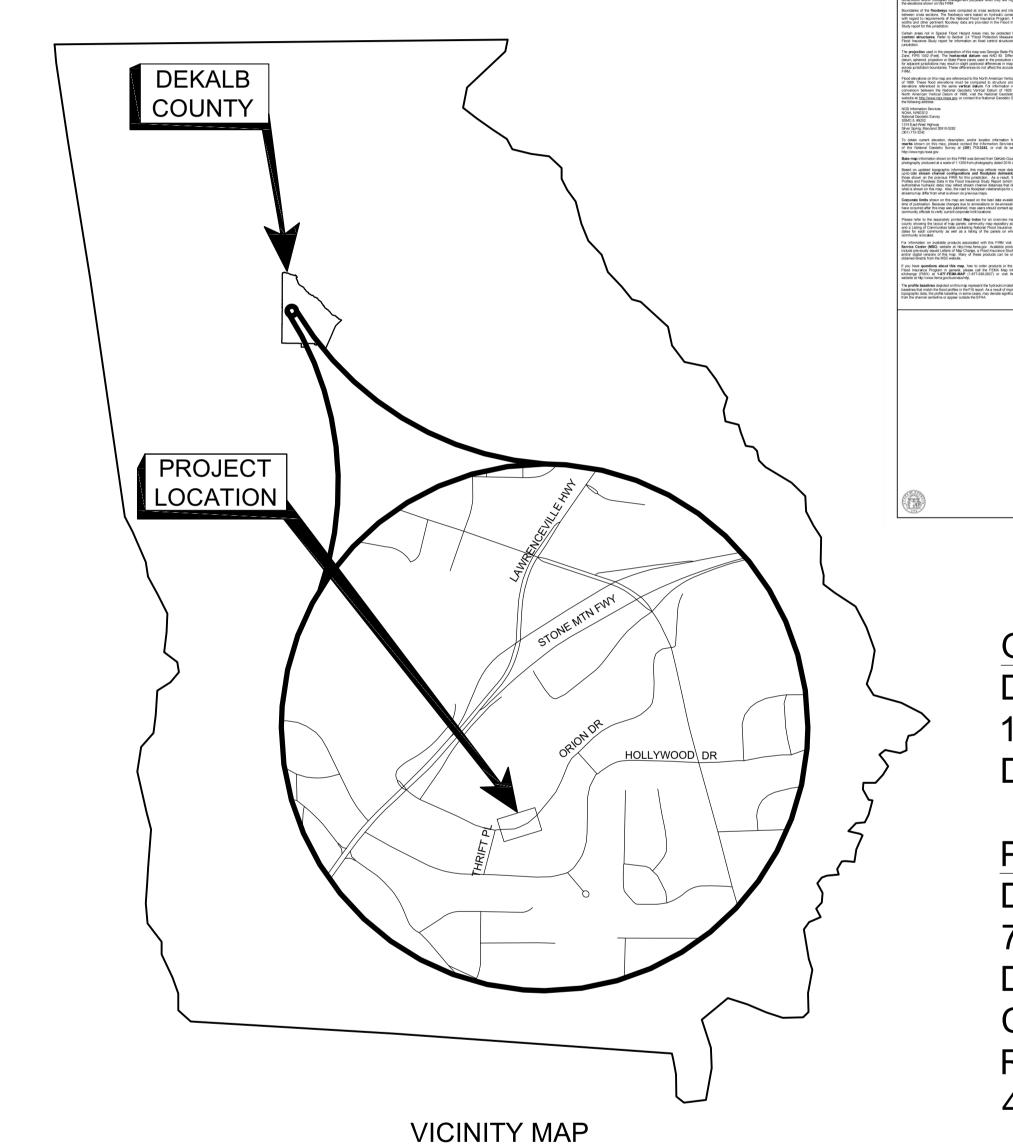
ORION DRIVE CULVERT IMPROVEMENT PROJECT

DEKALB COUNTY DEVELOPMENT FILE # 1243145

DECEMBER 7, 2020 TAX PARCEL # 18 063 13 001



3 MAP NUMBER 13089C0067J

DeKalb Cour

DEVELOPMENT SERVICES

APPROVED

ORION DRIVE IMPROVEMEN

Dewberry°

DRIVE , GA

2827 ORION I DECATUR,

FEMA MAP PANEL IMAGE FOR PANEL # 0067J

OWNER: DEKALB COUNTY 1330 COMMERCE DRIVE DECATUR, GA 30030

PRIMARY PERMITTEE: DEKALB COUNTY ROADS AND DRAINAGE 727 CAMP ROAD DECATUR, GA 30032 **CONTACT: REGINALD ANDERSON** RANDERSON3@DEKALBCOUNTYGA.GOV

404-294-2878

DEVELOPER: N/A

24 HOUR EMERGENCY CONTACT: BILLY COX 727 CAMP ROAD DECATUR, GA 30032 404-297-2563

Know what's Delow.

Call before you dig.

Dewberry

678.530.0040 FAX

REVISIONS APPROVED I CHECKED B

COVER SHEET

PROJECT NO.

G-001

SHEET INDEX:

COVER SHEET G-001 **GENERAL NOTES** C-001 **QUANTITY SHEET** C-002 V-101 **EXISTING CONDITIONS** CD-101 **DEMO & STAGING PHASE DEMO & STAGING PHASE II** CD-102 CP-101 **CONSTRUCTION PLAN CENTERLINE ALIGNMENT** CP-102 CU-501 CONSTRUCTION DETAILS CU-502 CONSTRUCTION DETAILS (2) CU-503 CONSTRUCTION DETAILS (3) CONSTRUCTION DETAILS (4) CU-504 CU-505 CONSTRUCTION DETAILS (5) CONSTRUCTION DETAILS (6) CU-506 CU-507 CONSTRUCTION DETAILS (7) CU-508 CONSTRUCTION DETAILS (8) CU-509 CONSTRUCTION DETAILS (9) TRAFFIC CONTROL PLAN CD-401

ADJOINING PROPERTIES 2057 LAWRENCEVILLE HWY OWNER: DEKALB COUNTY DB 16306 PG 332 TAX PARCEL # 18 063 13 001 2821 ORION DR

OWNER: GREG FRADY DB 25375 PG 394 TAX PARCEL # 18 063 11 029 2827 ORION DR OWNER: ZHANG YING & MERLIN DIDIER DB 9971 PG 357

TAX PARCEL # 18 063 11 028 2833 ORION DR OWNER: SANDRA ALISA SCHEIN DB 9688 PG 313 TAX PARCEL # 18 063 11 027

ZONING DISTRICT R-75 ZONING CASE # N/A

WEEK

INSTALL EROSION

CONTROLS

CLEARING AND

MAINTAIN EROSION

CONTROL STORM DRAIN, SS, &

ATERLINE INSTALLATION

FINAL LANDSCAPING (PERM. GRASSING)

CLEANUP / REMOVE

EC-103

DISTURBED AREA: TOTAL TRACT SIZE: **IMPERVIOUS AREA:**

EROSION CONTROL INITIAL & INTERMEDIATE (1) PLAN

EROSION CONTROL INTERMEDIATE (2) PLAN

EROSION CONTROL FINAL PLAN

21 SHEETS TOTAL

0.4 ACRES 0.4 ACRES 0.1 ACRES PCT OF TRACT IMP:

> BEGINNING OF STRUCTURE: LAT: 33.8026

LONG: -84.2735 END OF STRUCTURE:

LAT: 33.8024 LONG: -84.2734

LEVEL II CERTIFIED DESIGN PROFESSIONAL

START DATE **CONSTRUCTION SCHEDULE** COMPLETE DATE 11 12

DEKALB COUNTY BOARD OF COMISSIONERS DISTRICT 1 NANCY JESTER JEFF RADER DISTRICT 2 DISTRICT 3 LARRY JOHNSON DISTRICT 4 STEVE BRADSHAW DISTRICT 5 MEREDA DAVIS JOHNSON KATHIE GANNON DISTRICT 6 LORRAINE COCHRAN-JOHNSON DISTRICT 7

ENGINEER:

DEWBERRY

SUITE 100

678.537.8627

SAM FLEMING, PE

2835 BRANDYWINE ROAD

ATLANTA, GA 30341-4015

CONSTRUCTION LAYOUT WILL BE REQUIRED BY THE CONTRACTOR. ALL COSTS FOR THIS ITEM WILL BE INCLUDED IN THE PRICE BID FOR OTHER CONTRACT ITEMS.

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF WATER TO INCLUDE BUT NOT LIMITED TO BYPASS PUMPING, DEWATERING LOCALIZED DEWATERING TO CONTROL GROUNDWATER INFLOW, AND STREAM DIVERSION. $\,$ COSTS FOR CONTROL OF WATER SHALI BE INCIDENTAL TO COST OF ALL BID ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.

IF COMPETENT ROCK OR LARGE BOULDERS ARE ENCOUNTERED DURING STILLING BASIN CONSTRUCTION, CONTRACTOR SHALL CONSULT WITH OWNER/ENGINEER THE GEORGIA D.O.T. STANDARDS AND CONSTRUCTION DETAILS REQUIRED FOR THIS PROJECT WITH THE LATEST KNOWN REVISION DATE ARE INCLUDED AS PART OF THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ON TH

PROJECT SITE THE GEORGIA D.O.T. STANDARD DRAWINGS AND THE CONSTRUCTION DETAIL DRAWINGS. FULL SIZED SHEETS MAY BE PURCHASED BY THE CONTRACTOR AT HIS EXPENSE FROM THE GEORGIA D.O.T. CONTRACTOR TO REPAIR ANY SEPTIC AND/OR IRRIGATION LINES AND APPURTENANCES DAMAGED AS A RESULT OF CONSTRUCTION.

NO SEPARATE PAYMENT WILL BE MADE FOR DAMAGE TO SEPTIC AND/OR IRRIGATION LINES AND APPURTENANCES NOT ILLUSTRATED ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCIDENTAL TO THE

CONTRACT. DEKALB COUNTY IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS BY ENGINEERS OR OTHER DESIGN PROFESSIONALS ON DESIGN OR COUNTY CODE REQUIREMENTS FOR THIS PROJECT.

72 HOUR NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING.

NECESSARY BARRICADES. SUFFICIENT LIGHTS. SIGNS, AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE WIDENING OF AND CONSTRUCTION ON DEKALB CONTRACTOR SHALL PROVIDE MINIMUM 1-FT CLEARANCE BETWEEN THE OUTSIDE WALL OF THE PROPOSED REINFORCED

CONCRETE BOX CULVERT AND THE TOP OF THE 16-INCH GAS TRANSMISSION LINE. GAS LINE PROTECTION TO BE INSTALLED BY ATLANTA GAS LIGHT. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES CROSSING THE GAS LINE WITH ATLANTA GAS LITH ITV CONTACTS

	UTILITY CONTACTS	
<u>GAS</u>	WATER & SEWER	<u>POWER</u>
AGL RESOURCES CARLOS JAMES CARJAMES@SOUTHERNCO.COM	DEKALB COUNTY WATER & SEWER KERRY WILLIAMS 770-414-2367	R GEORGIA POWER LOCATING 404-506-6539
TELEPHONE	<u>DEKALB</u>	TELECOMUNICATIONS
AT&T DISTRIBUTION ANGELO HINES 305-409-1542	DEKALB COUNTY TRAFFIC & SAFET K. COLLINS KACOLLINS@DEKALBCOUNTYGA.GOV	Y COMCAST COMMUNICATIONS BRAD SEARS 770-559-6052
<u>TEL</u>	_ECOMTELECO	<u>DM</u>
NG N Stake (N CASTLE ZAYO FIB ETWORKS SOLUTION DEWAYNE 470-249	S TELECOM BEGLEY

MEASURES.

38. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED. 39. ALL TREE PROTECTION DEVICES ARE TO BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED.

40. NO PARKING, STORAGE, OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN THE TREE PROTECTION 1. ALL REQUIRED VEGETATION MUST BE MAINTAINED FOR TWO GROWING SEASONS AFTER THE DATE OF FINAL

INSPECTION. 42. ALL OTHER TREE PROTECTION AREAS TO BE PROTECTED FROM SEDIMENTATION.

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE 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

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

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN

THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. AL SUCH MATERIAL WILL BE DISPOSED OF USING PROPER WASTE DISPOSAL PROCEDURES.

DISCHARGES INTO, OR IS WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED, AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

OUTFALL LOCATION(S)	BASIN NAME	REACH NAME	LOCATION OF THE IMPAIRED STREAM SEGMENT AS INDICATED IN THE 305b/303d LIST	CRITERIA VIOLATED (BIO F OR BIO M)	POTENTIAL CAUSE (NP OR UR)	CATEGORY (4a, 4b OR 5)
LAT: 33.8026 LONG: -84.2734 :X. 57"X38" CMP	SOUTH FORK PEACHTREE CREEK	SOUTH FORK PEACHTREE CREEK	JUST DOWNSTREAM OF COWEN ROAD THROUGH CONFLUENCE WITH PEACHTREE CREEK	BIO F BIO M	UR	4A, 5

CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT, LABOR, AND MATERIAL FOR BYPASSING EXISTING SANITARY SEWER AND LATERALS (SERVICES) DURING CONSTRUCTION AND SHALL BE INCIDENTAL TO THE COST OF ALL BID ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.

CONTRACTOR SHALL SUBMIT A BYPASS PLAN SEALED BY A GA PROFESSIONAL ENGINEER TO DCDWM PRIOR TO PUMPING OPERATIONS. PUMPS SHOULD BE SIZED TO HANDLE PEAK DAILY FLOW (2.5 TIMES THE AVERAGE DAILY FLOW) FOR THE LINE OR AREA OF WORK. THE CONTRACTOR SHALL SECURE PUMPS FROM A PUMP SUPPLIER ACCORDING TO THE PROVIDED FLOW INFORMATION. PUMPING OPERATIONS MUST BE MONITORED 24 HOURS A DAY FOR EACH DAY OF THE PUMPING OPERATION BY QUALIFIED PERSONNEL IN ORDER TO RESPOND TO PROBLEMS OR FAILURES. 100% REDUNDANCY IS REQUIRED FOR PUMPING OPERATIONS. IN ADDITION, BACK UP PUMPS ARE TO BE CONNECTED TO THE BYPASS FORCE MAIN TO FACILITATE IMMEDIATE USE UPON FAILURE OF THE PRIMARY PUMPS.

