



ADDENDUM OF SOLICITATION
INVITATION FOR BIDS (IFB No. 024-004)
ADDENDUM No. 2
Issued: May 7, 2024

IFB No. 024-004

**Title: PRTC Stormwater Management System and
Sewer Ejector Pit Maintenance and Repair Services**

Contact: Cynthia Porter Johnson **Email:** cporter-johnson@omniride.com **Phone:** 703-580-6147

This addendum is hereby incorporated into the solicitation documents of the above referenced IFB. The following items are clarifications, corrections, additions, deletions and/or revisions to the IFB, which shall take precedence over the original documents. Bidders must acknowledge receipt of this amendment by returning the signed original with the Bid package prior to the hour and date specified in the solicitation.

DESCRIPTION OF ADDENDUM

The above numbered solicitation is amended as follows:

1. PROCUREMENT SCHEDULE

Extending the Bids Due (Bid Opening) Date to Tuesday, May 21, 2024 @ 12 Noon EST.

DELETE: **Page 4**

REPLACE WITH: **Page 4 (Revised) attached herewith**

2. ATTACHMENT A Site Map Drawings

Providing electronic version of Site Map Drawings.

ADD: **Electronic Version of Site Map Drawings**

Except as specifically amended herein, all other terms and conditions of this solicitation remain unchanged and in full force and effect.

Bidders must acknowledge receipt of this amendment by returning signed original with the Bid package prior to the hour and date specified in the solicitation. Failure to acknowledge receipt of this Addendum may be grounds to declare your Bid unresponsive.

Company _____

Address _____

City _____ State _____ Zip Code _____

Name of Person Authorized to Sign _____

Print

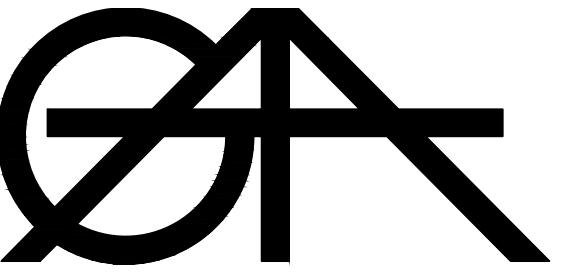
Signature _____ Date _____

II. PROCUREMENT SCHEDULE

PRTC anticipates following the procurement schedule as shown below. PRTC reserves the right to make changes to the schedule. All such changes shall be made by an addendum to the solicitation. It is the responsibility of each vendor to check the PRTC's procurement webpage (<https://omniride.com/about/business/procurement/>) or eVA, Virginia's online, electronic procurement system ([the Commonwealth of Virginia electronic procurement portal](#)) for information concerning this solicitation, including any addenda or notices.

April 12, 2024	IFB Issued by PRTC
April 22, 2024 11:00am EST	Pre-bid Conference (In-Person and Virtual) (In-Person at PRTC Transit Center Large Conference Room and Virtually via Zoom)
April 29, 2024 5:00pm	Final Questions Due
May 6, 2024	PRTC Response to Questions
May 17 May 21, 2024 12:00 Noon EST	BIDS DUE (Bid Opening)
June 6, 2024	Recommend Award to PRTC Board

MATCH LINE SHT C-7



Gauthier, Alvarado & Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10085
PLAN NO. 96-00152.

SAE JOB NO. 974.000

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

MULTI-PURPOSE TRANSIT CENTER

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Associates, Inc.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

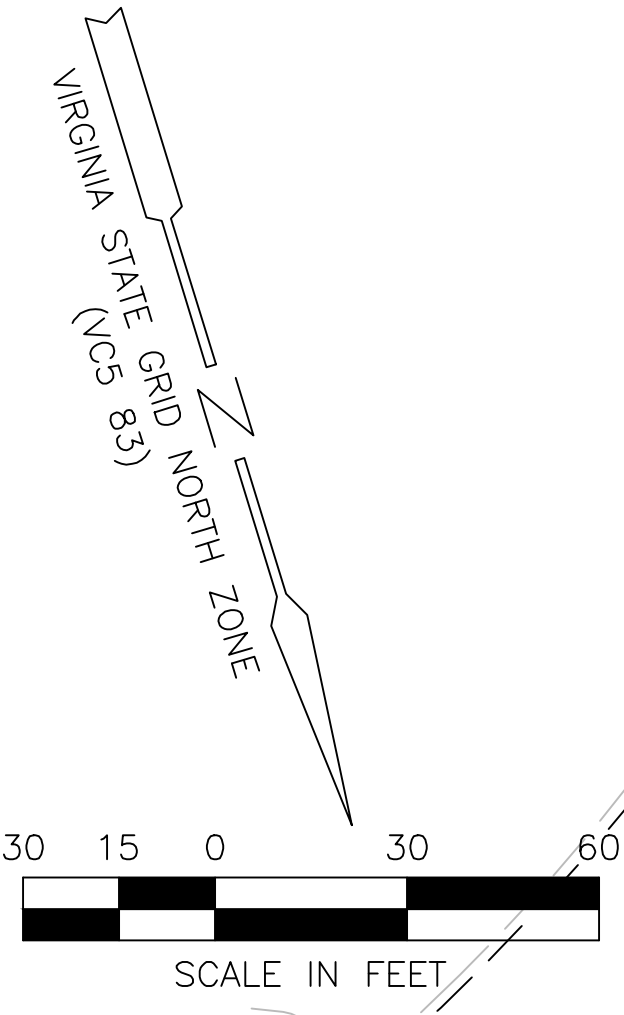
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3	11-96	PRINT FOR BIDDING
1	5-10-96	PERMIT REVISIONS

DRAWN KLT
CHECKED

DRAWING TITLE
**EROSION & SEDIMENT
CONTROL PHASE 1**

DATE SEPT. 29, 1995

DRAWING NUMBER
C-8



Symbol	Description	PEO Initials	Date
▲	Revised As-Built	PEO	9/15/06
□	Symbol Description	Initials	Date

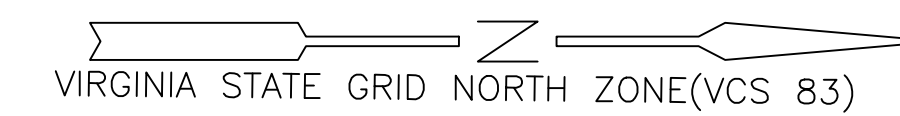
See Disclaimer Sheet 1 (Index sheet)

TO DALE BOULEVARD
← I-95 EXT RAMP



Gauthier, Alvarado & Associates, Inc.

Architecture Engineering Planning



NOTE: REFER TO APPROVED PRTC BUS YARD EXPANSION PLANS FOR CORRECT EROSION & SEDIMENT CONTROL PHASE 1 INFORMATION

PROJECT NO. 10085
PLAN NO. 96-00152

SEA JOB NO. 974.000

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PRTC

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PLANNING LANDSCAPE AND
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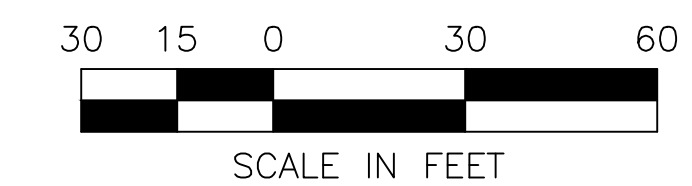
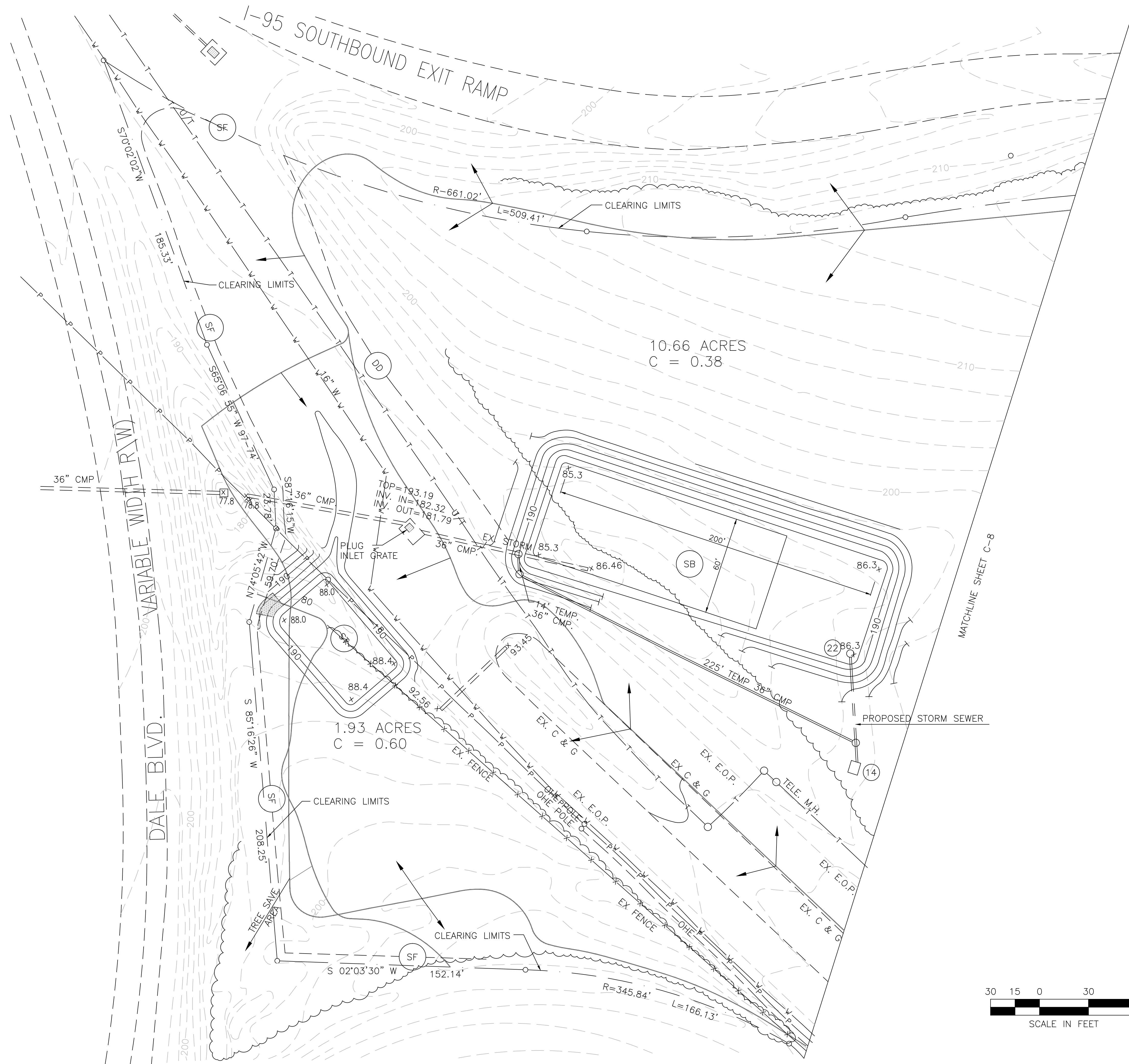
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1	5-10-96	PERMIT REVISIONS

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**EROSION & SEDIMENT
CONTROL PHASE 1**

DATE SEPT. 29, 1995

DRAWING NUMBER
C-9
9 OF 29



Revised As-Built	PEO	9/15/06
Symbol Description	Initials	Date
See Disclaimer Sheet 1 (Index sheet)		



Gauthier, Alvarado & Associates, Inc.

