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WOOD ELEMENTARY SCHOOL

TEMPE ELEMENTARY SCHOOL DISTRICT
19-002
PERMIT NUMBER
BUILDING A&B: BP191477 - BUILDING C: BP192160

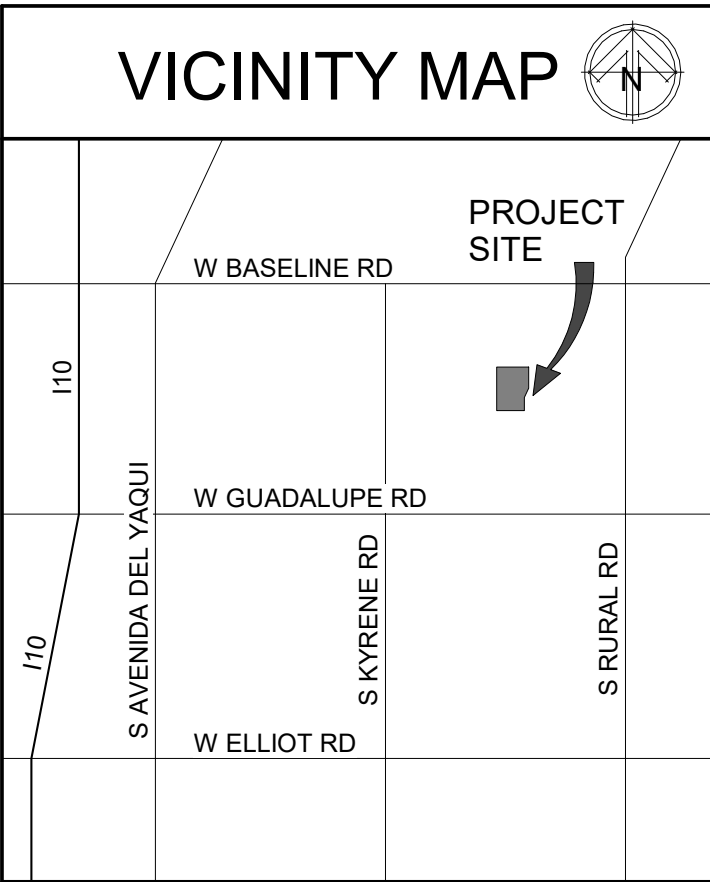
Wood Elementary
School
Tempe Elementary
School District
727 W. Cornell Dr.
Tempe, AZ 85283

Cover Sheet

● ● ● ● ● ● ● ●

Owner Approval:

1. _____
2. _____
3. _____



PROJECT TEAM

OWNER
Tempe Elementary School District
3205 S. Rural Rd.
Tempe, Arizona 85282
P: (480) 730-7100
Contact: Robyn Reichert

ARCHITECT
Avid Architects
20165 N. 67th Avenue #122A
Glendale, Arizona 85308
P: (602) 682-7665
Contact: Tamara Caraway

CIVIL ENGINEERING
Hess-Rountree, Inc.
9831 S. 51st St.
Suite C110
Phoenix, Arizona 85044
P: (480) 498-0244
Contact: Doug Osborn

Revisions:
1. Owner Revisions 9/4/19
2. Owner Comments 9/9/19
3. City Comments 10/7/19
4. Clarifications 10/29/19
5. City Comments 11/1/19
6. Clarifications 11/12/19
7. City Comments 11/14/19
8. Revisions 12/6/19

Drawn by: JS, SS, AP, BE
Checked by: JS
Date: 12/6/19
Issue: Clarifications

LANDSCAPE ARCHITECT
Campbell Collaborative Inc.
111 E. Dunlap Ave.
Suite 1-278
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P: (602) 266-1644
Contact: Don Campbell

STRUCTURAL ENGINEER
Broderick Engineering, LLC
6859 E. Rembrandt Ave.
Suite 124
Phoenix, Arizona 85212
P: (480) 926-6333
Contact: Greg Broderick

MECHANICAL, PLUMBING & ELECTRICAL ENGINEERING
Arizona Pinnacle Engineering, LLC
2222 W. Pinnacle Peak Rd.
Suite 290
Phoenix, Arizona 85027
P: (623) 594-9049
Contact: Eudjen Savu

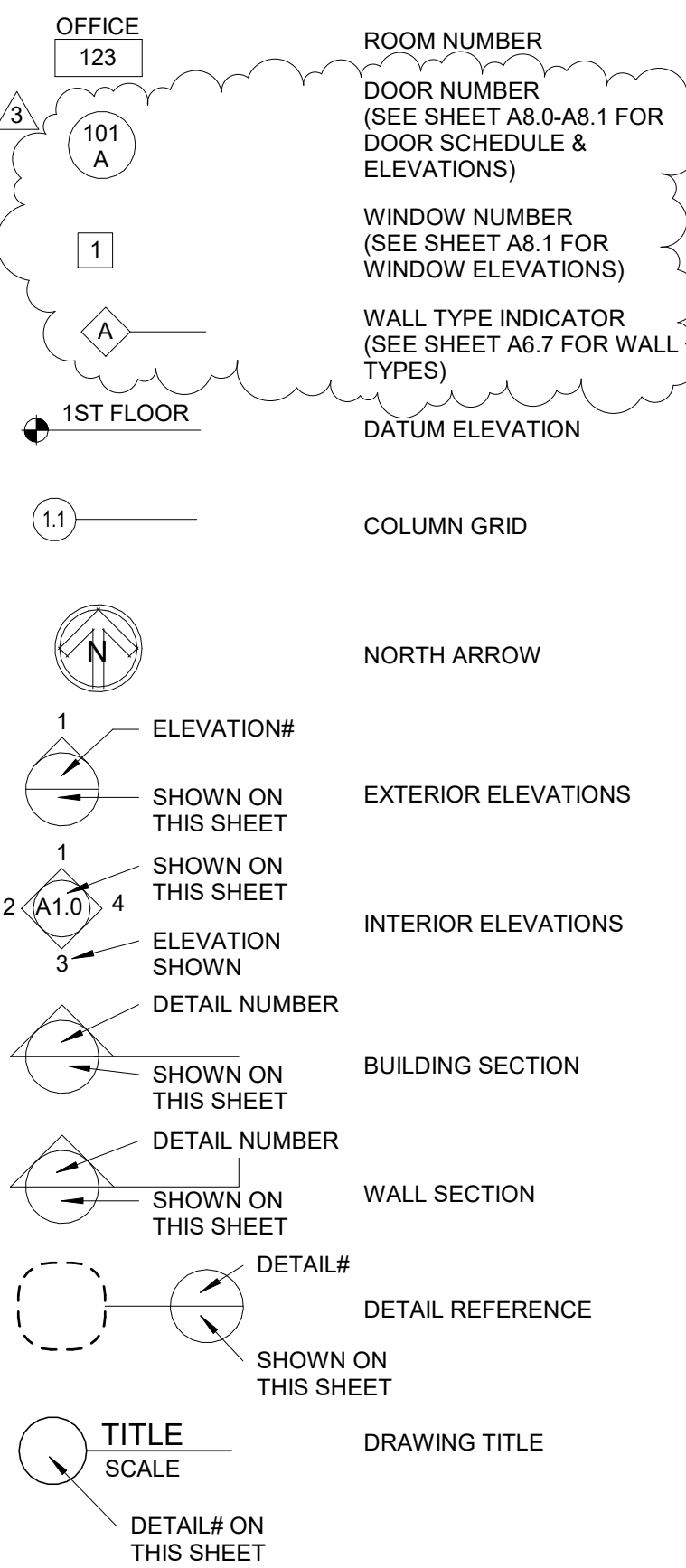
FOOD SERVICE DESIGNER
Design-Tec Food Facilities, Inc.
8346 N. 5th St.
Phoenix, Arizona 85020
P: (602) 273-0222
Contact: Anna Granillo

JOB #
19-002

SHEET
A0.0

12/17/2019 11:50:25 AM

REFERENCE SYMBOLS



BUILDING DATA

USE:	EDUCATIONAL
OCCUPANCY:	B, E, A-2, A-3, S-2
SEPARATION REQUIRED:	ZERO; NON-SEPARATED USES, FULLY SPRINKLED PER 508.3.2
CONSTRUCTION TYPE:	V-B AND II-B
MAX BUILDING HEIGHT:	2 STORY, 60'-0" H
PROPOSED BLDG HEIGHT:	1 STORY, 30'-0" H
ALLOWABLE BLDG AREA:	(REFERENCE A0.1 AND A0.2 FOR CODE SUMMARY)
GROUP B (V-B) (S1)	36,000
TOTAL ALLOWABLE BLDG AREA	= 36,000
BLDG A & B	33,841 < 36,000 = OK
(SEE A0.1 FOR PEDESTRIAN WALKWAY)	
GROUP A (II-B) (S1)	36,000
TOTAL ALLOWABLE BLDG AREA	= 36,000
BLDG C (II-B)	19,199 < 36,000 = OK
(20,749 W/ OVERHANG)	
GROUP B (V-B) (S1)	36,000
TOTAL ALLOWABLE BLDG AREA	= 36,000
BLDG C (V-B)	17,262 < 36,000 = OK
(17,520 W/ OVERHANG)	
TOTAL BLDG AREA:	70,292 BASE
	79,695 BASE (INCLUDING OVERHANG)
OCCUPANT LOAD:	(REFERENCE LIFE SAFETY SHEETS A0.1 AND A0.2 FOR CODE DETERMINED OCCUPANT LOAD)
ADA COMPLIANCE:	THIS BUILDING COMPLIES WITH THE AMERICANS WITH DISABILITY ACT AND IS DESIGNED TO BE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES.
APPLICABLE CODES:	2018 INTERNATIONAL BUILDING CODE, AS AMENDED 2018 INTERNATIONAL MECHANICAL CODE, AS AMENDED 2018 INTERNATIONAL PLUMBING CODE, AS AMENDED 2017 NATIONAL ELECTRICAL CODE, AS AMENDED 2018 INTERNATIONAL FUEL GAS CODE, AS AMENDED 2018 INTERNATIONAL ENERGY CONSERVATION CODE, AS AMENDED 2018 INTERNATIONAL FIRE CODE, AS AMENDED 2010 A.D.A. ACCESSIBILITY GUIDELINES ASHRAE 62-1, 2016, AS AMENDED

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH GENERALLY ACCEPTED INDUSTRY STANDARDS, AND AS DEEMED ACCEPTABLE BY THE OWNER OR HIS REPRESENTATIVE.
2. THIS PROJECT COMPLIES WITH ALL HANDICAP REQUIREMENTS AS SET FORTH BY GOVERNING CODES AND ORDINANCES.
3. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF EXISTING WALLS TO REMAIN AND TO THE CENTER LINE OF NEW PARTITIONS. DO NOT SCALE DRAWINGS.
4. CONTRACTOR DURING CORRECTIVE WORK TO PATCH AND FINISH WALL SURFACES TO A UNIFORM APPEARANCE AS REQUIRED. WHERE NEW CORRECTIVE WORK WALL SURFACES ARE FLUSH WITH EXISTING, BLEND FINISH SURFACES TOGETHER TO ACHIEVE A UNIFORM APPEARANCE.
5. VERIFY EXISTING FIELD CONDITIONS. IN THE EVENT ANY CONDITIONS ARE DISCOVERED WHICH IN THE CONTRACTOR'S OPINION, WOULD IMPEDE HIS WORK OR PREVENT A SUCCESSFUL AND TIMELY COMPLETION OF HIS WORK, OR IF ANY CONDITIONS ARE IN CONFLICT WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS, THEN SUCH CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT.
6. VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS PRIOR TO COMMENCING THE AFFECTED PORTION(S) OF THE WORK.
7. THE START OF WORK BY ANY CONTRACTOR OR SUBCONTRACTOR CONSTITUTES ACCEPTANCE OF EXISTING JOB CONDITIONS AS BEING SATISFACTORY FOR THE PERFORMANCE OF HIS WORK.
8. ALL ELECTRICAL CONDUITS, WIRING, PLUMBING LINES, ETC. SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED.
9. ANY NEW PARTITIONS SHALL BE ABLE TO RESIST A LATERAL LOAD OF 5 P.S.F. REFER TO DETAILS FOR ANCHORING AND BRACING DETAILS IF APPLICABLE ON THE PROJECT.
10. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED. AT PENETRATIONS OF FIREWALLS AND FLOOR, SEAL VOIDS SURROUNDING DUCTS, PIPES, AND CONDUIT.
11. INTERIOR FINISHES SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 200. ALL INSULATION MATERIALS INSTALLED WITHIN WALLS, PLenums, ETC. SHALL BE UNFACED AND SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25, WITH A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH I.B.C. STANDARDS.
12. PROVIDE BLOCKING BEHIND WALL MOUNTED DOOR STOPS AND AS REQUIRED FOR MILLWORK. ALL MILLWORK SHALL COMPLY WITH A.W.I. "PREMIUM GRADE" STANDARDS UNLESS NOTED OTHERWISE.
13. ALL WORK (WORKMANSHIP AND MATERIALS) SHALL BE GUARANTEED (IN WRITING) FOR PERIOD OF TWO YEARS AFTER DATE OF SUBSTANTIAL COMPLETION.

FIRE MARSHAL

CONTRACTOR SHALL SUBMIT THE REQUIRED DOCUMENTS, SPECIFICATIONS, AND CUTSHEETS TO THE STATE FIRE MARSHAL FOR REVIEW OF FIRE, SPRINKLER, FIRE LANE, FIRE LINE, FIRE CONNECTION, FIRE ALARM AND ASSOCIATED SUBMITTALS FOR APPROVAL. ENGINEERING AND DESIGN OF FIRE PROTECTION SYSTEMS SHALL BE COMPLETED BY THE CONTRACTOR WITH THE PROPER SEAL AND SIGNATURE OF A LICENSED ENGINEER. GENERAL SITE AND BUILDING CONFORMANCE SHALL BE SUBMITTED BY THE ARCHITECT FOR REVIEW AND APPROVAL BY THE FIRE MARSHAL.

FIRE SPRINKLER APPROVALS ARE NOT INCLUDED UNDER THIS PERMIT. BEFORE COMMENCING ANY WORK ON THE SPRINKLER SYSTEM, PLANS MUST BE SUBMITTED AND APPROVED BY THE BUILDING SAFETY DIVISION. THE SYSTEM MUST BE INSPECTED AND APPROVED BY BUILDING SAFETY INSPECTION PRIOR TO A CERTIFICATE OF OCCUPANCY.

DRAWING INDEX

ARCHITECT DRAWINGS

- A0.0 COVER SHEET
- A0.1 LIFE SAFETY PLANS A & B
- A0.2 LIFE SAFETY C
- A0.3 DEMOLITION SITE PLAN

CIVIL DRAWINGS

- C-1 COVER SHEET
- C-2 LEGEND AND DETAILS
- C-3 NOTES
- C-4 CROSS-SECTIONS
- C-5 PARTIAL TOPO AND DEMO
- C-6 PARTIAL TOPO AND DEMO
- C-7 PARTIAL TOPO AND DEMO
- C-8 PARTIAL TOPO AND DEMO
- C-9 PARTIAL TOPO AND DEMO
- C-10 PARTIAL TOPO AND DEMO
- C-11 GRADING AND DRAINAGE
- C-12 GRADING AND DRAINAGE
- C-13 GRADING AND DRAINAGE
- C-14 GRADING AND DRAINAGE
- C-15 GRADING AND DRAINAGE
- C-16 GRADING AND DRAINAGE
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- C-18 GRADING AND DRAINAGE
- C-19 GRADING AND DRAINAGE
- C-20 TEMPORARY RETENTION BASIN
- C-21 MASTER STORM DRAIN AND SEWER
- C-22 STORM DRAIN AND FLOOD IRRIG
- C-23 STORM DRAIN AND FLOOD IRRIG
- C-24 STORM DRAIN PLAN
- C-25 STORM DRAIN PLAN
- C-26 STORM DRAIN PLAN
- C-27 PLAY COURT DETAIL SHEET
- C-28 SANITARY SEWER LINE PLAN
- C-29 SANITARY SEWER LINE PLAN
- C-30 SANITARY SEWER LINE PLAN

STEEL JOISTS
WOOD "T" JOIST
WOOD CHORD/STEEL WEB JOIST
TYPE I - KITCHEN HOOD & SUPPRESSION SYSTEM
PACKAGED FREEZER/COOLER COIL UNITS
FIRE ALARM SYSTEM
FIRE SPRINKLER SYSTEM

ARCHITECT DRAWINGS

- A1.0 OVERALL SITE PLAN
- A1.1 ENLARGED SITE PLAN A
- A1.2 ENLARGED SITE PLAN B
- A1.3 ENLARGED SITE PLAN C
- A1.4 ENLARGED SITE PLAN D
- A1.5 ENLARGED SITE PLAN E
- A1.6 ENLARGED SITE PLAN F
- A1.7 SITE FENCE & GATE PLAN
- A1.8 SITE DETAILS
- A1.9 SITE DETAILS
- A1.10 SITE DETAILS
- A1.11 SITE DETAILS
- A1.12 SITE DETAILS
- A1.13 FENCE AND GATE DETAILS
- A2.0 FLOOR PLAN - OVERALL
- A2.1 FLOOR PLAN A - ANNOTATIVE
- A2.2 FLOOR PLAN A - DIMENSION
- A2.3 FLOOR PLAN B - ANNOTATIVE
- A2.4 FLOOR PLAN B - DIMENSION
- A2.5 FLOOR PLAN C - ANNOTATIVE
- A2.6 FLOOR PLAN C - DIMENSION
- A2.7 FLOOR PLAN C - ANNOTATIVE
- A2.8 FLOOR PLAN C - DIMENSION
- A3.0 OVERALL RCP
- A3.1 REFLECTED CEILING PLAN A
- A3.2 REFLECTED CEILING PLAN B
- A3.3 REFLECTED CEILING PLAN C
- A3.4 REFLECTED CEILING PLAN C
- A3.5 RCP DETAILS
- A3.6 RCP DETAILS
- A4.0 OVERALL ROOF PLAN
- A4.1 ENLARGED ROOF
- A4.2 ENLARGED ROOF
- A4.3 ROOF DETAILS
- A4.4 ROOF DETAILS
- A5.0 EXTERIOR ELEVATIONS A
- A5.1 EXTERIOR ELEVATIONS B
- A5.2 EXTERIOR ELEVATIONS C
- A5.3 EXTERIOR ELEVATIONS C
- A5.4 TILT PANEL ELEVATIONS
- A5.5 TILT PANEL ELEVATIONS
- A5.6 TILT PANEL ELEVATIONS
- A5.7 TILT PANEL ELEVATIONS
- A6.0 BUILDING A - SECTIONS
- A6.1 BUILDING A - WALL SECTIONS
- A6.2 BUILDING B - SECTIONS
- A6.3 BUILDING B - WALL SECTIONS
- A6.4 BUILDING C - SECTIONS
- A6.5 BUILDING C - WALL SECTIONS
- A6.6 BUILDING C - WALL SECTIONS
- A6.7 WALL TYPES & DETAILS
- A7.0 ENLARGED RESTROOMS
- A7.1 INTERIOR ELEVATIONS - RESTROOMS
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- A7.4 INTERIOR ELEVATIONS
- A7.5 INTERIOR ELEVATIONS
- A7.6 INTERIOR ELEVATIONS
- A7.7 INTERIOR ELEVATIONS
- A7.8 INTERIOR ELEVATIONS
- A8.1 DOOR AND WINDOW ELEVATIONS
- A8.2 DOOR DETAILS
- A8.3 DOOR DETAILS
- A8.4 WINDOW DETAILS
- A8.5 ROOM FINISH SCHEDULE
- A8.6 FINISH PLAN A
- A8.7 FINISH PLAN B
- A8.8 FINISH PLAN C
- A8.9 FINISH PLAN C
- A8.10 DETAILS
- A8.11 DOOR & GATE HARDWARE
- A8.12 DOOR & GATE HARDWARE
- A9.0 ADA DETAILS

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- S1.0 STRUCTURAL NOTES
- S1.1 STRUCTURAL NOTES
- S1.2 TYPICAL DETAILS
- S1.3 TYPICAL DETAILS
- S1.4 TYPICAL DETAILS
- S2.0 FOUNDATION PLAN - BUILDING A
- S2.1 FOUNDATION PLAN - BUILDING B1
- S2.2 FOUNDATION PLAN - BUILDING B2
- S2.3 FOUNDATION PLAN - BUILDING C1
- S2.4 FOUNDATION PLAN - BUILDING C2
- S2.5 FOUNDATION PLAN - BUILDING C3
- S3.0 ROOF FRAMING PLAN - BUILDING A
- S3.1 ROOF FRAMING PLAN - BUILDING B1
- S3.2 ROOF FRAMING PLAN - BUILDING B2
- S3.3 ROOF FRAMING PLAN - BUILDING C1
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- S3.5 ROOF FRAMING PLAN - BUILDING C3
- S4.0 FOUNDATION DETAILS
- S5.0 FRAMING DETAILS
- S5.1 FRAMING DETAILS
- S5.2 FRAMING DETAILS
- S5.3 FRAMING DETAILS
- S6.0 PANEL PLAN AND ELEVATIONS - A
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- S6.3 PANEL PLAN AND ELEVATIONS - C1
- S6.4 PANEL PLAN AND ELEVATIONS - C2
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- S6.6 CONCRETE TILT PANEL DETAILS

MECHANICAL DRAWINGS

- M2.1 FLOOR PLAN A - MECHANICAL
- M2.2 FLOOR PLAN B - MECHANICAL
- M2.3 FLOOR PLAN C - MECHANICAL
- M2.4 FLOOR PLAN C - MECHANICAL
- M3.1 FLOOR PLAN A - MECH PIPING
- M3.2 FLOOR PLAN B - MECH PIPING
- M3.3 FLOOR PLAN C - MECH PIPING
- M3.4 FLOOR PLAN C - MECH PIPING
- M4.0 MECHANICAL SCHEDULES
- M4.1 MECHANICAL SCHEDULES
- M4.2 MECHANICAL SCHEDULES
- M4.3 MECHANICAL SCHEDULES
- M5.0 MECHANICAL DETAILS
- M5.1 MECHANICAL DETAILS

ELECTRICAL DRAWINGS

- E1.0 SITE LIGHTING AND POWER
- E1.1 SITE LIGHTING AND POWER
- E1.2 SITE PHOTOMETRIC SOUTH
- E1.3 SITE PHOTOMETRIC NORTH
- E0.0 GENERAL NOTES, SYMBOLS, ABB
- E2.1 LIGHTING PLAN A
- E2.2 LIGHTING PLAN B
- E2.3 LIGHTING PLAN C1
- E2.4 LIGHTING PLAN C2 & C3
- E3.1 PWR & SPEC. SYS. PLAN A
- E3.2 PWR & SPEC. SYS. PLANS B1 & B2
- E3.3 PWR & SPEC. SYS. PLAN C1
- E3.4 PWR & SPEC. SYS. PLANS C2 & C3
- E3.5 POWER PLAN KITCHEN
- E3.6 ENLARGED POWER PLANS
- E4.1 HVAC PWR PLAN A
- E4.2 HVAC PWR PLANS B1 & B2
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- E5.1 HVAC PWR ROOF PLAN A
- E5.2 HVAC PWR PLANS B1 & B2
- E5.3 HVAC PWR ROOF PLAN C1
- E5.4 HVAC PWR ROOF PLANS C2 & C3
- E6.0 ONE-LINE DIAGRAM
- E6.1 ELECTRICAL SCHEDULES
- E7.1 PANELBOARD SCHEDULES
- E7.2 PANELBOARD SCHEDULES
- E7.3 PANELBOARD SCHEDULES
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- E8.1 ENERGY CALCS / IECC

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- P2.1 FLOOR PLAN A - PLUMBING
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- P2.4 FLOOR PLAN C - PLUMBING
- P2.5 KITCHEN PLAN C - PLUMBING
- P2.6 ROOF PLAN A - PLUMBING
- P2.7 ROOF PLAN B - PLUMBING
- P2.8 ROOF PLAN C - PLUMBING
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- P3.1 PLUMBING DIAGRAMS
- P3.2 PLUMBING DIAGRAMS
- P3.3 PLUMBING DIAGRAMS
- P3.4 PLUMBING DIAGRAMS
- P4.1 PLUMBING SCHEDULES AND CALCS
- P4.2 PLUMBING SPECIFICATIONS
- P5.1 PLUMBING DETAILS

FOOD SERVICE DRAWINGS

- FS-1 FOOD SERVICE EQUIPMENT PLAN
- FS-2 FOOD SERVICE EQUIPMENT SCHED.
- FS-3 FOOD SERVICE EQUIP. PLUMBING
- FS-4 FOOD SERVICE EQUIP. ELECTRICAL
- FS-5 F.S. EQUIP. EXHAUST AND DEPRESS
- FS-6 FOOD SERVICE EQUIPMENT DETAILS
- FS-7 FOOD SERVICE HOOD DETAILS
- FS-8 FOOD SERVICE WALK-IN DETAILS

ABBREVIATIONS

& AND	EQ EQUAL	LAV LAVATORY	RM ROOM
@ AT	EQUIP EQUIPMENT	LOUV LOUVER	RO ROUGH OPENING
CL CENTERLINE	ESP ELECTROSTATIC PAINT	LT LIGHT	ROW RIGHT OF WAY
# NUMBER	EW ELECTRIC WATER COOLER	LT WT LIGHT WEIGHT	RS RELIEF SCUPPER
AB ANCHOR BOLT	EW EACH WAY		SB SUPPORT BARS
ABC AGGREGATE BASE COURSE	EXIST EXISTING	MACH MACHINE	SC SOLID CORE
AC AIR CONDITIONING	EXT EXPOSED	MAINT MAINTENANCE	SCHED SCHEDULE
ACOUS ACOUSTICAL	EXT EXTERIOR	MAS MASONRY	SECT SECTION
ADJ ADJUSTABLE		MATL MATERIAL	SF SQUARE FEET
A.F.F. ABOVE FINISH FLOOR	FDN FLOOR DRAIN	MAX MAXIMUM	SHT SHEET
ALUM ALUMINUM	FDN FOUNDATION	MCJ MASONRY CONTROL JOINT	SHR SIMILAR
APC ACoustical PANEL CEILING	FE FIRE EXTINGUISHER	MECH MECHANICAL	SJ SCORED JOINT
APPRO APPROXIMATE	FEC FIRE EXTINGUISHER CABINET	MFR MANUFACTURER	SPEC SPECIFICATION
ARCH ARCHITECT(URAL)	FF FINISH FLOOR	MIN MINIMUM	SPKLR SPRINKLER
AUTO AUTOMATIC	FF EL FINISH(ED) FLOOR ELEV.	MISC MISCELLANEOUS	SPLASH
	FG FINISH GRADE	MO MASONRY OPENING	SQ SQUARE
BD BOARD	FHC FIRE HOSE CABINET	MR MOISTURE RESISTANT	SS STAINLESS STEEL
BFA BARRIER FREE ACCESSIBLE	FLR FLOOR	MT METAL THRESHOLD	STD STANDARD
BF BARRIER FREE	FLN FINISH	MTD MOUNTED	STL STEEL
BLDG BUILDING	FLR FLOOR	MTL METAL	STR STRUCTURAL
BLK BLOCK	FLU FLUORESCENT		STRC STRUCTURAL
BLKG BLOCKING	FM FACTORY MUTUAL	N/A NOT APPLICABLE	STOR STORAGE
BM BEAM	FR FRAME	NF NEAR FACE	SUSP SUSPENDED
BOT BOTTOM	FT FOOT OR FEET	NC NON COMBUSTIBLE	STANDPIPE
	FTG FOOTING	NIC NOT IN CONTACT	SV SHEET VINYL
CAB CABINET	F.O FINISHED OPENING	NO NUMBER	SYMM SYMMETRICAL
CER CERAMIC	F.O.B FACE OF BRICK	NOM NOMINAL	
CEM CEMENT	F.O.C FACE OF CONCRETE	NTS NOT TO SCALE	TEL TELEPHONE
CF(C) CONTR. FURN./CONT. INST.	F.O.C.M FACE OF CMU		TEXT TEXTURE COATING
CF(O) CONTR. FURN/OWNER INST.	F.O.S FACE OF MASONRY	OD OUTSIDE DIAMETER	THK THICK
CJ CONSTRUCTION JOINT	F.O.S FACE OF STUDS	OC ON CENTER	THR THRESHOLD
CL CENTERLINE	F.R FIRE RESISTANT	O.F.C.I. OWNER FURNISHED/	TOD TOP OF CURB
CLG CEILING	F.V. FIELD VERIFY	CONTRACTOR INSTALLED	TOD TOP OF DECK
CLR CLEAR		OWNER FURNISHED/	TOD TOP OF FRAMING
CMU CONCRETE MASONRY UNIT	GA GAUGE	OWNER INSTALLED	TOD TOP OF PARAPET
COL COLUMN	GALV GALVANIZED		TOS TOP OF STEEL
CO CLEAN OUT	GI GYPSSUM IRON	OPNG OPENING	TOW TOP OF WALL
CONC CONCRETE	GL GLASS	OPP OPPOSITE	TP TOILET PAPER
CONST CONSTRUCTION	GLGZ GLAZING		TR TREAD
CONT CONTINUOUS	GR GUEST ROOM	PC PORTLAND CEMENT	TV TELEVISION
CPT CARPET	GYP GYPSSUM WALL BOARD	PF PREFINISHED	TYP TYPICAL
CT CERAMIC TILE	GYP GYPSSUM	PLG PLUMBING	UF UPHOLSTERY FABRIC
CTR CENTER		PLAS PLASTER	UL UNDERWRITER'S LABORATORY
	HB HOSE BIB	PLB PLASTER	UNO UNLESS NOTED OTHERWISE
DBL DOUBLE	HC HOLLOW CORE	PLT PLATE	
DET DETAIL	HCMU HOLLOW CLAY MASONRY UNIT	PLYWD PLYWOOD	
DF DRINKING FOUNTAIN	HD HAND	PREH PREHUNG	VCT VINYL COMPOSITION TILE
DIA DIAGONAL	H.D. HUB DRAIN	PT PRELUM	VERT VERTICAL
DIA DIA	HDWR HARDWARE	PTN PARTITION	VEST VESTIBULE
DM DIMENSION	HDWD HARDWOOD	PTD PAINT	VWC VINYL WALL COVERING
DR DINING ROOM	HM HOLLOW METAL	PRCST PRECAST	V.I.F. VERIFY IN FIELD
DISP DISPENSER	HORIZ HORIZONTAL	PVC POLYVINYL CHLORIDE	
DN DOWN	HR HOUR		
DRAP DRAPERY	HT HEIGHT	QT QUARRY TILE	
DR DOOR		QTY QUANTITY	
DRESS DRESSING	ID INSIDE DIAMETER		
DRK DARK	INSIDE FACE	R RISER	
DWG DRAWING	INSUL INSULATION	RD RADIUS	
	INT INTERIOR	RB RUBBER BASE	
EA EACH	JAN JANITOR	REC RECESSED	
EB EXPANSION BOLT	JT JOINT	REF REFERENCE	
EF EACH FACE		REFL REFLECTED	
EIFS EXTERIOR INSULATION	KD KNOCK DOWN	REIN REINFORCE(E)D	
FINISH FINISH SYSTEM	KO KNOCKOUT	REQD REQUIRED	
EJ EXPANSION JOINT		RESIL RESILIENT	
ELEV ELEVATION		RESIST RESISTANT	
ELEC ELECTRICAL	LAM LAMINATE	RFMR TRANSFORMER	
EL ELEVATOR	LAV LAVATORY		
	LNDRY LAUNDRY		

DEFERRED SUBMITTALS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND PROVIDE BACK TO CONTRACTOR. CONTRACTOR IS TO THEN FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

DEFERRED SUBMITTAL ITEMS:

STEEL JOISTS
WOOD "T" JOIST
WOOD CHORD/STEEL WEB JOIST
TYPE I - KITCHEN HOOD & SUPPRESSION SYSTEM
PACKAGED FREEZER/COOLER COIL UNITS
FIRE ALARM SYSTEM
FIRE SPRINKLER SYSTEM

SPECIAL INSPECTION

SPECIAL INSPECTION BY SPECIAL INSPECTORS SATISFACTORY TO THE BUILDING OFFICIAL IS REQUIRED FOR THE FOLLOWING TYPES OF WORK IN CONFORMANCE WITH SECTION 109 AND CHAPTER 17 OF THE BUILDING CODE:

SPECIAL INSPECTION ITEMS:
CONCRETE
BOLTS INSTALLED IN CONCRETE
REINFORCING STEEL
WELDING
HIGH STRENGTH BOLTING
SPECIAL GRADING, EXCAVATION & FILLING

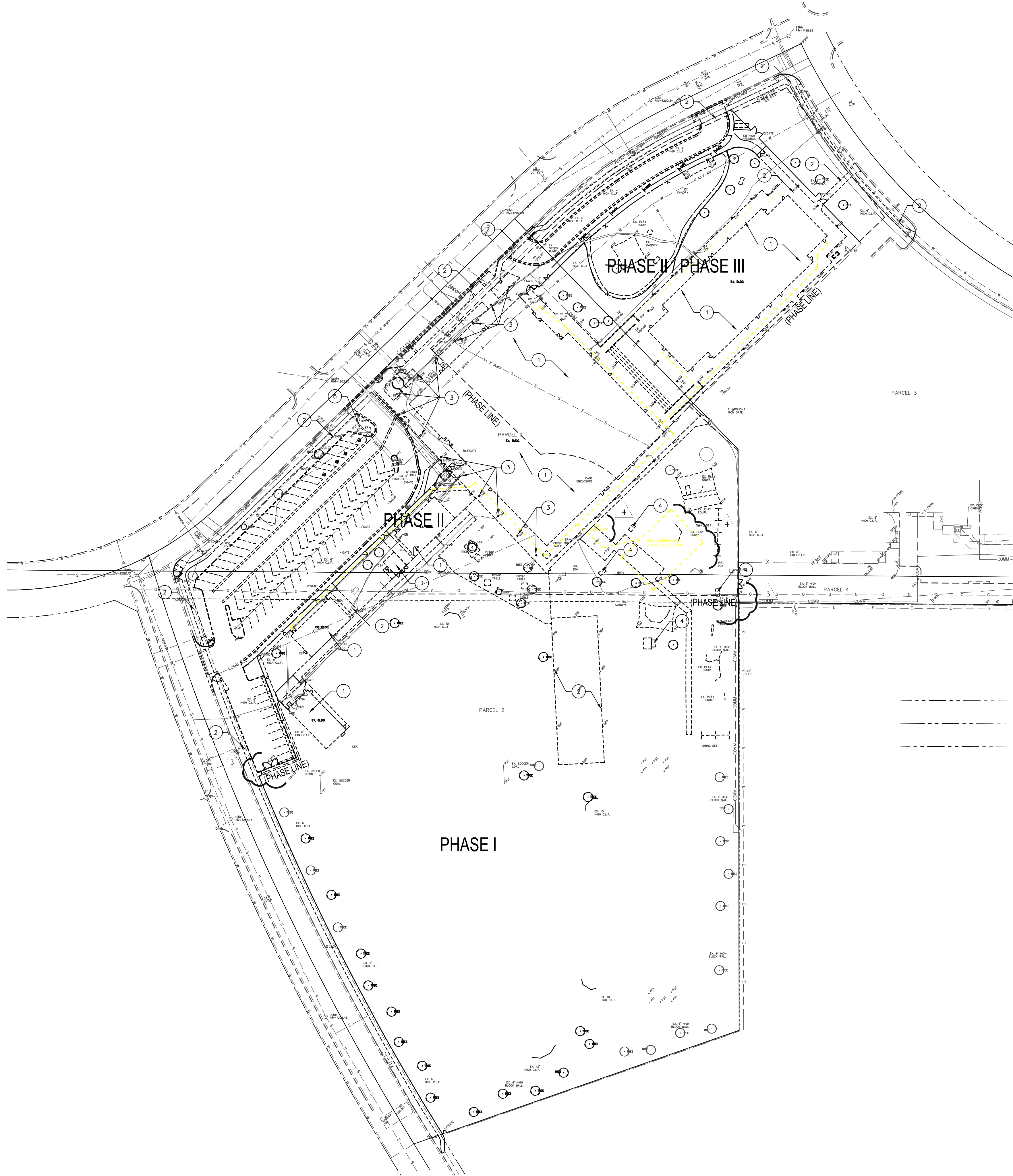
PROJECT SCOPE OF WORK

EXTENT OF WORK INCLUDES NEW ELEMENTARY SCHOOL FOR 600 STUDENTS TO BE CONSTRUCTED IN PHASES TO ALLOW EXISTING CAMPUS TO BE OCCUPIED DURING CONSTRUCTION. BUILDING DESIGNS TO BE TILT CONCRETE WITH METAL STUD FRAMING. SITE WORK TO INCLUDE PARKING, DROP-OFF DRIVES, HARDCAPE, LANDSCAPE, PLAYGROUNDS, SITE LIGHTING, AND STREET LIGHTING.

