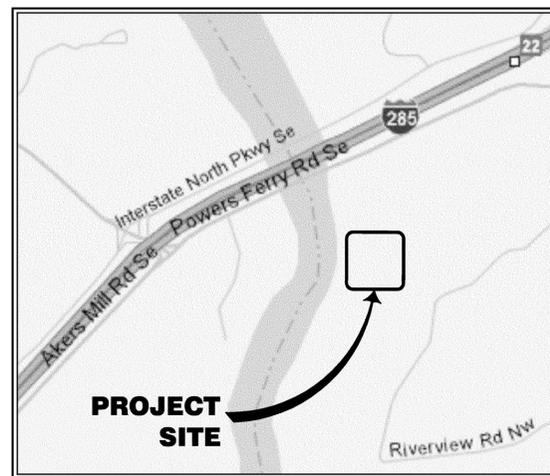


FULTON COUNTY DEPARTMENT OF PUBLIC WORKS NORTH FULTON PUMP STATION UPGRADES GAME CREEK PUMP STATION

LAND LOT 211, DISTRICT 17
FULTON COUNTY, GEORGIA

CONSTRUCTION DOCUMENTS
SEPTEMBER 15, 2006



VICINITY MAP

SCALE: 1" = 900'



9-15-06

**PRIME
ENGINEERING
INCORPORATED®**
PROJECT NUMBER 06-2015-005

R:\2015-005 North Fulton Pump Station Upgrades\dwg\Game Creek\G001-2015-005-GC.dwg Thu, 09/21/06 10:07 AM

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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PROJECT DIRECTORY

1. PROJECT: NORTH FULTON PUMP STATION UPGRADES
 GAME CREEK PUMP STATION
 LAND LOT 211, 17TH DISTRICT
 FULTON COUNTY, GEORGIA

2. SITE ADDRESS: 6600 POWERS FERRY ROAD
 ATLANTA, GEORGIA 30339

3. OWNER: FULTON COUNTY DEPARTMENT OF PUBLIC WORKS
 WATER SERVICES DIVISION
 CONTACT: MR. SIMEON SOLOMERO, JR
 141 PRYOR STREET, S.W., SUITE 6001
 ATLANTA, GA 30303
 PHONE: 404-730-7418

4. CIVIL ENGINEER: PRIME ENGINEERING, INC.
 CONTACT: MR. ANDY SEDDON, P.E.
 1888 EMERY STREET NW, SUITE 300
 ATLANTA, GEORGIA 30318
 PHONE: 404-425-7100

5. MECHANICAL ENGINEER: PRIME ENGINEERING, INC.
 CONTACT: MR. BRYAN WEBB, P.E.
 PHONE: 404-425-7100

6. ELECTRICAL ENGINEER: RAY GROUP CONSULTING ENGINEERS, INC.
 CONTACT: MR. ASHIM K. RAY, P.E.
 1827 POWERS FERRY ROAD
 BUILDING 21, SUITE 200
 ATLANTA, GEORGIA 30339
 PHONE: 770-953-1443

7. SURVEYOR: PRIME SURVEYING, INC.
 CONTACT: MR. JOHN BLOUNT, R.L.S.
 PHONE: 404-425-7100

FULTON COUNTY NOTES

- ALL WASTEWATER PIPE CONSTRUCTION MUST CONFORM TO FULTON COUNTY'S STANDARDS AND SPECIFICATIONS.
- ALL WASTEWATER EASEMENTS MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT AREA.
- NEOPRENE COUPLINGS WITH STAINLESS STEEL BANDS AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
- LOW PRESSURE AIR TESTING REQUIRED FOR ALL WASTEWATER PIPE SYSTEMS. THIS TEST MUST MEET ALL REQUIREMENTS AS OUTLINED IN ASTM C-828-80 OR CURRENT REVISION.
- COMPACTION OF THE BACK FILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DENSITY (STANDARD PROCTOR). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WASTEWATER PIPE FOR CONNECTION TO EXISTING WASTEWATER SYSTEMS.
- EIGHT (8") INCH OR LARGER PIPE LINES SHOULD BE TV INSPECTED. A VHS TAPE AND WRITTEN INSPECTION LOG, CERTIFIED BY A GEORGIA REGISTERED ENGINEER, SHALL BE PROVIDED TO THE PROJECT ENGINEERING SECTION OF PUBLIC WORKS AT THE TIME OF FINAL ACCEPTANCE.

FLOW RANGE HISTORY

DATE	MAX. AVERAGE DAILY FLOW
JULY 2005	645 MGD
AUGUST 2005	1,380 MGD
SEPTEMBER 2005	448 MGD
OCTOBER 2005	333 MGD
NOVEMBER 2005	348 MGD
DECEMBER 2005	321 MGD
JANUARY 2005	334 MGD
FEBRUARY 2005	564 MGD
MARCH 2005	341 MGD
APRIL 2005	314 MGD
MAY 2005	319 MGD
JUNE 2005	572 MGD

PRIME ENGINEERING
INCORPORATED

1888 EMERY STREET, N.W., SUITE 300
ATLANTA, GEORGIA 30318
404-425-7100

PROJECT: NORTH FULTON PUMP STATION UPGRADES - GAME CREEK PUMP STATION

PREPARED FOR: FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

DRAWING INDEX

DRAWING NUMBER	DRAWING TITLE
0 09/15/06	T-001 COVER
0 09/15/06	G-001 GENERAL INFORMATION
0 09/15/06	C-001 CIVIL LEGEND
0 09/15/06	C-201 SITE PLAN
0 09/15/06	C-401 CIVIL DETAILS
0 09/15/06	M-001 MECHANICAL LEGEND
0 09/15/06	M-201 MECHANICAL PLAN
0 09/15/06	E-001 ELECTRICAL & INSTRUMENTATION LEGEND
0 09/15/06	E-201 ELECTRICAL & INSTRUMENTATION PLAN
0 09/15/06	E-401 ELECTRICAL & INSTRUMENTATION DETAILS

LEGEND

INDICATES SHEET INCLUDED IN THIS ISSUE

REVISION NUMBER

LATEST ISSUE

GENERAL NOTES

- EXISTING DATA: THE EXISTING INFORMATION PROVIDED IN THESE DRAWINGS WAS OBTAINED BY PRIME ENGINEERING, INC. DURING SITE VISITS ON MAY 16, 2006 AND JULY 11, 2006. EXISTING DRAWINGS BY KHAFRA ENGINEERING CONSULTANTS, INC. DATED FEBRUARY 2002 WERE ALSO USED TO SUPPLEMENT THE FIELD INFORMATION.
- CONTRACTOR IS RESPONSIBLE DURING BID PHASE FOR VERIFYING ALL EXISTING CONDITIONS, DIMENSIONS, ACCESS LIMITATIONS, AND SITE RESTRICTIONS THAT AFFECT THIS SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR PROVIDING LABOR, MATERIAL, AND EQUIPMENT PROVISIONS AS REQUIRED AND (IN BASE BID AND ANY ALTERNATIVES) TO PERFORM SCOPE OF WORK BASED ON THESE EXISTING SITE CONDITIONS.
- ALL CONNECTIONS TO EXISTING SYSTEMS AND WORK ON ACTIVE SYSTEMS MUST BE SCHEDULED A MINIMUM OF 24 HOURS IN ADVANCE WITH FULTON COUNTY.
- NO SYSTEMS SHALL BE RETURNED TO ACTIVE SERVICE WITHOUT WRITTEN APPROVAL FROM FULTON COUNTY.
- UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS, NO PIPE SHALL BE CUT THAT SHALL REMAIN IN SERVICE. REMOVAL OF OLD FITTINGS WILL BE ACCOMPLISHED FROM JOINT TO JOINT WITH GASKET REPLACEMENT AND NUTS AND BOLTS AT THESE LOCATIONS.
- CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS FOR ELECTROMAGNETIC FLOW METER AND CHART RECORDER.
- REMOVE ALL ABANDONED MECHANICAL AND ELECTRICAL EQUIPMENT PROPERLY. PROPERLY DISPOSE OF ALL REMOVED EQUIPMENT AND/OR DEBRIS.
- BYPASS PUMPING, AS REQUIRED DURING CONSTRUCTION, SHALL BE COORDINATED WITH THE OWNER. AT ALL TIMES THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PUMP STATION WET WELL LEVEL BELOW THE ALARM SET POINT.
- RATED CAPACITY OF EXISTING PUMP STATION IS 4.0 MGD.