Architecture Engineering Planning

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REVISIONS		
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1	5-10-96	PERMIT REVISIONS

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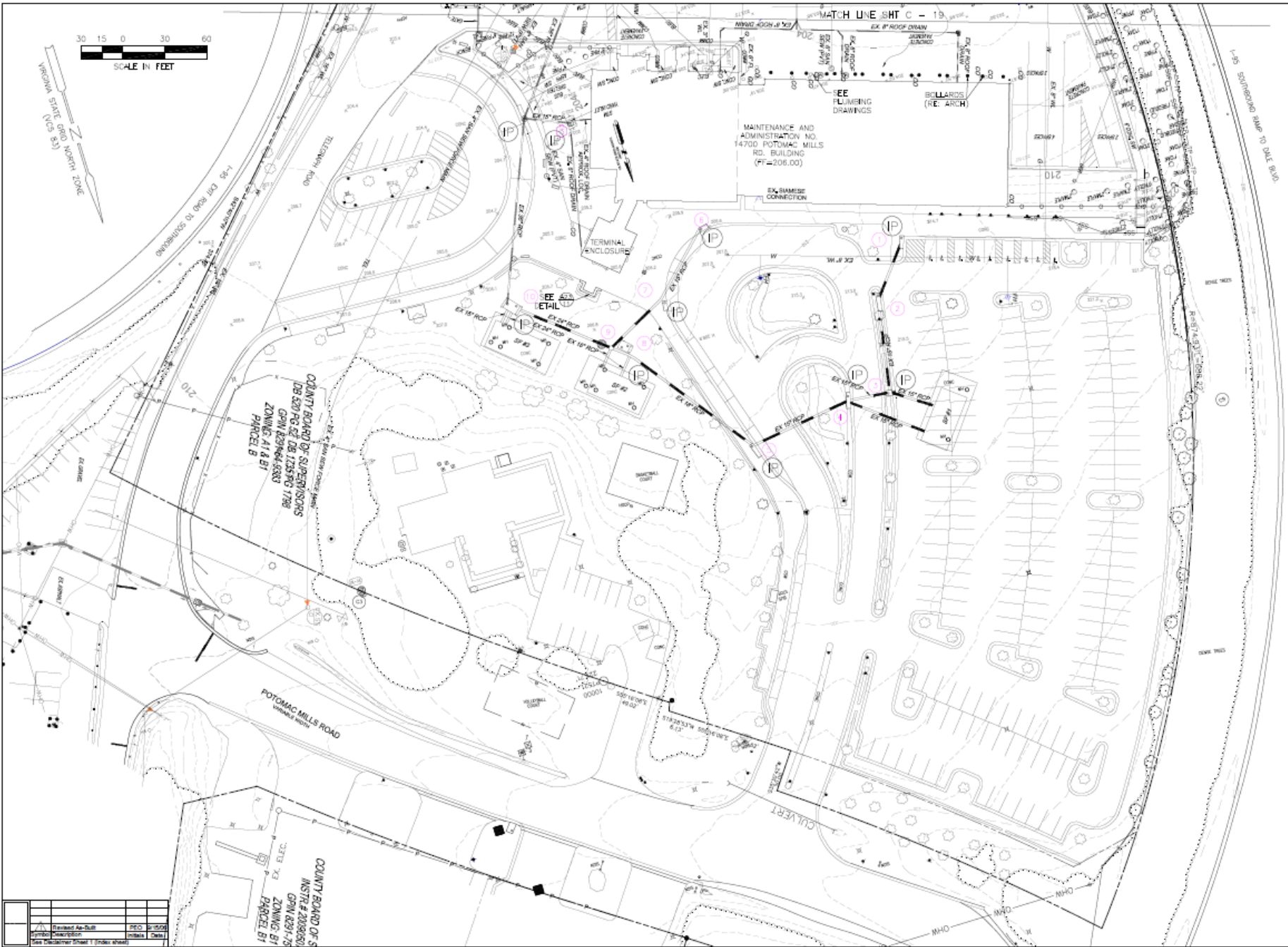
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**EROSION & SEDIMENT
CONTROL PHASE 2**

DATE: SEPT. 29, 1995

DRAWING NUMBER

C-10

10 OF 28



NO.	DATE	DESCRIPTION	BY	CHKD.



Gauthier, Alvarado
& Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10005
PLAN NO. 98-00152

SEA JOB NO. 974.000

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

**MULTI-PURPOSE
TRANSIT CENTER**

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Corporation, P.C.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

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1	5-10-98	PERMIT REVISIONS

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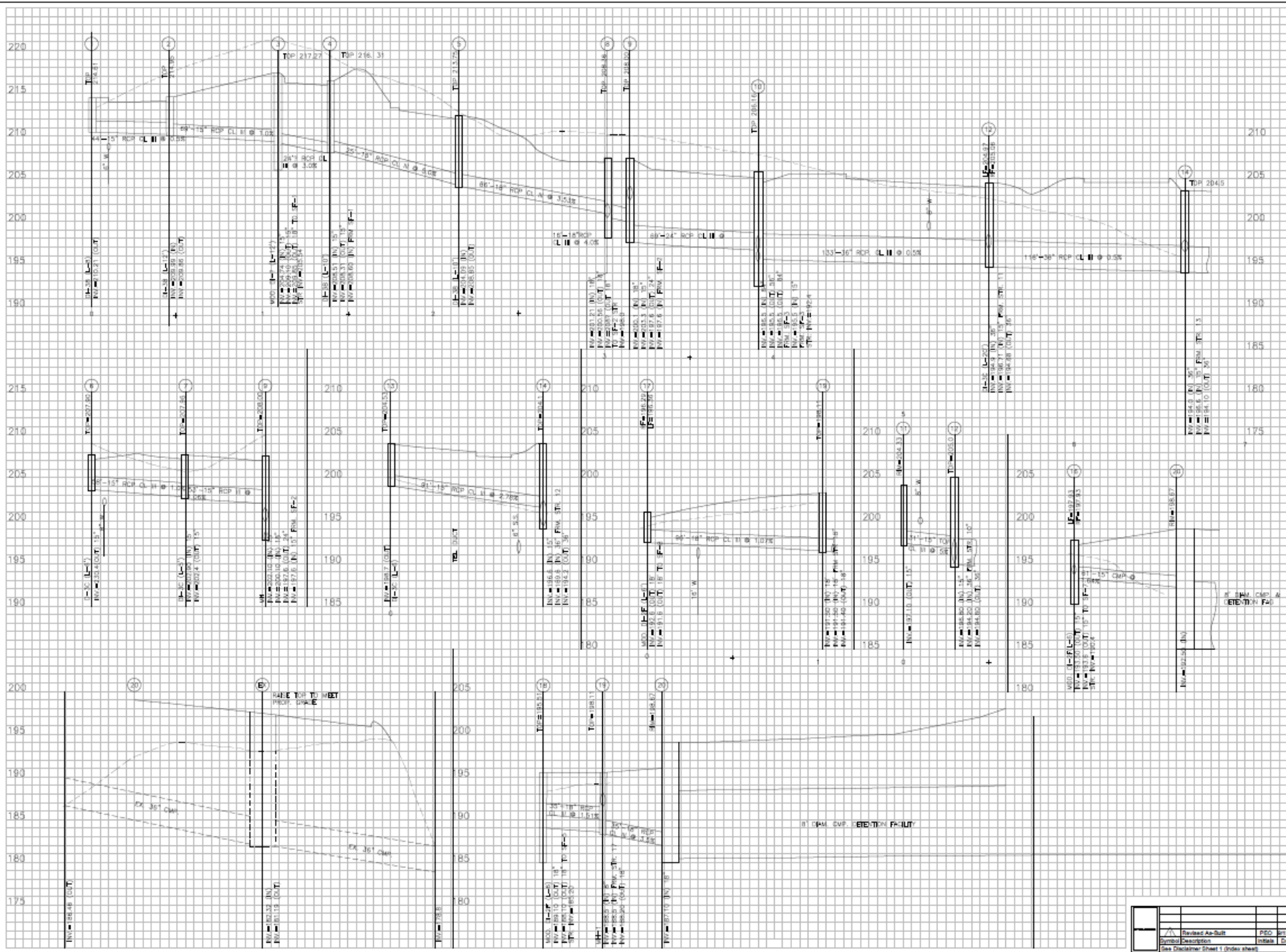
**STORM
SEWER
PROFILES**

DATE: SEPTEMBER 29, 1995

DRAWING NUMBER

C-15

15 OF 28





Gauthier, Alvarado
& Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10065
PLAN NO. 96-00152

SEA JOB NO. 974.00

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

**MULTI-PURPOSE
TRANSIT CENTER**

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Corporation, P.C.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

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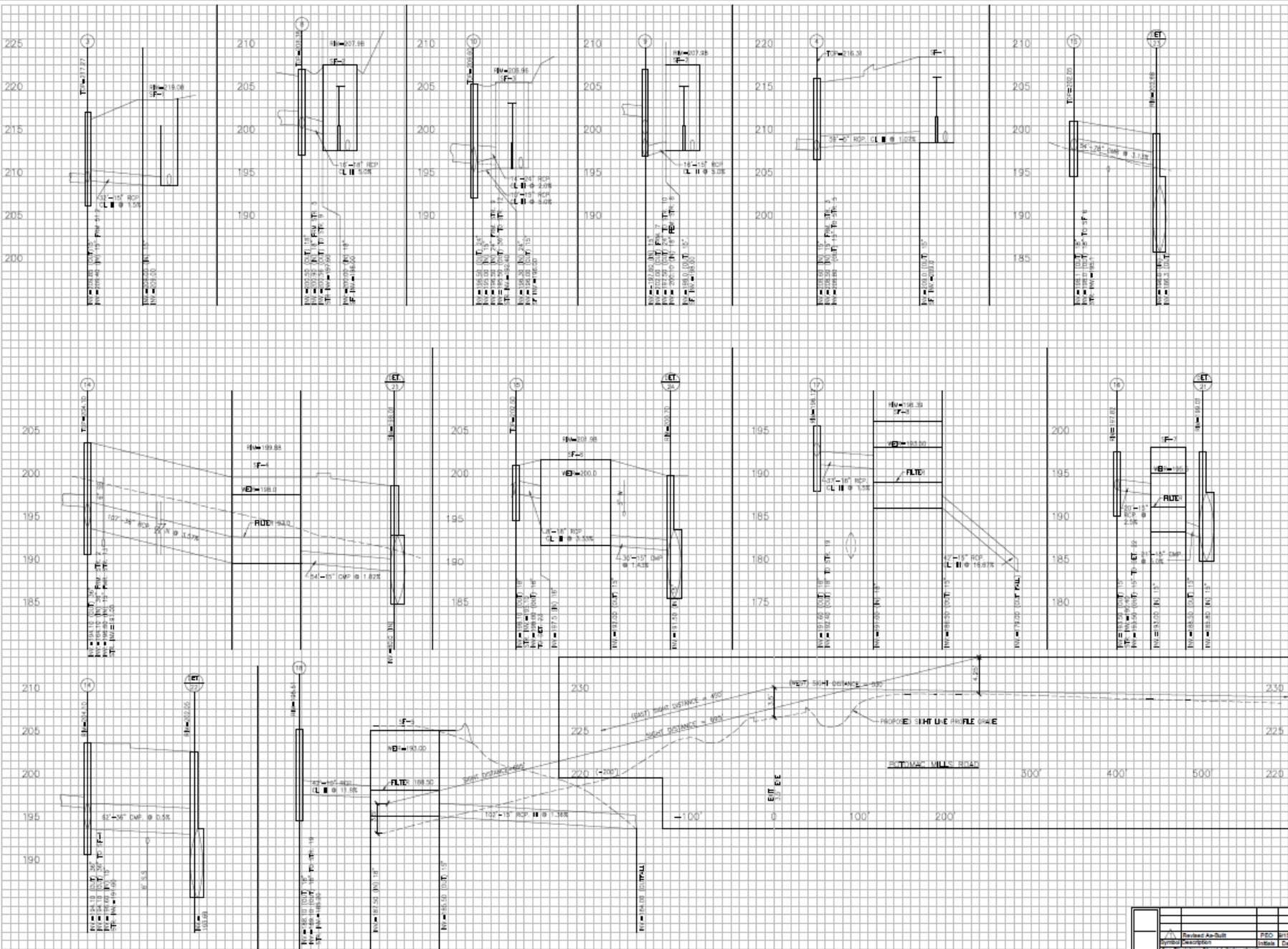
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SEWER & ROAD
PROFILES**

DATE: SEPTEMBER 29, 1995

DRAWING NUMBER

C-16

18 OF 26



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1	5-16-96	PERMIT REVISIONS



Gauthier, Alvarado & Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10005

PLAN NO. 95-00152

SEA JOB NO. 974.000

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK TRANSPORTATION COMMISSION

MULTI-PURPOSE TRANSIT CENTER

TRANSPORTATION CONSULTANTS: SG Associates, Inc.

SITE ENGINEERS: Springfield Engineering Corporation, P.C.