LANDSCAPE DRAWINGS

- L1.0 OVERALL - LANDSCAPE PLAN
- L1.1 LANDSCAPE PLAN
- L1.2 LANDSCAPE PLAN
- L1.3 LANDSCAPE PLAN
- L2.0 OVERALL - IRRIGATION PLAN
- L2.1 IRRIGATION PLAN
- L2.2 IRRIGATION PLAN
- L2.3 IRRIGATION PLAN
- L3.0 LANDSCAPE DETAILS
- L3.1 LANDSCAPE DETAILS

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GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS BEFORE INSTALLATION AND/OR FABRICATION.
2. CONTRACTOR TO SUBMIT FIRE ALARM SYSTEM TO FIRE MARSHAL FOR APPROVAL.
3. CONTRACTOR SHALL PROVIDE ADA SLOPE FOR SIDEWALK CONNECTING ENTRY POINTS TO EXISTING SIDEWALK. CONTRACTOR IS TO PROVIDE WRITTEN NOTIFICATION IF GRADES ARE NOT ACCEPTABLE. CONTRACTOR TO REFERENCE CIVIL DRAWINGS FOR GRADING AND DRAINAGE.
4. SEE SHEET A1.5-A1.7 FOR SITE DETAILS. PLACE CONSTRUCTION SIGN AT FRONT ENTRY TO THE PROJECT FOR VIEWING.
5. CONTRACTOR TO PLACE PROJECT SIGN AT ENTRY INTO CAMPUS OR AS INDICATED BY OWNER.
6. CONTRACTOR TO REPLACE AND REPAIR EXISTING LANDSCAPE AND IRRIGATION SYSTEMS DEMOLISHED BY WORK. RELOCATE EXISTING VALVE BOXES, MAIN LINES, AND ASSOCIATED IRRIGATION SYSTEMS OUTSIDE WORK AREA. RECONNECT EXISTING SYSTEMS TO CREATE FUNCTIONING SYSTEMS THAT WILL BE INCLUDED WITHIN THE BUILDING WARRANTY PERIOD. CONTRACTOR TO COORDINATE WITH OWNER AND LANDSCAPE CONTRACTOR FOR ALL WORK ASSOCIATED WITH LANDSCAPE AND IRRIGATION.
6. NEW DECOMPOSED GRANITE SHALL BE PLACED IN ALL AREAS OF WORK WITHIN EXISTING DECOMPOSED GRANITE BOUNDARIES. NEW TURF SHALL BE PLACED IN ALL AREAS OF WORK WITHIN EXISTING TURF.
7. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTION OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL DISTANCE, A 5-PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION.
8. CONTRACTOR TO REFERENCE CIVIL DRAWINGS FOR ADDITIONAL CONCRETE SIDEWALKS AND WORK NOT INDICATED ON THIS SHEET.
9. CONCRETE TO SET ELECTRICAL POWER PROVIDED FOR VENDORS IN PAINTED STEEL PEDESTAL 1'x4'x4" W/ EXTERIOR GRADE OUTLET AS INDICATED BY ELECTRICAL.
10. TEMPE ELEMENTARY SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR ANY ASBESTOS ABATEMENT. OWNER TO VERIFY THAT THE BUILDING HAS BEEN INSPECTED BY AN AHERA-CERTIFIED ASBESTOS BUILDING INSPECTOR DURING THE PAST YEAR. GENERAL CONTRACTOR TO REQUEST A COPY OF THE ASBESTOS REPORT STATING IF ASBESTOS IS PRESENT AND MAKE AVAILABLE TO CONSTRUCTION PERSONNEL AND THE ARCHITECT. IF THE BUILDINGS HAVE NOT BEEN INSPECTED, OWNER SHALL HAVE THE BUILDING INSPECTED BY AN AHERA-CERTIFIED ASBESTOS INSPECTOR AND VERIFY HIS OR HER CERTIFICATION. CONTRACTOR SHALL OBTAIN A COPY OF THE INSPECTION REPORT AND DETERMINE IF ASBESTOS IS PRESENT. CONTRACTOR SHALL POST THE ASBESTOS INSPECTION REPORT ON SITE IN A VISIBLE LOCATION THROUGHOUT THE ENTIRE RENOVATION PROJECT.
11. DEMOLITION TO BE COMPLETED WHEN BUILDINGS ARE UNOCCUPIED DURING SUMMER BREAK TIME PERIOD AS INDICATED BY OWNER. NEW BUILDINGS ARE TO BE BUILT WITHIN BALL FIELD AREAS AND SHALL NOT LIMIT EXISTING MEANS OF EGRESS. EXISTING BUILDINGS ARE TO REMAIN OCCUPIED UNTIL SUMMER BREAK AS INDICATED BY OWNER.
 - A. PHASE I: CONSTRUCTION OF NEW BUILDINGS WITHIN BALL FIELD AREAS WITH ALL ASSOCIATED SYSTEMS. DEMOLITION OF ONE UNUSED PORTABLE BUILDING AS INDICATED BY OWNER.
 - B. PHASE II: DEMOLITION OF ALL REMAINING EXISTING BUILDINGS. CONSTRUCTION HARDSCAPE AND LANDSCAPE AREAS AS INDICATED ON DRAWINGS.
 - C. PHASE III: CONSTRUCTION OF LANDSCAPE BALL FIELDS TO BE PLANTED AT OPTIMUM TIME FOR TURF GROWTH AS INDICATED BY LANDSCAPE ARCHITECT.

DEMOLITION KEYNOTES:

- 1 DEMOLISH AND DISPOSE OF EXISTING BUILDING AT SPECIFIED LOCATION. CONTRACTOR TO MAINTAIN EXISTING MEANS OF EGRESS FOR OCCUPIED PORTIONS OF BUILDING.
- 2 DEMOLISH EXISTING HARDSCAPE PER CIVIL PLAN - SEE CIVIL FOR PHASING
- 3 REMOVE AND SALVAGE EXISTING ART WORK TILES ON COLUMNS AS DIRECTED BY OWNER
- 4 REMOVE AND SALVAGE EXISTING CONCRETE BENCHES AS DIRECTED BY OWNER
- 5 REMOVE AND SALVAGE EXISTING MARQUEE AS DIRECTED BY OWNER

LEGEND:

----- PHASE LINE

Wood Elementary School

Tempe Elementary School District

727 W. Cornell Dr.
Tempe, AZ 85283

DEMOLITION
SITE PLAN

Owner Approval:

1. _____
2. _____
3. _____

Avid
ARCHITECTS
8715 W. UNION HILLS DR
PEORIA, AZ 85382
P: 602.682.7665
F: 602.595.8399

Revisions:

△ 9/4/19 Owner Comments
△ 9/20/19 Owner Comments
△ 10/7/19 City Comments
△ 11/1/19 City Comments
△ 12/6/19 Revisions

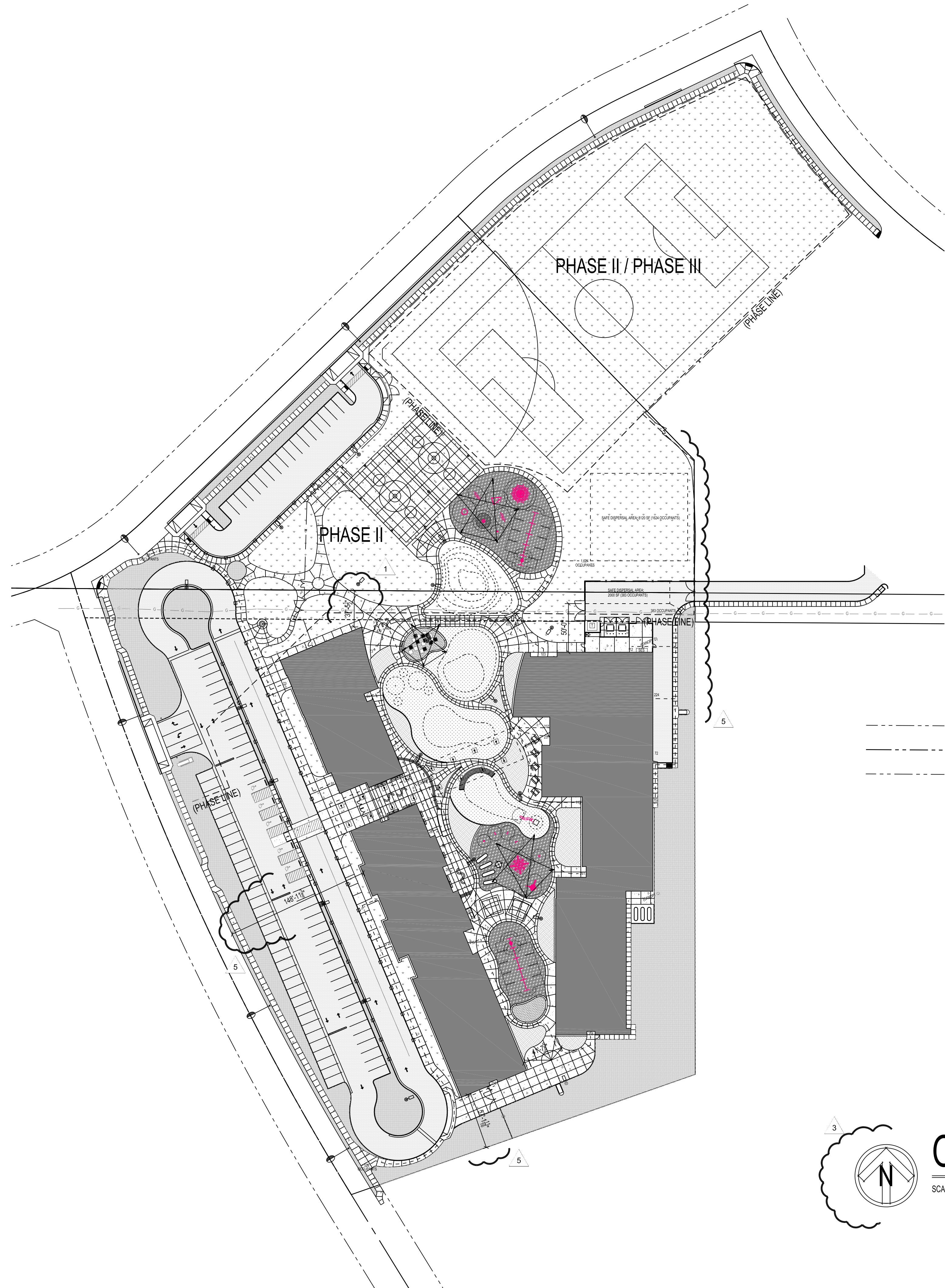
Drawn by: JS, SS, AP, BE
Checked by: JS
Scale: As Shown

Date: 12/6/19
Issue: Construction Set

REGISTERED ARCHITECT
TAMARA D. CARAWAY
12-6-2019
Expires 6/30/2020

JOB #
19-002
SHEET
A0.3

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LEGEND

- PROPOSED BUILDINGS
- ASPHALT - SEE CIVIL
- CONCRETE SIDEWALK - SEE CIVIL
- TURF - SEE LANDSCAPE
- NEW ARTIFICIAL TURF - SEE SPECS - SEE LANDSCAPE
- DECOMPOSED GRANITE - SEE LANDSCAPE
- SAND - SEE LANDSCAPE
- WOOD FIBER - SEE LANDSCAPE
- PLANTER BEDS - SEE LANDSCAPE
- KEYNOTES - SEE ENLARGED SITE PLAN SHEETS
- PARKING/SITE LIGHT POLE W/ 2' DIA. 30" HIGH RAISED CONCRETE BASE - SEE ELECTRICAL PLANS
- 71W LED COBRAHEAD LUMINAIRE ON A SINGLE ARE POLE WITH A 30'-0" MOUNTING HEIGHT - SEE SL-1 & SL-2 FOR STREET LIGHT PLAN
- KB KNOX BOX LOCATION - COORDINATE W/ FIRE MARSHAL
- FDC FIRE DEPARTMENT CONNECTION - SEE CIVIL PLANS

PARKING SUMMARY:

PARKING STALLS (PROVIDED)	96 SPACES
ACCESSIBLE PARKING (REQUIRED) PER I.B.C. 2018, TABLE 1106.1	4 SPACES
ACCESSIBLE PARKING (PROVIDED)	4 SPACES
ONE IN EVERY EIGHT ACCESSIBLE SPACES SHALL BE DESIGNATED "VAN ACCESSIBLE" PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, SECTION 208.4 (REQUIRED)	1 SPACES
"VAN ACCESSIBLE" PARKING (PROVIDED)	4 SPACES
TOTAL SPACES PROVIDED:	96 SPACES

BUILDING USE:

ELEMENTARY SCHOOL WITH PRE-K THRU 5 GRADES.

BUILDING SUMMARY:

NOTE: DOES NOT INCLUDE CANOPY AREAS OR OPEN AIR COVERED BREEZEWAYS ALL CANOPIES AND COVERED BREEZEWAYS ARE MADE OF NON-COMBUSTABLE MATERIALS

BLDG A & B: 1 STORY, TYPE V-B, S-1, AFES, 20'-0" TALL FLOOR AREA: **W/ OVERHANG 41,641 S.F.**

BLDG C: 1 STORY, TYPE II-B, S-1, AFES, 30'-0" TALL FLOOR AREA: **W/ OVERHANG 20,838 S.F.**

BLDG C: 1 STORY, TYPE V-B, S-1, TYPE V-B, AFES, 21'-0" TALL FLOOR AREA: **W/ OVERHANG 17,520 S.F.**

TOTAL CAMPUS: **79,999 S.F.**

Wood Elementary School

Tempe Elementary School District

727 W. Cornell Dr.
Tempe, AZ 85283

OVERALL SITE PLAN

Owner Approval:

1. _____
2. _____
3. _____

Avid
ARCHITECTS

8715 W. UNION HILLS DR
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Issue: Construction Set



Expires 6/30/2020

JOB #
19-002

SHEET

A1.0

DESIGN CIVIL ENGINEER'S
NOTES TO CONTRACTOR:

1. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
2. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
5. THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING, SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
6. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
7. ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
8. THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN. ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
9. ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

DISSIPATION CALCULATIONS:

RETENTION BASIN A

RETENTION BASIN A IS ONE FOOT (1') DEEP OR LESS, THEREFORE NO DRYWELL IS REQUIRED.

RETENTION BASIN B

RETENTION BASIN B IS ONE FOOT (1') DEEP OR LESS, THEREFORE NO DRYWELL IS REQUIRED

TEMPORARY BASIN C

THREE DRYWELLS = 0.30 CFS*

0.30 FT3 X 60 S X 60 MIN X 36 HRS = 38,880 CF > 31,792 CF
S 1 MIN 1 HR 1 HR

THREE DRYWELLS DISSIPATE 38,880 CF IN 36 HOURS WHICH IS MORE THAN THE TOTAL VOLUME REQUIRED TO BE DISSIPATED IN TEMPORARY RETENTION BASIN C.

*USING A DESIGN DISSIPATION RATE OF 0.10 CFS FOR EACH DRYWELL PER ENGINEERING DESIGN CRITERIA, P. 63, A COMBINED DISSIPATION RATE OF 0.30 CFS IS USED FOR THREE DRYWELLS.

UTILITY COMPANY SUBMITTALS

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOWN OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS AGREE WITH THE INFORMATION CONTAINED IN THE UTILITY COMPANY'S RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS WILL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORSEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.

CITY OF TEMPE SEWER, WTR, TRAFFIC	<u>CMMS GROUP</u> CO. REPRESENTATIVE CONTACTED	<u>08/12/19</u> DATE SUBMITTED
COX COMMUNICATIONS	<u>USIC DISPATCHER</u> CO. REPRESENTATIVE CONTACTED	<u>08/12/19</u> DATE SUBMITTED
CENTURY LINK	<u>USIC DISPATCHER</u> CO. REPRESENTATIVE CONTACTED	<u>08/12/19</u> DATE SUBMITTED
EL PASO NATURAL GAS	<u>RUSSEL WILLIAMS</u> CO. REPRESENTATIVE CONTACTED	<u>08/12/19</u> DATE SUBMITTED
SALT RIVER PROJECT	<u>SFP BLUE STAKE</u> CO. REPRESENTATIVE CONTACTED	<u>08/12/19</u> DATE SUBMITTED

RETENTION BASIN D

FOUR DRYWELLS = 0.40 CFS

0.40 FT3 X 60 S X 60 MIN X 36 HRS = 51,840 CF > 50,380 CF
S 1 MIN 1 HR 1 HR

FOUR DRYWELLS DISSIPATE 51,840 CF IN 36 HOURS WHICH IS MORE THAN THE TOTAL VOLUME REQUIRED TO BE DISSIPATED IN RETENTION BASIN D.

*USING A DESIGN DISSIPATION RATE OF 0.10 CFS FOR EACH DRYWELL PER ENGINEERING DESIGN CRITERIA, P. 63, A COMBINED DISSIPATION RATE OF 0.40 CFS IS USED FOR FOUR DRYWELLS.

RETENTION BASIN E

RETENTION BASIN E IS ONE FOOT (1') DEEP OR LESS, THEREFORE NO DRYWELL IS REQUIRED.

EXISTING RETENTION BASIN F

EXISTING RETENTION BASIN F IS ONE FOOT (1') DEEP OR LESS, THEREFORE NO DRYWELL IS REQUIRED.

ESTIMATED PUBLIC WATER LINE QUANTITIES:

ITEM	UNIT	QUANTITY
WATER MAIN	LF	1,660
2" DOMESTIC WATER SERVICE	EA	2
2" LANDSCAPE WATER SERVICE	EA	2
FIRE HYDRANT	EA	4
TRENCH INSPECTION	LF	1,911

OFFSITE ESTIMATED QUANTITIES:

ITEM	UNIT	QUANTITY
DRIVEWAY ENTRANCE	EA	3
CONCRETE CURB AND GUTTER	LF	467
SIDEWALK	LF	1,763
VALLEY GUTTER AND APRON	EA	2
PAVING	SY	110
SEWER LINES-TESTING-INSPECTION	LF	44.5
8" MACHINE-DRILLED TAP	EA	1
ENERGIZATION (UNDERGROUND)	EA	6
STREET LIGHT POLE INSPECTION	EA	6

ESTIMATED ONSITE QUANTITIES:

ITEM	UNIT	QUANTITY
UNDERGROUND FIRE SPRINKLER LINE	LF	251
DOMESTIC WATER LINE	LF	538
STORM DRAINS	LF	2,612
SEWER LINE-TESTING-INSPECTION	LF	823

DRAINAGE AREA	TURF AREA (S.F.)	DECOMPOSED GRANITE AREA (S.F.)	ASPHALT / BUILDING / CONCRETE AREA (S.F.)	TOTAL AREA (S.F.)	WEIGHTED RUNOFF COEFFICIENT (Cw)	VOLUME RETENTION REQUIRED (C.F.)	TOTAL VOLUME RETENTION REQUIRED (C.F.)	BASIN I.D.	BOTTOM AREA (S.F.)	H.W.L. AREA (S.F.)	DEPTH (FT.)	TOTAL VOLUME RETENTION PROVIDED (C.F.)	EXCESS VOLUME (C.F.)	AS-BUILT VOLUME (C.F.)
A	-	29,545	39,198	68,743	0.76	9,578	9,578	A	12,190	17,574	1.00	14,882	5,304	
B	-	2,300	5,096	7,396	0.81	1,099	1,099	B	684	1,152	0.98	900	-199	
C	*	*	*	191,478	0.90	31,593	31,792	TEMP. C	2,084	8,555	6.00	31,917	125	
D	79,477	-	81,460	160,937	0.63	18,588	50,380	D	81,173	87,038	1.00	84,106	33,726	
E	15,680	-	7,902	23,582	0.52	2,248	2,248	E	10,742	11,827	0.50	5,642	3,394	
F	12,248	-	-	12,248	0.31	696	696	EXISTING F	1,421	3,046	0.85	1,899	1,203	
OVERALL SITE	*	*	*	464,384**	0.74941***	63,802	63,802****					107,429****	43,520	

* SEE LEGEND ON SHEET C-3 *
* SEE CITY OF TEMPE NOTES ON SHEET C-2 *

IMPROVEMENT PLANS

FOR

WOOD ELEMENTARY SCHOOL

727 W. CORNELL DRIVE

TEMPE, AZ 85283

PHONE: (480) 838-0711

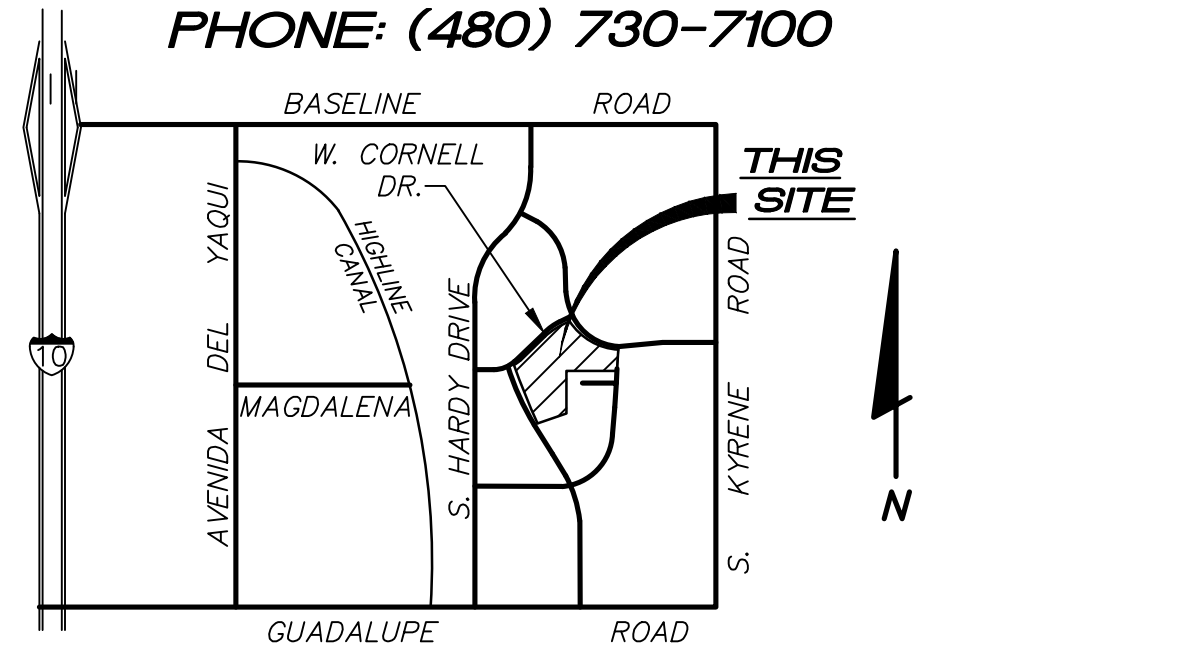
FOR

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

3205 S. RURAL ROAD

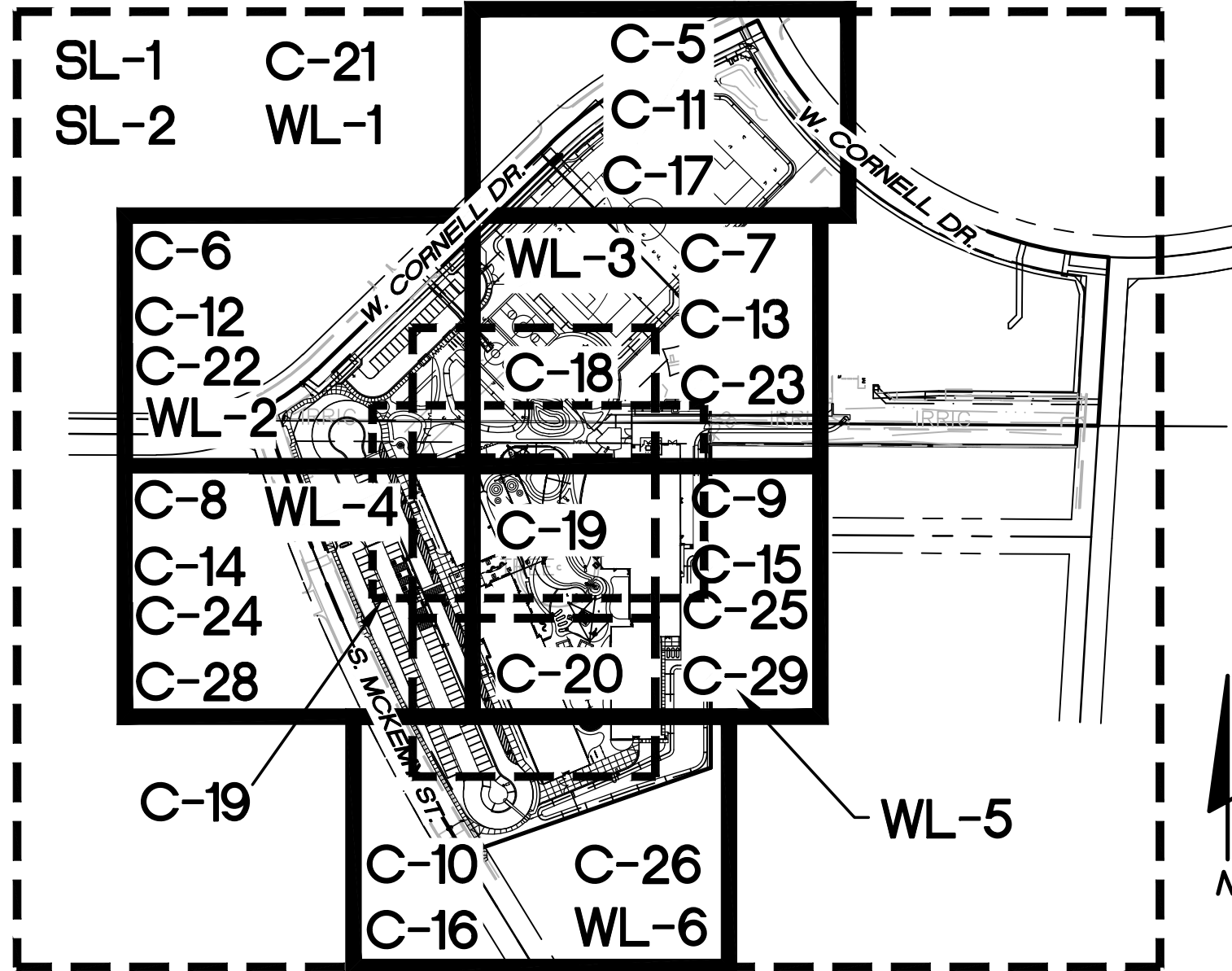
TEMPE, AZ 85282

PHONE: (480) 730-7100



VICINITY MAP

NOT TO SCALE



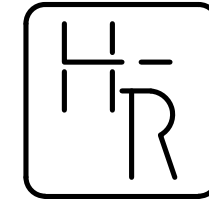
SHEET INDEX MAP

NOT TO SCALE

RETENTION BASIN SUMMARY TABLE:

NOTE:

THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE ONLY AND ARE AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF HESS-ROUNTREE, INC. NO REPRODUCTION OR OTHER USE SHALL BE MADE BY ANY PERSON OR FIRM OTHER THAN HESS-ROUNTREE, INC. OR THE CITY OF TEMPE WITHOUT EXPRESS PERMISSION OF HESS-ROUNTREE, INC. ANY UNAUTHORIZED USE SHALL VOID THE ENGINEER'S SEAL AND SIGNATURE HEREON AND NO PROFESSIONAL RESPONSIBILITY WILL REMAIN.



HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

PERMIT AND AS-BUILT INFORMATION BLOCK

TO BE PLACED ON THE COVER SHEET OF ALL PROJECTS REQUIRING PERMITS.

AS-BUILT INFORMATION IS INCLUDED IN THESE AREAS ON THIS SET OF DRAWINGS		PERMITS REQUIRED FOR THIS SET OF DRAWINGS
<input type="checkbox"/> SEWER	<input type="checkbox"/> U.G. FIRELINE	<input checked="" type="checkbox"/> DRAINAGE
<input type="checkbox"/> WATER	<input type="checkbox"/> CITY IRRIG.	<input checked="" type="checkbox"/> PAVING
<input type="checkbox"/> WATER—RECLAIMED	<input type="checkbox"/> BIKE PATH	<input checked="" type="checkbox"/> WATER
<input type="checkbox"/> STORM DRAIN	<input type="checkbox"/> LANDSCAPE	<input checked="" type="checkbox"/> SEWER
<input type="checkbox"/> DRYWELL	<input type="checkbox"/> SPRINKLER	<input checked="" type="checkbox"/> STREET LIGHTS
<input type="checkbox"/> PAVING	<input type="checkbox"/> STREET LIGHTS	<input type="checkbox"/> FLOODPLAIN
<input type="checkbox"/> OFFSITE (C,G,SW,DW)	<input type="checkbox"/> BUILDINGS	<input checked="" type="checkbox"/> U.G. FIRELINE
<input type="checkbox"/> GRADING/DRAINAGE	<input type="checkbox"/>	<input type="checkbox"/> OTHER
AS-BUILT PLANS CHECKED FOR FIELD CHANGES		PARCEL # _____
INSPECTOR: _____	DATE: _____	PROJECT # _____

AS-BUILT CERTIFICATION:

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

REGISTERED LAND SURVEYOR/ENGINEER _____ DATE _____

REGISTRATION NUMBER _____

BENCHMARK

CITY OF TEMPE BENCHMARK ID #247. FOUND CITY OF TEMPE BRASS CAP IN HANDHOLE LOCATED AT THE INTERSECTION OF HARDY DRIVE AND GUADALUPE ROAD.

ELEVATION=1216.65 (CITY OF TEMPE NGVD29 DATUM)

APPROVAL:

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPT.
DWR-19-00686 WWR-19-00548
DWR-19-00687 WWR-19-00549

10/22/2019

DATE

APPROVAL FOR OFFSITES AND DRAINAGE ONLY:

CITY OF TEMPE _____ DATE _____

* DRAINAGE AREA C:

C_w FOR DRAINAGE AREA C IS TAKEN AS 0.90 FOR CONSERVATIVE PURPOSES AND THIS VALUE 0.90 IS MORE THAN THE ACTUAL C_w FOR THE DRAINAGE AREA C.

ALL RETENTION CALCULATIONS WERE PERFORMED USING THE FOLLOWING EQUATIONS:

VOLUME REQUIRED:

V_R (100-YEAR, 2-HOUR STORM) = C (P/12) A, P = 2.20 IN

VOLUME PROVIDED:

V_P (RETENTION BASIN) = 0.5 (BASIN BOTTOM + BASIN HIGH WATER LINE) (DEPTH)

** THIS SITE CONSISTS OF TWO SCHOOL CAMPUSES. HOWEVER THE EXISTING GETZ SCHOOL IS NOT BEING IMPROVED AND IS LEFT AS IS. THE IMPROVEMENT AREA FOR THIS PROJECT IS 464,384 SF AND THIS IS ACTUALLY THE AREA REFLECTED IN THE RETENTION BASIN SUMMARY TABLE.

*** C_w = 0.74941 IS A CUMULATIVE AVERAGE OF C_w OF ALL DRAINAGE AREAS.

**** THE RETENTION REQUIRED AND THE RETENTION PROVIDED IN TEMPORARY RETENTION BASIN C IS NOT TAKEN INTO CONSIDERATION WHEN CALCULATING THE TOTAL VOLUME RETENTION REQUIRED AND THE TOTAL VOLUME RETENTION PROVIDED FOR THIS PROJECT. THE VOLUME RETENTION REQUIRED AND VOLUME RETENTION PROVIDED IN TEMPORARY BASIN C IS ALREADY ACCOUNTED FOR AS PART OF TOTAL VOLUME REQUIRED RETENTION AND TOTAL VOLUME RETENTION PROVIDED IN RETENTION BASIN D.

COVER SHEET

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR
WOOD ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET			
DATE: 10-21-19	1	40	C-1



727 W. CORNELL DRIVE

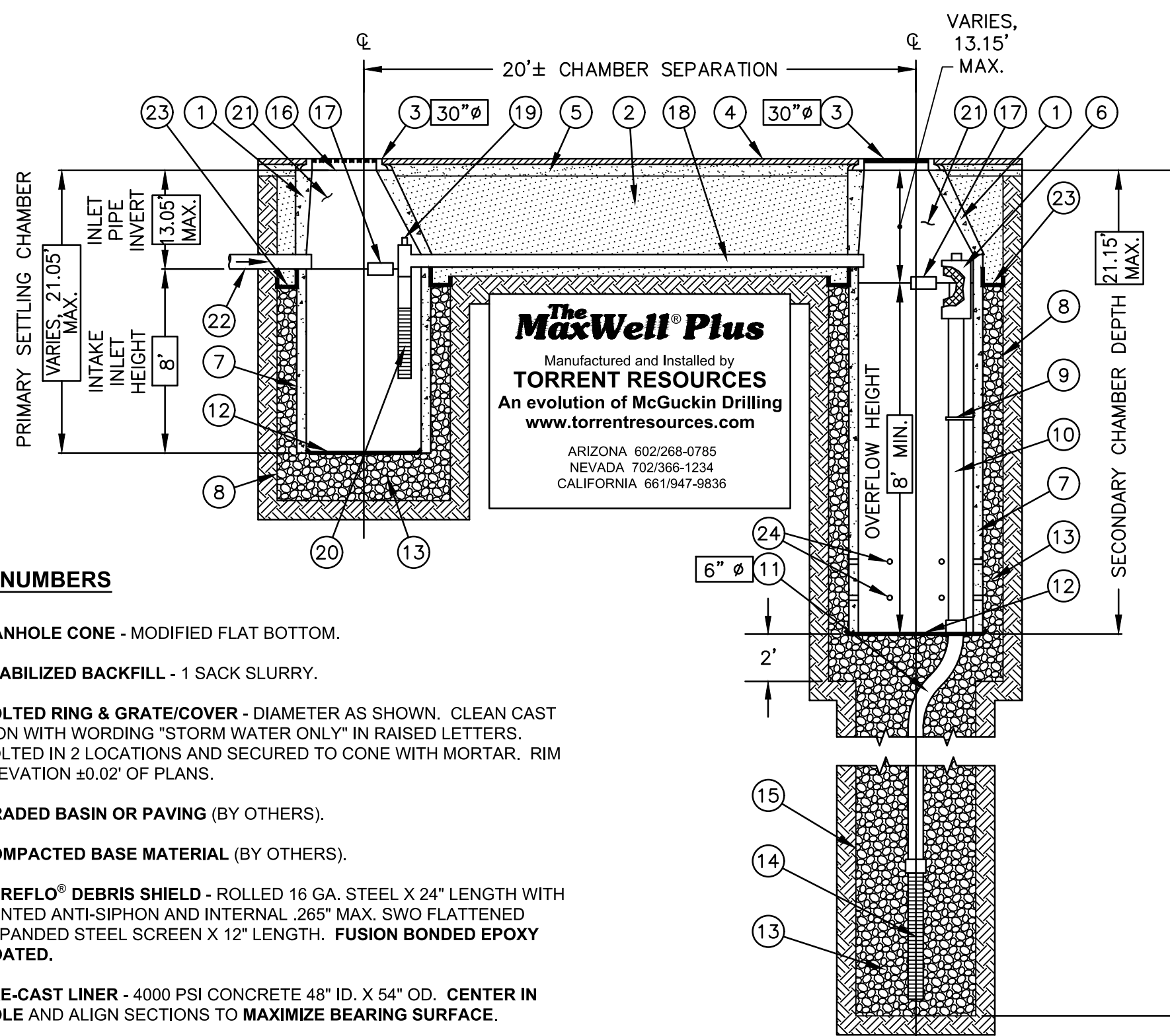
DS190362 EN190105

2019102601.DWG

The MaxWell® Plus Drainage System Detail And Specifications

NOTES:

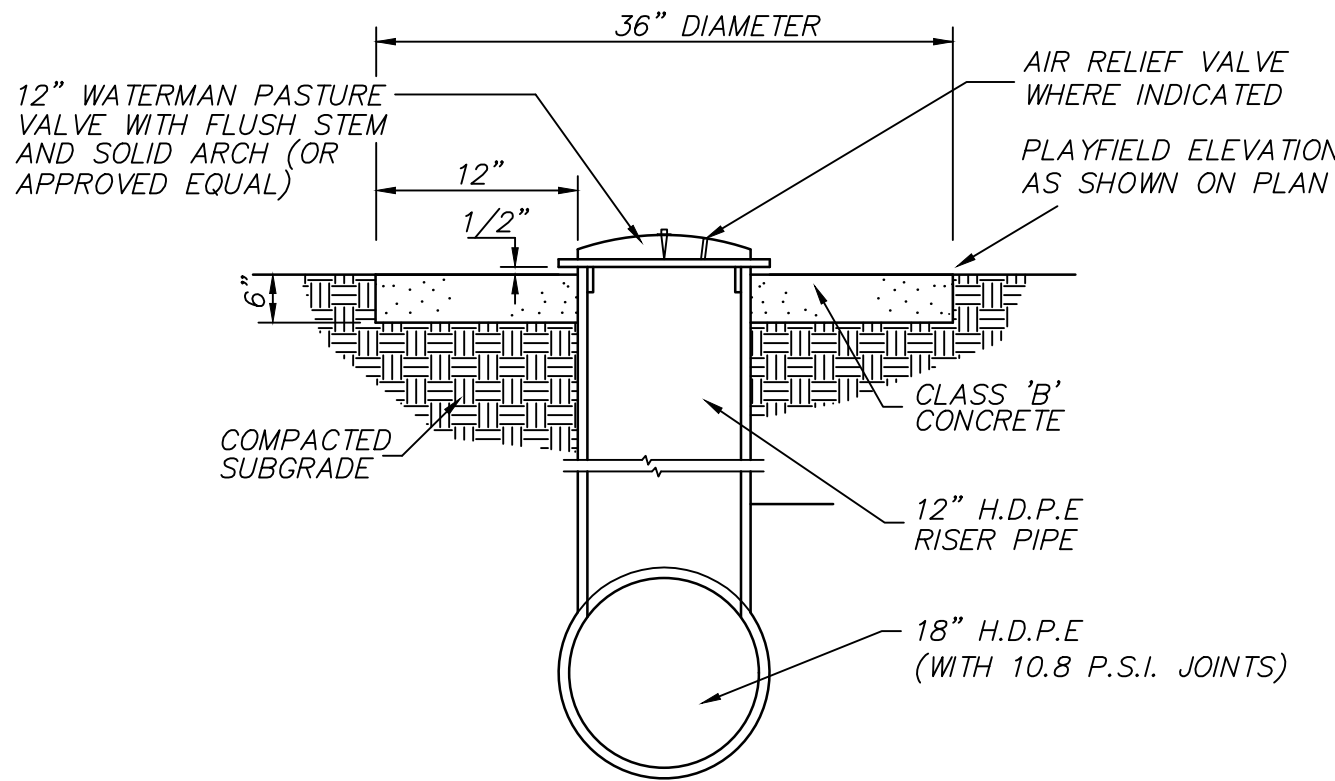
1. INSTALL 8" WIDE BY 8" THICK CONCRETE COLLAR AROUND GRATE (MAG CLASS B CONCRETE).
2. CONTRACTOR TO REGISTER DRYWELL WITH ADEQ.



