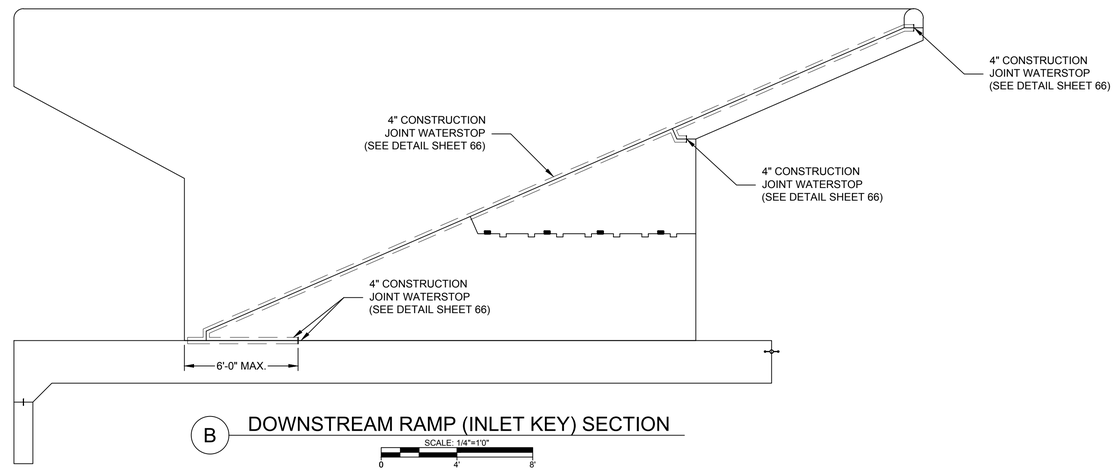
NOTE: WATERSTOP CONFIGURATION AND GEOMETRY TYPICAL ACROSS ALL STAGES AND SEGMENTS.



A UPSTREAM RAMP (OUTLET KEY) INFILL SECTION

SCALE: 1/4"=1'0"

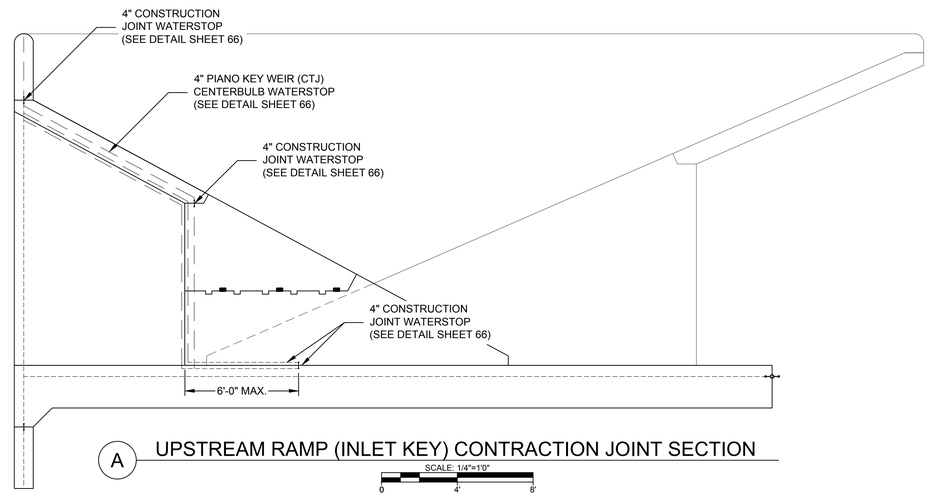
0 4' 8'



B DOWNSTREAM RAMP (INLET KEY) SECTION

SCALE: 1/4"=1'0"

0 4' 8'



A UPSTREAM RAMP (INLET KEY) CONTRACTION JOINT SECTION

SCALE: 1/4"=1'0"

0 4' 8'

REV	DESCRIPTION	DATE

DESIGNED BY: JTD/AJC
DRAWN BY: CH/BKS/ER
CHECKED BY: RPB/AJC

RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685

GEORGIA
No. 10685
PROFESSIONAL ENGINEER
RANDALL P. BASS

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CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

JOINT DETAILS

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
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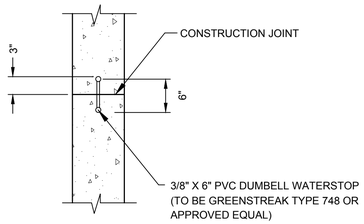
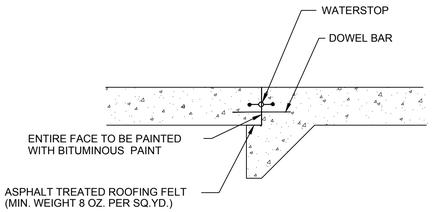


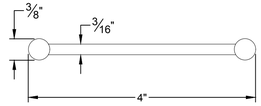
SIDEWALL CONSTRUCTION JOINT WATERSTOP

N.T.S.



TRANSVERSE SLAB CONTRACTION JOINT

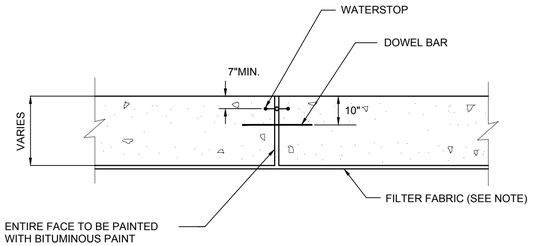
N.T.S.



CONSTRUCTION JOINT WATERSTOP

N.T.S.

NOTE:
1. MINIMUM RADIUS OF BENDS AROUND CORNERS SHALL BE 9". AT NO POINT IN BEND, HOWEVER, SHALL WATERSTOP BE CLOSER THAN 2" TO FACE OF CONCRETE.
2. MAINTAIN A CLEARANCE OF AT LEAST 1" BETWEEN WATERSTOP AND REINFORCING STEEL.
3. WATERSTOP SHALL BE SIKA □741, OR APPROVED EQUAL.

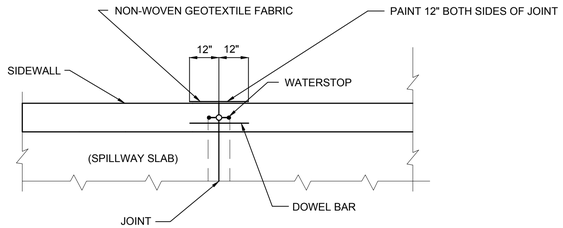


LONGITUDINAL SLAB CONTRACTION JOINT

N.T.S.

NOTE: FILTER FABRIC CALLED OUT ON THIS SHEET REFERS TO NON-WOVEN, POLYETHYLENE FIBER FILTER FABRIC.

NOTE: BITUMINOUS PAINT AND ROOFING FELT SHOULD BE SUBMITTED TO AND APPROVED BY ENGINEER PRIOR TO PLACEMENT.

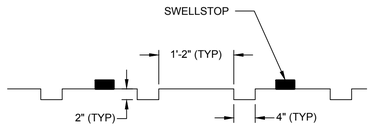


TRANSVERSE SIDEWALL CONTRACTION JOINT

N.T.S.

SIDEWALL JOINT NOTES:

1. GEOTEXTILE FABRIC AND BITUMINOUS PAINT USED TO ADHERE FABRIC TO SIDEWALL SHALL EXTEND FROM THE BOTTOM OF THE FOOTING TO THE LEVEL OF THE FINISHED GRADE. ANY FABRIC OR BITUMINOUS PAINT EXPOSED TO VIEW AFTER BACKFILLING OF THE WALLS IS COMPLETED SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE ENGINEER.
2. VERTICAL WATERSTOP IN SIDEWALLS TO EXTEND TO 3" FROM TOP OF SIDEWALL.

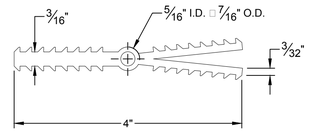


NOTE:

JOINT SURFACE SHALL BE "GREEN CUT" WITH A PRESSURE WASHER HAVING A MINIMUM RATING OF 3000 PSI

A JOINT SURFACE DETAIL

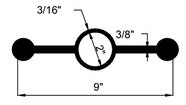
N.T.S



PIANO KEY WIER CONTRACTION JOINT WATERSTOP

N.T.S.

NOTE:
1. WATERSTOP SHALL EXTEND FROM FLOOR INTO SIDEWALLS. MINIMUM RADIUS OF BENDS AROUND CORNERS SHALL BE 9". AT NO POINT IN BEND, HOWEVER, SHALL WATERSTOP BE CLOSER THAN 2" TO FACE OF CONCRETE.
2. MAINTAIN A CLEARANCE OF AT LEAST 1" BETWEEN WATERSTOP, REINFORCING STEEL, AND DOWEL BARS.
3. WATERSTOP SHALL BE SIKA □721, OR APPROVED EQUAL.



CONTRACTION JOINT WATERSTOP

N.T.S.

NOTE:
1. WATERSTOP SHALL EXTEND FROM FLOOR INTO SIDEWALLS. MINIMUM RADIUS OF BENDS AROUND CORNERS SHALL BE 9". AT NO POINT IN BEND, HOWEVER, SHALL WATERSTOP BE CLOSER THAN 2" TO FACE OF CONCRETE.
2. MAINTAIN A CLEARANCE OF AT LEAST 1" BETWEEN WATERSTOP, REINFORCING STEEL, AND DOWEL BARS.
3. WATERSTOP SHALL BE SIKA □754, OR APPROVED EQUAL.

