

# Tempe Elementary School District

## Nevitt School Rebuild

Adjacent Ways Estimate  
Contract Number: 17-29-01

Revised April 26, 2018



4/26/2018

# **Nevitt Elementary School**

4525 E Saint Anne Ave

Phoenix, AZ 85042

Contract Number : 17-29-01

**Revised**

Item	Description Of Work	Adjacent Ways - ONSITE	Adjacent Ways - OFFSITE	Total Adjacent Ways
<b>DIVISION 01 - GENERAL REQUIREMENTS</b>				
1	General Requirements	\$20,707	\$6,902	\$27,609
2	Layout & Surveying	\$7,000	\$0	\$7,000
<b>Division 02 - SITE CONSTRUCTION</b>				
3	Earthwork & Paving	\$146,224	\$8,776	\$155,000
4	Pavement Markings	\$12,840	\$0	\$12,840
5	Site Utilities	\$8,775	\$122,890	\$131,665
<b>DIVISION 03 - CONCRETE</b>				
6	Concrete	\$38,693	\$31,194	\$69,886
7	<b>Subtotal</b>	<b>\$234,240</b>	<b>\$169,762</b>	<b>\$404,001</b>
8	Material Testing/Special Inspection	\$4,160	\$0	\$4,160
9	General Liability Insurance	\$2,866	\$1,987	\$4,853
10	Builders Risk Insurance	\$860	\$596	\$1,456
11	Performance & Payment Bond	\$6,745	\$0	\$0
12	Contingency - Construction	\$8,198	\$5,942	\$14,140
13	Contractors Fee	\$14,328	\$9,937	\$24,266
14	<b>Subtotal</b>	<b>\$271,397</b>	<b>\$188,224</b>	<b>\$452,876</b>
15	Sales Taxes	\$15,171	\$10,522	\$25,693
16	<b>TOTAL</b>	<b>\$286,568</b>	<b>\$198,746</b>	<b>\$485,314</b>



4/26/2018

**Nevitt Elementary School**

4525 E Saint Anne Ave

Phoenix, AZ 85042

Contract Number : 17-29-01

**ONSITE ADJACENT WAYS - Revised**

Item	Description Of Work	Total Quantity	Unit	Total Cost	Division Sum
<b>DIVISION 01 - GENERAL REQUIREMENTS</b>					
1	General Requirements	1	LS	\$20,707	
2	Layout & Surveying	1	LS	\$7,000	
3	<b>Total General Requirement &amp; Survey</b>				<b>\$27,707</b>
<b>Division 02 - SITE CONSTRUCTION</b>					
4	<b>Earthwork &amp; Paving</b>				
5	Sidewalk Demolition - No Building only Pathway	17,541	SF	\$21,401	
6	Clear & Grub	105,997	SF	\$10,600	
7	Fine grade subgrade for Asphalt Paving	5,380	SY	\$10,760	
8	Import & place fill	1,937	CY	\$6,779	
9	Pave 3" AC on 8 ABC	5,380	SY	\$93,186	
10	Water Cost	1	LS	\$3,500	
11	<b>Total Earthwork &amp; Paving</b>				<b>\$146,226</b>
12	<b>Pavement Markings</b>				
13	Fire lane signs & post	35	EA	\$6,300	
14	Fire Lane marking	3,951	LF	\$3,435	
15	Arrow paint	14	EA	\$1,260	
16	Stop Sign	1	EA	\$175	
17	DO NOT ENTER Sign	1	EA	\$200	
18	Speed Humps	6	EA	\$570	
19	Cross walks paint	3	EA	\$900	
20	<b>Total Pavement Markings</b>				<b>\$12,840</b>
21	<b>Site Utilities</b>				
22	6" Sewer	135	LF	\$8,775	
23	<b>Total Site Utilities</b>				<b>\$8,775</b>
<b>DIVISION 03 - CONCRETE</b>					
24	<b>Concrete</b>				
25	Onsite Curb & Gutter	1,455	LF	\$18,915	
26	Onsite Vertical Curb	1,758	LF	\$19,778	
27	<b>Total Concrete</b>				<b>\$38,693</b>
28	<b>Subtotal</b>				<b>\$234,240</b>