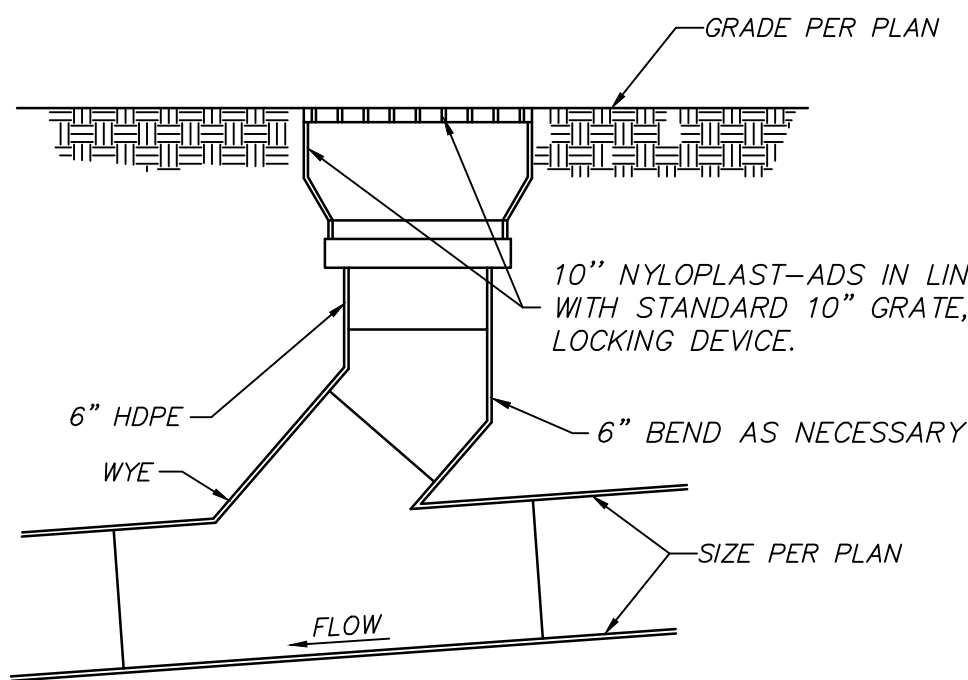
AZ Lic. RC02070665 A, RC03470767 B/L, ADMR 363
CA Lic. 520850, C-42, H-42
NV Lic. 0035350 A - NM Lic. 90504 GFD4
U.S. Patent No. 4,923,330 - "M" Trademark 1974, 1990, 2004

ITEM NUMBERS

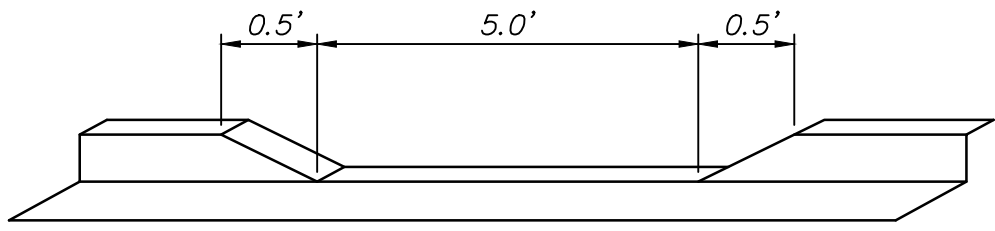
1. MANHOLE CONE - MODIFIED FLAT BOTTOM.
2. STABILIZED BACKFILL - 1 SACK SLURRY.
3. BOLTED RING & GRATE/COVER - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORDING "STORM WATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION $\pm 0.02'$ OF PLANS.
4. GRADED BASIN OR PAVING (BY OTHERS).
5. COMPACTED BASE MATERIAL (BY OTHERS).
6. PUREFLO® DEBRIS SHIELD - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. S.W.O. FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
7. PRE-CAST LINER - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
8. MIN. 6" Ø DRILLED SHAFT.
9. SUPPORT BRACKET - FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED.
10. OVERFLOW PIPE - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
11. DRAINAGE PIPE - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. BASE SEAL - GEOTEXTILE OR CONCRETE SLURRY.
13. ROCK - WASHED, SIZED BETWEEN 3/8" AND 1-1/2" TO BEST COMPLEMENT SOIL CONDITIONS.
14. FLOFAST® DRAINAGE SCREEN - SCH. 40 PVC Ø 120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. DIAMETER VARIES 120" OVERALL LENGTH WITH TRI-B COUPLER.
15. MIN. 4" Ø SHAFT - DRILLED TO MAINTAIN PERMEABILITY OF DRAINAGE SOILS.
16. FABRIC SEAL - U.V. RESISTANT GEOTEXTILE - TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.
17. ABSORBENT - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.
18. CONNECTOR PIPE - 4" Ø SCH. 40 PVC.
19. ANTI-SIPHON VENT WITH FLOW REGULATOR.
20. INTAKE SCREEN - SCH. 40 PVC Ø 120" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP.
21. FREEBOARD DEPTH VARIES WITH INLET PIPE ELEVATION. INCREASE PRIMARY/SECONDARY SETTLING CHAMBER DEPTHS AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE CONNECTOR PIPE OVERFLOW.
22. OPTIONAL INLET PIPE (BY OTHERS).
23. MOISTURE MEMBRANE - 6 MIL. PLASTIC. PLACE SECURELY AGAINST ECCENTRIC CONE AND HOLE SIDEWALL. USED IN LIEU OF SLURRY IN LANDSCAPED AREAS.
24. EIGHT (8) PERFORATIONS PER FOOT, 2 ROWS MIN.



PASTURE VALVE
NOT TO SCALE

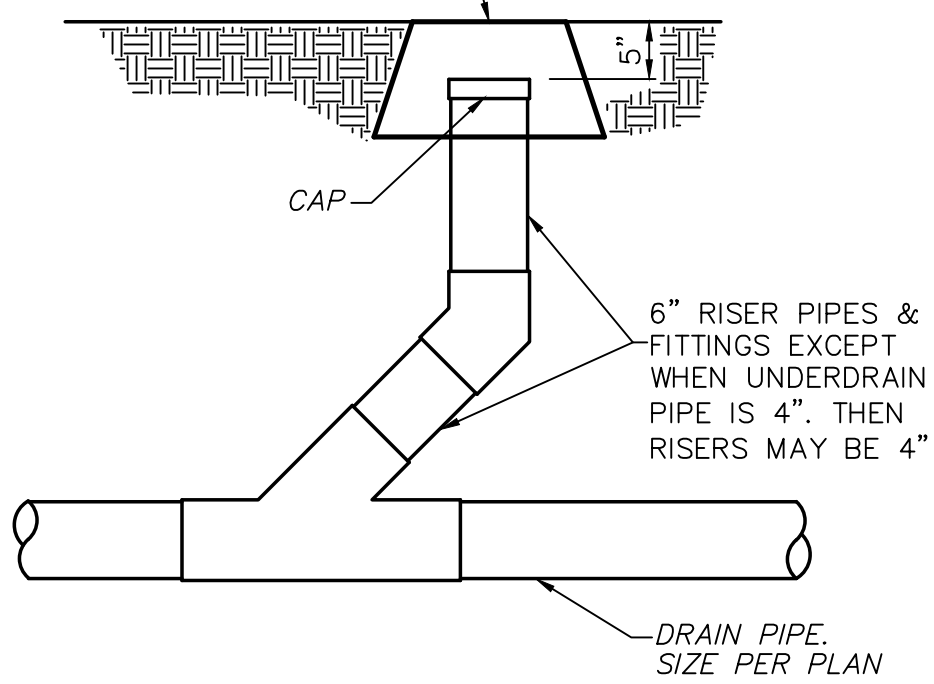


AREA DRAIN
NOT TO SCALE

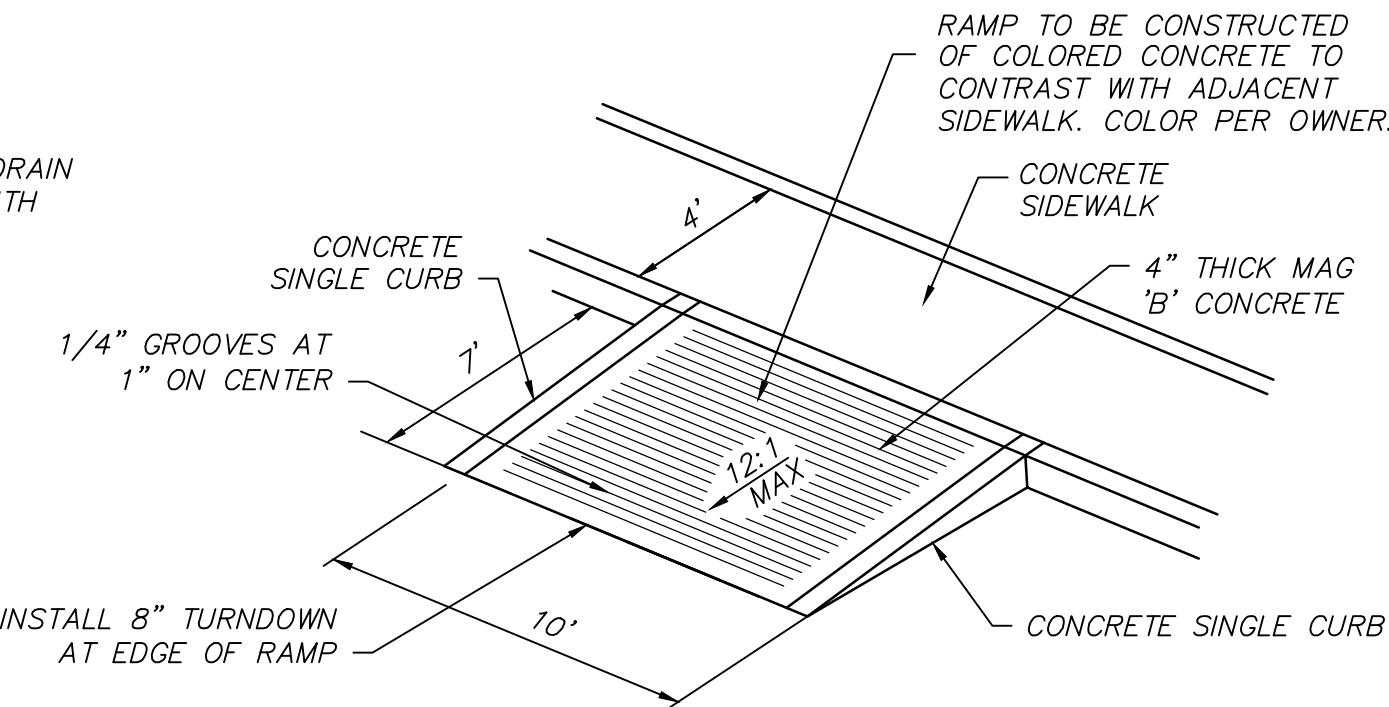


CURB OPENING DETAIL
NOT TO SCALE

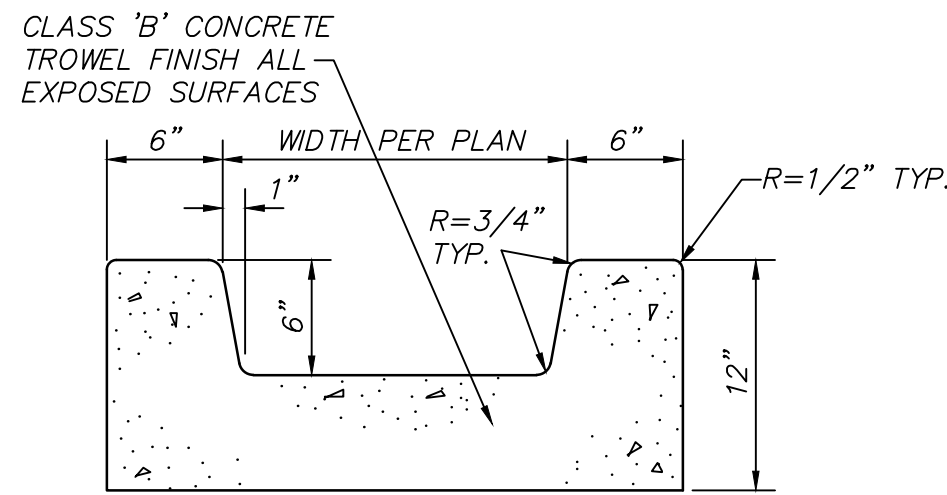
GREEN PLASTIC IRRIGATION BOX (10" DIA.) WITH BOLT LOCK COVER IN LANDSCAPED AREAS. USE TAN COLORED BOX IN GRANITE AREAS. IN PAVED AREAS BOX AND COVER SHALL BE CAST IRON PER MAG S.D. 270 W/ CHAIN ATTACHMENT



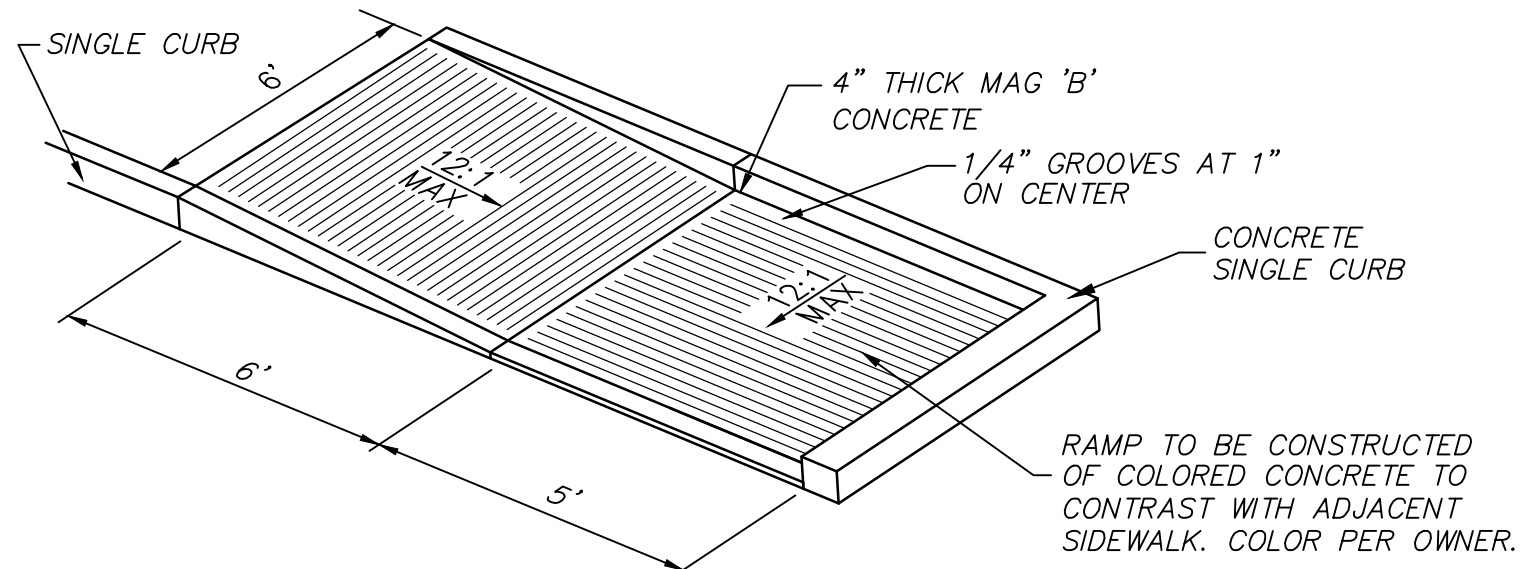
STORM DRAIN CLEANOUT
NOT TO SCALE



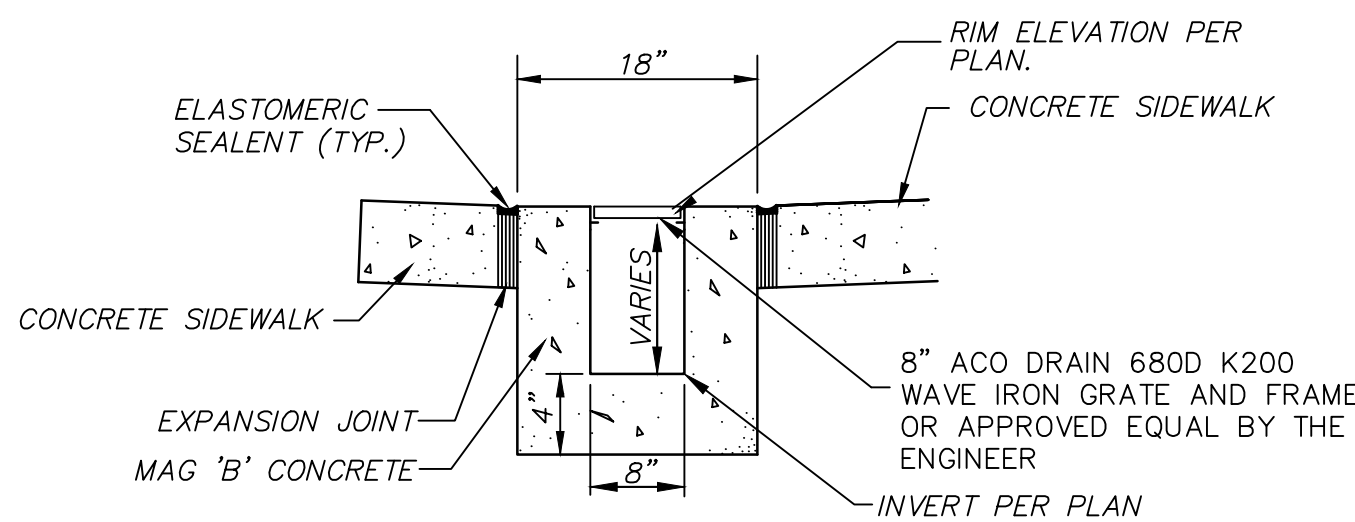
SIDEWALK RAMP, TYPE C
NOT TO SCALE



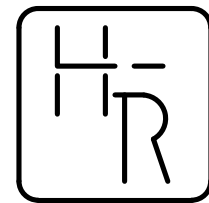
DRAIN THROUGH
LANDSCAPED AREAS
NOT TO SCALE



SIDEWALK RAMP TYPE "B"
NOT TO SCALE



UNDER DRAIN DETAIL
NOT TO SCALE



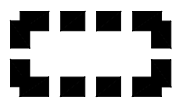
HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

LEGEND

- BC 1199.23 EXISTING BACK OF CURB ELEVATION
- G 1199.08 EXISTING GUTTER ELEVATION
- FL 1198.70 EXISTING FLOWLINE ELEVATION
- P 1199.28 EXISTING PAVEMENT ELEVATION
- SW 1199.07 EXISTING SIDEWALK ELEVATION
- C 1200.29 EXISTING CONCRETE ELEVATION
- TB 1200.11 EXISTING TOP OF BERM ELEVATION
- TS 1199.53 EXISTING TOE OF SLOPE ELEVATION
- NG 1201.47 EXISTING GROUND ELEVATION
- FF 1201.92 EXISTING FINISH FLOOR ELEVATION
- SAND 1201.39 EXISTING SAND ELEVATION
- SB 1202.48 EXISTING SPEED BUMP ELEVATION
- TW 1204.74 EXISTING TOP OF WALL ELEVATION
- EB EXISTING ELECTRIC BOX
- ER EXISTING ELECTRIC RISER
- SIGN EXISTING SIGN
- FH EXISTING FIRE HYDRANT
- WV EXISTING WATER VALVE
- UV EXISTING VALVE (TYPE UNKNOWN)
- WR EXISTING WATER RISER
- CBOX EXISTING COMMUNICATION BOX
- EXISTING AREA DRAIN

- EXISTING COLUMN
- EXISTING DRINKING FOUNTAIN
- EXISTING POST
- EXISTING LIGHT POLE
- EXISTING PASTURE VALVE
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING JUNCTION BOX
- EXISTING SANITARY SEWER MANHOLE
- EXISTING CRAWL SPACE ACCESS
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING ELECTRIC TRANSFORMER
- EXISTING HOSE BIB
- EXISTING UNDER DRAIN
- EXISTING WATER METER BOX
- BACKFLOW PREVENTER
- EXISTING GAS LINE MARKER
- EXISTING IRRIGATION MANHOLE
- EXISTING TREE



LIMITS OF DEMOLITION

F.F.=05.50 PROPOSED FINISH FLOOR ELEVATION

C=05.50 PROPOSED CONCRETE ELEVATION

F=05.17 PROPOSED FLOW LINE ELEVATION

TB=02.50 PROPOSED TOP OF BERM ELEVATION

TW=06.33 PROPOSED TOP OF WALL ELEVATION

G=04.14 PROPOSED GUTTER ELEVATION

FG=04.00 PROPOSED FINISH GRADE ELEVATION

TC=06.00 PROPOSED TOP OF CURB ELEVATION

DG=32.00 PROPOSED DEPRESSED GUTTER ELEVATION AT CATCH BASIN OR SCUPPER

S=2.00% PROPOSED SLOPE AND DIRECTION

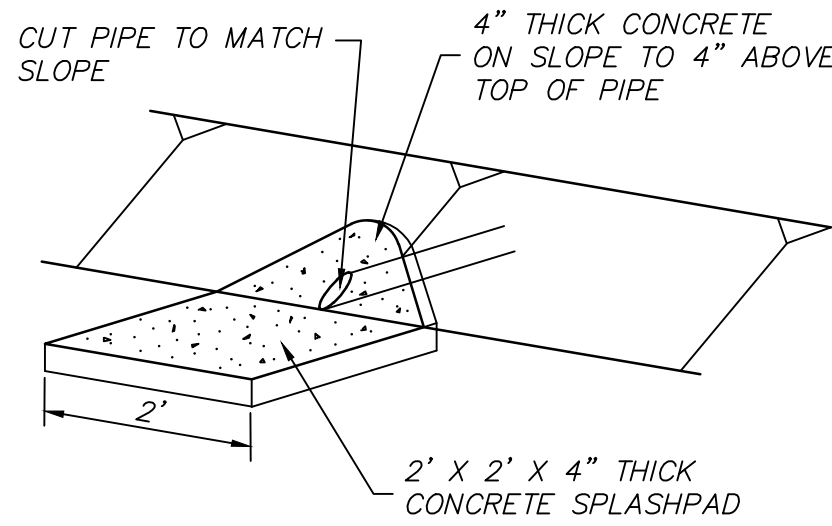
G.B. PROPOSED GRADE BREAK

PROPOSED A.C. PAVEMENT (3" A.C. (3/4 INCH) OVER 8" A.B.C. OVER COMPACTED SUBGRADE) IN DRIVEWAY AREAS

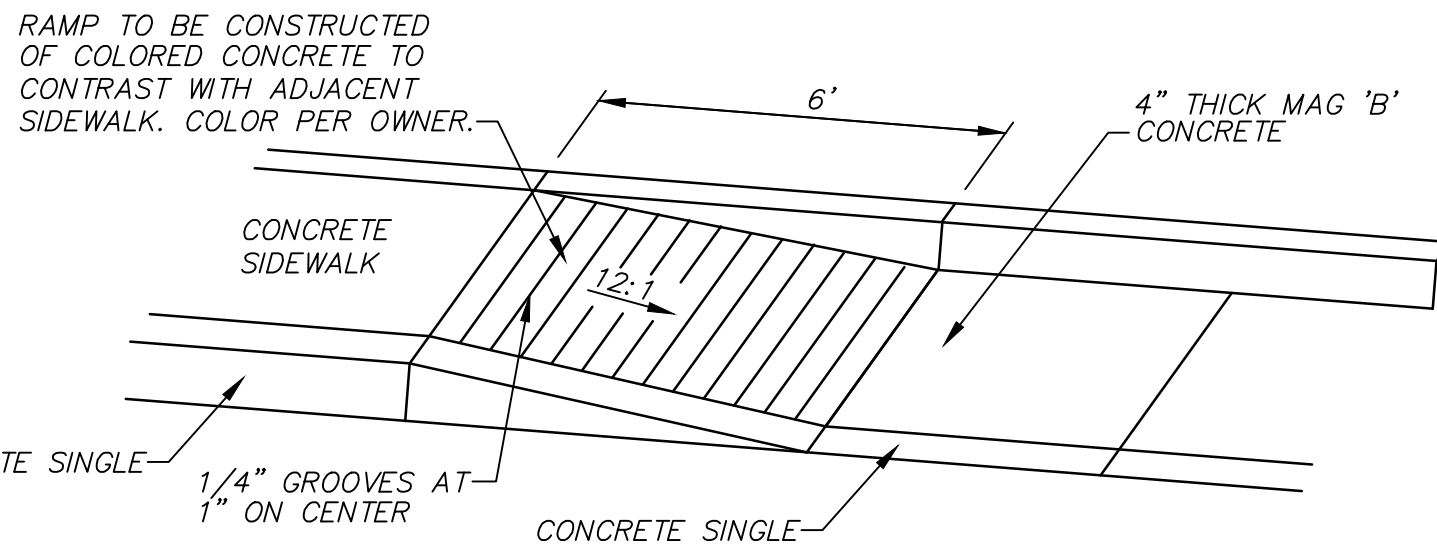
PROPOSED A.C. PAVEMENT (2" A.C. (3/4 INCH) OVER 6" A.B.C. OVER COMPACTED SUBGRADE) IN PARKING STALL AREAS

PROPOSED 8" THICK CONCRETE PAVING OVER OVER COMPACTED SUBGRADE

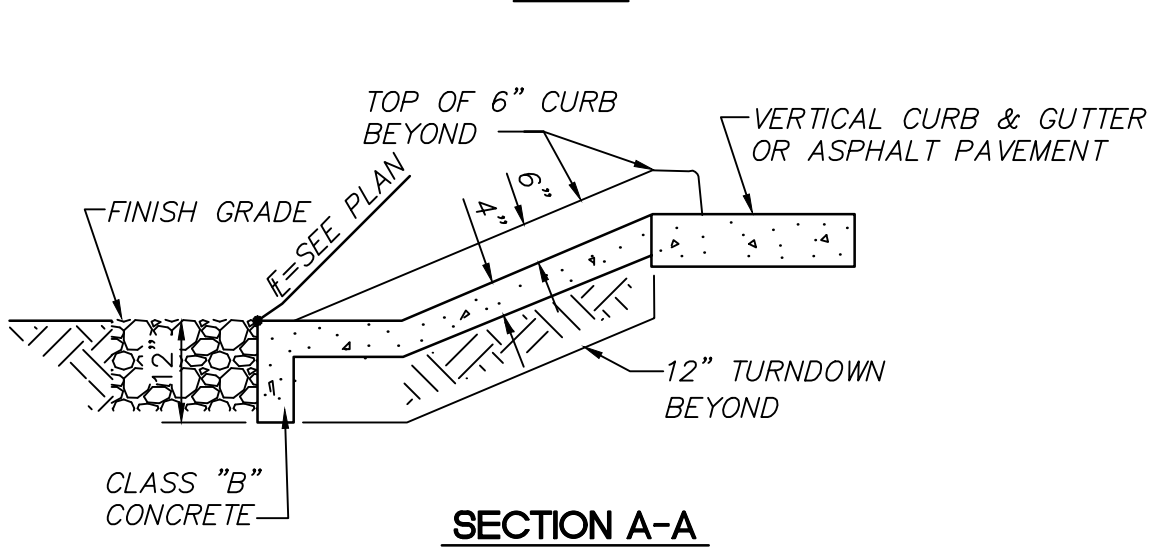
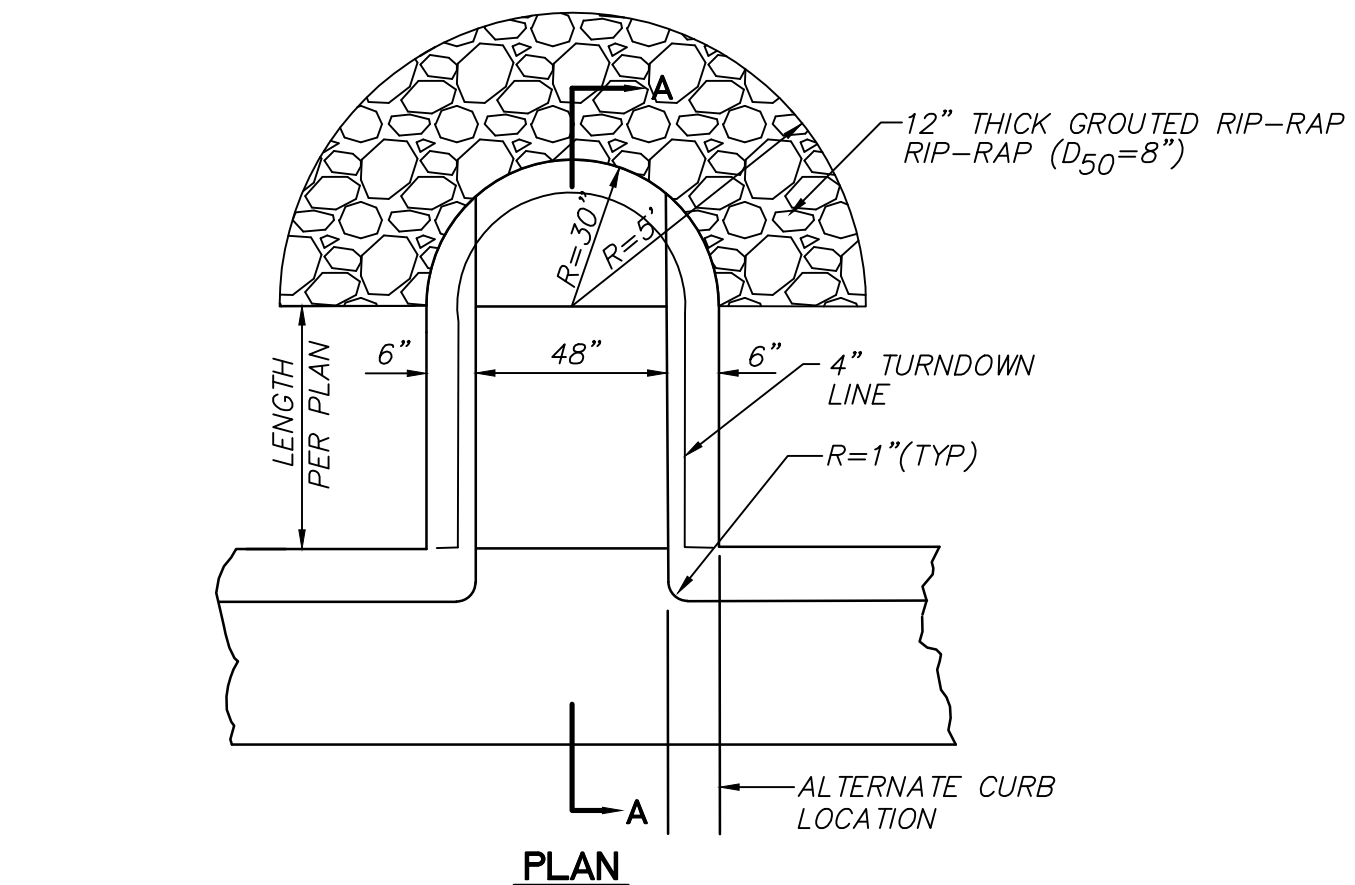
PROPOSED CONCRETE SIDEWALK



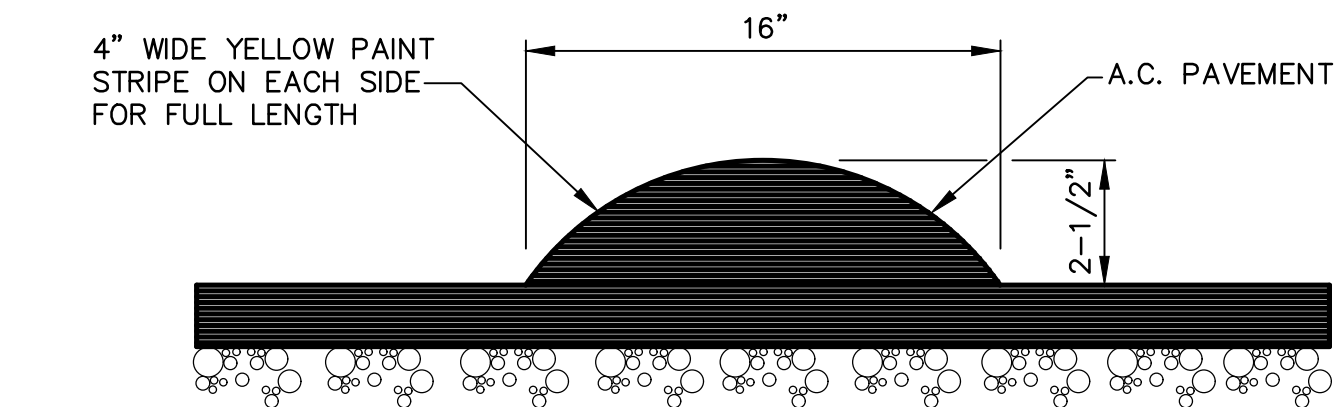
CONCRETE SPLASHPAD
NOT TO SCALE



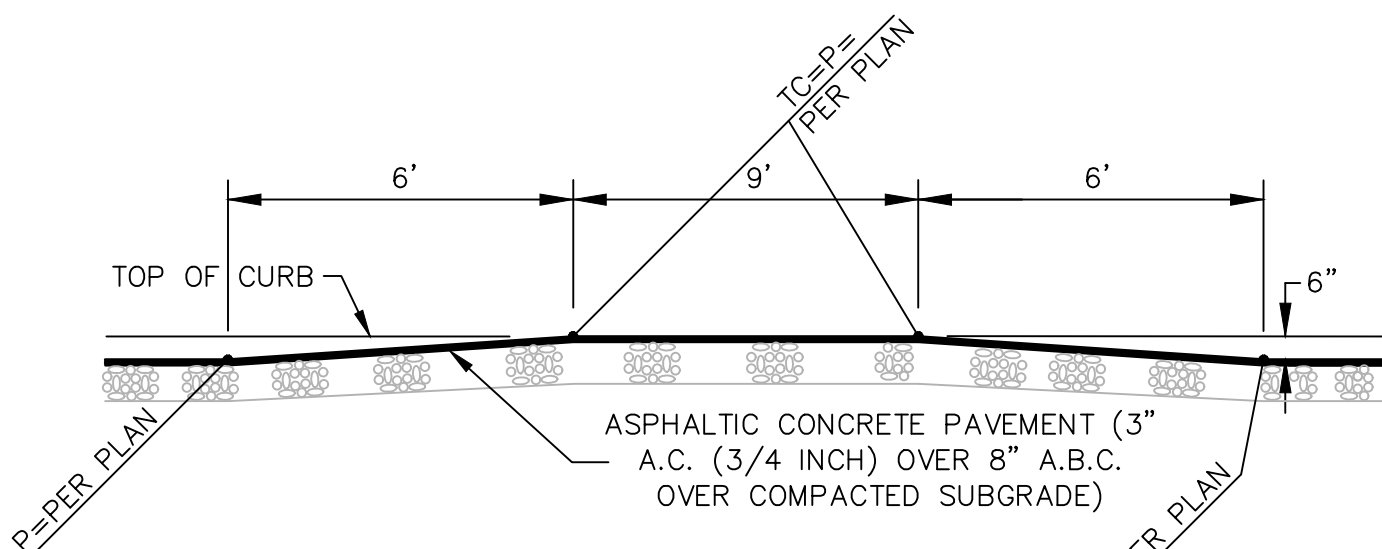
SIDEWALK RAMP, TYPE A
NOT TO SCALE



CONCRETE SPLASHPAD DETAIL
NOT TO SCALE



SPEED BUMP DETAIL
NOT TO SCALE



SPEED TABLE
NOT TO SCALE

LEGEND AND DETAILS SHEET

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR
WOOD ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET	2	40	C-2
DATE:	12-06-19		



CITY OF TEMPE GENERAL AND SITE PLAN NOTES:

1. ALL CONSTRUCTION UNDER THE PUBLIC WORKS PERMIT SHALL CONFORM TO THE CITY OF TEMPE SUPPLEMENT TO THE MAG SPECIFICATIONS AND DETAILS, MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS AND DETAILS (MAG SPECIFICATIONS AND DETAILS) AND CITY OF TEMPE TRAFFIC BARRICADE MANUAL.
2. A PERMIT ISSUED BY THE ENGINEERING DIVISION SHALL BE REQUIRED FOR ALL WORK IN THE CITY OF TEMPE RIGHTS OF WAY. AN INVESTIGATION ASSESSMENT, IN THE AMOUNT DEFINED BY SECTION 29-19 ENGINEERING FEES, APPENDIX A OF TEMPE CITY CODE, WILL BE CHARGED FOR ANY WORK WITHIN THE CITY OF TEMPE RIGHTS-OF-WAY IN WHICH A PERMIT HAS NOT BEEN ISSUED PRIOR TO COMMENCEMENT OF WORK.
3. THE CITY SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION WORK. CALL THE ENGINEERING REQUEST LINE AT (480) 350-8072 AT LEAST ONE BUSINESS DAY BEFORE START OF CONSTRUCTION TO REQUEST INSPECTIONS. CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
4. RIGHT OF WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
5. LOCATION OF ALL WATER VALVES, MANHOLES, AND CLEANOUTS MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE WATER AND WASTEWATER DIVISION.
6. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS AND ALL SURVEY MONUMENTS ARE INSTALLED ACCORDING TO THE PLANS.
7. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION, UTILITY RELOCATION, CONSTRUCTION STAKING OR AS-BUILT PLANS.
8. ALL EXISTING STREET MONUMENTS MUST BE PRESERVED. PRIOR TO CONSTRUCTION, MONUMENTS WILL BE REFERENCED HORIZONTALLY AND VERTICALLY. AFTER CONSTRUCTION, MONUMENTS SHALL BE RESET AND FIELD NOTES, INCLUDING NEW ELEVATION, SHALL BE FILED WITH THE CITY.
9. FIRE RISER, DETAILS AND FDC ARE FOR REFERENCE ONLY AND ARE NOT APPROVED ON THESE DRAWINGS. FIRE SPRINKLER PLANS MUST BE SUBMITTED FOR SEPARATE FIRE DEPARTMENT REVIEW AND APPROVAL.
10. ALL OVERHEAD UTILITY LINES (OTHER THAN TRANSMISSION LINES 12.5KV OR GREATER) THAT ON OR ADJACENT TO THE SITE, INCLUDING STREET OR ALLEY CROSSINGS, SHALL BE PLACED UNDERGROUND PER CITY CODE SECTION 25-120 THROUGH SECTION 25-126 AND ORDINANCE NO. 88.85.
11. ALL ONSITE PRIVATE UTILITIES AND DETAILS SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY AND ARE NOT APPROVED ON THESE DRAWINGS. SEE PLANS THAT ARE APPROVED BY BUILDING SAFETY FOR ONSITE PRIVATE UTILITIES.
12. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE. IT IS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER SEALING AND SIGNING THESE PLANS TO BE CERTAIN THAT THEY ARE IN FULL COMPLIANCE WITH TEMPE STANDARDS, DETAILS, CRITERION, LAWS AND ORDINANCES.
13. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
14. THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY, ON-SITE GRADING, DRAINAGE, WATER AND SEWER. THIS PLAN CHECK APPROVAL IS VALID FOR A PERIOD OF ONE YEAR FROM APPLICATION DATE. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL. ONE 6 MONTH EXTENSION MAY BE GRANTED UPON REQUEST IF THE REQUEST IS MADE PRIOR TO THE EXPIRATION OF THE ONE YEAR PERIOD AT A COST OF 25% OF THE TOTAL PLAN CHECK FEE. PERMITS MUST THEN BE ISSUED WITH 6 MONTHS AND THEY WILL BE VALID FOR ONE YEAR FROM ISSUE DATE, OTHERWISE, THE PROJECT EXPIRES AND PERMITS ARE VOIDED.
15. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
16. CONSTRUCTION ITEMS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
17. THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.
18. THE DEVELOPER IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE START OF NEW CONSTRUCTION.
19. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO APPROVAL OF IMPROVEMENT PLANS.
20. THE CONTRACTOR SHALL CONTACT ARIZONA BLUE STAKE AT 602-263-1100 AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION, IN ACCORDANCE WITH A.R.S. § 40-360.21, ET SEQ.
21. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF TEMPE TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
22. THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM CUSTOMER SERVICES. THIS METER SHOULD BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
23. ALL BROKEN OR DISPLACED EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE CITY OF TEMPE ENGINEERING DIVISION INSPECTOR.
24. ALL CITY FACILITIES, ALLEYS AND ROADWAY SURFACES DAMAGED BY DEVELOPER/CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED/RESTORED TO THE SATISFACTION OF THE CITY OF TEMPE ENGINEERING DIVISION INSPECTOR PER THE RESPECTIVE CITY AND/OR MAG STANDARD DETAIL.

