

ENERGY COVE WAREHOUSE

FOR

WIGGINS GROUP

1340 ENERGY COVE, GREEN COVE SPRINGS, FL 32043

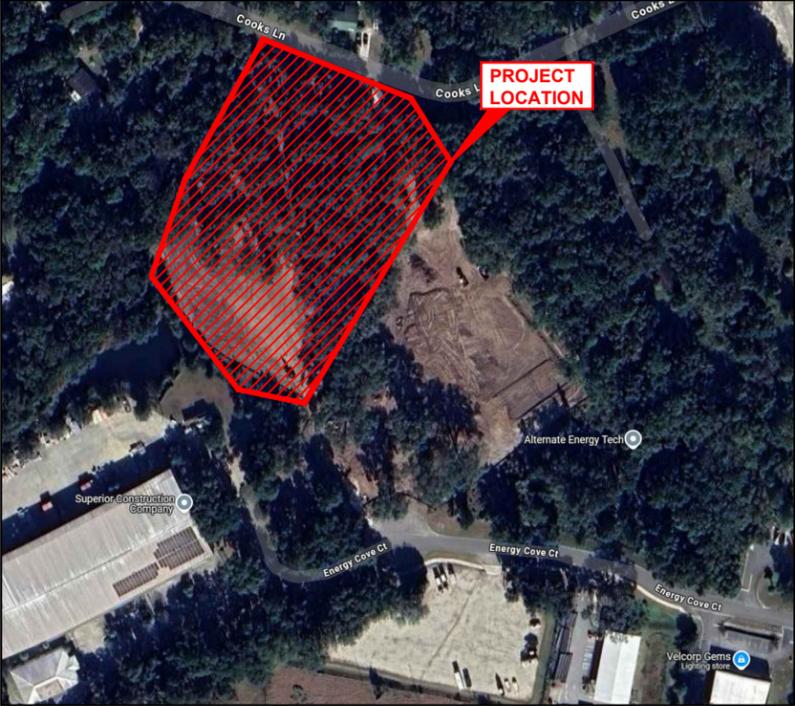
CLAY COUNTY

PROJECT OWNER AND CONSULTANTS

OWNER: Wiggins Group
Mr. Bryant Wiggins
91 Branscomb Road, Suite 17
Green Cove Springs, FL 32043

SURVEYOR: Bartram Trail Surveying, INC
1501 CR 315, Suite 106
Green Cove Springs, FL 32043
TEL: 904-284-2224

ENGINEER: Tocol Engineering,
a Baxter & Woodman Company
John J. Mahoney III, P.E.
714 North Orange Avenue
Green Cove Springs, FL 32043
TEL: 815-459-1260



INDEX OF DRAWINGS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 EXISTING CONDITIONS
- 4 EXISTING DRAINAGE MAP
- 5 DEMOLITION PLAN
- 6 EROSION CONTROL DETAILS
- 7 GEOMETRY PLAN
- 8 GRADING PLAN
- 9 DRAINAGE PLAN
- 10 DRAINAGE DETAILS
- 11 UTILITY PLAN
- 12 UTILITY DETAILS
- 13 MISCELLANEOUS DETAILS
- 14 SWPPP CONTRACTOR REQUIREMENTS
- 15 SWPPP CONTRACTOR CERTIFICATION

LOCATION MAP

N.T.S.

B&W JOB NO: 2500947
CLIENT CODE: WIGCO



CALL BEFORE YOU DIG
800-432-4770



714 NORTH ORANGE AVENUE, GREEN COVE SPRINGS, FL 32043
TEL: 815-459-1260 E.B. NUMBER: 26383

PERMIT PLANS

February 4, 2026

JOHN J. MAHONEY III, P.E.
FLA. REGISTERED ENGINEER, #40177

- LEGEND**
-  AREAS WHERE NEW CONCRETE CONSTRUCTION IS TO OCCUR
 -  AREAS WHERE NEW ASPHALT CONSTRUCTION IS TO OCCUR
 -  WETLAND AREA
 -  WETLAND BUFFER
 -  PROPERTY BOUNDARY
 -  NUMBER OF STANDARD PARKING SPACES

NOTE: FOR ADA PARKING AND SIDEWALK DETAILS SEE MISC. DETAILS

SITE DATA:

PROPERTY AREA:	4.60 AC.
IMPERVIOUS AREA:	2.66 AC.
% IMPERVIOUS:	57.82%
BUILDING AREA:	1.10 AC.
CONCRETE AREA:	0.64 AC.
ASPHALT AREA:	0.97 AC.
POND AREA:	0.50 AC.
REQUIRED PARKING:	24 UNITS
PROVIDED PARKING:	36 UNITS

