

BALTIMORE COUNTY PUBLIC SCHOOLS

S. Dallas Dance, Ph.D., Superintendent

6901 Charles Street Towson, MD • 21204-3711

ADDENDUM NUMBER __5__

DATE: December 14, 2016
BID NAME: REPLACEMENT OF VICTORY VILLA ELEMENTARY SCHOOL
BID NUMBER: ARA-209-17
DUE DATE: **DECEMBER 21, 2016**
DUE TIME: **2:00 P.M.**

TOTAL PAGES: 55 (to include 52 sketches)

The following revisions and responses to questions are made to the original bid document. This addendum forms a part of the Contract Documents and modifies the Original Solicitation Documents accordingly and as noted below. Acknowledge receipt of this Addendum in the space provided on the "Addenda" form within the Form of Proposal.

SPECIFICATIONS

Section 00400 FORM OF PROPOSAL

REVISE: On Page 10, Under line item "Addendum #4 – Date Issued", Insert "Addendum #5 – Date Issued" for acknowledgement of receipt of Addendum #5.

DRAWINGS

SHEET C1.02

ADJUST: Retaining Wall location per attached sketch

SHEET C1.03

ADJUST: Retaining wall location per attached sketch

SHEET C1.04

ADJUST: Retaining wall location per attached sketch

SHEET C1.05

MODIFY: Layout of SWM facilities 1 & 2 per attached sketch

SHEET C3.01

AMEND: Storm drain profile per attached sketches

SHEET C3.02

AMEND: Structure table per attached sketches.

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SHEET C4.22

REVISE: Per attached sketches

SHEET ESC1.01

ADD: Check dams per attached sketches

SHEET ESC1.02

ADD: Check dams per attached sketches

SHEET SWM 2.01

CHANGE: Detail 2 from 84" to 72" diameter base.

SHEET SWM 2.04

ADJUST: SWM facility #1 pipes and manhole sizes and quantities

SHEET SWM2.05

ADJUST: SWM facility #2 pipes and manhole sizes and quantities

SHEET A1.03

REVISE: Per attached sketch A1.03 1 of 1

SHEET A1.06

REVISE: Per attached sketches A1.06-1 of 2 and A1.06-2 of 2

SHEET A1.13

REVISE: Per attached sketch A1.13-1 of 1

SHEET A4.07.4

REVISE: Per attached sketch A4.07.4-1 of 1

SHEET A4.08.1

REVISE: Per attached sketch A4.08.1-1 of 1

SHEET A5.04

REVISE: Per attached sketch A5.04-1 of 1

SHEET A6.04

REVISE: Per attached sketch A6.04-1 of 1

SHEET S3.03

a. REVISE: Per attached Sketch S3.03-1 of 1

SHEET P1.02

REVISE: Per the attached Sketch P1.02-1 of 1

SHEET P1.03

REVISE: Per the attached Sketch P1.03-1 of 1

SHEET P1.05

REVISE: Per the attached Sketch P1.05-1 of 1

SHEET E5.07

REVISE: Per the attached Sketches E5.07-1 of 2 and E5.07-2 of 2

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SHEET E6.04

b. REVISE: Per attached Sketch SK-E6.04-1 of 1

SHEET EP1.06

c. REVISE: Per attached Sketch SK-EP1.06-1 of 1

GENERAL

Responses to solicitations received prior to the issuance of this addendum are as follows:

1) **INQUIRY:** Detail #8/A4.06 1 indicates the units are to be mobile on castors, however this is shown along the outside wall in most of the general classrooms as a continuous conditions. Should this be mobile or a fixed unit?

RESPONSE: Mobile on castors.

2) **INQUIRY:** In room #147 on drawing A1.05, there appears to be casework, however no elevation is provided. Please clarify.

RESPONSE: See attached sketch A4.08.1-1 of 1.

3) **INQUIRY:** We have been asked by bidding GCs to provide Testing & Inspection Services for both the Victory Villa and Lansdowne ES projects. I believe in the Specifications, the Owner is responsible for the Testing & Inspections. Will Baltimore County Schools be soliciting RFPs for the Testing & Inspections separately?

RESPONSE: This was addressed in Addendum #4. Construction testing and inspection services will be completed by the Owner. Refer to Specification Section 014000.

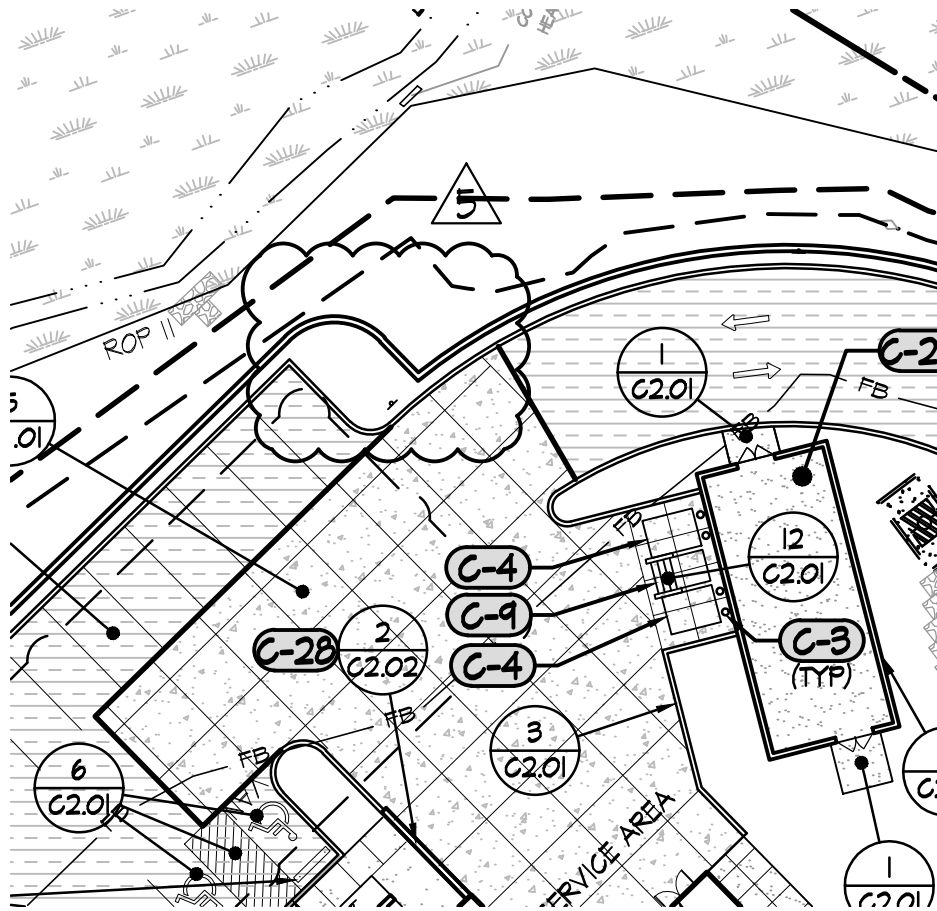
All other specifications and terms remain as stated in original document. This addendum is hereby made a part of the Contract Documents, on which the contract is based and is intended to modify, explain, correct and/or add to the original Contract Documents.

END OF ADDENDUM NUMBER 5

Anita Randall
Purchasing Agent
Baltimore County Public Schools - Office of Purchasing

Katy Angstadt, Project Manager
Bid file

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Z:\15150998-BC\PS Victory Villa ES\04-DWG\PH 2 C1.02 Detail Ref Plan.dwg-ADD 5-1 Dec 13, 2016 02:58pm_rsw



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SUBMISSION:
ADDENDUM #5

C1.02

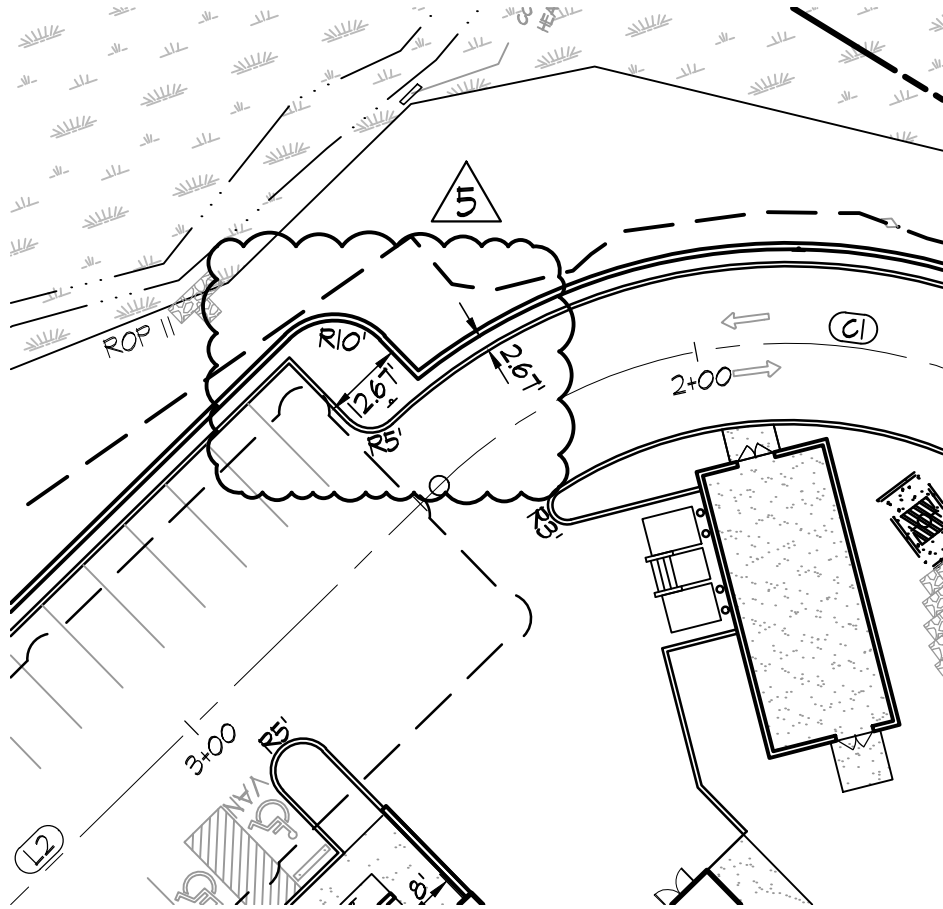
1 OF 1

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/13/16



Z:\1515098-BCPS Victory Villa ES\04-DWG\PH 2 C.1.03 Site Geometric Plan.dwg-ADD 5-1 Dec 13, 2016 02:07pm_rsw



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C1.03
1 OF 1

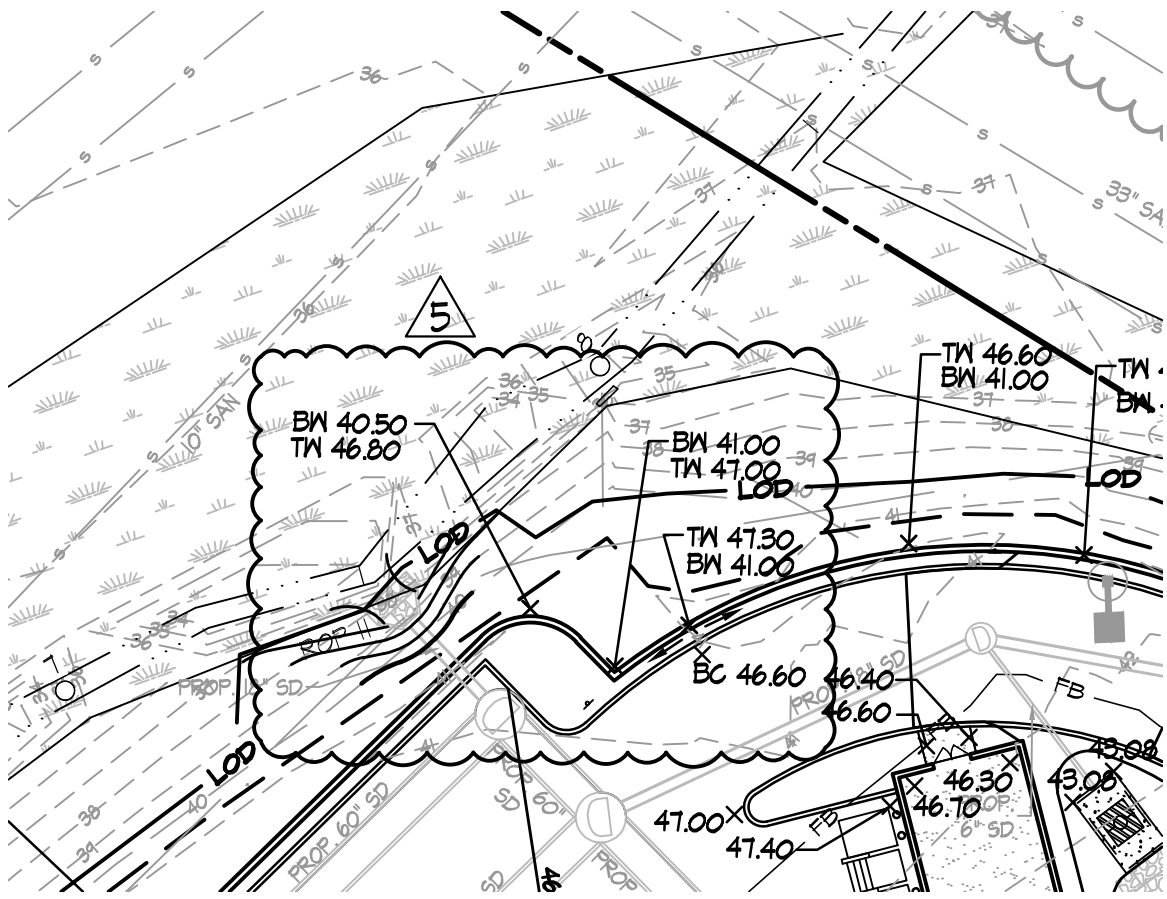
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Drawn By: RSW

Checked By: FPB

Date: 12/13/16

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C1.04
1 OF 1

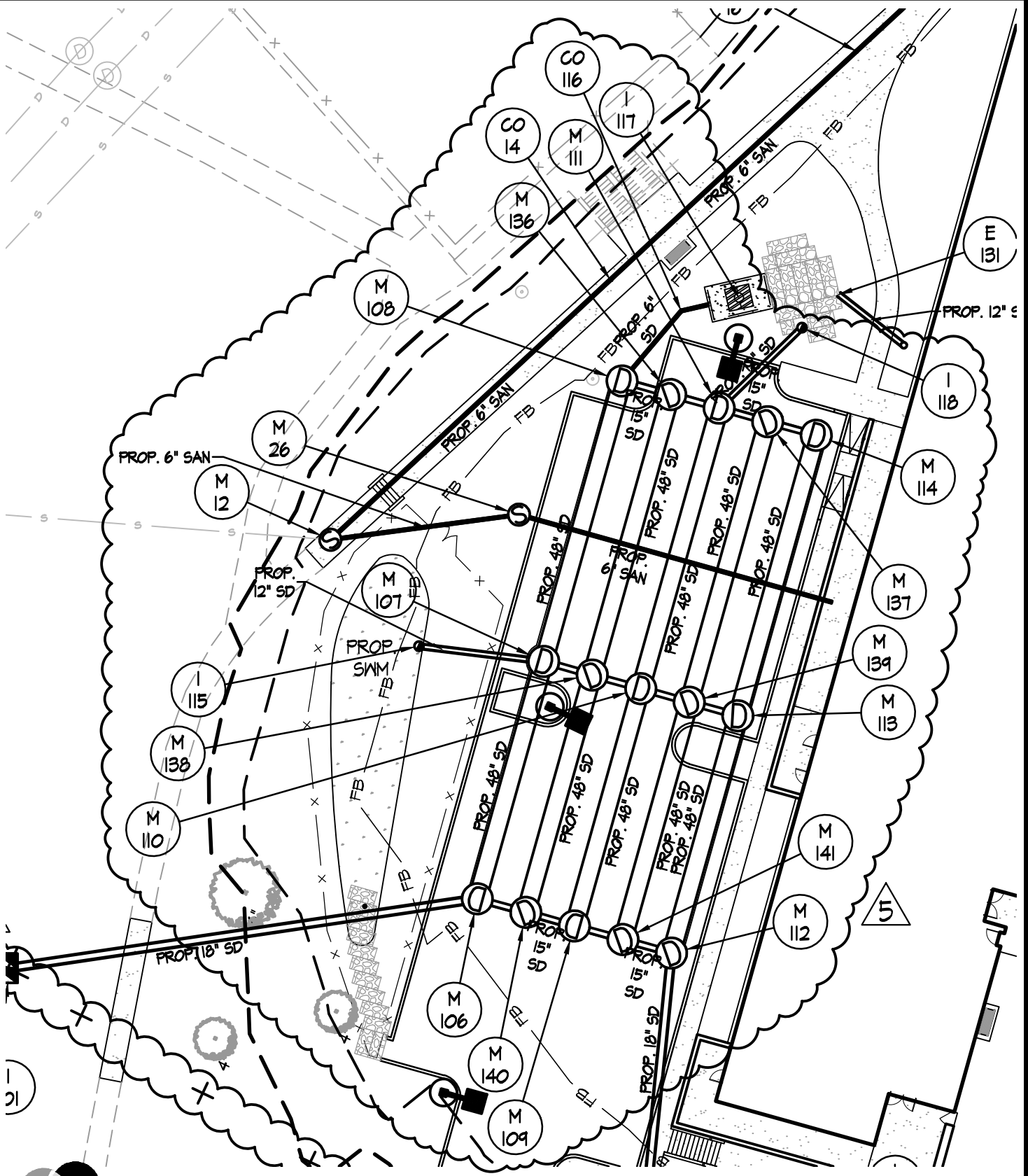
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Checked By: FPB

Date: 12/13/16

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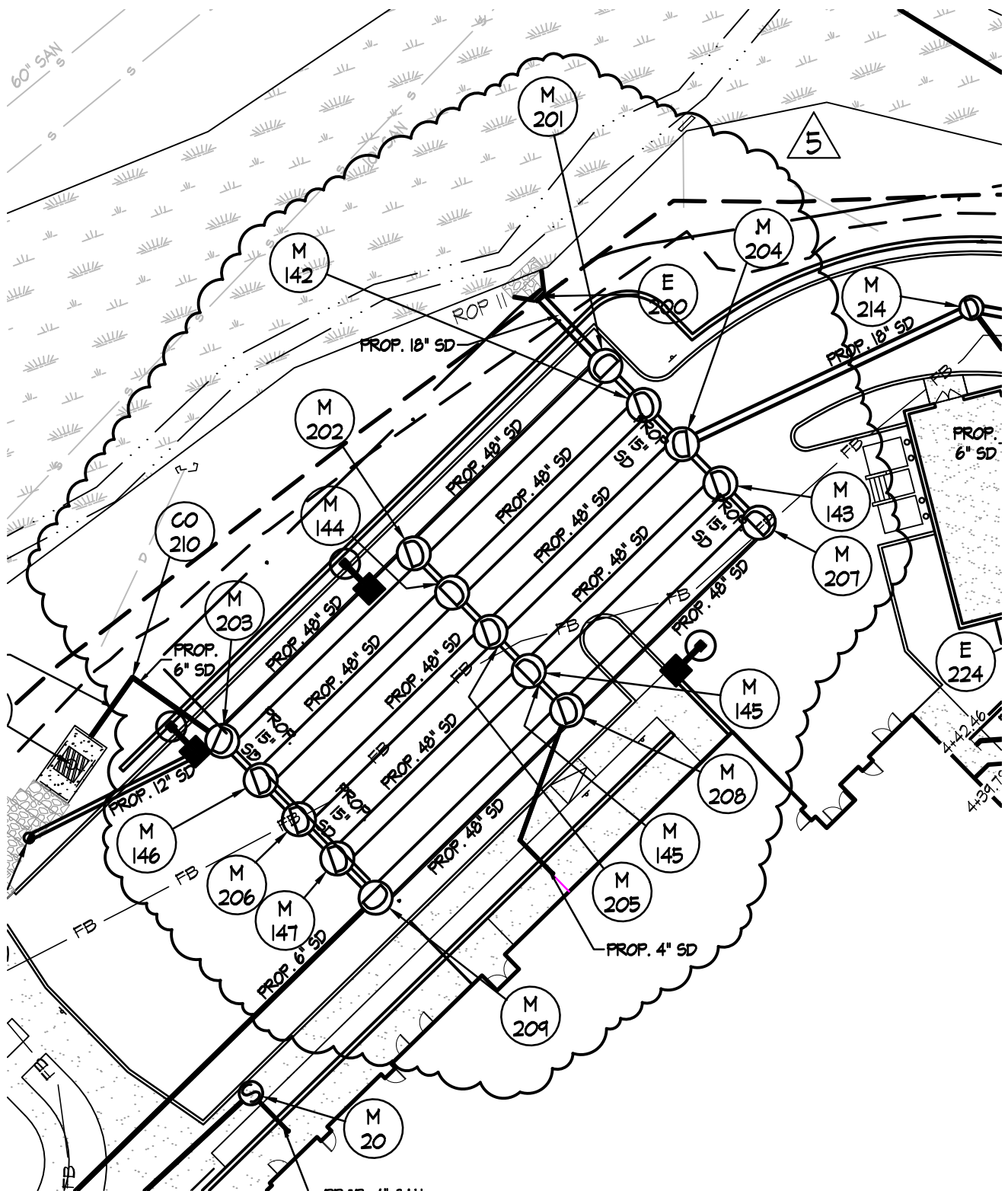
C1.05
1 OF 2

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/13/16



Z:\15115098-BC\PS Victory Villa ES\04-DWG\PH 2 C1.05 Utility Plan.dwg-ADD 5-2 Dec 13, 2016 06:43pm rsw



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C1.05
2 OF 2

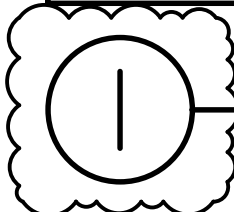
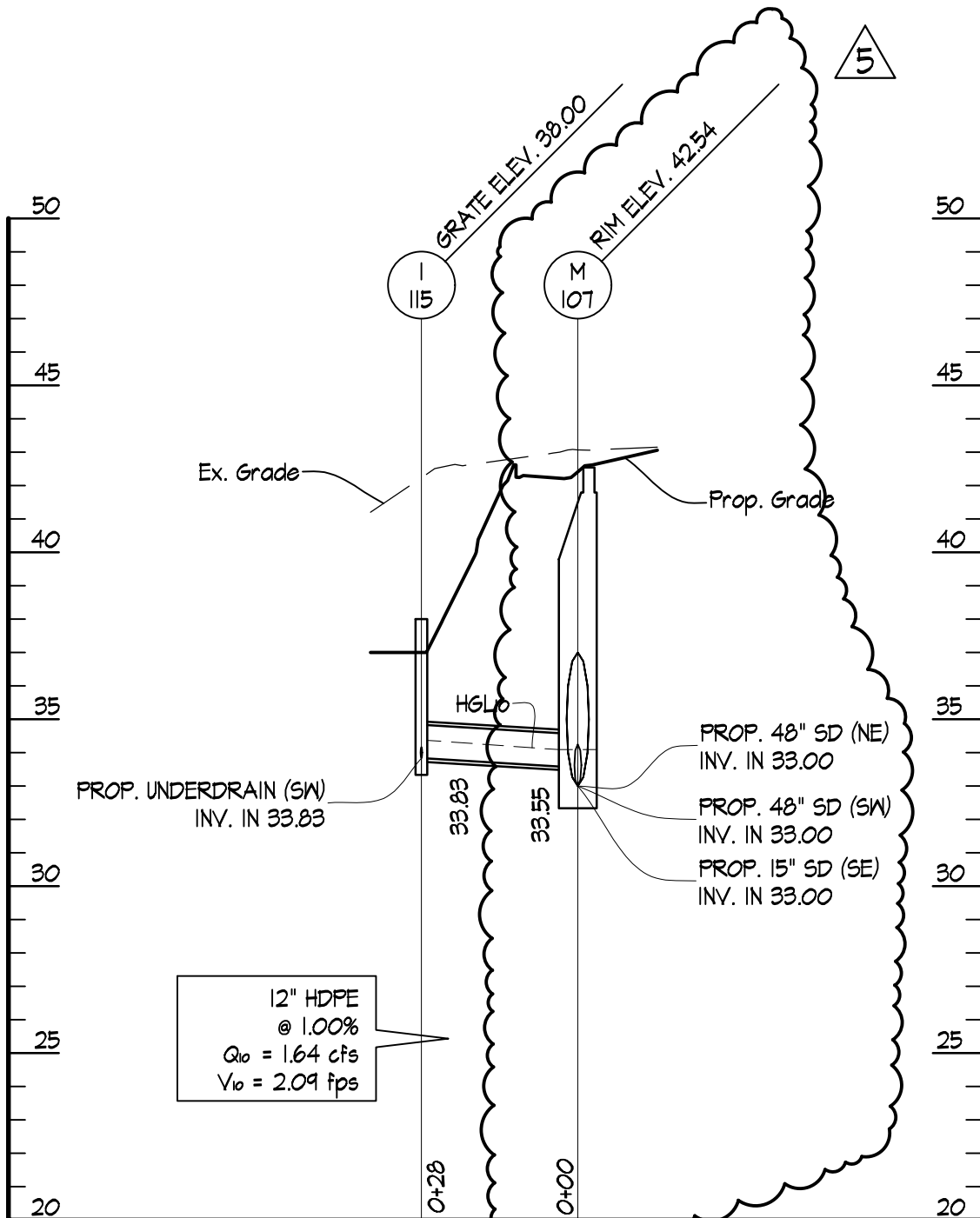
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Date: 12/13/16