4/26/2018

**Nevitt Elementary School**

4525 E Saint Anne Ave

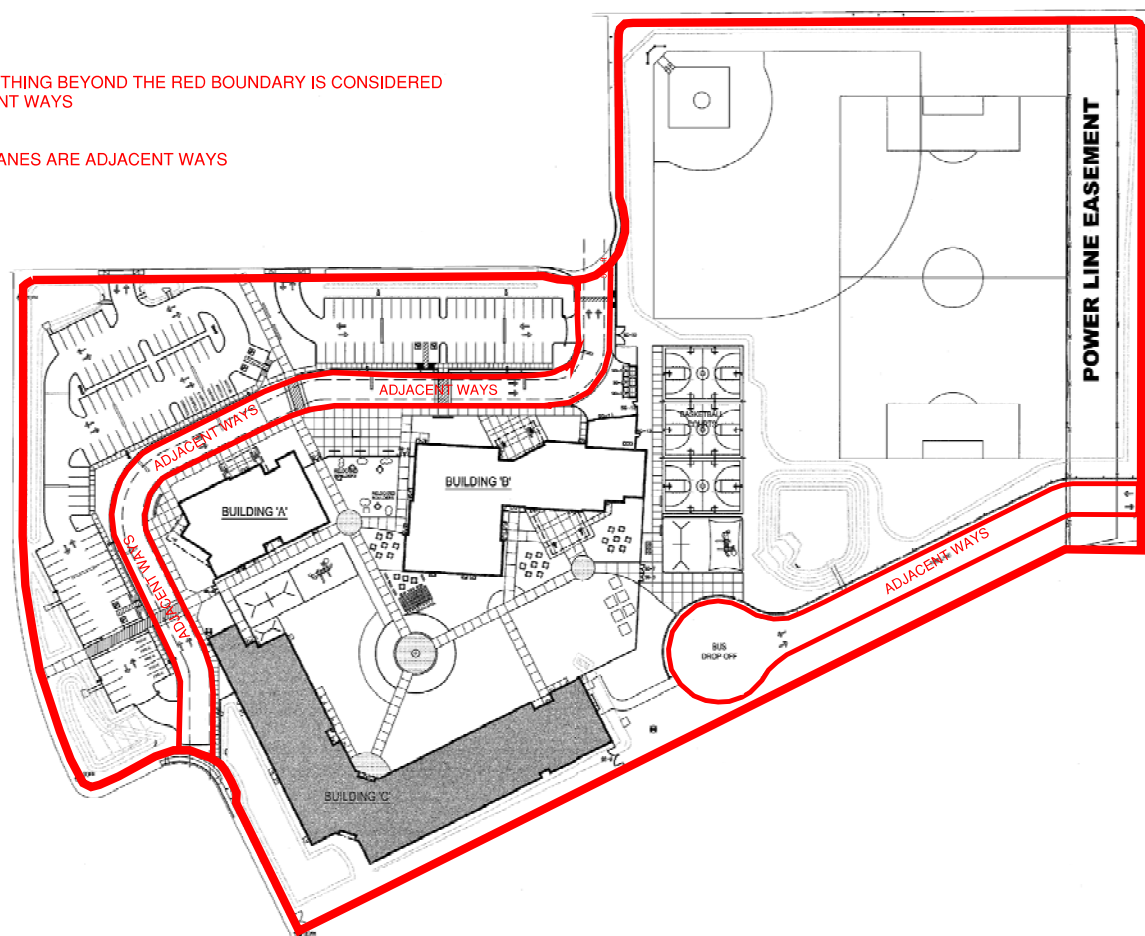
Phoenix, AZ 85042

Contract Number : 17-29-01

**OFFSITE ADJACENT WAYS**

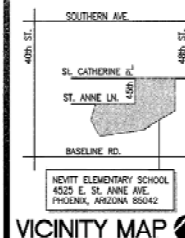
Item	Description Of Work	Total Quantity	Unit	Total Cost	Division Sum
<b>DIVISION 01 - GENERAL REQUIREMENTS</b>					
1	General Requirements	1	LS	\$6,902	
2	<b>Total General Requirement &amp; Survey</b>				<b>\$6,902</b>
<b>Division 02 - SITE CONSTRUCTION</b>					
3	<b>Earthwork &amp; Paving</b>				
4	Sidewalk Demolition - No Building	800	SF	\$919	
5	Sawcut & remove AC & curb at drive entrance	1	LS	\$4,200	
6	Asphalt Patch @ Drive Entrance	3	EA	\$3,657	
7	<b>Total Earthwork &amp; Paving</b>				<b>\$8,776</b>
8	<b>Site Utilities</b>				
9	6" Sewer	194	LF	\$12,610	
10	Sew Tie into existing Main	3	LS	\$4,500	
11	2" Water	145	LF	\$5,000	
12	8" PC 350 DIP & fittings	147	LF	\$11,025	
13	6" PC 350 DIP	232	LF	\$17,315	
14	8" x 8" Tapping Sleeve & Valve	1	EA	\$6,500	
15	6" x 6" Tapping Sleeve & Valve	2	EA	\$11,000	
16	City of Phoenix Road Pavement Cut	1	LS	\$25,000	
17	Pavement Replacement	1	LS	\$16,800	
18	Concrete Replacement	1	LS	\$13,140	
19	<b>Total Site Utilities</b>				<b>\$122,890</b>
<b>DIVISION 03 - CONCRETE</b>					
20	<b>Concrete</b>				
21	City Of Phoenix Offsite Sidewalk	884	SF	\$3,536	
22	Off Site Curb & Gutter	339	LF	\$20,258	
23	Off Site Driveway per City of Phoenix	1,447	SF	\$5,788	
24	Off Site Vertical Curb	124	LF	\$1,612	
28	<b>Total Concrete</b>				<b>\$31,194</b>
29	<b>Subtotal</b>				<b>\$169,762</b>

**\*\*FIRE LANES ARE ADJACENT WAYS**



1 OVERALL SITE PLAN

SCALE: 1" = 50'-0"



Sheet No. \_\_\_\_\_

A100c



**HDA ARCHITECTS**  
1559 N. Gilbert Road, Suite 100  
TAMPA, FL 33605  
TEL: (408) 539 8800

**HHDA ARCHITECTS, LLC.**  
1659 N. Gilbert Road, Suite C-200, GILBERT, AZ 85234  
TEL: (480) 539 8900 FAX: (480) 539 8608

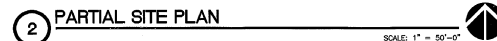
CTS, LLC.  
O. GILBERT, AZ 85234  
FAX: (480) 539 8608

PERMIT  
SET

Job No.	1709
Drawn	AJD
Checked	GAM
Date	02-15-18
Revised	
 <b>ADDENDUM NO. 01</b> 01-16-18	

ADDITIONS AND RENOVATIONS TO  
NEVITT ELEMENTARY SCHOOL  
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3  
4625 E. ST. ANNE AVE.  
PHOENIX, AZ. 85042

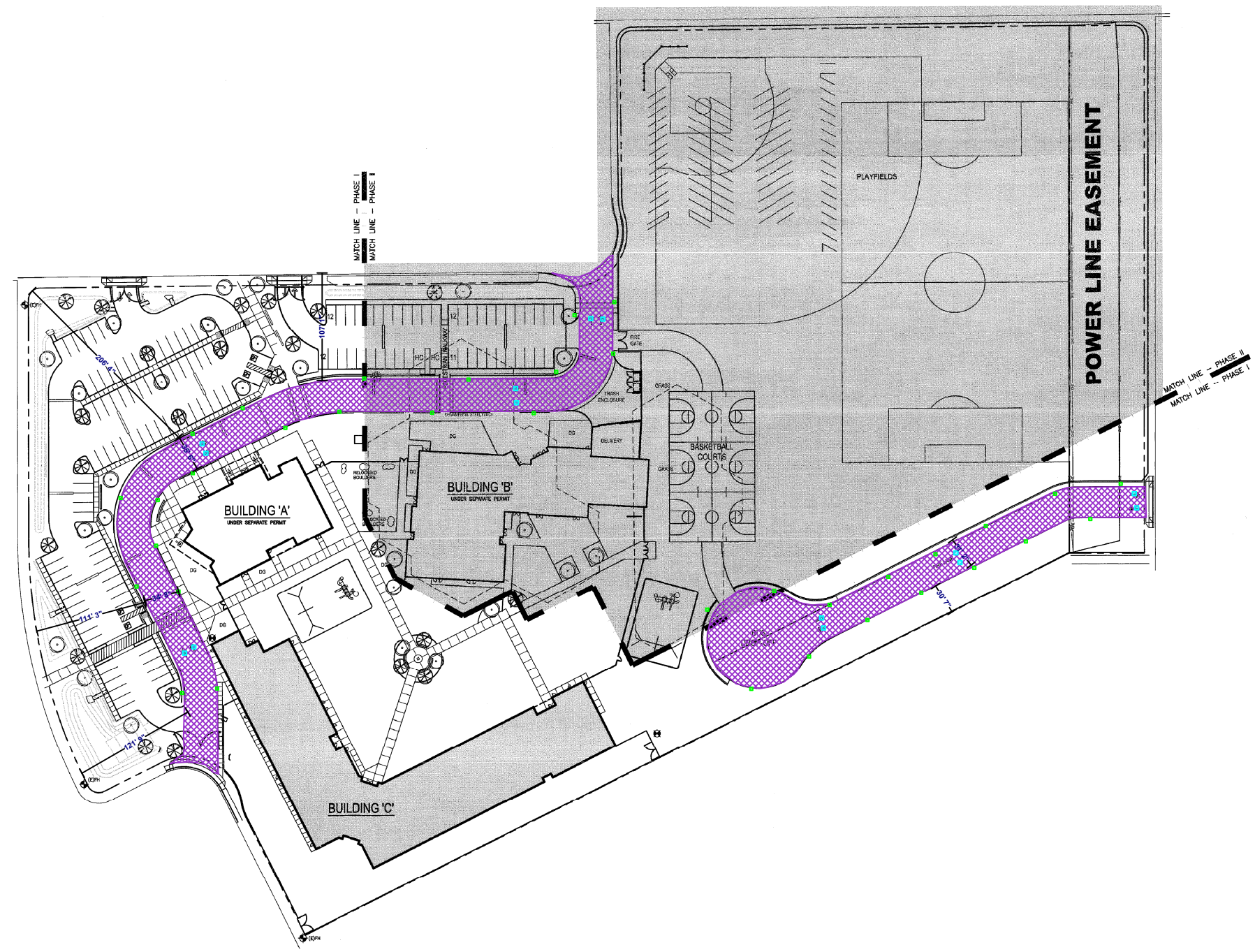
1525 E. ST. ANNE A.



- Sheet No.
- A101

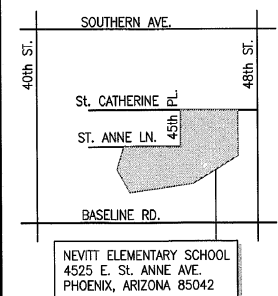


- 24 - Pave 3" AC on 8" ABC - 48,421 SF
- 25 - Arrow paint - 14 EA
- 26 - Fire Lane Sign - 35 EA




1 OVERALL SITE PLAN

SCALE: 1" = 50'-0"



VICINITY MAP



**HDA**  
HDA ARCHITECTS, LLC.

NEVITT ELEMENTARY SCHOOL  
4525 E. ST. ANNE AVE.  
PHOENIX, ARIZONA 85042

40th ST.

48th ST.

SOUTHERN AVE.

ST. CATHERINE PL.

ST. ANNE LN.

BASELINE RD.