DESIGNED BY: JTD/AJC
DRAWN BY: CHB/DSR
CHECKED BY: RPB/AJC
RANDALL P. BASS, P.E.
DATE: 07/10/17
GEORGIA PROFESSIONAL ENGINEER NO. 10685
REV. DESCRIPTION DATE

GEORGIA REGISTERED No. 10685 PROFESSIONAL ENGINEER RANDALL P. BASS

Schnabel ENGINEERING
6445 Shiloh Road, Suite A / Alpharetta, GA 30005 /
Phone: 770-781-8008 / Fax: 770-781-8003 /
schnabel-eng.com

CONSTRUCTION PLANS FOR
LAKE PEACHTREE SPILLWAY
REPLACEMENT PROJECT
PEACHTREE CITY, GEORGIA

JOINT DETAILS

PROJECT: 16C17043.00
DATE: 07/10/2017
SHEET
66 OF 66

G:\2016 PROJECTS\16C17043.00 LAKE PEACHTREE DAM FINAL DESIGN\03-SE PRODUCTS\08-CAD\DRAWINGS\05-FINAL_DESIGN\LPT_JOINT DETAILS.DWG

GENERAL NOTES:

1. OWNER / DEVELOPER:

PEACHTREE CITY
151 WILLOWBEND RD
PEACHTREE CITY, GA 30289
770-487-7657

2. ENGINEER/SURVEYOR:

INTEGRATED SCIENCE & ENGINEERING, INC.
1039 SULLIVAN RD, SUITE 200
NEWNAN, GA 30265
CONTACT: DAN DAVIS 678-552-2106

EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES:

1. 24-HOUR EROSION CONTROL CONTACT: DAN DAVIS, 678-552-2106 (#4)
2. DISTURBED AREA: 4.9 AC.; TOTAL SITE AREA: 4.9 ACRES (#3) (#6)
3. **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.** (#19)
4. **EROSION CONTROL MEASURES MUST BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.** (#20)
5. ALL EROSION CONTROL MEASURES ARE TO CONFORM TO THE STANDARDS SET FORTH IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 2016 EDITION.
6. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS. IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL 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 DEVELOPER IMMEDIATELY!
7. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.** (#21)
8. SEDIMENT CONTROL MEASURES MUST BE INSTALLED BEFORE CLEARING AND GRADING BEGINS.
9. INSPECTIONS BY CERTIFIED PERSONNEL PROVIDED BY PRIMARY PERMITEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH NPDES PERMIT NUMBER GAR 100001.
10. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION. (#14)
11. 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. (#15)
12. AMENDMENTS / REVISIONS TO THE ES&PC PLAN THAT HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. (#17)
13. THE PRIMARY PERMITTEE IS REQUIRED KEEP THE ES&PC PLAN UP-TO-DATE.
14. NO STATE WATERS ARE PRESENT WITHIN THE DEVELOPABLE AREA OF THIS PROJECT SITE.
15. NO WETLANDS ARE PRESENT WITHIN THE DEVELOPABLE AREA OF THIS PROJECT SITE. (#18)
16. WASTE MATERIALS SHALL NOT BE DISCHARGED TO STATE WATERS EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
17. THE ES&PC PLAN IS IN COMPLIANCE WITH ALL CURRENT WASTE DISPOSAL, SANITARY SEWER, AND/OR SEPTIC TANK REGULATIONS.
18. ALL SOD PLACED ON SLOPES 3:1 OR STEEPER SHALL BE STAPLED IN A MANNER THAT PREVENTS THE SOD FROM SLIDING.
19. NO ALTERNATIVE BMP'S WERE USED IN THE DESIGN OF THE ES&PC PLAN.
20. NO CONSTRUCTION ACTIVITY WILL DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.
21. 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: NAME: MR. DAN DAVIS; PHONE # : 678-552-2106.

(#5) **Primary Permittee**
DEVELOPER:

PEACHTREE CITY
151 WILLOWBEND RD
PEACHTREE CITY, GA 30289
770-487-7657

Contact:
NAME: DAVID BORKOWSKI, CITY ENGINEER
PHONE: 770-631-2538

Certified Personnel
CIVIL ENGINEER:

INTEGRATED SCIENCE & ENGINEERING
1039 SULLIVAN ROAD, SUITE 200
NEWNAN, GA 30265

Contact:
DAN DAVIS
PHONE: 678-552-2106

Engineer Certification (#12)(#13)

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my supervision.

"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," (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. GAR 100001."

Design professional of record shall inspect the site within 7 days of the construction start. The primary permittee shall notify the design professional of the construction start date prior to that start date.

DATE: 7/7/2017

LAWRENCE H. DAVIS, JR., P.E. #: 19888 GSWCC#: 0000016514

Permittee Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

PERMITTEE DATE

(#28) *SITEWORK ACTIVITY SCHEDULE*
(ANTICIPATED START DATE - AUGUST 2017)

ITEM	MONTH 1	2	3	4	5	6	7	8	9			
INITIAL EROSION CONTROL INSTALLATION	■											
GRADING/CLEARING COFFERDAM CONST.	■	■										
DEMO		■										
SPILLWAY CONSTRUCTION			■	■	■	■	■	■				
APPLICATION OF TEMPORARY GRASSING		■	■	■	■	■						
EROS. CONT.	■	■	■	■	■	■	■	■	■			
MAINTENANCE OF ES&PC BMP'S	■	■	■	■	■	■	■	■	■			
LANDSCAPING									■			
APPLICATION OF PERMANENT GRASSING									■			

SHEET INDEX

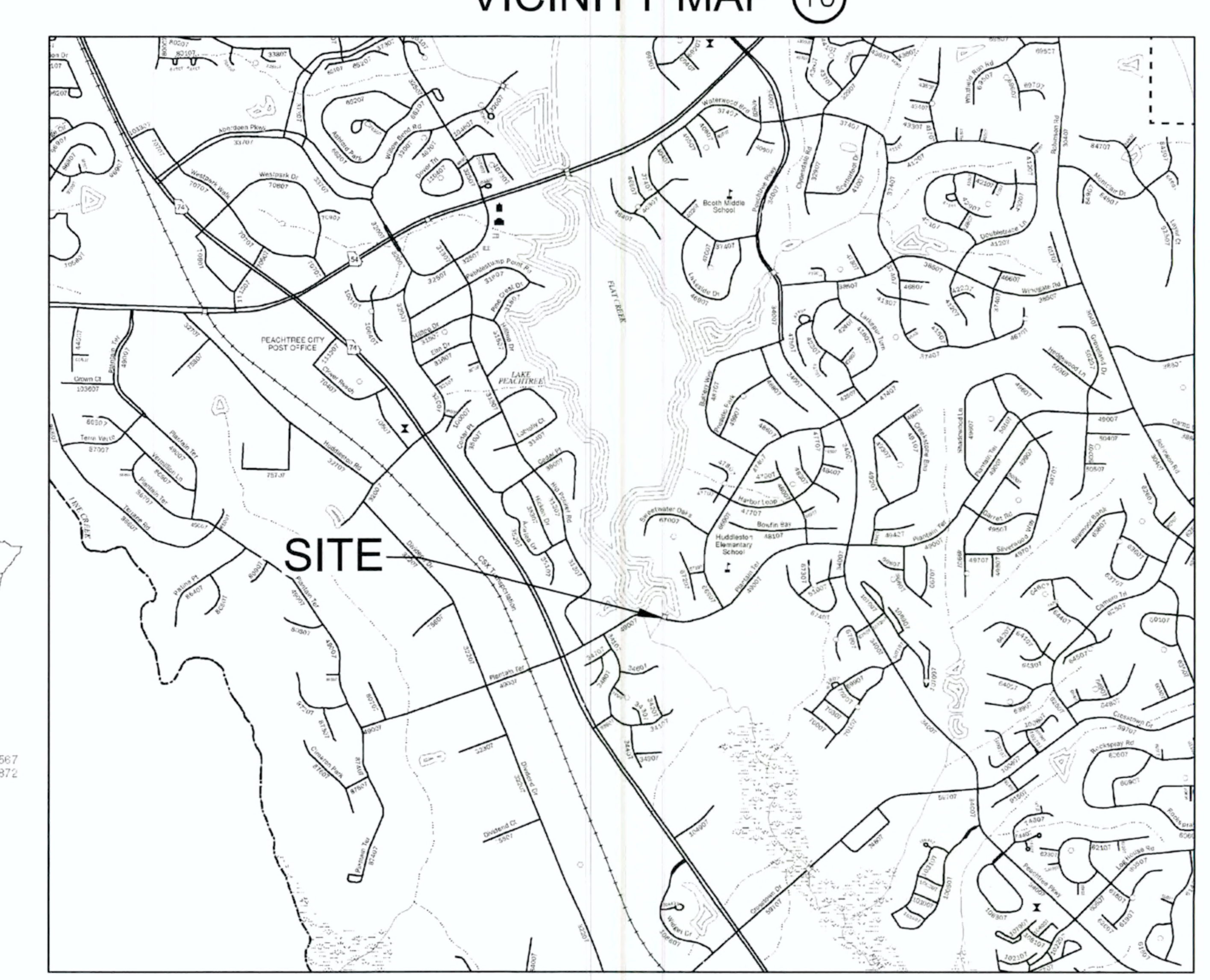
SHEET #	TITLE
C500	ES&PC COVER
C501	EROSION CONTROL NOTES
C502	N.P.D.E.S. CHECKLIST
C510	PHASE I - INITIAL PERIMETER EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
C520	PHASE II - INTERMEDIATE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
C530	PHASE III - FINAL PHASE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
C600	EROSION CONTROL DETAILS
C601	EROSION CONTROL DETAILS
C602	EROSION CONTROL DETAILS

EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS FOR

LAKE PEACHTREE SPILLWAY REPLACEMENT

FAYETTE COUNTY, GEORGIA

VICINITY MAP (10)



NTS

(#8)

(2) LAWRENCE H. DAVIS, JR., P.E. #: 19888 GSWCC#: 0000016514

INTEGRATED Science & Engineering
1039 SULLIVAN ROAD, SUITE 200, NEWNAN, GEORGIA 30265
(P)678.552.2106 (F)678.552.2107
ATLANTA/SAVANNAH

GEORGIA REGISTERED No 19888 PROFESSIONAL ENGINEER LAWRENCE H. DAVIS, JR. 7/7/2017

Rev.	Description	Date	Apr.
3	ISSUED FOR PERMIT - NOT FOR CONST	6/29/17	LHD
2	ISSUED FOR PERMIT - NOT FOR CONST	6/06/17	LHD
1	ISSUED FOR PERMIT - NOT FOR CONST	5/17/17	LHD

Date: 6/29/2017	Drawn by: SMJ	Check by: CKM
Project #: 1014.1607	Design by: LHD	Review by: LHD

EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN FOR
PTC SPILLWAY REPLACEMENT
PREPARED FOR
PEACHTREE CITY
LOCATED IN PEACHTREE CITY, GEORGIA

EROSION & SEDIMENT CONTROL COVER

DRAWING NO.
C-500

GENERAL PROJECT INFORMATION

Primary Permittee

CITY:

PEACHTREE CITY
151 WILLOWBEND ROAD
PEACHTREE CITY, GA 30289

Contact:

NAME: DAVID BORKOWSKI, CITY ENGINEER
PHONE: 770-631-2538

Qualified Personnel

CIVIL ENGINEER:

INTEGRATED SCIENCE & ENGINEERING
1039 SULLIVAN ROAD, SUITE 200
NEWNAN, GA 30265

Contact:

NAME: LAWRENCE H. DAVIS, JR.
PHONE: 678-552-2106

Site Description and Location:

THE SITE IS LOCATED WITHIN LAKE PEACHTREE AT THE SOUTH END ADJACENT TO KELLY DRIVE BRIDGE, WITH A SMALL PORTION SOUTH OF KELLY DRIVE. THE SITE CONSISTS OF 4.9 ACRES.

Construction Site Area:

SITE AREA: 4.9 AC
TOTAL AREA OF DISTURBANCE: 4.9 AC

Soil Types:

- CeB — CECIL SANDY LOAM 2-6% SLOPES
- CfC2 — CECIL SANDY CLAY LOAM 6-10% SLOPES, ERODED
- GwE2 — GWINNETT SANDY CLAY LOAM 25% SLOPES, ERODED
- W — WATER
- WH — WEHADKEE SOILS 0-2% SLOPES, FREQUENTLY FLOODED

Wetlands:

NO WETLANDS WERE IDENTIFIED WITHIN THE PROJECT SITE.

State Waters: (#11)

THE PROJECT SITE IS LOCATED WITHIN STATE WATERS: LAKE PEACHTREE, FLAT CREEK

Stream Impact: (#22) (#16)

PERMANENT STREAM BUFFER IMPACTS: 0.03 ACRES
TEMPORARY STREAM BUFFER IMPACTS: 0.46 ACRES
PERMANENT STREAM BED IMPACTS: 0.04 ACRES/35.4 LINEAR FEET
PERMANENT OPEN WATER IMPACTS: 0.05 ACRES
TEMPORARY OPEN WATER IMPACTS (FROM TEMPORARY COFFERDAM): 0.18 ACRES
IMPAIRED STREAM: SITE DISCHARGES TO FLAT CREEK, AN IMPAIRED STREAM (IMPAIRMENT: D.O.)

Drainage Description:

THE PROPERTY NORTH OF KELLY DRIVE DRAINS TO LAKE PEACHREE, AND THE PROPERTY SOUTH OF KELLY DRIVE DRAINS TO FLAT CREEK.

Slopes After Grading:

MAXIMUM CUT AND FILL SLOPES SHALL NOT EXCEED 2H:1V UNLESS OTHERWISE INDICATED.

Erosion Control Measures:

EROSION CONTROL MEASURES STRUCTURAL AND NON STRUCTURAL WILL BE USED ONSITE TO PREVENT EROSION DURING CONSTRUCTION INCLUDING TEMPORARY GRASSING, SILT FENCING, TEMPORARY SEDIMENT BASINS, AND OTHER MEASURES AS NECESSARY TO LIMIT SEDIMENT DISCHARGE FROM THE SITE. PLEASE REFER TO THE EROSION CONTROL PLANS (SHEET NO. C510, C520 AND C530) FOR SPECIFIC INFORMATION.

THE PRIMARY PERMITTEE SHALL MAKE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS AVAILABLE UPON REQUEST TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT. INSPECTIONS SHALL BE DONE BY A QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON-SITE IN COMPLIANCE WITH GAR 100001.

1. Site Description (#9) (#44)

A. Proposed Construction Activities

i. PERIMETER EROSION CONTROLS
ii. GRADING/CLEARING GRUBBING
iii. DEMOLITION
iv. SPILLWAY CONSTRUCTION
v. FINAL STABILIZATION (#11)

B. Construction Sequence

The proposed construction is estimated to take approximately 12 months. Sediment and erosion control will be maintained for the duration of construction. Perimeter silt fence, temporary sediment trap, and the construction exit will be installed prior land disturbance. Access to exposed soil will be limited to off-road construction equipment and construction material.

After installation of perimeter controls, construction activities will begin. This includes clearing, grubbing, grading, demolition of existing dam spillway, construction of existing dam spillway, and final stabilization

Please refer to the Erosion and Sediment Control Plan, Sheet C500, for the activity schedule.

2. Controls (#26) (#35)

The following controls will be implemented at the construction site:

1) Initial perimeter BMP controls will include silt fencing, temporary sediment basins, and stone pads to be used at the construction exit.
2) Intermediate grading and drainage BMPs will include silt fencing, temporary sediment basins, stone pads to be used at the construction exit, temporary and permanent grassing, and slope down drains.
3) Final BMPs will include permanent grassing by seed, matting,and additional landscaping.

A. Erosion and Sediment Controls

(1) Stabilization measures. Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or other adverse weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (i.e., the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of the site by the 14h day after construction activity temporarily ceased.

(2) Structural Practices. Structural practices will be implemented to divert flows from exposed soils or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable. The practices, identified on Sheets C510 through C530, silt fencing, tem sediment traps, construction exit pads, temporary and permanent grassing, slope down drains and other measures design and implemented in accordance with the Manual for Erosion and Sediment Control in Georgia, latest edition. The installation of these devices may be subject to Section 404 of the CWA.

(3) Sediment trap. The main drainage basin on-site will have a temporary sediment trap to remain until the final stabilization

B. Storm Water Management

Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Operators are only responsible for the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with construction activity have been eliminated from the site.

C. OTHER CONTROLS

(1) Waste disposal. solid materials, including building materials, will not be discharged to waters of the state, except as authorized by a section 404 permit.
(2) Off-site vehicle tracking of dirt, solids, and sediments and the generation of dust will be minimized or eliminated to the maximum extent practical.
(3) The permittee is in compliance with the state and local waste disposal, sanitary sewer, and septic tank regulations.
(4) Spill Cleanup and Control Practices

(#25)

a. Local, State, and manufacture's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
b. Material and equipment necessary for spill cleanup will be kept in the material storage areas. Typical materials and equipment includes, but not limited to, brooms, dustpans, mops, rags, gloves,goggles, cat litter, sand, sawdust, and properly labeled plastic and metal waste containers.
c. Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
e. All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State, and Federal regulations.
f. 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
g. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802 OR 1-202-426-2675
h. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. WILL BE CONTACTED WITHIN 24 HOURS.
i. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, 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 the 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.

(5) Product Specific Practices

(#27)

a. Petroleum Based Products - Containers for products such as fuels, lubricants, and tars will be inspected daily for leaks and spills. This includes onsite vehicles and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from State Waters, 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.
b. Paint/Finishes/Solvents - All products will be stored 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 manufacture's specifications and recommendations.
c. Concrete wash out - concrete may be used on site for structural measures or thrust blocking. No concrete wash out may be performed in the public right of way. Trucks may be washed out as identified on plans, however, washout of the drum at the construction site is prohibited.

(#24)

d. Concrete Truck Washing - NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum was water onsite.
e. Fertilizers/ Herbicides - These products will be applied at rates that do not exceed the manufacture's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.
g. Building Materials - No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

3. Inspections (#29)

A. **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 of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). 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 of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(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 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 end of the second business day and/or working day and shall identify all incidents of not been properly installed and/or maintained as described have best management practices that 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 this permit.

4. Maintenance

A. Inspections by a certified personnel provided by the primary permittee and the associated records shall be kept on-site in compliance with GAR. 100001.

B. Inspections of erosion control measures will be performed and corrective action taken when needed as required by the plan.

C. The permittee shall maintain all erosion control measures until permanent vegetation has been established.

D. The permittee shall clean out all sediment storage areas when required by the "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

E. Accumulated silt shall be removed when the silt is within 12" of the top of the silt fence utilized for erosion control.

