Schedule of Values

revised 8/24/2018

						ADJACENT WAYS
SFB AW 200-18						SCHEDULE OF VALUES
	School District	Creighton Elementary				
	SFB Project Number					
	Architect Name	SPS + Architects				
	CM @ Risk Name	Creighton Elementary Rebuild				
	County	Maricopa				
	Permitting (Name of County/City)	Maricopa / Phoenix				
	GMP	$704,202.85			$0.00	AW-Y ☐ AW-N ☐
	= Cells to be completed - as required	Quantity	Cost per Unit (no markup)	District Cost	Other On-Site Funding (Adjacent Ways, etc.)	Off-Site Adjacent Ways
Div 1	GENERAL CONDITIONS					
01 50 00	tempory facilites	92,071.00			$66,632.69	$11,758.71
01 56 19	dust control	92,071.00				
01 57 13	track off pads	92,071.00				
	Division 1 total			$0.00	$66,632.69	$11,758.71
Div 2	EXISTING CONDITIONS					
02 21 13	survey	92,071.00			$13,629.78	$88.21
02 41 13	site demolition/removal	92,071.00			$66,776.75	$4,900.00
02 60 00	soil treatment	92,071.00				
	Division 2 total			$0.00	$80,406.53	$4,988.21
Div 3	CONCRETE					
03 00 00	footings/walls	92,071.00				
03 00 00	building	92,071.00				
03 20 00	rebar	92,071.00				
03 30 53	slabs	92,071.00				
03 35 00	sealed floors	92,071.00				
03 40 00	precast concrete	92,071.00				
	Division 3 total			$0.00	$0.00	$0.00
Div 4	MASONRY					
04 00 00	masonry walls	92,071.00				
04 00 00	masonry columns	92,071.00				
04 05 19	rebar	92,071.00				
04 22 00	site masonry	92,071.00				
04 22 00	block fencing	92,071.00				
04 43 00	stonework	92,071.00				
	Division 4 total			$0.00	$0.00	$0.00
Div 5	METALS					
05 00 00	miscellaneous steel	92,071.00				
05 10 00	structural steel	92,071.00				
05 30 00	metal decking	92,071.00				
05 51 00	stairs	92,071.00				
05 70 00	architectural steel	92,071.00				
	Division 5 total			$0.00	$0.00	$0.00
Div 6	WOODS/PLASTICS/COMPOSITES					
06 10 00	rough carpentry structure	92,071.00				
06 15 00	wood decking	92,071.00				
06 20 00	finish carpentry	92,071.00				
06 40 00	millwork/casework	92,071.00				
06 60 00	plastic/glass fiber	92,071.00				
	Division 6 total			$0.00	$0.00	$0.00

Schedule of Values

revised 8/24/2018

	= Cells to be completed - as required	Quantity	Cost per Unit (no markup)	District Cost	Other On-Site Funding (Adjacent Ways, etc.)	Off-Site Adjacent Ways
Div 7	THERMAL/MOISTURE					
07 10 00	waterproofing/dampproofing	92,071.00				
07 20 00	building insulation	92,071.00				
07 21 00	foam roof	92,071.00				
07 25 00	weather barrier	92,071.00				
07 31 00	roof shingles	92,071.00				
07 32 00	roof tiles	92,071.00				
07 50 00	membrane roofing	92,071.00				
07 60 00	metal roof	92,071.00				
07 60 00	general sheet metal	92,071.00				
07 72 00	roof accessories	92,071.00				
07 81 00	sprayed fireproofing	92,071.00				
07 84 00	firestopping	92,071.00				
07 95 00	roof expansion joint	92,071.00				
07 92 00	joint sealants	92,071.00				
	Division 7 total			$0.00	$0.00	$0.00
Div 8	OPENINGS					
81 10 00	doors & frames	92,071.00				
08 33 00	overhead doors	92,071.00				
08 40 00	storefronts	92,071.00				
08 44 00	curtain walls	92,071.00				
08 50 00	windows	92,071.00				
08 60 00	skylights	92,071.00				
08 70 00	hardware	92,071.00				
08 71 13	automatic doors	92,071.00				
08 79 00	knox box	92,071.00				
08 80 00	glass & glazing	92,071.00				
	Division 8 total			$0.00	$0.00	$0.00
Div 9	FINISHES					
09 24 00	stucco/EIFS systems	92,071.00				
09 20 00	interior metal studs/gypsum board	92,071.00				
09 22 00	exterior metal stud framing	92,071.00				
09 23 00	decorative plaster	92,071.00				
09 51 00	acoustical ceilings	92,071.00				
09 31 00	ceramic tile	92,071.00				
09 65 00	resilient flooring	92,071.00				
09 68 00	carpet	92,071.00				
09 64 00	wood floors	92,071.00				
09 67 00	epoxy	92,071.00				
09 80 00	sound panels	92,071.00				
09 90 00	painting	92,071.00				
09 77 00	fiberglass reinforced panels	92,071.00				
	Division 9 total			$0.00	$0.00	$0.00
Div 10	SPECIALTIES					
10 11 00	visual display boards	92,071.00				
10 14 00	signage	92,071.00				
10 21 13	toilet partitions & accessories	92,071.00				
10 21 23	cubicle track & curtain	92,071.00				
10 22 26	operable partitions/walls	92,071.00				
10 26 00	wall protection	92,071.00				
10 44 00	fire exttinguishers & cabinets	92,071.00				
10 50 00	lockers	92,071.00				
10 56 13	storage shelving	92,071.00				
10 73 00	shelters	92,071.00				
10 73 13	awnings	92,071.00				
10 73 13	canopy/ramada	92,071.00				
10 75 00	flagpoles	92,071.00				
	Division 10 total			$0.00	$0.00	$0.00

Schedule of Values

revised 8/24/2018

	= Cells to be completed - as required	Quantity	Cost per Unit (no markup)	District Cost	Other On-Site Funding (Adjacent Ways, etc.)	Off-Site Adjacent Ways
Div 11	EQUIPMENT					
11 16 16	floor safe	92,071.00				
11 41 00	kitchen equipment	92,071.00				
11 51 00	library equipment	92,071.00				
11 52 00	audio/visual equipment	92,071.00				
11 52 13	projection screens	92,071.00				
11 53 13	fume hoods	92,071.00				
11 61 43	stage curtain/equipment	92,071.00				
11 66 00	sports/PE equipment	92,071.00				
11 68 00	playground equipment	92,071.00				
11 68 23	site basketball courts	92,071.00				
11 68 33	ballfield backstop	92,071.00				
11 68 33	sports fields	92,071.00				
	Division 11 total			$0.00	$0.00	$0.00
Div 12	FURNISHINGS					
12 20 00	window coverings	92,071.00				
12 31 00	metal casework	92,071.00				
12 32 16	plastic laminate casework	92,071.00				
12 61 00	auditorium seating	92,071.00				
12 93 13	bike racks	92,071.00				
12 93 23	trash enclosures	92,071.00				
	Division 12 total			$0.00	$0.00	$0.00
Div 13	SPECIAL CONST					
13 00 00	equipment/storage enclosures	92,071.00				
13 11 00	swimming pools	92,071.00				
13 34 16	bleachers	92,071.00				
13 34 19	metal buildings	92,071.00				
	Division 13 total			$0.00	$0.00	$0.00
Div 14	CONVEYING					
14 00 00	material handling	92,071.00				
14 20 00	elevators	92,071.00				
14 42 00	wheelchair lifts	92,071.00				
	Division 14 total			$0.00	$0.00	$0.00
Div 21	FIRE SUPPRESSION					
21 10 00	fire protection/sprinklers	92,071.00				
	Division 21 total			$0.00	$0.00	$0.00
Div 22	PLUMBING					
22 11 00	supply piping	92,071.00				
22 13 00	waste water piping	92,071.00				
22 31 00	water treatment (softner)	92,071.00				
22 32 00	water treatment (filtered)	92,071.00				
22 35 00	water heaters	92,071.00				
22 42 00	plumbing fixtures	92,071.00				
	Division 22 total			$0.00	$0.00	$0.00
Div 23	MECHANICAL					
23 07 13	mechanical insulation	92,071.00				
23 50 00	HVAC - central plant (cooling)	92,071.00				
23 60 00	HVAC - central plant (heating)	92,071.00				
23 76 00	HVAC - evaporative	92,071.00				
23 80 00	HVAC - package units	92,071.00				
23 81 26	HVAC - split system	92,071.00				
	Division 23 total			$0.00	$0.00	$0.00
Div 25	INTEGRATED AUTOMATION					
25 50 00	EMS	92,071.00				
	Division 25 total			$0.00	$0.00	$0.00
Div 26	ELECTRICAL					
26 10 00	site electrical	92,071.00				$22,508.00
26 10 00	electrical	92,071.00				
26 30 00	generators	92,071.00				
26 56 00	exterior lighting	92,071.00				
	Division 26 total			$0.00	$0.00	$22,508.00
Div 27	COMMUNICATIONS					
27 20 00	data cabling	92,071.00				
27 24 00	TV cabling	92,071.00				
27 30 00	intercom	92,071.00				
27 32 13	communications/phone	92,071.00				
	Division 27 total			$0.00	$0.00	$0.00

Schedule of Values

revised 8/24/2018

	= Cells to be completed - as required	Quantity	Cost per Unit (no markup)	District Cost	Other On-Site Funding (Adjacent Ways, etc.)	Off-Site Adjacent Ways
Div 28	SAFETY AND SECURITY					
28 10 00	security system	92,071.00				
28 20 00	surveillance/alarm	92,071.00				
28 31 00	fire alarm system	92,071.00				
	Division 28 total			$0.00	$0.00	$0.00
Div 31	EARTHWORK					
31 23 00	earthwork/mass excavation	92,071.00			$34,374.27	$2,015.67
31 23 00	import/export dirt	92,071.00				
31 31 00	soil treatment - termite	92,071.00				
	Division 31 total			$0.00	$34,374.27	$2,015.67
Div 32	EXTERIOR IMPROVEMENTS					
32 00 00	parking	92,071.00				
32 00 00	unusal site conditions	92,071.00				
32 10 00	asphalt/paving	92,071.00			$155,555.50	$24,075.00
32 13 00	site concrete	92,071.00			$163,867.15	$2,588.00
32 13 00	sidewalks	92,071.00				
32 17 00	striping/signage	92,071.00				
32 31 13	chainlink fencing	92,071.00				
32 31 19	wrought iron fencing	92,071.00			$26,000.00	
32 32 00	retaining walls	92,071.00				
32 80 00	irrigation	92,071.00				
32 90 00	landscaping	92,071.00				
	Division 32 total			$0.00	$345,422.65	$26,663.00
Div 33	UTILITIES					
33 00 00	site utilities	92,071.00				
33 21 00	wells	92,071.00				
33 32 16	lift station	92,071.00				
33 36 00	septic system	92,071.00				
33 40 00	stormwater/drainage	92,071.00				
33 49 23	drywells	92,071.00				
	Division 33 total			$0.00	$0.00	$0.00
	Subtotal	$594,769.73		$0.00	$526,836.14	$67,933.59
5.00%	Contractor Fee		$35,210.14		$31,188.50	$4,021.64
3.50%	Contactor Contingency		$24,647.10		$21,831.95	$2,815.15
0.35%	Builders Risk/Liability Insurance		$2,464.71		$2,183.19	$281.51
1.10%	Performance & Payment Bonds		$7,746.23		$6,861.47	$884.76
5.59%	Sales Tax		$39,364.94		$34,868.74	$4,496.20
	Subtotal	$704,202.85		$0.00	$623,770.00	$80,432.86
	Grand Guaranteed Maximum Price (GMP)	$704,202.85				