CONTRACTOR SHALL PROVIDE AND TEST SANITARY SEWER MAINS PER DEKALB COUNTY STANDARDS. 14. A MINIMUM OF 48-INCHES COVER SHALL BE PROVIDED OVER ALL SANITARY SEWERS UNLESS OTHERWISE NOTED. PRIOR TO CONSTRUCTION OF WATER MAINS AND SANITARY SEWER LINES FINAL DESIGN APPROVAL MUST BE OBTAINED

CERTIFICATION STATEMENT

I CERTIFY THAT THIS EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN HAS BEEN PREPARED IN ACCORDANCE WITH PART IV GAR 100002.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

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 THE QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON 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.

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

SAMUEL I. FLEMING, PE LEVEL II CERTIFIED DESIGN PROFESSIONAL GSWCC CERTIFICATION NO. 22173

EXPIRES 11/09/2021

FROM DEPARTMENT OF WATERSHED MANAGEMENT.

Corrugated Plastic Pipe

Deed Book

Forcemain

Grate Inlet

Invert Elevation

Headwall

Ductile Iron Pipe

Drainage Easement

End Limited Access

Flared End Section

PB

PG

POC

PVC

RCP

SSE

Page

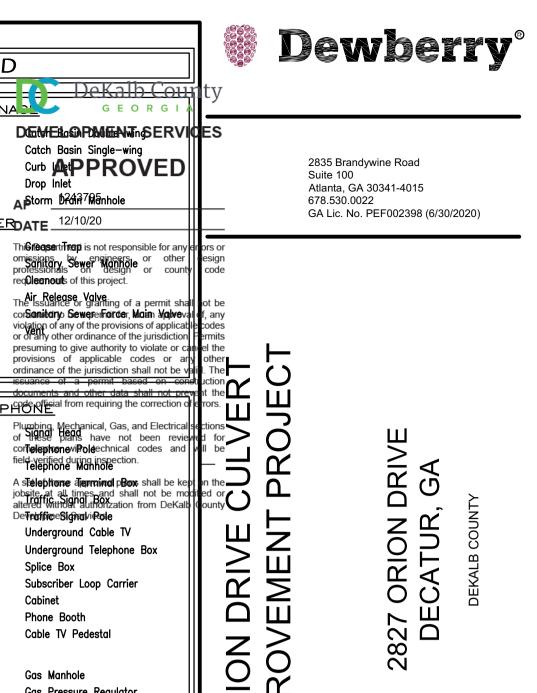
Reinforced Concrete Pipe

Sanitary Sewer Easement

Top of Wall

Yard Inlet

Vitrified Clay Pipe



Plat Book Point of Beginning Point of Commencement Polyvinyl Chloride Pipe

CONTACT INFO UPDATES 11/10/2020 4 PERMIT REVISIONS 02/21/2020 2/6/2019 100% PLAN SUBMITTAL 2 90% PLAN SUBMITTAL 11/30/2018 11/6/2018 1 60% PLAN SUBMITTAI DESCRIPTION

REVISIONS

TITLE

DRAWN BY APPROVED B' CHECKED BY DATE 11/10/2020

GENERAL NOTES

50088969

PROJECT NO.

2

3

Dewberry®

Dekalb County

Dekalb County

DEVELOPMENT SERVICES

APPROVED

AP 1243795
12/10/20

Atlanta, GA 30341-4015 678.530.0022 GA Lic. No. PEF002398 (6/30/2020)

This Department is not responsible for any er ors or omissions by engineers or other esign professionals on design or county code requirements of this project.

The issuance or granting of a permit shall of construed to be a permit for, or an approval of violation of any of the provisions of applicable or of any other ordinance of the jurisdiction. Fer presuming to give authority to violate or can be provisions of applicable codes or any ordinance of the jurisdiction shall not be valid issuance of a permit based on construction of the jurisdiction shall not prevent

Plumbing, Mechanical, Gas, and Electrical sof these plans have not been review compliance with technical codes and field-verified during inspection.

A set of these approved plans shall be kept jobsite at all times and shall not be modi altered without authorization from DeKalb

2827 ORION DRIVE DECATUR, GA

2835 Brandywine Road

REGISTER NO. 24406/REGISTER NO.

KEY PLAN

SCALE

5 CONTACT INFO UPDATES 11/10/2020 4 PERMIT REVISIONS 02/21/2020 3 100% PLAN SUBMITTAL 2/6/2019 2 90% PLAN SUBMITTAL 11/30/2018 1 60% PLAN SUBMITTAL 11/6/2018

REVISIONS

DRAWN BY

APPROVED BY

CHECKED BY

MI

DESCRIPTION

QUANTITY SHEET

DATE

SHEET NO.

PROJECT NO.

C-002

50088969

es Protection Center, Inc Know whats below Call before you dig.

Orion Drive Culvert Replacement **Quantity** Unit **Item Description Item Code** Traffic Control LS 150-1000 163-0232 **Temporary Grassing** AC 0.2 Construct and Remove Rock Filter Dam EA 163-0541 Maintenance of Temporary Silt Fence, TP C (Sensitive) 165-0030 750 LF Maintenance of Rock Filter Dam EA 165-0110 Temporary Silt Fence, TP C 171-0300 750 LF Clearing & Grubbing 201-1500 LS **Unclassified Excavation** 205-0001 575 CY Foundation Backfill Material, TP II CY 207-0203 60 In Place Embankment 250 CY 208-0100 320 310-5080 Gr Aggr Base Crs, 8-inch, Incl Matl SY 402-3113 Recycled Asph Conc 12.5 mm Superpave, GP1 or 2, Incl Bitum Matl & H Lime TN 35 402-3190 Recycled Asph Conc 19 mm Superpave, GP1 of GP2, Incl Bitum Matl & H Lime TN 432-0206 Mill Asph Conc Pvmt, 1 1/2 in Depth 320 SY Driveway Concrete, 6 in TK SY 441-0016 50 500-3200 Class B Concrete CY 10 Class A Conc INCL Reinf Steel (Three 6x3 RCB including WW and parapets) 130 500-3800 CY 550-1150 Storm Drain Pipe, 15 in, H 1-10 LF 35 550-4215 Flared End Section 15 in, Side Drain EA Rip rap, Type 3, 18" SY 603-2181 80 603-7000 Plastic Filter Fabric 375 SY Remove San Sewer Pipe, 8 in 610-1725 610-1840 Remove Asbestos Cement Pipe LF 50 643-0010 Field Fence Woven Wire 35 LF San Sewer Pipe, 8 in, Epoxy Coated Stainless Steel LF 660-0508 Water Main, 6" incl fittings, thrust restraint, and plugs 110 670-1060 EA 670-2060 Gate Valve, 6 in. 700-6001 **Grassing Complete** 702-0542 Crepe Myrtle Replacement EA

QUANTITIES ESTIMATE

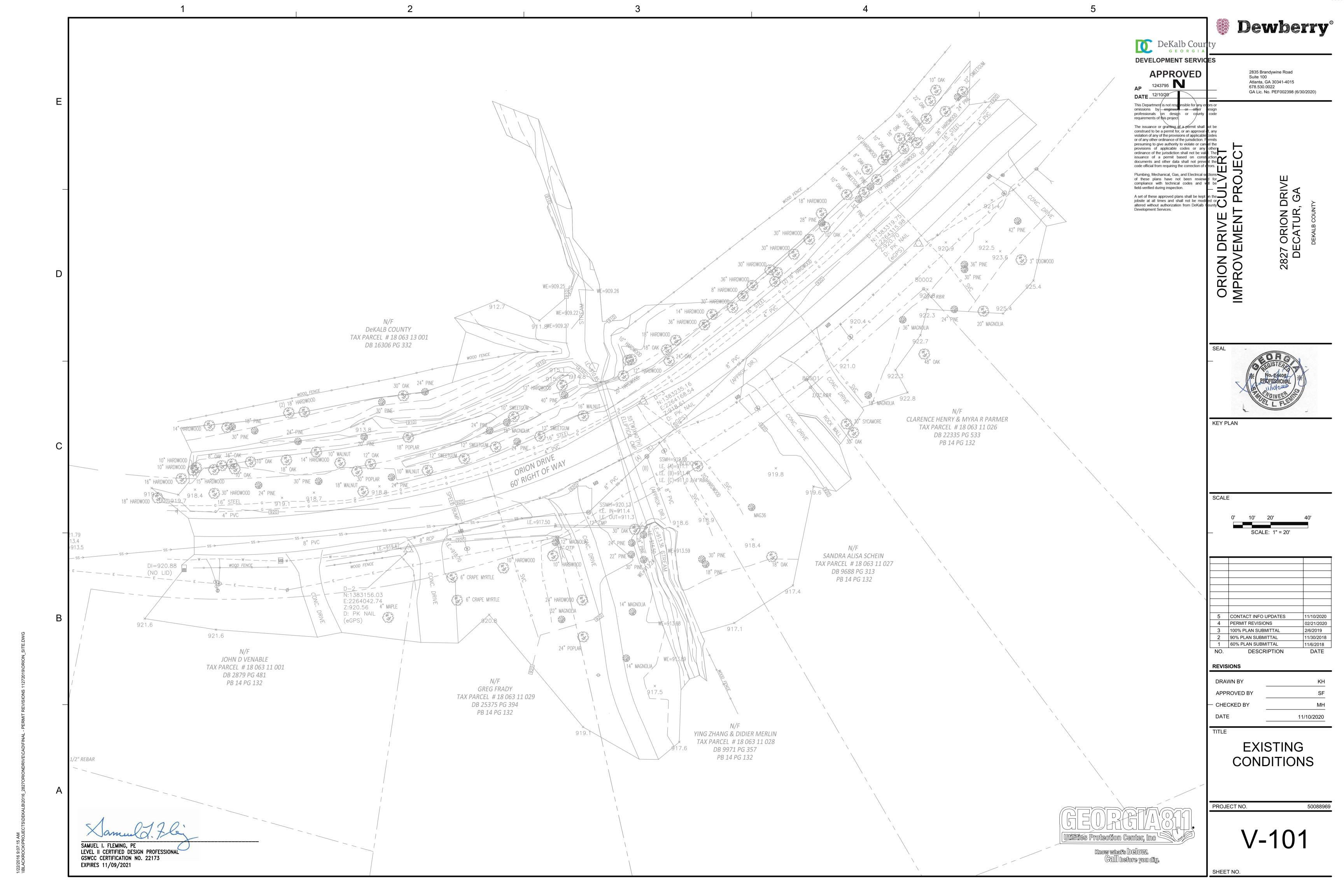
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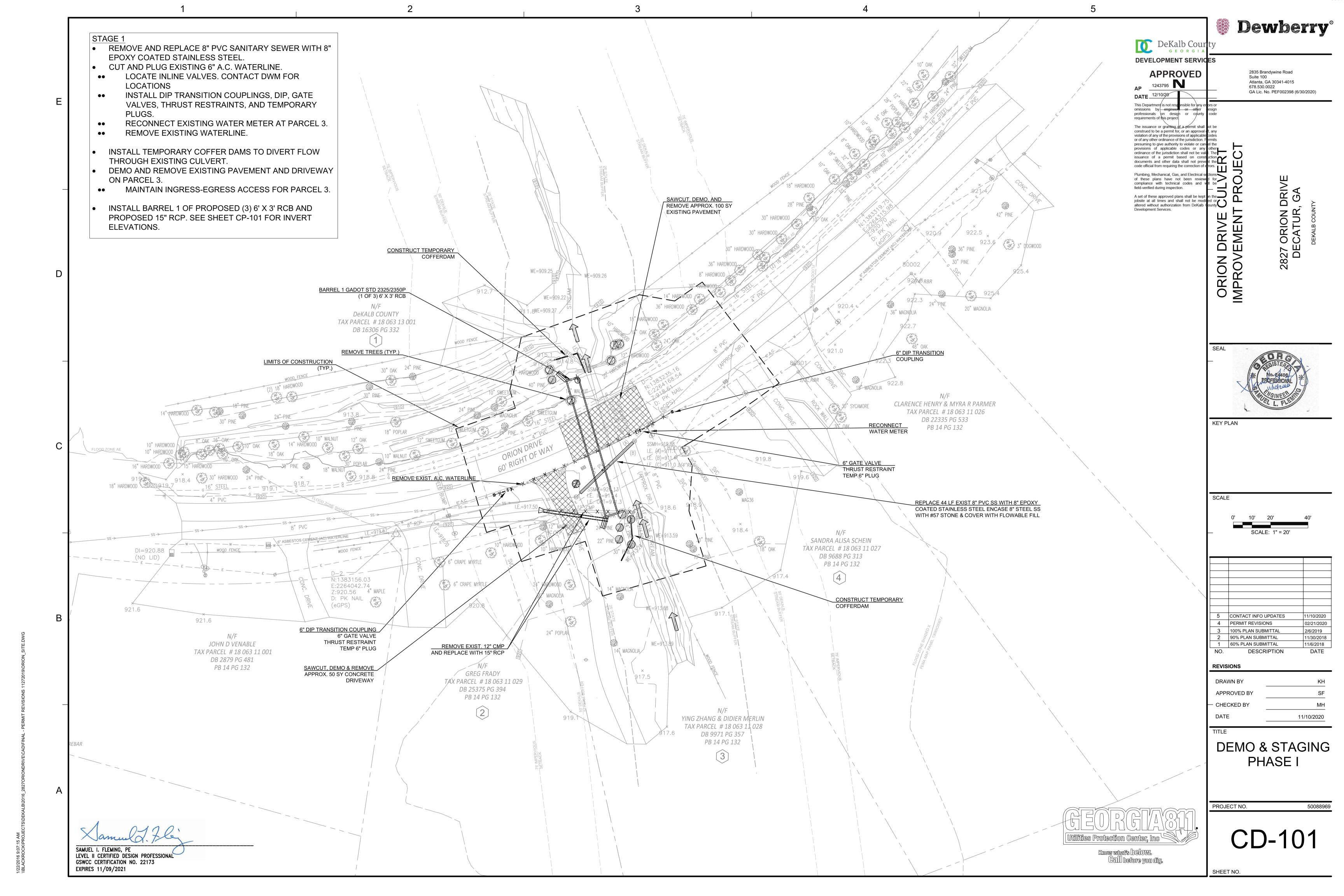
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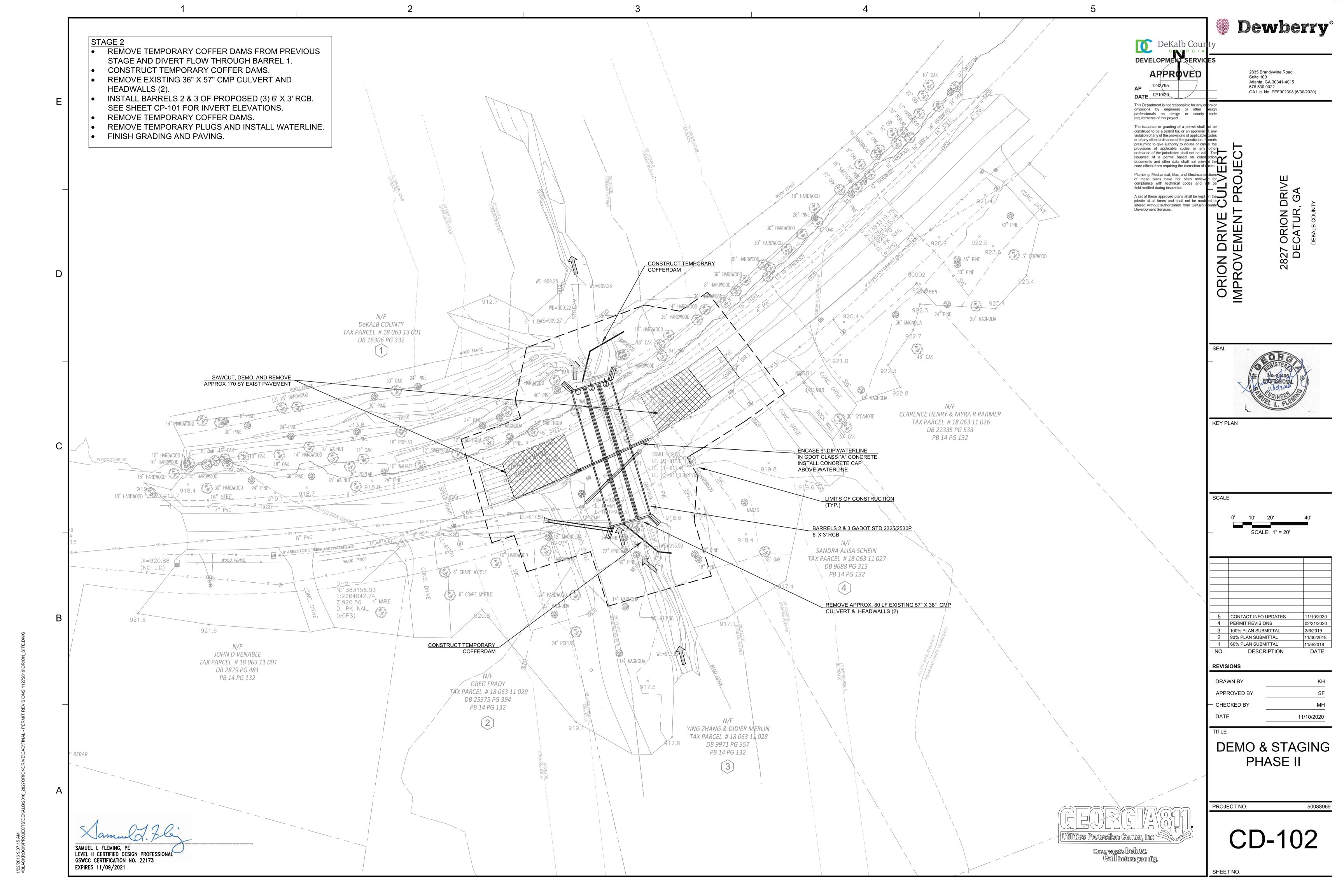
SAMUEL I. FLEMING, PE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWCC CERTIFICATION NO. 22173
EXPIRES 11/09/2021