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PROP. SD: 1-115 to M-107

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



SITERESOURCES

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SUBMISSION:
ADDENDUM #5

C3.01

1 OF 6

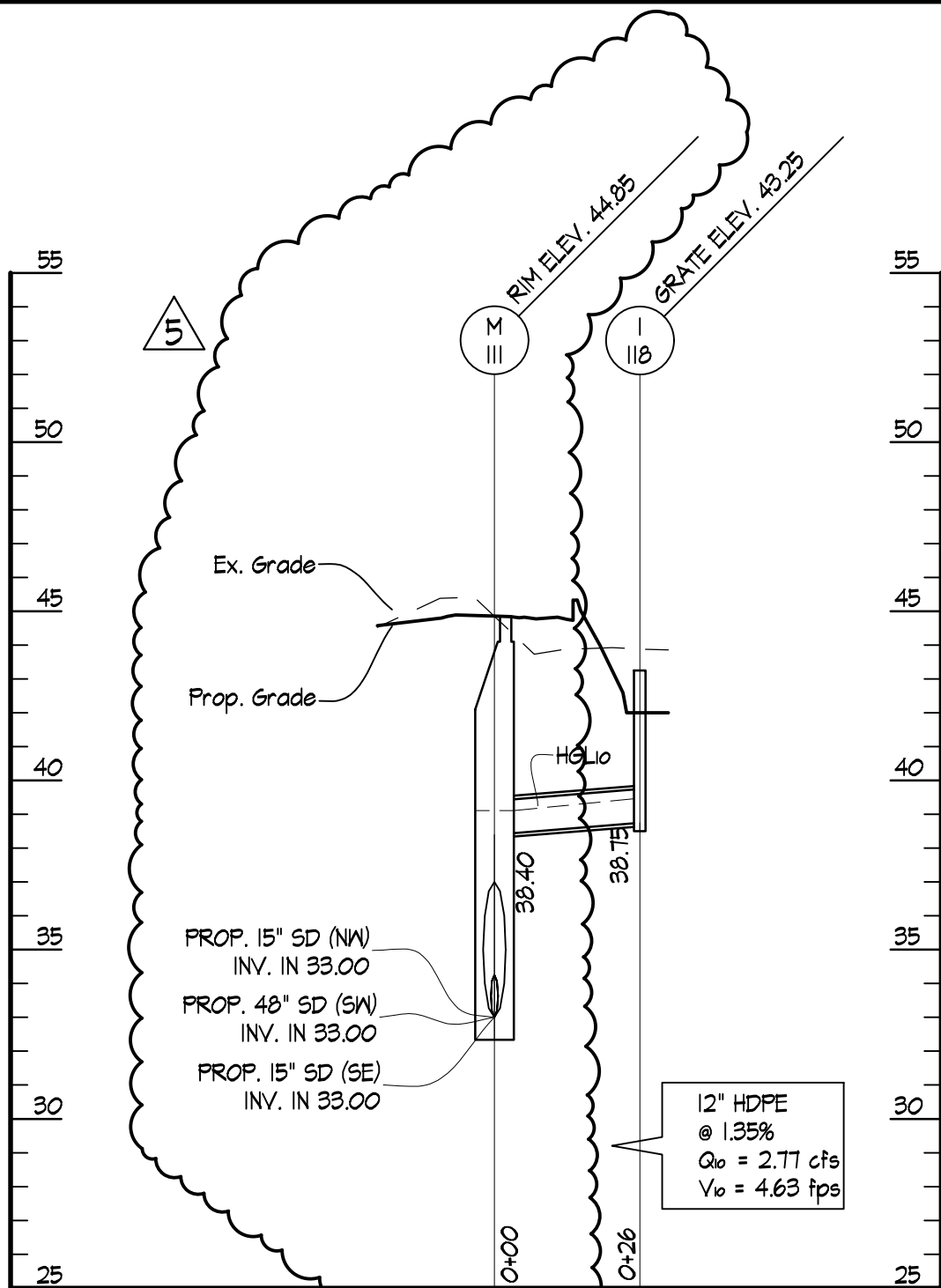
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Date: 12/13/16

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PROP. SD: I-118 to M-111

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



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C3.01
2 OF 6

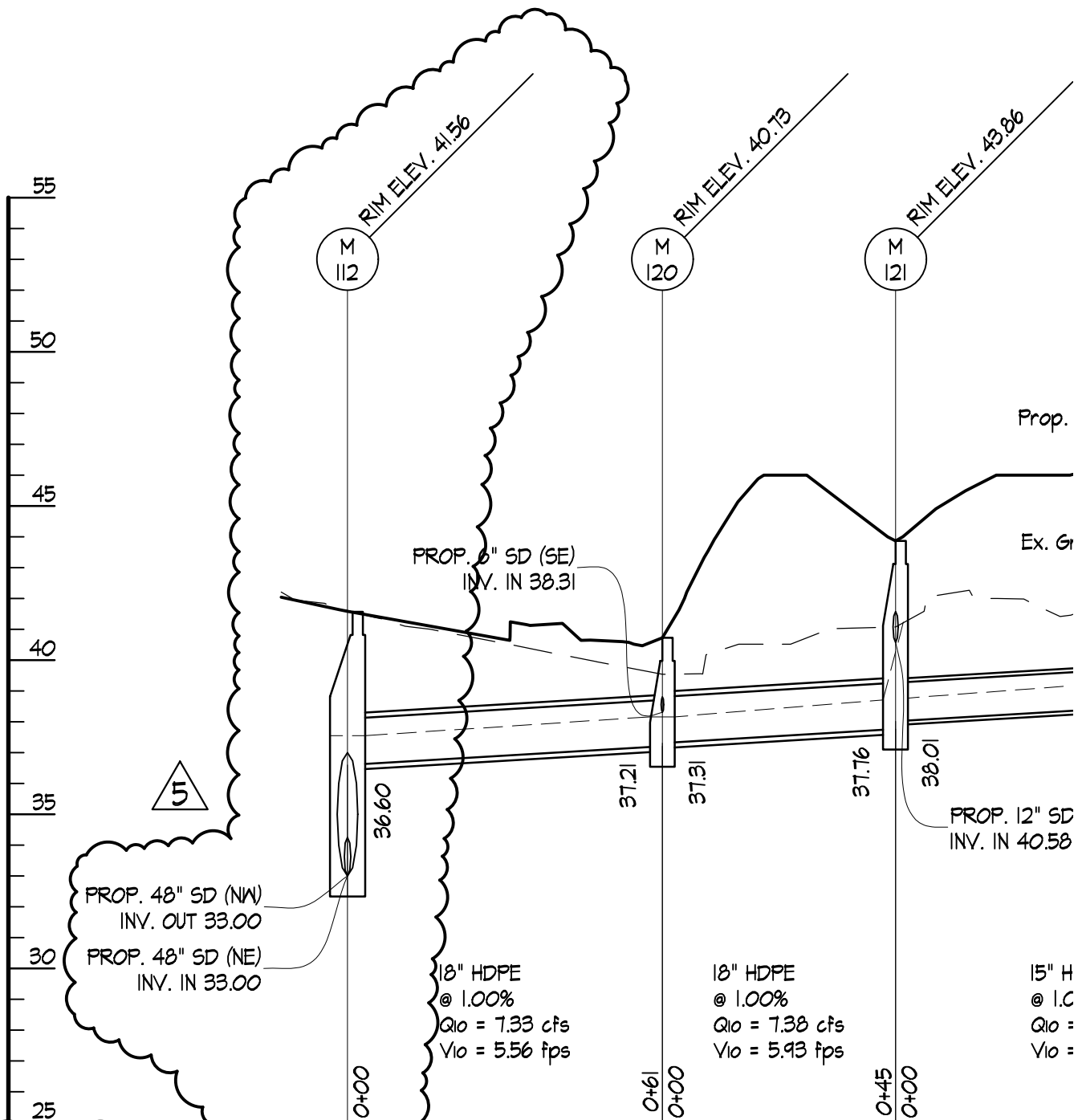
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Date: 12/13/16

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4 PROP. SD: I-124 to M-112



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C3.01
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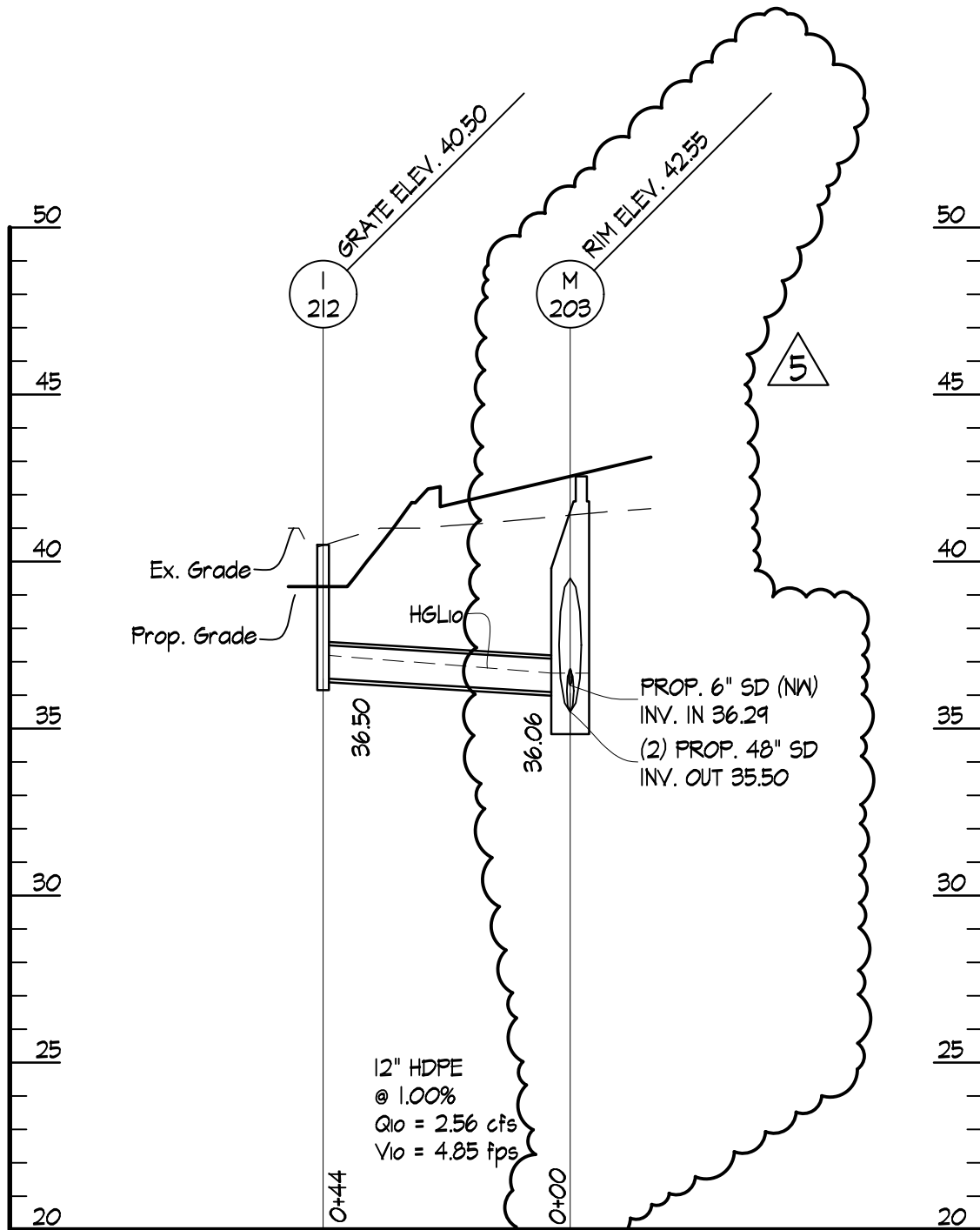
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Date: 12/13/16

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PROP. SD: 1-212 to M-203

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



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C3.01

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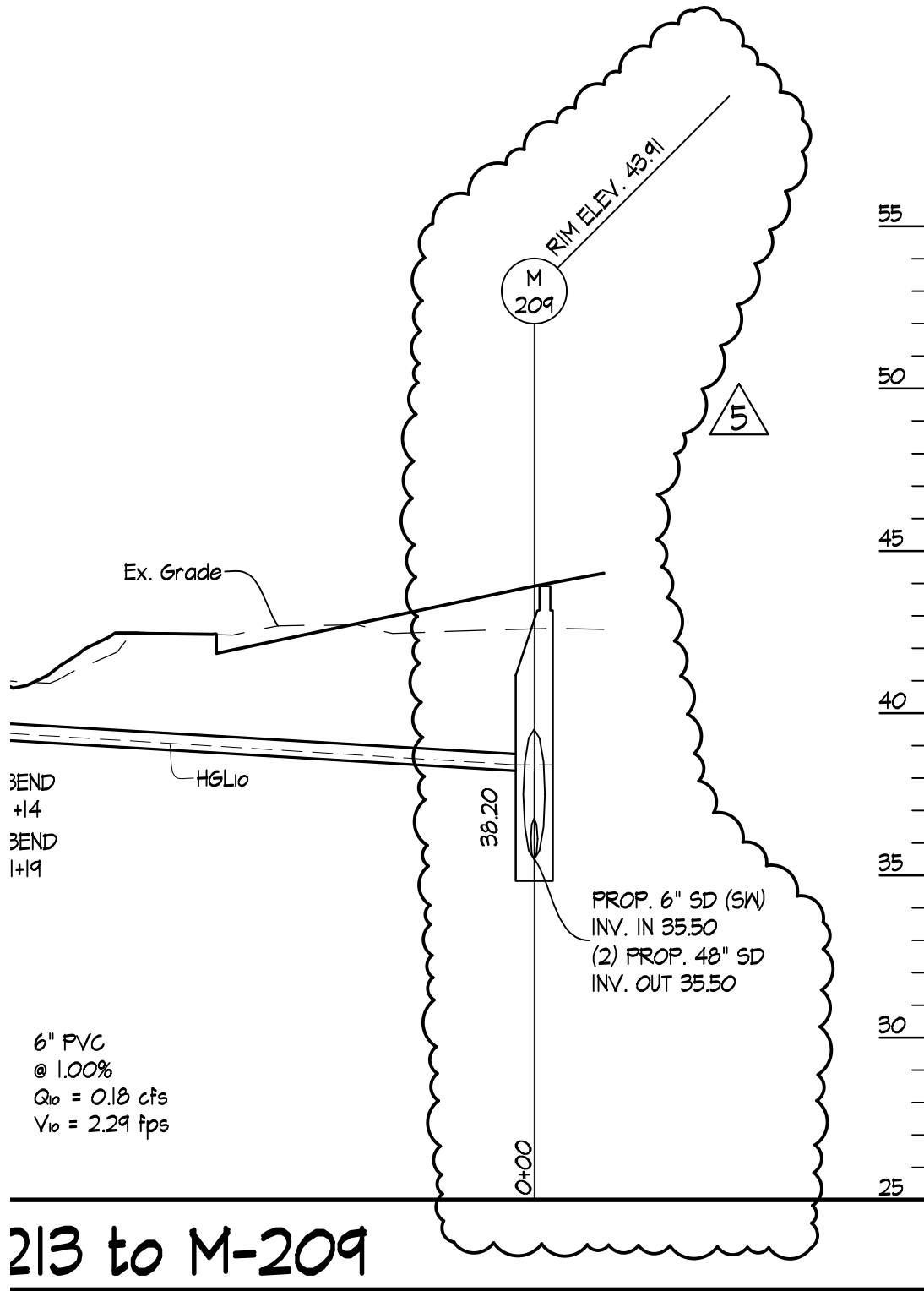
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Checked By: FPB

Date: 12/13/16

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C3.01

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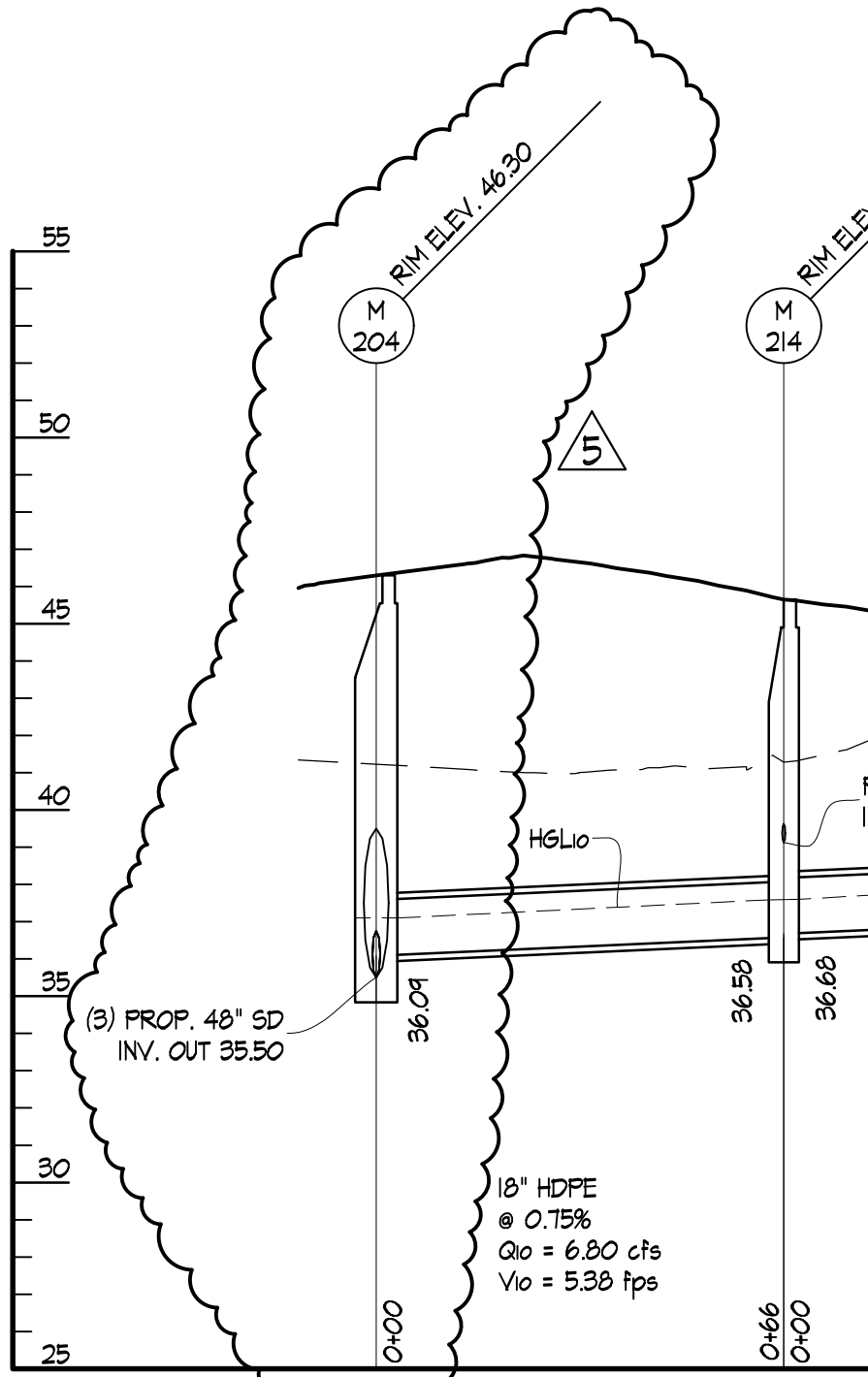
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Date: 12/13/16

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12

PROP. SD: 1-216 to M



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C3.01

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M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/13/16

STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP ELEV.	INV. IN	INV. OUT	COORDINATES
101 1-101 101	PREGAST STANDARD TYPE S INLET DOUBLE GRATE TANDEM BAL.T. CO. D-2.20	GRATE 33.62	18" HDPE (E) 30.45	18" HDPE (W) 30.20	N: 610,486.26 E: 1,465,855.63
106 M-106 106	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 41.09	15" RCCP (SE) 33.00	48" RCCP (NE) 33.00 18" HDPE (W) 33.00	N: 610,465.94 E: 1,465,959.63
107 M-107 107	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 42.54	48" RCCP (SW) 33.00 12" HDPE (NW) 33.55	48" RCCP (NE) 33.00 15" RCCP (SE) 33.00	N: 610,510.95 E: 1,465,991.24
108 M-108 108	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 45.03	6" PVC (NE) 39.06 48" RCCP (SW) 33.00	15" RCCP (SE) 33.00	N: 610,564.14 E: 1,466,028.60
109 M-109 109	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 41.29	15" RCCP (SE) 33.00	15" RCCP (NW) 33.00 48" RCCP (NE) 33.00	N: 610,453.01 E: 1,465,978.04
110 M-110 110	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 43.11	48" RCCP (SW) 33.00 15" RCCP (NW) 33.00	48" RCCP (NE) 33.00 15" RCCP (SE) 33.00	N: 610,498.01 E: 1,466,009.65
111 M-111 111	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 44.85	12" HDPE (NE) 38.40 15" RCCP (NW) 33.00 48" RCCP (SW) 33.00	15" RCCP (SE) 33.00	N: 610,551.20 E: 1,466,047.01
112 M-112 112	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 41.56	48" RCCP (NE) 33.00 18" HDPE (SW) 36.60	15" RCCP (NW) 33.00	N: 610,440.07 E: 1,465,996.45
113 M-113 113	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 43.94	48" RCCP (NE) 33.00 15" RCCP (NW) 33.00	48" RCCP (SW) 33.00	N: 610,485.08 E: 1,466,028.06
114 M-114 114	12" PREGAST TYPE C MANHOLE BAL.T. CO. D-3.02A	RIM 44.84	15" RCCP (NW) 33.00	48" RCCP (SW) 33.00	N: 610,538.27 E: 1,466,065.42
115					



