Z:\25412\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - CS.DWG - Aug 2, 2025 - 4:59 PM

SITE DEVELOPMENT PLANS

OF

PORT WENTWORTH RECREATIONAL COMPLEX

PHASE 2

PORT WENTWORTH, GA 31407

PREPARED FOR:

CITY OF PORT WENTWORTH

7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

TM# 7-0978-05-013

AUGUST 4, 2025

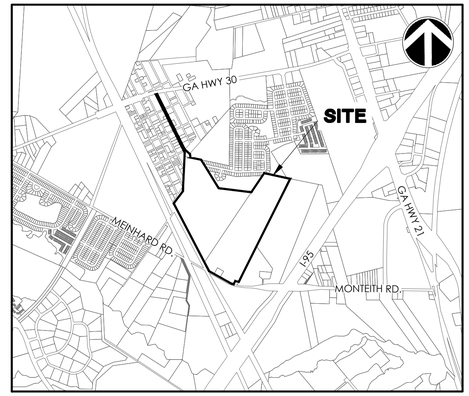
J-25412.0029

PREPARED BY:

THOMAS & HUTTON

Know what's below. Call before you dig.

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405
p.912.234.5300
www.thomasandhutton.com



VICINITY MAP
SCALE: 1" = 2000'

PORT WENTWORTH RECREATIONAL COMPLEX
PHASE 2

J-25412.0029
8/4/25

BID SET - NOT FOR CONSTRUCTION

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REVISION HISTORY

REV. NO.	REVISION	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

SUBMITTAL HISTORY

BID SET	8/4/25
SUBMITTED TO	DATE

Z:\25412.0029\DOMESTIC\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - GNLSHEET - A1.dwg, 8/20/2025 - 4:57 PM

ABBREVIATIONS

DBL	DOUBLE		FM	FORCE MAIN (SANITARY SEWER)		PC	POINT OF CURVE		TH	THROAT ELEVATION
BOT	BOTTOM		FP	FINISH PAD		PH	POST HYDRANT		TG	TOP OF GUTTER
CB	CATCH BASIN		FR	FRAME		PT	POINT OF TANGENT		TP	TOP OF PAVEMENT
CI	CURB INLET		GI	GRATE INLET		PVC	POLYVINYL CHLORIDE		TW	TOP OF WALK
CO	CLEAN OUT		GV	GATE VALVE		RC	ROLL CURB INLET		TYP	TYPICAL
CPP	CORRUGATED PLASTIC PIPE		HDPE	HIGH DENSITY POLYETHYLENE		RCP	REINFORCED CONCRETE PIPE		VI	VALLEY INLET
DBL	DOUBLE		HI	HOODED INLET		RI	ROOF INLET		W	WATER
DI	DITCH INLET		INV	INVERT ELEVATION		RJP	RESTRAINED JOINT PIPE		W/	WITH
DIP	DUCTILE IRON PIPE		JB	JUNCTION BOX		R/W	RIGHT-OF-WAY		WV	WATER VALVE
EL	ELEVATION		LF	LINEAR FEET		SD	STORM DRAINAGE		YI	YARD INLET
ES	END SECTION		MAX	MAXIMUM		SDMH	STORM DRAINAGE MANHOLE			
FES	FLARED END SECTION		MIN	MINIMUM		SF	SQUARE FEET			
FG	FINISH GRADE		MH	MANHOLE		SS	SANITARY SEWER			
FH	FIRE HYDRANT		OC	ON CENTER		TC	TOP OF CURB			

SEWER LEGEND

DESCRIPTION	EXISTING	PROPOSED
GRAVITY PIPE	SS	
SINGLE SERVICE LATERAL		
DOUBLE SERVICE LATERAL		
MANHOLE		
CLEANOUT		
FORCEMAIN	10"FM	10"FM
VALVE AND BOX		
FLUSH HYDRANT		
REDUCER		
BACKFLOW PREVENTOR		
CROSS		
TEE		
90° BEND - HORIZONTAL		
45° BEND - HORIZONTAL		
22½° BEND - HORIZONTAL		
11¼° BEND - HORIZONTAL		
BEND - VERTICAL		
PLUG \ CAP		

DRAINAGE LEGEND

DESCRIPTION	EXISTING	PROPOSED
PIPE		
DITCH		
CURB INLET (CI) CATCH BASIN (CB)		
CURB INLET - RIGHT (CI) OR CATCH BASIN - RIGHT (CB)	OR	OR
CURB INLET - LEFT (CI) OR CATCH BASIN - LEFT (CB)	OR	OR
CURB INLET - BOTH (CI) OR CATCH BASIN - LEFT (CB)	OR	OR
CONTROL STRUCTURE (CS)		
DITCH INLET (DI)		
GRATE INLET (GI)		
HOODED INLET (HI)	OR	OR
JUNCTION BOX (JB)		
MANHOLE (SDMH)		
ROLL CURB INLET (RC)		
ROOF INLET (RI)		
YARD INLET (YI)		
FLARED END SECTION (FES)		

WATER LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN	10"W	10"W
SINGLE SERVICE LATERAL		
DOUBLE SERVICE LATERAL		
VALVE AND BOX		
FIRE HYDRANT W/VALVE & BOX		
POST HYDRANT		
REDUCER		
BACKFLOW PREVENTOR		
CROSS		
TEE		
90° BEND - HORIZONTAL		
45° BEND - HORIZONTAL		
22½° BEND - HORIZONTAL		
11¼° BEND - HORIZONTAL		
BEND - VERTICAL		
CAP		

OTHER UTILITIES LEGEND

DESCRIPTION	EXISTING
NATURAL GAS	UGG
TELEPHONE	OHT
UNDERGROUND TELEPHONE	UTL
ELECTRICITY	OHP
UNDERGROUND ELECTRICITY	UGP

GENERAL INFORMATION

COUNTY CHATHAM COUNTY
CITY PORT WENTWORTH
ZONING R-A

OWNER:
CITY OF PORT WENTWORTH
7724 GA HIGHWAY 21
PORT WENTWORTH, GA 31704
912.964.4379

ENGINEER:
THOMAS & HUTTON
50 PARK OF COMMERCE WAY
SAVANNAH, GA 31405
912.234.5300

SURVEYOR:
THOMAS & HUTTON
50 PARK OF COMMERCE WAY
SAVANNAH, GA 31405
912.234.5300

UTILITY:
WATER - CITY OF PORT WENTWORTH, (912) 964-4379
SEWER - CITY OF PORT WENTWORTH, (912) 964-4379
POWER - GEORGIA POWER, (912) 306-2162
GAS - ATLANTA GAS LIGHT COMPANY, (912) 239-6526
TELEPHONE - AT&T TELECOMMUNICATIONS, INC., (912) 964-7346
CATV - COMCAST COMMUNICATIONS, (912) 658-6976

GENERAL NOTES

1. TOPOGRAPHIC AND BOUNDARY SURVEY INFORMATION PROVIDED BY THOMAS & HUTTON. ALL TOPOGRAPHIC INFORMATION IS BASED ON CONVENTIONAL SURVEY DATA. ELEVATIONS SHOWN ARE BASED ON NAVD 88, UNLESS OTHERWISE NOTED. COORDINATES AND DIRECTIONS SHOWN ARE BASED ON THE GEORGIA STATE PLANE, EAST ZONE, NAD83 COORDINATE SYSTEM.
2. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
3. IF WORK IS SUSPENDED OR DELAYED FOR 14 DAYS, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE DISTURBED AREA AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LOCAL UTILITY PROVIDERS BEFORE WORK COMMENCES. VERIFY UTILITIES WITHIN THE PROJECT LIMITS AND NOTIFY THE ENGINEER OF CONFLICTS OR VARIANCES TO THE PLANS PRIOR TO BEGINNING WORK OR PURCHASE OF MATERIALS.
5. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
6. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BRACING, SHEETING AND DEWATERING TO COMPLETE THE PROJECT. PROTECT THE CONSTRUCTION WORKERS AND ALL ADJACENT STRUCTURES, TREES, LANDSCAPING, AND IS RESPONSIBLE FOR ALL REPAIR AND COST TO RETURN AREA TO ORIGINAL CONDITION.
7. ALL UTILITY POLES ADJACENT TO PROPOSED CONSTRUCTION MUST BE SECURED PRIOR TO ANY ADJACENT DISTURBANCE AND THE CONSTRUCTION PROCEDURE MUST BE ACCEPTABLE TO THE UTILITY COMPANY.
8. CONTRACTOR TO DESIGN AND PROVIDE PLAN FOR SECURING POLES TO THE CITY AND UTILITY PROVIDER FOR APPROVAL.
9. CONTROL OF STORMWATER THROUGHOUT THE CONSTRUCTION PERIOD, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING DRAINAGE CONVEYANCES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL PENALTIES, CLAIMS AND FEES IMPOSED ON THE OWNER AS A RESULT OF DAMAGE CAUSED BY ACTIONS OF THE CONTRACTOR, THEIR EMPLOYEES OR SUBCONTRACTORS SHALL BE BORNE IN FULL BY THE CONTRACTOR.
10. ALL SUITABLE MATERIAL EXCAVATED SHALL BE USED ON SITE. ANY EXCESS MATERIAL SUITABLE OR UNSUITABLE SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
11. IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE THEIR OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED, WASTED, GRADED, AND COMPACTED. THE INFORMATION SHOWN ON THESE PLANS IN NO WAY GUARANTEES THE AMOUNT OR NATURE OF THE MATERIAL TO BE ENCOUNTERED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES AND MEASURES AS NECESSARY TO MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO OWNER FOR REVIEW AND ACCEPTANCE PRIOR TO STARTING CONSTRUCTION.
13. ALL WORK SHALL CONFORM TO APPLICABLE STATE, COUNTY AND MUNICIPAL REQUIREMENTS AND CODES.
14. THE CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
15. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN ACCEPTABLE WASTE DISPOSAL AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CONSTRUCTION DEBRIS.
16. ALL STORM DRAIN JOINTS ARE TO BE WRAPPED IN FILTER FABRIC.
17. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE PROPER PERMITS HAVE BEEN ISSUED.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
19. ALL MANHOLE TOPS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND SET MANHOLE TOPS RELATIVE TO FINISHED GRADES AS SHOWN ON THE DETAIL.
20. CONTACT THE ONE CALL LOCATE LINE AT 1-800-282-7411 A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING FOR LOCATION OF CITY WATER AND SEWER LINES, AND OTHER UTILITIES.
21. TREE PROTECTION BARRICADES, IF REQUIRED, SHALL BE INSTALLED PRIOR TO ANY CLEARING ACTIVITY AND MAINTAINED UNTIL INSTRUCTED BY THE OWNER OR ENGINEER TO REMOVE THEM.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING OF UTILITY EASEMENTS AS REQUIRED TO INSTALL THE IMPROVEMENTS AS SHOWN ON THE PLANS.
23. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION OF, AND FEES RELATED TO THE CITY OF PORT WENTWORTH ON VIDEO OF UNDERGROUND SANITARY SYSTEMS, AS WELL AS FOR THE UNDERGROUND STORM SYSTEM.
24. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR ACCEPTED EQUIVALENT WILL BE USED TO FORM A WATERTIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID.
25. DISCHARGE OF HIGHLY CHLORINATED WATER INTO SURROUNDING AREAS OR STORM DRAINAGE SYSTEM IS PROHIBITED. DISPOSAL OF HIGHLY CHLORINATED WATER SHALL COMPLY WITH THE REQUIREMENTS OF GEORGIA E.P.D. AND AWWA STANDARD C651, LATEST REVISION. IF REQUIRED BY THE ENGINEER, A REDUCING AGENT SHALL BE USED TO NEUTRALIZE THE CHLORINE.
26. CONTRACTOR NEEDS TO OBTAIN A RIGHT OF WAY PERMIT PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES IN CITY'S RIGHT OF WAY.
27. CITY OF PORT WENTWORTH HAS THE RIGHT TO ALWAYS ACCESS THE PROPERTY TO INSPECT STORMWATER FACILITIES.
28. THE WATER SERVICE LATERAL SERVING THE FACILITY SHALL BE INSTALLED BY THE DEVELOPER / CONTRACTOR FROM THE WATER MAIN TO METERS. THE CITY OF PORT WENTWORTH WILL ONLY MAKE A WET TAP. THE CITY WILL NOT INSTALL THE WATER SERVICE LATERAL.
29. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN ACCEPTABLE BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE CITY OF PORT WENTWORTH'S CONVEYANCE AND DISTRIBUTION DEPARTMENT.
30. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE CITY OF PORT WENTWORTH'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS.
31. AN ACCEPTABLE WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.
32. ALL MATERIALS USED WHICH COME INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY AFFECT DRINKING WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED TO CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61).
33. IN ALL WATER LINE PROJECTS, CARE WILL BE TAKEN TO KEEP INTERIOR OF WATER PIPE CLEAN PRIOR TO CONNECTION TO THE CITY SYSTEM. THIS WILL BE ACCOMPLISHED BY STRICT ADHERENCE TO FOLLOWING CITY SPECIFICATIONS:
    A. PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND FOREIGN MATTER AT ALL TIMES.
    B. ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY ACCEPTABLE MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR ACCEPTED EQUIVALENT, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.
    C. CLEAN THE INTERIORS OF ALL PIPE BY BRUSHING, SWABBING OR WASHING OUT OF ALL DIRT BEFORE LAYING.
    D. FLUSH THE NEW PIPE LINES UNTIL THE WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION. SPECIFY MINIMUM FLUSH TIME AND VELOCITY (2.5 FEET PER SECOND) WHICH ARE NECESSARY TO PURGE THE LINE OF ANY FOREIGN MATERIAL.
34. ALL OF THE CITY OF PORT WENTWORTH MAINTAINED DRAINAGE PIPE SYSTEM WITHIN PROJECT LIMITS SHALL BE CLEANED, TELEVISED, AND TAPED AFTER CONSTRUCTION. IN CASE ANY OF THESE PIPES NEED TO BE REPAIRED, RE-VIDEO TAPE SHALL BE SUBMITTED TO THE CITY OF PORT WENTWORTH FOR REVIEW.
35. ALL PAVEMENT MARKINGS IN THE RIGHT-OF-WAY ARE TO BE THERMOPLASTIC. ALL SIGNS IN THE RIGHT-OF-WAY ARE TO BE HIGH INTENSITY OR DIAMOND GRADE.
36. A MINIMUM VERTICAL SEPARATION OF 18" SHALL BE MAINTAINED AT ALL UTILITY CROSSINGS.
37. CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES APPLICABLE TO THE WORK.
38. LOADING, UNLOADING AND STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT, SHALL NOT BE DONE ON PUBLIC RIGHT OF WAY WITHOUT PRIOR APPROVAL BY THE CITY OF PORT WENTWORTH.
39. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AROUND PERIMETER OF SITE PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL ADJUST FENCE LOCATION AS REQUIRED FOR COMPLETION OF WORK. FENCE RELOCATION REQUIRED FOR CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL PAYMENT SHALL BE MADE. TEMPORARY CONSTRUCTION FENCE SHALL BE AN 8' HIGH CHAIN LINK FENCE.
40. AS-BUILT DRAWINGS (RECORD DRAWINGS) SHALL BE SUBMITTED TO THE CITY OF PORT WENTWORTH ENGINEERING DEPARTMENT AS REQUIRED BY THE WATER AND SEWER PRIVATE DEVELOPMENT PROJECTS CLOSEOUT POLICY. THE SIZE OF THE DRAWINGS SHALL BE 24" X 36". AS-BUILT DRAWINGS SHALL HAVE A COORDINATE SYSTEM BASED ON THE GEORGIA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), WITH SUB-METER ACCURACY. ELEVATIONS SHOWN SHALL BE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL MEASUREMENTS AND COORDINATES SHOWN SHALL USE THE U.S. SURVEY FOOT DEFINITION. COORDINATES SHALL BE SHOWN ON ALL DRAINAGE STRUCTURES, DETENTION FACILITIES, MANHOLES, VALVES, FIRE HYDRANTS, TEES AND BENDS.
41. CRANE LOCATIONS WILL NEED TO BE APPROVED AS PART OF THE CITY'S RIGHT OF WAY PERMIT PROCESS.

PREPARED FOR:

CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

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NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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Savannah, GA 31405 • 912.234.5300
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GENERAL NOTES AND LEGENDS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

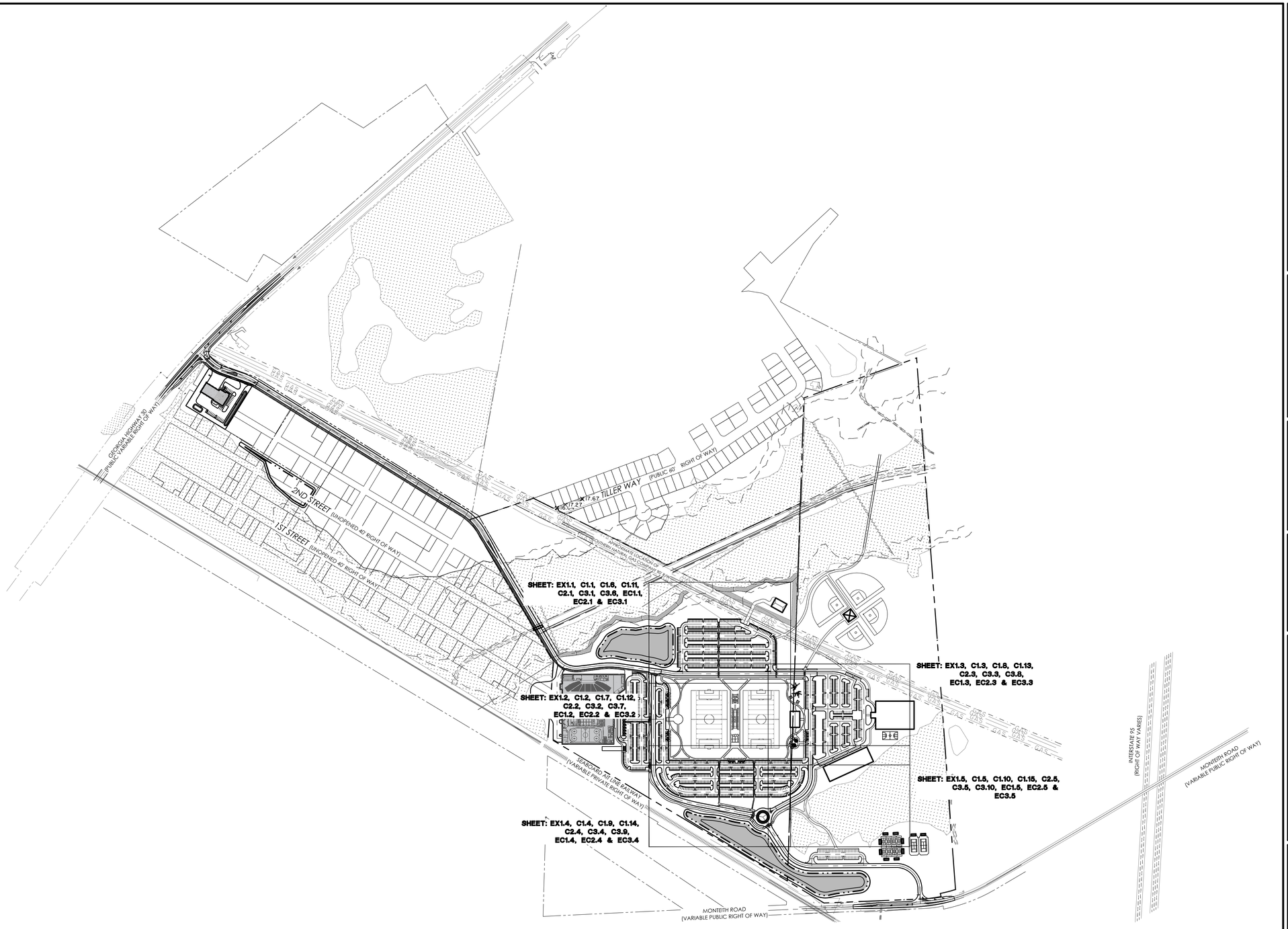
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

G1.1

Z:\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - GA-CLOWC - Aug 2, 2025 - 4:51 PM



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INDEX

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

300 0 150 300
GRAPHIC SCALE:
1 INCH = 300 FEETFEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 300'

G1.2

BID SET - NOT FOR CONSTRUCTION

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412029 - EX1.DWG - Aug 13, 2025 - 4:51 PM

C2.1

C2.2

C2.3

C2.4

C2.5

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

SEABOARD AIR LINE RAILWAY
(VARIABLE PRIVATE RIGHT OF WAY)

MONTEITH ROAD
(VARIABLE PUBLIC RIGHT OF WAY)

NOTE:
MULTIPLE SITE WORK PHASES ARE PRESENTLY ONGOING ON-SITE. EXISTING CONTOURS DO NOT REFLECT CURRENT EXISTING TOPOGRAPHY.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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OVERALL EXISTING CONDITIONS PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

100 0 50 100
GRAPHIC SCALE:
1 INCH = 100 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
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SCALE:	1" = 100'

EX1.0

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Z:\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412029 - EX1.DWG - Aug 13, 2025 - 4:51 PM

CONTROL
5/8" IRON REBAR SET
W/ T&H CAP
(N: 796,908.379
E: 952,210.268
EL. 10.24' (NAVD88)

BENCHMARK
BENCHMARK 18" OAK
EL. 14.64

WETLAND BUFFER (TYP)

WETLAND SIGN

FRESHWATER WETLAND (TYP)

ZONE X

ZONE X (0.2%)

ZONE AE

ZONE AE (10.2%)

ZONE AE

DITCH

APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W

MATCH LINE - SEE SHEET NO. EX1.2

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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EXISTING CONDITIONS PLAN

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RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
30 0 15 30
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EX1.1

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412029 - EXP1.DWG - Aug 2, 2025 - 4:51 PM

MATCH LINE - SEE SHEET NO. EX1.1

MATCH LINE - SEE SHEET NO. EX1.3

MATCH LINE - SEE SHEET NO. EX1.4

TRACT 2B
64.16 ACRES
2,881,142 SF
PIN: 7 1078 65 013

EARTH ROAD

DITCH

DITCH

DITCH

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EXISTING CONDITIONS PLAN

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PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EX1.2

Z:\SAV\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EX1.DWG - Aug 2, 2025 - 4:52 PM

BID SET - NOT FOR CONSTRUCTION

MATCH LINE - SEE SHEET NO. EX1.2

MATCH LINE - SEE SHEET NO. EX1.5

APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W

N/F HESTER, WENDELYN & WILLIAM GRAY PIN: 1-09735-05-002

3"x5" CMF

DITCH

FRESHWATER WETLAND (TYP)

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

EXISTING CONDITIONS PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
30 0 15 30
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
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SCALE:	1" = 30'

EX1.3

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412029 - EXPL.DWG - Aug 5, 2025 - 4:52 PM

MATCH LINE - SEE SHEET NO. EX1.2

MATCH LINE - SEE SHEET NO. EX1.5

DITCH

5'X5' CMP

344.68'

1,631.67'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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EXISTING CONDITIONS PLAN

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PROJECT LOCATION:
468 MONTEITH ROAD
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CLIENT/OWNER:
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7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
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DESIGNED:	
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APPROVED:	KMS
SCALE:	1" = 30'

EX1.4

Z:\25412\0025\10\DWG\REVIT\ENG\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412029 - EXP1.DWG - Aug 2, 2025 - 4:52 PM

MATCH LINE - SEE SHEET NO. EX1.3

MATCH LINE - SEE SHEET NO. EX1.4

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

3"x3" CMF

3"x3" CMF

344.68'

2356.06'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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EXISTING CONDITIONS PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EX1.5

BID SET - NOT FOR CONSTRUCTION

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FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

GAS

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

SEABOARD AIR LINE RAILWAY
(VARIABLE PRIVATE RIGHT-OF-WAY)

MONTEITH ROAD
(VARIABLE PUBLIC RIGHT-OF-WAY)

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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OVERALL SITE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

100 0 50 100
GRAPHIC SCALE:
1 INCH = 100 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 100'

C1.0

BID SET - NOT FOR CONSTRUCTION

Z:\25412\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - SK-09 PLTING.DWG - Aug 5, 2025 - 4:53 PM

PAVEMENT LEGEND:

- LIGHT DUTY VEHICULAR ASPHALT (2" SURFACE COURSE, 6" GAB)
- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
- VEHICULAR CONCRETE (6" SLAB, 8" GAB)
- PEDESTRIAN CONCRETE
- PERVIOUS PAVERS
- 8" GRADED AGGREGATE BASE

NOTES:

1. ASPHALT CONCRETE AND BASE COURSE MATERIALS SHOULD CONFORM TO GDOT MATERIAL SPECIFICATIONS.
   ** SECTION 815 FOR GRADED AGGREGATE
   ** SECTION 828 FOR HOT MIX ASPHALT CONCRETE MIXTURE.
2. REFERENCE GEOTECHNICAL ENGINEERING REPORT - PROPOSED NEW RECREATIONAL FACILITY - MONTEITH ROAD SITE | PORT WENTWORTH, GEORGIA, NOVEMBER 4, 2016 | GHD PROJECT REFERENCE NO. 1122323

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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STAKING & SIGNAGE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
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GRAPHIC SCALE:
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SCALE:	1" = 30'

C1.1

MATCH LINE - SEE SHEET NO. C1.2

BID SET - NOT FOR CONSTRUCTION

2:\25412\25412.0029\ENGINEERING\PLANS\BASIS CONSTRUCTION PLANS\PHASE 2\25412.0029 - SK-SIGN_STAKE - Aug 5, 2025 - 4:33 PM

SEE 25412.0029 - PHASE 1C FOR ROAD DESIGN (SHOWN FOR REFERENCE ONLY - CONSTRUCTED UNDER SEPARATE CONTRACT)

TIE TO EXISTING PHASE - 1C N: 796,534.59 E: 951,783.33

N: 796,453.36 E: 951,890.12

24" STOP BAR (TYP.)

18" CURB & GUTTER (TYP.)

CROSSWALK STRIPING (TYP.)

DETECTABLE WARNING (TYP.)

MATCH LINE - SEE SHEET NO. C1.1

8' CONCRETE SIDEWALK

TAPER STAND UP CURB TO FLUSH OVER 2' (TYP.)

CROSSWALK STRIPING (TYP.)

2' VALLEY GUTTER (TYP.)

N: 796,165.79 E: 952,358.43

STOP RI-I (30)30

10' CONCRETE SIDEWALK

10' CONCRETE SIDEWALK

DETECTABLE WARNING(TYP.)

N: 796,273.06 E: 951,641.01

4' HIGH BLACK VINYL COATED CHAIN LINK FENCE (1250 LF). PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY OWNER WITH SPECIFICATION DRAWINGS AND MANUFACTURER'S DETAILS FOR PROPOSED FENCING.

4' CHAIN LINK SINGLE SWING GATE

2' VALLEY GUTTER (TYP.)

18' CURB & GUTTER (TYP.)

24" STOP BAR (TYP.)

2' VALLEY GUTTER (TYP.)

PHASE 2

PHASE 1C

N: 796,350.84 E: 951,877.44

N: 796,337.09 E: 951,880.72

N: 796,314.37 E: 951,963.59

60 LF 15' MULTI SPORT BACKSTOP SYSTEM (JAYPRO SPORTS OR OWNER APPROVED EQUIVALENT)

N: 796,282.97 E: 952,014.72

4' CHAIN LINK 6' WIDE DOUBLE SWING GATES (12' TOTAL

N: 796,222.64 E: 952,086.21

N: 796,181.04 E: 952,153.96

N: 796,219.35 E: 952,072.46

CONCESSIONS BUILDING - ARCHITECTURAL FILE RECEIVED 6.24.25 - (NOT IN CONTRACT)

MULTIPURPOSE SPORTS FIELD (75 YDS X 120 YDS)

245'

BLEACHERS

4' CHAIN LINK SINGLE SWING GATE

360'

225'

CONTRACTOR TO PROVIDE DESIGN, PERMIT AND CONSTRUCTION OF COMPLETE IRRIGATION SYSTEM PROVIDING 100% FIELD COVERAGE. IRRIGATION SOURCE SHALL BE FROM STORMWATER PONDS. CONTRACTOR SHALL INCLUDE SHALLOW RECHARGE WELLS AT POND SOURCE. COORDINATE WITH OWNER. CONTRACTOR TO PROVIDE OWNER WITH IRRIGATION DESIGN AND PERMITS FOR REVIEW PRIOR TO ORDERING MATERIALS.

TEAM ROOM BUILDING - ARCHITECTURAL FILE RECEIVED 6.24.25 - (NOT IN CONTRACT)

4' CHAIN LINK 6' WIDE DOUBLE SWING GATES (12' TOTAL)

N: 796,030.31 E: 951,692.34

N: 796,027.02 E: 951,678.59

N: 795,912.57 E: 951,884.08

N: 795,898.82 E: 951,887.37

60 LF 15' MULTI SPORT BACKSTOP SYSTEM (JAYPRO SPORTS OR OWNER APPROVED EQUIVALENT)

N: 795,857.22 E: 951,955.11

MATCH LINE - SEE SHEET NO. EX1.4

8' CONCRETE SIDEWALK

CONCRETE WHEEL STOP (TYP.)

DETECTABLE WARNING (TYP.)

N: 796,167.28 E: 952,157.25

60 LF 15' MULTI SPORT BACKSTOP SYSTEM (JAYPRO SPORTS OR OWNER APPROVED EQUIVALENT)

N: 796,113.17 E: 952,291.24

N: 796,144.56 E: 952,240.11

4' CHAIN LINK 6' WIDE DOUBLE SWING GATES (12' TOTAL

N: 796,049.54 E: 952,348.99

N: 796,052.83 E: 952,362.74

N: 795,860.51 E: 951,968.87

N: 795,796.88 E: 952,026.61

60 LF 15' MULTI SPORT BACKSTOP SYSTEM (JAYPRO SPORTS OR OWNER APPROVED EQUIVALENT)

N: 795,765.49 E: 952,077.74

N: 795,729.01 E: 952,163.89

N: 795,742.77 E: 952,160.60

4' CHAIN LINK 6' WIDE DOUBLE SWING GATES (12' TOTAL

10' CONCRETE SIDEWALK

MATCH LINE - SEE SHEET NO. C1.3

7 SPACES @ 9' = 63'

9 SPACES @ 9' = 81'

10 SPACES @ 9' = 90'

4 SPACES @ 9' = 36'

18 SPACES @ 9' = 72'

PAVEMENT LEGEND:

- LIGHT DUTY VEHICULAR ASPHALT (2" SURFACE COURSE, 6" GAB)
- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
- VEHICULAR CONCRETE (6" SLAB, 8" GAB)
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- PERVIOUS PAVERS
- 8" GRADED AGGREGATE BASE

NOTES:

1. ASPHALT CONCRETE AND BASE COURSE MATERIALS SHOULD CONFORM TO GDOT MATERIAL SPECIFICATIONS.

** SECTION 815 FOR GRADED AGGREGATE
** SECTION 828 FOR HOT MIX ASPHALT CONCRETE MIXTURE.

2. REFERENCE GEOTECHNICAL ENGINEERING REPORT - PROPOSED NEW RECREATIONAL FACILITY - MONTEITH ROAD SITE | PORT WENTWORTH, GEORGIA, NOVEMBER 4, 2016 | GHD PROJECT REFERENCE NO. 1122323

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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STAKING & SIGNAGE PLAN

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE: 1 INCH = 30 FEET

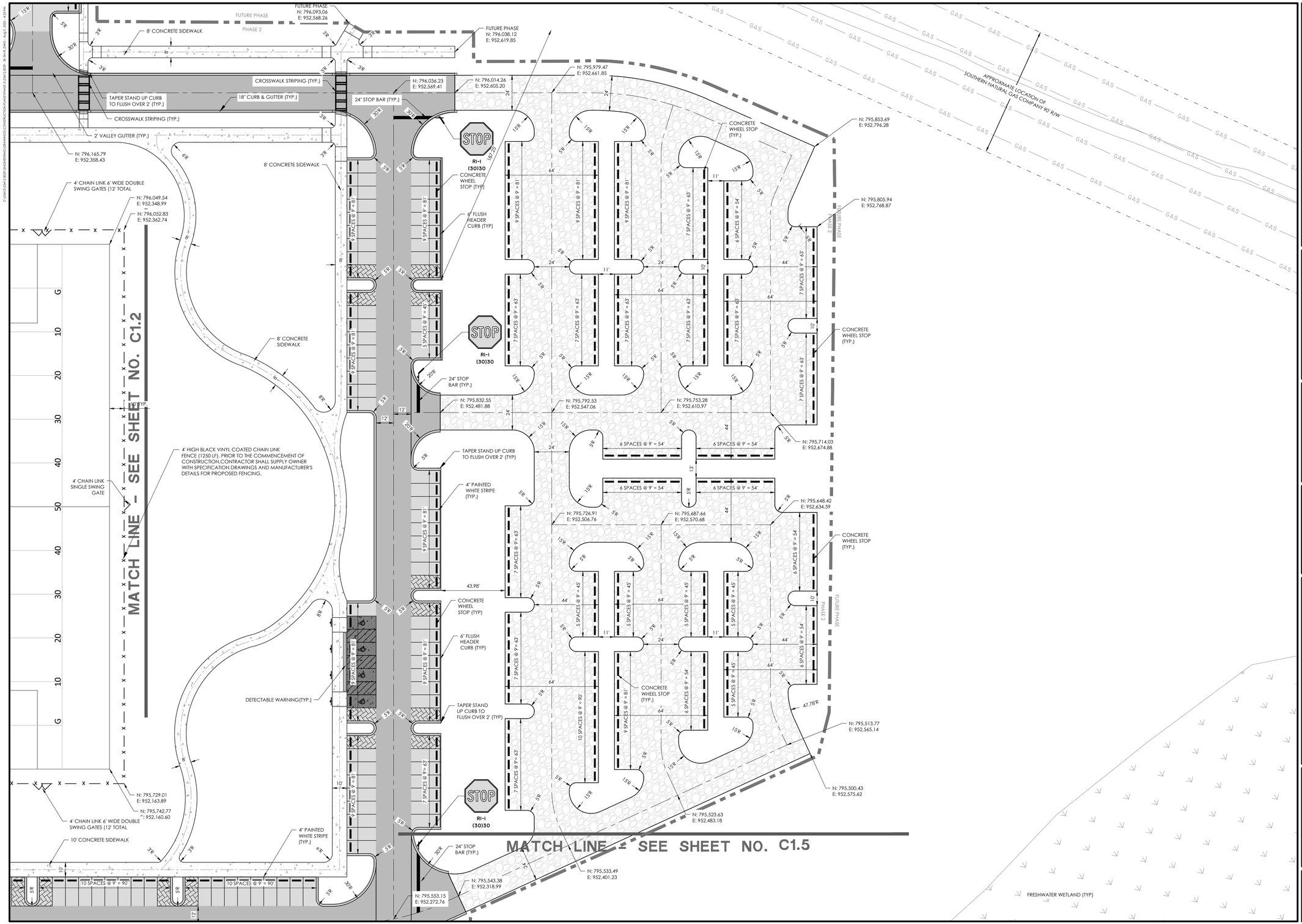
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
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SCALE:	1" = 30'

C1.2

BID SET - NOT FOR CONSTRUCTION

2:\2412\5\2412.0029\ENGINEER\CIVIL\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\2412.0029 - SK-SIGN_STRIPE - Aug 13, 2025 - 4:33 PM



PAVEMENT LEGEND:

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GRAPHIC SCALE:
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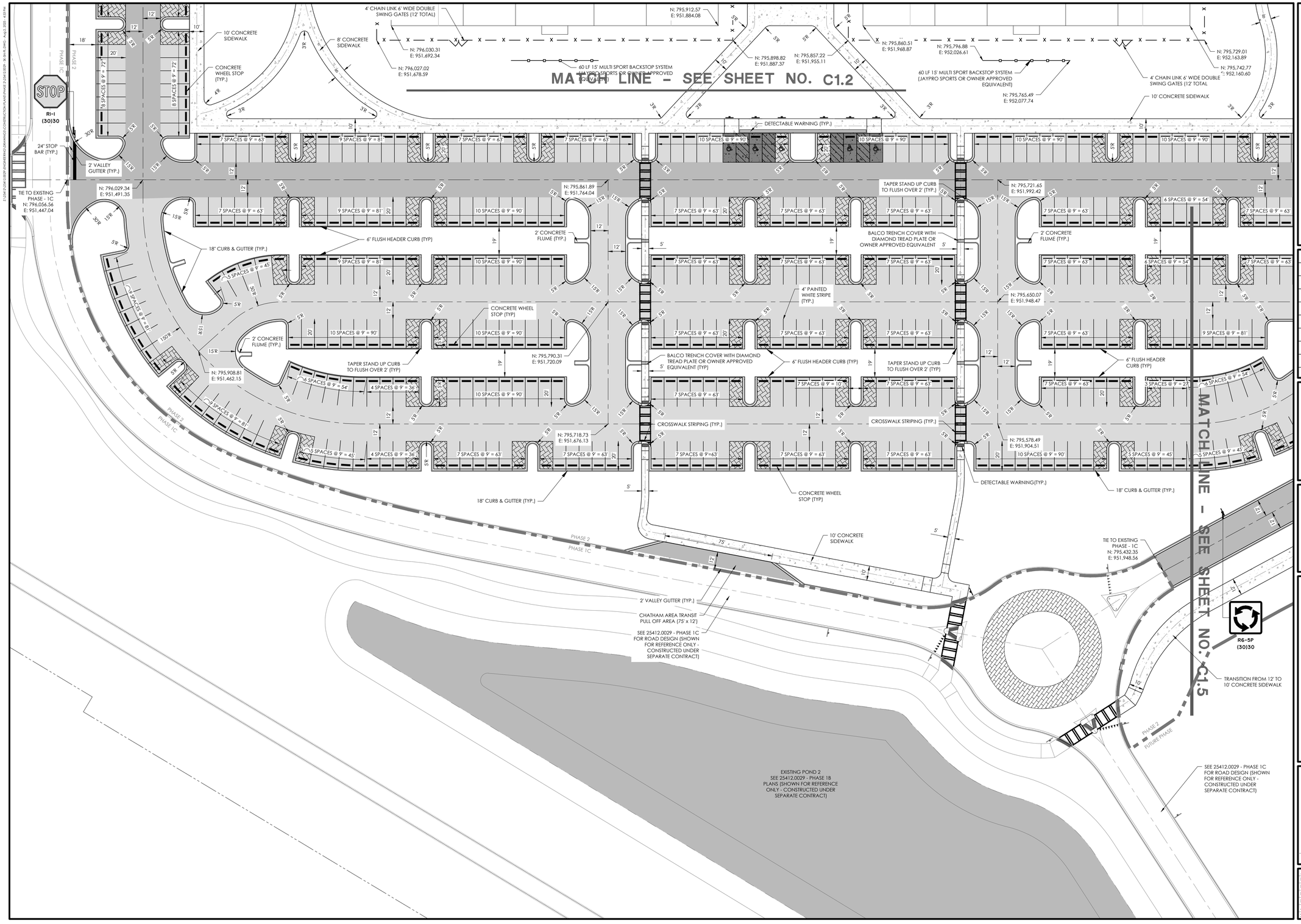
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SCALE:	1" = 30'

C1.3

BID SET - NOT FOR CONSTRUCTION

25412.0029/ENGINEERING/PLANS/CONSTRUCTION PLANS/PHASE 2/25412.0029 - SK-SIGN & STRIPE - Aug 5, 2025 - 4:33 PM



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STAKING & SIGNAGE PLAN

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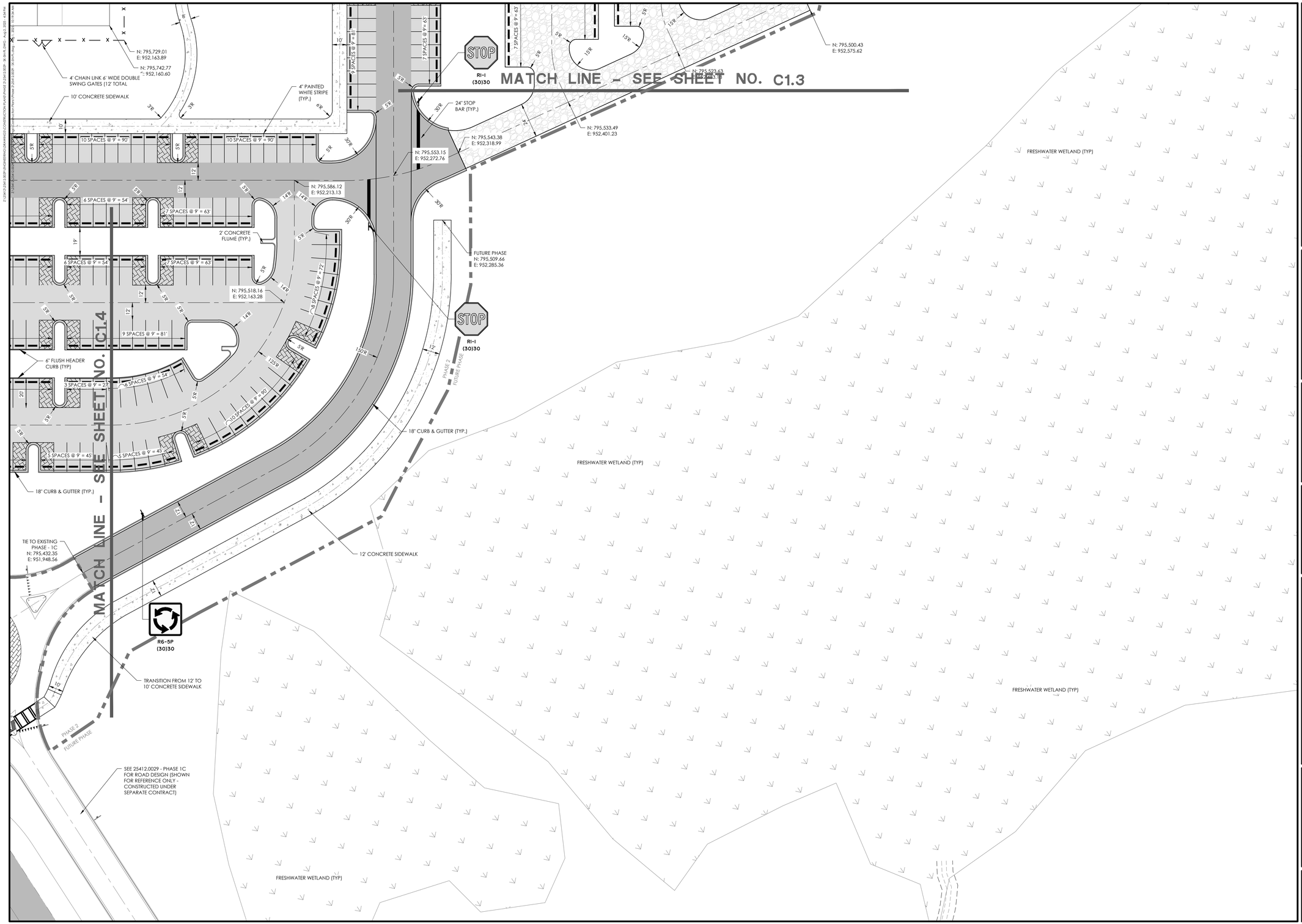
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

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DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C1.4



PAVEMENT LEGEND:

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- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
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BID SET - NOT FOR CONSTRUCTION

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STAKING & SIGNAGE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
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7224 GA HIGHWAY 21
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30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

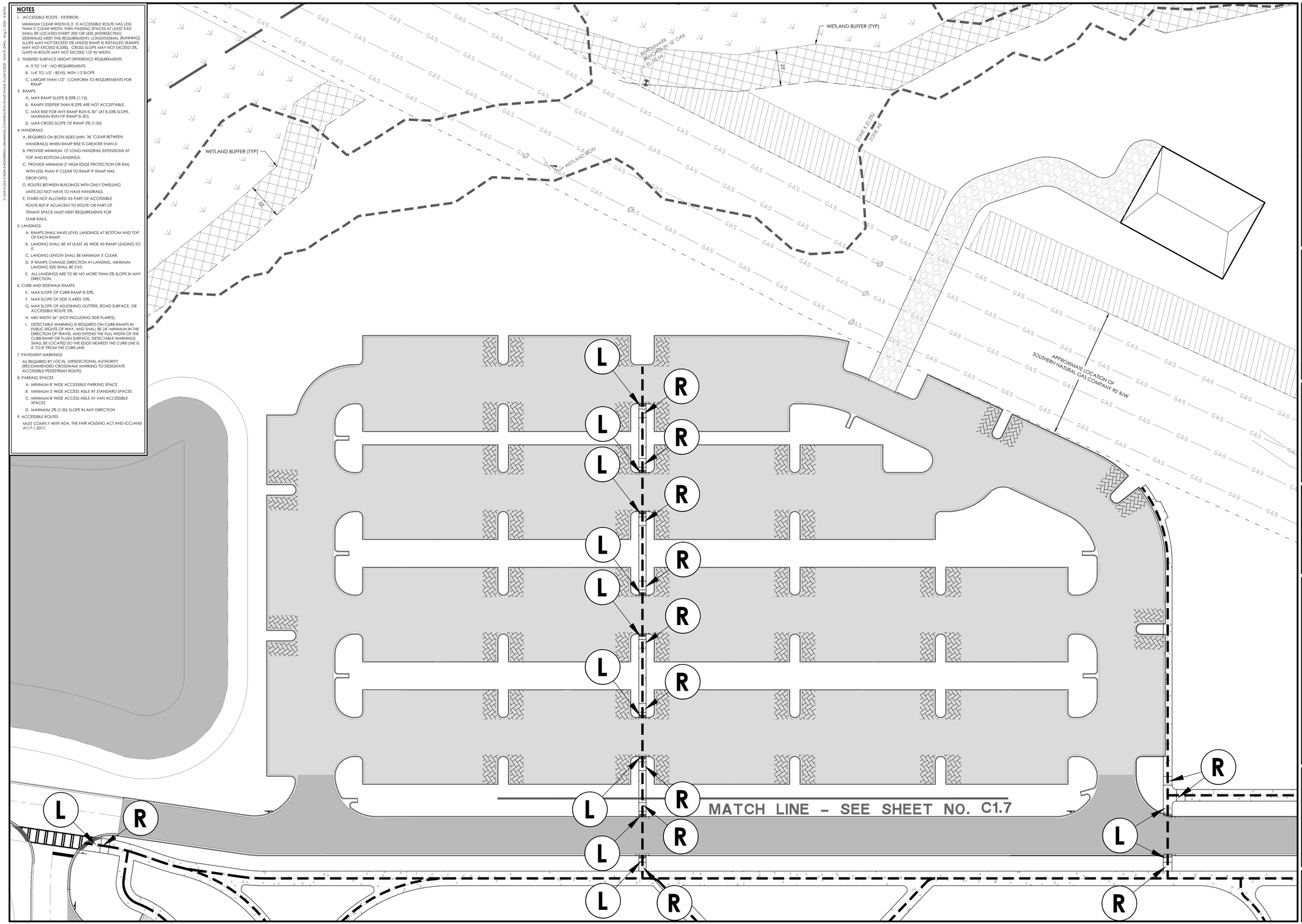
JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C1.5

Z:\SAS\25412.0029\ENGINEER\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - ADA.PLT3MC - Aug 13, 2025, 4:48 PM

NOTES

1. ACCESSIBLE ROUTE - EXTERIOR:
   MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'X5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%) . CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.
2. FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS
   A. 0 TO 1/4" : NO REQUIREMENTS
   B. 1/4" TO 1/2" : BEVEL WITH 1:2 SLOPE
   C. LARGER THAN 1/2" : CONFORM TO REQUIREMENTS FOR RAMP
3. RAMPS
   A. MAX RAMP SLOPE 8.33% (1:12).
   B. RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE.
   C. MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30').
   D. MAX CROSS SLOPE OF RAMP 2% (1:50)
4. HANDRAILS:
   A. REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6".
   B. PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSIONS AT TOP AND BOTTOM LANDINGS.
   C. PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS.
   D. ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS.
   E. STAIRS NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUTE OR PART OF TENANT SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS.
5. LANDINGS
   A. RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP.
   B. LANDING SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT.
   C. LANDING LENGTH SHALL BE MINIMUM 5' CLEAR.
   D. IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'X5'.
   E. ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
6. CURB AND SIDEWALK RAMPS
   E. MAX SLOPE OF CURB RAMP 8.33%.
   F. MAX SLOPE OF SIDE FLARES 10%.
   G. MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%.
   H. MIN WIDTH 36" (NOT INCLUDING SIDE FLARES).
   I. DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHTS OF WAY, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.
7. PAVEMENT MARKINGS
   AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)
8. PARKING SPACES
   A. MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE
   B. MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES
   C. MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES
   D. MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION
9. ACCESSIBLE ROUTES
   MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2017.



ACCESSIBLE ROUTE
ACCESSIBLE BUILDING ENTRANCE
(L) LANDING (R) RAMP

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

SITE ACCESSIBILTY PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C1.6

Z:\2412\0029\ENGINEER\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\2412.0029 - ADA PL.DWG - Aug 2, 2025 - 8:48 PM

NOTES

1. ACCESSIBLE ROUTE - EXTERIOR:
   MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'X5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%) . CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.
2. FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS
   A. 0 TO 1/4" : NO REQUIREMENTS
   B. 1/4" TO 1/2" : BEVEL WITH 1:2 SLOPE
   C. LARGER THAN 1/2" : CONFORM TO REQUIREMENTS FOR RAMP
3. RAMPS
   A. MAX RAMP SLOPE 8.33% (1:12).
   B. RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE.
   C. MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30').
   D. MAX CROSS SLOPE OF RAMP 2% (1:50)
4. HANDRAILS:
   A. REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6".
   B. PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSIONS AT TOP AND BOTTOM LANDINGS.
   C. PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS.
   D. ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS.
   E. STAIRS NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUTE OR PART OF TENANT SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS.
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   A. RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP.
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   C. LANDING LENGTH SHALL BE MINIMUM 5' CLEAR.
   D. IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'X5'.
   E. ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
6. CURB AND SIDEWALK RAMPS
   E. MAX SLOPE OF CURB RAMP 8.33%.
   F. MAX SLOPE OF SIDE FLARES 10%.
   G. MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%.
   H. MIN WIDTH 36" (NOT INCLUDING SIDE FLARES).
   I. DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHTS OF WAY, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.
7. PAVEMENT MARKINGS
   AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)
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   B. MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES
   C. MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES
   D. MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION
9. ACCESSIBLE ROUTES
   MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2017.

MATCH LINE - SEE SHEET NO. C1.6

MATCH LINE - SEE SHEET NO. C1.8

MATCH LINE - SEE SHEET NO. C1.9

MULTIPURPOSE SPORTS FIELD
(75 YDS X 120 YDS)

MULTIPURPOSE SPORTS FIELD
(75 YDS X 120 YDS)

CONCESSIONS BUILDING
ARCHITECTURAL FILE
RECEIVED 6.24.25
(NOT IN CONTRACT)

TEAM ROOM BUILDING
ARCHITECTURAL FILE
RECEIVED 6.24.25
(NOT IN CONTRACT)

R7-8 (I2)I8
R7-8P (I8)9

ACCESSIBLE ROUTE
ACCESSIBLE BUILDING ENTRANCE
(L) LANDING (R) RAMP

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
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SITE ACCESSIBILTY PLAN

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PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

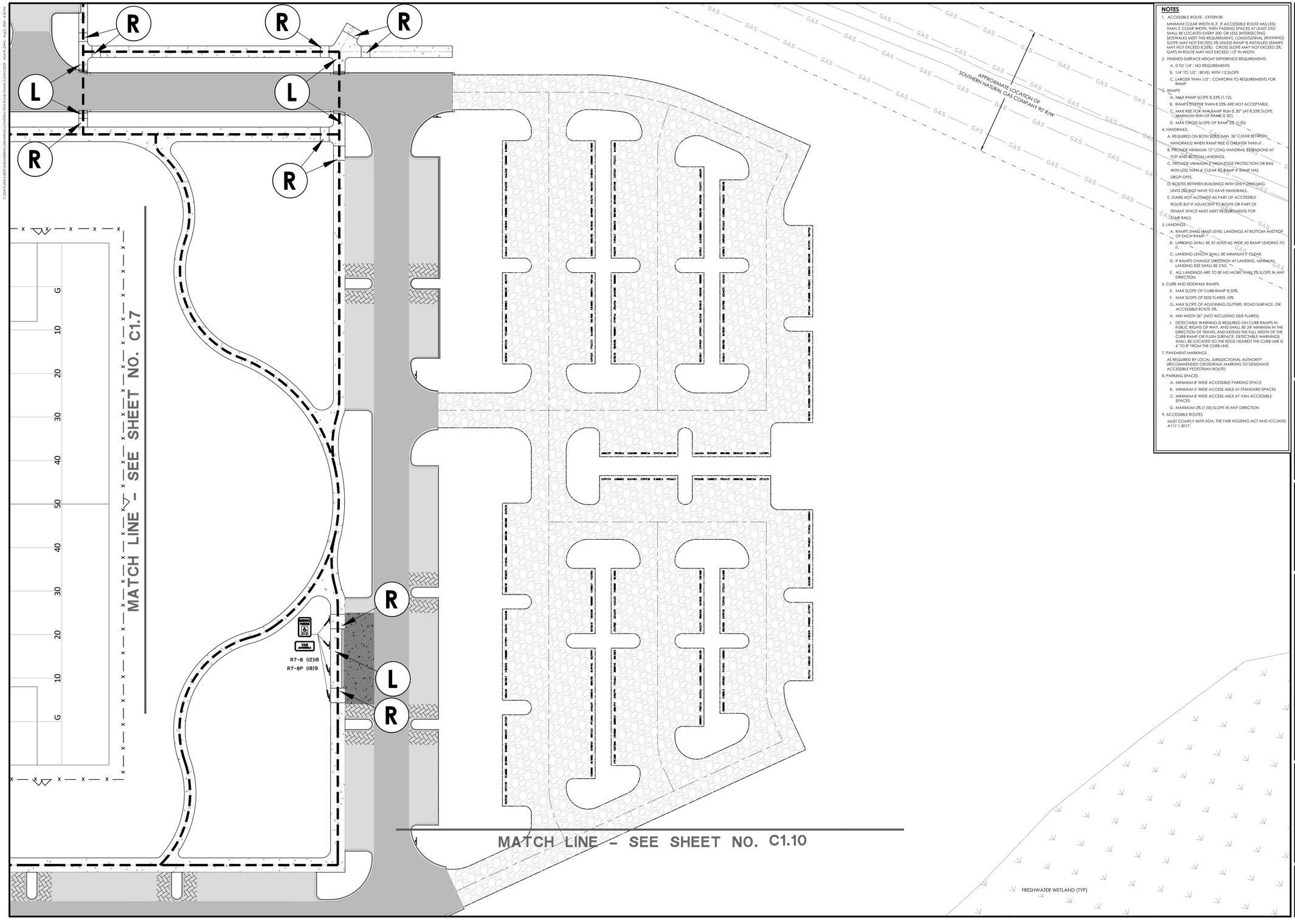
CLIENT/OWNER:
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7224 GA HIGHWAY 21
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30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

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DRAWN:	SAM
DESIGNED:	
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APPROVED:	KMS
SCALE:	1" = 30'

C1.7



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   D. IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM, LANDING SIZE SHALL BE 5'X5'.
   E. ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
6. CURB AND SIDEWALK RAMPS
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ACCESSIBLE ROUTE
ACCESSIBLE BUILDING ENTRANCE
(L) LANDING (R) RAMP

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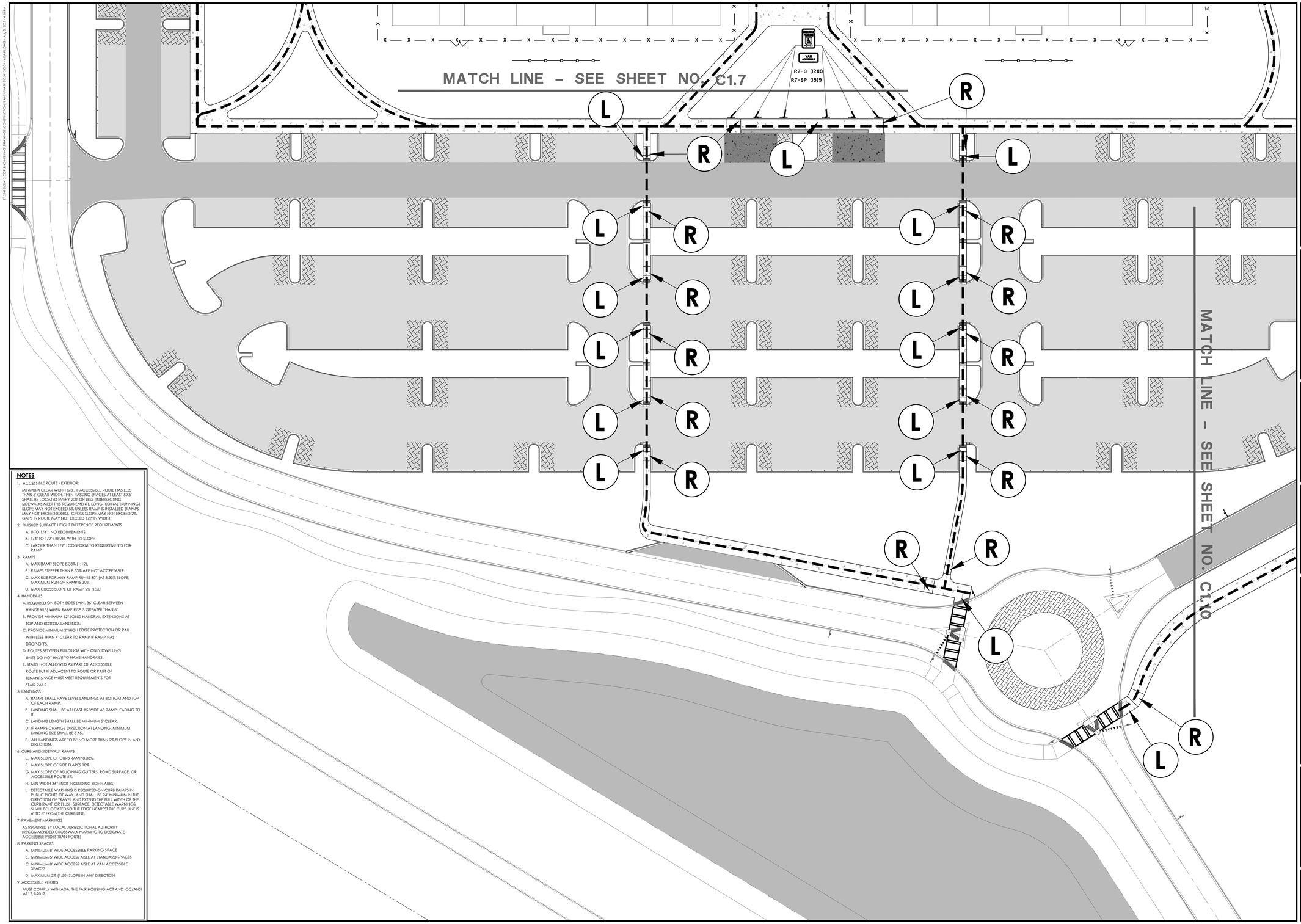
GRAPHIC SCALE: 1 INCH = 30 FEET (30 0 15 30)

DATUM: HORIZ.: NAD83 VERT.: NAVD88

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DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C1.8

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ACCESSIBLE ROUTE
ACCESSIBLE BUILDING ENTRANCE
(L) LANDING (R) RAMP

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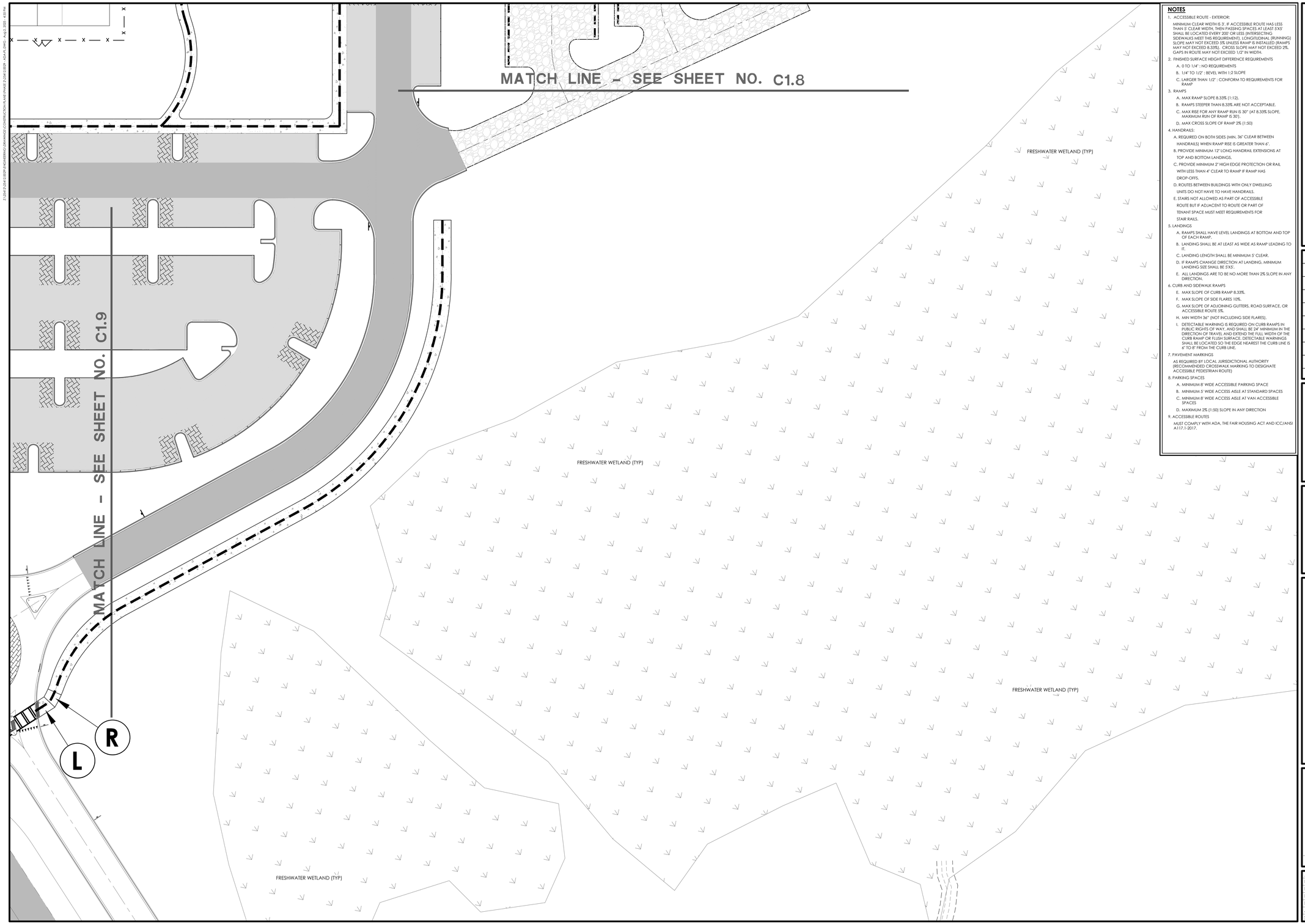
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DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C1.9

Z:\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\Civil\25412.0029 - ADA.PLT.DWG - Aug 5, 2025 - 4:57pm

21-25412-25412.0029 ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\CIVIL 21-25412.0029 - ADA.PLT3 - Aug 13, 2025 - 4:18 PM



NOTES

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ACCESSIBLE ROUTE
ACCESSIBLE BUILDING ENTRANCE
(L) LANDING (R) RAMP

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SCALE:	1" = 30'

C1.10

ISSUED FOR BID - AUGUST 4, 2025

LEGEND

	HOME RUN
	UNDERGROUND CIRCUIT
J	JUNCTION BOX
	CONDUIT STUB OUT
	EQUIPMENT AS NOTED
T	PAD MOUNTED TRANSFORMER BY GEORGIA POWER - NOTE G3
	GROUND
	PANEL
	DRY TYPE TRANSFORMER
	CIRCUIT BREAKER
SP	SURGE PROTECTION
	FIELD LIGHTING POLE AND FLOODLIGHTS. NOTE G4
	20A, 125V DUPLEX GFI RECEPTACLE
WP	WEATHER PROOF

GENERAL NOTES:

G1. ALL WORK SHALL COMPLY WITH 2023 NEC AND ALL STATE AND LOCAL ORDINANCES.