PARCEL LINE TABLE

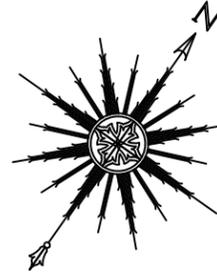
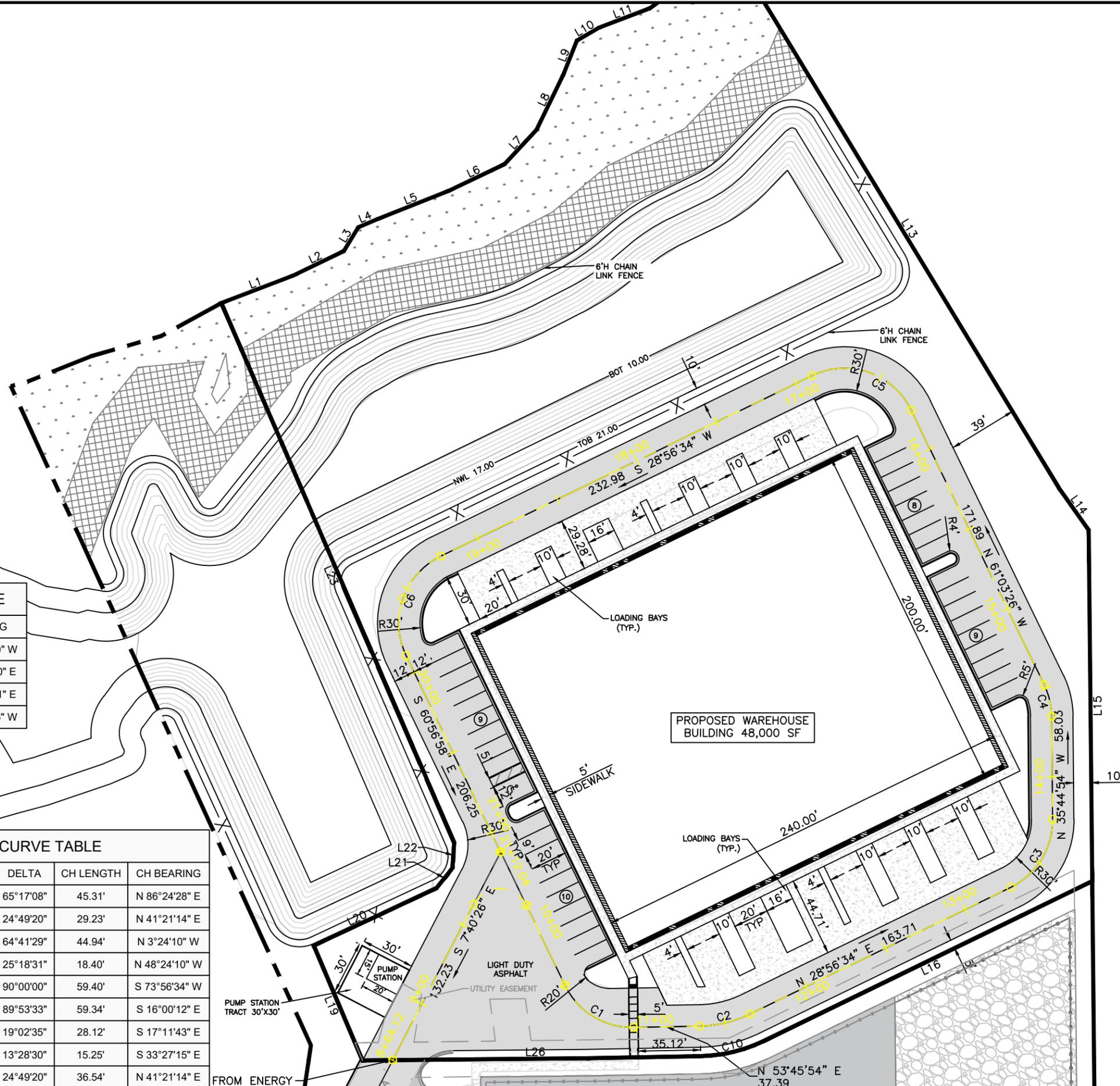
LINE #	LENGTH	BEARING
L1	43.13'	N 33°55'06" E
L2	32.01'	N 29°07'30" E
L3	15.73'	N 3°53'09" W
L4	12.00'	N 31°48'50" E
L5	42.89'	N 33°14'05" E
L6	35.05'	N 29°22'37" E
L7	26.38'	N 7°49'29" E
L8	34.58'	N 9°10'45" W
L9	20.78'	N 13°14'16" W
L10	14.41'	N 24°34'17" E
L11	30.73'	N 33°56'59" E
L12	43.53'	N 18°54'00" E
L13	337.27'	S 66°28'21" E
L14	29.19'	S 70°27'26" E
L15	197.78'	S 35°44'54" E
L16	206.26'	S 28°56'34" W
L19	70.35'	N 58°12'05" W
L20	76.39'	N 29°49'35" E
L21	14.63'	N 3°10'48" E
L22	14.33'	N 31°22'50" W

PARCEL LINE TABLE

LINE #	LENGTH	BEARING
L23	331.15'	N 58°33'30" W
L24	13.70'	N 31°58'10" E
L25	15.13'	S 66°28'21" E
L26	126.43'	S 54°15'06" W

PARCEL CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	CH LENGTH	CH BEARING
C1	47.86'	42.00'	65°17'08"	45.31'	N 86°24'28" E
C2	29.46'	68.00'	24°49'20"	29.23'	N 41°21'14" E
C3	47.42'	42.00'	64°41'29"	44.94'	N 3°24'10" W
C4	18.55'	42.00'	25°18'31"	18.40'	N 48°24'10" W
C5	65.97'	42.00'	90°00'00"	59.40'	S 73°56'34" W
C6	65.89'	42.00'	89°53'33"	59.34'	S 16°00'12" E
C7	28.25'	85.00'	19°02'35"	28.12'	S 17°11'43" E
C8	15.29'	65.00'	13°28'30"	15.25'	S 33°27'15" E
C10	36.82'	85.00'	24°49'20"	36.54'	N 41°21'14" E



0 30 60
 SCALE: 1" = 30'
 SCALE: 1" = 60'
 FOR: 22"x34" SHEET
 FOR: 11"x17" SHEET

TECOCO Engineering
 a **BAXTER & WOODMAN** company
 406 ANDERSON PARKWAY, SUITE 100, GREENSBORO, NORTH CAROLINA, 27409
 TEL: 815-459-1260 E.B. NUMBER: 26383

