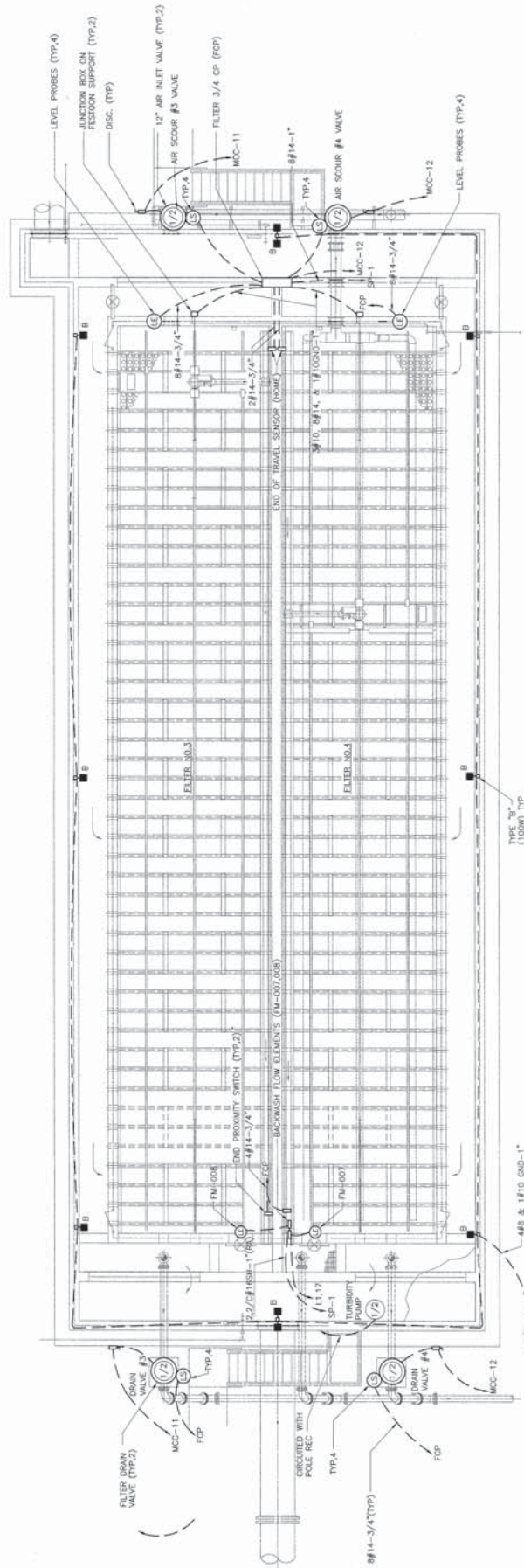
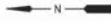




FILTERS ELECTRICAL PLAN

SCALE: 3/16"=1'-0"

