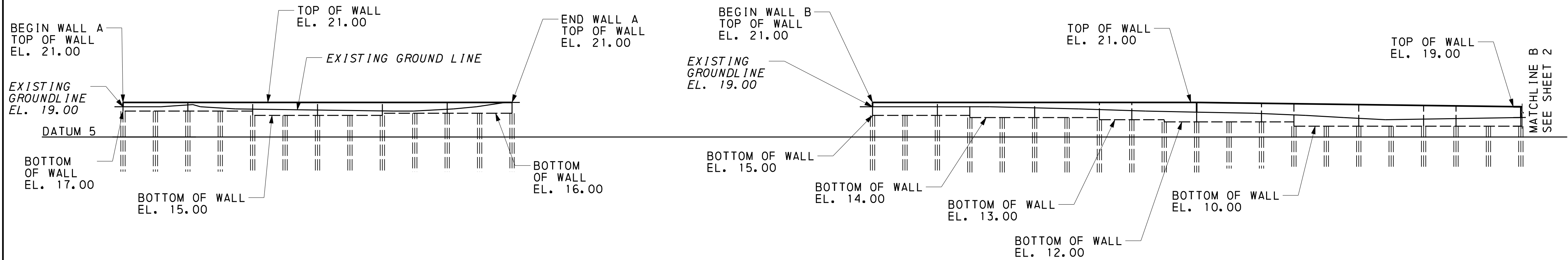
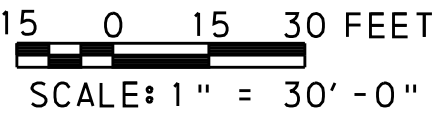
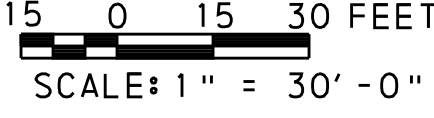


PLAN



ELEVATION

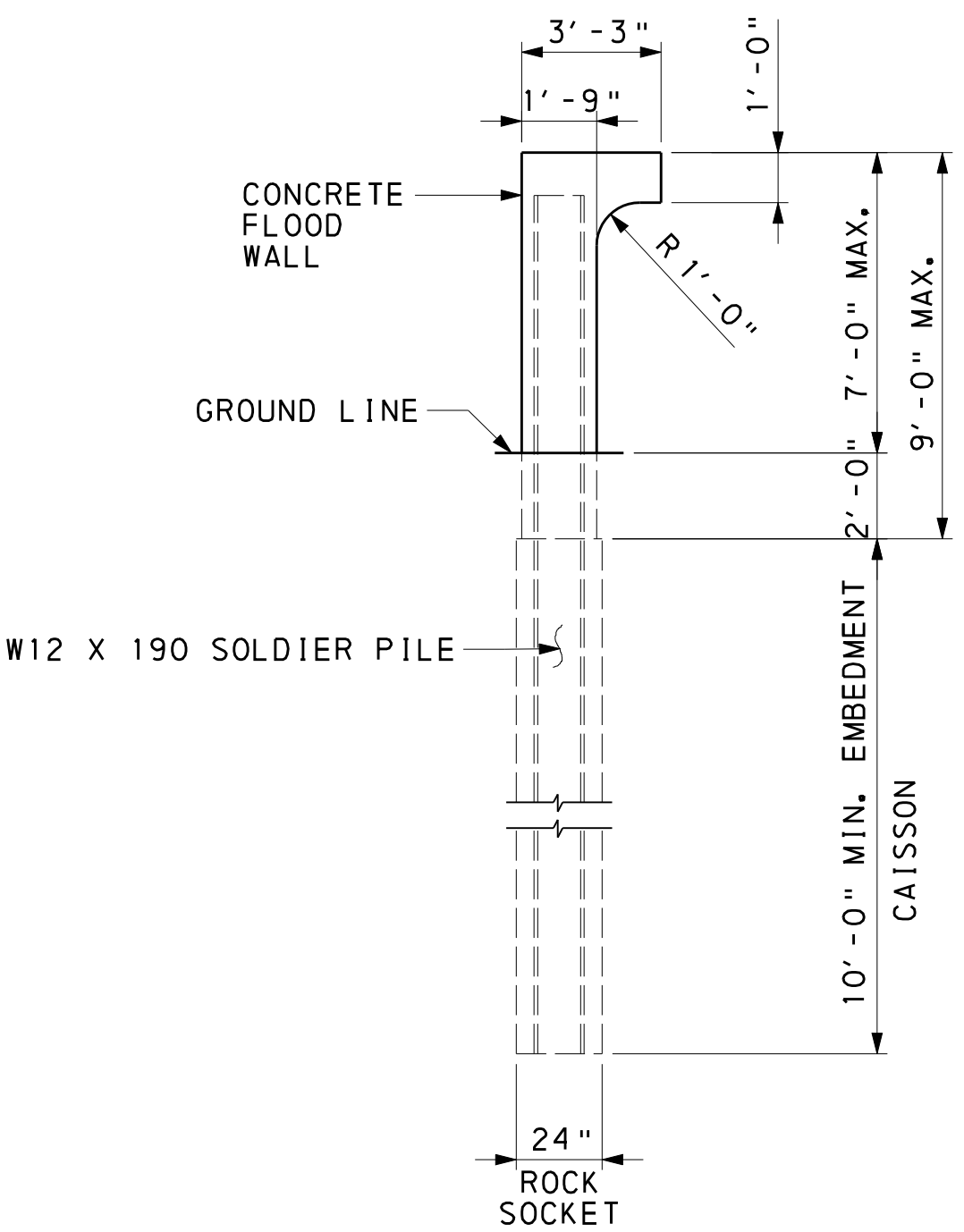


NOTES:  
1. SEE SHEETS 2 & 3 FOR PLAN & ELEVATION OF WALL.

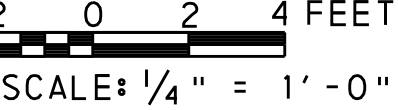
- REFERENCES:
- ARMY CORP OF ENGINEERS COASTAL ENGINEERING MANUAL: EM 1110-2-1100 JUNE 2006
  - ASCE/SEI 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES
  - ACI 318-02 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
  - ORGANIZATION OF AMERICAN STATES CARIBBEAN DISASTER MITIGATION PROJECT: SEISMIC HAZARD MAPS: CAYMAN ISLANDS
  - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 3rd EDITION 2004

INDEX OF DRAWINGS	
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1-3	GENERAL PLAN & ELEVATION
4	GENERAL NOTES & QUANTITIES
5	STAKE-OUT PLAN
6	WALL ELEVATIONS
7-13	WALL ELEVATIONS
14	WALL DETAILS & SECTIONS
15	REINFORCEMENT BAR SCHEDULE

NOTES:  
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CAYMAN ENGINEERING, LTD.  
DATED: JANUARY 2007

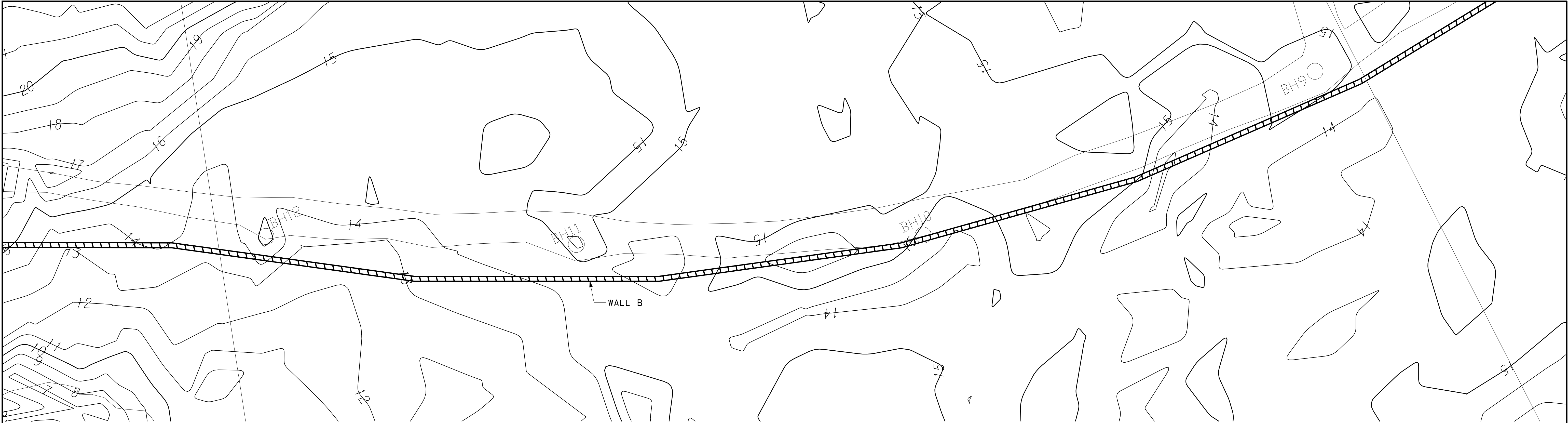


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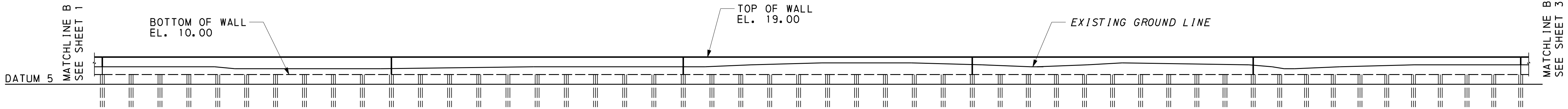
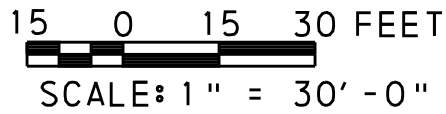


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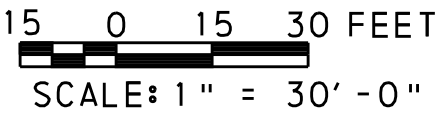
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GENERAL PLAN & ELEVATION		
<div>OR&amp;A Orth - Rodgers &amp; Associates, Inc. TRANSPORTATION ENGINEERS and PLANNERS Great Valley Office 301 Lindenwood Drive, Suite 130 Malvern, PA 19355 USA (610) 407-9700</div>		
SAVANNAH GULLY COASTAL FLOOD WALL RDS/BT/125-EA 62 PRELIMINARY SUBMISSION CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY		
	DATE:	SHEET NUMBER
	PROJECT NUMBER: 2007-169	1 OF 15



PLAN



ELEVATION



NOTES:  
1. SEE SHEET 1 FOR TYPICAL SECTION OF WALL.