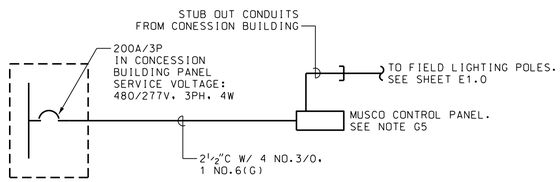
G2. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND OTHER TRADES.

G3. COORDINATE METERING WITH OWNER AND GEORGIA POWER TO PROVIDE ONE METER PER PAD MOUNTED TRANSFORMER.

G4. FIELD LIGHTING TO BE BY MUSCO AS SPECIFIED OR BY OTHER APPROVED VENDORS. SEE SPEC 265668.

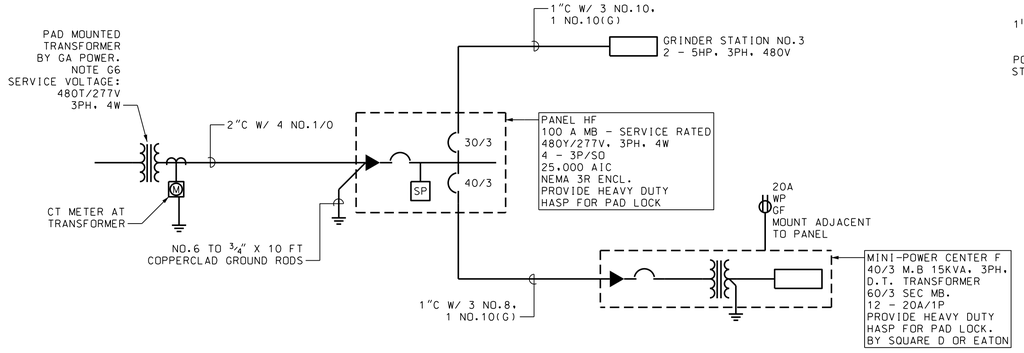
G5. STUB OUT CONDUITS FROM MUSCO PANEL TO 5 FT FROM CONCESSIONS BUILDING. EXTEND U/G FEEDERS SHOWN FROM POLES TO MUSCO PANEL.

G6. COORDINATE SERVICE WITH GA POWER ENGINEER. CONTACT ASHLEY STODDARD, (912) 602-2148, atstodda@southernco.com



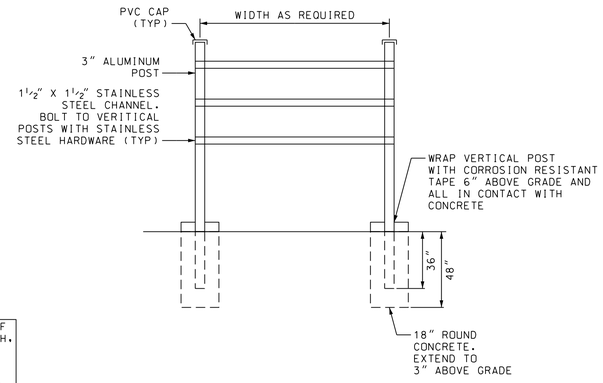
1 E0.1 FIELD LIGHTING ONE-LINE DIAGRAM

NOT TO SCALE



2 E0.1 FIELD POWER ONE-LINE DIAGRAM

NOT TO SCALE



3 E0.1 ELECTRICAL SUPPORT DETAIL

NOT TO SCALE

NO.	REVISIONS	BY	DATE

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ELECTRICAL LEGEND AND GENERAL NOTES

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STEVE DAVIS
stevedavis@cityofportwentworth.com

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO:	25412.0029
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DRAWN:	LC
DESIGNED:	PM
REVIEWED:	PM
APPROVED:	PM
SCALE:	AS SHOWN

E0.1

CADD PLOT
Fri - JUL - 2025
07:43
LOGIN: ETT

E:\Pt Wentworth Development Project Hwy 30 & Monteith - 25006.07\CADD\E0.1.dgn

ISSUED FOR BID - AUGUST 4, 2025

PAD MOUNTED TRANSFORMER BY GA POWER. VERIFY EXACT LOCATION IN FIELD.

GRINDER PUMP STATION #3 SEE 2/E0.1

PANEL HF AND MINI-POWER CENTER F ON RACK. MAINTAIN CLEARANCES AT TRANSFORMER

NOTE 1

NOTE 1

MUSCO PANEL LOCATED IN BUILDING

F1-1
F1-4
F1
CONCESSION BUILDING. NOTE 3

F8-2
F8-4
F8

F4
F4-1

F5-2
F5-3
F5

FIELD NO.1

FIELD NO.2

PRESS BOX. NOTE 3

FIELD LIGHTING FEEDER SCHEDULE - FIELD NO.1

DESIGNATION	DESCRIPTION	FEEDERS	NOTES
F1-1	FOOTBALL - 1	1-1/4"C W/3 NO.8, 1 NO.10(G)	3
F1-4	BLEACHERS	3/4"C W/3 NO.12, 1 NO.12(G)	3
F2-1	FOOTBALL - 1	1-1/4"C W/3 NO.6, 1 NO.10(G)	3
F2-4	BLEACHERS	1"C W/3 NO.10, 1 NO.12(G)	3
F3-1	FOOTBALL - 1	1-1/4"C W/3 NO.6, 1 NO.10(G)	3
F4-1	FOOTBALL - 1	1-1/4"C W/3 NO.6, 1 NO.10(G)	3

FIELD LIGHTING FEEDER SCHEDULE - FIELD NO.2

DESIGNATION	DESCRIPTION	FEEDERS	NOTES
F5-2	FOOTBALL - 2	1-1/4"C W/3 NO.6, 1 NO.10(G)	3
F5-3	PLAYGROUND	1"C W/3 NO.10, 1 NO.12(G)	3
F6-2	FOOTBALL - 2	1-1/4"C W/3 NO.6, 1 NO.10(G)	3
F6-3	PLAYGROUND	1"C W/3 NO.10, 1 NO.12(G)	3
F7-2	FOOTBALL - 2	1-1/4"C W/3 NO.6, 1 NO.10(G)	3
F7-4	BLEACHERS	1"C W/3 NO.10, 1 NO.12(G)	3
F8-2	FOOTBALL - 2	1-1/4"C W/3 NO.8, 1 NO.10(G)	3
F8-4	BLEACHERS	3/4"C W/3 NO.12, 1 NO.12(G)	3

FIELD LIGHTING POLE. DESIGNATION CORRESPONDS TO MUSCO DRAWINGS (TYP) SEE FIELD LIGHTING FEEDER SCHEDULE. EXTEND FEEDERS UNDERGROUND DIRECTLY TO CONTROL PANEL. ENTER BUILDINGS USING STUB OUTS PROVIDED. COMPLY WITH ALL MUSCO REQUIREMENTS AND DIMENSIONS

F3
F3-1

F2-1
F2-4
F2

F7
F7-2
F7-4

F6-2
F6-3
F6

NOTE G5

NOTE G5

NOTE 2

NOTE 2

TEAM BUILDING

1 E1.0 ELECTRICAL SITE PLAN

SCALE: 1" = 30' - 0"

NOTES:

1. EXTEND 1"C TO SCOREBOARD PANEL IN CONCESSION BUILDING FOR FUTURE SCOREBOARD. NOTE 4. SEE E201.
2. EXTEND 1"C TO PRESS BOX 120 VOLT PANEL FOR FUTURE SCOREBOARD. NOTE 4. SEE E202.
3. STUB OUT CONDUITS FROM BUILDINGS AND EXTEND AS NOTED.
4. LOCATE STUB OUTS WITH 4" X 4" X 12" CONCRETE MARKER AND ON DIMENSIONED AS-BUILTS.

NO.	REVISIONS	BY	DATE

GEORGIA REGISTERED No. 11726 PROFESSIONAL ENGINEER

THOMAS & HUTTON

50 Park of Commerce Way
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ELECTRICAL SITE PLAN

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407
STEVE DAVIS
stevedavis@cityofportwentworth.com

DATUM: HORIZ.: NAD 83 VERT.: NAVD 88

JOB NO:	25412.0029
DATE:	
DRAWN:	LC
DESIGNED:	PM
REVIEWED:	PM
APPROVED:	PM
SCALE:	1" = 30' - 0"

E1.0

CADD PLOT 14 - JUL - 2025 LX1-20 LOCALE: 1

E:\Pt Wentworth Development Project Hwy 30 & Monteith - 25006.07\CADD\E1.0.dgn

Z:\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS.DWG - Aug 5, 2025 - 4:56 PM

12'W 12'W 12'W 12'W 12'W 12'W 12'W 12'W 12'W

W1.2

55

1" CONDUIT

CND

1-1/4" CONDUIT

3/4" CONDUIT

FIELD LIGHTING POLE. SEE SHEET E1.0 FOR FURTHER DETAILS.

G 10 20 30 40 50 40 30 20 10 G

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1		FIT	06/19/2025

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CONDUIT PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

CP1.1

BID SET - NOT FOR CONSTRUCTION

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FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

C2.1

C2.2

C2.3

C2.4

C2.5

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

ENTRANCE

EXIT

SEABOARD AIR LINE RAILWAY
(VARIABLE PRIVATE RIGHT-OF-WAY)

MONTEITH ROAD
(VARIABLE PUBLIC RIGHT-OF-WAY)

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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OVERALL WATER & SEWER PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

100 0 50 100
GRAPHIC SCALE:
1 INCH = 100 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 100'

C2.0

Z:\25412\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION\PLANS\Sheets\25412.0029 - WP_PLOTS.DWG - Aug 13, 2025 - 4:57PM

BID SET - NOT FOR CONSTRUCTION

WETLAND BUFFER (TYP)

BENCHMARK
BENCHMARK 18" OAK
ELEV 14.4

WETLAND BUFFER (TYP)

WETLAND SIGN

FRESHWATER WETLAND (TYP)

ZONE X

ZONE X (0.2%)

ZONE AE

ZONE X (0.2%)
ZONE AE

APPROXIMATE LOCATION OF
SOUTHERN NATURAL GAS COMPANY 90' R/W

MATCH LINE – SEE SHEET NO. C2.2

12" X 6" TAPPING SLEEVE
6" PVC - C900 - DR 18
6" GATE VALVE IN MANHOLE
4" 45° BEND (HORIZONTAL)
REMOVE CAP AND CONNECT TO EXISTING 12" FORCEMAIN
6" PVC - C900 - DR 18
4" PVC - C900 - DR 18
4" PVC - C900 - DR 18
4" "WM"
12" PVC - C900 - DR 18
16" STEEL CASING
12" 45° BEND (VERTICAL)
12" 45° BEND (VERTICAL)
REMOVE PLUG AND CONNECT TO EXISTING FORCEMAIN
3.0" PVC - SDR 21
3" 45° BEND (HORIZONTAL)
3" 45° BEND (HORIZONTAL)
12" 45° BEND (VERTICAL)
12" 45° BEND (VERTICAL)
REMOVE PLUG AND CONNECT TO EXISTING FORCEMAIN
2" 45° BEND
3.0" PVC - SDR 21
12" PVC - C900 - DR 18
12"W

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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WATER & SEWER PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
30 0 15 30
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C2.1

BID SET - NOT FOR CONSTRUCTION

MATCH LINE – SEE SHEET NO. C2.1

3.0" PVC - SDR 21

3" 45° BEND (HORIZONTAL)

REMOVE PLUG AND CONNECT TO EXISTING FORCEMAIN

16" STEEL CASING

12" 45° BEND (VERTICAL)

3" 45° BEND (HORIZONTAL)

12" 45° BEND (VERTICAL)

12" PVC - C900 - DR 18

12" X 6" TAPPING SLEEVE

6" PVC - C900 - DR 18

REMOVE CAP AND CONNECT TO EXISTING 12" FORCEMAIN

12" PVC - C900 - DR 18

10 LF 6" PVC - SDR 26 @ 0.50%

12" 45° BEND (VERTICAL)

12"W

6" PVC - C900 - DR 18

6" GATE VALVE IN MANHOLE

4" PVC - C900 - DR 18

4" PVC - C900 - DR 18

4" "WM"

4" 45° BEND (HORIZONTAL)

GRAVITY GREASE INTERCEPTOR BY OTHERS
PLEASE SEE SHEET P600, ANCHOR PARK CONCESSION AND TEAM ROOM FACILITY PLANS FOR PLUMBING SCHEDULE. CONTRACTOR TO COORDINATE MANUFACTURER'S DETAILS WITH PLUMBER.
FR: 19.51
INV. IN: 16.06 (W)
INV. OUT: 15.89 (SE)

2.0" PVC - SDR 21

REMOVE PLUG AND CONNECT TO EXISTING FORCEMAIN

2" 45° BEND

2" 45° BEND (2)

GRINDER PUMP STATION #3
PACKAGE GRINDER PUMP STATION - SEE DETAIL (CONTRACTOR TO PROVIDE COMPLETE GRINDER STATION USING WET WELL, PUMPS, ELECTRICAL EQUIPMENT AND ALL NECESSARY APPURTENANCES)
FR=19.60
INV. IN: 15.75 (NW)

6" X 4" WYE #6
INV. IN: 15.80 (NW)
INV. IN: 15.80 (W)
INV. OUT: 15.80 (SE)

4" PVC - C900 - DR 18

4.00" RPZ

4" PVC - C900 - DR 18

4" 45° BEND (HORIZONTAL)

4" PVC - C900 - DR 18

85 LF 4" PVC - SDR 26 @ 0.28%

4" CO #2 (23)
FR: 19.90
INV. IN: 16.32 (SW)
INV. OUT: 16.32 (E)

4" CO #5
FR: 19.84
INV. IN: 16.04 (SW)
INV. OUT: 16.04 (E)

4" 45° BEND (HORIZONTAL)

4" PVC - C900 - DR 18

4" 45° BEND (HORIZONTAL)

4" PVC - C900 - DR 18

4" CAP

10 LF 4" PVC - SDR 26 @ 0.70%

10 LF 4" PVC - SDR 26 @ 0.70%

3 LF 4" PVC - SDR 26 @ 0.73%

10 LF 4" PVC - SDR 26 @ 0.50%

4" CO #2 (31)
FR: 19.40
INV. IN: 16.11 (W)
INV. OUT: 16.11 (SE)

4" CO #2
FR: 20.21
INV. OUT: 16.51 (NE)

4" CO #1
FR: 20.23
INV. OUT: 16.30 (NE)

51 LF 4" PVC - SDR 26 @ 0.41%

46 LF 4" PVC - SDR 26 @ 0.41%

73 LF 4" PVC - SDR 26 @ 0.36%

MATCH LINE – SEE SHEET NO. C2.3

MATCH LINE – SEE SHEET NO. C2.4

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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WATER & SEWER PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C2.2

BID SET - NOT FOR CONSTRUCTION

END (HORIZONTAL)

3.0" PVC - SDR 21

3" PLUG

12" PVC - C900 - DR 18

12" CAP

12"W

12"W

12"W

12"W

APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W

GAS

MATCH LINE - SEE SHEET NO. C2.3

MATCH LINE - SEE SHEET NO. C2.5

FRESHWATER WETLAND (TYP)

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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WATER & SEWER PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C2.3

J:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION\PLANS\Sheet 2\25412.0029 - PLAN SHEET 2.DWG - Aug 13, 2025 - 4:38 PM

MATCH LINE - SEE SHEET NO. C2.2

MATCH LINE - SEE SHEET NO. C2.5

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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WATER & SEWER PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

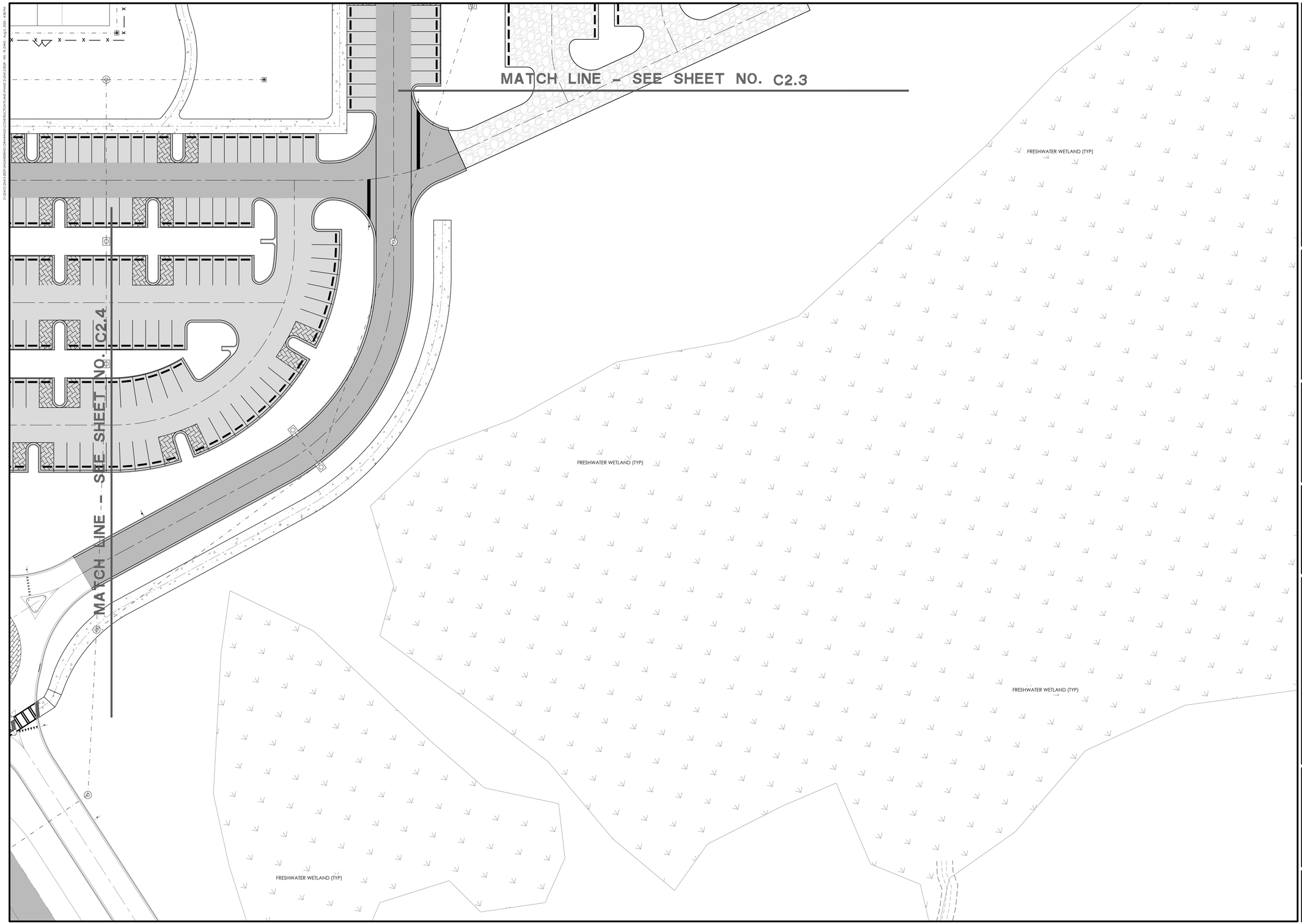
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C2.4

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION\PLANS\Phase 2\25412.0029 - PLT.DWG - Aug 12, 2025 - 4:48 PM



BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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WATER & SEWER PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

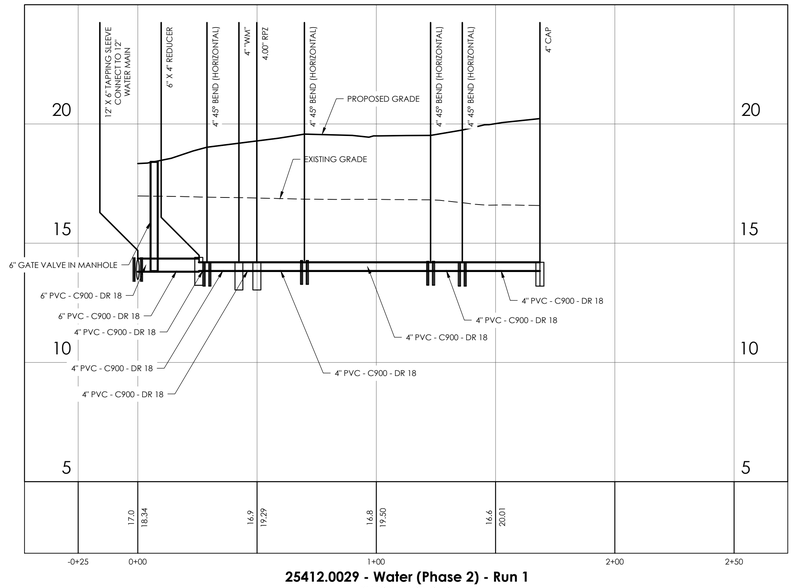
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

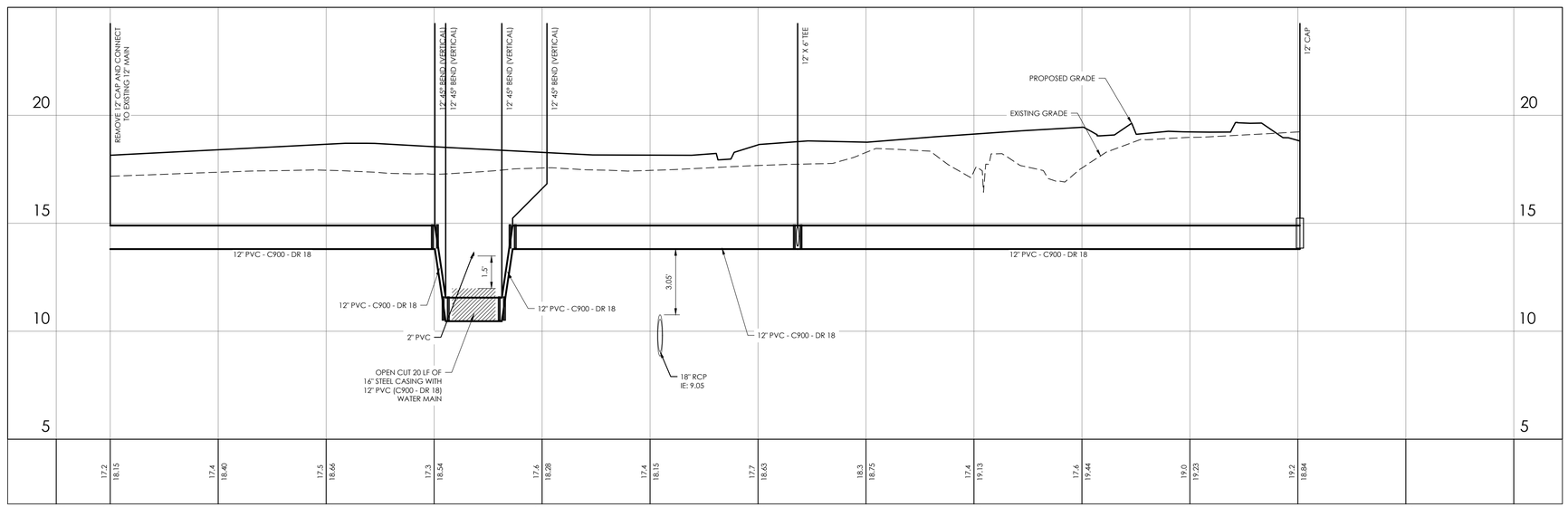
C2.5

Z:\25412\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - WATER (DWG - Aug 2, 2025 - 4:48 PM



25412.0029 - Water (Phase 2) - Run 1

STATIONS: -0+25 - 2+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 5'



25412.0029 - Water (Phase 2) - Run 2

STATIONS: -0+25 - 6+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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WATER PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

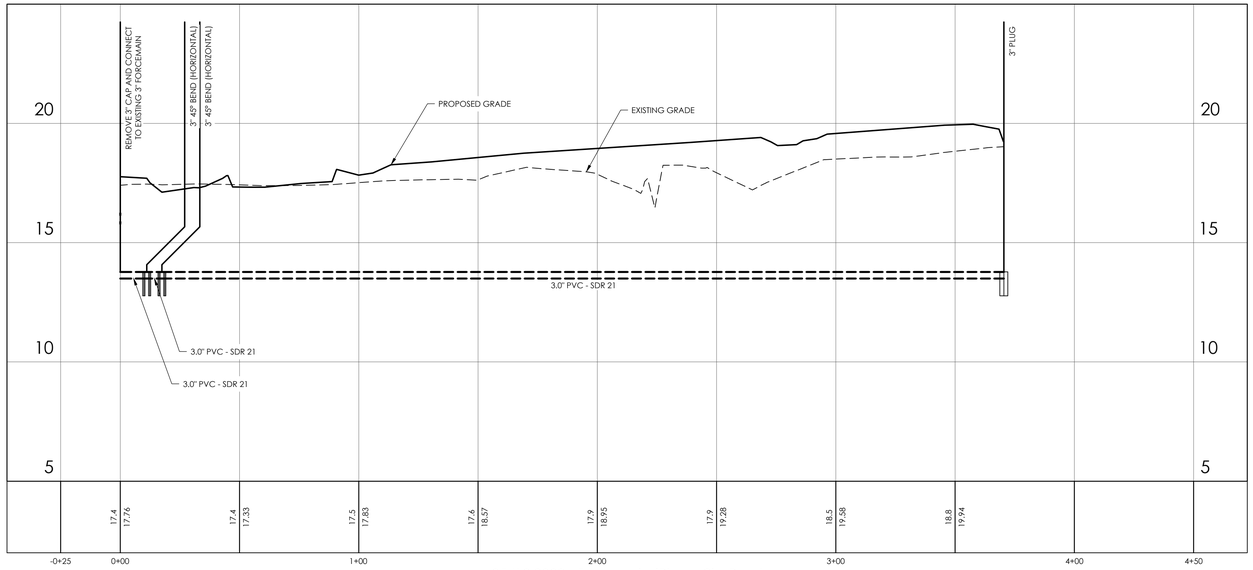
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

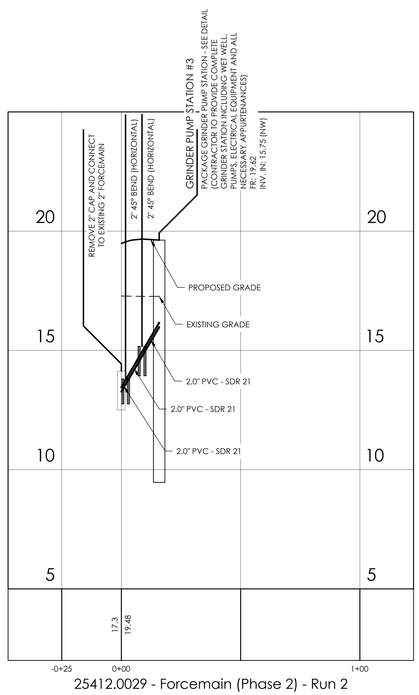
C2.6

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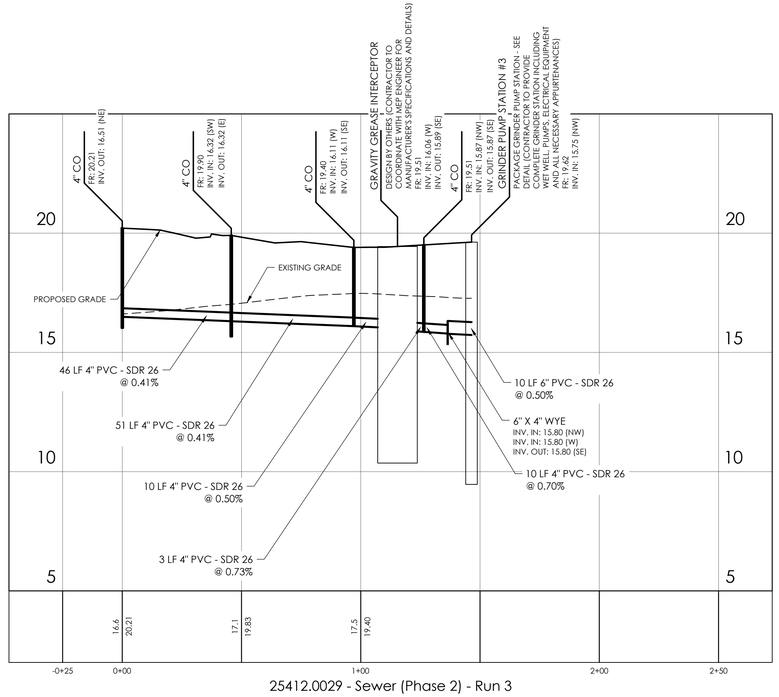
25412.0029 - Forcemain (Phase 2) - Run 1

STATIONS: -0+25 - 4+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



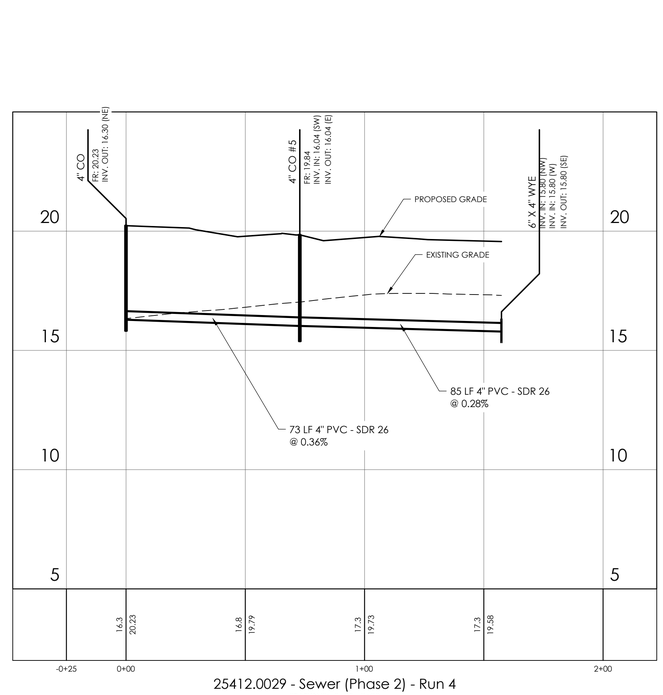
25412.0029 - Forcemain (Phase 2) - Run 2

STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Sewer (Phase 2) - Run 3

STATIONS: -0+25 - 2+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Sewer (Phase 2) - Run 4

STATIONS: -0+25 - 2+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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SEWER & FORCEMAIN PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET
30 0 15 30

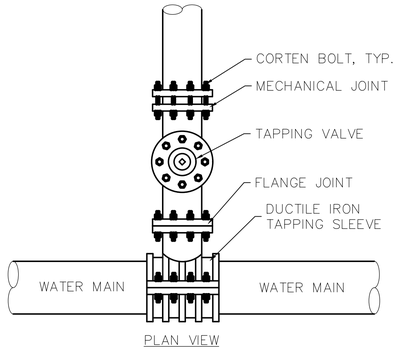
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C2.7

Z:\25412\5841\2025\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - WS DETAILS - Aug 5, 2025 - 4:48 PM

BID SET - NOT FOR CONSTRUCTION



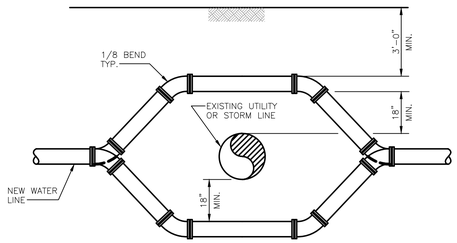
PLAN VIEW

NOTE:
1. THE TAPPING SLEEVE AND VALVE MUST BE INSTALLED IN A MANHOLE. SEE DETAIL W-14 FOR THE MANHOLE DETAIL.

STANDARD TAPPING SLEEVE

City of Port Wentworth
TECHNICAL DETAILS
W-5

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



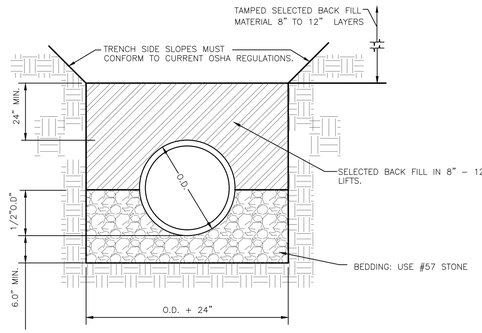
NOTES:

1. WATER LINE SHALL BE INSTALLED ABOVE SANITARY OR STORM LINE IF POSSIBLE.
2. STRAIGHT RUN OF WATER LINE DIRECTLY ABOVE OR BELOW EXISTING UTILITY LINE MUST BE 10' MINIMUM WITH NO JOINT.
3. IF WATER LINE IS INSTALLED BELOW SANITARY LINE WATER LINE SHALL BE DUCTILE IRON PIPE.
4. JOINTS SHALL BE RESTRAINED IN ACCORDANCE WITH CITY OF PORT WENTWORTH STANDARD DETAILS.

STANDARD UTILITY CROSSING

City of Port Wentworth
TECHNICAL DETAILS
W-6

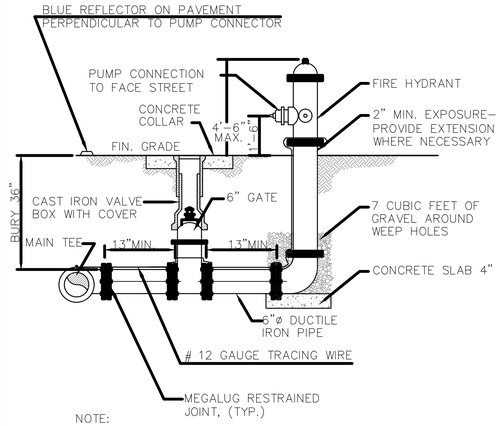
PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



PIPE BEDDING

City of Port Wentworth
TECHNICAL DETAILS
W-8

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



NOTE:
1. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE RESTRAINED.
2. PROTECT BOLTS AND THREADS FROM CONCRETE.

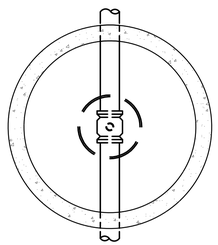
STANDARD FIRE HYDRANT

City of Port Wentworth
TECHNICAL DETAILS
W-9

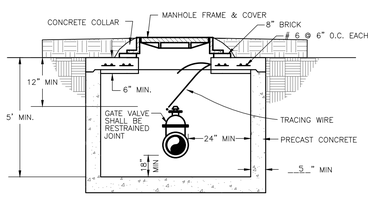
PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007

NOTES:

1. MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY CO. CATALOG NO. R-1668, TYPE C, LABELED "WATER".
2. THE BOTTOM OF THE MANHOLE FRAME SHALL NOT BE MORE THAN 12" ABOVE THE TOP OF THE MANHOLE STRUCTURE.
3. PRECAST CONCENTRIC CONE RISERS MAY BE USED WHERE REQUIRED FOR DEPTH.
4. THE MANHOLE FRAME AND COVER MUST BE CENTERED OVER THE VALVE.



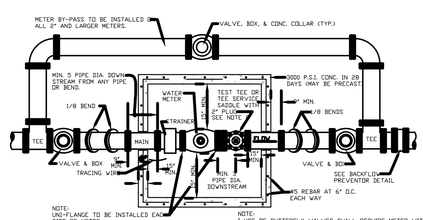
PLAN



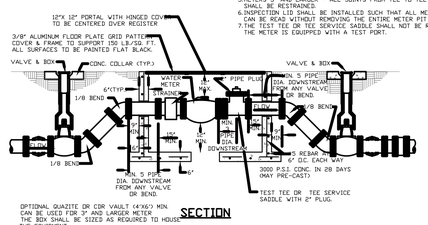
VALVE MANHOLE FOR 8" & GREATER GATE VALVE

City of Port Wentworth
TECHNICAL DETAILS
W-14

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



NOTE:
1. USE OF BUTTERFLY VALVES SHALL REQUIRE METER WITH DOUBLE STRAINER.
2. TURBINE METERS (CLASS II) SHALL HAVE UL APPROVED STRAINERS
3. COMPLETE BY-PASS ASSEMBLY IS REQUIRED ON ALL METERS.
4. VALVES GREATER THAN 2" SHALL BE MECHANICAL JOINT GATE VALVES.
5. METERS 3" AND LARGER - ALL JOINTS FROM TEE TO TEE SHALL BE RESTRAINED.
6. INSPECTION LID SHALL BE INSTALLED SUCH THAT ALL METER REGISTERS CAN BE READ WITHOUT REMOVING THE ENTIRE METER PIT LID.
7. THE TEST TEE OR TEE SERVICE SADDLE SHALL NOT BE REQUIRED IF THE METER IS EQUIPPED WITH A TEST PORT.



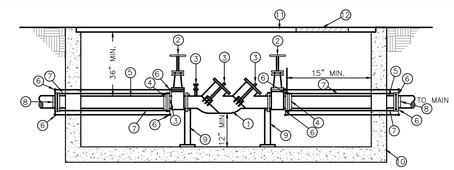
OPTIONAL QUAZITE OR CDR VAULT (4'X6') MIN. CAN BE USED FOR 3" AND LARGER METER THE BOX SHALL BE SIZED AS REQUIRED TO HOUSE THE EQUIPMENT.

SECTION

WATER METER INST. 3" AND LARGER

City of Port Wentworth
TECHNICAL DETAILS
W-15

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



MATERIALS		
ITEM	QUAN.	DESCRIPTION
1	1	DOUBLE CHECK VALVE ASSEMBLY
2	2	NON-RISING RESILIENT SEAT GATE VALVES
3	4	TEST COCKS
4	2	COMPANION FLANGE
5		DUCTILE IRON PIPE, CUT TO FIT
6	8	CARBON STEEL EYE BOLTS
7		3/4 GALV. ALL THREAD ROD
8		MEGA LUG OR EQUIVALENT FOR DUCTILE PIPE
9	2	2" SCH. 40 GALV. PIPE STAND & BASE BOLTED TO FLANGE
10		PIT-CEMENT BLOCK, POURED CONCRETE, OR PREFABRICATED BOX PER CITY SPECS.
11		3/8 ALUM. FLOOR PLATE / HATCH COVER W/FLUSH HANDLE
12		2' X 2' MIN. HATCH

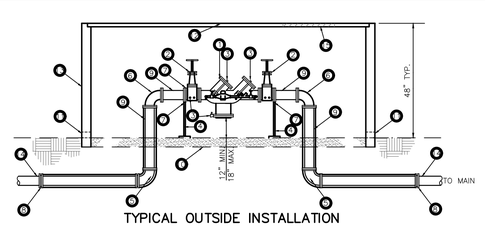
NOTE:
1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE (IF APPLICABLE), UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.
2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS, AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTION DEVICE; UNDER NO CIRCUMSTANCE, SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION, OTHER THAN BACKFLOW DEVICE TESTING.

TYPICAL BELOW GRADE INSTALLATION
(3", 4", 6", 8", & 10" SIZES)

DOMESTIC DOUBLE CHECK VALVE ASSEMBLY (B)

City of Port Wentworth
TECHNICAL DETAILS
W-21

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



TYPICAL OUTSIDE INSTALLATION
(2", 2 1/2", 3", 4", 6", 8", & 10" SIZES)

MATERIALS		
ITEM	QUAN.	DESCRIPTION
1	1	REDUCED PRESSURE ZONE DEVICE
2	2	O.S. & Y RESILIENT GATE VALVES
3	4	TEST COCKS
4	2	2" SCH 40 GALV. PIPE STAND & BASE BOLTED TO FLANGE
5	2	MJ. 45° OR 90° BENDS
6	4	FLANGED 45° OR 90° BENDS
7	2	ADAPTER FLANGES (UNION SHALL BE USED FOR 2")
8	16	CARBON STEEL EYE BOLTS
9		DUCTILE IRON PIPE, CUT TO FIT
10		4" PEA GRAVEL IN BOTTOM OF PIT OR CONCRETE SLAB
11	2	DRAIN PORTS SIZE ACCORDING TO PIPE SIZE
12		3/8 ALUMINUM TREAD PLATE / HATCH COVER W/ SUPPORTS AS NEEDED.
13		BOX-CONCRETE BLOCK, POURED CONCRETE OR PREFABRICATED BOX PER CITY SPECS
14		D.I. OR PVC PIPE
15		2' X 2' MIN. HATCH

NOTES:
1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE (IF APPLICABLE). UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED IMMEDIATELY DOWNSTREAM OF METER.
2. UNDER NO CIRCUMSTANCE SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR ANY USE OTHER THAN BACKFLOW DEVICE TESTING.

REDUCED PRESSURE DETECTOR FOR FIRE SYSTEM

City of Port Wentworth
TECHNICAL DETAILS
W-24

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

WATER & SEWER DETAILS

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

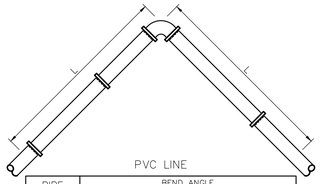
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

C2.8

Z:\25412\civil\2025\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - WS DETAILS - Aug 5, 2025 - 4:49 PM

BID SET - NOT FOR CONSTRUCTION



PVC LINE

PIPE DIA.	BEND ANGLE			
	11 1/4°	22 1/2°	45°	90°
4	3	6	12	29
6	4	8	17	41
8	5	11	22	53
10	6	13	26	64
12	7	15	31	75

DUCTILE IRON LINE

PIPE DIA.	BEND ANGLE			
	11 1/4°	22 1/2°	45°	90°
4	2	4	8	20
6	3	6	12	28
8	4	7	15	36
10	4	9	18	43
12	5	10	21	51
16	6	13	27	65
20	8	16	33	79
24	9	18	38	92

MINIMUM RESTRAINED LENGTH (L)

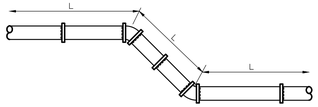
NOTES:

1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

STANDARD HORIZONTAL BEND RESTRAINT

City of Port Wentworth
TECHNICAL DETAILS
W-27

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



PVC LINE

PIPE DIA.	BEND ANGLE			
	11 1/4°	22 1/2°	45°	90°
4	5	10	22	52
6	7	15	30	74
8	9	19	40	96
10	11	23	48	115
12	13	27	56	136

DUCTILE IRON LINE

PIPE DIA.	BEND ANGLE			
	11 1/4°	22 1/2°	45°	90°
4	3	6	12	28
6	4	8	17	40
8	4	10	22	52
10	5	12	26	62
12	6	15	30	73
16	7	19	39	94
20	11	23	47	114
24	13	26	55	132

MINIMUM RESTRAINED LENGTH (L)

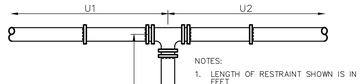
NOTES:

1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

STANDARD VERTICAL BEND RESTRAINT

City of Port Wentworth
TECHNICAL DETAILS
W-28

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



NOTES:

1. LENGTH OF RESTRAINT SHOWN IS IN FEET
2. WHERE LIMITS CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. U1 AND U2 = UNINTERRUPTED STRAIGHT RUNS OF PIPE IN EACH DIRECTION.
4. Ur = THE SMALLER OF U1 OR U2.
5. L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH
6. WHERE Ur IS LESS THAN 5', RESTRAIN TEE AS A 90° HORIZONTAL BEND.

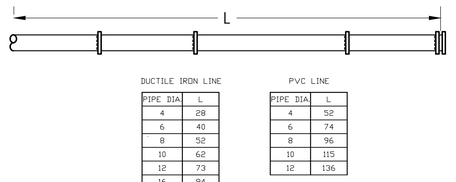
Ur-Ut	5'-10"	11'-20"	21'-35"	> 35'
4x4	43	28	4	*
6x4	38	17	*	*
6x6	64	49	25	*
8x4	34	6	*	*
8x6	61	42	10	*
8x8	87	72	48	12
10x4	29	*	*	*
10x6	58	34	*	*
10x8	84	66	35	*
10x10	106	91	67	31
12x4	24	*	*	*
12x6	54	26	*	*
12x8	82	60	23	*
12x10	104	86	57	13
12x12	126	112	87	51

MINIMUM RESTRAINED LENGTH (L)
* RESTRAIN AT TEE ONLY

STANDARD TEE RESTRAINT (PVC LINE)

City of Port Wentworth
TECHNICAL DETAILS
W-29

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



DUCTILE IRON LINE

PIPE DIA	L
4	28
6	40
8	52
10	62
12	73
16	94
20	114
24	132

PVC LINE

PIPE DIA	L
4	52
6	74
8	96
10	115
12	136

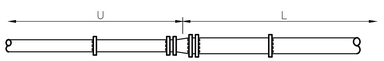
NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LIMITS CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. FOR LINE STUBS (SEE DETAIL W39), THE LENGTH OF RESTRAINT (L) SHALL BE FROM THE VALVE AND NOT THE CAP.

STANDARD DEAD END RESTRAINT

City of Port Wentworth
TECHNICAL DETAILS
W-31

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25



DUCTILE IRON LINE

REDUCER	U	L
6x4	30	21
8x4	72	38
8x6	29	22
10x4	123	51
10x6	63	38
10x8	26	21
12x4	186	64
12x6	106	53
12x8	59	39
12X10	26	21
16x6	214	79
16x8	141	68
16x10	91	56
16x12	54	40
20x10	174	84
20x12	123	71
20x16	51	40
24x12	207	97
24x16	113	72
24x20	48	39

PVC LINE

REDUCER	U	L
6x4	56	38
8x4	134	69
8x6	53	40
10x4	227	94
10x6	117	71
10x8	49	39
12x4	343	118
12x6	196	99
12x8	109	72
12x10	48	40

U = MINIMUM UNINTERRUPTED STRAIGHT RUN OF PIPE ON SMALL SIDE OF REDUCER.

L = MINIMUM RESTRAINED LENGTH.

* WHERE MINIMUM "U" IS NOT MET, PIPE ON LARGE SIDE OF REDUCER SHALL BE RESTAINED FOR A MINIMUM OF "L" FEET.

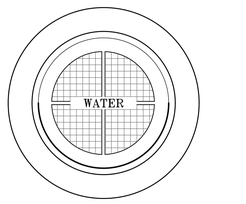
NOTES:

1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LIMITS CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

STANDARD REDUCER RESTRAINT

City of Port Wentworth
TECHNICAL DETAILS
W-32

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



PLAN

SECTION

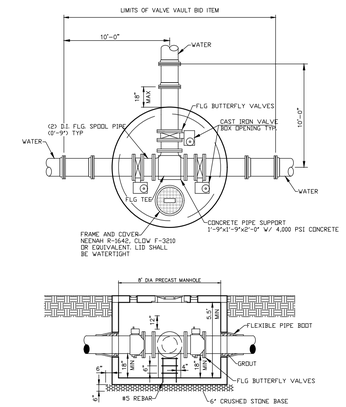
NOTE:

MANHOLE RING & COVER SHALL BE HEAVY DUTY RATED EQUAL TO U. S. FOUNDRY CO. USF 195-ORS. TOTAL WEIGHT 325# TYPE "C" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED 2 1/2" -3" LETTER HEIGHT "WATER" (NON VENTED). MANHOLE RING SHALL INCLUDE A WATERTIGHT GASKET. STACKING CLEATS ON THE BOTTOM OF THE COVER SHALL NOT BE ALLOWED.

MANHOLE RING & COVER

City of Port Wentworth
TECHNICAL DETAILS
W-34

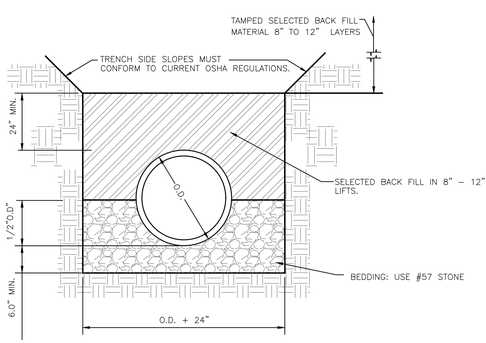
PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



WATER VALVE VAULT

City of Port Wentworth
TECHNICAL DETAILS
W-35

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007



PIPE BEDDING

City of Port Wentworth
TECHNICAL DETAILS
S-8

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.
SCALE: N.T.S.
DATED: FEBRUARY 2007

THOMAS & HUTTON

50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

WATER & SEWER DETAILS

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

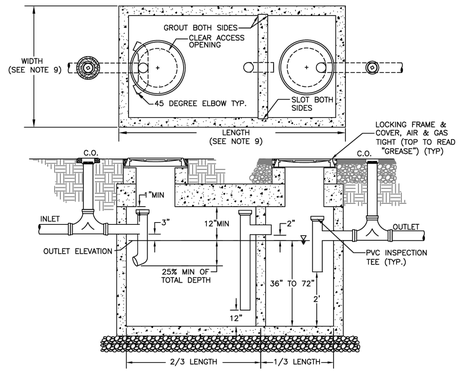
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

C2.9

NOTES:

1. CONCRETE: 28 DAY ≥ 4500 psi.
2. REBAR: ASTM A615 GRADE 60.
3. MESH: ASTM A.185 GRADE 65.
4. DESIGN: ACI318.83 BUILDING CODE – ASTM C.857 MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.
5. LOADS: H-20 TRUCK WHEEL w/30% IMPACT PER AASHTO.
6. FILL w/CLEAN WATER PRIOR TO START UP OF SYSTEM.
7. CONTRACTOR TO SUPPLY & INSTALL ALL PIPING AND SANITARY TEEs. 2 DOUBLE-SWEEP CLEAN OUTS (FOR CLEANING TOWARD AND AWAY FROM TANK ON BOTH THE INLET AND OUTLET SIDES).
8. GREY WATER ONLY, BLACK WATER SHALL BE CARRIED.
9. THE LENGTH OF THE TANK SHALL BE ONE AND ONE HALF (1.5) TIMES THE WIDTH.
10. IN UNPAVED AREAS, PROPERLY BED AND SET EDGE OF PRECAST CONCRETE COLLAR FLUSH WITH FINISHED GRADE. NO COLLAR IS REQUIRED IN PAVED AREAS, SET CLEANOUT FLUSH WITH PAVEMENT.

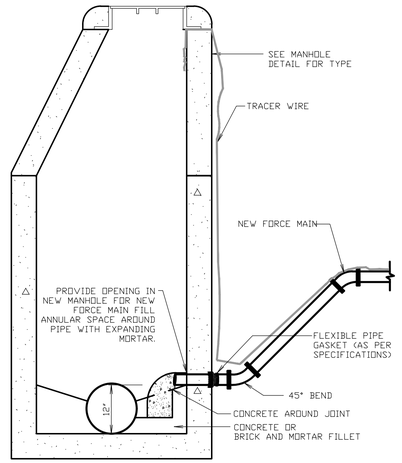


GRAVITY GREASE INTERCEPTOR

STANDARD CONSTRUCTION DETAILS

CITY OF savannah
WATER RESOURCES AND PUBLIC WORKS BUREAU
Planning & Engineering

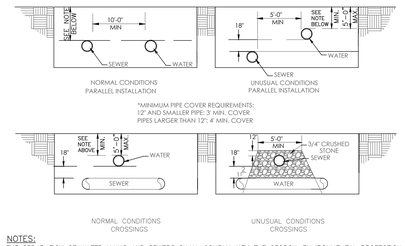
SCALE: N.T.S.
DATED: JAN 2017
PLATE NUMBER: S26



NEW FORCE MAIN TO NEW MANHOLE

NOT TO SCALE

S6
OCT. 2008
THOMAS & HUTTON ENGINEERING CO.



NOTES:

THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS. "WATER" LINES MAY REFER TO WATER MAINS OR WATER SERVICE LINES. "SEWER" LINES MAY REFER TO SANITARY SEWERS, STORM SEWERS, OR HOUSE SEWERS.

A. PARALLEL INSTALLATION:

1. NORMAL CONDITIONS: THE INSIDE EDGE OF A WATER LINE SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE INSIDE EDGE OF ANY SANITARY SEWER, STORM SEWER OR SEWER MANHOLE.

   MAXIMUM OBTAINABLE SEPARATION BETWEEN RECLAIMED WATER MAINS AND POTABLE WATER MAINS SHALL BE IMPLEMENTED. A MINIMUM HORIZONTAL SEPARATION OF 3 FEET, FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE, SHALL BE MAINTAINED BETWEEN RECLAIMED WATER MAINS AND EITHER POTABLE WATER MAINS OR SEWER COLLECTION MAINS.

2. UNUSUAL CONDITIONS: WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, AND WHEN APPROVED BY THE ENGINEER, THE INSIDE EDGE OF A WATER MAIN MAY BE LAID A MINIMUM OF 5 FEET FROM THE INSIDE EDGE OF A SEWER PROVIDED THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER (SEE DETAIL), AND THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF.

   A MINIMUM OF 18 INCHES SHALL BE MAINTAINED BETWEEN THE BOTTOM OF POTABLE WATER MAINS AND THE TOP OF RECLAIMED WATER MAINS.

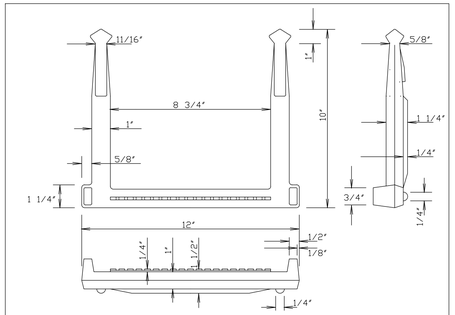
B. CROSSINGS:

1. NORMAL CONDITIONS: WHENEVER POSSIBLE, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.

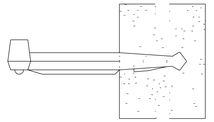
2. UNUSUAL CONDITIONS: IF A WATER MAIN MUST CROSS UNDER A SEWER, THE TOP OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES LOWER THAN THE BOTTOM OF THE SEWER. THE WATER MAIN PIPE SHALL BE CONSTRUCTED OF WATER MAIN MATERIALS CENTERED AT THE CROSSING SO THAT THE JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER, AND ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE SEWER AT THE CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL INCLUDE BACKFILLING THE ENTIRE UTILITY CROSSING AREA WITH 3/4" CRUSHED STONE AS SHOWN IN THE DETAIL. IN ADDITION, ONE OF THE FOLLOWING MEASURES SHALL BE TAKEN:

- BOTH WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF WATER MAIN MATERIALS EXTENDING ON EACH SIDE OF THE CROSSING UNTIL AT LEAST 10 FEET SEPARATES THE TWO PIPES. WATER MAIN AND SEWER SHALL BE SUBJECTED TO HYDROSTATIC TESTING AS PRESCRIBED IN THE GEORGIA EPD MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS, LATEST EDITION.
- WATER MAIN OR SEWER SHALL BE ENCASED IN A CASING PIPE CONSTRUCTED OF WATER MAIN MATERIALS EXTENDING ON EACH SIDE OF THE CROSSING UNTIL AT LEAST 10 FEET SEPARATES THE TWO PIPES.
- SEWER SHALL HAVE STRUCTURAL LINING THAT MEETS ASTM F1216 STANDARDS AND EXTENDS ON EACH SIDE OF CROSSING UNTIL AT LEAST 10 FEET SEPARATES WATER MAIN AND SEWER PIPE.

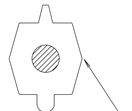
MINIMUM WATER, SEWER, STORM, AND RECLAIMED PIPE SEPARATION REQUIREMENTS



MANHOLE STEPS SHALL BE M.A. IND.,INC. MODEL NO. PS 1, PS 1-PF OR EQUIVALENT



STEPS SHALL BE PLACED INTO WET CONCRETE WALL DURING MANUFACTURE, OR HAND DRIVEN INTO PREFORMED HOLES AFTER CONCRETE HAS CURED.



POLYPROPYLENE PLASTIC W/ 1/2" GRADE 60 STEEL REINFORCEMENT

S7
JUNE 2018
THOMAS & HUTTON ENGINEERING CO.

MANHOLE STEP DETAIL

NOT TO SCALE

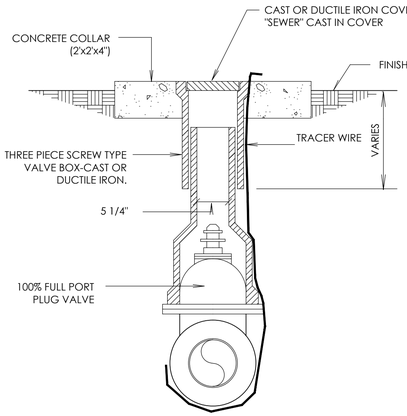
NOTES:

1. GRAVITY GREASE INTERCEPTOR DESIGNED BY OTHERS (PLEASE SEE SHEET P.600. ANCHOR PARK CONCESSION AND TEAM ROOM FACILITY PLANS FOR PLUMBING SCHEDULE. CONTRACTOR TO COORDINATE MANUFACTURER'S DETAILS WITH PLUMBER.)