RECORD DRAWING



DATE	05/20/09
SCALE	3/16"=1'-0"
PROJECT	1024-5008
DESCRIPTION	SEWER-ILT
DATE	04/01/11

FILTERS
ELECTRICAL PLAN

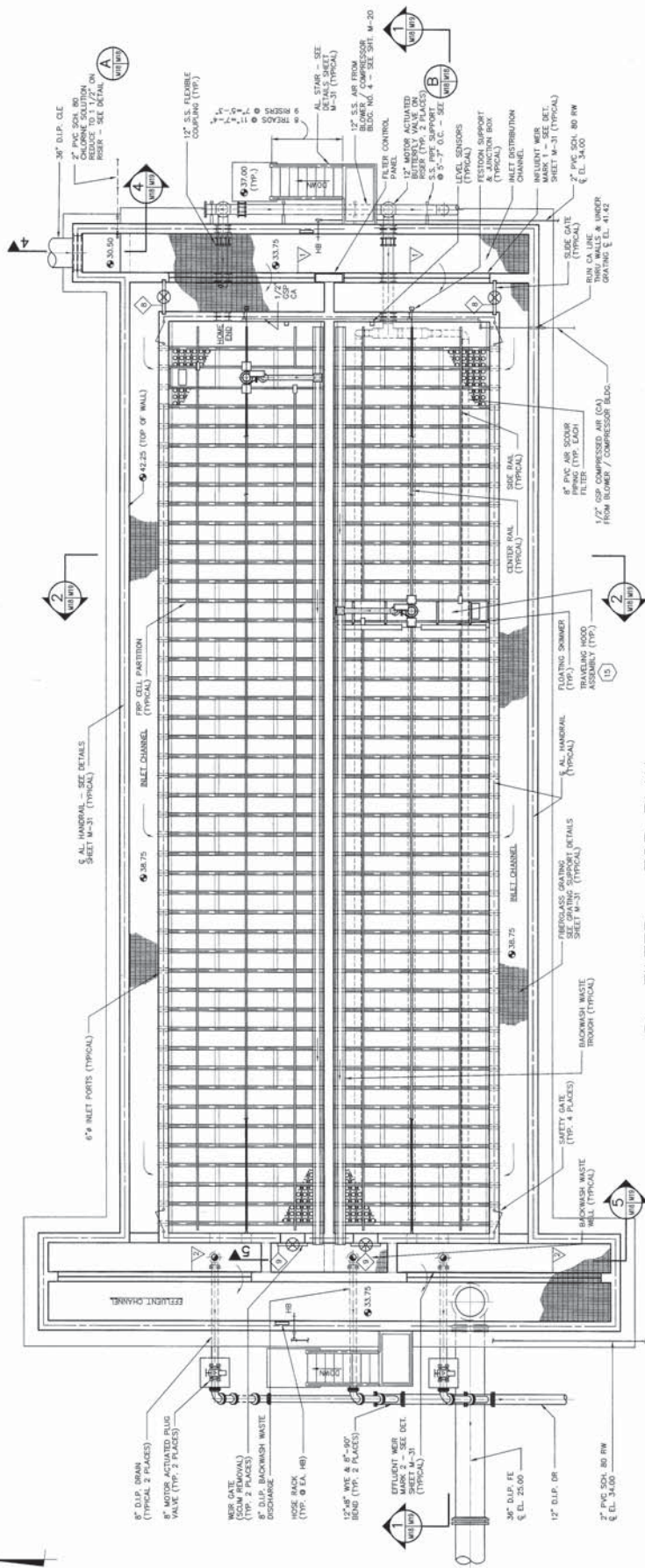
SOUTHEAST REGIONAL WASTEWATER
TREATMENT PLANT EXPANSION
MANATEE COUNTY



DESIGN	AS
REVISION	SEP
CHECKED	LMP
PROJECT ENG.	SEP
PROJECT MGR.	SEP

Signature
8/1/12

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	05/20/09
2	REVISION	
3	REVISION	
4	REVISION	
5	REVISION	
6	REVISION	
7	REVISION	
8	REVISION	
9	REVISION	
10	REVISION	



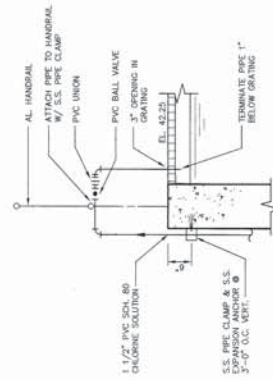
1 FILTER - TOP PLAN
3/16" = 1'-0"

LEGEND

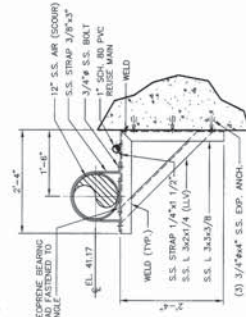
- 2 COMPONENT ITEM NUMBER
SEE "EQUIPMENT SCHEDULE" SHEET M-30
- 2 GATE MARK SCHEDULE & DETAILS SHEET M-30
- 2 WEIR MARK SCHEDULE & DETAILS SHEET M-31

NOTES:

- FOR PAVING AND GRADING SEE SHEET C-5.
FOR STRUCTURAL SEE SHEETS S-20 THRU S-22.
FOR ELECTRICAL POWER AND LIGHTING SEE SHEET E-27.