NOTES:  
  
WALL LOCATION AND LAYOUT BASED  
UPON SURVEY CONDUCTED BY:  
  
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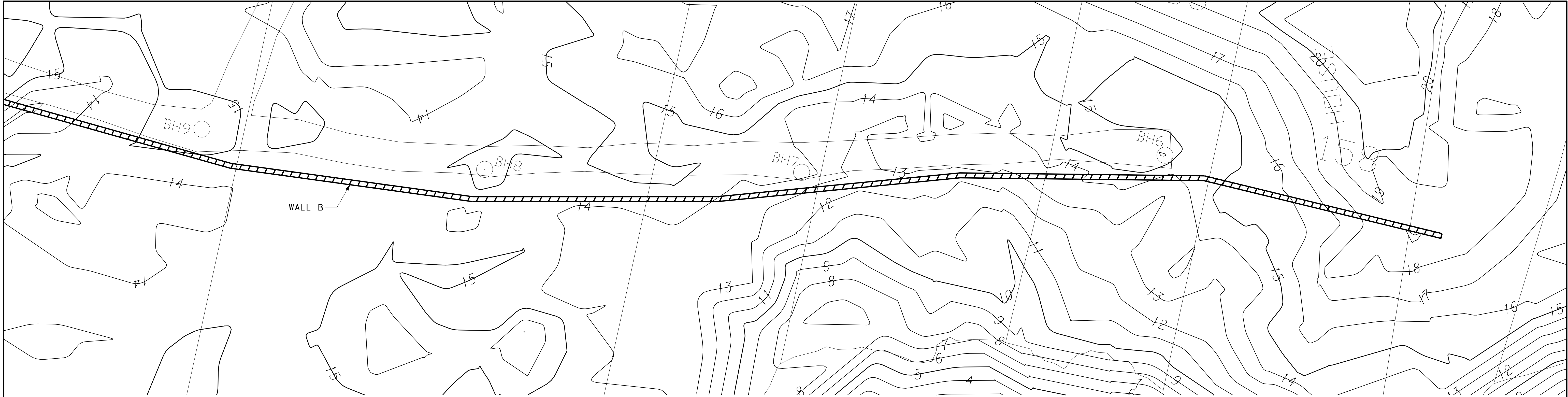
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RDS/BT/125-EA 62  
PRELIMINARY SUBMISSION  
CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY

DATE:	SHEET NUMBER
PROJECT NUMBER: 2007-169	2 OF 15

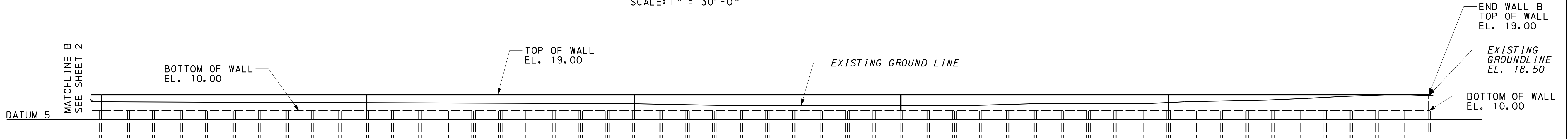
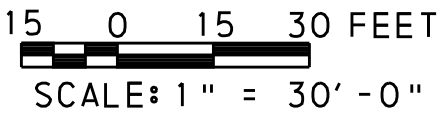
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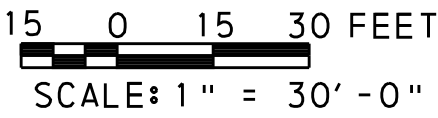
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PLAN



ELEVATION




NOTES:

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CAYMAN ENGINEERING, LTD.  
DATED: JANUARY 2007

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SAVANNAH GULLY COASTAL FLOOD WALL  
RDS/BT/125-EA 62  
PRELIMINARY SUBMISSION  
CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY

DATE:	SHEET NUMBER
PROJECT NUMBER: 2007-169	3 OF 15

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GENERAL NOTES

1. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
2. PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270 GRADE 50 (ASTM A709 GRADE 50) DESIGNATION.
3. DESIGN SPECIFICATIONS:

UNITED STATES ARMY CORPS OF ENGINEERS ENGINEERING MANUAL 1110-2-2502

ENGINEERING AND DESIGN OF RETAINING AND FLOOD WALLS
4. PROVIDE 2-INCH CONCRETE COVER ON REINFORCEMENT BARS EXCEPT AS NOTED.
5. PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF DEFORMED BILLET-STEEL BARS (ASTM-A615) , OR PLAIN AXLE STEEL BARS (ASTM-A617) , OR LOW ALLOY DEFORMED BARS (ASTM-A706). DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS SECTIONAL AREA. DO NOT USE RAIL STEEL (ASTM-A616) WHERE BENDING OR WELDING OR REINFORCING BARS IS INDICATED.
6. USE 5000 PSI CONCRETE IN WALL PANELS, ROCK SOCKETS AND BACKFILL.
7. CHAMFER EXPOSED CONCRETE EDGES 1 INCH BY 1 INCH EXCEPT AS NOTED.
8. PROVIDE FLUSH JOINTS AT ALL EXPANSION AND CONSTRUCTION JOINTS.
9. ALL DIMENSIONS SHOWN ARE HORIZONTAL EXCEPT AS NOTED.
10. PROVIDE MINIMUM LAP AND EMBEDMENT LENGTH OF 30 DIAMETERS OR IN ACCORDANCE WITH AASHTO 1992, WHICH EVER IS GREATER.
11. WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.
12. FOUNDATION NOTES:

A. BLASTING FOR EXCAVATION OF STRUCTURE FOUNDATIONS IS NOT PERMITTED BELOW AN ELEVATION WHERE THE OPERATOR WILL DISTURB THE BEDROCK AT FOUNDATION SUBGRADE ELEVATION. IN ANY CASE, BLASTING IS NOT PERMITTED BELOW ANY ELEVATION AT LEAST 5 FEET ABOVE THE BOTTOM OF WALL ELEVATION.

B. USE PROBE HOLES AT EACH PILE FOR PROBING THE POTENTIAL EXISTENCE OF VOIDS BENEATH THE PROPOSED BOTTOM OF ROCK ELEVATION. SEE SPECIFICATIONS.

C. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES. DIRECT ALL SURFACE RUNOFF AWAY FROM THE EXCAVATION USING CURBING OR A BARRIER ALONG THE TOP OF THE SLOPE. IF REQUIRED, COVER THE EXCAVATED SLOPES WITH PLASTIC TO PROTECT AGAINST INFILTRATION.

D. BOTTOM OF ROCK SOCKETS MAY BE ORDERED BY THE ENGINEER TO BE AT ANY ELEVATION TO PROVIDE A PROPER FOUNDATION.

E. IF VOIDS OR SOIL LAYERS ARE ENCOUNTERED, EXCLUDE THE DEPTH OF THE VOID OR SOIL LAYER IN THE MEASUREMENT OF THE REQUIRED DEPTH OF ROCK SOCKET AS DIRECTED BY THE ENGINEER. PROVIDE CASING, OR LIMITED MOBILITY GROUTING THROUGH ALL VOIDS ENCOUNTERED, AS DIRECTED BY THE ENGINEER.

TABULATION OF ESTIMATED QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNIT	QTY
1001-01	CONCRETE, 5000 PSI	CY	1200
1002-01	REINFORCEMENT BARS	LB	239913
1105-01	STEEL HP PILES, W12 X 190	LF	2527
1006-01	24" DIAMETER DRILLED CAISSONS, ROCK SOCKET	LF	1330
0204-01	EXCAVATION	CY	1200
1001-02	CONCRETE BACKFILL, 5000 PSI	CY	600
1007-02	LIMITED MOBILITY GROUTING, DRILLING AND INSTALLATION OF RISER	LF	4200
1007-03	LIMITED MOBILITY GROUTING, SOIL-CEMENT GROUT	CY	20400

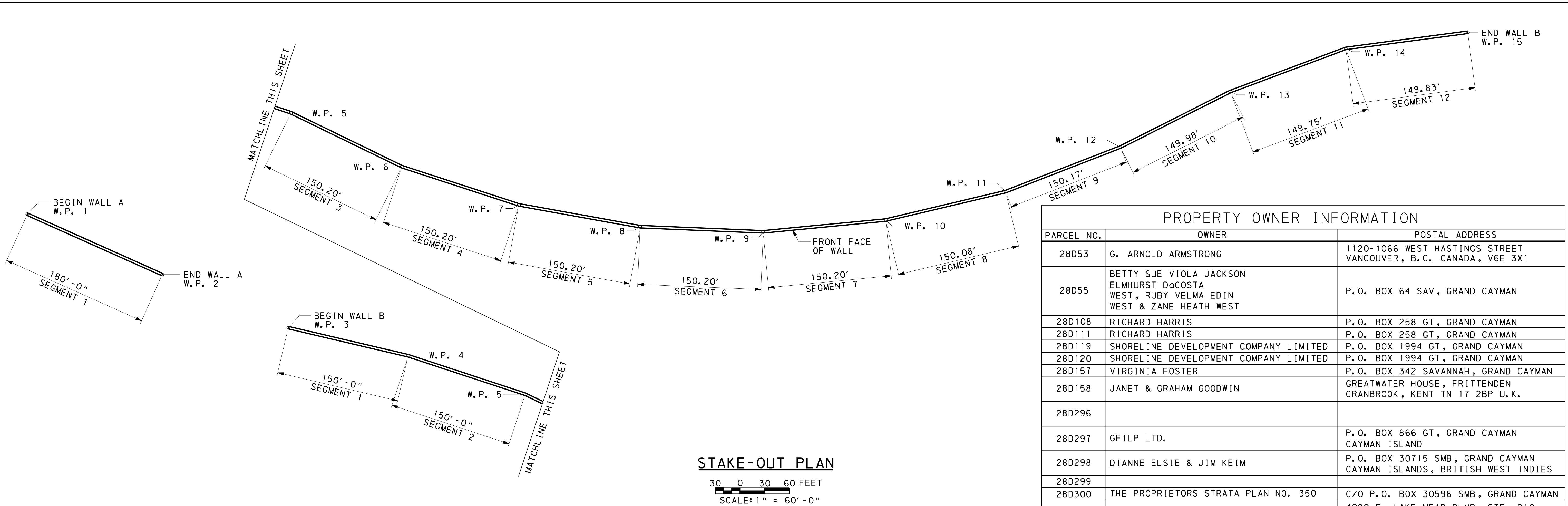
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NO.	REVISION	DATE
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<div><div><div>OR&amp;A</div><div>Great Valley Office 301 Lindenwood Drive, Suite 130 Malvern, PA 19355 USA (610)407-9700</div></div><div><div>Orth - Rodgers &amp; Associates, Inc.</div><div>TRANSPORTATION ENGINEERS and PLANNERS</div></div></div>		
<div>SAVANNAH GULLY COASTAL FLOOD WALL</div> <div>RDS/BT/125-EA 62</div> <div>PRELIMINARY SUBMISSION</div> <div>CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY</div>		
DATE:		SHEET NUMBER
PROJECT NUMBER: 2007-169		4 OF 15