ENGINEER OF RECORD
 JOHN J. MAHONEY III
 FLORIDA
 REGISTRATION NUMBER:
 40177

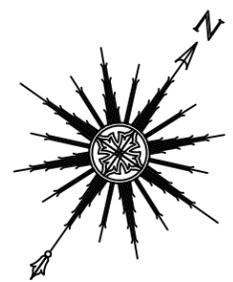
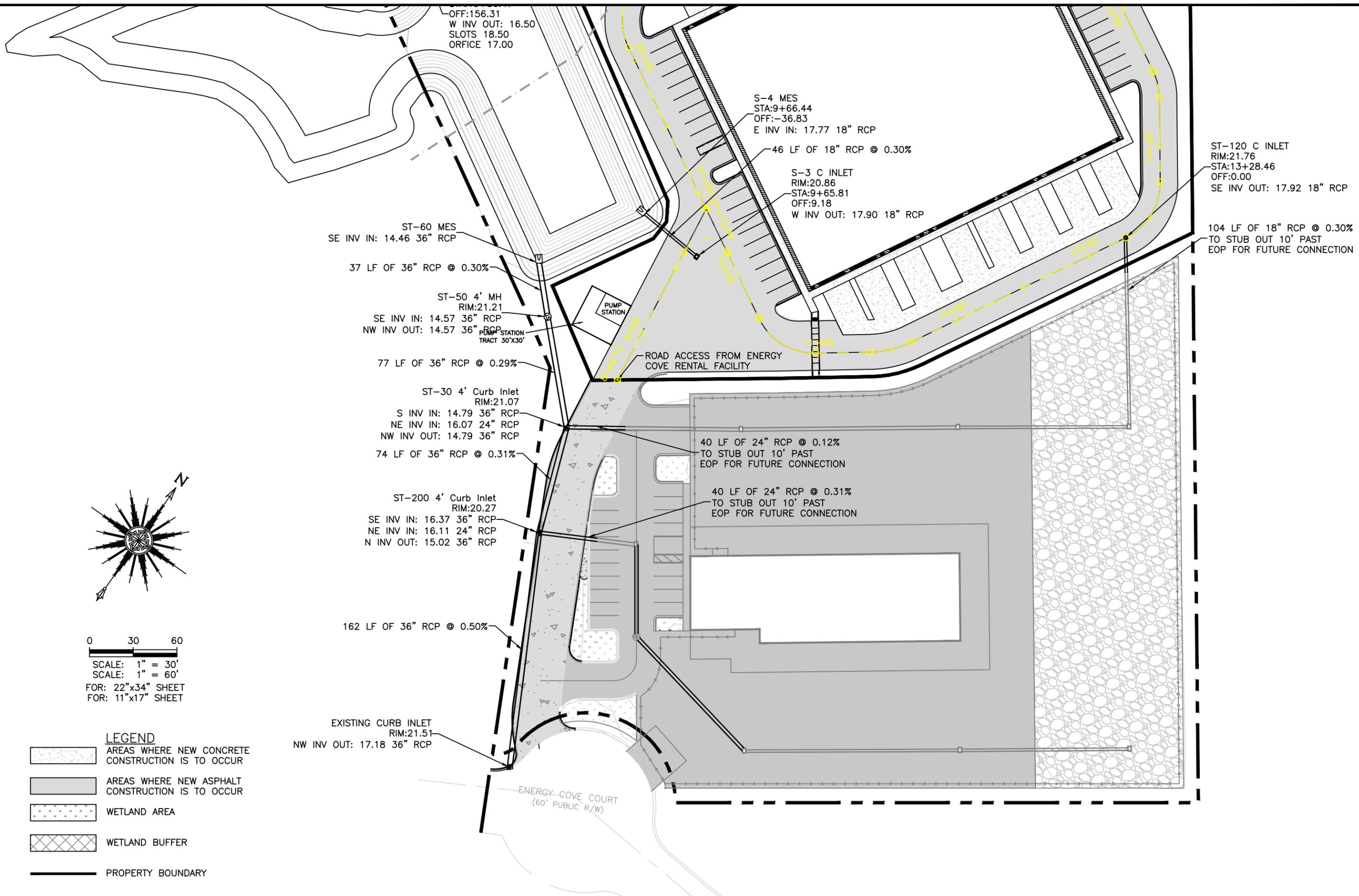
ENERGY COVE RENTAL FACILITY
 FOR
 MOFFAT PROPERTIES
 GEOMETRY PLAN

REVISIONS

NO.	DESCRIPTION

PLOT DATE: 2/4/26
 DRAWN BY: RMV
 DESIGNED BY: JIM
 CHECKED BY: WAJ
 CLIENT CODE: ALIGN
 JOB NO.: 2500939

SHEET NO.
7A



0 30 60
SCALE: 1" = 30'
SCALE: 1" = 60'
FOR: 22"x34" SHEET
FOR: 11"x17" SHEET

LEGEND

- AREAS WHERE NEW CONCRETE CONSTRUCTION IS TO OCCUR
- AREAS WHERE NEW ASPHALT CONSTRUCTION IS TO OCCUR
- WETLAND AREA
- WETLAND BUFFER
- PROPERTY BOUNDARY

π TOCOI Engineering
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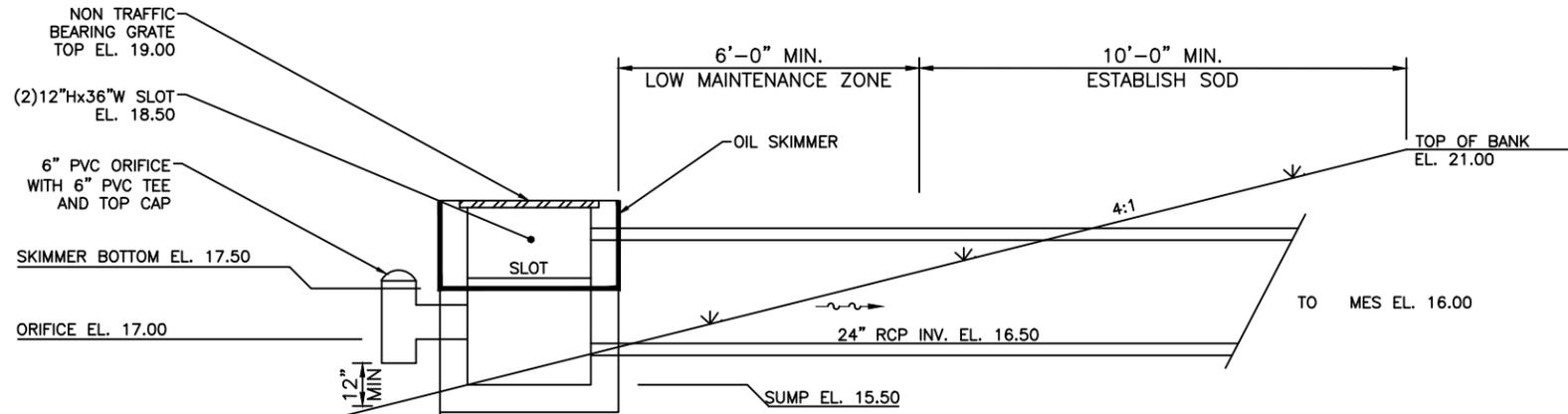
ENERGY COVE RENTAL FACILITY
FOR
MOFFAT PROPERTIES