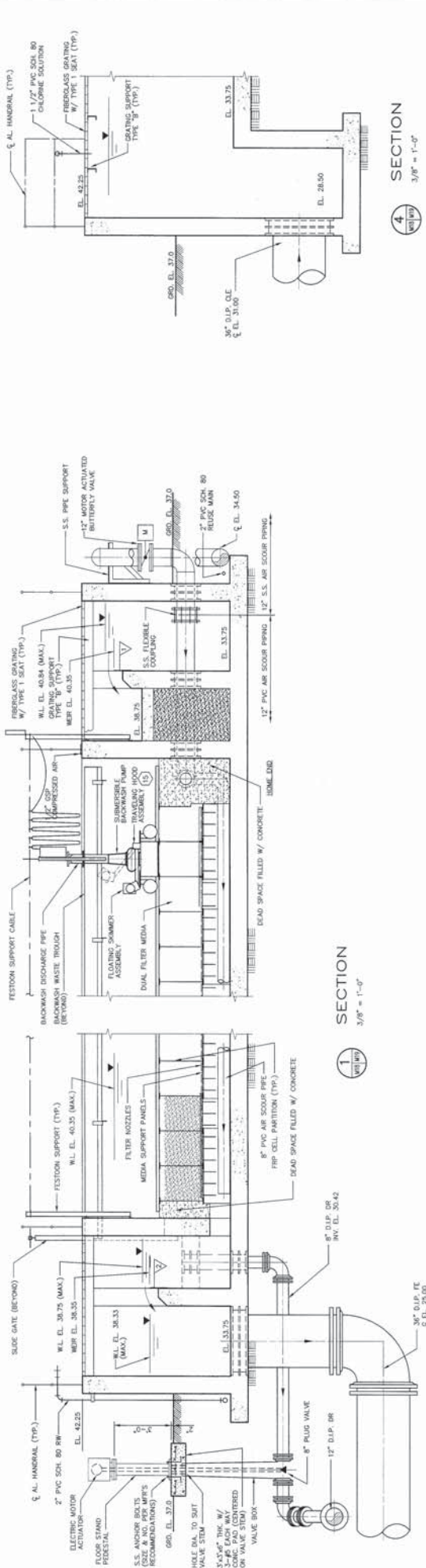
A CHLORINE FEED DETAIL
NOT TO SCALE



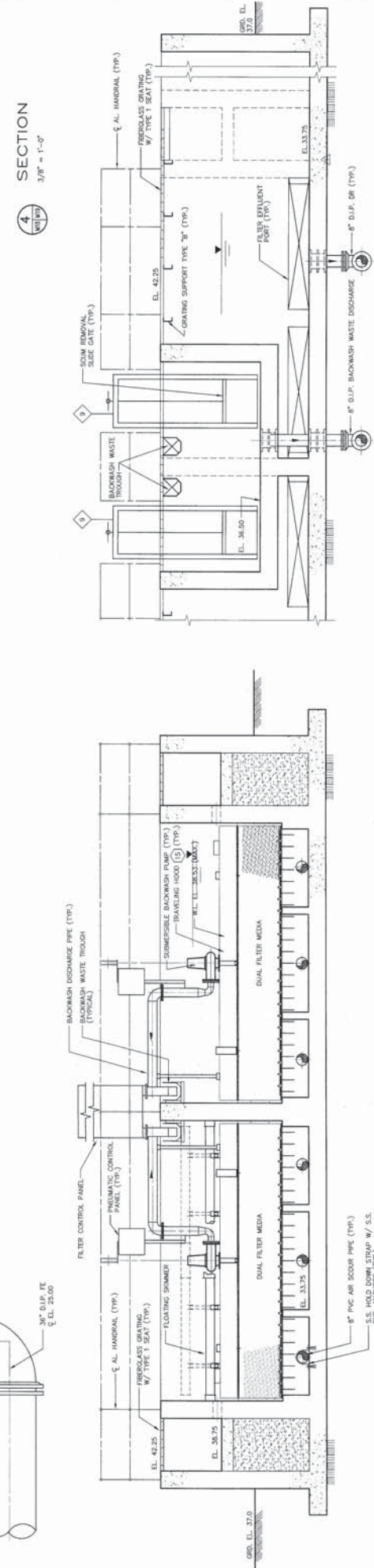
B PIPE SUPPORT DETAIL
NOT TO SCALE

RECORD DRAWING
3/16" = 1'-0"