CHASSE

PROJECT: **Creighton School Rebuild**
REV DATE: April 26, 2019

DIV	DESCRIPTION	TOTAL QUANTITY	UNIT	TOTAL COST
1A	**Survey and Layout**			
	SURVEY	91,475	SF	13,629.78
	Subtotal Survey and Layout			**13,629.78**
2A	**Demolition**			
	DEMO PAVING	91,475	SF	66,776.75
	Subtotal Demolition			**66,776.75**
3A	**Concrete**			
	CURB AND GUTTER	2,539	LF	19,931.15
	PCCP PAVING	22,144	SF	143,936.00
	Subtotal Concrete			**163,867.15**
31A	**Earthwork**			
	MASS GRADING	10,164	sy	34,374.27
	ASPHALT PAVING - HEAVY DUTY	6,828	sy	155,555.50
	Subtotal Earthwork			**189,929.77**
32A	**Fencing**			
	36' VEHICULAR SWING GATE	1	EA	9,500.00
	28' VEHICULAR SWING GATE	1	EA	9,000.00
	22' VEHICULAR SLIDE GATE	1	EA	7,500.00
	Subtotal Fencing			**26,000.00**
	OFF SITE IMPROVEMENTS			
1A	**Survey and Layout**			
	SURVEY	596	SF	88.21
	Subtotal Survey and Layout			**88.21**
2A	**Demolition**			
	SAW CUT, DEMO PAVING	1	EA	4,900.00
	Subtotal Demolition			**4,900.00**
3A	**Concrete**			
	CURB AND GUTTER	154	LF	2,588.00
	Subtotal Concrete			**2,588.00**
31A	**Earthwork**			
	MASS GRADING	596	SF	2,015.67
	ASPHALT PAVING - HEAVY DUTY	596	SF	13,575.00
	MICROSEAL PAVING @ MCDOWELL	1	LS	10,500.00
	TRAFFIC CONTROL	1	LS	12,500.00
	Subtotal Earthwork			**38,590.67**
	Electrical			
26A	UG Conduit	78	LF	4,008.00
	Traffic Signal	1	EA	18,500.00
	Subtotal Electrical			**22,508.00**

Creighton Elementary School
Adjacent Ways Submittal
Legend
Creighton Elementary School
Google Earth
© 2018 Google
700 ft
N

IMPROVEMENT PLANS
FOR
CREIGHTON ELEMENTARY SCHOOL
PHOENIX, ARIZONA

A PORTION OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 2 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN MARICOPA COUNTY, ARIZONA

17-410 Creighton Elementary School

Oct 25, 2018 4:27pm S:\Projects\2017\17-410\Civil_Schematic Design_DD Set\17-410 - C100.dwg

cb5a

ESTIMATED ON-SITE QUANTITIES

QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. ENGINEER MAKES NO GUARANTEE OF ACCURACY.

CONSTRUCTION NOTES

1A	STANDARD DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT	8944	SY
1B	HEAVY DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT	3289	SY
1C	DECORATIVE PAVEMENT SECTION PER LANDSCAPE PLANS	858	SY
1D	CONCRETE PAVEMENT PER LATEST GEOTECHNICAL REPORT	2413	SY
3A	6" SINGLE CURB MAG STD DTL 222 TYPE A	972	LF
3B	6" VERT. CURB AND GUTTER MAG STD DTL 220-1 TYPE A	3452	LF
8	DRIVEWAY PER C.O.P. STD DTL P1243	1	EA
9	3' CONCRETE VALLEY GUTTER MAG STD DTL 240	1590	SF
14	SPEED HUMP PER SEE ARCHITECTURAL PLANS FOR DETAILS	0	SY
16	6" DUMPED RIP-RAP TO LIMITS SHOWN. HAND PLACE AFTER LANDSCAPE INSTALLATION.	160	SF
19C	12" HDPE STORM DRAIN LENGTH AND SLOPE PER PLAN	22	LF
19D	18" HDPE STORM DRAIN LENGTH AND SLOPE PER PLAN	30	LF
19E	18"HDPE STORM DRAIN LENGTH AND SLOPE PER PLAN	63	LF
19G	36" RGRCP STORM DRAIN LENGTH AND SLOPE PER PLAN	1025	LF
20A	CATCH BASIN MAG STD DTL 534 (SINGLE)	2	EA
20B	CATCH BASIN DOUBLE MAG STD DTL 537 (DOUBLE)	3	EA
21A	DRYWELL PER DETAIL ON SHEET 4 OR APPROVED EQUAL. SET RIM OF DRYWELL 0.2' ABOVE BASIN BOTTOM.	5	EA
23	BUBBLER BOX: MAG 537 (DOUBLE) WITH OPEN BOTTOM FILLED WITH 3/4" CLEAN GRADED STONE	2	EA
25	SIDEWALK PER MAG STD DTL 230	2561	SY
30	SCUPPER MAG 206, OPENING WIDTH (1.5')	1	EA
31	4' DIA. STORM MANHOLE MAG DTL 522 "SHALLOW MANHOLE" AND C.O.P. DTL P1424 AND P1520	4	EA
32	CONSTRUCT 1' HIGH BERM	1	EA
33	SCUPPER MAG 203, OPENING WIDTH (1.5')	1	EA
34	MOUNTABLE OR ROLL CURB TO DRIVE OVER	35	LF
35	CONSTRUCT HEADWALL PER MAG STD DTL 501	2	EA
36	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT.	22	SY

WATER NOTES

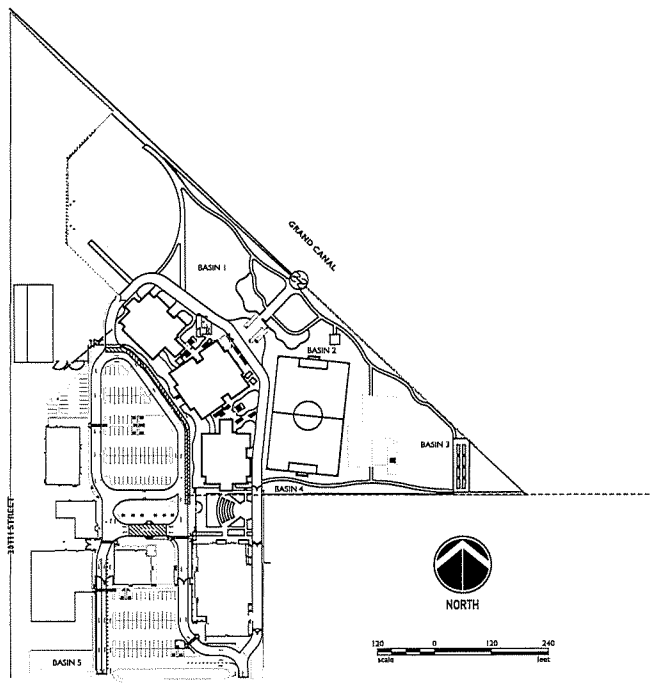
1A	4" (SCH 80) PVC WATERLINE	1087	LF
1B	3" (SCH 80) PVC WATERLINE	154	LF
4	SEE PLUMBING PLANS FOR CONTINUATION	0	NPI
5	CONTRACTOR TO LOCATE THE LOCATION OF WHERE THE EXISTING WATER SERVICE IS AND CONECT NEW 4" PVC WATERLINE IN THAT LOCATION. CONTRACTOR TO CONTACT ENGINEER WITH SIZE AND CONDITION OF EXISTING WATER SERVICE.	0	NPI

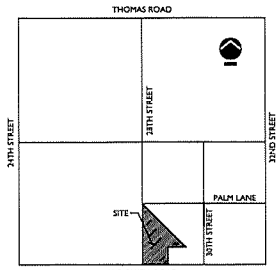
ON-SITE FIRELINE NOTES

1	6" D.I.P. (CL. 50) WATERLINE	116	LF
2	8" D.I.P. (CL. 50) WATERLINE	1985	LF
7	6" FIRE HYDRANT COMPLETE ASSEMBLY INCLUDING GATE VALVE AND TEE PER C.O.P. STD. DETAIL P1360. (WHITE BONNET)	7	EA
8	8" DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY PER C.O.P. STD. DETAIL P1352 AND DETAIL SHEET 1.	2	EA
9	FIRE RISER LOCATION, SEE FIRE SPRINKLER PLAN FOR CONTINUATION	3	EA
13	CONNECT TO EXISTING 8" FIRELINE. CONTRACTOR TO CONTACT ENGINEER WITH SIZE AND CONDITION OF EXISTING FIRELINE.	0	NPI
16	VERTICAL REALIGNMENT OF WATERLINE PER C.O.P. STD DTL P1370	2	EA
17	8" X 8" TEE	1	EA

SEWER NOTES

1	8" (SDR-35) PVC SEWER PIPE. LENGTH AND SLOPE PER PLAN.	1265	LF
3	CONNECT TO EXISTING SEWER LINE. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING SEWER.	0	NPI
4	4' DIA MANHOLE PER MAG STD DTL 420-1 AND C.O.P. STD DTL P1424	1	EA
5	SEWER CLEANOUT	19	EA
6	6" (SDR-35) PVC SEWER SERVICE. LENGTH AND SLOPE PER PLAN.	137	LF
7	SEE MECHANICAL PLUMBING PLANS FOR CONTINUATION	4	EA
8	EXISTING SEWER SERVICE, ASSUMED 2.08% SLOPE	40	LF





VICINITY MAP
NTS

ARCHITECT:
SPS+ ARCHITECTS
ADDRESS: 8681 E. VIA DE NEGOCIO SCOTTSDALE, ARIZONA 85258
PHONE: 480-991-0800
CONTACT: NEIL L. PIERATT
EMAIL: neil.p@spsplusarchitects.com

OWNER:
CREIGHTON SCHOOL DISTRICT
ADDRESS: 2702 E. FLOWER STREET PHOENIX, ARIZONA 85016
PHONE: 602-381-6000

CIVIL ENGINEER:
EPS GROUP, INC.
ADDRESS: 2045 S. VINEYARD AVE., STE. 101 MESA, ARIZONA 85210
PHONE: 480-503-2250
CONTACT: MATT KUEHN
EMAIL: Matt.Kuehn@epsgroupinc.com

LANDSCAPE ARCHITECT:
EPS GROUP, INC.
ADDRESS: 2045 S. VINEYARD AVE., STE. 101 MESA, ARIZONA 85210
PHONE: 480-503-2250
CONTACT: TOM SNYDER
EMAIL: tom.snyder@epsgroupinc.com

GENERAL CONTRACTOR:
CHASSE BUILDING TEAM
ADDRESS: 2400 W. BROADWAY MESA, AZ 85202
PHONE: 480-425-7777
CONTACT: CHRIS LUBECK
EMAIL: clubeck@chasse.us

GEOTECHNICAL ENGINEER:
RAMM
ADDRESS: 2105 SOUTH HARDY DRIVE, SUITE 13 TEMPE, ARIZONA 85282
PHONE: 480-921-8100
CONTACT: KENNETH RICKER
RAMM PROJECT #: G25101

BENCHMARK:
BRASS CAP ON SOUTH SIDE OF IRRIGATION BOX, AT SOUTH END OF SOUTHWEST RETURN, AT THE INTERSECTION OF 28 STREET AND MCDOWELL (SOUTH). HAVING AN ELEVATION OF 1131.06, NGVD-29 CITY OF PHOENIX DATUM.