PLANNING LANDSCAPE AND SIGNAGE CONSULTANTS: Coffin & Coffin

REVISIONS

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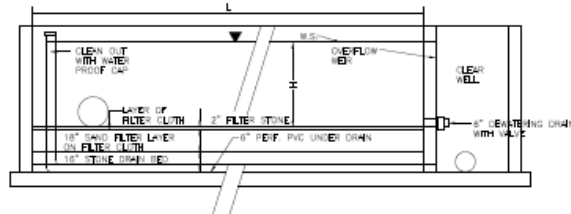
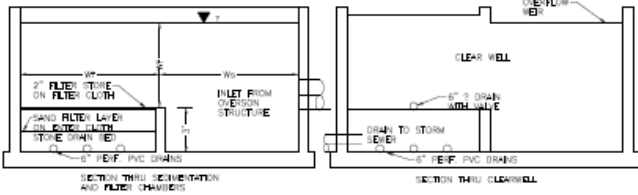
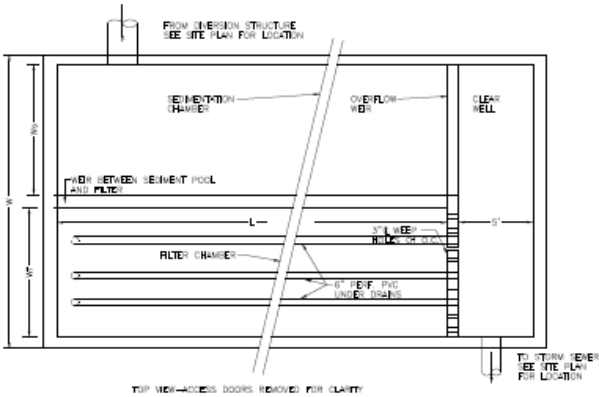
SAND FILTER DETAILS

DATE: SEPTEMBER, 29, 1995

DRAWING NUMBER

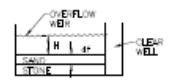
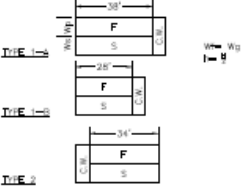
C-17

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SAND FILTER NO.	TYPE	A AC	I ₁ AC	H	I	d	AREA OF FILTER REVS		L	W	# OF	DESIGN VOLUME (G.F.)		
							342	342				219.0	209.0	216.0
1	1-A	1.65	1.40	4.0	2.0	1.5	327	342	38	9	219.0	209.0	216.0	2736
2	1-A	1.85	1.56	4.5	2.25	1.5	340	342	38	9	208.0	199.0	205.5	3078
3	1-A	1.89	1.60	4.5	2.25	1.5	348	342	38	9	206.0	199.0	203.5	3078
4	1-B	1.24	1.31	5.0	2.5	1.5	254	292	28	9	200.0	190.0	198.0	2920
5	2	1.64	1.39	4.5	2.25	1.5	303	306	34	9	195.0	185.0	193.0	2754
6	1-A	1.48	1.24	5.0	2.5	1.5	327	342	38	9	202.0	192.0	200.0	3420
7	1-B	1.10	0.94	4.0	2.0	1.5	220	342	38	9	198.0	188.0	195.0	2016
8	1-B	1.21	1.03	4.0	2.0	1.5	241	292	28	9	198.0	186.5	193.5	2018
TOTAL											21318			

$A = (W)(H) - Wd = 296HL - 15dL$
 $I = H - d$
REQUIRED FILTER AREA = $A^2 = 549 Ld^3$
 $H + d^2$



- 1. SAND FILTERS AND APPURTENANCES SHALL BE MAINTAINED IN GOOD WORKING CONDITION ACCORDABLE TO THE COUNTY.
- 2. THE SAND FILTERS AND APPURTENANCES SHALL BE PERIODICALLY DUNE AND MAINTAINED.
- 3. THE LAYERSHED SHALL DIVIDE INTO AN ACCESSIBLE WITH A RESPONSIBLE PARTY TO CLEAN THE SAND FILTERS IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - A) THE WATER LEVEL IN THE FILTER CHAMBER SHALL BE MAINTAINED BY THE OWNER ON A SCHEDULED BASIS AND AFTER EACH MAJOR STORM FOR THE NEXT 24 HOURS AFTER COMPLETION OF THE FILTER CLEANING AND MAINTENANCE. THE WATER LEVEL SHALL BE MAINTAINED AT THE LEVEL OF THE WATER LEVEL AT THE TIME OF THE MAINTENANCE. THE MAINTENANCE SCHEDULE SHALL BE REVIEWED TO A SCHEDULED BASIS.
 - B) THE SAND FILTERS SHALL BE INSPECTED PERIODICALLY BY A REPRESENTATIVE OF THE OWNER AND THE CONTRACTOR.
 - C) THE SEDIMENT CHAMBER MUST BE CLEANED AFTER EACH MAJOR STORM. IF THE CHAMBER CONTAINS AN OIL SPILL, IT SHALL BE CLEANED BY A PERSON QUALIFIED TO DO SO. AFTER CLEANING, THE CHAMBER MATERIALS SHALL BE REMOVED BY A PERSON QUALIFIED TO DO SO. THE MATERIALS SHALL BE REMOVED AND RECYCLED OR REUSED IN A MANNER THAT MEETS THE COUNTY REQUIREMENTS.
 - D) WHEN THE FILTERS ARE CLEANED, THE FILTERS SHALL BE MAINTAINED TO THE TOP LAYER OF FILTER CLOTH AND BALLAST DRAINAGE SHALL BE MAINTAINED WITH NEW MATERIALS. THE MATERIALS SHALL BE MAINTAINED WITH NEW MATERIALS AND RECYCLED OR REUSED IN A MANNER THAT MEETS THE COUNTY REQUIREMENTS.
 - E) WORKING MATERIALS, FILTERS, AND OTHER PARTS SHALL BE KEPT CLEAN AND READY FOR USE.
- 4. THE LAYERSHED SHALL MAINTAIN A COPY OF A MAINTENANCE AGREEMENT ON FILE WITH PRINCE WILLIAM COUNTY AT ALL TIMES.
- 5. THE OBTAINING OF THE MAINTENANCE OPERATOR ARE SUBJECT TO REVIEW AND APPROVAL BY PRINCE WILLIAM COUNTY.
- 6. SAND FILTER MAINTENANCE RECORDS SHALL BE KEPT ON-SITE AND SHALL BE MADE AVAILABLE TO COUNTY OFFICIALS UPON REQUEST.

SAND FILTER CONSTRUCTION SPECIFICATIONS

- 1. THE SITE DESIGN AND SEDIMENT CONTROL PLAN MUST BE CONFORMED TO THE CONSTRUCTION OF THE FILTER SYSTEM WHILE MAINTAINING EXISTING SEDIMENT CONTROL.
- 2. NO RAINFALL IS TO ENTER THE SAND FILTER SYSTEM PRIOR TO COMPLETION OF ALL CONSTRUCTION AND THE LOCATION OF CONSTRUCTION SHALL BE MAINTAINED IN A MANNER THAT MAINTAINS EXISTING SEDIMENT CONTROL. THE FILTER SYSTEM SHALL COMPLY WITH THE COUNTY REQUIREMENTS FOR THE FILTER SYSTEM. ALL CONSTRUCTION SHALL BE MAINTAINED WITH NEW CLEAN MATERIALS.
- 3. THE TOP OF THE SAND FILTER MUST BE MAINTAINED TO BE AT LEAST 4" ABOVE THE TOP OF THE CLEARWELL. THE CLEARWELL SHALL BE MAINTAINED TO BE AT LEAST 4" ABOVE THE TOP OF THE SAND FILTER. THE CLEARWELL SHALL BE MAINTAINED TO BE AT LEAST 4" ABOVE THE TOP OF THE SAND FILTER.
- 4. ACCESS WALKWAYS TO THE FILTER SYSTEM SHALL CONFORM TO PRINCE WILLIAM COUNTY STANDARDS.
- 5. AFTER COMPLETION OF THE FILTER SYSTEM, THE OWNER SHALL MAINTAIN THE FILTER SYSTEM IN A MANNER THAT MEETS THE COUNTY REQUIREMENTS. THE FILTER SYSTEM SHALL BE MAINTAINED TO BE AT LEAST 4" ABOVE THE TOP OF THE SAND FILTER. THE CLEARWELL SHALL BE MAINTAINED TO BE AT LEAST 4" ABOVE THE TOP OF THE SAND FILTER.

SAND FILTER BAKEN DETAILS

THE SAND FILTER BAKEN DETAILS SHALL BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR SAND FILTER BAKEN DETAILS.

INLET STRUCTURE - THE INLET STRUCTURE SHOULD BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR INLET STRUCTURE. THE INLET STRUCTURE SHALL BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR INLET STRUCTURE.

GRAVEL - FILTER BED SAND SHOULD MEET THE REQUIREMENTS OF ASTM D-2875. THE GRAVEL SHOULD BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR GRAVEL. THE GRAVEL SHOULD BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR GRAVEL.

NOTE: SAND BED DETAIL ARE FINAL COMPACTED DETAIL CONSIDERATION EFFECTS MUST BE TAKEN INTO ACCOUNT.

LAYER 1 - THE TOP LAYER SHOULD BE A MINIMUM OF 2" OF SAND OVER THE SAND. A 1" THIN LAYER OF 1/2" TO 2" SAND SHOULD BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR LAYER 1. THE SAND SHOULD BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR LAYER 1.

THE LATERALS SHOULD BE WRAPPED IN GEOTEXTILE FABRIC. THE GEOTEXTILE FABRIC IS NEEDED TO PREVENT THE FILTER MEDIA FROM FILTERING INTO THE LATERAL PIPING.

THE GEOTEXTILE FABRIC SHOULD MEET THE FOLLOWING SPECIFICATIONS:

PROPERTY	UNIT	MINIMUM	TYPICAL	MAXIMUM
PERMEABILITY	CM/S	0.02	0.02	0.02
APERTURE	UM	100	100	100
TEARS PER METRE	CM	10	10	10
STRETCH	PER CENT	5	5	5
UV STABILIZED	PER CENT	50	50	50

INSTALLATION - THE UNDER DRAIN PIPING SHOULD BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR UNDER DRAIN PIPING. THE UNDER DRAIN PIPING SHOULD BE MAINTAINED TO MEET THE COUNTY STANDARDS FOR UNDER DRAIN PIPING.

THE MINIMUM GRADE OF PIPING SHOULD BE 1/4" PER FOOT (1% SLOPE) FOR CLEANING ALL UNDER DRAIN PIPING.

Symbol	Description	PRO. STATUS



Gauthier, Alvarado
& Associates, Inc.
Architecture Engineering Planning

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

**MULTI-PURPOSE
TRANSIT CENTER**

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
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PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

NO.	DATE	DESCRIPTION
1	3-11-95	PRINT FOR BIDDING
1	5-10-95	PERMIT REVISIONS

DRAWN KLT

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DRAWING TITLE

**DRAINAGE
DIVIDES**

DATE SEPT. 29, 1995

DRAWING NUMBER

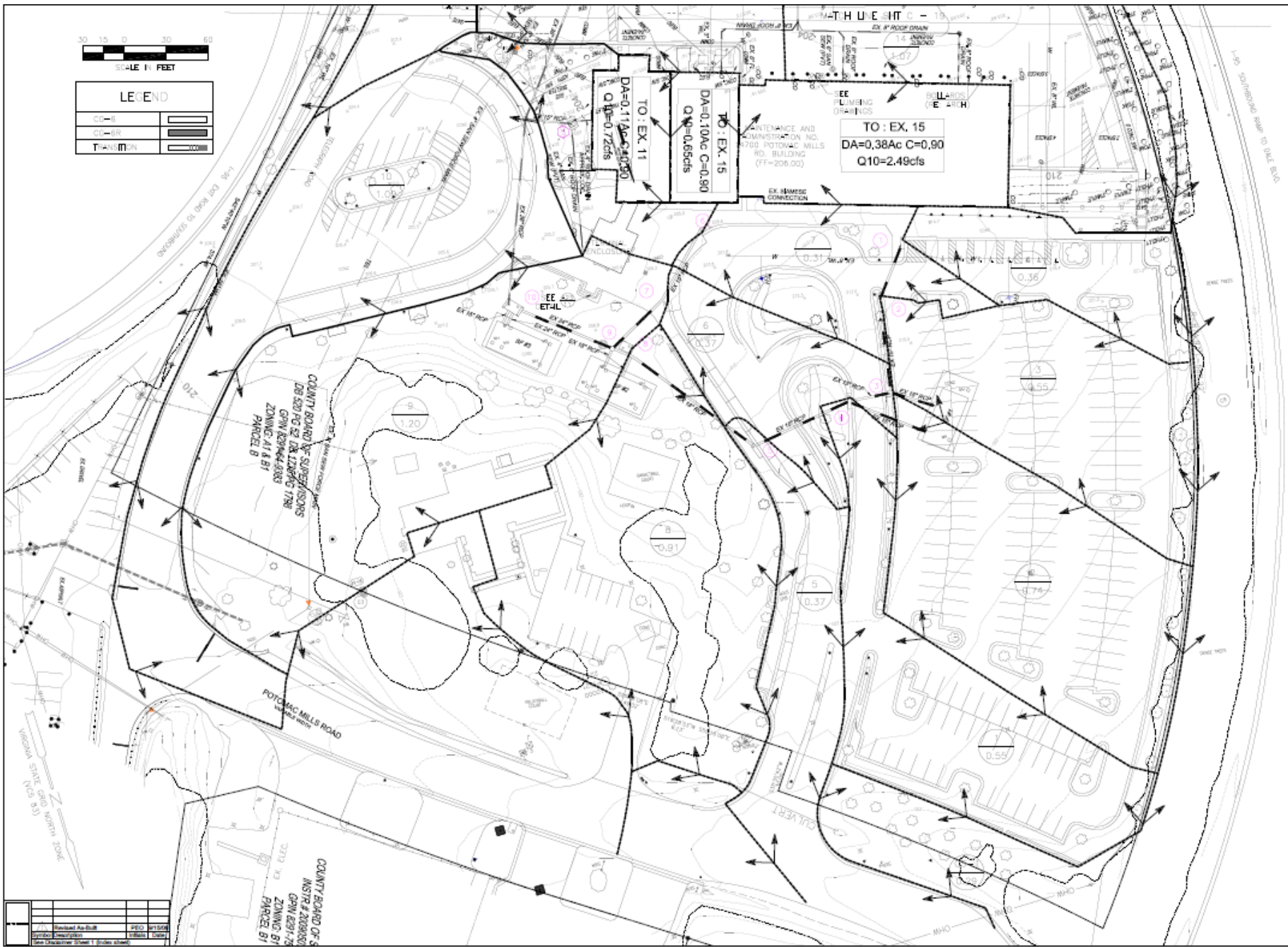
C-18

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LEGEND

CO-E	
CO-B	
TRANSITION	



NO.	DATE	DESCRIPTION
1	3-11-95	PRINT FOR BIDDING
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REVISIONS



Gauthier, Alvarado
& Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10085
PLAN NO. 96-00152