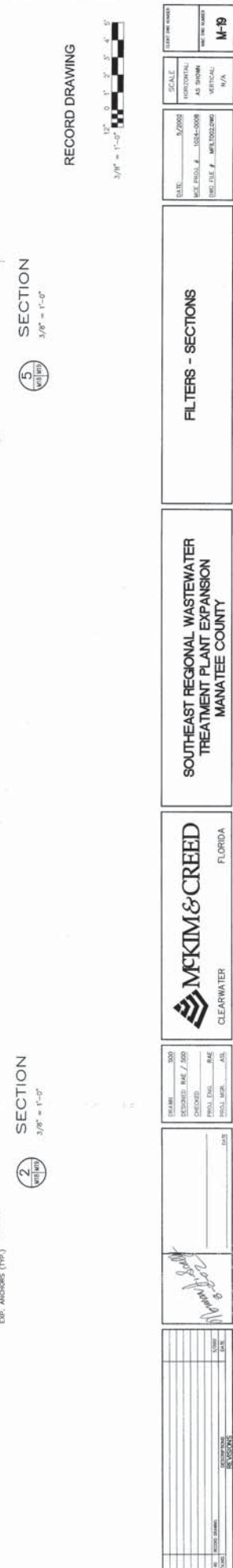
DATE: 3/2002 PROJECT: 1024-0008 SHEET: 1024-0008		SCALE: AS SHOWN VERTICAL: N/A	CLIENT: M&C M&C: 1024-0008 M&C: 1024-0008
SOUTHEAST REGIONAL WASTEWATER TREATMENT PLANT EXPANSION MANATEE COUNTY			
MCKIM & CREED CLEARWATER, FLORIDA			
DESIGNED: RAE / SOD CHECKED: SOD PROJECT: SOD	DATE: 3/2002	PROJECT: 1024-0008	
FOR PAVING AND GRADING SEE SHEET C-5. FOR STRUCTURAL SEE SHEETS S-20 THRU S-22. FOR ELECTRICAL POWER AND LIGHTING SEE SHEET E-27.			



SECTION 1
3/8" = 1'-0"



SECTION 2
3/8" = 1'-0"