5. Sampling Requirements (#30) (#32) (#33)

A. Sampling Requirements

Sampling will occur at the outfall from the new detention pond. The unnamed tributary downstream of the proposed development is classified as state waters (supporting warm water fisheries). (See the Erosion and Sediment Control Plan, Sheet C520 for Sampling Location).

B. Sample Type

All sampling will be collected by "grab samples" and the analysis of these samples will 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.

The following sampling practices will be followed in accordance with the requirements of GAR100001:

(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, clean 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.B.

C. Sampling Points

Sampling Points will be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

(1) The upstream sample for each receiving water(s) will be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farther upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(2) The downstream sample for each receiving water(s) will be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(3) Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).

(4) Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel(s).

(5) The sampling container should be held so that the opening faces upstream.

(6) The samples should be kept free from floating debris.

(7) Permittee's do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been used. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial; vegetation appropriate for the time of year and region; or a crop of annual vegetation and a seeding of target crop perennials appropriate for the region. Final stabilization applies to each phase of construction.

(8) All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the facility/site is in compliance with the standard set forth in Parts 111.C.3. or 111.C.4., whichever is applicable.

D. Sampling Frequency

(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 this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.
(3). Sampling by the permittee shall occur for the following qualifying 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 this 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 or 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 this 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) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.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.

E. Turbidity Limitations

1. In-stream discharge is not to increase turbidity in the receiving stream by more than twenty-five (25) nephelometric units (NTU) for waters supporting warm water fisheries, as stated in GAR 100001 Part III.C.3.
2. The outfall discharge from the NPDES Sample Location Point(s) is not to exceed the maximum allowable NTU value shown below as stated in GAR 100001 Part III.C.4 and from Appendix B.

Turbidity Requirements for Outfall From Sediment Basin Appendix B:

SURFACE WATER DRAINAGE AREA: < 4.99 SQUARE MILES
SITE SIZE: 1 to 10 ACRES

MAXIMUM ALLOWABLE NTU = 75

6. Non-Stormwater Discharges

It is anticipated that non-stormwater discharges will occur as part of the flushing and disinfection processes required for the potable water and fire service installed with this construction. This will include the main waterline and several hydrants. In all areas, the discharge is to be directed to the adjacent pavement to prevent scour. In addition, the location where this water exits the pavement will be observed during the discharge. If any evidence of erosion begins, the operation will be immediately stopped, and either altered to prevent erosion or delayed until completion of the installation of control measures.

7. Reporting

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
2. All sampling reports shall include the following information:
   a. The rainfall amount, date, exact place and time of sampling or measurements;
   b. The name(s) of the certified personnel who performed the sampling and measurements;
   c. The date(s) analyses were performed;
   d. The time(s) analyses were initiated;
   e. The name(s) of the certified personnel who performed the analyses;
   f. References and written procedures, when available, for the analytical techniques or methods used;
   g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
   h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
   i. Certification statement that sampling was conducted as per the Plan.
3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

8. Retention of Records (#31)

1. 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 the Erosion, Sedimentation and Pollution Control Plan required by this permit;
   c. The design professional's report of the results of the inspection conducted in accordance with Part IVA5. of this permit;
   d. A copy of all sampling information, results, and reports required by this permit;
   e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
   f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
   g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.
2. 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 this permit. These records must be maintained at the permittee's primary place of business or at 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.

9. Report Submittal

All written correspondence required by this permit shall be submitted by **return receipt certified mail** (or similar service) to the appropriate District Office of the EPD. See address below:

MOUNTAIN DISTRICT - ATLANTA SATELLITE
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
4244 INTERNATIONAL PKWY. SUITE 114
ATLANTA, GA. 30354-3906
PHONE (404) 362-2671

HYDROLOGY (#44)

THE PRE-DEVELOPMENT DRAINAGE CHARACTERISTICS OF THE SITE ARE UNCHANGED POST DEVELOPMENT.

IMPAIRED STREAM REQUIREMENTS

1. A LARGE SIGN (MIN 4'X8' MUST BE ON THE SITE ON THE ACTUAL START DATE OF CONSTRUCTION VISIBLE FROM A PUBLIC ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE(S), AND THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S) UNTIL A N.O.T HAS BEEN SUBMITTED.
2. AS NOTED PREVIOUSLY, TURBIDITY SAMPLING SHALL BE CONDUCTED AFTER EVERY RAIN EVENT OF 0.5 INCHES OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.d. of the NPDES PERMITS.
3. ALL DISTURBED AREAS SHALL BE SODDED.
4. CONTRACTOR SHALL CONDUCT SOIL TESTS TO IMPLEMENT SITE SPECIFIC FERTILIZERS.

INTEGRATED Science & Engineering
1039 SULLIVAN ROAD, SUITE 200, NEWNAN, GEORGIA 30265
(P)678.552.2106 (F)678.552.2107
ATLANTA/SAVANNAH

GEORGIA REGISTERED No 19888 PROFESSIONAL ENGINEER LAWRENCE H. DAVIS JR.

Rev.	Description	Date	
3	ISSUED FOR PERMIT - NOT FOR CONST	6/29/17	LHD
2	ISSUED FOR PERMIT - NOT FOR CONST	6/06/17	LHD
1	ISSUED FOR PERMIT - NOT FOR CONST	5/17/17	LHD

Date: 6/29/2017 | Drawn by: SMJ | Check by: CKM
Project #: 1014.1607 | Design by: LHD | Review by: LHD

8

EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN FOR
PTC SPILLWAY REPLACEMENT
PREPARED FOR
PEACHTREE CITY
LOCATED IN PEACHTREE CITY, GEORGIA

EROSION & SEDIMENT CONTROL NOTES

DRAWING NO.
C-501

2 LAWRENCE H. DAVIS, JR., P.E. #: 19888 GSWCC#: 0000016514

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:___Region 2_____

Project Name:_LAKE PEACHTREE SPILLWAY REPLACEMENT __ Address:_____775 DACULA ROAD DACULA, GA 30019_____

City/County:__PEACHTREE CITY/FAYETTE_____ Date on Plans:____5/12/17_____

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
C502	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)
C500	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)
C500	Y	3	Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.* (A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)
C500	Y	4	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
C500	Y	5	Provide the name, address and phone number of primary permittee.
C500	Y	6	Note total and disturbed acreage of the project or phase under construction.
C510	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
C500	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C501	Y	9	Description of the nature of construction activity.
C500	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C501	Y	11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
C500	Y	12	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
C500	Y	13	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 page 15 of the permit.*
C500	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."*
C500	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."
C501	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C500	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."*
C500	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."*
C500	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."
C500	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."
C500	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."
	NA	22	Any construction activity which discharges storm water 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 must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
	NA	23	If a TMDL Implementation Plan for sediment has been finalized for the 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.*
C501	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
C501	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
C501	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.*
C501	Y	27	Description of the practices that will be used to reduce the pollutants in storm water discharges.*
C500	Y	28	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, temporary and final stabilization).
C501	Y	29	Provide complete requirements of inspections and record keeping by the primary permittee.*
C501	Y	30	Provide complete requirements of sampling frequency and reporting of sampling results.*
C501	Y	31	Provide complete details for retention of records as per Part IV.F. of the permit.*
C501	Y	32	Description of analytical methods to be used to collect and analyze the samples from each location.*
C501	Y	33	Appendix B rationale for NTU values at all outfall sampling points where applicable.*
C520	Y	34	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
C501	Y	35	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 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.*
C510	Y	36	Graphic scale and North arrow.
C520	Y	37	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

	NA	38	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 EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
	NA	39	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
C510	Y	40	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
C510	Y	41	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
C510	Y	42	Delineation and acreage of contributing drainage basins on the project site.
C520	Y	43	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*
C501	Y	44	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
C602	Y	45	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
C510	Y	46	Soil series for the project site and their delineation.
C510	Y	47	The limits of disturbance for each phase of construction.
C520	Y	48	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 included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permitees 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 feasable, a written justification explaining this decision must be included in the plan.
C520	Y	49	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.
C600-602	Y	50	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.
C600	Y	51	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 the 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 h **Effective January 1, 2017**

APPENDIX 1

THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

The four items chosen must be appropriate for the site conditions.

Plan Page #	Included Y/N		
	N	a.	During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
	N	b.	Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
	N	c.	Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
C501	Y	d.	A large sign (minimum 4 feet x 8 feet) must be on the site on the actual start date of construction visible from a public roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s) until a NOT has been submitted.
	N	e.	Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the NPDES Permit.
C501	Y	f.	Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of the NPDES Permits.
	N	g.	Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
	N	h.	Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the plan.
	N	i.	Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the plan.
	N	j.	Use "Dirt II" techniques available on the EPD website, www.gaepd.org (e.g., seep berms, sand filters, anionic PAM) to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan.
	N	k.	Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
	N	l.	Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
	N	m.	Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1. All graphical illustrations must be included on the Plan.
	N	n.	Use appropriate erosion control matting or blankets instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
	N	o.	Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
C530	Y	p.	Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
C501	Y	q.	Conduct soil tests to identify and to implement site-specific fertilizer needs.
	N	r.	Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3).(a) – (c); secondary permittees, Part IV.D.4.b.(3). (a) – (c); and tertiary permittees Part IV.D.4.c.(3).(a) – (c). *
	N	s.	Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
	N	t.	Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by aDesign Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov)
	N	u.	Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the plan.

Effective January 1, 2017

* This requirement is different for infrastructure projects.

Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3).(a) – (c) of this permit.

INTEGRATED Science & Engineering
1039 Sullivan Road, Suite 202, Newnan, Georgia 30265
(P)678.552.2106 (F)678.552.2107
ATLANTA/SAVANNAH

GEORGIA REGISTERED No. 19888 PROFESSIONAL ENGINEER LAWRENCE H. DAVIS JR.

Rev.	Description	Date	Apr
3	ISSUED FOR PERMIT - NOT FOR CONST	6/29/17	LHD
2	ISSUED FOR PERMIT - NOT FOR CONST	6/06/17	LHD
1	ISSUED FOR PERMIT - NOT FOR CONST	5/17/17	LHD

Drawn by: SKJ | Check by: CKM
Design by: LHD | Review by: LHD
Date: 6/29/2017
Project #: 1014.1607

EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN FOR
PTC SPILLWAY REPLACEMENT
PREPARED FOR
PEACHTREE CITY
LOCATED IN PEACHTREE CITY, GEORGIA

EROSION & SEDIMENT CONTROL NOTES

DRAWING NO.
C-502

LAWRENCE H. DAVIS, JR., P.E. #: 19888 GSWCC#: 0000016514

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
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.
Sd1-Ns Sd1-S	SEDIMENT BARRIER	—x—x—	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 SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY.
St	STORM DRAIN INLET/OUTLET PROTECTION		A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
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.

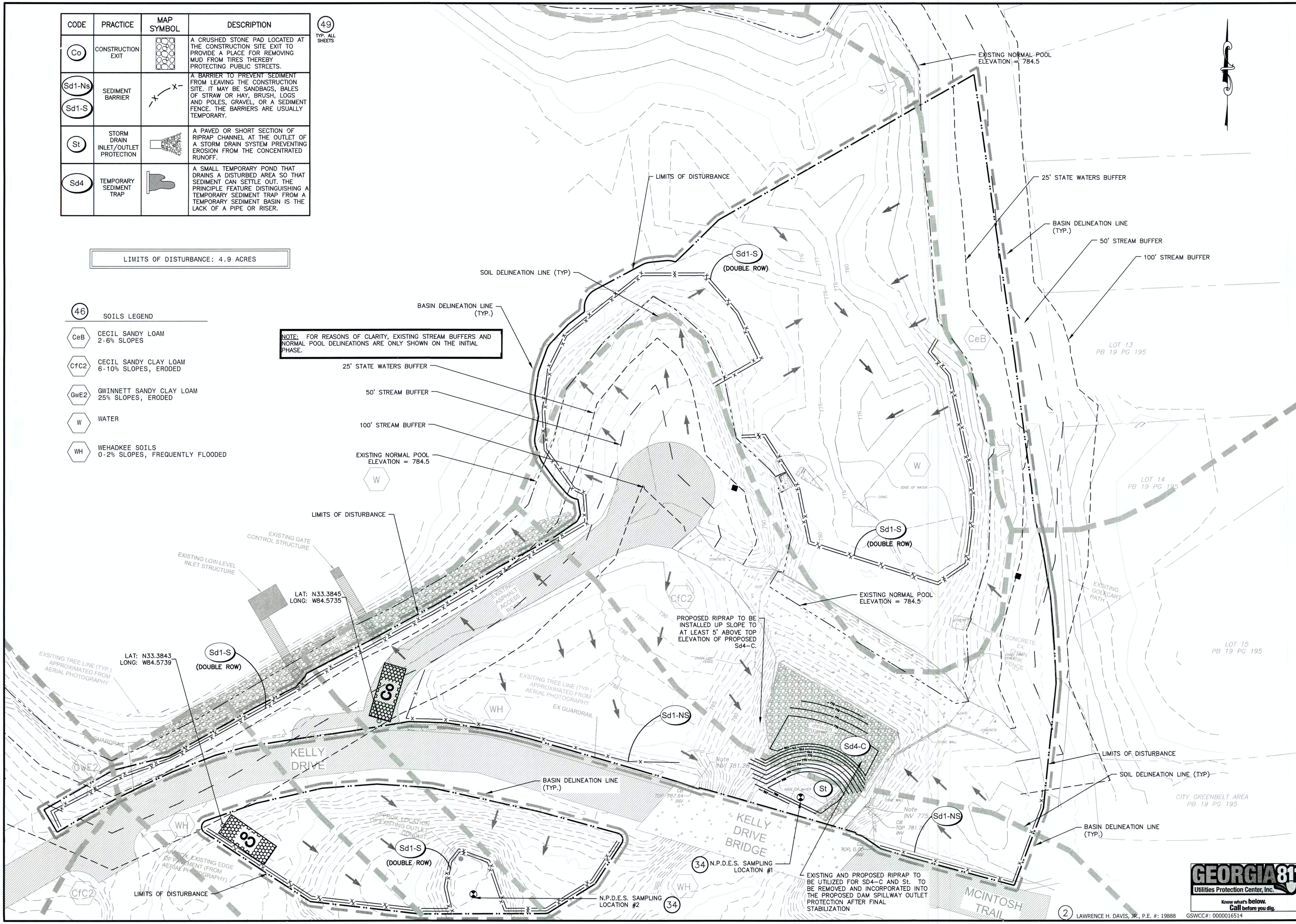
49 TYP. ALL SHEETS

LIMITS OF DISTURBANCE: 4.9 ACRES

46 SOILS LEGEND

- CeB — CECIL SANDY LOAM 2-6% SLOPES
- CfC2 — CECIL SANDY CLAY LOAM 6-10% SLOPES, ERODED
- GwE2 — GWINNETT SANDY CLAY LOAM 25% SLOPES, ERODED
- W — WATER
- WH — WEHADKEE SOILS 0-2% SLOPES, FREQUENTLY FLOODED

NOTE: FOR REASONS OF CLARITY, EXISTING STREAM BUFFERS AND NORMAL POOL DELINEATIONS ARE ONLY SHOWN ON THE INITIAL PHASE.



GEORGIA 811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

LAWRENCE H. DAVIS, JR., P.E. #: 19888   GSWCC#: 0000016514

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GEORGIA REGISTERED No 19888 PROFESSIONAL ENGINEER LAWRENCE H. DAVIS JR.

Rev.	Description	Date	Apr.
3	ISSUED FOR PERMIT - NOT FOR CONST	6/29/17	LHD
2	ISSUED FOR PERMIT - NOT FOR CONST	6/06/17	LHD
1	ISSUED FOR PERMIT - NOT FOR CONST	5/17/17	LHD

Date: 6/29/2017 | Drawn by: SMJ | Check by: CKM
Project #: 1014.1607 | Design by: LHD | Review by: LHD

SCALE: 1" = 30'

EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN FOR

PTC SPILLWAY REPLACEMENT

PREPARED FOR

PEACHTREE CITY

LOCATED IN PEACHTREE CITY, GEORGIA

INITIAL EROSION CONTROL PLAN

DRAWING NO. C510

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
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.
Sd1-Ns Sd1-S	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 SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY.
Dn1	TEMPORARY DOWNSTREAM STRUCTURE		A FLEXIBLE CONDUIT OF HEAVY-DUTY PLASTIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE AS A TEMPORARY MEASURE.
St	STORM DRAIN INLET/OUTLET PROTECTION		A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
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
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.
Ds1	DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)	Ds3	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON DISTURBED AREAS.
Du	DUST CONTROL ON DISTURBED AREAS	Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADWAYS AND SIMILAR SITES.

(49) TYP. ALL SHEETS

LIMITS OF DISTURBANCE: 4.9 ACRES

NOTE: THIS BASIN AREA IS LIKELY NOT TO BE DISTURBED. EXTRA 0.8 ACRES OF LIMITS OF DISTURBANCE PROVIDED TO ALLOW FLEXIBILITY IN LOCATING THE COFFERDAM. THE POTENTIAL EXTRA 0.8 ACRES OF DISTURBANCE WILL REQUIRE 0.75X67=51 CY OF SEDIMENT STORAGE. ALL REQUIRED SEDIMENT STORAGE WITHIN THIS AREA PROVIDED BY SD4-C.

LIMITS OF DISTURBANCE

30" TEMPORARY BYPASS PIPE

Sd1-S (DOUBLE ROW)

BASIN DELINEATION LINE (TYP.)

PROPOSED 2' TALL PARAPET WALL

BASIN DELINEATION LINE (TYP.)

Ds1 | Ds2 | Du

Ds3 WITH MULCHING

LOT 13 PB 19 PG 195

Sd1-NS (DOUBLE ROW)

EDGE OF WATER

LOT 15 PB 19 PG 195

EXSITING GOLFCART PATH

CITY GREENBELT AREA PB 19 PG 195

DISTURBED AREA B (48)

TOTAL BASIN AREA: 0.75 ACRES
TOTAL ASPHALT AREA: 0.2 ACRES
SEDIMENT STORAGE REQUIRED: (0.75-0.2) ACRES X 67 CY/ACRE = 36.9 CY

SEDIMENT STORAGE PROVIDED BY 710 LF OF DOUBLE SILT FENCE AT 1' DEEP AND 3' WIDE BEHIND FENCE = 39.4 CY.