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SUBMISSION:
ADDENDUM #5

C3.02

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M&D Proj #: 15123

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DATE

1/15/16



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114	BALT. CO. D-3.02A	44.84			E: 1,466,065.42
115 I-115 115	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 38.00	4" PVC (SW) 33.83	12" HDPE (SE) 33.83	N: 610,523.44 E: 1,465,966.08
117 I-117 117	FILTERA UNIT FTOT13	SLAB 43.08		6" PVC (W) 39.67	N: 610,572.96 E: 1,466,059.39
118 I-118 118	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 43.25		12" HDPE (SW) 38.75	N: 610,562.00 E: 1,466,070.40
120 M-120 120	TYPE B SHALLOW MANHOLE BALT. CO. D-3.03	RIM 40.73	18" HDPE (SE) 37.31 6" PVC (SE) 38.31	18" HDPE (NE) 37.21	N: 610,384.64 E: 1,465,970.34
121 M-121 121	PRECAST TYPE A MANHOLE BALT. CO. D-3.01	RIM 43.86	15" HDPE (E) 38.01 12" HDPE (NE) 40.58	18" HDPE (NW) 37.76	N: 610,344.37 E: 1,465,991.25
122 M-122 122	PRECAST TYPE A MANHOLE BALT. CO. D-3.01	RIM 46.23	6" PVC (N) 42.40 15" HDPE (E) 38.90	15" HDPE (W) 38.80	N: 610,318.35 E: 1,466,065.24
123 M-123 123	PRECAST TYPE A MANHOLE BALT. CO. D-3.01	RIM 47.61	12" HDPE (E) 41.76 12" HDPE (NE) 39.94	15" HDPE (W) 39.69	N: 610,296.72 E: 1,466,141.75
124 I-124 124	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 47.00	4" PVC (NE) 42.83	12" HDPE (W) 42.17	N: 610,294.80 E: 1,466,182.45
125 I-125 125	FILTERA UNIT FTOT13	SLAB 45.08		6" PVC (NW) 41.67	N: 610,367.91 E: 1,465,994.10
126 I-126 126	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 45.25		12" HDPE (SW) 40.75	N: 610,353.45 E: 1,466,006.00
127 CO-127 127	ABT 6" POLYDRAIN	GRATE 47.70		6" PVC (S) 42.66	N: 610,342.75 E: 1,466,075.24





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 VICTORY VILLA ELEMENTARY SCHOOL
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125 I-125 125	FILTERA UNIT FT07B	SLAB 45.08	6" PVC (NW) 41.67	N: 610,367.91 E: 1,465,994.10
126 I-126 126	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 45.25	12" HDPE (SW) 40.75	N: 610,353.45 E: 1,466,006.00
127 CO-127 127	ABT 6" POLYDRAIN	GRATE 47.70	6" PVC (S) 42.66	N: 610,342.75 E: 1,466,075.24
128 I-128 128	D-2.16A TYPE S INLET SINGLE GRATE BALTIMORE CO. D-2.16A	GRATE 46.44	12" HDPE (NE) 40.78	N: 610,351.04 E: 1,466,192.26
129 I-129 129	D-2.16A TYPE S INLET SINGLE GRATE BALTIMORE CO. D-2.16A	GRATE 46.80	12" HDPE (SW) 41.46	N: 610,404.12 E: 1,466,233.64
130 I-130 130	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 45.50	12" HDPE (SW) 42.24	N: 610,451.04 E: 1,466,283.11



STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP ELEV.	INV. IN	INV. OUT	COORDINATES
134 I-134 134	TYPE 5 COMBINATION INLET DOUBLE GRATE TANDEM BALT. CO. D-2.19A	GRATE 51.79	12" RCCP (S) 48.82	12" RCCP (SW) 48.62	N: 610,360.12 E: 1,466,236.62
136 M-136 136	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 44.96	15" RCCP (NW) 33.00	15" RCCP (SE) 33.00 48" RCCP (SW) 33.00	N: 610,557.67 E: 1,466,037.81
137 M-137 137	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 44.77	15" RCCP (NW) 33.00	15" RCCP (SE) 33.00 48" RCCP (SW) 33.00	N: 610,544.74 E: 1,466,056.22
138 M-138 138	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 42.81	48" RCCP (NE) 33.00 15" RCCP (NW) 33.00	48" RCCP (SW) 33.00 15" RCCP (SE) 33.00	N: 610,504.48 E: 1,466,000.45
139 M-139 139	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 44.01	48" RCCP (NE) 33.00 15" RCCP (NW) 33.00	48" RCCP (SW) 33.00 15" RCCP (SE) 33.00	N: 610,491.55 E: 1,466,018.86
140 M-140 140	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 41.16	15" RCCP (SE) 33.00 48" RCCP (NE) 33.00	15" RCCP (NW) 33.00	N: 610,459.47 E: 1,465,968.83
141 M-141 141	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 41.43	15" RCCP (SE) 33.00 48" RCCP (NE) 33.00	15" RCCP (NW) 33.00	N: 610,446.54 E: 1,465,987.25
142 M-142 142	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 45.91	15" RCCP (SE) 35.50 48" RCCP (SW) 35.50	15" RCCP (NW) 35.50	N: 610,785.89 E: 1,466,372.34
143 M-143 143	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 46.69	15" RCCP (SE) 35.50 48" RCCP (SW) 35.50	15" RCCP (NW) 35.50	N: 610,765.48 E: 1,466,381.82
144 M-144 144	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 44.55	48" RCCP (SW) 35.50 15" RCCP (SE) 35.50	48" RCCP (NE) 35.50 15" RCCP (NW) 35.50	N: 610,762.71 E: 1,466,322.46
145	72" PRECAST MANHOLE	RIM	48" RCCP (SW) 35.50	48" RCCP (NE) 35.50	N: 610,742.31



BALTIMORE COUNTY PUBLIC SCHOOLS
 VICTORY VILLA ELEMENTARY SCHOOL
 BALTIMORE, MARYLAND

SUBMISSION:
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1144 144	BALT. CO. D-3.02A	44.55	15" RCCP (SE) 35.50	15" RCCP (NW) 35.50	E: 1,466,322.46
145 M-145 145	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 45.34	48" RCCP (SW) 35.50 15" RCCP (SE) 35.50	48" RCCP (NE) 35.50 15" RCCP (NW) 35.50	N: 610,742.31 E: 1,466,331.94
146 M-146 146	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 43.02	15" RCCP (NW) 35.50	15" RCCP (SE) 35.50 48" RCCP (NE) 35.50	N: 610,739.54 E: 1,466,272.58
147 M-147 147	72" PRECAST MANHOLE BALT. CO. D-3.02A	RIM 43.61	15" RCCP (NW) 35.50	15" RCCP (SE) 35.50 48" RCCP (NE) 35.50	N: 610,719.13 E: 1,466,282.06
200 E-200 200	TYPE "A" HEADWALL CIRCULAR PIPE BALT. CO. D-1.01A	RIM 36.87	18" HDPE (SE) 35.11		N: 610,814.03 E: 1,466,359.64
201 M-201 201	72" PRECAST TYPE C MANHOLE BALT. CO. D-3.02A	RIM 45.57	15" RCCP (SE) 35.50 48" RCCP (SW) 35.50	18" HDPE (NW) 35.50	N: 610,716.09 E: 1,466,367.60
202 M-202 202	72" PRECAST TYPE C MANHOLE BALT. CO. D-3.02A	RIM 44.09	48" RCCP (SW) 35.50 15" RCCP (SE) 35.50	48" RCCP (NE) 35.50	N: 610,772.92 E: 1,466,317.72
203 M-203 203	72" PRECAST TYPE C MANHOLE BALT. CO. D-3.02A	RIM 42.55	12" HDPE (W) 36.06 6" PVC (NW) 36.29	15" RCCP (SE) 35.50 48" RCCP (NE) 35.50	N: 610,749.75 E: 1,466,267.84
204 M-204 204	72" PRECAST TYPE C MANHOLE BALT. CO. D-3.02A	RIM 46.30	18" HDPE (E) 36.09 15" RCCP (SE) 35.50 48" RCCP (SW) 35.50	15" RCCP (NW) 35.50	N: 610,775.68 E: 1,466,377.08
205 M-205 205	72" PRECAST TYPE C MANHOLE BALT. CO. D-3.02A	RIM 45.02	48" RCCP (SW) 35.50 15" RCCP (SE) 35.50	48" RCCP (NE) 35.50 15" RCCP (NW) 35.50	N: 610,752.51 E: 1,466,327.20
206 M-206 206	72" PRECAST TYPE C MANHOLE BALT. CO. D-3.02A	RIM 43.30	15" RCCP (NW) 35.50	15" RCCP (SE) 35.50 48" RCCP (NE) 35.50	N: 610,729.34 E: 1,466,277.32
207 M-207 207	72" PRECAST TYPE C MANHOLE BALT. CO. D-3.02A	RIM 47.20	48" RCCP (SW) 35.50	15" RCCP (NW) 35.50	N: 610,755.28 E: 1,466,386.56





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SUBMISSION:
 ADDENDUM #5

C3.02

6 OF 7

M&D Proj.#: 15123

Drawn By: RSW

Checked By: FPB

Date: 12/13/16

STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP ELEV.	INV. IN	INV. OUT	COORDINATES
212 1-212 212	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 40.50		12" HDPE (E) 36.50	N: 610,744.20 E: 1,466,223.80
213 1-213 213	D-2.16A TYPE S INLET SINGLE GRATE BALTIMORE CO. D-2.16A	GRATE 47.91		6" PVC (NW) 39.80	N: 610,619.53 E: 1,466,198.23
214 M-214 214	PRECAST TYPE A MANHOLE BALT. CO. D-3.01	RIM 45.65	18" HDPE (SE) 36.68 6" PVC (S) 39.13	18" HDPE (W) 36.58	N: 610,782.29 E: 1,466,442.40
215 1-215 215	TYPE S COMBINATION INLET DOUBLE GRATE TANDEM BALT. CO. D-2.20	GRATE 43.55	12" HDPE (S) 37.60 15" HDPE (SW) 38.20	18" HDPE (NW) 37.10	N: 610,754.31 E: 1,466,491.59
216 1-216 216	24" NYLOPLAST DRAIN BASIN	GRATE 43.00	4" PVC (S) 38.33	12" HDPE (N) 38.33	N: 610,683.04 E: 1,466,490.79
218 1-218	FILTERA UNIT FT013	SLAB 40.33		6" PVC (N) 39.42	N: 610,747.88 E: 1,466,153.91



207
M-207
207
208
M-208
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209
M-209
209
211
1-211
211

RIM
47.20
RIM
45.65
RIM
43.91
SLAB
40.33

48" RCCP (SW) 35.50
48" RCCP (SW) 35.50
4" PVC (SW) 42.12
15" RCCP (NW) 35.50
6" PVC (SW) 38.20
6" PVC (NE) 37.73

15" RCCP (NW) 35.50
48" RCCP (NE) 35.50
15" RCCP (NW) 35.50
48" RCCP (NE) 35.50
6" PVC (NE) 37.73
N: 610,755.28
E: 1,466,386.56
N: 610,732.11
E: 1,466,336.68
N: 610,708.93
E: 1,466,286.80
N: 610,755.51
E: 1,466,237.00

MANHOLE
BALT. CO. D-3.02A
72" PRECAST TYPE C
MANHOLE
BALT. CO. D-3.02A
72" PRECAST TYPE C
MANHOLE
BALT. CO. D-3.02A
FILTERA UNIT FT013



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7 OF 7

M&D Proj.#: 15123

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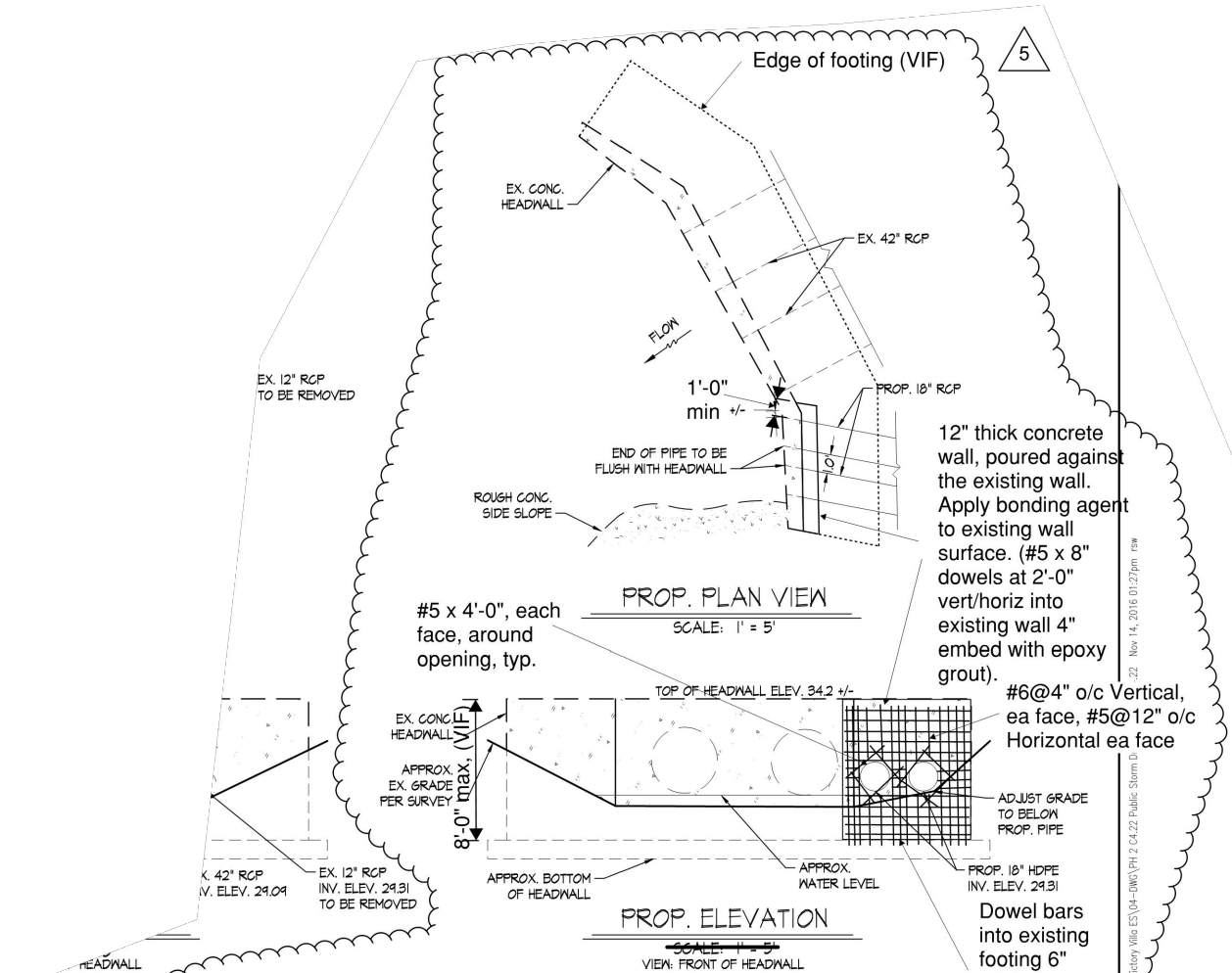
Checked By: FPB

Date: 12/13/16

216 I-216 216	24" NYLOPLAST DRAIN BASIN	GRATE 43.00	4" PVC (S) 38.33	12" HDPE (N) 38.33	N: 610,683.04 E: 1,466,490.79
218 I-218 218	FILTERA UNIT FTOTIS	SLAB 43.08		6" PVC (N) 39.42	N: 610,747.88 E: 1,466,453.31
219 I-219 219	24" NYLOPLAST DRAIN BASIN W/ DOME GRATE	GRATE 43.25	12" HDPE (S) 38.85	15" HDPE (NE) 38.60	N: 610,728.09 E: 1,466,461.32
220 M-220 220	PRECAST TYPE A MANHOLE BALT. CO. D-3.01	RIM 46.15	12" HDPE (SW) 41.07	12" HDPE (N) 40.97	N: 610,605.47 E: 1,466,471.40
221 I-221 221	D-2.16A TYPE S INLET SINGLE GRATE BALTIMORE CO. D-2.16A	GRATE 44.67	12" HDPE (SW) 41.76	12" HDPE (NE) 41.66	N: 610,578.37 E: 1,466,418.56
222 M-222 222	TYPE B SHALLOW MANHOLE BALT. CO. D-3.03	RIM 45.54	12" HDPE (S) 42.47 6" HDPE (W) 42.97	12" HDPE (NE) 42.37	N: 610,549.93 E: 1,466,365.85
223 I-223 223	PRECAST STANDARD TYPE S COMBINATION INLET DOUBLE GRATE TANDEM BALT. CO. D-2.20	GRATE 47.33		12" HDPE (N) 43.33	N: 610,489.49 E: 1,466,365.72



Z:\1515098-BC\PS Victory Villa ES\04-DWG\PH 2 C4.22 Public Storm Drain Plan.dwg-ADD 5-1 Dec. 13, 2016 03:35pm rsw



CONCRETE HEADWALL DETAILS

NOTE: ENLARGE EX. 12" PIPE PENETRATION THROUGH EX. CONG. HEADWALL TO RECEIVE 2-18 IN STORM DRAINS WITH 12 INCHES IN BETWEEN OUTSIDE SURFACES OF PIPES. FILL VOIDS IN HEADWALL PENETRATION BETWEEN AND AROUND PIPES W/ CONCRETE (4,000 PSI). SEE REBAR ADJUSTMENT DETAIL FOR EXISTING AND PROPOSED REINFORCING OF EX. CONG. HEADWALL.

All rebar to be epoxy coated.
 Concrete strength = 5000 psf minimum.
 Epoxy grout to be Hilti HY 200 or approved eq.

DESIGN AND DRAWING BASED ON MARYLAND COORDINATE SYSTEM NAD 83/91 HORIZONTAL AND NAVD 1988 VERTICAL DATUM.

12" thick concrete wall, poured against the existing wall. Apply bonding agent to existing wall surface. (#5 x 8" dowels at 2'-0" vert/horiz into existing wall 4" embed with epoxy grout).

#6@4" o/c Vertical, ea face, #5@12" o/c Horizontal ea face

Dowel bars into existing footing 6" minimum, set in epoxy grout.

DWG FILENAME: Z:\1515098-BC\PS Victory Villa ES\04-DWG\PH 2 C4.22 Public Storm D

PUBLIC WORKS BUREAU OF ENGINEERING & CONSTRUCTION
 STORM DRAINS
 HONEYCREEK ROAD

SHEET DESIGNATION	CONTRACT NO.
	JOB ORDER NO.
	210-204-5904



NOT TO SCALE



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1 OF 2

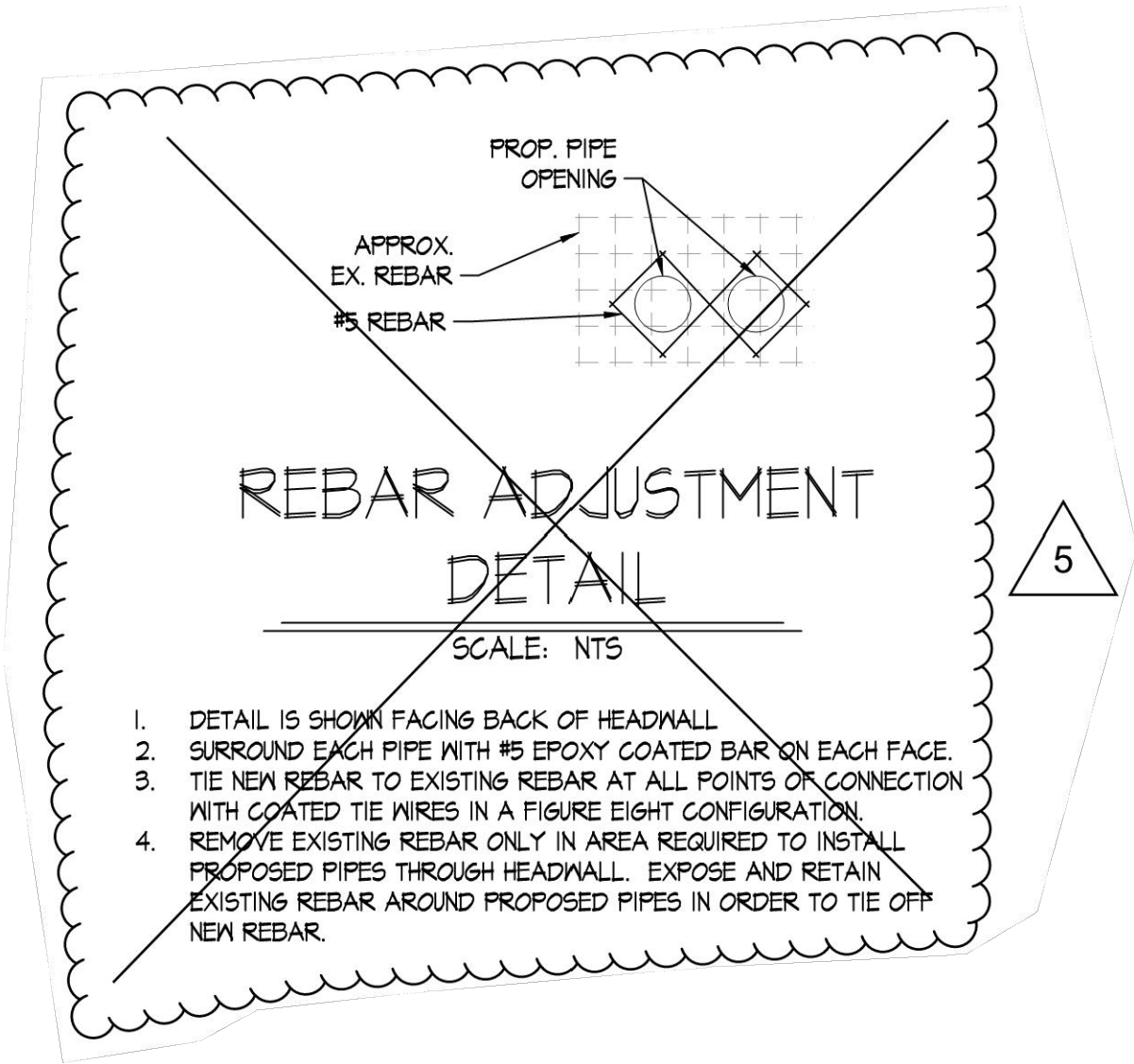
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2 OF 2

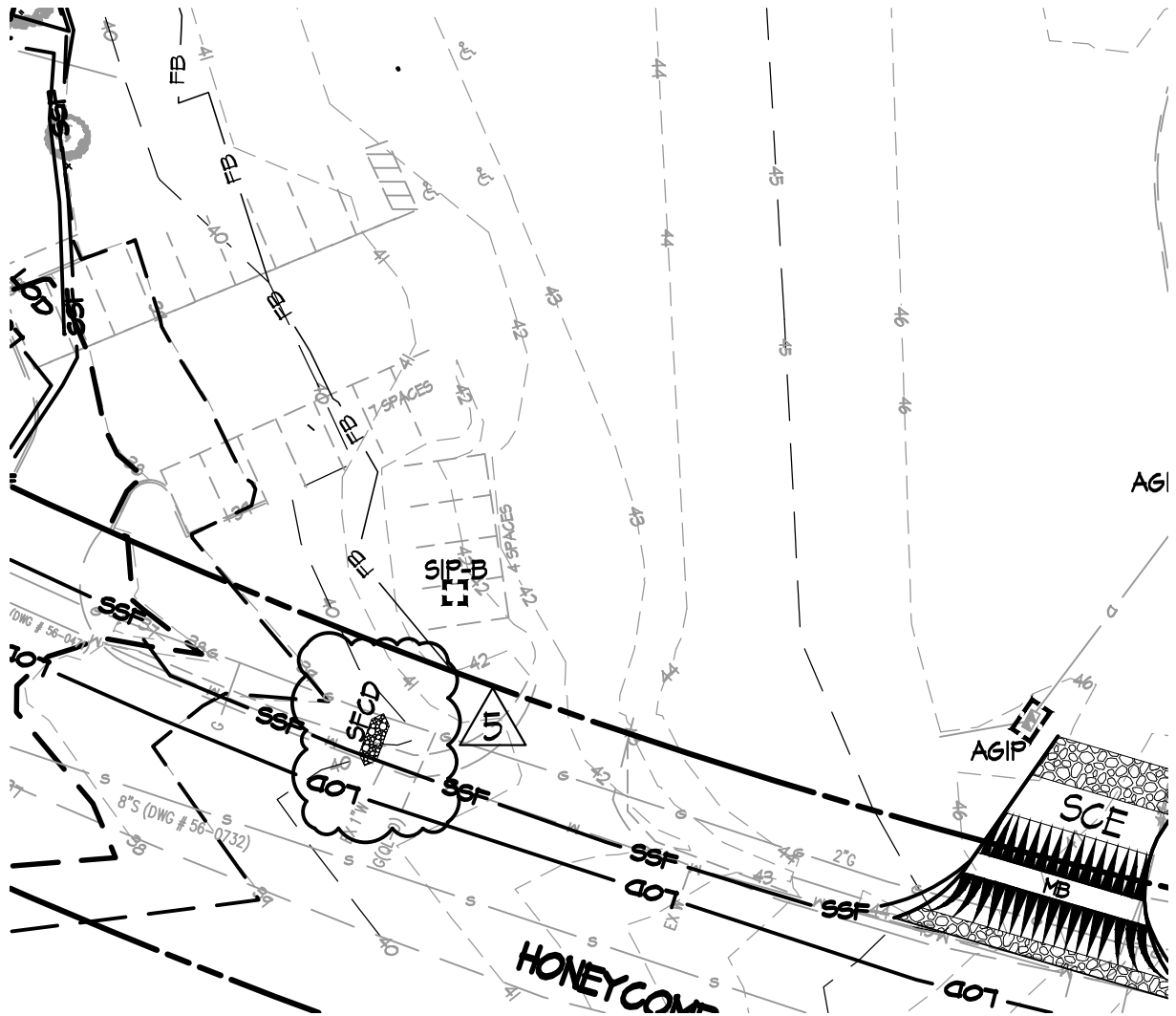
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ESC1.01
 1 OF 2