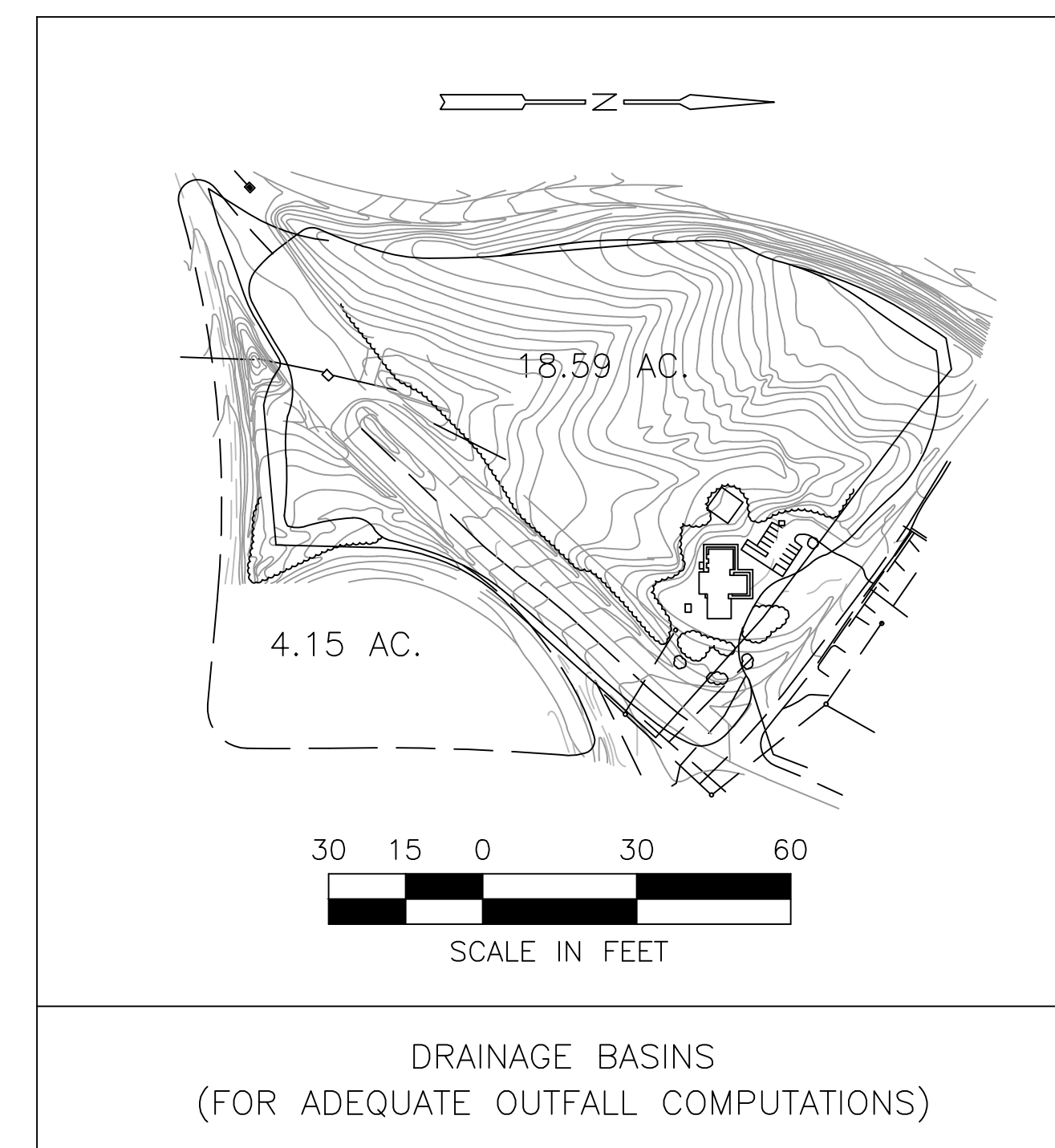
SEA JOB NO. 974.000

PROJECT TITLE

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TRANSPORTATION COMMISSION

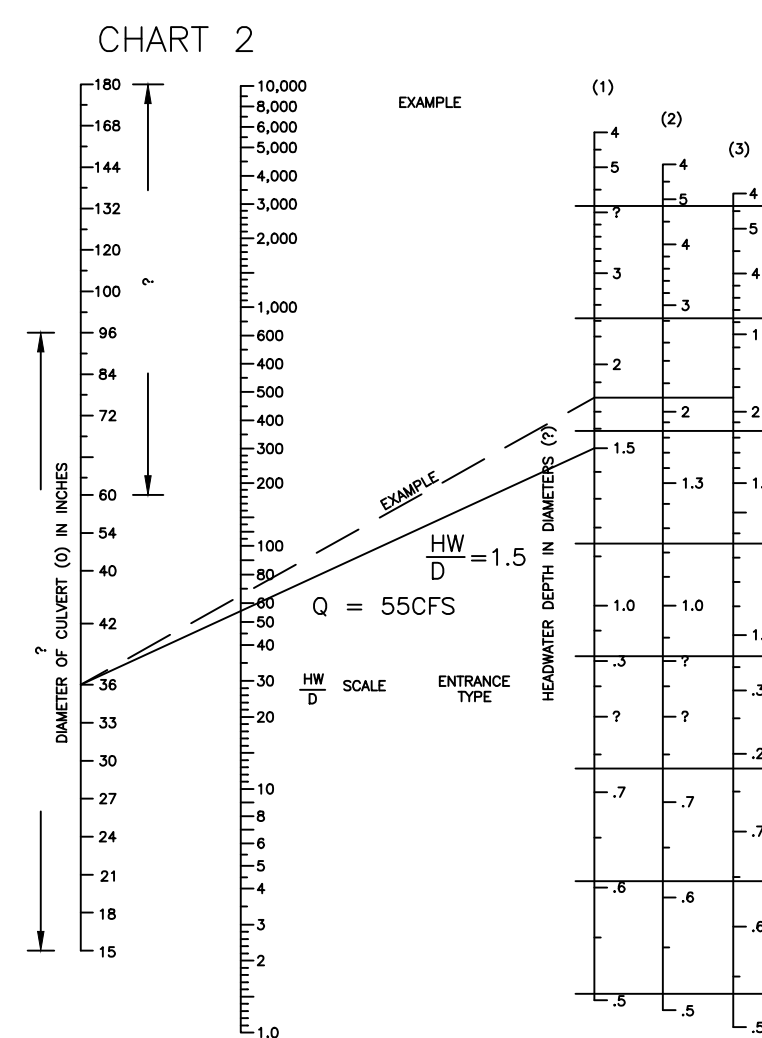
MULTI-PURPOSE TRANSIT CENTER



DRAINAGE BASINS
(FOR ADEQUATE OUTFALL COMPUTATIONS)

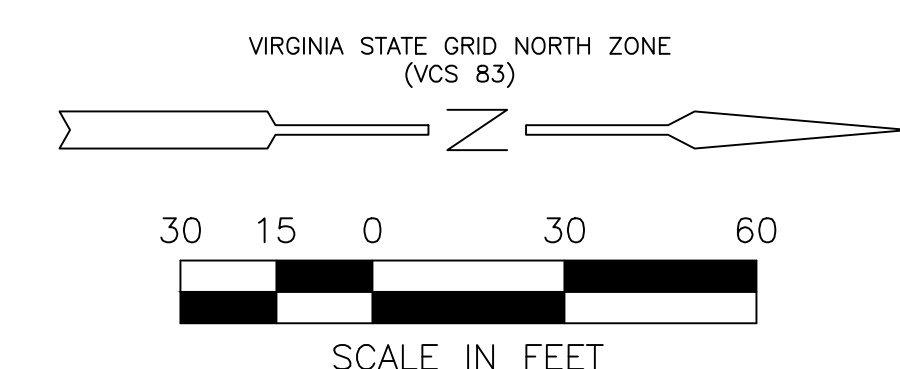
NOTE: RUNOFF COEFFICIENT FOR ALL
DEVELOPED BASINS C=0.85.

LEGEND	
CG-6	
CG-6R	
TRANSITION	



ADEQUATE OUTFALL OFF-SITE BASIN

A = 4.15 AC.
C = [1.0 (0.9)+3.15 (.3)]+4.15 = 0.44
 $T_c = 10$ MIN.
 $I_{10} = 5.92$
 $Q_0 = 4.15 (0.44)(5.92) = 10.8CFS$
TOTAL Q = 10.8+18.0 (FROM DETENTION)
TOTAL Q = 28.8CFS < 55CFS CAPACITY
∴ OUTFALL IS ADEQUATE



Symbol	Description	PEO	9/15/06
	Revised As-Built	Initials	Date
See Disclaimer Sheet 1 (Index sheet)			

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SITE ENGINEERS:
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SIGNAGE CONSULTANTS:
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DRAWING TITLE
**DRAINAGE
DIVIDES**