DRAINAGE PLAN

REVISIONS

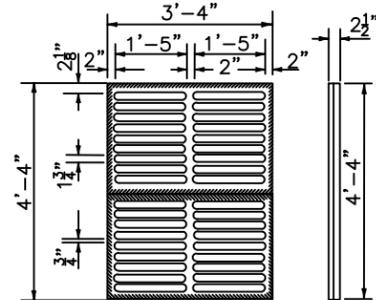
PLOT DATE: 2/4/26
DRAWN BY: RMV
DESIGNED BY: JJM
CHECKED BY: WAJ
CLIENT CODE: ALIGN
JOB NO.: 2500939

SHEET NO.
9B



**MODIFIED STORM SEWER
TYPE "E" INLET
POND OUTFALL-CONTROL STRUCTURE S-5**
N.T.S.

NOTE
INLETS WITH SLOTS GREATER THAN 6" SHALL BE CONSTRUCTED WITH HORIZONTAL BARS AT THE MAXIMUM VERTICAL SPACING OF 6-INCHES. 1" DIA. GALVANIZED PIPE IMBEDDED 2" IN PRECAST STRUCTURE OR OTHER APPROVED METHOD.



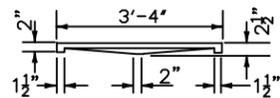
EACH GRATE SHALL HAVE A MIN. WEIGHT OF 190 LBS.

PRECAST IN ACCORDANCE WITH LATEST EDITIONS OF ASTM C76 AND C478.

6" MIN. CLEARANCE FROM O.D. OF TO INSIDE WALL OF INLET.

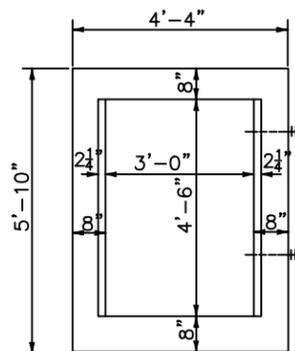
GROUT OR "RAM-NEK" JOINTS WHERE REQUIRED.

CONCRETE 4000 P.S.I.
SOD 16" ALL AROUND INLET



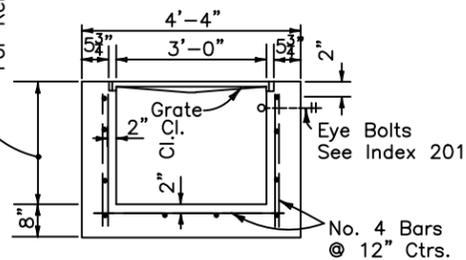
GRATE

Approx. Weight 465 Lbs.



TOP

Varies 15' Max.
See Index No. 201, Sh. 4 & 5
For Reinf. Mod. For Depths 13' To 15'



SECTION

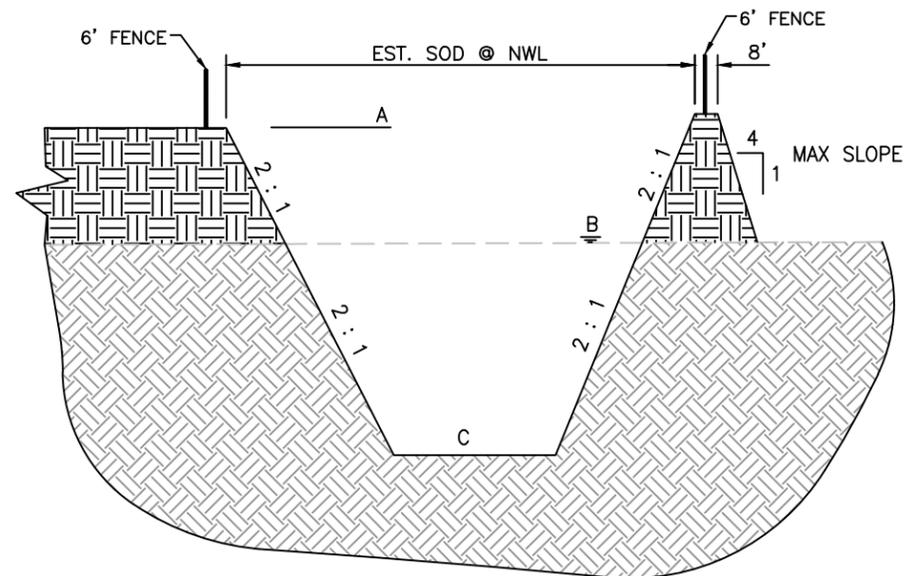
Recommended Maximum Pipe Size :

- 3' - 0" Wall - 24" Pipe
- 4' - 6" Wall - 42" Pipe

NOTE
INLETS WITH SLOTS GREATER THAN 6" SHALL BE CONSTRUCTED WITH HORIZONTAL BARS AT THE MAXIMUM VERTICAL SPACING OF 6-INCHES. 1" DIA. GALVANIZED PIPE IMBEDDED 2" IN PRECAST STRUCTURE OR OTHER APPROVED METHOD.

**STORM SEWER
TYPE "E" INLET**
N.T.S.

DESCRIPTION	ELEVATION
A TOP OF BANK	21.00
B NORMAL WATER LEVEL (NWL)	17.00
C POND BOTTOM	10.00

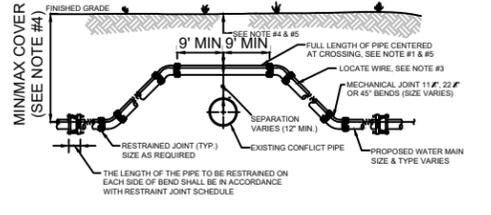


LEGEND



GROUND

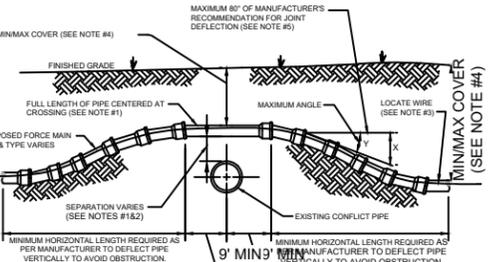
POND SECTION
N.T.S.