NEVITT ELEMENTARY SCHOOL  
4525 E. ST. ANNE AVE.  
PHOENIX, ARIZONA 85042

459 N. Gilbert Road, Suite C-200, GILBERT, AZ 85294  
TEL: (480) 539 8800 FAX: (480) 539 8608


OVERALL SITE PLAN

PERMIT SET


ADDITIONS AND RENOVATIONS TO  
NEVITT ELEMENTARY SCHOOL  
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3  
4525 E. ST. ANNE AVE.  
PHOENIX, AZ. 85042



Job No. 1709  
Drawn AJD  
Checked DAM  
Date 11-13-17  
Revised



KNIGHTS



tempe  
SCHOOL DISTRICT NO. 3

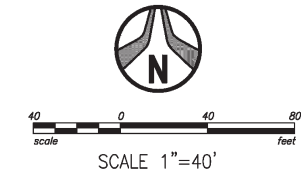
Sheet No.  
**A100**

- 27 - 6" Sewer - 329 LF
- 28 - 8" PC 350 DIP - 147 LF
- 29 - 6" PC 350 DIP - 126 LF
- 30 - 2" Water - 145 LF

# NEVITT ELEMENTARY SCHOOL

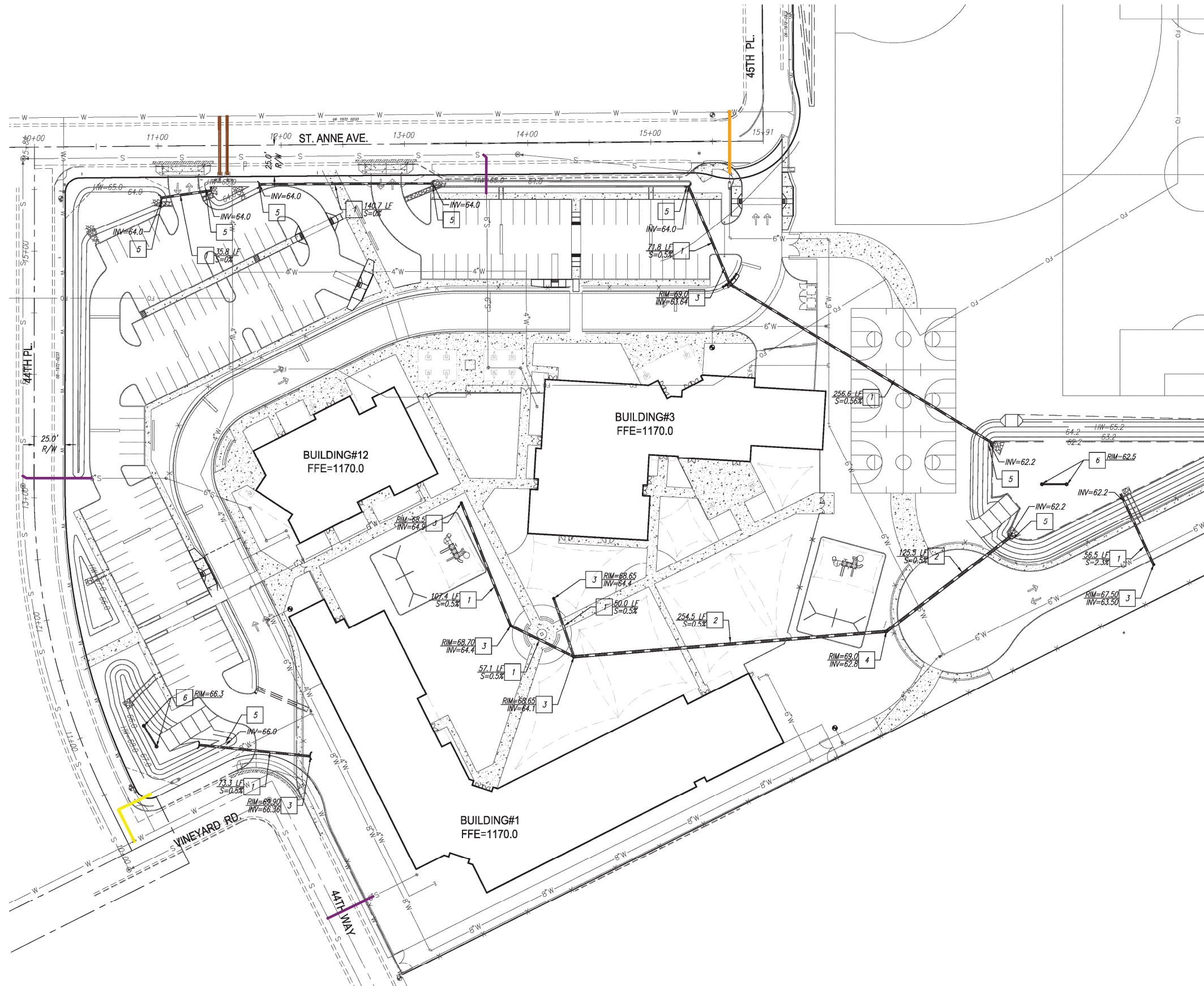
PHOENIX, AZ. 85042

## STORM DRAIN PLAN



### STORM DRAIN NOTES:

1. INSTALL 18" HDPE STORM DRAIN PIPE. LENGTH AND SLOPE PER PLAN.
2. INSTALL 24" HDPE STORM DRAIN PIPE. LENGTH AND SLOPE PER PLAN.
3. INSTALL 12" NYLOPLAST POLYPROPYLENE STORM DRAIN PIPE AND 24" STANDARD GRATE ASSEMBLY.
4. PROVIDE 48" CMP ACCESS MANHOLE PORT WITH 24" GRATE COVER AS SHOWN ON PLANS.
5. CONSTRUCT HEADWALL PER M.A.G. STD. DTL. 501-1 TYPE 'U'.
6. INSTALL MAXWELL PLUS DUAL DRYWELL OR EQUIVALENT PER DETAIL 05 ON SHEET C1.3.



ADDITIONS AND RENOVATIONS TO  
NEVITT ELEMENTARY SCHOOL  
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3  
4525 E. ST. ANNE AVE.  
PHOENIX, AZ. 85042



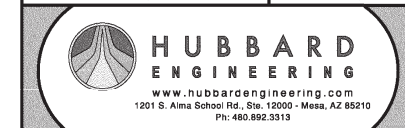
Job No. 1709  
Drawn DL  
Checked MSW  
Date 11/18/17  
Revised

FOR  
CONSTRUCTION

HDA ARCHITECTS, LLC.  
459 N. Gilbert Road, Suite C-200, GILBERT, AZ 85234  
TEL: (480) 539 8800 FAX: (480) 539 8608  
STORM DRAIN PLAN



Project No. 17129	Date 12/14/2017	Sheet No. C111
Project Manager D. LAREDO, P.E.	Project Engineer M. WOLF, P.E.	