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PROPERTY OWNER INFORMATION		
PARCEL NO.	OWNER	POSTAL ADDRESS
28D53	G. ARNOLD ARMSTRONG	1120-1066 WEST HASTINGS STREET VANCOUVER, B.C. CANADA, V6E 3X1
28D55	BETTY SUE VIOLA JACKSON ELMHURST DaCOSTA WEST, RUBY VELMA EDIN WEST & ZANE HEATH WEST	P.O. BOX 64 SAV, GRAND CAYMAN
28D108	RICHARD HARRIS	P.O. BOX 258 GT, GRAND CAYMAN
28D111	RICHARD HARRIS	P.O. BOX 258 GT, GRAND CAYMAN
28D119	SHORELINE DEVELOPMENT COMPANY LIMITED	P.O. BOX 1994 GT, GRAND CAYMAN
28D120	SHORELINE DEVELOPMENT COMPANY LIMITED	P.O. BOX 1994 GT, GRAND CAYMAN
28D157	VIRGINIA FOSTER	P.O. BOX 342 SAVANNAH, GRAND CAYMAN
28D158	JANET & GRAHAM GOODWIN	GREATWATER HOUSE, FRITTENDEN CRANBROOK, KENT TN 17 2BP U.K.
28D296		
28D297	GFILP LTD.	P.O. BOX 866 GT, GRAND CAYMAN CAYMAN ISLAND
28D298	DIANNE ELSIE & JIM KEIM	P.O. BOX 30715 SMB, GRAND CAYMAN CAYMAN ISLANDS, BRITISH WEST INDIES
28D299		
28D300	THE PROPRIETORS STRATA PLAN NO. 350	C/O P.O. BOX 30596 SMB, GRAND CAYMAN
28D301	MARK AKINS & NATALIE WASHKO	4080 E. LAKE MEAD BLVD. STE. 210 LAS VEGAS, NV 89115 U.S.A.
28D302	CAMERON HALL	C/O P.O. BOX 481 GT, GRAND CAYMAN CAYMAN ISLAND



WORK POINT DATA		
COORDINATES		
W. P.	NORTHING	EASTING
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2	6989305.64	1535747.01
3	6989222.35	1535891.23
4	6989170.00	1536031.94
5	6989105.61	1536167.53
6	6989023.55	1536293.34
7	6988959.54	1536428.99
8	6988914.65	1536572.12
9	6988889.75	1536720.04
10	6988885.28	1536869.97
11	6988901.34	1537019.11
12	6988937.62	1537164.66
13	6988987.92	1537305.97
14	6989022.47	1537451.94
15	6989023.32	1537601.94

NOTES:

PROPERTY LINES AND PROPERTY OWNERS BASED  
UPON SURVEY CONDUCTED BY:

CAYMAN ENGINEERING, LTD.  
DATED: JANUARY 2007

WALL LOCATION AND LAYOUT BASED  
UPON SURVEY CONDUCTED BY:

CAYMAN ENGINEERING, LTD.  
DATED: JANUARY 2007

NO.	REVISION	DATE

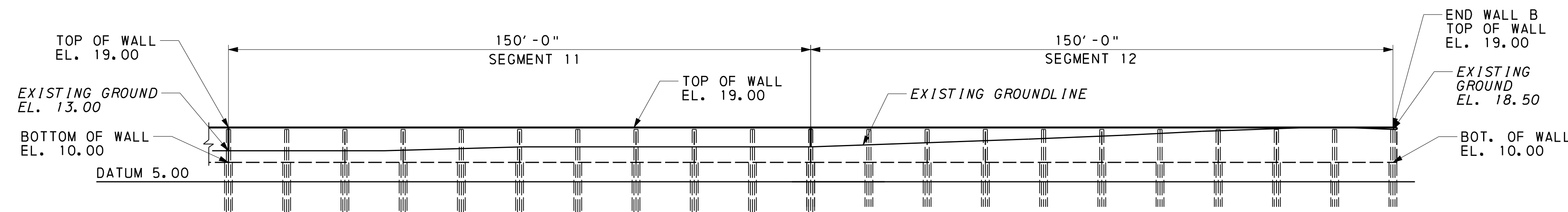
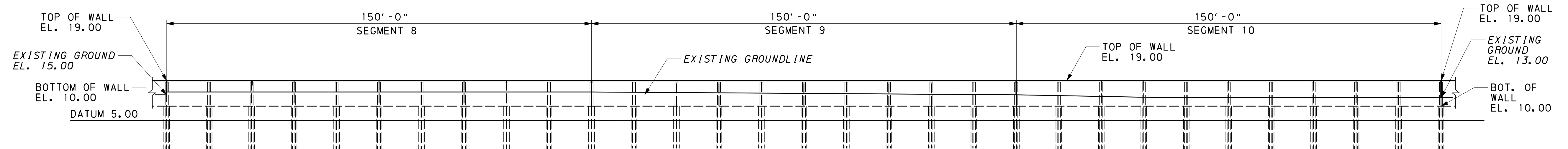
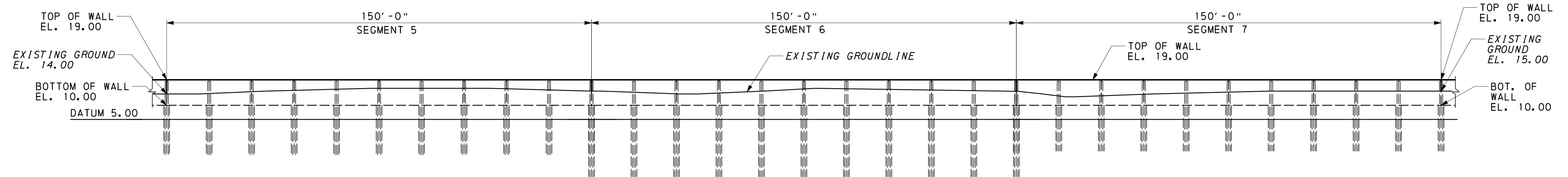
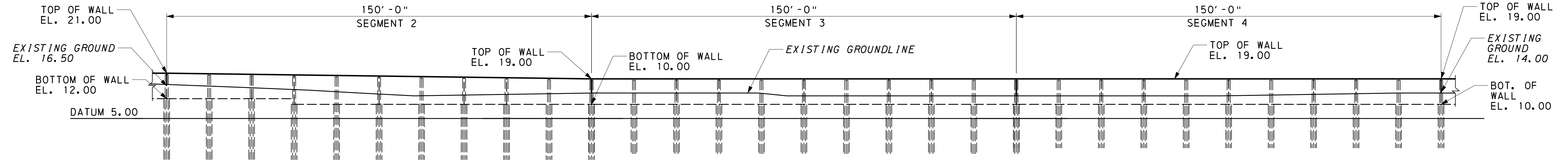
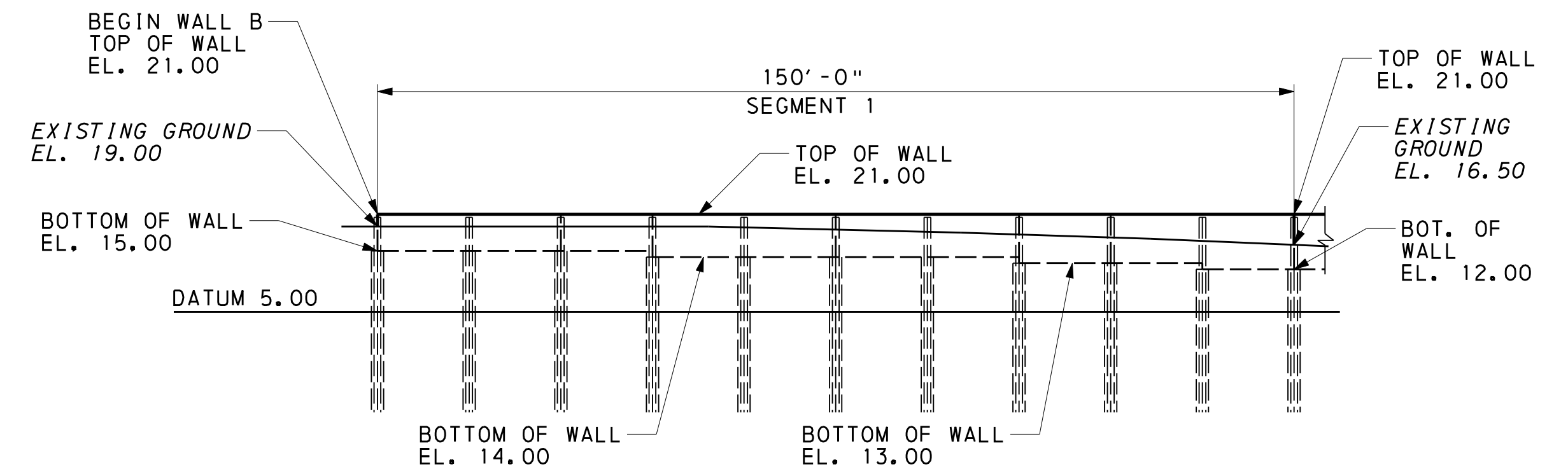
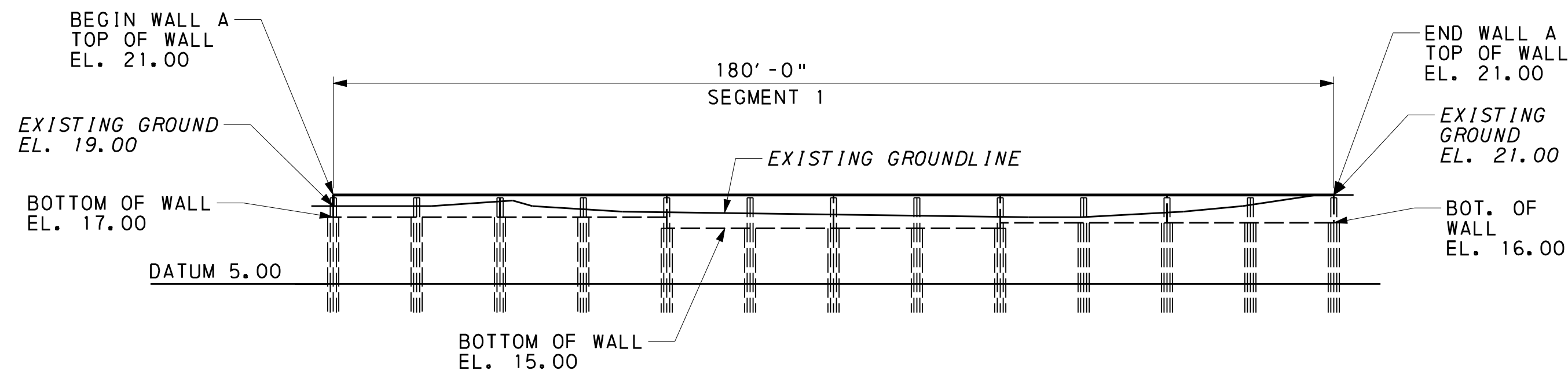
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<b>OR&amp;A</b> Orth - Rodgers & Associates, Inc. TRANSPORTATION ENGINEERS and PLANNERS <small>Great Valley Offices 301 Lindenwood Drive, Suite 130 Malvern, PA 19355 USA (610) 407-9700</small>		
SAVANNAH GULLY COASTAL FLOOD WALL RDS/BT/125-EA 62 PRELIMINARY SUBMISSION CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY		
	DATE: PROJECT NUMBER: 2007-169	SHEET NUMBER 5 OF 15