CASE "A" CROSSING

- NOTES
1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 2. ALL BENDS TO BE RESTRAINED IN BOTH DIRECTIONS PER CCAU REQUIREMENTS, TO WITHSTAND 150 P.S.I. PRESSURE TEST.
 3. LOCATING WIRE REQUIRED.
 4. THE COVER FOR PIPING SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84" UNLESS APPROVED BY CCAU.
 5. IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND IF THE NEW PIPE SHALL BE DUCTILE IRON PIPE, THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

ADJUSTMENT OVER EXISTING UTILITIES
MECHANICAL RESTRAINTS (NTS)



CASE "A" CROSSING

- NOTES
1. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
 2. ALL BENDS TO BE RESTRAINED IN BOTH DIRECTIONS PER CCAU REQUIREMENTS TO WITHSTAND 150 P.S.I. PRESSURE TEST.
 3. LOCATING WIRE REQUIRED.
 4. THE COVER OVER ALL PIPING SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS OTHERWISE APPROVED BY CCAU. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 5. CCAU ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED UNLESS OTHERWISE APPROVED BY CCAU. THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

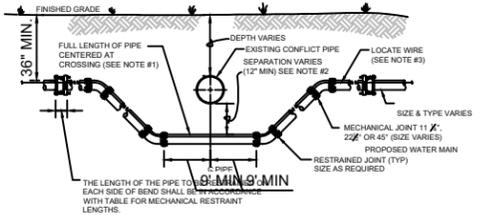
PIPE SIZE (IN.)	PVC PIPE		DUCTILE IRON PIPE (Mechanical Joint)	
	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL WITH 20FT. LENGTHS	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL WITH 20FT. LENGTHS
2	30	7"	158	FT
4	10	2.4"	480	FT
6	10	2.4"	480	FT
8	10	2.4"	480	FT
10	10	2.4"	480	FT
12	8.5	2"	564	FT
14-24	5	1.2"	860	FT
30-48	3.25	0.8"	1477	FT

ADJUSTMENT OVER EXISTING UTILITIES
PIPE JOINT DEFLECTION

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

1. SEPARATION OF WATER AND SEWER MAINS. HORIZONTAL AND VERTICAL SEPARATION BETWEEN POTABLE WATER SYSTEM MAINS AND OR APPURTENANCES AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, AND RECLAIMED WATER MAINS SHALL BE IN ACCORDANCE WITH RULE 62-555.314 F.A.C.
2. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER MAIN REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. OR PROPOSED VACUUM-TYPE SANITARY SEWER.
3. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET AND PREFERABLY TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
4. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. SHALL BE LAID TO THE OUTSIDE OF THE WATER MAIN AT LEAST SIX INCHES AND PREFERABLY 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW, THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAID THE WATER MAIN BY HAND TAMING OR AN APPROVED METHOD OF MECHANICAL TAMING. OTHERWISE, THE WATER MAIN SHALL BE LAID TO THE OUTSIDE OF THE OTHER PIPELINE.
5. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID TO THE OUTSIDE OF THE WATER MAIN AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAID THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (4) AND (5) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, IF SUCH CROSSINGS, THE PIPES SHALL BE SPACED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER, AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS PRIOR TO CONSTRUCTION.

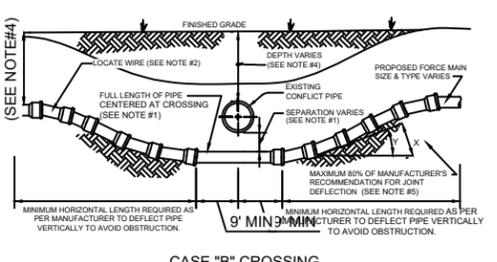
NOTES ON UTILITY SEPARATION REQUIREMENTS



CASE "B" CROSSING

- NOTES
1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 2. LOCATING WIRE REQUIRED.
 3. ALL BENDS TO BE RESTRAINED IN BOTH DIRECTIONS PER CCAU REQUIREMENTS, TO WITHSTAND 150 P.S.I. PRESSURE TEST.
 4. THE COVER FOR ALL PIPING SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84" UNLESS APPROVED BY CCAU.

ADJUSTMENT UNDER EXISTING UTILITIES
MECHANICAL RESTRAINTS (NTS)



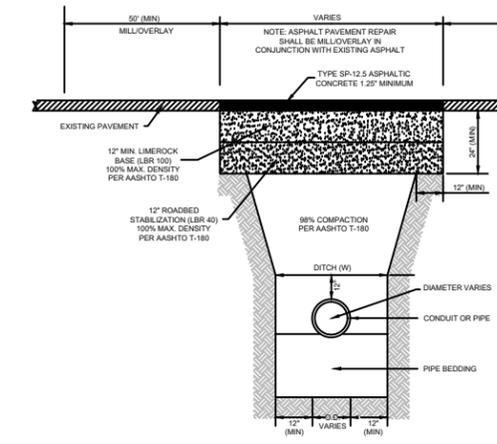
CASE "B" CROSSING

- NOTES
1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12 INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED UNDER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
 2. LOCATING WIRE REQUIRED.
 3. THE COVER OVER ALL PIPING SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS OTHERWISE APPROVED BY CCAU. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 4. CCAU ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED UNLESS OTHERWISE APPROVED BY CCAU. THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PIPE SIZE (IN.)	PVC PIPE		DUCTILE IRON PIPE (Mechanical Joint)	
	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL WITH 20FT. LENGTHS	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL WITH 20FT. LENGTHS
2	30	7"	158	FT
4	10	2.4"	480	FT
6	10	2.4"	480	FT
8	10	2.4"	480	FT
10	10	2.4"	480	FT
12	8.5	2"	564	FT
14-24	5	1.2"	860	FT
30-48	3.25	0.8"	1477	FT

ADJUSTMENT UNDER EXISTING UTILITIES
PIPE JOINT DEFLECTION



REVERSED CLAY COUNTY CASE 2 ASPHALT PAVEMENT REPAIR DETAIL (NTS)

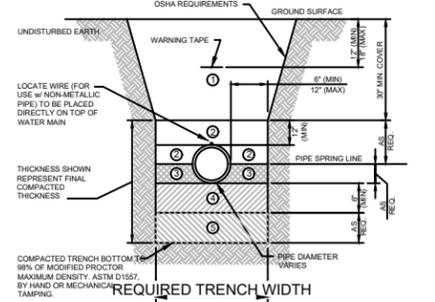
FOR PIPE RESTRAINT JOINT SCHEDULES, SEE STANDARD WATER MISCELLANEOUS DETAILS SHEET

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

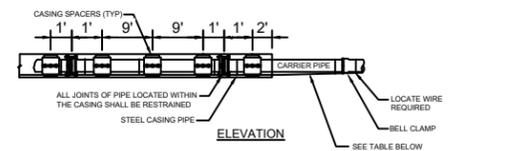
Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum
Gravity or Pressure Sanitary Sewer, Stormwater Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum

- On-Site Sewage Treatment & Disposal System
- (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
 - (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
 - (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
 - (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.
- (b) All bells must be offset.**

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.