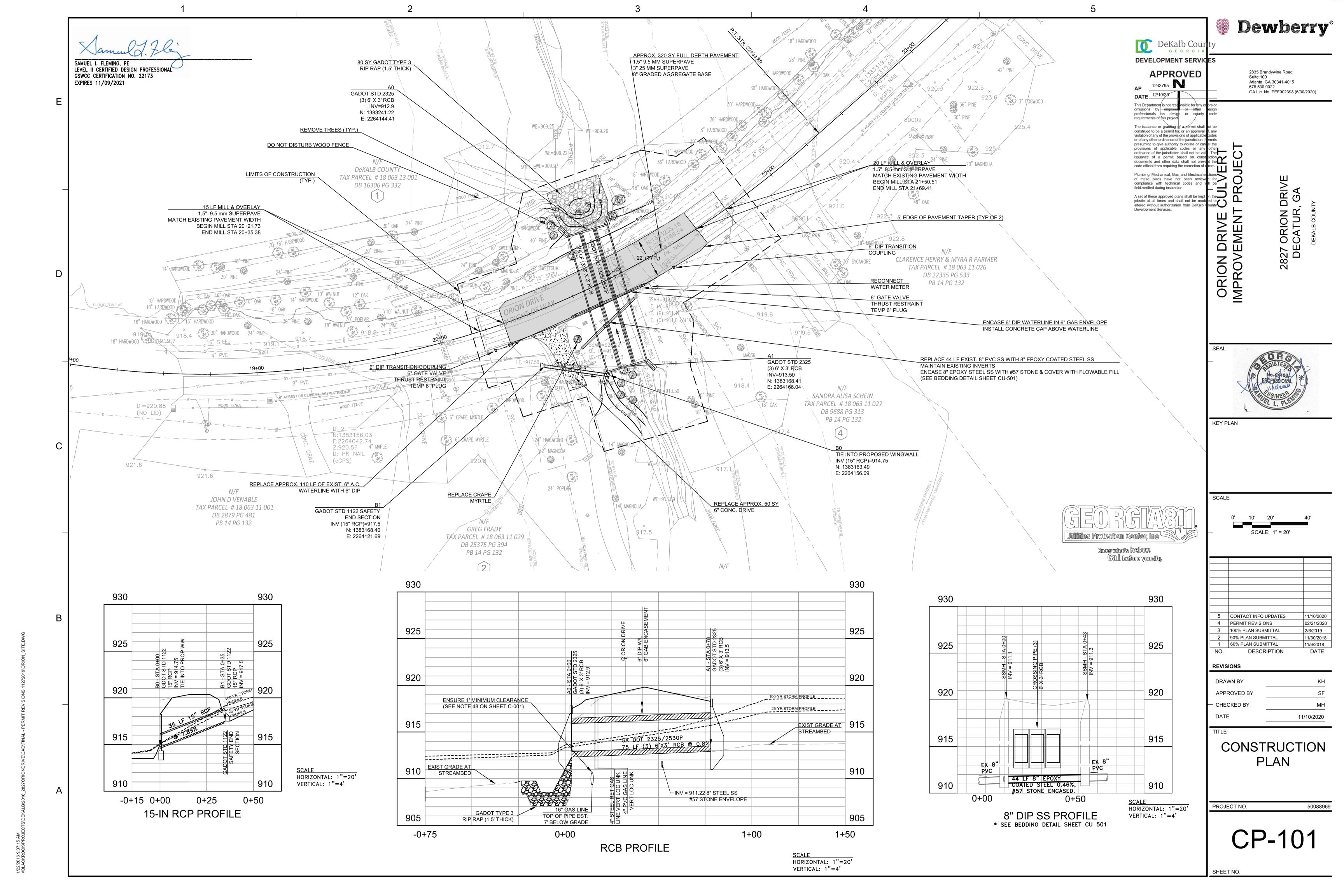
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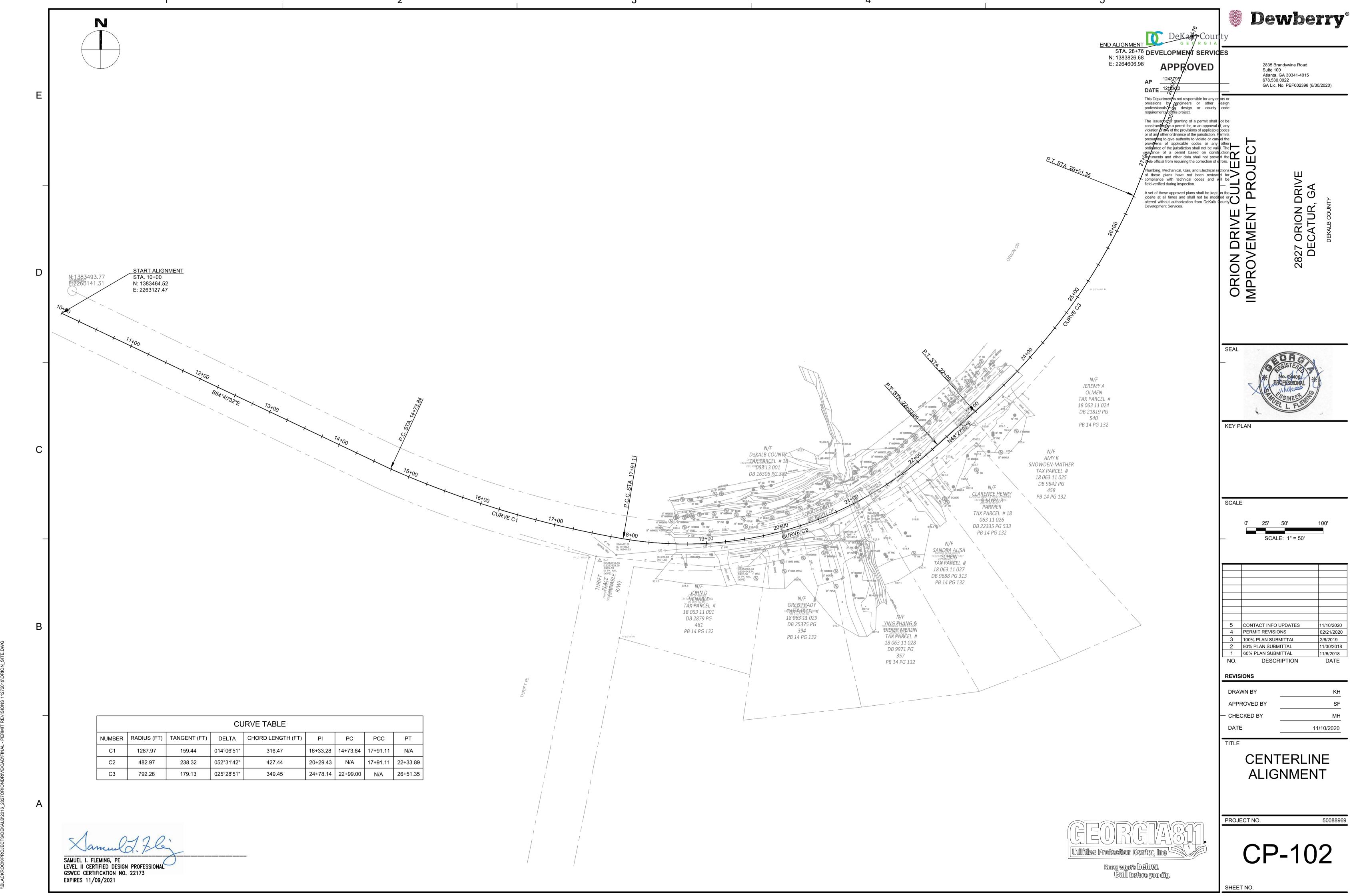
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:15 AM



DeKalb County GEORGI DEVELOPMENT SERVICES

> 2835 Brandywine Road **APPROVED** Suite 100 Atlanta, GA 30341-4015 1243795 678.530.0022 GA Lic. No. PEF002398 (6/30/2020)

DATE 12/10/20 This Department is not responsible for any er omissions by engineers or other professionals on design or county

requirements of this project. The issuance or granting of a permit shall of be construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes or of any other ordinance of the jurisdiction. presuming to give authority to violate or can el the provisions of applicable codes or any other provisions of applicable codes or any other ordinance of the jurisdiction shall not be valid. The

documents and other data shall not preve code official from requiring the correction o Plumbing, Mechanical, Gas, and Electrical se of these plans have not been reviewe compliance with technical codes and field-verified during inspection.

issuance of a permit based on cons

A set of these approved plans shall be kep jobsite at all times and shall not be mod altered without authorization from DeKalb Development Services.