BASIS OF BEARING:
THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 3 EAST, THE BEARING OF WHICH IS N89°44'12"W PER GDACS SURVEY BOOK 1089, PAGE 41, M.C.R.

CREIGHTON SCHOOL EXPANSION " FIRST FLUSH" REQUIREMENTS

"FIRST FLUSH" REQUIREMENT
-RETAIN THE FIRST 0.5 INCH OF DIRECT RUNOFF FROM A STORM EVENT.

"FIRST FLUSH" VOLUME REQUIRED CALCULATION

$V_{FF} = C*(P/12)*A$

WHERE:
V_{FF}= FIRST FLUSH VOLUME REQUIRED (CF)
V_R= RETENTION VOLUME PROVIDED (CF)
C= RUNOFF COEFFICIENT (1.00)
P= FIRST 0.5 INCH OF DIRECT RUNOFF
A= AREA OF PROJECT SITE IN ACRES (12.16 AC)

V_{FF}= 22,072 CF

RETENTION VOLUME TABLE

BASIN	VOLUME REQUIRED (C.F.)	VOLUME PROVIDED (C.F.)	AS-BUILT VOLUME PROVIDED (C.F.)
1	17,909	9,319	
2	*	2,122	
3	*	9,829	
4	*	917	
5	4,163	4,383	
TOTAL		26,570	

* VOLUME REQUIRED FOR BASINS 2, 3, AND 4 IS ACCOUNTED FOR IN THE VOLUME REQUIRED FOR BASIN 1.

GEOTECHNICAL REPORT

"GEOTECHNICAL ENGINEERING REPORT NEW CAMPUS REPLACEMENT, CREIGHTON ELEMENTARY SCHOOL, 2802 EAST MCDOWELL ROAD, PHOENIX, ARIZONA." RAMM (RICKER ATKINSON MCBEE MORMAN & ASSOCIATES, INC. AUGUST 14, 2017.

COORDINATION LIST:

DESCRIPTION	REPRESENTATIVE	PHONE
WATER & SEWER - CITY OF PHOENIX		
SRP IRRIGATION		
SOUTHWEST GAS		
COX COMMUNICATIONS		
CENTURY LINK		

STAKING NOTES:

CALL THE BLUE STAKE CENTER (263-1100) 48 HOURS BEFORE DIGGING FOR LOCATION OF UNDERGROUND UTILITIES AND NOTIFY SRP.

ALL OFFSET OR REFERENCE STAKES SET BY THE ENGINEER ARE TO BE MAINTAINED INTACT. NO CLAIMS FOR ADDITIONAL COMPENSATION FOR CORRECTIONS SHALL BE PRESENTED TO ANY PARTY UNLESS SUCH STAKES ARE PRESENT AND THEIR ORIGIN IS VERIFIED. IF STAKES ARE NOT MAINTAINED INTACT, ALL CORRECTIONS SHALL BE MADE BY THE CONTRACTOR AT HIS EXPENSE.

ONE SET OF STAKES WILL BE FURNISHED BY THE OWNER FOR THE WATER LINE, WATER SERVICES, FIRE HYDRANT LOCATIONS AND GRADE, SEWER LINES AND SERVICES, CONCRETE SUBGRADE AND A.B.C.. ALL ADDITIONAL STAKING TO BE CHARGED TO THE CONTRACTOR. 24 WORKING HOUR NOTICE IS REQUIRED FOR STAKING BY THE SUBDIVISION ENGINEER.

NOTE:

THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES UPON HIMSELF THE INTERPRETATION OF THE DRAWING OR MAKES REVISIONS TO THEM WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.

SHEET INDEX:

DESCRIPTION		SHEET NO
COVER SHEET	C100	1
GENERAL CONSTRUCTION NOTES	C101	2
CONSTRUCTION DETAILS	C102-C103	3-4
EXISTING CONDITIONS AND DEMOLITION PLAN	C201	5
GRADING & DRAINAGE PLANS	C301-C304	6-9
STORM DRAIN PROFILES	C305	10
UTILITY PLAN	C401-402	11-12
SEWER PROFILES	C403	13
PAVING & HARDSCAPE PLAN	C501-C502	14-15

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT:

IN ACCORDANCE WITH AAC R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.

GRADING QUANTITIES

TOTAL RAW CUT - 11,180 CY
TOTAL RAW FILL - 5,368 CY
TOTAL - 5,812 CY (CUT)

FLOOD PLAIN STATEMENT:

THE SUBJECT SITE IS LOCATED IN FLOOD ZONE "SHADED" "X" WHICH IS IDENTIFIED ON THE FEMA FIRM 04013C2210L AS AREAS OF THE 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD, EFFECTIVE DATE OF OCTOBER 16, 2013.

APPROVALS:

THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF PERMITS. THE CITY NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. THIS COMPLIANCE APPROVAL SHALL NOT PREVENT THE CITY ENGINEER FROM REQUIRING CORRECTIONS OF ERRORS OR OMISSIONS IN PLANS FOUND TO BE IN VIOLATION OF LAW OR ORDINANCES.

CITY OF PHOENIX ENGINEER — DATE

AS-BUILT CERTIFICATION:

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS ARE SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/ LAND SURVEYOR

REGISTRATION NUMBER — DATE

SPS+ ARCHITECTS
SPS+ ARCHITECTS LLP.
8681 E. VIA DE NEGOCIO
SCOTTSDALE, AZ 85258
TEL: 480.991.0800
FAX: 480.991.2623
spsplusarchitects.com

CREIGHTON ELEMENTARY SCHOOL
REPLACEMENT PROJECT
2802 E. MCDOWELL RD
PHOENIX, AZ
COVER SHEET

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REVISIONS

NAME	DATE	DESCRIPTION

100% SUBMITTAL

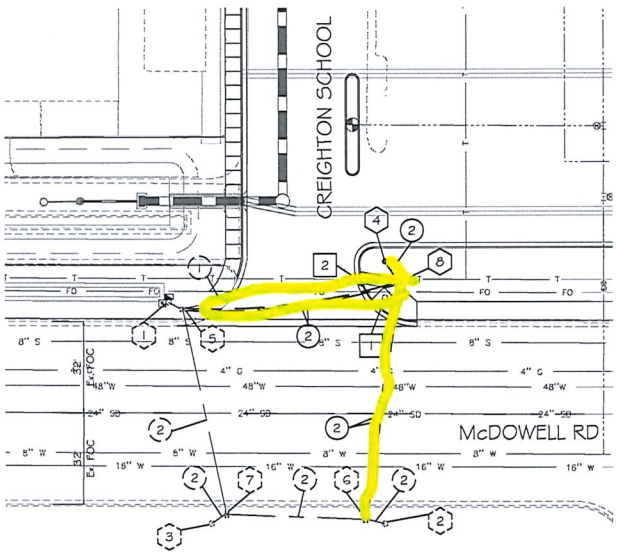
EPS GROUP

REVIEWED BY: EPS
DRAWN BY: CAS

CLINT A. ELLIS 61770 REGISTERED PROFESSIONAL ENGINEER (CIVIL) STATE OF ARIZONA

Call at least two full working days before you begin excavation. ARIZONA 811 Blue Stake, Inc. Dial 8-1-1 or 1-8888-BLUESTAKE (1-7-1-8-3-7-8-2-5-3) In Maricopa County: (602)263-1100

DATE: 10/25/18
JOB No: 17-410
SHEET: C100



1. GENERAL NOTES:

1.1 The contractor shall notify the City Of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to the ordering of any traffic signal equipment. The contractor shall verify that they have the most current set of drawings prior to start and ordering of any equipment.

1.2 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.3 The Contractor shall layout of all ADA ramps, junction boxes and foundation locations for approval by the traffic signal representative. All ADA ramps shall be layed out in white marking paint to determine best traffic signal pole locations.

1.4 A minimum of four (4) feet of clearance is required between all traffic signal poles and the back edge of sidewalk pedestrian ramps.

1.5 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.6 The contractor shall have a competent supervisor capable of reading and thoroughly understanding the plans and specifications and thoroughly experienced in the construction of traffic signals assigned to the project. The Contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. The Contractor shall have a complete set of construction drawings including current City of Phoenix standards and Traffic Signal Details on site at all times during signal & lighting systems construction.

2. CONTRACTOR NOTE FOR CITY OF PHOENIX TRAFFIC SIGNAL POLES

2.1 The contractor shall provide and install number (1) City of Phoenix Type LM foundation, all with anchor cages, nuts bolts per C.O.P. Street Transportation drawing # 10164.

3.

The contractor shall provide the traffic signal equipment as indicated in note 2.1
The contractor is to provide all underground work including, but not limited to:

3.1
- All demolition work, unless otherwise noted
- All trenching
- All foundations (pole, controller and power service pedestal)
- All pole anchor cages, nuts and bolts required for pole foundations installed by the contractor in addition to those specified in note 2.1
- All junction boxes with 18" of sump
- All conduit runs
- Provide and install the power service pedestal
- Provide and install conduit runs from PSP to Utility Company feed

3.2 All underground conduits shall be schedule 40 rigid polyvinyl chloride (PVC) installed 24 inches to 30 inches below finished grade with the exception of loop lead-in conduits, which shall be schedule 40 rigid PVC installed in accordance with the latest City of Phoenix Standard Detail Sheet. All conduits shall be installed in straight lines (unless approved by the Signal Shop Inspector) junction box to junction box or junction box to signal equipment foundation with one 90 degree sweep on each end as specified in the plans. All conduits entering junction boxes shall be vertical. Conduits in all foundations shall be located as close as possible to center of the foundation and vertical with foundation below the bottom of the cover. All conduit ends except those in the controller cabinet foundation will be provided with a "bell end" fitting of appropriate size.