TYPICAL PIPE TRENCH DETAIL (NTS)



CASING DETAIL

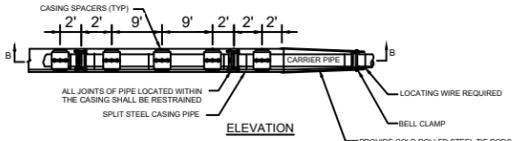
CARRIER TYPE AND CASING PIPE SIZES (MIN) IN INCHES

CARRIER PIPE NOM. DIA. (D1)	4	6	8	10	12	14	16	18	20	24	30	36
CASING PIPE NOM. DIA. (D2)	14	16	20	24	30	36	42	48	54	60	72	84
WALL THICKNESS RAILROAD (C&X)	0.25	0.281	0.375	0.375	0.375	0.469	0.469	0.562	0.625	0.688	0.781	0.844
WALL THICKNESS DOT	0.25	0.25	0.25	0.25	0.312	0.312	0.312	0.375	0.50	0.50	0.50	0.50
NUMBER OF THE RODS (EACH END)	2	2	2	4	4	4	6	8	8	12	14	14
THE ROD SIZE (DIA.)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"

CASING SIZE SCHEDULE

- NOTES
1. MIN. COVER TO TOP OF CASING, 4' FOOT-3" (RAILROAD-5.5' TO BASE OF RAIL, 4.5' FOR SECONDARY OR INDUSTRIAL TRACKS).
 2. ALL JOINTS WITHIN CARRIER PIPE SHALL BE MECHANICAL RESTRAINED JOINTS.
 3. FOR STREET USES WHICH ARE NOT DOT OR RAILROAD, USE DOT CASING THICKNESS UNLESS OTHERWISE INDICATED BY ENGINEER.
 4. CASING PIPE SHALL BE FURNISHED IN NOMINAL 8 FOOT LENGTHS (MIN.) UNLESS OTHERWISE INDICATED ON THE DRAWING OR APPROVED BY CCAU.
 5. PIPE TO BE USED AS A CASING SHALL CONFORM TO EITHER ASTM STANDARD A139 FOR "ELECTRIC FUSION (ARC) WELDED STEEL PIPE" WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI OR "API SPECIFICATION API-5LX, GRADE X-42 WELDED STEEL PIPE".

TYPICAL CASING DETAIL - WATER (NTS)

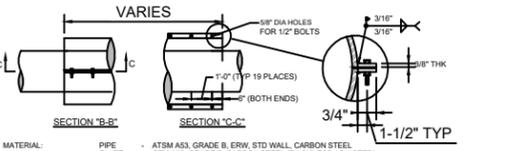


SPLIT CASING DETAIL

CARRIER TYPE AND CASING PIPE SIZES (MIN) IN INCHES

CARRIER PIPE NOM. DIA. (D1)	4	6	8	10	12	14	16	18	20	24	30	36	42	48
CASING PIPE NOM. DIA. (D2)	14	16	20	24	30	36	42	48	54	60	72	84	96	108
WALL THICKNESS RAILROAD (C&X)	0.25	0.281	0.375	0.375	0.375	0.469	0.469	0.562	0.625	0.688	0.781	0.844	0.908	0.972
WALL THICKNESS DOT	0.25	0.25	0.25	0.25	0.312	0.312	0.312	0.375	0.50	0.50	0.50	0.50	0.50	0.50
NUMBER OF THE RODS (EACH END)	2	2	2	4	4	4	6	8	8	12	14	14	14	14
THE ROD SIZE (DIA.)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"

- NOTES
1. NOT ALLOWED UNDER RAILROADS.
 2. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE A MINIMUM OF 4 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING.
 3. ALL JOINTS WITHIN CARRIER PIPE SHALL BE MECHANICAL RESTRAINED JOINTS.
 4. FOR STREET USES WHICH ARE NOT DOT OR RAILROAD, USE DOT CASING THICKNESS UNLESS OTHERWISE INDICATED BY ENGINEER.
 5. CASING PIPE SHALL BE FURNISHED IN NOMINAL 8 FOOT LENGTHS (MIN.) UNLESS OTHERWISE INDICATED ON THE DRAWING OR APPROVED BY CCAU.
 6. PIPE TO BE USED AS A CASING SHALL CONFORM TO EITHER ASTM STANDARD A139 FOR "ELECTRIC FUSION (ARC) WELDED STEEL PIPE" WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI OR "API SPECIFICATION API-5LX, GRADE X-42 WELDED STEEL PIPE".



TYPICAL SPLIT CASING DETAIL - WATER (NTS)

- MATERIAL:
- PIPE - ASTM A53, GRADE B, ERW, STD WALL, CARBON STEEL
 - PLATE - ASTM A36, GRADE B, CARBON STEEL (THICKNESS AS NOTED)
 - WELDS - ALL WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER
 - INTERIOR - BARE
 - EXTERIOR - BARE
- PIPE MAIN FOR CROSSINGS USING SPLIT CASING PIPE NOT ALLOWED UNDER RAILROADS

STANDARD WATER CASING, CROSSING TYPE AND PIPE RESTRAINT DETAILS

CLAY COUNTY UTILITY AUTHORITY
3176 OLD JENNINGS ROAD
MIDDLEBURG, FLORIDA 32068-3907
TELEPHONE: (904) 272-5999



ACAD FILE NAME
SHEET NO.
WAT 02

TOTOCOI Engineering
a BAXTER & WOODMAN company
714 NORTH ORANGE AVENUE, GREEN COVE SPRINGS, FL 32043
TEL: 815-459-1280
E.B. NUMBER: 26393