DETAIL ID

SECTION OR DETAIL NUMBER

X TITLE

X-XXX SCALE: X"=X"

SHEET NUMBER

REVISIONS

NO.	DATE	DESCRIPTION
0	9/15/2006	CONSTRUCTION DOCUMENTS

SEAL

DATE: 9-15-06

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DRAWING TITLE

GENERAL INFORMATION

07TITENFPUMPSK-DB

DRAWING DATE	09/15/06	DRAWN BY	ESD	DESIGNED BY	AJS	CHECKED BY	RBW
DRAWING SCALE		NOT TO SCALE		PROJECT NUMBER		06-2015-005	
DRAWING NUMBER		G-001					
NOT ISSUED FOR CONSTRUCTION							

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CIVIL LEGEND

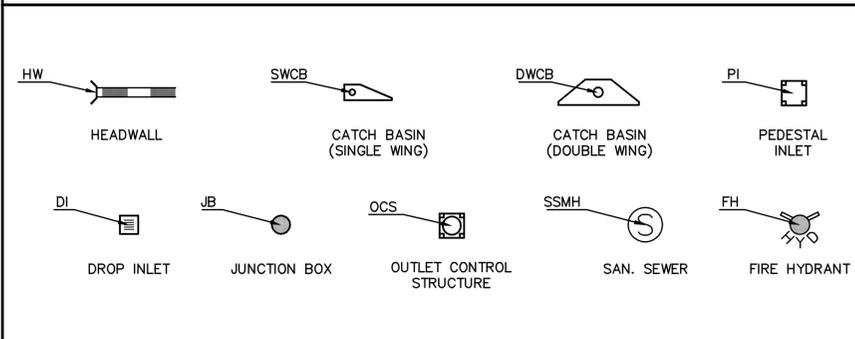
ABBREVIATIONS

CIVIL NOTES

	EXISTING	PROPOSED
ASPHALT PAVEMENT		
BENCHMARK		N/A
BOLLARD		
BUILDING		
CENTERLINE		
CONCRETE		
CONSTRUCTION LIMITS	N/A	
CONTOUR, INTERMEDIATE		
CONTOUR, MAIN		
CONTROL POINTS		N/A
CREEK CENTERLINE		
DEMOLITION (STRUCTURES)	N/A	
DEMOLITION (UTILITIES)	N/A	
EASEMENT		
GROUT		
GUARD RAIL		
HANDICAP SYMBOL		
IRON ROD FOUND		N/A
PAVEMENT ARROW		
PROPERTY LINE		
RETAINING WALL		
SIGN, ONE POLE		
SLOPE ARROW		
TREE LINE		
TREES		
WATER LINE		
FIRE MAIN		
FIRE HYDRANT		
WATER METER		
45° BEND (L)		
45° BEND (R)		
WYE		
CROSS		
90° BEND		
PLUG		
REDUCER		
TEE		
THRUST BLOCK		
VALVE		
VALVE (POST INDICATOR)		
MONITORING WELL		
SIAMESE CONNECTION		

A	ARC LENGTH	M	MOTOR ACTUATOR
AC	ACRE	MAX	MAXIMUM
AE	AIR ELIMINATOR	MH	MANHOLE
AGGR	AGGREGATE	MIN	MINIMUM
ASPH	ASPHALT	MON	MONUMENT
B/F	BELOW FLOOR	N/A	NOT APPLICABLE
BE	BOTTOM ELEVATION	NIC	NOT IN CONTRACT
BFV	BUTTERFLY VALVE	NPT	NATIONAL PIPE THREAD
BITUM	BITUMINOUS	NTS	NOT TO SCALE
BLDG	BUILDING	OC	ON CENTER
BOP	BOTTOM OF PIPE	OD	OUTSIDE DIAMETER
		OTS	ON THIS SHEET
C	CHORD LENGTH	PL	PROPERTY LINE
CL	CENTERLINE	PC	POINT OF CURVE
CB	CATCH BASIN	PG	PRESSURE GAUGE
CF	CUBIC FEET	PI	POINT OF INTERSECTION
CMP	CORRUGATED METAL PIPE	PIV	POST INDICATOR VALVE
COL	COLUMN	PP	POWER POLE
CO	CLEAN OUT	PPVC	PERFORATED PVC PIPE
CONC	CONCRETE	PRV	PRESSURE RELIEF/REDUCING VALVE
COND	CONDUIT	PRESS	PRESSURE
CONN	CONNECTION/CONNECT	PRV	PRESSURE RELIEF VALVE
CT	CLAY TREATER	PT	PAINT
CV	VERTICAL COALESCER	PT	POINT OF TANGENCY
		PTB	POWER TERMINAL BOX
DI	DROP INLET	PV	PLUG VALVE
DIA, Ø	DIAMETER	PVC	POLYVINYL CHLORIDE (PIPE)
DIP	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DISCH	DISCHARGE	PVMT	PAVEMENT
DWG	DRAWING	PVT	POINT OF VERTICAL TANGENCY
EF	EACH FACE	R	RADIUS
ELEV	ELEVATION	R/W	RIGHT OF WAY
ELEC	ELECTRICAL	RCP	REINFORCED CONCRETE PIPE
EO	ELECTRICAL CABLE (OVERHEAD)	RED	REDUCER
EOP	EDGE OF PAVEMENT	REINF	REINFORCEMENT
EU	ELECTRICAL CABLE (UNDERGROUND)	REQ'D	REQUIRED
EW	EACH WAY	RFWN	RAISED FACE WELDING NECK
EXIST	EXISTING		
		S/W	SIDEWALK
F	FUEL	SAN	SANITARY SEWER (GRAVITY)
F/S	FILTER SEPARATOR	SANF	SANITARY SEWER FORCE MAIN
FF	FINISH FLOOR	SB	TRAFFIC SIGNAL BOX
FH	FIRE HYDRANT	SG	SWITCH GAUGE
FLG	FLANGE	SHT	SHEET
FM	SANITARY SEWER FORCE MAIN	SP	TRAFFIC SIGNAL POLE
FW	FIRE WATER	SRC	SPRING RETURN CONTROL
FD.	FLOOR DRAIN	SS	SANITARY SEWER
		SSMH	SANITARY SEWER MANHOLE
G	NATURAL GAS	ST	STORM SEWER MANHOLE
GI	GALVANIZED IRON	STA	STATION
GM	GATE METER		
GPM	GALLONS PER MINUTE	TD	TRENCH DRAIN
GV	GATE VALVE	TE	TOP ELEVATION
		TF	TOP OF FOOTING ELEVATION
HDCP	HANDICAP	TG	TOP OF GRATE ELEVATION
HORZ	HORIZONTAL	TW	TOP OF WALL ELEVATION
HP	HIGH POINT	TYP	TYPICAL
HW	HEADWALL		
		U/P	UNDER PAVEMENT
ID	INSIDE DIAMETER	UND	UNDERDRAIN
INV	INVERT ELEVATION		
IPF	IRON PIN FOUND	VC	VERTICAL CURVE
IPS	IRON PIN SET	VCP	VITRIFIED CLAY PIPE
		VERT	VERTICAL
JB	JUNCTION BOX		
		W	DOMESTIC WATER
LF	LINEAR FEET	W/	WITH
LP	LIGHT POLE	WM	WATER METER

STRUCTURAL LAYOUT POINTS



STANDARD EROSION & SEDIMENT CONTROL GENERAL NOTES:

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE GEORGIA
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY. EROSION AND SEDIMENT CONTROL MANUAL.
- THE CONTRACTOR SHALL LIMIT SITE ACCESS BY CONSTRUCTION VEHICLES TO ENTRANCES PROTECTED BY A STONE CONSTRUCTION ENTRANCE OR AN APPROVED COMPARABLE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED FROM PAVED AREAS ON A DAILY BASIS.
- STOCK PILES OF SOIL AND OTHER ERODIBLE MATERIALS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION FOR STOCKPILES ON SITE AS WELL AS FOR MATERIALS TRANSPORTED FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST INCLUDING (BUT NOT LIMITED TO) USE OF WATER, MULCH, OR CHEMICAL DUST ADHESIVES AND CONTROL OF CONSTRUCTION SITE TRAFFIC.
- EFFLUENT FROM DE-WATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND CHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES, WETLANDS, WATERWAYS OR THE STORM DRAINAGE SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED NECESSARY BY THE PLAN APPROVING AUTHORITY.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS. TRAPPED SEDIMENT SHALL BE SPREAD AND SEEDED.
- WHEN THE SITE IS STABILIZED AND AT THE DIRECTION OF THE COUNTY ENGINEER, THE DEVELOPER IS TO REMOVE THE SEDIMENT BASINS AND STABILIZE THE DISTURBED AREAS.
- PERMANENT GRASSING TO BE COMPLETED WITHIN TWO WEEKS OF COMPLETION OF SITE GRADING.
- MATTING TO BE PLACED ON ALL SLOPES GREATER THAN 2.5H:1V. AND GREATER THAN 10 FEET IN HEIGHT.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY AREA THAT IS LEFT FOR 14 DAYS MUST BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- STRIPPING OF VEGETATION, REGRADING AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION.
- CUT AND FILL OPERATIONS MUST BE KEPT TO A MINIMUM.
- DEVELOPMENT PLANS MUST CONFORM TO TOPOGRAPHY AND SOIL TYPE, SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.
- WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
- DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
- TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
- PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES MUST BE INSTALLED AS SOON AS PRACTICABLE.
- SEDIMENT IN RUNOFF WATER MUST BE TRAPPED BY THE USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
- ADEQUATE PROVISIONS MUST BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.
- CUTS AND FILLS MAY NOT ENDANGER ADJOINING PROPERTY.
- FILLS MAY NOT ENCR OACH UPON NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.
- GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE, PROVIDED, IN ANY CASE, THAT SUCH CROSSINGS MUST BE KEPT TO A MINIMUM.
- IF REQUIRED, OBTAIN STATE VARIANCE. OBTAINS NP OR IP (FEDERAL).
- THE DISTURBED AREA AND DURATION OF EXPOSURE TO EROSION ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM.
- LAND DISTURBING ACTIVITY PLANS FOR EROSION AND SEDIMENTATION CONTROL SHALL INCLUDE PROVISIONS FOR CONTROL OR TREATMENT OF ANY SOURCE OF SEDIMENTS AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS.

PRIME ENGINEERING INCORPORATED

1888 EMERY STREET, N.W., SUITE 300
ATLANTA, GEORGIA 30318
404-425-7100

PROJECT:
NORTH FULTON PUMP STATION UPGRADES - GAME CREEK PUMP STATION

PREPARED FOR:
FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

NO.	DATE	DESCRIPTION
0	9/15/2006	CONSTRUCTION DOCUMENTS



DATE: 9-15-06

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CIVIL LEGEND

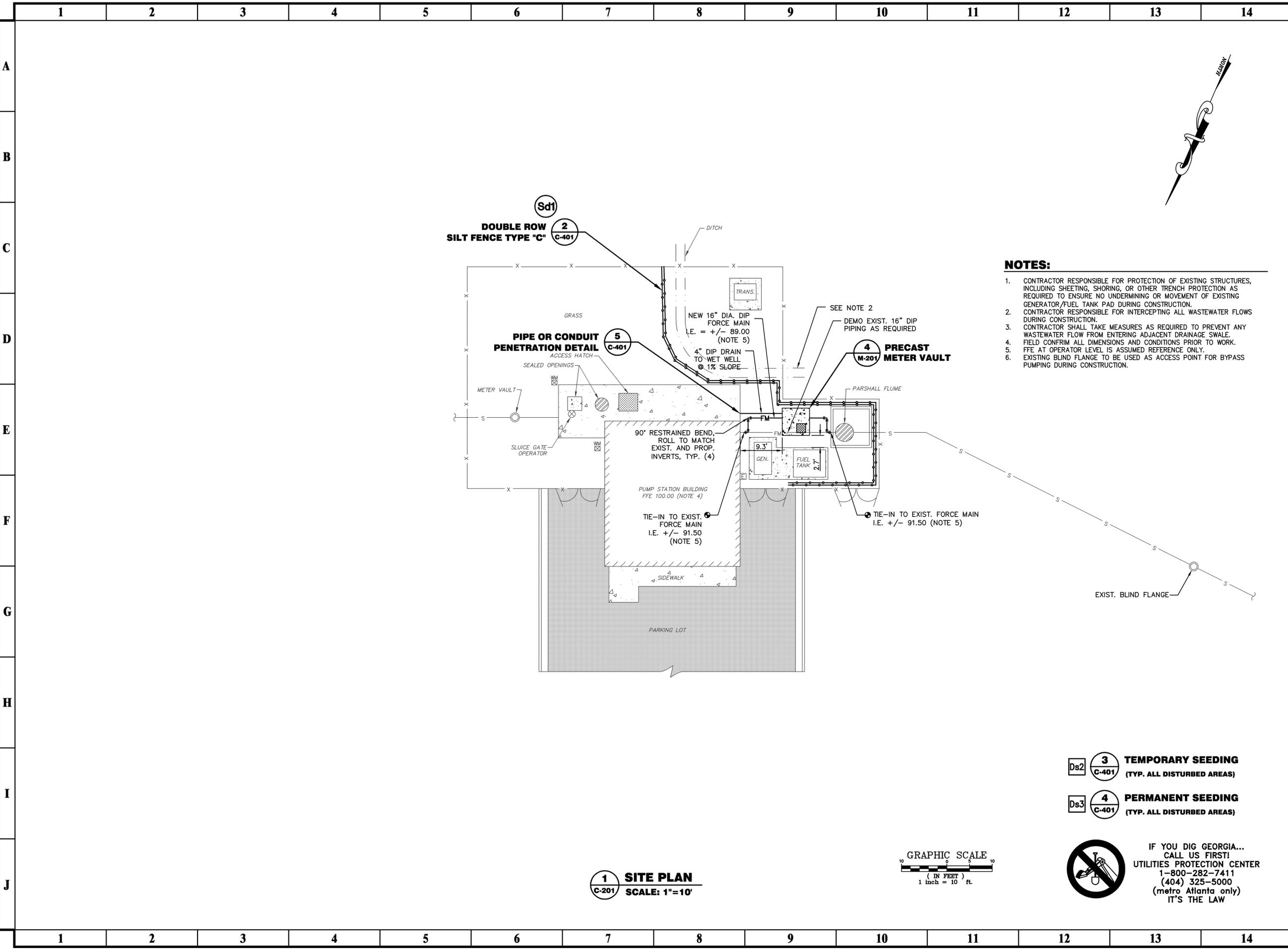
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DRAWING DATE	DRAWN BY	DESIGNED BY	CHECKED BY
09/15/06	ESD	AJS	RBW
DRAWING SCALE	PROJECT NUMBER	DRAWING NUMBER	
NOT TO SCALE	06-2015-005	C-001	

C-001

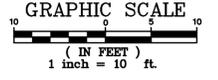
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- NOTES:**
1. CONTRACTOR RESPONSIBLE FOR PROTECTION OF EXISTING STRUCTURES, INCLUDING SHEETING, SHORING, OR OTHER TRENCH PROTECTION AS REQUIRED TO ENSURE NO UNDERMINING OR MOVEMENT OF EXISTING GENERATOR/FUEL TANK PAD DURING CONSTRUCTION.
 2. CONTRACTOR RESPONSIBLE FOR INTERCEPTING ALL WASTEWATER FLOWS DURING CONSTRUCTION.
 3. CONTRACTOR SHALL TAKE MEASURES AS REQUIRED TO PREVENT ANY WASTEWATER FLOW FROM ENTERING ADJACENT DRAINAGE SWALE.
 4. FIELD CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO WORK.
 5. FFE AT OPERATOR LEVEL IS ASSUMED REFERENCE ONLY.
 6. EXISTING BLIND FLANGE TO BE USED AS ACCESS POINT FOR BYPASS PUMPING DURING CONSTRUCTION.