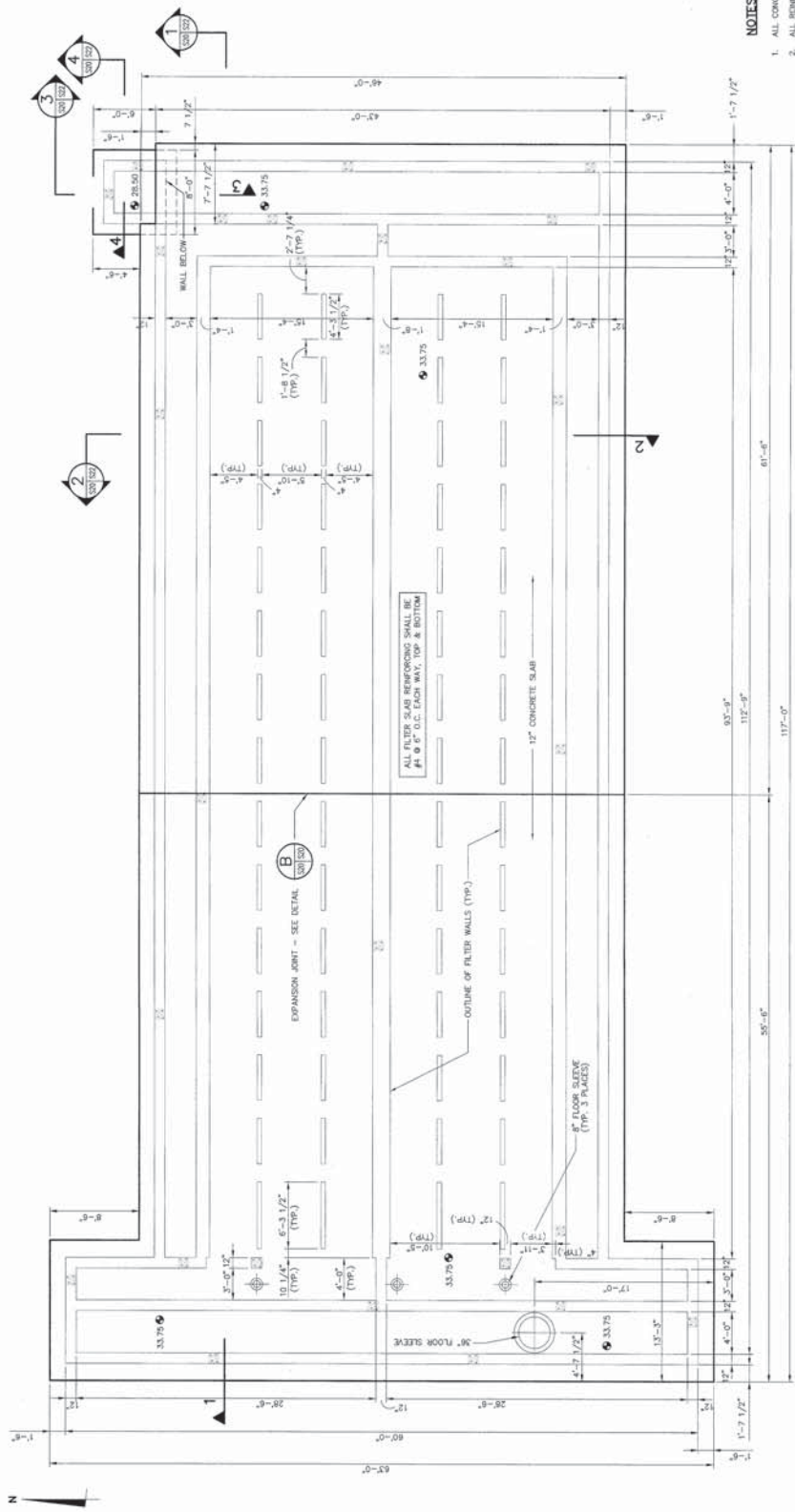


SECTION 3
3/8" = 1'-0"

RECORD DRAWING



PROJECT: SOUTHEAST REGIONAL WASTEWATER TREATMENT PLANT EXPANSION COUNTY: MANATEE COUNTY		McKIM & CREED CLEARWATER, FLORIDA	
DRAWN: <i>[Signature]</i> CHECKED: <i>[Signature]</i> IN CHARGE: <i>[Signature]</i>	DATE: <i>[Blank]</i> SCALE: <i>[Blank]</i> SHEET NO.: <i>[Blank]</i>	FILTERS - SECTIONS M-9	



BAR SPICE CHART

BAR SIZE	*TOP BAR	OTHER BAR
#4	26"	22"
#5	35"	27"
#6	42"	32"
#7	49"	36"
#8	56"	43"
#9	63"	48"
#10	70"	56"

* TOP BAR CLASSIFICATION IS FOR ANY BAR THAT HAS MORE THAN 12" OF CONC. BELOW IT.

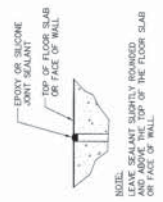
NOTES:

1. ALL CONCRETE SHALL BE 4000 PSI MIN.
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. FOR SPICE LENGTHS, SEE BAR SPICE CHART THIS SHEET.
4. SITE SHALL BE GRADED TO THE SURFACE AND THEN SHALL BE PROOF ROLLED IN THE ALLOWABLE BEARING PRESSURE = 3,000 PSF.
5. AFTER COMPLETION OF THE FOUNDATION AND WALLS THE STRUCTURE SHALL BE FILLED WITH SAND AND TIGHTLY COMPACTED. ANY TELLING AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN SAND.
6. AFTER A SUCCESSFUL LEAKAGE TEST HAS BEEN OBTAINED, THE STRUCTURE SHALL REMAIN FULL OF WATER FOR A PERIOD OF 7 DAYS UNTIL SETTLEMENT HAS OCCURRED. THIS PERIOD SHALL BE NOT LESS THAN 5 DAYS AND SHALL NOT EXCEED 7 DAYS.
7. NO FINAL SURVEYING CONNECTION OF PLACEMENT OF FILTER EQUIPMENT SHALL BE MADE UNTIL THE LEAKAGE TEST HAS BEEN OBTAINED.
8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE A.C.I. CODE, OSHA REGULATIONS AND ALL LOCAL BUILDING CODES.
9. LEAKAGE TEST SHALL NOT BE STARTED UNTIL FILTER WALLS HAVE BEEN OBTAINED. ALL GUESSED AND SUCCESSFUL 28 DAY BREAKS HAVE BEEN OBTAINED.
10. ALL ALUMINUM PRODUCTS THAT WILL BE IN CONTACT WITH CONCRETE SHALL BE ANODIZED OR GALVANIZED TO PREVENT PLACING IN CONTACT WITH CONCRETE.
11. FOR PAVING AND GRADING SEE SHEET C-5.
12. FOR MECHANICAL SEE SHEETS C-18, C-19 AND C-22.
13. FOR ELECTRICAL POWER AND LIGHTING SEE SHEET C-22.

JOINT OPENING TABLE

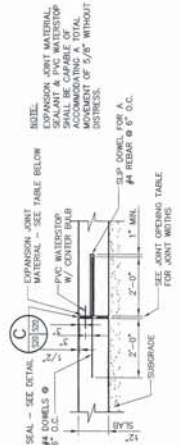
TEMP.	*JOINT OPENING
50°	7/8"
70°	3/4"
90°	9/8"

THE TOTAL EXPECTED SETTLEMENT SHALL BE 20" TO 100" = 5/8".