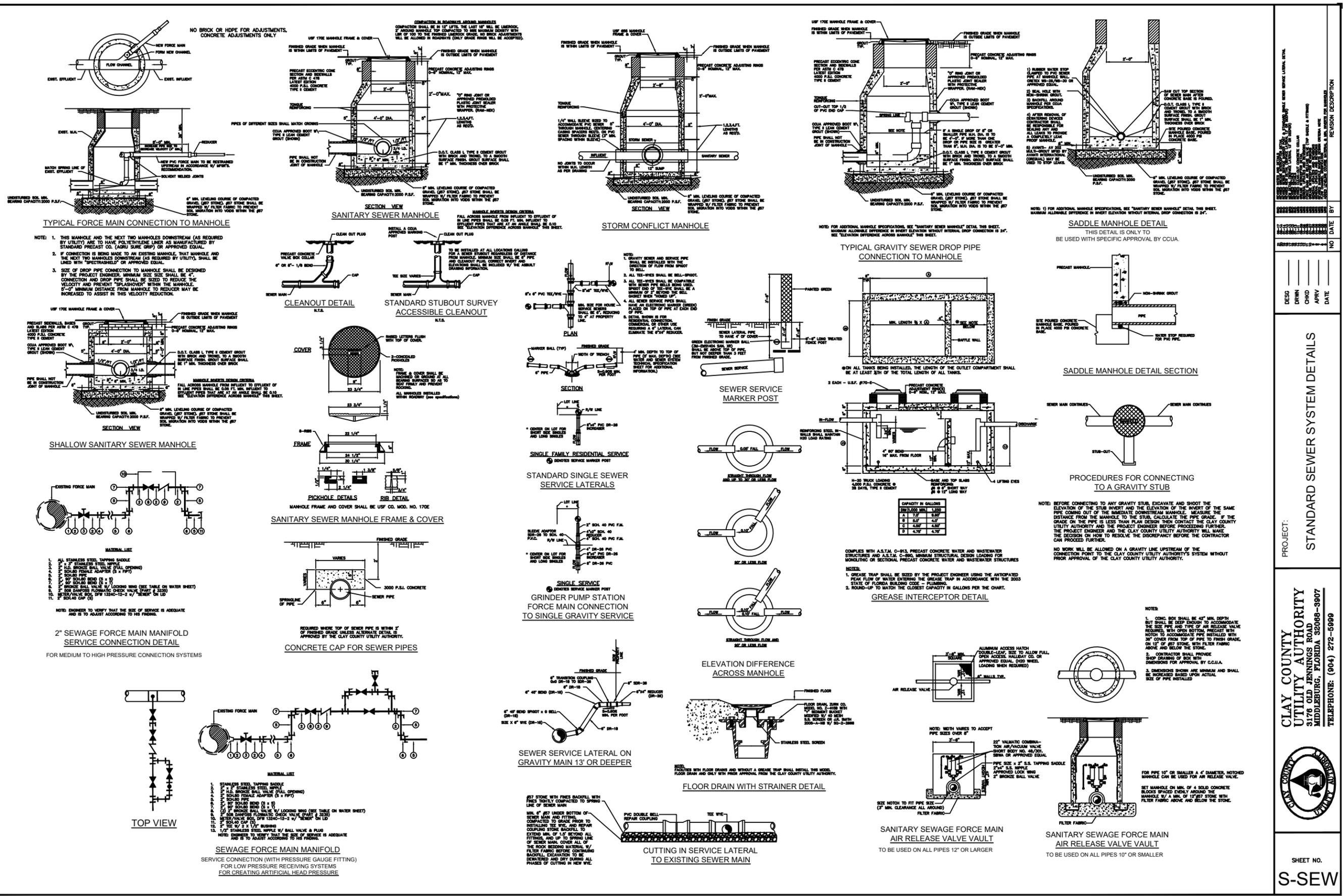
ENGINEER OF RECORD
JOHN J. MAHONEY III
FLORIDA
REGISTRATION NUMBER:
40177

ENERGY COVE WAREHOUSE FOR WIGGINS CONSTRUCTION COMPANY
CCUA UTILITY DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

PLOT DATE: 2/4/26
DRAWN BY: -
DESIGNED BY: -
CHECKED BY: -
CLIENT CODE: -
JOB NO.: -
SHEET NO.
12C



REVISION DESCRIPTION	
NO.	DATE
DESIGN	DATE
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE

PROJECT: STANDARD SEWER SYSTEM DETAILS

CLAY COUNTY UTILITY AUTHORITY
3176 OLD JENNINGS ROAD
MIDDLEBURG, FLORIDA 32068-3807
TELEPHONE: (904) 272-5899

SHEET NO. S-SEW

Tocol Engineering
a **BAXTER & WOODMAN** company

ENGINEER OF RECORD
JOHN J. MAHONEY III

FLORIDA
REGISTRATION NUMBER:
40177

ENERGY COVE WAREHOUSE
FOR
WIGGINS CONSTRUCTION COMPANY

CCUA UTILITY DETAILS

REVISIONS

PLOT DATE: 2/4/26
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CHECKED BY: -
CLIENT CODE: -
JOB NO.: -