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

NOTE:
1. IF UNPAVED AREA SET TOP OF CONC. COLLAR 1" ABOVE FINISHED GRADE. IN PAVED AREAS SET TOP OF BOX FLUSH W/ PAVEMENT. NO CONC. COLLAR REQUIRED.
2. DO NOT WRAP TRACER WIRE AROUND VALVE NUT.



S40
OCT. 2008
THOMAS & HUTTON

PLUG VALVE IN BOX DETAIL

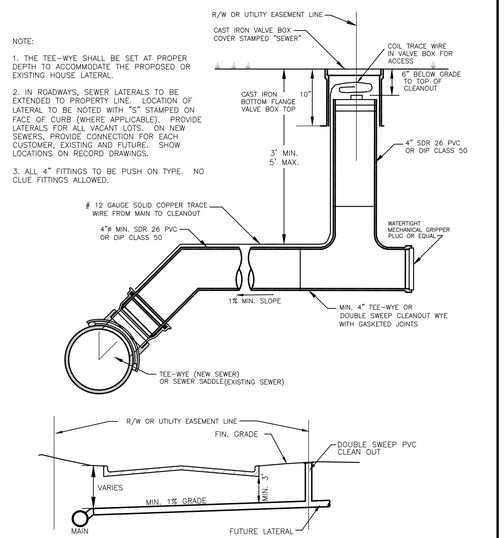
SCALE: NONE

NOTE:

1. THE TEE-WYE SHALL BE SET AT PROPER DEPTH TO ACCOMMODATE THE PROPOSED OR EXISTING HOUSE LATERAL.

2. IN ROADWAYS, SEWER LATERALS TO BE EXTENDED TO PROPERTY LINE. LOCATION OF LATERAL TO BE NOTED WITH "S" STAMPED ON FACE OF CURB (WHERE APPLICABLE). PROVIDE LATERALS FOR ALL VACANT LOTS. ON NEW SEWERS, PROVIDE CONNECTION FOR EACH CUSTOMER, EXISTING AND FUTURE. SHOW LOCATIONS ON RECORD DRAWINGS.

3. ALL 4" FITTINGS TO BE PUSH ON TYPE. NO CLUE FITTINGS ALLOWED.



SANITARY SEWER SERVICE CONNECTION

City of Port Wentworth
TECHNICAL DETAILS

S-4

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007

ZOELLER

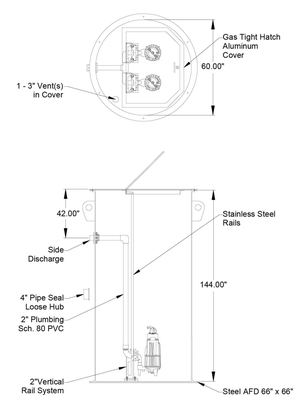
Pump Station: 3

CPQ Quote #: ZCOAF000052-1
Location:
Date: 03/24/2025
Contact Info: Joe Hyland
800-401-4870

Prepackaged Duplex Basin System, Pre-Plumbed, w/RailSystems (Stainless Steel Pump Lifting Cables Included)
Ball Valves & Check Valves installed.

Basic System Information	
Build Type	Prepackaged
System Type	Duplex
Discharge Exit	Side
Intended Pump Data	
Pump Division	Engineered Product
Pump Family	7100 X7100
Pump Discharge	2"Vertical
Basin Size Preferences	
Basin Diameter	60"
Basin Height	144"
Cover Preferences	
Cover Surface	Gas Tight Hatch
Cover Material	Aluminum
Vent Quantity	1
Vent Size	3"
Plumbing Preferences	
Inlet Hub	4" Pipe Seal
Discharge Piping	2"
Discharge Depth	42"
Pipe Material	Sch. 80 PVC
Shutoff Valve	Ball Valve
Disconnect Preferences	
Class	Standard
Rail Material	Stainless Steel
Design Aids	
Hub Invert Depth[1]	84"
Gallons/Inch	12.24
Working Vol.(gal)[2]	293.8
Accessories	
Lifting Lugs	Yes
Electrical Coupling	Loose x2
Stud Pattern	

[1]Hub is field installed. Depth is used to compute working volumes.
[2]Usable volumes between inlet invert and minimum water level.



NOTES: Approximate Weight: 1650lbs. DRAWING IS NOT TO SCALE. PUMPS NOT INCLUDED - Pumps only shown for reference. COVERS ARE RATED FOR 300 PSF. Individual components may differ from those shown. Customer is wholly responsible for verifying code compliance.

Date:_____ **Signature for Approval:**_____

DATUM: HORIZ.: NAD83 VERT.: NAVD88

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

WATER & SEWER DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

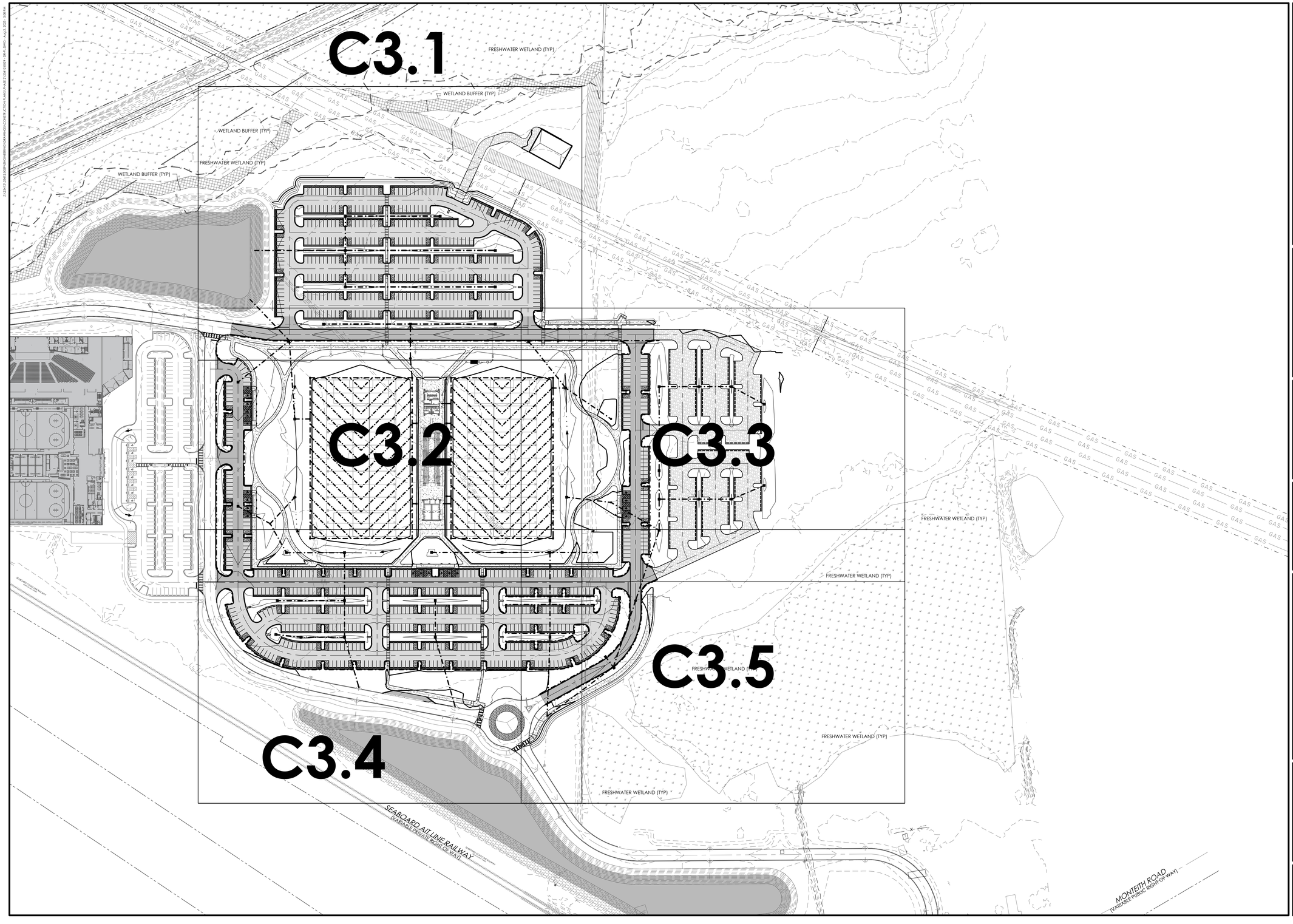
PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

C2.10

Z:\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - WS DETAILS - Aug 5, 2025, 4:38 PM



BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

OVERALL PAVING, GRADING & DRAINAGE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

100 0 50 100
GRAPHIC SCALE:
1 INCH = 100 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 100'

C3.0

Z:\25412\0_25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - DNP1.DWG - Aug 13, 2025 - 3:58 PM

BID SET - NOT FOR CONSTRUCTION

WETLAND BUFFER (TYP)

BENCHMARK
BENCHMARK 18" OAK
ELEV=14.4

25'

WETLAND BUFFER (TYP)

WETLAND SIGN

ZONE X (0.2%)
ZONE AE

FRESHWATER WETLAND (TYP)

ZONE X

ZONE X (0.2%)

ZONE AE

APPROXIMATE LOCATION OF
SOUTHERN NATURAL GAS COMPANY 90' R/W

6" PVC UNDERDRAIN

219 LF 24" RCP @ 1.05%

79 LF 24" RCP
@ 0.30%

RI #14
FR: 17.13
TH: 16.13
INV. IN: 9.51 (SE)
INV. OUT: 9.51 (SW)

RI #13
FR: 17.30
TH: 16.30
INV. IN: 9.30 (SE)
INV. IN: 9.27 (NE)
INV. IN: 9.27 (SW)
INV. OUT: 9.12 (NW)

RI #15
FR: 17.30
TH: 16.30
INV. OUT: 11.80 (NW)

6" PVC UNDERDRAIN

#87
INV. IN: 8.50 (SE)

208 LF 36" RCP @ 0.30%

346 LF 24" RCP @ 0.42%

EXISTING POND 1
TOP: 17.5
NWL: 13.0
BOTTOM: 3.0
10-YEAR: 15.83
25-YEAR: 16.20
50-YEAR: 16.49
100-YEAR: 16.74

SEE 25412.0029 - PORT WENTWORTH RECREATIONAL COMPLEX PHASE 1C PLANS FOR OUTFALL

84 LF 30" RCP
@ 0.30%

RI #12
FR: 16.67
TH: 15.67
INV. OUT: 10.75 (NW)

RI #11
FR: 17.30
TH: 16.30
INV. OUT: 11.80 (NW)

RI #10
FR: 17.30
TH: 16.30
INV. IN: 9.52 (SE)
INV. OUT: 9.52 (NE)

6" PVC UNDERDRAIN

346 LF 24" RCP @ 0.66%

#71
INV. IN: 6.90 (S)

RI #54
FR: 17.31
TH: 16.31
INV. IN: 9.64 (NW)
INV. IN: 9.64 (SE)
INV. OUT: 9.14 (SW)

6" PVC UNDERDRAIN

131 LF 48" RCP @ 0.30%

200 LF 24" RCP @ 0.30%

196 LF 24" RCP @ 0.30%

MATCH LINE - SEE SHEET NO. C3.2

6" PVC UNDERDRAIN

RI #52
FR: 17.30
TH: 16.30
INV. OUT: 10.24 (SE)

11 LF 30" RCP
@ 0.30%

CB #58
FR: 17.99
INV. IN: 9.11 (NE)
INV. OUT: 8.81 (SW)

6" PVC UNDERDRAIN

RI #55
FR: 17.30
TH: 16.30
INV. OUT: 10.23 (NW)

CB #24
FR: 17.99
INV. IN: 8.94 (SE)
INV. IN: 8.94 (S)
INV. OUT: 8.94 (NW)

152 LF 15" RCP
@ 0.30%

279 LF 42" RCP @ 0.30%

27 LF 30" RCP
@ 0.30%

41 LF 18" RCP
@ 5.04%

271 LF 36" RCP @ 0.30%

301 LF 30" RCP @ 0.47%

6" PVC UNDERDRAIN

CB #26
FR: 18.00
INV. IN: 7.29 (SE)
INV. IN: 9.79 (SW)
INV. IN: 10.04 (W)
INV. OUT: 7.29 (N)

CB #25
FR: 17.99
INV. IN: 8.73 (NE)
INV. IN: 10.13 (SW)
INV. IN: 8.13 (SE)
INV. OUT: 8.13 (NW)

SMH #36
FR: 18.87
INV. IN: 12.70 (SW)
INV. OUT: 12.20 (NE)

12'W

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

DRAINAGE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.1

BID SET - NOT FOR CONSTRUCTION

MATCH LINE - SEE SHEET NO. C3.1

RI #54
FR: 17.31
TH: 16.31
INV. IN: 9.64 (NW)
INV. IN: 9.64 (SE)
INV. OUT: 9.14 (SW)

200 LF 24" RCP @ 0.30%
196 LF 24" RCP @ 0.30%
6" PVC UNDERDRAIN
131 LF 48" RCP @ 0.30%
RI #52
FR: 17.30
TH: 16.30
INV. OUT: 10.24 (SE)
11 LF 30" RCP @ 0.30%
CB #58
FR: 17.99
INV. IN: 9.11 (NE)
INV. OUT: 8.81 (SW)
RI #55
FR: 17.30
TH: 16.30
INV. OUT: 10.23 (NW)
CB #24
FR: 17.99
INV. IN: 8.94 (SE)
INV. IN: 8.94 (S)
INV. OUT: 8.94 (NW)
279 LF 42" RCP @ 0.30%
271 LF 36" RCP @ 0.30%
301 LF 30" RCP @ 0.47%
152 LF 15" RCP @ 0.30%
27 LF 30" RCP @ 0.30%
41 LF 18" RCP @ 5.04%
CB #26
FR: 18.00
INV. IN: 7.29 (SE)
INV. IN: 9.79 (SW)
INV. IN: 10.04 (W)
INV. OUT: 7.29 (N)
CB #25
FR: 17.99
INV. IN: 8.73 (NE)
INV. IN: 10.13 (SW)
INV. IN: 8.13 (SE)
INV. OUT: 8.13 (NW)
SMH #36
FR: 18.87
INV. IN: 12.70 (SW)
INV. OUT: 12.20 (NE)
45 LF 15" HDPE @ 5.04%
GI #32
FR: 17.20
INV. OUT: 10.50 (E)
181 LF 18" RCP @ 2.72%
234 LF 12" HDPE @ 0.54%
235 LF 15" HDPE @ 0.30%
139 LF 18" RCP @ 1.38%
YI #67
FR: 19.60
INV. IN: 13.84 (NW)
INV. OUT: 13.84 (SW)
29 LF 12" HDPE @ 8.31%
YI #37
FR: 19.60
INV. OUT: 16.45 (SW)
YI #35
FR: 19.75
INV. IN: 15.19 (NW)
INV. IN: 15.19 (SW)
INV. OUT: 14.94 (NE)
FR: 19.80
YI #69
FR: 19.75
INV. IN: 14.54 (SW)
INV. OUT: 14.54 (SE)
FR: 19.80
59 LF 15" HDPE @ 0.30%
46 LF 15" HDPE @ 0.30%
ACO SPORT SYSTEM 4000 IN-LINE CATCH BASIN
FR: 19.60
INV. OUT: 16.97 (SE)
24 LF 15" HDPE @ 0.30%
15" X 12" TEE #(43)
INV. IN: 13.77 (SW)
INV. IN: 13.77 (NE)
INV. OUT: 13.77 (SE)
95 LF 12" HDPE @ 0.30%
12" X 12" TEE #81
INV. IN: 16.17 (NE)
INV. IN: 16.17 (SW)
INV. OUT: 16.17 (NW)
105 LF 15" HDPE @ 0.30%
INV. OUT: 16.34 (SE)
22 LF 10" HDPE @ 7.52%
15" X 6" TEE #76
16.61
INV. IN: 15.50 (SE)
INV. IN: 15.50 (SW)
INV. OUT: 15.50 (NE)
15" X 10" TEE #(56)
16.14
INV. IN: 14.72 (SW)
INV. IN: 14.72 (NW)
INV. OUT: 14.72 (NE)
15" X 6" TEE #73
INV. IN: 14.86 (SW)
INV. IN: 14.86 (NW)
INV. OUT: 14.86 (NE)
RI #34
FR: 17.59
TH: 17.59
INV. IN: 11.36 (SE)
INV. IN: 11.36 (NW)
INV. OUT: 10.86 (N)
RI #38
FR: 18.20
INV. IN: 15.22 (SE)
INV. OUT: 14.72 (NE)
35 LF 12" HDPE @ 2.72%
ACO SPORT SYSTEM 4000 IN-LINE CATCH BASIN
FR: 19.60
INV. OUT: 17.75 (NW)
10 LF 6" HDPE @ 22.50%
10 LF 6" HDPE @ 21.08%
12" ADVANEDGE CORRUGATED PIPE (SEE DETAIL SHEET)
360 LF OF ACO SPORT SYSTEM 4000 OPEN CHANNEL TRENCH DRAIN SYSTEM WITH ADA BLACK GRATE (SEE DETAIL SHEET)
12" ADVANEDGE CORRUGATED PIPE (SEE DETAIL SHEET)
MATCH LINE - SEE SHEET NO. C3.3
275 LF 12" HDPE @ 0.30%
165 LF 15" HDPE @ 0.30%
168 LF 15" HDPE @ 0.30%
346 LF 12" HDPE @ 0.34%
RI #59
FR: 19.20
TH: 18.20
INV. OUT: 13.70 (W)
YI #28
FR: 18.50
INV. IN: 13.25 (NW)
INV. IN: 13.45 (E)
INV. OUT: 12.95 (S)
83 LF 12" RCP @ 0.30%
84 LF 18" RCP @ 0.30%
GI #27
FR: 18.21
INV. OUT: 13.50 (SE)
76 LF 18" RCP @ 0.30%
80 LF 15" HDPE @ 0.30%
ACO SPORT SYSTEM 4000 IN-LINE CATCH BASIN
FR: 19.60
INV. OUT: 17.75 (NW)
10 LF 6" HDPE @ 16.90%
INV. OUT: 16.28 (SE)
18 LF 10" HDPE @ 4.96%
15" X 6" TEE #(44)
INV. IN: 16.06 (SE)
INV. IN: 16.06 (SW)
INV. OUT: 16.06 (NE)
ACO SPORT SYSTEM 4000 IN-LINE CATCH BASIN
FR: 19.60
INV. OUT: 17.75 (SE)
15" X 6" TEE #74
INV. IN: 15.36 (SW)
INV. IN: 15.36 (NW)
INV. OUT: 15.36 (NE)
10 LF 6" HDPE @ 23.90%
15" X 10" TEE #(61)
INV. IN: 15.41 (SW)
INV. IN: 15.41 (NW)
INV. OUT: 15.41 (NE)
RI #41
FR: 19.30
TH: 18.30
INV. OUT: 14.03 (SE)
YI #62
FR: 19.75
INV. IN: 16.30 (NW)
INV. OUT: 16.30 (NE)
RI #30
FR: 19.00
TH: 18.00
INV. IN: 11.82 (NW)
INV. OUT: 11.82 (SW)
YI #63
FR: 19.40
INV. OUT: 17.00 (NE)
YI #64
FR: 19.75
INV. OUT: 15.65 (NE)
RI #31
FR: 19.80
TH: 18.80
INV. OUT: 14.02 (SE)
RI #39
FR: 19.20
TH: 18.20
INV. IN: 13.53 (NW)
INV. OUT: 13.03 (SE)
234 LF 12" HDPE @ 0.30%
SMH #51
FR: 18.88
INV. IN: 12.50 (SE)
INV. IN: 12.70 (NW)
INV. OUT: 12.20 (SW)
YI #66
FR: 19.60
INV. IN: 14.95 (NW)
INV. OUT: 14.95 (NE)
134 LF 24" RCP @ 0.30%
162 LF 12" RCP @ 0.30%
110 LF 18" RCP @ 0.30%
108 LF 12" RCP @ 0.30%
MATCH LINE - SEE SHEET NO. C3.4
RI #29
FR: 19.80
TH: 18.80
INV. IN: 12.72 (N)
INV. OUT: 12.22 (SE)
110 LF 24" RCP @ 0.30%
111 LF 24" RCP @ 0.30%
6" PVC UNDERDRAIN

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

DRAINAGE PLAN

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE: 1 INCH = 30 FEET (30 0 15 30)

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.2

BID SET - NOT FOR CONSTRUCTION

Z:\2541\0.2541.0.0029\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\2541.0.0029 - DRP1.DWG - Aug 8, 2025 - 3:01 PM

6" PVC UNDERDRAIN

CB #24
FR: 17.99
INV. IN: 8.94 (SE)
INV. IN: 8.94 (S)
INV. OUT: 8.94 (NW)

301 LF 30" RCP @ 0.47%

12"W

#86
INV. OUT: 10.35 (NW)

APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W

YI #67
FR: 19.60
INV. IN: 13.84 (NW)
INV. OUT: 13.84 (SW)

139 LF 18" RCP @ 1.38%

29 LF 12" HDPE @ 8.31%

92 LF 30" RCP @ 0.30%

75 LF 30" RCP @ 0.30%

85 LF 30" RCP @ 0.30%

RI #46
FR: 18.50
TH: 17.50
INV. IN: 11.63 (SE)
INV. OUT: 11.63 (SW)

RI #(63)
FR: 17.81
TH: 17.81
INV. IN: 11.90 (SE)
INV. OUT: 11.90 (NW)

RI #48
FR: 18.80
TH: 17.80
INV. IN: 12.13 (SE)
INV. OUT: 12.13 (NW)

RI #(66)
FR: 17.80
TH: 17.80
INV. OUT: 12.38 (NW)

24 LF 15" HDPE @ 0.30%

15" X 12" TEE #(43)
INV. IN: 13.77 (SW)
INV. IN: 13.77 (NE)
INV. OUT: 13.77 (SE)

127 LF 12" RCP @ 0.30%

YI #33
FR: 19.40
INV. OUT: 11.74 (NW)

RI #34
FR: 17.59
TH: 17.59
INV. IN: 11.36 (SE)
INV. IN: 11.36 (NW)
INV. OUT: 10.86 (N)

184 LF 48" RCP @ 0.30%

12" ADVANEDGE CORRUGATED PIPE (SEE DETAIL SHEET)

346 LF 12" HDPE @ 0.34%

MATCH LINE - SEE SHEET NO. C3.2

RI #47
FR: 18.51
TH: 17.51
INV. IN: 11.05 (NE)
INV. OUT: 11.05 (SW)

RI #50
FR: 18.50
TH: 17.50
INV. IN: 10.85 (NE)
INV. IN: 12.55 (SE)
INV. OUT: 10.85 (SW)

65 LF 48" RCP @ 0.30%

72 LF 48" RCP @ 0.30%

81 LF 30" RCP @ 0.30%

RI #(65)
FR: 17.80
TH: 17.80
INV. OUT: 13.30 (W)

RI #(64)
FR: 17.80
TH: 17.80
INV. IN: 12.83 (SE)
INV. OUT: 12.83 (NW)

RI #49
FR: 18.80
TH: 17.80
INV. IN: 13.05 (E)
INV. OUT: 13.05 (NW)

YI #42
FR: 19.50
INV. IN: 13.72 (NW)
INV. OUT: 13.22 (SE)

103 LF 12" RCP @ 0.30%

128 LF 18" RCP @ 0.30%

RI #41
FR: 19.30
TH: 18.30
INV. OUT: 14.03 (SE)

YI #66
FR: 19.60
INV. IN: 14.95 (NW)
INV. OUT: 14.95 (NE)

SMH #51
FR: 18.88
INV. IN: 12.50 (SE)
INV. IN: 12.70 (NW)
INV. OUT: 12.20 (SW)

YI #40
FR: 19.50
INV. OUT: 12.82 (NW)

110 LF 18" RCP @ 0.30%

108 LF 12" RCP @ 0.30%

111 LF 24" RCP @ 0.30%

RI #43
FR: 18.53
TH: 17.53
INV. IN: 12.84 (NW)
INV. IN: 10.64 (NE)
INV. OUT: 10.64 (SW)

171 LF 48" RCP @ 0.30%

MATCH LINE - SEE SHEET NO. C3.5

FRESHWATER WETLAND (TYP)

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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DRAINAGE PLAN

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
30 0 15 30
1 INCH = 30 FEET

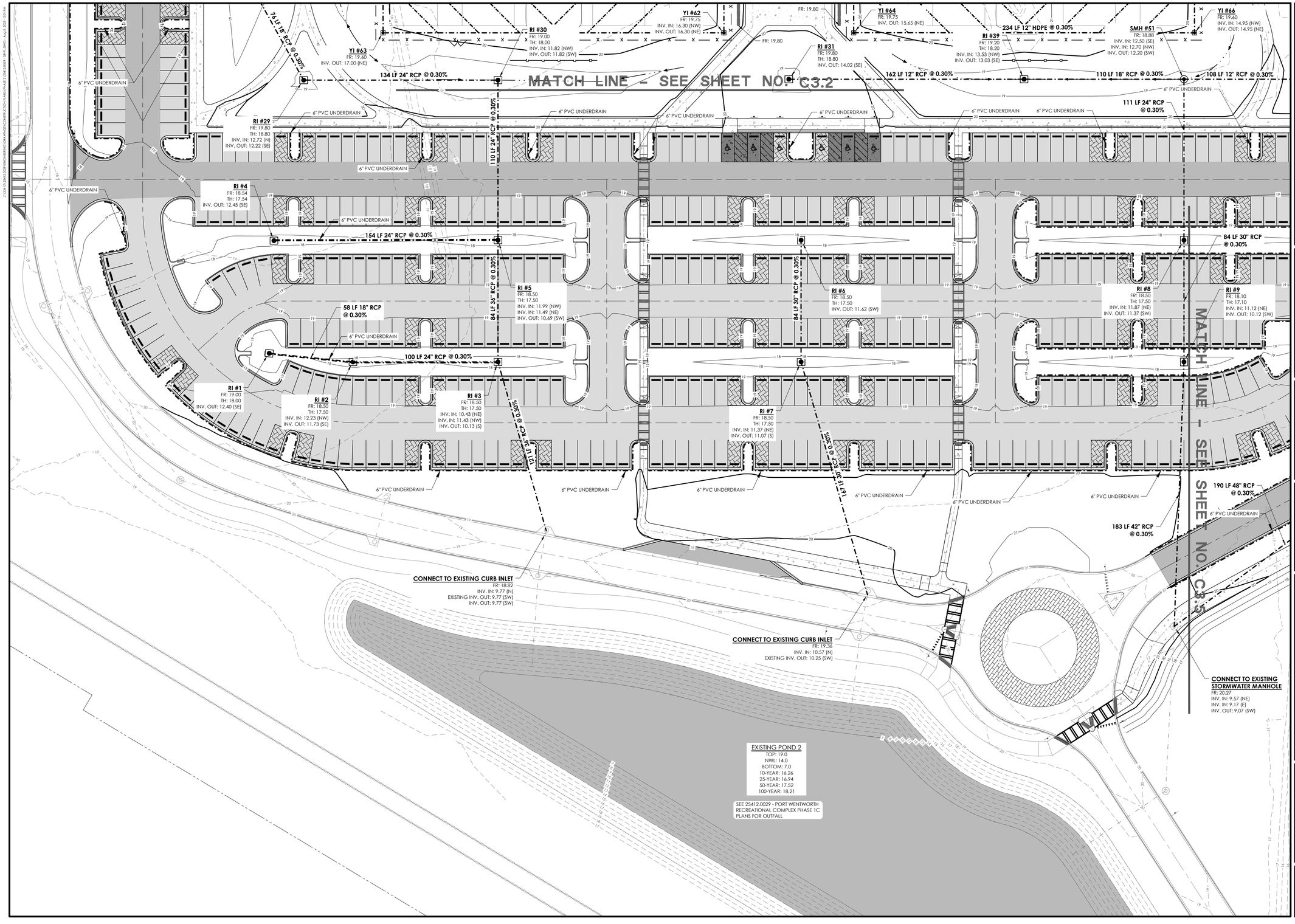
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.3

Z:\25412\0029\100\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412029 - DWG - Aug 5, 2025 - 3:01 PM

BID SET - NOT FOR CONSTRUCTION



NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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DRAINAGE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.4

Z:\25412.0029\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - DRN.DWG - Aug 5, 2025 - 3:01 PM

YI #66
FR: 19.60
INV. IN: 14.95 (NW)
INV. OUT: 14.95 (NE)

SMH #51
FR: 18.88
INV. IN: 12.50 (SE)
INV. IN: 12.70 (NW)
INV. OUT: 12.20 (SW)

YI #40
FR: 19.50
INV. OUT: 12.82 (NW)

110 LF 18" RCP @ 0.30%

108 LF 12" RCP @ 0.30%

6" PVC UNDERDRAIN

111 LF 24" RCP @ 0.30%

RI #43
FR: 18.53
TH: 17.53
INV. IN: 12.84 (NW)
INV. IN: 10.64 (NE)
INV. OUT: 10.64 (SW)

6" PVC UNDERDRAIN

MATCH LINE – SEE SHEET NO. C3.3

6" PVC UNDERDRAIN

171 LF 48" RCP @ 0.30%

FRESHWATER WETLAND (TYP)

SMH #44
FR: 19.73
INV. IN: 10.12 (NE)
INV. OUT: 10.12 (SW)

6" PVC UNDERDRAIN

84 LF 30" RCP @ 0.30%

RI #8
FR: 18.50
TH: 17.50
INV. IN: 11.87 (NE)
INV. OUT: 11.37 (SW)

RI #9
FR: 18.10
TH: 17.10
INV. IN: 11.12 (NE)
INV. OUT: 10.12 (SW)

6" PVC UNDERDRAIN

141 LF 48" RCP @ 0.30%

MATCH LINE – SEE SHEET NO. C3.4

CB #57
FR: 19.12
INV. OUT: 11.82 (S)

27 LF 24" RCP @ 0.67%

190 LF 48" RCP @ 0.30%

6" PVC UNDERDRAIN

6" PVC UNDERDRAIN

183 LF 42" RCP @ 0.30%

CB #45
FR: 19.19
INV. IN: 9.64 (NE)
INV. IN: 11.64 (N)
INV. OUT: 9.64 (W)

CONNECT TO EXISTING STORMWATER MANHOLE
FR: 20.27
INV. IN: 9.57 (NE)
INV. IN: 9.17 (E)
INV. OUT: 9.07 (SW)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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DRAINAGE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

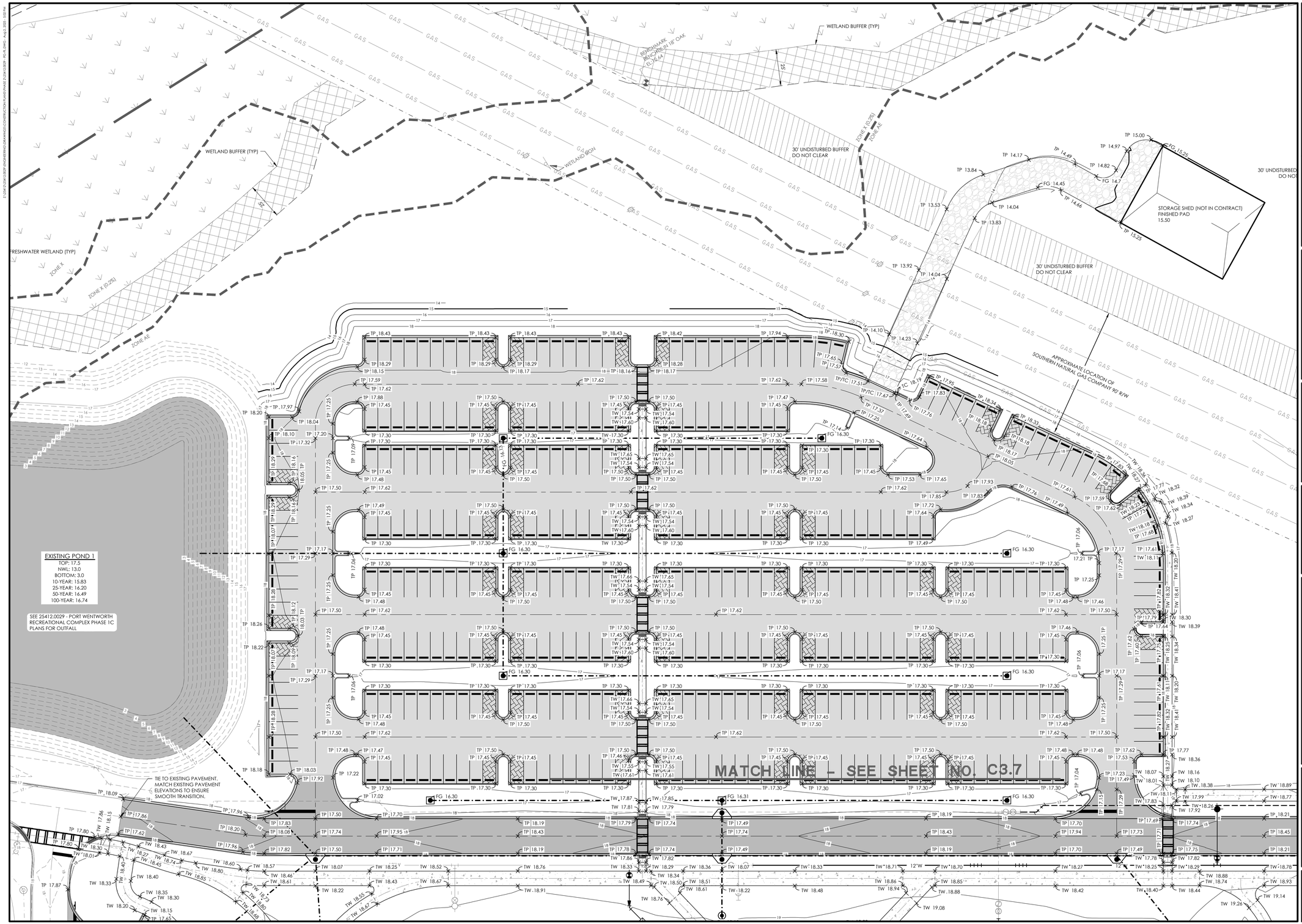
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.5

Z:\25412\0029\300\PLANS\CONSTRUCTION PLANS\PHASE 2\25412029 - PP2.DWG - Aug 5, 2025 - 3:00 PM



PAVEMENT LEGEND:

- LIGHT DUTY VEHICULAR ASPHALT (2" SURFACE COURSE, 6" GAB)
- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
- VEHICULAR CONCRETE (6" SLAB, 8" GAB)
- PEDESTRIAN CONCRETE
- PERVIOUS PAVERS
- 8" GRADED AGGREGATE BASE
- ADA TURNING SPACE

NOTES:

1. ASPHALT CONCRETE AND BASE COURSE MATERIALS SHOULD CONFORM TO GDOT MATERIAL SPECIFICATIONS.
   - ** SECTION 815 FOR GRADED AGGREGATE
   - ** SECTION 828 FOR HOT MIX ASPHALT CONCRETE MIXTURE.
2. REFERENCE GEOTECHNICAL ENGINEERING REPORT - PROPOSED NEW RECREATIONAL FACILITY - MONTEITH ROAD SITE | PORT WENTWORTH, GEORGIA, NOVEMBER 4, 2016 | GHD PROJECT REFERENCE NO. 1122323

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

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PAVING & GRADING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

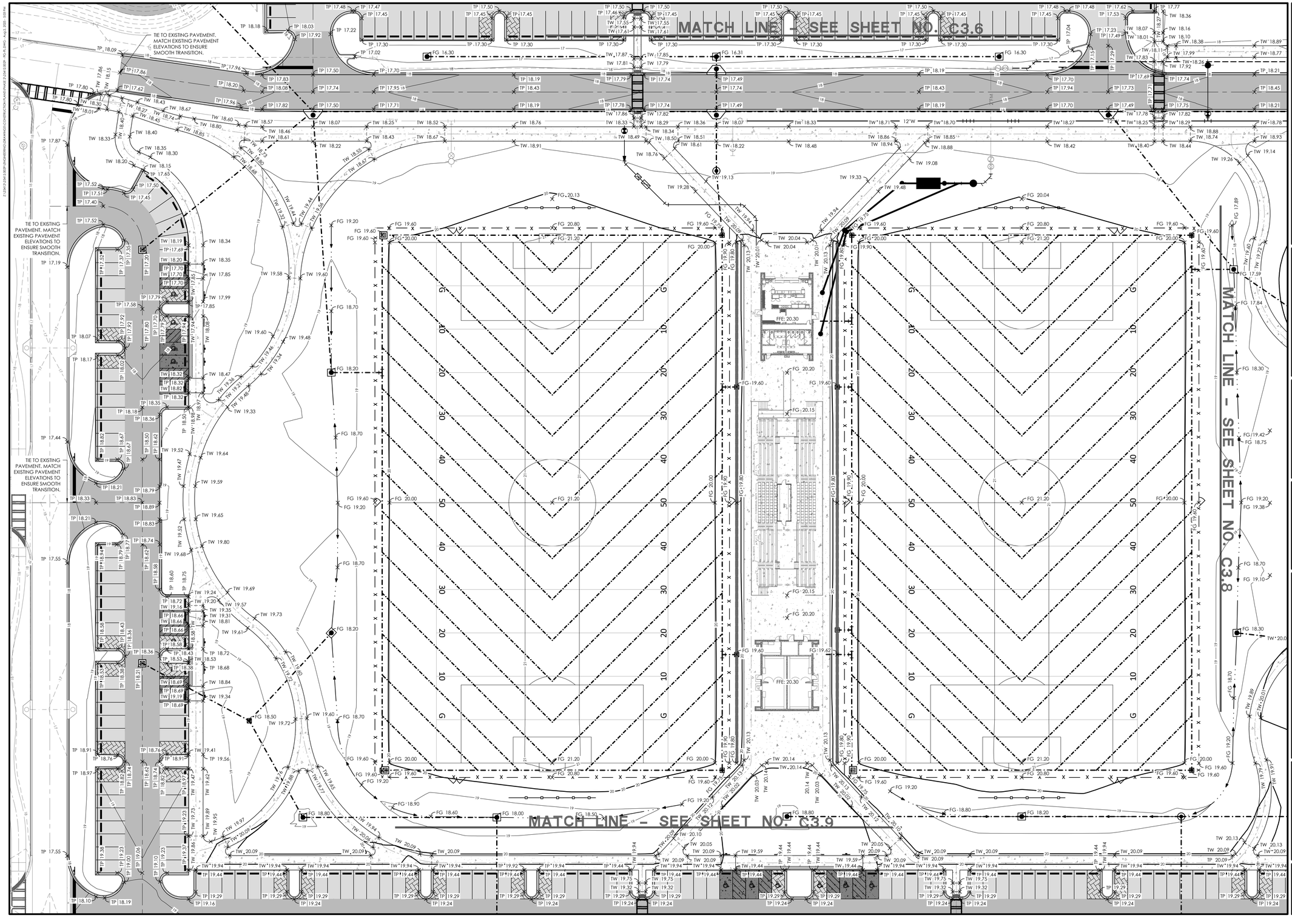
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE: 1 INCH = 30 FEET (30 0 15 30)

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.6



PAVEMENT LEGEND:

- LIGHT DUTY VEHICULAR ASPHALT (2" SURFACE COURSE, 6" GAB)
- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
- VEHICULAR CONCRETE (6" SLAB, 8" GAB)
- PEDESTRIAN CONCRETE
- PERVIOUS PAVERS
- 8" GRADED AGGREGATE BASE
- ADA TURNING SPACE

NOTES:

1. ASPHALT CONCRETE AND BASE COURSE MATERIALS SHOULD CONFORM TO GDOT MATERIAL SPECIFICATIONS.
   ** SECTION 815 FOR GRADED AGGREGATE
   ** SECTION 828 FOR HOT MIX ASPHALT CONCRETE MIXTURE.
2. REFERENCE GEOTECHNICAL ENGINEERING REPORT - PROPOSED NEW RECREATIONAL FACILITY - MONTEITH ROAD SITE | PORT WENTWORTH, GEORGIA, NOVEMBER 4, 2016 | GHD PROJECT REFERENCE NO. 1122323

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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PAVING & GRADING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

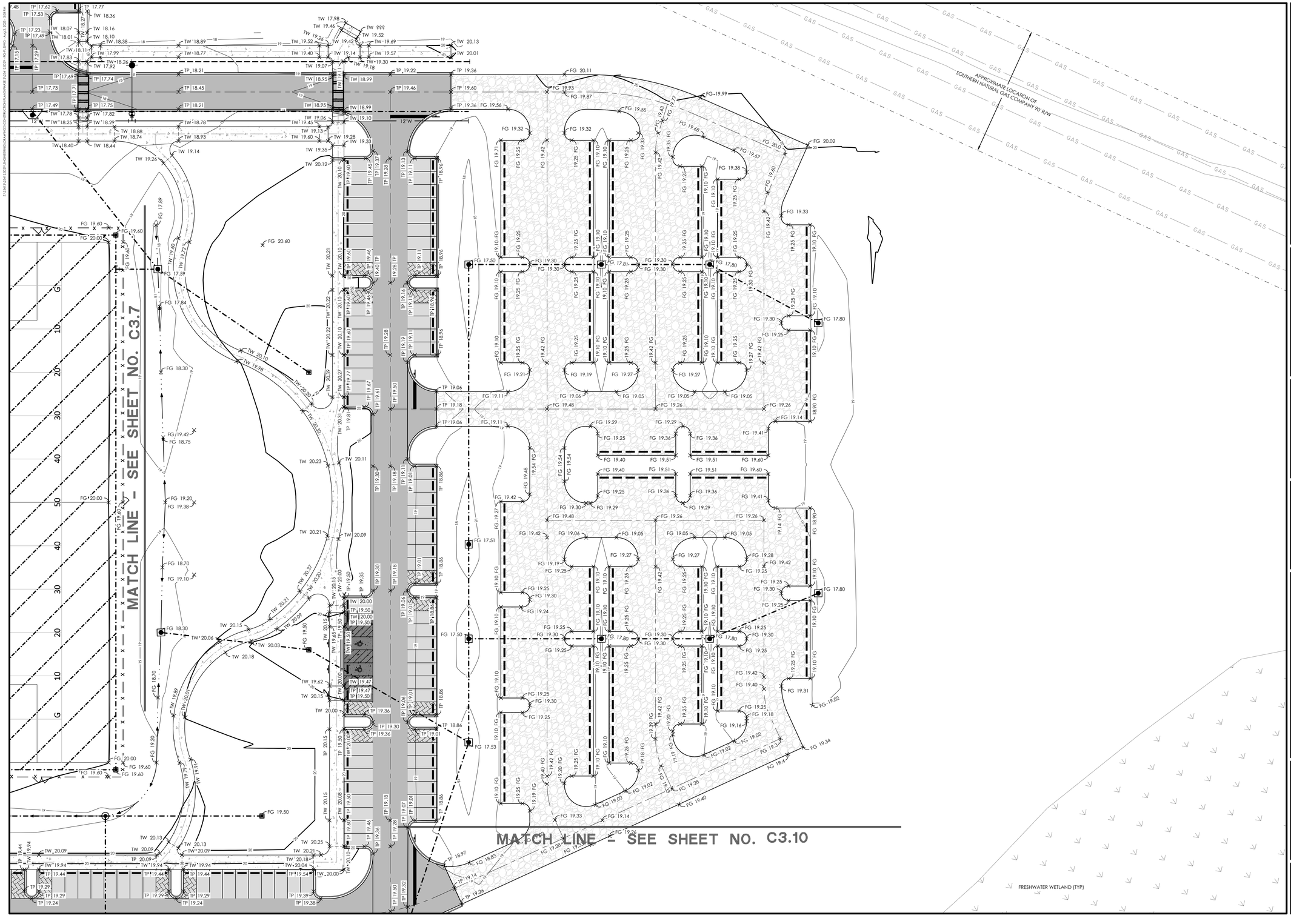
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.7



PAVEMENT LEGEND:

- LIGHT DUTY VEHICULAR ASPHALT (2" SURFACE COURSE, 6" GAB)
- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
- VEHICULAR CONCRETE (6" SLAB, 8" GAB)
- PEDESTRIAN CONCRETE
- PERVIOUS PAVERS
- 8" GRADED AGGREGATE BASE
- ADA TURNING SPACE

NOTES:

1. ASPHALT CONCRETE AND BASE COURSE MATERIALS SHOULD CONFORM TO GDOT MATERIAL SPECIFICATIONS.

** SECTION 815 FOR GRADED AGGREGATE
** SECTION 828 FOR HOT MIX ASPHALT CONCRETE MIXTURE.

2. REFERENCE GEOTECHNICAL ENGINEERING REPORT - PROPOSED NEW RECREATIONAL FACILITY - MONTEITH ROAD SITE | PORT WENTWORTH, GEORGIA, NOVEMBER 4, 2016 | GHD PROJECT REFERENCE NO. 1122323

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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PAVING & GRADING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.8

MATCH LINE - SEE SHEET NO. C3.7

MATCH LINE - SEE SHEET NO. C3.10

TIE TO EXISTING PAVEMENT. MATCH EXISTING PAVEMENT ELEVATIONS TO ENSURE SMOOTH TRANSITION.

TIE TO EXISTING PAVEMENT. MATCH EXISTING PAVEMENT ELEVATIONS TO ENSURE SMOOTH TRANSITION.

EXISTING POND 2
TOP: 19.0
NWL: 14.0
BOTTOM: 7.0
10-YEAR: 16.26
25-YEAR: 16.94
50-YEAR: 17.52
100-YEAR: 18.21

SEE 25412.0029 - PORT WENTWORTH RECREATIONAL COMPLEX PHASE 1C PLANS FOR OUTFALL

PAVEMENT LEGEND:

- LIGHT DUTY VEHICULAR ASPHALT (2" SURFACE COURSE, 6" GAB)
- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
- VEHICULAR CONCRETE (6" SLAB, 8" GAB)
- PEDESTRIAN CONCRETE
- PERVIOUS PAVERS
- 8" GRADED AGGREGATE BASE
- ADA TURNING SPACE

NOTES:

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   ** SECTION 828 FOR HOT MIX ASPHALT CONCRETE MIXTURE.
2. REFERENCE GEOTECHNICAL ENGINEERING REPORT - PROPOSED NEW RECREATIONAL FACILITY - MONTEITH ROAD SITE | PORT WENTWORTH, GEORGIA, NOVEMBER 4, 2016 | GHD PROJECT REFERENCE NO. 1122323

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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PAVING & GRADING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

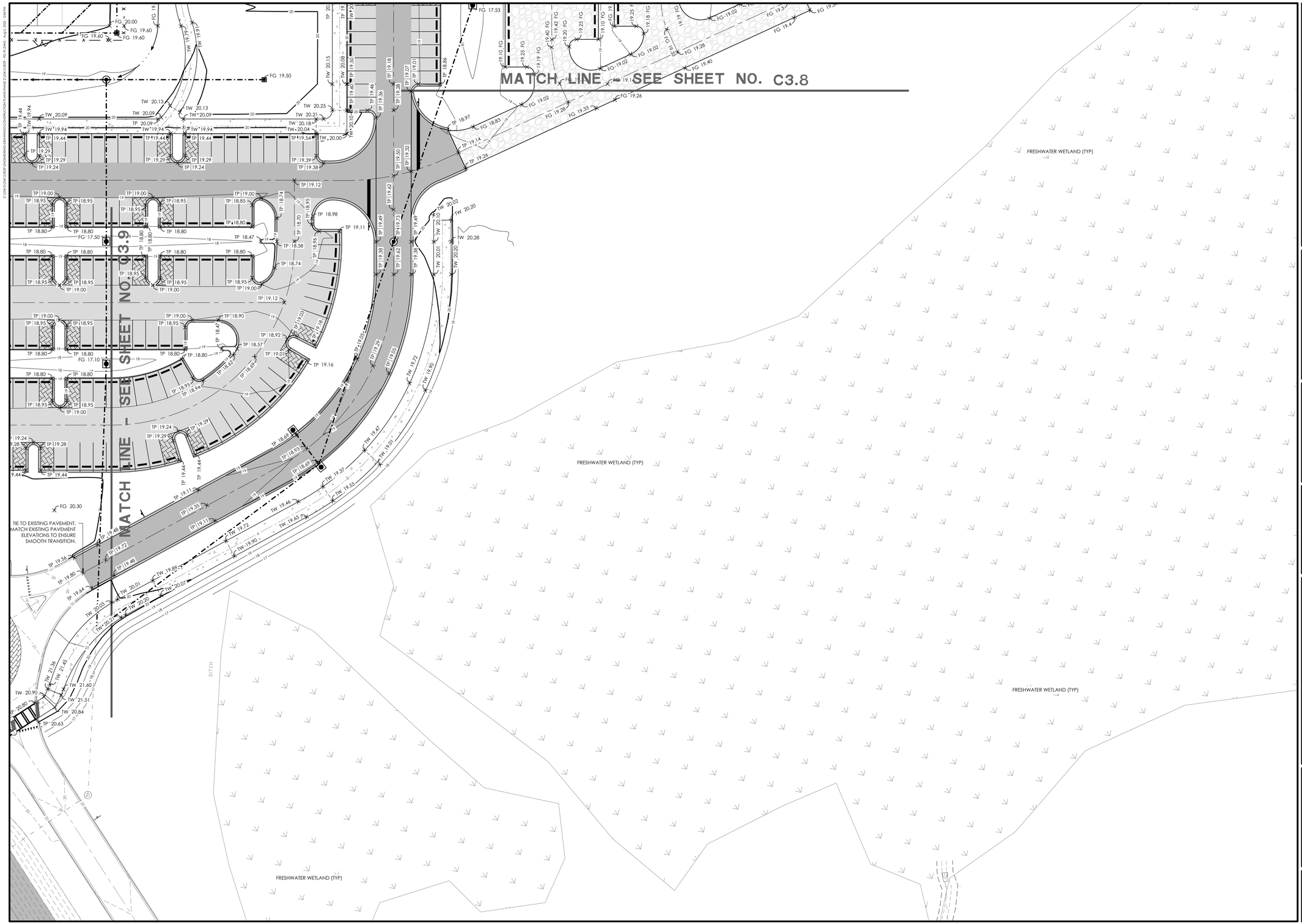
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1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.9

Z:\25412\active\0029\engineering\drawings\construction plans\phase 2\25412.0029 - PLAN.dwg - Aug 5, 2025 - 3:08 PM



PAVEMENT LEGEND:

- LIGHT DUTY VEHICULAR ASPHALT (2" SURFACE COURSE, 6" GAB)
- HEAVY DUTY VEHICULAR ASPHALT (1.5" SURFACE COURSE, 2" BINDER COURSE, 6" GAB)
- VEHICULAR CONCRETE (6" SLAB, 8" GAB)
- PEDESTRIAN CONCRETE
- PERVIOUS PAVERS
- 8" GRADED AGGREGATE BASE
- ADA TURNING SPACE

NOTES:

1. ASPHALT CONCRETE AND BASE COURSE MATERIALS SHOULD CONFORM TO GDOT MATERIAL SPECIFICATIONS.
   ** SECTION 815 FOR GRADED AGGREGATE
   ** SECTION 828 FOR HOT MIX ASPHALT CONCRETE MIXTURE.
2. REFERENCE GEOTECHNICAL ENGINEERING REPORT - PROPOSED NEW RECREATIONAL FACILITY - MONTEITH ROAD SITE | PORT WENTWORTH, GEORGIA, NOVEMBER 4, 2016 | GHD PROJECT REFERENCE NO. 1122323

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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PAVING & GRADING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

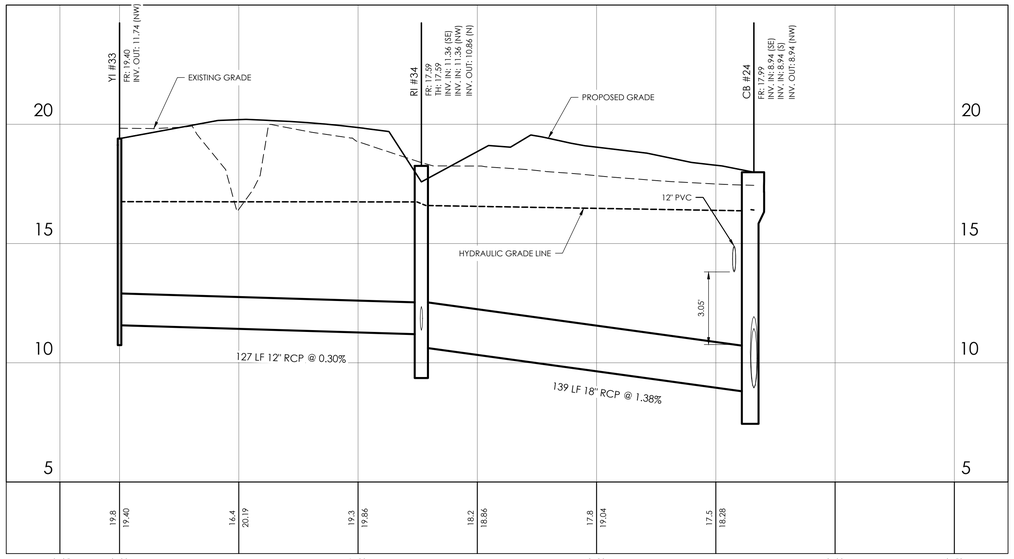
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

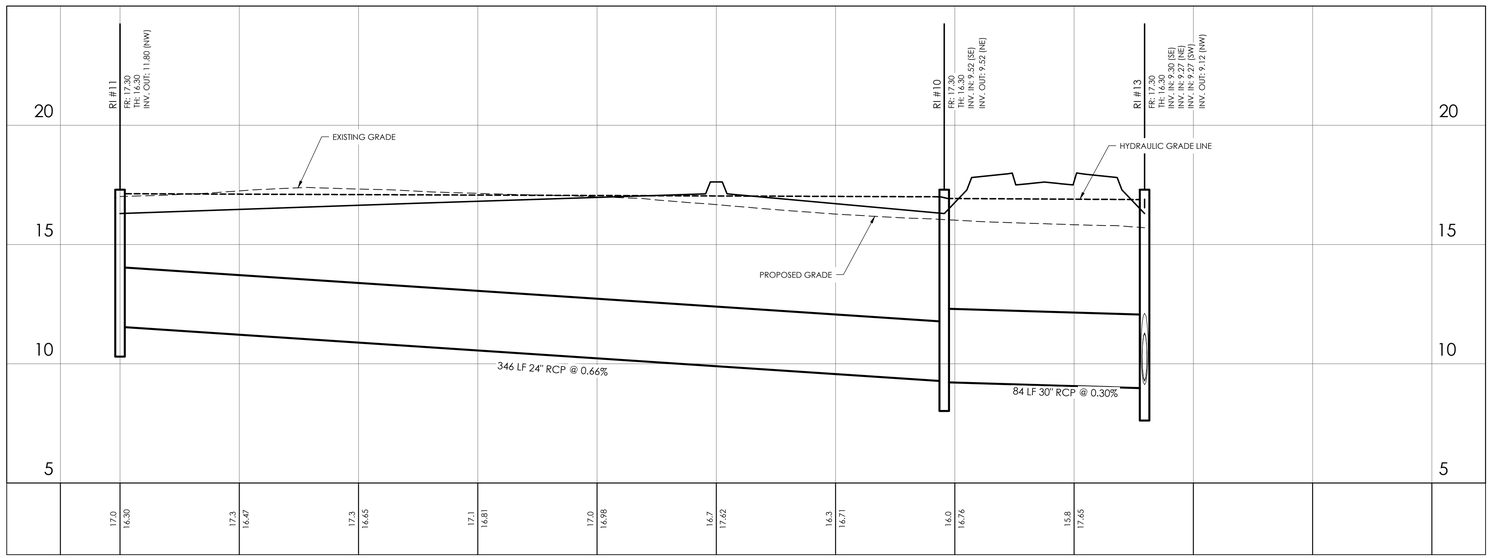
JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.10

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - DWG - Aug 5, 2025 - 3:46 PM



25412.0029 - Drainage (Phase 2) - Run 1
STATIONS: -0+25 - 3+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 2
STATIONS: -0+25 - 5+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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Savannah, GA 31405 • 912.234.5300
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

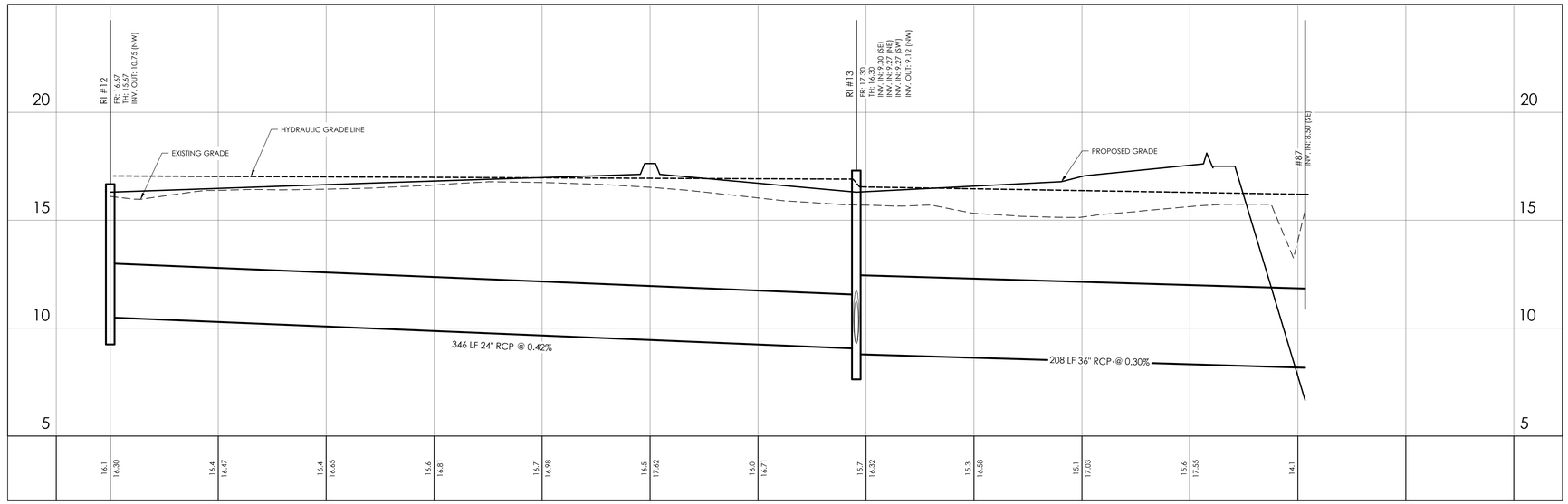
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