ORION DRIVE IMPROVEMENT

DRIVE , GA ORION I

SEAL

KEY PLAN

SCALE

CONTACT INFO UPDATES 100% PLAN SUBMITTA 2 90% PLAN SUBMITTAL 11/30/2018

DESCRIPTION **REVISIONS**

DATE

1 60% PLAN SUBMITTAL

DRAWN BY APPROVED BY CHECKED BY

11/6/2018

11/10/2020

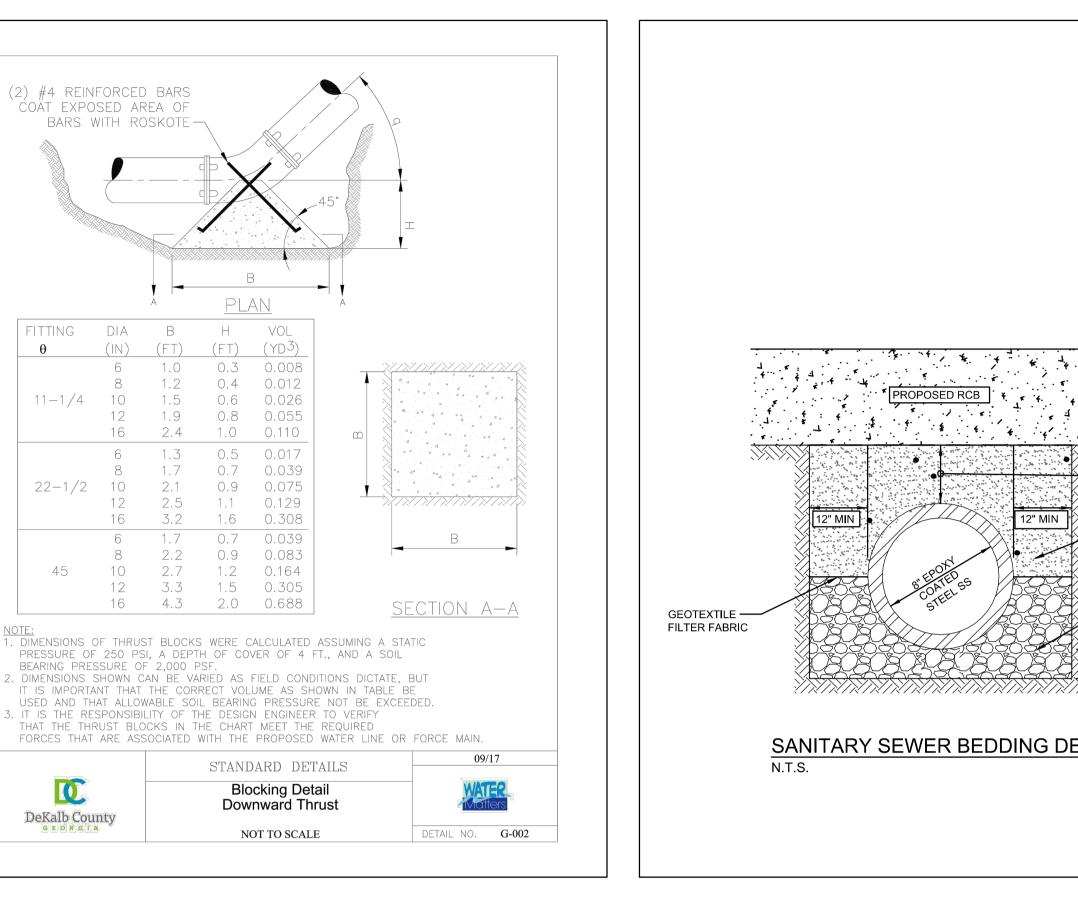
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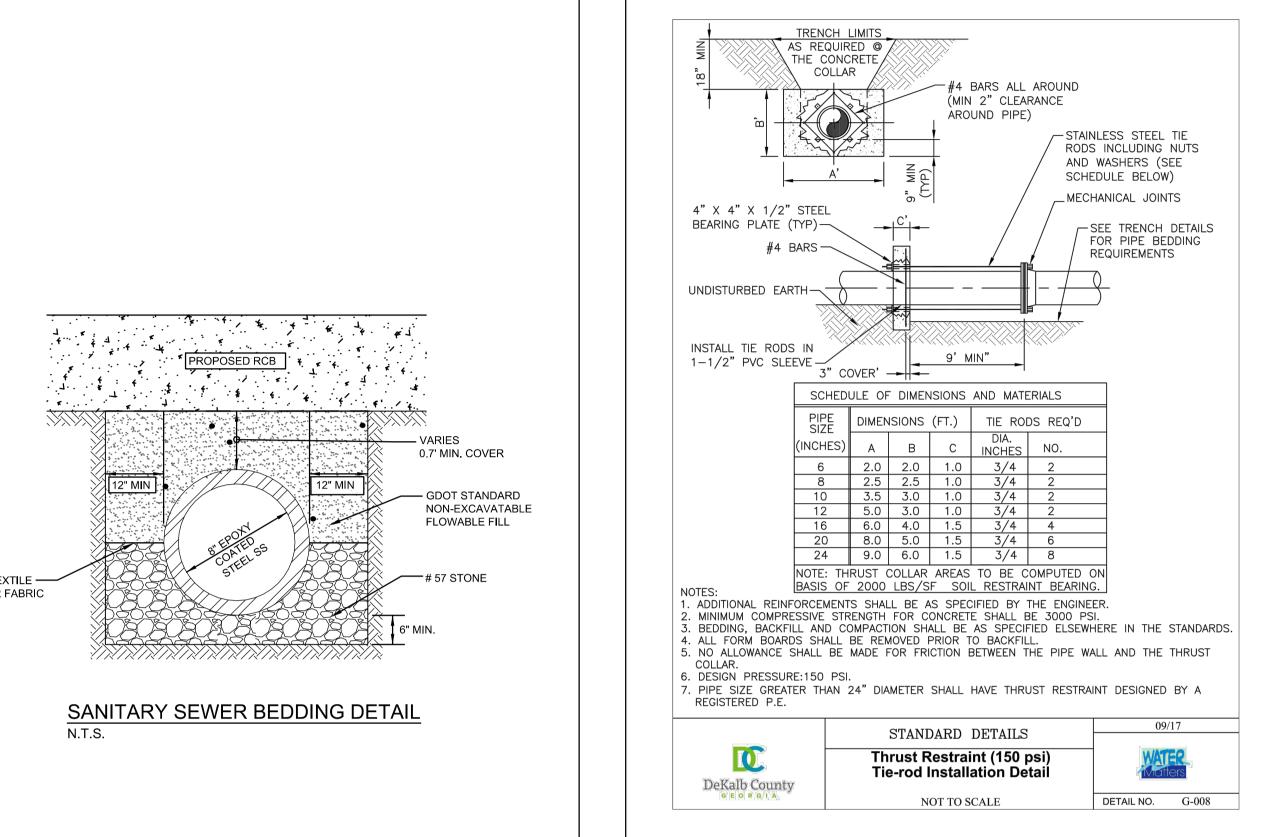
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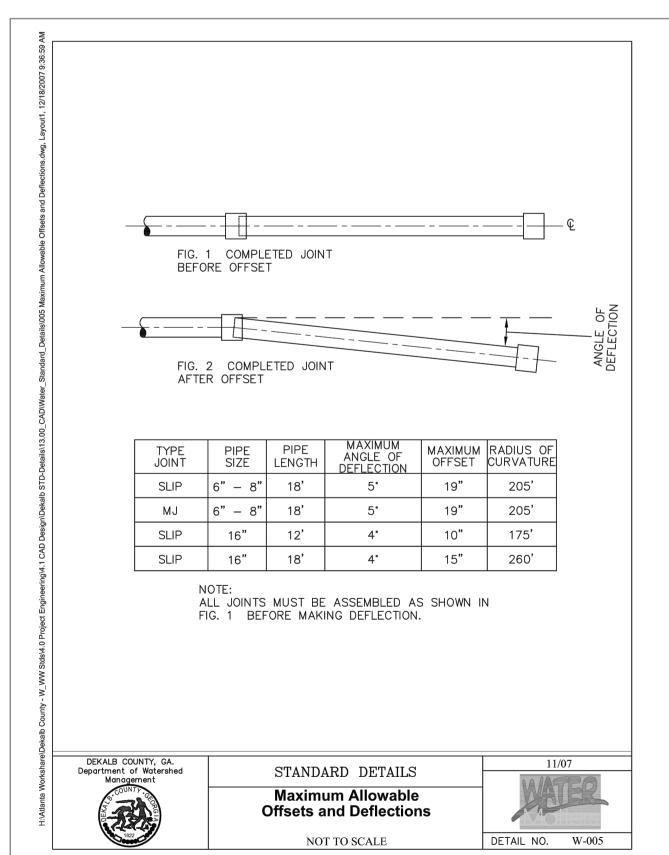
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PROJECT NO.

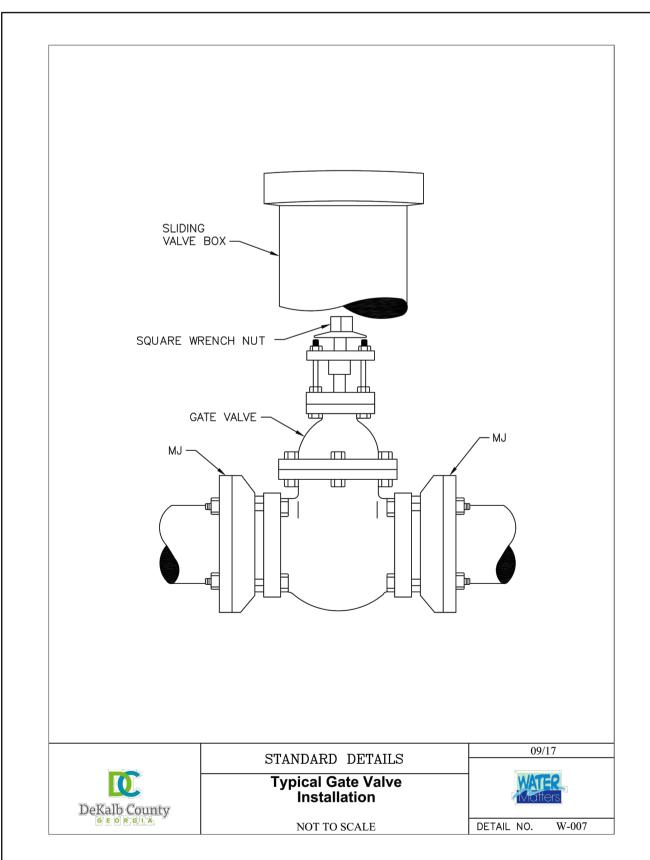
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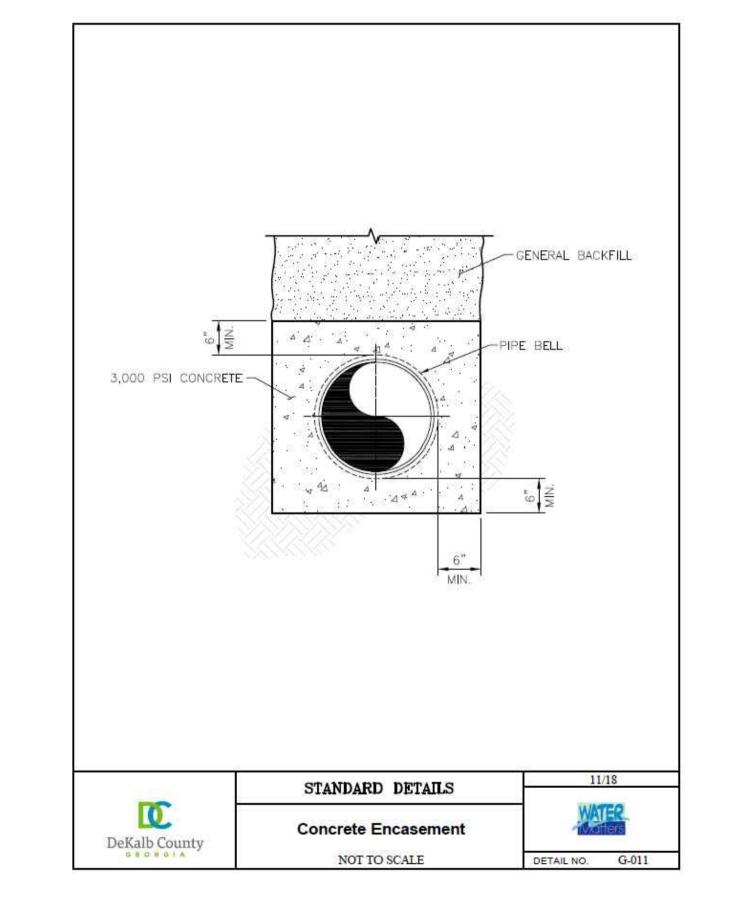