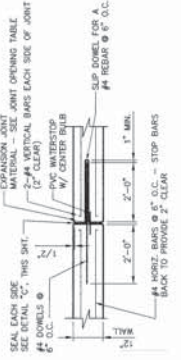


JOINT DETAIL
NOT TO SCALE

1 FILTER - FOUNDATION PLAN
3/16" = 1'-0"



B EXPANSION JOINTS FOR FILTER FLOOR SLABS
NOT TO SCALE



A VERTICAL EXPANSION JOINTS IN FILTER WALLS
NOT TO SCALE

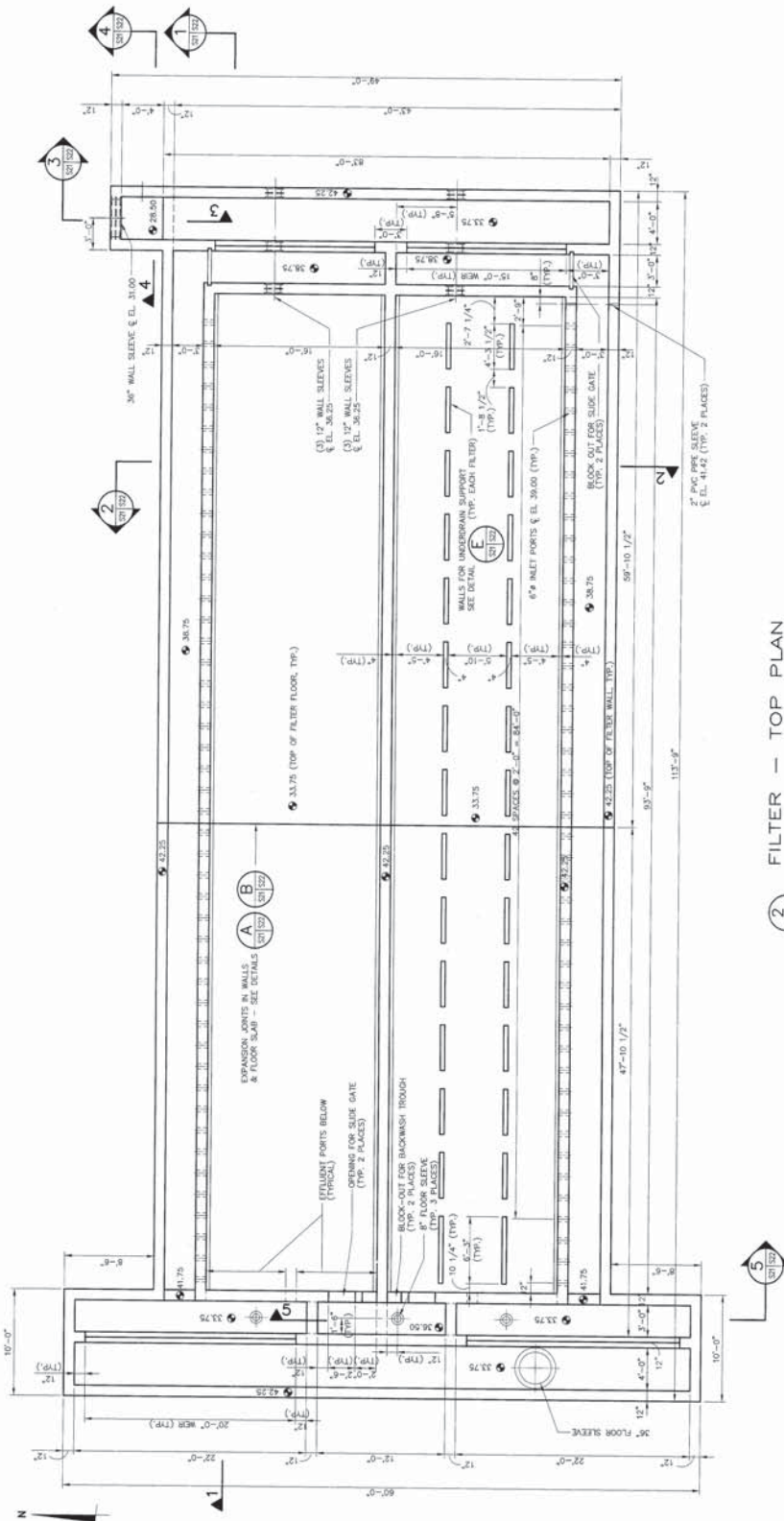
RECORD DRAWING

FILTERS - FOUNDATION PLAN

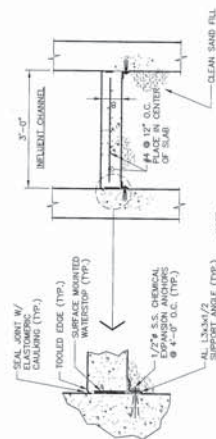
SOUTHEAST REGIONAL WASTEWATER TREATMENT PLANT EXPANSION
MANATEE COUNTY

McKIM & CREED
CLEARWATER, FLORIDA

DATE	5/20/22	SCALE	AS SHOWN
PROJECT NO.	1024-0008	DATE	5/20/22
PROJECT NAME	SEWAGE TREATMENT PLANT	PROJECT NO.	1024-0008
PROJECT LOCATION	MANATEE COUNTY, FLORIDA	PROJECT NAME	SEWAGE TREATMENT PLANT
PROJECT OWNER	MANATEE COUNTY	PROJECT LOCATION	MANATEE COUNTY, FLORIDA
PROJECT ARCHITECT	McKIM & CREED	PROJECT OWNER	MANATEE COUNTY
PROJECT ENGINEER	McKIM & CREED	PROJECT ARCHITECT	McKIM & CREED
PROJECT CONTRACTOR	MANATEE COUNTY	PROJECT ENGINEER	McKIM & CREED