1 SITE PLAN
SCALE: 1" = 10'



- 3 TEMPORARY SEEDING**
(TYP. ALL DISTURBED AREAS)
- 4 PERMANENT SEEDING**
(TYP. ALL DISTURBED AREAS)



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PRIME ENGINEERING
INCORPORATED

1888 EMERY STREET, N.W., SUITE 300
ATLANTA, GEORGIA 30318
404-425-7100

PROJECT:
NORTH FULTON PUMP STATION UPGRADES - GAME CREEK PUMP STATION
PREPARED FOR:
FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

REVISIONS	NO.	DATE	DESCRIPTION
	0	9/15/2006	CONSTRUCTION DOCUMENTS



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DRAWING TITLE
SITE PLAN
01TTFNFUMPSK-DB

DRAWING DATE	09/15/06	DRAWN BY	ESD
DRAWING SCALE	1" = 10'	DESIGNED BY	AJS
PROJECT NUMBER	06-2015-005	CHECKED BY	RBW
DRAWING NUMBER	C-201		

NOT ISSUED FOR CONSTRUCTION

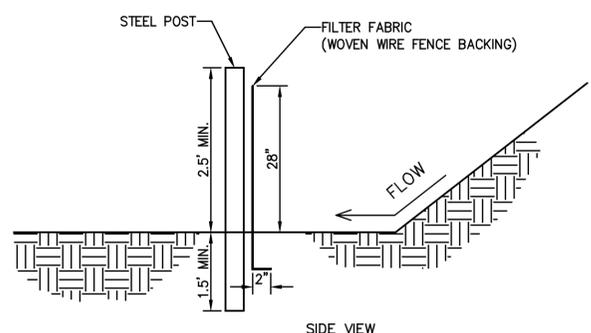
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1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
B
C
D
E
F
G
H
I
J

EROSION CONTROL LEGEND					
CODE	PRACTICE	DETAIL	CODE	PRACTICE	DETAIL
Ds1	DISTURBED AREA STABILIZATION (MULCH)	STRAW OR HAY @ 6-10" DEPTH	Sd1	SILT FENCE	2/C-401
Ds2	TEMPORARY SEEDING	3/C-401			
Ds3	PERMANENT SEEDING	4/C-401			

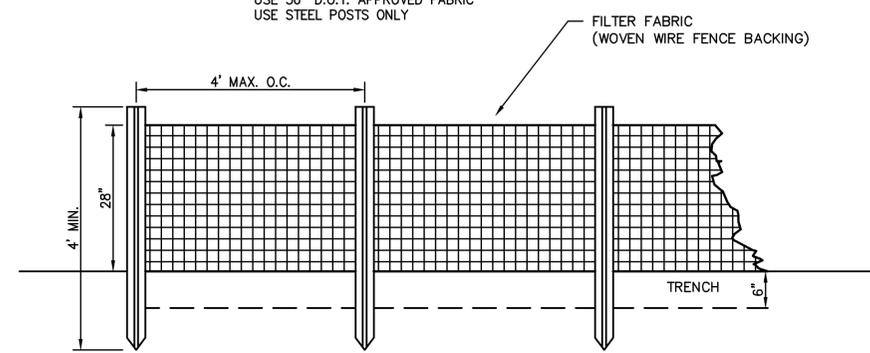
1 EROSION CONTROL LEGEND
NOT TO SCALE



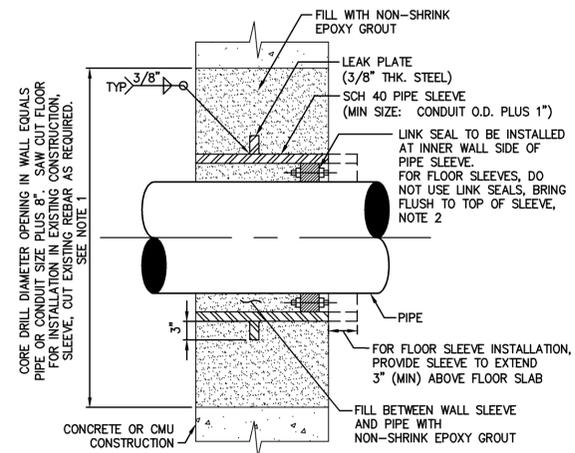
GRADE (%)	HORIZONTAL SPACING (FT)
< 2	100
2 to 5	75
5 to 10	50
10 to 20	25
> 20*	15

*IN AREAS WHERE THE SLOPE IS GREATER THAN 20%, A FLAT AREA LENGTH OF 10 FEET BETWEEN THE TOE OF THE SLOPE TO THE FENCE SHOULD BE PROVIDED.

NOTES:
USE 36" D.O.T. APPROVED FABRIC
USE STEEL POSTS ONLY



2 SILT FENCE TYPE "C"
NOT TO SCALE



CORE DRILL DIAMETER OPENING IN WALL EQUALS PIPE OR CONDUIT SIZE PLUS 8". SAW CUT FLOOR FOR INSTALLATION IN EXISTING CONSTRUCTION. SLEEVE, CUT EXISTING REBAR AS REQUIRED. SEE NOTE 1

NOTES:
1. PIPE SLEEVES TO BE CAST IN PLACE WITH NEW WALLS OR SLABS AS APPLICABLE. CORE DRILL FOR EXISTING CONSTRUCTION ONLY.

5 PIPE OR CONDUIT PENETRATION DETAIL
NOT TO SCALE

TEMPORARY SEEDING Ds2						
EROSION CONTROL SEEDING NOTES						
CONTRACTOR TO PROTECT ALL DISTURBED AREAS BY TEMPORARY RESEEDING UNTIL PERMANENT GROUND COVER IS ESTABLISHED. (MAXIMUM OF 2 WEEKS AFTER DISTURBANCE).						
AREA	DATES	SPECIES	SEEDING RATES	FERTILIZER	LIME	MAINTENANCE
FLAT TO ROLLING TERRAIN WITH SLOPES LESS THAN 3:1	8/15-4/15	ANNUAL RYE GRASS	40#/AC 0.9#/1000 SF	12#/AC (10-10-10)	45#	7# (10-10-10)
	4/15-8/15	PEARL MILLET	50#/AC 1.1#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
EMBANKMENTS WITH SLOPES 3:1 OR STEEPER	3/1-7/31	WEeping LOVE GRASS	4#/AC 0.1#/1000 SF	12#/AC (10-10-10)	45#	7# (10-10-10)
	3/1-2/29	TALL FESCUE	70#/AC 1.6#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)

NOTE: ALL GRASSING SHALL MATCH SPECIES OF EXISTING LOT/PARCEL

3 TEMPORARY SEEDING
NOT TO SCALE

PERMANENT SEEDING Ds3						
EROSION CONTROL SEEDING NOTES						
AREA	DATES	SPECIES	SEEDING RATES	FERTILIZER	LIME	MAINTENANCE
FLAT TO ROLLING TERRAIN WITH SLOPES LESS THAN 3:1	2/15-8/14	COMMON BERMUDA (HULLED SEED)	10#/AC 0.2#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
	2/15-8/14	COMMON BERMUDA (UNHULLED SEED)	10#/AC 0.2#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
	8/15-2/14	COMMON BERMUDA (UNHULLED SEED)	10#/AC 0.2#/1000 SF	12#/AC (10-10-10)	45#	10# (10-10-10)
	8/15-2/4	TALL FESCUE	50#/AC 1.1#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
EMBANKMENTS WITH SLOPES 3:1 OR STEEPER	3/1-7/31	WEeping LOVE GRASS	4#/AC 0.1#/1000 SF	35#/AC 6-12-12)	45#	10# (10-10-10)
	3/1-7/31	LESPEDEZA SERICEA (SCARIFIED)	60#/AC 1.4#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)
	8/1-2/29	LESPEDEZA SERICEA (UNSCARIFIED)	75#/AC 1.7#/1000 SF	35#/AC (6-12-12)	45#	01# (10-10-10)
	8/1-2/29	TALL FESCUE	50#/AC 1.1#/1000 SF	35#/AC (6-12-12)	45#	10# (10-10-10)

NOTE: ALL GRASSING SHALL MATCH SPECIES OF EXISTING LOT/PARCEL

4 PERMANENT SEEDING
NOT TO SCALE

PRIME ENGINEERING
INCORPORATED
1888 EMERY STREET, N.W., SUITE 300
ATLANTA, GEORGIA 30318
404-425-7100

PROJECT:
NORTH FULTON PUMP STATION UPGRADES - GAME CREEK PUMP STATION
PREPARED FOR:
FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