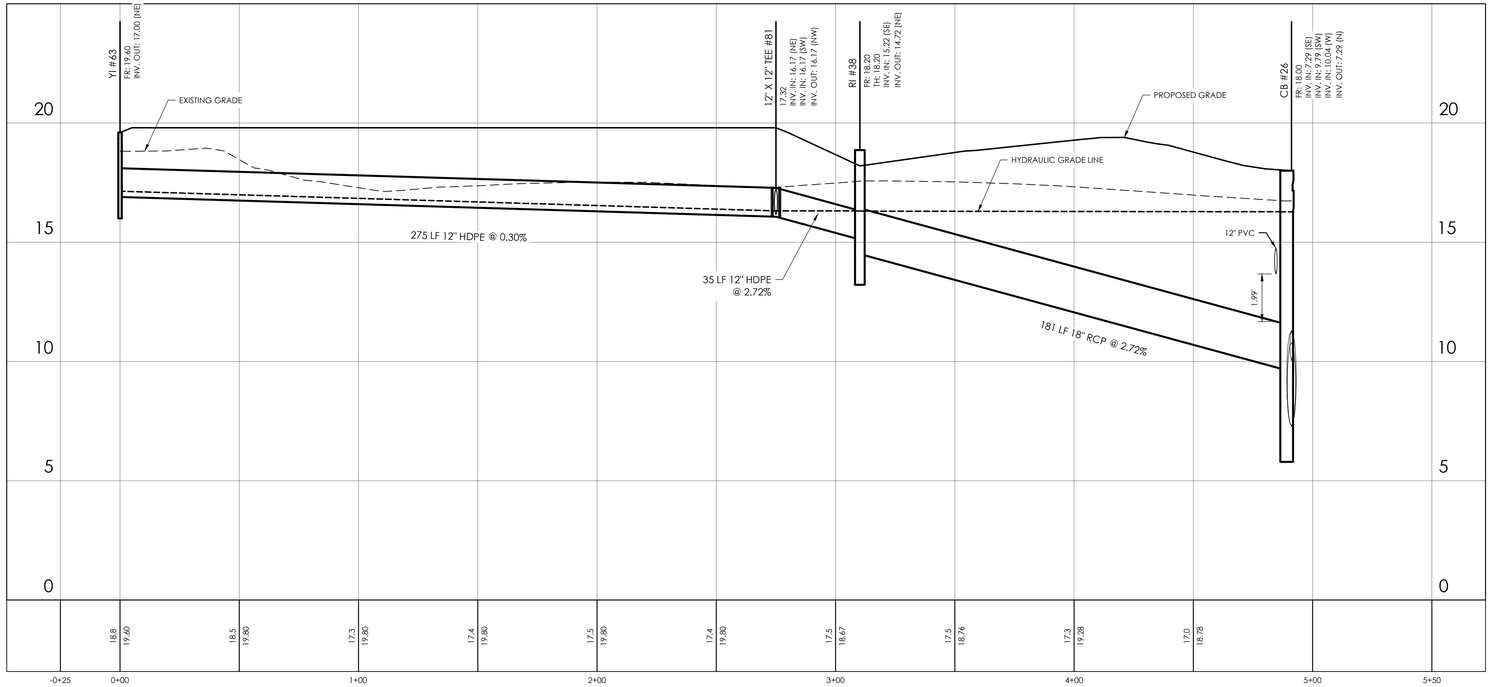
C3.11

Z:\25412\1264\2025\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - DWR (SWC - Aug 1, 2025 - 3:58 PM



25412.0029 - Drainage (Phase 2) - Run 3

STATIONS: -0+25 - 6+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 4

STATIONS: -0+25 - 5+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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Savannah, GA 31405 • 912.234.5300
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
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PORT WENTWORTH, GA 31407

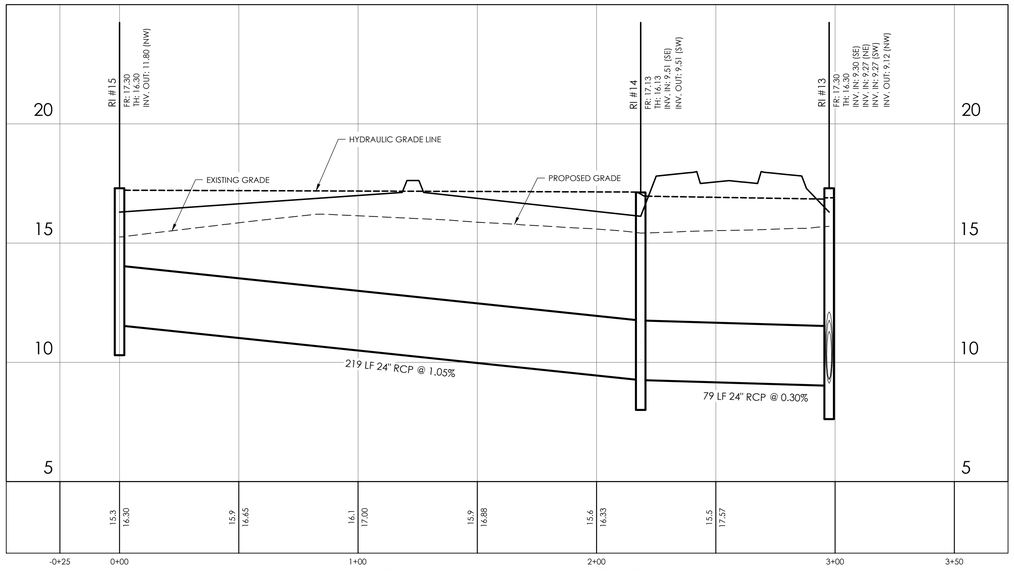
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

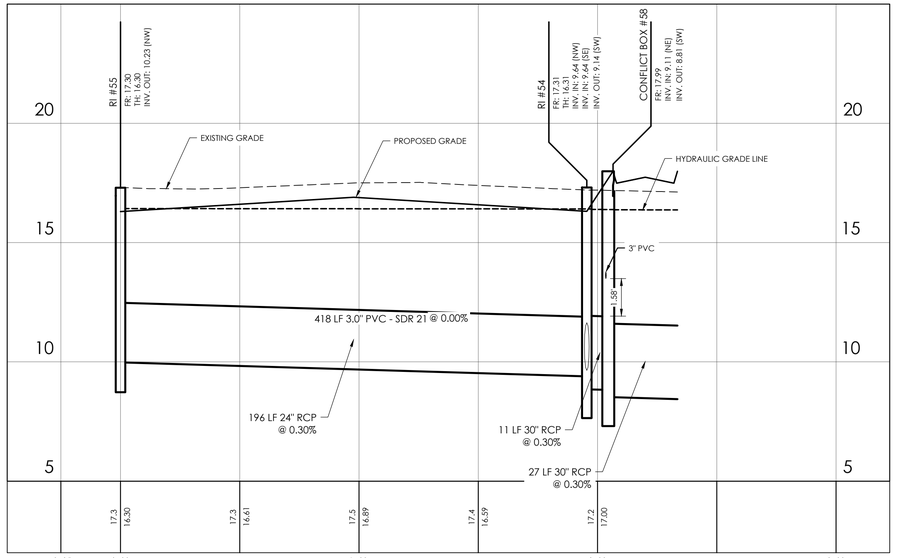
C3.12

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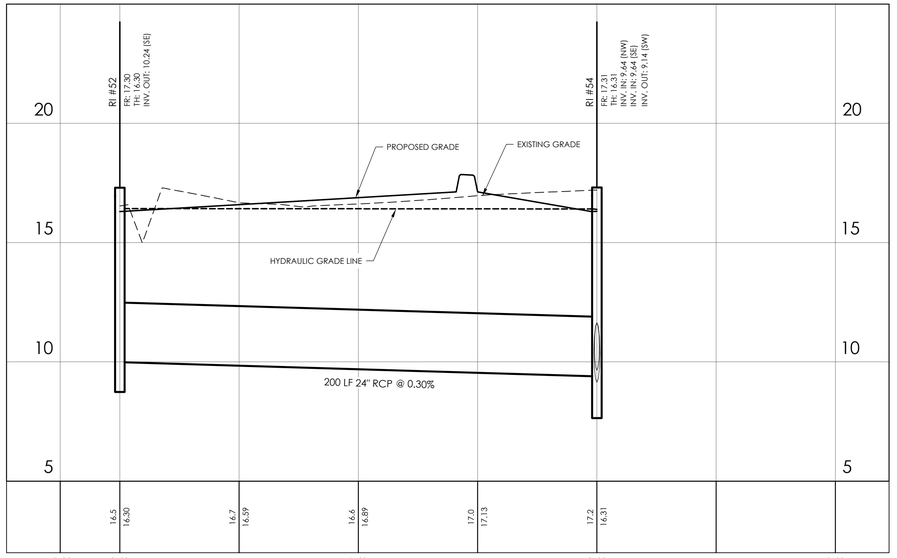
25412.0029 - Drainage (Phase 2) - Run 5

STATIONS: -0+25 - 3+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 6

STATIONS: -0+25 - 3+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 7

STATIONS: -0+25 - 3+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

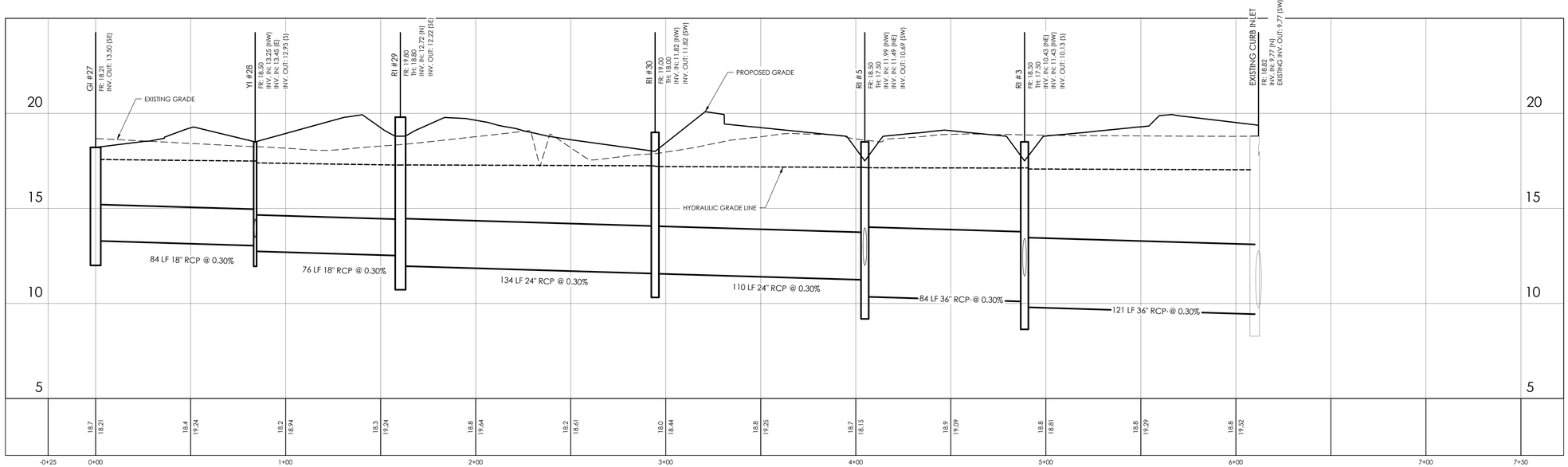
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

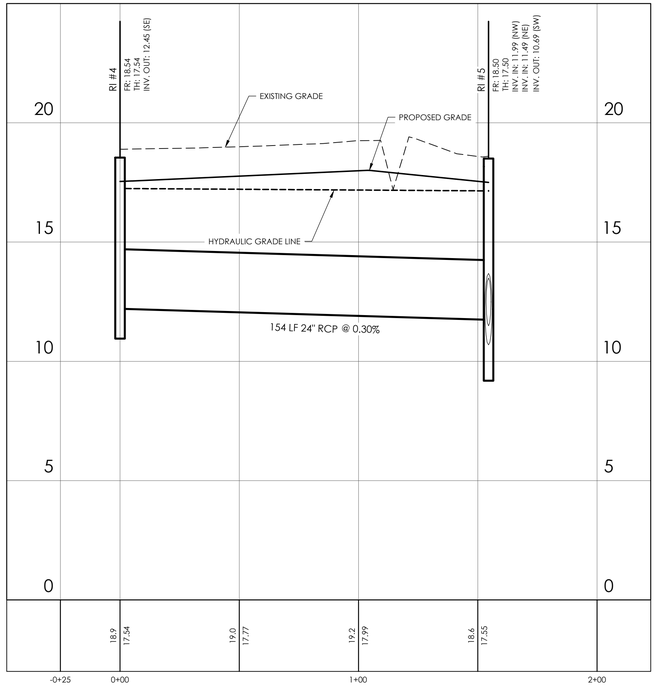
JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.13



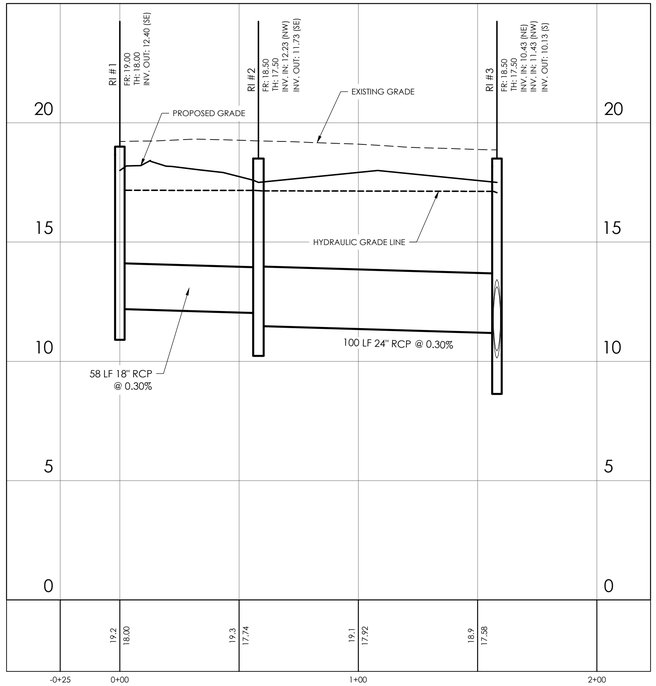
25412.0029 - Drainage (Phase 2) - Run 8

STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 9

STATIONS: -0+25 - 2+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 10

STATIONS: -0+25 - 2+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

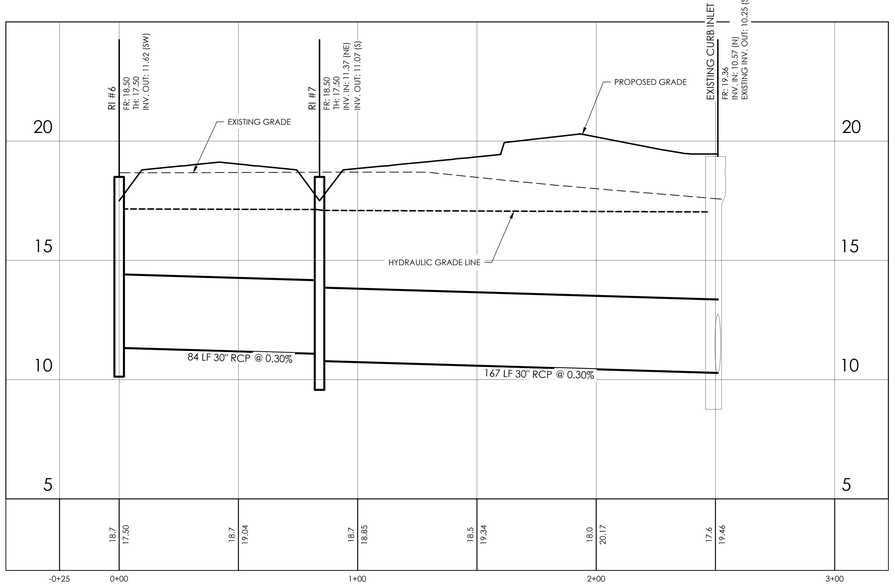
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.14

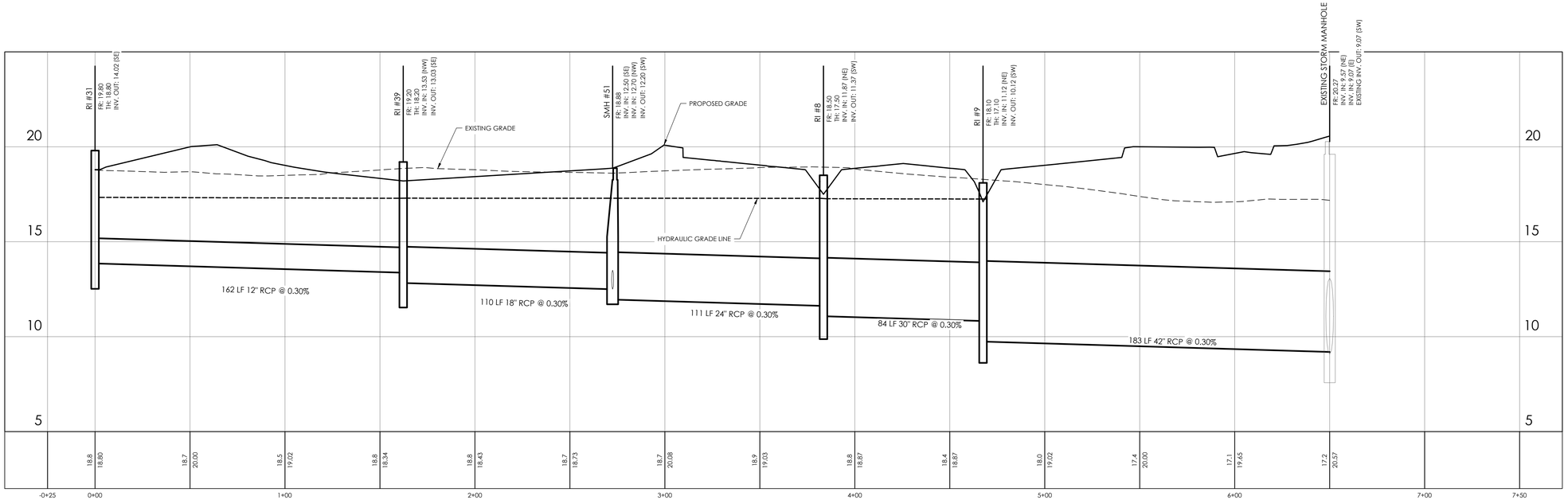
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Z:\25412\Civil\02 DESIGN\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - DRAIN (SWC - Aug 5, 2025 - 3:00 PM



25412.0029 - Drainage (Phase 2) - Run 11

STATIONS: -0+25 - 3+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 12

STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

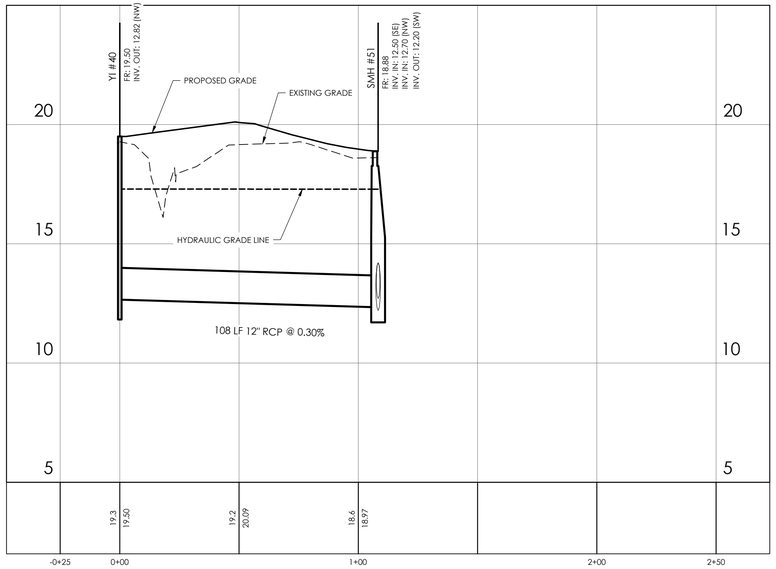
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.15

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25412.0029 - Drainage (Phase 2) - Run 13

STATIONS: -0+25 - 2+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

25412.0029 - Drainage (Phase 2) - Run 14

STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

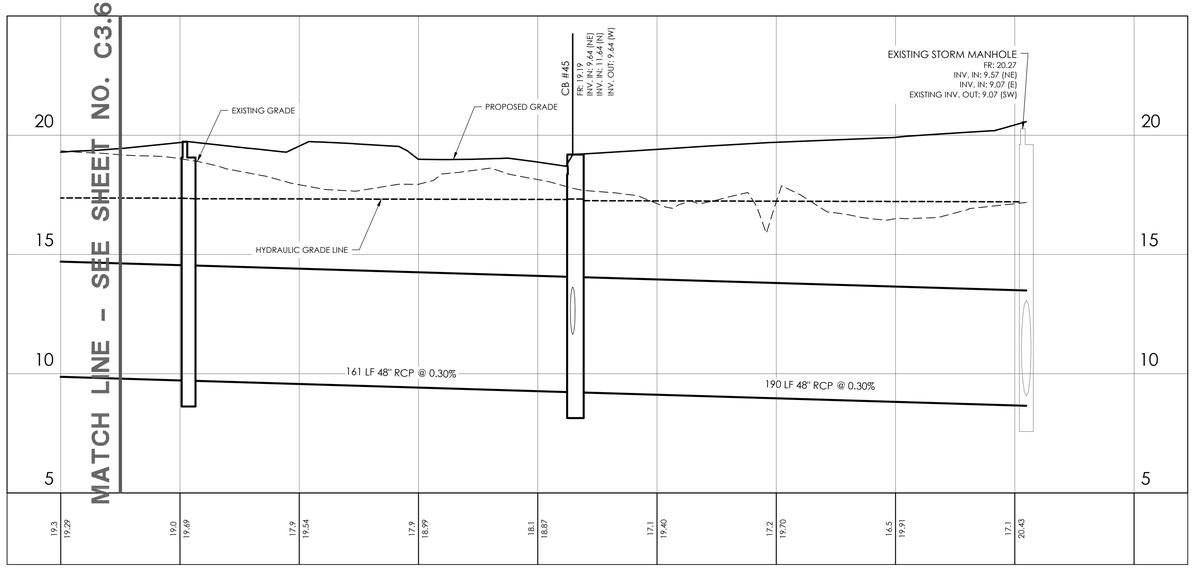
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.16

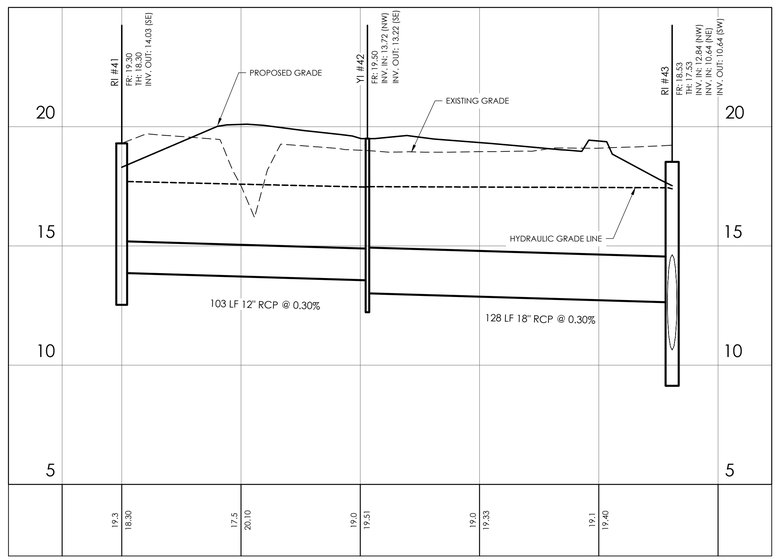
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MATCH LINE - SEE SHEET NO. C3.6



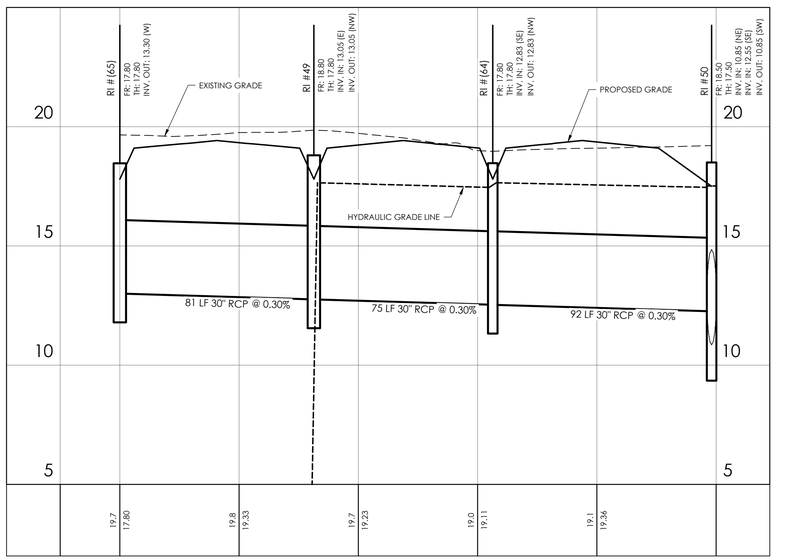
25412.0029 - Drainage (Phase 2) - Run 14

STATIONS: 7+00 - 11+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 15

STATIONS: -0+25 - 2+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 16

STATIONS: -0+25 - 2+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

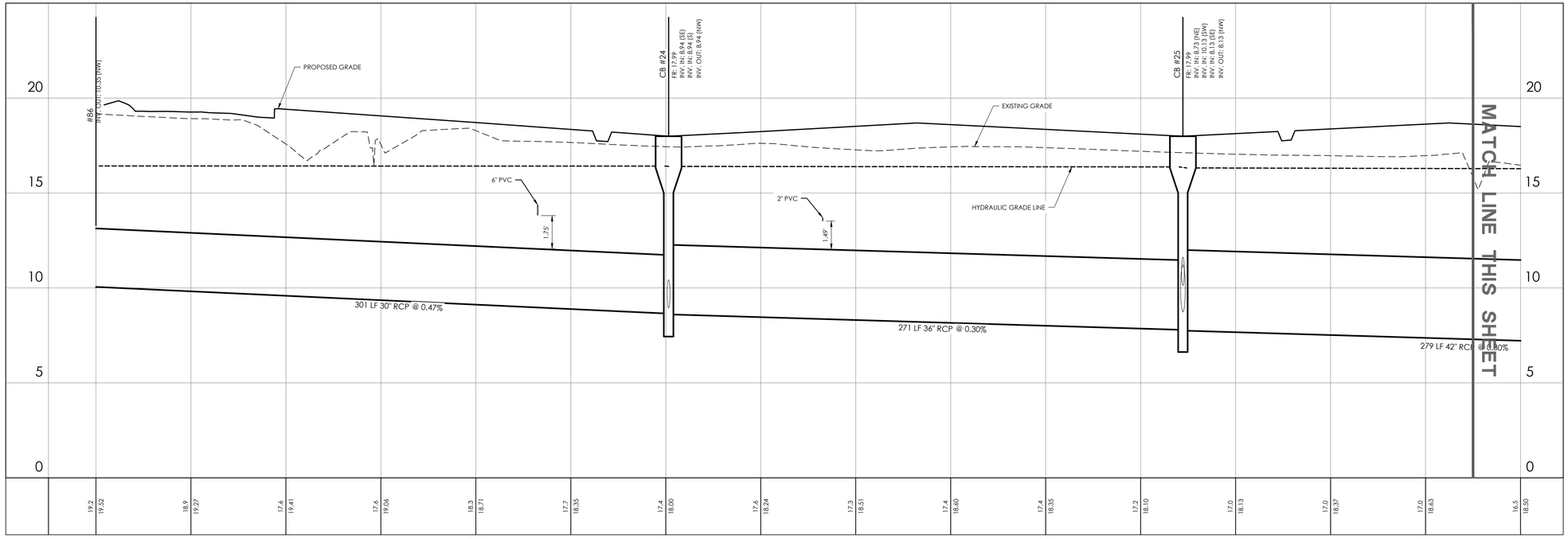
GRAPHIC SCALE:
30 0 15 30
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

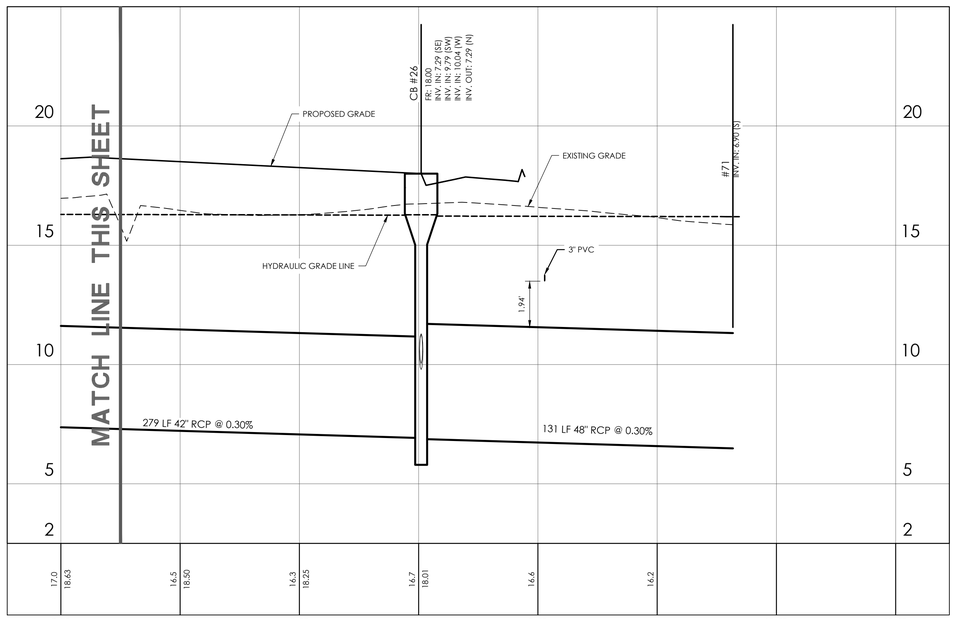
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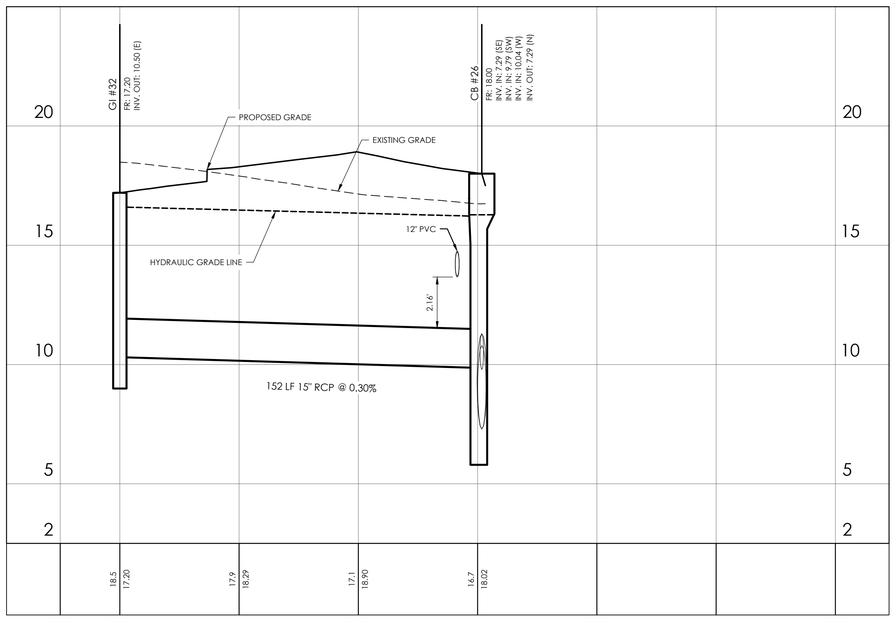
25412.0029 - Drainage (Phase 2) - Run 17

STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 17

STATIONS: 7+00 - 10+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 18

STATIONS: -0+25 - 3+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

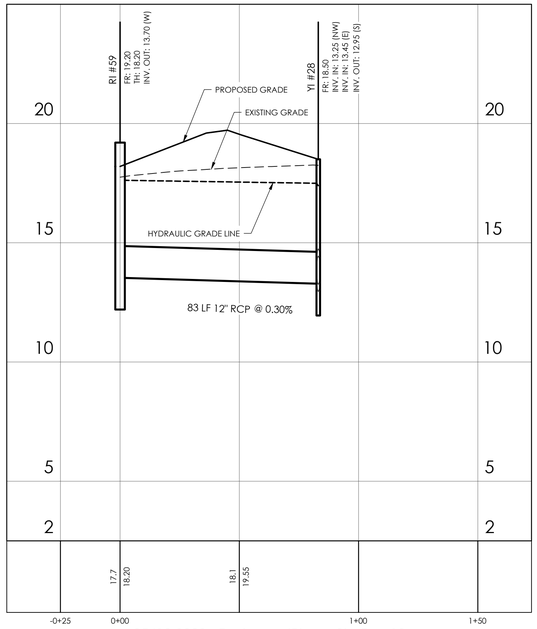
GRAPHIC SCALE:
1 INCH = 30 FEET
30 0 15 30

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

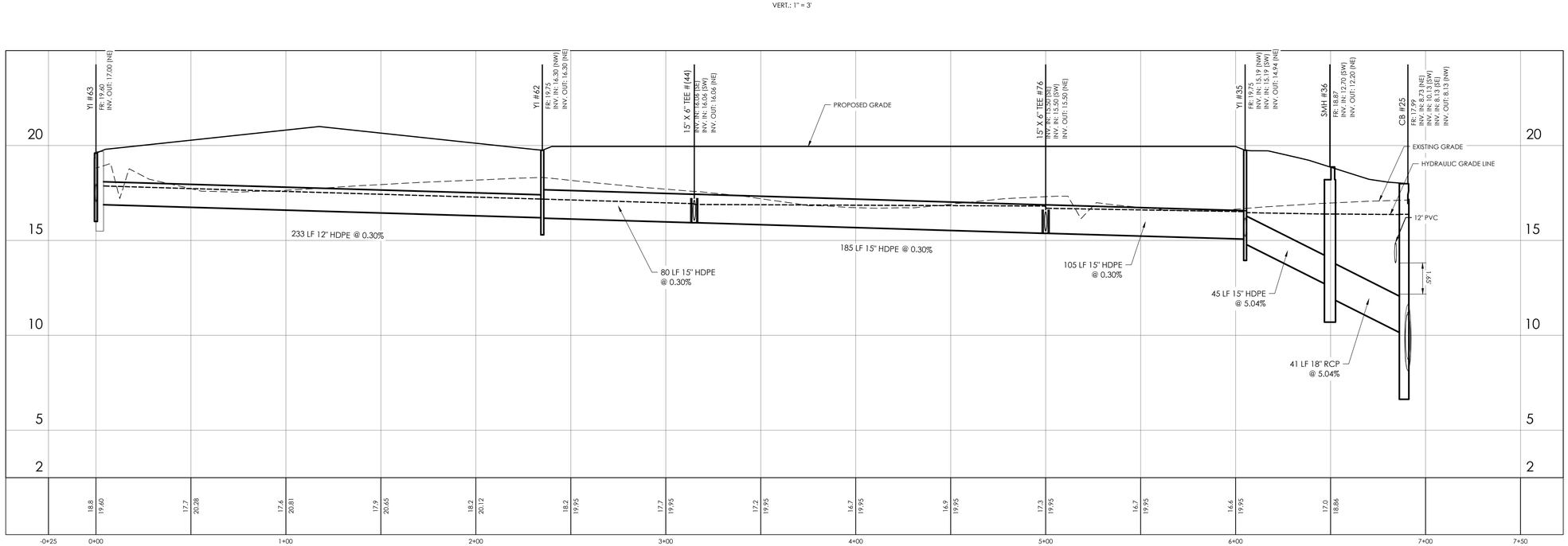
C3.18

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25412.0029 - Drainage (Phase 2) - Run 19

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 20

STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

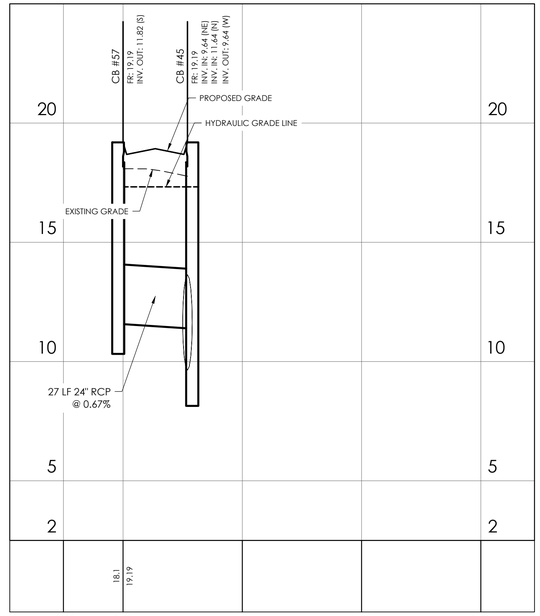
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
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APPROVED:	KMS
SCALE:	1" = 30'

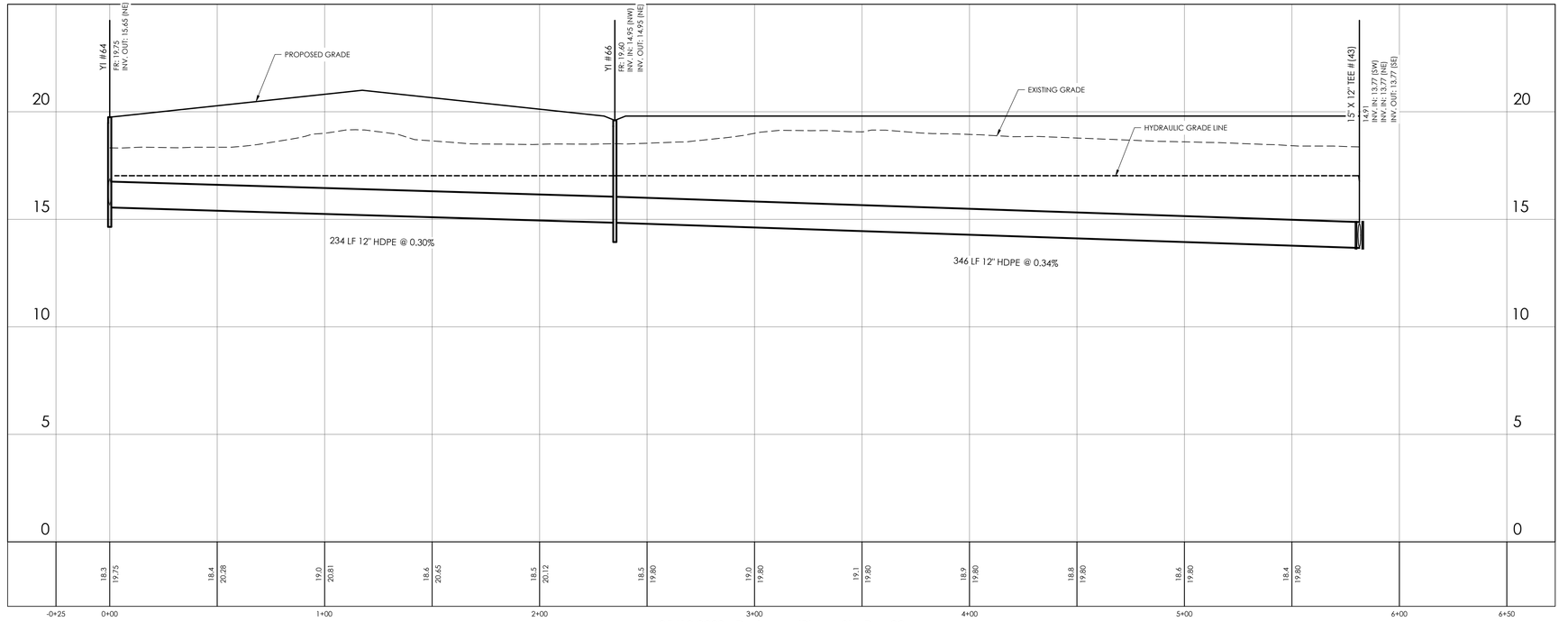
C3.19

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25412.0029 - Drainage (Phase 2) - Run 21

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 22

STATIONS: -0+25 - 6+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

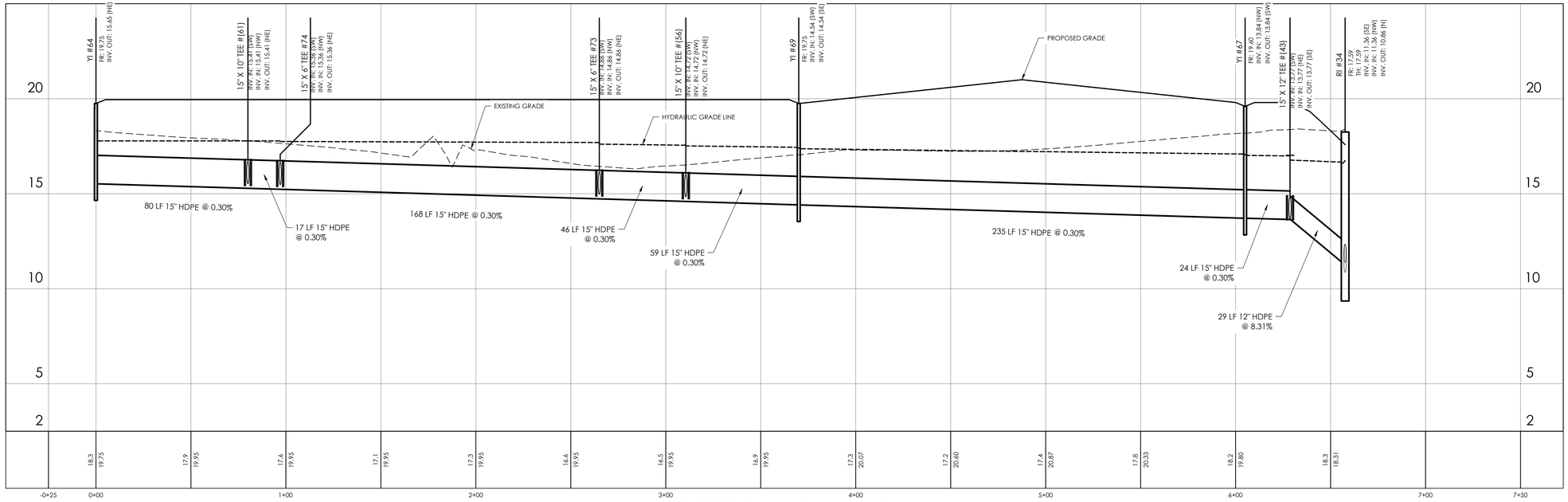
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

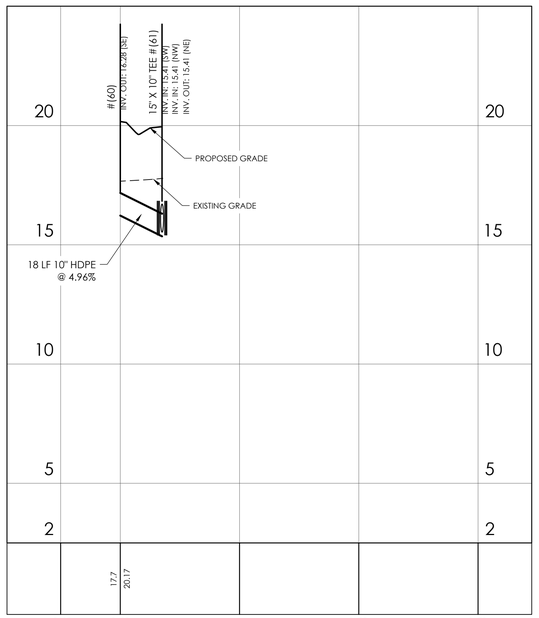
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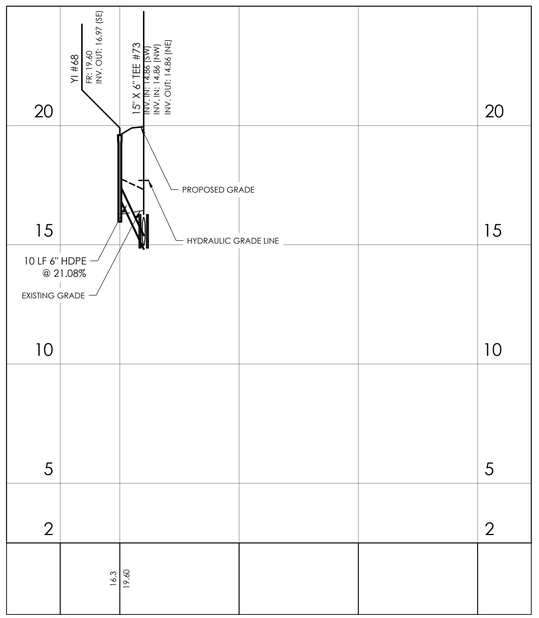
25412.0029 - Drainage (Phase 2) - Run 23

STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 24

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 25

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

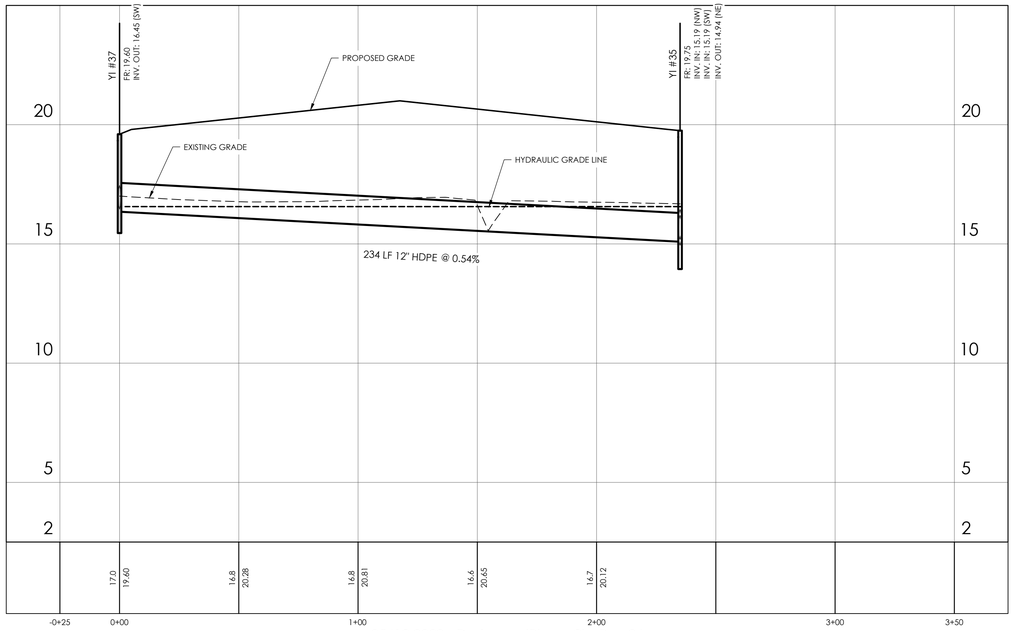
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

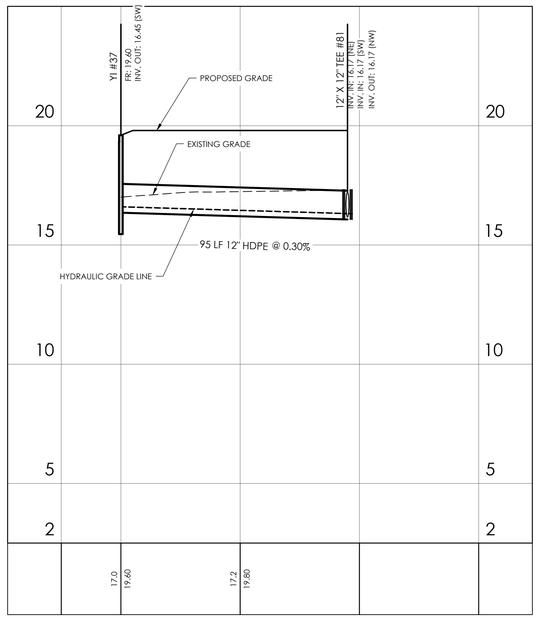
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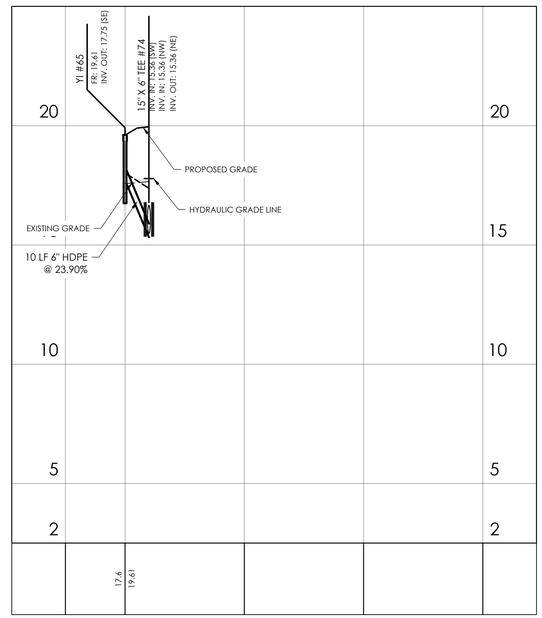
25412.0029 - Drainage (Phase 2) - Run 26

STATIONS: -0+25 - 3+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



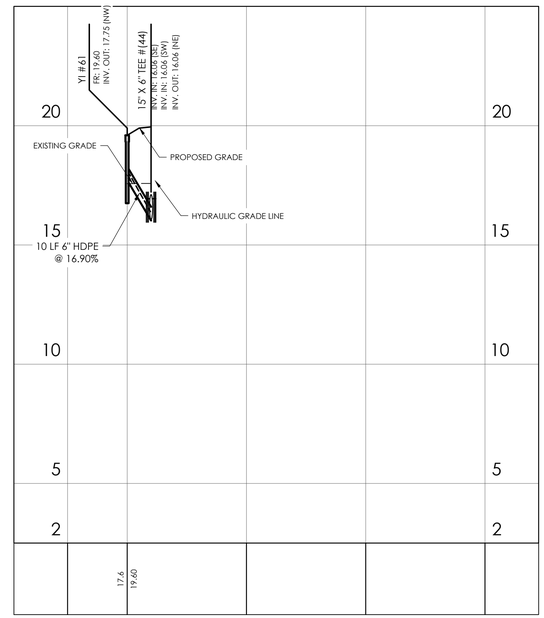
25412.0029 - Drainage (Phase 2) - Run 27

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 28

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 29

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

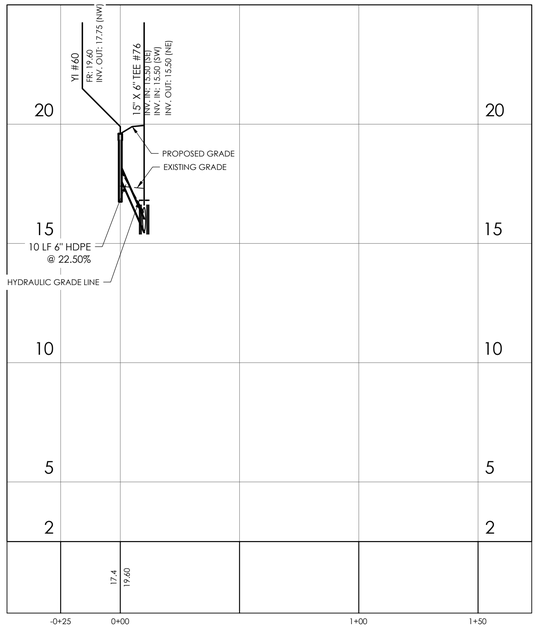
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GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

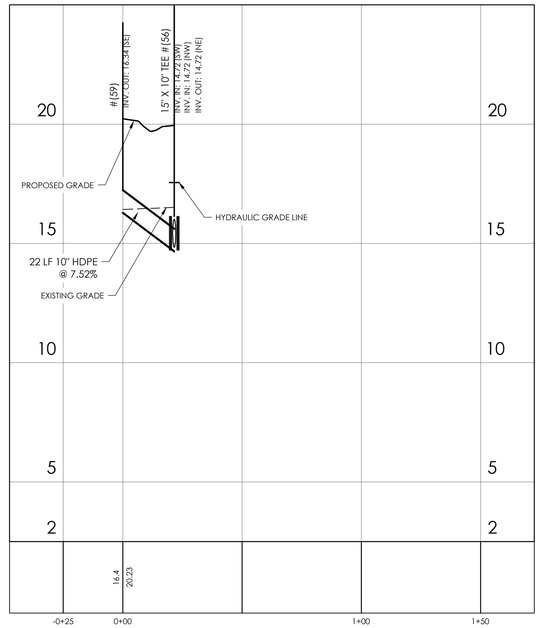
C3.22

Z:\25412\04 DESIGN\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - DRAIN.DWG - Aug 5, 2025 - 3:06 PM



25412.0029 - Drainage (Phase 2) - Run 30

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



25412.0029 - Drainage (Phase 2) - Run 31

STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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DRAINAGE PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

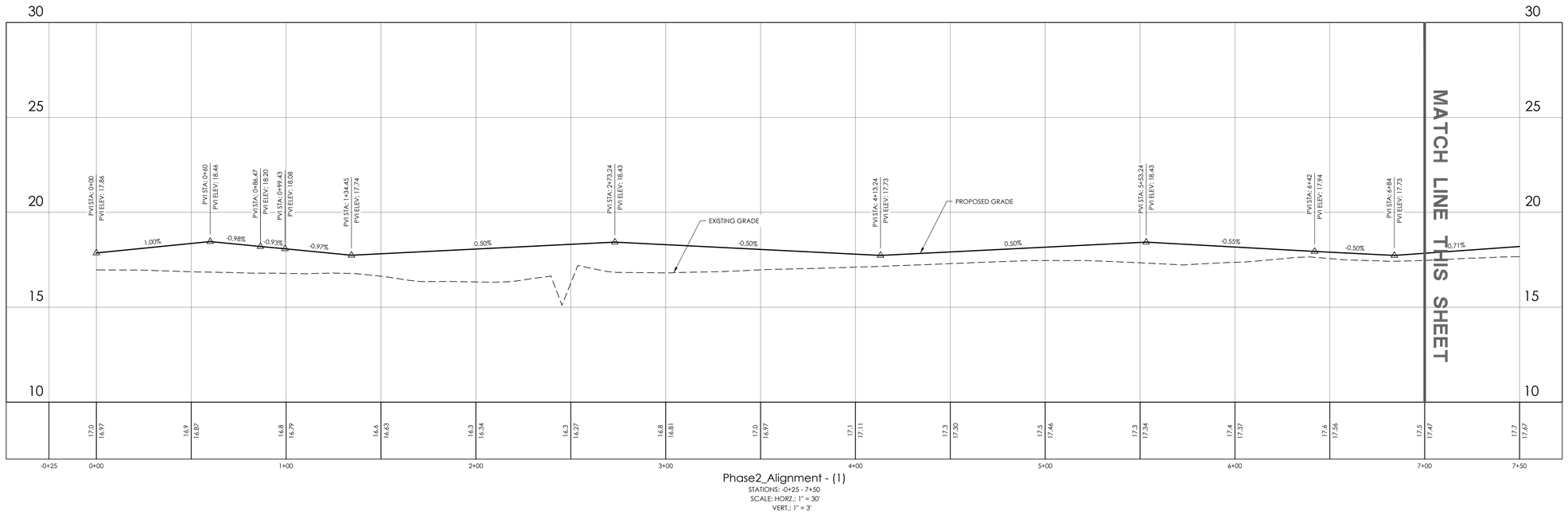
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1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

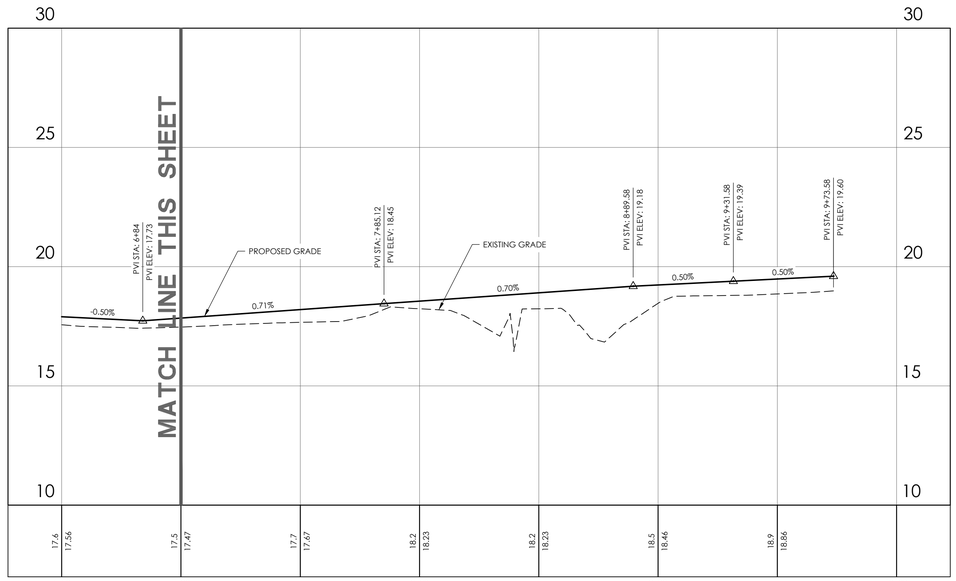
JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.13

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Phase2_Alignment - (1)
STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



Phase2_Alignment - (1)
STATIONS: 6+50 - 10+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ROAD PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

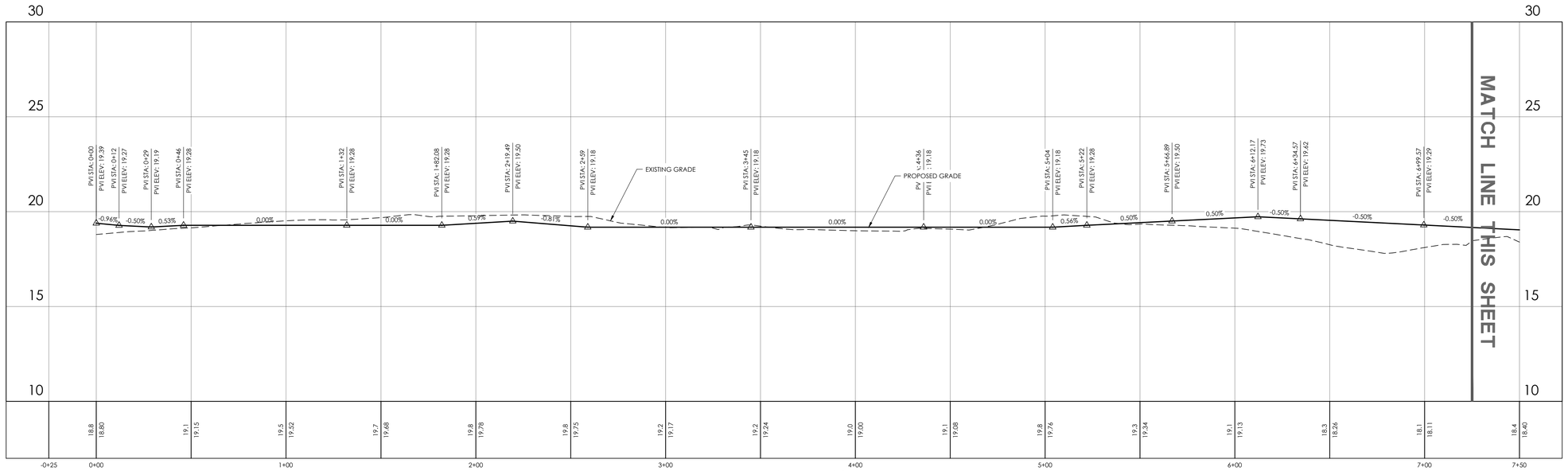
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

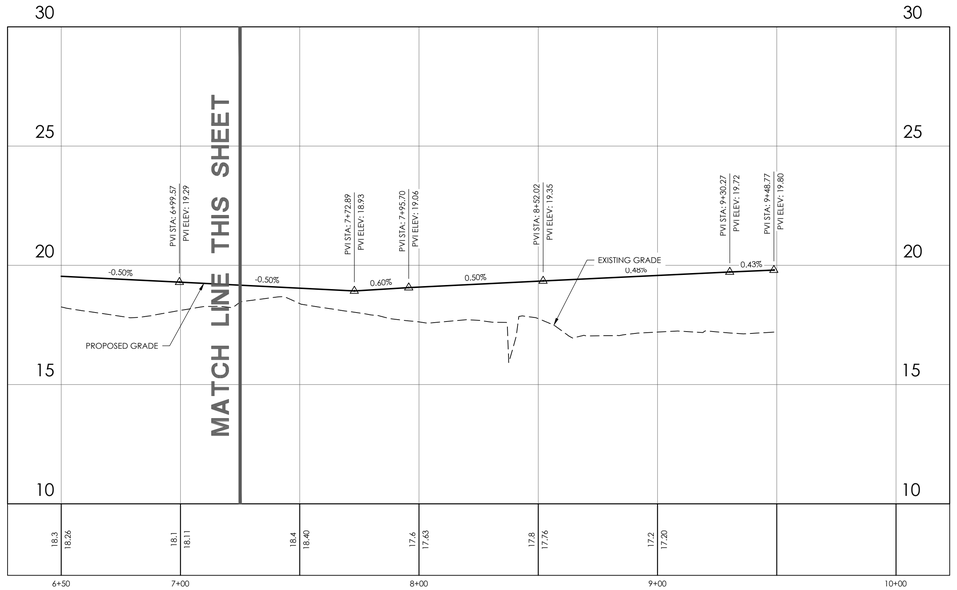
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.24



Phase2_Alignment - (2)
STATIONS: -0+25 - 7+50
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'



Phase2_Alignment - (2)
STATIONS: 6+50 - 10+00
SCALE: HORZ.: 1" = 30'
VERT.: 1" = 3'

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ROAD PROFILES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

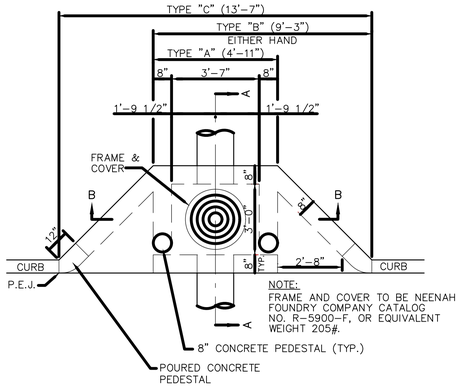
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1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

C3.25

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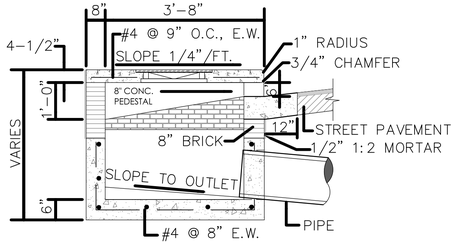
PLAN OF CURB INLET

City of Port Wentworth
TECHNICAL DETAILS

SD-1

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007



NOTES:
1. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4"
2. PIPE TIEING TO CURB INLET MUST BE SEALED INSIDE AND OUTSIDE OF STRUCTURE WITH BRICK AND MORTAR

CURB INLET SECTION A - A

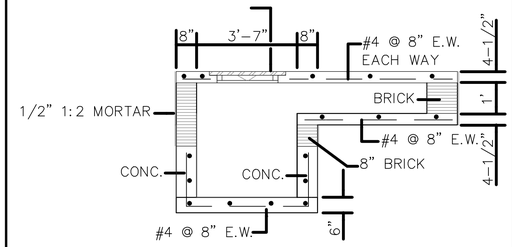
City of Port Wentworth
TECHNICAL DETAILS

SD-3

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007

NOTE:
C.I. MANHOLE FRAME AND COVER EQUIVALENT TO NEENAH R-5900-F. FRAME AND COVER TO BE MACHINE FITTED PRIOR TO LEAVING SHOP. WEIGHT - 205 LBS.