3.3 Removal of existing streetlights:

The contractor shall:
- Request de-energization of all streetlights listed for removal.
- Provide complete removal of streetlight pole, mast arm and luminaire
- Properly dispose of all streetlight material

4. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:

- All poles and mast arms
- All signal heads
- All pedestrian heads
- All APS push buttons
- All controllers
- All LED luminaires
- All illuminated street signs
- All signal wiring
- All loop and non-invasive detectors
- All pole grouting
- All cameras
- All radios

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

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WRIGHT PROJECT # 19087

Existing FOUNDATION SCHEDULE

NO.	TYPE	FROM M.O.F. SCHOOL DRIVEWAY	FROM M.O.F. McDOWELL RD
1	M	EXISTING	EXISTING
2	M	EXISTING	EXISTING
3	M	EXISTING	EXISTING

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	FROM M.O.F. SCHOOL DRIVEWAY	FROM M.O.F. McDOWELL RD
4	LM	00.0 ft. EAST	53.6 ft. North

NOTE: Distance is perpendicular to roadway center line

Existing JUNCTION BOX SCHEDULE

NO.	TYPE	FROM M.O.F. SCHOOL DRIVEWAY	FROM M.O.F. McDOWELL RD
5	5	EXISTING	EXISTING
6	5	EXISTING	EXISTING
7	5	EXISTING	EXISTING

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	FROM M.O.F. SCHOOL DRIVEWAY	FROM M.O.F. McDOWELL RD
8	5	00.0 ft. East	46.2 ft. North

NOTE: Distance is perpendicular to roadway center line

INSTALL

1 thru 4 See Foundation Schedule

5 thru 8 See Junction Box Schedule

1 2" Schedule 40 PVC with #10 copper pull wire bent over lip of stubout

REMOVE

1 Traffic Signal Foundation - 1

2 Junction Box - 1

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TRAFFIC SIGNAL PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

DATE

STREET TRANSPORTATION DEPARTMENT DIRECTOR

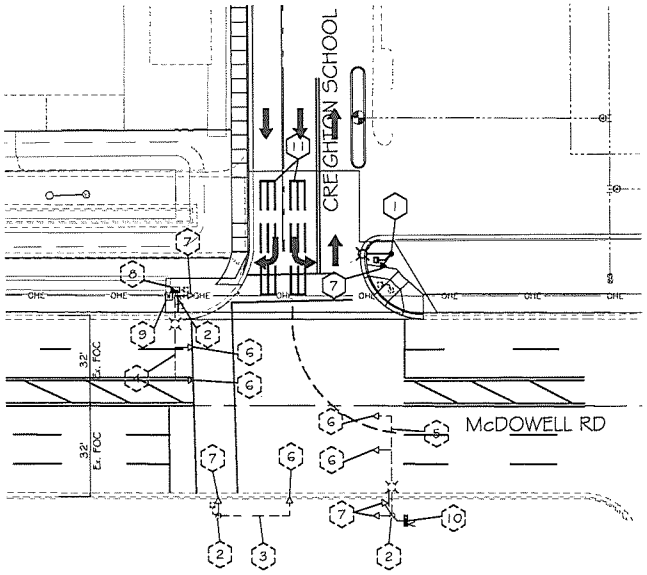
DATE

McDOWELL RD & CREIGHTON SCHOOL FOUNDATION

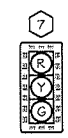
KIVA#: -----	CFS#: -----	FILE NO: -----
DR: WTB	DES: WTB	CK: AMB
DATE: MAR 2019	DATE:	DATE:
SCALE: 1" = 20'	QS #: -----	SHEET NO: 1 / TOTAL SHEETS 3

SIGNAL PLAN: McDOWELL RD & CREIGHTON SCHOOL

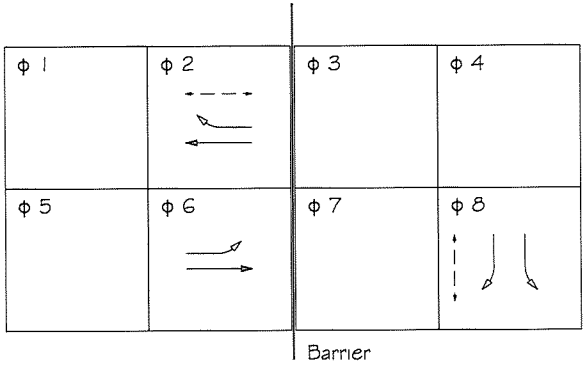
KIVA#: ----- CFS#: ----- FILE #: -----



Type "F1" with Plumbizer
3 Section 12" Vehicle Signal Head
Mounted on Signal Mast Arm



Type "F"
3 Section 12" Vehicle Signal Head
Mounted on Signal Pole



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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

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INSTALL (BY CONTRACTOR)

1. Traffic Signal Pole Type LM With 5' Riser - 1 New
2. Traffic Signal Pole Type M - 3 Existing
3. 25' Signal Mast Arm - 1 Existing
4. 30' Signal Mast Arm - 1 Existing
5. 35' Signal Mast Arm - 1 Existing
6. Type F1 12" Signal Head - 5 Existing (Mast Arm Mount with Plumbizer)
7. Type F 12" Signal Head - 1 New, 4 Existing (Pole Mount)
8. 8 Phase, Pole-mounted Controller Cabinet - 1 Existing
9. Pole-mounted Power Service Pedestal - 1 Existing
10. Wireless Radio - 1 Existing
11. 40' Vehicle Detection Loop - 2 New

Luminaire
- LED - 1 New
- HPS - 2 Ex

Signs at Signal
- Illuminated Street Sign - 2 Existing
- Pedestrian Head - 0 New, 0 Existing
- Pedestrian Push Button - 0 New, 0 Existing

Note:
Adjust all signal head placement as shown on plan.

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TRAFFIC SIGNAL PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

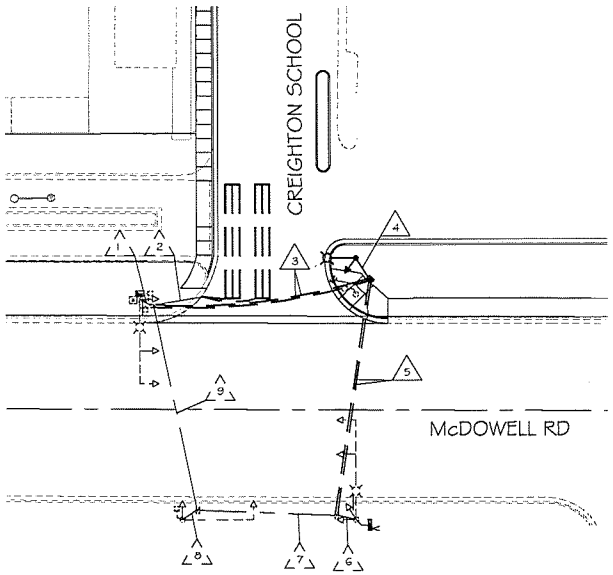
McDOWELL RD & CREIGHTON SCHOOL
EQUIPMENT

APPROVED BY:

FHWA#: -----	CFST: -----		FILE NO: -----	
DR: WTB	DSN: WTB	CK: KNR	SHEET NO:	TOTAL SHEETS
DATE: MAR 2011	DATE:	DATE:		
SCALE: 1" = 20'		QS #: -----	2	3

SIGNAL PLAN: McDOWELL RD & CREIGHTON SCHOOL

KIVA#: ----- CFST: ----- FILE #: -----



1 J-Box to M Pole (15 lf)

CONDUIT 1
#10 Bare Copper 5C IMSA Cable 20C IMSA Cable

2 J-Box to Loop stub out (15 lf)

CONDUIT 1
#10 Bare Copper #10 White THHN 5C IMSA Cable 20C IMSA Cable

3 J-Box to J-Box (75 lf)

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 White THHN 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper

4 J-Box to LM Pole (15 lf)

CONDUIT 1
#10 Bare Copper #10 White THHN 5C IMSA Cable 20C IMSA Cable

5 J-Box to J-Box (75 lf)

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 White THHN 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper

6 J-Box to M Pole (15 lf)

CONDUIT 1
#10 Bare Copper #10 White THHN 5C IMSA Cable 20C IMSA Cable

7 J-Box to J-Box (75 lf)

CONDUIT 1
#10 Bare Copper #10 White THHN 5C IMSA Cable 42C IMSA Cable

8 J-Box to M Pole (15 lf)

CONDUIT 1
#10 Bare Copper 5C IMSA Cable 20C IMSA Cable

9 J-Box to J-Box (75 lf)

CONDUIT 1
#10 Bare Copper #10 White THHN 5C IMSA Cable 42C IMSA Cable

WIRING DIAGRAM NOTES

New Wire

Existing Wire

N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

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TRAFFIC SIGNAL PLANS

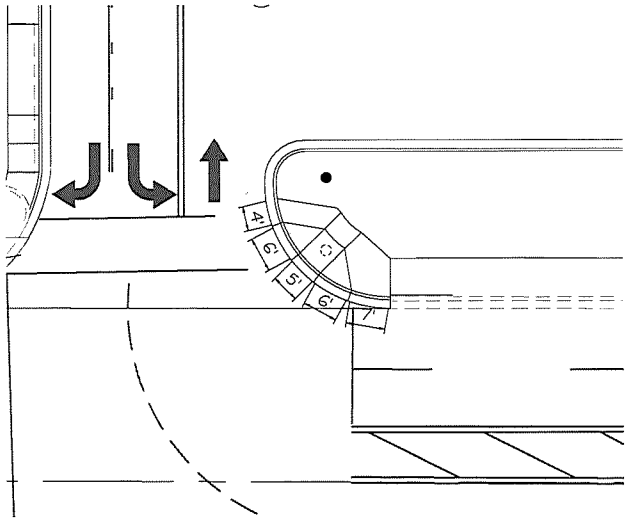
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

McDOWELL RD & CREIGHTON SCHOOL
WIRING

APPROVED BY:

FINAL: -----	CPST: -----		FILE NO: -----	
DR: WTB	DES: WTB	CK: AMB	SHEET NO:	TOTAL SHEETS
DATE: MAR. 2019	DATE:	DATE:		
SCALE: 1" = 20'		QS #: -----	3	3

NO PUSH BUTTON IS REQUIRED ON THE NORTH EAST CORNER BECAUSE THE EAST-WEST CROSSWALK WILL ALWAYS BE GIVEN A WALK INDICATION WHENEVER THERE IS GREEN LIGHT FOR THE EAST-WEST VEHICULAR MOVEMENT. THERE IS NO NORTH-SOUTH CROSSWALK ON THIS CORNER.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

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KIVA#: ------ CPST: ------ FILE #: ------

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TRAFFIC SIGNAL PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

McDOWELL RD & CREIGHTON SCHOOL
RAMPS

APPROVED BY:

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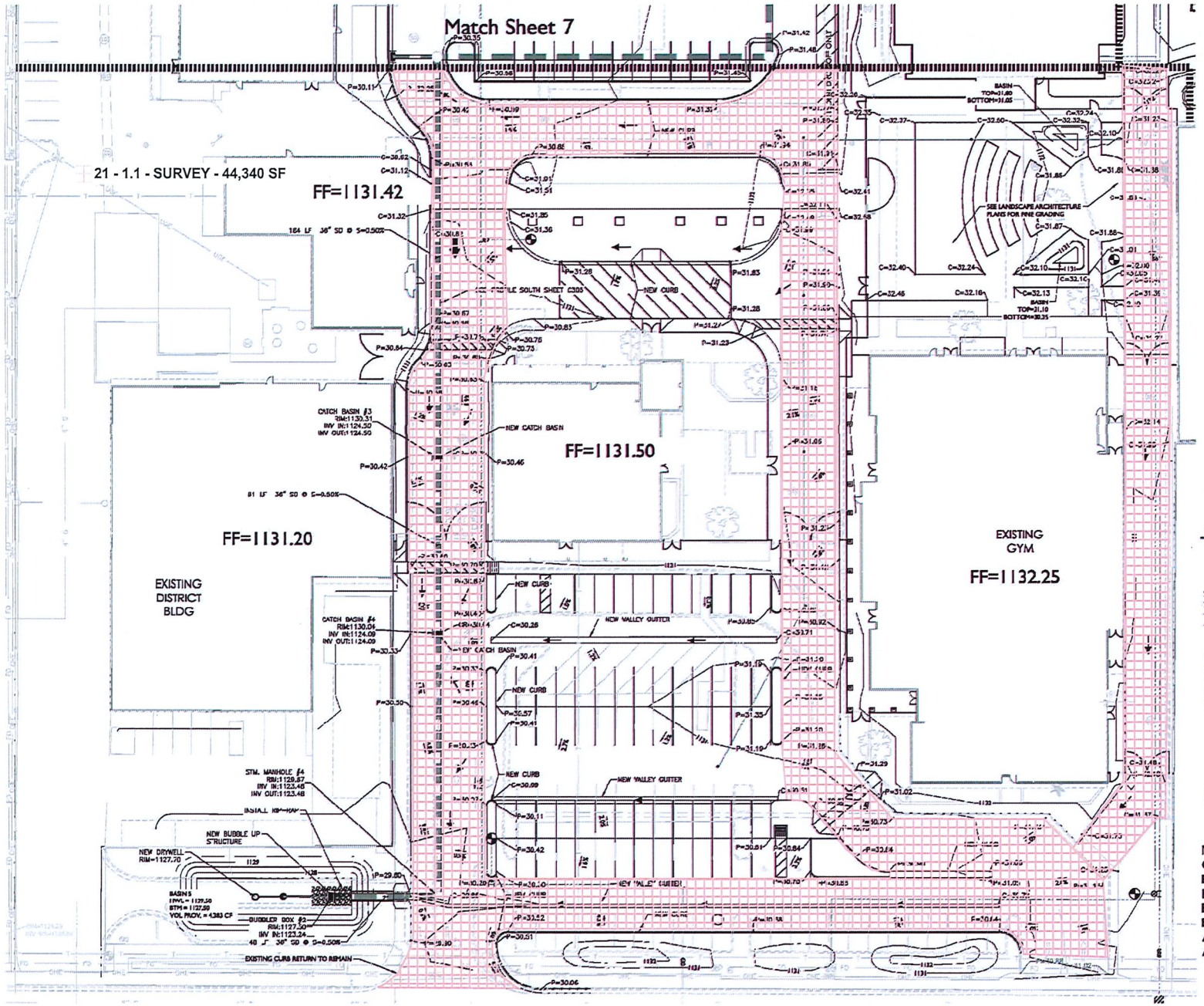
KIVA#: ------	CPST: ------		FILE NO: ------	
DR: WTB	DES: WTB	CK: AMP	SHEET NO:	TOTAL SHEETS
DATE: MAR 2011	DATE	DATE		
SCALE: 1" = 20'		GS #: ------	1	3

17-410 Creighton Elementary School



NORTH

LEGEND

- PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

NOTE: CAUTION CONTRACTOR TO VERIFY EXISTING UTILITIES AND KEEP REMAINING BUILDINGS IN SERVICE. EXISTING UTILITIES AND STORM DRAIN SHOW ARE SCHEMATIC ONLY.

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CREIGHTON ELEMENTARY SCHOOL
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2802 E. MCDOWELL RD
PHOENIX, AZ
GRADING & DRAINAGE PLAN

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DRAWN BY: CAB

ARIZONA 811

DATE: 10/25/18
JOB No: 17-410
SHEET: C301
6 of 15

Oct 25, 2018 4:27pm S:\Projects\2017\17-410\Civil_Schematic Design_DD Set\17-410 - C301.dwg

CREIGHTON SUBMITTAL SET (16) (30% of Scale); Takeoff in Active Area: All Areas; Creighton Elementary 1st City Submittal; Creighton Projects; 4/26/2019 10:05 AM

17-410 Creighton Elementary School

Oct 25, 2018 4:28pm S:\Projects\2017\17-410\civil_Schematic Design_DD Set\17-410 - C302.dwg

FF=1131.10

20 - 1.1 - SURVEY - 34,399 SF

FF=1132.69

FF=1132.69

FF=1132.69

FF=1131.05

Match Sheet 9

Match Sheet 8

Match Sheet 6

NORTH

LEGEND

- PROPOSED SIDEWALK ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
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CREIGHTON ELEMENTARY SCHOOL
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GRADING & DRAINAGE PLAN

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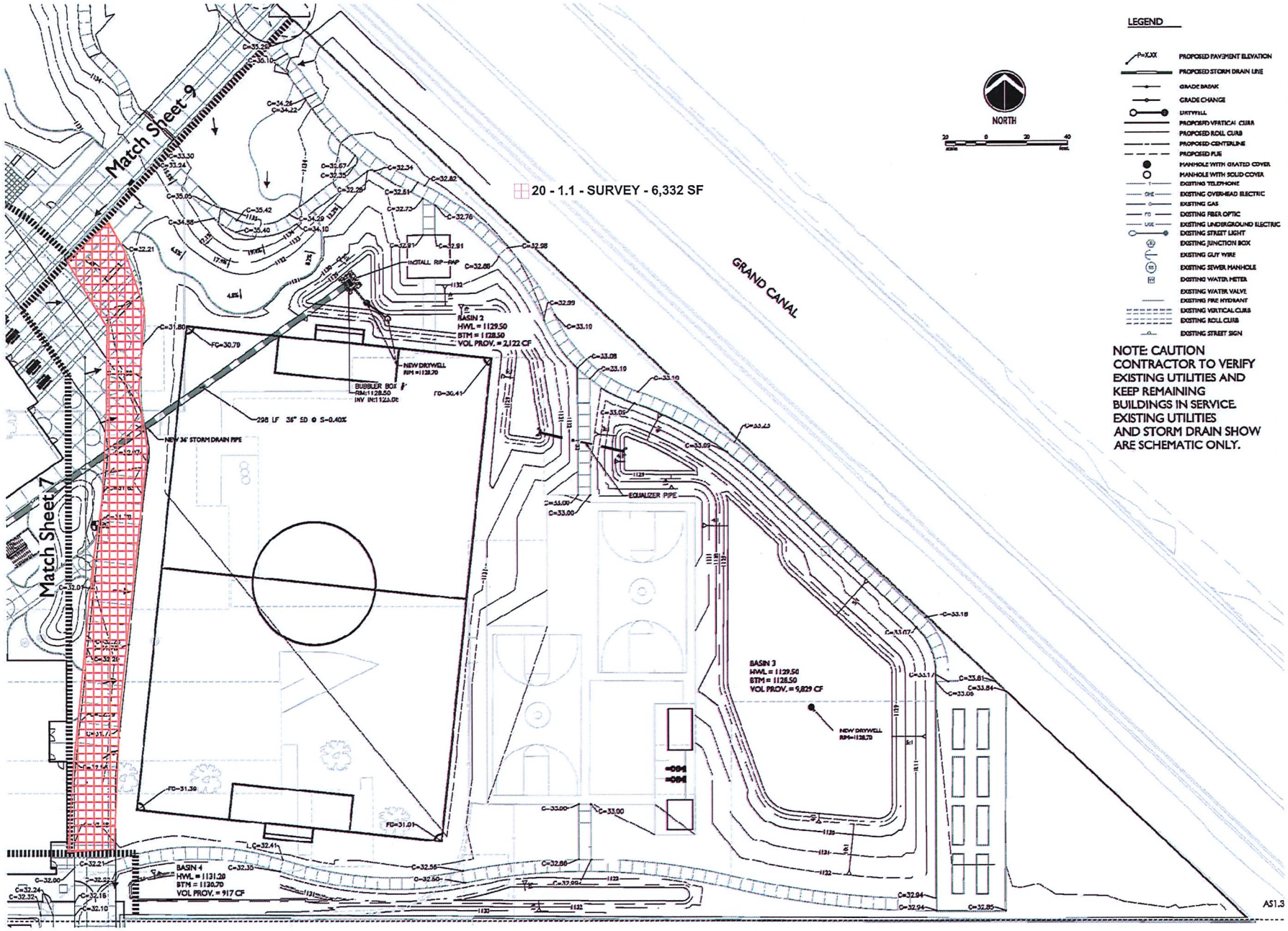
JOB No: 17-410
SHEET: C302
7 of 15

17-410 Creighton Elementary School



LEGEND

- PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
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- MANHOLE WITH GRATED COVER
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- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

NOTE: CAUTION CONTRACTOR TO VERIFY EXISTING UTILITIES AND KEEP REMAINING BUILDINGS IN SERVICE. EXISTING UTILITIES AND STORM DRAIN SHOW ARE SCHEMATIC ONLY.

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GRADING & DRAINAGE PLAN

100% SUBMITTAL

EPS GROUP

REVIEWED BY: EPS
DRAWN BY: CAB

ARIZONA 811

DATE: 10/25/18
JOB No: 17-410
SHEET: C303

CREIGHTON SUBMITTAL SET (18) (30% of Scale); Takeoff in Active Area: All Areas; Creighton Elementary 1st City Submittal; Creighton Projects; 4/26/2019 10:07 AM

17-410 Creighton Elementary School

Oct 25, 2018 4:28pm S:\Projects\2017\17-410\Dwg_Schematic Design_DD Set\17-410 - C304.dwg

NORTH

NOTE: CAUTION CONTRACTOR TO VERIFY EXISTING UTILITIES AND KEEP REMAINING BUILDINGS IN SERVICE. EXISTING UTILITIES AND STORM DRAIN SHOW ARE SCHEMATIC ONLY.

LEGEND

- P=X.XX — PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
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- EXISTING TELEPHONE
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- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

20 - 1.1 - SURVEY - 6,404 SF

Match Sheet 7

Match Sheet 8

FF=1131.10

FF=1132.69

NEW DRYWELL RIM=1128.70

BASIN 1
HWL= 1129.50
BTM = 1128.50
VOL PROV. = 9319 CF

BTM = 1128.50

SPS+ ARCHITECTS

SPS+ ARCHITECTS LLP,
8681 E. VIA DE NEGOCIO
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FAX: 480.991.2623
info@spsarchitects.com

CREIGHTON ELEMENTARY SCHOOL
REPLACEMENT PROJECT
2802 E. MCDOWELL RD
PHOENIX, AZ
GRADING & DRAINAGE PLAN

1:48 DRAWING S AN INSTRUMENT OF SERVICE & IS THE PROPERTY OF SPS+ARCHITECTS LLP & MAY NOT BE REPRODUCED OR REPRODUCTIONS HEREOF USED WITHOUT WRITTEN PERMISSION.