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WALL ELEVATIONS  
10 0 10 20 FEET  
SCALE: 1" = 20'-0"

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NO.	REVISION	DATE

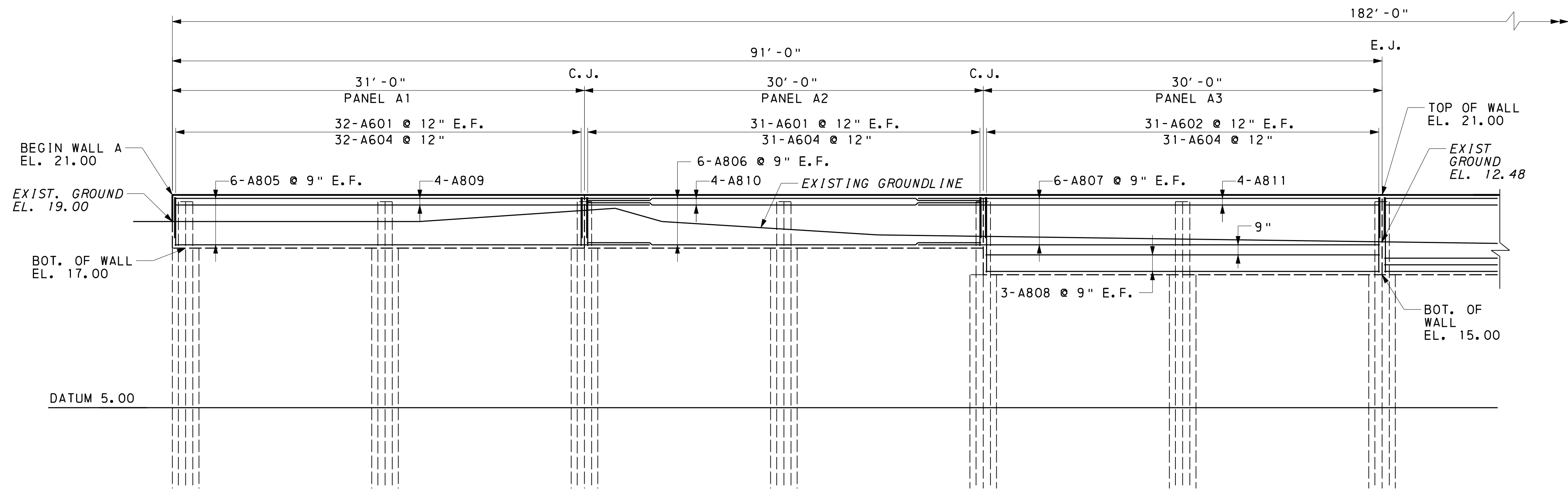
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TRANSPORTATION ENGINEERS and PLANNERS  
Great Valley Offices  
301 Lindenwood Drive, Suite 130 Malvern, PA 19355 USA (610) 407-9700

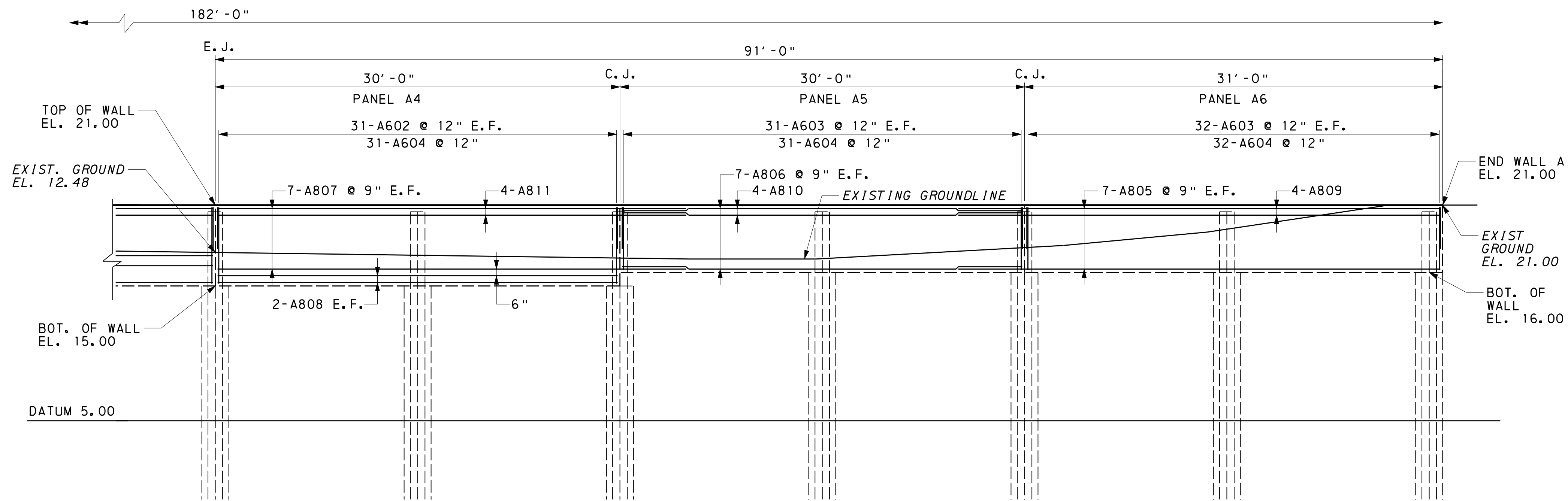
SAVANNAH GULLY COASTAL FLOOD WALL  
RDS/BT/125-EA 62  
PRELIMINARY SUBMISSION  
CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY

DATE:	SHEET NUMBER
PROJECT NUMBER: 2007-169	6 OF 15

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**WALL ELEVATION**  
 2 0 2 4 6 FEET  
 SCALE: 3/16" = 1'-0"



**WALL ELEVATION**  
 2 0 2 4 6 FEET  
 SCALE: 3/16" = 1'-0"

**NOTES**


1. FOR GENERAL NOTES SEE SHEET 4.
2. FOR WALL DETAILS SEE SHEET 14.
4. FOR REINFORCEMENT SCHEDULE SEE SHEET 15.

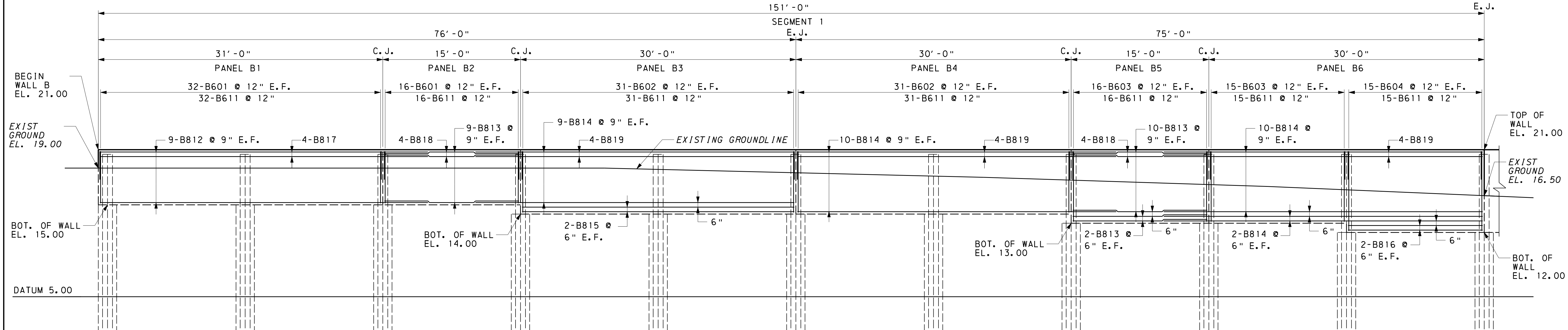
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 E. J. DENOTES EXPANSION JOINT  
 B. O. W. DENOTES BOTTOM OF WALL  
 F. F. DENOTES FRONT FACE  
 R. F. DENOTES REAR FACE  
 O. H. DENOTES OPPOSITE HAND

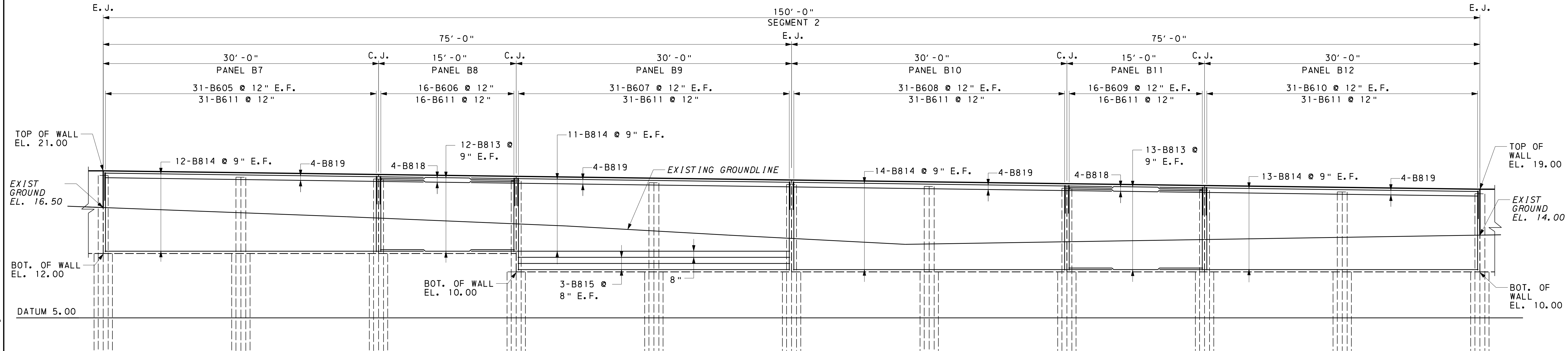
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WALL ELEVATIONS		
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	DATE:	SHEET NUMBER
	PROJECT NUMBER: 2007-169	7 OF 15



**WALL ELEVATION**  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"



**WALL ELEVATION**  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"

- NOTES**
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  3. FOR REINFORCEMENT SCHEDULE SEE SHEET 15.