Sheet No.  
C111

PAPP#1705053 KIVA#17-3110



- (1) CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- (2) CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- (3) INSTALL SINGLE CURB PER M.A.G. STD. DETAIL 222 TYPE 'A'.
- (4) CONSTRUCT CONCRETE SIDEWALK PER C.O.P. STD. DETAIL P-1230. WIDTH VARIES REFER TO PLAN.
- (5) CONSTRUCT SIDEWALK RAMP PER DETAIL C.O.P. STD. DETAIL P-1240 (SINGLE) OR P-1241-4 (DOUBLE).
- (6) CONSTRUCT 3" CURB OPENING PER DETAIL 1 ON SHEET C102.
- (7) CONSTRUCT 3" CURB OPENING WITH CONCRETE SIDEWALK SCUPPER PER M.A.G. STD. DETAIL 206.
- (8) PROPOSED SPEED TABLE WITH CROSSWALK. REFER TO ARCHITECT'S PLAN FOR DETAILS.
- (9) CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% IN ALL DIRECTIONS.
- (10) PROPOSED TRASH ENCLOSURE. REFER TO ARCHITECT'S PLAN FOR DETAILS.
- (11) SITE WALL/FENCE PER ARCHITECT'S PLANS.
- (12) INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. STD. DETAIL P-1255-2.
- (13) SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200-TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION. PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
- (14) REMOVE EXISTING CURB AND GUTTER.
- (15) INSTALL RIP-RAP, D = 8", DEPTH=18" PER M.A.G. SPEC. SECTION 220 OVER GEOSYNTHETIC FABRIC PER M.A.G. SPEC. SECTION 796.
- (16) INSTALL (2.5' OPENING) SCUPPER PER MAG STD DETAIL 203.
- (17) INSTALL HDPE STORM DRAIN PIPE PER SHEET C111.
- (18) INSTALL CONCRETE CURB AND GUTTER PER M.A.G. STD. 220-1 TYPE 'A'.
- (19) INSTALL ROLL CURB PER M.A.G. STD. 220-1 TYPE 'C'.
- (20) INSTALL SPEED BUMP. REFER TO ARCHITECT'S PLAN.
- (21) INSTALL ACCESSIBLE RAMP PER DETAIL 2 IN SHEET C102.
- (22) INSTALL CATCH BASIN PER COP S.D. P1570 (N).
- (23) INSTALL MAXWELL PLUS DRYWELL PER DETAIL ON SHEET C102 AND PER MANUFACTURERS SPECIFICATIONS. INVERT SHOWN ON PLAN MUST BE 0.3 FT ABOVE BOTTOM OF RETENTION BASIN.
- (24) PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- (25) DEPRESS AREA 6" MIN. U.N.O.



**Call before you dig.**  
**1.800.STAKE.IT**  
**602.263.1100**



**HUBBARD  
ENGINEERING**

[www.hubbardengineering.com](http://www.hubbardengineering.com)  
1201 S. Alma School Rd., Ste. 12000 - Mesa, AZ 85210  
Ph: 480.892.3313

Sheet No.  
C109

Project No. <b>17129</b>	Date <b>12/14/2017</b>
Project Manager <b>D. LAREDO, P.E.</b>	

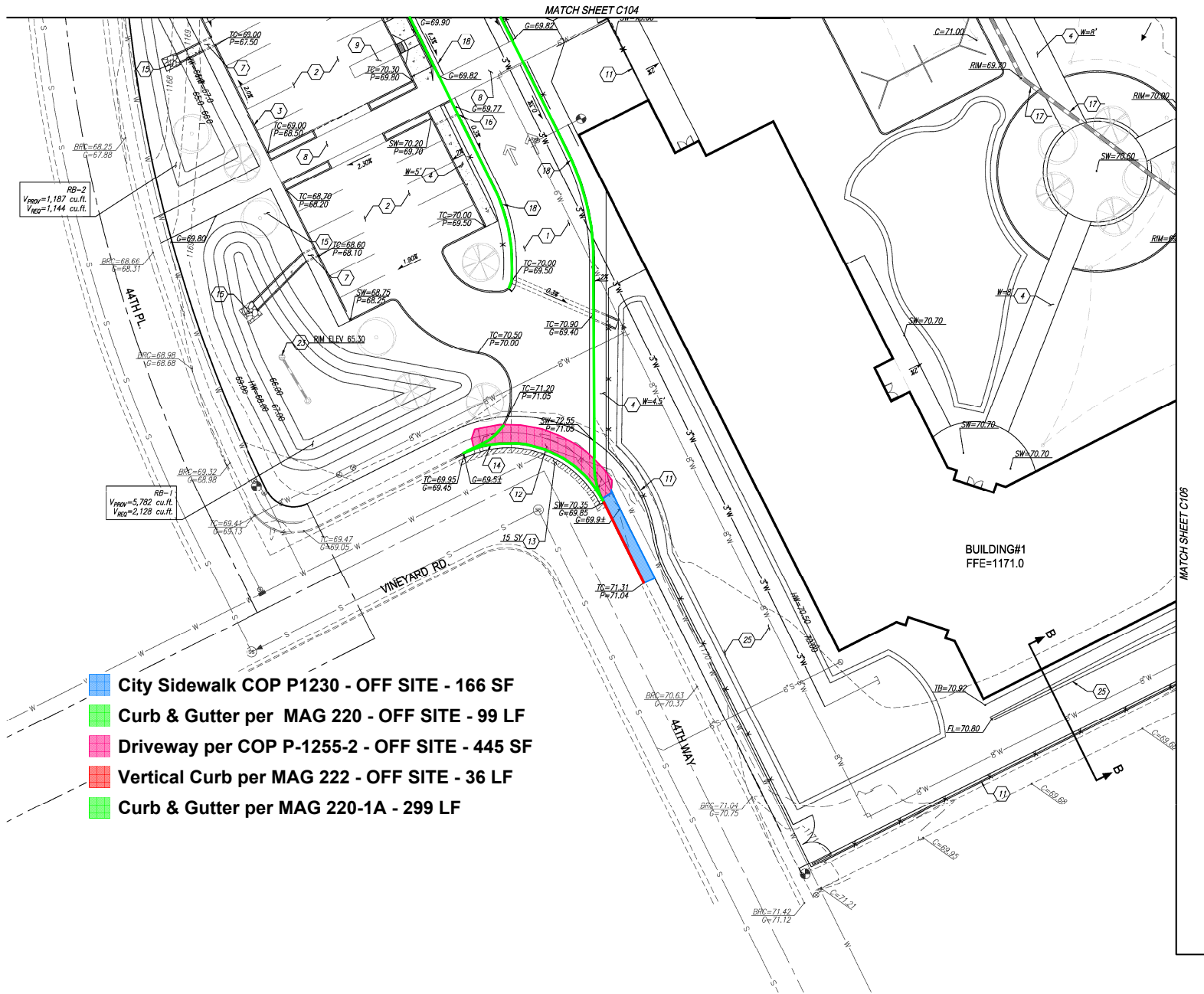
# NEVITT ELEMENTARY SCHOOL

## PHOENIX, AZ. 85042

### GRADING PLAN



SCALE 1"=20'



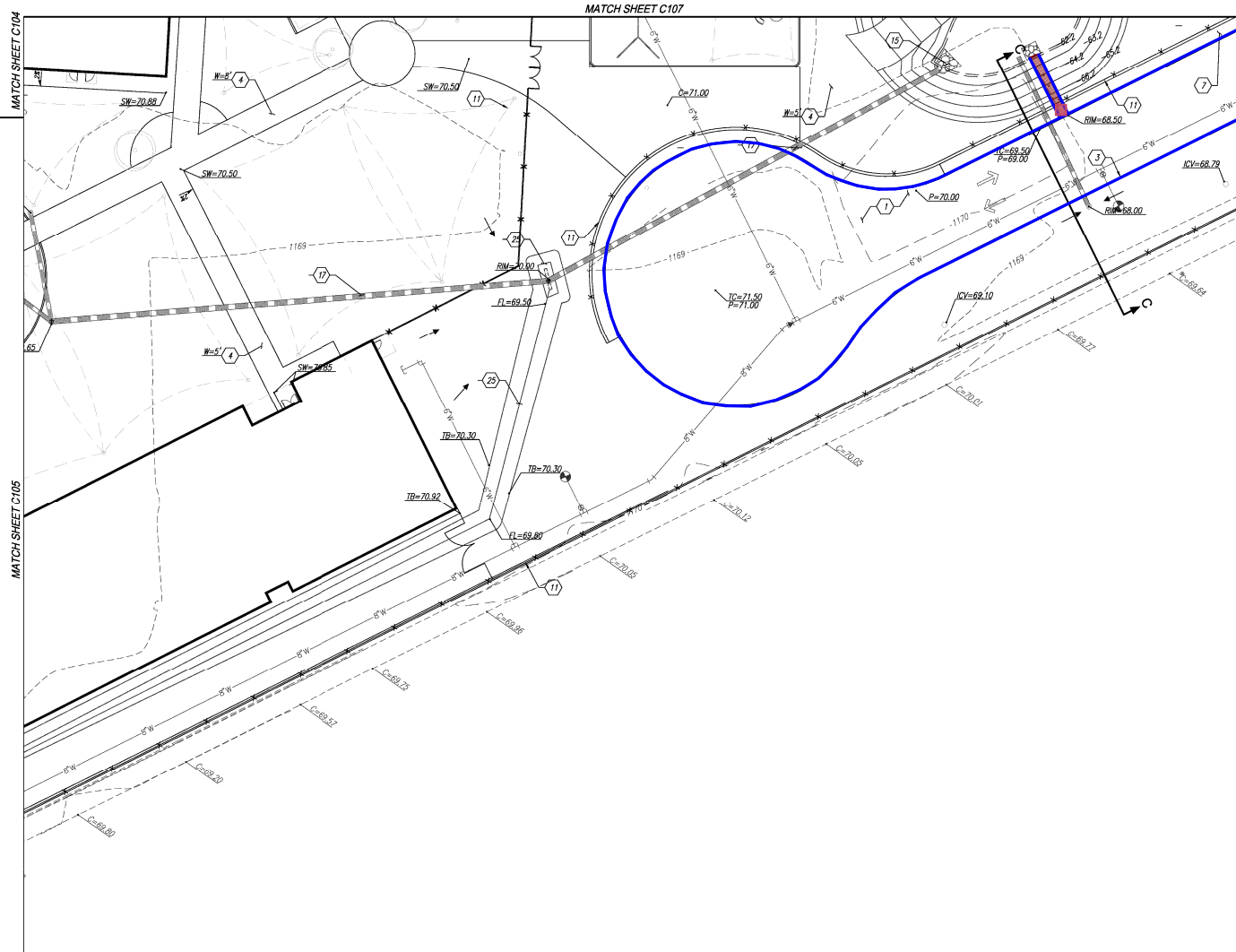
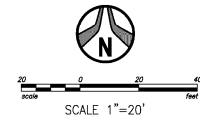
Project No.	Date
17129	12/14/2017
Project Manager	
D. LAREDO, P.E.	