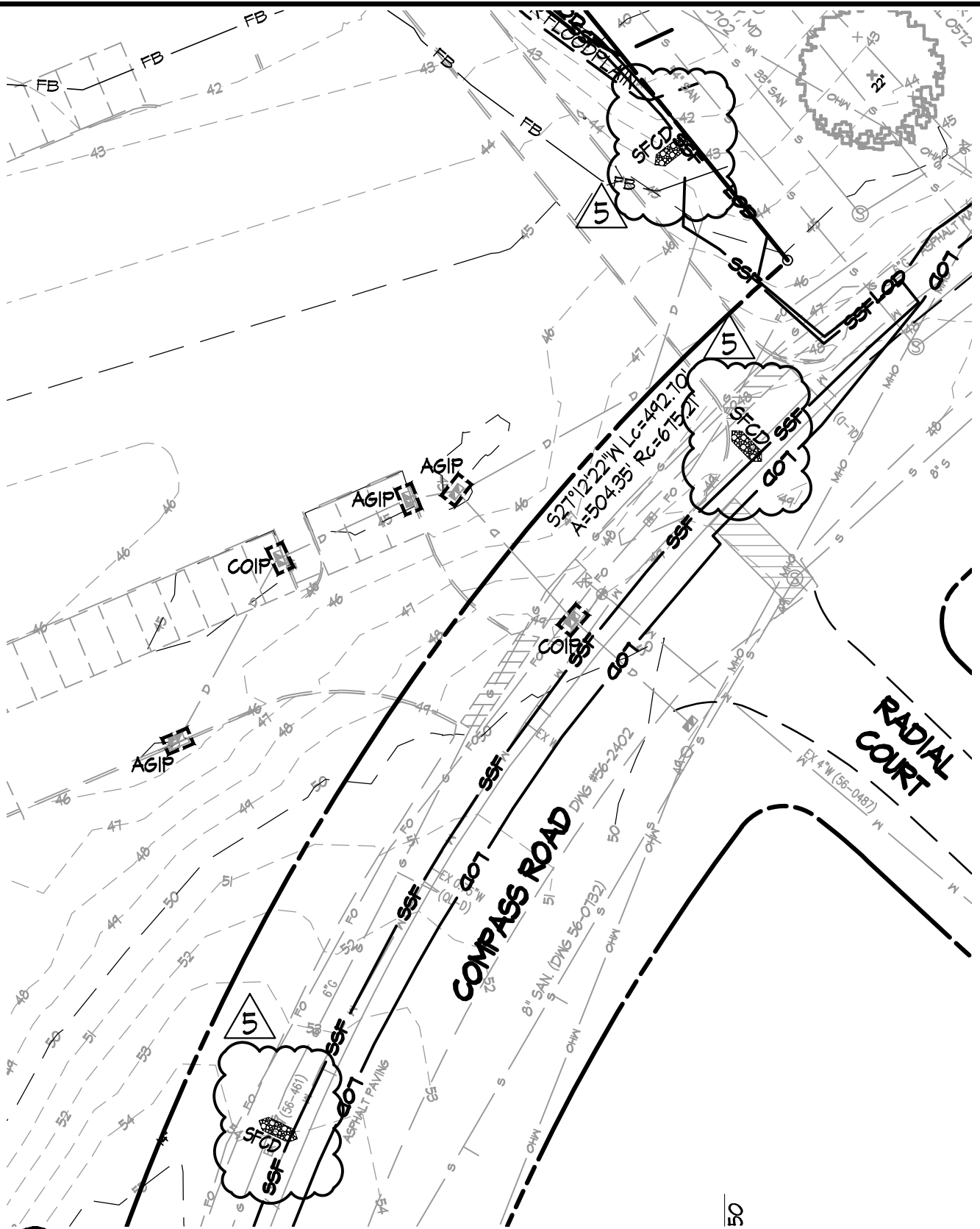
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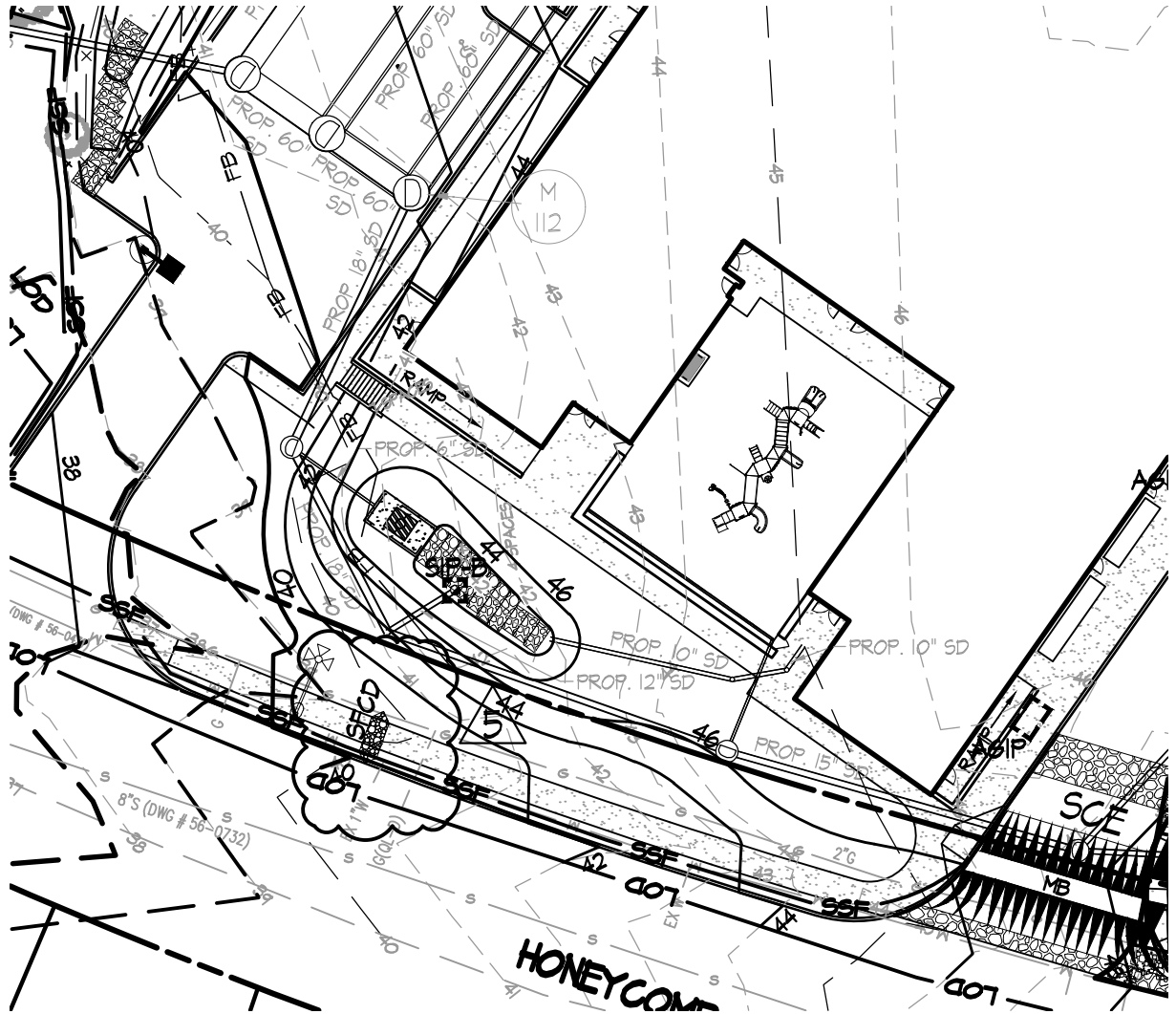
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ESC1.02

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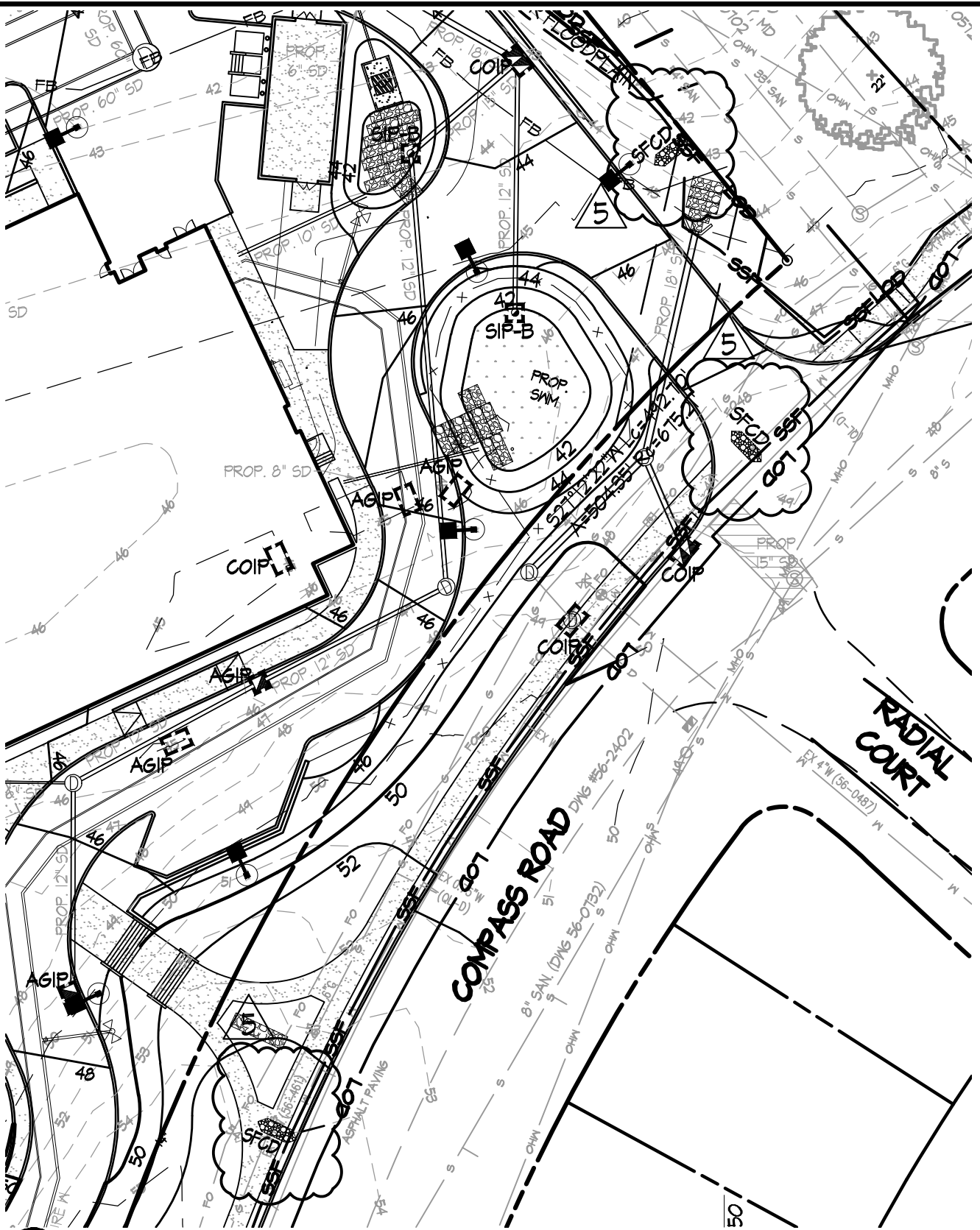
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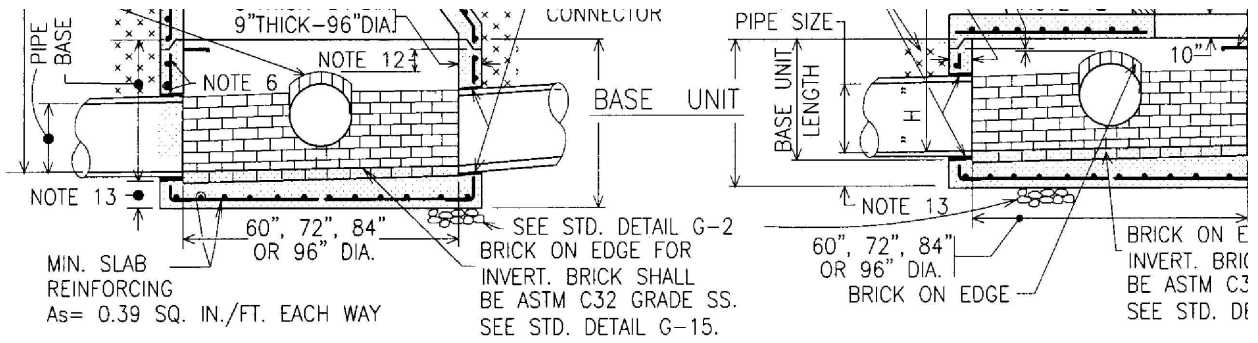
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Date: 12/13/16

2 OF 2

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STANDARD PRECAST MANHOLE

SHALLOW PRECAST MANHOLE

NOTES:

1. UNLESS OTHERWISE NOTED, MANHOLE TAPERS, RISERS AND BASES SHALL BE FURNISHED IN STRICT ACCORDANCE WITH A.S.T.M. DESIGNATION C-478 (LATEST) FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
2. ALL CONCRETE SHALL BE 4,500 PSI COMPRESSIVE STRENGTH.
3. SHALLOW MH REINFORCEMENT SAME AS STANDARD MH.
4. SEE STANDARD DETAIL PLATE G-4 FOR MANHOLE STEP SPECIFICATIONS, SPACING AND PLACEMENT. STEP LOCATION SHOWN IS FOR ILLUSTRATION ONLY. LOCATE STEPS 90' FROM MAIN FLOW CHANNEL WITHIN MANHOLE.
5. A PRECAST MANHOLE SECTION MAY BE PLACED OVER EXISTING PIPE. SEE DETAIL FOR PRECAST MANHOLE "DOGHOUSE" RISER, STANDARD DETAIL PLATE D-3.07.
6. MINIMUM CIRCUMFERENTIAL REINFORCEMENT PER A.S.T.M. C 478.
7. USE A MINIMUM OF 1 MANHOLE STEP IN BASE
8. PRECAST MANHOLE RISER JOINTS: THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS TO THEIR OWN DESIGN. THE JOINTS SHALL BE SEALED BY CONTRACTOR AND MADE WATER-TIGHT USING TURTURER'S RECOMMENDED ASTM OR AASHTO-APPROVED
9. SEE STANDARD DETAIL PLATE G-3 FOR SPECIFIC PLACEMENT OF PRECAST CONCRETE GRADE RINGS
10. USE LARGEST APPLICABLE RISER UNIT LENGTHS. MINIMUM OF ONE- 1 FOOT LENGTH RISER UNIT PI TO BE PLACED IMMEDIATELY BELOW ECCENTRIC
11. SEE DETAIL PLATE D-3.02B FOR PRECAST TOP FOR SHALLOW MH.
12. MAINTAIN 2" MIN. FROM PIPE OPENING TO JOINT. USE A SPECIAL REINFORCED DESIGN.
13. BOTTOM SLAB THICKNESS: 8" MIN. (60", 72" OR 84" DIA.)
10" MIN. (96" DIA.)

	<p>APPROVAL <i>[Signature]</i> DIRECTOR <i>[Signature]</i> BUR. OF ENGINEERING/CONSTRUCTION 01-31-07 DATE</p>	<p>DEPARTMENT OF PUBLIC WORKS STORM DRAINAGE DETAILS PRECAST TYPE C MANHOLE FOR PIPES 21" TO 60" HORIZ. DIA</p>	<p>ISSUED: ___ REVISED: ___ REVISED: ___ D-;</p>
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2

72" DIA. BASE - STORAGE MANHOLE

5



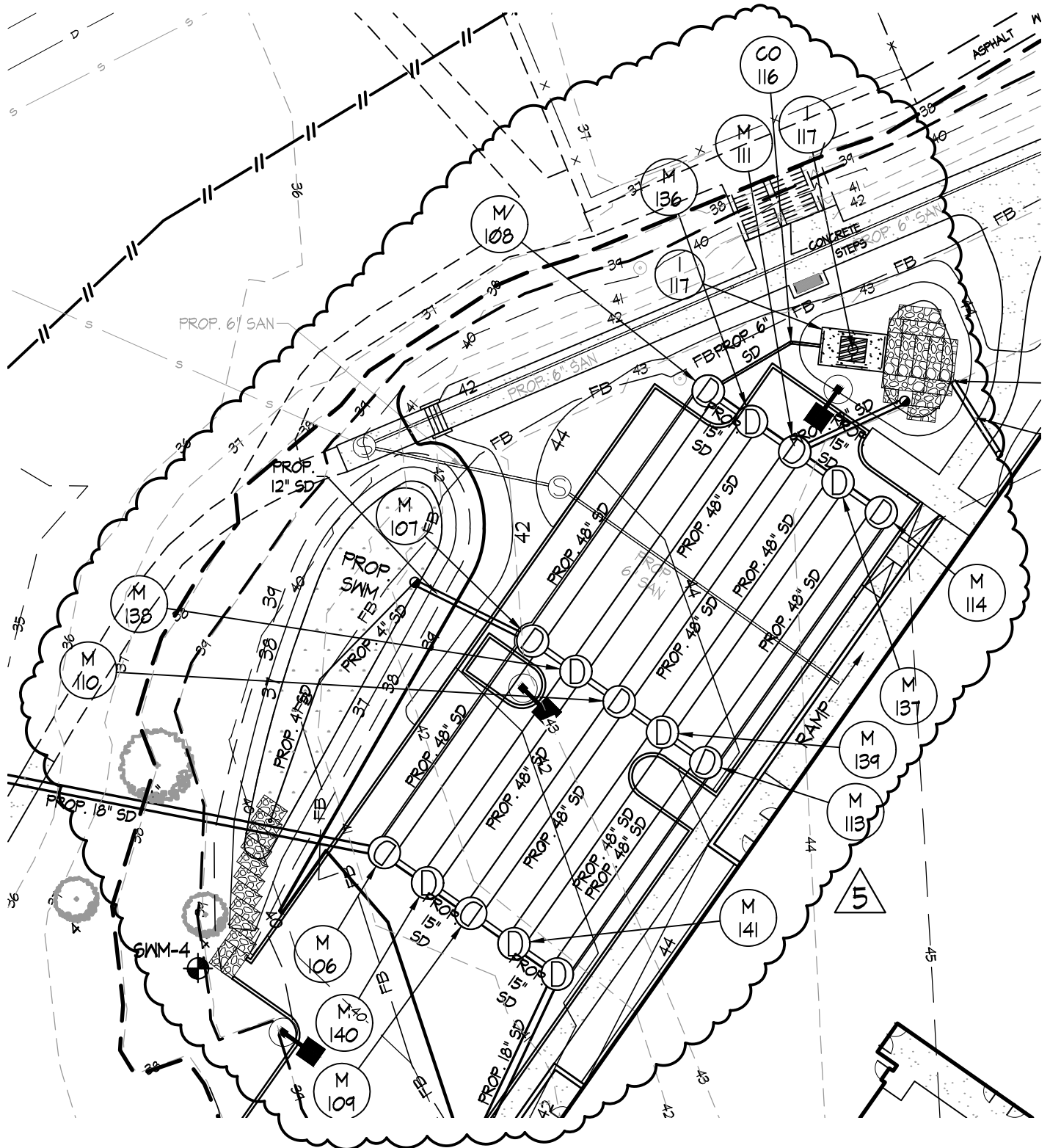
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M&D Proj.#: 15123 Drawn By: RSW Checked By: FPB Date: 12/13/16 1 OF 1

Z:\1515098-BCPS Victory Villa ES\04-DWG\PH 2 SWM 2.04 - Storage Profiles.dwg-ADD 5-1 Dec. 13, 2016 07:09pm rsw



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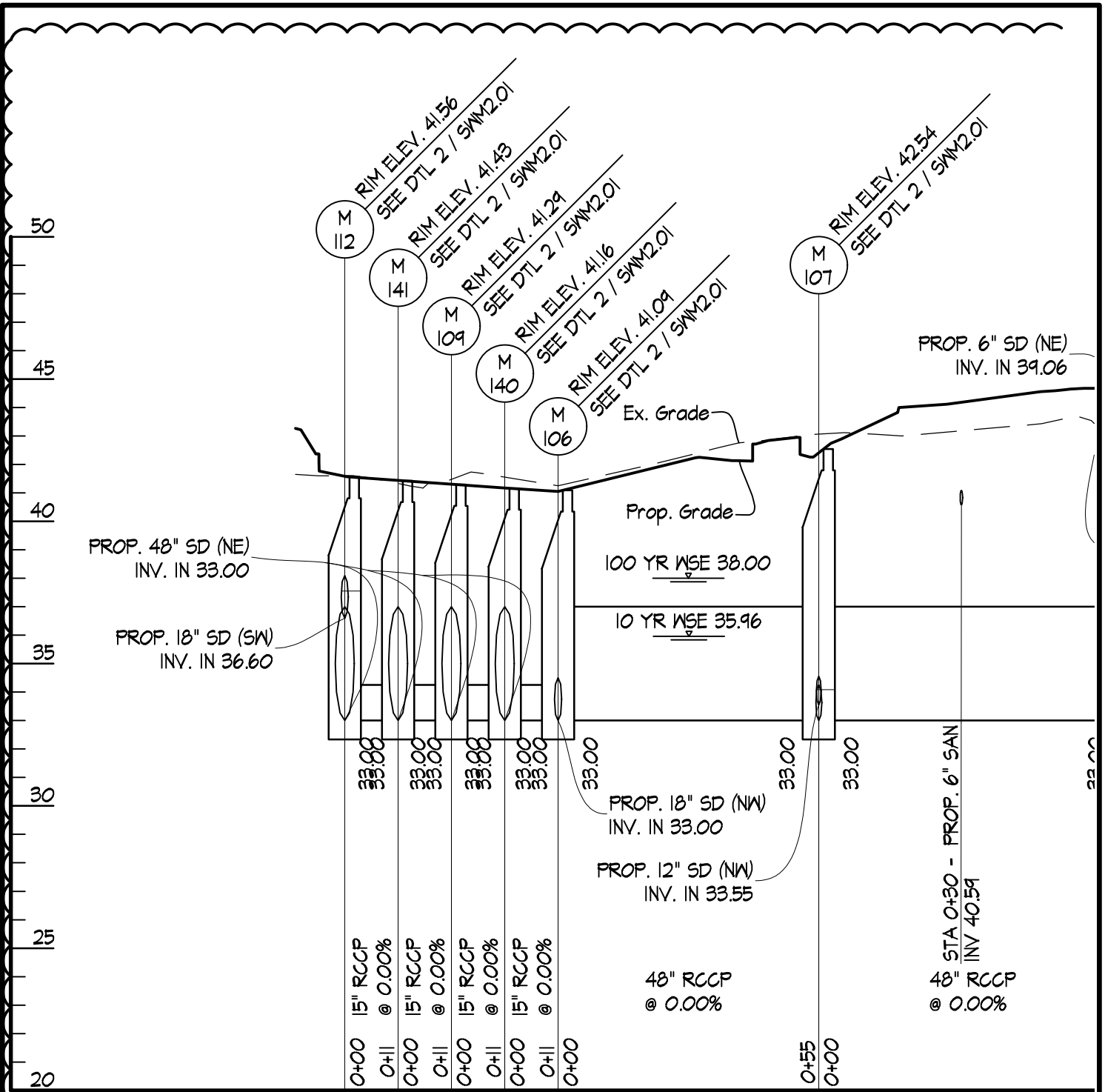
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1 OF 6