DATE SEPT. 29, 1995

DRAWING NUMBER
C-19
19 OF 29



Gauthier, Alvarado & Associates, Inc.
Architecture Engineering Planning

PROJECT NO. 10005
PLAN NO. 96-0012
SEA JOB NO. 974.000

PROJECT TITLE
PRTC
POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

**MULTI-PURPOSE
TRANSIT CENTER**

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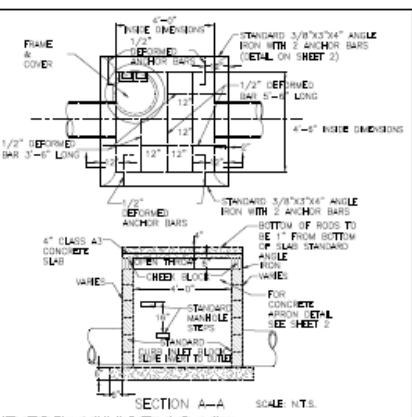
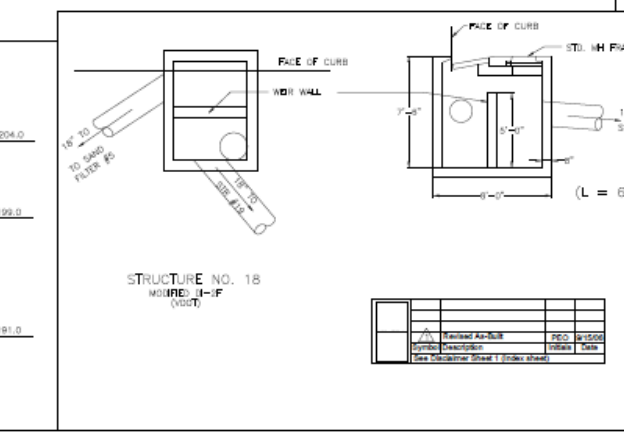
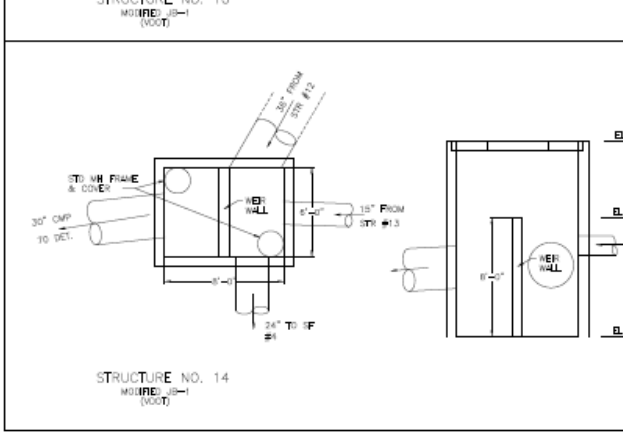
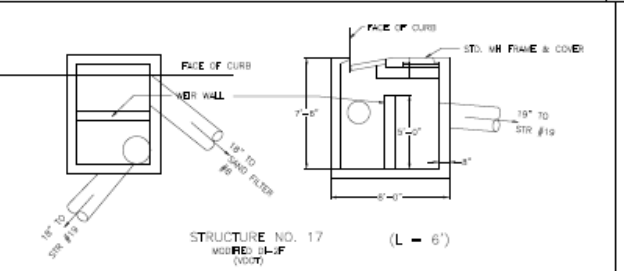
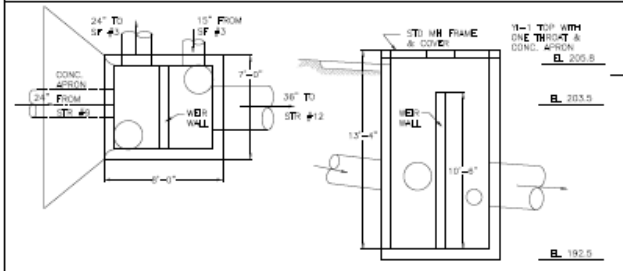
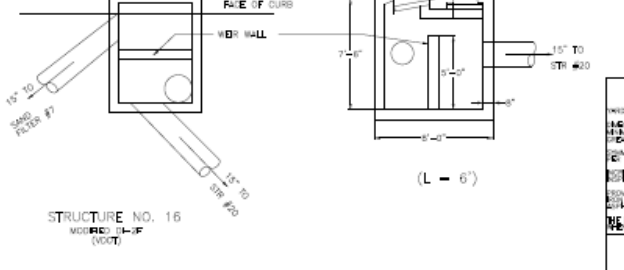
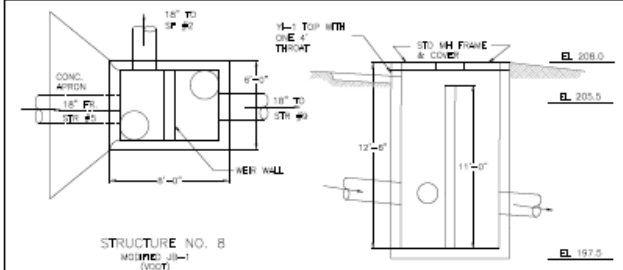
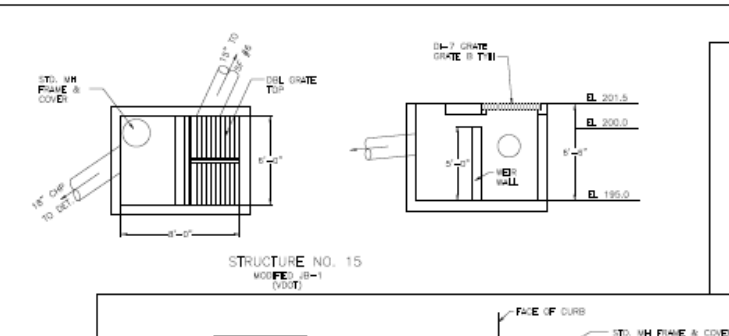
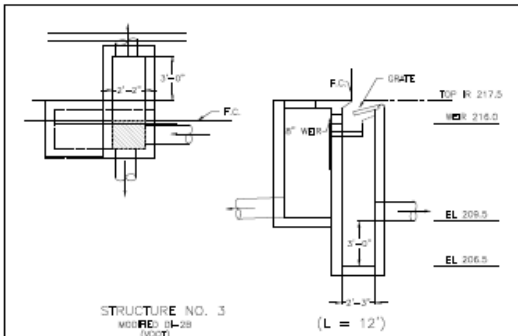
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DRAWING TITLE
**STORM SEWER
DETAILS**

DATE: SEPT. 29, 1995

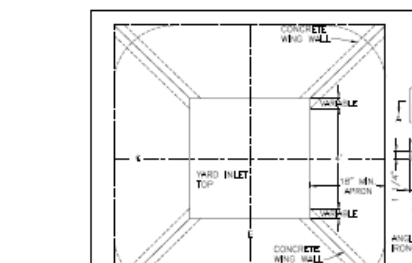
DRAWING NUMBER
C-20



SECTION A-A SCALE N.T.S.

NOTE: THE HORIZONTAL BOTH AND FACE INVERT OF THIS INLET FOR SLOPED PIPE AS DIRECTED BY THE ENGINEER. THE HORIZONTAL BOTH AND FACE INVERT OF THIS INLET FOR SLOPED PIPE AS DIRECTED BY THE ENGINEER. THE HORIZONTAL BOTH AND FACE INVERT OF THIS INLET FOR SLOPED PIPE AS DIRECTED BY THE ENGINEER.

REVISION	BY	DATE
1	GA	07-29-95
2	GA	08-01-95
3	GA	08-01-95



SCALE N.T.S.

NOTE: CONCRETE APRONS TO BE BUILT ON ALL WARD INLETS. REINFORCING SHALL BE #3'S NO. 6 WIRE. VIEW ALL CONCRETE SHALL BE CLASS AT LENGTH 0 APRON MAY BE INCREASED TO 3\"/>

NOTE: WHEN APRONS ARE ON ADJACENT SIDES OF INLET THE ADJACENT WING WALLS WILL BE OMITTED AND APRON SHALL HAVE 18\"/>

NOTE: CONCRETE APRONS SHALL BE BUILT ON CENTERLINE OF INLET. THE ADJACENT APRONS SHALL BE BUILT ADJOINING THE COMMON CORNER, AND IF THERE ARE THREE OR FOUR CONCRETE APRONS ON ONE INLET THEN ALL APRONS SHALL BE BUILT ON CENTERLINE OF INLET.

ALTERNATE STEP DETAIL

ANCHOR BAR DETAIL PLAN

ANCHOR BAR DETAIL ELEVATION

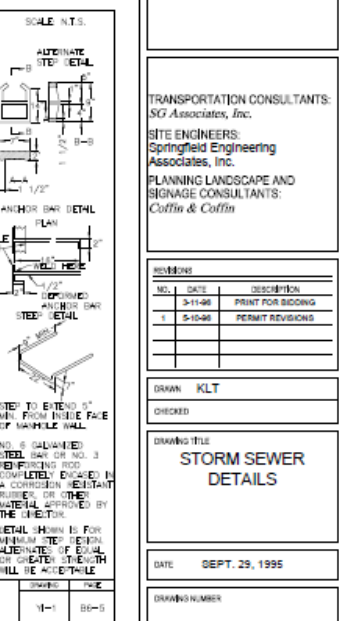
STEP TO EXTEND 5\"/>

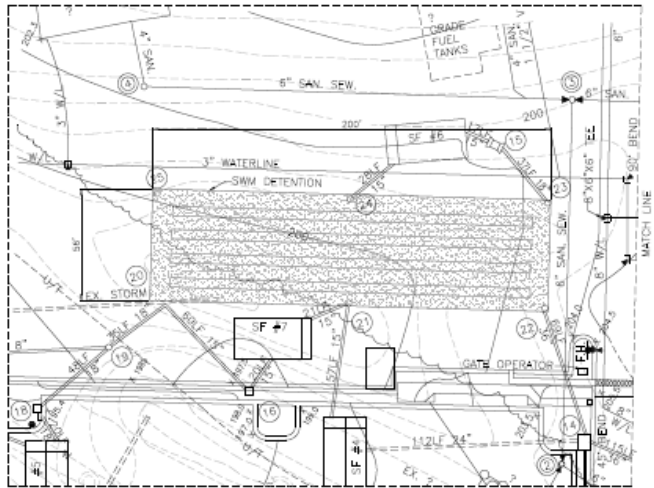
NOTE: GALVANIZED STEEL BAR OF NO. 3 REINFORCING ROD COMPLETELY ENCASED IN A CORROSION RESISTANT RUBBER OR OTHER MATERIAL APPROVED BY THE ENGINEER.

DETAIL SHOWN IS FOR WARD INLET. DETAIL ALTERNATE OF EQUAL OR GREATER STRENGTH WILL BE ACCEPTABLE.

TYPICAL CONCRETE APRON FOR WARD INLET

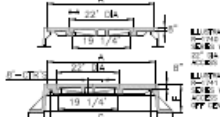
NO.	DATE	DESCRIPTION
1	3-11-96	PRINT FOR BIDDING
2	5-10-96	PERMIT REVISIONS





19-1740-1 SERIES LAYE WALLS FRAME
SLE UP WITH
REINFORCING BARS (UD)

KEY TO CUT:
A - GRADE WITH UNIFORM SLOPES (SEE GENERAL NOTES)
B - EXISTING GRADE
C - FINISHED GRADE
D - EXISTING GRADE WITH UNIFORM SLOPES (SEE GENERAL NOTES)



NEENAH NF
FOUNDRY COMPANY



ALUMINUM
DOME WITH 1/2" (UD) (SEE GENERAL NOTES)

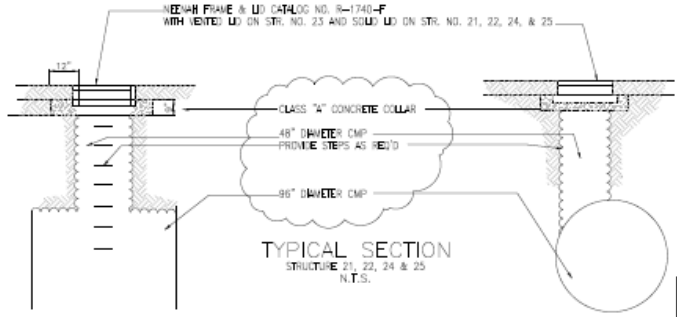
ALUMINUM
DOME WITH 1/2" (UD) (SEE GENERAL NOTES)

ALUMINUM
DOME WITH 1/2" (UD)