PROJECT SUBMITTER	MANATEE COUNTY	PROJECT CONTRACTOR	MANATEE COUNTY
PROJECT REVIEWER	MANATEE COUNTY	PROJECT SUBMITTER	MANATEE COUNTY
PROJECT APPROVER	MANATEE COUNTY	PROJECT REVIEWER	MANATEE COUNTY
PROJECT SIGNATURE	MANATEE COUNTY	PROJECT APPROVER	MANATEE COUNTY
PROJECT DATE	5/20/22	PROJECT SIGNATURE	MANATEE COUNTY



FILTER - TOP PLAN
3/16" = 1'-0"

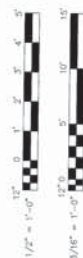


NOTE:
ALUMINUM SURFACES THAT ARE IN CONTACT WITH WASTEWATER SHALL BE COATED WITH AN ANTI-CORROSIVE PAINT PRIOR TO INSTALLATION.

DETAIL
1/2" = 1'-0"

RECORD DRAWING

NOTE: SEE SHEET S20 FOR NOTES.
SEE SHEET S-22 FOR SECTIONS AND REINFORCING.



FILTERS - TOP PLAN

SOUTHEAST REGIONAL WASTEWATER
TREATMENT PLANT EXPANSION
MANATEE COUNTY

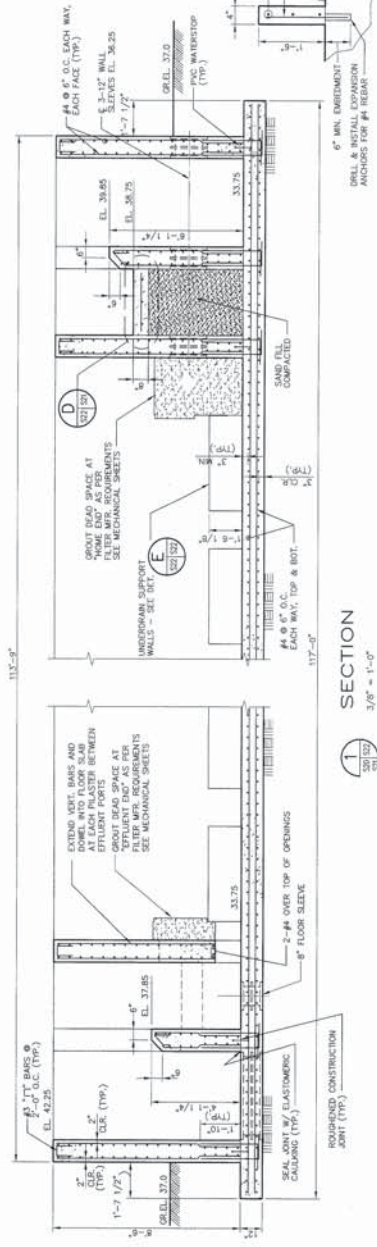
McKIM & CREED
CLEARWATER FLORIDA

DESIGNED	SDG / MLE
CHECKED	
PREP. INCH.	MLE
PREP. SUR.	ASL

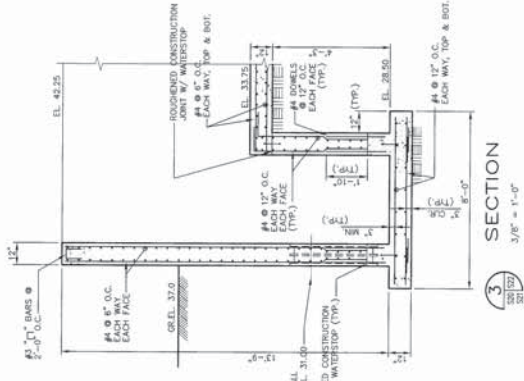
DATE: 08/14/2020
BY: [Signature]