DeKalb County









- RUBBER GASKET

AND SLEEVE ASSEMBLY

END OF WATERLINE SLEEVE

BOTTOM VIEW

END OF WATERLINE PLUG

STANDARD DETAILS

End of Water Line

NOT TO SCALE

Plug & Sleeve Assembly

SIDE VIEW OF SLEEVE

TOP VIEW

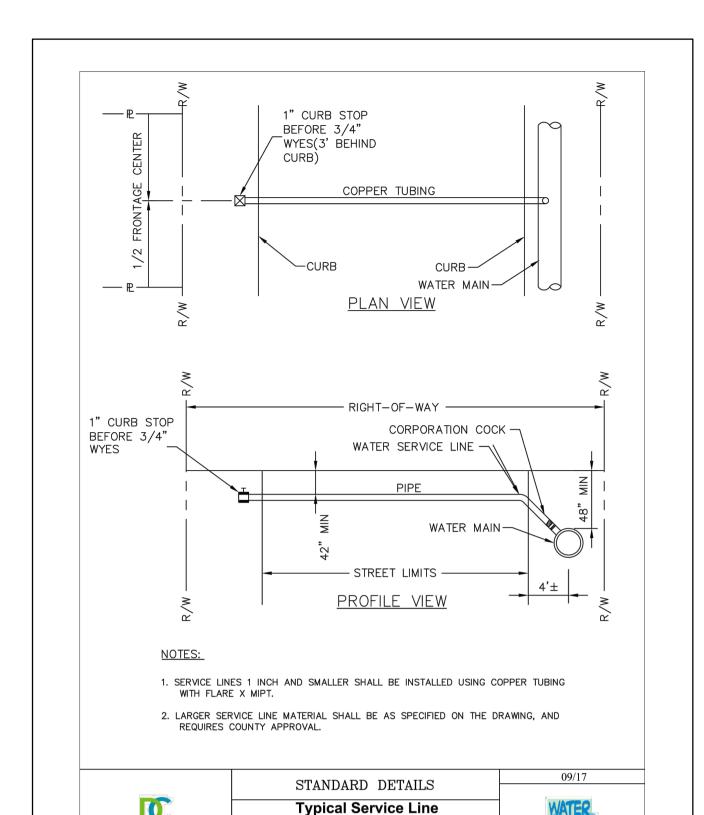
DETAIL NO. W-024

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END VIEW OF SLEEVE

SIDE VIEW

DeKalb County

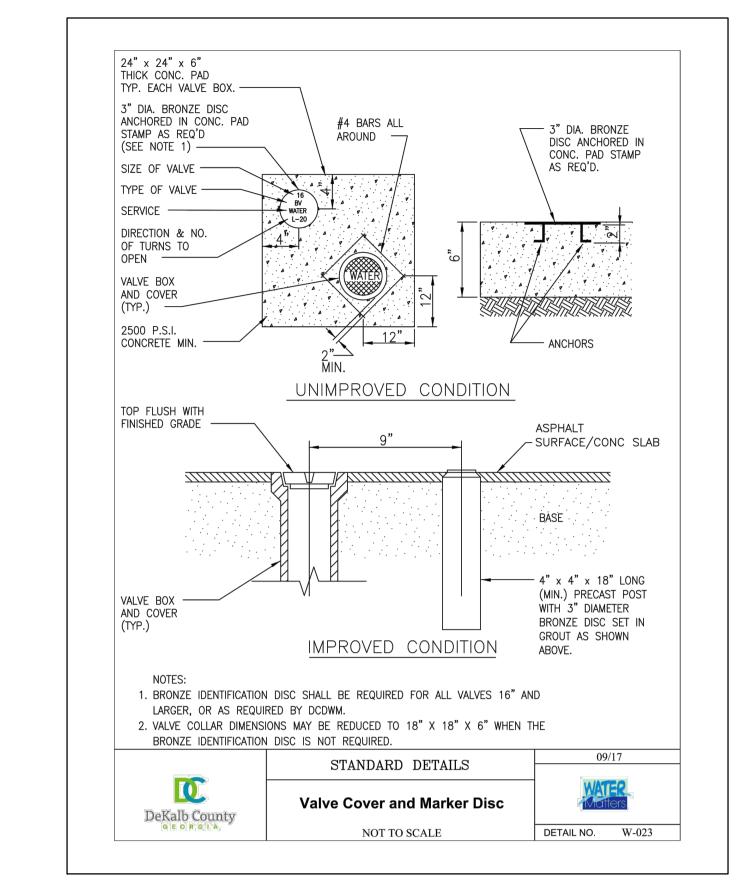


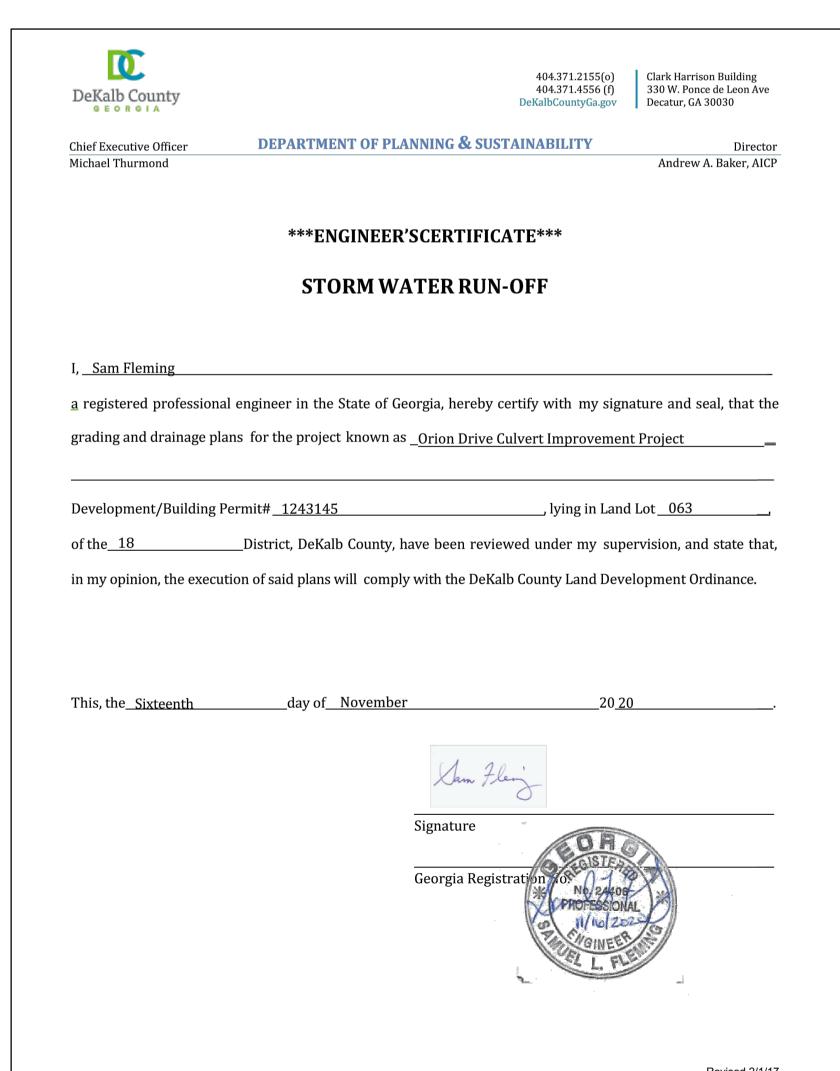
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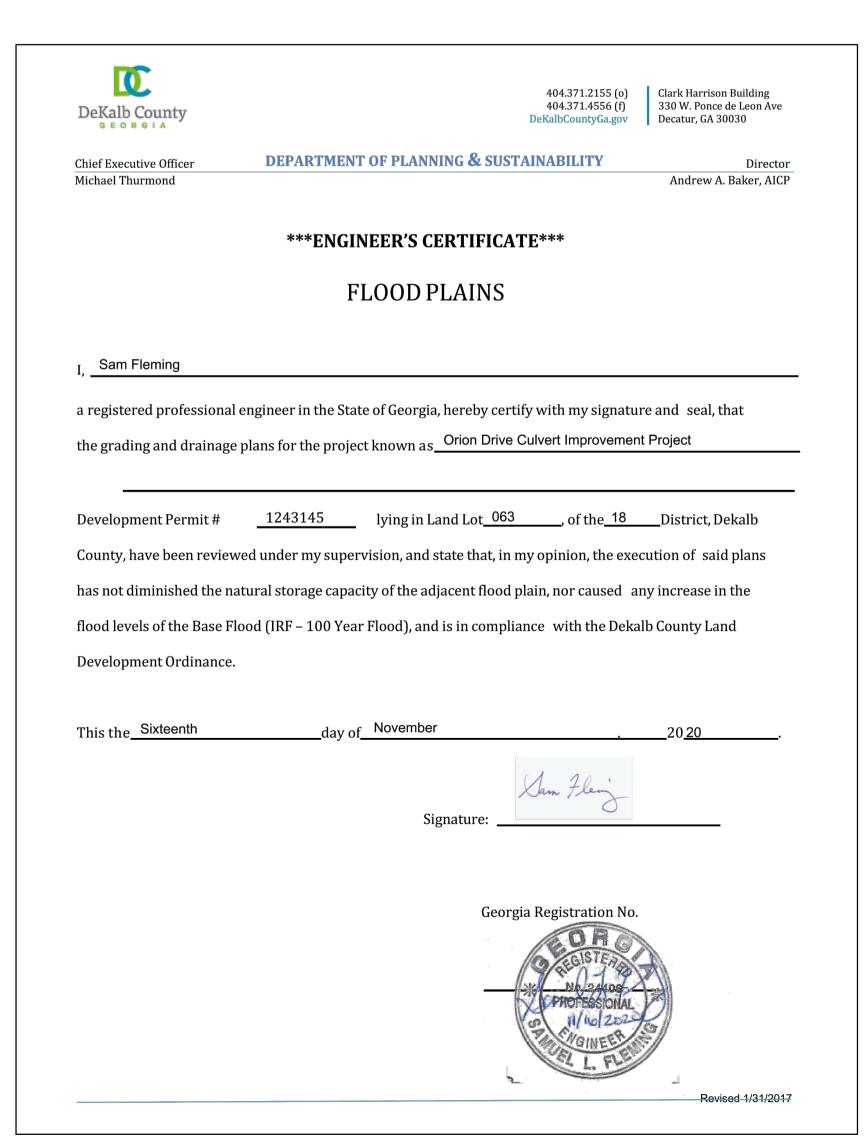
NOT TO SCALE

DETAIL NO. W-008

DeKalb County









Suite 100

678.530.0022

2835 Brandywine Road

Atlanta, GA 30341-4015

GA Lic. No. PEF002398 (6/30/2020)

DEVELOPMENT SERVICES

APPROVED

1243795 DATE 12/10/20

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Development Services.

SEAL



KEY PLAN

SCALE

REVISED CERTIFICATIONS CONTACT INFO UPDATES 3 | 100% PLAN SUBMITTAL 2/6/2019

11/30/2018

11/6/2018

50088969

DESCRIPTION **REVISIONS**

2 90% PLAN SUBMITTAL

1 60% PLAN SUBMITTAL

DRAWN BY APPROVED BY - CHECKED BY DATE 12/7/2020

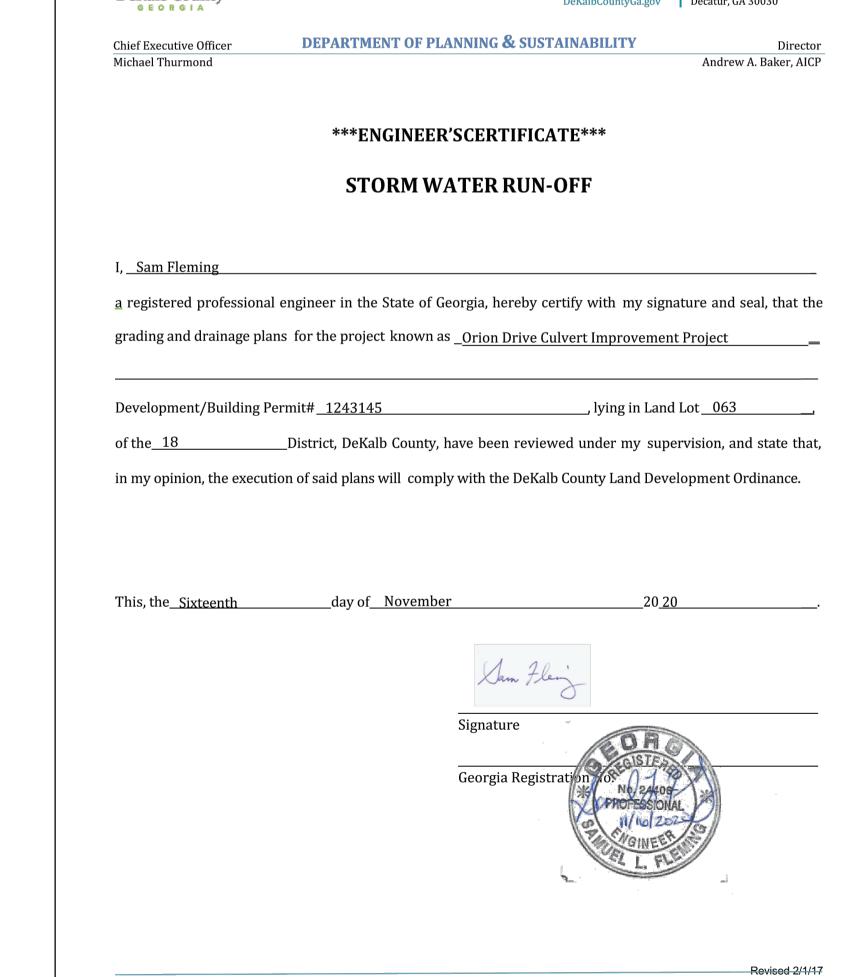
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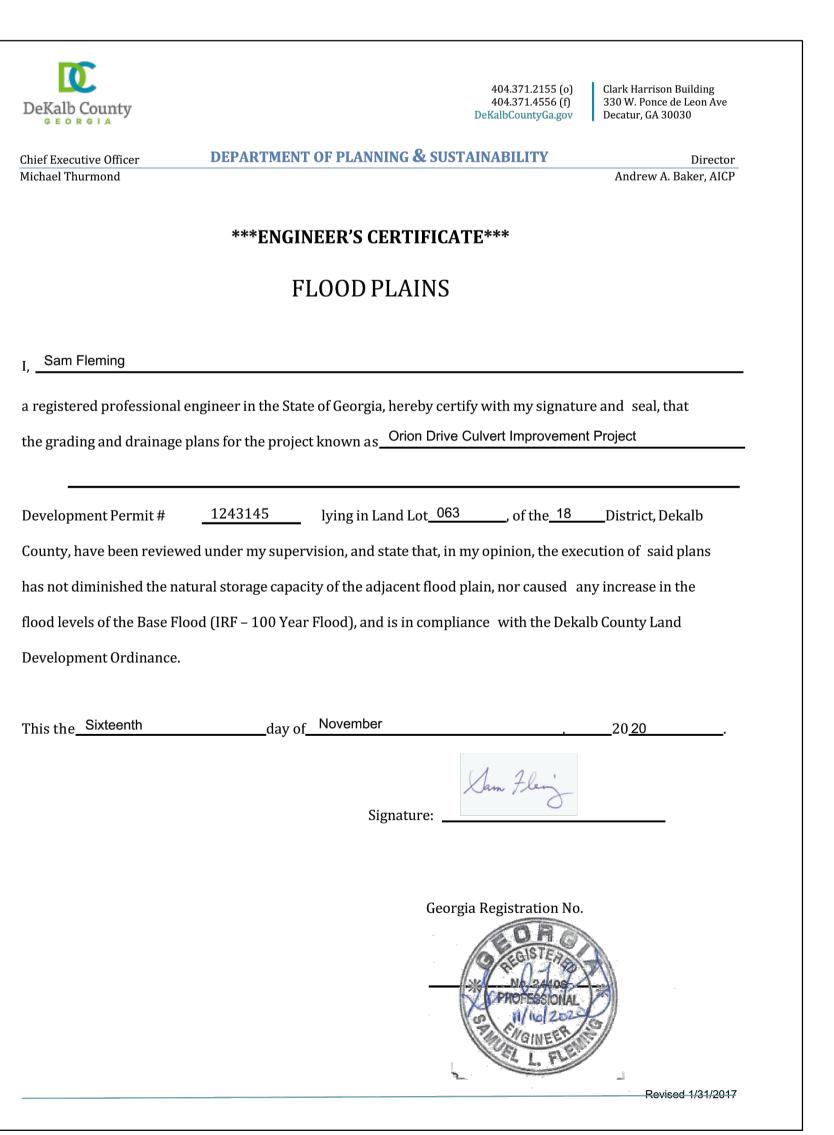
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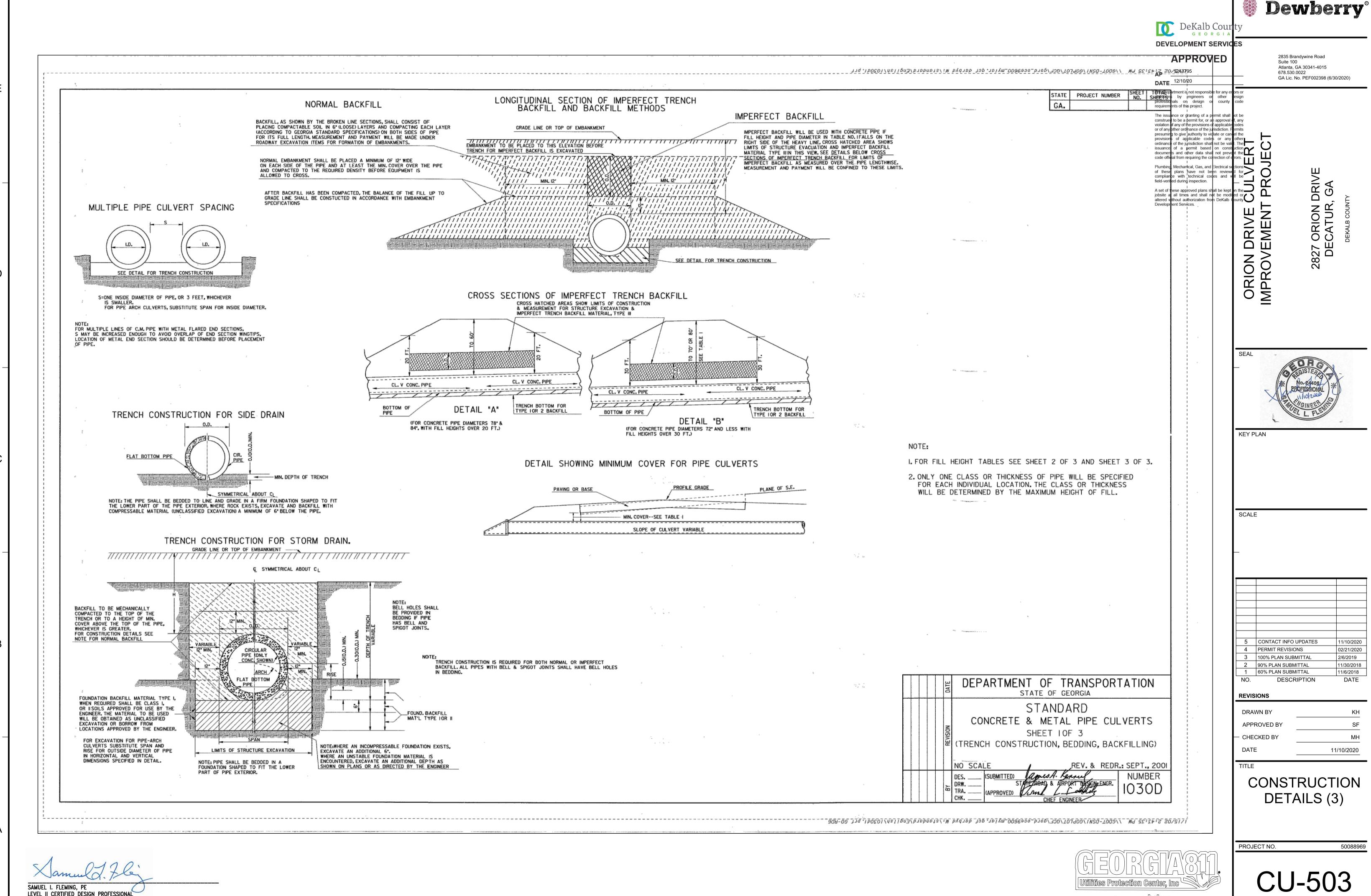
Know what's below. Call before you dig. SHEET NO.