GRADE	INCHES IN FEET		LL	RT	1
NO.	A	B	IN	FT	NO.
1	14.16	14.16	14.16	14.16	14.16
2	14.16	14.16	14.16	14.16	14.16
3	14.16	14.16	14.16	14.16	14.16
4	14.16	14.16	14.16	14.16	14.16
5	14.16	14.16	14.16	14.16	14.16
6	14.16	14.16	14.16	14.16	14.16
7	14.16	14.16	14.16	14.16	14.16
8	14.16	14.16	14.16	14.16	14.16
9	14.16	14.16	14.16	14.16	14.16
10	14.16	14.16	14.16	14.16	14.16
11	14.16	14.16	14.16	14.16	14.16
12	14.16	14.16	14.16	14.16	14.16
13	14.16	14.16	14.16	14.16	14.16
14	14.16	14.16	14.16	14.16	14.16
15	14.16	14.16	14.16	14.16	14.16
16	14.16	14.16	14.16	14.16	14.16
17	14.16	14.16	14.16	14.16	14.16
18	14.16	14.16	14.16	14.16	14.16
19	14.16	14.16	14.16	14.16	14.16
20	14.16	14.16	14.16	14.16	14.16
21	14.16	14.16	14.16	14.16	14.16
22	14.16	14.16	14.16	14.16	14.16
23	14.16	14.16	14.16	14.16	14.16
24	14.16	14.16	14.16	14.16	14.16
25	14.16	14.16	14.16	14.16	14.16
26	14.16	14.16	14.16	14.16	14.16
27	14.16	14.16	14.16	14.16	14.16
28	14.16	14.16	14.16	14.16	14.16
29	14.16	14.16	14.16	14.16	14.16
30	14.16	14.16	14.16	14.16	14.16
31	14.16	14.16	14.16	14.16	14.16
32	14.16	14.16	14.16	14.16	14.16
33	14.16	14.16	14.16	14.16	14.16
34	14.16	14.16	14.16	14.16	14.16
35	14.16	14.16	14.16	14.16	14.16
36	14.16	14.16	14.16	14.16	14.16
37	14.16	14.16	14.16	14.16	14.16
38	14.16	14.16	14.16	14.16	14.16
39	14.16	14.16	14.16	14.16	14.16
40	14.16	14.16	14.16	14.16	14.16
41	14.16	14.16	14.16	14.16	14.16
42	14.16	14.16	14.16	14.16	14.16
43	14.16	14.16	14.16	14.16	14.16
44	14.16	14.16	14.16	14.16	14.16
45	14.16	14.16	14.16	14.16	14.16
46	14.16	14.16	14.16	14.16	14.16
47	14.16	14.16	14.16	14.16	14.16
48	14.16	14.16	14.16	14.16	14.16
49	14.16	14.16	14.16	14.16	14.16
50	14.16	14.16	14.16	14.16	14.16
51	14.16	14.16	14.16	14.16	14.16
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53	14.16	14.16	14.16	14.16	14.16
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55	14.16	14.16	14.16	14.16	14.16
56	14.16	14.16	14.16	14.16	14.16
57	14.16	14.16	14.16	14.16	14.16
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65	14.16	14.16	14.16	14.16	14.16
66	14.16	14.16	14.16	14.16	14.16
67	14.16	14.16	14.16	14.16	14.16
68	14.16	14.16	14.16	14.16	14.16
69	14.16	14.16	14.16	14.16	14.16
70	14.16	14.16	14.16	14.16	14.16
71	14.16	14.16	14.16	14.16	14.16
72	14.16	14.16	14.16	14.16	14.16
73	14.16	14.16	14.16	14.16	14.16
74	14.16	14.16	14.16	14.16	14.16
75	14.16	14.16	14.16	14.16	14.16
76	14.16	14.16	14.16	14.16	14.16
77	14.16	14.16	14.16	14.16	14.16
78	14.16	14.16	14.16	14.16	14.16
79	14.16	14.16	14.16	14.16	14.16
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81	14.16	14.16	14.16	14.16	14.16
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83	14.16	14.16	14.16	14.16	14.16
84	14.16	14.16	14.16	14.16	14.16
85	14.16	14.16	14.16	14.16	14.16
86	14.16	14.16	14.16	14.16	14.16
87	14.16	14.16	14.16	14.16	14.16
88	14.16	14.16	14.16	14.16	14.16
89	14.16	14.16	14.16	14.16	14.16
90	14.16	14.16	14.16	14.16	14.16
91	14.16	14.16	14.16	14.16	14.16
92	14.16	14.16	14.16	14.16	14.16
93	14.16	14.16	14.16	14.16	14.16
94	14.16	14.16	14.16	14.16	14.16
95	14.16	14.16	14.16	14.16	14.16
96	14.16	14.16	14.16	14.16	14.16
97	14.16	14.16	14.16	14.16	14.16
98	14.16	14.16	14.16	14.16	14.16
99	14.16	14.16	14.16	14.16	14.16
100	14.16	14.16	14.16	14.16	14.16

3 1/2" DIA. CENTER UD LOCATED AT 10' DIA. FROM ALL CORNERS. CENTER UD OF THE 3 1/2" DIA. CENTER UD IS PLACED TO 30" OF FOUR CORNER POINT.

- 1. MAINTENANCE INSURANCE: A REPRESENTATIVE OF THE OWNER WILL INSPECT THE CONTROL BOX AND THE STRUCTURE AFTER EACH SEVENTY-TWO HOURS AFTER THE RAIN HAS STOPPED. IF WATER IS OBSERVED IN BOTH COMPARTMENTS OF THE CONTROL STRUCTURE MORE THAN 12 HOURS AFTER THE RAIN HAS STOPPED, THEN THE OUTLET AND 3/4" DIA. PIPE WILL BE NOT OPERATED. CHECK THE FIRST END IN THE CONTROL STRUCTURE. IF IT IS RECOMMENDED THAT NO ONE ENTERS THE CONTROL STRUCTURE WHEN WATER IS STANDING IN THE STRUCTURE UNLESS ANOTHER ADULT IS STANDING BY OUTSIDE THE STRUCTURE. WHILE NOT COMMON IN STORM WATERS SPECIFICALLY, IT IS POSSIBLE THAT HEAVY-THUNDER STORMS COULD BE STRUCK ABOVE THE WATER. THIS IS NOT LIKELY IF THE WATER HAS DRAINER OFF SINCE THE HEAVY AIR WOULD ALSO DRAIN OUT THROUGH THE 15-INCH PIPE. UNLESS THE OUTLET END OF THE PIPE IS SURROUNDED BY WATER, ONLY THE SMALL COMPARTMENT CONTAINS STANDING WATER. THE 15-INCH HOLE IN THE CONCRETE WALL IS PROBABLY PLUGGED. IF THE MAINTENANCE PROBLEM WHICH IS MOST LIKELY TO OCCUR OTHER THAN SHUTTING OFF THE LITER, WORKERS CAN USUALLY CLEAR THE CREATING HOLE IN THE CONCRETE COMPONENT OF THE NEW WALL. ONCE EACH YEAR A REPRESENTATIVE OF THE OWNER AND A REPRESENTATIVE OF THE COUNTY WILL JOINTLY INSPECT THE ENTIRE DETENTION SYSTEM. APPROPRIATE UTILITY WILL BE TAKEN TO ENSURE PROPER MAINTENANCE. ALL MAINTENANCE COSTS WILL BE BORNE BY THE OWNER. HERE TO LOCATED ACCESS POINTS SHALL BE AVAILABLE TO PRINCE WILLIAM COUNTY PERSONNEL UPON REQUEST.
- 2. REMOVING TRASH, DEBRIS AND SEDIMENT: THE CONTROL STRUCTURE AND THE PIPE SHOULD ALSO BE CHECKED USING CITY REMOVED LITER AND SEDIMENT SHOULD BE REMOVED AS NEEDED TO PREVENT OBSTRUCTION TO THE FLOW OF WATER TO PREVENT MOVEMENT OF TRASH AND DEBRIS TO DOWNSTREAM PROPERTIES, TO MINIMIZE WATER POLLUTION AND TO ENSURE THAT THE SYSTEM ACCURATELY PERFORMS THE FUNCTION FOR WHICH IT WAS CONSTRUCTED.
- 3. SEDIMENT DISPOSAL: SEDIMENT DISPOSAL SHOULD BE IN ACCORDANCE WITH CURRENT PROCEDURES FOR DISPOSAL OF SEDIMENT WHERE NEEDED NECESSARY OR DISPOSABLE THE SEDIMENT WILL BE TESTED FOR APPROPRIATE POLLUTANTS BEFORE FINAL DISPOSAL.
- 4. PROPER MAINTENANCE: GRASS AND OTHER SOIL COVER SHOULD BE MAINTAINED IN ORDER TO MINIMIZE THE AMOUNT OF SEDIMENT ENTERING THE SYSTEM. TRASH AND LITER SHOULD BE COLLECTED ON A DAILY BASIS.
- 5. MAINTENANCE RECORDS: THE OWNER OR SOMEONE DESIGNATED BY THE OWNER SHALL KEEP WRITTEN RECORDS OF ALL INSPECTIONS. THE RECORDS SHALL INCLUDE MAINTENANCE AND REPAIRS PERFORMED. COPIES OF THESE RECORDS SHALL BE PROVIDED TO THE COUNTY UPON REQUEST.
- 6. THE SYSTEM SHALL NOT BE MODIFIED IN ANY WAY WITHOUT PRIOR APPROVAL BY PRINCE WILLIAM COUNTY.



STORMWATER MANAGEMENT NARRATIVE

THE PROJECT CONSISTS OF A 12.34 ACRES PARCEL TO BE DEVELOPED BY THE POTOMAC AND RAPPAHANNOCK TRANSPORTATION COMMISSION AT A BUS TERMINAL AND MAINTENANCE FACILITY. A PORTION OF THE SITE IS PRESENTLY OCCUPIED BY THE PRINCE WILLIAM COUNTY BOYS HOME AND AN ABANDONED SECTION OF LAKE BOULEVARD. THE BALANCE OF THE SITE IS COVERED WITH WOODED TREES.

STORMWATER QUALITY CONTROL WILL BE PROVIDED BY THE INSTALLATION OF EIGHT (8) 18" DIAMETER TRIPLE SAND FILTERS (SAND AND LOCATED TO INTERCEPT THE FIRST 1/2" INCH OF RUNOFF FOR 12.31 ACRES OF THE SITE. STORMWATER RETENTION IS PROVIDED BY AN UNDESIGNED DETENTION FACILITY CONSISTING OF 1000 CU. YD. 96 INCH DIAMETER CORRUGATED MET PIPE WITH THE OUTFLOW LIMITED TO LESS THAN THE PRE-DEVELOPMENT RATED FOR THE 2 YEAR, 10 YEAR, AND 25 YEAR DESIGN STORMS.

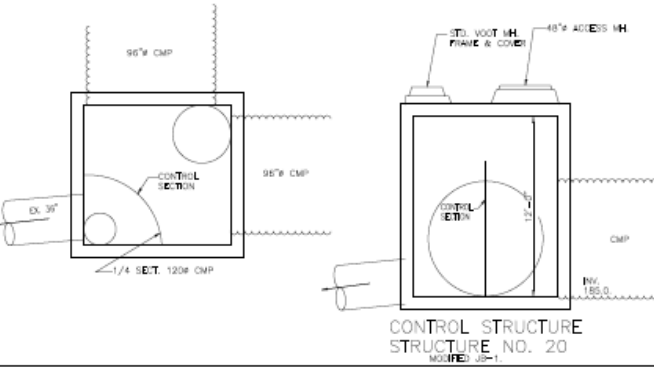
BOTH QUALITY CONTROL AND RETENTION ARE PROVIDED ON THE WHOLE SITE BEING DEVELOPED AS A COMMERCIAL USE (C-1) USES AT SOME FUTURE DATE.

STORMWATER RUNOFF WILL ENTER THE SYSTEM THROUGH A SERIES OF CURB FILTERS OR SAND FILTERS. SEDIMENT TO EXCEED A VOLUME EQUAL TO 1.5" INCH OF RUNOFF FOR THE CONTROL AREA TO THE SAND FILTERS. THE BALANCE IS ALLOWED TO FLOW TO THE DETENTION FACILITY. THESE UNDESIGNED STRUCTURES ARE PROVIDED WITH A THREE (3) FOOT DEEP SUMP TO PROVIDE SOME INITIAL DETENTION. FOR THE STORM FLOW, THE WATER COLLECTED TO THE SAND FILTERS WILL FIRST ENTER THE DETENTION FACILITY. THEREAFTER, A PORTION OF THE SEDIMENT LOAD WILL BE RETAINED AS THE FLOW FLEES AND OVERFLOWS INTO THE FILTER. (FINISHED) WRITING AS SHEET FLOW. SINCE THE FILTERS ARE 18" INCH (3') FEET ABOVE THE INVERT OF THE SEDIMENT SAND, THE SEDIMENT REMAINS TO WILL LIMIT THE RESUSPENSION OF PARTICLES COLLECTED BY PREVIOUS STORMS.

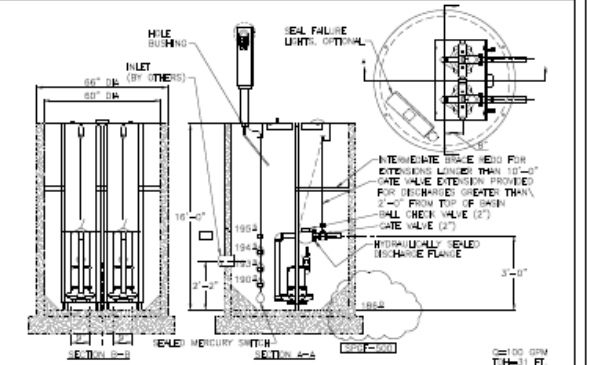
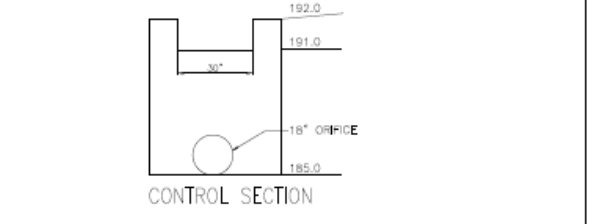
MAINTENANCE: THE FEE TITLE OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL OPERABLE STORMWATER AND BEST MANAGEMENT PRACTICES FACILITIES AND SYSTEMS IN ACCORDANCE WITH THE MAINTENANCE AGREEMENT TO INSURE THAT THEY FUNCTION PROPERLY.

SUBJECT TO OTHER LIMITATIONS, THE FEE TITLE OWNER MAY LANDSCAPE THE EXPOSED TO EROSION DETENTION, BERMS AND FENCES PROVIDED THAT DRAINAGE AND THE COUNTY'S ABILITY TO ACCESS THE EASEMENT IS NOT COMPROMISED AND THAT THE COUNTY IS NOT IN ANYWAY RESPONSIBLE FOR THE REPAIRS OF THESE LANDSCAPE ITEMS EVEN IF DAMAGED BY COUNTY FORCES.