LIMITS OF DISTURBANCE

CONCRETE WASHDOWN AREA

EXISTING ASPHALT ACCESS ROAD

EXISTING BUILDING TO BE REMOVED

EXISTING TREE LINE (TYP.) APPROXIMATED FROM AERIAL PHOTOGRAPHY

Sd1-S (DOUBLE ROW)

C8

TEMPORARY DOWNDRAIN STRUCTURE - 12" HDPE PIPE TO DISCHARGE WITHIN RIPRAP SD4-C. UTILIZE SANDBAGS TO DIRECT WATER TO DOWNDRAIN STRUCTURE. TO BE REMOVED AFTER FINAL STABILIZATION. DRAINAGE AREA = 0.5 ACRES

EX GUARDRAIL

KELLY DRIVE

Dn1

Sd4-C

St

EXISTING AND PROPOSED RIPRAP TO BE UTILIZED FOR SD4-C AND St. TO BE REMOVED AND INCORPORATED INTO THE PROPOSED DAM SPILLWAY OUTLET PROTECTION AFTER FINAL STABILIZATION

Sd2-F

Sd1-NS

LIMITS OF DISTURBANCE

BASIN DELINEATION LINE (TYP.)

BASIN DELINEATION LINE (TYP.)

C9

APPROX. LOCATION OF EXISTING OUTLET CONDUIT

Sd1-S (DOUBLE ROW)

KELLY DRIVE BRIDGE

(34) N.P.D.E.S. SAMPLING LOCATION #1

LIMITS OF DISTURBANCE

N.P.D.E.S. SAMPLING LOCATION #2 (34)

MCINTOSH TRAIL

DISTURBED AREA A (48)

TOTAL DISTURBED AREA: 0.6 ACRES
SEDIMENT STORAGE REQUIRED: 0.6 ACRES X 67 CY/ACRE = 40.2 CY

SEDIMENT STORAGE PROVIDED BY 413 LF OF DOUBLE SILT FENCE AT 1.5' DEEP AND 4' WIDE BEHIND FENCE = 45.9 CY.

DISTURBED AREA C (48)

TOTAL DISTURBED AREA = 2.8 ACRES

SEDIMENT STORAGE CALCULATION:
STORAGE REQ'D = 2.8 ACRES X 67 CY = 188 CY

STORAGE PROVIDED BY 366 LF OF DOUBLE SILT FENCE AT 1' DEEP AND 3' WIDE BEHIND FENCE = 20.3 CY

STORAGE PROVIDED BY SD4-C = [(TOP AREA + BOTTOM AREA)/2] X DEPTH/27 = [(4445.6+1439.5)/2]X7/27 = 327 CY

TOTAL STORAGE PROVIDED: 20.3 CY + 327 CY = 347 CY

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GEORGIA REGISTERED No 19888 PROFESSIONAL ENGINEER LAWRENCE H. DAVIS JR

Rev	Description	Date	Apr
3	ISSUED FOR PERMIT - NOT FOR CONST	6/29/17	LHD
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1	ISSUED FOR PERMIT - NOT FOR CONST	5/17/17	LHD

Date: 6/29/2017 | Drawn by: SMJ | Design by: LHD | Check by: CKM | Review by: LHD
Project # 1014.1607

SCALE: 1" = 30' (30' 15' 0' 30')

EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN FOR
PTC SPILLWAY REPLACEMENT
PREPARED FOR
PEACHTREE CITY
LOCATED IN PEACHTREE CITY, GEORGIA

INTERMEDIATE EROSION CONTROL PLAN

GEORGIA 811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

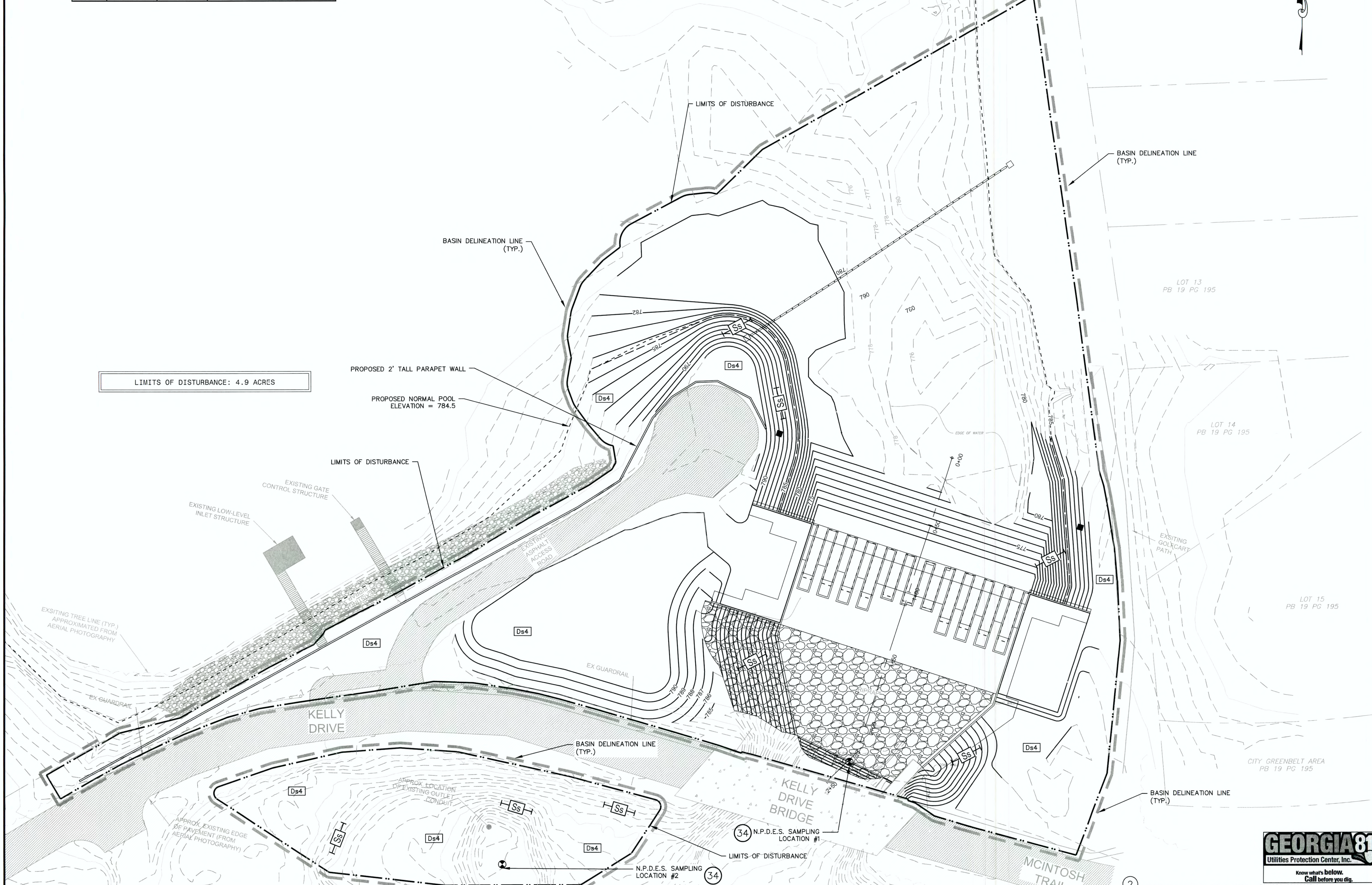
DRAWING NO. C520

(2) LAWRENCE H. DAVIS, JR., P.E. #: 19888 GSWCC#: 0000016514

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
Ds4	DISTURBED AREA STABILIZATION (SODDING)	Ds4	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODABLE OR CRITICALLY ERODED LANDS.

49 TYP. ALL SHEETS

LIMITS OF DISTURBANCE: 4.9 ACRES



LAWRENCE H. DAVIS, JR., P.E. #: 19888

GSWCC#: 0000016514

GEORGIA 811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 19888 LAWRENCE H. DAVIS, JR.

Rev	Description	Date	Apr
3	ISSUED FOR PERMIT - NOT FOR CONST	6/29/17	LHD
2	ISSUED FOR PERMIT - NOT FOR CONST	6/06/17	LHD
1	ISSUED FOR PERMIT - NOT FOR CONST	5/17/17	LHD

Date: 6/29/2017 | Drawn by: SMJ | Check by: CKM

Project #: 1014.1607 | Design by: LHD | Review by: LHD

SCALE: 1" = 30'

EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN FOR

PTC SPILLWAY REPLACEMENT

PREPARED FOR

PEACHTREE CITY

LOCATED IN PEACHTREE CITY, GEORGIA

FINAL EROSION CONTROL PLAN

DRAWING NO. C530

TABLE 1
SOME PERMANENT PLANT SPECIES, SEEDING RATES, AND PLANTING DATES

SPECIES	RATES PER ACRE	RATES PER 1,000 SQ. FT.	PLANTING DATES BY REGION M–L	P	C	REMARKS
BAHIA, PENSACOLA ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	–	4/1–5/31	3/1–5/31	LOW GROWING SOD PRODUCING; WILL SPREAD INTO BERMUDA LAWNS.
BAHIA, WILMINGTON ALONE OR WITH TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LB.	3/15–5/31	3/1–5/31	–	SAME AS ABOVE.
BERMUDA, COMMON (HULLED SEED) ALONE WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LB. 0.1 LB.	–	4/1–5/31	3/15–5/31	QUICK COVER; LOW GROWING; SOD FORMING; NEEDS FULL SUN.
BERMUDA, COMMON (UNHULLED SEED) WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LB. 0.1 LB.	–	10/15–2/28	11/1–1/31	PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA, SPRIGS COMMON LAWN AND FORAGE HYBRIDS	40 CU. FT. SOD PLUGS 3'x3'	0.9 CU. FT.	4/15–6/15	4/1–6/15	4/1–5/31	1 CU. FT. = 650 SPRIGS; 1 BU. = 1.25 CU. FT. OR 800 SPRIGS
CROWN VETCH WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS.	0.3 LB.	9/1–10/15	9/1–10/15	–	MIX WITH 30 LBS. TALL FESCUE OR 15 LBS. RYE; INOCULATE SEED; PLANT ONLY NORTH OF ATLANTA.
FESCUE, TALL ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LB.	3/1–4/1 OR 8/15–9/30	8/15–10/15 OR 2/15–4/15	–	MIX WITH PERENNIAL LESPEDEZAS OR CROWN VETCH; NOT FOR DROUGHTY SOILS OR HEAVY USE AREAS.
LESPEDEZA, SERICEA SCARIFIED	60 LBS.	1.4 LBS.	4/1–5/31	3/15–5/31	3/1–5/15	WIDELY ADAPTED AND LOW MAINTENANCE; TAKES 2–3 YEARS TO ESTABLISH; SEED WITH EL INOCULANT; MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA OR TALL FESCUE.
UNSCARIFIED SEED–BEARING HAY	75 LBS. 3 TONS.	1.7 LBS. 138 LBS.	9/1–2/28 10/1–2/1	9/1–2/28 10/1–2/28	9/1–2/28 9/15–1/15	MIX WITH TALL FESCUE OR WINTER ANNUALS. CUT WHEN SEED IS MATURE BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA, AMBRO VIRGATA OR APPALOW SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	4/1–5/31 9/1–2/28	3/15–5/31 9/1–2/28	3/1–5/15 9/1–2/28	SPREADING GROWTH WITH HEIGHT OF 18"–24"; GOOD IN URBAN AREA; SLOW TO DEVELOP GOOD STANDS; MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA TALL FESCUE OR WINTER ANNUALS; DO NOT MIX WITH SERICEA LESPEDEZA; INOCULATE SEED WITH EL INOCULANT.
LESPEDEZA, SHRUB (LESPEDEZA BICOLOR OR LESPEDEZA THUMBERGII) PLANTS	3'x3' SPACING		11/1–3/31	11/1–3/15	11/15–2/28	PLANT IN SMALL CLUMPS FOR WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING ALONE WITH OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LB. 0.05 LB.	4/1–5/31	3/15–5/31	3/1–5/31	QUICK COVER; DROUGHT TOLERANT; GROWS WELL WITH SERICEA LESPEDEZA ON ROAD–BANKS AND OTHER STEEP SLOPES; SHORT LIVED.
MAIDENCANE SPRIGS	2'x3' SPACING		2/1–3/31	2/1–3/31	2/1–3/31	FOR VERY WET SITES SUCH AS RIVERBANKS AND SHORELINES. DIG SPRIGS LOCALLY.
PANICGRASS, ATLANTIC COASTAL	20 LBS.	0.5 LB.	–	3/1–4/30	3/1–4/30	GROWS WELL ON COASTAL SAND DUNES; MIX WITH SERICEA LESPEDEZA BUT NOT ON SAND DUNES.
REED CANARY GRASS ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LB.	8/15–10/15	9/1–10/15	–	GROW SIMILAR TO TALL FESCUE; FOR WET SITES.
SUNFLOWER, AZTEC MAXIMILLIAN	10 LBS.	0.2 LB.	4/15–5/31	4/15–5/31	4/1–5/31	MIX WITH WEEPING LOVE–GRASS OR OTHER LOW GROWING GRASSES OR LEGUMES.
SWITCHGRASS	20 LBS.	0.4 LB.	4/1–5/31	4/1–5/31	4/1–5/31	FOR STREAMBANK PLANTINGS, DRAINAGE DITCHES, AND WET AREAS.

TABLE 2

SUGGESTED SEEDBED DEPTHS	
SLOPE	SEEDBED DEPTH
3:1 OR FLATTER	1" TO 4" DEPTH
2:1 TO 3:1	4" DEPTH
2:1 OR STEEPER	DEPRESSIONS EVERY 6" TO 8" HAND–DUG, IF NECESSARY

LIME

- AGRICULTURAL LIME IS REQUIRED AT THE RATE OF 2 TONS PER ACRE.
- AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
- LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "GROUND LIMESTONE". GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90% OF THE MATERIAL WILL PASS THROUGH A 10–MESH SIEVE, NOT LESS THAN 50% WILL PASS THROUGH A 50–MESH SIEVE AND NOT LESS THAN 25% WILL PASS THROUGH A 100–MESH SIEVE.
- AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINELY GROUND LIMESTONE". FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98% OF THE MATERIAL WILL PASS THROUGH A 20–MESH SIEVE AND NOT LESS THAN 70% WILL PASS THROUGH A 100–MESH SIEVE.

TABLE 3
FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6–12–12 6–12–12 10–10–10	1500 1000 400	50–100 –– 30
COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6–12–12 0–10–10 0–10–10	1500 1000 400	0–50 –– ––
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6–12–12 6–12–12 10–10–10	1500 800 400	50–100 50–100 30
WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6–12–12 0–10–10 0–10–10	1500 1000 400	50 –– ––

1. RATES ARE FOR BROADCASTED SEED. IF A SEED DRILL IS USED, REDUCE THE RATES BY ONE–HALF.
2. PLS IS AN ABBREVIATION OF PURE LIVE SEED.
3. CONTRACTOR SHALL USE COASTAL REGION FOR DETERMINATION OF SEED TYPES AND PLANTING DATES.

(51) Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

TABLE 1

SUGGESTED SEEDBED DEPTHS	
SLOPE	SEEDBED DEPTH
3:1 OR FLATTER	LESS THAN 4" DEPTH
2:1 TO 3:1	1" TO 4" DEPTH
2:1 OR STEEPER	DEPRESSIONS EVERY 6" TO 8" HAND–DUG, IF NECESSARY

RE–SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.

TABLE 2
SOME TEMPORARY PLANT SPECIES, SEEDING RATES AND PLANTING DATES

SPECIES	RATES PER 1,000 SQ. FT.	RATES PER ACRE	PLANTING DATES BY REGION M–L	P	C
RYE (GRAIN)	3.9 LBS.	3 BU	8/15–11/19	9/15–12/1 3/1–4/1	10/1–11/1
RYEGRASS	0.9 LB.	40 LBS.	8/15–11/15	9/1–12/15	9/15–1/1
RYE AND ANNUAL LESPEDEZA	0.6 LB. 0.6 LB.	0.5 BU 24 LBS	3/1–4/1	3/1–4/1	2/1–3/1
WEEPING LOVEGRASS	0.1 LB.	4 LBS.	4/1–6/1	4/1–6/1	3/1–6/1
SUDANGRASS	1.0 LB.	60 LBS.	5/1–8/1	5/1–8/1	4/1–8/1
BROWNTOP MILLET	1.1 LBS.	50 LBS.	4/15–6/15	4/15–7/1	4/15–7/1
WHEAT	4.1 LBS.	3 BU	9/15–12/1	10/1–12/15	10/15–1/1

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

TABLE 3
FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPE OF SPECIES	PLANTING YEAR	FERTILIZER (N–P–K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6–12–12 6–12–12 10–10–10	1500 1000 400	50–100 –– 30
COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6–12–12 0–10–10 0–10–10	1500 1000 400	0–50 –– ––
TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10–10–10	500	30
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6–12–12 6–12–12 10–10–10	1500 800 400	50–100 50–100 30

(51) Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

MULCHING APPLICATION REQUIREMENTS

MATERIAL	RATE	DEPTH
STRAW OR HAY	2–1/2 TON/ACRE	6" TO 10"
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	---

(51) Ds1 DISTURBED AREA STABILIZATION (WITH MULCH ONLY)

DUST CONTROL

N.T.S.

Du

PERMANENT METHODS:

PERMANENT VEGETATION - REFER TO Ds3 (DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION)

TOPSOILING - COVERING THE SURFACE WITH A LESS EROSIVE SOIL MATERIAL

STONE - SURFACE WITH CRUSHED STONE OR COARSE GRAVEL (SEE Cr - CONSTRUCTION ROAD STABILIZATION)

TEMPORARY METHODS:

MULCHES - REFER TO Ds1 (DISTURBED AREA STABILIZATION)

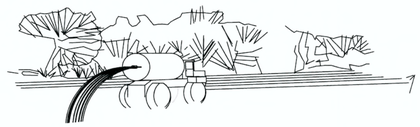
VEGETATIVE COVER - REFER TO Ds2 (DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING)

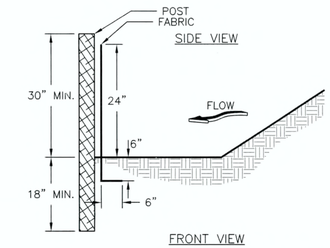
TILLAGE - ROUGHEN AND BRING CLODS TO THE SURFACE BY USE OF CHISEL–TYPE PLOWS SPACED ABOUT 12 INCHES APART

IRRIGATION - SITE SPRINKLED WITH WATER UNTIL WET. REPEAT AS NEEDED

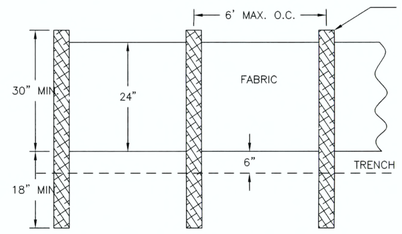
BARRIERS - FENCES, HAY BALES, AND CRATE WALLS PLACED AT INTERVALS 15 TIMES THEIR HEIGHT AND PERPENDICULAR TO AIR CURRENTS

CALCIUM CHLORIDE - APPLY TO KEEP SURFACE WET. REPEAT AS NEEDED.