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2

STORAGE FACILITY PROFILE

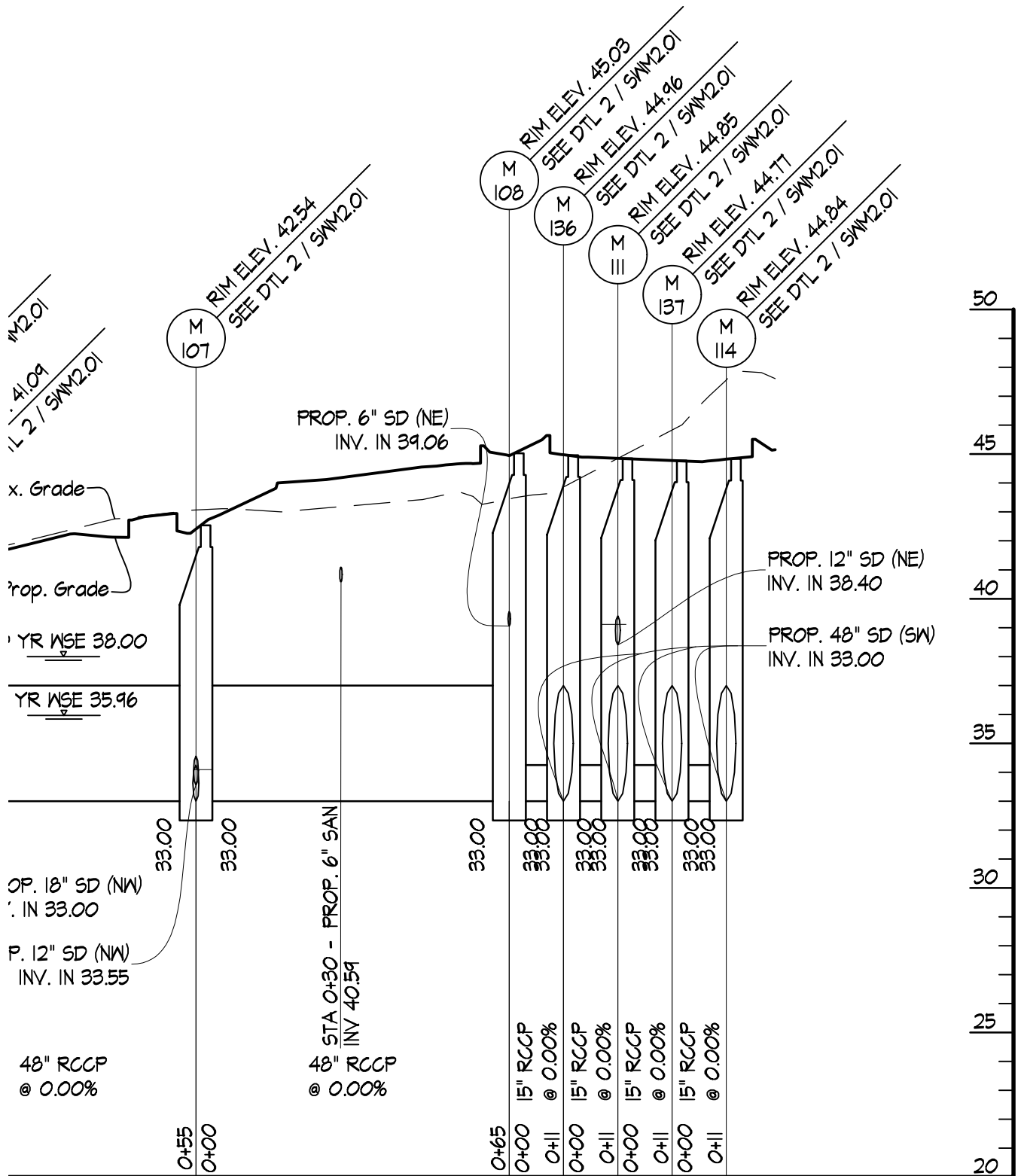


SEE SHEET 3 OF 6
FOR CONTINUATION

5

		BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND		SUBMISSION: ADDENDUM #5 SWM2.04 2 OF 6	
M&D Proj.#: 15123	Drawn By: RSW	Checked By: FPB	Date: 12/13/16		

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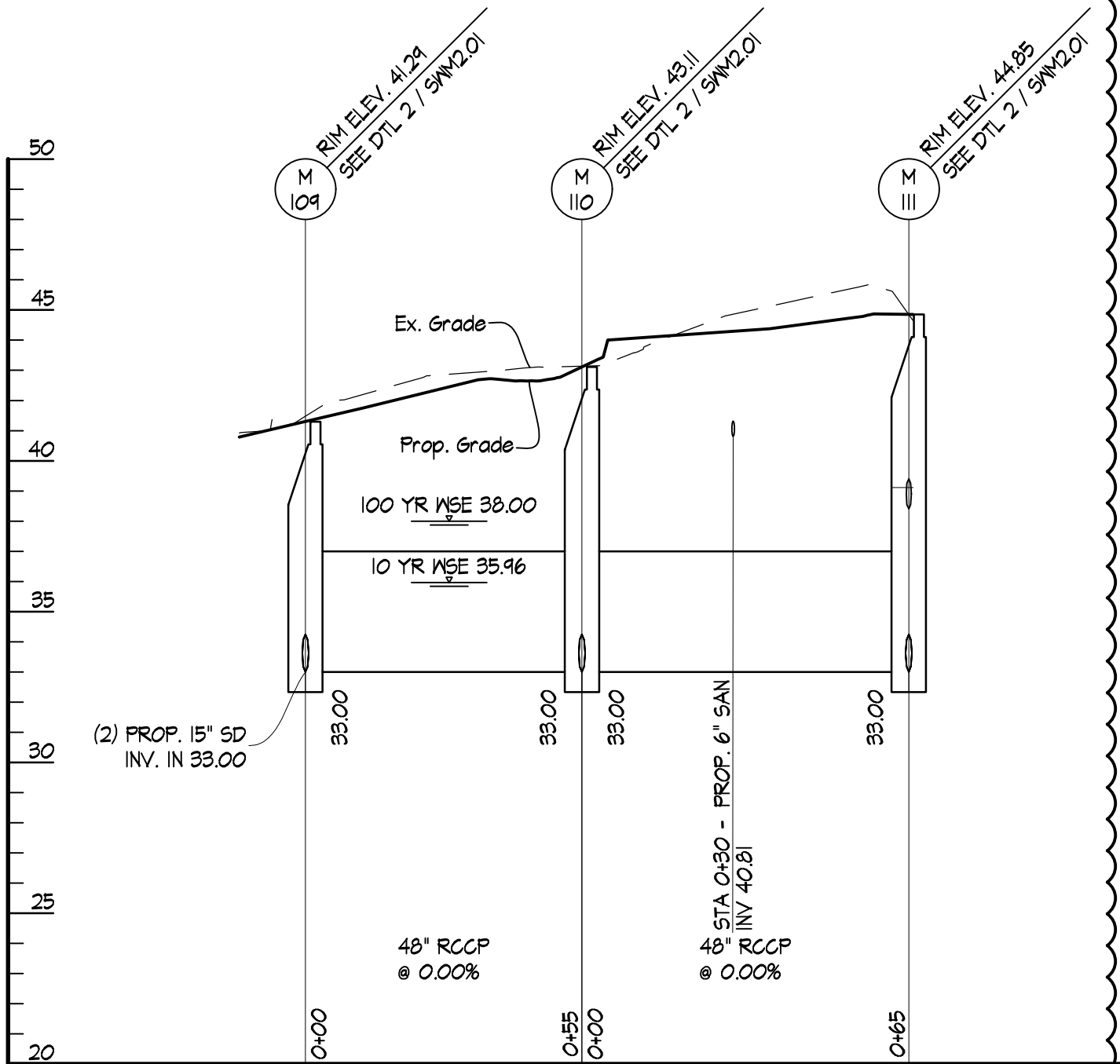
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3 OF 6

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3

STORAGE FACILITY PROFILE

SCALES: HORIZ. 1"
VERT. 1"

5



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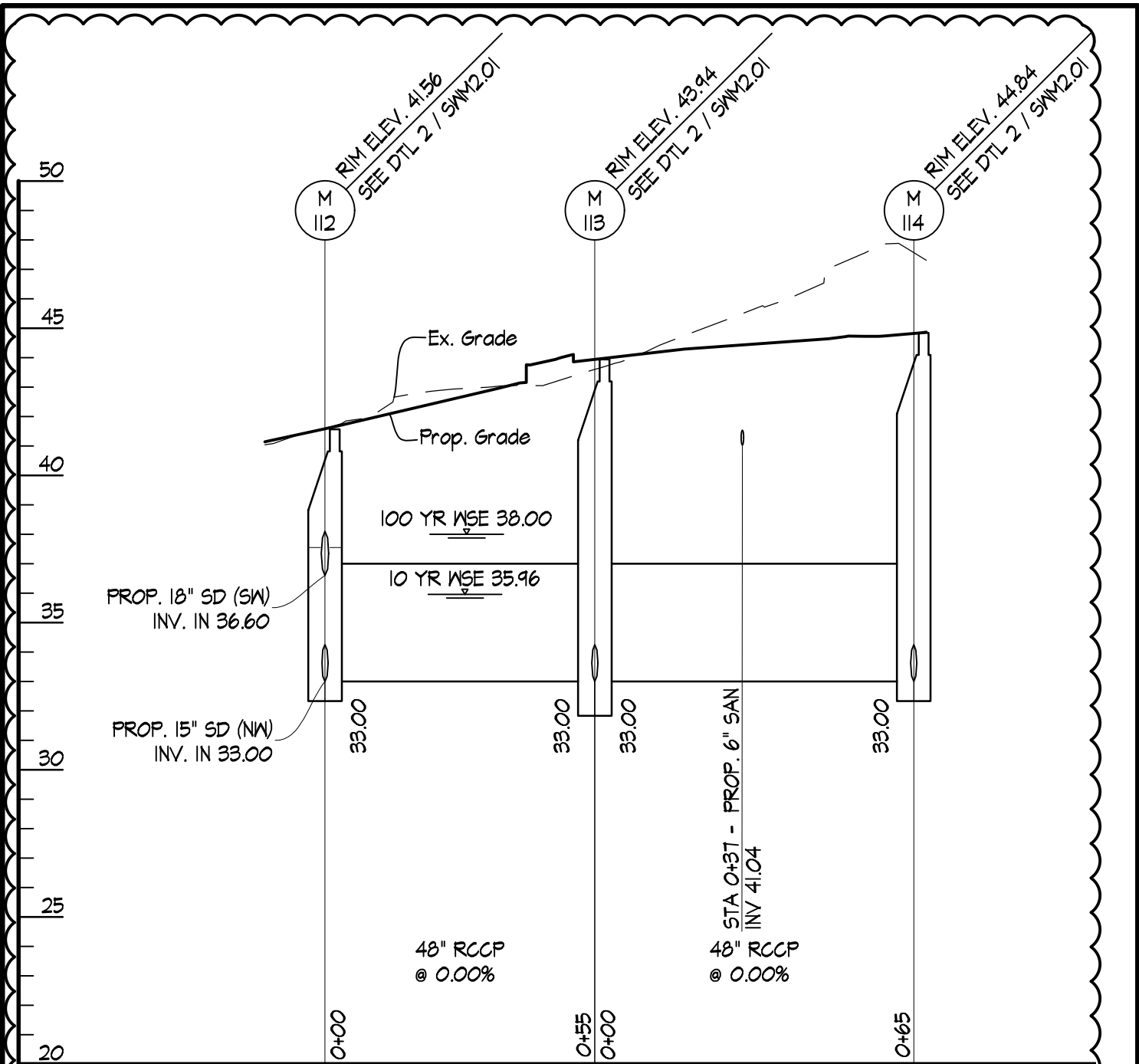
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Date: 12/13/16

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Z:\15115098-BCPS Victory Villa ES\04-DWG\PH 2 SWM 2.04 - Storage Profiles.dwg-ADD 5-5 Dec.13. 2016 07:08pm rsw



4

STORAGE FACILITY PROFILE

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



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M&D Proj.#: 15123

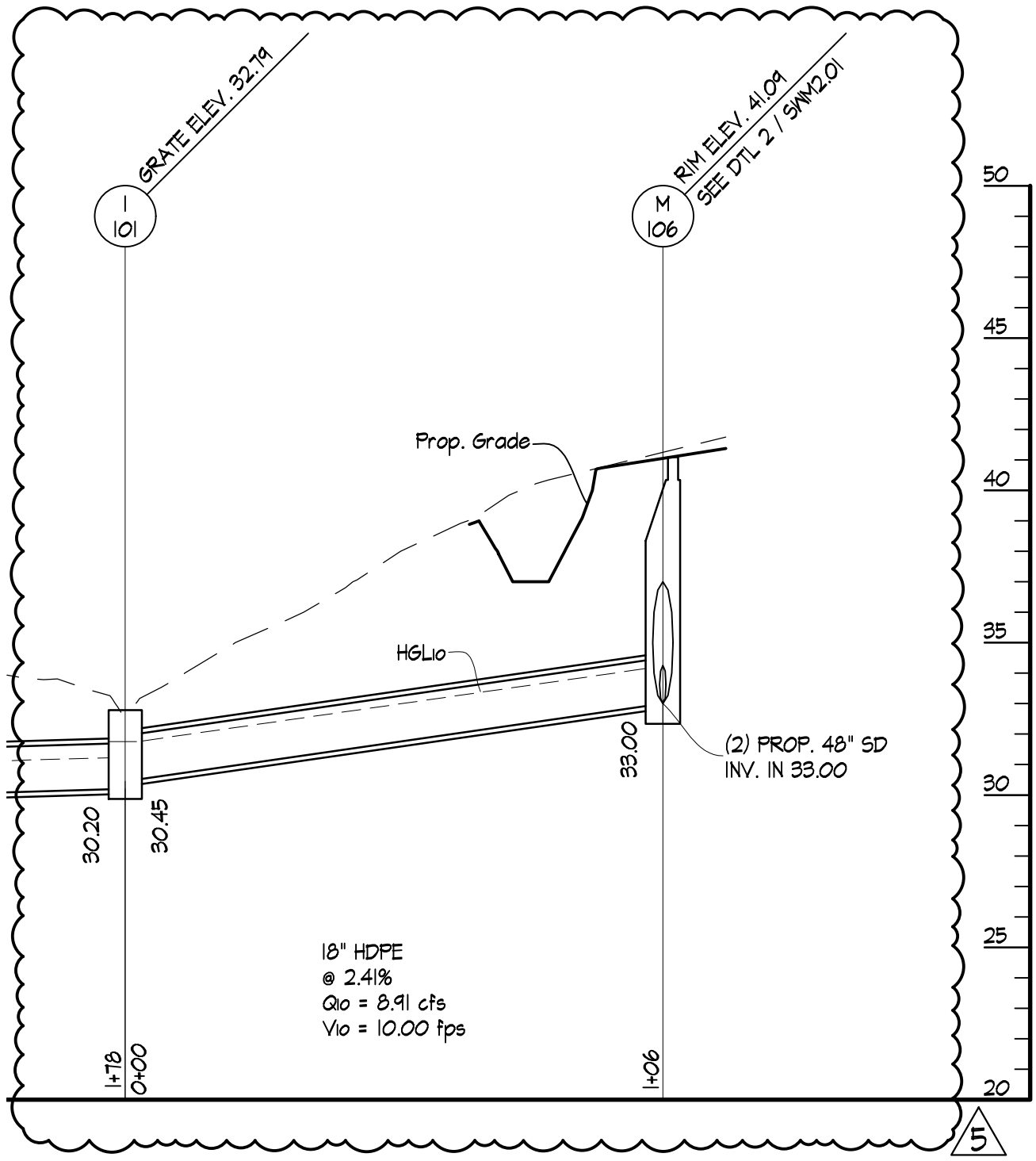
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Date: 12/13/16

5 OF 6

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SCALE: HORIZ 1" = 20'



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SWM2.04

M&D Proj.#: 15123

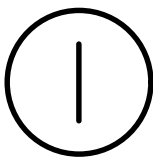
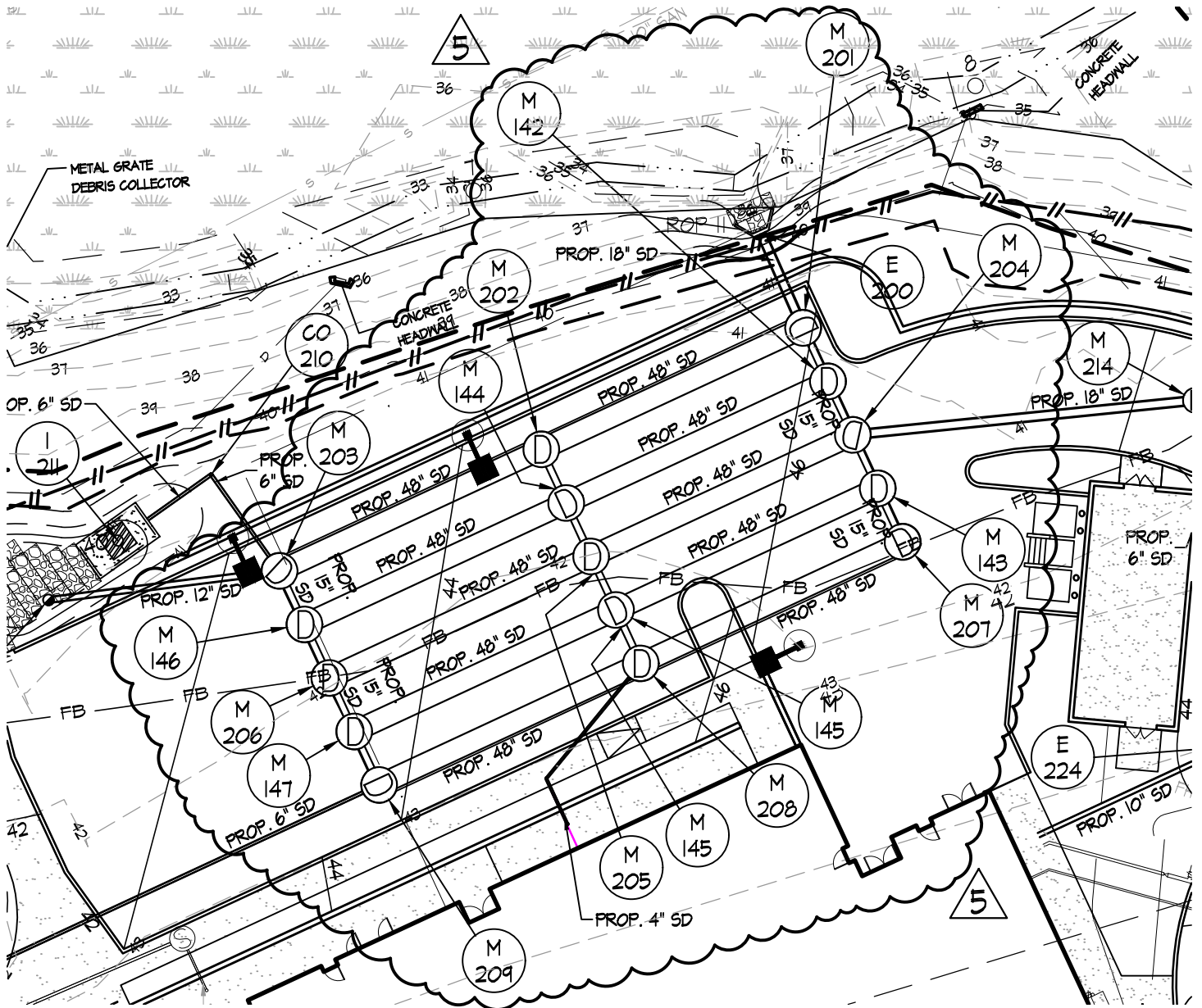
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Checked By: FPB

Date: 12/13/16

6 OF 6

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STORAGE FACILITY #2

SCALE: 1" = 30'



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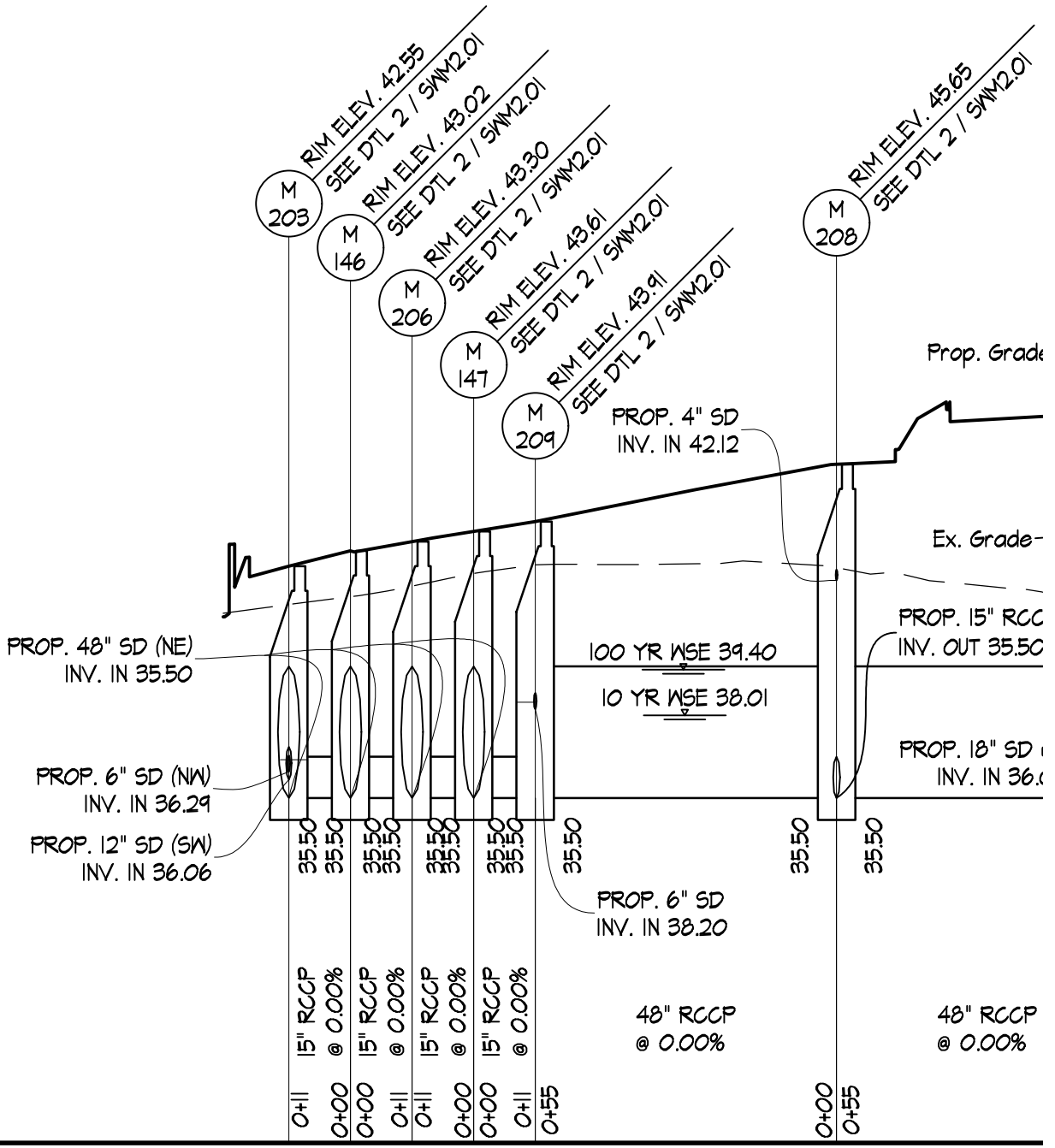
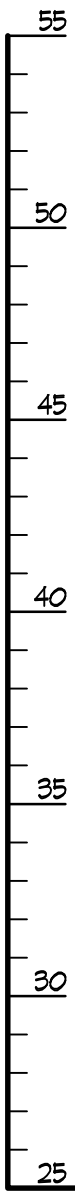
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1 OF 5