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9 of 15

17-410 Creighton Elementary School

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Match Sheet 7

21 - 1.1 - DEMO - 44,340 SF

FF=1131.42

FF=1131.50

FF=1131.20

EXISTING DISTRICT BLDG

EXISTING GYM

FF=1132.25

NEW CURB

NEW VALLEY GUTTER

NEW CATCH BASIN

CATCH BASIN #3 RIM:1130.31 INV IN:1124.50 INV OUT:1124.50

CATCH BASIN #4 RIM:1130.04 INV IN:1124.09 INV OUT:1124.09

STM. MANHOLE #4 RIM:1129.87 INV IN:1123.48 INV OUT:1123.48

NEW BUBBLE UP STRUCTURE

NEW DRYWELL RIM=1127.70

BASIN 5 INVL=1129.50 STM=1127.50 VOL PROV.=4383 CF

BUBBLER BOX #2 RIM:1127.50 INV IN:1123.24

EXISTING CURB RETURN TO REMAIN

SEE LANDSCAPE ARCHITECTURE PLANS FOR FINE GRADING

BASIN TOP=31.85 BOTTOM=31.05

BASIN TOP=31.10 BOTTOM=30.35

NORTH

LEGEND

- P=X.XX PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

NOTE: CAUTION CONTRACTOR TO VERIFY EXISTING UTILITIES AND KEEP REMAINING BUILDINGS IN SERVICE. EXISTING UTILITIES AND STORM DRAIN SHOW ARE SCHEMATIC ONLY.

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CERTIFICATE 51776 CLINT A. BILLS

Call at least two full working days before you begin excavating. ARIZONA 811

DATE: 10/25/18
JOB No: 17-410
SHEET: C301
6 of 15

ebills

17-410 Creighton Elementary School

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FF=1131.10

20 - 1.1 - DEMO - 34,399 SF

FF=1132.69

FF=1132.69

FF=1132.69

FF=1131.05

Match Sheet 9

Match Sheet 9

Match Sheet 6

NORTH

LEGEND

- P=X.XX PROPOSED SIDEWALK ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
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JOB No: 17-410

SHEET: C302

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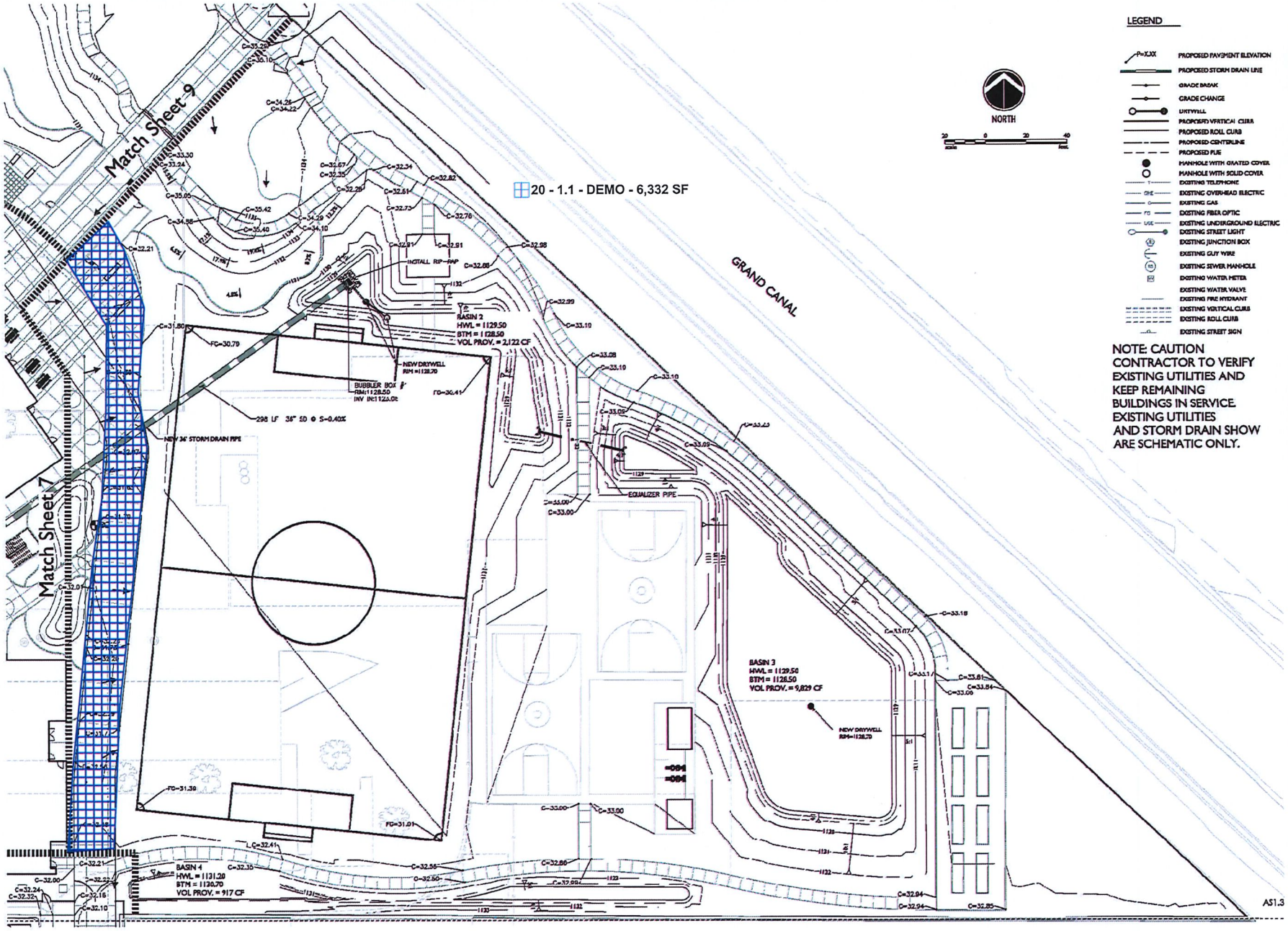
17-410 Creighton Elementary School



LEGEND

- PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
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CREIGHTON SUBMITTAL SET (18) (30% of Scale); Takeoff in Active Area: All Areas; Creighton Elementary 1st City Submittal; Creighton Projects; 4/26/2019 10:14 AM

17-410 Creighton Elementary School

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NORTH

NOTE: CAUTION CONTRACTOR TO VERIFY EXISTING UTILITIES AND KEEP REMAINING BUILDINGS IN SERVICE. EXISTING UTILITIES AND STORM DRAIN SHOW ARE SCHEMATIC ONLY.

LEGEND

- PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED FLOW
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

20 - 1.1 - DEMO - 6,404 SF

Match Sheet 7

Match Sheet 8

FF=1131.10

FF=1132.69

NEW DRYWELL RIM=1128.70

BASIN 1 HWL=1129.50 BTM=1128.50 VOL PROV.=9319 CF

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9 of 15

17-410 Creighton Elementary School

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Match Sheet 7

21 - 1.1 - HEAVY DUTY ASPHALT PAVING - 41,500 SF

FF=1131.42

FF=1131.50

FF=1131.20

EXISTING DISTRICT BLDG

EXISTING GYM

FF=1132.25

NEW CURB

NEW VALLEY GUTTER

NEW CATCH BASIN

CATCH BASIN #3
RIM:1130.31
INV IN:1124.50
INV OUT:1124.50

CATCH BASIN #4
RIM:1130.04
INV IN:1124.09
INV OUT:1124.09

STM. MANHOLE #4
RIM:1129.87
INV IN:1123.48
INV OUT:1123.48

NEW BUBBLE UP STRUCTURE

NEW DRYWELL
RIM=1127.70

BASIN 3
INVL = 1127.50
BTM = 1127.50
VOL PROV. = 4383 CF

BUBBLER BOX #2
RIM:1127.30
INV IN:1123.24

EXISTING CURB RETURN TO REMAIN

SEE LANDSCAPE ARCHITECTURE PLANS FOR FINE GRADING

NORTH

LEGEND

- P=X.XX PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
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- EXISTING STREET LIGHT
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CREIGHTON ELEMENTARY SCHOOL
REPLACEMENT PROJECT
2802 E. MCDOWELL RD
PHOENIX, AZ

GRADING & DRAINAGE PLAN

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17-410 Creighton Elementary School

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FF=1131.10

20 - 1.1 - HEAVY DUTY ASPHALT PAVING - 19,952 SF

FF=1132.69

FF=1132.69

FF=1132.69

FF=1131.05

Match Sheet 9

Match Sheet 8

Match Sheet 6

NORTH

LEGEND

- P=X.XX PROPOSED SIDEWALK ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- OHE EXISTING OVERHEAD ELECTRIC
- G EXISTING GAS
- FO EXISTING FIBER OPTIC
- UGE EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
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17-410 Creighton Elementary School

Match Sheet 7

FF=1131.42

22 - 4.1 - CONCRETE CURB AND GUTTER - 1,496 LF

FF=1131.50

FF=1131.20

EXISTING DISTRICT BLDG

EXISTING GYM

FF=1132.25

SEE LANDSCAPE ARCHITECTURE PLANS FOR FINE GRADING

SEE PROFILE SOUTH SHEET C505

NEW CURB

NEW CATCH BASIN

NEW VALLEY GUTTER

NEW DRYWELL

NEW BUBBLE UP STRUCTURE

EXISTING CURB RETURN TO REMAIN

NORTH

LEGEND

- P=XXX PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
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- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
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17-410 Creighton Elementary School