Itilities Protection Center, Inc

LEVEL II CERTIFIED DESIGN PROFESSIONAL GSWCC CERTIFICATION NO. 22173 EXPIRES 11/09/2021





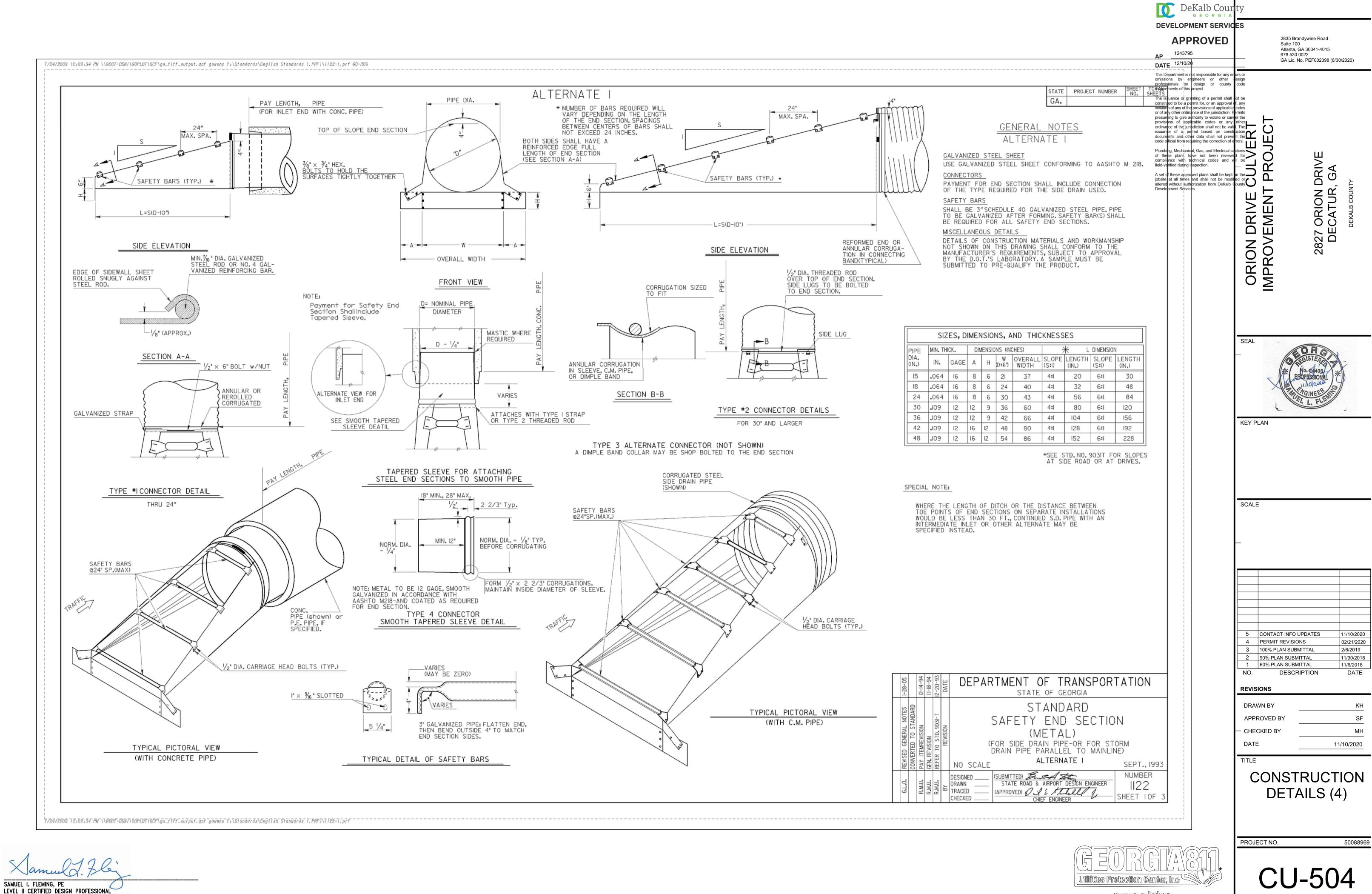


GSWCC CERTIFICATION NO. 22173

EXPIRES 11/09/2021

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Gall before you dig.



GSWCC CERTIFICATION NO. 22173

EXPIRES 11/09/2021

Know what's below.

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Dewberry

Dewberry° DeKalb County 72372004 4:09:08 PM XGDOT-DSN1\GOPLOT\GCF\GO_TIFE_OUTPUT.GCF\GOVENS \\GDOT-FS02\STANDARDS & PRF}\2325-1, PRF\GO-RD6 DEVELOPMENT SERVICES 2835 Brandywine Road SHEET APPROVED STATE PROJECT NUMBER Suite 100 Atlanta, GA 30341-4015 GA. 124379 678.530.0022 GA Lic. No. PEF002398 (6/30/2020) DATE 12/10/20 REINFORCING STEEL - BARRELS **DIMENSIONS** This Department is not responsible for any BARREL DESIGN NO. 2 BARREL DESIGN NO. I omissions by engineers or other professionals on design or county BARREL BARREL FOR ALL LEAR EIGHT FOR 12.1 TO 20.0 DEPTH OF FILL FOR 1.5' TO 12.0 DEPTH OF FILL OVER BBL. INCL. PAVING DESIGN NO. 2 **DESIGNS** DESIGN NO. The issuance or granting of a permit shall "A" BARS "G" BARS "H" BARS "B"/2" DIA. "C"/2" DIA. "D"/2" DIA. "A" BARS "G" BARS "H" BARS "C"/2"DIA. "D"/2"DIA. "B"//2" DIA. construed to be a permit for, or an approval of, any violation of any of the provisions of applicable codes S 기포 or of any other ordinance of the jurisdiction. Fermits presuming to give authority to violate or cancel the provisions of applicable codes or any other ordinance of the jurisdiction shall not be valid. The issuance of a permit based on construction M W 2 code official from requiring the correction o 4'-6" 3'-4'' | 12''4'-6" 7" | 6" | 3'-8" | 3'-7" | 2'-2" 3'-4" | 12" Plumbing, Mechanical, Gas, and Electrical of these plans have not been review 3'-10" 7'-2" 4'-6" 4'-6" $7^{n} \mid 6^{n} \mid 4^{i}-2^{n} \mid 4^{i}-1^{n}$ 4'-|" 7'-6" 2'-6" 4'-6" 8" 3'-4" | 12" | 20 9'-2" 8' 4"-6" 3'-4" | 12" | 20 3'-7" | 2'-2" 7" | 6" | 3'-8" 2'-2" 9'-6" 9'-2" | 8" field-verified during inspection. 4'-6" 9'-2" 9'-2" 3'-10" 4'-6" " | 6" | 4'-2" | 4'-1" A set of these approved plans shall be ke 9'-8" | 8 4'-6" 8 4'-11" | 12" 9'-8" 4'-6" 4'-||" jobsite at all times and shall not be mo altered without authorization from DeKalb 5'-0" Development Service DRIVE 'EMEN' II'-2" II'-6" 5'-0" 3'-II" 12'-8" 3 | 13'-0" 5'-0" 4'-|" 11'-8" 5'-0" II'-8" 5'-0" 5'-0" 13'-10" 5'-0" 5'-0" 13'-8" |4'-|" 5'-0" 15'-4" 2. 15'-8" 5'-0" ORION I |3'||" 5'-0" 5'-0" 15'-11" 14'-4" ₹ 15′-7″ 13'11" 14'-4" 5'-0" 15'-11" 5'-0" 7'-8" 3'-10" 10'-8" 7'-8" 8" 3'-10" 7" | 6" | 4'-2" | 4'-1" | 2'-3\\/2" 8'-8" 3'-4" | 12" 13'-8" 8'-8" 3'-10" | 12" 13'-8" 8'-8" 8" 3'-8" 8'-8" 8' 3'-10" | 4'-1" | 2'-31/2" 7" | 6" | 4'-2" 2'-31/2" | 14'-0" 4'-4" 8'-10" 14'-4" 8'-10" 18'-3" 17" 6'-8" 17'-5" |14' 9'-8" 3'-5" | 12" . 18'-10" 9'-8" 17'-5" 9'-8" 18'-3" 18'-10" 9'-8" 18'-2" 19'-0" 9'-10" 일 19'-6" 9'-10" 18'-2" 9'-10" 19'-0''≥ 19'-6" 9'-10" 4"-1" 21'-8" 22'-5" 20'-9" |15 10'-9" 10'-9" 91/2" | 7" | 4'-7" | 4'-31/2" $|0_1 - |0_1|$ 3'-8" 11,-0" $8\frac{1}{2}$ " 9" $7^{\prime}-5$ " $7^{\prime}-2\frac{1}{2}$ " $4^{\prime}-2$ " $9\frac{1}{2}$ " $9^{\prime\prime}$ $7^{\prime}-7$ " $7^{\prime}-3\frac{1}{2}$ " $4^{\prime}-3\frac{1}{2}$ " $2|^{\prime}-0$ " $|0^{\prime}-6|^{\prime\prime}$ $|3^{\prime}-0|^{\prime\prime}$ $|22^{\prime}-1|^{\prime\prime}$ QUANTITIES REINF. STEEL CONCRETE SPAN CLEAR HEIGHT LBS. PER LINEAL U.YDS. PER WINGWALLS FT. OF BARREL LINEAL FT. & PARAPETS GENERAL NOTES OF BARREL WINGWALLS **KEY PLAN** DES. L CHAMFER - CHAMFER ALL EXPOSED EDGES ¾". PARAPETS DES. DES. CU YD Z NO. 2 TOTAL LBS. NO. 2 CONC. 2. APRON WALLS - APRON WALLS MAY BE OMITTED IF ENGINEER APPROVES. ENGINEER MAY HOOK "A" AND "G" BARS FOR ALSO REQUIRE BOTTOM SLAB TO EXTEND TO ENDS OF WINGS AND APRON PLACED AT THIS DESIGN 2 FOR 5' AND 6' 79.8 79.8 185 .481 | .481 | 7.92 | 1'-11" CLEAR HEIGHT THUS-80.9 .509 | .509 | 8.73 | 1'-11" 3. QUANTITIES - QUANTITIES FOR STEEL SHOWN ON THIS SHEET COMPUTED CONSIDERING "A"-BARS VARIABLE 92.2 92.2 .568 .568 8.56 ||"-|||" ALL A, B, C, D, G AND H BARS AS PART OF BARREL QUANTITIES. STEEL PER LINEAL FOOT IS AN AVERAGE VALUE FOR A CULVERT OF 40' LENGTH ALLOWING ONE LAP IN .596 .596 9.37 |'-||" 217 93.2 93.2 "E"-BARS LONGITUDINAL BARS. .778 | .778 | ||.66 ||'-||\|/2" 100.0 296 "G"-BARS 104.8 99.1 196 .690 | .761 | 9.24 |₁'-₁₁/₂" 4. SIZE OF CULVERT - IN DESIGNATING SIZES OF CULVERTS STATE CLEAR SPAN FIRST. I.E., A 6'X 4' CULVERT HAS A 6' CLEAR SPAN AND A 4' CLEAR HEIGHT. .718 | .789 | 10.05 | | '-|| '/2" 100.1 223 SCALE FOR SIDE WALLS 16" FOR BARS IN TOP OF SLAB L = LENGTH OF CULVERT = DISTANCE BETWEEN BACKS OF PARAPETS. .944 |2.40 |2'-01/2" 113.4 | 106.3 301 .944 PAVEMENT. TI+II" FOR BARS IN BOTTOM 377 1.019 1.019 14.72 2'-01/2" 117.8 OF SLAB 5. COVER - CULVERT TO HAVE MINIMUM OF I.O'BELOW BOTTOM OF BASE OR CONCRETE 10.89 2'-01/2" "D"-BARS 122.8 228 .934 | 1.019 306 383 15.47 |2'-01/2" 131.9 | 138.9 1.183 BAR SUPPORTS - FOR CULVERT SIZES WHERE BARS "G" ARE NOT UTILIZED, 1.266 1.354 18.17 2'-01/2" 136.3 | 143.2 488 /2'-I" FOR BARS IN TOP OF SLAB BAR SUPPORTS ARE REQUIRED FOR POSITIONING OF SLAB BARS "H". 2'-6"-TIFOR BARS IN BOTTOM OF SLAB 2'-6" | 121.2 | 121.2 195 .688 | .688 | 9.15 | |1'-||" .725 .725 9.98 | 1'-11" 221 122.6 "C"-BARS *LENGTH SHOWN IN TABLE OF REINFORCING STEEL IS FOR 2'-6" | 144.3 | 144.3 203 .818 | .818 | 10.10 | 1'-11" ESTIMATING PURPOSES ONLY. DESIGN DATA .855 | .855 | 10.93 | 1'-11" 145.6 229 1.102 | 1.102 | 13.37 | 1'-111/2" 308 155.4 LOADING-H2O S-16-44 AND/OR MILITARY 152.0 1.000 |||_|| SPECIFICATIONS A.A.S.H.O. 1957, T-58 237 153.4 1.037 |||**.**95 ||'-|||/₂" 1.350 | 1.350 | 14.46 | 2'-01/2" 174.3 162.3 180.0 1.449 | 1.449 | 16.83 | 2'-01/2" 392 1/10/2020 CONTACT INFO UPDATES BENDING FOR "G"-BARS 1.354 1.479 13.18 2'-01/2" PERMIT REVISIONS 02/21/2020 1.507 1.635 15.44 2'-01/2" 324 196.9 208.6 BOX CULVERT REQUIREMENTS: 2/6/2019 100% PLAN SUBMITTA 1.685 1.815 17.98 2'-01/2" 5' 204.8 216.6 401 11/30/2018 2 90% PLAN SUBMITTAL MINIMUM FILL HEIGHT FROM TOP OF CULVERT TO BOTTOM OF 210.6 222.3 1.796 1.926 20.75 2'-01/2" 11/6/2018 506 1 60% PLAN SUBMITTAL BASE WITHIN TRAVELWAY SHALL BE 12 INCHES. DESCRIPTION DATE MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE DEPARTMENT OF TRANSPORTATION LENGTH OF THE CULVERT. REVISIONS TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN THE BARREL, NORMAL TO THE CENTERLINE OF CULVERT, AT THE STATE OF GEORGIA DRAWN BY KH OUTSIDE SHOULDER BREAK POINTS, LONGITUDINAL BARREL APPROVED BY REINFORCING STEEL SHALL NOT BE CONTINUOUS THROUGH THESE JOINTS, PROVIDED THAT THE JOINTS ARE MORE THAN IS STANDARD CHECKED BY MH FEET FROM THE BARREL ENDS. REINFORCED CONCRETE BOX CULVERTS WHEN TRANSVERSE CONSTRUCTION JOINTS OCCUR WITHIN IS FEET OF THE BARREL ENDS OR WITHIN THE LIMITS OF THE DATE 11/10/2020 DOUBLE 3'x2'-6" TO TRIPLE 6'x6' PAVEMENT, THE LONGITUDINAL BARREL REINFORCING SHALL THEN BE CONTINOUS THROUGH SUCH JOINTS. THE MINIMUM TITLE FOR DEPTHS OF FILL UP TO 20' FT. LENGTH OF LAP SPLICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES. CONSTRUCTION REV. & REDR. NOV., 2001 TRANSVERSE CONSTRUCTION JOINTS PLACED AT ANY OTHER LOCATION NOT SPECIFIED ABOVE SHALL BE FORMED WITH NO Dones A. Kerry NUMBER (SUBMITTED) DETAILS (5) DESIGNED LONGITUDINAL REINFORCING STEEL PASSING THROUGH THE STATE ROAD A AMPORT DESIGN INGINEER TRACED JOINTS. CHECKED. (APPROVED) REVISED SHEET LOF 2 PROJECT NO. 50088969