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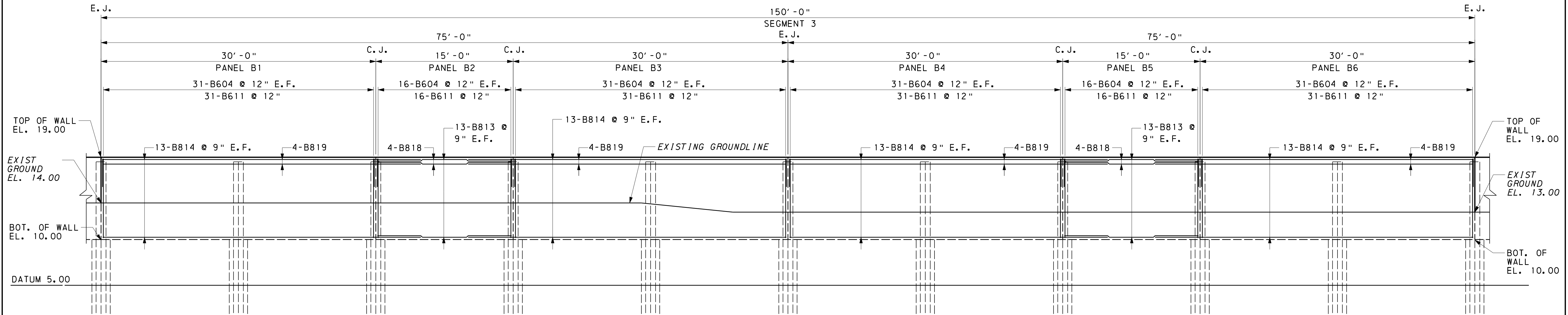
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PROJECT NUMBER: 2007-169 8 OF 15

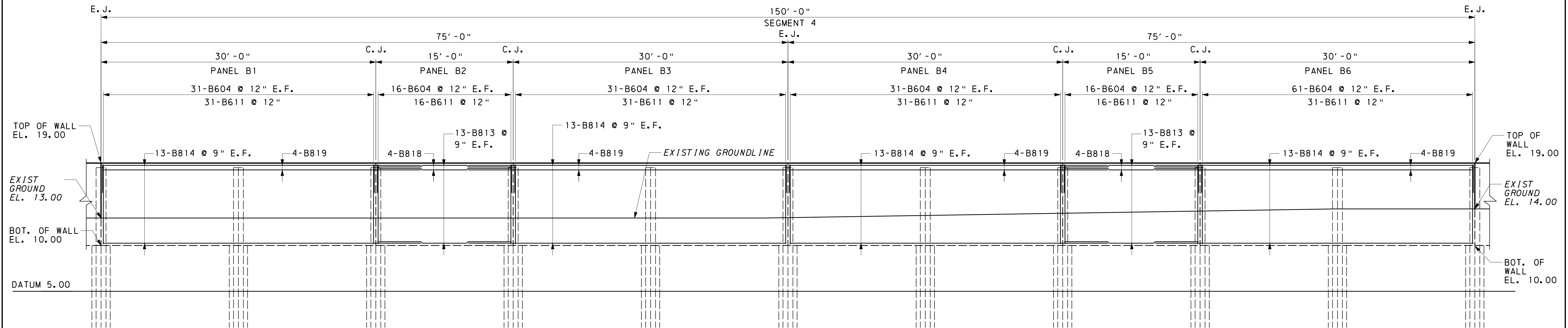
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WALL ELEVATION  
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SCALE: 3/16" = 1'-0"



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"

NOTES

1. FOR GENERAL NOTES SEE SHEET 4.
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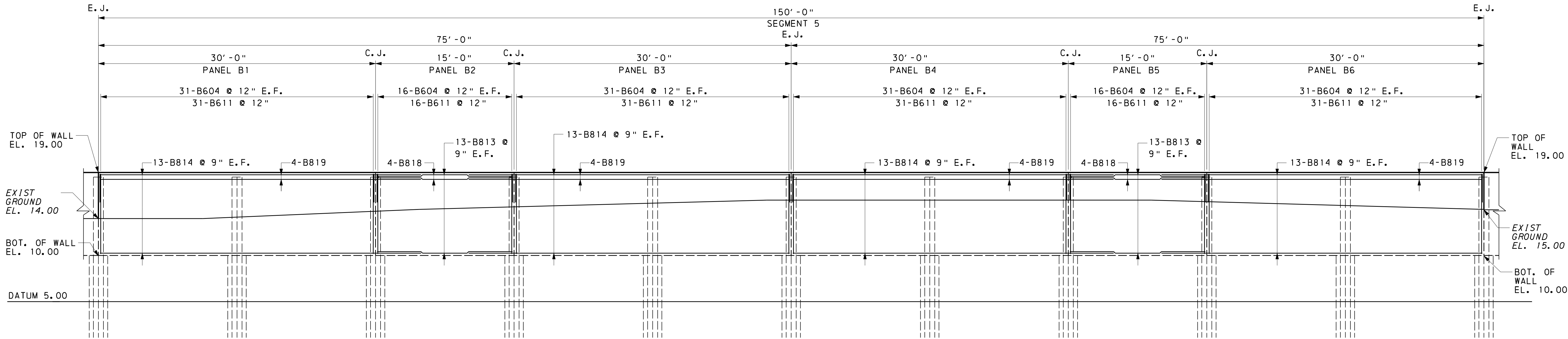
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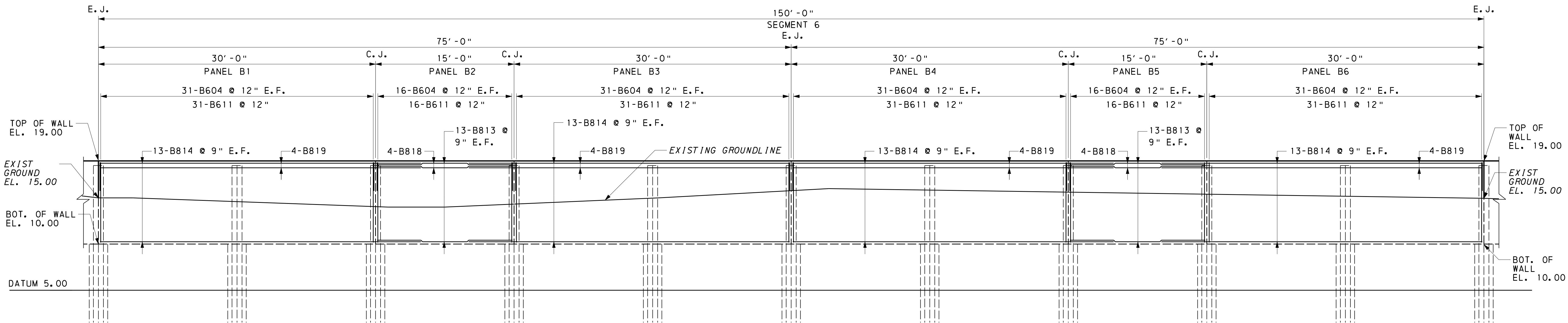
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	DATE: PROJECT NUMBER: 2007-169	SHEET NUMBER 9 OF 15



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"

NOTES

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WALL ELEVATIONS

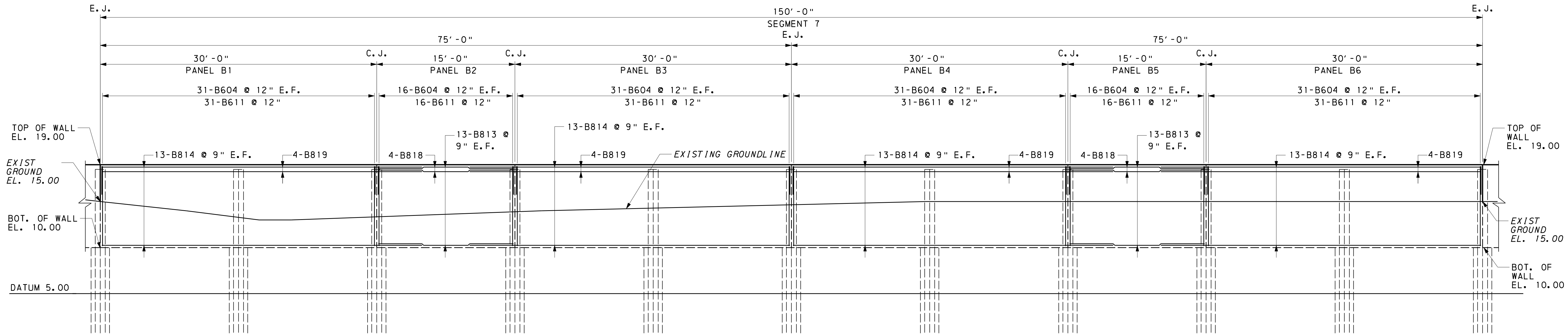
**OR&A**

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TRANSPORTATION ENGINEERS and PLANNERS