KINDER MORGAN
GUIDELINES FOR CONSTRUCTION

1. CONTRACTORS SHALL BE ADVISED OF COMPANY'S REQUIREMENTS AND BE CONTRACTUALLY OBLIGATED TO COMPLY.
2. THE CONTINUED INTEGRITY OF COMPANY'S PIPELINES AND THE SAFETY OF ALL INDIVIDUALS IN THE AREA OF PROPOSED WORK NEAR COMPANY'S FACILITIES ARE OF THE UTMOST IMPORTANCE. THEREFORE, CONTRACTOR MUST MEET WITH COMPANY REPRESENTATIVES PRIOR TO CONSTRUCTION TO PROVIDE AND RECEIVE NOTIFICATION LISTINGS FOR APPROPRIATE AREA OPERATIONS AND EMERGENCY PERSONNEL. COMPANY'S ON-SITE REPRESENTATIVE WILL REQUIRE DISCONTINUATION OF ANY WORK THAT, IN HIS OPINION, ENDANGERS THE OPERATIONS OR SAFETY OF PERSONNEL, PIPELINES OR FACILITIES.
3. THE CONTRACTOR MUST EXPOSE ALL COMPANY TRANSMISSION AND DISTRIBUTION LINES PRIOR TO CROSSING TO DETERMINE THE EXACT ALIGNMENT AND DEPTH OF THE LINES. A COMPANY REPRESENTATIVE MUST BE PRESENT. IN THE EVENT OF PARALLEL LINES, ONLY ONE PIPELINE CAN BE EXPOSED AT A TIME.
4. COMPANY WILL NOT ALLOW PIPELINES TO REMAIN EXPOSED OVERNIGHT WITHOUT CONSENT OF COMPANY DESIGNATED REPRESENTATIVE. CONTRACTOR MAY BE REQUIRED TO BACKFILL PIPELINES AT THE END OF EACH DAY.
5. A COMPANY REPRESENTATIVE SHALL DO ALL LINE LOCATING. A COMPANY REPRESENTATIVE SHALL BE PRESENT FOR HYDRAULIC EXCAVATION. THE USE OF PROBING RODS FOR PIPELINE LOCATING SHALL BE PERFORMED BY COMPANY REPRESENTATIVES ONLY, TO PREVENT UNNECESSARY DAMAGE TO THE PIPELINE COATING.
6. NOTIFICATION SHALL BE GIVEN TO COMPANY AT LEAST 72 HOURS BEFORE START OF CONSTRUCTION. A SCHEDULE OF ACTIVITIES FOR THE DURATION OF THE PROJECT MUST BE MADE AVAILABLE AT THAT TIME TO FACILITATE THE SCHEDULING OF COMPANY'S WORK SITE REPRESENTATIVE. ANY CONTRACTOR SCHEDULE CHANGES SHALL BE PROVIDED TO COMPANY IMMEDIATELY.
7. HEAVY EQUIPMENT WILL NOT BE ALLOWED TO OPERATE DIRECTLY OVER COMPANY PIPELINES OR IN COMPANY ROW UNLESS WRITTEN APPROVAL IS OBTAINED FROM COMPANY. HEAVY EQUIPMENT SHALL ONLY BE ALLOWED TO CROSS COMPANY PIPELINES AT LOCATIONS DESIGNATED BY COMPANY. CONTRACTOR SHALL COMPLY WITH ALL PRECAUTIONARY MEASURES REQUIRED BY COMPANY TO PROTECT ITS PIPELINES. WHEN INCLEMENT WEATHER EXISTS, PROVISIONS MUST BE MADE TO COMPENSATE FOR SOIL DISPLACEMENT DUE TO SUBSIDENCE OF TIRES.
8. EXCAVATING OR GRADING WHICH MIGHT RESULT IN EROSION OR WHICH COULD RENDER THE COMPANY ROW INACCESSIBLE SHALL NOT BE PERMITTED UNLESS THE CONTRACTOR/DEVELOPER/OWNER AGREES TO RESTORE THE AREA TO ITS ORIGINAL CONDITION AND PROVIDE PROTECTION TO COMPANY'S FACILITY.
9. A COMPANY REPRESENTATIVE SHALL BE ON-SITE TO MONITOR ANY CONSTRUCTION ACTIVITIES WITHIN 25- FEET OF A COMPANY PIPELINE OR ABOVEGROUND APPURTENANCE. THE CONTRACTOR SHALL NOT WORK WITHIN THIS DISTANCE WITHOUT A COMPANY REPRESENTATIVE BEING ON SITE. ONLY HAND EXCAVATION SHALL BE PERMITTED WITHIN A MINIMUM OF 18-INCHES (REFER TO STATE SPECIFIC RULES/REGULATIONS REGARDING ANY ADDITIONAL CLEARANCE REQUIREMENTS) OF COMPANY PIPELINES, VALVES AND FITTINGS. HOWEVER, PROCEED WITH EXTREME CAUTION WHEN WITHIN THREE (3) FEET OF THE PIPE.
10. RIPPING IS ONLY ALLOWED WHEN THE POSITION OF THE PIPE IS KNOWN AND NOT WITHIN 10- FEET OF COMPANY FACILITY UNLESS COMPANY REPRESENTATIVE IS PRESENT.
11. TEMPORARY SUPPORT OF ANY EXPOSED COMPANY PIPELINE BY CONTRACTOR MAY BE NECESSARY IF REQUIRED BY COMPANY'S ON-SITE REPRESENTATIVE. BACKFILL BELOW THE EXPOSED LINES AND 12-INCHES ABOVE THE LINES SHALL BE REPLACED WITH SAND OR OTHER SELECTED MATERIAL AS APPROVED BY COMPANY'S ON-SITE REPRESENTATIVE AND THOROUGHLY COMPACTED IN 12-INCHES LIFTS TO 95% OF STANDARD PROCTOR DRY DENSITY MINIMUM OR AS APPROVED BY COMPANY'S ON-SITE REPRESENTATIVE. THIS IS TO ADEQUATELY PROTECT AGAINST STRESSES THAT MAY BE CAUSED BY THE SETTLING OF THE PIPELINE.
12. NO BLASTING SHALL BE ALLOWED WITHIN 1000- FEET OF COMPANY'S FACILITIES UNLESS BLASTING NOTIFICATION IS GIVEN TO COMPANY INCLUDING COMPLETE BLASTING PLAN DATA. A PRE-BLAST MEETING SHALL BE CONDUCTED BY THE ORGANIZATION RESPONSIBLE FOR BLASTING.

COMPANY SHALL BE INDEMNIFIED AND HELD HARMLESS FROM ANY LOSS, COST OF LIABILITY FOR PERSONAL INJURIES RECEIVED, DEATH CAUSED OR PROPERTY DAMAGE SUFFERED OR SUSTAINED BY ANY PERSON RESULTING FROM ANY BLASTING OPERATIONS UNDERTAKEN WITHIN 500- FEET OF ITS FACILITIES. THE ORGANIZATION RESPONSIBLE FOR BLASTING SHALL BE LIABLE FOR ANY AND ALL DAMAGES CAUSED TO COMPANY'S FACILITIES AS A RESULT OF THEIR ACTIVITIES WHETHER OR NOT COMPANY REPRESENTATIVES ARE PRESENT. COMPANY SHALL HAVE A SIGNED AND EXECUTED BLASTING INDEMNIFICATION AGREEMENT BEFORE AUTHORIZED PERMISSION TO BLAST CAN BE GIVEN.

NO BLASTING SHALL BE ALLOWED WITHIN 300- FEET OF COMPANY'S FACILITIES UNLESS BLASTING NOTIFICATION IS GIVEN TO COMPANY A MINIMUM OF ONE WEEK BEFORE BLASTING. (NOTE: COVERED ABOVE) COMPANY SHALL REVIEW AND ANALYZE THE BLASTING METHODS. A WRITTEN BLASTING PLAN SHALL BE PROVIDED BY THE ORGANIZATION RESPONSIBLE FOR BLASTING AND AGREED TO IN WRITING BY COMPANY IN ADDITION TO MEETING REQUIREMENTS FOR 500- FEET AND 1000- FEET BEING MET ABOVE. A WRITTEN EMERGENCY PLAN SHALL BE PROVIDED BY THE ORGANIZATION RESPONSIBLE FOR BLASTING. (NOTE: COVERED ABOVE)
13. ANY CONTACT WITH ANY COMPANY FACILITY, PIPELINE, VALVE SET, ETC. SHALL BE REPORTED IMMEDIATELY TO COMPANY. IF REPAIRS TO THE PIPE ARE NECESSARY, THEY WILL BE MADE AND INSPECTED BEFORE THE SECTION IS RE-COATED AND THE LINE IS BACK-FILLED.
14. COMPANY PERSONNEL SHALL INSTALL ALL TEST LEADS ON COMPANY FACILITIES.
15. BURNING OF TRASH, BRUSH, ETC. IS NOT PERMITTED WITHIN THE COMPANY ROW.

LEGAL DESCRIPTION:

THAT PART OF THE SCHOOL SITE IN THE NORTH EAST QUARTER (1/4), SECTION FOUR (4), TOWNSHIP ONE (1) SOUTH, RANGE FOUR (4) EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, DESCRIBED AS FOLLOWS:
COMMENCING AT THE CENTER OF SAID SECTION FOUR (4);
THENCE SOUTH 0°23'53" WEST AND AT RIGHT ANGLES TO THE EAST-WEST MIDSECTION LINE A DISTANCE OF 22.30 FEET TO A POINT ON THE CENTER LINE OF A NATURAL GAS PIPELINE;
THENCE SOUTH 89°43'42" EAST ALONG SAID PIPELINE A DISTANCE OF 206.43 FEET TO A POINT OF TANGENCY WITH A CURVE TO THE LEFT, SAID CURVE HAVING A RADIUS OF 330.00 FEET;
THENCE NORTHEASTERLY ALONG SAID CURVE FOR A CENTRAL ANGLE OF 27°45'41" AND A DISTANCE OF 159.89 FEET TO THE TRUE POINT OF BEGINNING;
THENCE CONTINUING ALONG SAID CURVE FOR A CENTRAL ANGLE OF 16°36'37" AND A DISTANCE OF 95.67 FEET TO A POINT;
THENCE NORTH 45°54'00" EAST A DISTANCE OF 446.88 FEET TO A POINT;
THENCE SOUTH 44°06'00" EAST A DISTANCE OF 349.47 FEET TO A POINT;
THENCE SOUTH 0°05'11" EAST A DISTANCE OF 136.72 FEET TO A POINT ON THE EAST-WEST MIDSECTION LINE;
THENCE NORTH 89°36'07" WEST ALONG SAID MIDSECTION LINE A DISTANCE OF 636.57 FEET TO A POINT ON A NON-TANGENT CURVE, THE TANGENT OF SAID CURVE BEARS NORTH 17°19'32" WEST, SAID CURVE BEING CONCAVE TO THE EAST AND HAVING A RADIUS OF 2760.00 FEET;
THENCE NORTHERLY ALONG SAID CURVE FOR A CENTRAL ANGLE OF 0°21'32" AND A DISTANCE OF 17.28 FEET TO THE TRUE POINT OF BEGINNING.
PARCEL NO. 2
THAT PART OF THE SCHOOL SITE IN THE SOUTH EAST QUARTER (1/4), SECTION FOUR (4), TOWNSHIP ONE (1) SOUTH, RANGE FOUR (4) EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, DESCRIBED AS FOLLOWS:
COMMENCING AT THE CENTER OF SAID SECTION FOUR (4);
THENCE SOUTH 89°36'07" EAST ALONG THE EAST-WEST MIDSECTION LINE A DISTANCE OF 365.26 FEET TO THE TRUE POINT OF BEGINNING;
THENCE CONTINUE SOUTH 89°36'07" EAST ALONG SAID MIDSECTION LINE A DISTANCE OF 636.57 FEET TO A POINT;
THENCE SOUTH 00°05'11" EAST A DISTANCE OF 495.37 FEET TO A POINT;
THENCE SOUTH 70°44'00" WEST A DISTANCE OF 374.79 FEET TO A POINT ON A NON-TANGENT CURVE, THE TANGENT OF SAID CURVE BEARS NORTH 31°34'48" WEST, SAID CURVE BEING CONCAVE TO THE NORTHEAST AND HAVING A RADIUS OF 2760.00 FEET;
THENCE NORTHWESTERLY ALONG SAID CURVE FOR A CENTRAL ANGLE OF 14°15'16" AND A DISTANCE OF 686.65 FEET TO THE TRUE POINT OF BEGINNING.
PARCEL NO. 3
THAT PART OF THE NORTH EAST QUARTER (1/4) OF SECTION FOUR (4), TOWNSHIP ONE (1) SOUTH, RANGE FOUR (4) EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, DESCRIBED AS FOLLOWS:
COMMENCING AT THE CENTER OF SAID SECTION FOUR (4);
THENCE SOUTH 89°36'07" EAST ALONG THE EAST-WEST MIDSECTION LINE A DISTANCE OF 1001.83 FEET TO THE TRUE POINT OF BEGINNING;
THENCE NORTH 00°05'11" WEST A DISTANCE OF 136.72 FEET TO A POINT;
THENCE NORTH 44°06'00" WEST A DISTANCE OF 349.47 FEET TO A POINT;
THENCE NORTH 45°54'00" EAST A DISTANCE OF 19.75 FEET TO A POINT OF TANGENCY WITH A CURVE CONCAVE TO THE SOUTHEAST AND HAVING A RADIUS OF 600.00 FEET AND A CENTRAL ANGLE OF 18°31'68";
THENCE NORTHEASTERLY ALONG SAID CURVE A DISTANCE OF 194.07 FEET TO A POINT;
THENCE NORTH 64°25'58" EAST ALONG A LINE TANGENT TO THE LAST DESCRIBED COURSE, A DISTANCE OF 154.00 FEET TO A POINT ON A NON-TANGENT CURVE, THE TANGENT OF SAID CURVE BEARS SOUTH 25°34'02" EAST, SAID CURVE BEING CONCAVE TO THE NORTHEAST AND HAVING A RADIUS OF 600.00 FEET AND A CENTRAL ANGLE OF 60°54'00";
THENCE SOUTHEASTERLY ALONG SAID CURVE A DISTANCE OF 637.74 FEET TO A POINT;
THENCE SOUTH 03°31'58" WEST ALONG A RADIAL LINE A DISTANCE OF 242.68 FEET TO A POINT ON THE EAST-WEST MIDSECTION LINE;
THENCE NORTH 89°36'07" WEST ALONG THE EAST-WEST MIDSECTION LINE A DISTANCE OF 557.64 FEET TO THE TRUE POINT OF BEGINNING.
PARCEL 4:
TRACT A OF PEPPERWOOD UNIT 4, ACCORDING TO THE PLAT OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF MARICOPA COUNTY, ARIZONA, IN BOOK 195, OF MAPS , PAGE 28.

CITY OF TEMPE ONSITE DRAINAGE
PLAN NOTES:

1. A PUBLIC WORKS PERMIT ISSUED BY THE ENGINEERING DIVISION SHALL BE REQUIRED FOR THE ONSITE DRAINAGE OF THE PROJECT.

2. DRYWELLS MUST BE REGISTERED WITH THE ARIZONA STATE DEPARTMENT OF ENVIRONMENTAL QUALITY. AN AQUIFER PROTECTION (APP) MAY ALSO BE REQUIRED.

3. PRIOR TO ACCEPTANCE THE OWNER/DEVELOPER SHALL FURNISH THE FOLLOWING:

A. DRILLING LOG AND CERTIFICATION OF COMPLIANCE FOR ALL DRY WELLS.

B. A 3 MIL MINIMUM DOUBLE MATTE, BLACK AND WHITE REPRODUCIBLE MYLAR COPY OF THE APPROVED PLANS WITH THIS CERTIFICATION SIGNED BY A REGISTERED PROFESSIONAL ENGINEER:

"THIS IS TO CERTIFY THAT AN ACTUAL FIELD SURVEY WAS MADE UNDER MY SUPERVISION OF THE SUBJECT SITE AND THAT FINISH FLOOR AND RETENTION ELEVATIONS ARE THE TRUE "AS-BUILT" CONDITIONS, AND THEY MEET OR EXCEED THE ORIGINAL RETENTION REQUIREMENTS AS SHOWN ON THIS APPROVED PLAN."

4. ENGINEER DATE ARIZONA P.E. NUMBER

5. UNDERGROUND STORM WATER STORAGE SYSTEMS WHEN USED AND SPECIFICALLY APPROVED BY THE CITY ENGINEER, OR DESIGNEE, SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER, INCLUDING THE DESIGN, CONSTRUCTION, INSPECTION, MONITORING AND MAINTENANCE. THE OWNER SHALL BE LIABLE FOR ANY AND ALL CLAIMS RESULTING THERE FROM. THE CITY OF TEMPE, BY ALLOWING THIS SYSTEM ASSUMES NO LIABILITY OR RESPONSIBILITY FOR THE DESIGN, CONSTRUCTION, INSPECTION, MONITORING, AND/OR MAINTENANCE OF THE SYSTEM. A DEED RESTRICTION DESCRIBING THE SYSTEM SHALL BE RECORDED. THIS DOCUMENT SHALL STATE THAT THE DEED RESTRICTION CANNOT BE RELINQUISHED OR ABANDONED WITHOUT THE WRITTEN APPROVAL OF THE CITY OF TEMPE.

6. ALL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE SPECIFICATIONS OF VOLUME III, EROSION CONTROL, OF THE DRAINAGE DESIGN MANUAL ISSUED BY THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (2012). THE PERIMETER OF THE PROJECT SITE SHALL HAVE BMPs IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). DESIGNATED WASHDOWN AREAS SHALL BE ONSITE AND FOLLOW THE SPECIFICATIONS OF THE GENERAL HOUSEKEEPING BEST MANAGEMENT PRACTICE GH-4. ONSITE STOCK PILES SHALL HAVE PERIMETER CONTROL BMPs INSTALLED AROUND THE STOCK PILE. OFFSITE STORM DRAIN INLETS SHALL BE PROTECTED BY BMP SPC-7 IF UPSTREAM CONSTRUCTION ACTIVITIES MAY RESULT IN STORMWATER DISCHARGES.

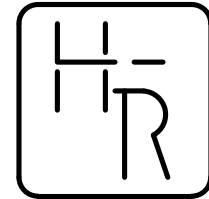
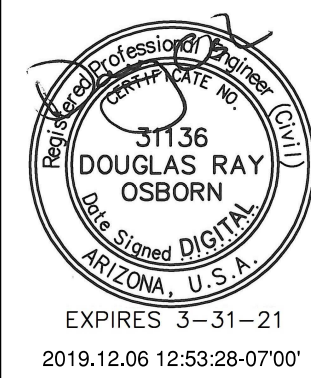
CITY OF TEMPE SEWER, WATER AND
UTILITY PLAN NOTES:

1. THE CONTRACTOR SHALL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION, SIZE, MATERIAL TYPE, ETC. PRIOR TO CONSTRUCTION OF NEW LINES. THE CONTRACTOR WILL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRIC CONDUITS, AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO SAME. CALL BLUE STAKE AT 602-263-1100.
2. SUMMITS IN WATER LINES SHALL BE LOCATED AT FIRE HYDRANTS.
3. BACKFILLING SHALL NOT BE STARTED UNTIL LINES ARE APPROVED BY THE ENGINEERING DIVISION.
4. IF A BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE INSTALLED, THE CONTRACTOR WILL CALL THE DEVELOPMENT SERVICES DEPARTMENT AT 480-350-8341 FOR AN INSPECTION BEFORE BACKFILLING THE ASSEMBLY.
5. ALL PUBLIC WATER LINES SHALL BE PRESSURE CLASS 350 DIP, PROTECTED WITH HIGH DENSITY POLYETHYLENE CORROSION PROTECTION PER MAG SPECIFICATION 610.
6. ALL NEW WATER AND SEWER CONNECTIONS TO EXISTING LINES SHALL BE DONE ONLY BY OPEN-CUT ON MAJOR ARTERIAL STREETS, MAJOR INTERSECTIONS OR THE PRESENCE OF A MAJOR WATER OR SEWER LINE. BORED INSTALLATIONS MUST BE CLEARLY IDENTIFIED AND SPECIFICALLY APPROVED BY THE CITY ENGINEER, OR DESIGNEE.
7. ALL ON-SITE SEWER SYSTEMS ARE CONSIDERED PRIVATE UNLESS OTHERWISE NOTED ON PLANS AND MUST BE APPROVED BY THE CITY OF TEMPE BUILDING SAFETY DIVISION OF THE DEVELOPMENT SERVICES DEPARTMENT.
8. IN ACCORDANCE WITH AAC R18-4-119, 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.
9. ALL MANHOLE INSTALLATIONS SHALL BE COMPLETE IN PLACE INCLUDING ALL EXCAVATION, BACKFILL, SWEEPS, AND CONDUITS NECESSARY TO COMPLETE THE INSTALLATION OF THE MANHOLE AND CONNECTIONS TO THE MAINLINE CONDUITS.
10. FOR THE EXISTING SEWER STUB CONNECTIONS ONLY. (TO BE SIGNED ON "AS-BUILT" MYLAR.) "THIS IS TO CERTIFY THAT AN ACTUAL FIELD FLOW TEST ON THE EXISTING SEWER STUB WAS PERFORMED AND WAS FOUND TO BE ACCEPTABLE AND FREE OF ANY OBSTRUCTIONS PRIOR TO FINAL BUILDING CONNECTION"

- ENGINEER DATE ARIZONA P.E. NUMBER
11. ALL VALVES SHALL BE FLANGED TO FITTINGS, PREFERABLY TEES.
12. THRUST & ANCHOR BLOCKS PER MAG STANDARD DETAIL 301, 380 & 381.
13. ONLY THE CITY OF TEMPE WATER UTILITIES DIVISION PERSONAL SHALL OPERATE ANY EXISTING VALVES OR ANY VALVE CONNECTING NEW WORK TO THE EXISTING CITY WATER SYSTEM.
14. SEWER, WATER AND UTILITY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
15. WATER, STORM DRAIN & SANITARY SEWER SEPARATION/PROTECTION SHALL BE PER MAG STANDARD DETAIL 404 WITH CITY APPROVAL. THE CITY CONSIDERS STORM DRAINS TO BE "SEWER" WHEN CROSSING WATER LINES. THE CITY CONSIDERS STORM DRAINS TO BE "POTABLE WATER" WHEN CROSSING SANITARY SEWER LINES.
16. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT FOREIGN MATERIAL FROM ENTERING THE PIPE WHILE IT IS BEING STORED.
17. DURING INSTALLATION AND AT ALL TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE IN THE TRENCH SHALL BE CLOSED BY A WATER-TIGHT PLUG OR OTHER MEANS APPROVED BY THE CITY OF TEMPE ENGINEERING INSPECTOR. IF IN THE OPINION OF THE CITY OF TEMPE ENGINEERING INSPECTOR THE PIPE CONTAINS DIRT THAT WILL NOT BE REMOVED DURING THE FLUSHING OPERATION, THE INTERIOR OF THE PIPE SHALL BE CLEANED AND SWABBED, AS NECESSARY, WITH A .005 TO .010 PERCENT CHLORINE SOLUTION.
18. AFTER PRESSURE TESTING AND BEFORE PLACING IN SERVICE, ALL WATER LINES SHALL BE DISINFECTED AND TESTED FOR WATER QUALITY IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS SECTION IF THE WATERLINE FAILS THE CHLORINE RESIDUAL TEST OR FAILS TO MEET THE WATER QUALITY TEST MORE THAN THREE (3) TIMES, THE CITY OF TEMPE ENGINEERING INSPECTOR RESERVES THE RIGHT TO REQUIRE THE INSTALLED WATERLINE TO BE CLEANED BY PIGGING THE LINE, IN ACCORDANCE WITH STANDARD PROCEDURES, AT NO COST TO THE CITY.

CITY OF TEMPE PAVING PLAN NOTES:

1. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE COMPLETED.
2. THE MAXIMUM STAKE INTERVAL FOR GRADES OF 0.2% OR LESS SHALL BE 25' FOR CONCRETE WORK AND 50' FOR ASPHALT ROADWAY SECTION, EXCEPT ON HORIZONTAL OR VERTICAL CURVES WHERE A MAXIMUM STAKE INTERVAL OF 20' FOR CONCRETE WORK SHALL BE REQUIRED. ALL CURB RETURNS SHALL BE STAKED AT THE P.C., P.T. AND THE MIDPOINT OF THE RETURN. NO GRADE STAKE INTERVAL SHALL EXCEED 50'.
3. GUTTERS WILL BE WATER TESTED IN THE PRESENCE OF THE CITY ENGINEER, OR DESIGNEE, TO INSURE PROPER DRAINAGE, PRIOR TO FINAL APPROVAL BY THE ENGINEERING DIVISION.
4. EXACT POINT OF MATCHING, TERMINATION AND OVERLAY, IF NECESSARY, MAY BE DETERMINED IN THE FIELD BY THE ENGINEERING DIVISION.
5. UNDERGROUND STREET LIGHT AND TRAFFIC SIGNAL CIRCUITS SHALL BE INSTALLED AS PART OF THE OFFSITE IMPROVEMENTS. NEW FOUNDATIONS FOR TRAFFIC SIGNAL POLES SHALL BE POURED FAR ENOUGH IN ADVANCE TO ALLOW SUFFICIENT TIME FOR CONCRETE CURING AND FOR SCHEDULING THE RELOCATION OF THE EXISTING TRAFFIC SIGNALS.
6. ADDRESS OVERLAY REQUIREMENTS WHERE OPEN CUTTING IS PERMITTED. FINISHED PAVEMENT SURFACE MATERIALS SUCH AS RUBBERIZED ASPHALT SHALL BE MATCHED IN FIELD.
7. PAVING IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.



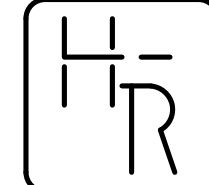
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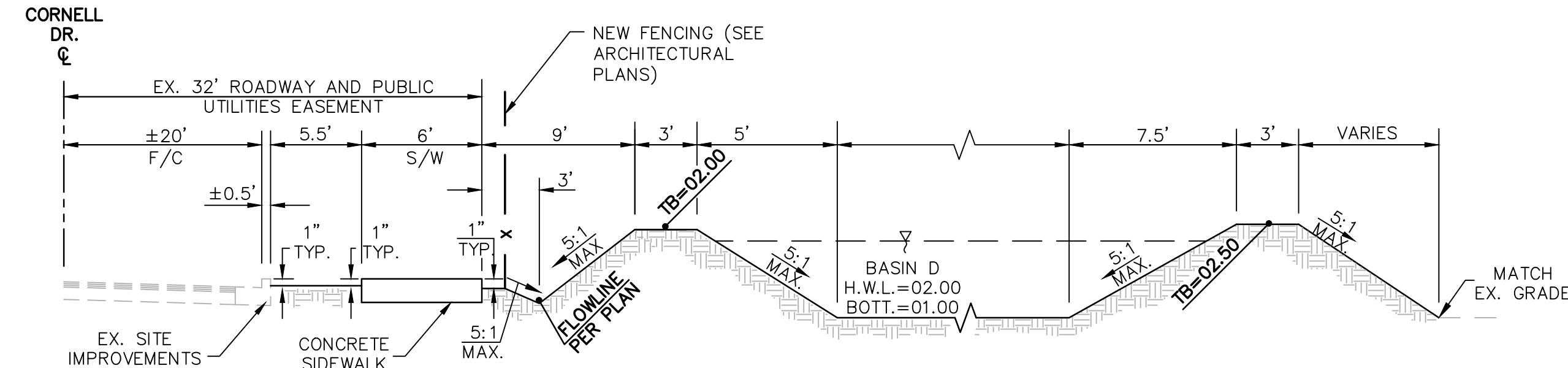
NOTES SHEET

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-3
4TH CITY SUBMITTAL SET			
	3	40	
DATE: 12-06-19			