Utilities Protection Center, Inc

Know what's DOLOW.

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SHEET NO.

NBLACKROCKIPROJECTS/DEKALB\2016_2827ORIONDRIVE\CAD\FINAL - PERMIT REVISIONS 1127

SAMUEL I. FLEMING, PE

EXPIRES 11/09/2021

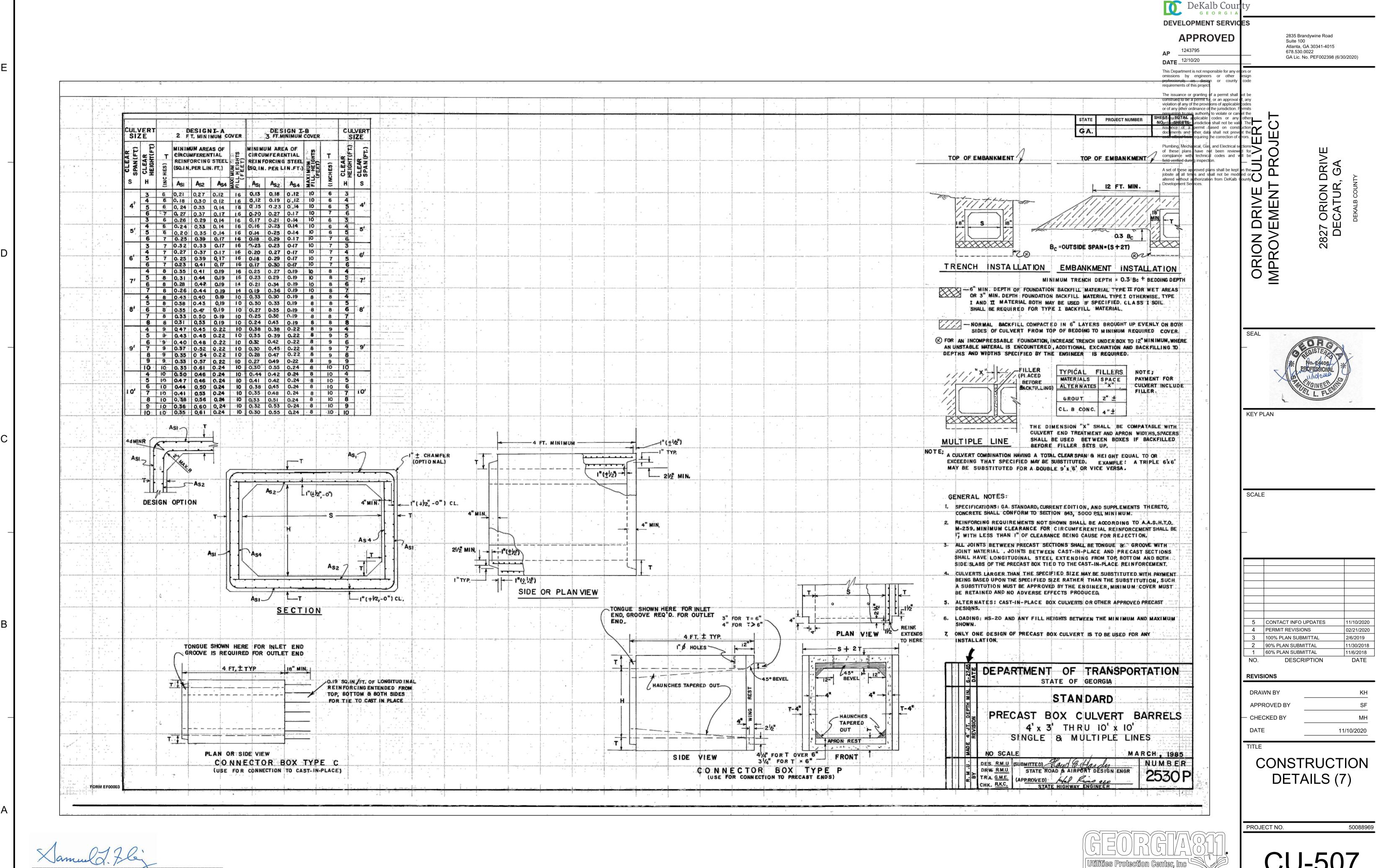
LEVEL II CERTIFIED DESIGN PROFESSIONAL

GSWCC CERTIFICATION NO. 22173

Dewberry

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SAMUEL I. FLEMING, PE LEVEL II CERTIFIED DESIGN PROFESSIONAL GSWCC CERTIFICATION NO. 22173 EXPIRES 11/09/2021



SAMUEL I. FLEMING, PE

EXPIRES 11/09/2021

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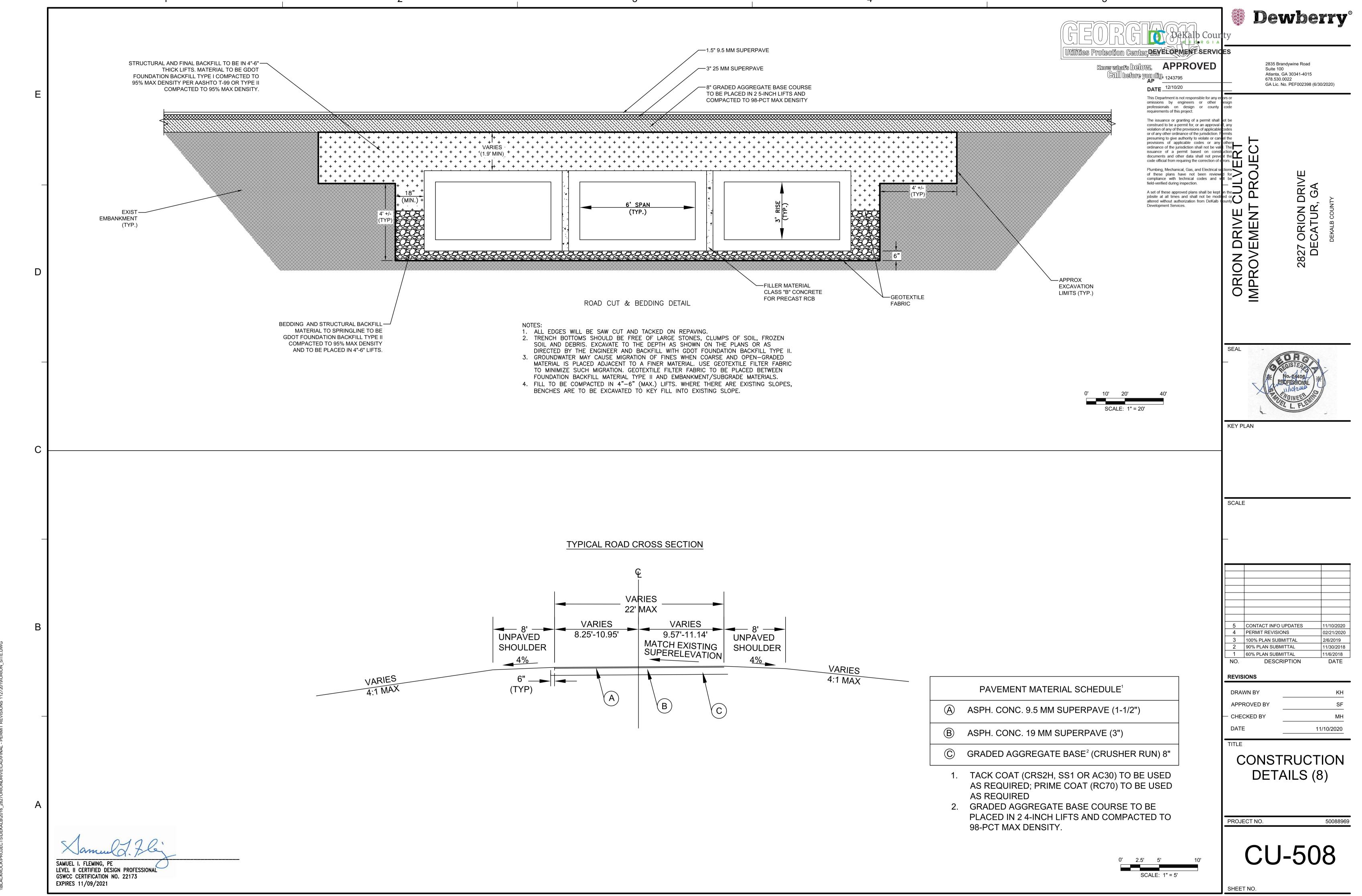
11/10/2020

02/21/2020 2/6/2019 11/30/2018 11/6/2018

SHEET NO.