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2 STORAGE FACILITY & OUTFALL PRC

SEE SHEET 3 OF 5 FOR CONTINUATION



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SWM2.05

M&D Proj.#: 15123

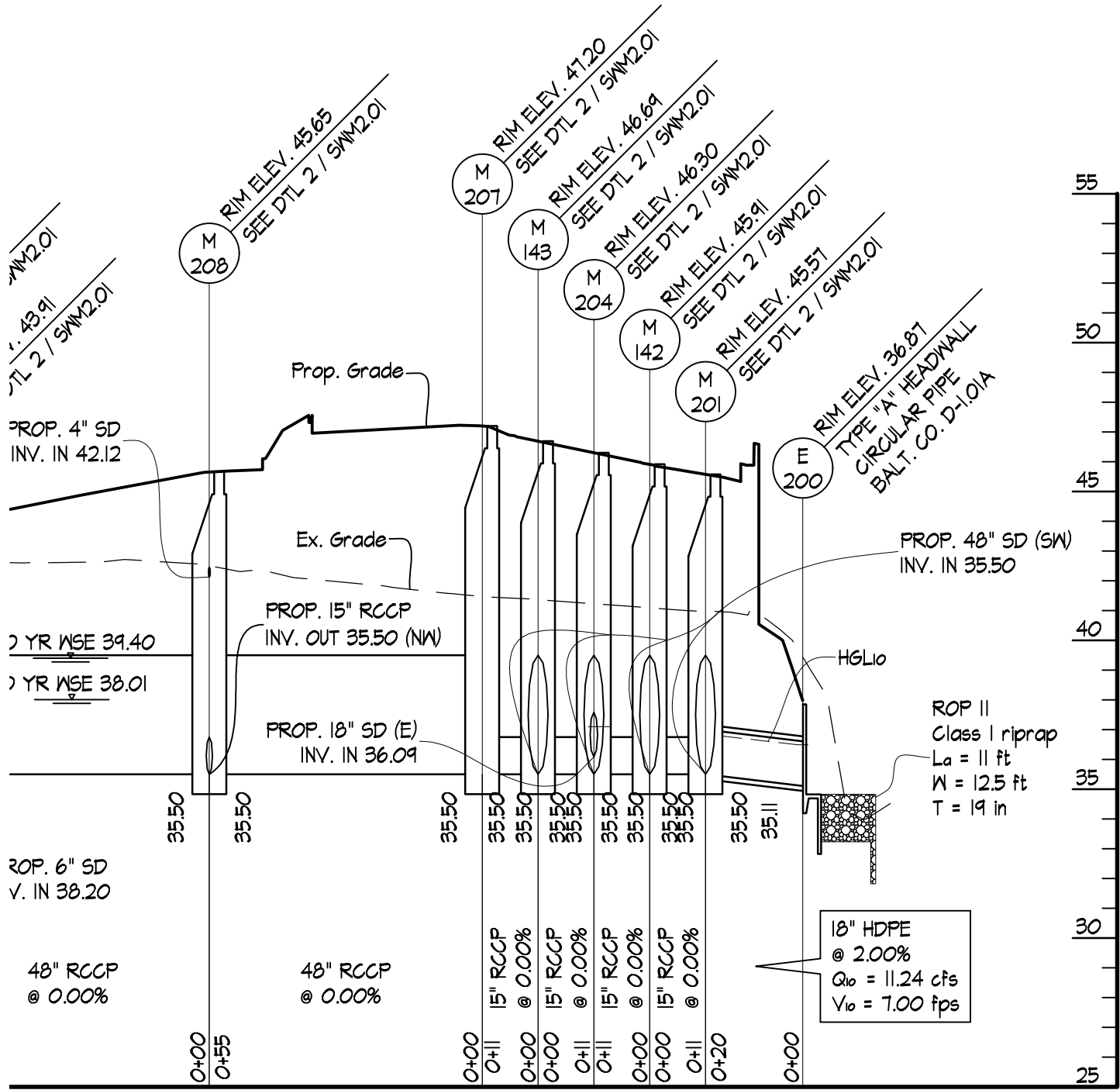
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2 OF 5

Z:\1515098-BCPS Victory Villa ES\04-DWG\PH 2 SWM 2.05 - Storage Profiles.dwg-ADD 5-3 Dec 13, 2016 05:36pm rsw



OUTFALL PROFILE

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



SEE SHEET 2 OF 5
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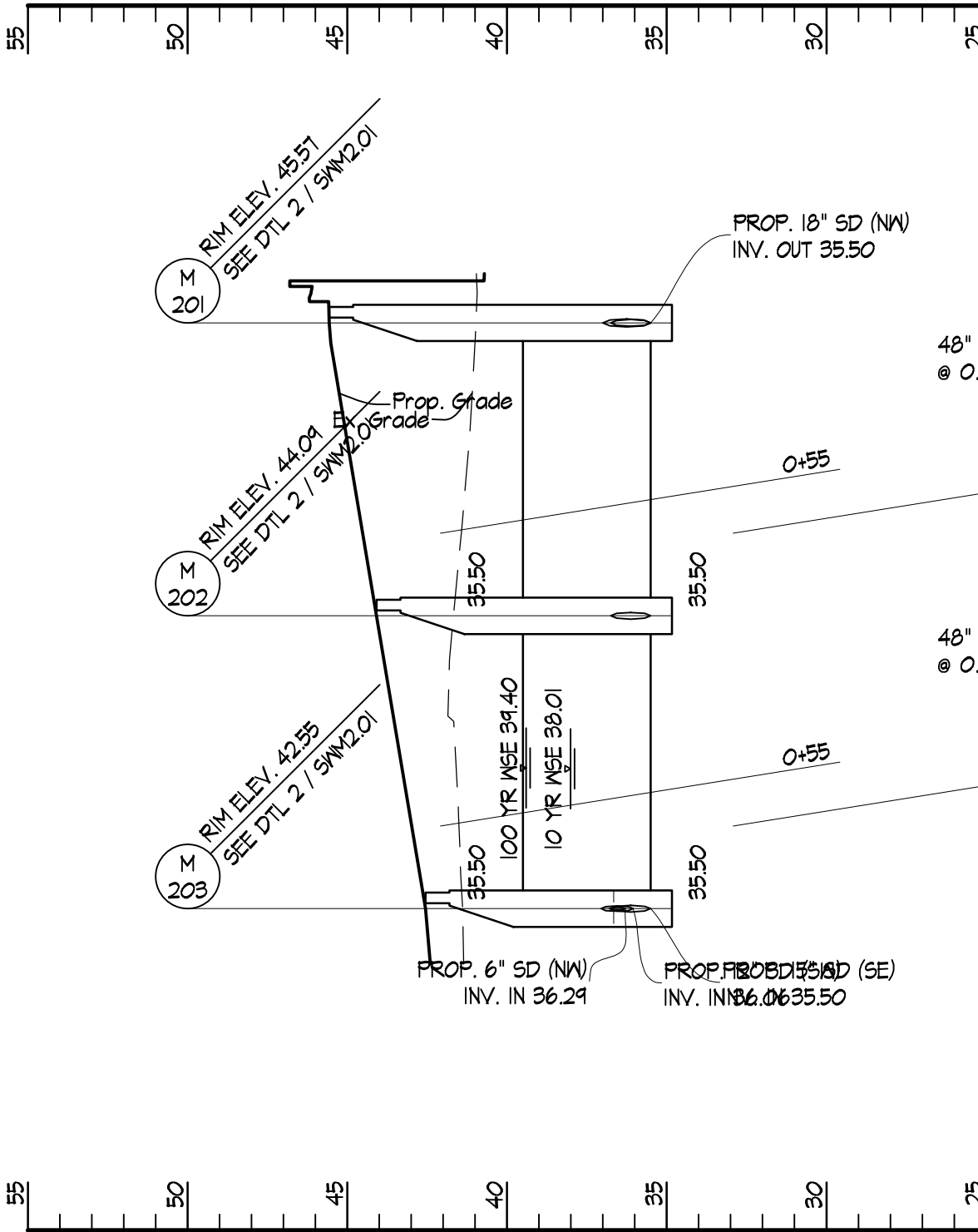
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3 OF 5

Z:\1515098-BCPS Victory Villa ES\04-DWG\PH 2 SWM 2.05 - Storage Profiles.dwg-ADD 5-4 Dec. 13, 2016 05:43pm rsw

5



STORAGE FACILITY PROFILE

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'

3



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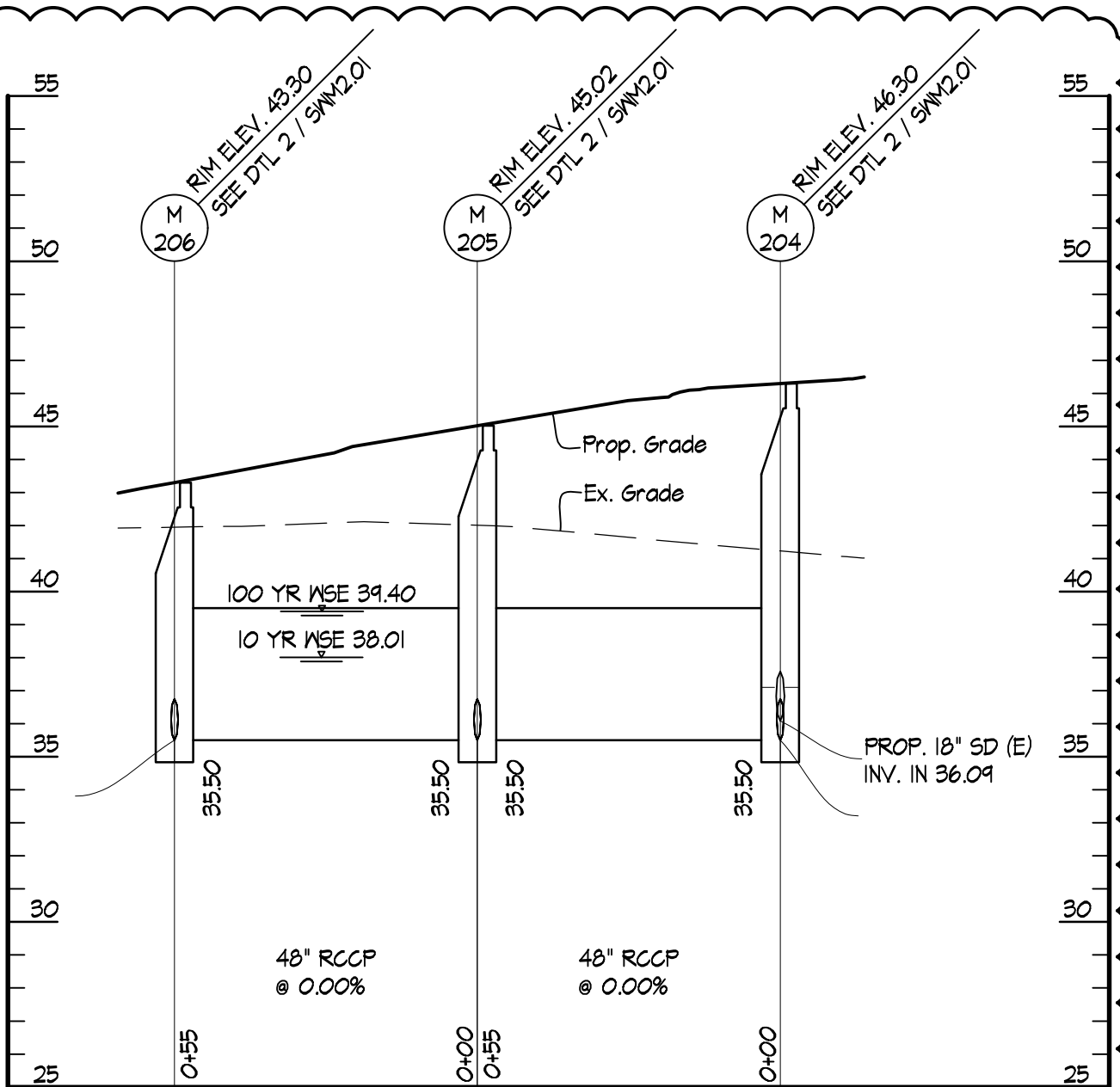
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4 OF 5

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4 STORAGE FACILITY PROFILE

SCALES: HORIZ. 1" = 30'
VERT. 1" = 5'



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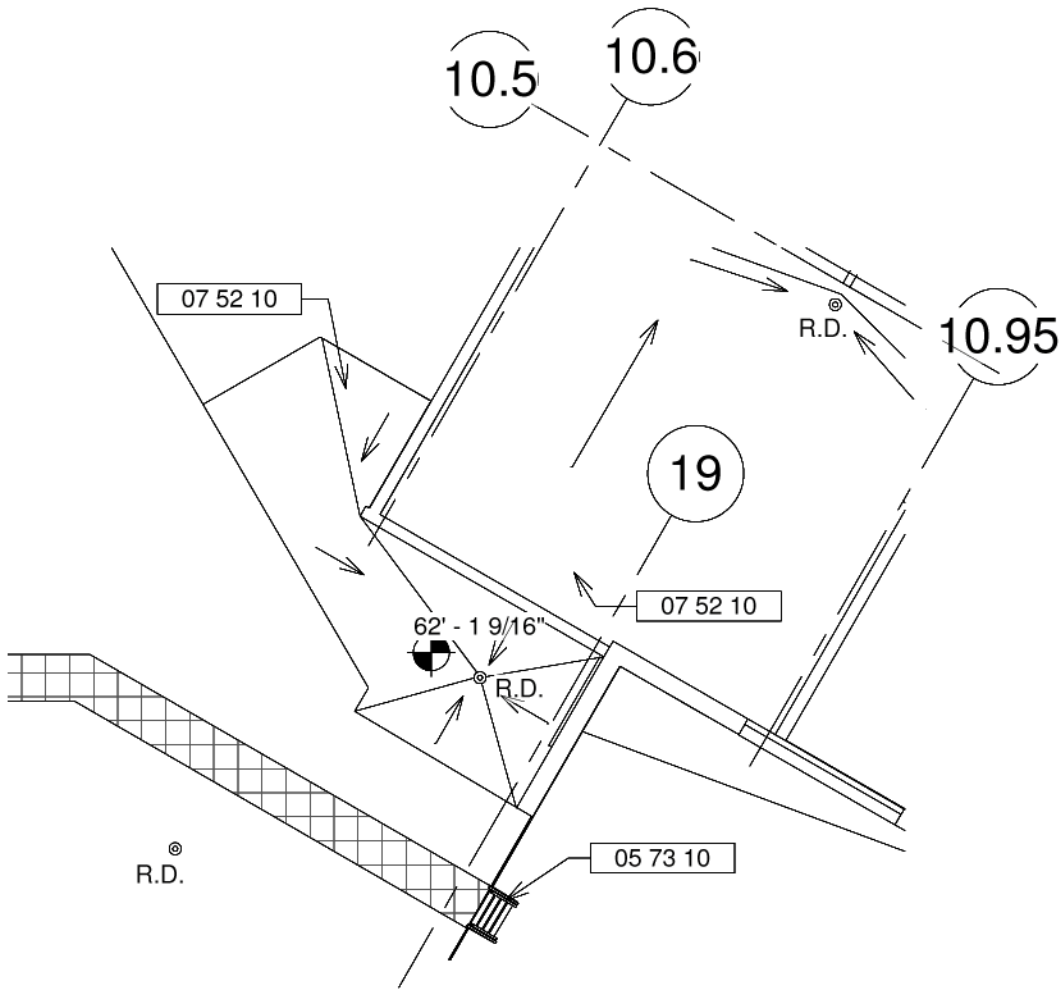
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Checked By: FPB

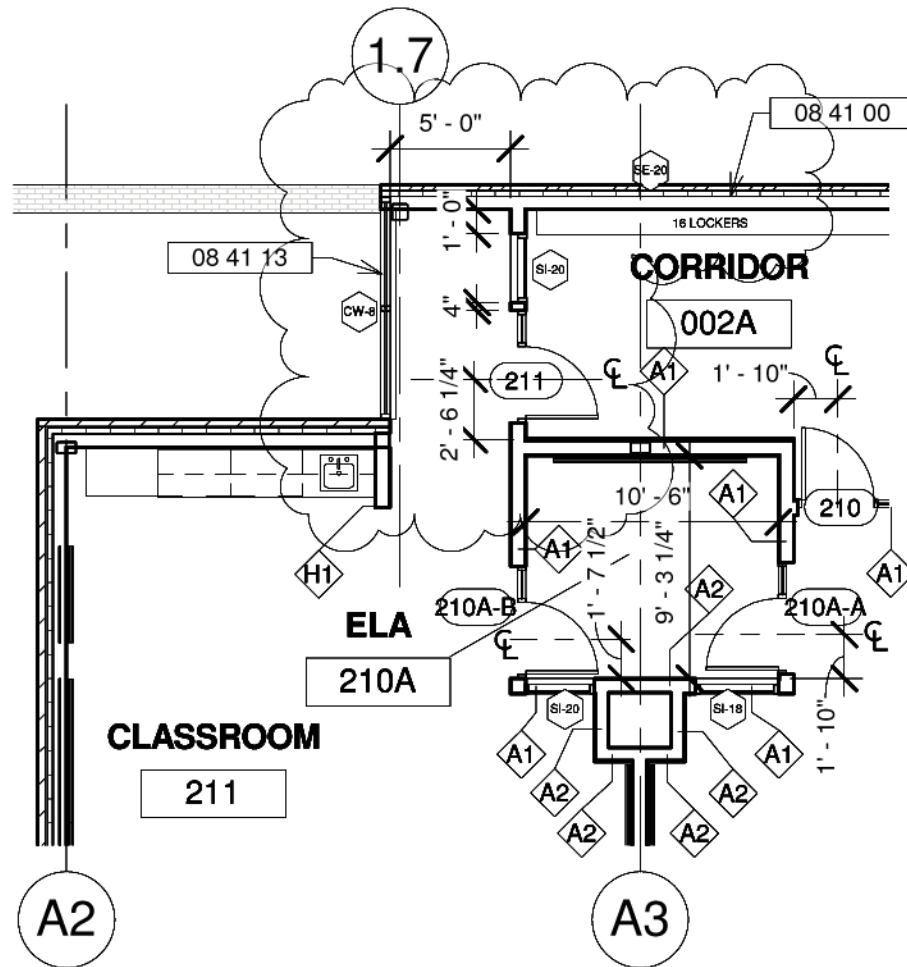
Date: 12/13/16

5 OF 5



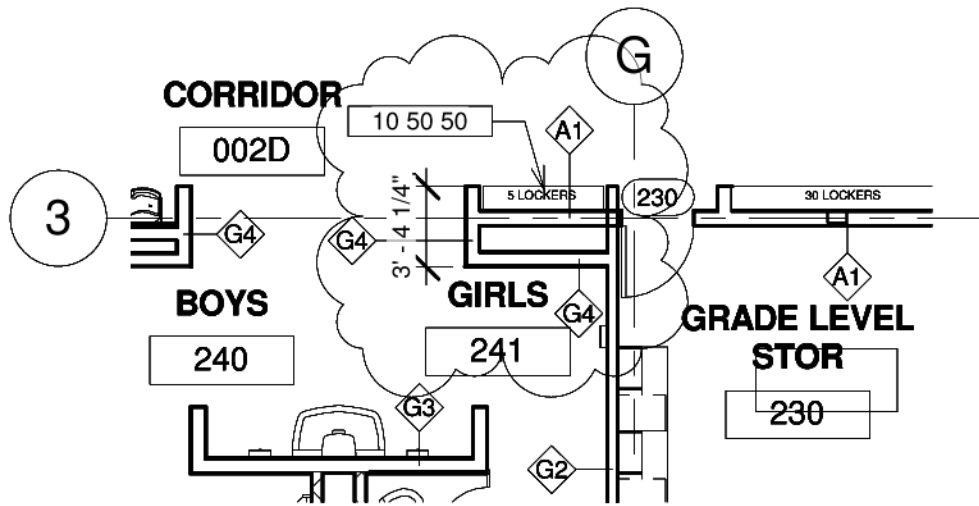
① ROOF PLAN
 1/16" = 1'-0"

		BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND		SUBMISSION: ADDENDUM #5 A1.03 1 OF 1			
M&D Proj.#:	15123	Drawn By:	BPG	Checked By:	BRJ	Date:	12/13/2016



1 ENLARGED SECOND FLOOR PLAN - REV.
 1/8" = 1'-0"

	BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND	SUBMISSION: ADDENDUM #5 A1.06		
M&D Proj.#: 15123	Drawn By: BPG	Checked By: BRJ	Date: 12/13/2016	1 OF 2