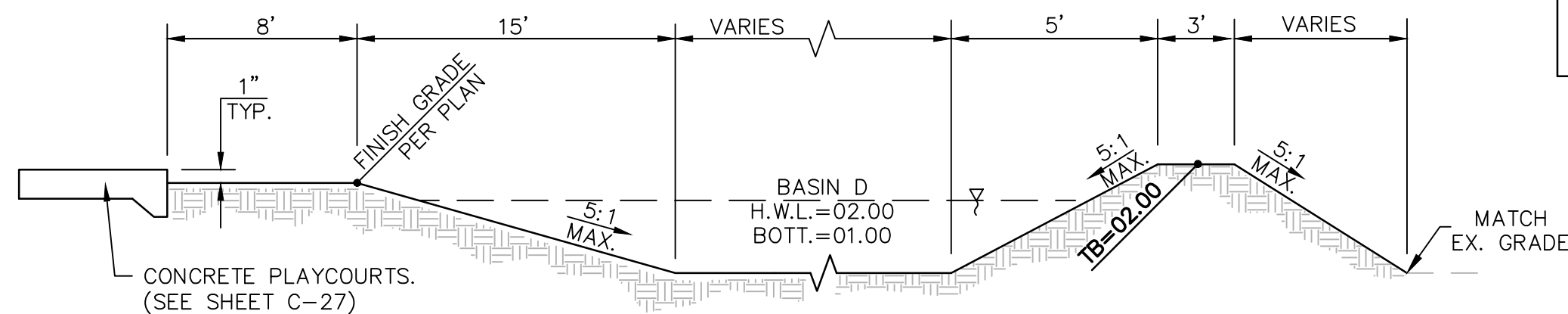


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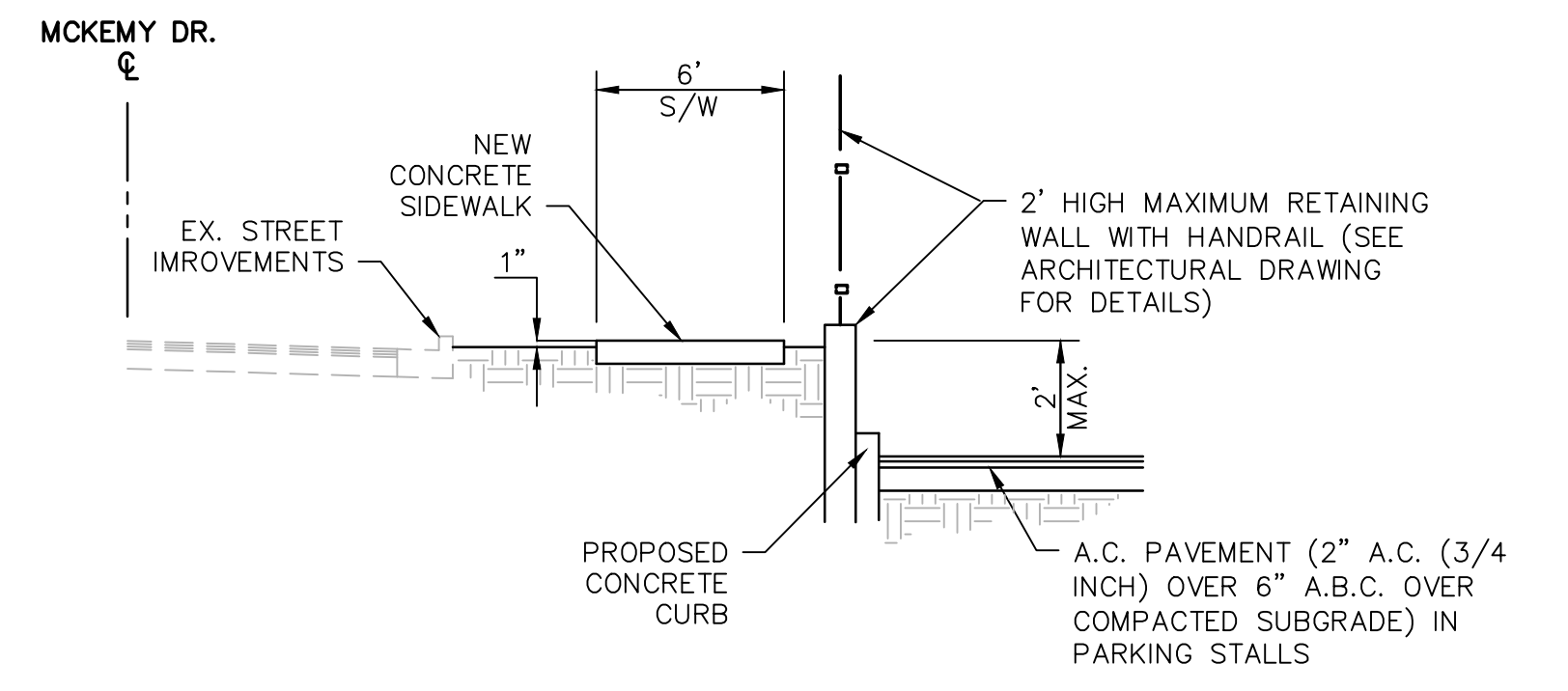
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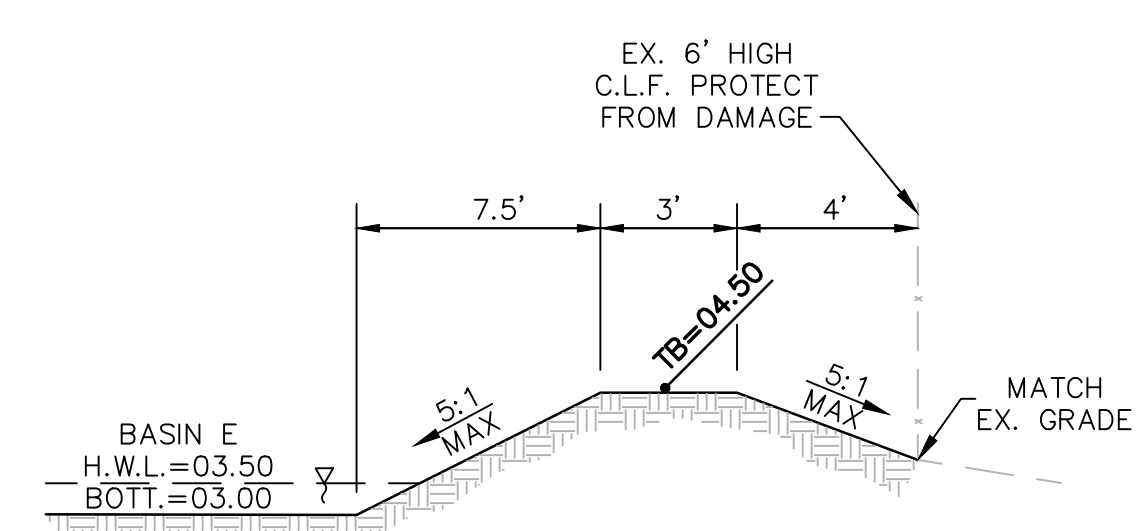
SECTION A-A (SHEET C-11)
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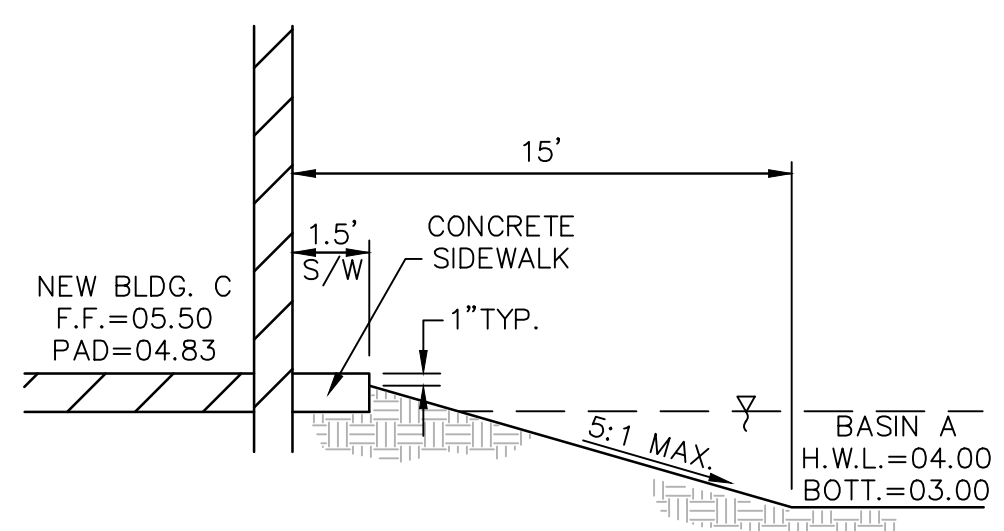
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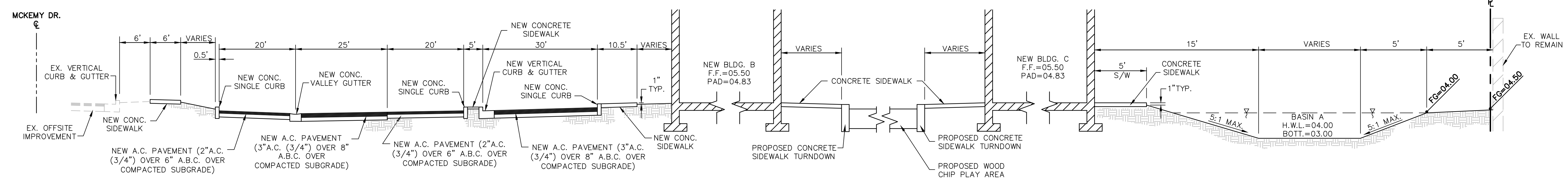
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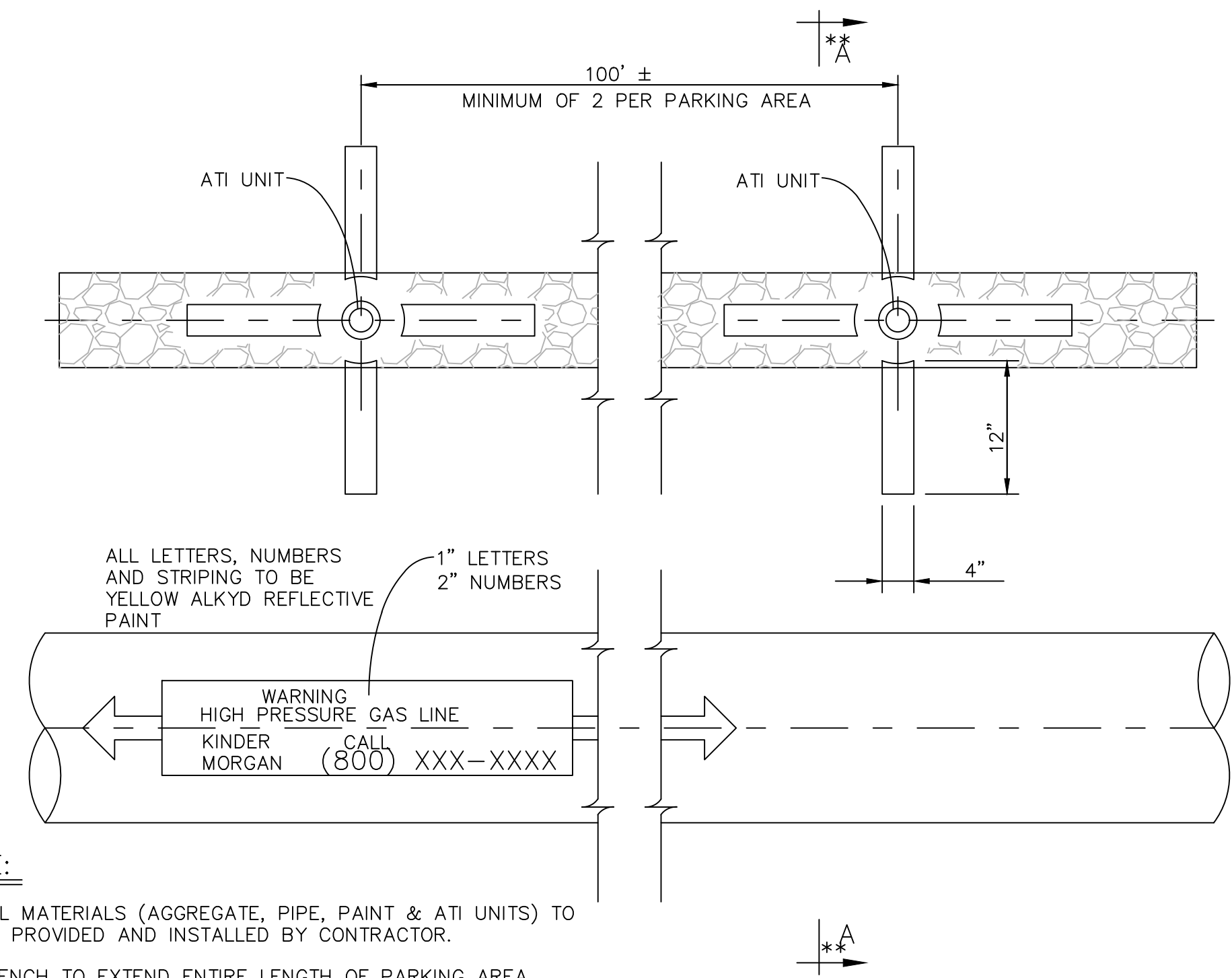
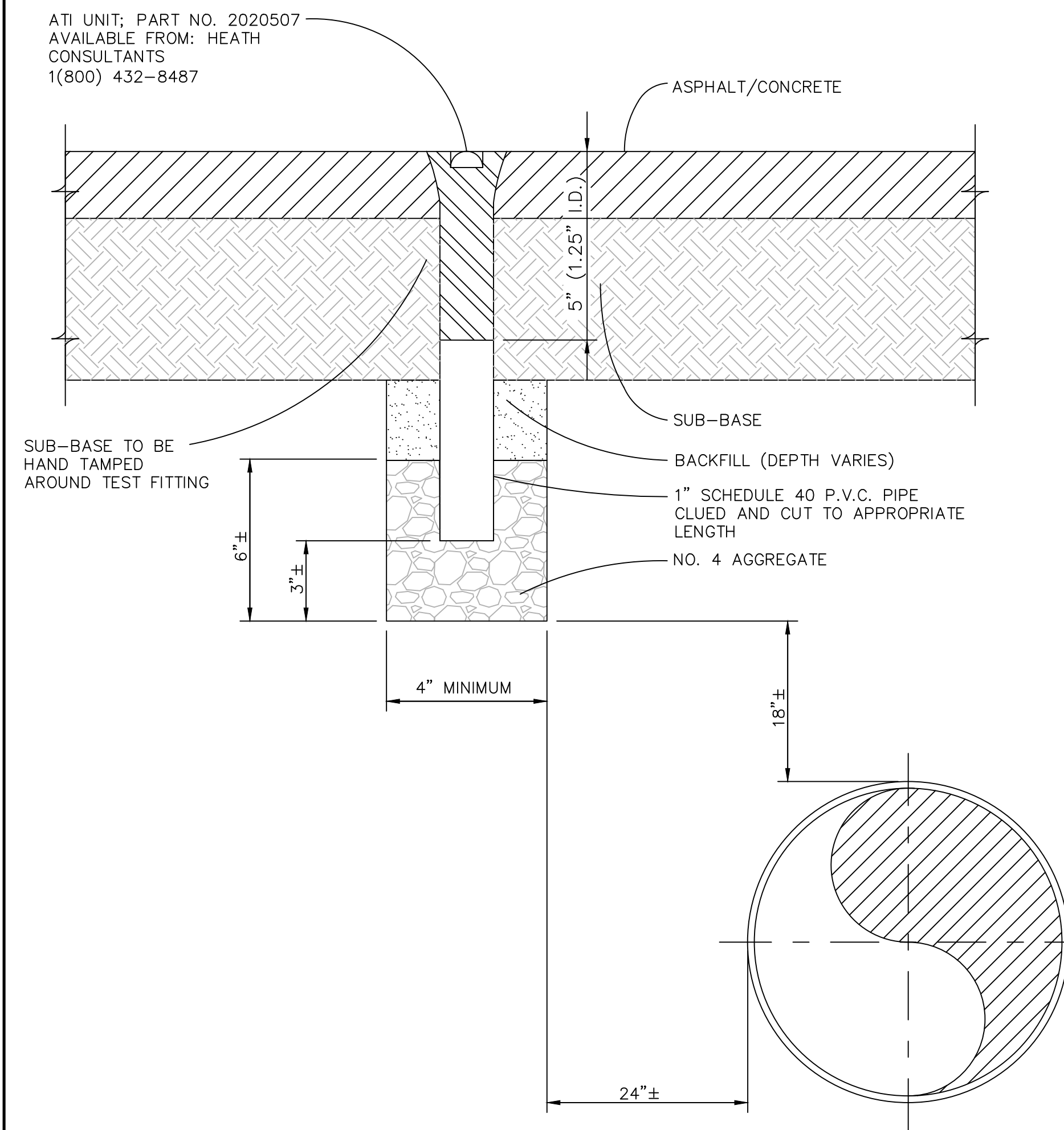
SECTION C-C (SHEET C-13)
NOT TO SCALE



SECTION D-D (SHEET C-15)
NOT TO SCALE



SECTION E-E (SHEETS C-14 AND C-15)
NOT TO SCALE



NOTE:
- ALL MATERIALS (AGGREGATE, PIPE, PAINT & ATI UNITS) TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- TRENCH TO EXTEND ENTIRE LENGTH OF PARKING AREA.

**GAS DETECTION UNIT FOR PIPELINES
LOCATED UNDER ASPHALT OR
CONCRETE PARKING AREAS**
NOT TO SCALE

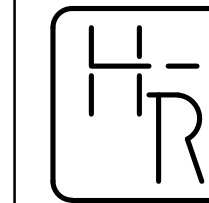
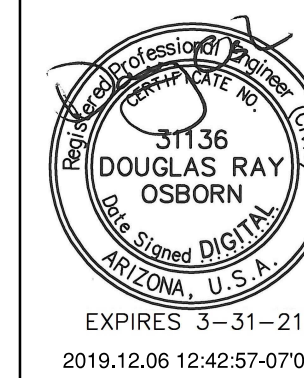
CROSS-SECTIONS SHEET			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-4
4TH CITY SUBMITTAL SET	4	40	
DATE: 12-06-19			



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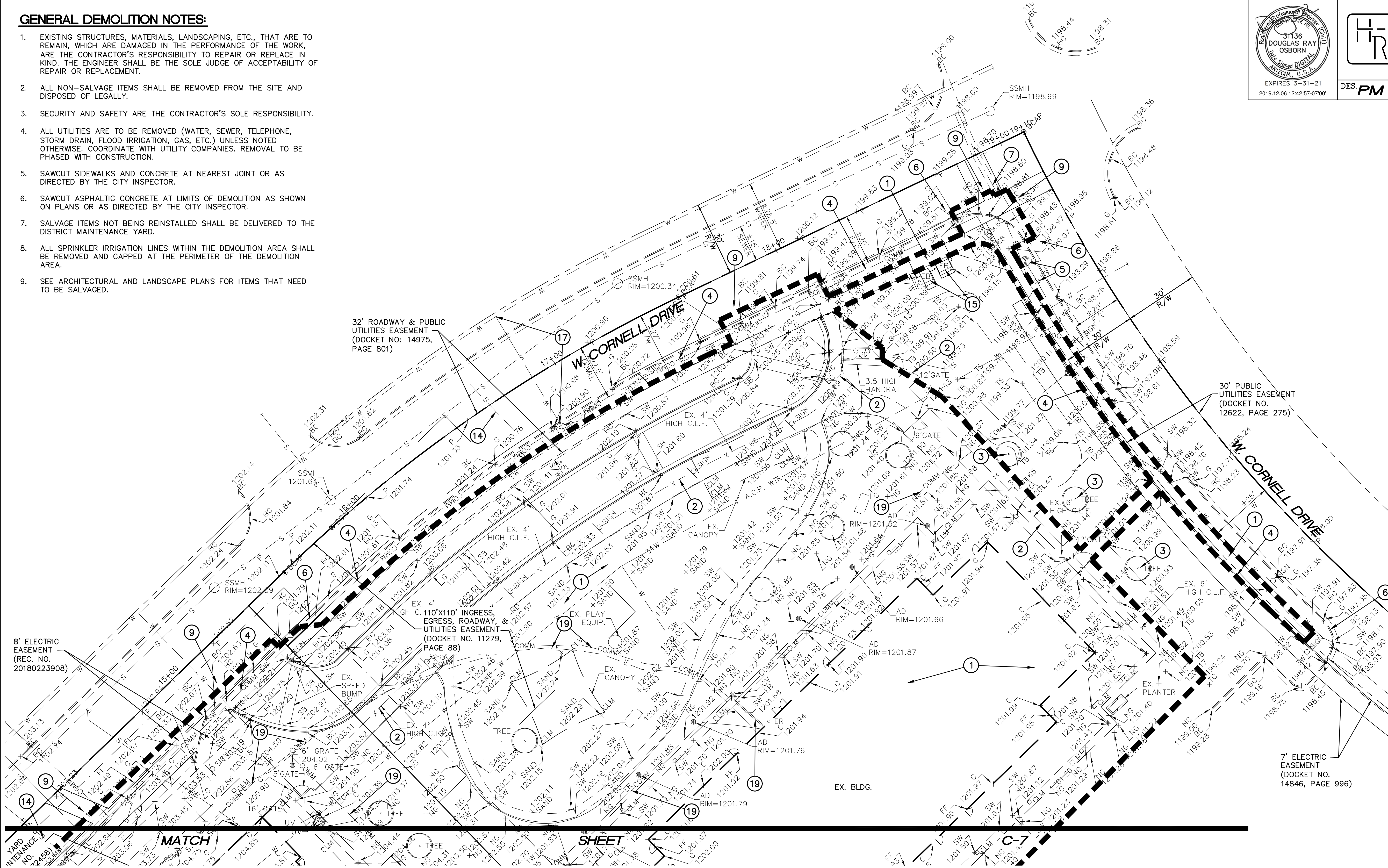
GENERAL DEMOLITION NOTES:

- EXISTING STRUCTURES, MATERIALS, LANDSCAPING, ETC., THAT ARE TO REMAIN, WHICH ARE DAMAGED IN THE PERFORMANCE OF THE WORK, ARE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE IN KIND. THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTABILITY OF REPAIR OR REPLACEMENT.
- ALL NON-SALVAGE ITEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- SECURITY AND SAFETY ARE THE CONTRACTOR'S SOLE RESPONSIBILITY.
- ALL UTILITIES ARE TO BE REMOVED (WATER, SEWER, TELEPHONE, STORM DRAIN, FLOOD IRRIGATION, GAS, ETC.) UNLESS NOTED OTHERWISE. COORDINATE WITH UTILITY COMPANIES. REMOVAL TO BE PHASED WITH CONSTRUCTION.
- SAWCUT SIDEWALKS AND CONCRETE AT NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR.
- SAWCUT ASPHALTIC CONCRETE AT LIMITS OF DEMOLITION AS SHOWN ON PLANS OR AS DIRECTED BY THE CITY INSPECTOR.
- SALVAGE ITEMS NOT BEING REINSTALLED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE YARD.
- ALL SPRINKLER IRRIGATION LINES WITHIN THE DEMOLITION AREA SHALL BE REMOVED AND CAPPED AT THE PERIMETER OF THE DEMOLITION AREA.
- SEE ARCHITECTURAL AND LANDSCAPE PLANS FOR ITEMS THAT NEED TO BE SALVAGED.



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SPECIFIC DEMOLITION NOTES:

- WITHIN DEMOLITION AREA, REMOVE AND LEGALLY DISPOSE OF ALL BUILDINGS, CONCRETE, ASPHALT, A.B.C., CONCRETE SIDEWALKS, WALLS, CURBS, TREES, FENCES AND ANY IMPROVEMENTS EXCEPT ITEMS NOTED TO REMAIN AND BE PROTECTED OR TO BE REMOVED AND SALVAGED. ALL UTILITIES ARE TO BE REMOVED, UNLESS NOTED OTHERWISE.
- REMOVE EXISTING PERIMETER CHAIN LINK FENCE, GATES, POSTS AND CONCRETE FOOTINGS.
- EXISTING TREE TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING COMMUNICATION LINE AND/OR PEDESTAL TO REMAIN. PROTECT FROM DAMAGE.
- EXISTING WATER LINE AND FIRE HYDRANT TO REMAIN. PROTECT FROM DAMAGE.
- PROTECT EXISTING CONCRETE CURB FROM DAMAGE.
- PROTECT EXISTING CONCRETE PAVEMENT/SIDEWALK/VALLEY GUTTER APRON FROM DAMAGE.
- EXISTING BLOCK WALL OR CHAIN LINK FENCE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- PROTECT EXISTING A.C. PAVEMENT FROM DAMAGE.
- EXISTING GAS LINE TO REMAIN AND BE PROTECTED. THE GAS LINE IS A KINDER MORGAN OPERATED FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS EASEMENT WITH KINDER MORGAN. KINDER MORGAN GUIDELINES FOR CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES ARE ON SHEET C-3. PRIOR TO CONSTRUCTION HEAVY MACHINERY CROSSING POINTS NEED TO BE REVIEWED WITH KINDER MORGAN. POT-HOLING AND STRESS CALCULATIONS SHALL BE DONE BEFORE MACHINERY CROSSES THE EASEMENT.
- REMOVE EXISTING CONCRETE FLOOD IRRIGATION LINE, PASTURE VALVE AND JUNCTION BOXES.
- REMOVE EXISTING BASKETBALL HOOPS, POSTS, FOOTINGS, ETC.
- OWNER WILL SALVAGE ANY USEABLE PLAY EQUIPMENT OR CANOPIES PRIOR TO DEMOLITION. CONTRACTOR TO REMOVE ANY REMAINING PLAY STRUCTURES, CANOPY FOOTINGS, ETC.
- EXISTING SEWER SERVICE TO BE ABANDONED PER CITY OF TEMPE REQUIREMENTS. REMOVE SEWER SERVICE TO MAIN SEWER LINE AND CAP AT THE MAIN.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. PROTECT FROM DAMAGE.
- REMOVE EXISTING SHORT STACKABLE BLOCK WALL.
- EXISTING WATER METER AND SERVICE TO BE SALVAGED AND REMOVE PER CITY OF TEMPE REQUIREMENTS. REMOVE SERVICE TO CORPORATION STOP AND INSTALL CAP

- NOT USED.
- REMOVE EXISTING ELECTRICAL OR COMMUNICATION LINES AND EQUIPMENT. REMOVE EXISTING LIGHT POLE, BASE AND CONDUIT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH THE APPROPRIATE UTILITY COMPANIES.

NOTE:
SEE LEGEND ON SHEET C-2

PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-5
4TH CITY SUBMITTAL SET	5	40	
DATE: 12-06-19			

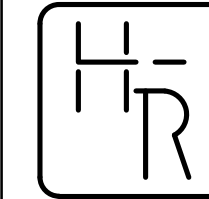


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DES. PM	DRN. ANM	CKD. DRO	JOB NO. 1902-05
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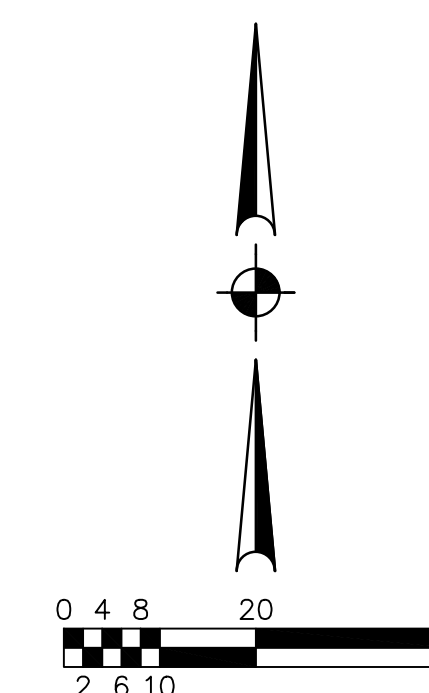
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6. SAWCUT ASPHALTIC CONCRETE AT LIMITS OF DEMOLITION AS SHOWN ON PLANS OR AS DIRECTED BY THE CITY INSPECTOR.
7. SALVAGE ITEMS NOT BEING REINSTALLED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE YARD.
8. ALL SPRINKLER IRRIGATION LINES WITHIN THE DEMOLITION AREA SHALL BE REMOVED AND CAPPED AT THE PERIMETER OF THE DEMOLITION AREA.
9. SEE ARCHITECTURAL AND LANDSCAPE PLANS FOR ITEMS THAT NEED TO BE SALVAGED.

SPECIFIC DEMOLITION NOTES:

- 1 WITHIN DEMOLITION AREA, REMOVE AND LEGALLY DISPOSE OF ALL BUILDINGS, CONCRETE, ASPHALT, A.B.C., CONCRETE SIDEWALKS, WALLS CURBS, TREES, FENCES' AND ANY IMPROVEMENTS EXCEPT ITEMS NOTED TO REMAIN AND BE PROTECTED OR TO BE REMOVED AND SALVAGED. ALL UTILITIES ARE TO BE REMOVED, UNLESS NOTED OTHERWISE.
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- 7 PROTECT EXISTING CONCRETE PAVEMENT/SIDEWALK/VALLEY GUTTER APRON FROM DAMAGE.
- 8 EXISTING BLOCK WALL OR CHAIN LINK FENCE TO REMAIN AND BE PROTECTED FROM DAMAGE.
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- 10 EXISTING GAS LINE TO REMAIN AND BE PROTECTED. THE GAS LINE IS KINDER MORGAN OPERATED FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS EASEMENT WITH KINDER MORGAN. KINDER MORGAN GUIDELINES FOR CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES ARE ON SHEET C-3. PRIOR TO CONSTRUCTION HEAVY MACHINERY CROSSING POINTS NEED TO BE REVIEWED WITH KINDER MORGAN. POT-HOLING AND STRESS CALCULATIONS SHALL BE DONE BEFORE MACHINERY CROSSES THE EASEMENT.
- 11 REMOVE EXISTING CONCRETE FLOOD IRRIGATION LINE, PASTURE VALVE AND JUNCTION BOXES.
- 12 REMOVE EXISTING BASKETBALL HOOPS, POSTS, FOOTINGS, ETC.
- 13 OWNER WILL SALVAGE ANY USEABLE PLAY EQUIPMENT OR CANOPIES PRIOR TO DEMOLITION. CONTRACTOR TO REMOVE ANY REMAINING PLAY STRUCTURES, CANOPY FOOTINGS, ETC.
- 14 EXISTING SEWER SERVICE TO BE ABANDONED PER CITY OF TEMPE REQUIREMENTS. REMOVE SEWER SERVICE TO MAIN SEWER LINE AND CAP AT THE MAIN.
- 15 EXISTING ELECTRICAL EQUIPMENT TO REMAIN. PROTECT FROM DAMAGE.
- 16 REMOVE EXISTING SHORT STACKABLE BLOCK WALL.
- 17 EXISTING WATER METER AND SERVICE TO BE SALVAGED AND REMOVE PER CITY OF TEMPE REQUIREMENTS. REMOVE SERVICE TO CORPORATION STOP AND INSTALL CAP
- 18 NOT USED.
- 19 REMOVE EXISTING ELECTRICAL OR COMMUNICATION LINES AND EQUIPMENT. REMOVE EXISTING LIGHT POLE, BASE AND CONDUIT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH THE APPROPRIATE UTILITY COMPANIES.

NOTE:
SEE LEGEND ON SHEET C-2



SCALE: 1"=20

PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL

DRAWING STATUS		SHEET	OF	C-6
4TH CITY SUBMITTAL SET				
DATE: 12-06-19		6	40	

Call at least two full working days before you begin excavation.

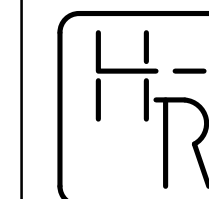
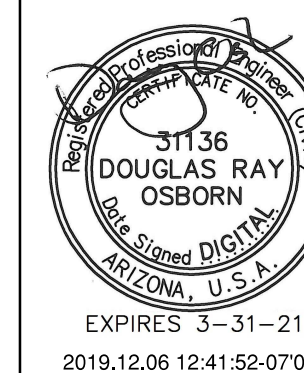
ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5321)
In Maricopa County: (602) 263-1100

727 W. CORNELL DRIVE

CS190962 EN190105

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HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

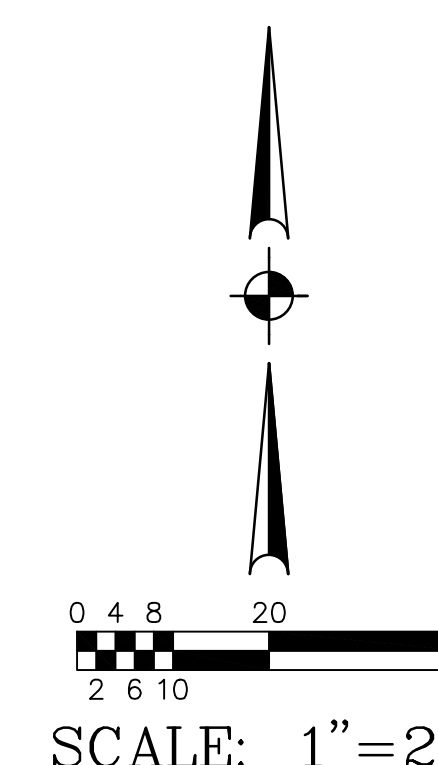
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NOTE:
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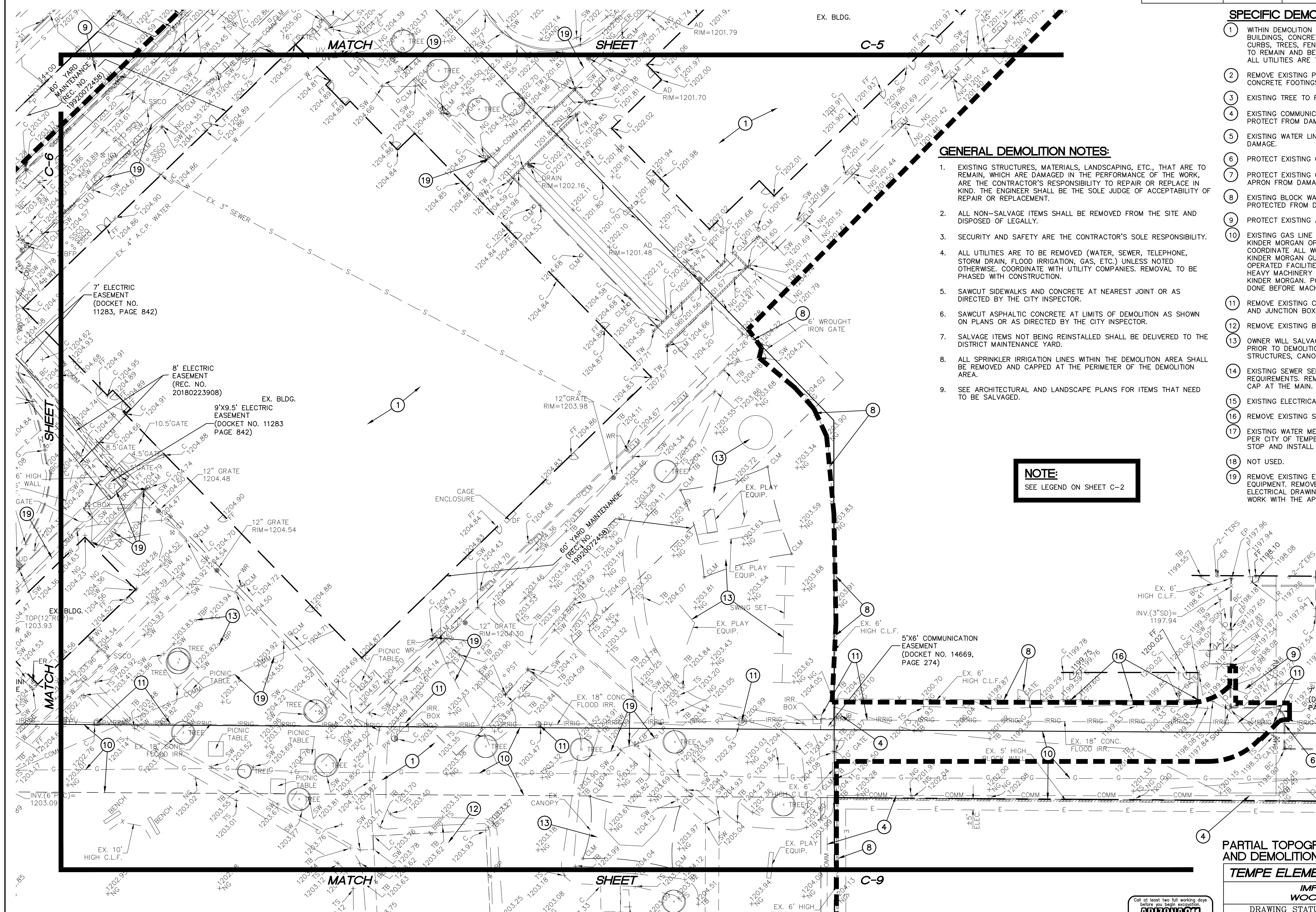
PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF
4TH CITY SUBMITTAL SET	7	40
DATE:	12-06-19	

C-7

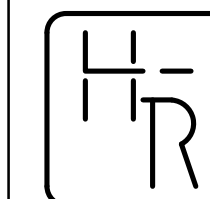


727 W. CORNELL DRIVE

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PHOENIX, ARIZONA 85044 (480)496-0244

DES. <i>PM</i>	DRN. <i>ANM</i>	CKD. <i>DRO</i>	JOB NO. <i>1902-05</i>
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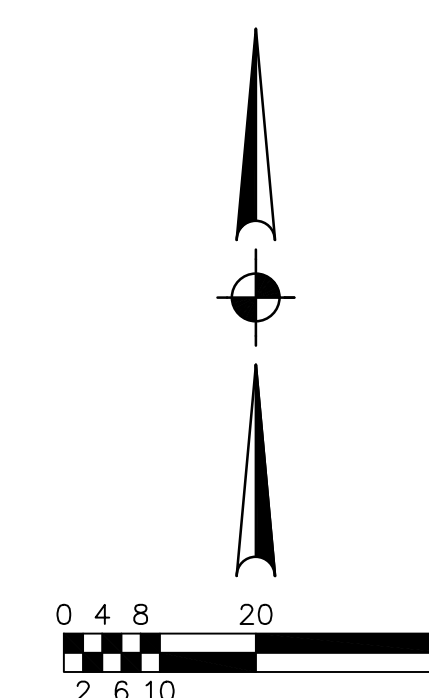
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PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

<p align="center">IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL</p>			<p align="center">C-8</p>
<p align="center">DRAWING STATUS</p>		<p align="center">SHEET</p>	
<p align="center">4TH CITY SUBMITTAL SET</p>		<p align="center">OF</p>	
<p align="center">DATE: 12-06-19</p>		<p align="center">8 40</p>	

NOTE:
SEE LEGEND ON SHEET C-2



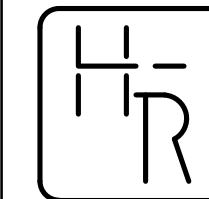
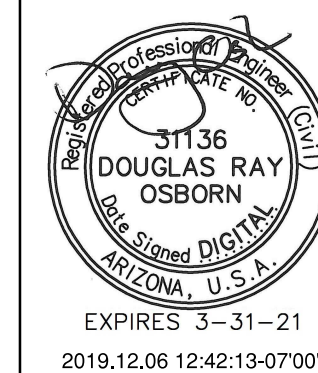
SCALE: 1"=20'



727 W. CORNELL DRIVE

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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

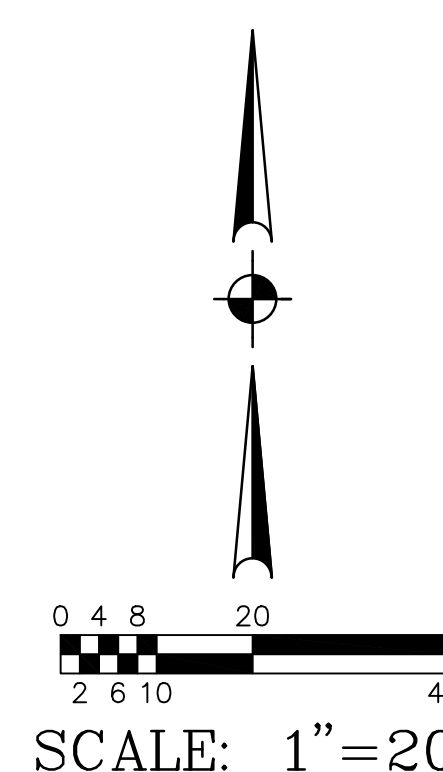
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NOTE:
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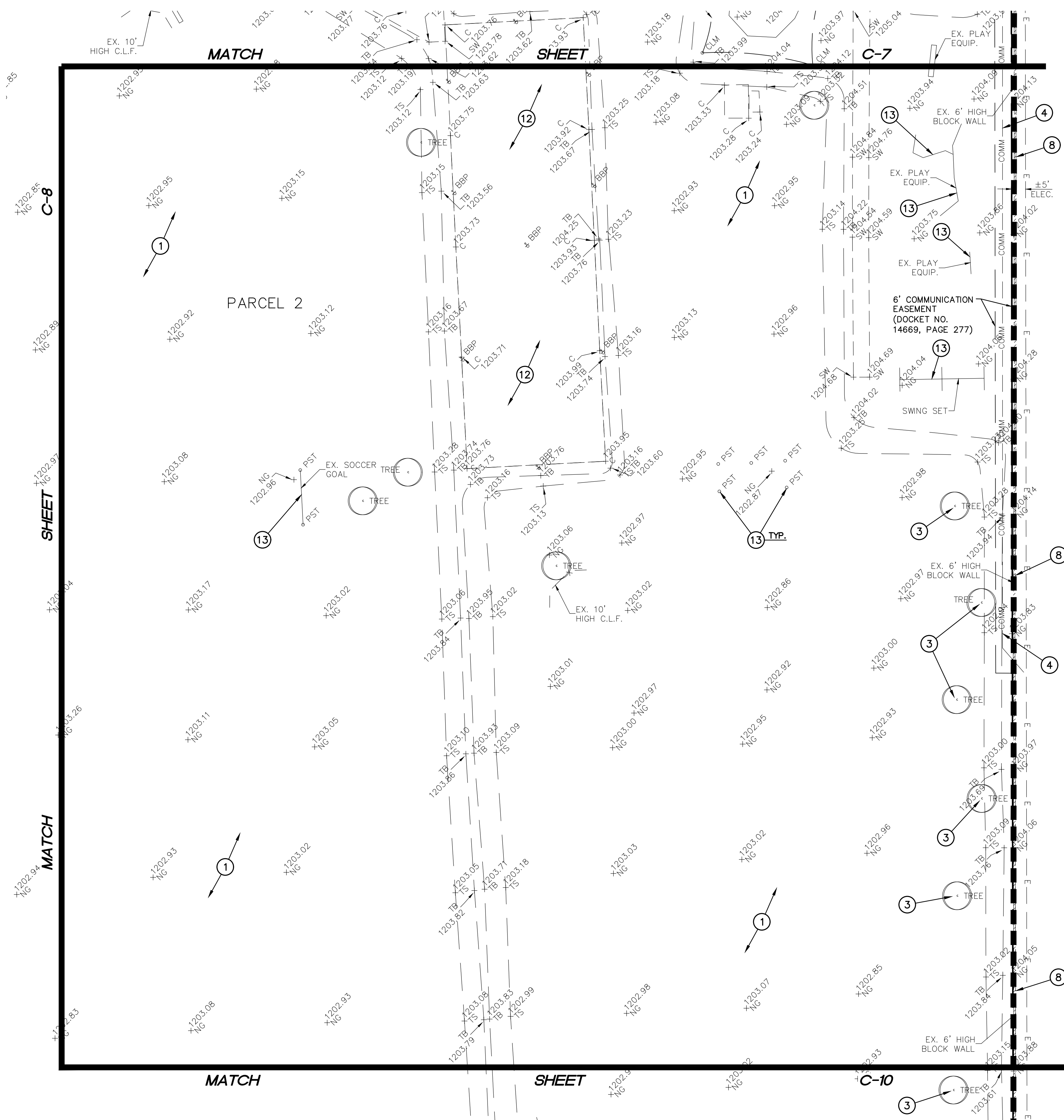


**PARTIAL TOPOGRAPHIC SURVEY
AND DEMOLITION PLAN**

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

**IMPROVEMENT PLANS FOR
WOOD ELEMENTARY SCHOOL**

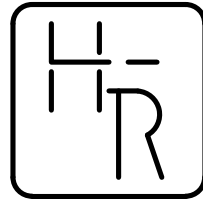
DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET			
	9	40	C-9
DATE:	12-06-19		