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FF=1131.10

22 - 4.1 - CONCRETE CURB AND GUTTER - 1,043 LF

FF=1132.69

FF=1132.69

FF=1132.69

FF=1131.05

20 LF 18" SD @ S=4.00%

72 LF 36" SD @ S=0.40%

133 LF 36" SD @ S=0.40%

67 LF 36" SD @ S=0.40%

NEW 36" STORM DRAIN PIPE

NEW 12" STORM DRAIN PIPE

CATCH BASIN #1
RIM:1130.08
INV OUT:1126.23

CATCH BASIN #2
RIM:1130.50
INV IN:1124.25
INV OUT:1124.25

STM. MANHOLE #1
RIM:1130.35
INV IN:1124.52
INV OUT:1124.52

STM. MANHOLE #2
RIM:1131.43
INV IN:1124.81
INV OUT:1124.81

Match Sheet 6

Match Sheet 8

Match Sheet 9

NORTH

LEGEND

- P=X.XX PROPOSED SIDEWALK ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
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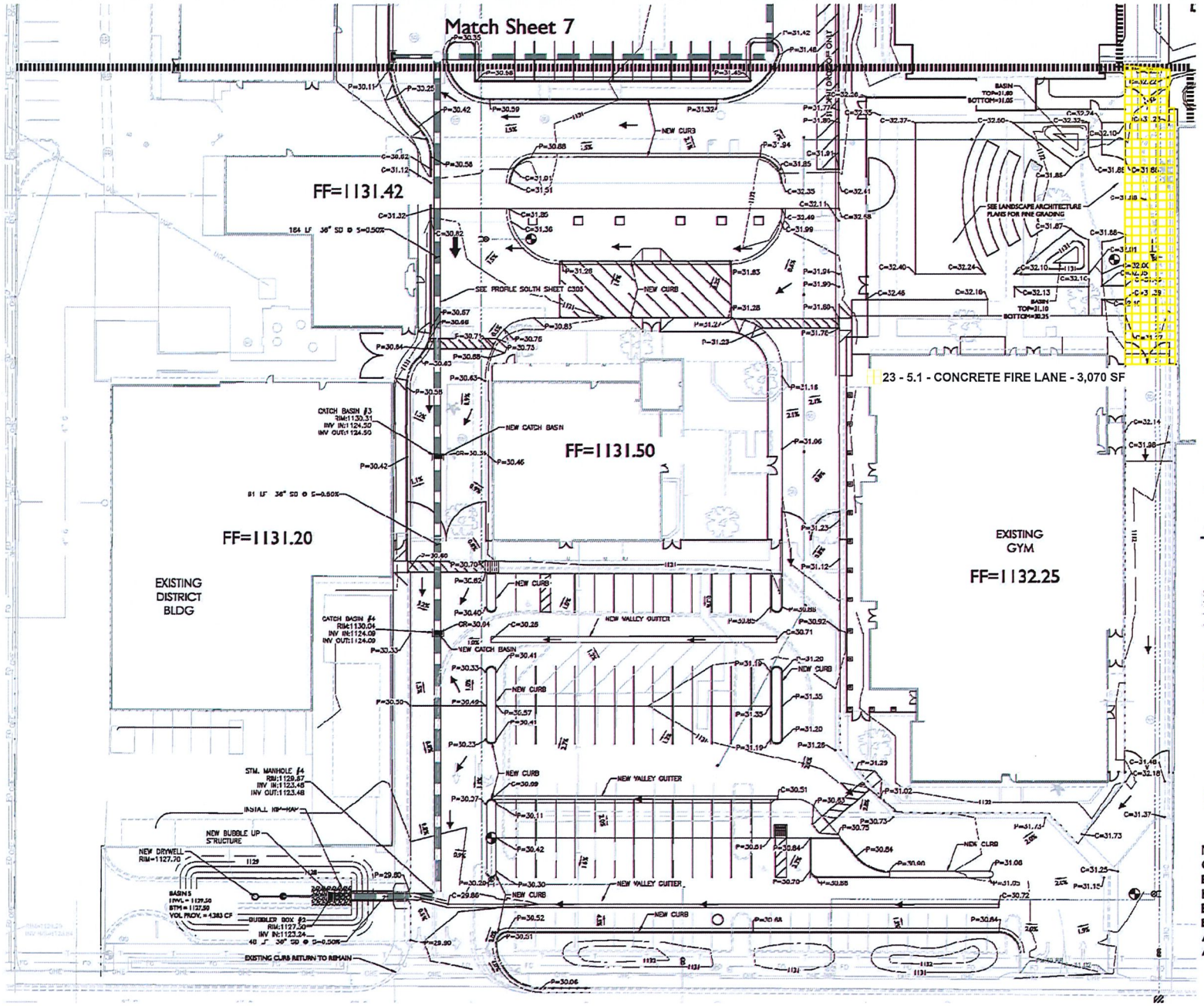
7 of 15

17-410 Creighton Elementary School



NORTH

LEGEND

- PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
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DATE: 10/25/18
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17-410 Creighton Elementary School

23 - 5.1 - CONCRETE FIRE LANE - 9,303 SF

FF=1131.10

FF=1132.69

FF=1132.69

FF=1131.05

FF=1132.69

Match Sheet 9

Match Sheet 8

Match Sheet 6

NORTH

LEGEND

- P=X.XX PROPOSED SIDEWALK ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
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- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

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CREIGHTON ELEMENTARY SCHOOL
REPLACEMENT PROJECT
2802 E. MCDOWELL RD
PHOENIX, AZ

GRADING & DRAINAGE PLAN

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17-410 Creighton Elementary School

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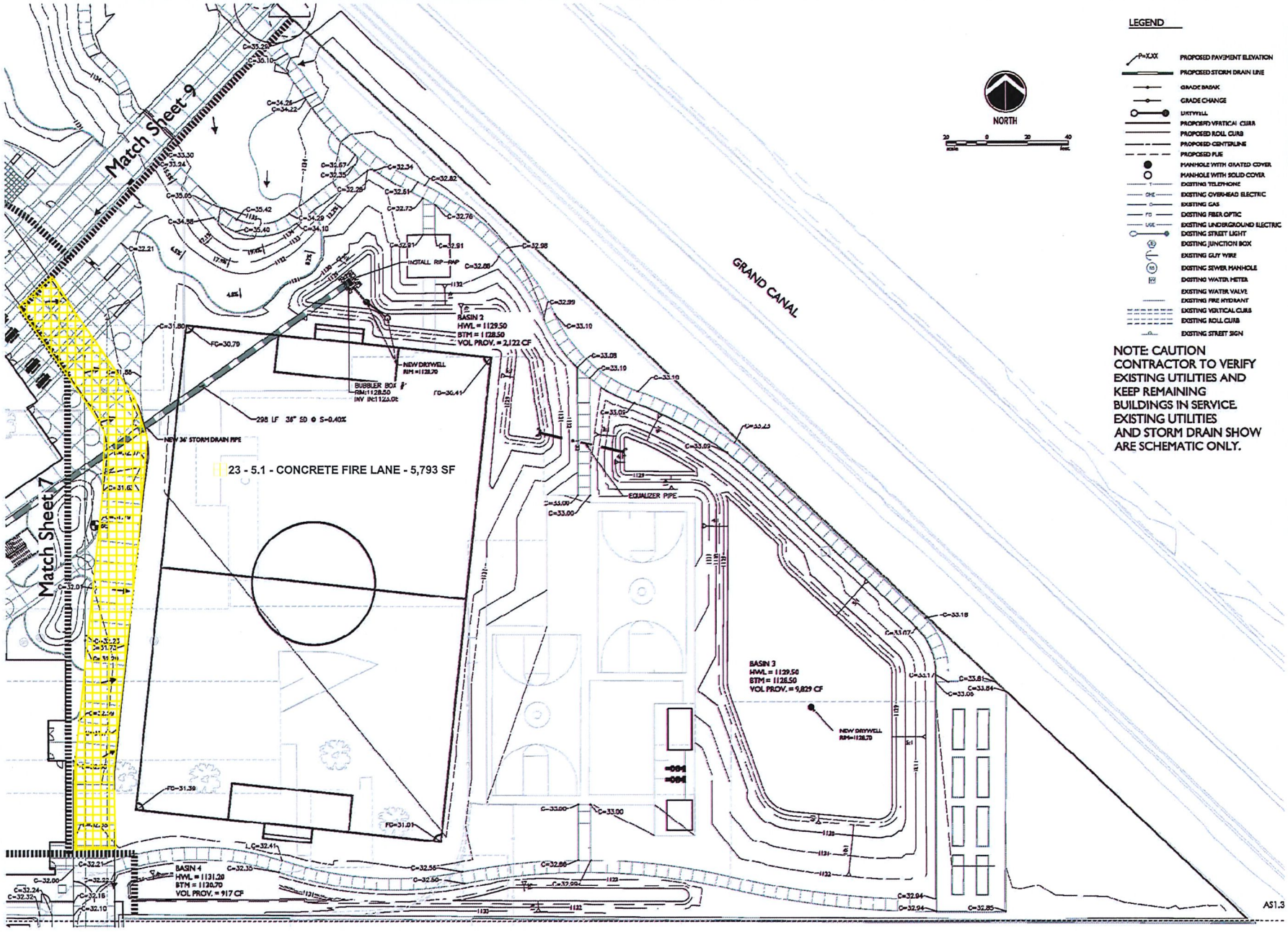

LEGEND

- P=XXX PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED FLOW
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
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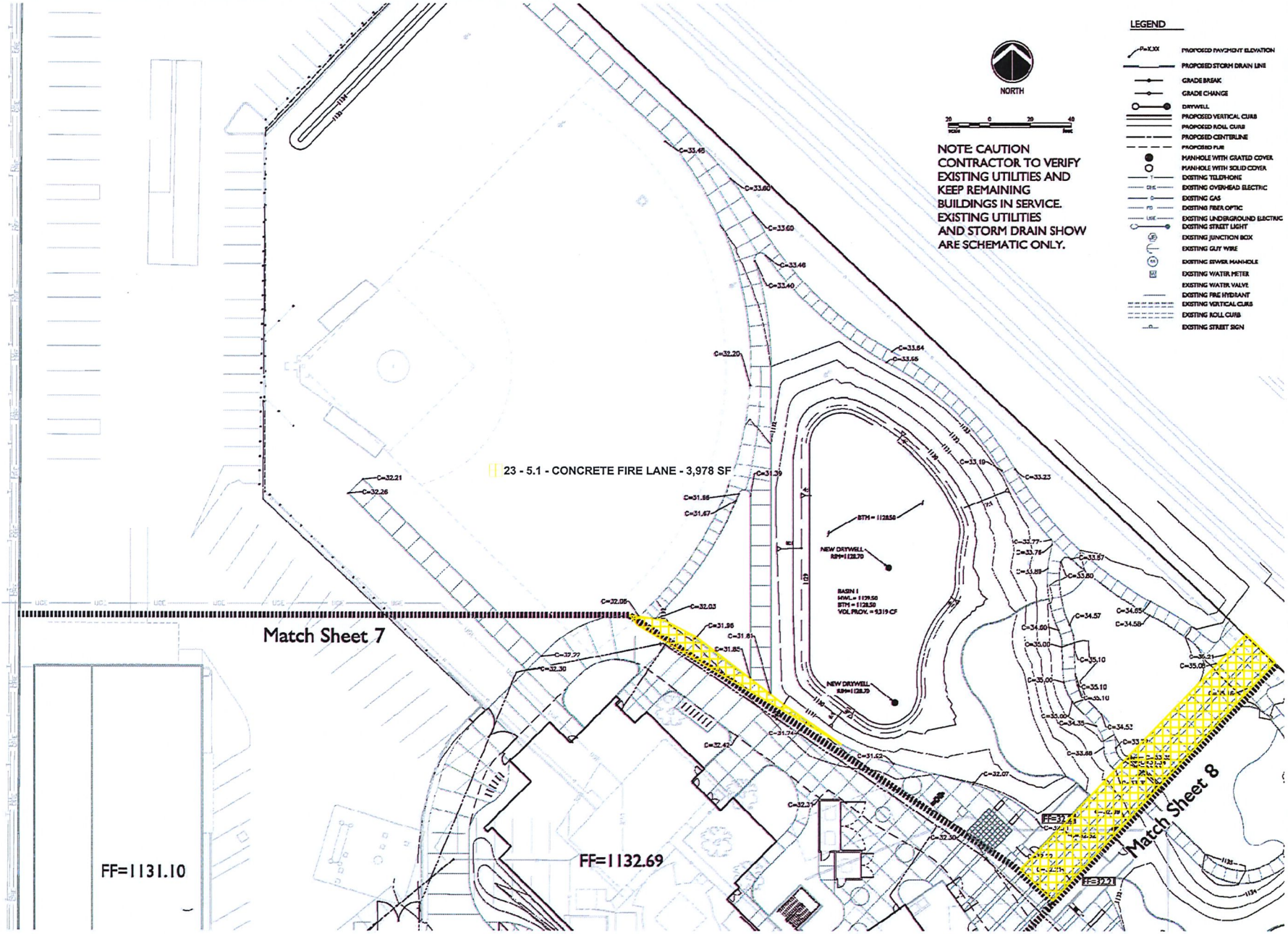
17-410 Creighton Elementary School