1 ENLARGED SECOND FLOOR PLAN - REV. 2
 1/8" = 1'-0"

Murphy & Dittenhafer
 ARCHITECTS

BALTIMORE COUNTY PUBLIC SCHOOLS
 VICTORY VILLA ELEMENTARY SCHOOL
 BALTIMORE, MARYLAND

SUBMISSION:
 ADDENDUM #5

A1.06

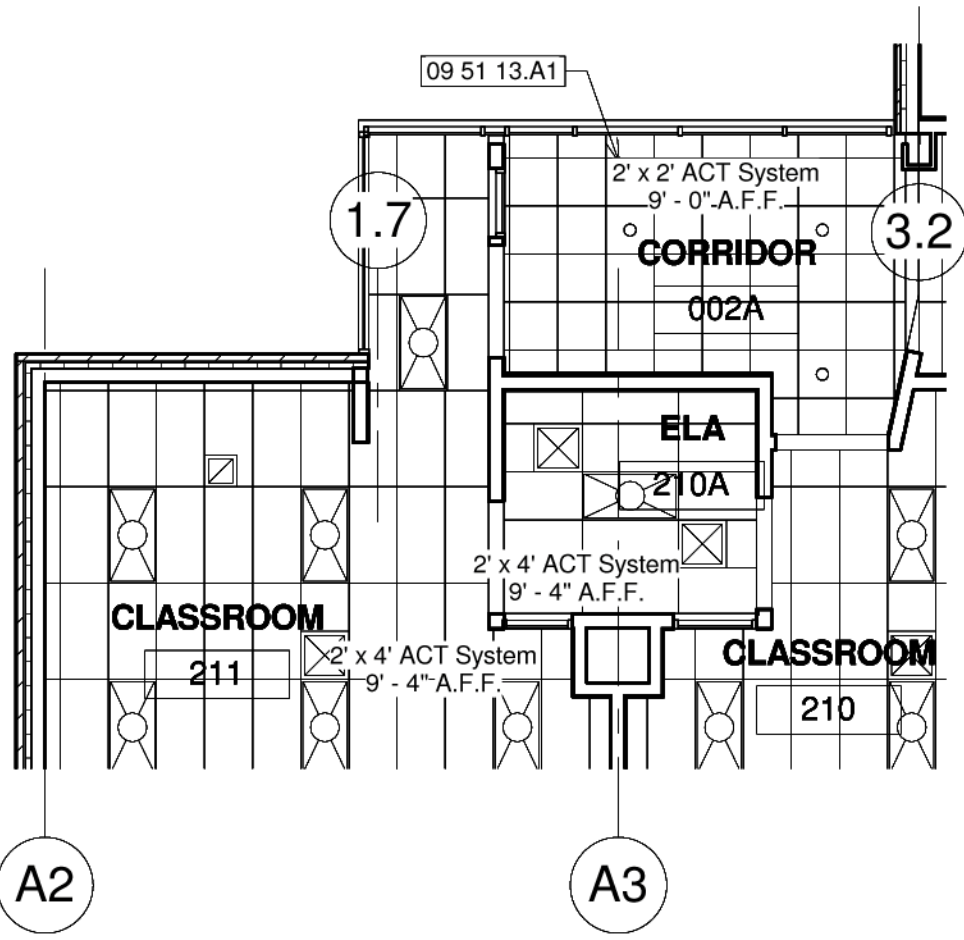
M&D Proj.#: 15123

Drawn By: BPG

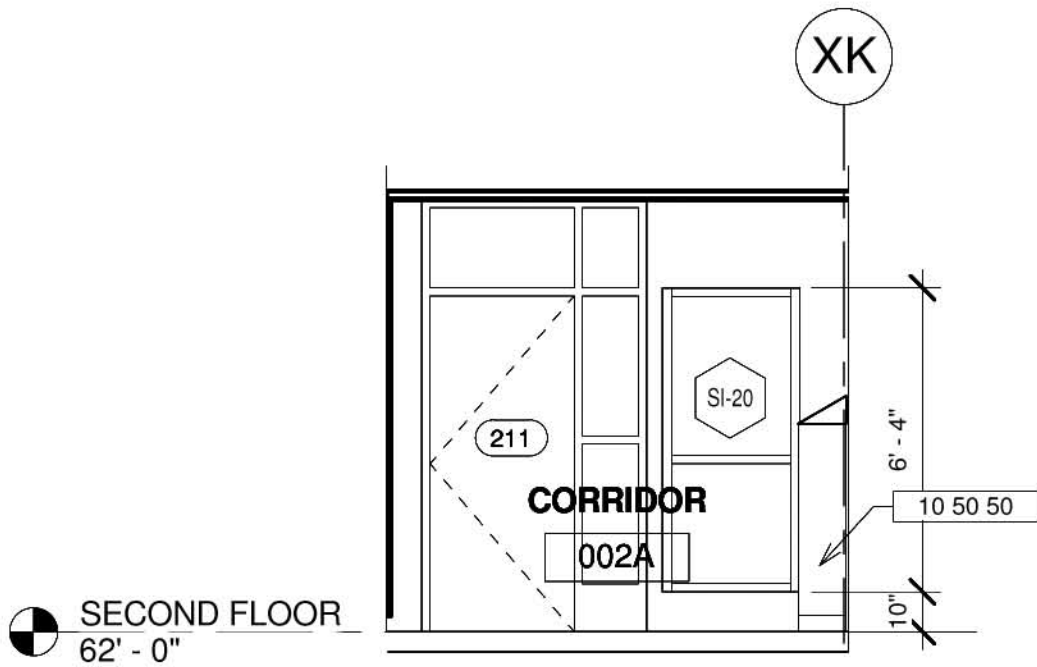
Checked By: BRJ

Date: 12/13/2016

2 OF 2



1 ENLARGED SECOND FLOOR RCP - A - REV.
 1/8" = 1'-0"




SECOND FLOOR
 62' - 0"

⑦ **CORRIDOR 002A - WEST INT. ELEV.**
 1/4" = 1'-0"

Murphy & Dittenhafer
A R C H I T E C T S

BALTIMORE COUNTY PUBLIC SCHOOLS
VICTORY VILLA ELEMENTARY SCHOOL
 BALTIMORE, MARYLAND

SUBMISSION:
 ADDENDUM #5

A4.07.4

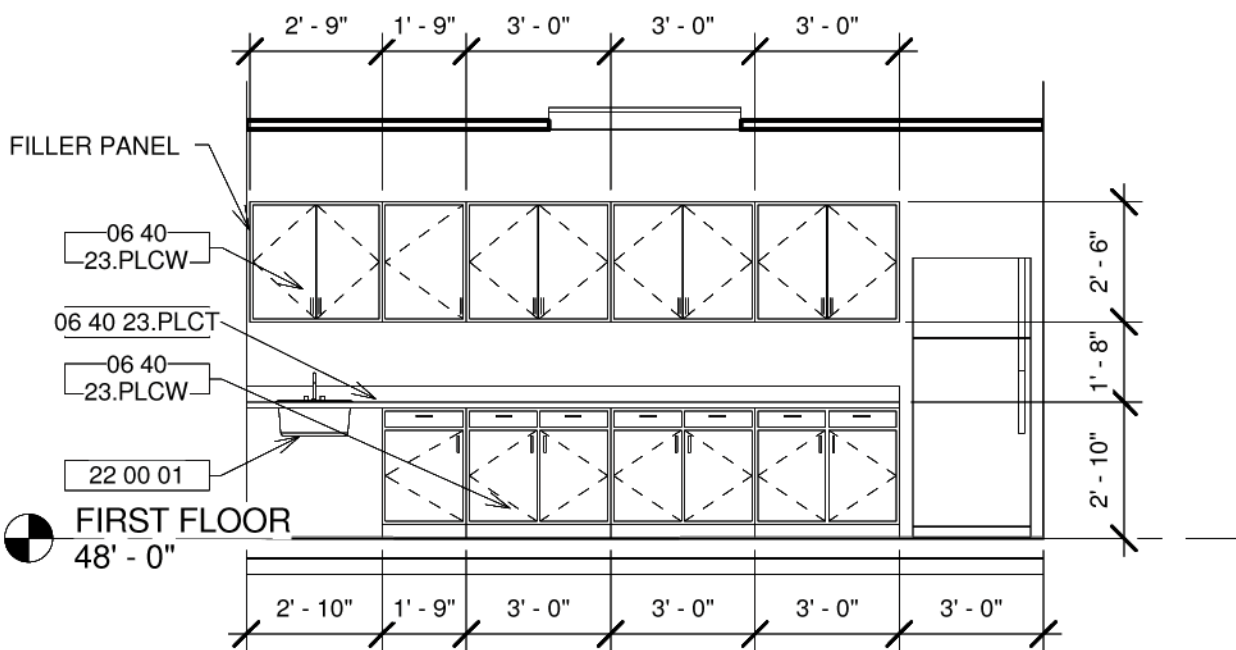
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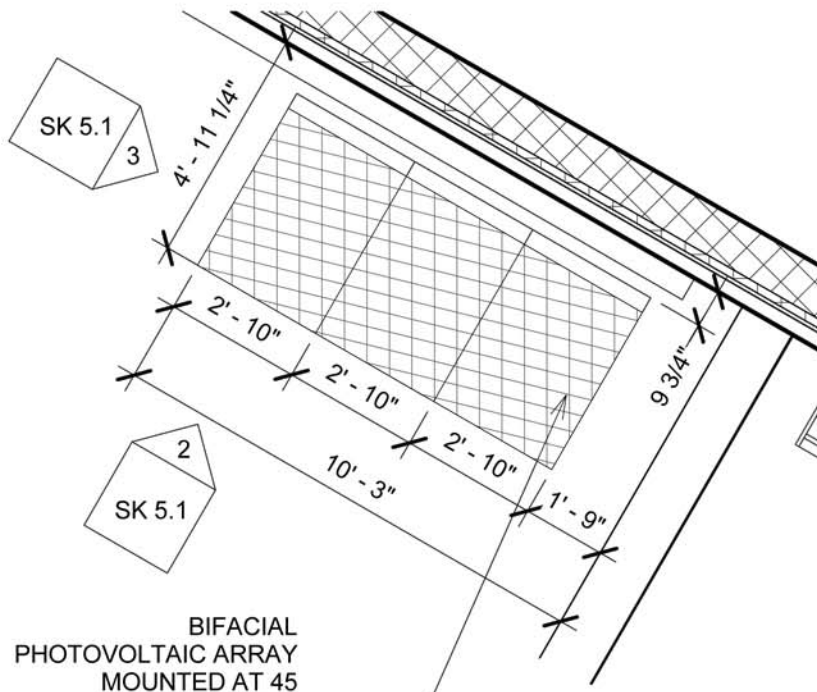
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Date: 12/13/2016

1 OF 1



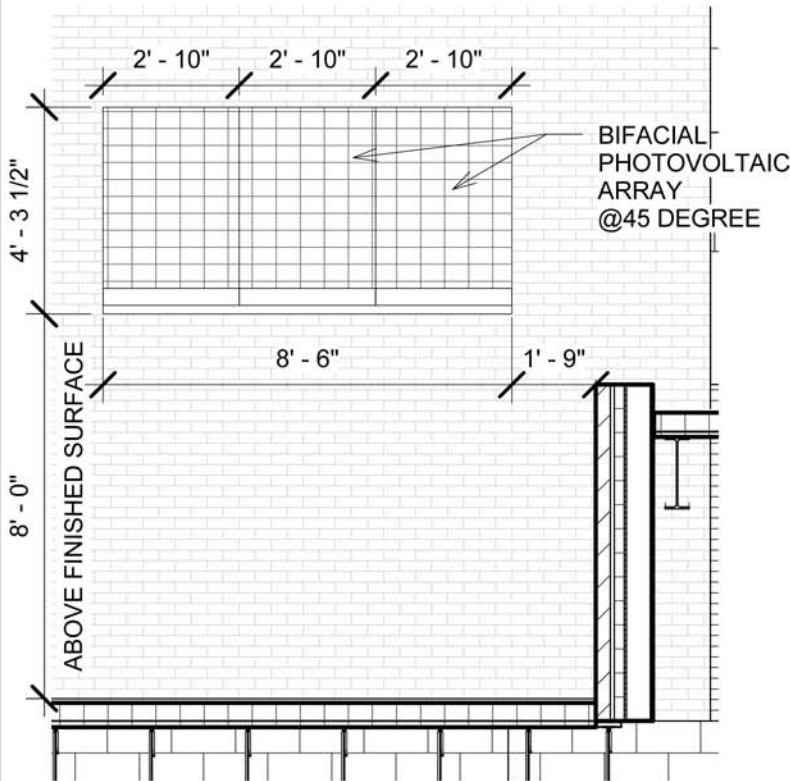
1 CONDIMENT 147E INT. ELEVATION
 1/4" = 1'-0"



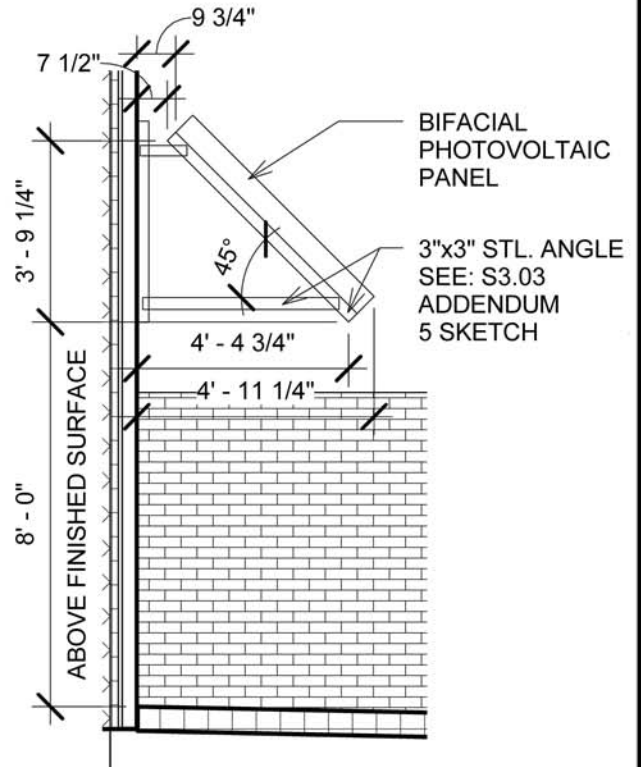
BIFACIAL PHOTOVOLTAIC ARRAY MOUNTED AT 45 DEGREE ANGLE ON STL. ANGLES

SOLAR ARRAY PLAN ADD ALTERNATE 1 (REPLACEMENT)

① 1/4" = 1'-0"

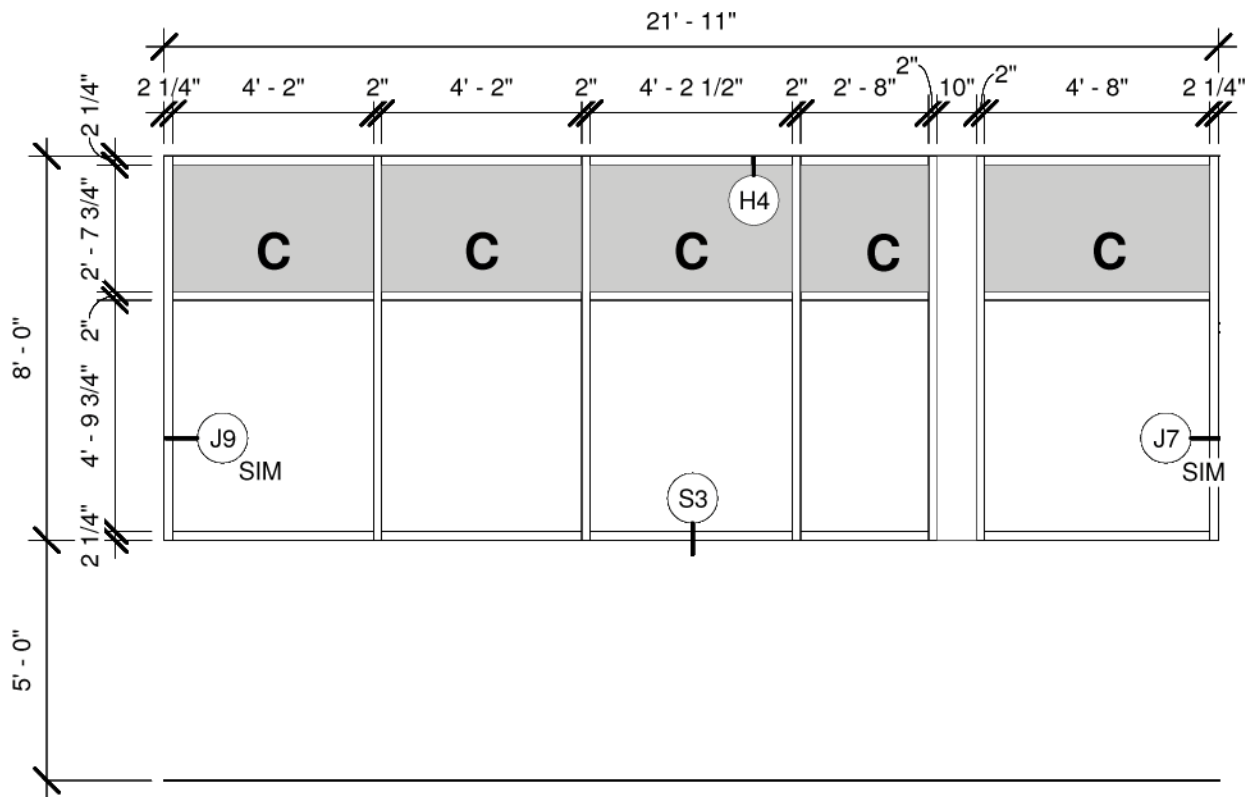


② SOLAR ARRAY ELEVATION 1/4" = 1'-0"



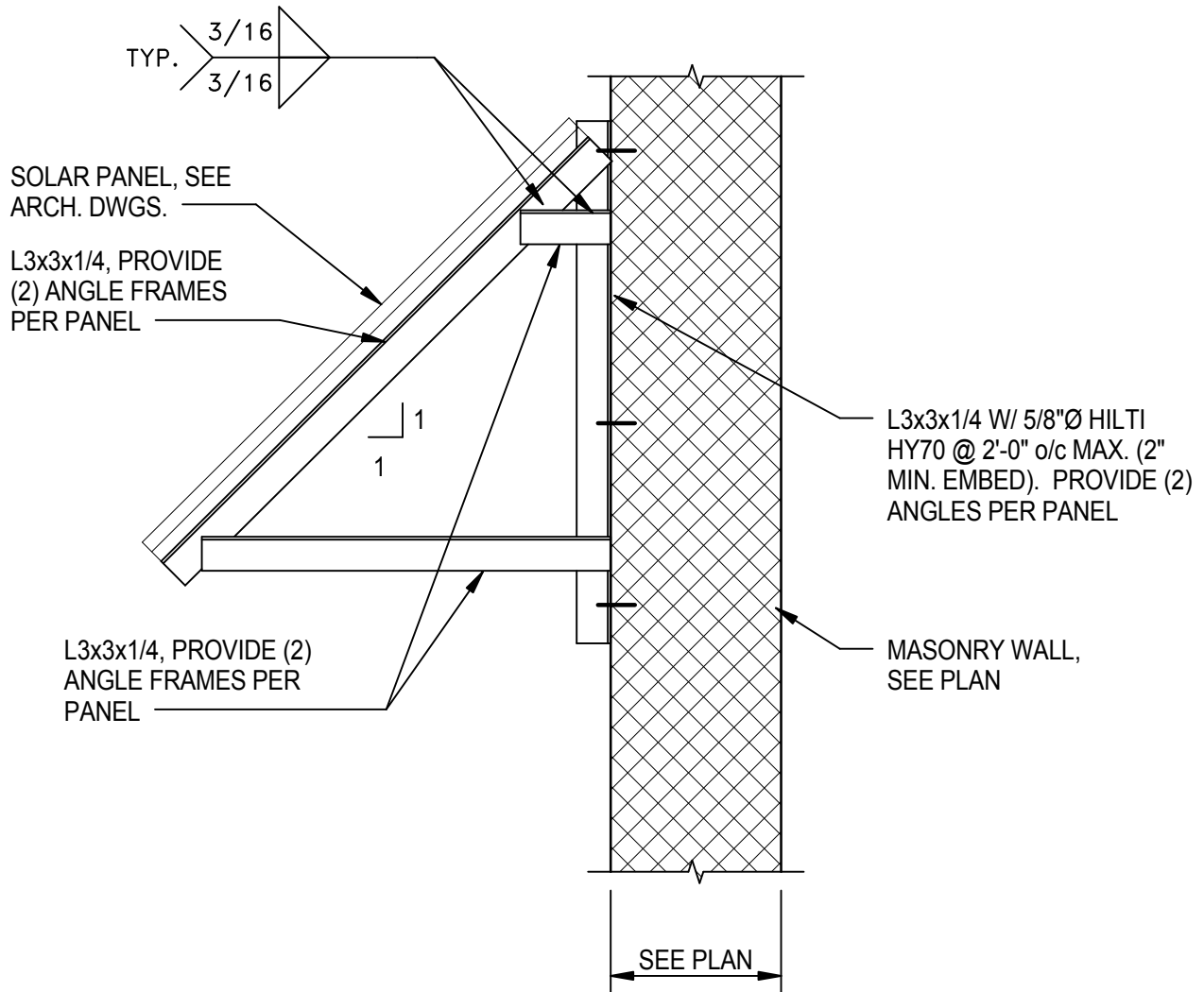
③ SOLAR ARRAY ELEVATION 1/4" = 1'-0"

		BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND		SUBMISSION: ADDENDUM#5 A5.04 1 OF 1
M&D Proj.#: 15123	Drawn By: MBD	Checked By: BRJ	Date: 12/13/2016	



① STOREFRONT - SE-20
 1/4" = 1'-0"

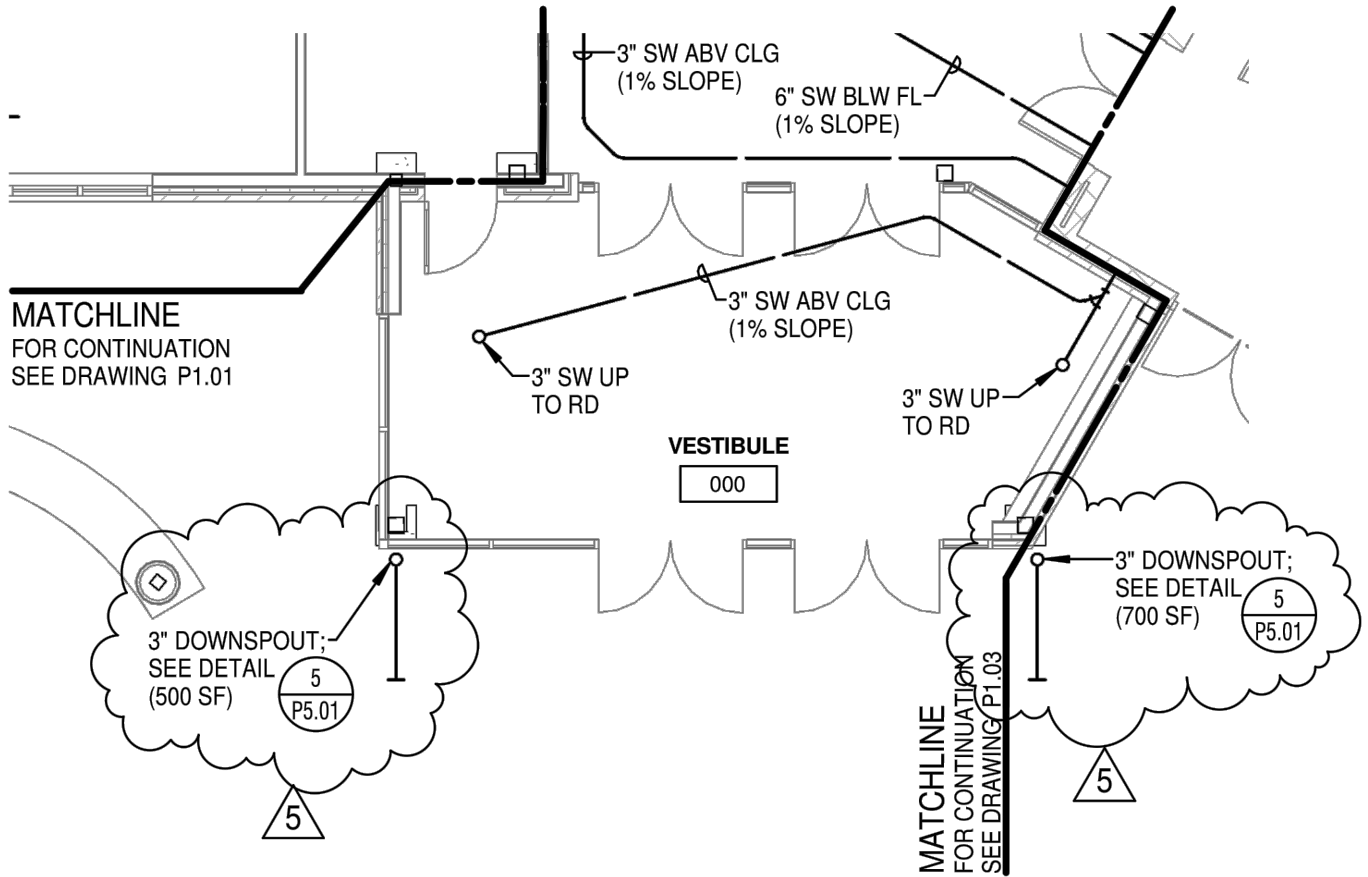
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	M&D Proj.#: 15123	Drawn By: BPG	Checked By: BRJ
Date: 12/13/2016			