727 W. CORNELL DRIVE

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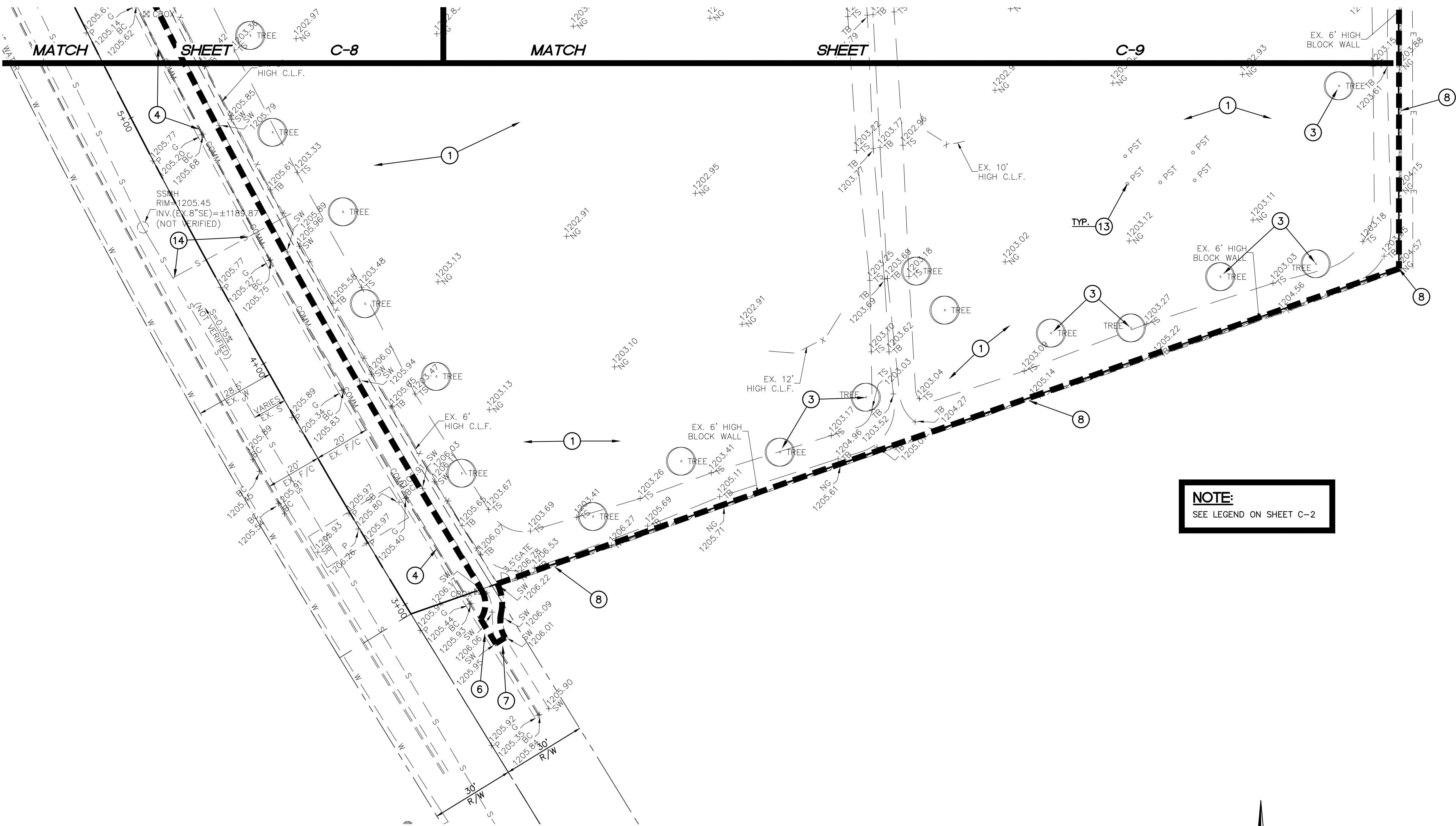
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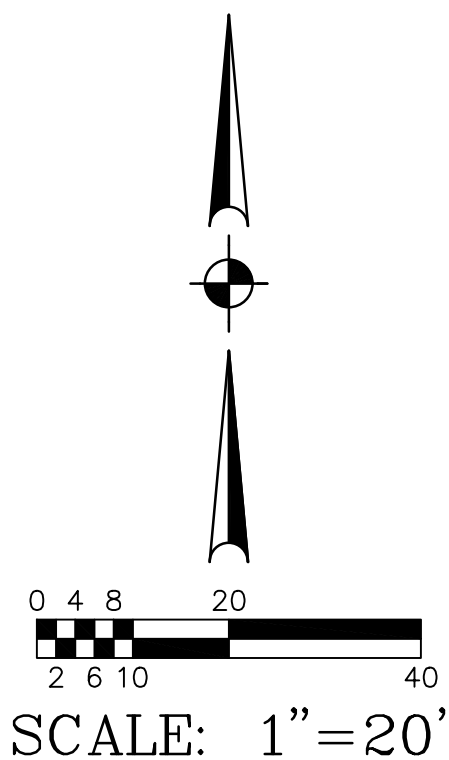
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- EXISTING GAS LINE TO REMAIN AND BE PROTECTED. THE GAS LINE IS A KINDER MORGAN OPERATED FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS EASEMENT WITH KINDER MORGAN. KINDER MORGAN GUIDELINES FOR CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES ARE ON SHEET C-3. PRIOR TO CONSTRUCTION HEAVY MACHINERY CROSSING POINTS NEED TO BE REVIEWED WITH KINDER MORGAN. POT-HOLING AND STRESS CALCULATIONS SHALL BE DONE BEFORE MACHINERY CROSSES THE EASEMENT.
- REMOVE EXISTING CONCRETE FLOOD IRRIGATION LINE, PASTURE VALVE AND JUNCTION BOXES.
- REMOVE EXISTING BASKETBALL HOOPS, POSTS, FOOTINGS, ETC.
- OWNER WILL SALVAGE ANY USEABLE PLAY EQUIPMENT OR CANOPIES PRIOR TO DEMOLITION. CONTRACTOR TO REMOVE ANY REMAINING PLAY STRUCTURES, CANOPY FOOTINGS, ETC.
- EXISTING SEWER SERVICE TO BE ABANDONED PER CITY OF TEMPE REQUIREMENTS. REMOVE SEWER SERVICE TO MAIN SEWER LINE AND CAP AT THE MAIN.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. PROTECT FROM DAMAGE.
- REMOVE EXISTING SHORT STACKABLE BLOCK WALL.
- EXISTING WATER METER AND SERVICE TO BE SALVAGED AND REMOVE PER CITY OF TEMPE REQUIREMENTS. REMOVE SERVICE TO CORPORATION STOP AND INSTALL CAP
- NOT USED.
- REMOVE EXISTING ELECTRICAL OR COMMUNICATION LINES AND EQUIPMENT. REMOVE EXISTING LIGHT POLE, BASE AND CONDUIT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH THE APPROPRIATE UTILITY COMPANIES.



NOTE:
SEE LEGEND ON SHEET C-2



**PARTIAL TOPOGRAPHIC SURVEY
AND DEMOLITION PLAN**

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

**IMPROVEMENT PLANS FOR
WOOD ELEMENTARY SCHOOL**

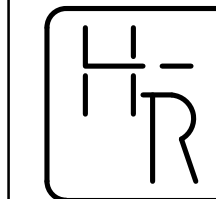
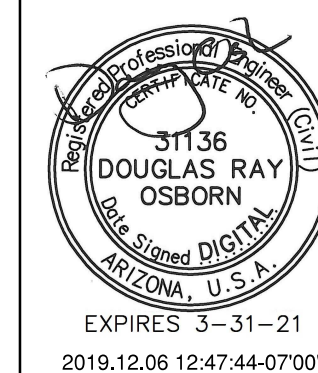
DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET			
	10	40	C-10
DATE:	12-06-19		

727 W. CORNELL DRIVE

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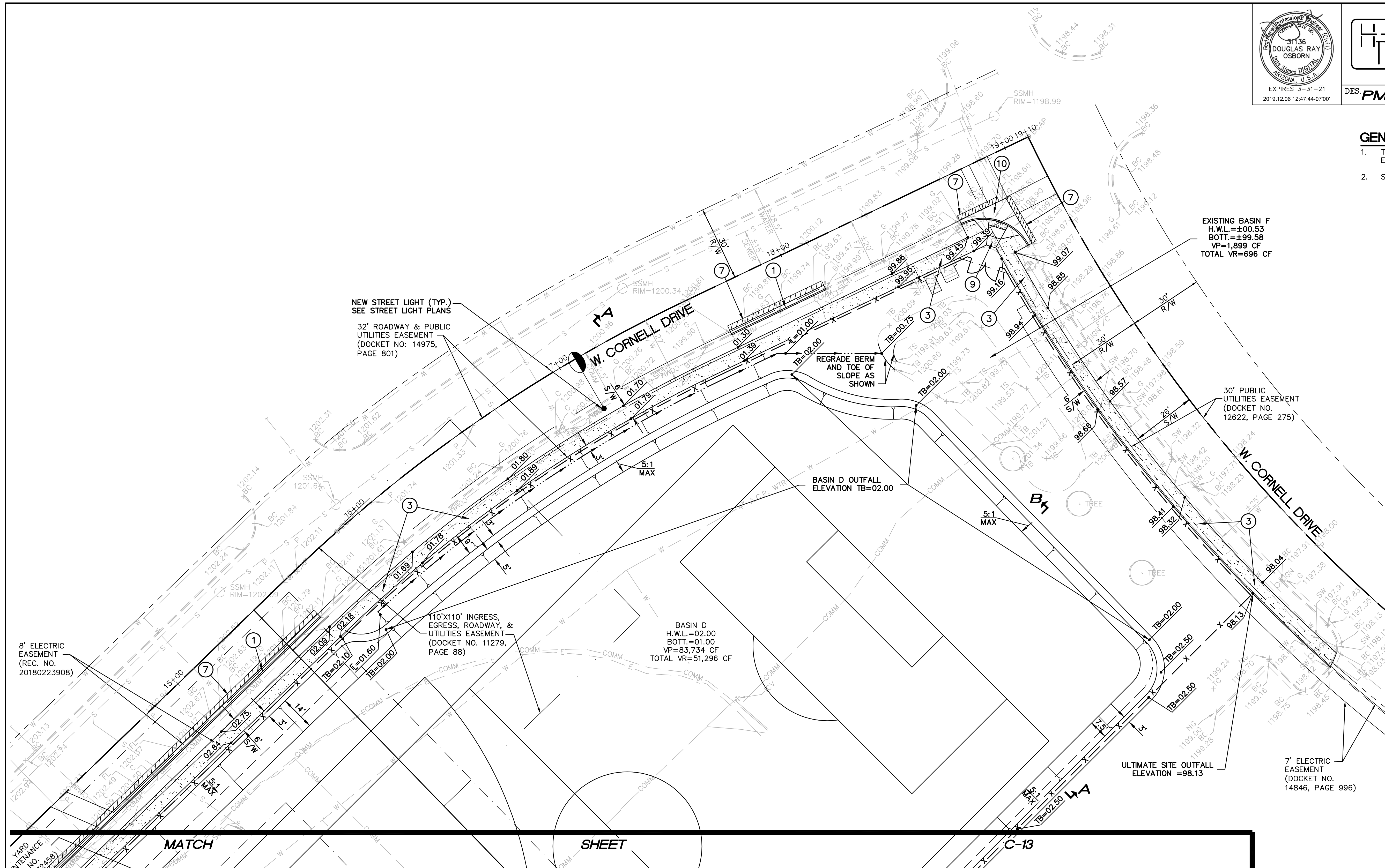


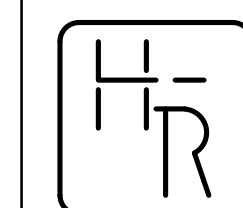
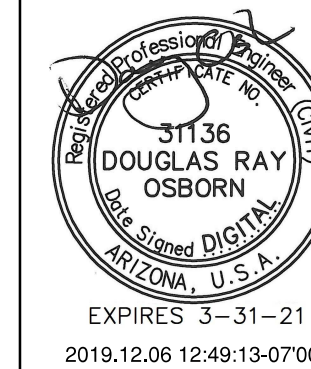
HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

GENERAL NOTES:

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- SEE ARCHITECTURAL PLANS FOR NEW FENCING AND GATE DETAILS.





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DES. PM	DRN. ANM	CKD DRO	JOB NO. 1902-05
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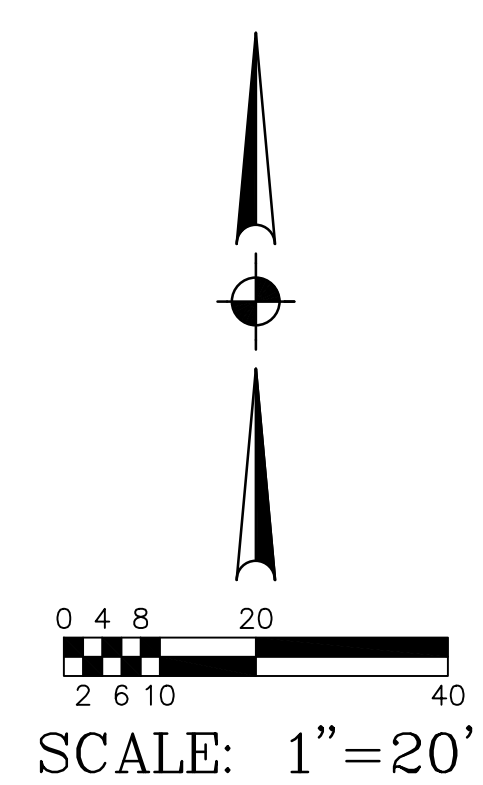
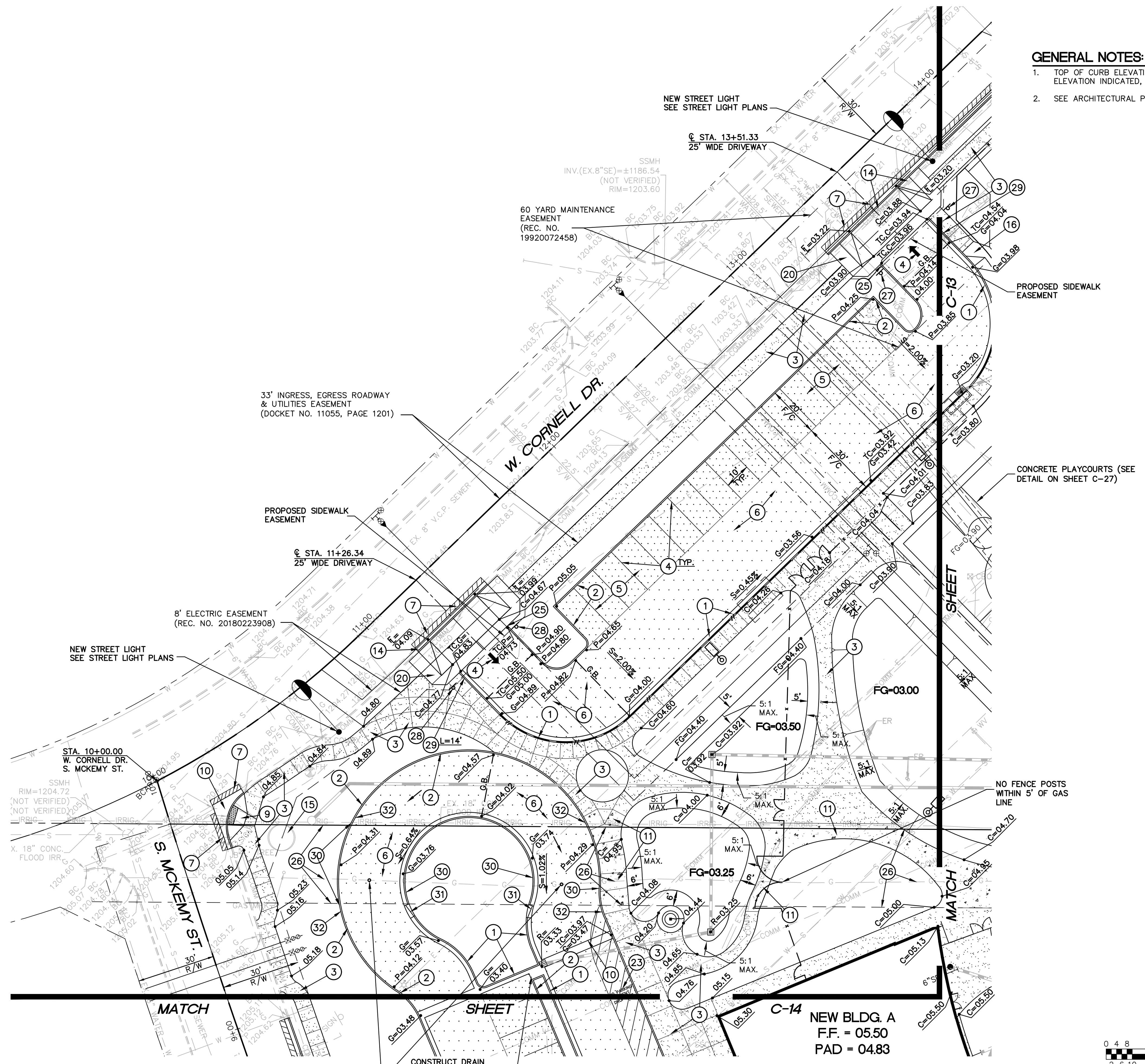
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5. INSTALL ASPHALTIC CONCRETE PAVEMENT (2" A.C. (3/4 INCH) OVER 6" A.B.C. OVER COMPACTED SUBGRADE) IN PARKING STALLS.
6. INSTALL ASPHALTIC CONCRETE PAVEMENT (3" A.C. (3/4 INCH) OVER 8" A.B.C. OVER COMPACTED SUBGRADE) IN DRIVEWAY AREAS.
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9. CONSTRUCT SIDEWALK RAMP, TYPE 'A' CITY OF TEMPE STANDARD DETAIL NO. T-324).
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13. INSTALL HANDICAP PARKING SIGN (CITY OF TEMPE STANDARD DETAIL NO. T-360).
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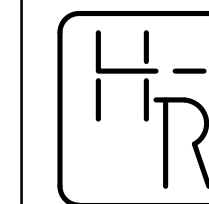
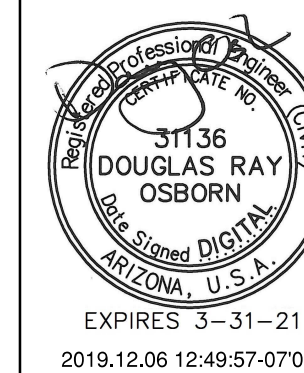
GRADING AND DRAINAGE PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET			
	12	40	C-12
DATE:	12-06-19		

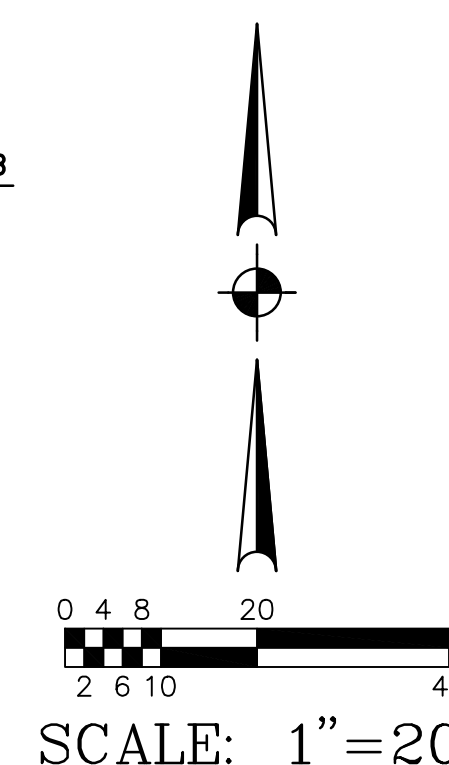
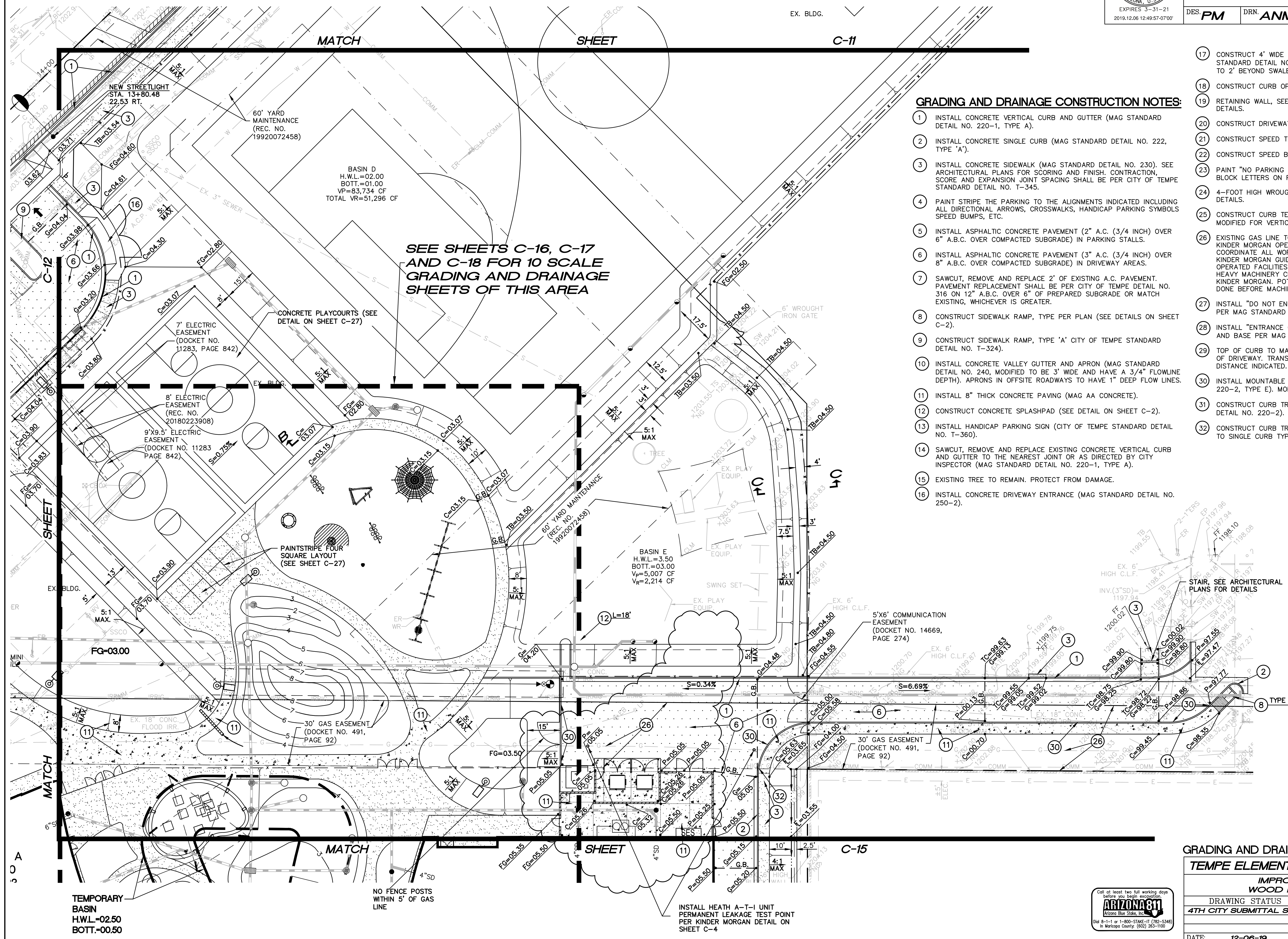


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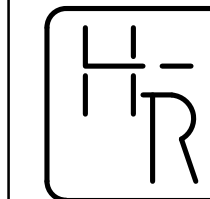
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DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**



GRADING AND DRAINAGE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET	13	40	C-13
DATE:	12-06-19		





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DES. <i>PM</i>	DRN. <i>ANM</i>	CKD. <i>DRO</i>	JOB NO. <i>1902-05</i>
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GRADING AND DRAINAGE PLAN

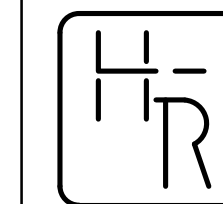
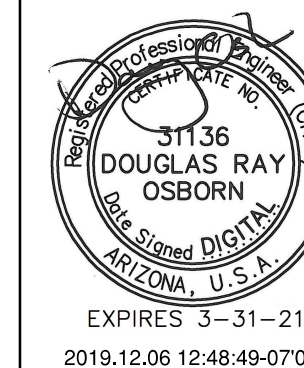
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

<p align="center">IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL</p>		
<p align="center">DRAWING STATUS</p> <p align="center">4TH CITY SUBMITTAL SET</p>	<p align="center">SHEET</p>	<p align="center">OF</p>
<p align="center">DATE: 12-06-19</p>	<p>14</p>	<p>40</p>
<p align="right">C-14</p>		

727 W. CORNELL DRIVE

DS190962 EN190105

190205GR5 DWG



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PHOENIX, ARIZONA 85044 (480)496-0244

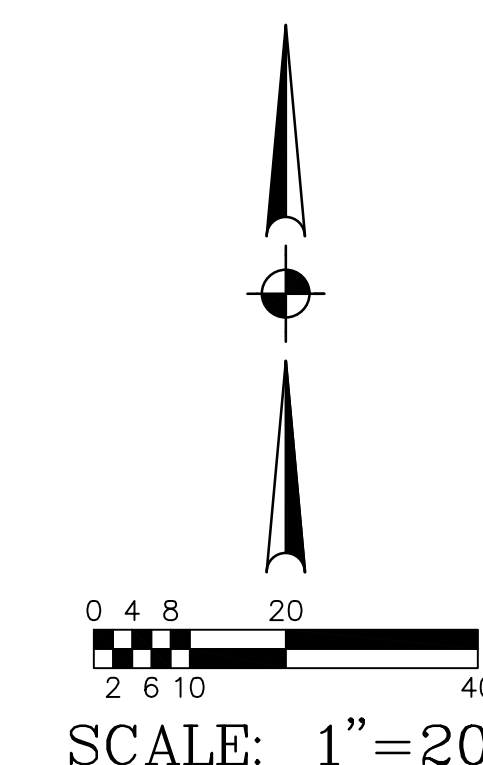
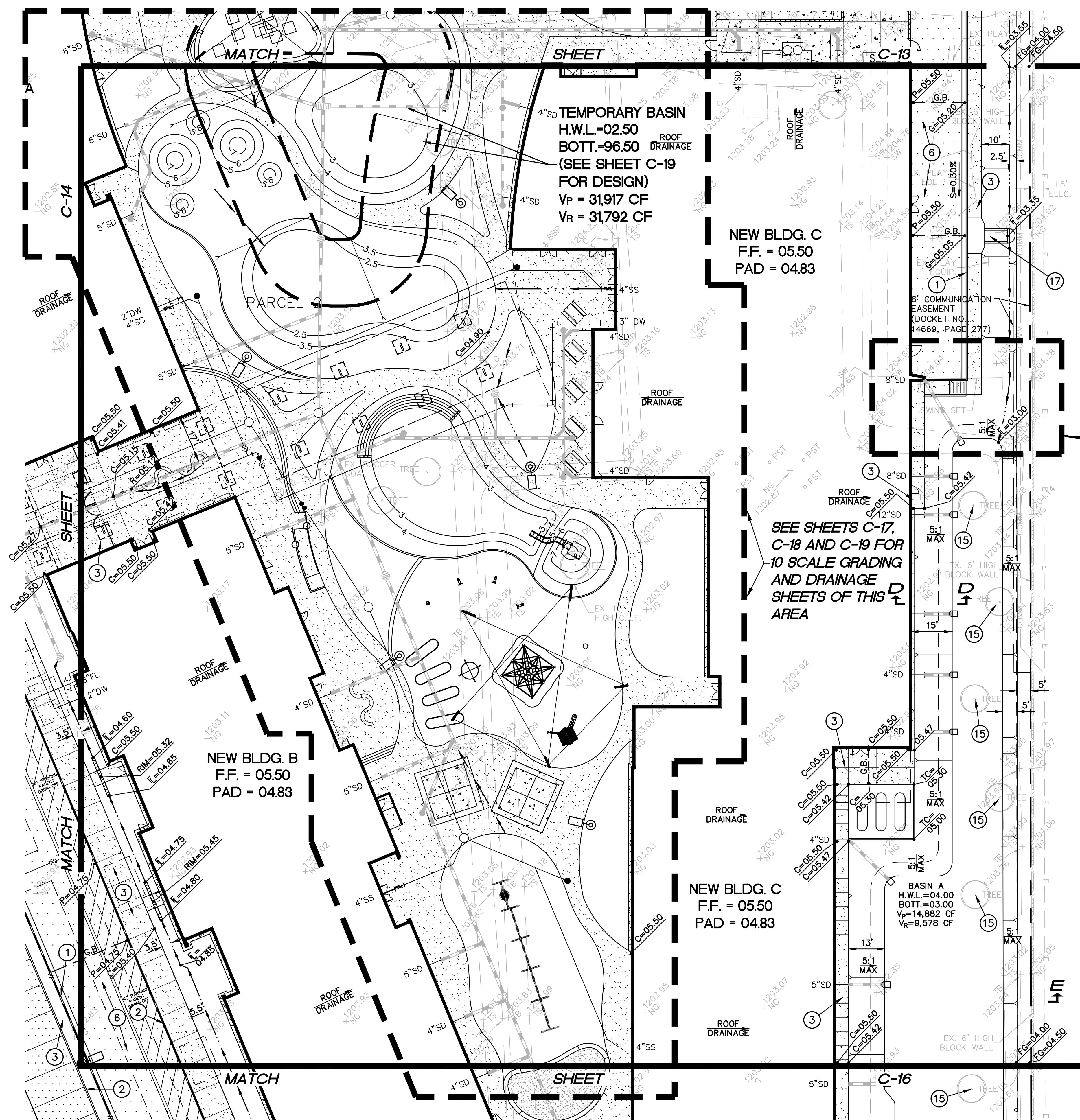
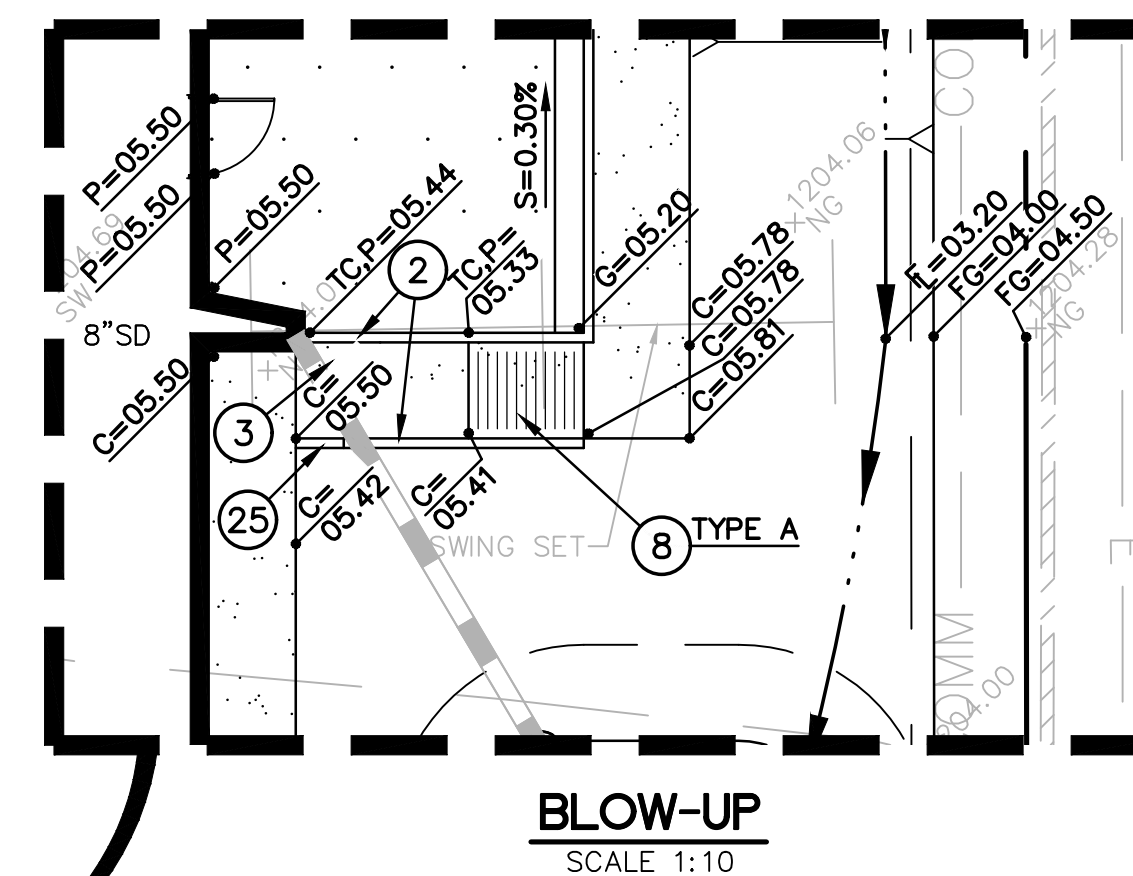
DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

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GRADING AND DRAINAGE PLAN

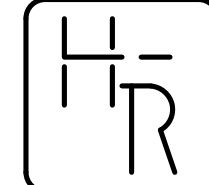
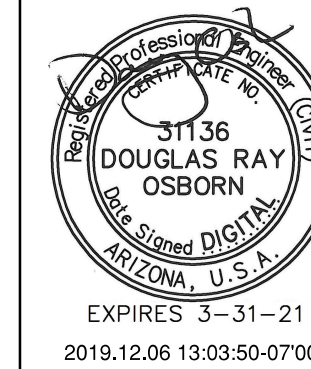
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET	15	40	C-15
DATE:	12-06-19		



727 W. CORNELL DRIVE
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DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

GRADING AND DRAINAGE CONSTRUCTION NOTES:

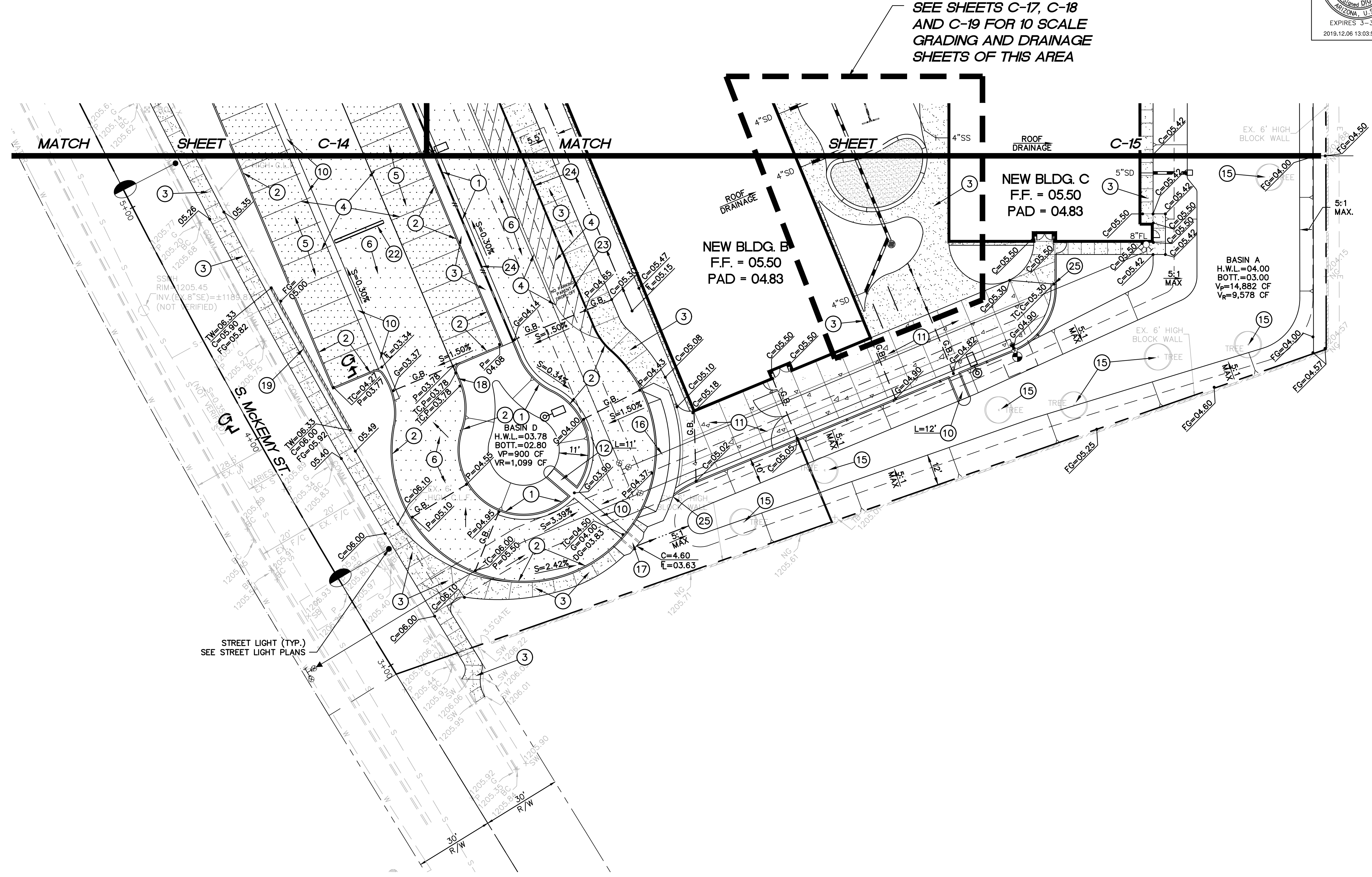
1. INSTALL CONCRETE VERTICAL CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-1, TYPE A).
2. INSTALL CONCRETE SINGLE CURB (MAG STANDARD DETAIL NO. 222, TYPE 'A').
3. INSTALL CONCRETE SIDEWALK (MAG STANDARD DETAIL NO. 230). SEE ARCHITECTURAL PLANS FOR SCORING AND FINISH. CONTRACTION, SCORE AND EXPANSION JOINT SPACING SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-345.
4. PAINT STRIPE THE PARKING TO THE ALIGNMENTS INDICATED INCLUDING ALL DIRECTIONAL ARROWS, CROSSWALKS, HANDICAP PARKING SYMBOLS SPEED BUMPS, ETC.
5. INSTALL ASPHALTIC CONCRETE PAVEMENT (2" A.C. (3/4 INCH) OVER 6" A.B.C. OVER COMPACTED SUBGRADE) IN PARKING STALLS.
6. INSTALL ASPHALTIC CONCRETE PAVEMENT (3" A.C. (3/4 INCH) OVER 8" A.B.C. OVER COMPACTED SUBGRADE) IN DRIVEWAY AREAS.
7. SAWCUT, REMOVE AND REPLACE 2' OF EXISTING A.C. PAVEMENT. PAVEMENT REPLACEMENT SHALL BE PER CITY OF TEMPE DETAIL NO. 316 ON 12" A.B.C. OVER 6" OF PREPARED SUBGRADE OR MATCH EXISTING, WHICHEVER IS GREATER.
8. CONSTRUCT SIDEWALK RAMP, TYPE PER PLAN (SEE DETAILS ON SHEET C-2).
9. CONSTRUCT SIDEWALK RAMP, TYPE 'A' CITY OF TEMPE STANDARD DETAIL NO. T-324).
10. INSTALL CONCRETE VALLEY GUTTER AND APRON (MAG STANDARD DETAIL NO. 240, MODIFIED TO BE 3' WIDE AND HAVE A 3/4" FLOWLINE DEPTH). APRONS IN OFFSITE ROADWAYS TO HAVE 1" DEEP FLOW LINES.
11. INSTALL 8" THICK CONCRETE PAVING (MAG AA CONCRETE).
12. CONSTRUCT CONCRETE SPLASHPAD (SEE DETAIL ON SHEET C-2).
13. INSTALL HANDICAP PARKING SIGN (CITY OF TEMPE STANDARD DETAIL NO. T-360).
14. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE A).
15. EXISTING TREE TO REMAIN. PROTECT FROM DAMAGE.
16. INSTALL CONCRETE DRIVEWAY ENTRANCE (MAG STANDARD DETAIL NO. 250-2).
17. CONSTRUCT 4' WIDE SIDEWALK SCUPPER WITH SAFETY RAIL (MAG STANDARD DETAIL NO. 145 AND 206-1, -2, -3). EXTEND SPILLWAY TO 2' BEYOND SWALE.
18. CONSTRUCT CURB OPENING (SEE DETAIL ON SHEET C-2).
19. RETAINING WALL, SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS.
20. CONSTRUCT DRIVEWAY ENTRANCE (CITY OF TEMPE DETAIL NO. T-320).
21. CONSTRUCT SPEED TABLE (SEE DETAIL ON SHEET C-2).
22. CONSTRUCT SPEED BUMP (SEE DETAIL ON SHEET C-2).
23. PAINT "NO PARKING - PARENT DROP OFF" IN ONE FOOT (1') HIGH BLOCK LETTERS ON PAVEMENT.
24. 4-FOOT HIGH WROUGHT IRON FENCE. SEE ARCHITECTURAL PLANS FOR DETAILS.
25. CONSTRUCT CURB TERMINATION (MAG STANDARD DETAIL NO. 222, MODIFIED FOR VERTICAL CURB AND GUTTER WHERE SHOWN).
26. EXISTING GAS LINE TO REMAIN AND BE PROTECTED. THE GAS LINE IS A KINDER MORGAN OPERATED FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS EASEMENT WITH KINDER MORGAN. KINDER MORGAN GUIDELINES FOR CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES ARE ON SHEET C-3. PRIOR TO CONSTRUCTION HEAVY MACHINERY CROSSING POINTS NEED TO BE REVIEWED WITH KINDER MORGAN. POT-HOLING AND STRESS CALCULATIONS SHALL BE DONE BEFORE MACHINERY CROSSES THE EASEMENT.
27. INSTALL "DO NOT ENTER" SIGN (M.U.T.C.D. R5-1, WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'C').
28. INSTALL "ENTRANCE ONLY" SIGNS (12" WIDE X 18" HIGH) WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'C'.
29. TOP OF CURB TO MATCH GUTTER OR PAVEMENT ELEVATION AT BACK OF DRIVEWAY. TRANSITION TO STANDARD CURB HEIGHT (6") IN DISTANCE INDICATED.
30. INSTALL MOUNTABLE CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-2, TYPE E). MODIFY DETAIL FOR SINGLE CURB WHERE SHOWN.
31. CONSTRUCT CURB TRANSITION TYPE 'E' TO TYPE 'A' (MAG STANDARD DETAIL NO. 220-2).
32. CONSTRUCT CURB TRANSITION (MOUNTABLE CURB TYPE 'E' MODIFIED TO SINGLE CURB TYPE 'A').