REVISIONS	NO.	DATE	DESCRIPTION
	0	9/15/2006	CONSTRUCTION DOCUMENTS



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DRAWING TITLE
CIVIL DETAILS
07LBNFPUMP/PSK/DB

DRAWING DATE	09/15/06	DRAWN BY	ESD
DRAWING SCALE	NOT TO SCALE	DESIGNED BY	AJS
PROJECT NUMBER	06-2015-005	CHECKED BY	RBW
DRAWING NUMBER	C-401		

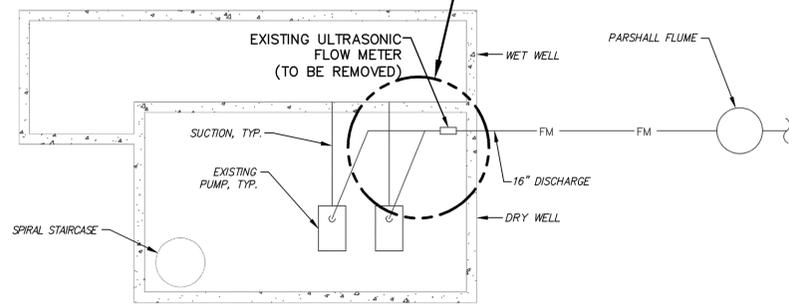
NOT ISSUED FOR CONSTRUCTION

R:\2015-005 North Fulton Pump Station Upgrades\dwg\Game Creek\M201-2015-005-GC.dwg Thu, 09/21/06 10:22 AM

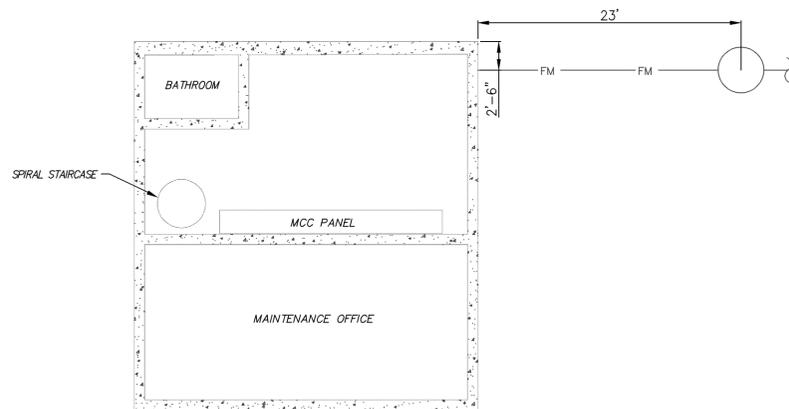
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
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J

**METER PARTIAL DEMOLITION PLAN
HEADER PARTIAL PLAN** 2/3
M-201

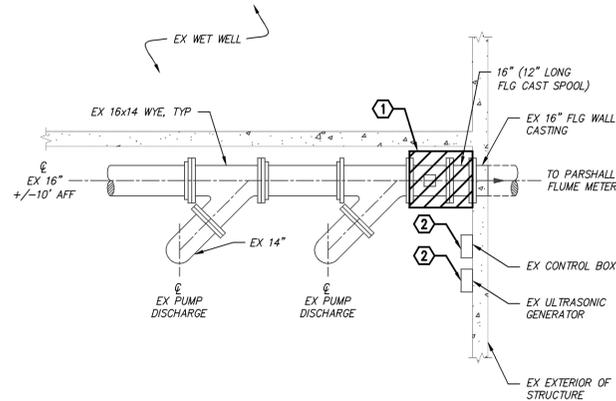


WET WELL / DRY WELL LEVEL

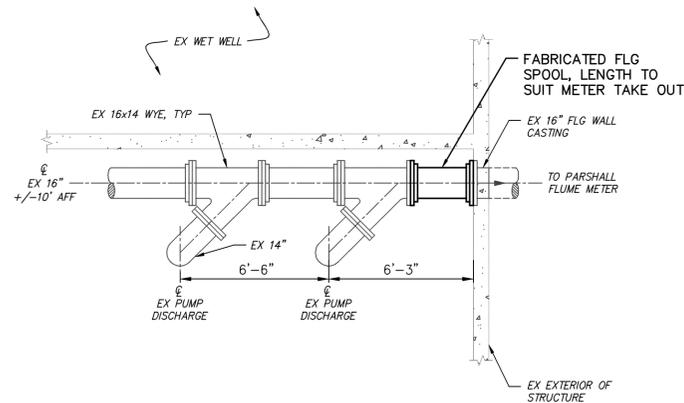


CONTROL LEVEL

1
M-201 **EXISTING PUMP STATION FLOOR PLAN**
SCALE: 1/8"=1'-0"



2
M-201 **METER PARTIAL DEMOLITION PLAN**
SCALE: 1/4"=1'-0"



3
M-201 **HEADER PARTIAL PLAN**
SCALE: 1/4"=1'-0"

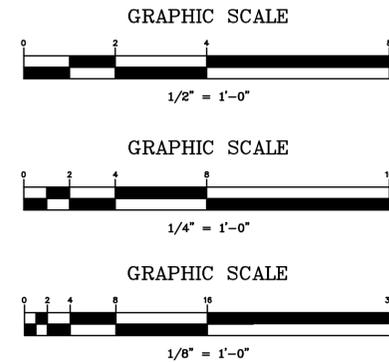
NOTES:

1. FIELD CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO WORK.
2. CONTRACTOR RESPONSIBLE FOR INTERCEPTING ALL WASTEWATER FLOWS DURING CONSTRUCTION. SEE FLOW RANGE TABLE ON SHEET G-001 FOR APPROXIMATE BYPASS PUMPING REQUIREMENTS.

KEY NOTES: (THIS SHEET ONLY)

- ① REMOVE EXISTING ULTRASONIC METER AND SPOOL (AS REQUIRED).
- ② REMOVE EXISTING METER CONTROL BOXES AND CONDUCTORS (SEE ELECTRICAL).

4
M-201 **PRECAST METER VAULT**
SCALE: 1/2"=1'-0"



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404.425.7100

PROJECT:
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PREPARED FOR:
FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

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	0	9/15/2006	CONSTRUCTION DOCUMENTS

SEAL

DATE: 9-15-06

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DRAWING TITLE
MECHANICAL PLAN
07TIRNFPMPSK-DB

DRAWING DATE	09/15/06
DRAWN BY	ESD
DRAWING SCALE AS SHOWN	1/8" = 1'-0"
DESIGNED BY	AJS
PROJECT NUMBER	06-2015-005
CHECKED BY	RBW
DRAWING NUMBER	M-201

NOT ISSUED FOR CONSTRUCTION

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ELECTRICAL & INSTRUMENTATION LEGEND

GENERAL LINEWORK SYMBOLS

- NEW FACILITIES
- EXISTING FACILITIES TO REMAIN
- EXISTING FACILITIES TO BE REMOVED
- EQUIPMENT OR PACKAGE BOUNDARY

CIRCUIT AND RACEWAY SYMBOLS

- RACEWAY IDENTIFIER—SEE RACEWAY SCHEDULE, REF. 1
- RACEWAY OR WIRING SYSTEM ABOVE FLOOR LEVEL BELOW CEILING, EXPOSED UON.
- RACEWAY OR WIRING SYSTEM ABOVE FLOOR LEVEL CONCEALED IN WALL OR ABOVE CEILING UON.
- RACEWAY OR WIRING SYSTEM IN OR UNDER FLOOR, OR CONCEALED IN OR BEHIND STRUCTURE OR EQUIPMENT
- RACEWAY OR WIRING SYSTEM TURNED TOWARD THE VIEWER (UP ON PLAN DRAWINGS)
- RACEWAY OR WIRING SYSTEM TURNED AWAY FROM THE VIEWER (DOWN ON PLAN DRAWINGS)
- RACEWAY OR WIRING SYSTEM CHANGE IN ELEVATION OR DISTANCE FROM VIEWER
- CONDUIT STUB AND CAP
- DUCT BANK, REINFORCED CONCRETE UON.
DUCT BANK IDENTIFIER—SEE DUCT BANK SCHEDULE, REF. 6
EXAMPLE: DUCT BANK 123
- MANHOLE (MH) OR HANDHOLE (HH)
- JUNCTION BOX WITH OPTIONAL IDENTIFIER.
- PULL BOX WITH OPTIONAL IDENTIFIER
- HOME RUN — SEE PANELBOARD SCHEDULE FOR CIRCUIT INFORMATION
EXAMPLE: HOME TO PANELBOARD PBD A, CIRCUITS 1, 3, AND 5

- LIGHTING, RECEPTACLE, AND MISCELLANEOUS BRANCH CIRCUITING NOT SPECIFIED IN RACEWAY SCHEDULE: RUNS WITHOUT HATCH LINES SHALL CONTAIN TWO WIRES OF MINIMUM SIZE REQUIRED BY THE SPECS FOR THAT SYSTEM UNLESS OTHERWISE NOTED. OTHER CONDUCTOR QUANTITY SPECIFIED WITH HATCH LINES:
- NEUTRAL CONDUCTOR, IF USED—HALF STROKE PHASE CONDUCTORS, AS APPLICABLE—FULL STROKE
- EQUIPMENT GROUNDING CONDUCTOR ALWAYS REQUIRED. FOR MINIMUM SIZE PERMITTED REFER TO NEC TABLE 250-95.
- CONDUIT FILL PER NEC OR MINIMUM SIZE OF 3/4 INCH EXPOSED, 1 INCH ALL OTHER INSTALLATIONS, EXCEPT FLEX — 3/4 INCH.