TYPICAL SOLAR PANEL ATTACHMENT TO MASONRY

WALL
 3/4" = 1'-0"
 1 SKS-04 6 S3.03

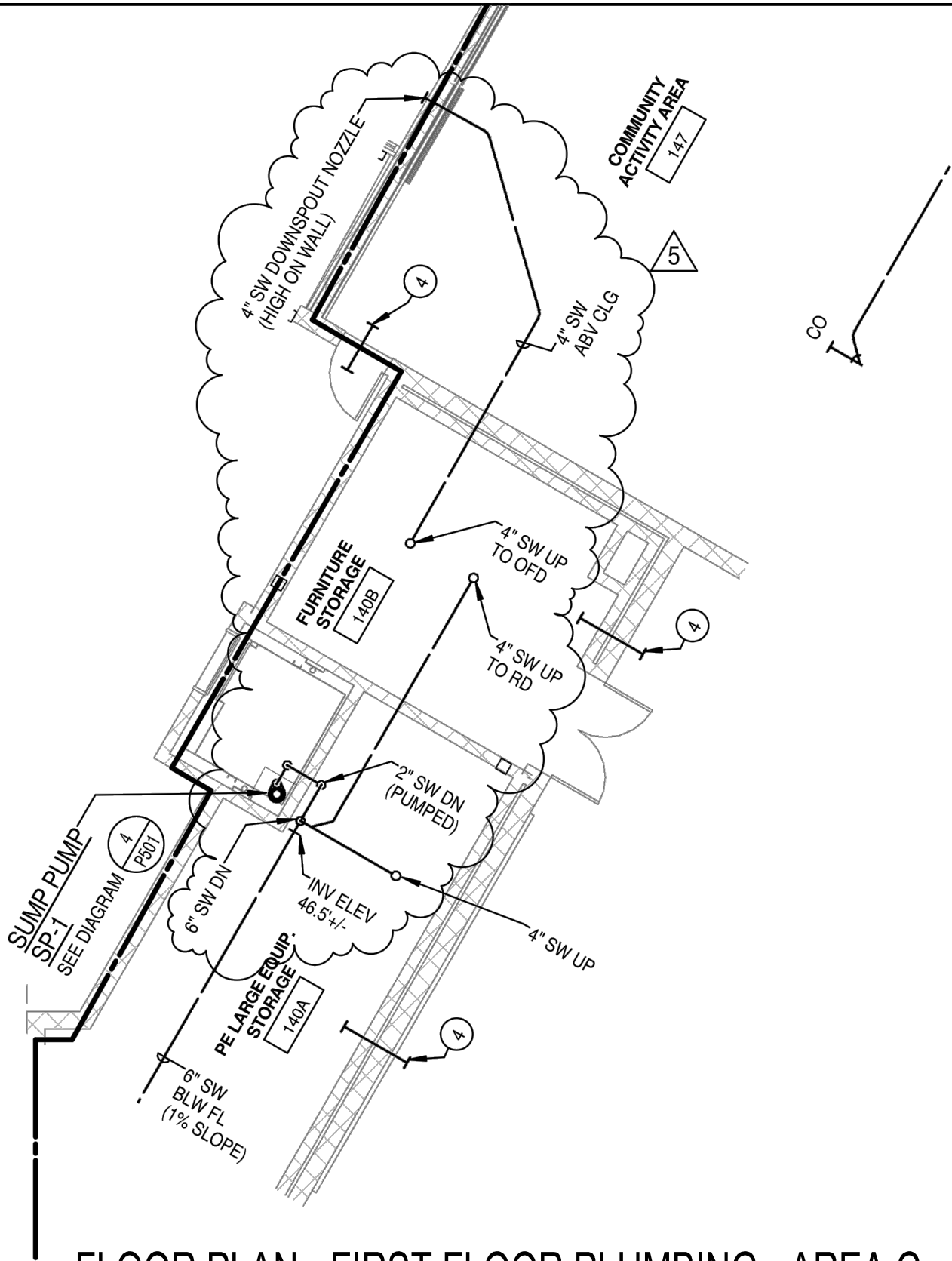
		BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND		SUBMISSION: ADDENDUM #5 S3.03
<small>800 North Charles Street, Baltimore, Maryland 21201 410-625-4823 voice 410-625-1874 fax</small>	<small>226 West Market Street, York, Pennsylvania 17401 717-838-9827 voice 717-838-2449 fax</small>	M&D Proj.#: 15123	Drawn By: KLC	Checked By: KMM
			Date: 12.13.2016	1 OF 1



FLOOR PLAN - FIRST FLOOR PLUMBING - AREA B

SCALE 1/8"=1'-0"

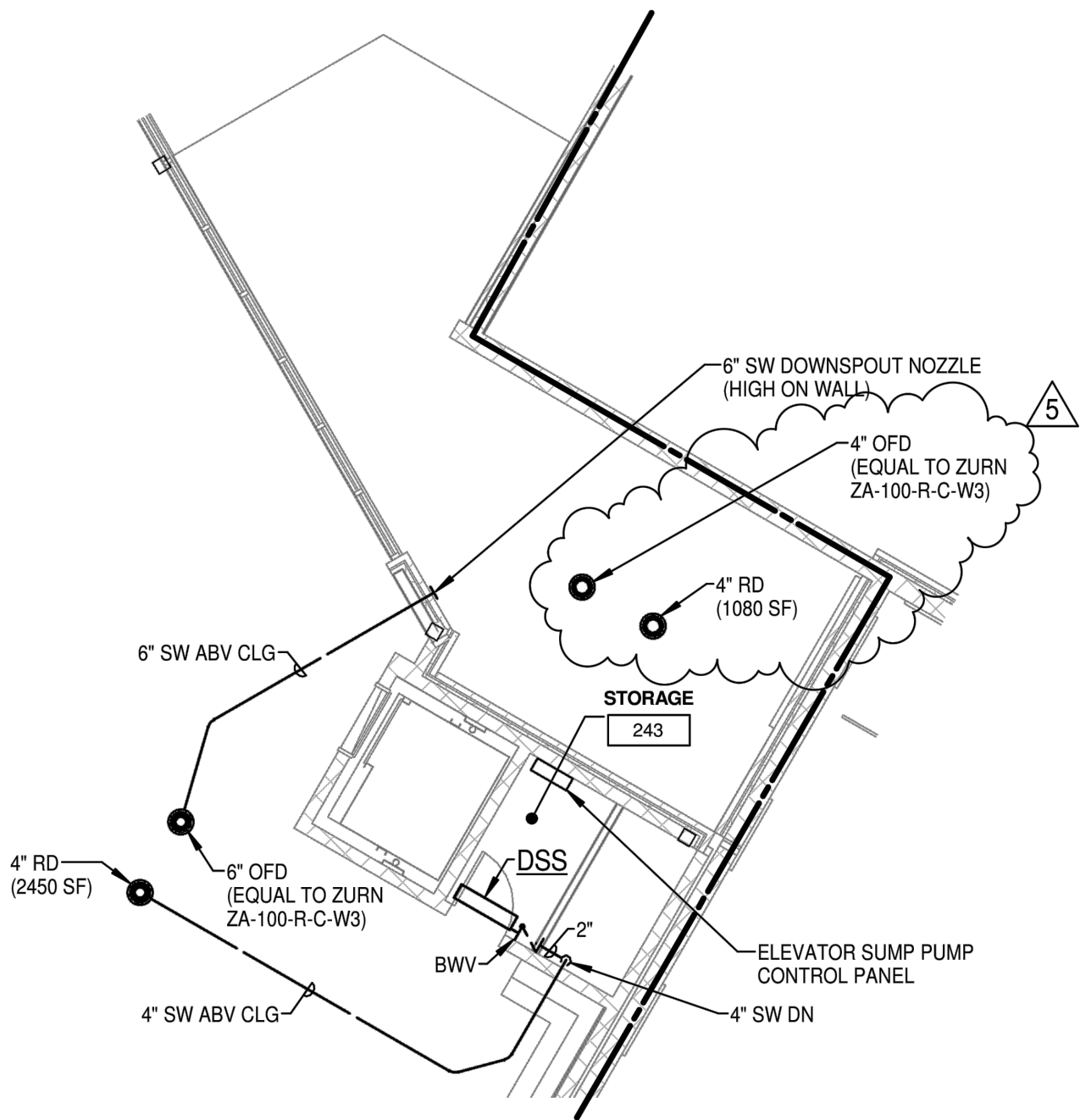
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M&D Proj.#: 15123	Drawn By: TG	Checked By: DG	Date: 12-13-16	1 OF 1



FLOOR PLAN - FIRST FLOOR PLUMBING - AREA C

SCALE 1/8"=1'-0"

<p><i>Murphy & Dittenhafer</i> ARCHITECTS</p>		<p>BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND</p>		<p>SUBMISSION: ADDENDUM #5 P1.03 1 OF 1</p>
<p>M&D Proj.#: 15123</p>	<p>Drawn By: TG</p>	<p>Checked By: DG</p>	<p>Date: 12-13-16</p>	



FLOOR PLAN - SECOND FLOOR PLUMBING - AREA B

SCALE 1/8"=1'-0"

		BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND		SUBMISSION: ADDENDUM #5 P1.05 1 OF 1
M&D Proj.#: 15123	Drawn By: TG	Checked By: DG	Date: 12-13-16	

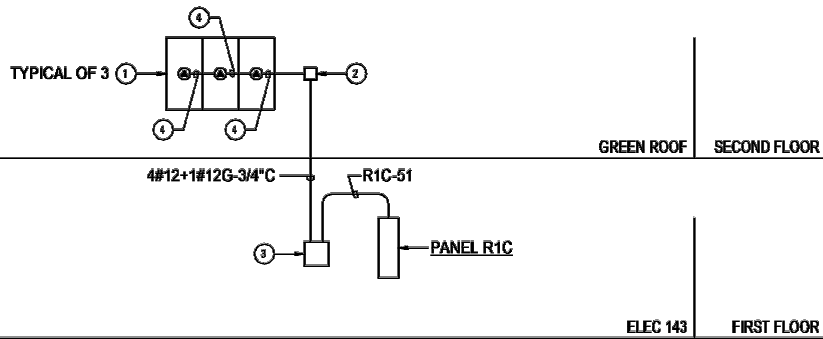
4
E5.07

DETAIL
EMERGENCY SHUTOFF SWITCH
NOT TO SCALE

△

SPECIFIC NOTES (SOLAR LAB):

- ① **PV MODULE:** PROVIDE PANASONIC MODEL HIT DOUBLE 225 OR EQUAL.
- ② **MICROINVERTER:** PROVIDE ENPHASE MODEL M215 OR EQUAL.
- ③ **MONITORING MODULE:** PROVIDE EFERGY MODEL ENGAGE HUB SOLO ENERGY DATA GATEWAY (3Ø SYSTEM) OR EQUAL. PROVIDE REQUIRED MONITORING SYSTEM COMPONENTS IN NEMA 1 ENCLOSURE EQUAL TO HOFFMAN CONTINUOUS HINGE SERIES.
- ④ PROVIDE 2#12 TYPE USE-2 CABLE.



7
E5.07

DIAGRAM
SOLAR LAB
NO SCALE

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BALTIMORE, MARYLAND

SUBMISSION:
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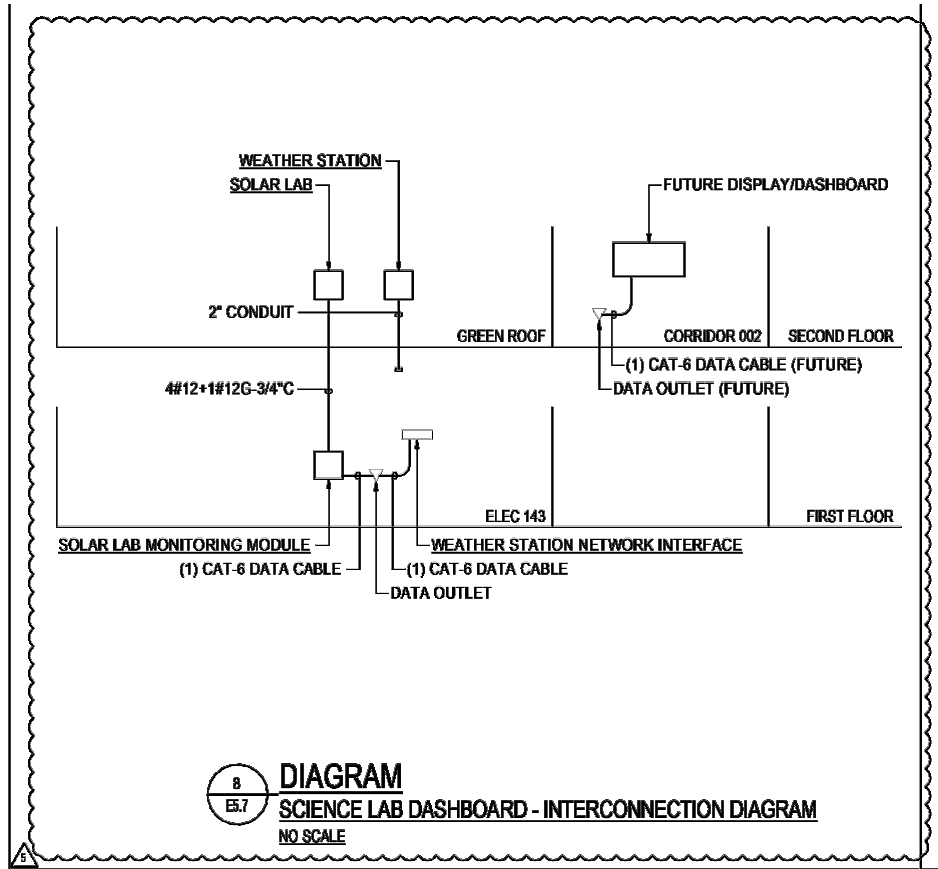
M&D Proj.#: 15123

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BALTIMORE, MARYLAND

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E5.07

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Drawn By: MG

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2 OF 2

WIRING PANEL SCHEDULE R1C

120/208 VOLTS		3 PHASE 4 WIRE						225 AMP MAINS			SURFACE			
CIR-CUIT	DESCRIPTION	WIRE/ CONDUIT	POLE	AMP	A	B	C	AMP	POLE	WIRE/ CONDUIT	DESCRIPTION	CIR-CUIT		
1	REC ELEC 143	#12-3/4"C	1	20 A	0.7	0.9		20 A	1	#8-3/4"C	REC GYMNASIUM 140	2		
3	REC MECH 144	#12-3/4"C	1	20 A		0.9	0.4		20 A	1	#8-3/4"C	REC GYMNASIUM 140	4	
5	REG CORRIDOR 005	#12-3/4"C	1	20 A				1.5	0.5	20 A	1	#8-3/4"C	REC GYMNASIUM 140	6
7	REG CORRIDOR 005	#10-3/4"C	1	20 A	0.7	0.5				20 A	1	#10-3/4"C	MOTORIZED SHADES	8
9	REC EWC "NOTE 1"	#8-3/4"C	1	20 A		0.5	0.5			20 A	1	#10-3/4"C	MOTORIZED SHADES	10
11	REC TOILET 136C	#8-3/4"C	1	20 A				0.7	0.7	20 A	1	#10-3/4"C	REC CAFETERIA 141	12
13	REC BSO 146	#8-3/4"C	1	20 A	0.7	0.5				20 A	1	#10-3/4"C	REC CAFETERIA 141	14
15	REC FACULTY LOUNGE 136	#10-3/4"C	1	20 A		0.4	0.9			20 A	1	#8-3/4"C	REC PE INST. 148	18
17	REC CUST SUPPORT 145	#12-3/4"C	1	20 A				0.9	0.7	20 A	1	#8-3/4"C	REC PE INST. 140D	18
19	REC FACULTY 136 "NOTE 1"	#10-3/4"C	1	20 A	0.2	0.2				20 A	1	#8-3/4"C	REC EQUIP ENCLOSURE	20
21	REC INST. CLASSROOM 139	#12-3/4"C	1	20 A		0.4	0.5			20 A	1	#8-3/4"C	GENERATOR ACCESSORIES	22
23	REC INST. CLASSROOM 139	#12-3/4"C	1	20 A				0.5	5.0	20 A	1	#8-3/4"C	GENERATOR ACCESSORIES	24
25	REC VOCAL CLASSROOM 138	#10-3/4"C	1	20 A	0.7	2.0				30 A	1	#8-3/4"C	GEN BLOCK HEATER	26
27	REC FACULTY DINING 137	#10-3/4"C	1	20 A		1.0	0.5			20 A	1	#8-3/4"C	SCHOOL SIGN	28
29	REC FACULTY LOUNGE 136	#10-3/4"C	1	20 A				0.2	0.5	20 A	1	#12-3/4"C	P-5	30
31	DWH-1	#12-3/4"C	1	15 A	0.5	1.5				20 A	2	2#10-#10G-3/4"C	DSS-3	32
33	DWP-2	#12-3/4"C	1	15 A		0.2	1.5			20 A	2	2#10-#10G-3/4"C	DSS-7	34
35	EF-6	#12-3/4"C	1	15 A				0.2	1.5	20 A	2	2#10-#10G-3/4"C	DSS-7	36
37	EF-8	#12-3/4"C	1	15 A	0.2	1.5				20 A	2	2#10-#10G-3/4"C	DSS-7	38
39	EF-11	#12-3/4"C	1	15 A		0.2	0.7			20 A	2	2#10-#10G-3/4"C	MOTORIZED BACKBOARD	40
41	EF-12	#12-3/4"C	1	15 A				0.2	0.7	20 A	2	2#10-#10G-3/4"C	MOTORIZED BACKBOARD	42
43	UNIT HEATERS	#12-3/4"C	1	15 A	0.6	0.7				20 A	2	2#10-#10G-3/4"C	MOTORIZED BACKBOARD	44
45	CUH-B	#12-3/4"C	1	20 A		0.2	0.7			20 A	2	2#10-#10G-3/4"C	MOTORIZED BACKBOARD	46
47	VENDING - RM 136 "NOTE 1"	#10-3/4"C	1	20 A				0.2	0.8	20 A	2	2#10-#10G-3/4"C	MOTORIZED PARTITION	48
49	VENDING - RM 136 "NOTE 1"	#10-3/4"C	1	20 A	0.2	0.8				20 A	1	#8-3/4"C	REC CORRIDOR 001	50
51		4#12+ #12G- 3/4"C	3	20 A		0.2	0.5			20 A	1	#10-3/4"C	REC ROOF	52
53	SOLAR LAB				0.2	0.5		0.2	1.1	20 A	1	#10-3/4"C	REC ROOF	54
55										20 A	1	#10-3/4"C	REC EXTERIOR	56
57	SPARE					0.0	1.0			20 A	1	#10-3/4"C	GOAL HEIGHT ADJUSTOR	58
59	SPARE							0.0	0.5	20 A	1	#10-3/4"C	WEATHER STATION	60
61	SPARE				0.0	0.0				20 A	1	-	SPARE	62
63	SPARE					0.0	0.0			20 A	1	-	SPARE	64
65	SPARE							0.0	0.0	20 A	1	-	SPARE	66
67	SPARE				0.0	0.0				20 A	1	-	SPARE	68
69	SPARE					0.0	0.0			20 A	1	-	SPARE	70
71	SPARE							0.0	0.0	20 A	1	-	SPARE	72
73	SPACE & PROVISION				0.0	0.0				-	-	-	SPACE & PROVISION	74
75	SPACE & PROVISION					0.0	0.0			-	-	-	SPACE & PROVISION	76
77	SPACE & PROVISION							0.0	0.0	-	-	-	SPACE & PROVISION	78
79	SPACE & PROVISION				0.0	0.0				-	-	-	SPACE & PROVISION	80
81	SPACE & PROVISION					0.0	0.0			-	-	-	SPACE & PROVISION	82
83	SPACE & PROVISION							0.0	0.0	-	-	-	SPACE & PROVISION	84
					13.7	10.9	18.6							
CONNECTED LOAD =		41.2	KVA											
DEMAND LOAD =		37.3	KVA											
MIN AIC RATING =		10,000	AMPS SYMMETRICAL											
										MAIN LUG ONLY				
										LOCATION ELEG 143				
NOTES:														
1. PROVIDE GFCI-TYPE CIRCUIT BREAKER.														

Murphy & Dittenhafer
ARCHITECTS

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VICTORY VILLA ELEMENTARY SCHOOL
BALTIMORE, MARYLAND

SUBMISSION:
ADDENDUM #5

E6.04

M&D Proj.#:

15123

Drawn By:

MG

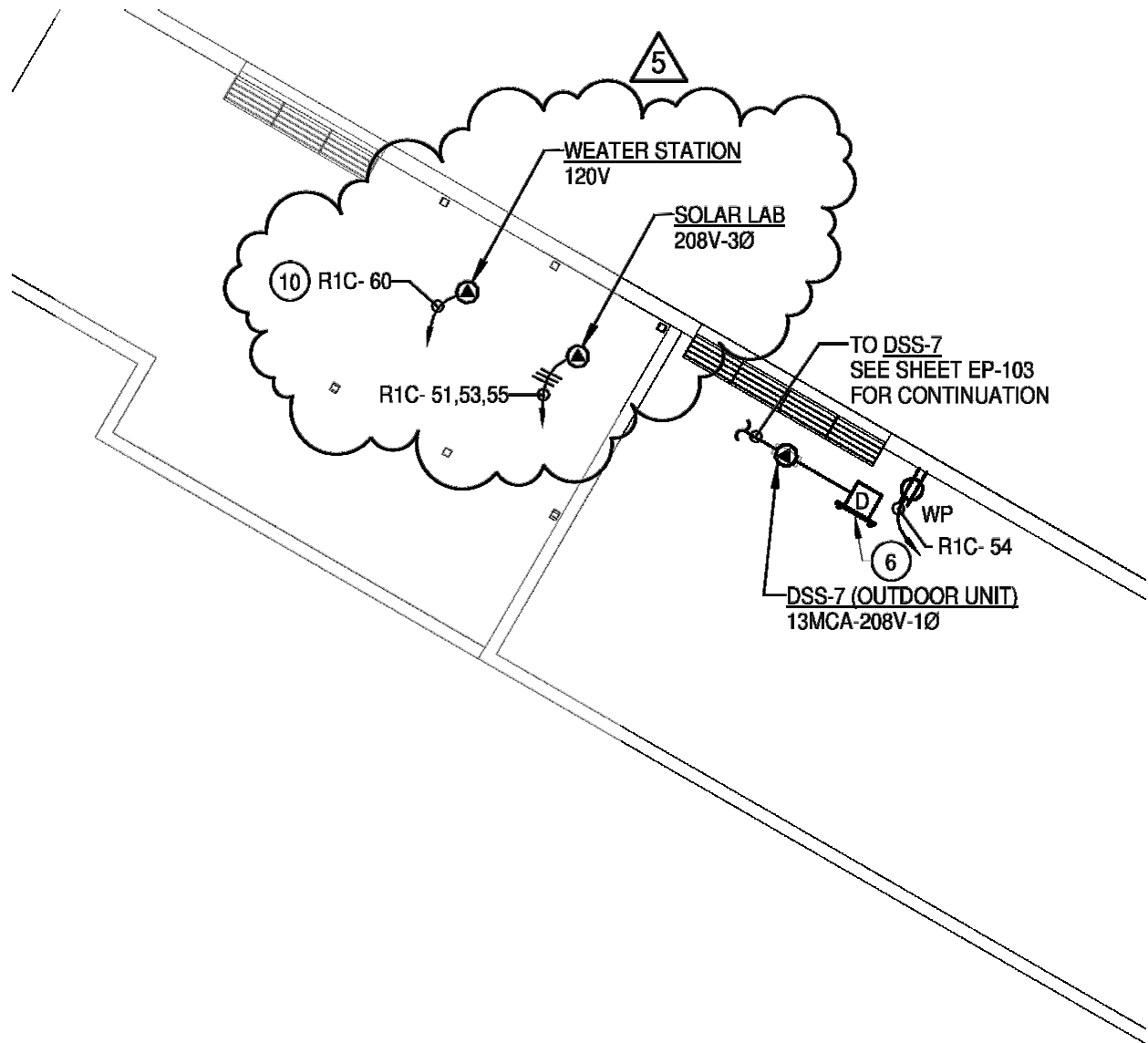
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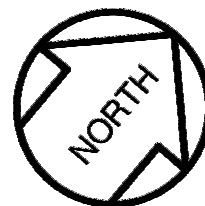
Date:

12-13-16

1 OF 1



1 **ROOF PLAN - POWER**
 EP1.06 SCALE: 1/16" = 1'-0"



		BALTIMORE COUNTY PUBLIC SCHOOLS VICTORY VILLA ELEMENTARY SCHOOL BALTIMORE, MARYLAND		SUBMISSION: ADDENDUM #5 EP1.06 1 OF 1	
M&D Proj.#:	15123	Drawn By:	MG	Checked By:	BMM
			Date:	12-13-16	