NOTES:
1. MATCH TOP OF PIPE ELEVATIONS WHEN DIFFERENT SIZE PIPES ARE CONSTRUCTED IN CURB INLET.
2. TYPE "B" INLET SHOWN

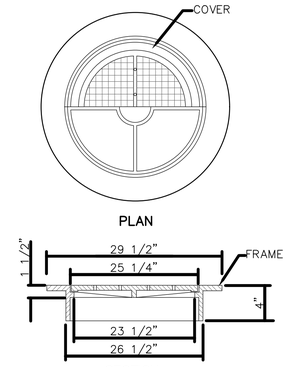
CURB INLET SECTION B - B

City of Port Wentworth
TECHNICAL DETAILS

SD-4

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007



NOTES:
1. FRAME AND COVER TO BE NEENAH FOUNDRY COMPANY CATALOG NO. R-5900-F OR EQUIVALENT WEIGHT 205#.
2. COVER MUST HAVE FOUNDRY STAMP SHOWING THE UTILITY (DRAINAGE).

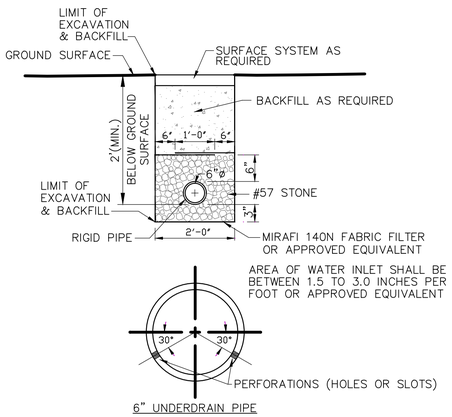
INLET FRAME & COVER

City of Port Wentworth
TECHNICAL DETAILS

SD-5

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007



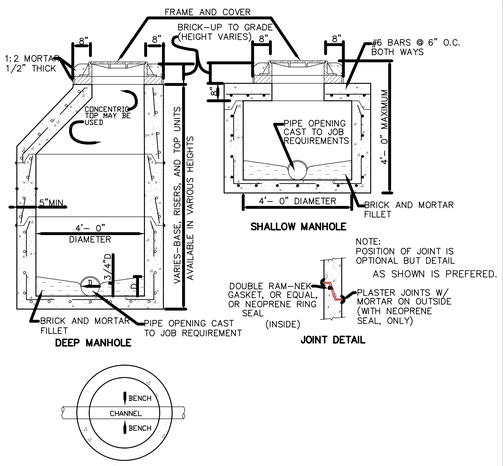
6" UNDERDRAIN PIPE

City of Port Wentworth
TECHNICAL DETAILS

SD-10

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007



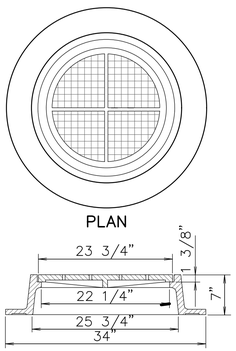
PRECAST STORM MANHOLE

City of Port Wentworth
TECHNICAL DETAILS

SD-12

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007



NOTE:

MANHOLE RIM & COVER SIMILAR TO NEENAH FOUNDRY CO. R-1412-A4. TOTAL WEIGHT 310#. TYPE "C" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED "STORM",

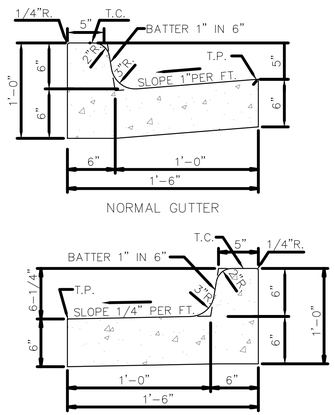
STORM MANHOLE RING & COVER

City of Port Wentworth
TECHNICAL DETAILS

SD-14

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007



NOTE: COMPACT SUBGRADE TO 98% (ASTM D698-00ael)

18" CURB & GUTTER

City of Port Wentworth
TECHNICAL DETAILS

P-3

PREPARED BY STEVENSON & PALMER ENGINEERING, INC.

SCALE: N.T.S.
DATED: FEBRUARY 2007

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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Savannah, GA 31405 • 912.234.5300
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PAVING, GRADING & DRAINAGE DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

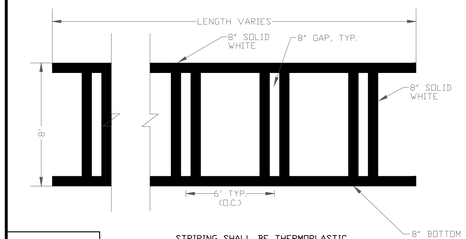
JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

C3.26

BID SET - NOT FOR CONSTRUCTION

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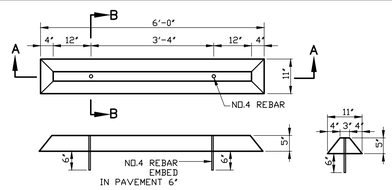


STRIPING SHALL BE THERMOPLASTIC.

CROSSWALK STRIPING DETAIL

NOT TO SCALE

T9
OCT. 2008
THOMAS & HUTTON ENGINEERING CO.



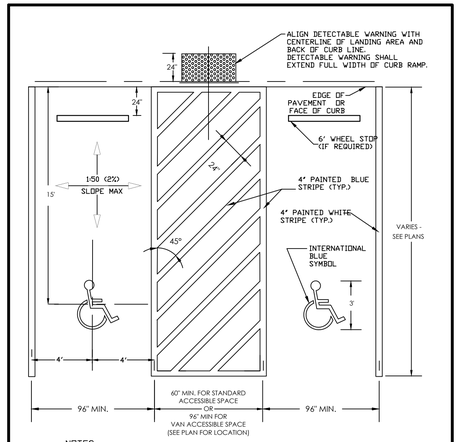
SECTION A—A

SECTION B—B

CONCRETE WHEEL STOP DETAIL

NOT TO SCALE

P27
OCT. 2008
THOMAS & HUTTON ENGINEERING CO.



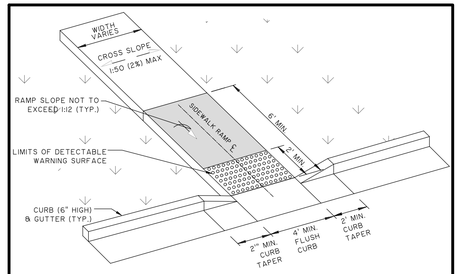
NOTES:

1. STRIPING SHALL BE THERMOPLASTIC.
2. STRIPING AND CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS.
3. 2% MAXIMUM SLOPE IN ALL DIRECTIONS WITHIN ACCESSIBLE PARKING SPACE AND ACCESS AISLE.
4. ONE IN EVERY 8 ACCESSIBLE SPACES SHALL BE SERVED BY AN 8' WIDE ACCESS AISLE AND SHALL BE DESIGNATED "VAN ACCESSIBLE".

ACCESSIBLE PARKING SPACE STRIPING DETAIL

NOT TO SCALE

A3.1
FEB. 2009
THOMAS & HUTTON ENGINEERING CO.



ISOMETRIC VIEW OF RAMP

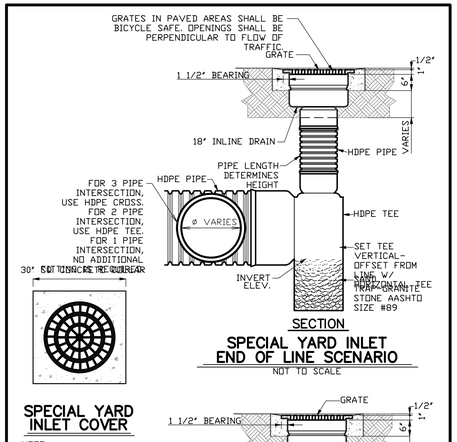
NOTES:

1. CONSTRUCTION OF ACCESSIBLE CURB RAMP SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
2. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20 (5%)
3. CURB RAMP SHALL HAVE A DETECTABLE WARNING THAT EXTENDS THE FULL WIDTH OF CURB RAMP. SEE DETECTABLE WARNING DETAIL.
4. LONGITUDINAL SLOPE OF SIDEWALK TO BE NO GREATER THAN 1:20 (5%).

CURB RAMP "TYPE D" W/ PERPENDICULAR SIDEWALK

NOT TO SCALE

A1.3
NOV. 2022
THOMAS & HUTTON ENGINEERING CO.



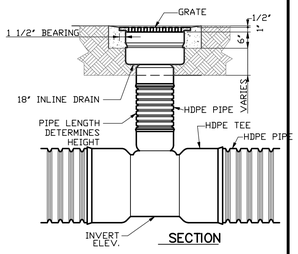
SECTION

SPECIAL YARD INLET END OF LINE SCENARIO

NOT TO SCALE

SPECIAL YARD INLET COVER

NOTE:
USE SOLID LID FOR SPECIAL MANHOLE

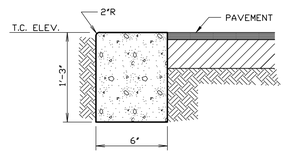


SECTION

SPECIAL YARD INLET

NOT TO SCALE

D20
JUNE 2018
THOMAS & HUTTON ENGINEERING CO.



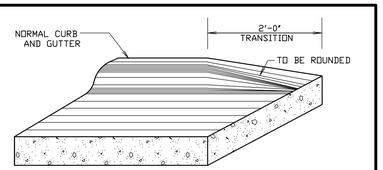
NOTES:

1. ALL CONCRETE SHALL BE 3,000 PSI.
2. PROVIDE CONTROL JOINTS EVERY TEN FEET (10').
3. PROVIDE EXPANSION JOINTS EVERY FIFTY FEET (50).
4. PROVIDE EXPANSION JOINT WHERE CURB ABUTS SIDEWALKS, OR OTHER STRUCTURES.
5. PROVIDE LIGHT BROOM FINISH.

FLUSH HEADER CURB

NOT TO SCALE

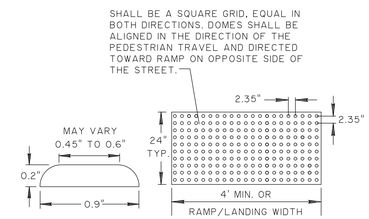
P24
OCT. 2008
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FEATHERING OF CURB AND GUTTER DETAIL

NOT TO SCALE

P22
OCT. 2008
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ELEVATION PLAN VIEW

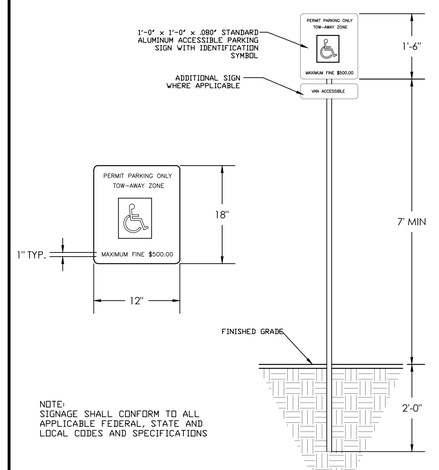
NOTE:

1. DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. IF THE SIDEWALK AND RAMP ARE CONSTRUCTED OF CONCRETE, THE WARNING AREA SHALL BE RED BRICK IN COLOR. IF THE SIDEWALK AND RAMP ARE CONSTRUCTED OF RED BRICK, THE WARNING AREA SHALL BE GRAY IN COLOR. THE COLOR USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
2. BRICK PAVERS SHALL BE SET IN A WET MORTAR BED ON A 4" MIN. THICK CONCRETE FOUNDATION.

DETECTABLE WARNING DETAIL

NOT TO SCALE

A2.1
FEB. 2009
THOMAS & HUTTON ENGINEERING CO.

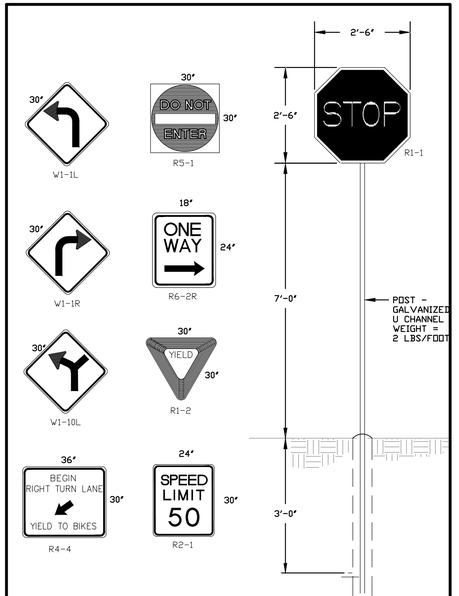


NOTE:
SIGNAGE SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS

ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE

A4.1
FEB. 2009
THOMAS & HUTTON ENGINEERING CO.



ROAD SIGN DETAILS

NOT TO SCALE

T4
OCT. 2008
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PAVING, GRADING & DRAINAGE DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

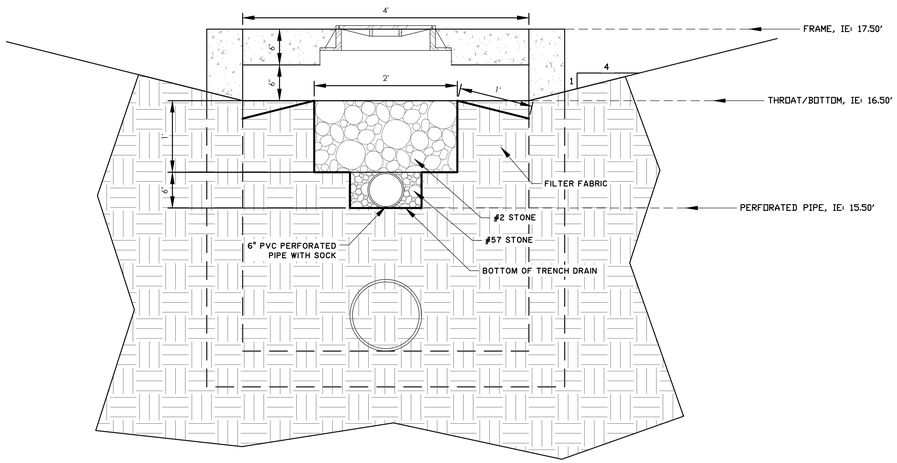
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

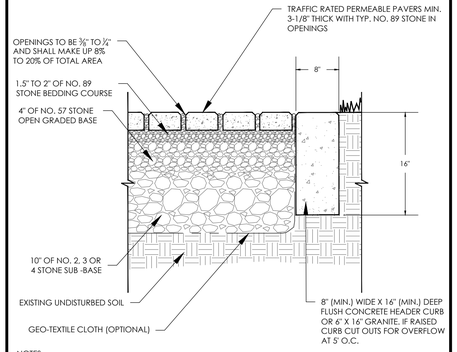
C3.27

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BIO-RETENTION AREA DETAIL

NOT TO SCALE

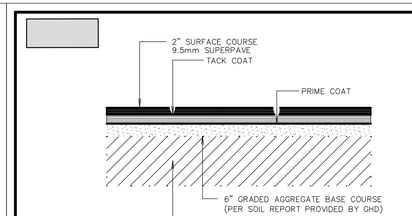


NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CITY OF SAVANNAH DEVELOPMENT GUIDELINES, TECHNICAL SPECIFICATIONS AND STANDARD DETAILS.
2. CONCRETE IN THE ROADWAY TO BE 5000PSI PER SECTION 03300, CHAPTER 3.2 AND REINFORCED WITH FIBERMESH OR STEEL PER SECTION 3300, CHAPTER 5 OF CITY TECHNICAL SPECIFICATIONS.
3. CONCRETE HEADER CURB DIMENSIONS MAY DIFFER BASED ON PROJECT SPECIFIC DESIGN REQUIREMENTS.
4. BASE COMPACTION UNDER CURB TO BE 98% (ASTM D698).
5. CONTRACTION JOINTS TO BE SAW CUT NO LATER THAN 24 HOURS AFTER THE POUR.
6. ALL NEW CONCRETE IN THE HISTORIC DISTRICT AND AS OTHERWISE SPECIFIED BY THE STREET MAINTENANCE DIRECTOR MUST BE TINTED. THE TINT SHALL BE LAMBERT CORPORATION SAVANNAH BROWN' #4658 OR EQUAL TO BE SUPPLIED BY THE CONTRACTOR.

PERMEABLE PARKING PAVER SECTION

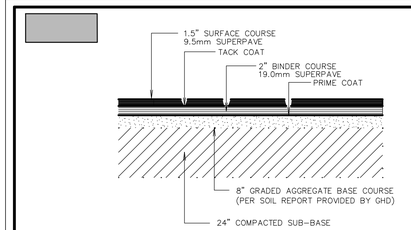
NOT TO SCALE



NOTE: CONTRACTOR TO VERIFY FINAL SECTION BASED UPON SOIL REPORT PREPARED BY GHD, DATED NOVEMBER 4, 2016, PRIOR TO INSTALLATION OR ORDERING OF MATERIALS.

LIGHT DUTY ASPHALT PAVEMENT

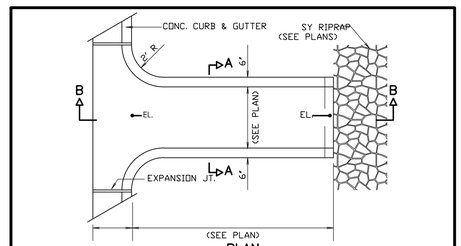
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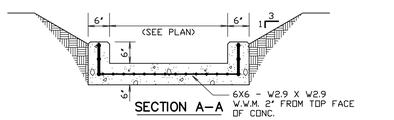
NOTE: CONTRACTOR TO VERIFY FINAL SECTION BASED UPON SOIL REPORT PREPARED BY GHD, DATED NOVEMBER 4, 2016, PRIOR TO INSTALLATION OR ORDERING OF MATERIALS.

HEAVY DUTY ASPHALT PAVEMENT

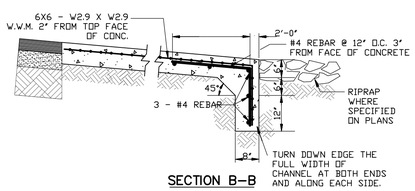
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PLAN



SECTION A-A

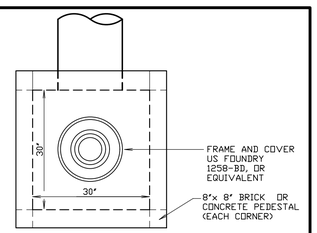


SECTION B-B

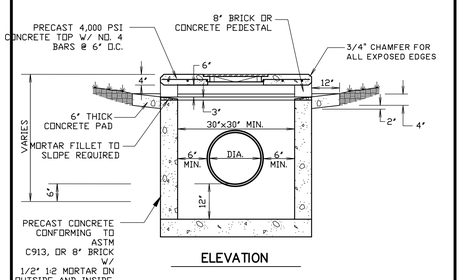
CONCRETE FLUME

NOT TO SCALE

D31
OCT. 2008
THOMAS & HUTTON ENGINEERING CO.



PLAN

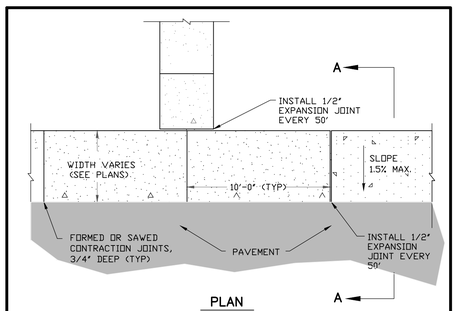


ELEVATION

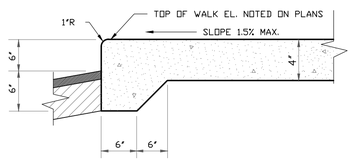
ROOF INLET DETAIL

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D9A
JUNE 2018
THOMAS & HUTTON ENGINEERING CO.



PLAN

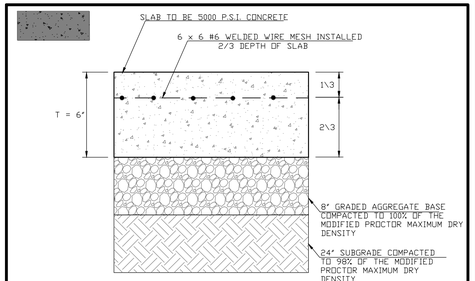


SECTION A-A

SIDEWALK AND WALKWAY DETAILS

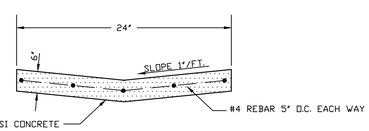
NOT TO SCALE

P36
OCT. 2008
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VEHICULAR CONCRETE PAVEMENT SECTION

(N.T.S.)



VALLEY GUTTER DETAIL

NOT TO SCALE

P21
OCT. 2008
THOMAS & HUTTON ENGINEERING CO.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

PAVING, GRADING & DRAINAGE DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

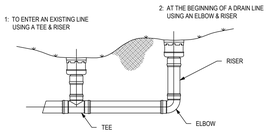
JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

C3.28

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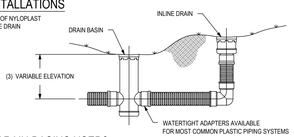
WHEN ARE INLINE DRAINS USED?

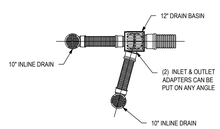
2708AG _ _ X
2710AG _ _ X
2712AG _ _ X
2715AG _ _ X
2718AG _ _ X
2724AG _ _ X
2730AG _ _ X



TYPICAL INSTALLATIONS

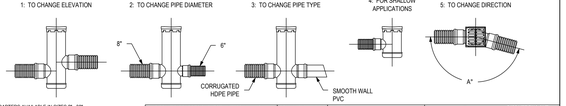
TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN





WHEN ARE DRAIN BASINS USED?

2808AG _ _ X
2810AG _ _ X
2812AG _ _ X
2815AG _ _ X
2818AG _ _ X
2824AG _ _ X
2830AG _ _ X



1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 30"
2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065

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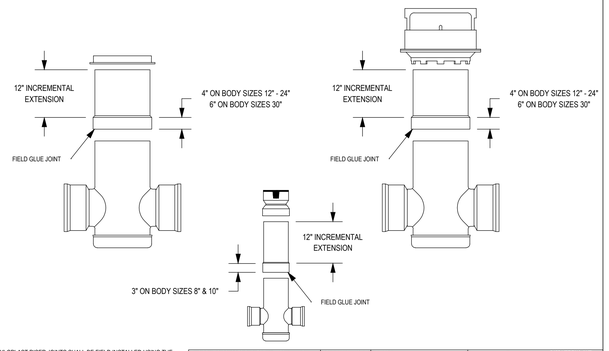
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DATE	8-10-00		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	1-6-10		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 8 IN - 30 IN TYPICAL INSTALLATION OPTIONS

DWG NO. 7001-110-042 REV D

NYLOPLAST RISER EXTENSION: 29 _ _ AG



1. NYLOPLAST RISER JOINTS SHALL BE FIELD INSTALLED USING THE GUIDELINES OUTLINED IN ASTM D2855.
2. PVC CEMENT USED SHALL MEET THE REQUIREMENTS OF ASTM D2564.
3. PVC PRIMER USED SHALL MEET THE REQUIREMENTS OF ASTM F656.

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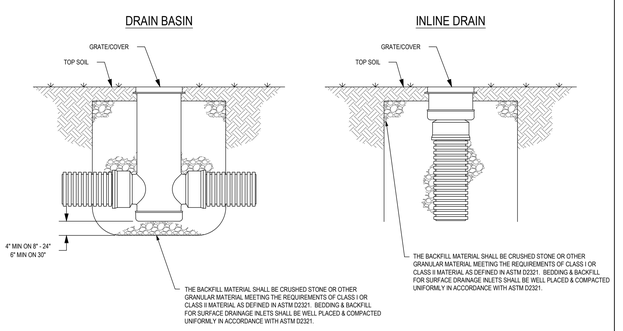
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DATE	9-18-00		
REVISED BY	JJC	PROJECT NO./NAME	
DATE	1-30-12		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

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TITLE: 8 IN - 30 IN RISER EXTENSION

DWG NO. 7001-110-065 REV D

NON TRAFFIC INSTALLATION



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DRAWN BY	CJA	MATERIAL	
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REVISED BY	CCA	PROJECT NO./NAME	
DATE	12-29-11		
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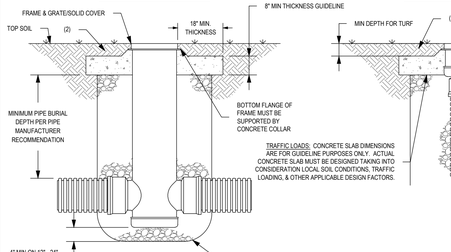
Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION

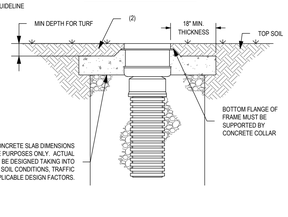
DWG NO. 7001-110-111 REV D

NYLOPLAST TURF TRAFFIC INSTALLATION

12" - 30" DRAIN BASIN



12" - 30" INLINE DRAIN



1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.

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DRAWN BY	EBC	MATERIAL	
DATE	01-05-09		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	12-03-14		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

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TITLE: 12 IN - 30 IN DRAIN BASIN & INLINE DRAIN TURF TRAFFIC INSTALLATION

DWG NO. 7001-110-340 REV E

Section 2722

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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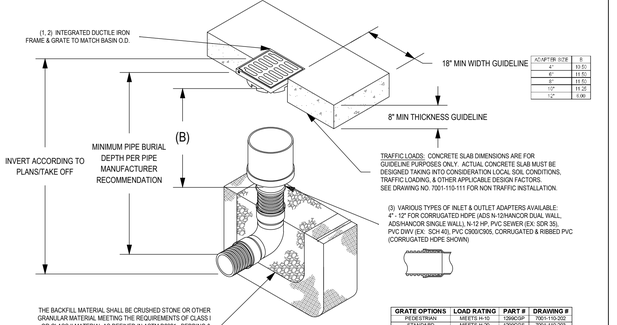
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REVISED BY	CCA	PROJECT NO./NAME	
DATE	09-09-13		
DWG SIZE	A	SCALE 1:1	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 8 IN - 30 IN INLINE DRAIN SPECIFICATIONS

DWG NO. 7003-110-009 REV G

NYLOPLAST 12" INLINE DRAIN: 2712AG _ _ X



ADAPTER SIZE	B
4"	33.50
6"	33.50
8"	33.50
10"	31.25
12"	0.00

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	7296GSP	7001-110-202
STANDARD	MEETS H-20	7296GSS	7001-110-203
SOLID COVER	MEETS H-20	7296GSC	7001-110-204
PEDESTRIAN BRONZE	N/A	7296GSPB	7001-110-205
DOME	N/A	7296GSD	7001-110-206
DROP IN GRATE	LIGHT DUTY	12D1DI	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES
6 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

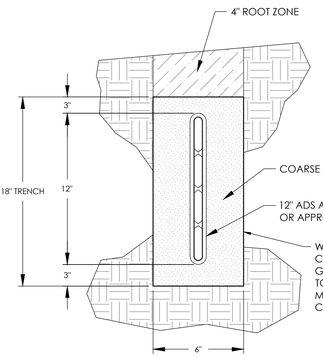
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DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	08-19-13		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

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TITLE: 12 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

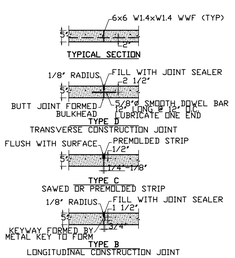
DWG NO. 7003-110-025 REV D



NOTES
1. TRENCH MUST BE NO LESS THAN 4" WIDE
2. MINIMUM COVER SHALL BE NO LESS THAN 6"
3. MINIMUM SLOPE TO VARY AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.

SLOT DRAIN DETAIL

NOT TO SCALE



1. ALL CATCH BASINS SHALL BE SEPARATED FROM THE PAVEMENT AND CURB BY BOXING OUT AROUND BASIN AS SHOWN ABOVE. EXPANSION JOINT MATERIAL SHALL PASS COMPLETELY THROUGH CURB AND SLAB. MANHOLE CASTINGS WITHIN THE PAVEMENT SHALL BE BOXED IN LIKE MANNER EXCEPT WHEN TELESCOPING TYPE CASTINGS ARE USED.

2. WHEN A JOINT FALLS WITHIN 5' OF OR CONTACTS BASINS, MANHOLES, OR OTHER STRUCTURES, SHORTEN ONE OR MORE PANELS EITHER SIDE OF OPENING TO PERMIT JOINT TO FALL ON ROUND STRUCTURES AND AT OR BETWEEN CORNERS OF RECTANGULAR STRUCTURES.

3. ALL TRANSVERSE JOINTS MUST EXTEND THROUGH CURBS AND MUST BE CONTINUOUS ACROSS PAVEMENT, EXCEPT TIED TRANSVERSE CONSTRUCTION JOINTS. EXPANSION JOINTS WILL NOT BE REQUIRED EXCEPT AT STRUCTURES OR AS SHOWN ON THE PLANS.

4. ALL SOFT AND YIELDING MATERIAL AND OTHER PORTIONS OF THE SUBGRADE WHICH WILL NOT COMPACT READILY WHEN ROLLED OR TAMPED SHALL BE REMOVED AS DIRECTED AND REPLACED WITH SUITABLE MATERIAL PLACED AND COMPACTED. THE SUBGRADE SHALL BE THOROUGHLY COMPACTED WITH SUITABLE EQUIPMENT SO AS TO HAVE UNIFORM DENSITY AT MOISTURE CONTENTS OF NOT LESS THAN STANDARD OPTIMUM (AASHTO T98). ALL SEWER TRENCHES AND STRUCTURE EXCAVATIONS SHALL BE BACKFILLED TO NATURAL OR FINISHED GRADE AS SOON AS CONDITIONS PERMIT. ALL BACKFILL SHALL BE COMPACTED WITH MECHANICAL TAMPERS IN LAYERS OF NOT OVER 8" LOOSE MATERIAL. IN ORDER TO PREVENT DIFFERENTIAL HEAVE, THE BACKFILL MATERIAL SHALL BE THE SAME MATERIAL AS THE SUBGRADE ADJACENT TO THE TRENCH.

5. THE MINIMUM CEMENT CONTENT SHALL NOT BE LESS THAN 6.0 SACKS (94 lb PER SACK) PER CU. YD. OF CONCRETE. THE MAXIMUM SIZE AGGREGATE SHALL NOT EXCEED 1/4 OF THE SLAB THICKNESS. THE MAXIMUM SLUMP SHALL NOT EXCEED 3". ALL CONCRETE SHALL BE AIR ENTRAINED IN ACCORDANCE WITH THE FOLLOWING TABLE:

MAX SIZE OF COARSE AGGREGATE, INCHES	AIR CONTENT PERCENT BY VOLUME
1-1/2"	6 ± 1
3/8", 1/2	7-1/2 ± 1

CONCRETE PAVEMENT NOTES AND DETAILS

1	INTERNAL QA/QC	FIT	6/19/25
NO.	REVISIONS	BY	DATE

BID SET - NOT FOR CONSTRUCTION

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

PAVING, GRADING & DRAINAGE DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

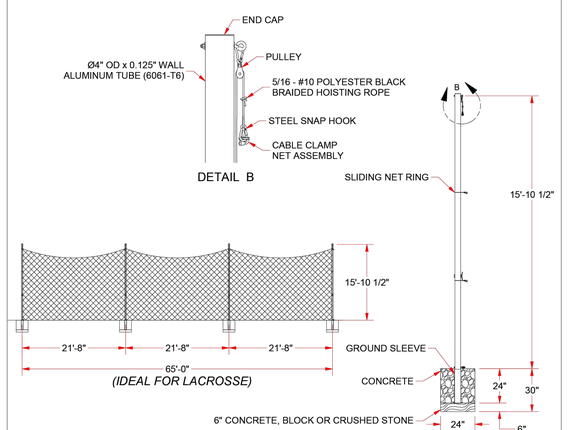
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

C3.29

15 FTx 65 FT MULTI-SPORT BACKSTOP SYSTEM



NOTE: THESE ARE SUGGESTED DIMENSIONS FOR AVERAGE SOIL CONDITIONS. CONSULT LOCAL BUILDING CODES.

FEATURES:
* Ø4" O.D. x 0.125" WALL ALUMINUM TUBE (6061-T6)
* POLES TO BE POWDER COAT BLACK
* CORROSION RESISTANT HARDWARE
* COMES WITH GROUND SLEEVE
* GROUND SLEEVE COVER - OPTIONAL (P/N: FN-20-C)
* 1-3/4", #36 KNOTLESS BLACK NYLON, 15' x 65', UV TREATED WITH 1/4" ROPE BORDER (STANDARD)

jaypro sports

FNMB-65

15 FT x 65 FT MULTI-SPORT BACKSTOP SYSTEM

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www.jayprosports.com
(800) 243-0533
976 Hartford Turnpike
Waterford, CT 06385 USA

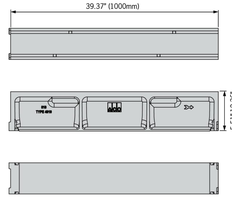
Rev: A

SHEET 1 OF 1

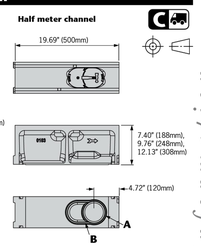
ACO SPORT

System 4000 - Open channel trench drain system

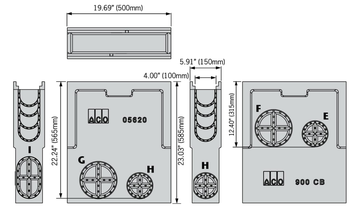
One meter channel



Half meter channel

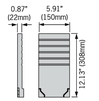


In-line catch basin

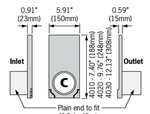


Total capacity = 5.9 gallons

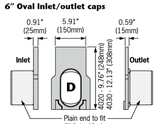
Closing cap



4" Inlet/outlet caps



6" Oval Inlet/outlet caps



Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - 40103	4" round	6.50	117	0.26
A	Bottom outlet - 40303	4" round	11.22	185	0.41
B	Bottom outlet - 40103	6" oval	6.50	183	0.40
B	Bottom outlet - 40303	6" oval	11.22	288	0.64
C	Outlet cap - 4010	4" round	6.50	119	0.27
C	Outlet cap - 4030	4" round	11.22	168	0.39
D	Outlet cap - 4020	6" oval	8.86	220	0.50
D	Outlet cap - 4030	6" oval	11.22	248	0.57
E	In-line catch basin*	4" round	12.40	175	0.40
F	In-line catch basin*	6" round	12.40	379	0.87
G	In-line catch basin*	6" round	22.24	530	1.22
H	In-line catch basin*	4" round	22.24	242	0.54
I	In-line catch basin*	6" oval	22.24	372	0.86

* Inline catch basin flow rate without trash bucket - using trash bucket reduces flow

ACO Specification Information

April 2018

www.ACOSport.us

ACO SPORT

System 4000 Open channel trench drain system

Description	Part No	Invert Depth inches	Invert Depth mm	Overall Depth inches	Overall Depth mm	Wgt lbs
4000-1 Sloped channel - 39.37" (1meter)	**138001**	4.61	117	5.51	140	32.0
4002 Constant depth channel - 39.37" (1meter)	**06562**	**4.61**	**117**	**5.51**	**140**	**32.9**
4000-2 Sloped channel - 39.37" (1meter)	**138002**	4.84	123	5.75	146	32.9
4000-3 Sloped channel - 39.37" (1meter)	**138003**	5.08	129	5.98	152	33.8
4000-4 Sloped channel - 39.37" (1meter)	**138004**	5.31	135	6.22	158	34.7
4000-5 Sloped channel - 39.37" (1meter)	**138005**	5.55	141	6.46	164	35.6
4000-6 Sloped channel - 39.37" (1meter)	**138006**	5.79	147	6.69	170	36.5
4000-7 Sloped channel - 39.37" (1meter)	**138007**	6.02	153	6.93	176	37.4
4000-8 Sloped channel - 39.37" (1meter)	**138008**	6.26	159	7.17	182	38.3
4000-9 Sloped channel - 39.37" (1meter)	**138009**	6.50	165	7.40	188	39.2
4010 Constant depth channel - 39.37" (1meter)	**06561**	**6.50**	**165**	**7.40**	**188**	**40.1**
40103 Constant depth channel - 19.69" (0.5meter)	**138033**	**6.50**	**165**	**7.40**	**188**	**23.0**
4000-10 Sloped channel - 39.37" (1meter)	**138010**	6.73	171	7.64	194	40.1
4000-11 Sloped channel - 39.37" (1meter)	**138011**	6.97	177	7.87	200	41.0
4000-12 Sloped channel - 39.37" (1meter)	**138012**	7.20	183	8.11	206	41.9
4000-13 Sloped channel - 39.37" (1meter)	**138013**	7.44	189	8.35	212	42.8
4000-14 Sloped channel - 39.37" (1meter)	**138014**	7.68	195	8.58	218	43.7
4000-15 Sloped channel - 39.37" (1meter)	**138015**	7.91	201	8.82	224	44.6
4000-16 Sloped channel - 39.37" (1meter)	**138016**	8.15	207	9.06	230	45.5
4000-17 Sloped channel - 39.37" (1meter)	**138017**	8.39	213	9.29	236	46.4
4000-18 Sloped channel - 39.37" (1meter)	**138018**	8.62	219	9.53	242	47.3
4000-19 Sloped channel - 39.37" (1meter)	**138019**	8.86	225	9.76	248	48.2
4020 Constant depth channel - 39.37" (1meter)	**06563**	**8.86**	**225**	**9.76**	**248**	**49.1**
40203 Constant depth channel - 19.69" (0.5meter)	**138035**	**8.86**	**225**	**9.76**	**248**	**26.0**
4000-20 Sloped channel - 39.37" (1meter)	**138020**	9.09	231	10.00	254	49.1
4000-21 Sloped channel - 39.37" (1meter)	**138021**	9.33	237	10.24	260	50.0
4000-22 Sloped channel - 39.37" (1meter)	**138022**	9.57	243	10.47	266	50.9
4000-23 Sloped channel - 39.37" (1meter)	**138023**	9.80	249	10.71	272	51.8
4000-24 Sloped channel - 39.37" (1meter)	**138024**	10.04	255	10.94	278	52.7
4000-25 Sloped channel - 39.37" (1meter)	**138025**	10.28	261	11.18	284	53.6
4000-26 Sloped channel - 39.37" (1meter)	**138026**	10.51	267	11.42	290	54.5
4000-27 Sloped channel - 39.37" (1meter)	**138027**	10.75	273	11.65	296	55.6
4000-28 Sloped channel - 39.37" (1meter)	**138028**	10.98	279	11.89	302	56.5
4000-29 Sloped channel - 39.37" (1meter)	**138029**	11.22	285	12.13	308	57.4
4030 Constant depth channel - 39.37" (1meter)	**138036**	**11.22**	**285**	**12.13**	**308**	**58.3**
40303 Constant depth channel - 19.69" (0.5meter)	**138037**	**11.22**	**285**	**12.13**	**308**	**31.0**
4000-30 Sloped channel - 39.37" (1meter)	**138030**	11.46	291	12.36	314	59.2
Catch basin						
In-line catch basin - 19.69" (0.5m)	**05620**	22.13	562	23.03	585	62.0
QuickLok bar (removable)	**98717**	-	-	-	-	0.1
Series 900 plastic trash bucket	**01498**	-	-	-	-	1.1
6" oval to round adapter (fits outlets B & I)	**95140**	-	-	-	-	1.1
Accessories						
Debris strainer for 4" bottom knockout (fits outlet A)	**93488**	-	-	-	-	0.2
Universal closing end cap	**137090**	-	-	12.13	308	4.5
104-4 Inlet cap with 4" schedule 40 pipe	**137091**	6.50	165	7.40	188	2.6
108-4 Outlet cap with 4" schedule 40 pipe	**137092**	6.50	165	7.40	188	2.0
204-4 Inlet cap with 4" schedule 40 pipe	**137093**	8.86	225	9.76	248	3.7
208-4 Outlet cap with 4" schedule 40 pipe	**137094**	8.86	225	9.76	248	2.6
204-6 Inlet end cap with 6" schedule 35 pipe	**137099**	8.86	225	9.76	248	3.3
208-6 Outlet end cap with 6" schedule 35 pipe	**137095**	8.86	225	9.76	248	2.6
304-4 Inlet cap with 4" schedule 40 pipe	**137096**	11.22	285	12.13	308	4.6
308-4 Outlet cap with 4" schedule 40 pipe	**137097**	11.22	285	12.13	308	3.3
304-6 Inlet end cap with 6" schedule 35 pipe	**137100**	11.22	285	12.13	308	4.4
308-6 Outlet end cap with 6" schedule 35 pipe	**137098**	11.22	285	12.13	308	3.3

Notes:
1. Preformed 4" dia. & 6" flumed drill-out outlet cast on underside of half meter channels only.
2. Closing cap can be cut down to suit all channels.
3. Invert depths are at the male (downstream) end - subtract 0.24" (6mm) for female invert depth **EXCEPT** constant depth channels where the invert is the same both ends.

ACO, Inc.
West Sales Office
825 W Beechcraft Street
Casa Grande, AZ 85122
Tel: (520) 421-9988
Toll Free: (888) 490-9552
Fax: (520) 421-9899

Northeast Sales Office
9470 Pinecone Drive
Mentor, OH 44060
Tel: (440) 639-7230
Toll free: (800) 543-4764
Fax: (440) 639-7235

Southeast Sales Office
4211 Pleasant Road
Fort Mill, SC 29708
Toll free: (800) 543-4764
Fax: (803) 802-1063

Follow us on
Electronic Contact:
info@ACOSport.us
www.ACOSport.us

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Rev:mar ADD22

SPEC INFO

April 2018

Part I - General
1.1 **Related Work** - Work specified in other sections includes: Excavation and backfill, cast-in-place concrete, and mechanical equipment.

1.2 **System Description** - Interconnecting, polymer concrete modular trench drainage system.

1.3 **Submittals** - On request, shop drawings showing schematic plan of total drainage system listing all parts with center-line dimensions. Copies of manufacturer's recommended installation instructions.

1.4 **Project History** - Manufacturer to provide list of installed projects, if required.

1.5 **Warranty** - Limited one year product warranty based on installation according to manufacturer's installation instructions (see below).

Part II - Product
2.1 **Products** - Manufactured by ACO, Inc.

2.2 **Physical & Mechanical Characteristics**
- Overall width - 5.91 inches (150mm)
- Internal width - 4.00 inches (100mm)
- Unit depth - varies - see Product Table
- Unit length - 39.37 inches (1000mm), or 19.69" (500mm)
- Compressive strength - 14,000 psi
- Flexural strength - 4,000 psi
- Water absorption rate - <0.1% by weight.
- ADA compliant to American Disabilities Act of 1990 Section 4.5.4 with appropriate grate (4940/4950)

2.3 **Channel Profile** - Each unit features a full radius in trench bottom, and male to female interconnecting ends. Horizontal cast-in anchoring features on outside walls to ensure maximum mechanical bond to surrounding bedding material.

2.4 **Catch Basins** - Manufactured from polymer concrete, be one half meter (19.69") in length and include a trash bucket (optional).

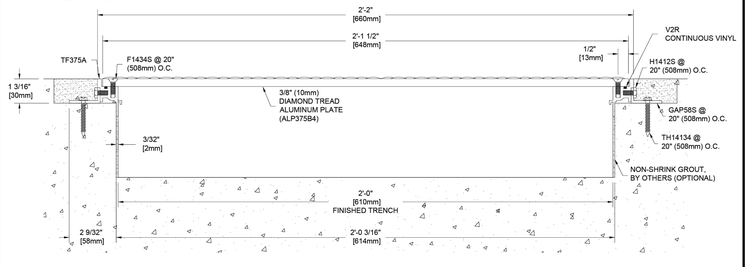
2.5 **Grates** - A choice of QuickLok grates are available. See separate Spec Info sheets for details.

Part III - Installation
3.1 **Site Preparation** - Excavate area to accommodate ACO SPORT System 4000 channel and to allow a minimum of 4 inches (100mm) concrete encasement (recommended 4,000psi) on 3 sides to provide necessary support. Top of channel must be evenly aligned to surface of surrounding slab. See installation section for haunch details for different loadings & pavement materials.

3.2 **Installation** - Start at outlet or catch basin. Insert channels from above to allow ends to interconnect. Channel sections shall be placed on brick, rebar basket, install device, or low slump concrete slurry to obtain correct finished elevation. Cutting will be made, if required, by masonry or concrete saw. Protect channel from concrete splash during concrete pour. Place concrete in a manner that will not dislodge channels.

3.3 **Finishing and Clean-up** - Following final set of concrete, remove channel protection and thoroughly flush system to remove debris.

3.4 Install in strict accordance with manufacturer's recommendations and drawings. Full details available at **www.ACOSport.us.**

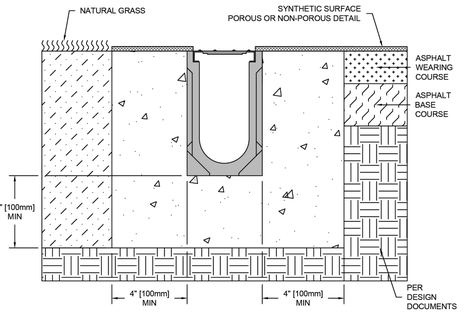


Project:	Length	Qty.	Color	Drawn By: DEB
Customer:				
SO#				
Date:				
Page ___ of ___	Scale: NTS			

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REV. - 11/17/21



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

SPORT 4000

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE SYSTEM 4000 CHANNEL SYSTEM AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 4" (100mm) NOMINAL INTERNAL WIDTH AND A 6.1" (155mm) OVERALL WIDTH. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

4002 CHANNEL : INVERT DEPTH - 4.65"
4010 CHANNEL : INVERT DEPTH - 6.54"
4020 CHANNEL : INVERT DEPTH - 8.90"
4030 CHANNEL : INVERT DEPTH - 11.26"

STANDARD ACO DRAIN GRATES AND LOCKING DEVICES ARE USED, SEE SEPARATE SPECIFICATION SHEETS FOR INFORMATION.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
REFER TO ARCHITECT'S PLANS FOR TRENCH AND CATCH BASIN LOCATION.

S4000-FCGS	SYSTEM 4000: Full Concrete, Grass & Synthetic Surface Overlay	ACO Polymer Products, Inc.
DATE: 12/04/13	INSTALLATION DRAWING - ACO SPORT	825 W. Beechcraft St, Casa Grande, AZ 85122, Tel: 520-421-9988, Fax: 520-421-9899 / P.O. Box 245, Chardon, OH 44024, Tel: 440-285-7000, Fax: 440-285-8517 / 4211 Pleasant Rd. Fort Mill, SC 29708, Tel: 800-543-4764, Fax: 803-802-1063

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-622-2377

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON

50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

PAVING, GRADING & DRAINAGE DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 1'

C3.30

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SPORTS FIELD ROOT MIX NOTES

A: SUBMITTALS
CONTRACTOR SHALL SUBMIT THE FOLLOWING: 2 GALLON PHYSICAL SAMPLE OF PROPOSED SOIL MIX, ALONG WITH GRADATION ANALYSIS, PROCTOR RESULTS, SOIL CLASSIFICATION RESULTS, TOPSOIL/ROOTZONE SOIL TESTS/AMENDMENT RECOMMENDATIONS AND OTHER REQUIRED ASTM TEST IDENTIFIED HEREIN FOR ALL BORROW AND TOPSOIL/ROOTZONE MATERIALS. UPON ACCEPTANCE BY THE OWNER, THESE TEST RESULTS WILL BE THE BASIS FOR FUTURE TEST RESULT COMPARISONS.

B:TESTING
LABORATORY TESTS FOR MOISTURE DENSITY RELATIONSHIP FOR FILL MATERIALS SHALL BE IN ACCORDANCE WITH ASTM D 1557, (MODIFIED PROCTOR). TOPSOIL TESTING IN ACCORDANCE WITH ASTM D5268. TESTING LABORATORY SHALL OPERATE IN ACCORDANCE WITH ASTM D 3740 AND E 329 AND BE ACCEPTABLE TO THE ENGINEER. THE TESTING LABORATORY AND PROJECT ENGINEER/PROJECT REPRESENTATIVE SHALL BE GIVEN A MINIMUM OF 48 HOURS NOTICE PRIOR TO TAKING ANY OF THE TESTS. OWNER SHALL SELECT AND ENGAGE THE TESTING LABORATORY. TESTING LABORATORY SHALL BE RESPONSIBLE TO THE OWNER. PAYMENT FOR LABORATORY AND ALL TESTS (OTHER THAN INITIAL PROPOSED MIXTURE TEST RESULTS) SHALL BE BY THE OWNER, EXCEPT OWNER SPECIFICALLY RESERVES THE RIGHT TO DEDUCT FROM CONTRACTOR'S PAYMENT, EXPENSES AND CHARGES OF TESTING LABORATORY WHEN: CONTRACTOR GIVES NOTICE THE WORK IS READY FOR INSPECTION AND TESTING, AND FAILS TO BE READY FOR THE TEST, AND/OR TESTING OF THE CONTRACTOR'S WORK, PRODUCTS OR MATERIALS FAIL, AND RETESTING IS REQUIRED, AND/OR CONTRACTOR ABUSES THE SERVICES OR INTERFERES WITH THE WORK OF THE TESTING LABORATORY IN THE CONDUCT OF THIS WORK. TEST RESULTS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO CONTINUING WITH ASSOCIATED OR SUBSEQUENT WORK.

C: MATERIALS
FREELY DRAINING FILL
SHALL MEET THE STANDARDS OF GREENS MIX BELOW, WITH THE FOLLOWING EXCEPTIONS:
ORGANIC CONTENT MAY BE LESS THAN 0.5%.

- pH SHALL NOT DIFFER SO GREATLY AS TO HAVE POTENTIAL TO ALTER THE pH OF THE ROOTZONE MIX.
- MINIMUM PERMEABILITY RATE OF 4 TO 6 INCHES PER HOUR

GREENS MIX (80%/20%) FOR TURFED / GRASSED AREAS
SHALL BE A "SAND-BASED ROOTZONE" PER ASTM F2396-11. BORROW FOR TOPSOIL/ROOTZONE SOIL SHALL BE FREELY DRAINING, FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL WHICH IS FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS, AND LITTER. IT SHALL NOT CONTAIN ANY ROOTS, STUMPS, STONES LARGER THAN ONE-HALF INCH IN ANY DIMENSION AND EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. FURTHER, THE SOIL SHALL CONSIST OF THE FOLLOWING MINIMUM STANDARDS:

Required Chemical Properties of the Greens Mix

Chemical Property	Specified Range
pH (Test Method D4972)	5.0 to 7.5 (Adjustments may be necessary based on soils test recommendations based on grass species specified)
Calcium carbonate equivalent	<5 %
Organic matter (Test Methods F1647)	0.5 to 2.5 %
Nutrient content	Adjust per recommendations of soils test
Heavy metals or other phytotoxic ions	Adjust per recommendations of soils test , do not exceed regulated thresholds

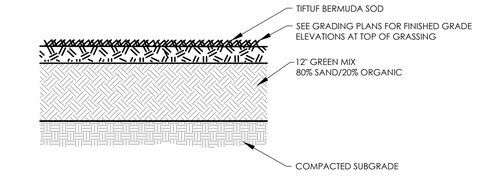
Required Mechanical Properties of the Greens Mix

Mechanical Property	Specified Range
Friction angle (degrees) (Test Method D3080) or,	38 to 50
Angle of repose (degrees) (Test Method C1444)	35 to 45
CBR (%) (Test Method D1883)	12 to 25
Coefficient of Uniformity (CU) of sand component	2.5 to 4.5

- SOILS USED TO INCREASE ORGANIC CONTENT THAT EXHIBIT A SILT TO CLAY RATIO GREATER THAN 2 SHALL NOT BE USED. LIKEWISE, THOSE SOILS WITH A FINES (SILT + VERY FINE SAND + FINE SAND) TO CLAY RATIO GREATER THAN 3 SHALL BE AVOIDED. GENERALLY, SOILS CONTAINING MORE THAN 6 % ORGANIC MATTER SHOULD NOT BE USED, NOR ANY MUCKY-TYPE SOILS. PEAT MAY BE USED TO INCREASE THE ORGANIC MATTER CONTENT IN A THREE-WAY BLEND OF SAND-SOIL-PEAT.
- NOT LESS THAN 80% SAND AND TOTAL CLAY, SILT, AND VERY FINE PARTICLE SIZES (0.25 mm OR LESS) SHOULD BE LESS THAN 15%.
- NOT LESS THAN 50% OF THE SOIL SHALL BE SAND RANGING FROM 0.25 TO 1.0 MM AND SHALL BE SUB-ANGULAR PARTICLE SHAPE.
- SANDS THAT HAVE A PREDOMINANCE OF GRAINS THAT SHOW EXTREMES IN ANGULARITY(EXTREMELY ANGULAR OR EXTREMELY ROUND) THAT FIT OUTSIDE THE CLASSIFICATION IN ASTM F1632 WILL NOT BE ACCEPTED.
- MINIMUM PERMEABILITY RATE OF 4 TO 6 INCHES/HOUR.
- AMENDMENTS AS NECESSARY FOR pH, ORGANIC AND NUTRIENTS RECOMMENDED BY SOILS TEST BASED ON THE SPECIFIED TURF GRASS AND ESTABLISHMENT METHOD.

CONTRACTOR SHALL FURNISH ALL MATERIAL NECESSARY TO CREATE A BLENDED GREENS MIX THAT MEETS THE SPECIFICATION ABOVE. THE BLENDING OPERATION SHALL ONLY PROCEED ONCE ALL OF THE MATERIALS HAVE BEEN TESTED AND APPROVED AND TRANSPORTED TO THE BLENDING SITE. BLENDING SHOULD BE PERFORMED USING COMMERCIAL SOIL BLENDING EQUIPMENT DESIGNED FOR THIS PURPOSE AND SHALL BE BLENDED, TESTED AND APPROVED PRIOR TO BE PLACE ON THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR AND BEAR ALL EXPENSES IN DEVELOPING BORROW SOURCES (IF NECESSARY) INCLUDING SECURING NECESSARY PERMITS, DRYING THE MATERIAL, HAUL ROADS, CLEARING, GRUBBING, EXCAVATING THE PITS, PLACING, COMPACTION AND RESTORATION OF PITS AND HAUL ROADS TO A CONDITION SATISFACTORY TO PROPERTY OWNERS AND IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

D: EXECUTION
1. GREENS MIX SOIL
CONTRACTOR SHALL SUBMIT PHYSICAL SAMPLE AND ALONG WITH TESTING RESULTS AND RECOMMENDED IMPROVEMENTS FOR SOIL. FREELY DRAINING FILL AND ROOTZONE SOIL SHALL BE PLACED TO THE DEPTH AS SPECIFIED OVER ALL DISTURBED OR PROPOSED TURF / GRASSED AREAS. ANY EXCESS MATERIALS SHALL BE HAULED FROM SITE AT CONTRACTOR'S EXPENSE UNLESS OTHERWISE APPROVED BY THE OWNER TO BE STOCKPILED FOR FUTURE USE. DO NOT OVER COMPACT ROOTZONE SOIL. UNPAVED AREAS OUTSIDE OF FIELD LIMITS ARE TO BE WITHIN 0.1 FEET OF ELEVATIONS SHOWN ON THE DRAWINGS PROVIDED SUCH DEVIATION DOES NOT CREATE LOW SPOTS THAT DO NOT DRAIN. AREAS WITHIN THE FIELD LIMITS SHALL BE WITHIN 0.02 FEET OF THE ELEVATIONS SHOW ON THE DRAWINGS. THE ESTABLISHMENT OF FINAL GRADES SHALL BE VIA LASER GRADE. SEE ASTM F2396 " PLANS AND SPECIFICATION FOR ADDITIONAL INFORMATION.



SODDED SPORT FIELDS SECTION DETAIL
NOT TO SCALE

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

PAVING, GRADING & DRAINAGE DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 1'

C3.31

Z:\2025\25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION\MASTER\25412.0029 - MASTER.DWG - Aug 5, 2025 - 3:48 PM

GRASSING SPECIFICATIONS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Seeding, planting grass, and fertilizing graded areas around buildings, structures, soccer fields and sidewalk shoulders and other disturbed areas.

B. Seed protection.

C. Maintaining grassed areas until final acceptance.

1.2 DELIVERY, STORAGE, AND HANDLING

A. Deliver grass seed in original containers showing analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging, and location of packaging. Damaged packages are not acceptable. Store in cool, dry locations away from contaminants.

B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer. Damaged bags are not acceptable. Store in cool, dry locations away from contaminants.

C. Deliver sod on pallets.

D. All material shall be acceptable to Engineer prior to use.

1.3 PLANTING DATES

A. This specification provides for establishment of a permanent grass cover between the dates of March 1 and September 30. If finished earth grades are not completed in time to permit planting and establishment of permanent grass during the favorable season between dates specified above unless otherwise accepted, Contractor will be required to plant a temporary cover to protect new graded areas from erosion and to keep windborne dust to a minimum. The temporary cover shall be planted between October 1 and February 28 unless otherwise permitted.

PART 2 - PRODUCTS

Contractor shall submit source and species certification documents to Engineer and Owner's Representative for review prior to installation. Supply complete information on all analysis / test methodologies and results; laboratory certifications, manufacturer's specifications, and agency approvals to the Landscape Architect prior to placement of soil mixtures. In addition, provide the Landscape Architect with thoroughly mixed sample of soil mixes for approval prior to placement. Landscape Contractor shall make modifications and improvements to soil mixes deemed necessary by the soil analysis to meet requirements specified here in before, and to ensure proper growing medium for plant material.

2.1 SEED

A. All seed shall conform to all State Laws and to all requirements and regulations of the State Department of Agriculture.

B. The varieties of seed, as specified in Section 2.2, shall be individually packaged or bagged, and tagged to show name of seed, net weight, origin, germination, lot number, and other information required by the State Department of Agriculture.