NOTE: ALL REINFORCED CONCRETE PIPE SHALL BE CONSTRUCTED FOR 10-20 TYPICAL LADING.



NO.	DATE	DESCRIPTION	BY	CHKD.
1	5-11-98	PRINT FOR BIDDING		
2	5-15-98	PERMIT REVISIONS		
3	10-25-98	RCP TO CMP		
4	7-3-97	PUMP STATION		



INSTALLATION DRAWING
HYDR-O-RAIL HYDR-O-GRIND
IN CONCRETE SUMP



Gauthier, Alvarado
& Associates, Inc.
Architecture Engineering Planning

PROJECT NO. 10005
PLAN NO. 96-00102

SEA JOB NO. 974.000

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

MULTI-PURPOSE
TRANSIT CENTER

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.
SITE ENGINEERS:
Springfield Engineering
ASSOCIATES, INC.
PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

NO.	DATE	DESCRIPTION
1	3-11-98	PRINT FOR BIDDING
2	5-15-98	PERMIT REVISIONS
3	10-25-98	RCP TO CMP
4	7-3-97	PUMP STATION

DRAWN: KLT

CHECKED:

DRAWING TITLE:
DETENTION PIPE
DETAILS

DATE: SEPT. 29, 1995

DRAWING NUMBER

C-21
21 OF 28



Gauthier, Alvarado & Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10005
PLAN NO. 98-0012

SEA NO. 974.000

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

MULTI-PURPOSE TRANSIT CENTER

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Corporation, P.C.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS		
NO.	DATE	DESCRIPTION
1	3-11-99	PRINT FOR BIDDING
1	5-10-99	PERMIT REVISIONS

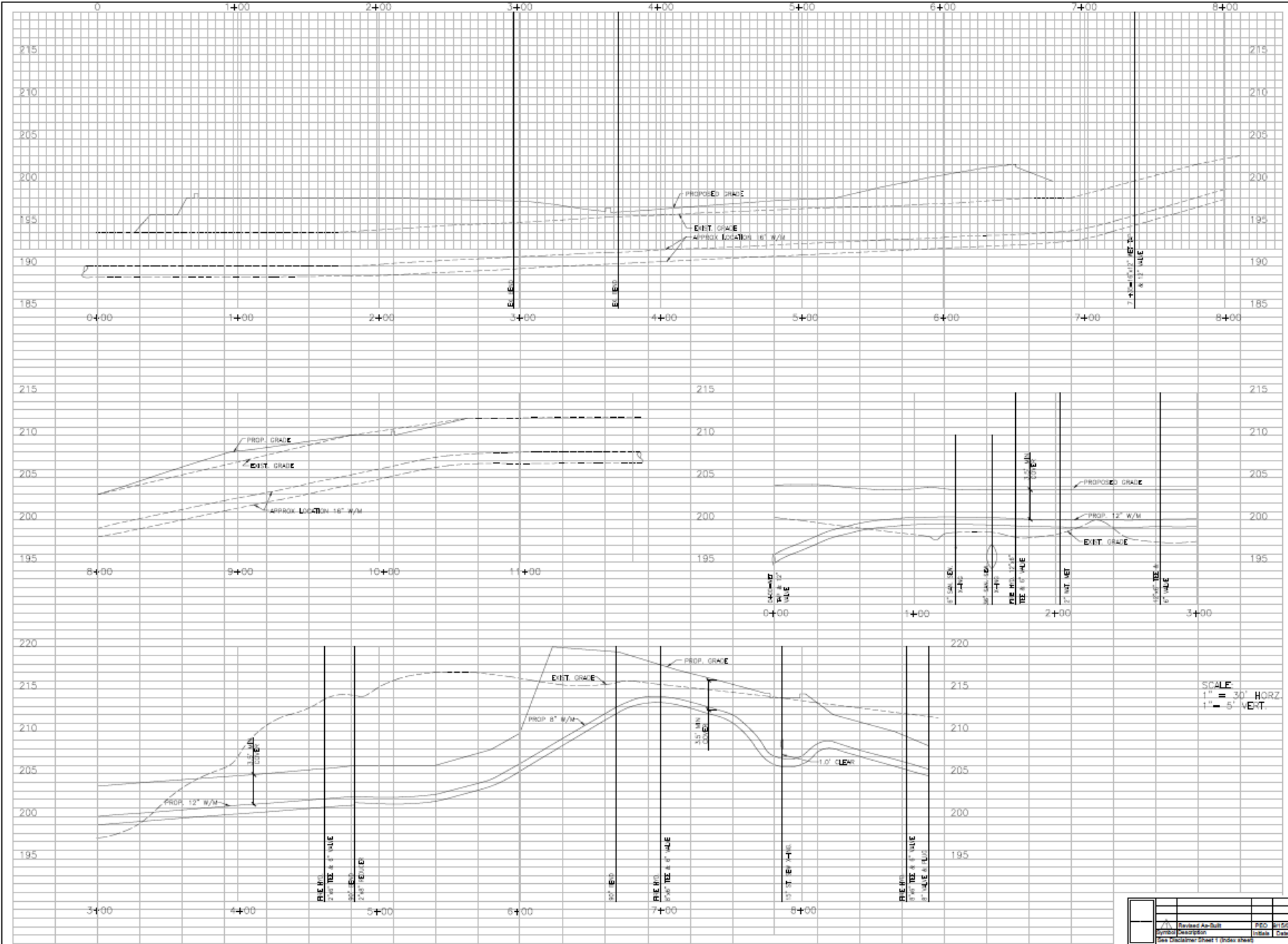
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CHECKED

DRAWING TITLE
**WATERLINE
PROFILES**

DATE

DRAWING NUMBER

C-22



1	Revised As-Built	PER	01/25/99
2	As-Built	ISS	01/25/99
See Enclosure Sheet 1 (Other Sheet)			



Gauthier, Alvarado
& Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10005
PLAN NO. 98-00152
SEA NO. 874.000

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

**MULTI-PURPOSE
TRANSIT CENTER**

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Corporation, P.C.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

NO.	DATE	DESCRIPTION
1	3-11-98	PRINT FOR BIDDING
1	5-10-98	PERMIT REVISIONS
2	7-3-97	PUMP STATION

DRAWN

CHECKED

DRAWING TITLE

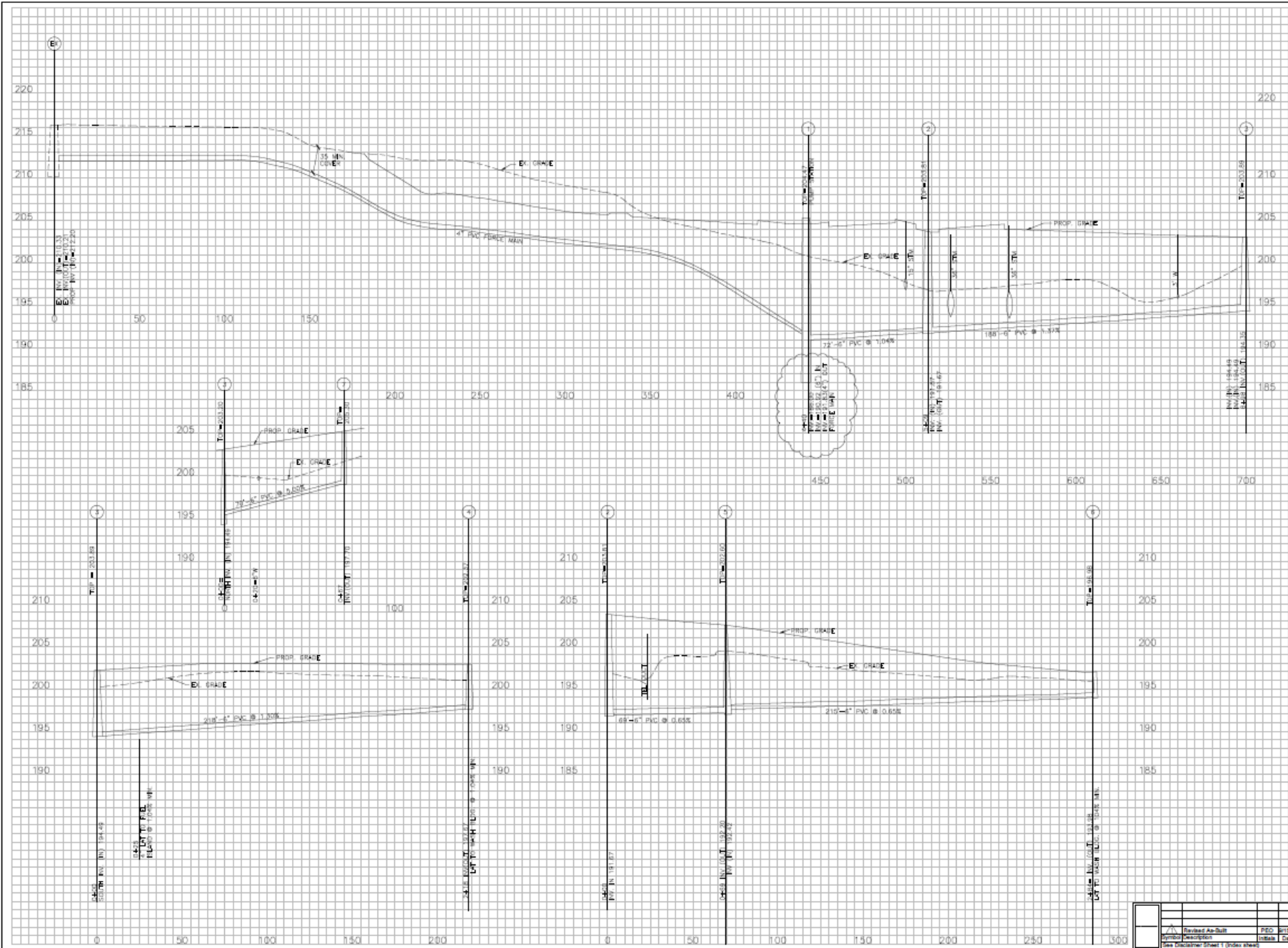
**SANITARY
SEWER
PROFILES**

DATE: SEPTEMBER 29, 1995

DRAWING NUMBER

C-23

33 OF 34



NO.	DATE	DESCRIPTION	INITIALS	DATE
1	3-11-98	Print for Bidding	PEO	3/11/98
1	5-10-98	Permit Revisions		
2	7-3-97	Pump Station		



Gauthier, Alvarado
& Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 1006
PLAN NO. 95-00152

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

**MULTI-PURPOSE
TRANSIT CENTER**

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Corporation, P.C.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