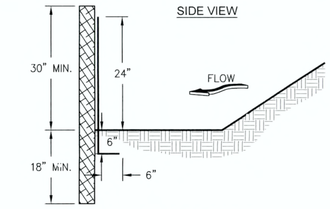


FRONT VIEW

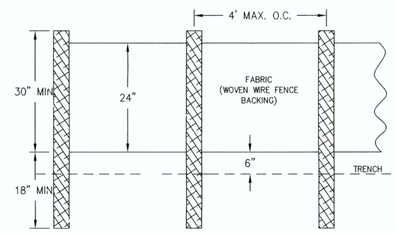


NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-Ns SILT FENCE – TYPE NON–SENSITIVE



FRONT VIEW



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S SILT FENCE – TYPE SENSITIVE

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Rev.	Description	Date	
3	ISSUED FOR PERMIT - NOT FOR CONST	6/28/17	LHD
2	ISSUED FOR PERMIT - NOT FOR CONST	5/06/17	LHD
1	ISSUED FOR PERMIT - NOT FOR CONST	5/17/17	LHD

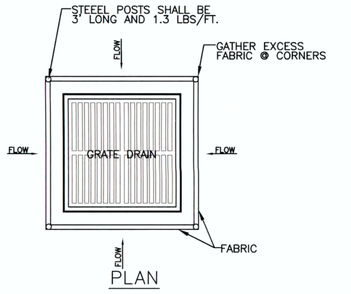
Date: 6/29/2017 | Drawn by: SMJ | Check by: CKM
Project # 1014.1607 | Design by: LHD | Review by: LHD

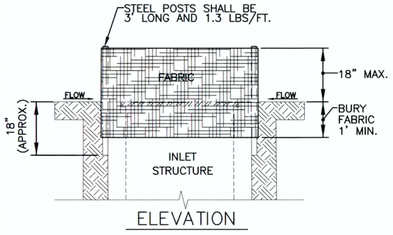
EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN FOR
PTC SPILLWAY REPLACEMENT
PREPARED FOR
PEACHTREE CITY
LOCATED IN PEACHTREE CITY, GEORGIA

EROSION & SEDIMENT CONTROL DETAILS

DRAWING NO.
C-600

(2) LAWRENCE H. DAVIS, JR., P.E. #: 19888 GSWCC#: 0000016514





INSTALLATION NOTES:
1. STAKES SHALL BE STEEL POSTS @ 3' MIN. & 1.3 LBS/FT.

2. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAX. OF 3 FT. APART, & SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 IN. DEEP.

3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2x4 IN. WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA @ A MAX. OF 1.5 FT. ABOVE THE DROP INLET CREST.

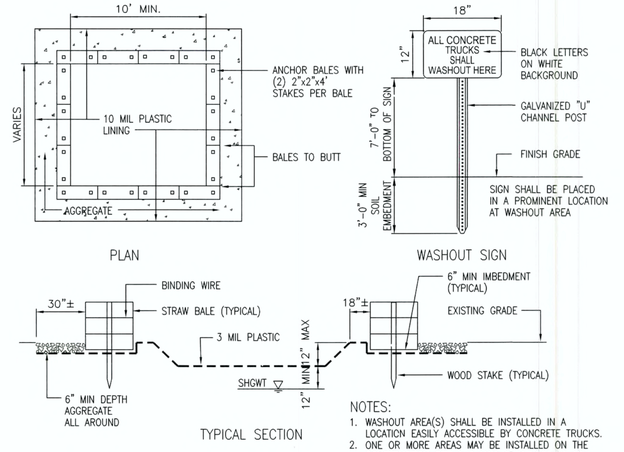
4. PLACE THE BOTTOM 12 IN. OF THE FABRIC IN A TRENCH & BACKFILL THE TRENCH W/AT LEAST 4 IN. OF CRUSHED STONE OR 12 IN. OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE POSTS & FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.

6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

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.

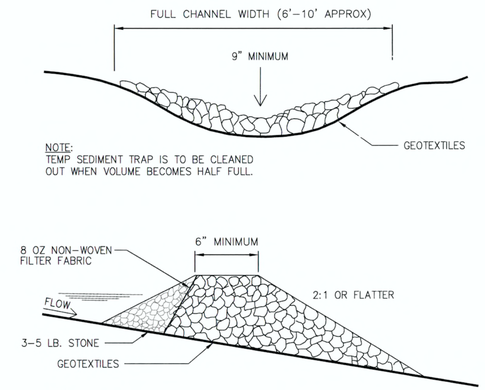
Sd2-F INLET SEDIMENT TRAP-FABRIC & SUPPORTING FRAME

SCALE: NTS DATE: 2/19/04



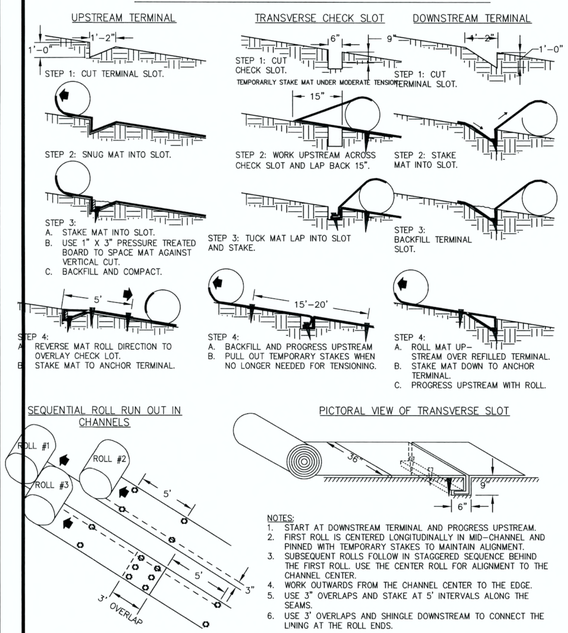
NOTES:
1. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
2. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
3. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

CONCRETE WASH OUT AREA DETAIL
SCALE: N.T.S.



Sd4-C TEMPORARY SEDIMENT TRAP WITH ROCK FILTER DAM

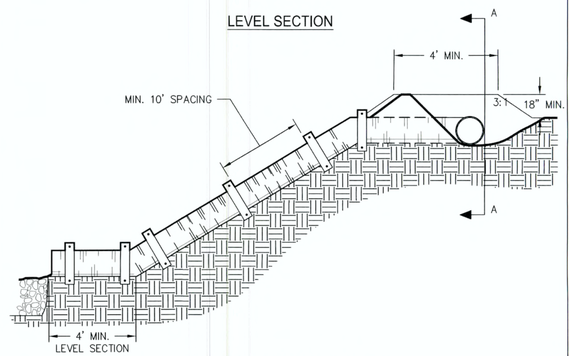
BLANKET AND MATTING CROSS-SECTIONS



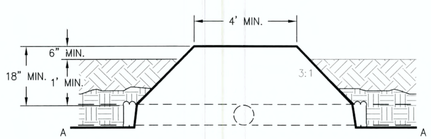
NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
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 STABLIZATION

Sd4-C DOWNDRAIN PIPE AND INLET DETAIL



INLET DETAIL SECTION A-A



MAKE ALL PIPE CONNECTIONS WATERTIGHT AND SECURE SO THAT THE JOINTS WILL NOT SEPARATE IN USE.

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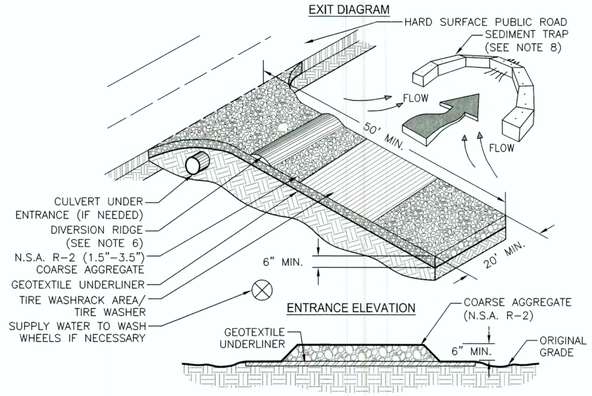
DRAWING NO.
C-601

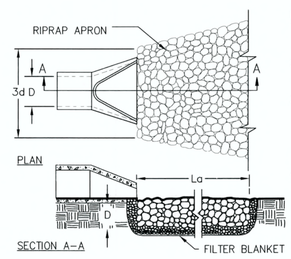
2 LAWRENCE H. DAVIS, JR., P.E. #: 19888 GSWCC#: 0000016514



CONSTRUCTION EXIT 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. WASH RACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASH RACK 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 CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co CONSTRUCTION EXIT



NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

St-1 - SEE SHEET C-121
1. DIAMETER OF PIPE = 42"
   FLOW RATE = 80 CFS
   VELOCITY = 8.3 FTS
   MAX.TAILWATER AT OUTLET PIPE
2. d50 = 1.25 MIN.
   D = 1.5*1.25 = 1.875
   La = 26 FT
   W1 = 10.5 FT
   W2 = 29.5 FT

45

St-1 RIPRAP OUTLET PROTECTION

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