C. The Engineer reserves the right to test, reject, or accept all seed before seeding.

2.2 SEEDING SCHEDULE

A. SEED	RATE	PLANTING DATES
Bermuda	75 lbs/ acre	March 1 - September 30
Annual Rye (Temp only)	75 lbs/acre	October 1 - February 28

2.3 FERTILIZER

A. Commercial fertilizer of approved type, conforming to state fertilizer laws at the rate as recommended by soils test.

2.4 LIME

A. Agricultural grade, ground limestone at the rate as recommended by soils test.

2.5 SPRIG

A. Healthy living stems, stolons, or rhizomes and attached roots of locally adapted grass without adhering soil, including two to three nodes and from 4 to 6 inches long. Obtain from heavy, dense certified sod. Provide sprigs which have been grown under climatic conditions similar to those in the locality of the project. Coordinate harvesting and planting operations to prevent exposure of sprigs to the sun for more than 30 minutes before covering and moistening. Sprigs showing signs of wilt, mold, containing weeds or other detrimental material or that are heat damaged will be rejected.

B. The varieties of sprig, as specified in section 2.6, shall be individually packaged or bagged, and tagged to show name of sprig, net weight, origin and other information required by the State Department of Agriculture.

C. Sprigs shall be pure to variety specified and shall be free of other grass species, weeds or foreign matter.

D. Sprigs shall be harvested by digging (not collected above soil level) shredding sod, by rototilling sod and raking, by vericutting or by a sprig harvester. Sprigs shall consist of mostly rhizomes and crowns with only a few green leaves.

2.6 SPRIGGING SCHEDULE

A. SPRIG	RATE	PLANTING DATES
'Tiftuf 419' Bermuda (or approved equal)	1,000 bushels / ac. (Coverage in 3 months)	April 1 - August 31
Stabilize site with temporary grass seed (See section 2.2)		September 1 - March 31

B. In areas where existing grass is to be matched, Contractor shall sprig at the rate and dates recommended by sprig distributor.

2.7 SOD

A. Sod shall be premium grade, densely rooted, good quality grass of the species and certified variety as shown on the plans, free from noxious weeds with no surface soil being visible. The sod shall be obtained from areas where the soil is reasonably fertile. Sod of specified species with not less than 95 percent germination, not less than 85 percent pure seed, and not more than 0.5 percent weed seed. The sod shall be machine cut to a uniform soil thickness that shall contain practically all of the dense root system and not be less than 1-inch thick.

B. Before cutting, sod shall be mowed to a height of not less that 1-1/2" or more than 2". Sod shall be cut in uniform widths min. 12" and in lengths min. 24 inches.

C. Sod shall be delivered to site in a fresh, moist condition with healthy green foliage. It shall be unloaded from delivery trucks on pallets or rolls and placed in final position within 24 hours of delivery. Sod shall be protected from wind and sun and shall not be allowed to dry out before planting.

D. Sod shall be strong enough to support its own weight and retain its size and shape when suspended vertically from a firm grasp on the upper 10 percent of the section.

2.8 ACCESSORIES

A. Straw Mulch: Oat or wheat straw, reasonably free from weeds, foreign matter detrimental to plant life, and in dry condition.

B. Excelsior Mulch: Excelsior mulch shall consist of wood fibers cut from sound, green timber. The average length of fibers shall be 4 to 6 inches. Cut shall be made in such a manner as to provide maximum strength of fiber, but at a slight angle to natural grain of the wood to cause splintering of fibers when weathering in order to provide adherence to each other and to soil.

C. Wood cellulose fiber shall be made from wood chip particles manufactured particularly for discharging uniformly on the ground surface when dispersed by a hydraulic water sprayer. It shall remain in uniform suspension in water under agitation and blend with grass seed and fertilizer to form a homogenous slurry. Mulch fibers shall intertwine physically to form a strong moisture holding mat on the ground surface and allow rainfall to percolate into underlying soil. The mulch shall be heat processed to contain no germination or growth-inhibiting factors. It shall be dyed (non-toxic) an appropriate color to facilitate metering of material.

2.9 PRODUCT REVIEW

A. Contractor shall provide the Engineer with a complete description of all products before ordering. The Engineer will review all products before they are ordered.

PART 3 - EXECUTION

3.1 PREPARATION

A. Areas to be seeded or sprigged shall be made smooth and uniform and shall conform to the finished grade indicated on plans.

B. Remove foreign materials, plants, roots, stones, and debris from surfaces to be seeded.

C. Grassing areas, if not loose, shall be loosened to a minimum depth of 3 inches before fertilizer, seed, sprig or sod is applied.

D. Amendments to soils shall be incorporated into loosened 3 inch top soil layer as recommended by soils test.

E. No seeding shall occur until acceptance of the seed bed preparation has occurred. , Contractor shall notify owner and landscape architect once seed bed is prepared for review and acceptance.

3.2 STAND OF GRASS

A. Before acceptance of seeding or sprigging is performed for the establishment of permanent vegetation, Contractor will be required to produce a satisfactory stand of perennial grass whose root system shall be developed sufficiently to survive dry periods and winter weather and be capable of re-establishment in spring.

B. Before acceptance of seeding performed for the establishment of temporary vegetation, Contractor will be required to produce a stand of grass sufficient to control erosion for a given area and length of time before the next phase of construction or establishment of permanent vegetation is to commence.

3.3 SEEDING AND SPRIGGING DATES

A. Seeding and sprigging shall be performed during periods and at rates specified in their respective schedules. Seeding and sprigging work may, at discretion of Contractor, be performed throughout the year using schedule prescribed for given period. Seeding and sprigging work shall not be conducted when the ground is frozen or excessively wet. Contractor will be required to produce a satisfactory stand of grass regardless of the period of year work is performed.

3.4 APPLYING LIME AND FERTILIZER

A. Following advance preparation and placing selected material for shoulders and slopes, lime and fertilizer, if called for based on soil tests, shall be spread uniformly over the designated areas, and shall be thoroughly mixed with the soil to a depth of approximately 2 inches. Fertilizer and lime shall be applied at the rate at the rate recommended by required soils test. Unless otherwise provided, lime will not be applied for temporary seeding. In all cases where practicable, acceptable mechanical spreaders shall be used for spreading fertilizer. On steep slopes subject to slides and inaccessible to power equipment, the slopes shall be adequately scarified. Fertilizer may be applied on steep slopes by hydraulic methods as a mixture of fertilizer and seed. When fertilizer is applied with combination seed and fertilizer drills, no further incorporation will be necessary. The fertilizer and seed shall be applied together when Wood Cellulose Fiber Mulch is used. Any stones larger than 2 ½ inches in any dimension, larger clods, roots, or other debris brought to the surface shall be removed.

3.5 SEEDING

A. Seed shall be sown within 24 hours following application of fertilizer and lime and preparation of the seedbed as specified in Section 3.4. Seed shall be uniformly sown at rate specified by the use of acceptable mechanical seed drills. Rotary hand seeders, power sprayers or other satisfactory equipment may be used on steep slopes or on other areas inaccessible to seed drills.

B. Seeds shall be covered and lightly compacted by means of cultipacker or light roller if the drill does not perform this operation. On slopes inaccessible to compaction equipment, the seed shall be covered by dragging spiked chains, by light harrowing or by other satisfactory methods.

C. Apply water with fine spray immediately after each area has been sown.

D. Do not sow seed when ground is too dry, during windy periods or immediately following a rain.

E. If permitted by the special provisions, wood cellulose fiber mulch or excelsior fiber mulch may be used.

3.6 SEED PROTECTION (STRAW MULCH)

A. All seeded areas seeded with permanent grasses shall be uniformly mulched in a continuous blanket immediately following seeding and compacting operations, using at least 2 tons of straw per acre.

3.7 SEED PROTECTION (EXCELSIOR MULCH)

A. Seed shall be sown as specified in Section 3.5. Within 24 hours after covering of seed, excelsior mulch shall be uniformly applied at the rate of 2 tons per acre. The mulch may be applied hydraulically or by other acceptable methods. Should the mulch be placed in a dry condition, it shall be thoroughly wetted immediately after placing. Engineer may require light rolling of the mulch to form a tight mat.

3.8 SEED PROTECTION (WOOD CELLULOSE FIBER MULCH)

A. After the lime has been applied and ground prepared as specified in Section 3.4, wood cellulose fiber mulch shall be applied at a rate of 1,500 pounds per acre in a mixture of seed and fertilizer. Hydraulic equipment shall be used for application of fertilizer, seed, and slurry of the prepared wood pulp. This equipment shall have a built-in agitation system with an operating capacity sufficient to agitate, suspend, and homogeneously mix a slurry of the specified amount of fiber, fertilizer, seed, and water. The slurry distribution lines shall be large enough to prevent stoppage. The discharge line shall be equipped with a set of hydraulic spray nozzles which will provide an even distribution of slurry on various areas to be seeded. The slurry tank shall have a minimum capacity of 1,000 gallons.

Seed, fertilizer, wood pulp mulch, and water shall all be combined into the slurry tank for distribution of all ingredients in one operation by hydraulic seeding method specified herein. Materials shall be combined in a manner recommended by the manufacturer. The slurry mixture shall be regulated so amounts and rates of application shall result in a uniform application of all materials at rates not less than amount specified. Using the color of wood pulp as a guide, equipment operator shall spray prepared seedbed with a uniform visible coat. The slurry shall be applied in a sweeping motion, in an arched stream to fall like rain, allowing wood fibers to build upon each other until an even coat is achieved.

3.9 SPRIGGING

A. Sprigs shall be placed at the date and rates as shown in section 2.6. The sprigging method shall be by broadcast sprigging, hydroplanting or row planter. Sprigging procedure shall ensure even coverage.

B. Sprigs applied by broadcast over the site with a distributor or hydroseeder shall be planted at the rates listed in section 2.6. Cover broadcast sprigs with straw mulch immediately after broadcast and water in immediately (within 2 hours).

C. Sprigs installed by row planter creating a narrow furrow that covers 50 to 80% of the sprig with soil may use less sprig material. Rate shall be as recommended by sprig supplier to provide a solid stand of turf within the time required in Section 2.6. Water in immediately (within 1 hour).

3.10 SODDING

A. Sod shall be placed between March 1st and December 1st. However, if sod is to be placed during periods of temperatures over 90 degrees F., the contractor shall take extra care for quick placement of sod with adequate, consistent watering necessary to ensure sod thrives as planted.

B. Sod shall be placed within 24 hours of cutting.

C. Place top elevation of sod 1/2 inch below adjoining paving or curbs.

D. All areas to be sodded shall be brought to the proper line grade or cross section as was existing prior to construction. Sod shall be placed so that, upon completion, the edges of the sodded areas will be smooth and will conform to the proposed finished grade. Sod shall be laid smooth, edge to edge, with staggered joints. Sod shall be immediately pressed firmly into contact with the sod bed by tamping or rolling, to eliminate any air pockets. A true and even surface shall be provided, to insure knitting without displacement of the sod or deformation of the surfaces of the sodded areas. Do not stretch or overlap sod pieces. Following compaction, screened soil of good quality shall be used to fill all cracks, and excess soil shall be worked into the grass with rakes or other suitable equipment. On slopes steeper than 4 to1, the sod shall be fastened in place with suitable wood or metal pins to hold the sod in place. Any damage by erosion or other causes that may have occurred after completion of grading operations shall be repaired, before commencing with the sodding operations.

E. Immediately before sodding, moisten topsoil with a fine spray to a minimum 1" depth. Sod shall not be laid on soil that is dry and powdery.

F. Sod shall be moist when laid and placed on moist ground. The sod shall be carefully placed by hand, beginning at the toe of slopes and working upwards. The length of the strips shall be at right angles to the flow of surface water. All joints shall be tightly butted and end joints shall be staggered at least 12 inches. The sod shall be immediately pressed firmly into the ground by tamping or rolling. Fill all joints between strips with fine screened soil. Sod on slopes shall be pegged with sod pegs to prevent movement. The sod shall be watered, mowed, weeded, repaired, or otherwise maintained, to insure the establishment of a uniform healthy stand of grass until acceptance.

G. Within 2 hours after sod has been placed, thoroughly water to a minimum depth of 4". After sod and soil have dried, roll sodded areas to ensure good bond between sod and soil and to remove depressions and irregularities. Roll sodded areas with a roller not exceeding 150 lbs. per foot of roller width. Top dress and roll again as necessary to create a smooth even surface.

PART 4 - MAINTENANCE, WARRANTY AND ACCEPTANCE

4.1 MAINTENANCE

A. Maintenance shall consist of providing protection against traffic, watering to ensure uniform seed germination and to keep surface of soil damp, and repairing any areas damaged as a result of construction operations or erosion. Maintenance shall also include, but is not limited to, watering, weeding, cultivating, removal of dead material, lawn mowing, fertilizing, and other necessary operations.

B. The Contractor shall maintain all proposed plantings until the date of final acceptance by the Owner.

4.2 WARRANTY

A. All grassed areas shall be guaranteed by the Contractor to be alive and healthy for a one year period from the date of substantial completion issued by the Owner. A final inspection with the Owner shall be conducted at the end of the warranty period to determine if any areas require replanting. At the end of the warranty period, the sod shall show evidence of rooting to the underlying soil and shall have no competitive weed growth from either the sod or from between the sod joints.

B. Any grassed area which is dead or not showing satisfactory growth shall be replaced at Contractor's expense at the end of warranty period. All replacements shall be of original quality and of a size equal to adjacent plants or trees of the same kind. Replacements required because of vandalism, excessive use or other causes beyond the control of the Contractor are not part of this contract.

4.3 ACCEPTANCE

A. Before acceptance of seeding performed for the establishment of permanent vegetation, Contractor will be required to produce a satisfactory stand of perennial grass whose root system shall be developed sufficiently to survive dry periods and winter weather and be capable of reestablishment in spring.

B. A minimum coverage of 80% density over 100% of the disturbed area is required for seeded areas before project acceptance. Sprig and sod areas shall have 95 % coverage over 100% of the disturbed area prior project acceptance.

END OF SECTION

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
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PAVING, GRADING & DRAINAGE DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 1'

C3.32

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

SWCD: COASTAL
PROJECT NAME: PORT WENTWORTH RECREATIONAL COMPLEX
CITY/COUNTY: PORT WENTWORTH/CHATHAM

ADDRESS: MONTEITH ROAD, PORT WENTWORTH, GA 31407
DATE ON PLANS: 8/4/25
NAME AND EMAIL OF PERSON FILLING OUT CHECKLIST: KEVIN M. SMITH smith.k@tandh.com

ATTACHED | YES

1. THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED. (THE COMPLETED CHECKLIST MUST BE SUBMITTED WITH THE ES&PC PLAN OR THE PLAN WILL NOT BE REVIEWED) (PERMIT IV.D.1 PG 31)

PLEASE FIND THE CURRENT STAND ALONE EROSION, SEDIMENTATION AND POLLUTION CONTROL CHECKLIST ATTACHED.

ALL | YES

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)

PLEASE FIND ON EACH SHEET OF THIS PLAN THE GSWCC LEVEL II CERTIFICATION NUMBER, SIGNATURE AND SEAL FOR MR. KEVIN M. SMITH, PE.

EC0.1 | YES

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 AND THE EPD APPROVAL LETTER. (A COPY OF THE THE WRITTEN APPROVAL BY EPD MUST BE ATTACHED TO THE PLAN FOR THE PLAN TO BE REVIEWED) (PERMITIV.D.3 PG 30)

TOTAL DISTURBANCE OF THE SITE DEVELOPMENT PROJECT IS 28.9 ACRES.

EC0.1 | YES

4. THE NAME AND PHONE NUMBER OF 24-HOUR LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS. (PERMIT II.B.1.c PG 12, II.B.2.e PG14, II.B.3.B PG 15)

OMAR SENATI MARTINEZ/ 912-966-7424
osenati@cityofportwentwoth.com

EC0.1 | YES

5. PROVIDE THE NAME, ADDRESS, EMAIL ADDRESS AND PHONE NUMBER OF PRIMARY PERMITTEE. (PERMIT II.B.1.c PG 12, II.B.2.e PG14, II.B.3.B PG 15)

CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21, PORT WENTWORTH, GA 31407
STEVE DAVIS
912-964-4739 - stevedavis@cityofportwentwoth.com

EC0.1 | YES

6. NOTE TOTAL AND DISTURBED ACREAGE OF THE PROJECT OR PHASE UNDER CONSTRUCTION. (PERMIT IV.D.2.c PG 30)

TOTAL PARCEL ACREAGE IS 204.20 ACRES.
TOTAL DISTURBED ACREAGE FOR THE PROJECT IS 28.9 ACRES.

EC0.1 | YES

7. PROVIDE THE GPS LOCATION OF THE CONSTRUCTION EXIT FOR THE SITE. GIVE THE LATITUDE AND LONGITUDE IN DECIMAL DEGREES. (PERMIT II.B.1.a PG 12. II.B.3.a PG 15)

CONSTRUCTION EXITS ARE LOCATED AT;
LAT: N 32° 11' 11" ; LONG: W 81° 12' 39.36" & LAT: N 32° 11' 00" ; LONG: W 81° 12' 39.15"

ALL | YES

8. INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS.

PLEASE FIND THE INITIAL DATE OF THE PLAN AND ALL REVISIONS ON THE COVER SHEET AS WELL AS EACH INDIVIDUAL SHEET OF THE PLAN.

EC0.1 | YES

9. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY AND EXISTING CONDITIONS. (PERMIT IV.D.2.a PG 29)

THE CONSTRUCTION ACTIVITY AT THE SITE WILL INVOLVE CLEARING AND GRADING, CONSTRUCTION OF WATER AND SEWER UTILITIES AND STORM DRAINAGE INFRASTRUCTURE FOR PROPOSED RECREATIONAL COMPLEX.
THE EXISTING CONDITIONS CONSIST OF A LAND OF TREES WITH WETLANDS AT IN THE PROPERTY. THE EXISTING ELEVATIONS RANGE FROM 19' TO 10' AT THE EDGE OF THE WETLANDS.

COVER | YES

10. PROVIDE VICINITY MAP SHOWING SITE'S RELATION TO SURROUNDING AREAS. INCLUDE DESIGNATION OF SPECIFIC PHASE, IF NECESSARY. (PERMIT IV.D.2.e PG 30)

PLEASE FIND THE VICINITY MAP LOCATED ON THE COVER SHEET OF THE PLANS.

EC0.1 - 0.3 | YES

11. IDENTIFY THE PROJECT RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, ETC. WHICH MAY BE AFFECTED. (PERMIT IV.D.2.f PG 30)

THIS PROJECT DISCHARGES TO THE CITY OF PORT WENTWORTH DRAINAGE SYSTEM AND THE RECEIVING WATER IS LITTLE HEARST CANAL.

EC0.1 | YES

12. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PART IV PAGE 19 OF THE PERMIT.

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

KEVIN M. SMITH, PE
GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION #0000012473
EXPIRATION DATE: 07/11/2027

EC0.1 | YES

13. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BMP'S AND SAMPLING TO MEET PERMIT REQUIREMENTS AS STATED ON PART IV PAGE 19 OF THE PERMIT.

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION & 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 GEORGIA 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.

KEVIN M. SMITH, PE
GSWCC LEVEL II DESIGN PROFESSIONAL
CERTIFICATION #0000012473
EXPIRATION DATE: 07/11/2027

EC0.1 | YES

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 BMP'S WITHIN 7 DAYS AFTER INSTALLATION. (PERMIT IV.A.5 PG25)

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

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

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

DATE OF INSPECTION: _____

I CERTIFY THE SITE WAS _____ WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

_____ _____ _____
GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN

_____

_____

_____

_____

THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

EC0.1 | YES

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." (PERMIT IV.(i) - (iv) PG 19-24)

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.

EC0.1 | YES

16. PROVIDE A DESCRIPTION OF ANY BUFFER ENCROACHMENTS AND INDICATE WHETHER A BUFFER VARIANCE IS REQUIRED.

THERE WILL BE NO BUFFER ENCROACHMENTS AS PART OF THE PROJECT THUS A BUFFER VARIANCE IS NOT REQUIRED.

EC0.1 | YES

17. CLEARLY NOTE THE STATEMENT THAT "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL." (PERMIT IV.C PG 26)

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

EC0.1 | YES

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. (PERMIT IV.D.3.c(1) PG 30)

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

EC0.1 | YES

19. CLEARLY NOTE THE 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."

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.

EC0.1 | YES

20. CLEARLY NOTE THE 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."

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.

EC0.1 | YES

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." (PERMIT IV.D.3.a (1) PG 28)

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

EC0.1 | YES

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 BMP'S THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT. (PART III.C.2.A - V. PG 19-21)

THE SITE DOES NOT DISCHARGE WITHIN 1 LINEAR MILE UPSTREAM OF AN IMPAIRED STREAM SEGMENT.

EC0.1 | YES

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. (PART III.C.1 PG 15)

N/A

EC0.1 | YES

24. BMP'S 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. (PERMIT IV.D.3.c.(6) PG 31)

NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

EC0.1 | YES

25. PROVIDE BMP'S FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS. (PERMIT IV.D.3.c.(5) PG 31)

NO PETROLEUM WILL BE STORED ON SITE. THE CONTRACTOR SHALL USE A MOBILE MAINTENANCE VEHICLE FOR FUELING AND MAINTENANCE OF EQUIPMENT. EMERGENCY PROCEDURES FOR SPILLS SHALL BE KEPT IN THE CONSTRUCTION TRAILER INCLUDING EMERGENCY CONTACT NUMBERS. ANY LEAKS OR SPILLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL AND REMEDIATE WITH ALL LOCAL, STATE AND DEFERRAL GUIDELINES, ORDINANCES AND LAWS.

REGULARLY INSPECT FOR CRACKS OR LEAKAGE IN CONTAINERS/TANKS.

SPILL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND MEAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- 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.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS, THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

EC0.1 | YES

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.

PERMANENT GRASSING AND LANDSCAPING WILL BE INSTALLED TO PROTECT EARTHEN AREAS FROM EROSION ONCE CONSTRUCTION IS COMPLETE. OUTLET PROTECTION WILL REMAIN ON STORMWATER PIPES AND RT-8 ON BOTH CONTROL STRCUTURES.

EC0.1 | YES

27. DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE. (PERMIT IV.D.3.c.(2) PG 30)

THE CONTRACTOR IS TO PROVIDE COVER FOR: BUILDING MATERIALS, PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZER, PESTICIDES, HERBICIDES, DETERGENTS, AND SANITARY WASTE THAT ARE STORED ON SITE BY USING PLASTIC SHEETING AS COVER AND PROTECTION FROM PRECIPITATION. THE ABOVE PRODUCTS WILL BE STORED IN A LOCATION THAT WOULD MINIMIZE THE RISK OF EXPOSURE TO STORM WATER.

EC0.1 | YES

28. DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES. (PERMIT IV PG 24)

POLLUTANT PREVENTION
THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, ADDITIVES FOR SOIL STABILIZATION, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, CONCRETE PRODUCTS, ASPHALT, TAR, LUMBER, , PAINTS/STAINS/FINISHING TREATMENTS, PAINT SOLVENTS, CLEANING SOLVENTS, PLASTICS AND METAL PIPES.
PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

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

PRODUCT SPECIFIC PRACTICES
FERTILIZER/HERBICIDES/PESTICIDES/DETERGENTS - THESE 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 SEDIMENTATION CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. DO NOT DISCHARGE WASH WATER INTO STORM WATER SYSTEM. INSTALL CURBS OR DIKES AROUND STORAGE AREA TO PROTECT AGAINST SPILLS. LIMIT USE OF DETERGENTS ON-SITE.

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 THE 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.

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.

ECO.1 | YES

29. DESCRIPTION AND CHART OR TIMELINE OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR THE MAJOR PORTIONS OF THE SITE (I.E., INITIAL PERIMETER AND SEDIMENT STORAGE BMP'S, CLEARING AND GRUBBING ACTIVITIES, EXCAVATION ACTIVITIES, UTILITY ACTIVITIES, TEMPORARY AND FINAL STABILIZATION). (PERMIT IV.D.2.b PG 27)

A SPECIFIED WORK SCHEDULE IS NEEDED TO COORDINATE THE TIMING OF LAND DISTURBING ACTIVITIES WITH THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES.

THE PURPOSE OF THE SCHEDULE IS TO REDUCE ON-SITE EROSION AND OFF-SITE SEDIMENTATION BY PERFORMING LAND DISTURBING ACTIVITIES AND INSTALLING EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH A PLANNED SCHEDULE.

IN PLANNING CONSTRUCTION WORK, IT MAY BE HELPFUL TO OUTLINE ALL LAND DISTURBING ACTIVITIES NECESSARY TO COMPLETE THE PROPOSED PROJECT. THEN LIST ALL PRACTICES NEEDED TO CONTROL EROSION AND SEDIMENTATION ON THE SITE. THESE TWO LISTS CAN THEN BE COMBINED IN LOGICAL ORDER TO PROVIDE A PRACTICAL AND EFFECTIVE CONSTRUCTION SEQUENCE SCHEDULE THAT BECOMES PART OF THE EROSION AND SEDIMENTATION CONTROL PLAN.

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

ES & PC NOTES

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

EC0.1

Z:\25412\civil\plot\[NONE]RING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EC-01.DWG - Aug 5, 2025 - 5:08 PM

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

SWCD: COASTAL
PROJECT NAME: PORT WENTWORTH RECREATIONAL COMPLEX
CITY/COUNTY: SAVANNAH/CHATHAM

ADDRESS: MONTEITH ROAD, PORT WENTWORTH, GA 31407
DATE ON PLANS:8/4/25
NAME AND EMAIL OF PERSON FILLING OUT CHECKLIST: KEVIN M. SMITH smith.k@tandh.com

CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
1. OBTAIN ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	
2. FLAG THE WORK LIMITS AND MARK THE TREES AND BUFFER AREAS FOR PROTECTION.	
3. HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.	
4. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS.	FIRST LAND DISTURBING ACTIVITY - STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE.
5. SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SEDIMENT FENCES, AND OUTLET PROTECTION.	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
6. RUNOFF CONTROL - DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION.	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF-CONTROL MEASURES DURING GRADING.
7. RUNOFF CONVEYANCE SYSTEM- STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	WHERE NECESSARY, STABILIZE STREAM BANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF- CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
8. LAND CLEARING AND GRADING - SITE PREPARATION CUTTING, FILLING AND GRADING, SEDIMENTATION TRAPS, BARRIERS, DIVERSIONS, DRAINS,SURFACE ROUGHENING.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF - CONTROL MEASURES ARE INSTALLED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
9. SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
10. BUILDING CONSTRUCTION- BUILDINGS UTILITIES, PAVING.	INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
11. LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING RIPRAP.	LAST CONSTRUCTION PHASE--STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.

CONSTRUCTION SCHEDULE

ACTIVITY	MONTH 1	3	5	7	9	11
PERIMETER BMPS	■					
SITE CLEARING	■	■				
TEMPORARY SEDIMENT CONTROL BMPS	■					
SITE GRADING		■	■	■		
TEMPORARY GRASSING		■	■	■		
UTILITY INSTALLATION		■	■	■		
ROAD CONSTRUCTION			■	■	■	
SITE PAVING				■	■	
BUILDING CONSTRUCTION			■	■	■	■
PERMANENT GRASSING					■	■
FINAL STABILIZATION/ BMP REMOVAL						■
BMP MAINTENANCE	■					

ECO.2 | YES — 30. PROVIDE COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITEE OR TERTIARY PERMITTEE. (PART IV.D.4.a PG 31-33)

INSPECTIONS AND RECORD KEEPING

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 OF THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT, (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 AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. 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 PERSONAL (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 OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY 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 PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.e. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE 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.THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.4.B.(5). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.
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 SITE 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 BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY AN INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT.

AN "EROSION & SEDIMENTATION INSPECTION AND MAINTENANCE REPORT" SHEET IS ATTACHED. SHOULD THE INSPECTION REVEAL ANY DEFICIENCIES, A COPY SHALL BE SENT TO:

JOHN V. GIORDANO, P.E.
THOMAS AND HUTTON
P.O. BOX 2727
SAVANNAH, GEORGIA 31402
(912) 721-4054

ECO.2 | YES — 31. PROVIDE COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS. (PART IV.D.6. PG 35-37 & PART IV.E PG 37)

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

a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION;(a) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (b) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION FOR THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION FOR THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2) THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX b. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

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

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

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES
2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E. OF THE PERMIT.

c. SAMPLING POINTS: THERE WILL BE 2 STORM WATER SAMPLING LOCATIONS. THE SAMPLING LOCATION WILL BE THE UPSTREAM AND DOWNSTREAM POINTS, PER NPDES PERMIT GAR 100001, FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST COMPLETE ALL SAMPLING.

1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEE WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

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

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

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

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

E. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

F. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

G. PERMITTEES 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 AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

H. 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 CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

d. SAMPLING FREQUENCY

1. THE PRIMARY PERMITTEE WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEE WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES 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 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 OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THE 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 LOCATIONS, 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.

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 USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL SAMPLING REPORT 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 NAMES(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 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.

EPD OFFICE: COASTAL DISTRICT - BRUNSWICK OFFICE
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
400 COMMERCE CENTER DRIVE
BRUNSWICK, GA 31523-8687
912-264-7284

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

ES & PC NOTES

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

EC0.2

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

SWCD: COASTAL
PROJECT NAME: PORT WENTWORTH RECREATIONAL COMPLEX
CITY/COUNTY: SAVANNAH/CHATHAM

ADDRESS: MONTEITH ROAD, PORT WENTWORTH, GA 31407
DATE ON PLANS: 8/4/25
NAME AND EMAIL OF PERSON FILLING OUT CHECKLIST: KEVIN M. SMITH smith.k@tandh.com

ECO.3 | YES

32. PROVIDE COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F PG 38 OF THE PERMIT.

RETENTION OF RECORDS

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 NOTICE OF TERMINATION IS SUBMITTED IN ACCORDANCE WITH PART VI.

- COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD.
- A COPY OF THE ES&PC PLAN REQUIRED IN PERMIT No. GAR 100001.
- THE DESIGN PROFESSIONALS REPORT OF THE THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5 IN PERMIT No. GAR 100001.
- COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD.
- A COPY OF THE ES&PC PLAN REQUIRED IN PERMIT NO. GAR 100001.
- THE DESIGN PROFESSIONALS REPORT OF THE THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5 IN PERMIT NO. GAR 100001.
- A COPY OF ALL SAMPLING INFORMATION , RESULTS, AND REPORTS REQUIRED BY IN PERMIT NO. GAR 100001.
- A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF PERMIT NO. GAR 100001.
- A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 IN PERMIT NO. GAR 100001.
- DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). IN PERMIT NO. GAR 100001.

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 NOTICE OF TERMINATION IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE GAR100001. 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.

ECO.3 | YES

33. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION. (PERMIT IV.D.6.A - C. PG 33-35)

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT EPA 833-B-92-001.

EC0.3 | YES

34. APPENDIX B RATIONALE FOR NTU VALUES AT ALL OUTFALL SAMPLING POINTS WHERE APPLICABLE. (PERMIT IV.D.6.A.(3) PG 33)

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATIONS. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 50, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 58 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF LESS THAN 4.99 SQUARE MILES AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES. APPENDIX B WAS USED TO DETERMINE THE NTU ALLOWABLE AND DOWNSTREAM SAMPLING WILL BE PERFORMED FOR THIS PROJECT.

Appendix B
Nephelometric Turbidity Unit (NTU) Table
Warm Water (Supporting Warm Water Fisheries)

Surface Water Drainage Area, square miles

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

SAMPLING POINT SUMMARY

SAMPLING POINT	PROJECT AREA (AC.)	SURFACE WATER DRAINAGE AREA (SQ. MI.)	SAMPLING TYPE	RCEIVING WATER	NTU VALUE
1	58	0-4.99	OUTFALL	WARM	50
2	58	0-4.99	OUTFALL	WARM	50

EC1.1 - 3.1 | YES

35. DELINEATE ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED.(PERMIT IV.D.6.A.(1) PG 33)

PLEASE SEE PLAN SHEETS FOR DELINEATION OF SAMPLING LOCATIONS, PERENNIAL, INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED.

ECO.3 | YES

36. A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE INCLUDING (1) INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S, (2) INTERMEDIATE GRADING AND DRAINAGE BMP'S, AND (3) FINAL BMP'S. FOR CONSTRUCTION SITES WHERE THERE WILL BE NO MASS GRADING AND THE SEDIMENT STORAGE REQUIREMENTS AND INITIAL PERIMETER CONTROL BMP'S, INTERMEDIATE GRADING AND DRAINAGE BMP'S, AND FINAL BMP'S ARE THE SAME, THE PLAN MAY COMBINE ALL OF THE BMP'S INTO A SINGLE PHASE. (PERMIT IV.D.3. PG 30)

INITIAL PHASE - THE INITIAL PHASE OF THE ES&PC PLAN WILL INCLUDE THE INSTALLATION OF THE CONSTRUCTION EXIT AND SILT FENCE. TYPE NS AND TYPE S SILT FENCE WILL BE USED. STORM POND AND DITCHES WILL BE CONSTRUCTED AND MAINTAINED DURING SITE CLEARING. DUST CONTROL AND MULCHING WILL BE IMPLEMENTED AS NECESSARY.

INTERMEDIATE PHASE - THE INTERMEDIATE GRADING AND DRAINAGE BMP'S WILL INCLUDE THE MAINTENANCE OF ALL SILT FENCE. STORM DRAIN OUTLET PROTECTION WILL BE INSTALLED AT DISCHARGE LOCATIONS. DUST CONTROL, MULCHING, AND TEMPORARY SEEDING WILL BE IMPLEMENTED AS NECESSARY.

FINAL PHASE - THE FINAL GRADING AND DRAINAGE BMP'S WILL INCLUDE THE MAINTENANCE OF ALL SILT FENCE. STORM DRAIN OUTLET PROTECTION WILL BE MAINTAINED AT DISCHARGE LOCATIONS. PERMANENT SEEDING WILL BE IMPLEMENTED FOR SITE STABILIZATION. ONCE THE SITE IS STABILIZED, ALL TEMPORARY BMPS ARE TO BE REMOVED.

ALL | YES

37. GRAPHIC SCALE AND NORTH ARROW.

GRAPHIC SCALE AND NORTH ARROW ARE LOCATED ON EACH PLAN SHEET.

EC1.1 - 3.1 | YES

38. 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% ROLLING 2 - 8% STEEP 8% +	0.5 OR 1 1 OR 2 2.5 OR 10

EXISTING AND PROPOSED CONTOURS ARE PROVIDED ON ALL ES&PC PLANS.EXISTING AND PROPOSED CONTOURS ARE PROVIDED AT 1' INTERVALS.CONTOURS ARE BASED ON NAVD 88 DATUM.

EC1.1 - 3.1 | YES

39. USE OF ALTERNATIVE BMP'S WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMP'S 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. (PERMIT IV.D.3.A.(4) PG 32)

ALTERNATIVE BMPS WILL NOT BE USED AS PART OF THIS PROJECT.

ECO.3 | YES

40. 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.

ALTERNATIVE BMPS WILL NOT BE USED AS PART OF THIS PROJECT.

ECO.3 | YES

41. 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. (PERMIT IV.D.E PG 30)

PLEASE SEE THE PLAN FOR THE DELINEATION OF ALL BUFFERS ON THE PLANS.

ALL | YES

42. DELINEATION OF ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE.

ALL WETLANDS AND STATE WATERS WITHIN 200 FEET OF THE PROJECT SITE ARE DELINEATED ON THE PLANS.

ATTACHED | YES

43. DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE. (PERMIT IV.D.2.E PG 30)

ALL CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE ARE CLEARLY DELINEATED IN THE POST DEVELOPMENT EXHIBIT AS PART OF THE ATTACHED STORM WATER REPORT.

ATTACHED | YES

44. PROVIDE HYDROLOGY STUDY AND MAPS OF DRAINAGE BASINS FOR BOTH PRE- AND POST-DEVELOPED CONDITIONS.

PLEASE SEE ATTACHED REPORT WITH DETAILS FOR PRE AND POST DEVELOPMENT HYDROLOGY.

ECO.3 | YES

45. AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. (PERMIT IV.D.2.D. PG 30)

RUNOFF COEFFICIENT: PRE-CONSTRUCTION CN = 65
POST-CONSTRUCTION CN = 87

ECO.3 | YES

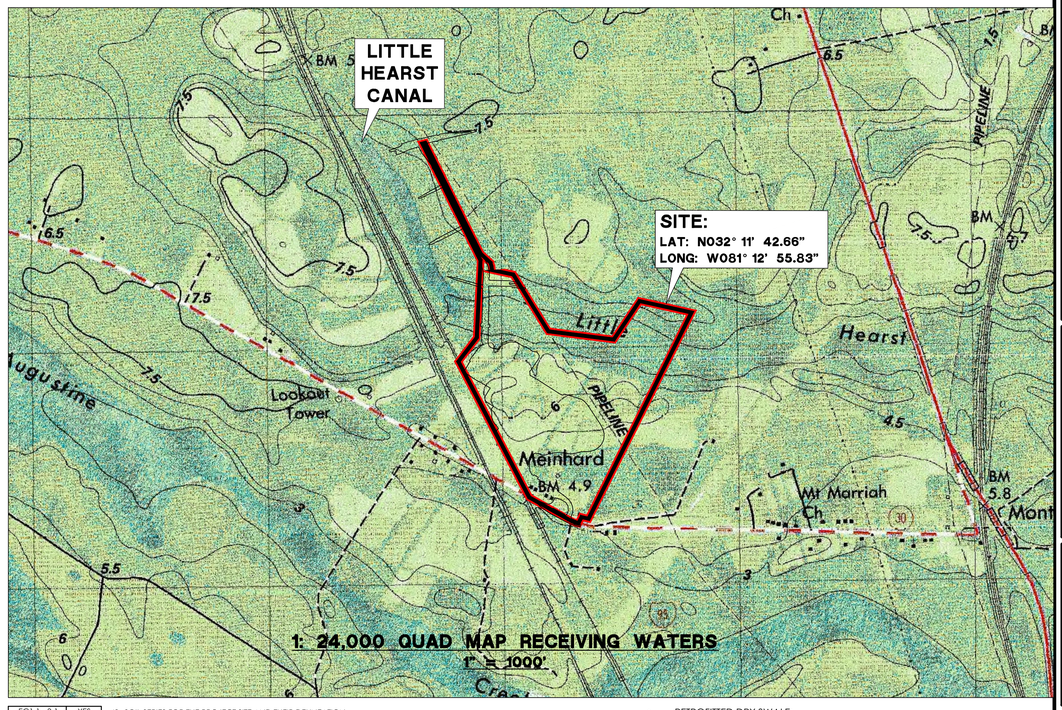
46. STORM-DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION. IDENTIFY/DELINEATE ALL STORM WATER DISCHARGE POINTS.

THE RIP-RAP CHARTS CONTAIN THE STORMWATER VELOCITIES. THE STORMWATER DISCHARGE POINTS ARE INDICATED ON THE PLANS.

EC1.1 - 3.1 | YES

47. THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION.

PLEASE SEE THE PLAN FOR THE DELINEATION OF THE LIMITS OF DISTURBANCE. INITIAL PHASE DISTURBANCE, DISTURBANCE FOR INTERMEDIATE AND FINAL PHASES IS 58 ACRES.



EC1.1 - 3.1 | YES

48. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION.

SOILS ARE DELINEATED ON THE EROSION CONTROL SHEETS. THE SOILS FOR THE SITE ARE ARE LISTED IN THE TABLE BELOW.

SOIL SERIES LEGEND

SOIL SERIES	SOIL DESCRIPTION
Cc	CAPE FEAR SOILS
Cx	CRAVEN LOAMY FINE SAND
Oj	OCILLA COMPLEX
Ok	OGEECHEE LOAMY FINE SAND
Ol	OLUSTEE FINE SAND
Pl	PELHAM LOAMY SAND
Pn	POOLER FINE SANDY LOAM
W	WATER
Waf	WAHEE SANDY LOAM

EC1.1 - 3.1 | YES

49. PROVIDE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING A TEMPORARY SEDIMENT BASIN, RETROFITTED DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED. A WRITTEN JUSTIFICATION EXPLAINING THE DECISION TO USE EQUIVALENT CONTROLS WHEN A SEDIMENT BASIN IS NOT ATTAINABLE MUST BE INCLUDED IN THE PLAN FOR EACH COMMON DRAINAGE LOCATION IN WHICH A SEDIMENT BASIN IS NOT PROVIDED. A WRITTEN JUSTIFICATION AS TO WHY 67 CUBIC YARDS OF STORAGE IS NOT ATTAINABLE MUST ALSO BE GIVEN. WORKSHEETS FROM THE MANUAL MUST BE INCLUDED FOR STRUCTURAL BMPs AND ALL CALCULATIONS USED BY THE STORAGE DESIGN PROFESSIONAL TO OBTAIN THE REQUIRED SEDIMENT STORAGE 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 FEASIBLE, A WRITTEN JUSTIFICATION EXPLAINING THIS DECISION MUST BE INCLUDED IN THE PLAN. (PERMIT IV.D.3.a.(3) PG 31)

SEDIMENT STORAGE - THE PERMIT REQUIRES A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED.

SEDIMENT STORAGE REQUIRED
DRAINAGE AREA ACREAGE = 58 ac
REQUIRED ON SITE SEDIMENT STORAGE=
58 ac X 67 cy/ac = 3,886 cy

- PERIMETER SILT FENCE:

LF OF SILT FENCE FOR STORAGE: 20,728.35 LF @ 7.5 CF OF STORAGE /LF
20,728.35 LF X 7.5 CF/LF = 155,462.63 CF OF SEDIMENT STORAGE
155,462.63 CF X 0.037 CY/CF = 5,752.12 CY OF STORAGE PROVIDED

- RETROFITTED DRY SWALE:

SWALE 1: 2738.19 CF / 27 CF/CY = 101.41 CY
SWALE 2: 3115.62 CF / 27 CF/CY = 115.39 CY
SWALE 3: 1418.44 CF / 27 CF/CY = 52.53 CY
SWALE 4: 985.38 CF / 27 CF/CY = 36.49 CY
SWALE 5: 1055.14 CF / 27 CF/CY = 39.08 CY
SWALE 6: 1055.14 CF / 27 CF/CY = 39.08 CY
SWALE 7: 736.24 CF / 27 CF/CY = 27.26 CY
SWALE 8: 657.97 CF / 27 CF/CY = 24.37 CY
TOTAL STORAGE PROVIDED: 435.61 CY

IN ALL PHASES STORAGE PROVIDED
EXCEEDS STORAGE REQUIRED (3,886 cy)

EC1.1 - 3.1 | YES

50. LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND.

PLEASE SEE THE PLAN SHEETS FOR THE LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA USING THE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6 WITH ACCOMPANYING LEGEND.

EC4.1-4.2 | YES

51. PROVIDE DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

PLEASE SEE THE DETAIL SHEET FOR DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES WITH SPECIFICATIONS MEETING THE GUIDELINES SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA

EC1.1 - 3.1 | YES

52. PROVIDE VEGETATIVE PLAN, NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES. INCLUDE SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, LIME AND MULCHING RATES. VEGETATIVE PLAN SHALL BE SITE SPECIFIC FOR APPROPRIATE TIME OF YEAR THAT SEEDING WILL TAKE PLACE AND FOR THE APPROPRIATE GEOGRAPHIC REGION OF GEORGIA.

PLEASE SEE THE PLAN AND DETAIL SHEETS FOR THE VEGETATIVE PLAN NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES INCLUDING SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, LIME AND MULCHING RATES. THIS PLAN IS SPECIFIC TO THE SITE AND APPROPRIATE FOR TIME OF YEAR THAT SEEDING WILL TAKE PLACE AND FOR THE APPROPRIATE GEOGRAPHIC REGION OF GEORGIA.

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ES & PC NOTES

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 1 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

EC0.3

Z:\25412\5-25412.0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EC1.dwg - Aug 5, 2025 - 3:08 PM

Z:\25412\0029\ENGINEER\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412-0029 - EC.DWG - Aug 3, 2025 - 3:58 PM

BID SET - NOT FOR CONSTRUCTION



NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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OVERALL ES & PC - INITIAL PHASE

PHASE 2

PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

100 0 50 100
GRAPHIC SCALE:
1 INCH = 100 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 100'

EC1.0

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

Z:\SAS\25412.0029\ENGINEER\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EC-PH1.DWG - Aug 2, 2025 - 5:18 PM

BID SET - NOT FOR CONSTRUCTION

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ES & PC - INITIAL PHASE

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

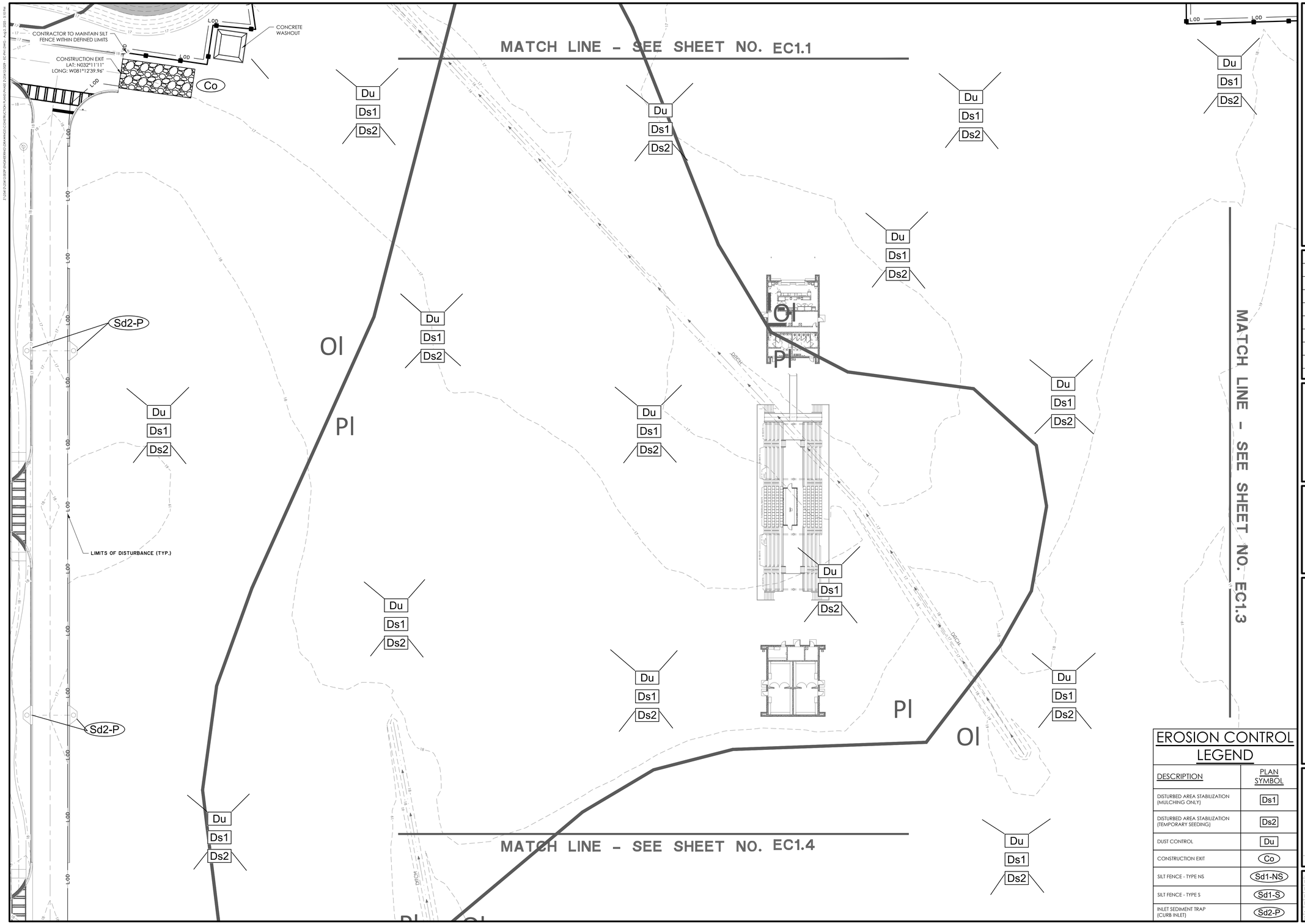
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC1.1

WETLAND BUFFER (TYP)
25'
BENCHMARK ELEVATION = 16.04' LIVE OAK
WETLAND BUFFER (TYP)
FRESHWATER WETLAND (TYP)
ZONE X
ZONE X (0.2%)
ZONE AE
ZONE AE (EL 10.25')
ZONE AE
GAS
SINGLE ROW SILT FENCE
Sd1-NS
LIMITS OF DISTURBANCE (TYP.)
LOD
Du
Ds1
Ds2
Pl
Ol
EXISTING POND 1
TOP: 17.5
NWL: 13.0
BOTTOM: 3.0
10-YEAR: 15.83
25-YEAR: 16.20
50-YEAR: 16.49
100-YEAR: 16.74
SEE 25412.0029 - PORT WENTWORTH RECREATIONAL COMPLEX PHASE 1B PLANS FOR OUTFALL
CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS
CONSTRUCTION EXIT
LAT: N032°11'11"
LONG: W081°12'39.96"
Co
CONCRETE WASHOUT
APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W
MATCH LINE - SEE SHEET NO. EC1.2



SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

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ES & PC - INITIAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

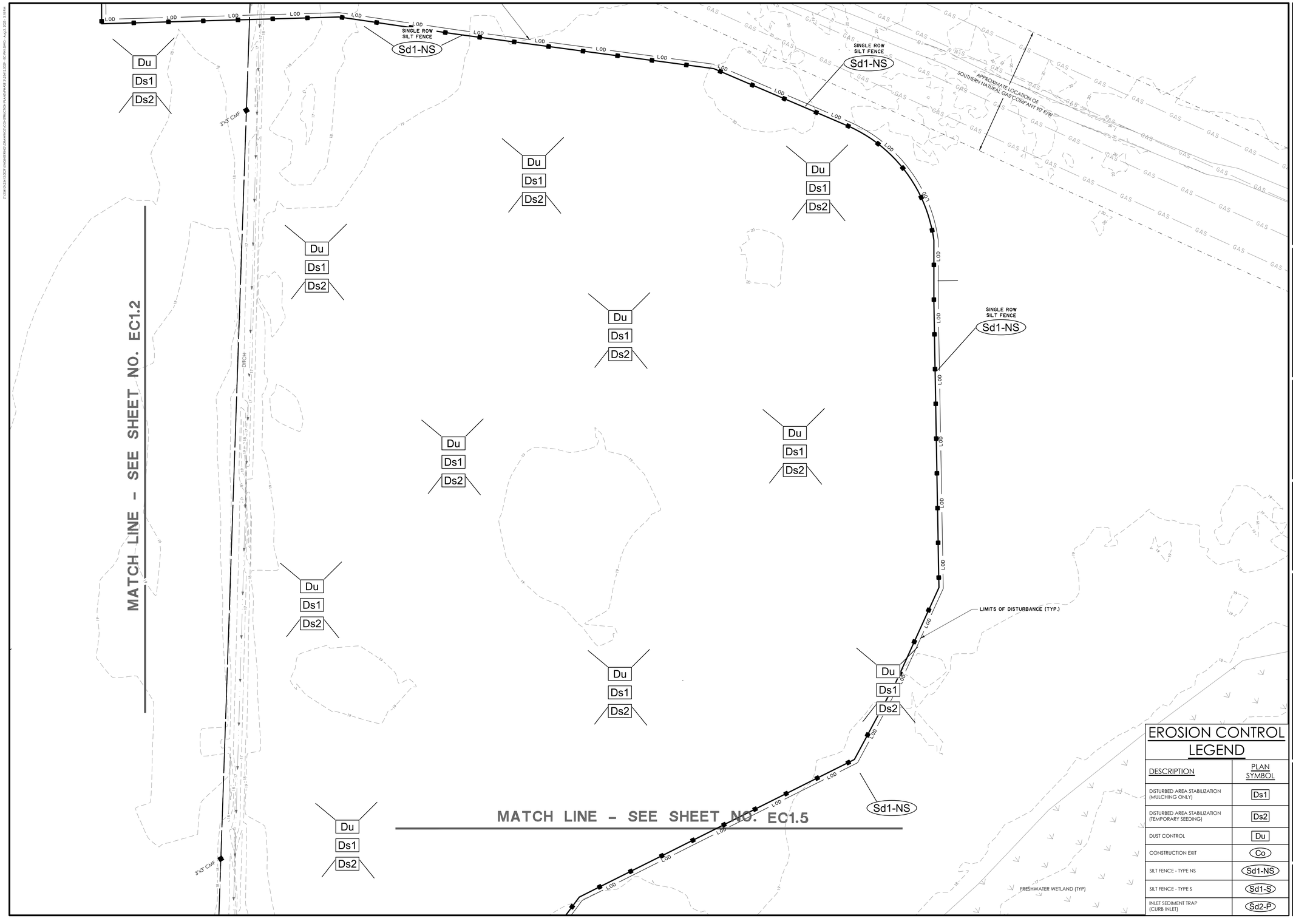
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC1.2



SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

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ES & PC - INITIAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

GRAPHIC SCALE:
1 INCH = 30 FEET
30 0 15 30

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC1.3

Z:\SAC\25412.0029\ENGINEER\CAD\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EC-PH1.DWG - Aug 5, 2025 - 5:10 PM

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\Phase 2\25412.0029 - EC-PH 2.DWG - Aug 13, 2025 - 5:10 PM

MATCH LINE - SEE SHEET NO. EC1.2

MATCH LINE - SEE SHEET NO. EC1.5

Pl

Ol

DITCH

Du / Ds1 / Ds2

Sd2-P

Sd1-S

Co

LIMITS OF DISTURBANCE (TYP.)

LOD

CONCRETE WASHOUT

CONSTRUCTION EXIT
LAT: N032°11'00"
LONG: W081°12'38.15"

5'x20' CLOE

DOUBLE ROW SILT FENCE

CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS

EXISTING POND 2
TOP: 19.0
NWL: 14.0
BOTTOM: 7.0
10-YEAR: 16.26
25-YEAR: 16.94
50-YEAR: 17.52
100-YEAR: 18.21

SEE 25412.0029 - PORT WENTWORTH RECREATIONAL COMPLEX PHASE 1B PLANS FOR OUTFALL

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

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ES & PC - INITIAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC1.4

Z:\25412\0025\1-ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EC.PH1.DWG - Aug 2, 2025 - 5:11 PM

MATCH LINE - SEE SHEET NO. EC1.3

MATCH LINE - SEE SHEET NO. EC1.4

Du
Ds1
Ds2

Sd1-NS

LOD

LIMITS OF DISTURBANCE (TYP.)

DOUBLE ROW SILT FENCE
Sd1-S

3'x3' CMP

CONCRETE WASHOUT
Co

CONSTRUCTION EXIT
LAT: N032°11'00"
LONG: W081°12'38.15"

CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS

FRESHWATER WETLAND (TYP)

Ok

Ol

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

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ES & PC - INITIAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC1.5

Z:\25412\0029\ENGINEER\DRAWINGS\CONSTRUCTION PLANS\Phase 2\25412.0029 - EC.PHZ.DWG - Aug 8, 2025 - 5:11 PM

BID SET - NOT FOR CONSTRUCTION

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

EC2.1

EC2.2

EC2.3

EC2.4

EC2.5

Cx Pl Ol

Ol

Pl Ol

Ol Ok W

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

Ol Ok

Pl Ol

SEABOARD AIR LINE RAILWAY
(VARIABLE PRIVATE RIGHT-OF-WAY)

MONTEITH ROAD
(VARIABLE PUBLIC RIGHT-OF-WAY)

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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OVERALL ES & PC - INTERMEDIATE PHASE

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

100 0 50 100
GRAPHIC SCALE:
1 INCH = 100 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 100'

EC2.0

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

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WETLAND BUFFER (TYP)

BENCHMARK ELEVATION = 16.74 FT

LIVE OAK

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

ZONE X

ZONE X (0.2%)

ZONE AE

ZONE AE (10.2%)

SINGLE ROW SILT FENCE
Sd1-NS

LIMITS OF DISTURBANCE (TYP.)