GROUNDING SYMBOLS

- GROUND ROD, 3/4" x 10'-0", COPPERCLAD (UNLESS OTHERWISE NOTED)
- GROUND ROD AND WELL
- GROUND CONNECTION, BOLTED TYPE
- GROUND CONNECTION, COMPRESSION TYPE
- GROUNDING CONDUCTOR

LIGHTING SYMBOLS

- NOTE: LIGHTING FIXTURE SHAPES AND SCALE ARE REPRESENTED WHERE POSSIBLE. THE EXAMPLES SHOWN BELOW ARE TYPICAL APPLICATIONS.
- 16'-6" CEILING HEIGHT
101 ROOM NUMBER (ARCH DWGS)
PUMP ROOM OPTIONAL ROOM TITLE
 - 2 FIXTURE TYPE IDENTIFIER. TYPE APPLIES TO ALL FIXTURES OF THE SAME SHAPE WITHIN A ROOM OR AN AREA UNLESS OTHERWISE NOTED. REFER TO LIGHTSPEC, REF. 5
 - 2/40 NUMBER OF SIMILAR FIXTURE
 - 8'6" PENDANT MOUNTING HEIGHT, FLOOR TO BOTTOM OF FIXTURE, OR AHAP
 - NUMBER OF LAMPS/LAMP WATTAGE
 - FIXTURE TYPE
- FLUORESCENT FIXTURES:
- RECESSED IN CEILING. J-BOX, FLEX, AND CONNECTION SHOWN.
 - FLOODLIGHT (AIMED AS INDICATED)
 - FLUORESCENT STRIPLIGHT. J-BOX SHOWN.
 - FIXTURE ON UNSWITCHED CIRCUIT (NIGHT LIGHT etc.)
"n" = NON-SWITCHED CIRCUIT
- INCANDESCENT/HID FIXTURES:
- RECESSED OR SURFACE
 - POLE OR STANCHION MOUNTED
 - WALL MOUNTED
 - DIRECTIONAL LIGHT
 - POLE-MOUNTED AREA LIGHT. ONE POLE AND TWO FIXTURES SHOWN. OPTIONAL POLE NUMBER SHOWN. EXAMPLE: POLE NUMBER 14.
 - EMERGENCY LIGHTING UNIT, SELF-CONTAINED
- EXIT LIGHTS. DARK QUADRANTS INDICATE FACES ILLUMINATED:
- SURFACE ON CEILING
 - WALL MOUNTED, AT +8'0 UON
 - WITH DIRECTIONAL ARROWS
- LIGHTING CONTROL:
- 3a LTG CIRCUIT IDENTIFIER: WHEN SHOWN ADJACENT TO FIXTURE IDENTIFIES CIRCUIT NUMBER AND SWITCH. eg. CIRCUIT 3, CONTROLLED BY SWITCH a.
"n" = NON-SWITCHED CIRCUIT

DISTRIBUTION EQUIPMENT SYMBOLS

- GENERAL: APPROXIMATE SHAPE AND SCALE REPRESENTED WHERE POSSIBLE, HOWEVER EXACT SIZE AND NUMBER OF SECTIONS IS ESTIMATED
- FLOOR-STANDING DISTRIBUTION ASSEMBLY, SUCH AS A SWITCHBOARD, TRANSFORMER, OR MOTOR CONTROL CENTER
 - EQUIPMENT NUMBER (EXAMPLE)
 - WALL-MOUNTED DISTRIBUTION ASSEMBLY, SUCH AS PANELBOARD, MOTOR STARTER PANEL, OR TERMINAL CABINET
 - EQUIPMENT NUMBER (EXAMPLE)

WIRING DEVICE SYMBOLS

- GENERAL: UNLESS OTHERWISE NOTED, ALL SWITCHES ARE WALL MOUNTED AT 4'-0"
- SINGLE POLE SWITCH. 20 AMP UNLESS OTHERWISE NOTED.
 - GANGED SWITCHES—IN COMMON BOX, WITH COMMON WALL PLATE
 - SWITCH SUPERScript MODIFIER. LOWER CASE LETTER. INDICATES CIRCUIT CONTROLLED—a,b,c,etc. MAY BE COMBINED WITH CIRCUIT NUMBER. EXAMPLE: 1a, 4b, etc.
 - SWITCH SUBSCRIPT MODIFIER. UPPER CASE LETTER OR NUMBER:
2 = DOUBLE POLE
3 = THREE WAY
4 = FOUR WAY
K = KEY OPERATED
MC = MOMENTARY CONTACT, THREE POSITION
MS = MANUAL (MOTOR) STARTER OR SWITCH
R = RHEOSTAT (DIMMER, SPEED CONTROL)
- GENERAL: UNLESS OTHERWISE NOTED, ALL RECEPTACLES ARE 125 VOLT, SINGLE PHASE, STRAIGHT BLADE, NON-LOCKING, GROUNDING STYLE, MOUNTED AT +1'-6".
- DUPLEX RECEPTACLE, 2 POLE, 3 WIRE
 - RECEPTACLE MODIFIERS:
F = FLOOR MOUNTED
H = HAZARDOUS AREA, EXPLOSION PROOF
WP = OUTDOOR, WEATHER PROOF
 - SPECIAL OUTLET OR JACK FOR DO PROBE
 - RECESSED FLOOR RECEPTACLE—ANY RECEPTACLE INSIDE A SQUARE. eg DUPLEX
 - SURFACE FLOOR RECEPTACLE—ANY RECEPTACLE INSIDE A TRIANGLE. eg DUPLEX
 - GANGED RECEPTACLES—IN COMMON BOX, WITH COMMON WALL PLATE. eg DUPLEX
 - WELDING RECEPTACLE, 60A, 600V AC, 4 WIRE

MOTOR AND EQUIPMENT SYMBOLS

- MOTOR CONNECTION
- MOTOR STARTER, INDIVIDUAL—NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY
- COMBINATION MOTOR STARTER—NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY
- DISCONNECT, NON-FUSED. PROVISION FOR CLASS R FUSES.
- UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES ARE HEAVY DUTY, SINGLE THROW, WITH NEMA 4X ENCLOSURE. MOUNT AT 4'-8" TO CENTER UON.
- FIELD INSTRUMENT CONNECTION
- HAND STATION. CONFIGURATION ACCORDING TO CONTROL DIAGRAMS.