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	08/14/2020

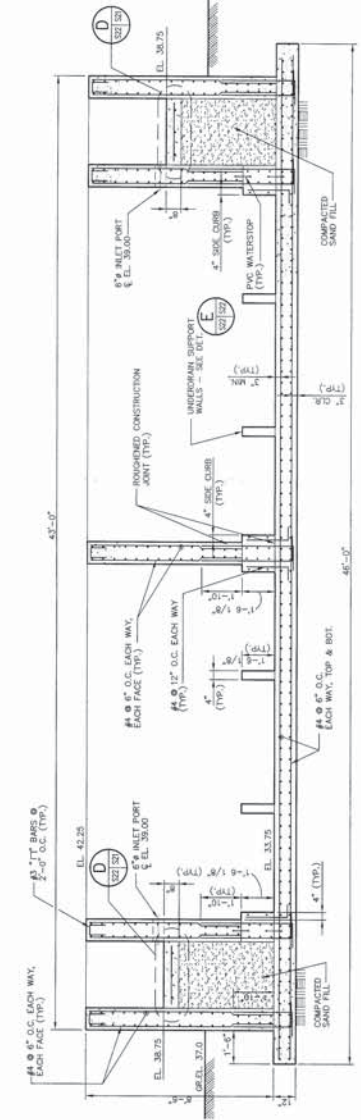
SCALE	3/2020
HORIZONTAL	AS SHOWN
VERTICAL	N/A
SHEET NO.	S-21



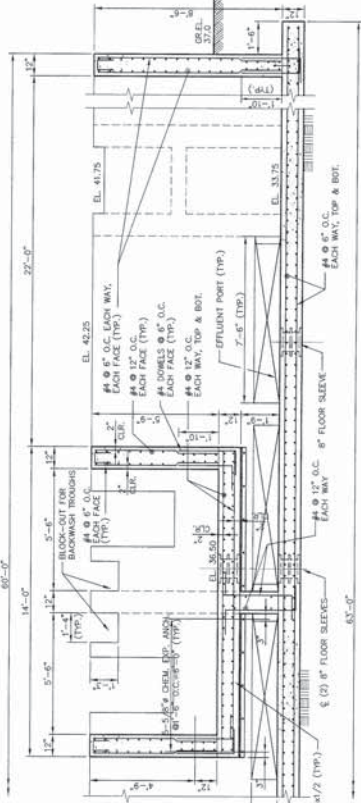
SECTION 1
3/8" = 1'-0"



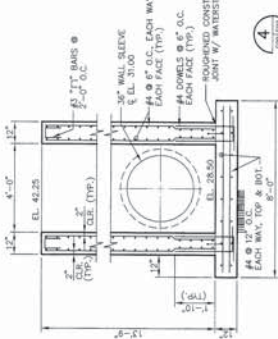
SECTION 3
3/8" = 1'-0"



SECTION 2
3/8" = 1'-0"



SECTION 5
3/8" = 1'-0"



SECTION 4
3/8" = 1'-0"

NOTES:
 1. CONCRETE ORDER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
 3" - FOR ALL CONCRETE CAST AGAINST SOIL.
 2. TOP STEEL IN THE WALLS OF THE WATERSTOP MAY BE LOWERED TO PREVENT CONTACT WITH THE WATERSTOP.
 SEE SHEET 5-20 FOR LAP SPACE CHART.

NO.	REVISION	DATE
1	ISSUED FOR PERMIT	10/1/2018

DATE: 10/1/2018
 DRAWN BY: J. HARRIS
 CHECKED BY: J. HARRIS
 PROJECT NO.: 1804-0008
 SHEET NO.: 5-22

McKIM & CREED
 CLEARWATER, FLORIDA

SOUTHEAST REGIONAL WASTEWATER TREATMENT PLANT EXPANSION
 MANATEE COUNTY

FILTERS - SECTIONS