LOD

Du

Ds1

Ds2

Sd2-F

Pl

Ol

EXISTING POND 1
TOP: 17.5
NWL: 13.0
BOTTOM: 3.0
10-YEAR: 15.83
25-YEAR: 16.20
50-YEAR: 16.49
100-YEAR: 16.74

SEE 25412.0029 - PORT WENTWORTH RECREATIONAL COMPLEX PHASE 1B PLANS FOR OUTFALL

CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS

CONCRETE WASHOUT

CONSTRUCTION EXIT
LAT: N032°11'11"
LONG: W081°12'39.96"

Co

APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W

12"W

MATCH LINE - SEE SHEET NO. EC2.2

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

THOMAS & HUTTON
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ES & PC - INTERMEDIATE PHASE

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

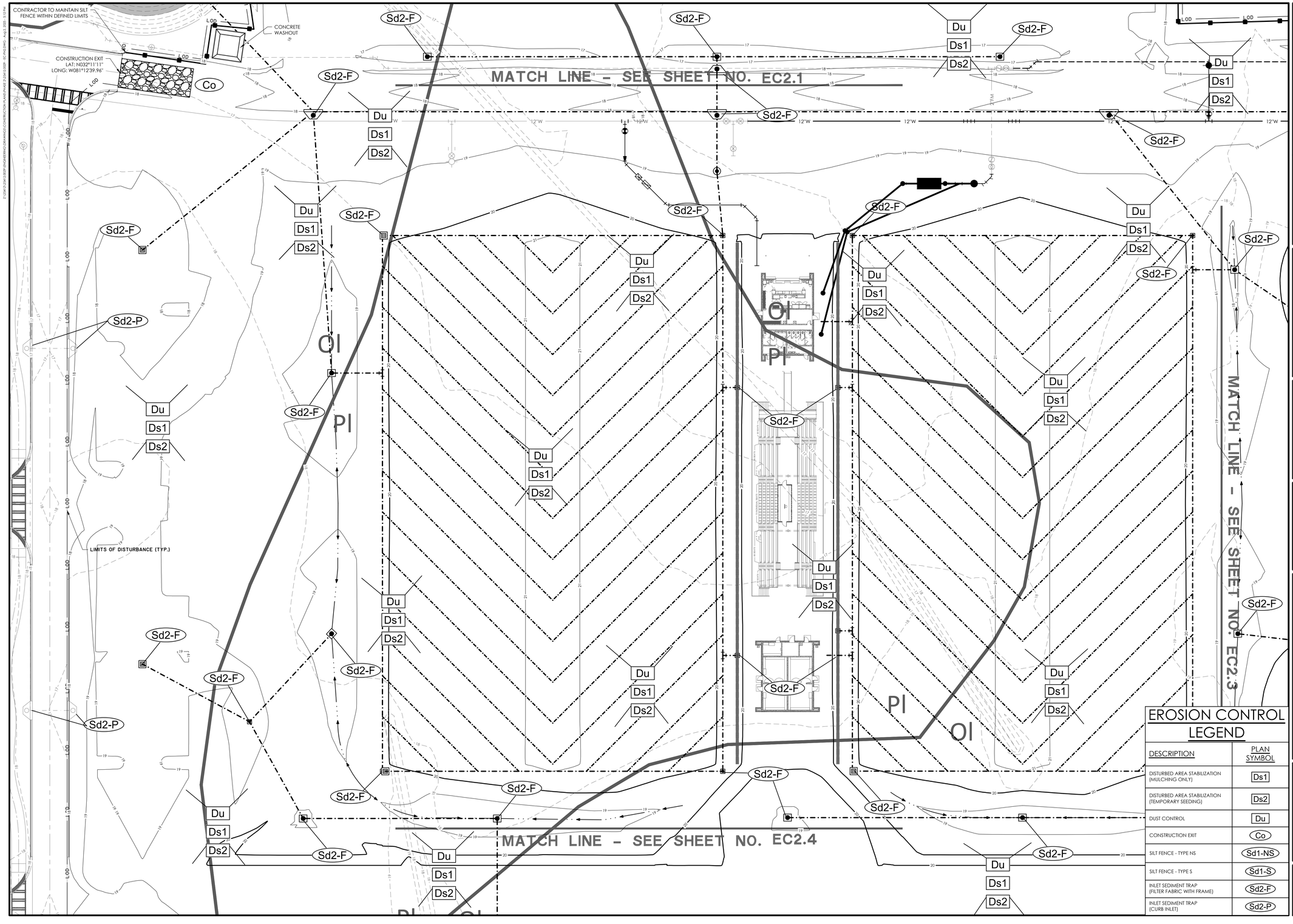
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE: 1 INCH = 30 FEET (30 0 15 30)

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC2.1



SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	----
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

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ES & PC - INTERMEDIATE PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

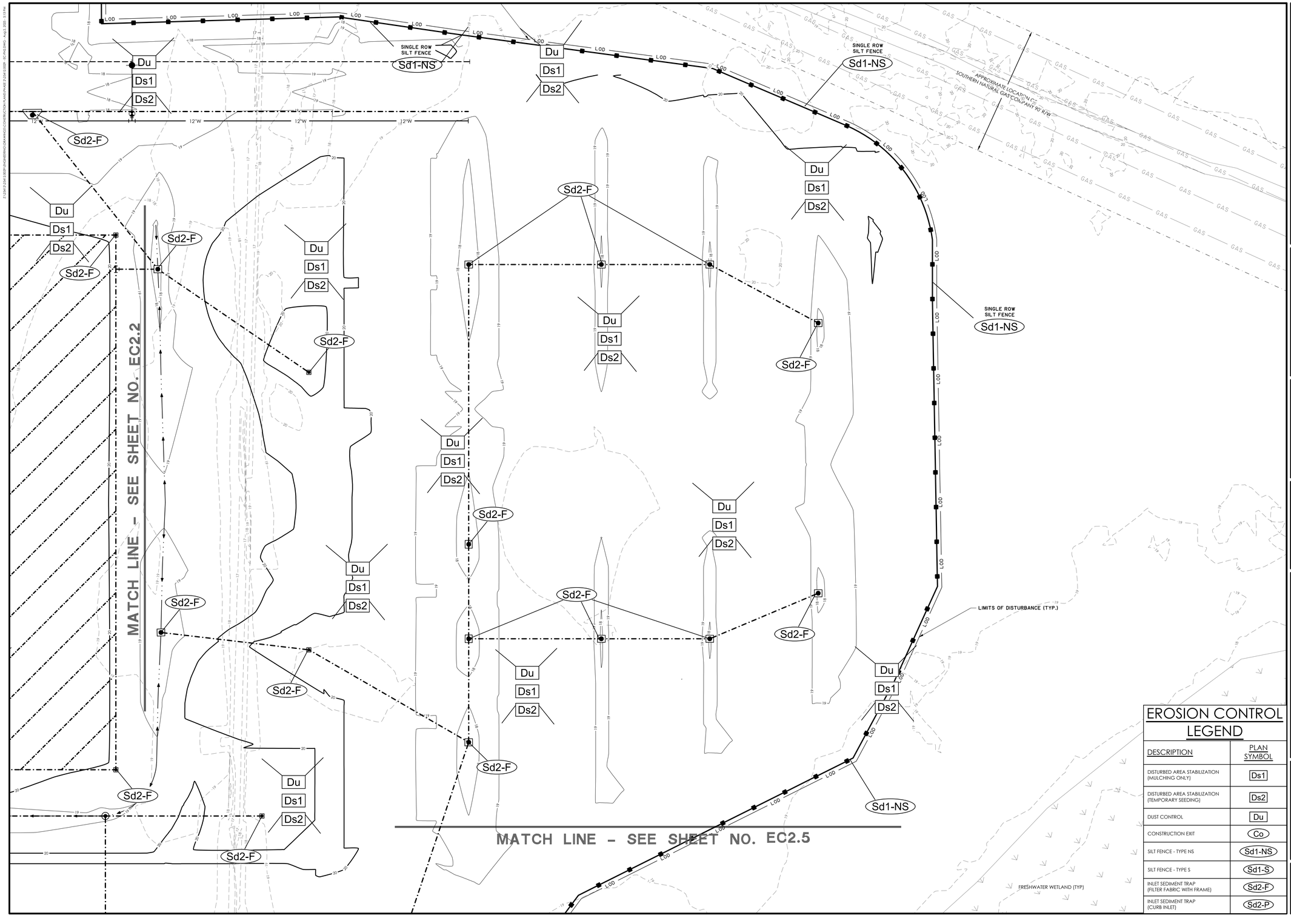
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC2.2



SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

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ES & PC - INTERMEDIATE PHASE

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 NORTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

EROSION CONTROL LEGEND

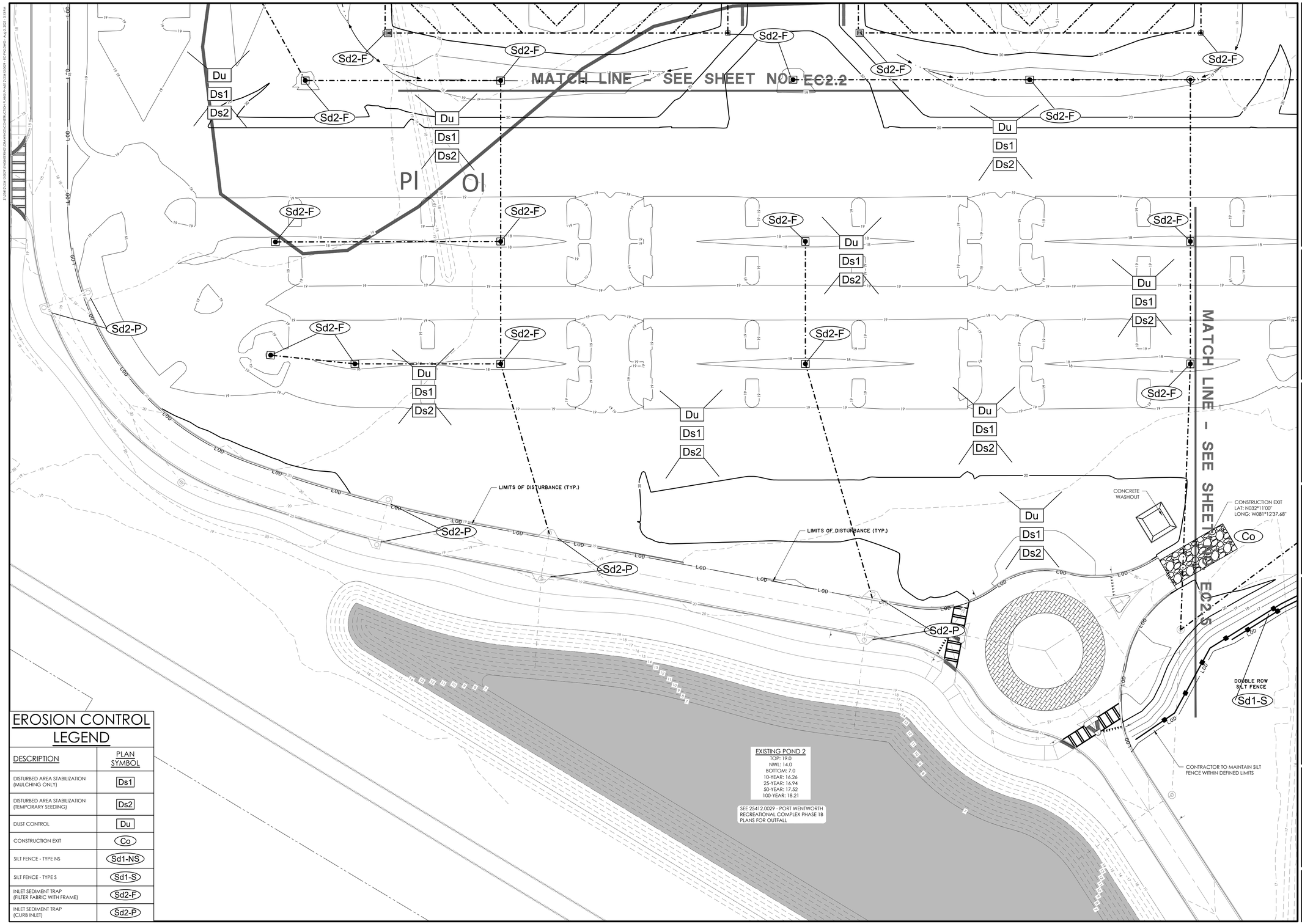
DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC2.3



EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	----
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ES & PC - INTERMEDIATE PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET
30 0 15 30

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC2.4

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412-0029 - EC.DWG - Aug 2, 2025 - 5:13 PM

MATCH LINE - SEE SHEET NO. EC2.3

MATCH LINE - SEE SHEET NO. EC2.4

Sd2-F
Sd2-P
Sd1-NS
Sd1-S
Du
Ds1
Ds2
Co
L.O.D
LIMITS OF DISTURBANCE (TYP.)
DOUBLE ROW SILT FENCE
CONCRETE WASHOUT
CONSTRUCTION EXIT
LAT: N032°11'00"
LONG: W081°12'37.68"
CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS
FRESHWATER WETLAND (TYP)
Ok
Ol

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P

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ES & PC - INTERMEDIATE PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC2.5

Z:\25412\0029\ENGINEER\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EC.DWG - Aug 5, 2025 - 5:14 PM

BID SET - NOT FOR CONSTRUCTION

EC3.1

EC3.2

EC3.3

EC3.4

EC3.5

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

FRESHWATER WETLAND (TYP)

SEABOARD AIR LINE RAILWAY
(VARIABLE PRIVATE RIGHT-OF-WAY)

MONTEITH ROAD
(VARIABLE PUBLIC RIGHT-OF-WAY)

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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OVERALL ES & PC - FINAL PHASE

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

100 0 50 100
GRAPHIC SCALE:
1 INCH = 100 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 100'

EC3.0

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P
INLET SEDIMENT TRAP (GRAVEL)	Sd2-G

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	---
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ES & PC - FINAL PHASE

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE: 1 INCH = 30 FEET (30 0 15 30)

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC3.1

EXISTING POND 1
TOP: 17.5
NWL: 13.0
BOTTOM: 3.0
10-YEAR: 15.83
25-YEAR: 16.20
50-YEAR: 16.49
100-YEAR: 16.74

SEE 25412.0029 - PORT WENTWORTH RECREATIONAL COMPLEX PHASE 1B PLANS FOR OUTFALL

MATCH LINE - SEE SHEET NO. EC3.2

APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W

BENCHMARK: 8" LIVE OAK ELEV=14.11 (NAVD88)

WETLAND BUFFER (TYP)

FRESHWATER WETLAND (TYP)

ZONE X

ZONE X (0.2%)

ZONE AE

ZONE X (0.2%) ZONE AE

SINGLE ROW SILT FENCE Sd1-NS

LIMITS OF DISTURBANCE (TYP.)

CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS

CONCRETE WASHOUT

CONSTRUCTION EXIT
LAT: N032°11'11"
LONG: W081°12'39.96"

Du Ds3 Sd2-F Sd2-P Co Pl Ol

Z:\25412\Civil\WORKING\EROSION CONTROL\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412-0029 - EC-PHASE2.dwg, Aug 8, 2025 - 5:15pm

CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS

CONCRETE WASHOUT

CONSTRUCTION EXIT
LAT: N032°11'11"
LONG: W081°12'39.96"

LIMITS OF DISTURBANCE (TYP.)

MATCH LINE - SEE SHEET NO. EC3.1

MATCH LINE - SEE SHEET NO. EC3.3

MATCH LINE - SEE SHEET NO. EC3.4

Co

Du
Ds3

Sd2-F

Sd2-P

Sd2-G

Ol

Pl

12"W

LOD

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	----
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

BID SET - NOT FOR CONSTRUCTION

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ES & PC - FINAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P
INLET SEDIMENT TRAP (GRAVEL)	Sd2-G

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC3.2

BID SET - NOT FOR CONSTRUCTION

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	----
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ES & PC - FINAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC3.3

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P
INLET SEDIMENT TRAP (GRAVEL)	Sd2-G

MATCH LINE - SEE SHEET NO. EC3.2
MATCH LINE - SEE SHEET NO. EC3.5

SINGLE ROW SILT FENCE
LIMITS OF DISTURBANCE (TYP.)
PROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W
FRESHWATER WETLAND (TYP)

BID SET - NOT FOR CONSTRUCTION

MATCH LINE - SEE SHEET NO. EC3.2

MATCH LINE - SEE SHEET NO. EC3.5

PI OI

Du Ds3

Sd2-F

Sd2-P

Sd1-S

Co

LOD

LIMITS OF DISTURBANCE (TYP.)

CONCRETE WASHOUT

CONSTRUCTION EXIT
LAT: N032°11'00"
LONG: W081°12'37.72"

DOUBLE ROW SILT FENCE

CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS

EXISTING POND 2
TOP: 19.0
NWL: 14.0
BOTTOM: 7.0
10-YEAR: 16.26
25-YEAR: 16.94
50-YEAR: 17.52
100-YEAR: 18.21

SEE 25412.0029 - PORT WENTWORTH RECREATIONAL COMPLEX PHASE 1B PLANS FOR OUTFALL

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P
INLET SEDIMENT TRAP (GRAVEL)	Sd2-G

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	----
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ES & PC - FINAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC3.4

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\Final\ 2-2-24\2-2025 - EC-PH1.DWG - Aug 13, 2025 - 5:15PM

Z:\25412\0029\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412-0029 - EC-PHI2.DWG - Aug 13, 2025 - 5:14 PM

MATCH LINE – SEE SHEET NO. EC3.4

MATCH LINE – SEE SHEET NO. EC3.3

Sd2-F
Du
Ds3
Sd1-NS
Sd1-S
Sd2-P
Co
L.O.D.
LIMITS OF DISTURBANCE (TYP.)
DOUBLE ROW SILT FENCE
CONCRETE WASHOUT
CONSTRUCTION EXIT
LAT: N032°11'00"
LONG: W081°12'37.72"
CONTRACTOR TO MAINTAIN SILT FENCE WITHIN DEFINED LIMITS
FRESHWATER WETLAND (TYP)
Ok
Ol

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DUST CONTROL	Du
CONSTRUCTION EXIT	Co
SILT FENCE - TYPE NS	Sd1-NS
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P
INLET SEDIMENT TRAP (GRAVEL)	Sd2-G

SYMBOL	DESCRIPTION	HYDROLOGIC RATING
Cc	CAPE FEAR SOILS	C/D
Cx	CRAVEN LOAMY FINE SAND	B/D
Oj	OCILLA COMPLEX	B/D
Ok	OGEECHEE LOAMY FINE SAND	B/D
Ol	OLUSTEE FINE SAND	B/D
Pl	PELHAM LOAMY SAND	B/D
Pn	POOLER FINE SANDY LOAM	C
W	WATER	----
Waf	WAHEE SANDY LOAM	C/D

NOTES:

1. RETROFIT OUTFALL CONTROL STRUCTURES CONSTRUCTED UNDER SEPARATE CONTRACT WITH SLOTTED BOARD DAM. EROSION CONTROL MEASURES TO BE MAINTAINED FOR THE DURATION OF CONTRACT.

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

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ES & PC - FINAL PHASE

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	1" = 30'

EC3.5

Z:\2545\25461\00\INGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25461.00.EC-01.DWG - Aug 5, 2025 - 5:14 PM

SEEDING RATES FOR TEMPORARY & PERMANENT COVER

MONTH	TEMPORARY COVER	RATE PER ACRE		PERMANENT COVER		RATE PER ACRE	
		SEEDED ALONE	ADDED TO MIX			SEEDED ALONE	ADDED TO MIX
JANUARY	* LESPEDEZA, ANNUAL * RYE * RYEGRASS, ANNUAL * WHEAT	40 lbs. 3 bu. 40 lbs. 3 bu.	10 lbs. .5 bu. - .5 bu.	* BAHIA, PENSACOLA BERMUDA, UNHULLED CENTIPEDE, SOD LESPEDEZA, SERICEA 1		60 lbs. 10 lbs. - 75 lbs.	30 lbs. 6 lbs. - -
FEBUARY	LESPEDEZA, ANNUAL * LOVEGRASS, WEEPING * RYE * RYEGRASS, ANNUAL	40 lbs. 4 lbs. 3 bu. 40 lbs.	10 lbs. 2 lbs. .5 bu. -	* BAHIA, PENSACOLA CENTIPEDE, SOD LESPEDEZA, SEDICEA 1 * LESPEDEZA, SEDICEA 2 * LOVEGRASS, WEEPING		60 lbs. - 75 lbs. 75 lbs. 4 lbs.	30 lbs. - - - 2 lbs.
MARCH	* LESPEDEZA, ANNUAL LOVEGRASS, WEEPING * RYEGRASS, ANNUAL * SUDANGRASS	40 lbs. 4 lbs. 40 lbs. 60 lbs.	10 lbs. 2 lbs. - -	BAHIA, PENSACOLA BERMUDA, UNHULLED CENTIPEDE, SOD * LESPEDEZA, SEDICEA 1 LESPEDEZA, SEDICEA 2 LOVEGRASS, WEEPING		60 lbs. 10 lbs. - 75 lbs. 75 lbs. 4 lbs.	30 lbs. 6 lbs. - - - 2 lbs.
APRIL	LOVEGRASS, WEEPING MILLET, BROWNTOP * MILLET, PEARL SUDANGRASS	4 lbs. 40 lbs. 50 lbs. 60 lbs.	2 lbs. 10 lbs. - -	BAHIA, PENSACOLA BERMUDA, HULLED CENTIPEDE, SOD * LESPEDEZA, SEDICEA 1 LESPEDEZA, SEDICEA 2 LOVEGRASS, WEEPING		60 lbs. 10 lbs. - 75 lbs. 75 lbs. 4 lbs.	30 lbs. 6 lbs. - - - 2 lbs.
MAY	LOVEGRASS, WEEPING MILLET, BROWNTOP MILLET, PEARL SUDANGRASS	4 lbs. 40 lbs. 50 lbs. 60 lbs.	2 lbs. 10 lbs. - -	BAHIA, PENSACOLA BERMUDA, HULLED CENTIPEDE, SOD * LESPEDEZA, SEDICEA 1 LESPEDEZA, SEDICEA 2 LOVEGRASS, WEEPING		60 lbs. 10 lbs. - 75 lbs. 75 lbs. 4 lbs.	30 lbs. 6 lbs. - - - 2 lbs.
JUNE	* LOVEGRASS, WEEPING MILLET, BROWNTOP MILLET, PEARL SUDANGRASS	4 lbs. 40 lbs. 50 lbs. 60 lbs.	2 lbs. 10 lbs. - -	BAHIA, PENSACOLA * BERMUDA, UNHULLED * LESPEDEZA, SEDICEA 1 * LESPEDEZA, SEDICEA 2 * LOVEGRASS, WEEPING		60 lbs. 10 lbs. - 75 lbs. 75 lbs. 4 lbs.	30 lbs. 6 lbs. - - - 2 lbs.

SEEDING RATES FOR TEMPORARY & PERMANENT COVER

MONTH	TEMPORARY COVER	RATE PER ACRE		PERMANENT COVER		RATE PER ACRE	
		SEEDED ALONE	ADDED TO MIX			SEEDED ALONE	ADDED TO MIX
JULY	* MILLET, BROWNTOP MILLET, PEARL SUDANGRASS	40 lbs. 50 lbs. 60 lbs.	10 lbs. - -	* BAHIA, PENSACOLA * LESPEDEZA, SEDICEA 1		60 lbs. 75 lbs.	30 lbs. -
AUGUST	* MILLET, PEARL * RYEGRASS, ANNUAL	50 lbs. 40 lbs.	- -	* BAHIA, PENSACOLA * LESPEDEZA, SEDICEA 1		60 lbs. 75 lbs.	30 lbs. -
SEPTEMBER	* BARLEY * OATS * RYE RYEGRASS, ANNUAL * WHEAT	3 bu. 4 bu. 3 bu. 40 lbs. 3 bu.	.5 bu. 1 bu. .5 bu. - .5 bu.	* BAHIA, PENSACOLA LESPEDEZA, SEDICEA 1		60 lbs. 75 lbs.	30 lbs. -
OCTOBER	BARLEY OATS RYE RYEGRASS, ANNUAL WHEAT	3 bu. 4 bu. 3 bu. 40 lbs. 3 bu.	.5 bu. 1 bu. .5 bu. - .5 bu.	* BAHIA, PENSACOLA LESPEDEZA, SEDICEA 1		60 lbs. 75 lbs.	30 lbs. -
NOVEMBER	BARLEY OATS RYE RYEGRASS, ANNUAL WHEAT	3 bu. 4 bu. 3 bu. 40 lbs. 3 bu.	.5 bu. 1 bu. .5 bu. - .5 bu.	* BAHIA, PENSACOLA BERMUDA, UNHULLED CENTIPEDE, SOD LESPEDEZA, SEDICEA 1		60 lbs. 10 lbs. - 75 lbs.	30 lbs. 6 lbs. - -
DECEMBER	BARLEY OATS RYE RYEGRASS, ANNUAL WHEAT	3 bu. 4 bu. 3 bu. 40 lbs. 3 bu.	.5 bu. 1 bu. .5 bu. - .5 bu.	* BAHIA, PENSACOLA BERMUDA, UNHULLED CENTIPEDE, SOD LESPEDEZA, SEDICEA 1		60 lbs. 10 lbs. - 75 lbs.	30 lbs. 6 lbs. - -

NOTES
ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED
* INDICATES MARGINAL (BUT PERMISSIBLE) PLANTING DATE
1. UNSCARIFIED
2. SCARIFIED
3. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER

FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-10-10 10-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac. * 1 & 2 30
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 6-10-10 0-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac. * 1 -
3. GROUND COVERS	FIRST SECOND MAINTENANCE	10-10-10 10-10-10 10-10-10	1300lbs./ac. *3 1300lbs./ac. *3 1100 lbs./ac.	- - -
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	-
5. SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700lbs./ac. 700lbs./ac. * 4	-
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500lbs./ac.	30 lbs./ac. * 5
7. WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-10-10 10-10-10	1500lbs./ac. 800lbs./ac. 400 lbs./ac.	50-100 lbs./ac. * 2 & 6 50-100 lbs./ac. * 2 30 lbs./ac. * 2
8. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 6-10-10 0-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac. * 6

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

LIME RATES AND ANALYSIS
* AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

MULCHING RATE
MULCHING (MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:
* DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED DRY STRAW SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE. DRY HAY SHALL BE APPLIED AT THE RATE OF 2 1/2 TONS PER ACRE.
* WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED BELOW) AFTER HYDRAULIC SEEDING.
* ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 4:1 OR STEEPER.
* SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE O 3 TONS PER ACRE.
* PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
* WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLACK SOD, MULCH IS NO REQUIRED.

EROSION CONTROL LEGEND

DESCRIPTION	PLAN SYMBOL
CHECK DAM (STONE)	Cd-S
CONSTRUCTION EXIT	Co
DUST CONTROL	Du
DISTURBED AREA STABILIZATION (MULCHING ONLY)	Ds1
DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	Ds2
DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	Ds3
DISTURBED AREA STABILIZATION (SODDING)	Ds4
PERFORATED HALF-ROUND PIPE	Rt-P
SILT FENCE - TYPE S	Sd1-S
INLET SEDIMENT TRAP (FILTER FABRIC WITH FRAME)	Sd2-F
INLET SEDIMENT TRAP (GRAVEL)	Sd2-G
INLET SEDIMENT TRAP (CURB INLET)	Sd2-P
SILT FENCE - TYPE NS	Sd1-NS
TREE PROTECTION	Tr
LIMITS OF DISTURBANCE	LOD
SILT FENCE	
EXISTING CONTOUR	10
PROPOSED CONTOUR	10

SPECIFICATIONS: MULCHING WITHOUT SEEDING
THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.
SITE PREPARATION
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES, AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.
MULCHING MATERIALS
SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:
1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.
APPLYING MULCH
WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.
ANCHORING MULCH
1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.
STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFERS, BINDERS, AND HYDRAULIC MULCH WITH TACKIFER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TAC-TACKIFERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

DUST CONTROL

DEFINITION: CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON LAND-DISTURBING ACTIVITIES.

PURPOSE: PREVENT THE MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND PREVENT THE MOVEMENT OF AIRBORNE SUBSTANCES THAT MAY BE HARMFUL TO HEALTH.

TEMPORARY METHODS	PERMANENT METHODS
- MULCHES - TEMPORARY VEGETATIVE COVER - SPRAY ON ADHESIVES - TILLAGE - IRRIGATION - BARRIERS - CALCIUM CHLORIDE	- PERMANENT VEGETATION - TOPSOILING - STONE COVER

INSTALLATION:
APPLY ACCORDING TO APPROVED PLAN, IF SHOWN. MULCH DISTURBED AREAS AND TACKIFY WITH REDSINS SUCH AS ASPHALT, CURASOL OR TERRATACK ACCORDING TO MANUFACTURES RECOMMENDATIONS. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION. COVER SURFACES WITH CRUSHED STONE OR GRAVEL. APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST. APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS AS DESCRIBED IN TABLE I.

TABLE I. SPRAY-ON ADHESIVE APPLICATION REQUIREMENTS

ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (GAL / ACRE)
ANIONIC ASPHALT EMULSION	7:1 *	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1 *	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1 *	FINE SPRAY	300

MAINTENANCE:
PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
SUPPLEMENT SURFACE COVERING AS NEEDED.

Du

DUST CONTROL

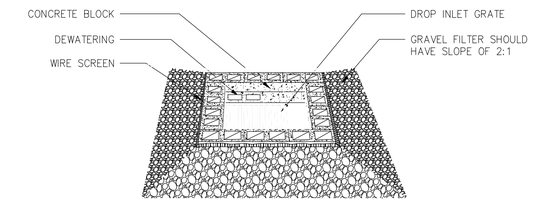
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OCT. 2008
THOMAS & HUTTON ENGINEERING CO.

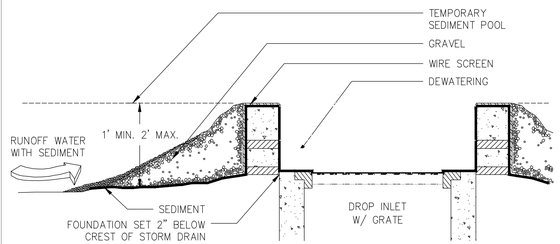
BLOCK AND GRAVEL DROP INLET PROTECTION

Sd2-G

BLOCK AND GRAVEL PERSPECTIVE



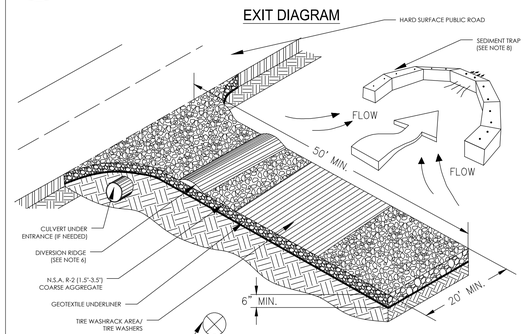
BLOCK AND GRAVEL SECTION



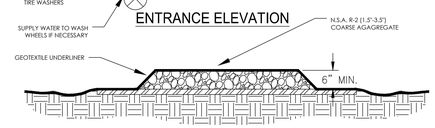
NOTE:
1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½ INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

Co CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



ENTRANCE ELEVATION



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

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

ES & PC DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

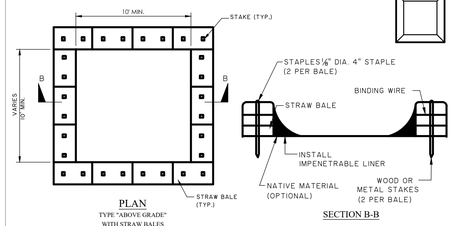
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

EC4.1

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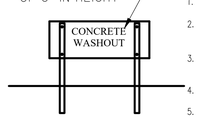
STRAW BALE BARRIER CONCRETE WASHOUT



PLAN
TYPE "ABOVE GRADE" WITH STRAW BALES

SECTION B-B

LETTERS A MINIMUM OF 5" IN HEIGHT



CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

CONCRETE WASHOUT
STRAW BALES OR ABOVE GROUND
NOT TO SCALE

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

DEFINITION

A temporary cover of plant residues or other suitable materials, produced on site if possible, applied to the soil surface.



PURPOSE

- Reduce runoff and erosion
- Modify soil temperature
- Conserve moisture
- Prevent surface compaction and crusting
- Control undesirable vegetation
- Increase biological activity in the soil

INSTALLATION

- Apply mulch or temporary grassing to all exposed areas within 14 days of disturbance.
- Applicable to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover.
- Mulch can be used as a singular erosion control device for up to 6 months.
- Apply at the appropriate depth. Refer to Table 1 for specific materials.

Site Preparation

- Grade to permit the use of equipment for applying and anchoring mulch
- Install needed erosion control measures such as dikes, berms, and sediment barriers.
- Loosen compacted soil to a minimum depth of 3".

Applying Mulch

- Apply dry straw or hay and wood chips uniformly by hand or by mechanical equipment.
- Apply 20-30 lbs of nitrogen/acre if the area will eventually be covered with perennial vegetation.
- Apply polyethylene film on exposed areas.

Anchoring Mulch

- Press straw or hay into the soil with a disk harrow immediately after application. Tackifiers may be used when spreading mulch with blower-type equipment.
- Anchor wood waste using the appropriate size netting
- Trench polyethylene at the top as well as incrementally as necessary.

Table 1. Mulching Application Requirements

Material	Rate	Depth
Straw or hay	-	2" to 4"
Wood waste, chips, sawdust, bark	-	2" to 3"
Polyethylene film	Secure with soil, anchors, weights	-
Geotextiles, jute matting, netting, etc.	See manufac-turer's recom-mentations	-

MAINTENANCE

- The appropriate depth and 90% cover shall be maintained at all times.

REFERENCES

Tac Tackifiers

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
NOT TO SCALE

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.



PURPOSE

- Reduce runoff and sediment damage of down stream resources
- Protect the soil surface from erosion
- Improve wildlife habitat
- Improve aesthetics
- Improve tilth, infiltration, and aeration as well as organic matter for permanent plantings

INSTALLATION

- Apply mulch or temporary grassing to all exposed areas within 14 days of disturbance.
- Applicable to rough graded areas that will be exposed for less than 6 months.
- Coordinate with permanent measures to ensure economical and effective stabilization.
- Take note of which species are not appropriate for companion crop plantings.
- When the soil has been sealed by rainfall or consists of smooth cut slopes, scarify the soil in order to provide a place for the seed to lodge and germinate.
- Apply agricultural lime at the rate determined by soil test pH.
- Apply lime before land preparation and incorporate with a disk, ripper, or chisel.
- On steep slopes, apply fertilizer hydraulically.
- Select grass or grass-legume mixtures based on the area and season of the year.
- Apply seed uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder.
- The appropriate depth of planting is 10x the seed diameter.
- Apply irrigation at a rate that will not cause runoff and erosion. Thoroughly wet the soil to insure germination of the seed.

MAINTENANCE

- Re-seed areas where an adequate stand of temporary vegetation fails to emerge.
- If optimum conditions for temporary vegetation is lacking, mulch can be used a singular erosion control device.

REFERENCES

Ds1 Disturbed Area Stabilization (With Mulching Only)

Tac Tackifiers

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEDING)
NOT TO SCALE

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization.



PURPOSE

- Protect the soil surface from erosion
- Reduce damage from sediment and runoff to down-stream areas
- Improve wildlife habitat and visual resources
- Improve aesthetics

INSTALLATION

- Use conventional planting methods where possible.
- Final Stabilization means that 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the plan (uniformly covered landscaping materials in planned lanscaped areas), or equivalent permanent stabilization measures.
- Select plants species based on site and soil conditions, planned use and maintenance of the area, time of year, method of planting, and the needs of the land user. (Refer to Table 1)
- Apply agricultural lime at a rate of 1-2 tons/ acre unless soil tests indicate otherwise. Please refer to Table 2 for initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species.
- Apply seed hydraulically. If using conventional methods, use a culti-packer seeder, drill, rotary seeder, or by hand.
- Cover the seed lightly with 1/8"-1/4" of soil for small seed and 1/2"-1" of soil for large seed when using a cultipacker.
- Check seed tags for % germination & % purity in order to calculate Pure Live Seed (PLS), which is the percentage of the seeds that are pure and will germinate.
- Mulch is required for all permanent vegetation applications. Please refer to **Ds1** for application rates and anchoring methods for different materials.
- Irrigate when the soil is dry and at a rate that will not cause runoff.

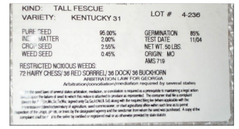


Figure 1. Typical Tag on a Bag of Seed

PLS Example

Tall Fescue

85% germination & 95% purity

PLS = 0.85 germination x 0.95 purity

PLS = 80.75%

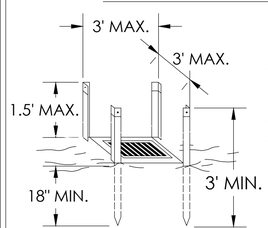
Seeding rate = 50 lbs. PLS/acre = 61.92 lbs/acre
PLS 80.75% PLS

DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)
NOT TO SCALE

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

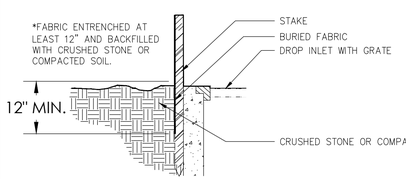
Sd2-F

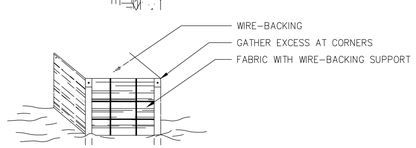
STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:

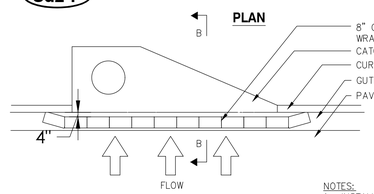
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD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

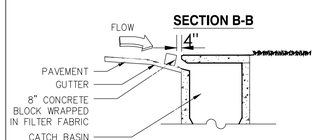




CURB INLET FILTER "PIGS IN BLANKET"

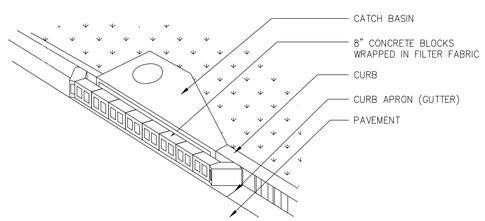
Sd2-P





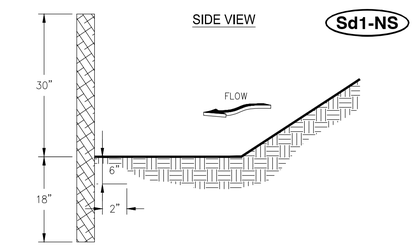
NOTES:

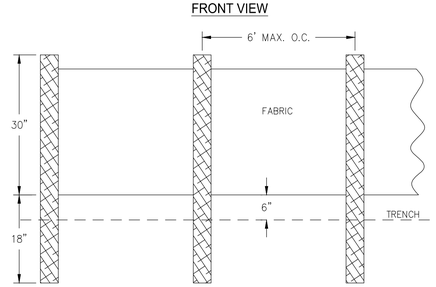
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.



SILT FENCE - TYPE NON-SENSITIVE

Sd1-NS

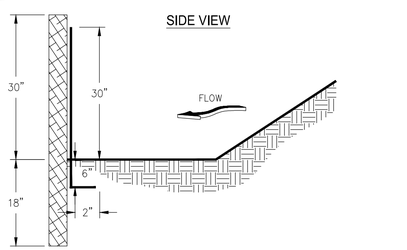


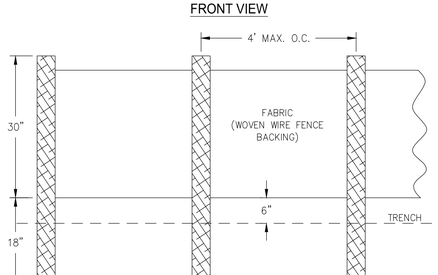


NOTES:

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





NOTES:

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT IS SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	6/19/25

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

ES & PC DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

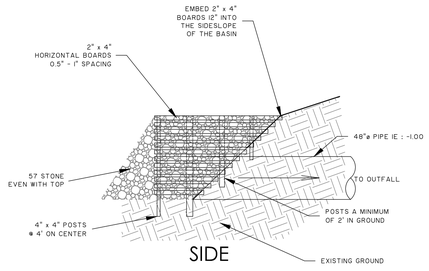
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

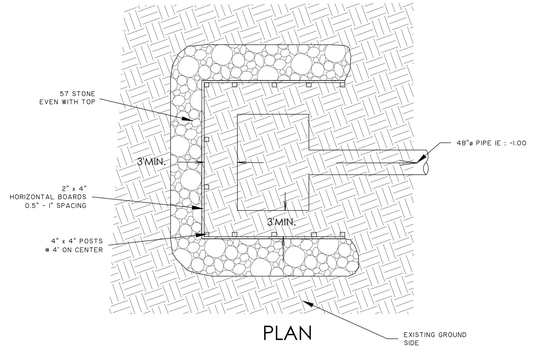
JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

EC4.2

Z:\25412\04-LDP\ENGINEERING\DRAWINGS\CONSTRUCTION PLANS\PHASE 2\25412.0029 - EC4.1.DWG - Aug 5, 2025 - 5:14 PM



SIDE



PLAN

SLOTTED BOARD DAM WITH STONE

NOT TO SCALE

Rt-B

STORAGE CALCULATIONS PROPOSED POND

1. REQUIRED STORMWATER STORAGE = 0 CY
2. REQUIRED SEDIMENT STORAGE = 1,346.70 CY (67 CY/AC X 20.10 AC. DISTURBED AREA)
3. TOTAL REQUIRED STORAGE = 0 + 1,346.70 = 1,36.70 CY
4. AVAILABLE STORAGE = 108,067.88 CY
5. IS THE AVAILABLE STORAGE (4) GREATER THAN THE TOTAL REQUIRED STORAGE (3)
   X YES ___ NO
6. IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
   N/A RAISE THE INVERT OF THE OUTLET STRUCTURE ___ INCHES
   N/A UNDERCUT THE POND ___ FEET
   ___ OTHER _____
7. CLEAN-OUT ELEVATION = 1.0 FEET
   (ELEVATION CORRESPONDING TO 22 CY/AC * 20.10 AC OF DISTURBED AREA)
8. IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?
   X YES ___ NO
9. IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
   N/A BAFFLES (TYPE OF BAFFLE: _____)
   N/A OTHER _____

NOTE THE CMP DIAMETER AND HEIGHT IF A HALF-ROUND CMP RETROFIT IS TO BE USED.
DIAMETER = N/A INCHES HEIGHT = N/A FEET

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1		FIT	06/19/2025

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

ES & PC DETAILS

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

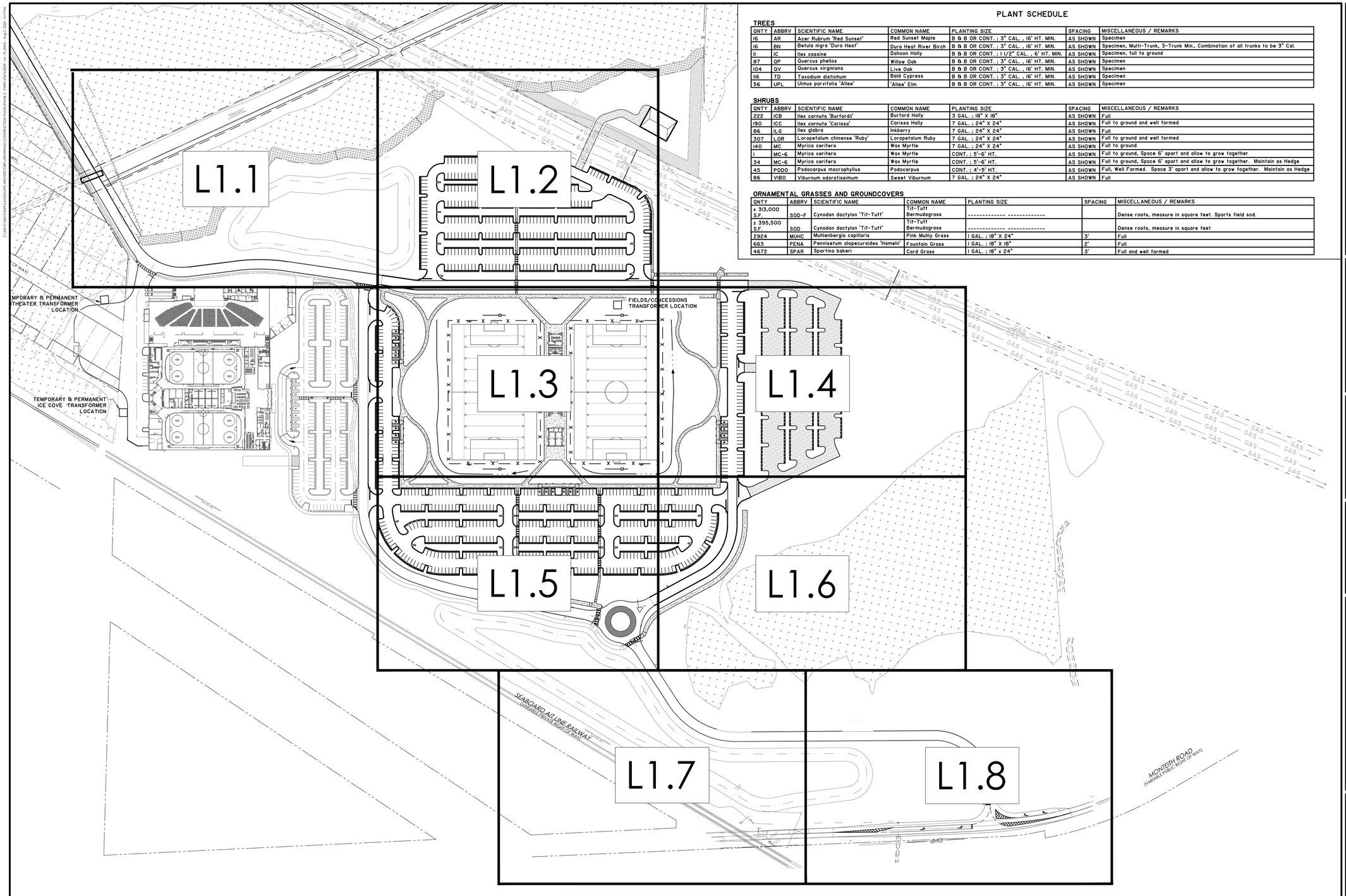
PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	SAM
DESIGNED:	
REVIEWED:	FIT
APPROVED:	KMS
SCALE:	N/A

EC4.3



PLANT SCHEDULE

TREES

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
16	AR	Acer Rubrum 'Red Sunset'	Red Sunset Maple	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
16	BN	Betula nigra 'Dura Heat'	Dura Heat River Birch	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen, Multi-Trunk, 3-Trunk Min., Combination of all trunks to be 3" Cal.
11	IC	Ilex cassine	Dahoon Holly	B & B OR CONT. ; 1 1/2" CAL. , 6' HT. MIN.	AS SHOWN	Specimen, full to ground
87	QP	Quercus phellos	Willow Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
104	QV	Quercus virginiana	Live Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
116	TD	Taxodium distichum	Bald Cypress	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
56	UPL	Ulmus parvifolia 'Allee'	'Allee' Elm	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen

SHRUBS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
222	ICB	Ilex cornuta 'Burfordii'	Burford Holly	3 GAL. ; 18" X 18"	AS SHOWN	Full
190	ICC	Ilex cornuta 'Carissa'	Carissa Holly	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
86	ILG	Ilex glabra	Inkberry	7 GAL. ; 24" X 24"	AS SHOWN	Full
307	LOR	Loropetalum chinense 'Ruby'	Loropetalum Ruby	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
140	MC	Myrica cerifera	Wax Myrtle	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground
1	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together
34	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together. Maintain as Hedge
45	PODO	Podocarpus macrophyllus	Podocarpus	CONT. ; 4'-5' HT.	AS SHOWN	Full, Well Formed. Space 3' apart and allow to grow together. Maintain as Hedge
86	VIBO	Viburnum odoratissimum	Sweet Viburnum	7 GAL. ; 24" X 24"	AS SHOWN	Full

ORNAMENTAL GRASSES AND GROUNDCOVERS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
± 313,000 S.F.	SOD-F	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet. Sports field sod.
± 395,500 S.F.	SOD	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet
2924	MUHC	Muhlenbergia capillaris	Pink Muhly Grass	1 GAL. ; 18" X 24"	3'	Full
663	PENA	Pennisetum alopecuroides 'Hameln'	Fountain Grass	1 GAL. ; 18" X 18"	2'	Full
4672	SPAR	Spartina bakeri	Cord Grass	1 GAL. ; 18" x 24"	3'	Full and well formed

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

OVERALL LANDSCAPE PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

120 0 60 120
GRAPHIC SCALE:
1 INCH = 120 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	1" = 120'

L1.0

J:\25412\25412.0029\LANDSCAPE ARCHITECTURE\DRAWINGS\CONSTRUCTION\PHASE 2 PARK\25412.0029 - LA_PL.DWG - Aug 12, 2025 - 5:18 PM

PLANT SCHEDULE

TREES

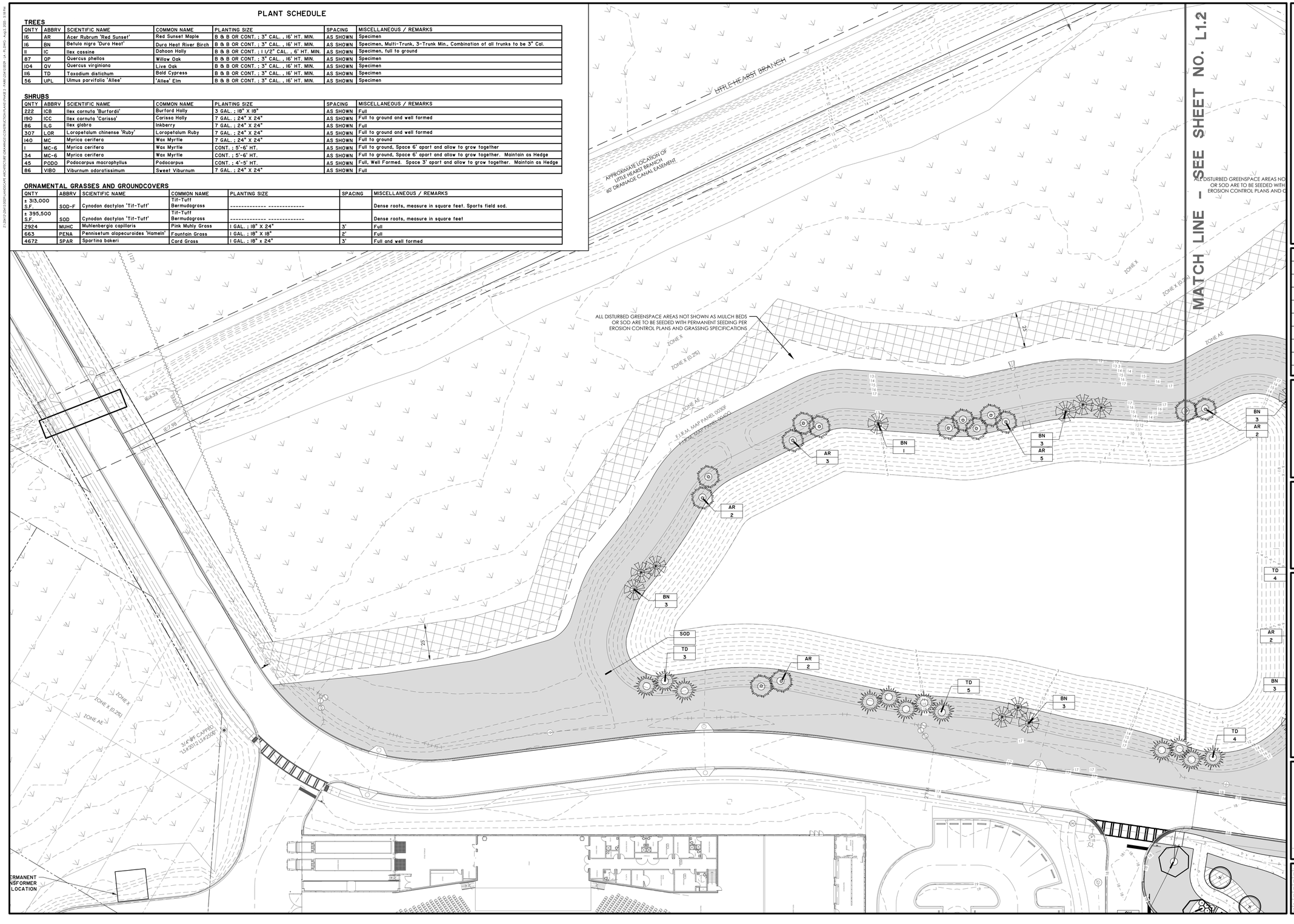
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87	QP	Quercus phellos	Willow Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
104	QV	Quercus virginiana	Live Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
116	TD	Taxodium distichum	Bald Cypress	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
56	UPL	Ulmus parvifolia 'Allee'	'Allee' Elm	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen

SHRUBS

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86	ILG	Ilex glabra	Inkberry	7 GAL. ; 24" X 24"	AS SHOWN	Full
307	LOR	Loropetalum chinense 'Ruby'	Loropetalum Ruby	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
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1	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together
34	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together. Maintain as Hedge
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ORNAMENTAL GRASSES AND GROUNDCOVERS

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4672	SPAR	Spartina bakeri	Cord Grass	1 GAL. ; 18" x 24"	3'	Full and well formed



ALL DISTURBED GREENSPACE AREAS NOT SHOWN AS MULCH BEDS OR SOD ARE TO BE SEEDED WITH PERMANENT SEEDING PER EROSION CONTROL PLANS AND GRASSING SPECIFICATIONS

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

BID SET - NOT FOR CONSTRUCTION

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

PLANTING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	CDS
APPROVED:	RPT
SCALE:	1" = 30'

L1.1

J:\SAVDATA\2025\0029\LANDDEV\ARCHITECTURE\DRAWINGS\CONSTRUCTION\PLANS\PHASE 2 PWR\25412.0029 - LA_PLTNG - Aug 13, 2025, 3:18 PM

MATCH LINE - SEE SHEET NO. L1.1

ALL DISTURBED GREENSPACE AREAS NOT SHOWN AS MULCH BEDS OR SOD ARE TO BE SEEDED WITH PERMANENT SEEDING PER EROSION CONTROL PLANS AND GRASSING SPECIFICATIONS

BENCHMARK BENCHMEN 18" OAK EL=14.41

WETLAND SIGN

ZONE X

ZONE X (SHADED)

ZONE AE

APPROXIMATE LOCATION OF SOUTHERN NATURAL GAS COMPANY 90' R/W

ALL DISTURBED GREENSPACE AREAS NOT SHOWN AS MULCH BEDS OR SOD ARE TO BE SEEDED WITH PERMANENT SEEDING PER EROSION CONTROL PLANS AND GRASSING SPECIFICATIONS

MATCH LINE - SEE SHEET NO. L1.3

FIELDS/CONCESSIONS TRANSFORMER LOCATION

PLANT SCHEDULE

TREES

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
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SHRUBS

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86	ILG	Ilex glabra	Inkberry	7 GAL. ; 24" X 24"	AS SHOWN	Full
307	LOR	Loropetalum chinense 'Ruby'	Loropetalum Ruby	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
140	MC	Myrica cerifera	Wax Myrtle	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground
1	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together
34	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together. Maintain as Hedge
45	PODO	Podocarpus macrophyllus	Podocarpus	CONT. ; 4'-5' HT.	AS SHOWN	Full, Well Formed. Space 3' apart and allow to grow together. Maintain as Hedge
86	VIBO	Viburnum odoratissimum	Sweet Viburnum	7 GAL. ; 24" X 24"	AS SHOWN	Full

ORNAMENTAL GRASSES AND GROUNDCOVERS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
± 313,000 S.F.	SOD-F	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet. Sports field sod.
± 395,500 S.F.	SOD	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet
2924	MUHC	Muhlenbergia capillaris	Pink Muhly Grass	1 GAL. ; 18" X 24"	3'	Full
663	PENA	Pennisetum alopecuroides 'Hameln'	Fountain Grass	1 GAL. ; 18" X 18"	2'	Full
4672	SPAR	Spartina bakeri	Cord Grass	1 GAL. ; 18" x 24"	3'	Full and well formed

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

PLANTING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE: 1 INCH = 30 FEET (30 0 15 30)

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	1" = 30'

L1.2

BID SET - NOT FOR CONSTRUCTION

MATCH LINE – SEE SHEET NO. L1.2

MATCH LINE – SEE SHEET NO. L1.4

MATCH LINE – SEE SHEET NO. L1.5

FIELDS/CONCESSIONS TRANSFORMER LOCATION

DOUBLE GATE

21' x 21' SQ.. SIZE OF TRANSFORMER CLEAR ZONE

SEE CIVIL SHEET C3.48 FOR FURTHER INFORMATION FOR SPORTS FIELD.

SEE CIVIL SHEET C3.48 FOR FURTHER INFORMATION FOR SPORTS FIELD.