# NEVITT ELEMENTARY SCHOOL

## PHOENIX, AZ. 85042

### GRADING PLAN

- Spillway Bottom - 83 SF
- Spillway Curbs - 50 LF
- Vertical Curb per MAG 222A - 595 LF
- Sidewalk Scupper MAG 206 - 5'-0" Long - 1 EA



#### GRADING NOTES:

1. CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE PER GEOTECH SPECS.
2. CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE PER GEOTECH SPECS.
3. INSTALL SINGLE CURB PER M.A.G. STD. DETAIL 222 TYPE 'A'.
4. CONSTRUCT CONCRETE SIDEWALK PER C.O.P. STD. DETAIL P-1230. WIDTH VARIES REFER TO PLAN.
5. CONSTRUCT SIDEWALK RAMP PER DETAIL C.O.P. STD. DETAIL P-1240 (SINGLE) OR P-1241-4 (DOUBLE).
6. CONSTRUCT 3" CURB OPENING PER DETAIL 1 ON SHEET C102.
7. CONSTRUCT 3" CURB OPENING WITH CONCRETE SIDEWALK SCUPPER PER M.A.G. STD. DETAIL 206.
8. PROPOSED SPEED TABLE WITH CROSSWALK. REFER TO ARCHITECT'S PLAN FOR DETAILS.
9. CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% IN ALL DIRECTIONS.
10. PROPOSED TRASH ENCLOSURE, REFER TO ARCHITECT'S PLAN FOR DETAILS.
11. SITE WALL/FENCE PER ARCHITECT'S PLANS.
12. INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. STD. DETAIL P-1250-1.
13. SAWCUT AND REMOVE AC PAVEMENT, PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX SUPPLEMENT SECTION 536 AND CITY OF PHOENIX DETAIL P1200-TYPE B, CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT/CIVIL/SITE INSPECTION, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
14. REMOVE EXISTING CURB AND GUTTER.
15. INSTALL RBP-BAP, D=8", DEPTH=18" PER M.A.G. SPEC. SECTION 220 OVER GEOSYNTHETIC FABRIC PER M.A.G. SPEC. SECTION 796.
16. INSTALL (2.5" OPENING) SCUPPER PER MAG STD DETAIL 203.
17. INSTALL HDPE STORM DRAIN PIPE PER SHEET C111.
18. INSTALL CONCRETE CURB AND GUTTER PER M.A.G. STD. 220-1 TYPE 'A'.
19. INSTALL ROLL CURB PER M.A.G. STD. 220-1 TYPE 'C'.
20. INSTALL SPEED BUMP. REFER TO ARCHITECT'S PLAN.
21. INSTALL ACCESSIBLE RAMP PER DETAIL 2 IN SHEET C102.
22. INSTALL CATCH BASIN PER C.O.P. S.D. P1570 (N).
23. INSTALL MAXWELL PLUS DRYWELL PER DETAIL ON SHEET C102 AND PER MANUFACTURER'S SPECIFICATIONS. INVERT SHOWN ON PLAN MUST BE 0.3 FT ABOVE BOTTOM OF RETENTION BASIN.
24. PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
25. DEPRESS AREA 6" MIN. UNLO.

SEE ARCHITECT'S PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.



Project No.	Date	Sheet No.
17129	12/14/2017	C106
Project Manager	Project Engineer	
D. LAREDO, P.E.	M. WOLF, P.E.	
 <b>HUBBARD ENGINEERING</b> <small>www.hubbardengineering.com 1201 S. Alma School Rd., Ste. 1000 - Mesa, AZ 85016 PH: 480.892.3313</small>		

ADDITIONS AND RENOVATIONS TO  
NEVITT ELEMENTARY SCHOOL  
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3  
4525 E. ST. ANNE AVE.  
PHOENIX, AZ. 85042



Job No. 1708  
Drawn DL  
Checked MSB  
Date 11/18/17  
Revised

RAE  
CONSTRUCTION

HDA ARCHITECTS, LLC.  
459 N. Gilbert Road Suite C-200, GILBERT, AZ 85334  
TEL: (480) 539 8800 FAX: (480) 539 8608  
GRADING PLAN