SHEET NO. 12G

STORM WATER POLLUTION PREVENTION PLAN

CITY'S REQUIREMENTS

<p style="text-align: center;">SITE DESCRIPTION</p> <p>PROJECT NAME AND LOCATION: ENERGY COVE WAREHOUSE 1340 ENERGY COVE, GREEN COVE SPRINGS, FL 32043</p> <p>OWNER NAME AND ADDRESS: MR. BRYANT WIGGINS WIGGINS GROUP 91 BRANSCOMB ROAD, SUITE 17 GREEN COVE SPRINGS, FL 32043</p> <p>DESCRIPTION SECTION 38, TOWNSHIP 6S, RANGE 26E PT LOT 1 BLK 1 DB J PGS 273 & 274</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING; STORM SEWER, UTILITIES, AND PREPARATION FOR FINAL PLANTING AND SEEDING.</p> <p>RUNOFF CURVE NUMBERS: 1. PRE-CONSTRUCTION = 2. DURING CONSTRUCTION = 3. POST-CONSTRUCTION =</p> <p>SOILS: SEE SOIL BORING REPORT FOR SOILS DATA</p> <p>SITE MAPS: * SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. * SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS * SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA: 1. TOTAL AREA OF SITE = 4.60 AC 2. TOTAL AREA TO BE DISTURBED = 3.21 AC</p> <p>NAME OF RECEIVING WATERS:</p>		
<p style="text-align: center;">GENERAL</p> <p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p style="text-align: center;">SEQUENCE OF MAJOR ACTIVITIES:</p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</p> <p>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</p> <p>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</p> <p>4. CONSTRUCT SEDIMENTATION BASIN</p> <p>5. CONTINUE CLEARING AND GRUBBING</p> <p>6. STOCK PILE TOP SOIL, IF REQUIRED</p> <p>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</p> <p>8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE</p> </td> <td style="width: 50%; border: none;"> <p>9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.</p> <p>10. APPLY BASE TO PROJECT</p> <p>11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</p> <p>12. COMPLETE FINAL PAVING</p> <p>13. REMOVE ACCUMULATED SEDIMENT FROM BASINS</p> <p>14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</p> </td> </tr> </table> <p style="text-align: center;">TIMING OF CONTROLS/MEASURES</p> <p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.</p> <p style="text-align: center;">CONTROLS</p> <p>IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p style="text-align: center;">EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</p> <p>1. HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT. REFER TO CITY STANDARD DETAIL D-913 FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO D-901, D-911 AND D-12 FOR PROPER LOCATION, MATERIAL & USAGE.</p> <p>2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO CITY STANDARD DETAIL D-910 FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.</p> <p>3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</p> <p>4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT- FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE</p>	<p>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</p> <p>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</p> <p>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</p> <p>4. CONSTRUCT SEDIMENTATION BASIN</p> <p>5. CONTINUE CLEARING AND GRUBBING</p> <p>6. STOCK PILE TOP SOIL, IF REQUIRED</p> <p>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</p> <p>8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE</p>	<p>9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.</p> <p>10. APPLY BASE TO PROJECT</p> <p>11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</p> <p>12. COMPLETE FINAL PAVING</p> <p>13. REMOVE ACCUMULATED SEDIMENT FROM BASINS</p> <p>14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</p>
<p>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</p> <p>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</p> <p>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</p> <p>4. CONSTRUCT SEDIMENTATION BASIN</p> <p>5. CONTINUE CLEARING AND GRUBBING</p> <p>6. STOCK PILE TOP SOIL, IF REQUIRED</p> <p>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</p> <p>8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE</p>	<p>9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.</p> <p>10. APPLY BASE TO PROJECT</p> <p>11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</p> <p>12. COMPLETE FINAL PAVING</p> <p>13. REMOVE ACCUMULATED SEDIMENT FROM BASINS</p> <p>14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</p>	
<p style="text-align: center;">CONTROLS</p> <p>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.</p> <p style="text-align: center;">STORM WATER MANAGEMENT</p> <p>STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION): _____</p> <p>FOR THE PROJECT, AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF _____ ACRES WILL HAVE BEEN REGRADED, _____ ACRES LEFT UNDISTURBED. THE SITE DISCHARGES TO A WET DETENTION SYSTEM. WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN. THE WET DETENTION SYSTEM IS DESIGNED WITH A _____ DAY MINIMUM RESIDENCE VOLUME. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.</p> <p style="text-align: center;">TIMING OF CONTROLS/MEASURES</p> <p>REFER TO "CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.</p> <p style="text-align: center;">CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS</p> <p>IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.</p> <p>D.E.R. DREDGE/FILL PERMIT # _____ C.O.E. DREDGE/FILL PERMIT # _____ S.J.R.W.M.D. M.S.S.W. PERMIT # _____</p> <p style="text-align: center;">POLLUTION PREVENTION PLAN CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>SIGNED: _____ CITY ENGINEER</p>		

CONTRACTOR'S REQUIREMENTS

<p>CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.</p> <p>5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.</p> <p>6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.</p> <p>7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</p> <p>8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPLETE WITH THE PERMANENT GRASSING.</p> <p>9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p>10. TEMPORARY GRASSING: THE SEEDED OR SEEDING AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>11. TEMPORARY REGRESSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDING AND MULCHED OR SOODED.</p> <p style="text-align: center;">STRUCTURAL PRACTICES</p> <p>1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO D-914.</p> <p>2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE: A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO D-902 FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND D-904 FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER. B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. REFER TO D-903 FOR CONSTRUCTION OF CURB INLET & DROP SEDIMENT TRAP. C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO D-905 FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.</p> <p>3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.</p> <p>4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.</p>	<p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p style="text-align: center;">OTHER CONTROLS</p> <p style="text-align: center;">WASTE DISPOSAL</p> <p style="text-align: center;">WASTE MATERIALS</p> <p>ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p style="text-align: center;">HAZARDOUS WASTE</p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p style="text-align: center;">SANITARY WASTE</p> <p>ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p style="text-align: center;">OFFSITE VEHICLE TRACKING</p> <p>A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.</p> <p style="text-align: center;">INVENTORY FOR POLLUTION PREVENTION PLAN</p> <p>THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Concrete</td> <td><input type="checkbox"/> Fertilizers</td> <td><input type="checkbox"/> Wood</td> </tr> <tr> <td><input type="checkbox"/> Asphalt</td> <td><input type="checkbox"/> Petroleum Based Products</td> <td><input type="checkbox"/> Masonry Blocks</td> </tr> <tr> <td><input type="checkbox"/> Tar</td> <td><input type="checkbox"/> Cleaning Solvents</td> <td><input type="checkbox"/> Roofing Materials</td> </tr> <tr> <td><input type="checkbox"/> Detergents</td> <td><input type="checkbox"/> Paints</td> <td><input type="checkbox"/> Metal Studs</td> </tr> <tr> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> </tr> </table> <p style="text-align: center;">SPILL PREVENTION</p> <p style="text-align: center;">MATERIAL MANAGEMENT PRACTICES</p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p style="text-align: center;">GOOD HOUSEKEEPING</p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <p>* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</p> <p>* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</p> <p>* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</p> <p>* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</p> <p>* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</p> <p>* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</p> <p>* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</p> <p style="text-align: center;">HAZARDOUS PRODUCTS</p> <p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p style="text-align: center;">PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p style="text-align: center;">PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. 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EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p style="text-align: center;">CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p style="text-align: center;">SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p style="text-align: center;">MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <p>* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENIED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.</p> <p>* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.</p> <p>* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.</p> <p>* BUILT UP SEDIMENT WILL BE REMO</p>															