GRADING AND DRAINAGE PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL

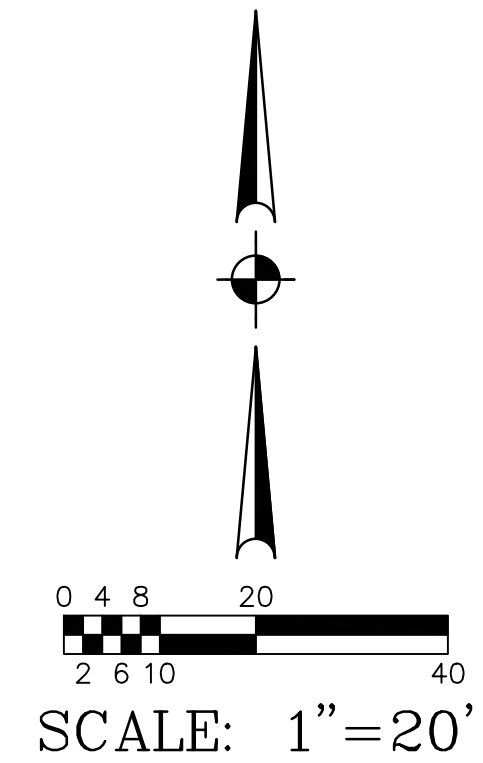
DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET			
	16	40	C-16
DATE:	12-06-19		



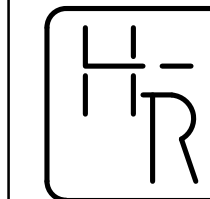
SEE SHEETS C-17, C-18
AND C-19 FOR 10 SCALE
GRADING AND DRAINAGE
SHEETS OF THIS AREA

GENERAL NOTES:

1. TOP OF CURB ELEVATION TO BE 6" ABOVE GUTTER OR PAVEMENT ELEVATION INDICATED, UNLESS NOTED OTHERWISE.
2. SEE ARCHITECTURAL PLANS FOR NEW FENCING AND GATE DETAILS.



727 W. CORNELL DRIVE
DS190362 EN19105
190205067.DWG

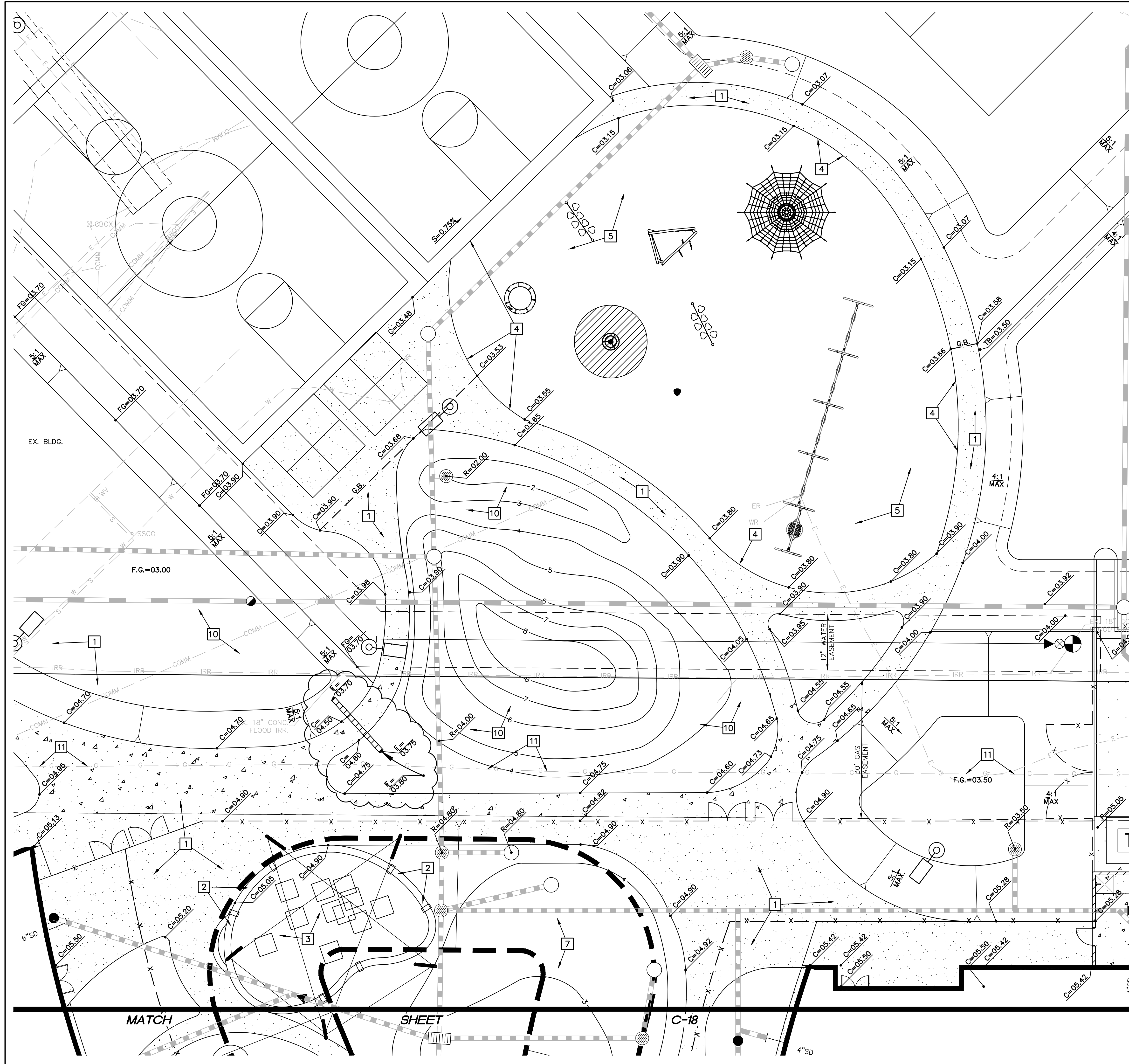


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PHOENIX, ARIZONA 85044 (480)496-0244

DES. PM	DRN. ANM	CKD. DRO	JOB NO. 1902-05
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COURTYARD NOTES:

1. INSTALL CONCRETE SIDEWALK (MAG STANDARD DETAIL NO. 230). SEE ARCHITECTURAL PLANS FOR SCORING AND FINISH. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 10' ON CENTER.
2. SITE WALL (SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS).
3. SANDPLAY AREA. INSTALL 12" CLEAN MORTAR SAND. TOP OF SAND TO BE 2" BELOW TOP OF ADJACENT SIDEWALK (SEE LANDSCAPE AND ARCHITECTURAL DRAWINGS).
4. INSTALL 14" TURNDOWN AT SANDPLAY AND WOOD CHIP AREAS.
5. WOODCHIP PLAY AREA. SUBGRADE 14" BELOW ADJACENT SIDEWALK (SEE LANDSCAPE AND ARCHITECTURAL DRAWINGS).
6. LANDSCAPE CURB (SEE LANDSCAPE DRAWINGS).
7. ARTIFICIAL TURF (SEE LANDSCAPE DRAWINGS).
8. INSTALL 14" HIGH SINGLE CURB (MAG STANDARD DETAIL NO. 222, TYPE B, MODIFIED TO BE 14" HIGH).
9. EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. INSTALL BERM AT DRIPLINE AND WATER DURING CONSTRUCTION.
10. NATURAL GRASS AREA.
11. EXISTING GAS LINE TO REMAIN AND BE PROTECTED. THE GAS LINE IS A KINDER MORGAN OPERATED FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS EASEMENT WITH KINDER MORGAN. KINDER MORGAN GUIDELINES FOR CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES ARE ON SHEET C-3. PRIOR TO CONSTRUCTION HEAVY MACHINERY CROSSING POINTS NEED TO BE REVIEWED WITH KINDER MORGAN. POT-HOLING AND STRESS CALCULATIONS SHALL BE DONE BEFORE MACHINERY CROSSES THE EASEMENT.



GRADING AND DRAINAGE PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF
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4TH CITY SUBMITTAL SET	SHEET	OF
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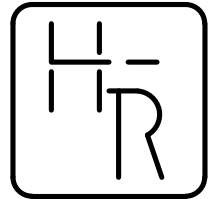
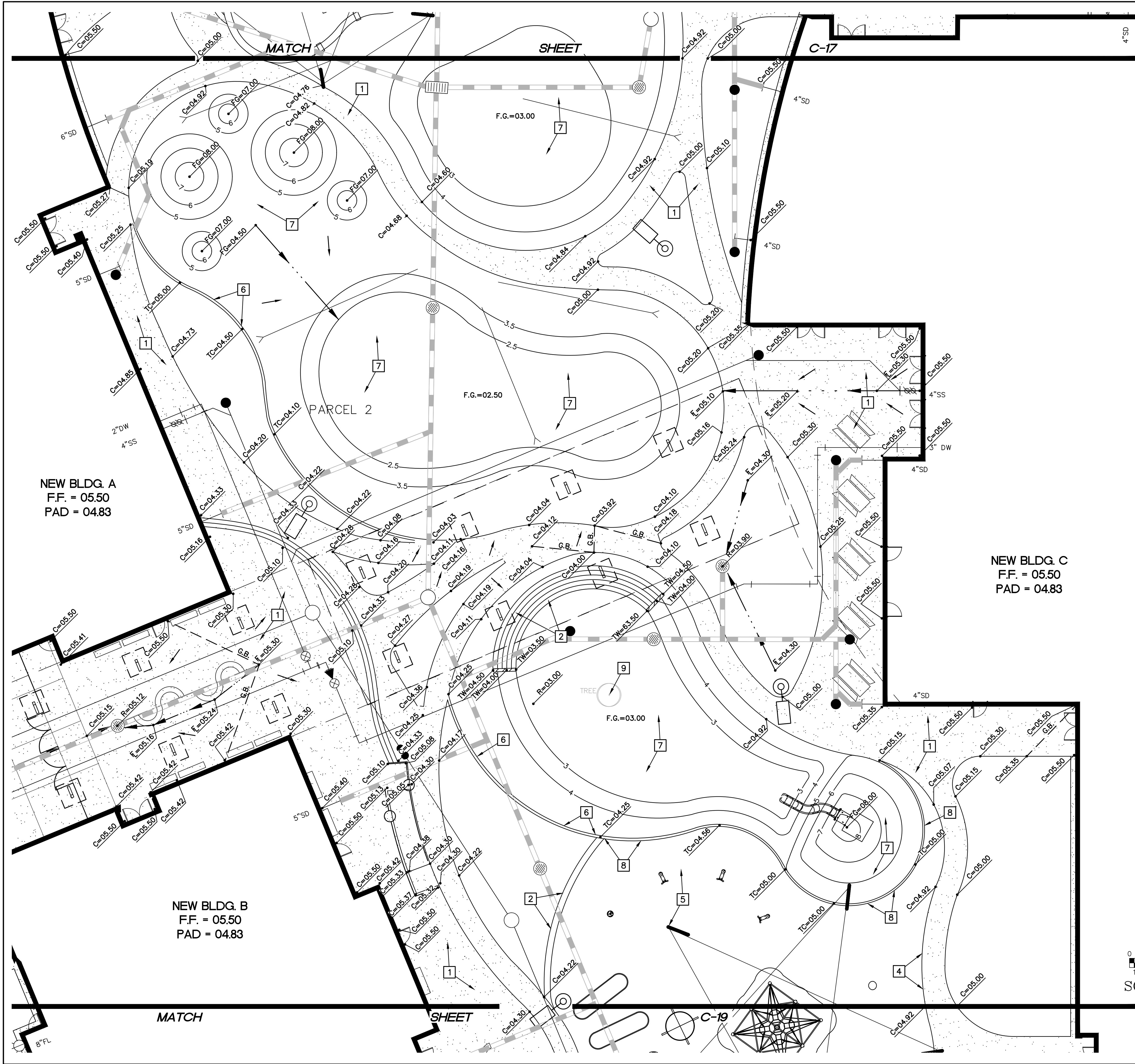
DATE: 12-06-19	17	40
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C-17

727 W. CORNELL DRIVE

DS190962 EN190105

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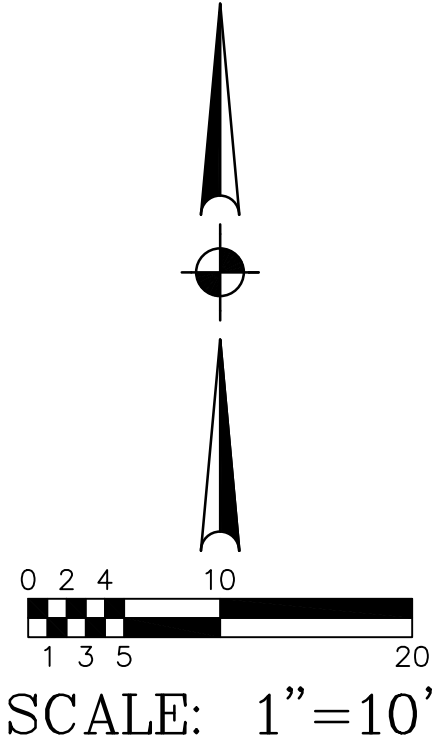


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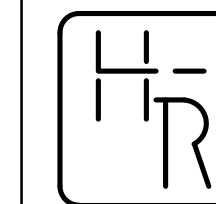
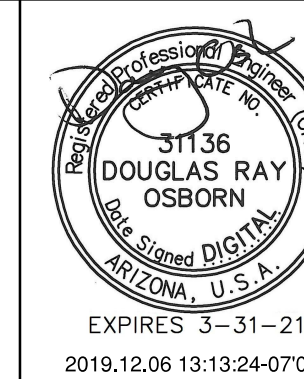
DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

COURTYARD NOTES:

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3. SANDPLAY AREA. INSTALL 12" CLEAN MORTAR SAND. TOP OF SAND TO BE 2" BELOW TOP OF ADJACENT SIDEWALK (SEE LANDSCAPE AND ARCHITECTURAL DRAWINGS).
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GRADING AND DRAINAGE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-18
4TH CITY SUBMITTAL SET	18	40	
DATE:	12-06-19		



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DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

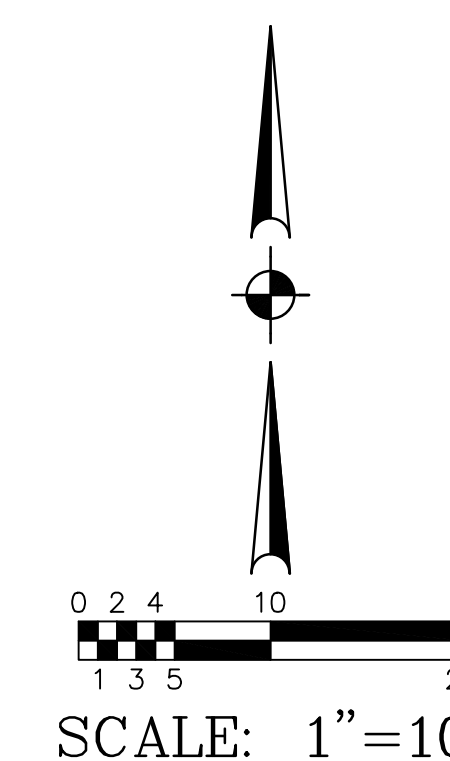
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NEW BLDG. C
F.F. = 05.50
PAD = 04.83

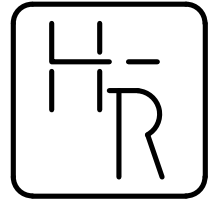
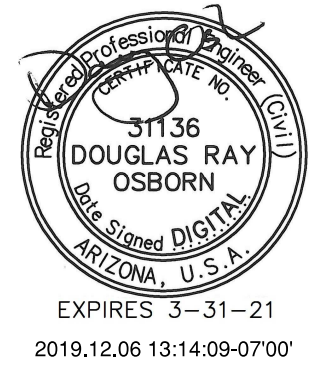
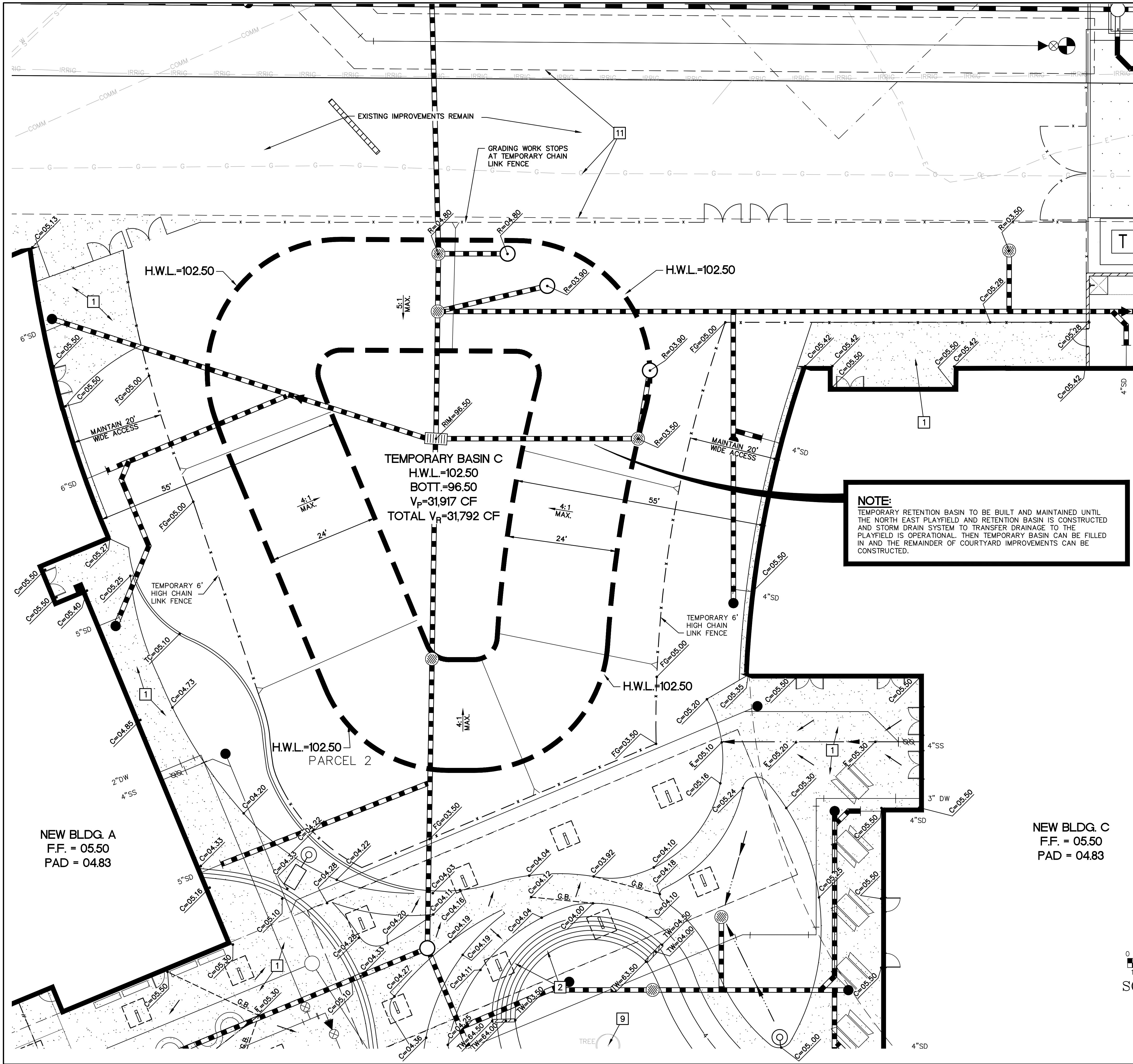
NEW BLDG. C
F.F. = 05.50
PAD = 04.83

NEW BLDG. B
F.F. = 05.50
PAD = 04.83



GRADING AND DRAINAGE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-19
4TH CITY SUBMITTAL SET	19	40	
DATE: 12-06-19			





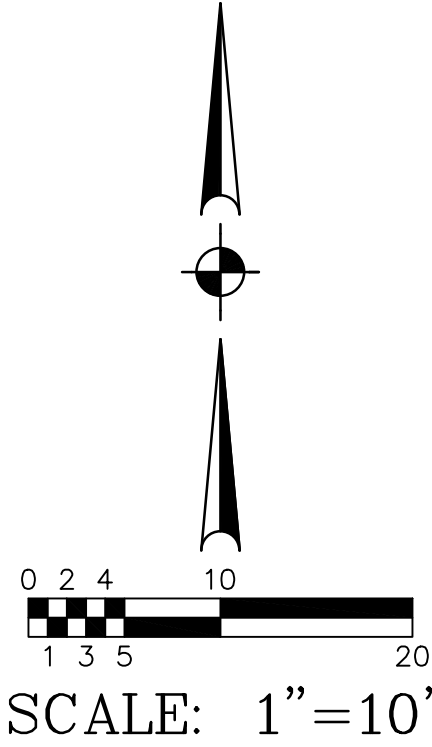
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9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

COURTYARD NOTES:

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NOTE:
TEMPORARY RETENTION BASIN TO BE BUILT AND MAINTAINED UNTIL THE NORTH EAST PLAYFIELD AND RETENTION BASIN IS CONSTRUCTED AND STORM DRAIN SYSTEM TO TRANSFER DRAINAGE TO THE PLAYFIELD IS OPERATIONAL. THEN TEMPORARY BASIN CAN BE FILLED IN AND THE REMAINDER OF COURTYARD IMPROVEMENTS CAN BE CONSTRUCTED.



TEMPORARY RETENTION BASIN PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-20
4TH CITY SUBMITTAL SET	20	40	
DATE: 12-06-19			

727 W. CORNELL DRIVE
DS1903962 EN190105

FOUND BRASS CAP IN HANDHOLE LOCATED AT THE SOUTH QUARTER CORNER OF SECTION 4, TOWNSHIP 1 SOUTH, RANGE 4 EAST. BRASS CAP NUMBER 247

GUADALUPE ROAD

N00°04'43"W(R1)(R3)(M)
2626.41'(R1) 2626.61'(C)

N00°04'43"W(R1)(R2)(M) 5303.34'(R1)(R2) 5303.30'(M)

S89°43'42"E(R1)(C)
206.24'(R1)(C)

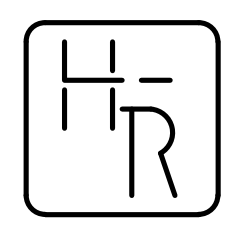
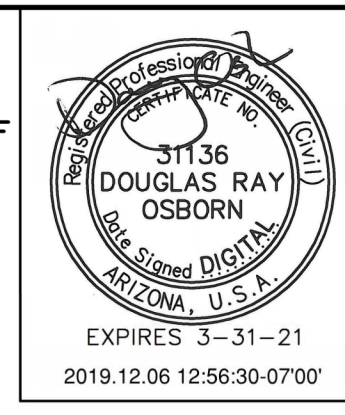
CENTER QUARTER CORNER OF SECTION 4, TOWNSHIP 1 SOUTH, RANGE 4 EAST. NOTHING FOUND, NOTHING SET.

N00°04'43"W(R1)(R2)(M)
2654.63'(R1)(R2) 2654.39'(C)

BASELINE ROAD

FOUND BRASS CAP IN HANDHOLE LOCATED AT THE NORTH QUARTER CORNER OF SECTION 4, TOWNSHIP 1 SOUTH, RANGE 4 EAST. BRASS CAP NUMBER 118

N00°04'43"W(R1)(R2)(M)
11.41'(R1)(R2)(M)



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DES. **VR** DRN. **ANM** CKD. **DRO** JOB NO. **1902-05**

$\Delta=14'36'48''(R3)(M)$
 $R=2760.00'(R3)(M)$
 $L=703.94'(R3)(M)$
 $T=353.89'(M)$

30' COMMUNICATION EASEMENT
(DOCKET NO. 11433, PAGE 648)

30' INGRESS, EGRESS, ROADWAY, & UTILITIES EASEMENT (DOCKET NO. 11055, PAGE 1203)

$\Delta=16'36'38''(M)$
 $R=330.00'(R1)(M)$
 $L=95.67'(R1)(M)$
 $T=48.17'(M)$

8' ELECTRIC EASEMENT
(REC. NO. 20180223908)

30' GAS EASEMENT
(DOCKET NO. 491, PAGE 92)

33' INGRESS, EGRESS, ROADWAY & UTILITIES EASEMENT (DOCKET NO. 11055, PAGE 1201)

30' GAS EASEMENT

MATCH BELOW LEFT

7' ELECTRIC EASEMENT
(DOCKET NO. 14846, PAGE 996)

CONNECT NEW 18" IRRIGATION PIPE TO EXISTING IRRIGATION PIPE WITH CONCRETE PIPE COLLAR

7' ELECTRIC EASEMENT (DOCKET NO. 14846, PAGE 996)

8' ELECTRIC EASEMENT (REC. NO. 20180223905)

12' PUBLIC UTILITIES EASEMENT (DOCKET NO. 14975, PAGE 803)

8' ELECTRIC EASEMENT (REC. NO. 20180223905)

32' ROADWAY & PUBLIC UTILITIES EASEMENT (DOCKET NO. 14975, PAGE 801)

30' PUBLIC UTILITIES EASEMENT (DOCKET NO. 12622, PAGE 275)

W. CORNELL DR.

32' ROADWAY & PUBLIC UTILITIES EASEMENT (DOCKET NO. 14975, PAGE 801)

8' ELECTRIC EASEMENT (REC. NO. 20180223905)

8' ELECTRIC EASEMENT (REC. NO. 20180223908)

7' ELECTRIC EASEMENT (DOCKET NO. 11283, PAGE 842)

8' ELECTRIC EASEMENT (REC. NO. 20180223908)

9'x9.5' ELECTRIC EASEMENT (DOCKET NO. 11283, PAGE 842)

60' YARD MAINTENANCE (REC. NO. 19920072458)

60' YARD MAINTENANCE (REC. NO. 19920072458)

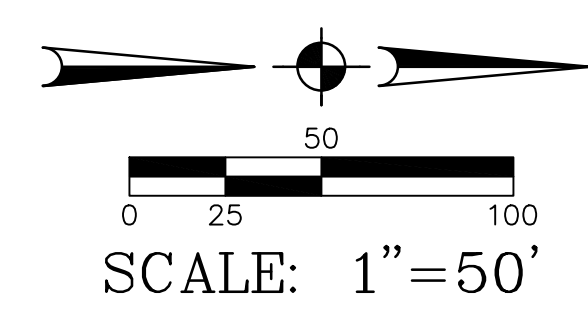
32' ROADWAY & PUBLIC UTILITIES EASEMENT (DOCKET NO. 14975, PAGE 801)

$\Delta=18'31'58''(R1)$
 $\Delta=18'31'56''(M)$
 $R=600.00'(R1)(M)$
 $L=194.07'(R1)(M)$
 $T=97.89'(M)$

110'x110' INGRESS, EGRESS, ROADWAY, & UTILITIES EASEMENT (DOCKET NO. 11279, PAGE 88)

6' COMMUNICATION EASEMENT (DOCKET NO. 14669, PAGE 277)

5'x6' COMMUNICATION EASEMENT (DOCKET NO. 14669, PAGE 274)



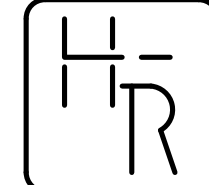
LEGEND

- PROPOSED REDUCER
- SDMH PROPOSED STORM DRAIN MANHOLE
- AD PROPOSED AREA DRAIN
- GI PROPOSED GREASE INTERCEPTOR
- DW PROPOSED DRYWELL
- SCB PROPOSED SINGLE CATCH BASIN
- DCB PROPOSED DOUBLE CATCH BASIN
- CO PROPOSED STORM DRAIN/SEWER CLEANOUT
- PV PROPOSED PASTURE VALVE
- IMH PROPOSED IRRIGATION MANHOLE
- SP PROPOSED SPLASHPAD
- SD PROPOSED H.D.P.E. STORM DRAIN PIPE
- IRR PROPOSED IRRIGATION PIPE
- CB TYPE 'D' PROPOSED CATCH BASIN TYPE 'D'
- DI PROPOSED DUCTILE IRON PIPE
- SS PROPOSED P.V.C. SANITARY SEWER LINE
- VCP SS PROPOSED V.C.P. SANITARY SEWER LINE
- DI SS PROPOSED DUCTILE IRON SANITARY SEWER LINE
- DCO PROPOSED SEWER DOUBLE CLEANOUT
- SSMH PROPOSED SANITARY SEWER MANHOLE

MASTER STORM DRAIN AND SEWER LINE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET	21	40	C-21
DATE:	12-06-19		



727 W. CORNELL DRIVE
DS190362 EN190105 19020501.DWG



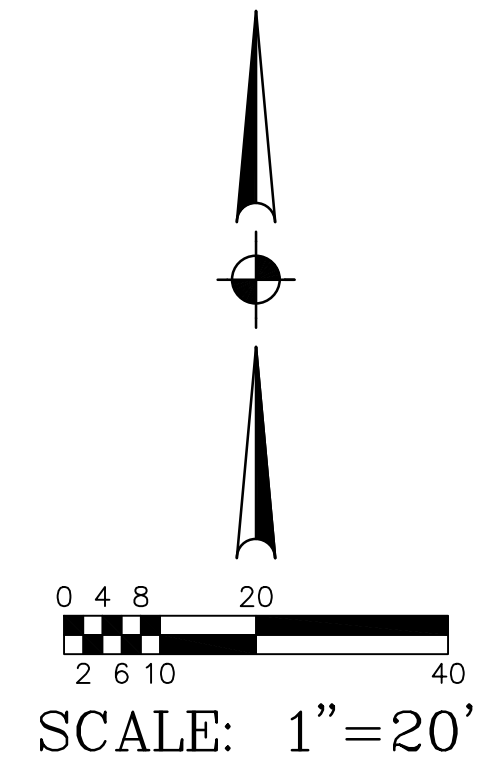
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DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

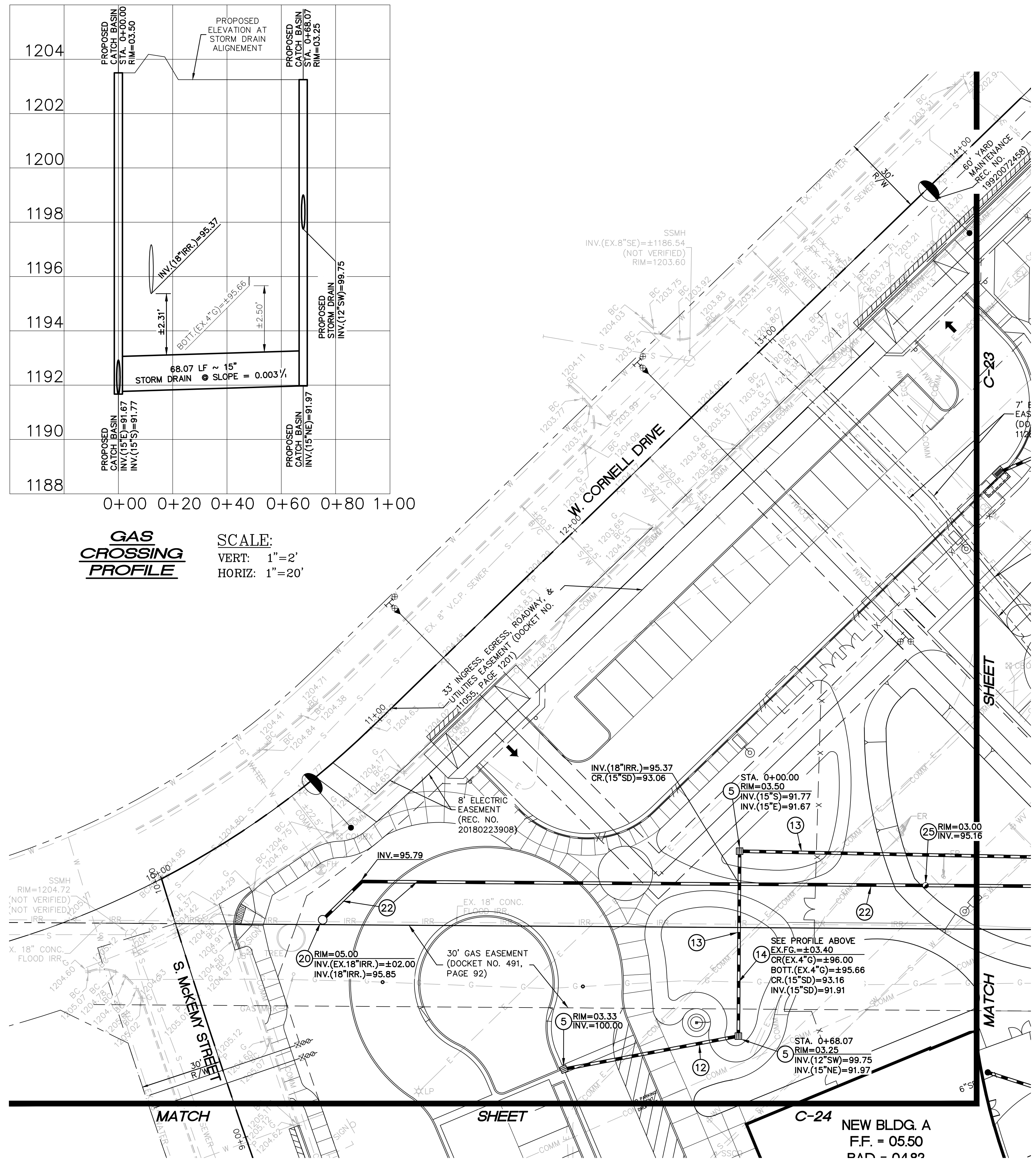
UNDERGROUND UTILITY TRACER WIRE NOTE:
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NOTE:
ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