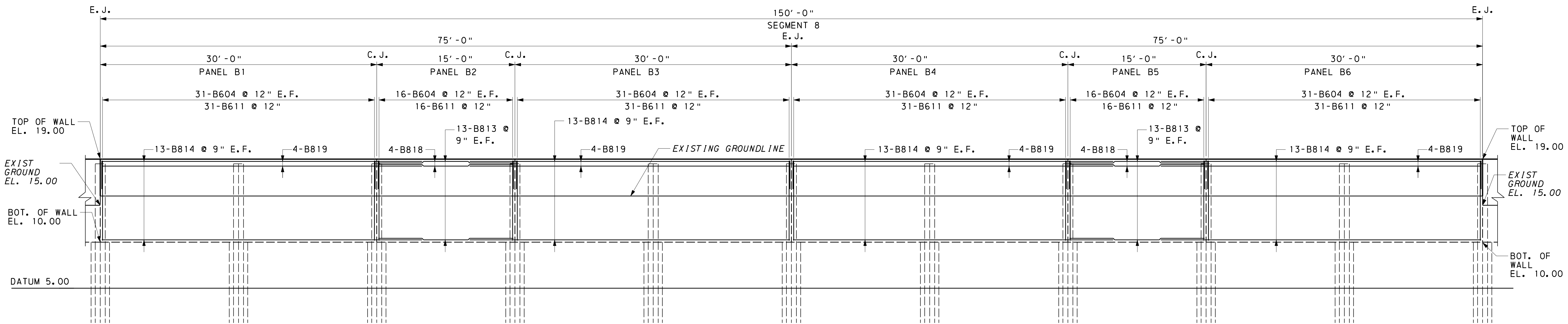
Great Valley Office  
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SAVANNAH GULLY COASTAL FLOOD WALL  
RDS/BT/125-EA 62  
PRELIMINARY SUBMISSION  
CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY

DATE:	SHEET NUMBER
PROJECT NUMBER: 2007-169	10 OF 15



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"

NOTES

1. FOR GENERAL NOTES SEE SHEET 4.
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LEGEND


- C. J. DENOTES CONSTRUCTION JOINT
- E. J. DENOTES EXPANSION JOINT
- B. O. W. DENOTES BOTTOM OF WALL
- F. F. DENOTES FRONT FACE
- R. F. DENOTES REAR FACE
- O. H. DENOTES OPPOSITE HAND

FOR REVIEW  
NOT FOR CONSTRUCTION

90% PLANS SUBMISSION

NO.	REVISION	DATE

WALL ELEVATIONS

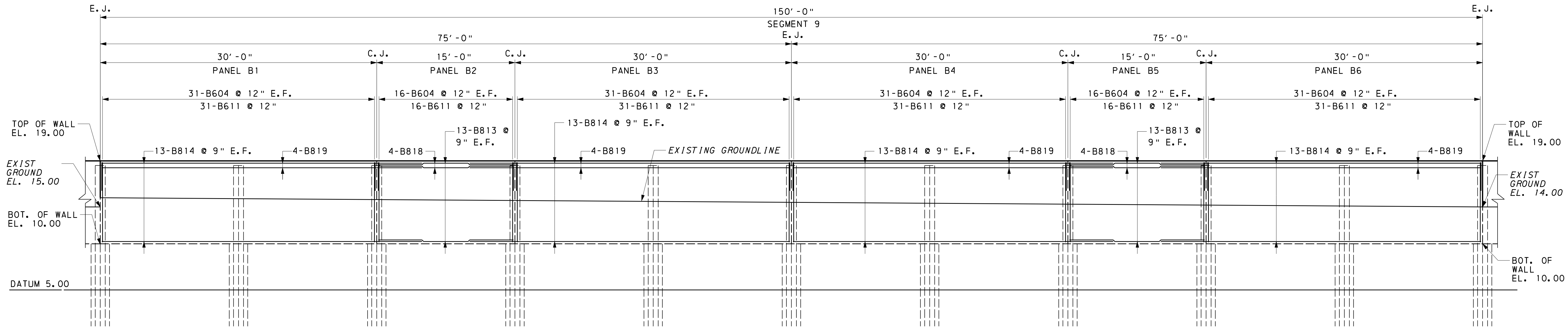


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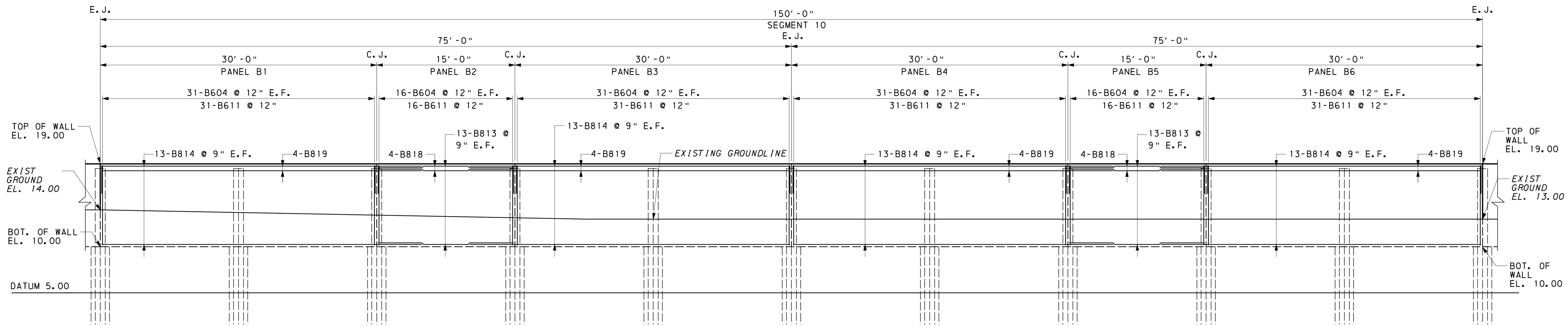
SAVANNAH GULLY COASTAL FLOOD WALL  
RDS/BT/125-EA 62  
PRELIMINARY SUBMISSION  
CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY

DATE: PROJECT NUMBER: 2007-169

SHEET NUMBER  
11 OF 15



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"

NOTES

1. FOR GENERAL NOTES SEE SHEET 4.
2. FOR WALL DETAILS SEE SHEET 14.
3. FOR REINFORCEMENT SCHEDULE SEE SHEET 15.

LEGEND

- C. J. DENOTES CONSTRUCTION JOINT  
E. J. DENOTES EXPANSION JOINT  
B. O. W. DENOTES BOTTOM OF WALL  
F. F. DENOTES FRONT FACE  
R. F. DENOTES REAR FACE  
O. H. DENOTES OPPOSITE HAND

FOR REVIEW  
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90% PLANS SUBMISSION

NO.	REVISION	DATE

WALL ELEVATIONS

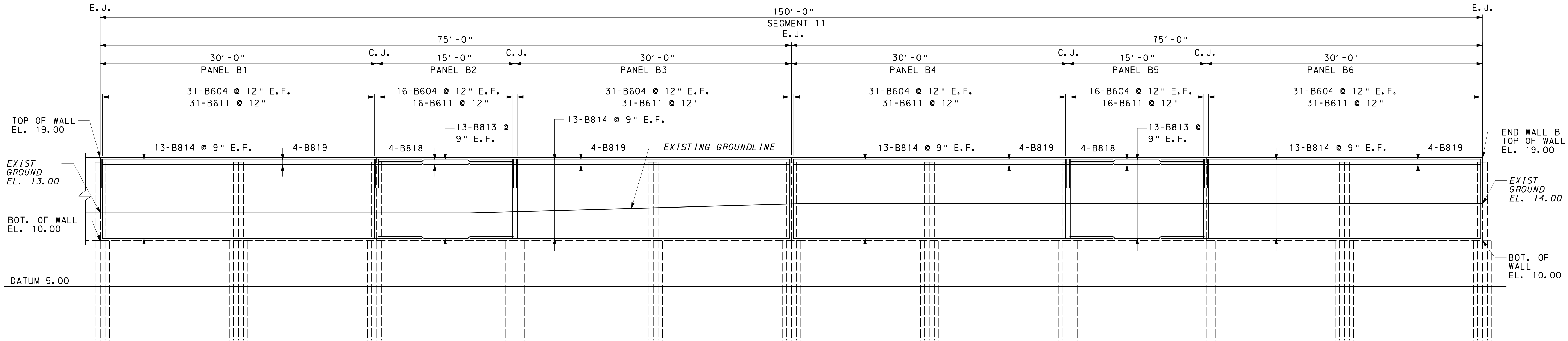
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TRANSPORTATION ENGINEERS and PLANNERS

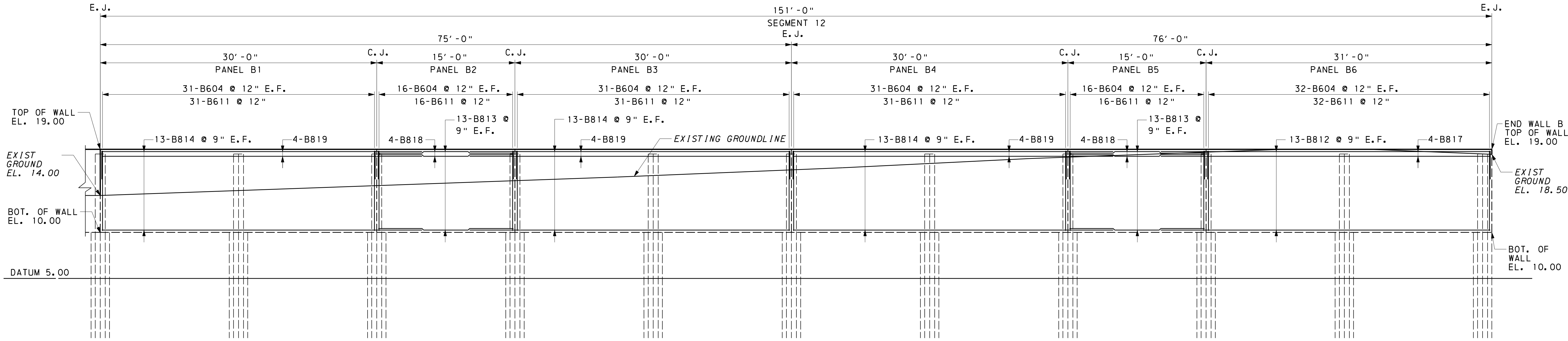
SAVANNAH GULLY COASTAL FLOOD WALL  
RDS/BT/125-EA 62  
PRELIMINARY SUBMISSION  
CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY

DATE: PROJECT NUMBER: 2007-169

SHEET NUMBER  
12 OF 15



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"



WALL ELEVATION  
2 0 2 4 6 FEET  
SCALE: 3/16" = 1'-0"