HDA ARCHITECTS, LLC.  
KIVA #17-3110

Sheet No.  
C106

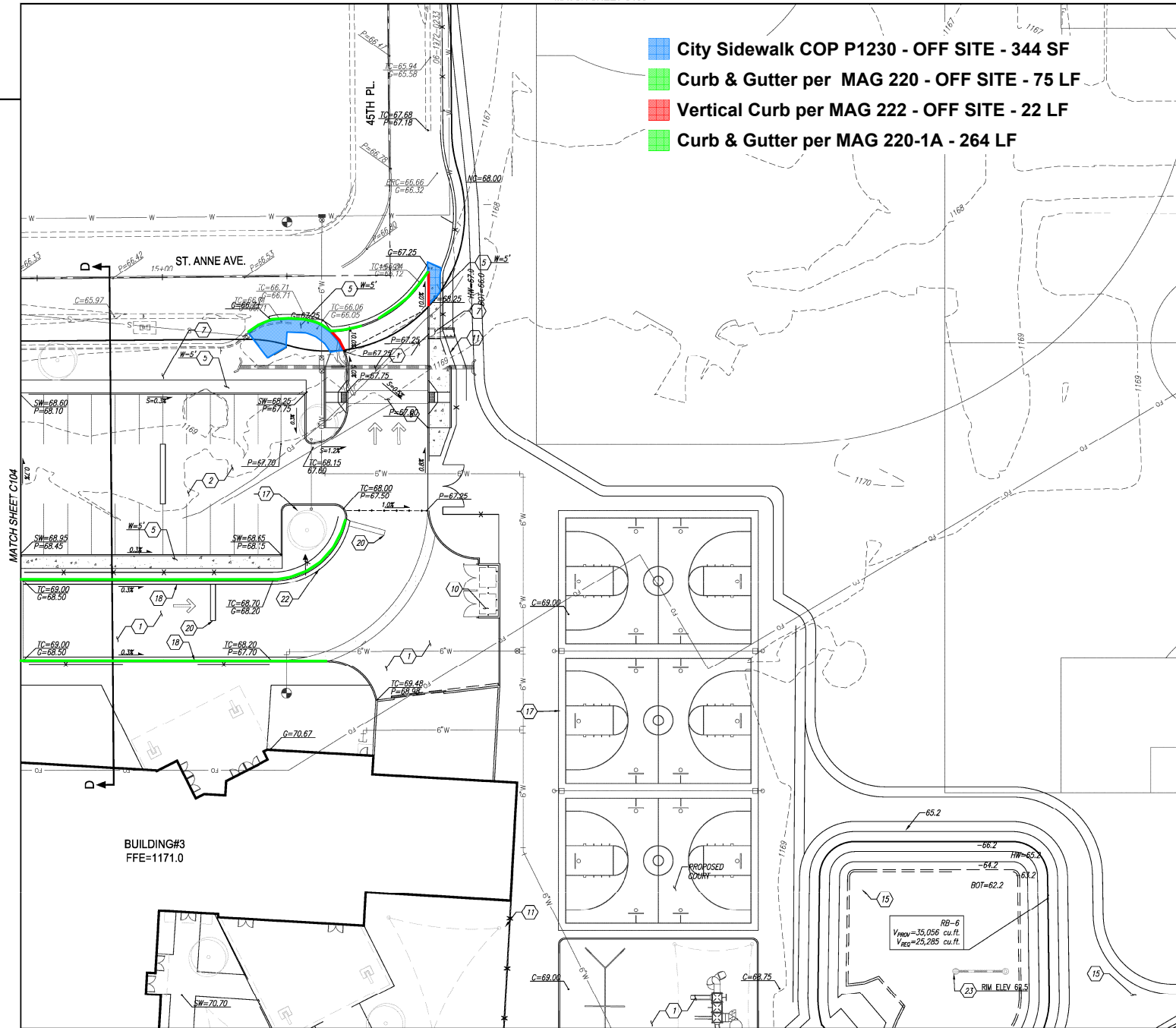
PAPP#1705053

- City Sidewalk COP P1230 - OFF SITE - 344 SF
- Curb & Gutter per MAG 220 - OFF SITE - 75 LF
- Vertical Curb per MAG 222 - OFF SITE - 22 LF
- Curb & Gutter per MAG 220-1A - 264 LF

**GRADING NOTES:**

- 1) CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- 2) CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- 3) INSTALL SINGLE CURB PER M.A.G. STD. DETAIL 222 TYPE 'A'.
- 4) CONSTRUCT CONCRETE SIDEWALK PER C.O.P. STD. DETAIL P-1230. WIDTH VARIES REFER TO PLAN.
- 5) CONSTRUCT SIDEWALK RAMP PER DETAIL C.O.P. STD. DETAIL P-1240 (S OR P-1241-4 (DOUBLE).
- 6) CONSTRUCT 3' CURB OPENING PER DETAIL 1 ON SHEET C102.
- 7) CONSTRUCT 3' CURB OPENING WITH CONCRETE SIDEWALK SCUPPER PER M.A.G. STD. DETAIL 206.
- 8) PROPOSED SPEED TABLE WITH CROSSWALK. REFER TO ARCHITECT'S PLAN FOR DETAILS.
- 9) CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS 2% IN ALL DIRECTIONS.
- 10) PROPOSED TRASH ENCLOSURE. REFER TO ARCHITECT'S PLAN FOR DETAILS.
- 11) SITE WALL/FENCE PER ARCHITECT'S PLANS.
- 12) INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. STD. DETAIL P-1255-2.
- 13) SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX STANDARD SECTION 336 AND CITY OF PHOENIX DETAIL P1200-TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
- 14) REMOVE EXISTING CURB AND GUTTER.
- 15) INSTALL RP-RAP D - 6" DEPTH-18" PER M.A.G. SPEC. SECTION 220 OVER GEOSYNTHETIC FABRIC PER M.A.G. SPEC. SECTION 796.
- 16) INSTALL (2.5' OPENING) SCUPPER PER MAG STD DETAIL 203.
- 17) INSTALL HOPE STORM DRAIN PIPE PER SHEET C111.
- 18) INSTALL CONCRETE CURB AND GUTTER PER M.A.G. STD. 220-1 TYPE 'A'.
- 19) INSTALL ROLL CURB PER M.A.G. STD. 220-1 TYPE 'C'.
- 20) INSTALL SPEED BUMP. REFER TO ARCHITECT'S PLAN.
- 21) INSTALL ACCESSIBLE RAMP PER DETAIL 2 IN SHEET C102.
- 22) INSTALL CATCH BASIN PER C.O.P. S.D. P1570 (N).
- 23) INSTALL MAXWELL PLUS DRYWELL PER DETAIL ON SHEET C102 AND PER MANUFACTURER'S SPECIFICATIONS. INVERT SHOWN ON PLAN MUST BE 0.3 FT ABOVE BOTTOM OF RETENTION BASIN.
- 24) PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- 25) DEPRESS AREA 6" MIN. U.N.O.

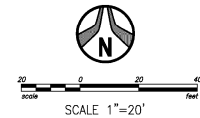
SEE ARCHITECT'S PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.



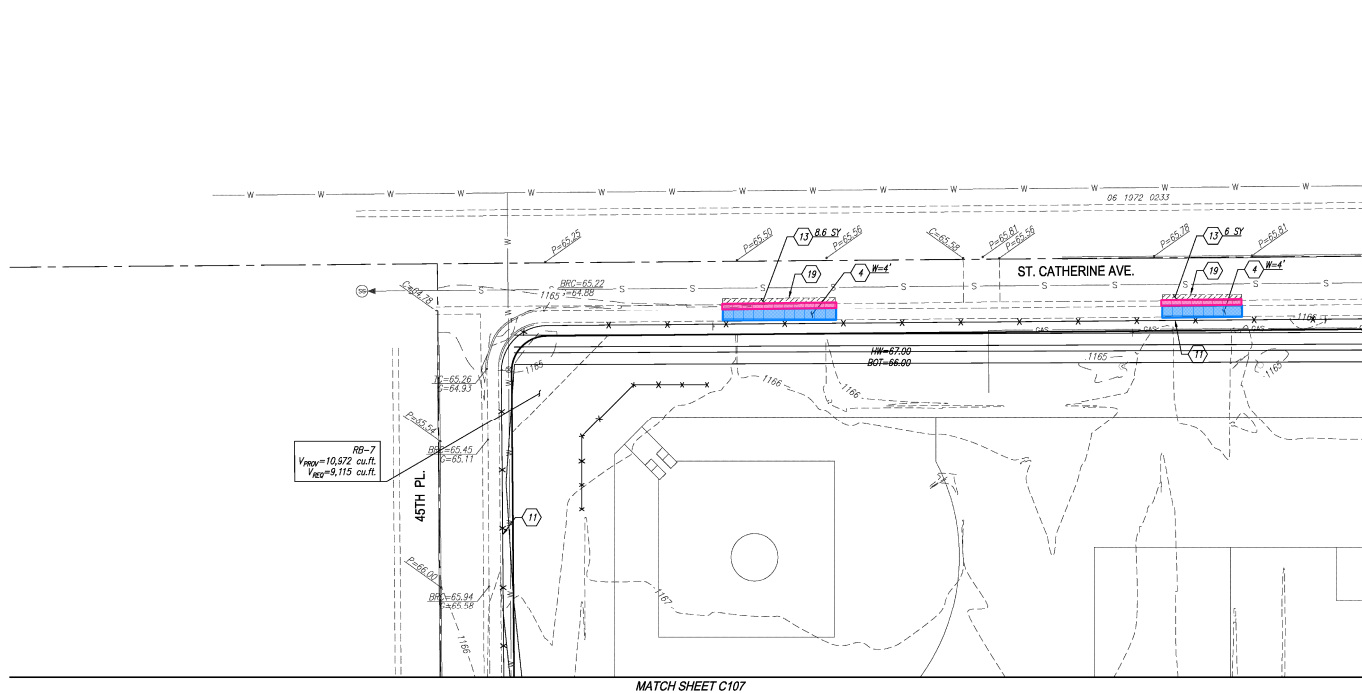
# NEVITT ELEMENTARY SCHOOL

## PHOENIX, AZ. 85042

### GRADING PLAN



- City Sidewalk COP P1230 - OFF SITE - 262 SF
- Roll Curb MAG 220-1C - OFF SITE - 66 LF