NO.	DATE	DESCRIPTION
1	3-11-95	PRINT FOR BIDDING
1	5-10-95	PERMIT REVISIONS

DRAWN: MA

CHECKED: MG

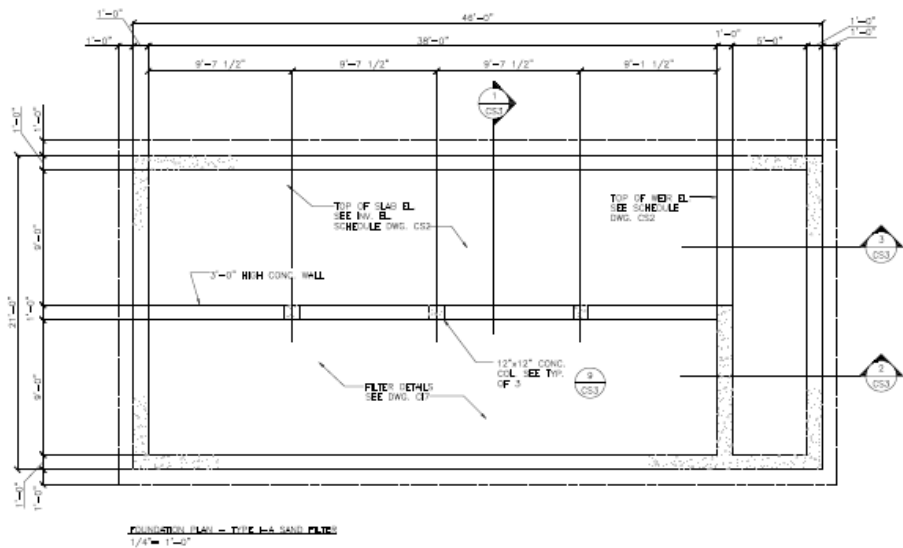
DRAWING TITLE
SAND FILTER PLANS

DATE: 9-29-95

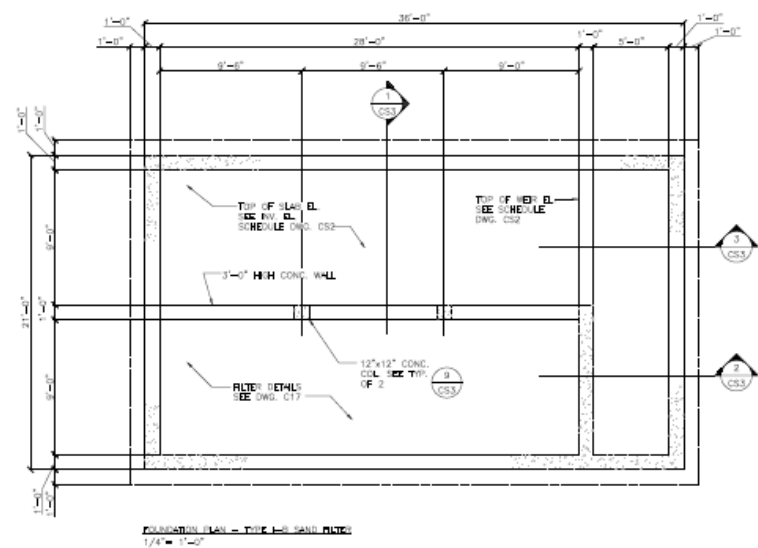
DRAWING NUMBER

CS-1

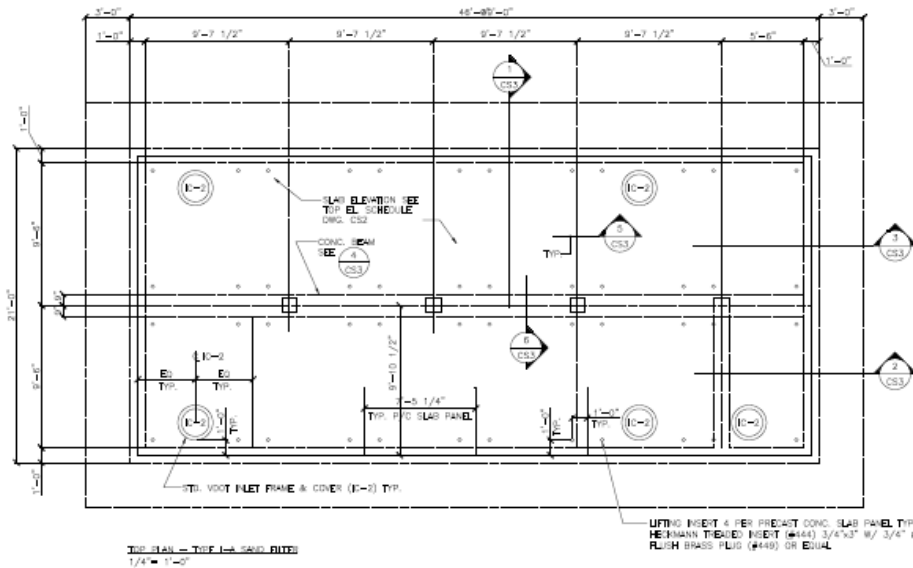
24 OF 28



FOUNDATION PLAN - TYPE I-A SAND FILTER
1/4" = 1'-0"

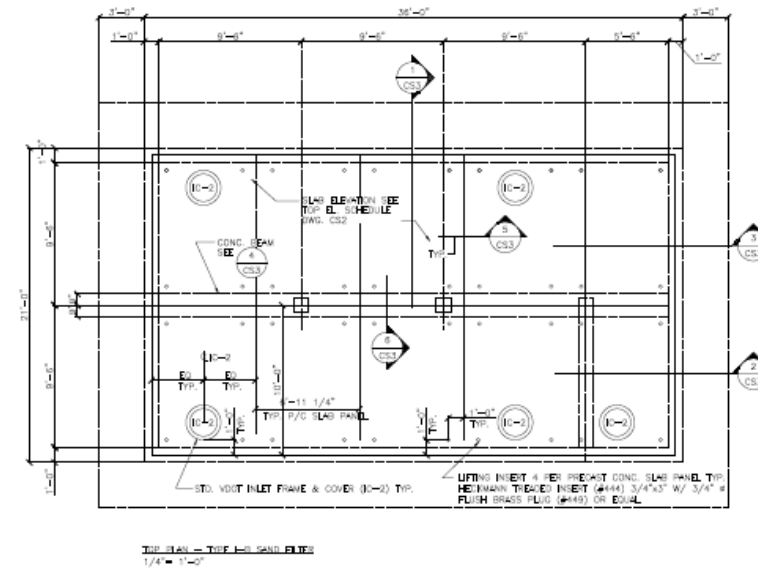


FOUNDATION PLAN - TYPE I-B SAND FILTER
1/4" = 1'-0"



TOP PLAN - TYPE I-A SAND FILTER
1/4" = 1'-0"

LIFTING INSERT 4 PER PRECAST CONC. SLAB PANEL, TYP.
HEIMANN TREATED INSERT (#444) 3/4"x3" W/ 3/4" x
FLUSH BRASS FLUID (#449) OR EQUAL



TOP PLAN - TYPE I-B SAND FILTER
1/4" = 1'-0"

LIFTING INSERT 4 PER PRECAST CONC. SLAB PANEL, TYP.
HEIMANN TREATED INSERT (#444) 3/4"x3" W/ 3/4" x
FLUSH BRASS FLUID (#449) OR EQUAL

NO.	DATE	DESCRIPTION
1	3-11-95	PRINT FOR BIDDING
1	5-10-95	PERMIT REVISIONS



Gauthier, Alvarado & Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 10006
PLAN NO. 96-00152

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

MULTI-PURPOSE
TRANSIT CENTER

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Corporation, P.C.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

NO.	DATE	DESCRIPTION
1	3-11-98	PRINT FOR BIDDING
1	5-15-98	PERMIT REVISIONS

DRAWN: MA

CHECKED: MG

DRAWING TITLE
SAND FILTER PLANS,
NOTES AND SCHEDULE

DATE: 9-29-95

DRAWING NUMBER

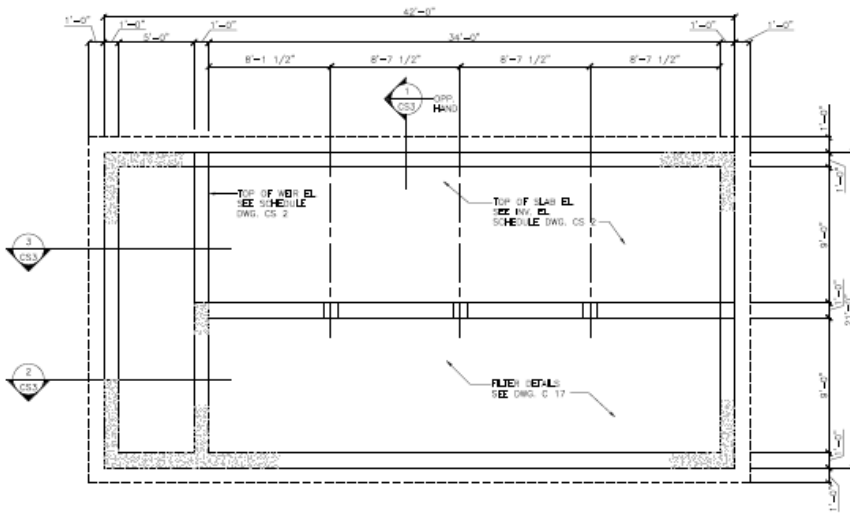
CS-2

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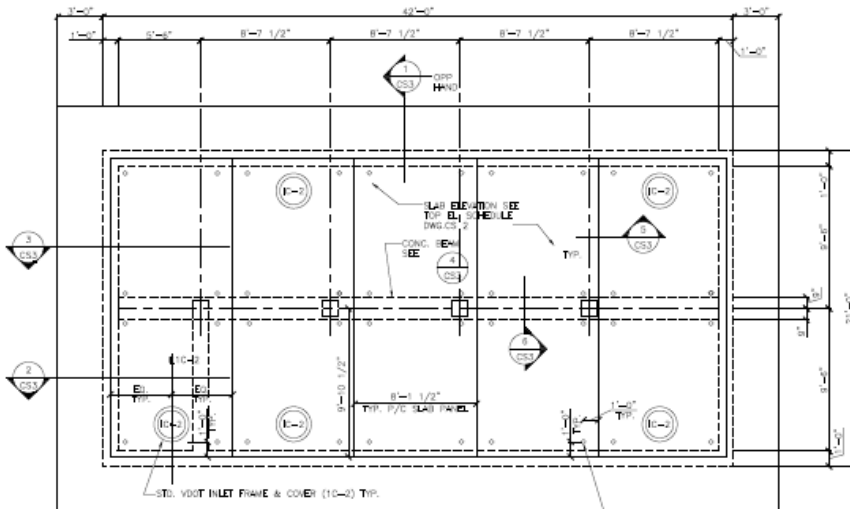
STRUCTURAL NOTES—SAND FILTERS

- DEAD LOADS:**
HEB-14
- FOUNDATION:**
-ASSUME SOIL BEARING VALUE 3000 PSF.
-WALLS SHALL BE BACKFILLED EVENLY ON ALL 4 SIDES OF STRUCTURE.
-FITTINGS TO REST A MINIMUM OF ONE FOOT INTO UNDISTURBED SOIL.
- CONCRETE:**
-CONCRETE STRENGTH:
FOOTINGS, COLUMNS, WALLS: 4000 PSI
AND ALL OTHERS: 3000 PSI
PRE-CAST SLABS: 4000 PSI
145 psi
145 psi
- REINFORCING BARS ASTM A-615, GRADE 60
-MIN. E 2#4 REB. UNLESS NOTED OTHERWISE
-CONCRETE PROTECTION FOR REINFORCING:
FOOTINGS = 3" WALLS = 2"
SLABS = 2"
-PRE-CAST SLABS = 1 1/2"
-PROVIDE 3/4" CHAIRS ON CONCRETE CORNERS THAT WILL BE EXPOSED TO VIEW.
-CAST IN PLACE CONCRETE WORK SHALL COMPLY WITH ACI 318-88.
-EXPURE REINFORCING BARS 60 THRU A CURVED END FROM TOP OF SECTION 25 OF AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
-USE AIR-ENTRAPPING ADMIXTURE IN ALL CONCRETE.
-LIFTING INSERTS: TYPICAL INSERT 3/4"x3" WITH THE ULTIMATE PULLOUT OF 12,000 LBS. #3/4" x 3" FLUSH BRASS PLUG (#449) OR EQUAL AND #449 OF APPROVED EQUAL.

SAND FILTER SCHEDULE						
MARK	TYPE	H(44)	TOP ELE'	FIN. ELE'	WBR. ELE'	REMARKS
1	1-A	4.0	219.0	209.0	216.0	
2	1-A	4.5	208.0	198.0	205.5	
3	1-A	4.5	208.0	198.0	205.5	
4	1-B	5.0	207.0	197.0	199.0	
5	2	4.5	195.5	185.5	193.0	
6	1-A	5.0	202.0	192.0	200.0	
7	1-B	4.0	196.5	186.5	195.5	
8	1-B	4.0	196.5	186.5	195.5	



FOUNDATION PLAN—TYPE 2 SAND FILTER
1/4" = 1'-0"



TOP PLAN—TYPE 2 SAND FILTER
1/4" = 1'-0"

LIFTING INSERT 4 PER PRECAST CONC. SLAB PANEL.
TYP. HEINEMANN TYPICAL INSERT (#449),
3/4" x 3"/ 3/4" FLUSH BRASS PLUG (#449) OR
EQUAL.

1	Revised As-Built	PCD	MS/MS
2	Revised	MS/MS	MS/MS
3	Revised	MS/MS	MS/MS

See Enclosure Sheet 1 (30th sheet)



Gauthier, Alvarado
& Associates, Inc.

Architecture Engineering Planning

PROJECT NO. 1005
PLAN NO. 99-0012

PROJECT TITLE

PRTC

POTOMAC AND RAPPAHANNOCK
TRANSPORTATION COMMISSION

**MULTI-PURPOSE
TRANSIT CENTER**

TRANSPORTATION CONSULTANTS:
SG Associates, Inc.

SITE ENGINEERS:
Springfield Engineering
Corporation, P.C.

PLANNING LANDSCAPE AND
SIGNAGE CONSULTANTS:
Coffin & Coffin

REVISIONS

NO.	DATE	DESCRIPTION
1	5-11-95	PRINT FOR BIDDING
1	5-10-95	PERMIT REVISIONS

DRAWN MA

CHECKED MG

DRAWING TITLE

**SAND FILTERS
SECTIONS AND
DETAILS**

DATE 9-29-95

DRAWING NUMBER

CS-3

28 OF 29