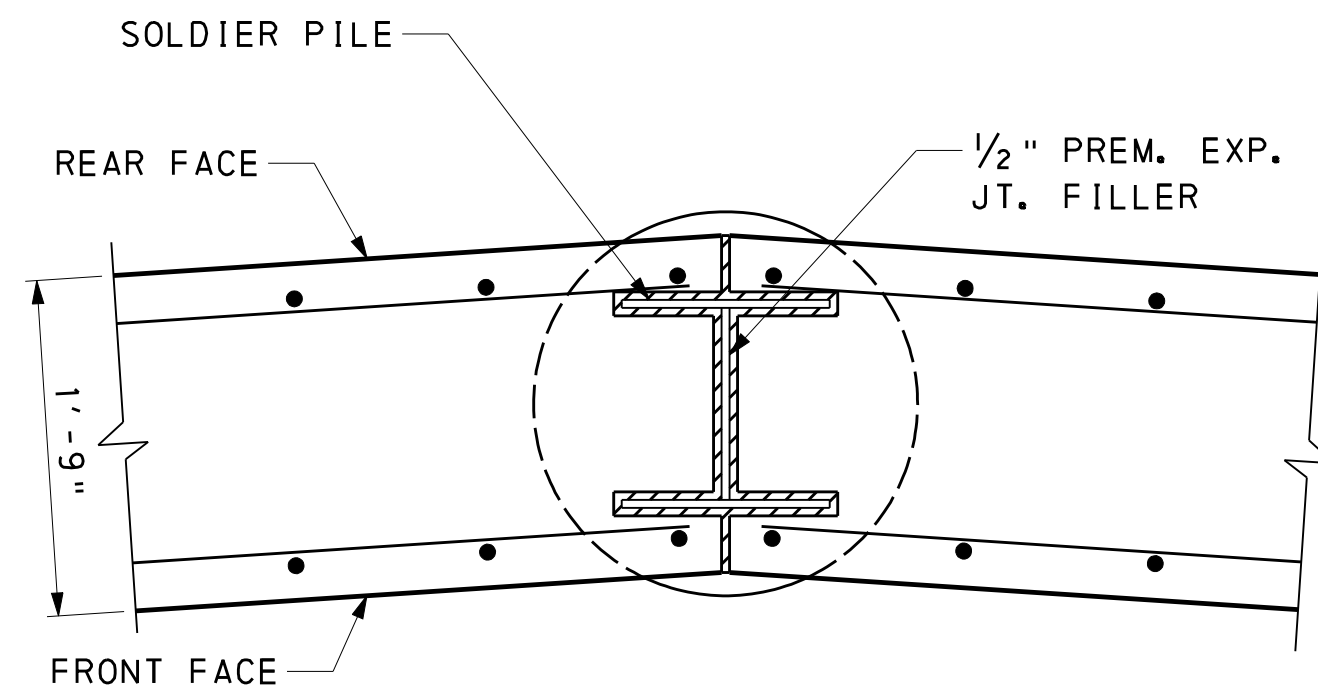
- NOTES
- 1. FOR GENERAL NOTES SEE SHEET 4.
  - 2. FOR WALL DETAILS SEE SHEET 14.
  - 3. FOR REINFORCEMENT SCHEDULE SEE SHEET 15.

- LEGEND
- C.J. DENOTES CONSTRUCTION JOINT
  - E.J. DENOTES EXPANSION JOINT
  - B.O.W. DENOTES BOTTOM OF WALL
  - F.F. DENOTES FRONT FACE
  - R.F. DENOTES REAR FACE
  - O.H. DENOTES OPPOSITE HAND

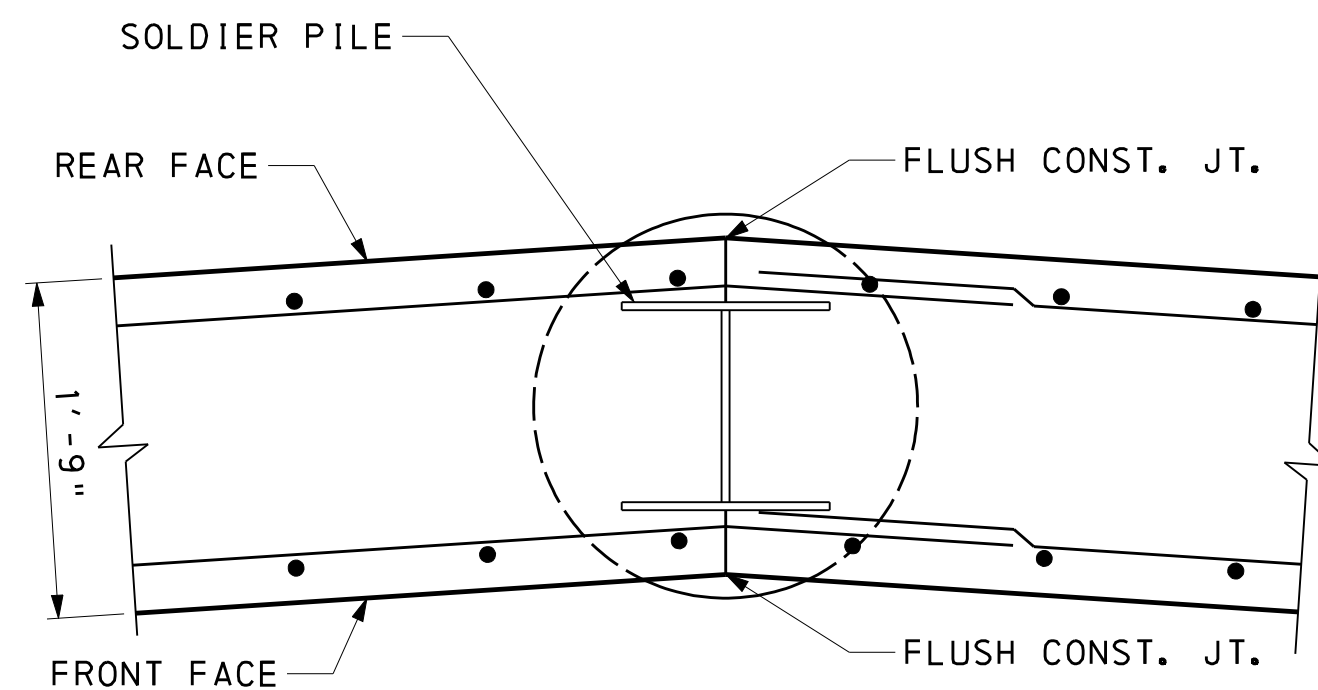
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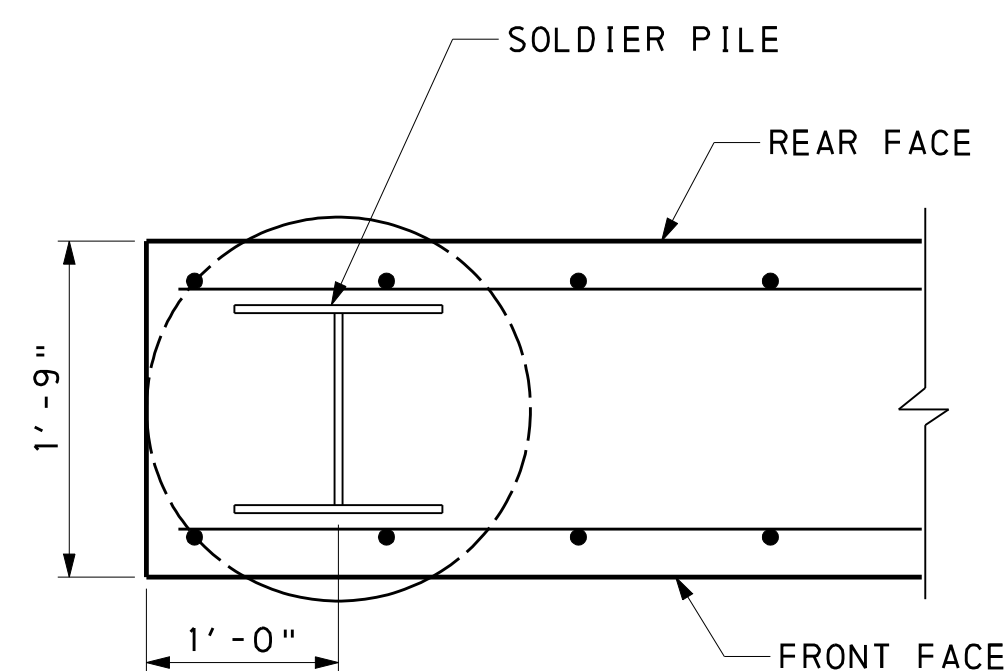
NO.	REVISION	DATE
WALL ELEVATIONS		
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	DATE: PROJECT NUMBER: 2007-169	SHEET NUMBER 13 OF 15



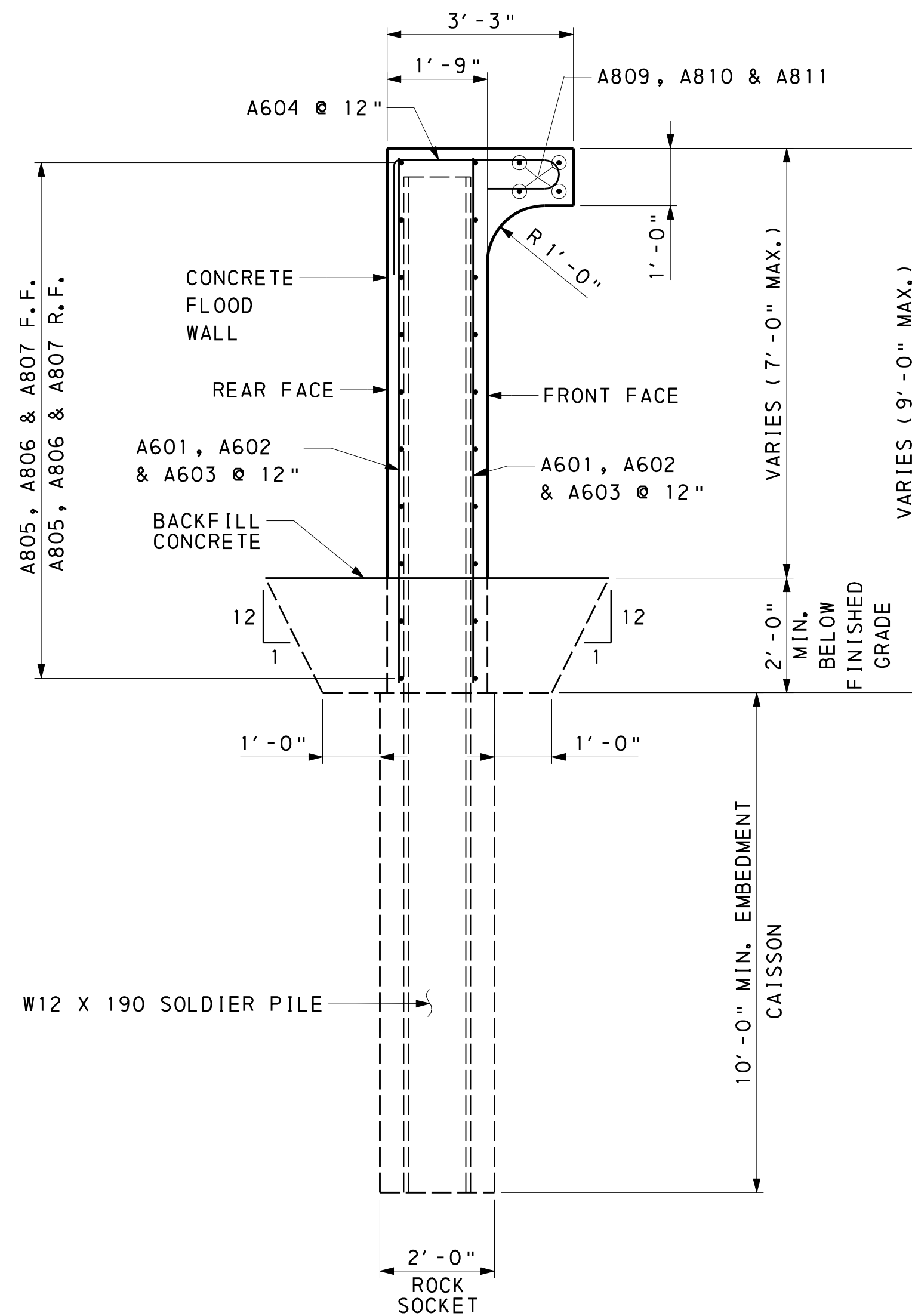
**EXPANSION JOINT**  
 6 0 6 12 INCHES  
 SCALE: 1" = 1'-0"