TELEPHONE SYSTEM SYMBOLS

- GENERAL: UNLESS OTHERWISE NOTED, TELEPHONE OUTLETS ARE MOUNTED AT +1'-2", MATCHING RECEPTACLE HEIGHT.
- EXTERNAL LINE OR PLANT PHONE SYSTEM OUTLET
 - MODIFIERS:
A = ATTENDANT'S CONSOLE
F = FUTURE INSTRUMENT
J = JACK, PLUG-IN TYPE
W = WALL INSTRUMENT. +5'-0"
 - CONDUIT, SIZED AS NOTED
 - MODIFIERS:
T = TELEPHONE

GENERAL ABBREVIATIONS

- | | | | |
|--------|--|--------|--|
| AR | ALARM RELAY | M | MOTOR CONTACTOR |
| AS | AMMETER SELECTOR SWITCH | mA | MILLIAMPERE |
| A, AMP | AMP(S), AMPERE(S) | MAX | MAXIMUM |
| AC | ALTERNATING CURRENT | MCC | MOTOR CONTROL CENTER |
| AFF | ABOVE FINISHED FLOOR | MCP | MOTOR CONTROL PANEL/MOTOR CIRCUIT |
| AHAP | AS HIGH AS POSSIBLE | MECH | MECHANICAL PROTECTOR |
| AIC | AMPS INTERRUPTING CAPACITY, SYMM. | MFR | MANUFACTURE(R) |
| AL | ALUMINUM | MH | MANHOLE |
| AT | AMPERE TRIP | MIC | MICROPHONE |
| AF | AMPERE FRAME | MIN | MINIMUM |
| AUTO | AUTOMATIC | MISC | MISCELLANEOUS |
| AUX | AUXILIARY | mM | MILLIMETER |
| AWG | AMERICAN WIRE GAUGE | mV | MILLIVOLT |
| BC | BARE COPPER CONDUCTOR | MCM | MILLI CIRCULAR MILLS |
| BKR | BREAKER | MPR | MOTOR PROTECTION RELAY |
| | | MTR | MOTOR |
| C | CONDUCTOR/CONTACTOR | N/A | NOT APPLICABLE |
| CAP | CAPACITOR | NC | NORMALLY CLOSED |
| CB | CIRCUIT BREAKER | NEUT,N | NEUTRAL |
| CKT | CIRCUIT | NIC | NOT IN CONTRACT |
| CLG | CEILING | NO. | NUMBER |
| CR | CONTROL RELAY | NOM | NOMINAL |
| CND | CONDUIT | NP | NAMEPLATE |
| CONC | CONCRETE | NTS | NOT TO SCALE |
| CONT | CONTROL | | |
| CPT | CONTROL POWER TRANSFORMER | OC | ON CENTER |
| CT | CURRENT TRANSFORMER | OD | OUTSIDE DIAMETER |
| CU | COPPER | OH | OVERHEAD |
| | | OL'S | OVERLOADS |
| D | DIAMETER | OT | OILTIGHT |
| DB | DUCT BANK | | |
| DC | DIRECT CURRENT | P | POLE |
| DET | DETAIL | PA | PUBLIC ADDRESS |
| DIAG | DIAGRAM | PB | PUSHBUTTON, PULLBOX |
| DS | DISCONNECT SWITCH | PF | POWER FACTOR |
| DWG | DRAWING | PH | PHASE |
| | | PLC | PROGRAMMABLE LOGIC CONTROLLER |
| EA | EACH | PNL | PANEL |
| EL | ELEVATION | PP | POWER PANEL |
| ELEC | ELECTRIC(AL) | PR | PAIR |
| EMER | EMERGENCY | PRI | PRIMARY |
| ENCL | ENCLOSURE/ENCLOSED | PT | POTENTIAL TRANSFORMER |
| EP | EXPLOSIONPROOF | PVC | POLYVINYL CHLORIDE |
| EQPT | EQUIPMENT | PWR | POWER |
| EX | EXISTING | | |
| FDR | FEEDER | RCPT | RECEPTACLE |
| FLA | FULL LOAD AMPS | REF | REFERENCE |
| FR | FORWARD/REVERSE | REQD | REQUIRED |
| FS | FLOW SWITCH | RMS | ROOT MEAN SQUARE |
| FU | FUSE | RTD | RESISTANCE TEMPERATURE DETECTOR |
| FUT | FUTURE | | |
| FVNR | FULL VOLTAGE NON-REVERSING | SCH | SCHEDULE |
| FVR | FULL VOLTAGE REVERSING | SEC | SECONDARY |
| | | SEL | SELECTOR |
| GALV | GALVANIZED | SPDT | SINGLE POLE DOUBLE THROW |
| GEN | GENERATOR | SPEC | SPECIFICATION |
| GFI | GROUND FAULT INTERRUPTER | SPKR | SPEAKER |
| GRD | GROUND | SS | SPEED SWITCH |
| GRS | GALVANIZED RIGID STEEL | SUB | SUBSTATION |
| H | HIGH | SW | SWITCH |
| HGT | HEIGHT | SYMM | SYMMETRICAL |
| HH | HANDHOLE | SYS | SYSTEM |
| HID | HIGH INTENSITY DISCHARGE | SYS | SOLENOID OPERATED VALVE |
| HP | HORSEPOWER | SPB | SIGNAL PULL BOX |
| HS | HAND SWITCH | | |
| HVAC | HEATING, VENTILATION, AND AIR CONDITIONING | TB | TERMINAL BOX |
| HZ | HERTZ (CYCLES PER SECOND) | TEL | TELEPHONE |
| HOA | HAND/OFF/AUTO | TEMP | TEMPERATURE |
| HMH | HIGH VOLTAGE MANHOLE | TFR | TRANSFORMER |
| ICOM | INTERCOM HANDSET | TH | THERMOSTAT |
| ID | INSIDE DIAMETER | TSH | TEMPERATURE SWITCH HIGH |
| IMC | INDIVIDUAL MOTOR CONTROLLER | TV | TELEVISION |
| INTLK | INTERLOCK | TYP | TYPICAL |
| INST | INSTANTANEOUS INSTRUMENT | TR | TIMING RELAY |
| INSTR | INSTRUMENT | TR | UNDERGROUND |
| I/O | INPUT-OUTPUT | U/G | UNLESS OTHERWISE NOTED |
| JB | JUNCTION BOX | UON | |
| KV | KILOVOLT | | |
| KVA | KILOVOLT-AMPERE | V | VOLT |
| KVAR | KILOVOLT-AMPERE REACTIVE | VA | VOLTAMPERE |
| KW | KILOWATT | VAR | VOLTAMPERE REACTIVE |
| KWH | KILOWATT-HOUR | VFD | VARIABLE FREQUENCY DRIVE |
| | | VS | VOLTMETER SELECTOR SWITCH |
| L-O-R | LOCAL-OFF-REMOTE | W | WATT, WIRE, WIDE |
| L | LONG | W/ | WITH |
| LC | LIGHTING CONTACTOR | W/O | WITHOUT |
| LCS | LOCAL CONTROL STATION | WP | WEATHERPROOF |
| LP | LEGEND PLATE | WSH | OVERLOAD TORQUE SWITCH |
| LOS | LOCK-OUT STOP | WSH | SHEAR PIN LIMIT SWITCH |
| LSL | LEVEL SWITCH LOW | | |
| LTG | LIGHTING | XS | MISCELLANEOUS (VIBRATION, ETC.) SWITCH |
| LV | LOW VOLTAGE | ZS | POSITION (LIMIT) SWITCH |
| LSH | LEVEL SWITCH HIGH | | |

PRIME ENGINEERING
INCORPORATED

PROJECT: NORTH FULTON PUMP STATION UPGRADES - GAME CREEK PUMP STATION
PREPARED FOR: FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

NO.	DATE	DESCRIPTION
0	9/15/2006	CONSTRUCTION DOCUMENTS



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ELECTRICAL & INSTRUMENTATION LEGEND

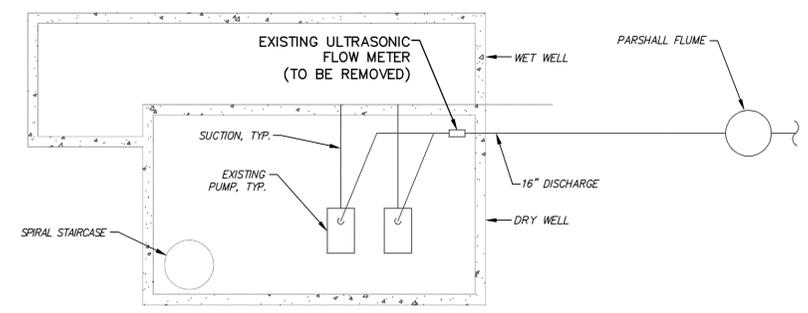
DRAWING DATE	09/15/06
DRAWING SCALE	NOT TO SCALE
PROJECT NUMBER	06-2015-005
DRAWING NUMBER	E-001
DRAWN BY	CDR
DESIGNED BY	CDR
CHECKED BY	AKR
NOT ISSUED FOR CONSTRUCTION	