#### GRADING NOTES:

1. CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE PER GEOTECH SPECS.
  2. CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE PER GEOTECH SPECS.
  3. INSTALL SINGLE CURB PER M.A.G. STD. DETAIL 222 TYPE 'A'.
  4. CONSTRUCT CONCRETE SIDEWALK PER C.O.P. STD. DETAIL P-1230. WIDTH VARIES REFER TO PLAN.
  5. CONSTRUCT SIDEWALK RAMP PER DETAIL C.O.P. STD. DETAIL P-1240 (SINGLE) OR P-1241-4 (DOUBLE).
  6. CONSTRUCT 3" CURB OPENING PER DETAIL 1 ON SHEET C102.
  7. CONSTRUCT 3" CURB OPENING WITH CONCRETE SIDEWALK SCUPPER PER M.A.G. STD. DETAIL 206.
  8. PROPOSED SPEED TABLE WITH CROSSWALK. REFER TO ARCHITECT'S PLAN FOR DETAILS.
  9. CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% IN ALL DIRECTIONS.
  10. PROPOSED TRASH ENCLOSURE, REFER TO ARCHITECT'S PLAN FOR DETAILS.
  11. SITE WALL/FENCE PER ARCHITECT'S PLANS.
  12. INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. STD. DETAIL P-1255-4.
  13. SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX SUPPLEMENT SECTION 536 AND CITY OF PHOENIX DETAIL P1200-TYPE B, CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
  14. REMOVE EXISTING CURB AND GUTTER.
  15. INSTALL RRP-RAP, D=8", DEPTH=18" PER M.A.G. SPEC. SECTION 220 OVER GEOSYNTHETIC FABRIC PER M.A.G. SPEC. SECTION 796.
  16. INSTALL (2.5" OPENING) SCUPPER PER MAG STD DETAIL 203.
  17. INSTALL HDPE STORM DRAIN PIPE PER SHEET C111.
  18. INSTALL CONCRETE CURB AND GUTTER PER M.A.G. STD. 220-1 TYPE 'A'.
  19. INSTALL ROLL CURB PER M.A.G. STD. 220-1 TYPE 'C'.
  20. INSTALL SPEED BUMP. REFER TO ARCHITECT'S PLAN.
  21. INSTALL ACCESSIBLE RAMP PER DETAIL 2 IN SHEET C102.
  22. INSTALL CATCH BASIN PER COP S.D. P1570 (N).
  23. INSTALL MAXWELL PLUS DRAINELL PER DETAIL ON SHEET C102 AND PER MANUFACTURER'S SPECIFICATIONS. INVERT SHOWN ON PLAN MUST BE 0.3 FT ABOVE BOTTOM OF RETENTION BASIN.
  24. PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR Boulders.
  25. DEPRESS AREA 6" MIN. U.N.O.
- SEE ARCHITECT'S PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.

ADDITIONS AND RENOVATIONS TO  
NEVITT ELEMENTARY SCHOOL  
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3  
4525 E. ST. ANNE AVE.  
PHOENIX, AZ. 85042




Job No. 1708  
Drawn DL  
Checked MHL  
Date 11/18/17  
Revised

FOR CONSTRUCTION

HDA ARCHITECTS, LLC.  
459 N. Gilbert Road, Suite C-200, Gilbert, AZ 85334  
TEL: (480) 539 8800 FAX: (480) 539 8608  
GRADING PLAN

HDA ARCHITECTS, LLC.  
KIVA #17-3110



Project No. <b>17129</b>	Date <b>12/14/2017</b>	Sheet No. <b>C108</b>
Project Manager <b>D. LAREDO, P.E.</b>	Project Engineer <b>M. WOLF, P.E.</b>	
 <b>HUBBARD ENGINEERING</b> <small>www.hubbardengineering.com 1201 S. Alma School Rd., Ste. 1000 - Mesa, AZ 85210 PH: 480.882.3313</small>		

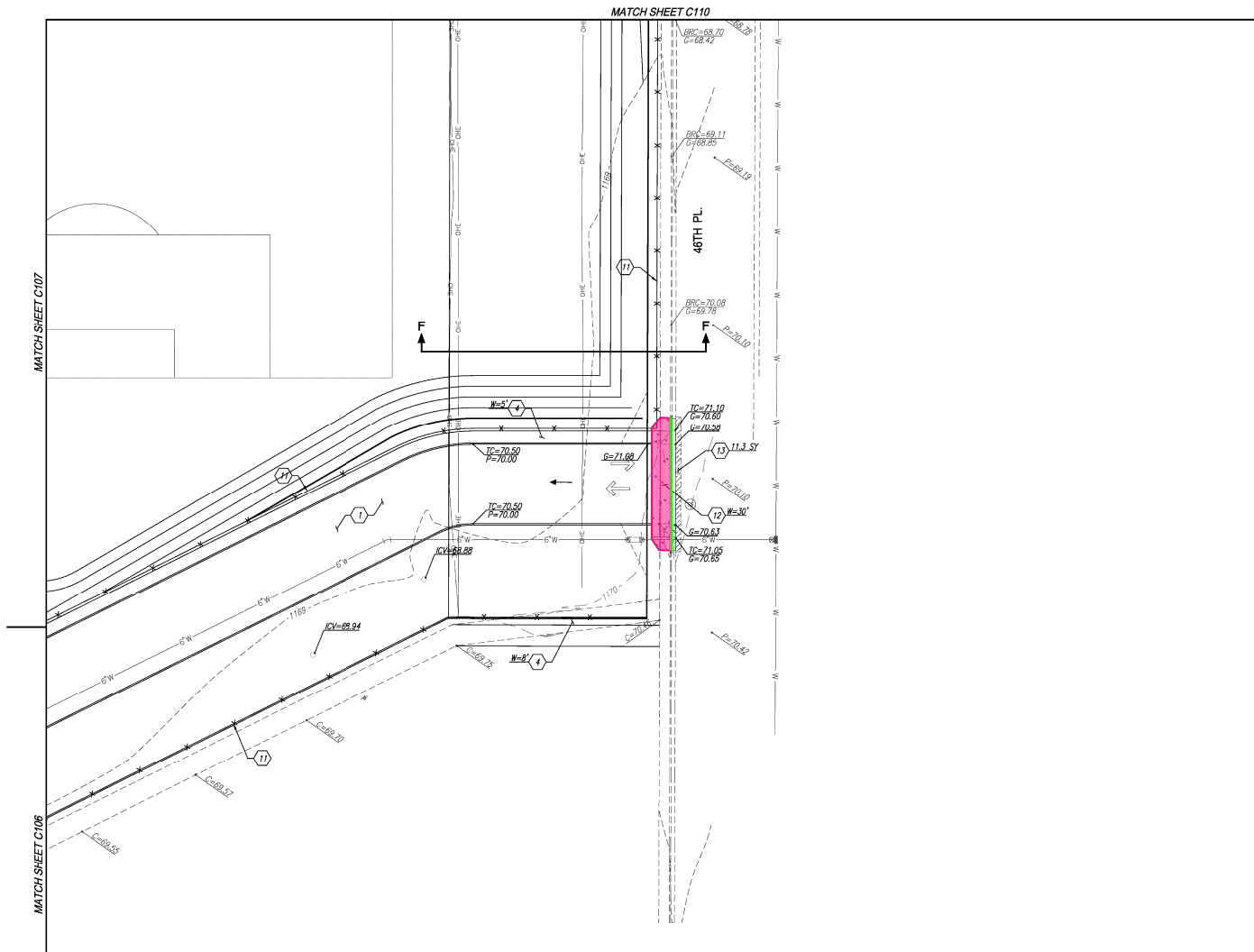
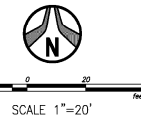
Sheet No.  
**C108**