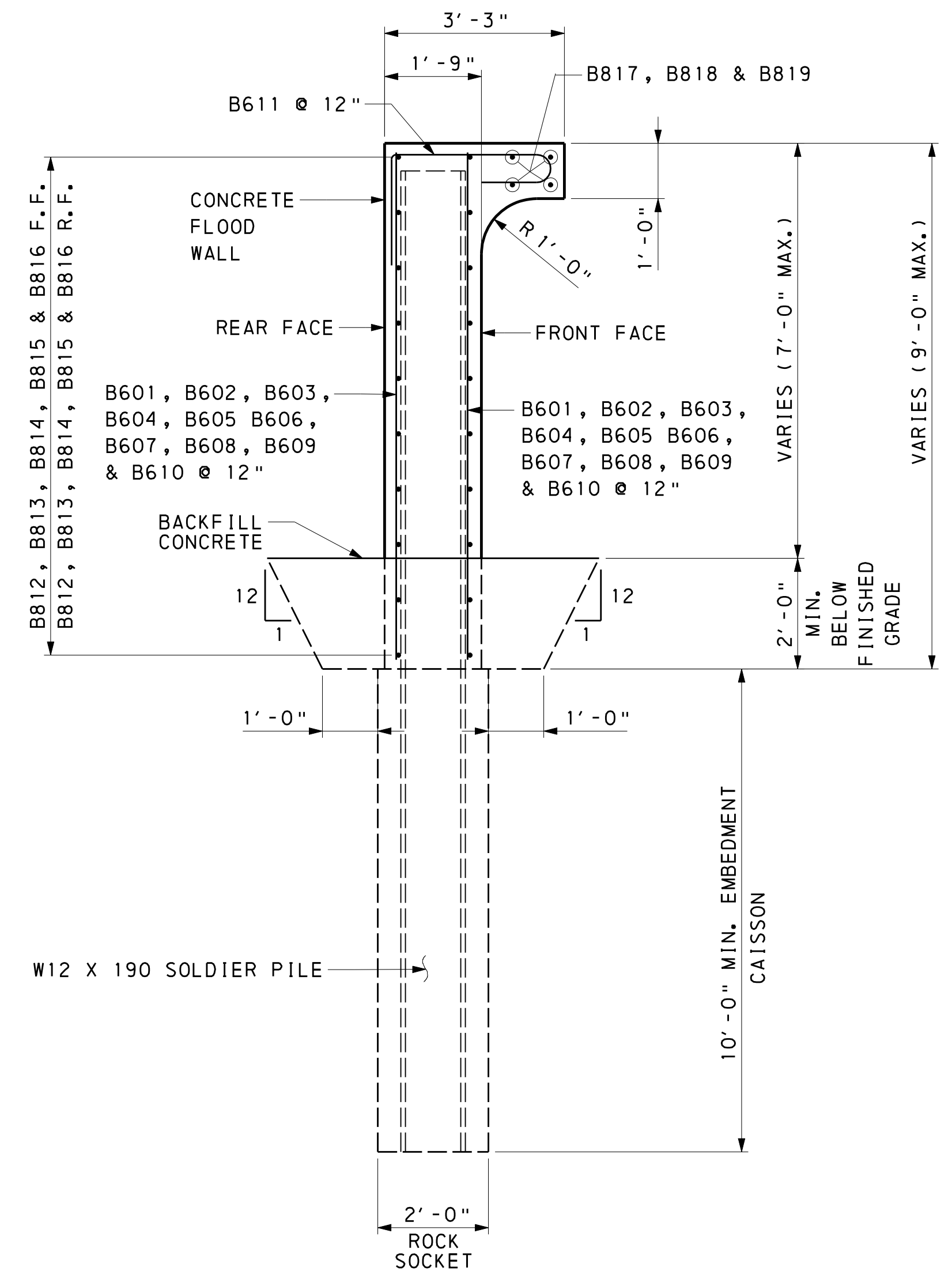
**CONSTRUCTION JOINT**  
 6 0 6 12 INCHES  
 SCALE: 1" = 1'-0"



**WALL ENDS**  
 6 0 6 12 INCHES  
 SCALE: 1" = 1'-0"



**TYPICAL WALL A SECTION**  
 1 0 1 2 FEET  
 SCALE: 1/2" = 1'-0"



**TYPICAL WALL B SECTION**  
 1 0 1 2 FEET  
 SCALE: 1/2" = 1'-0"

**NOTES**

1. FOR GENERAL NOTES SEE SHEET 4.
2. FOR WALL ELEVATIONS SEE SHEETS 6 THRU 13.
3. FOR REINFORCEMENT SCHEDULE SEE SHEET 15.

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NO.	REVISION	DATE
WALL DETAILS & SECTIONS		
<b>OR&amp;A</b> Orth - Rodgers & Associates, Inc. TRANSPORTATION ENGINEERS and PLANNERS <small>Great Valley Office            301 Lindenwood Drive, Suite 130 Malvern, PA 19355 USA (610) 407-9700</small>		
SAVANNAH GULLY COASTAL FLOOD WALL RDS/BT/125-EA 62 PRELIMINARY SUBMISSION CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY		
	DATE: PROJECT NUMBER: 2007-169	SHEET NUMBER 14 OF 15

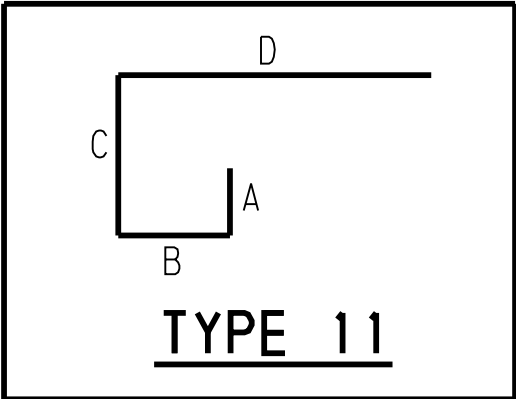


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REINFORCEMENT BAR SCHEDULE - WALL ' A '										
MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	REMARKS	
A601	6	3' - 8 "	126	STR						
A602	6	5' - 8 "	124	STR						
A603	6	4' - 8 "	126	STR						
A604	6	6' - 5 "	188	11	1' - 0 "	6 "	2' - 11 "	2' - 0 "		
A805	8	35' - 9 "	26	STR						
A806	8	29' - 8 "	26	STR						
A807	8	34' - 9 "	26	STR						
A808	8	29' - 8 "	10	STR						
A809	8	35' - 9 "	8	STR						
A810	8	29' - 8 "	8	STR						
A811	8	34' - 9 "	8	STR						
REINFORCEMENT BAR SCHEDULE - WALL ' B '										
MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	REMARKS	
B601	6	5' - 8 "	96	STR						
B602	6	6' - 8 "	124	STR						
B603	6	7' - 8 "	62	STR						
B604	6	8' - 8 "	3150	STR						
B605	6	8' - 8 " TO 8' - 3 "	62	STR					VAR. 2 EA. BY 3/16 "	
B606	6	8' - 3 " TO 8' - 1 "	32	STR					VAR. 2 EA. BY 1/8 "	
B607	6	10' - 1 " TO 9' - 8 "	62	STR					VAR. 2 EA. BY 3/16 "	
B608	6	9' - 8 " TO 9' - 3 "	62	STR					VAR. 2 EA. BY 3/16 "	
B609	6	9' - 3 " TO 9' - 1 "	32	STR					VAR. 2 EA. BY 1/8 "	
B610	6	9' - 1 " TO 8' - 8 "	62	STR					VAR. 2 EA. BY 3/16 "	
B611	6	6' - 5 "	1872	11	1' - 0 "	6 "	2' - 11 "	2' - 0 "		
B812	8	35' - 9 "	44	STR						
B813	8	14' - 8 "	612	STR						
B814	8	34' - 9 "	1176	STR						
B815	8	29' - 8 "	10	STR						
B816	8	14' - 8 "	4	STR						
B817	8	35' - 9 "	8	STR						
B818	8	14' - 8 "	72	STR						
B819	8	34' - 9 "	184	STR						

• ALL REINFORCEMENT BARS ARE GRADE 60.

BAR TYPES



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NOT FOR CONSTRUCTION

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DESIGN:	CHECK:	DRAWN: CMM	CHECK:	DATE:
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NO.	REVISION	DATE
REINFORCEMENT BAR SCHEDULE		
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SAVANNAH GULLY COASTAL FLOOD WALL RDS/BT/125-EA 62 PRELIMINARY SUBMISSION CAYMAN ISLANDS GOVERNMENT NATIONAL ROADS AUTHORITY		
	DATE:	SHEET NUMBER
	PROJECT NUMBER: 2007-169	15 OF 15