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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PLANTING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

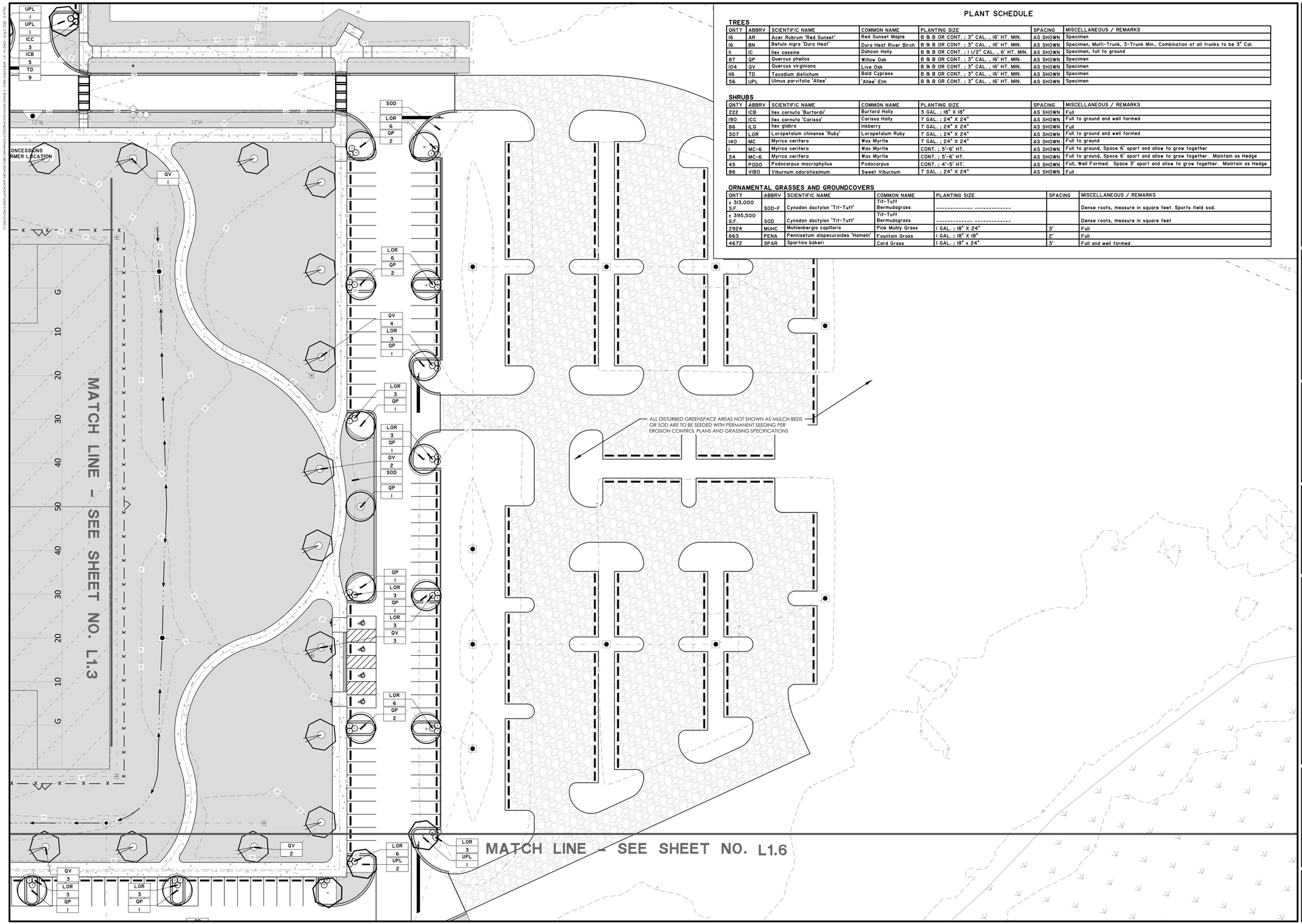
CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
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DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	1" = 30'

L1.3



PLANT SCHEDULE

TREES

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
16	AR	Acer Rubrum 'Red Sunset'	Red Sunset Maple	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
16	BN	Betula nigra 'Dura Heat'	Dura Heat River Birch	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen, Multi-Trunk, 3-Trunk Min., Combination of all trunks to be 3" Cal.
11	IC	Ilex cassine	Dahoon Holly	B & B OR CONT. ; 1 1/2" CAL. , 6' HT. MIN.	AS SHOWN	Specimen, full to ground
87	QP	Quercus phellos	Willow Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
104	QV	Quercus virginiana	Live Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
116	TD	Taxodium distichum	Bald Cypress	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
56	UPL	Ulmus parvifolia 'Allee'	'Allee' Elm	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen

SHRUBS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
222	ICB	Ilex cornuta 'Burfordii'	Burford Holly	3 GAL. ; 18" X 18"	AS SHOWN	Full
190	ICC	Ilex cornuta 'Carissa'	Carissa Holly	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
86	ILG	Ilex glabra	Inkberry	7 GAL. ; 24" X 24"	AS SHOWN	Full
307	LOR	Loropetalum chinense 'Ruby'	Loropetalum Ruby	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
140	MC	Myrica cerifera	Wax Myrtle	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground
1	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together
34	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together. Maintain as Hedge
45	PODO	Podocarpus macrophyllus	Podocarpus	CONT. ; 4'-5' HT.	AS SHOWN	Full, Well Formed. Space 3' apart and allow to grow together. Maintain as Hedge
86	VIBO	Viburnum odoratissimum	Sweet Viburnum	7 GAL. ; 24" X 24"	AS SHOWN	Full

ORNAMENTAL GRASSES AND GROUNDCOVERS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
± 313,000 S.F.	SOD-F	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet. Sports field sod.
± 395,500 S.F.	SOD	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet
2924	MUHC	Muhlenbergia capillaris	Pink Muhly Grass	1 GAL. ; 18" X 24"	3'	Full
663	PENA	Pennisetum alopecuroides 'Hameln'	Fountain Grass	1 GAL. ; 18" X 18"	2'	Full
4672	SPAR	Spartina bakeri	Cord Grass	1 GAL. ; 18" x 24"	3'	Full and well formed

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

THOMAS & HUTTON
50 Park of Commerce Way
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PLANTING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	1" = 30'

L1.4

BID SET - NOT FOR CONSTRUCTION

MATCH LINE - SEE SHEET NO. L1.3

MATCH LINE - SEE SHEET NO. L1.6

MATCH LINE - SEE SHEET NO. L1.7

ALL DISTURBED GREENSPACE AREAS NOT SHOWN AS MULCH BEDS OR SOD ARE TO BE SEEDED WITH PERMANENT SEEDING PER EROSION CONTROL PLANS AND GRASSING SPECIFICATIONS

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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PLANTING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

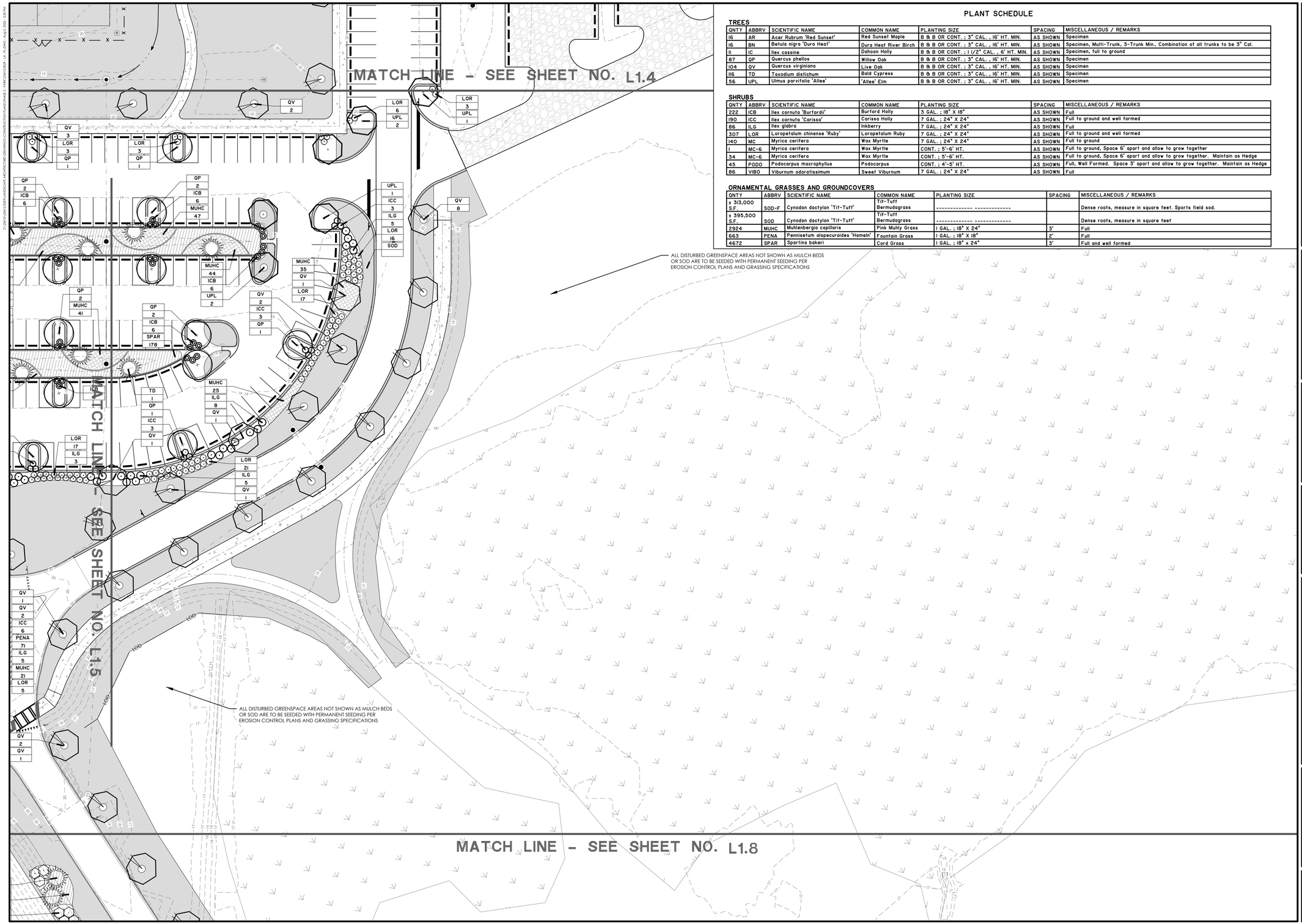
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
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DESIGNED:	LL/RM
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APPROVED:	RPT
SCALE:	1" = 30'

L1.5

BID SET - NOT FOR CONSTRUCTION



PLANT SCHEDULE

TREES

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
16	AR	Acer Rubrum 'Red Sunset'	Red Sunset Maple	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
16	BN	Betula nigra 'Dura Heat'	Dura Heat River Birch	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen, Multi-Trunk, 3-Trunk Min., Combination of all trunks to be 3" Cal.
11	IC	Ilex cassine	Dahoon Holly	B & B OR CONT. ; 1 1/2" CAL. , 6' HT. MIN.	AS SHOWN	Specimen, full to ground
87	QP	Quercus phellos	Willow Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
104	QV	Quercus virginiana	Live Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
116	TD	Taxodium distichum	Bald Cypress	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
56	UPL	Ulmus parvifolia 'Allee'	'Allee' Elm	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen

SHRUBS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
222	ICB	Ilex cornuta 'Burfordii'	Burford Holly	3 GAL. ; 18" X 18"	AS SHOWN	Full
190	ICC	Ilex cornuta 'Carissa'	Carissa Holly	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
86	ILG	Ilex glabra	Inkberry	7 GAL. ; 24" X 24"	AS SHOWN	Full
307	LOR	Loropetalum chinense 'Ruby'	Loropetalum Ruby	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
140	MC	Myrica cerifera	Wax Myrtle	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground
1	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together
34	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together. Maintain as Hedge
45	PODO	Podocarpus macrophyllus	Podocarpus	CONT. ; 4'-5' HT.	AS SHOWN	Full, Well Formed. Space 3' apart and allow to grow together. Maintain as Hedge
86	VIBO	Viburnum odoratissimum	Sweet Viburnum	7 GAL. ; 24" X 24"	AS SHOWN	Full

ORNAMENTAL GRASSES AND GROUNDCOVERS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
± 313,000 S.F.	SOD-F	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet. Sports field sod.
± 395,500 S.F.	SOD	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet
2924	MUHC	Muhlenbergia capillaris	Pink Muhly Grass	1 GAL. ; 18" X 24"	3'	Full
663	PENA	Pennisetum alopecuroides 'Hameln'	Fountain Grass	1 GAL. ; 18" X 18"	2'	Full
4672	SPAR	Spartina bakeri	Cord Grass	1 GAL. ; 18" x 24"	3'	Full and well formed

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
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PLANTING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	1" = 30'

L1.6

J:\25412\0029\DESIGN\LANDSCAPE ARCHITECTURE\DRAWINGS\CONSTRUCTION\PHASE 2 PARK\25412029 - LA_PLTNG - Aug 5, 2025 - 3:31 PM

MATCH LINE - SEE SHEET NO. L1.5

MATCH LINE - SEE SHEET NO. L1.6

MATCH LINE - SEE SHEET NO. L1.8

SEABOARD AIT LINE RAILWAY
(VARIABLE PRIVATE RIGHT OF WAY)

SEABOARD COAST LINE RAILWAY
RIGHT-OF-WAY VARIES

MONTEITH ROAD
60' RIGHT-OF-WAY

BENCHMARK
BENCHMARK 14' DIA.
ELEV. 4.8

DILAPIDATED WOODEN HOUSE

ALL DISTURBED GREENSPACE AREAS NOT SHOWN AS MULCH BEDS OR SOD ARE TO BE SEEDED WITH PERMANENT SEEDING PER EROSION CONTROL PLANS AND GRASSING SPECIFICATIONS

ALL DISTURBED GREENSPACE AREAS NOT SHOWN AS MULCH BEDS OR SOD ARE TO BE SEEDED WITH PERMANENT SEEDING PER EROSION CONTROL PLANS AND GRASSING SPECIFICATIONS

TD	5
SPAR	38
MC	I3
SPAR	87

TD	3
SPAR	48
MC	II
SPAR	34

MC	II
TD	3
SPAR	34
SPAR	37

SOD	
QV	I

QV	4
MUHC	80
TD	3
MC	II

SOD	
QV	3

MC	
I3	
SPAR	
IBI	
TD	
6	

TD	
5	
SPAR	
38	
MC	
I3	
SPAR	
98	

SPAR	
91	

QV	
I	

PLANT SCHEDULE

TREES

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
16	AR	Acer Rubrum 'Red Sunset'	Red Sunset Maple	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
16	BN	Betula nigra 'Dura Heat'	Dura Heat River Birch	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen, Multi-Trunk, 3-Trunk Min., Combination of all trunks to be 3" Cal.
11	IC	Ilex cassine	Dahoon Holly	B & B OR CONT. ; 1 1/2" CAL. , 6' HT. MIN.	AS SHOWN	Specimen, full to ground
87	QP	Quercus phellos	Willow Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
104	QV	Quercus virginiana	Live Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
116	TD	Taxodium distichum	Bald Cypress	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
56	UPL	Ulmus parvifolia 'Allee'	'Allee' Elm	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen

SHRUBS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
222	ICB	Ilex cornuta 'Burfordii'	Burford Holly	3 GAL. ; 18" X 18"	AS SHOWN	Full
190	ICC	Ilex cornuta 'Carisso'	Carisso Holly	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
86	ILG	Ilex glabra	Inkberry	7 GAL. ; 24" X 24"	AS SHOWN	Full
307	LOR	Loropetalum chinense 'Ruby'	Loropetalum Ruby	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
140	MC	Myrica cerifera	Wax Myrtle	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground
1	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together
34	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together. Maintain as Hedge
45	PODO	Podocarpus macrophyllus	Podocarpus	CONT. ; 4'-5' HT.	AS SHOWN	Full, Well Formed. Space 3' apart and allow to grow together. Maintain as Hedge
86	VIBO	Viburnum odoratissimum	Sweet Viburnum	7 GAL. ; 24" X 24"	AS SHOWN	Full

ORNAMENTAL GRASSES AND GROUNDCOVERS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
± 313,000 S.F.	SOD-F	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet. Sports field sod.
± 395,500 S.F.	SOD	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet
2924	MUHC	Muhlenbergia capillaris	Pink Muhly Grass	1 GAL. ; 18" X 24"	3'	Full
663	PENA	Pennisetum alopecuroides 'Hameln'	Fountain Grass	1 GAL. ; 18" X 18"	2'	Full
4672	SPAR	Spartina bakeri	Cord Grass	1 GAL. ; 18" x 24"	3'	Full and well formed

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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50 Park of Commerce Way
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PLANTING PLAN

PHASE 2
PORT WENTWORTH
RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	1" = 30'

L1.7

J:\25412\0029\DWG\LANDSCAPE ARCHITECTURE\DRAWINGS\CONSTRUCTION\PHASE 2 PARK\25412.0029 - LA_PL.DWG - Aug 5, 2025 - 3:51 PM

MATCH LINE - SEE SHEET NO. L1.6

MATCH LINE - SEE SHEET NO. L1.7

ALL DISTURBED GREENSPACE AREAS NOT SHOWN AS MULCH BEDS OR SOD ARE TO BE SEEDED WITH PERMANENT SEEDING PER EROSION CONTROL PLANS AND GRASSING SPECIFICATIONS

SOD
QV
3

QV
2
MUHC
32

QV
1
MUHC
77
TD
6
SPAR
166
MC
14

SPAR
34
SPAR
37
MC
11
TD
3

QV
9
SOD

MONTEITH ROAD
60' RIGHT-OF-WAY

OHP

PLANT SCHEDULE

TREES

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
16	AR	Acer Rubrum 'Red Sunset'	Red Sunset Maple	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
16	BN	Betula nigra 'Dura Heat'	Dura Heat River Birch	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen, Multi-Trunk, 3-Trunk Min., Combination of all trunks to be 3" Cal.
11	IC	Ilex cassine	Dahoon Holly	B & B OR CONT. ; 1 1/2" CAL. , 6' HT. MIN.	AS SHOWN	Specimen, full to ground
87	QP	Quercus phellos	Willow Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
104	QV	Quercus virginiana	Live Oak	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
116	TD	Taxodium distichum	Bald Cypress	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen
56	UPL	Ulmus parvifolia 'Allee'	'Allee' Elm	B & B OR CONT. ; 3" CAL. , 16' HT. MIN.	AS SHOWN	Specimen

SHRUBS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
222	ICB	Ilex cornuta 'Burfordii'	Burford Holly	3 GAL. ; 18" X 18"	AS SHOWN	Full
190	ICC	Ilex cornuta 'Carissa'	Carissa Holly	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
86	ILG	Ilex glabra	Inkberry	7 GAL. ; 24" X 24"	AS SHOWN	Full
307	LOR	Loropetalum chinense 'Ruby'	Loropetalum Ruby	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground and well formed
140	MC	Myrica cerifera	Wax Myrtle	7 GAL. ; 24" X 24"	AS SHOWN	Full to ground
1	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together
34	MC-6	Myrica cerifera	Wax Myrtle	CONT. ; 5'-6' HT.	AS SHOWN	Full to ground, Space 6' apart and allow to grow together. Maintain as Hedge
45	PODO	Podocarpus macrophyllus	Podocarpus	CONT. ; 4'-5' HT.	AS SHOWN	Full, Well Formed. Space 3' apart and allow to grow together. Maintain as Hedge
86	VIBO	Viburnum odoratissimum	Sweet Viburnum	7 GAL. ; 24" X 24"	AS SHOWN	Full

ORNAMENTAL GRASSES AND GROUNDCOVERS

QNTY	ABBRV	SCIENTIFIC NAME	COMMON NAME	PLANTING SIZE	SPACING	MISCELLANEOUS / REMARKS
± 313,000 S.F.	SOD-F	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet. Sports field sod.
± 395,500 S.F.	SOD	Cynodon dactylon 'Tif-Tuff'	Tif-Tuff Bermudagrass	---------- ----------		Dense roots, measure in square feet
2924	MUHC	Muhlenbergia capillaris	Pink Muhly Grass	1 GAL. ; 18" X 24"	3'	Full
663	PENA	Pennisetum alopecuroides 'Hameln'	Fountain Grass	1 GAL. ; 18" X 18"	2'	Full
4672	SPAR	Spartina bakeri	Cord Grass	1 GAL. ; 18" x 24"	3'	Full and well formed

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

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PLANTING PLAN

PHASE 2
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PORT WENTWORTH, GA 31407

30 0 15 30
GRAPHIC SCALE:
1 INCH = 30 FEET

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	1" = 30'

L1.8

J:\25412\0029\LANDSCAPE ARCHITECTURE\DRAWINGS\CONSTRUCTION\MASTER 2 PARK\25412029 - LA_PLTING - Aug 2, 2025 - 3:31 PM

GENERAL PLANTING / IRRIGATION NOTES

1. ALL TREES AND PALMS SHALL BE TAGGED IN THE FIELD AND SELECTED BY THE OWNER'S REPRESENTATIVE, LANDSCAPE ARCHITECT AND CITY OF SAVANNAH. THE TREES AND PALMS SHALL BE FROM A CITY OF SAVANNAH PRE-QUALIFIED NURSERY OR ACCEPTED ALTERNATE.

2. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST SHOULD FOLLOW OR EXCEED THE STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS (ASNS). UNLESS OTHERWISE SPECIFIED, ANY SIZE SPECIFIED SHALL BE CONSIDERED MINIMUM. MINIMUMS FOR HEIGHT, SPREAD, CALIPER, ETC. SHALL TAKE PRECEDENT OVER A SPECIFIED CONTAINER SIZE. (I.E. - IF 7 GALLON IS REQUIRED, TO PROVIDE A SPECIFIED HEIGHT OR SPREAD THAT IS SPECIFIED AS A 3 GALLON, THEN THE 7 GALLON SHALL BE SHALL BE REQUIRED AND INCLUDED IN THE BASE BID AND SHALL NOT BE CONSIDERED A CHANGE ORDER.

3. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.

4. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEARS' VERTICAL GROWTH (TOP CANDLE).

5. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS. CONTRACTOR RESPONSIBLE FOR LOCATING, PROTECTING, AND REPAIRING ALL DAMAGE TO BUILDINGS, UTILITIES, PAVEMENT, AND CURB & GUTTER. ANY REPAIRS SHALL BE DONE PROMPTLY AT CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.

7. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF HOLES WITH SIX (6) INCHES OF WATER. THIS WATER SHOULD PERCOLATE WITHIN A TWENTY-FOUR (24) HOUR PERIOD. IF WATER DOESNT PERC, CONTRACTOR SHALL NOTIFY THE OWNER'S REP PRIOR TO INSTALLING PLANTS.

8. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.

9. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.

10. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE. REPLACEMENTS ARE NOT SUBJECT TO AN ADDITIONAL GUARANTEE, BUT THE LANDSCAPE CONTRACTOR SHALL CONSULT WITH THE LANDSCAPE ARCHITECT ON REASON FOR PLANT DECLINE/DEATH AND HOW TO AVOID FUTURE INSTANCES.

11. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORDANCE WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.

12. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OVERNIGHT.

13. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.

14. REMOVE BURLAP/STRAPPING AND WIRE BASKET FROM TOP 1/3 OF ROOT BALL ON TREES.

15. REMOVE PAPER, PLASTIC OR METAL AROUND ROOT BALLS OF SHRUBS.

16. DO NOT WRAP TREES.

17. WATER ALL PLANT MATERIAL IMMEDIATELY AFTER PLANTING.

18. TREE GUYING MATERIAL SHALL BE 'ARBOR-TIE' OR EQUIVALENT.

19. ALL PLANT BEDS TO BE MULCHED WITH 3" OF DOUBLE SHREADED HARDWOOD MULCH.

20. ALL AREAS OF PLANTING, INCLUDING AREAS OF GRASS SEEDING AND SOD, SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND SHALL BE PROVIDED APPROPRIATE SOIL FOR THE PROPOSED PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL ADJUST PH AND / OR SOIL FERTILITY BY UNIFORMLY INCORPORATING REQUIRED SOIL CONDITIONING MATERIALS AT THE RATE AND DEPTH DETERMINED BY THE ANALYSIS OF THE SOIL TEST (AS REQUIRED IN 3.02 AND 3.13 OF THE LANDSCAPING SPECIFICATIONS). EACH SOIL TEST SHALL BE SPECIFIC TO THE PROPOSED PLANT MATERIAL TO BE INSTALLED IN A GIVEN AREA.

21. ALL EXISTING VEGETATION WITHIN AREAS TO BE PLANTED / SODDED / SEEDED SHALL BE REMOVED PRIOR TO PLANTING / SODDING / SEEDING. ALL AREAS INDICATED TO BE GRASS SEED SHALL BE HYDROSEEDED PER EROSION SEDIMENT CONTROL SPECIFICATIONS FOR PERMANENT STABILIZATION.

22. CONTRACTOR TO SUPPLY AUTOMATIC IRRIGATION SYSTEMS, COMPLETE AND INSTALLED. SYSTEM TO INCLUDE ALL VALVES, PIPES, HEADS, FITTINGS, RAIN SENSOR, AND CLOCK AND TO PROVIDE 100% COVERAGE OF ALL NEW SODDED AND IMPROVED EXISTING GRASS AREAS, TREES, SHRUBS AND PLANTING BEDS. COORDINATE IRRIGATION WITH OWNER'S REPRESENTATIVE. (CONTRACTOR SHALL PROVIDE A SHOP DRAWING AND SUBMITTALS FOR THE IRRIGATION SYSTEM)

23. WHERE IRRIGATION SYSTEM WILL BE INSTALLED WITH ANY WATER SOURCE OTHER THAN DOMESTIC POTABLE WATER, LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR IRRIGATION WATER TESTING. IRRIGATION WATER SHALL BE TESTED FOR LEVELS OF pH, ALKALINITY AND SOLUBLE SALTS. SUBMIT TEST RESULTS TO OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO INSTALLATION OR ORDERING OF IRRIGATION EQUIPMENT, PUMPS OR WELL DIGGING.

24. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR AUTOMATIC IRRIGATION SYSTEMS. CONTRACTOR SHALL PROVIDE ELECTRIC METER AND SERVICE IN ACCORDANCE WITH STATE AND LOCAL CODES FOR IRRIGATION SYSTEM. LOCATION OF METERS AND CONTROL PANELS FOR IRRIGATION SHALL BE APPROVED BY OWNER'S REP. PRIOR TO INSTALLATION.

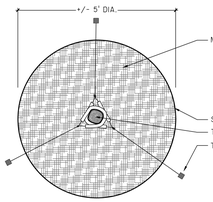
25. ALL TREES SHALL BE INSTALLED PER THE REQUIREMENTS OF THE CITY OF PORT WENTWORTH APPLICABLE ORDINANCES.

26. ALL PLANT BEDS TO RECEIVE WEED INHIBITOR OF PREEN OR ACCEPTED ALTERNATE.

27. FOR SUMMERTIME PLANTINGS, CONTRACTOR TO USE EITHER CONTAINERIZED OR PRE-DUG B & B PLANT MATERIAL.

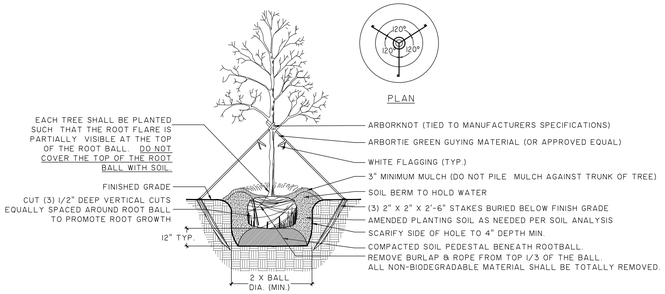
28. AS AN ADD ALTERNATE BID, THE CONTRACTOR SHALL PROVIDE "SOIL MOIST TRANSPLANT" (OR ACCEPTED EQUIVALENT) AT THE APPLICATION RATES SHOWN BELOW FOR ALL NEWLY INSTALLED PLANTINGS.

Container Size/Amount	Caliper Size/Amount
1 Gallon/.75 oz.	1"/3.0 oz.
2 Gallon/1.5 oz.	2"/6.0 oz.
3 Gallon/1.5 oz.	3"/9.0 oz.
5 Gallon/2.0 oz.	4"/12.0 oz.
7 Gallon/3.0 oz.	5"/15.0 oz
10 Gallon/3.0 oz.	6"/18.0 oz
15 Gallon/5.0 oz.	7"/21.0 oz
20 Gallon/7.0 oz.	8"/24.0 oz
Plant Height/Amount	**Box Size/Amount**
2'/1.5 oz.	16"/5.0 oz.
3'/2.0 oz.	20"/6.0 oz.
4'/3.0 oz.	24"/9.0 oz.
5'/4.0 oz.	30"/12.0 oz.
6'/5.0 oz.	36"/18.0 oz
7'/6.0 oz.	42"/27.0 oz
	60"/30.0 oz.



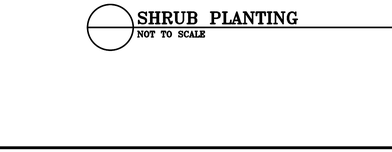
NOTES:
1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
2) APPLY MULCH IN A +/- 5' DIAMETER WHERE PROPOSED TREE PLANTINGS OCCUR IN SOD OR SEEDED AREA.

TREE RING
NOT TO SCALE



NOTES:
1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
2) ONLY GUY TREES WHEN SITE CONDITIONS REQUIRE IT.
3) PLANT ROOT BALL FLUSH WITH FINISHED GRADE UNLESS AREA HAS POOR DRAINAGE, IN WHICH CASE PLANT ROOTBALL 2" ABOVE GRADE.
4) REMOVE ALL BRANCHES THAT ARE DAMAGED, RUBBING, OR CROSSING OTHER BRANCHES.
5) NEVER CUT A CENTRAL LEADER.
6) FINAL TREE STAKING AND PLACEMENT TO BE APPROVED BY OWNER'S REP.
7) CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

TREE PLANTING
NOT TO SCALE

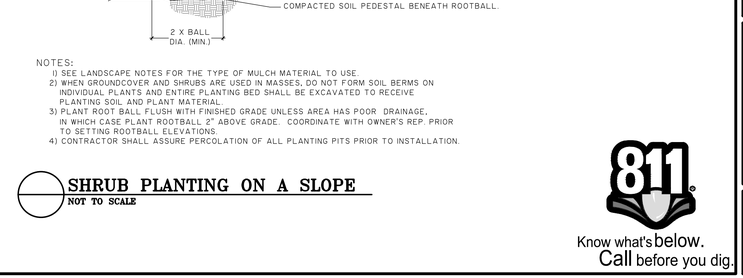


NOTES:
1) TRENCH EDGE TO BE LOCATED BETWEEN PLANTING BEDS AND ALL LAWN AREAS.

SOD TO PLANT BED EDGE
NOT TO SCALE

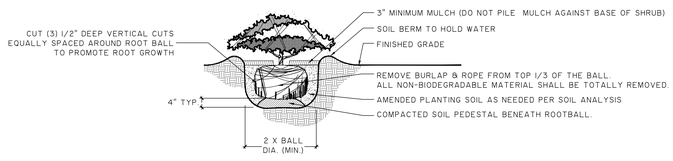
NOTES:
1) EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER PLANTING TO A DEPTH OF 12".

PLANT SPACING DETAIL
NOT TO SCALE



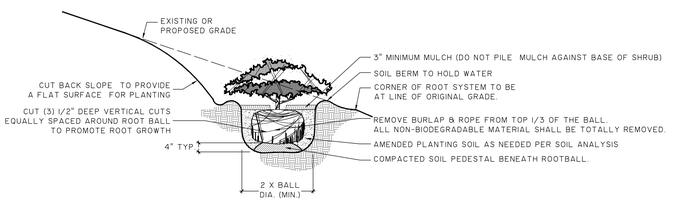
NOTES:
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4) CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

TREE PLANTING ON A SLOPE
NOT TO SCALE



NOTES:
1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
2) WHEN GROUNDCOVER AND SHRUBS ARE USED IN MASSES, DO NOT FORM SOIL BERMS ON INDIVIDUAL PLANTS AND ENTIRE PLANTING BED SHALL BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL.
3) PLANT ROOT BALL FLUSH WITH FINISHED GRADE UNLESS AREA HAS POOR DRAINAGE, IN WHICH CASE PLANT ROOTBALL 2" ABOVE GRADE. COORDINATE WITH OWNER'S REP. PRIOR TO SETTING ROOTBALL ELEVATIONS.
4) CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

SHRUB PLANTING
NOT TO SCALE



NOTES:
1) SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
2) WHEN GROUNDCOVER AND SHRUBS ARE USED IN MASSES, DO NOT FORM SOIL BERMS ON INDIVIDUAL PLANTS AND ENTIRE PLANTING BED SHALL BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL.
3) PLANT ROOT BALL FLUSH WITH FINISHED GRADE UNLESS AREA HAS POOR DRAINAGE, IN WHICH CASE PLANT ROOTBALL 2" ABOVE GRADE. COORDINATE WITH OWNER'S REP. PRIOR TO SETTING ROOTBALL ELEVATIONS.
4) CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

SHRUB PLANTING ON A SLOPE
NOT TO SCALE

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

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

GEORGIA REGISTERED No. 1341 LANDSCAPE ARCHITECT RYAN P. THOMPSON

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

GENERAL NOTES & DETAILS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	AS SHOWN

L2.1

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LANDSCAPING SPECIFICATIONS

LANDSCAPING

PART 1 - GENERAL

1.1 DESCRIPTION

A. The work covered in this section consists of soil preparation, fine grading, lawns, trees, shrubs and ground cover plantings, their protection and maintenance of planted areas until acceptance.

1.2 RELATED WORK

A. See Civil and Landscape plans and specifications.

1.3 QUALITY ASSURANCE

A. Qualifications of Workmen: Contractor shall provide at least one person present at all times during execution of work that is thoroughly familiar with the type of materials being installed and proper equipment and methods for their installation and who shall direct all work performed under this section.

B. Standards: All seed, sod, trees, shrubs, and ground covers shall meet or exceed the specifications of Federal, State, County and / or Municipality laws requiring inspection for disease and insect control.

1. Plants and planting methods shall conform to the latest edition of American Standard for Nursery Stock, American Nursery & Landscape Association, 1000 Vermont Avenue, NW, Suite 300, Washington, DC 20005

2. Plants shall be true and representative of their genus, species, cultivar, or variety. Nursery stock shipped in accordance with the required specifications shall be deemed to be acceptable within the terms of this section if it is typical in size and habit for the species in the region of the country in which it is grown unless the specifications include additional details.

3. **Prior to ordering any plant material, representative photos of each species shall be provided for review and acceptance.**

4. One of each bundle or lot shall be tagged with name and size of the plant in accordance with American Nursery & Landscape Association standards. In all cases, botanical names shall take precedence over common names. Landscape Architect should be consulted in the event questions arise about nomenclature of plants to be used and their availability.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver grass seed in original containers showing analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging and location of packaging. Damaged packages are not acceptable.

B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

C. Deliver sod on pallets.

D. Handling of plants shall be by lifting the root mass or container and not by lifting plant by trunk or branches. Handling of plants in an improper fashion shall be cause for rejection of plant materials. Care must be taken during all phases of the location and planting procedures not to damage root system, trunk or branches. All plant materials shall be planted as soon after arrival at the site as possible. Contractor is responsible for keeping plants safe from injury by the construction activity and watered to prevent drying out before planting. Balled and burlapped plants shall be "Healed-in" and protected with burlap or other accepted material if they cannot be planted upon delivery. Plants with broken major branches, badly bruised or damaged bark are not acceptable and will be rejected.

1.5 PLANTING DATES

A. The planting season for trees, shrubs and groundcovers is between October 1st and June 1st of the following year. Do not plant if temperature is below freezing or above 90 degrees. Planting at any other time other than the planting season is the Contractor's option and full responsibility and without additional compensation. Planting may, at the option of the Contractor, be postponed into the following planting season but without additional compensation provided the Owner and local governing jurisdiction have approved.

C. Planting dates for sod, sprigging or seeding shall be per the grassing specification.

1.6 MEASUREMENT AND PAYMENT

A. Measurement - The items listed in the proposal shall be considered as sufficient to complete the work in accordance with the plans and specifications. Any portion of the work not listed in bid form, but required to complete the work, shall be deemed to be a part of the item with which it is associated and shall be included in the cost of the unit shown on the bid form.

B. Payment - Payment for the unit shown on the bid form shall be considered to cover the cost of all labor, material, equipment, and performing all operations necessary to complete the work in place. No payment will be made for any material wasted, used for the convenience of the Contractor, unused or rejected.

1. Trees, Shrubs, and Groundcovers - Will be paid for at the contract unit price for planted/installed and accepted trees, shrubs, and groundcovers.

2. Payment for grassing will be made per the grassing specification.

3. Clearing - Will be paid for at the lump sum price for clearing.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Contractor shall, at time of delivery, furnish Owner and / or Landscape Architect with invoices of all materials received; in order the quality and source of materials may be reviewed.

2.2 TOPSOIL

A. TOPSOIL SHALL BE FERTILE, FRIABLE SOIL CONTAINING LESS THAN 5% TOTAL VOLUME OF THE COMBINATION OF SUBSOIL, REFUSE, ROOTS LARGER THAN 1 INCH DIAMETER, HEAVY, STICKY OR STIFF CLAY, STONES LARGER THAN 2 INCHES IN DIAMETER, NOXIOUS SEEDS, STICKS, BRUSH, LITTER, OR ANY SUBSTANCES DELETERIOUS TO PLANT GROWTH. THE PERCENT (%) OF THE ABOVE OBJECTS SHALL BE CONTROLLED BY SOURCE SELECTION NOT BY SCREENING THE SOIL. TOPSOIL SHALL BE SUITABLE FOR THE GERMINATION OF SEEDS AND THE SUPPORT OF VEGETATIVE GROWTH. IMPORTED TOPSOIL SHALL NOT CONTAIN WEED SEEDS IN QUANTITIES THAT CAUSE NOTICEABLE WEED INFESTATIONS IN THE FINAL PLANTING BEDS. IMPORTED TOPSOIL SHALL MEET THE FOLLOWING PHYSICAL AND CHEMICAL CRITERIA:

1. SOIL TEXTURE: USDA LOAM, SANDY CLAY LOAM OR SANDY LOAM WITH CLAY CONTENT BETWEEN 15 AND 25%, AND A COMBINED CLAY/SILT CONTENT OF NO MORE THAN 55%.
2. PH VALUE SHALL BE BETWEEN 5.5 AND 7.0.
3. PERCENT ORGANIC MATTER (OM): 2.0-5.0% BY DRY WEIGHT.
4. SOLUBLE SALT LEVEL: LESS THAN 2 MMHO/CM.
5. SOIL CHEMISTRY SUITABLE FOR GROWING THE PLANTS SPECIFIED.

B. IMPORTED TOPSOIL SHALL BE A HARVESTED SOIL FROM FIELDS OR DEVELOPMENT SITES. THE ORGANIC CONTENT AND PARTICLE SIZE DISTRIBUTION SHALL BE THE RESULT OF NATURAL SOIL FORMATION. MANUFACTURED SOILS WHERE COARSE SAND, COMPOSTED ORGANIC MATERIAL OR CHEMICAL ADDITIVES HAS BEEN ADDED TO THE SOIL TO MEET THE REQUIREMENTS OF THIS SPECIFICATION SECTION SHALL NOT BE ACCEPTABLE. RETAINED SOIL PEDS SHALL BE THE SAME COLOR ON THE INSIDE AS IS VISIBLE ON THE OUTSIDE.

C. IMPORTED TOPSOIL FOR PLANTING SOIL SHALL NOT HAVE BEEN SCREENED AND SHALL RETAIN SOIL PEDS OR CLODS LARGER THAN 2 INCHES IN DIAMETER THROUGHOUT THE STOCKPILE AFTER HARVESTING.

D. STOCKPILED EXISTING TOPSOIL AT THE SITE MEETING THE ABOVE CRITERIA MAY BE ACCEPTABLE.

E. PROVIDE A ONE GALLON SAMPLE FROM EACH IMPORTED TOPSOIL SOURCE(S) WITH REQUIRED SOIL TESTING RESULTS OF ALL EXISTING TOPSOIL TO BE USED. THE SAMPLE SHALL BE A MIXTURE OF THE RANDOM SAMPLES TAKEN AROUND THE SOURCE STOCKPILE OR FIELD.

2.3 SEED

A. See grassing specification.

2.4 SPRIG

A. See grassing specification.

2.5 SOD

A. See grassing specification.

2.6 PLANT MATERIALS

A. Provide all plant materials as indicated on the plans. In the event of any discrepancies between quantities of plants indicated on the plant schedule and those indicated on the plan, plan quantities shall govern.

B. Plants shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They shall be free of disease, insect pests, eggs or larvae, and shall have healthy, well developed root systems. Plants shall be from a nursery within 300 miles north or south of the project location and shall have been grown under climate conditions similar to those in the locality of project. Trees for planting in rows shall be uniform in size and shape.

B. Plants shall possess a normal balance between height and width. Plants shall be measured when branches are in their normal position. Height and spread dimensions specified refer to the main body of plant and not from branch tip to tip. Plants larger in size than specified may be used with no change in contract price.

C. Plants shall be dug with firm natural balls of earth, of diameter not less than recommended by American Standard for Nursery Stock and of sufficient depth to include fibrous and feeding roots. Plants will not be accepted if ball is cracked or broken before or during planting operations.

D. Trees specified for Street Tree Grade shall conform to standards of the A.N.L.A.:

1. Suitable for planting as street trees.

2. Free of branches to approximately 50% of height from ground.

3. Crown of tree shall be in good balance with the trunk.

2.7 FERTILIZER

A. Commercial fertilizer shall be slow release 5-10-10 or 6-12-12 (or as recommended by soil test), uniform in composition, free flowing, and suitable for application with appropriate equipment. Deliver to site unopened in manufacturer's standard containers showing weight, analysis and name of manufacturer. If stored on site, protect from the elements.

2.8 PEAT MOSS

A. Peat moss shall be finely shredded, 90% organic moss peat, brown in color and suitable for horticultural purposes. Peat shall be measured in air dry condition, containing not more than 35% moisture by weight. Ash content shall not exceed 10%.

2.9 MULCH FOR TREES, SHRUBS, AND GROUND COVERS

A. Mulch for non bio-retention areas shall be as shown on plans.

B. Mulch for bio-retention areas shall be shredded hardwood.

2.10 STAKING EQUIPMENT

A. Trees and palms shall be staked as shown in landscape plans.

2.11 WATER

Contractor shall provide water to the project via the installation of a new irrigation system for the area shown on the plans. For bidding purposes, the contractor shall assume connection to water meter on site as specified in civil plans.

PART 3 - EXECUTION

3.1 FINE GRADING

A. All areas within limits of construction shall be fine graded to the desired grades. All areas within limits of construction are to be fine graded, free of roots, debris and/or other objectionable material, before planting or grassing commence. Any additional fill material needed to fill low or uneven areas shall be provided by the Contractor. Positive drainage away from structures shall be provided in all plant beds so standing water does not occur. Planting beds shall be raised above adjacent lawn areas to provide good drainage conditions.

B. Planting and grassed areas, if not loose, shall be loosened to a minimum depth of 3-inches before fertilizer, seed or sod is applied.

3.2 FERTILIZER AND SOIL AMENDMENTS

A. Contractor shall provide Topsoil Analysis Tests that has been performed by a State Agricultural Experiment Station, Soil and Water Conservation District, State University, or other qualified private testing laboratory, as approved by Landscape Architect.

B. Apply fertilizer and soil amendments after fine grading and mix thoroughly into upper 2 inches of soil.

C. Fertilizer and other necessary soil amendments shall be applied at the rate recommended by Topsoil Analysis Test.

3.3 SODDING

A. See grassing specification.

3.4 SPRIGGING

A. See grassing specification.

3.5 SEEDING

A. See grassing specification.

3.6 SEED PROTECTION

A. See grassing specification.

3.7 LAYOUT OF TREES, SHRUBS, AND GROUND COVERS

A. All plants shall be placed in the proper location as shown on construction plans, allowing Landscape Architect to review all plant locations prior to actual planting. Landscape Architect may make minor adjustments which shall not be cause for changes to the contract price.

3.8 OBSTRUCTIONS BELOW GROUND

A. Prior to excavating planting holes, Contractor shall determine the exact location of electrical, phone, or television cables or conduits, water, drainage or sewer lines, and any other subsurface structures and take precautions to protect them. Any damage to underground utilities shall be repaired immediately at the Contractor's expense.

B. In the event rock, underground construction work, or other obstructions are encountered in any plant hole excavation under this contract, alternate locations may be selected. Where locations cannot be changed, the obstructions shall be removed to a depth of not less than three (3) feet below grade and not less than six (6) inches below bottom of ball or roots when plant is properly set at the required grade. The Contractor shall be responsible for the removal of such rock or other underground obstructions encountered.

3.9 PLANTING HOLES

A. For trees, shrubs and ground covers the planting hole shall be as shown on planting details in the plans. Do not leave planting holes open overnight. In the event that plant holes are dug and not planted in a timely manner, install four (4) foot high orange safety fencing around all excavated areas.

3.10 PLANTING TREES AND SHRUBS

A. Shall be same as grown in the nursery and/or container soil level. Adjust bottom soil mix to insure proper planting level with the proposed surrounding grades. Check plants to insure proper vertical alignment.

B. Fill holes to proper height to receive plant, and thoroughly tamp before setting the plant. Set plant in upright position in the center of the hole, and compact the backfill mixture around the ball or roots. Add soil amendments as required to improve fertility of existing soil and plant growing conditions.

1. When balled or burlapped plants are set, compact topsoil around base of ball to fill all voids. All bindings shall be removed and the top half of burlap removed from around root ball. If burlap is made of natural fibers it can be laid back from the root mass or can be cut away. Remove all burlap if it is made of non-degradable material/fabric. All weeds growing on the root mass shall be removed prior to planting.

2. Containerized plants shall have the container removed prior to planting. Care shall be taken to protect root mass from injury and the root mass intact. If root mass shows evidence of being bound or matted, three vertical 1/2" deep cuts shall be made on alternate sides of the root mass and roots pulled away slightly. This is to untangle roots which have begun to "circle" the root mass and to encourage new root growth. All weeds growing in the root mass shall be removed prior to planting.

3. Roots of bare root plants shall be spread out and topsoil carefully worked in among them. Remove with a clean cut, any broken or frayed roots.

3.11 PLANTING GROUND COVERS

A. Planting beds shall be thoroughly worked to a depth of twelve (12) inches incorporating fertilizer and other soil improvements at the recommended rate suggest by the soils test. Rake prepared planting bed until level, smooth and free from all soil, lumps, rocks, sticks and other deleterious materials. Bed area should be neatly outlined. Space the plants evenly as indicated on the drawings. Plant only in soil that is moist and friable, and not wet or soggy. In the case of planting in the open on hot days, shorten the time between planting and watering.

3.12 WATERING

A. Thoroughly water each plant when the hole is 1/3 full, again at 2/3 full and then complete backfilling. Once backfilling is complete, water again, then tamp the soil in place until the surface of the backfill is level with the surrounding area and the plant bears the same relation of finished grade as it bore to existing grade before being dug.

B. Earth saucers shall be constructed around the perimeter of planting holes of all trees and all single planted shrubs. Earth saucers shall be minimum 3" high and compacted to retain water. Earth saucers shall not be installed in areas where the subsoil is very poorly drained or around mass shrub / groundcover plantings.

C. All trees and shrubs to be hand watered on a regular basis as necessary during the warranty period.

3.13 SOIL MIX

A. Shall be existing or imported topsoil as specified in Section 2.2 and amended, as necessary, as specified in Section 3.2, unless otherwise specified on Plans

3.14 STAKING OF TALL PLANTS

A. Shall be done only if site / environment conditions make if required. If required, trees and palms shall be staked as indicated on the plans.

3.15 MULCHING

A. All plants shall be mulched with an evenly thick layer of clean mulch immediately after planting. Mass plant beds shall be completely mulched to the limits of the bed as shown on the plans. Limit of mulching for individual trees and shrubs shall be slightly beyond the saucer berm. The areas mulched shall be tidy and clean in appearance.

3.16 PRUNING

A. Remove dead, broken or bruised branches after planting using clean, sharp tools.

3.17 WEEDING

A. All planted areas shall be kept free from weeds and undesirable grasses until final acceptance by the Owner. See General notes on plans for additional information.

3.18 INSECT AND DISEASE CONTROL

A. All plant materials shall be disease or insect free upon arrival to the site, however, should any plants show signs of insect or disease infestations, Contractor shall identify nature of infestation and submit to Landscape Architect a proposed method of control. Contractor shall treat all infested plants at its expense. Should the infestation be wide spread and uncontrollable, plants affected shall be removed from site, fresh plants brought in and all other plants treated to prevent infestation of remaining plants at Contractor's expense.

3.19 CLEAN UP

A. Contractor is responsible for removing all trash, debris, rubbish and all other materials associated with the construction from site on a daily basis. All tags, flags, and labels will be removed from plants and trees. The site shall be left broom clean and tidy. Clean up of the site is a prerequisite to final acceptance by the Owner.

PART 4 - MAINTENANCE AND WARRANTY

4.1 MAINTENANCE

A. Protect all plantings (grass, plants and trees) until accepted by Owner. All damage, regardless of cause, shall be immediately repaired and plants replaced if necessary. Erect temporary fences, barricades, signs and other protection as needed to prevent trampling. Contractor is not responsible for replacement of damaged or missing plants and plant materials due to vandalism or other acts beyond the control of the Contractor if proper barriers or other safeguards have been maintained.

B. Maintenance shall include but is not limited to watering, weeding, cultivating, removal of dead material, mulch reapplication, resetting plants to proper grades or upright position, lawn mowing, fertilizing, and other necessary operations.

C. The Contractor shall repair immediately any areas damaged as a result of construction operations or erosion.

E. The Contractor shall maintain all proposed plantings until final acceptance is issued by the Owner.

F. At the end of the maintenance period, all plants shall be in a healthy growing condition. During the maintenance period, should the appearance of any plant indicate weakness and probability of dying, immediately replace without additional cost to the Owner. Replacements required because of vandalism or other causes beyond the control of the Contractor are not part of this contract.

4.2 WARRANTY

A. All shrubs, ground cover, and trees shall be guaranteed by the Contractor to be alive and healthy for a one year period after substantial completion is issued by the Owner. A final inspection with the Owner shall be conducted at the end of the warranty period to determine if any plants will be required to be replaced.

B. Any lawn, plant, or tree which is dead or not showing satisfactory growth shall be replaced at Contractor's expense at the end of warranty period. All replacements shall be of original quality and of a size equal to adjacent plants or trees of the same kind.

END OF SECTION

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 1341 RYAN P. THOMPSON

THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

LANDSCAPING SPECIFICATIONS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
468 MONTEITH ROAD
PORT WENTWORTH, GA 31407

CLIENT/OWNER:
CITY OF PORT WENTWORTH
7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO:	25412.0029
DATE:	8/4/25
DRAWN:	LL/RM
DESIGNED:	LL/RM
REVIEWED:	GDS
APPROVED:	RPT
SCALE:	AS SHOWN

L2.2

C:\24\25\25120029\LANDSCAPE ARCHITECTURE\DRAWINGS\CONSTRUCTION\MASTER 2 - PHASE\25120029 - LA_PL.DWG - Aug 5, 2025 - 5:07PM

GRASSING SPECIFICATIONS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Seeding, planting grass, and fertilizing graded areas around buildings, structures, soccer fields and sidewalk shoulders and other disturbed areas.

B. Seed protection.

C. Maintaining grassed areas until final acceptance.

1.2 RELATED WORK

A. Civil and Landscape plans and specifications.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Deliver grass seed in original containers showing analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging, and location of packaging. Damaged packages are not acceptable. Store in cool, dry locations away from contaminants.

B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer. Damaged bags are not acceptable. Store in cool, dry locations away from contaminants.

C. Deliver sod on pallets.

D. All material shall be acceptable to Engineer prior to use.

1.4 PLANTING DATES

A. This specification provides for establishment of a permanent grass cover between the dates of March 1 and September 30. If finished earth grades are not completed in time to permit planting and establishment of permanent grass during the favorable season between dates specified above unless otherwise accepted, Contractor will be required to plant a temporary cover to protect new graded areas from erosion and to keep windborne dust to a minimum. The temporary cover shall be planted between October 1 and February 28 unless otherwise permitted.

1.5 MEASUREMENT AND PAYMENT

A. When the season or stage of project is such results of grassing work cannot be determined, conditional acceptance will be made on work completed. When conditional acceptance is made for items of work covered, Contractor shall be entitled to 50% of bid price for the actual work placed and shall receive remaining 50% of bid price when final acceptance is made. Conditional acceptance shall not apply to the remaining items of work, and full bid price payment shall be made when work is acceptably placed and completed in accordance with specifications.

B. Payment for grassing will be made at contract unit price for the item “Grassing” and such payment shall constitute full compensation for furnishing and placing seed and fertilizer or sod where directed and protecting and maintaining seed and sod in all graded and disturbed areas.

PART 2 - PRODUCTS

Contractor shall submit source and species certification documents to Engineer and Owner's Representative for review prior to installation. Supply complete information on all analysis / test methodologies and results; laboratory certifications, manufacturer's specifications, and agency approvals to the Landscape Architect prior to placement of soil mixtures. In addition, provide the Landscape Architect with thoroughly mixed sample of soil mixes for approval prior to placement. Landscape Contractor shall make modifications and improvements to soil mixes deemed necessary by the soil analysis to meet requirements specified here in before, and to ensure proper growing medium for plant material.

2.1 SEED

A. All seed shall conform to all State Laws and to all requirements and regulations of the State Department of Agriculture.

B. The varieties of seed, as specified in Section 2.2, shall be individually packaged or bagged, and tagged to show name of seed, net weight, origin, germination, lot number, and other information required by the State Department of Agriculture.

C. The Engineer reserves the right to test, reject, or accept all seed before seeding.

2.2 SEEDING SCHEDULE

A. SEED	RATE	PLANTING DATES
'Princess 77' Bermuda	75 lbs/ acre	March 1 - September 30
Annual Rye (Temp only)	75 lbs/acre	October 1 - February 28

2.3 FERTILIZER

A. Commercial fertilizer of approved type, conforming to state fertilizer laws at the rate as recommended by soils test.

2.4 LIME

A. Agricultural grade, ground limestone at the rate as recommended by soils test.

2.5 SPRIG

A. Healthy living stems, stolons, or rhizomes and attached roots of locally adapted grass without adhering soil, including two to three nodes and from 4 to 6 inches long. Obtain from heavy, dense certified sod. Provide sprigs which have been grown under climatic conditions similar to those in the locality of the project. Coordinate harvesting and planting operations to prevent exposure of sprigs to the sun for more than 30 minutes before covering and moistening. Sprigs showing signs of wilt, mold, containing weeds or other detrimental material or that are heat damaged will be rejected.

B. The varieties of sprig, as specified in section 2.6, shall be individually packaged or bagged, and tagged to show name of sprig, net weight, origin and other information required by the State Department of Agriculture.

C. Sprigs shall be pure to variety specified and shall be free of other grass species, weeds or foreign matter.

D. Sprigs shall be harvested by digging (not collected above soil level) shredding sod, by rototilling sod and raking, by vericutting or by a sprig harvester. Sprigs shall consist of mostly rhizomes and crowns with only a few green leaves.

2.6 SPRIGGING SCHEDULE

A. SPRIG	RATE	PLANTING DATES
'Tifway 419' Bermuda (or approved equal)	1,000 bushels / ac. (Coverage in 3 months)	April 1 - August 31
Stabilize site with temporary grass seed (See section 2.2)		September 1 - March 31

B. In areas where existing grass is to be matched, Contractor shall sprig at the rate and dates recommended by sprig distributor.

2.7 SOD

A. Sod shall be premium grade, densely rooted, good quality grass of the species and certified variety as shown on the plans, free from noxious weeds with no surface soil being visible. The sod shall be obtained from areas where the soil is reasonably fertile. Sod of specified species with not less than 95 percent germination, not less than 85 percent pure seed, and not more than 0.5 percent weed seed. The sod shall be machine cut to a uniform soil thickness that shall contain practically all of the dense root system and not be less than 1-inch thick.

B. Before cutting, sod shall be mowed to a height of not less that 1-1/2" or more than 2". Sod shall be cut in uniform widths min. 12" and in lengths min. 24 inches.

C. Sod shall be delivered to site in a fresh, moist condition with healthy green foliage. It shall be unloaded from delivery trucks on pallets or rolls and placed in final position within 24 hours of delivery. Sod shall be protected from wind and sun and shall not be allowed to dry out before planting.

D. Sod shall be strong enough to support its own weight and retain its size and shape when suspended vertically from a firm grasp on the upper 10 percent of the section.

2.8 ACCESSORIES

A. Straw Mulch: Oat or wheat straw, reasonably free from weeds, foreign matter detrimental to plant life, and in dry condition.

B. Excelsior Mulch: Excelsior mulch shall consist of wood fibers cut from sound, green timber. The average length of fibers shall be 4 to 6 inches. Cut shall be made in such a manner as to provide maximum strength of fiber, but at a slight angle to natural grain of the wood to cause splintering of fibers when weathering in order to provide adherence to each other and to soil.

C. Wood cellulose fiber shall be made from wood chip particles manufactured particularly for discharging uniformly on the ground surface when dispersed by a hydraulic water sprayer. It shall remain in uniform suspension in water under agitation and blend with grass seed and fertilizer to form a homogenous slurry. Mulch fibers shall intertwine physically to form a strong moisture holding mat on the ground surface and allow rainfall to percolate into underlying soil. The mulch shall be heat processed to contain no germination or growth-inhibiting factors. It shall be dyed (non-toxic) an appropriate color to facilitate metering of material.

2.9 PRODUCT REVIEW

A. Contractor shall provide the Engineer with a complete description of all products before ordering. The Engineer will review all products before they are ordered.

PART 3 - EXECUTION

3.1 PREPARATION

A. Areas to be seeded or sprigged shall be made smooth and uniform and shall conform to the finished grade indicated on plans.

B. Remove foreign materials, plants, roots, stones, and debris from surfaces to be seeded.

C. Grassing areas, if not loose, shall be loosened to a minimum depth of 3 inches before fertilizer, seed, sprig or sod is applied.

D. Amendments to soils shall be incorporated into loosened 3 inch top soil layer as recommended by soils test.

E. **No seeding shall occur until acceptance of the seed bed preparation has occurred. Contractor shall notify owner and landscape architect once seed bed is prepared for review and acceptance.**

3.2 STAND OF GRASS

A. Before acceptance of seeding or sprigging is performed for the establishment of permanent vegetation, Contractor will be required to produce a satisfactory stand of perennial grass whose root system shall be developed sufficiently to survive dry periods and winter weather and be capable of re-establishment in spring.

B. Before acceptance of seeding performed for the establishment of temporary vegetation, Contractor will be required to produce a stand of grass sufficient to control erosion for a given area and length of time before the next phase of construction or establishment of permanent vegetation is to commence.

3.3 SEEDING AND SPRIGGING DATES

A. Seeding and sprigging shall be performed during periods and at rates specified in their respective schedules. Seeding and sprigging work may, at discretion of Contractor, be performed throughout the year using schedule prescribed for given period. Seeding and sprigging work shall not be conducted when the ground is frozen or excessively wet. Contractor will be required to produce a satisfactory stand of grass regardless of the period of year work is performed.

3.4 APPLYING LIME AND FERTILIZER

A. Following advance preparation and placing selected material for shoulders and slopes, lime and fertilizer, if called for based on soil tests, shall be spread uniformly over the designated areas, and shall be thoroughly mixed with the soil to a depth of approximately 2 inches. Fertilizer and lime shall be applied at the rate at the rate recommended by required soils test. Unless otherwise provided, lime will not be applied for temporary seeding. In all cases where practicable, acceptable mechanical spreaders shall be used for spreading fertilizer. On steep slopes subject to slides and inaccessible to power equipment, the slopes shall be adequately scarified. Fertilizer may be applied on steep slopes by hydraulic methods as a mixture of fertilizer and seed. When fertilizer is applied with combination seed and fertilizer drills, no further incorporation will be necessary. The fertilizer and seed shall be applied together when Wood Cellulose Fiber Mulch is used. Any stones larger than 2 ½ inches in any dimension, larger clods, roots, or other debris brought to the surface shall be removed.

3.5 SEEDING

A. Seed shall be sown within 24 hours following application of fertilizer and lime and preparation of the seedbed as specified in Section 3.4. Seed shall be uniformly sown at rate specified by the use of acceptable mechanical seed drills. Rotary hand seeders, power sprayers or other satisfactory equipment may be used on steep slopes or on other areas inaccessible to seed drills.

B. Seeds shall be covered and lightly compacted by means of cultipacker or light roller if the drill does not perform this operation. On slopes inaccessible to compaction equipment, the seed shall be covered by dragging spiked chains, by light harrowing or by other satisfactory methods.

C. Apply water with fine spray immediately after each area has been sown.

D. Do not sow seed when ground is too dry, during windy periods or immediately following a rain.

E. If permitted by the special provisions, wood cellulose fiber mulch or excelsior fiber mulch may be used.

3.6 SEED PROTECTION (STRAW MULCH)

A. All seeded areas seeded with permanent grasses shall be uniformly mulched in a continuous blanket immediately following seeding and compacting operations, using at least 2 tons of straw per acre.

3.7 SEED PROTECTION (EXCELSIOR MULCH)

A. Seed shall be sown as specified in Section 3.5. Within 24 hours after covering of seed, excelsior mulch shall be uniformly applied at the rate of 2 tons per acre. The mulch may be applied hydraulically or by other acceptable methods. Should the mulch be placed in a dry condition, it shall be thoroughly wetted immediately after placing. Engineer may require light rolling of the mulch to form a tight mat.

3.8 SEED PROTECTION (WOOD CELLULOSE FIBER MULCH)

A. After the lime has been applied and ground prepared as specified in Section 3.4, wood cellulose fiber mulch shall be applied at a rate of 1,500 pounds per acre in a mixture of seed and fertilizer. Hydraulic equipment shall be used for application of fertilizer, seed, and slurry of the prepared wood pulp. This equipment shall have a built-in agitation system with an operating capacity sufficient to agitate, suspend, and homogeneously mix a slurry of the specified amount of fiber, fertilizer, seed, and water. The slurry distribution lines shall be large enough to prevent stoppage. The discharge line shall be equipped with a set of hydraulic spray nozzles which will provide an even distribution of slurry on various areas to be seeded. The slurry tank shall have a minimum capacity of 1,000 gallons.

Seed, fertilizer, wood pulp mulch, and water shall all be combined into the slurry tank for distribution of all ingredients in one operation by hydraulic seeding method specified herein. Materials shall be combined in a manner recommended by the manufacturer. The slurry mixture shall be regulated so amounts and rates of application shall result in a uniform application of all materials at rates not less than amount specified. Using the color of wood pulp as a guide, equipment operator shall spray prepared seedbed with a uniform visible coat. The slurry shall be applied in a sweeping motion, in an arched stream to fall like rain, allowing wood fibers to build upon each other until an even coat is achieved.

3.9 SPRIGGING

A. Sprigs shall be placed at the date and rates as shown in section 2.6. The sprigging method shall be by broadcast sprigging, hydroplanting or row planter. Sprigging procedure shall ensure even coverage.

B. Sprigs applied by broadcast over the site with a distributor or hydroseeder shall be planted at the rates listed in section 2.6. Cover broadcast sprigs with straw mulch immediately after broadcast and water in immediately (within 2 hours).

C. Sprigs installed by row planter creating a narrow furrow that covers 50 to 80% of the sprig with soil may use less sprig material. Rate shall be as recommended by sprig supplier to provide a solid stand of turf within the time required in Section 2.6. Water in immediately (within 1 hour).

3.10 SODDING

A. Sod shall be placed between March 1st and December 1st. However, if sod is to be placed during periods of temperatures over 90 degrees F., the contractor shall take extra care for quick placement of sod with adequate, consistent watering necessary to ensure sod thrives as planted.

B. Sod shall be placed within 24 hours of cutting.

C. Place top elevation of sod 1/2 inch below adjoining paving or curbs.

D. All areas to be sodded shall be brought to the proper line grade or cross section as was existing prior to construction. Sod shall be placed so that, upon completion, the edges of the sodded areas will be smooth and will conform to the proposed finished grade. Sod shall be laid smooth, edge to edge, with staggered joints. Sod shall be immediately pressed firmly into contact with the sod bed by tamping or rolling, to eliminate any air pockets. A true and even surface shall be provided, to insure knitting without displacement of the sod or deformation of the surfaces of the sodded areas. Do not stretch or overlap sod pieces. Following compaction, screened soil of good quality shall be used to fill all cracks, and excess soil shall be worked into the grass with rakes or other suitable equipment. On slopes steeper than 4 to1, the sod shall be fastened in place with suitable wood or metal pins to hold the sod in place. Any damage by erosion or other causes that may have occurred after completion of grading operations shall be repaired, before commencing with the sodding operations.

E. Immediately before sodding, moisten topsoil with a fine spray to a minimum 1" depth. Sod shall not be laid on soil that is dry and powdery.

F. Sod shall be moist when laid and placed on moist ground. The sod shall be carefully placed by hand, beginning at the toe of slopes and working upwards. The length of the strips shall be at right angles to the flow of surface water. All joints shall be tightly butted and end joints shall be staggered at least 12 inches. The sod shall be immediately pressed firmly into the ground by tamping or rolling. Fill all joints between strips with fine screened soil. Sod on slopes shall be pegged with sod pegs to prevent movement. The sod shall be watered, mowed, weeded, repaired, or otherwise maintained, to insure the establishment of a uniform healthy stand of grass until acceptance.

G. Within 2 hours after sod has been placed, thoroughly water to a minimum depth of 4". After sod and soil have dried, roll sodded areas to ensure good bond between sod and soil and to remove depressions and irregularities. Roll sodded areas with a roller not exceeding 150 lbs. per foot of roller width. Top dress and roll again as necessary to create a smooth even surface.

PART 4 - MAINTENANCE, WARRANTY AND ACCEPTANCE

4.1 MAINTENANCE

A. Maintenance shall consist of providing protection against traffic, watering to ensure uniform seed germination and to keep surface of soil damp, and repairing any areas damaged as a result of construction operations or erosion. Maintenance shall also include, but is not limited to, watering, weeding, cultivating, removal of dead material, lawn mowing, fertilizing, and other necessary operations.

B. The Contractor shall maintain all proposed plantings until the date of final acceptance by the Owner.

4.2 WARRANTY

A. All grassed areas shall be guaranteed by the Contractor to be alive and healthy for a one year period from the date of substantial completion issued by the Owner. A final inspection with the Owner shall be conducted at the end of the warranty period to determine if any areas require replanting. At the end of the warranty period, the sod shall show evidence of rooting to the underlying soil and shall have no competitive weed growth from either the sod or from between the sod joints.

B. Any grassed area which is dead or not showing satisfactory growth shall be replaced at Contractor's expense at the end of warranty period. All replacements shall be of original quality and of a size equal to adjacent plants or trees of the same kind. Replacements required because of vandalism, excessive use or other causes beyond the control of the Contractor are not part of this contract.

4.3 ACCEPTANCE

A. Before acceptance of seeding performed for the establishment of permanent vegetation, Contractor will be required to produce a satisfactory stand of perennial grass whose root system shall be developed sufficiently to survive dry periods and winter weather and be capable of reestablishment in spring.

B. A minimum coverage of 80% density over 100% of the disturbed area is required for seeded areas before project acceptance. Sprig and sod areas shall have 95 % coverage over 100% of the disturbed area prior project acceptance.

END OF SECTION

BID SET - NOT FOR CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	INTERNAL QA/QC	FIT	06/19/2025

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 1341 RYAN P. THOMPSON

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GRASSING SPECIFICATIONS

PHASE 2
PORT WENTWORTH RECREATIONAL COMPLEX

PROJECT LOCATION:
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L2.3