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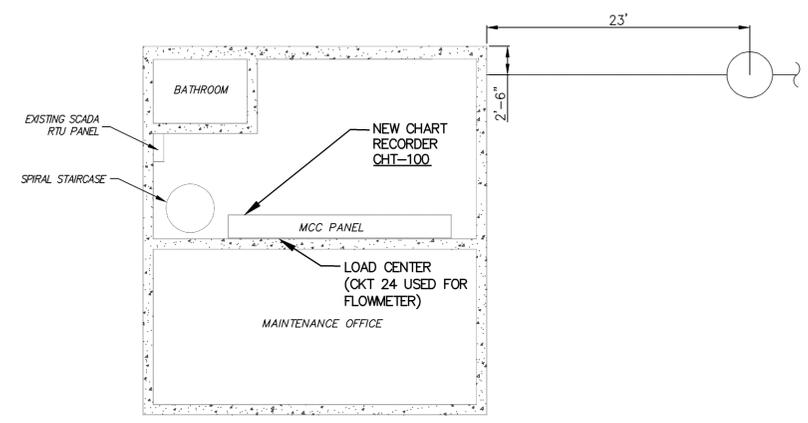
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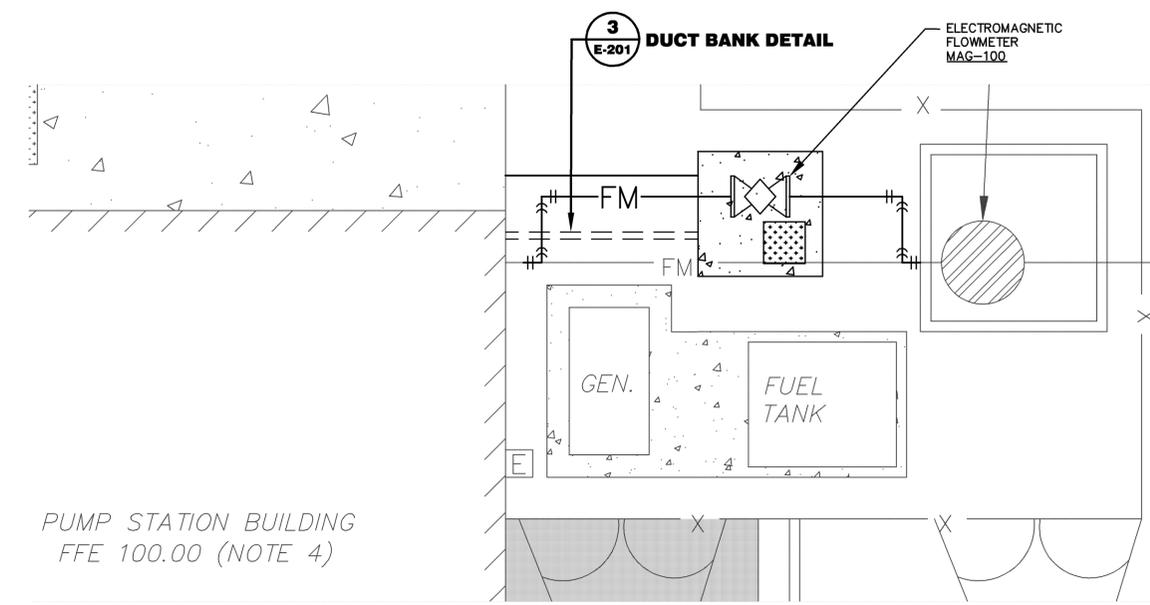


WET WELL / DRY WELL LEVEL

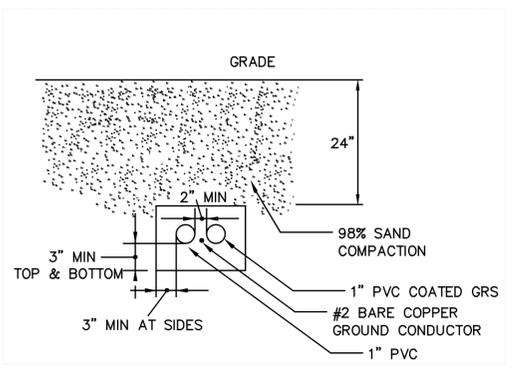


CONTROL LEVEL

1 EXISTING PUMP STATION FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 CONDUIT RUN DETAIL
SCALE: NOT TO SCALE



3 DUCT BANK DETAIL
SCALE: NOT TO SCALE

NOTES:

- ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, MINIMUM OF 3/4". ALL BURIED CONDUIT SHALL BE PVC COATED RIGID, MINIMUM OF 1".
- ALL FITTINGS SHALL BE CAST WITH THREADED HUBS. ALL CONNECTIONS SHALL BE COMPRESSION TYPE.
- THE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES, AND SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY PROVIDING SERVICE. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND/OR INSPECTIONS AS REQUIRED BY FULTON COUNTY.
- ALL WIRING SHALL BE STRANDED COPPER CONDUCTOR WITH 600 VOLT TYPE THWN-2 INSULATION.
- ALL EXISTING CONDUITS SHALL BE USED IF PERMITTED.
- THE NEW ELECTROMAGNETIC FLOW METER MAG-100 SHALL BE 16" KROHNE IFS 4000 KC. SIGNAL CONVERTER SHALL BE MOUNTED SEPARATELY. FLOW METER WILL BE SUBMERGENCE RATED SINCE THE UNIT SHALL BE LOCATED IN THE PRECAST METER VAULT.
- CIRCUIT 24 LOCATED INSIDE OF EXISTING MCC LOADCENTER SUPPLIES THE EXISTING FLOW METER POWER AND SHALL BE USED TO SUPPLY POWER FOR THE NEW ELECTROMAGNETIC FLOW METER MAG-100.
- THE NEW ELECTROMAGNETIC FLOW METER MAG-100 SIGNAL SHALL BE WIRED UP TO THE EXISTING DEXTOR FORTSON RTU ANALOG INPUT 1.
- THE EXISTING CHART RECORDER SHALL BE REPLACED WITH NEW 8" CIRCULAR CHART RECORDER CHT-100 PROGRAMMED TO ACCEPT 4-20mA TO RECORD FLOW RATES. IT SHALL ALSO BE MOUNTED ON THE MCC LIKE THE EXISTING CHART RECORDER. PROVIDE SPLITTER TO SPLIT 4-20mA SIGNAL FROM ELECTROMAGNETIC FLOW METER MAG-100 TO EXISTING SCADA RTU. SIGNAL TO RTU CAN BE RUN IN EXISTING CONDUIT.
- GROUND NEW ELECTROMAGNETIC FLOW METER MAG-100 TO THE GROUND GRID.

DUCT BANK NOTES:

- RUN 1" PVC CONDUIT WITH 2#12 & 1#12 GND FROM NEW FLOW METER TO EXISTING CIRCUIT 24 IN LOADCENTER LOCATED ON THE CONTROL LEVEL.
- RUN 1" PVC COATED GRS WITH 1 PAIR #16 TWISTED SHIELDED FROM NEW ELECTROMAGNETIC FLOW METER MAG-100 TO NEW CHART RECORDER CHT-100 LOCATED ON THE CONTROL LEVEL.
- DUCT BANK SHALL RUN BETWEEN PRECAST METER VAULT AND THE PUMP STATION BUILDING.
- CONDUIT SHALL RUN EXPOSED INSIDE THE DRY WELL ALONG THE CEILING AND STUB-UP AT THE RESPECTIVE LOCATIONS.

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PROJECT:
NORTH FULTON PUMP STATION UPGRADES - GAME CREEK PUMP STATION
PREPARED FOR:
FULTON COUNTY DEPARTMENT OF PUBLIC WORKS

NO.	DATE	DESCRIPTION
0	9/15/2006	CONSTRUCTION DOCUMENTS

SEAL

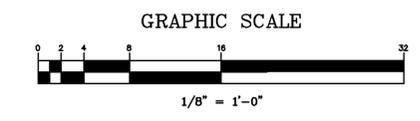
 DATE: 09/15/06

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DRAWING TITLE
ELECTRICAL & INSTRUMENTATION PLAN
0710ENPUMP/PSK-DB

DRAWING DATE	09/15/06	DRAWN BY	CDR
DRAWING SCALE	NOT TO SCALE	DESIGNED BY	CDR
PROJECT NUMBER	06-2015-005	CHECKED BY	AKR
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E-201
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