- Curb & Gutter per MAG 220 - OFF SITE - 50 LF
- Driveway per COP P-1255-2 - OFF SITE - 343 SF

# NEVITT ELEMENTARY SCHOOL

## PHOENIX, AZ. 85042

### GRADING PLAN



#### GRADING NOTES:

- (1) CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE PER GEOTECH SPECS.
- (2) CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE PER GEOTECH SPECS.
- (3) INSTALL SINGLE CURB PER M.A.G. STD. DETAIL 222 TYPE 'A'.
- (4) CONSTRUCT CONCRETE SIDEWALK PER C.O.P. STD. DETAIL P-1230. WIDTH VARIES REFER TO PLAN.
- (5) CONSTRUCT SIDEWALK RAMP PER DETAIL C.O.P. STD. DETAIL P-1240 (SINGLE) OR P-1241-4 (DOUBLE).
- (6) CONSTRUCT 3" CURB OPENING PER DETAIL 1 ON SHEET C102.
- (7) CONSTRUCT 3" CURB OPENING WITH CONCRETE SIDEWALK SCUPPER PER M.A.G. STD. DETAIL 206.
- (8) PROPOSED SPEED TABLE WITH CROSSWALK. REFER TO ARCHITECT'S PLAN FOR DETAILS.
- (9) CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% IN ALL DIRECTIONS.
- (10) PROPOSED TRASH ENCLOSURE, REFER TO ARCHITECT'S PLAN FOR DETAILS.
- (11) SITE WALL/FENCE PER ARCHITECT'S PLANS.
- (12) INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. STD. DETAIL P-1255-2.
- (13) SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX SUPPLEMENT SECTION 536 AND CITY OF PHOENIX DETAIL P1200-TYPE B, CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT, CIVIL/CITY INSPECTION, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
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- (16) INSTALL (2.5' OPENING) SCUPPER PER MAG STD DETAIL 203.
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- (18) INSTALL CONCRETE CURB AND GUTTER PER M.A.G. STD. 220-1 TYPE 'A'.
- (19) INSTALL ROLL CURB PER M.A.G. STD. 220-1 TYPE 'C'.
- (20) INSTALL SPEED BUMP. REFER TO ARCHITECT'S PLAN.
- (21) INSTALL ACCESSIBLE RAMP PER DETAIL 2 IN SHEET C102.
- (22) INSTALL CATCH BASIN PER COP S.D. P1570 (N).
- (23) INSTALL MAXWELL PLUS DROWELL PER DETAIL ON SHEET C102 AND PER MANUFACTURER'S SPECIFICATIONS. INVERT SHOWN ON PLAN MUST BE 0.3 FT ABOVE BOTTOM OF RETENTION BASIN.
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NEVITT ELEMENTARY SCHOOL  
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Job No. 1708  
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Revised

**DRAFT**  
CONSTRUCTION

**HDA ARCHITECTS, LLC.**  
459 N. Gilbert Road, Suite C-200, Gilbert, AZ 85334  
TEL: (480) 539 8800 FAX: (480) 539 8608  
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Project No. <b>17129</b>	Date <b>12/14/2017</b>	Sheet No. <b>C109</b>
Project Manager <b>D. LAREDO, P.E.</b>	Project Engineer <b>M. WOLF, P.E.</b>	



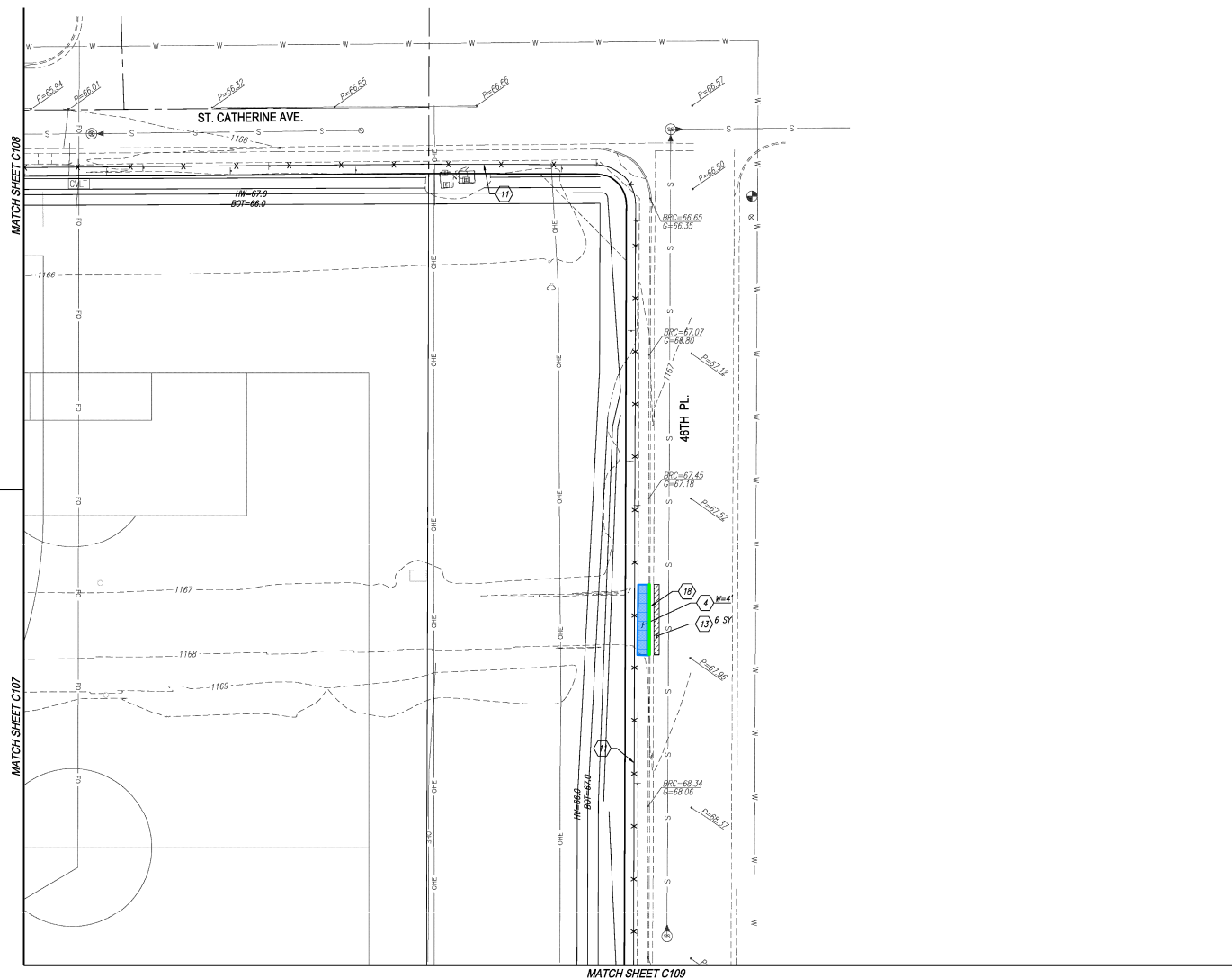
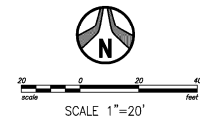
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HDA ARCHITECTS, LLC.

Sheet No.  
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# NEVITT ELEMENTARY SCHOOL

PHOENIX, AZ. 85042

## GRADING PLAN



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Project Manager <b>D. LAREDO, P.E.</b>	Project Engineer <b>M. WOLF, P.E.</b>	
 <b>HUBBARD ENGINEERING</b> www.hubbardengineering.com 1201 S. Alma School Rd., Ste. 1000 - Mesa, AZ 85016 PH: 480.892.3313		

Sheet No.  
**C110**