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1/22/2016 9:07:15 AM

FOR SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES GEORGIA SOIL AND WATER CONSERVATION COMMISSION

GEORGIA SOIL AI	ND WATER	CONSERVAT	ION COMMIS

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM	THE STATE OF THE S	S	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION		77	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
<u>©</u>	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.
(c)	CONSTRUCTION ROAD STABILIZATION		٠ ننزي	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on—site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL		♦	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Ö	DIVERSION		arminet.	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	######################################	(m)	A flexible conduit of heavy—duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING	G		A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION	W.	J	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
G	GRADE STABILIZATION STRUCTURE		(Sr)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
(Z)	LEVEL SPREADER		\rightarrow	A storm flow outlet device constructed at zero grade across the slope whereby concentrated runoff may be discharged at a non-erosive velocity onto undisturbed areas stabilized by existing vegetation.
Rd	ROCK FILTER DAM		5	A temporary stone filter dam installed across drainageways or in conjunction with a temporary sediment trap.
Re	RETAINING WALL		Ro	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
<u></u>	RETRO	68	@~ -	A device or structure placed in front of a permanent stormwater detention pond outlet

truction site. It may be sandbags, bales of s

(sk) the surface of sediment ponds, traps, or basins

perpendicular to the direction of the runoff to

GSWCC 2016 Edition

enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING		S)	A temporary bridge or culvert—type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		8)	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		⊢(Su) ⊣	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		₹	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
(TP)	TOPSOILING	him is	ON CHEMES WORDS	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION	0	(DEMOTIE THEE CONTERNS)	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

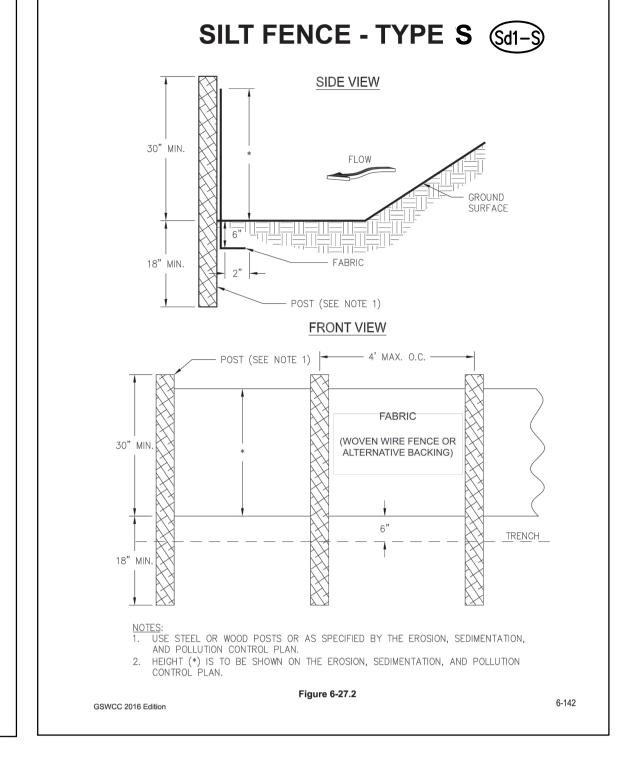
Substance formulated to assist in the solids/liqu

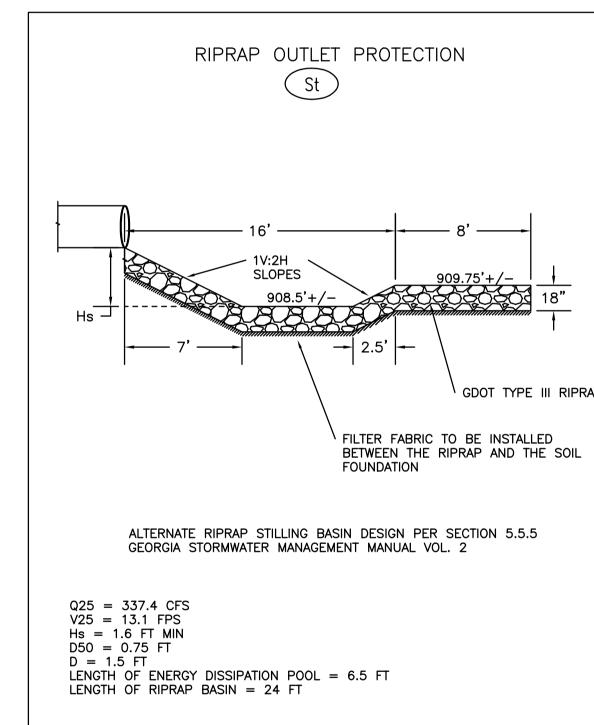
establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

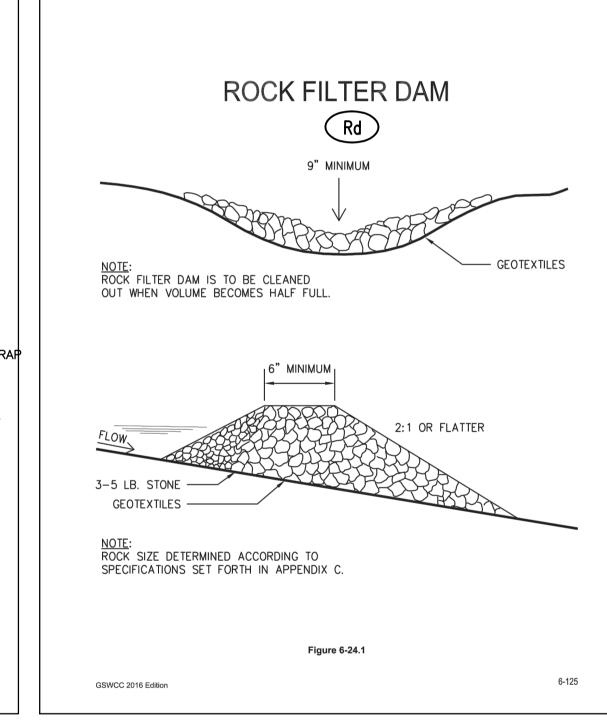
Substance used to anchor straw or hav mulch l

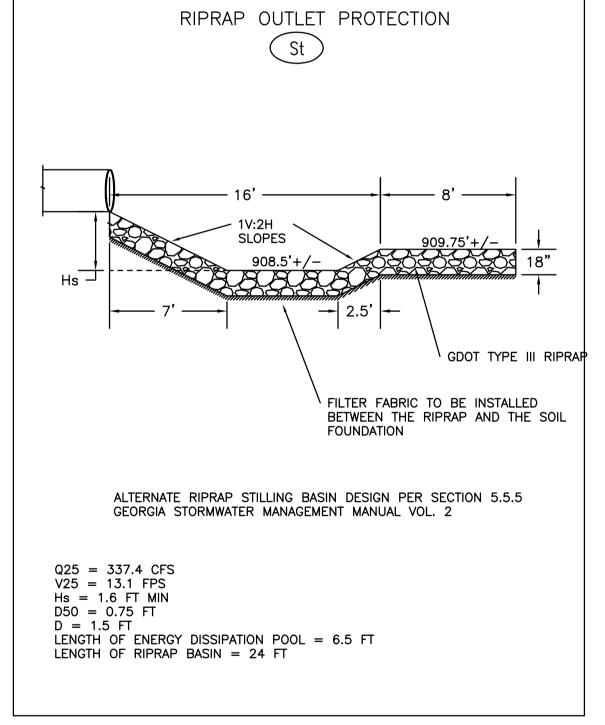
2-12

NOTES: 1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES). 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS. 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED 5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM. GSWCC 2016 Edition





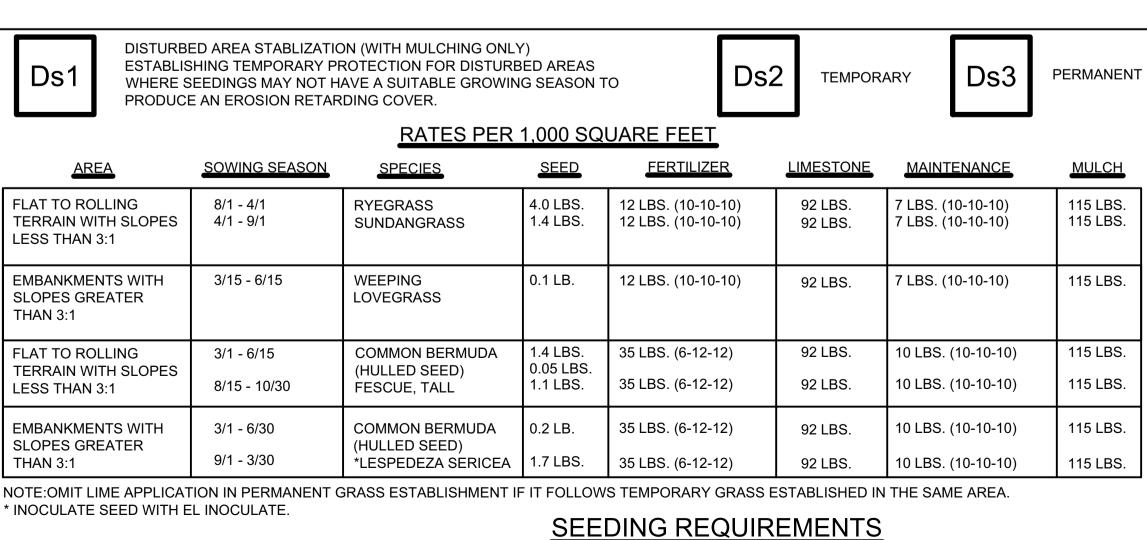




TREE PROTECTION (Tr.)

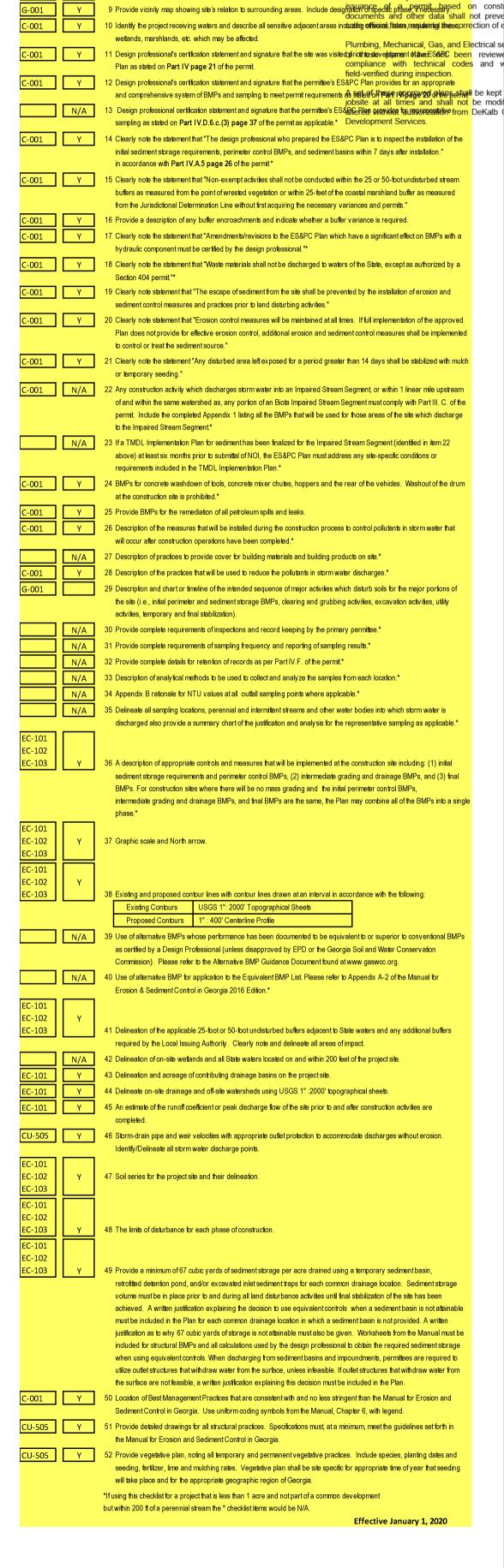
- SEE NOTE 1

✓ SEE NOTE 2



LEVEL II CERTIFIED DESIGN PROFESSIONAL GSWCC CERTIFICATION NO. 22173 EXPIRES 11/09/2021





EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

TO BE SHOWN ON ES&PC PLAN

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will Arbe reviewed)

2 Level II certification number issued by the Commission, signature and seal of the commission and sea

Date on Plans: 02/21/2020 Name & email of person filling out checklist: Sam Fleming sfleming@dewberry.conDEVELOPMENT SERVICES

he applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of Applicable

(Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
This Department is not responsible for any

The name and phone number of the 24-hour local contact responsible for erosion, reducing the responsible for erosion, reducing the responsibilities of the responsibilities and phone number of the 24-hour local contact responsible for erosion, reducing the responsibilities and phone number of the 24-hour local contact responsible for erosion, reducing the responsibilities and phone number of the 24-hour local contact responsible for erosion, reducing the responsibilities and phone number of the 24-hour local contact responsible for erosion, reducing the responsibilities and phone number of the 24-hour local contact responsible for erosion, reducing the reducing

⁷ Initial date of the Plan and the dates of any revisions made to the Plan including the centify who trequiested the centifying the control of the Plan including the centify who trequiested the centifying the control of the Plan including the centifying the centifying the centification of the Plan including the Centification of the Cent

provisions of applicable codes or a ordinance of the jurisdiction shall not be va

Project Name: Orion Drive Culvert Improvement Project

Address: 2827 Orion Drive, Dec the SA

of the year in which the land-disturbing activity was permitted.

Dewberry

2835 Brandywine Road Suite 100 Atlanta, GA 30341-4015 678.530.0022 GA Lic. No. PEF002398 (6/30/2020)

SCALE

CONTACT INFO UPDATES

PERMIT REVISIONS 100% PLAN SUBMITTAL 2/6/2019 2 90% PLAN SUBMITTAL 11/30/2018 1 60% PLAN SUBMITTAL 11/6/2018 DESCRIPTION

REVISIONS

DATE

DRAWN BY APPROVED BY CHECKED BY

CONSTRUCTION DETAILS (9)

11/10/2020

50088969

PROJECT NO.



EXPIRES 11/09/2021