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Match Sheet 7

21 - 1.1 - EARTHWORK - 44,340 SF

FF=1131.42

FF=1131.50

FF=1131.20

EXISTING DISTRICT BLDG

EXISTING GYM

FF=1132.25

NEW CURB

NEW CATCH BASIN

NEW VALLEY GUTTER

CATCH BASIN #3 RIM:1130.31 INV IN:1124.50 INV OUT:1124.50

CATCH BASIN #4 RIM:1130.04 INV IN:1124.09 INV OUT:1124.09

STM. MANHOLE #4 RIM:1129.67 INV IN:1123.48 INV OUT:1123.48

NEW BUBBLE UP STRUCTURE

NEW DRYWELL RIM=1127.70

BASIN 1 INVL = 1129.50 BTM = 1127.50 VOL PROV. = 4383 CF

BUBBLER BOX #2 RIM:1127.50 INV IN:1123.24

EXISTING CURB RETURN TO REMAIN

SEE LANDSCAPE ARCHITECTURE PLANS FOR FINE GRADING

NORTH

LEGEND

- P=X.XX PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

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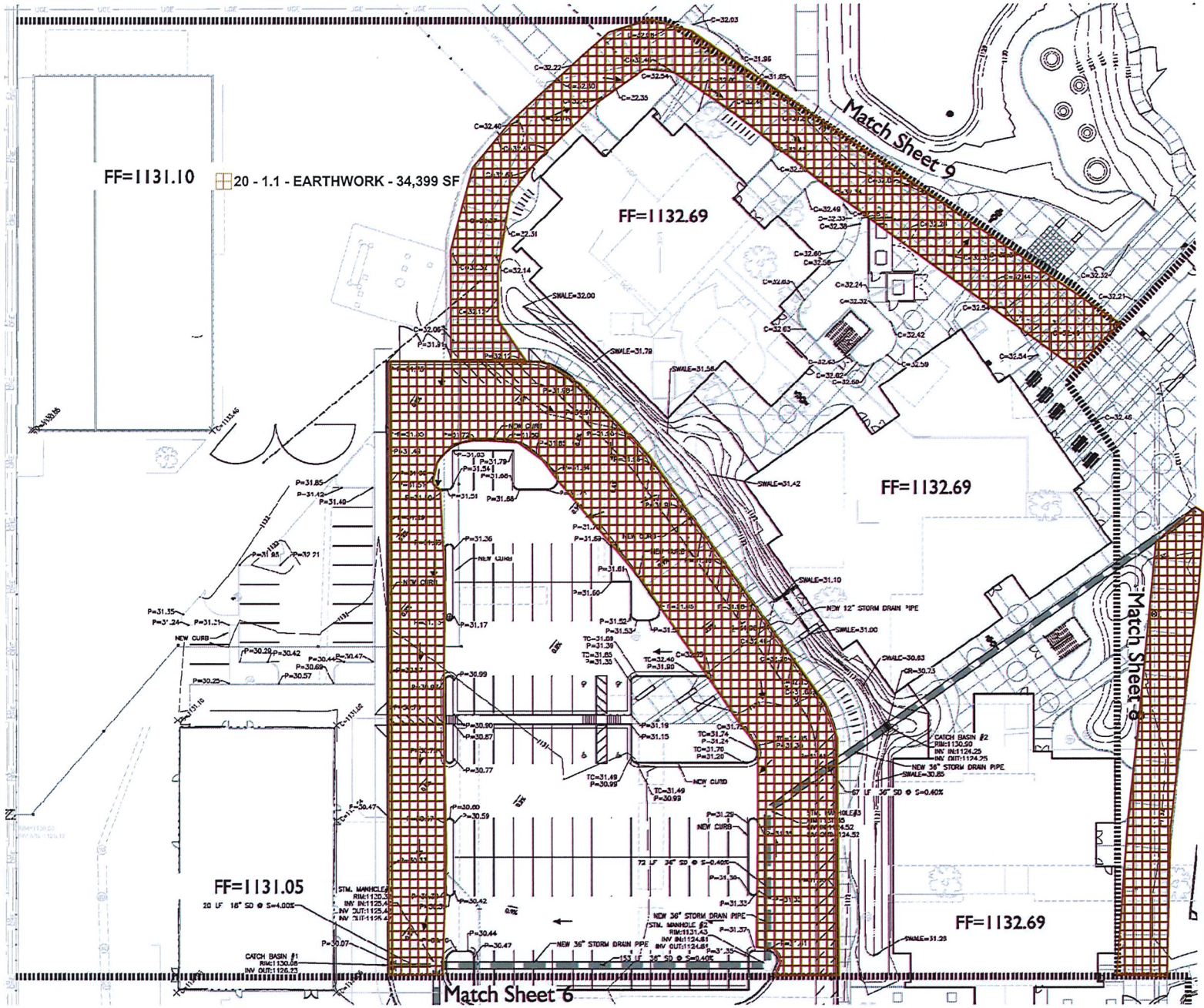
17-410 Creighton Elementary School



LEGEND

- P=X.XX PROPOSED SIDEWALK ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
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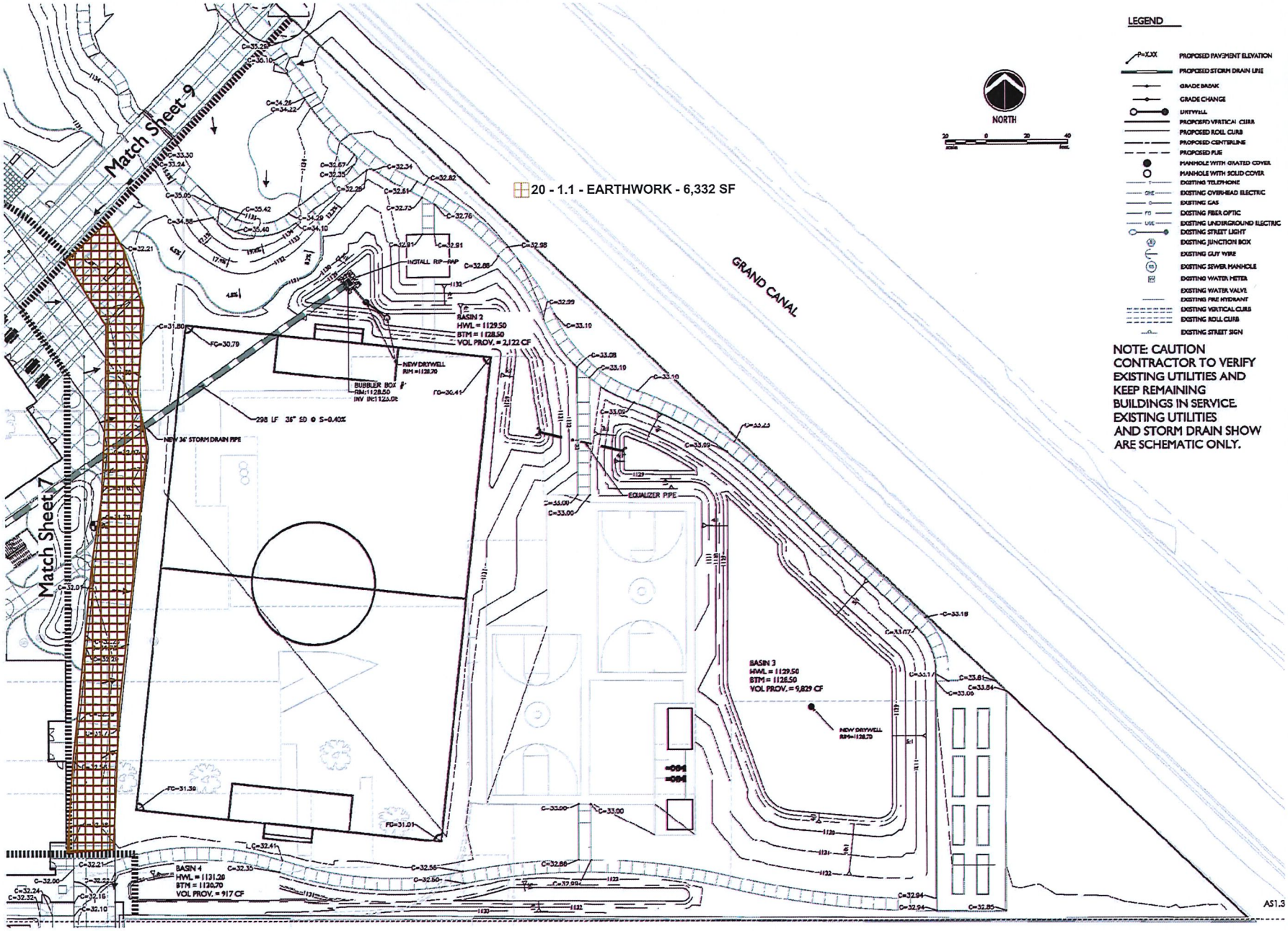
17-410 Creighton Elementary School



LEGEND

- PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
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17-410 Creighton Elementary School

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NORTH

20 0 20 40
SCALE

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LEGEND

- PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED FLOW
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
- EXISTING TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING STREET LIGHT
- EXISTING JUNCTION BOX
- EXISTING GUY WIRE
- EXISTING SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING VERTICAL CURB
- EXISTING ROLL CURB
- EXISTING STREET SIGN

20 - 1.1 - EARTHWORK - 6,404 SF

Match Sheet 7

Match Sheet 8

FF=1131.10

FF=1132.69

NEW DRYWELL RIM=1128.70

BASIN 1
HWL= 1129.50
BTM = 1128.50
VOL PROV. = 9319 CF

BTM = 1128.50

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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 51778 GUNT A. BILLS ARIZONA U.S.A.

Call at least two full working days before you begin excavation. ARIZONA 811 Blue Stakes, Inc. Blue Stakes of Yuma

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17-410 Creighton Elementary School

Match Sheet 7

24 - 1.5 - 36' GATE - 1 EA
25 - 1.5 - 28' GATE - 1 EA
26 - 1.5 - 22' GATE - 1 EA

FF=1131.42

FF=1131.50

FF=1131.20

FF=1132.25

EXISTING DISTRICT BLDG

EXISTING GYM

NEW CURB

NEW CATCH BASIN

NEW VALLEY GUTTER

SEE LANDSCAPE ARCHITECTURE PLANS FOR FINE GRADING

SEE PROFILE SOLTH SHEET C305

EXISTING CURB RETURN TO REMAIN

NORTH

LEGEND

- P=X.XX PROPOSED PAVEMENT ELEVATION
- PROPOSED STORM DRAIN LINE
- GRADE BREAK
- GRADE CHANGE
- DRYWELL
- PROPOSED VERTICAL CURB
- PROPOSED ROLL CURB
- PROPOSED CENTERLINE
- PROPOSED PUE
- MANHOLE WITH GRATED COVER
- MANHOLE WITH SOLID COVER
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