- STORM DRAIN CONSTRUCTION NOTES:**
1. INSTALL AREA DRAIN (SEE DETAIL ON SHEET C-2).
 2. CONSTRUCT CATCH BASIN (MAG STANDARD DETAIL NO. 537, DOUBLE).
 3. CONSTRUCT CATCH BASIN TYPE 'D' (MAG STANDARD DETAIL NO. 533-1, L=3 FEET).
 4. CONNECT TO ROOF DRAIN OR DOWNSPOUT WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING OR ARCHITECTURAL DRAWINGS FOR CONTINUATION.
 5. INSTALL CATCH BASIN (MAG STANDARD DETAIL NO. 537, SINGLE).
 6. CONSTRUCT DUAL CHAMBER DRYWELL (SEE DETAIL ON SHEET C-2).
 7. INSTALL STORM DRAIN MANHOLE (MAG STANDARD DETAIL NO.'S 520 AND 522).
 8. INSTALL NEW 24" DUCTILE IRON PIPE (PRESSURE CLASS 350).
 9. INSTALL NEW 4" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
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 13. INSTALL NEW 15" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
 14. FIELD VERIFY LOCATION AND ELEVATION OF EXISTING GAS LINE. PROTECT FROM DAMAGE. THE GAS LINE IS A KINDER MORGAN OPERATED FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS EASEMENT WITH KINDER MORGAN. KINDER MORGAN GUIDELINES FOR CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES ARE ON SHEET C-3. PRIOR TO CONSTRUCTION HEAVY MACHINERY CROSSING POINTS NEED TO BE REVIEWED WITH KINDER MORGAN. POT-HOLING AND STRESS CALCULATIONS SHALL BE DONE BEFORE MACHINERY CROSSES THE EASEMENT.
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 21. CONNECT NEW 18" FLOOD IRRIGATION PIPE TO EXISTING WITH A CONCRETE PIPE COLLAR (MAG STANDARD DETAIL NO. 505). FIELD VERIFY ELEVATION AND LOCATION PRIOR TO CONSTRUCTION.
 22. INSTALL 18" PLASTIC IRRIGATION PIPE (PIP), SDR-51.
 23. INSTALL 12" PLASTIC IRRIGATION PIPE (PIP), SDR-51.
 24. CONSTRUCT IRRIGATION STANDPIPE (MAG STANDARD DETAIL NO. 503, TYPE 'B'). INSTALL HEADGATES ON NORTH, EAST AND SOUTH SIDES OF THE STANDPIPE.
 25. INSTALL PASTURE VALVE (SEE DETAIL ON SHEET C-2).
 26. INSTALL NEW 15" DUCTILE IRON PIPE (PRESSURE CLASS 350).
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STORM DRAIN AND FLOOD IRRIGATION PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-22
4TH CITY SUBMITTAL SET	22	40	
DATE:	12-06-19		



STORM DRAIN CONSTRUCTION NOTES:

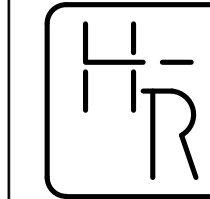
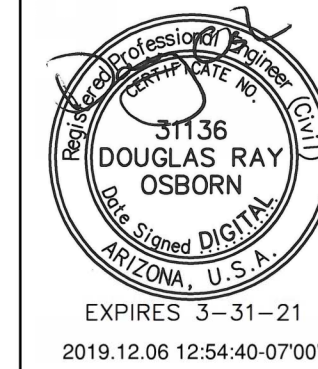
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24. CONSTRUCT IRRIGATION STANDPIPE (MAG STANDARD DETAIL NO. 503, TYPE 'B'). INSTALL HEADGATES ON NORTH, EAST AND SOUTH SIDES OF THE STANDPIPE.
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26. INSTALL NEW 15" DUCTILE IRON PIPE (PRESSURE CLASS 350).
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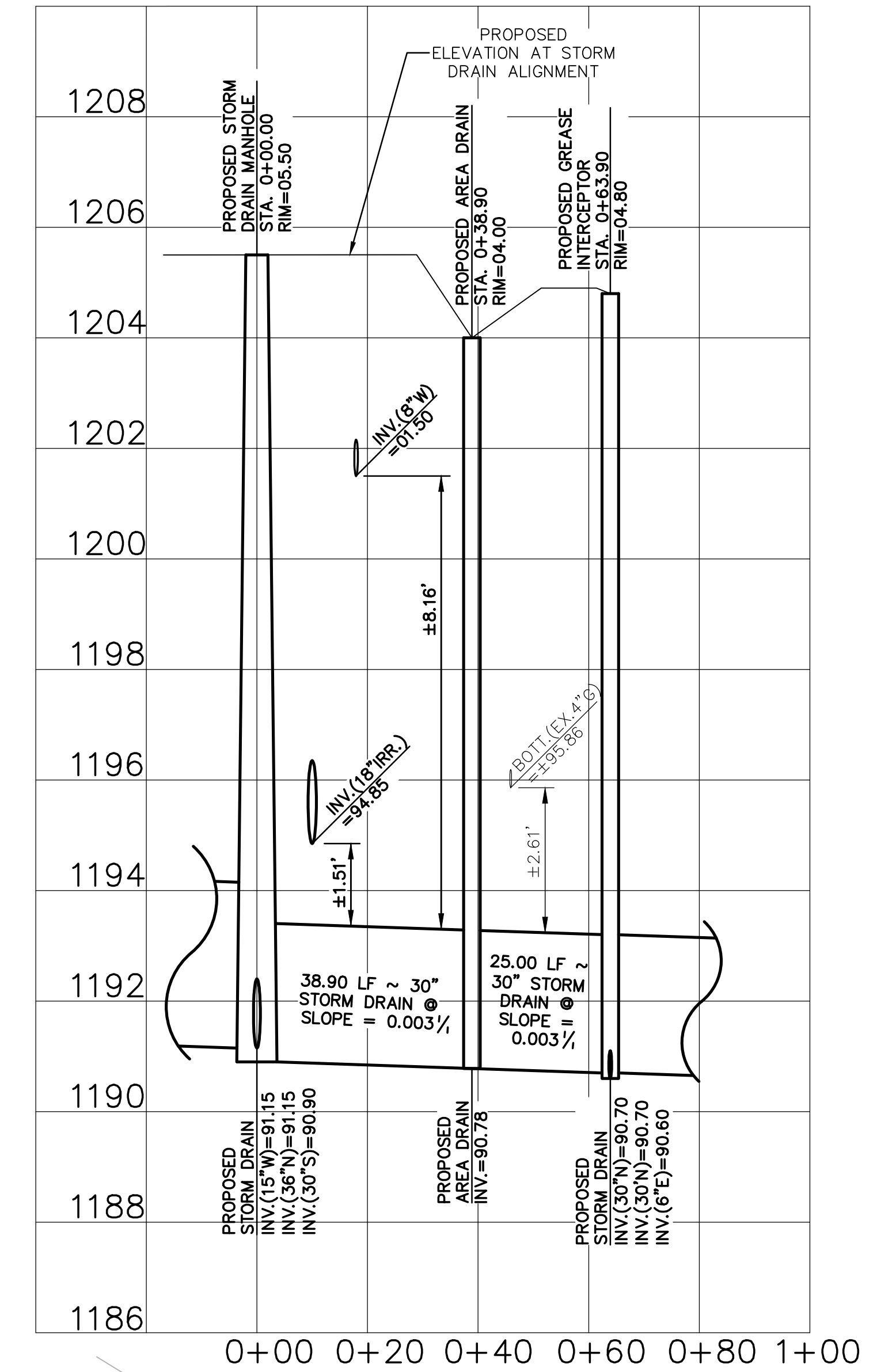
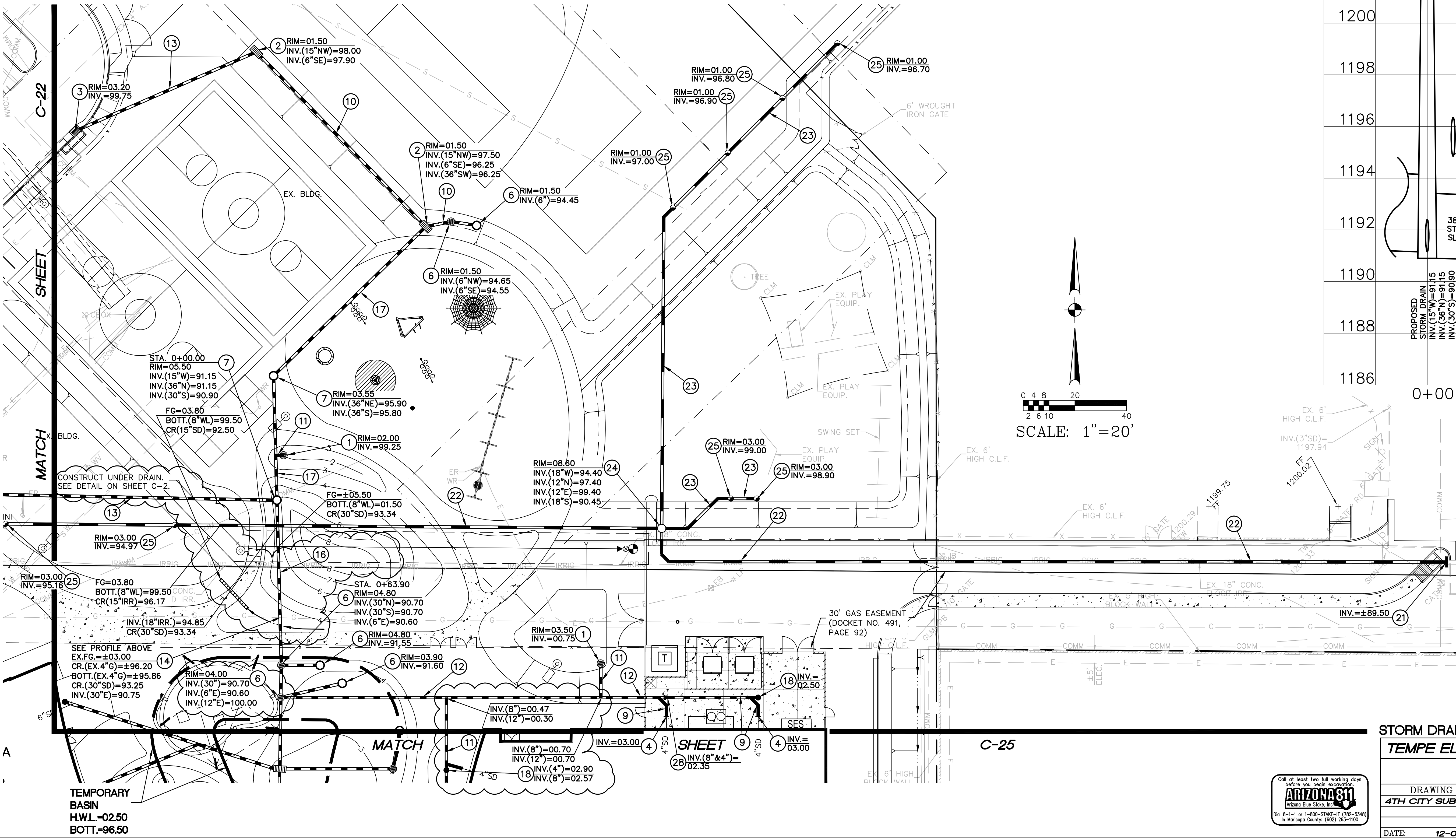


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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

NOTE:

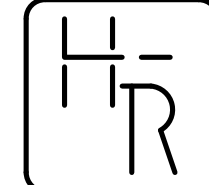
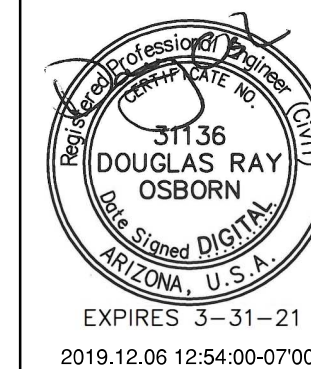
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STORM DRAIN AND FLOOD IRRIGATION PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-23
4TH CITY SUBMITTAL SET	23	40	
DATE:	12-06-19		



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DS190362 EN190105 190205SD3.DWG



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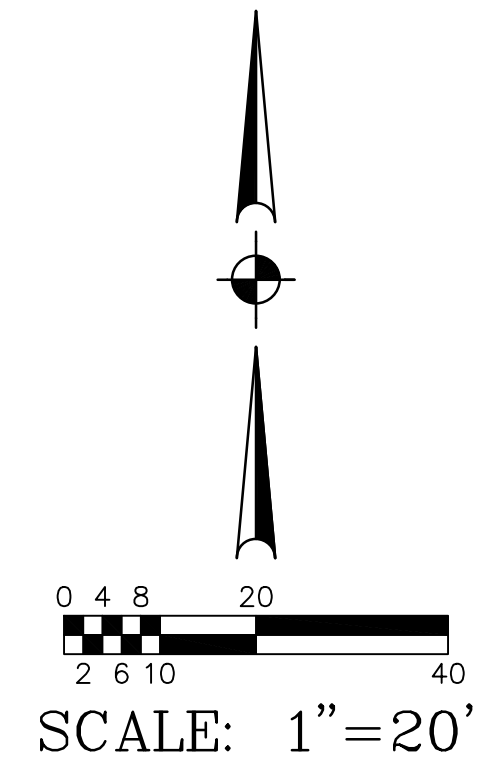
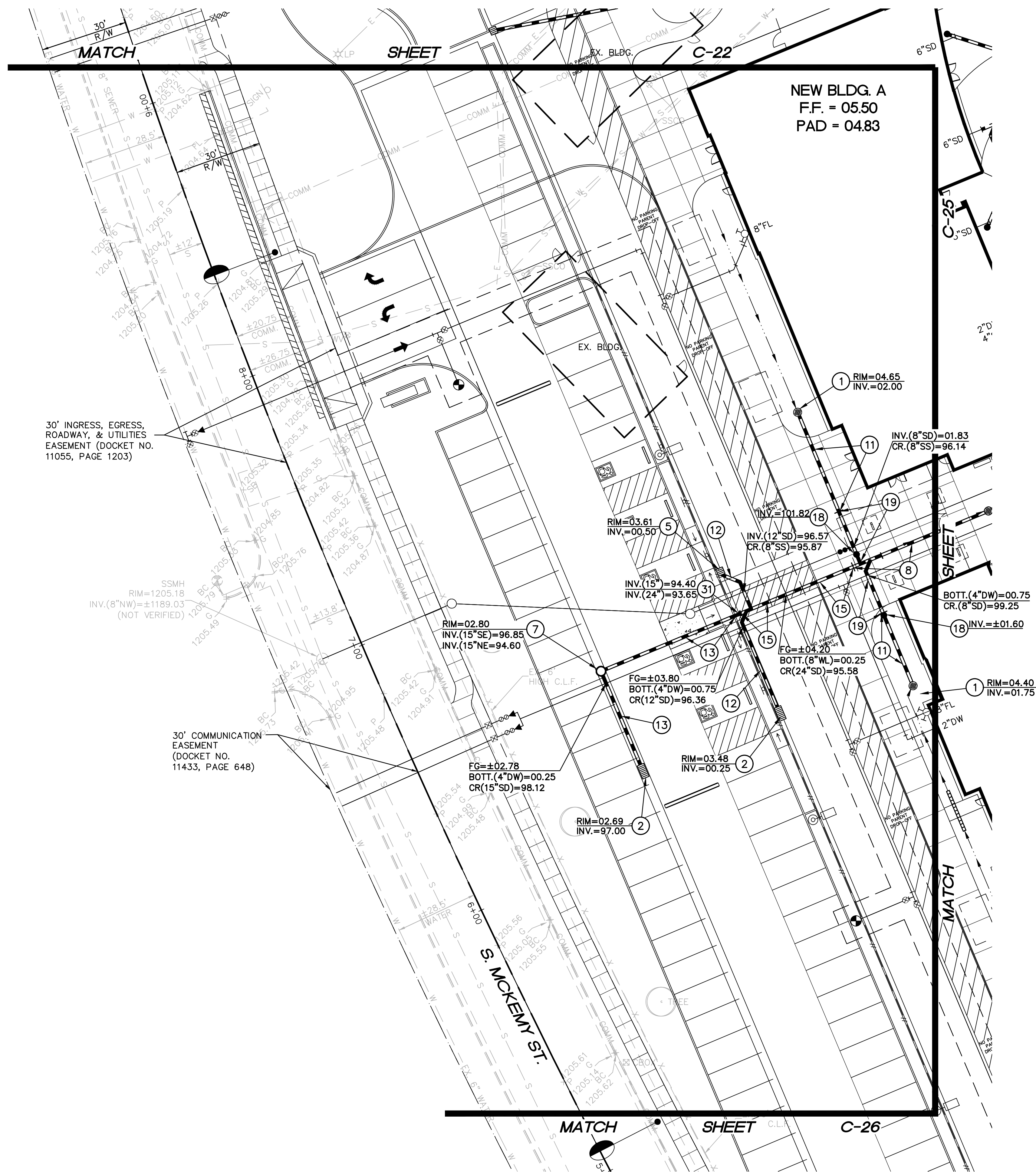
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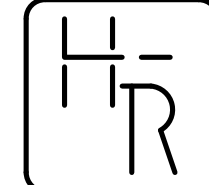
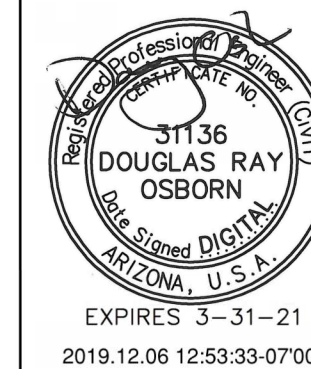
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STORM DRAIN PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET		OF
4TH CITY SUBMITTAL SET			
	24		40
DATE:	12-06-19		
			C-24

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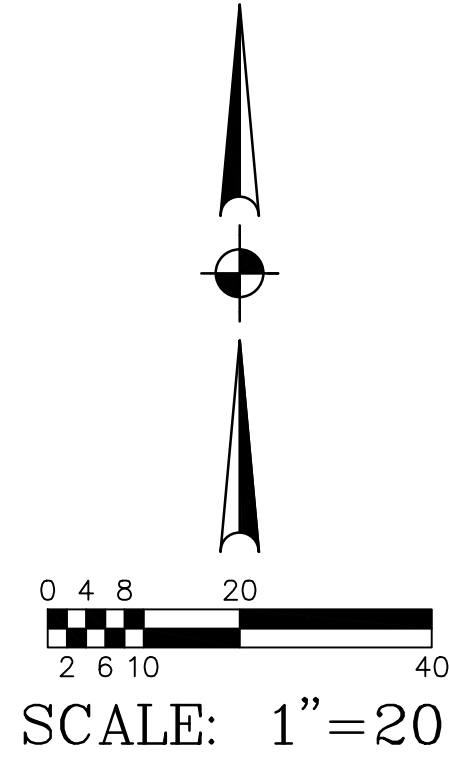
DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

STORM DRAIN CONSTRUCTION NOTES:

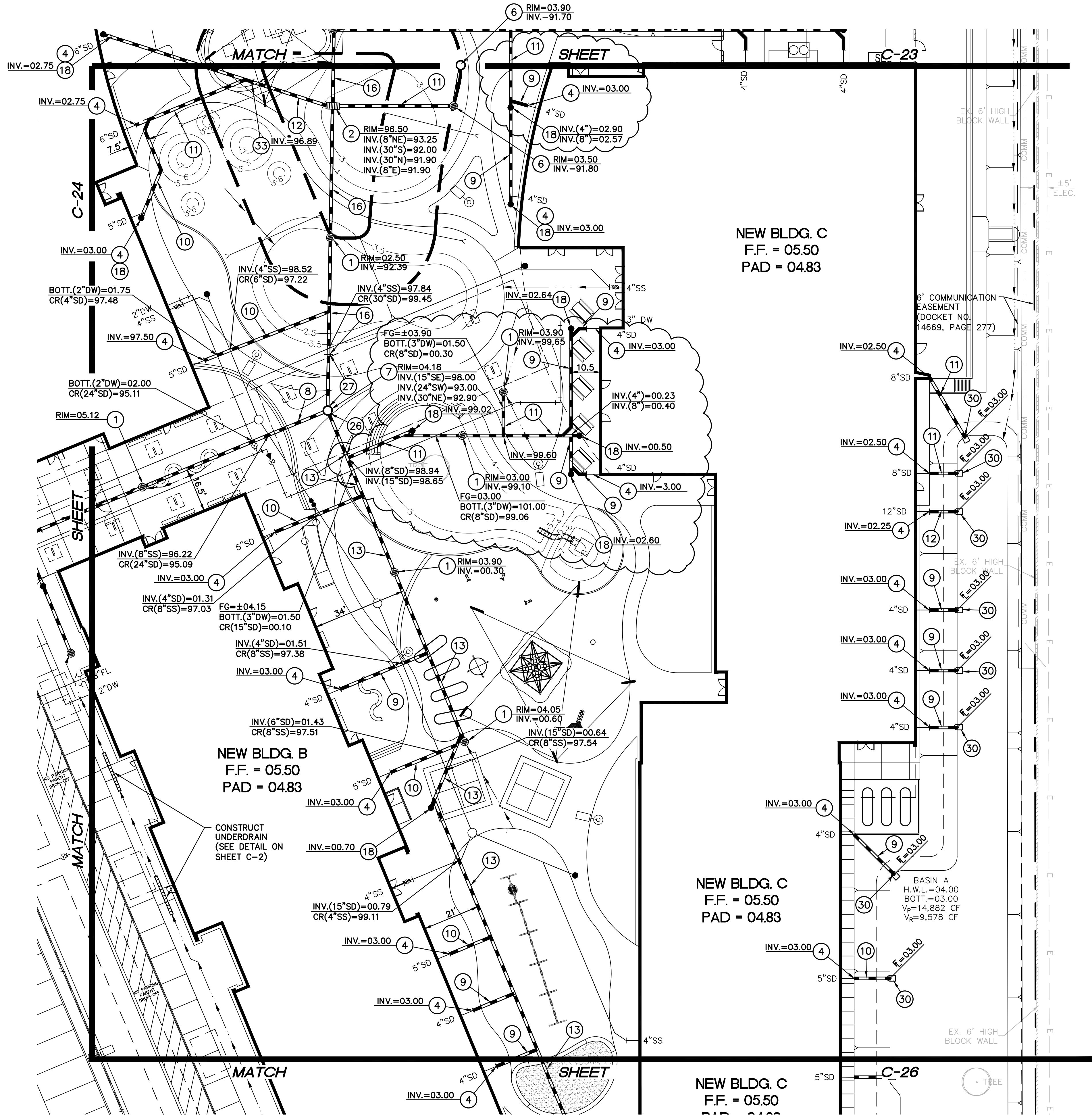
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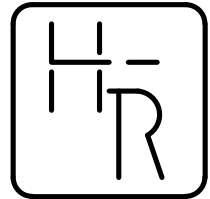
STORM DRAIN PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-25
4TH CITY SUBMITTAL SET	25	40	
DATE: 12-06-19			



727 W. CORNELL DRIVE
DS190362 EN190105 19020505.DWG

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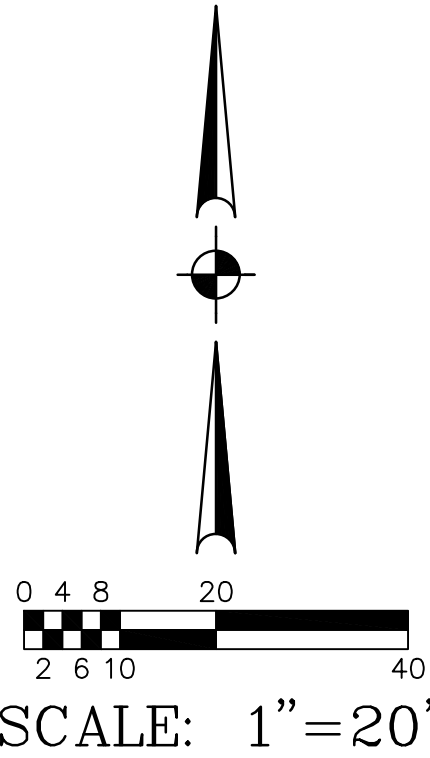
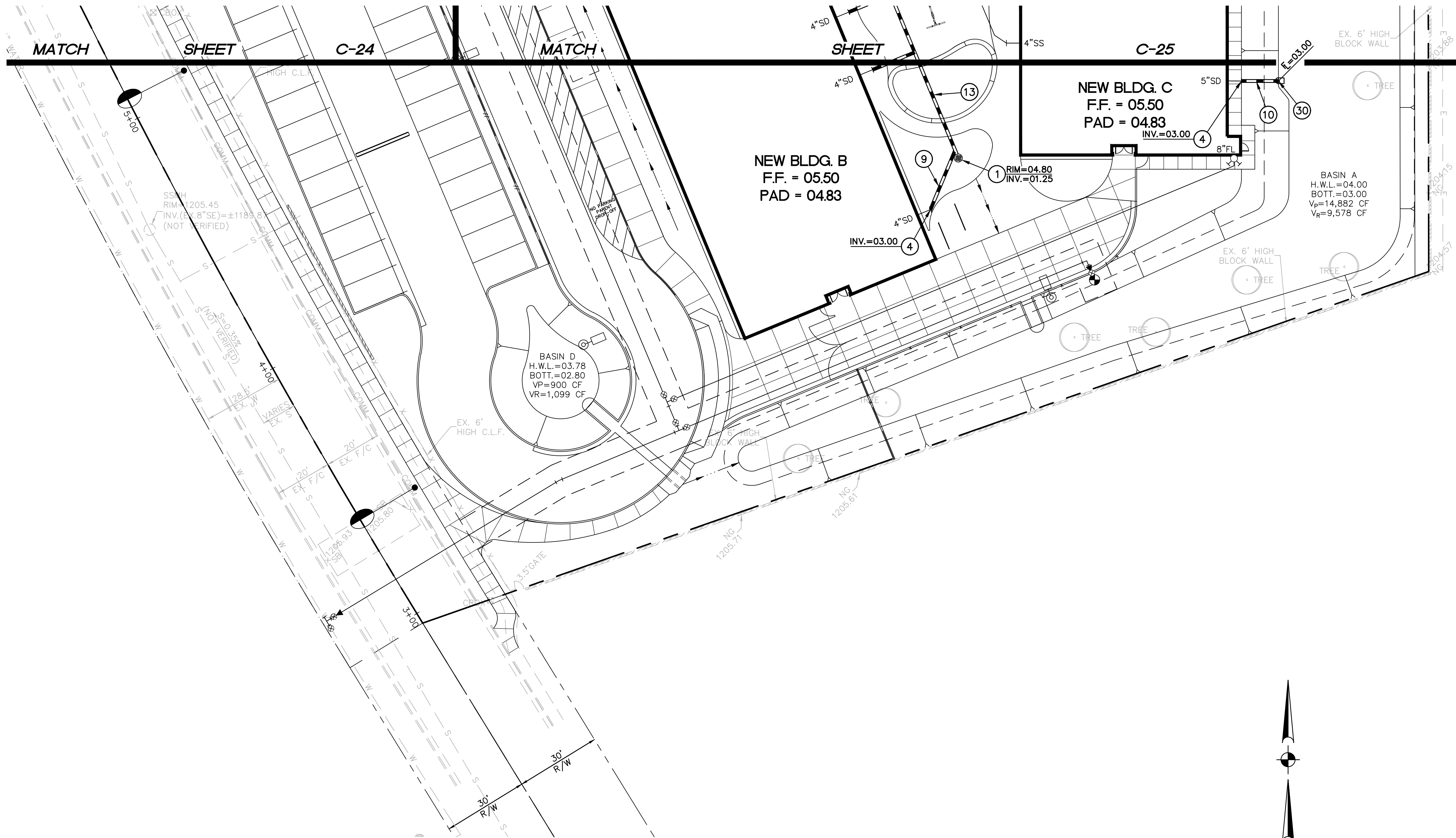


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1. INSTALL AREA DRAIN (SEE DETAIL ON SHEET C-2).
2. CONSTRUCT CATCH BASIN (MAG STANDARD DETAIL NO. 537, DOUBLE).
3. CONSTRUCT CATCH BASIN TYPE 'D' (MAG STANDARD DETAIL NO. 533-1, L=3 FEET).
4. CONNECT TO ROOF DRAIN OR DOWNSPOUT WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING OR ARCHITECTURAL DRAWINGS FOR CONTINUATION.
5. INSTALL CATCH BASIN (MAG STANDARD DETAIL NO. 537, SINGLE).
6. CONSTRUCT DUAL CHAMBER DRYWELL (SEE DETAIL ON SHEET C-2).
7. INSTALL STORM DRAIN MANHOLE (MAG STANDARD DETAIL NO.'S 520 AND 522).
8. INSTALL NEW 24" DUCTILE IRON PIPE (PRESSURE CLASS 350).
9. INSTALL NEW 4" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
10. INSTALL NEW 6" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
11. INSTALL NEW 8" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
12. INSTALL NEW 12" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
13. INSTALL NEW 15" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
14. FIELD VERIFY LOCATION AND ELEVATION OF EXISTING GAS LINE. PROTECT FROM DAMAGE. THE GAS LINE IS A KINDER MORGAN OPERATED FACILITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THIS EASEMENT WITH KINDER MORGAN. KINDER MORGAN GUIDELINES FOR CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES ARE ON SHEET C-3. PRIOR TO CONSTRUCTION HEAVY MACHINERY CROSSING POINTS NEED TO BE REVIEWED WITH KINDER MORGAN. POT-HOLING AND STRESS CALCULATIONS SHALL BE DONE BEFORE MACHINERY CROSSES THE EASEMENT
15. INSTALL NEW 24" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
16. INSTALL NEW 30" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
17. INSTALL NEW 36" H.D.P.E. STORM DRAIN PIPE WITH SMOOTH INTERIOR AND 10.8 P.S.I. JOINTS.
18. INSTALL STORM DRAIN CLEANOUT (SEE DETAIL ON SHEET C-2).
19. INSTALL NEW 8" DUCTILE IRON PIPE (PRESSURE CLASS 350).
20. CONSTRUCT PRESSURE MANHOLE (MAG STANDARD DETAIL NO. 520, 522 AND 523-1, -2).
21. CONNECT NEW 18" FLOOD IRRIGATION PIPE TO EXISTING WITH A CONCRETE PIPE COLLAR (MAG STANDARD DETAIL NO. 505). FIELD VERIFY ELEVATION AND LOCATION PRIOR TO CONSTRUCTION.
22. INSTALL 18" PLASTIC IRRIGATION PIPE (PIP), SDR-51.
23. INSTALL 12" PLASTIC IRRIGATION PIPE (PIP), SDR-51.
24. CONSTRUCT IRRIGATION STANDPIPE (MAG STANDARD DETAIL NO. 503, TYPE 'B'). INSTALL HEADGATES ON NORTH, EAST AND SOUTH SIDES OF THE STANDPIPE.
25. INSTALL PASTURE VALVE (SEE DETAIL ON SHEET C-2).
26. INSTALL NEW 15" DUCTILE IRON PIPE (PRESSURE CLASS 350).
27. INSTALL NEW 30" DUCTILE IRON PIPE (PRESSURE CLASS 350).
28. INSTALL 8" TO 4" REDUCER.
29. INSTALL 8" TO 6" REDUCER.
30. CONSTRUCT CONCRETE SPLASHPAD (SEE DETAIL ON SHEET C-2).
31. INSTALL 24" TO 15" REDUCER.
32. INSTALL 12" TO 10" REDUCER.
33. INSTALL 12" TO 6" REDUCER.



STORM DRAIN PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-26
4TH CITY SUBMITTAL SET	26	40	
DATE: 12-06-19			

727 W. CORNELL DRIVE

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3" CLEAR (ALL SIDES)

CONCRETE SLAB

1-1/4" DEEP CONTROL JOINT (TYP.)

2" CLEAR MIN.

9"

24" (ALL SIDES)

PREPARED ROCK

5:1 MAX. OR AS INDICATED ON PLANS

ELEVATION AS INDICATED ON PLAN

PLAN

24" TYP.

12" TYP.

ROUND OR SQUARE AS SHOWN OR NOTED ON PLANS

INSTALL NEW BASKETBALL BACKSTOP (COMPLETE)

MODIFIED BASE WHERE INSTALLED IN CONC. OTHER THAN PLAYCOURT

SECTION

INSTALL NEW BASKETBALL BACKSTOP (COMPLETE)

EXPANSION JOINT (TYP.)

SEE SECTION X-X

44" MIN.

36"

CONCRETE (3500 PSI MINIMUM AT 28 DAYS)

24"

Architectural drawing of a basketball court slab plan and striping layout. The drawing shows a rectangular court with a central circle and two side key areas. Key dimensions include a total width of 90'-0" and a total length of 56'-0". The court is divided into two halves by a center line. The side key areas are marked with a semi-circle and a dashed line. The drawing includes various callouts for expansion joints, rebar locations, and backstop footings. A note at the bottom right states: "NOTE: THIS SHEET IS NOT PART OF THE CONTRACT DOCUMENTS. IT IS FOR INFORMATION ONLY."

NOTE:

CRACKS IN CONCRETE COURTS SHALL OCCUR ONLY AT CONTROL JOINT LOCATIONS. IF CRACKS IN CONCRETE COURTS OCCUR AT OTHER AREAS, PANELS OF CONCRETE SHALL BE REMOVED, REPLACED AND DOWELLED INTO ADJACENT CONCRETE COURT PANELS AT THE CONTRACTOR'S EXPENSE.



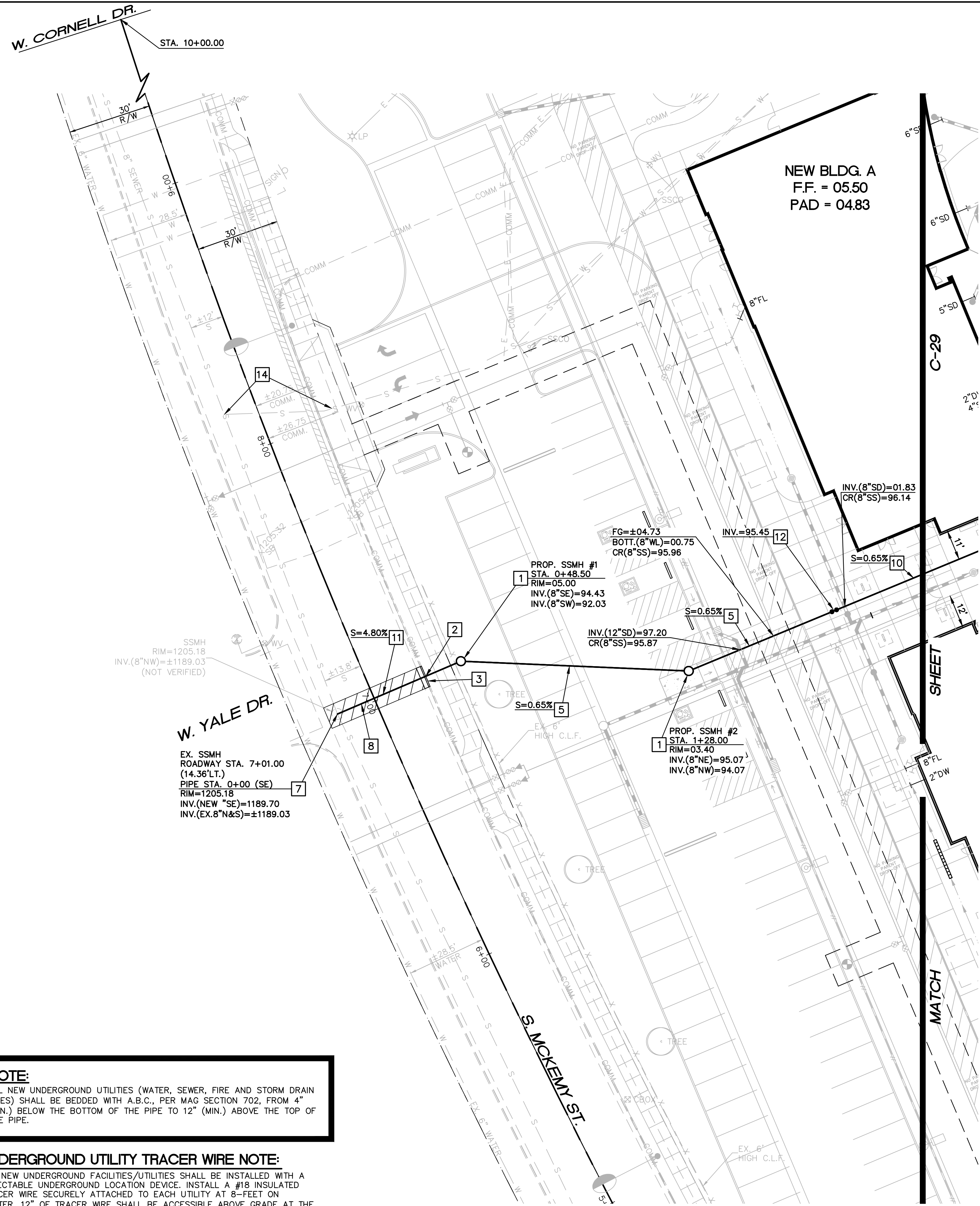
Technical drawing of a basketball court floor plan. The overall dimensions are 90'-0" wide by 56'-0" deep. The court is divided into sections with dimensions of 11'-3" and 9'-4". The drawing includes a center circle, a key (free-throw line area), and three-point arcs. A note indicates "PORTION OF PLAYCOURT STRIPING SHOWN FOR CLARITY". Another note specifies "1-1/4\" DEEP CONTROL JOINTS (TYPICAL)". The drawing is a black and white line drawing with a grid overlay.

FOUR-SQUARE STRIPING DETAIL

NOT TO SCALE

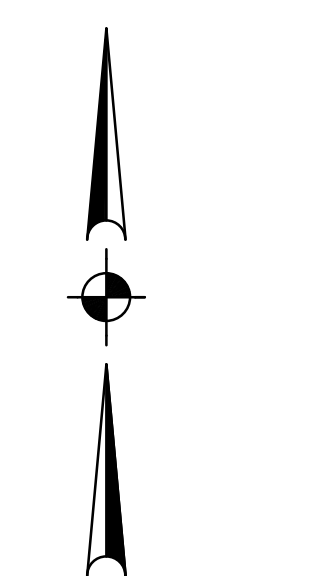
- # PLAYCOURT NOTES:
1. ALL POSTS, SLEEVES AND FOOTINGS FOR SAME ARE TO BE INSTALLED ABOUT 75' FROM CONCRETE COURTS HAVE CURED A MINIMUM OF TWO (2) WEEKS.
 2. ALL PAINTED LINES SHALL BE TWO (2) INCHES IN WIDTH UNLESS OTHERWISE NOTED.
 3. ALL BASKETBALL COURT LINES SHALL BE WHITE IN COLOR.
 4. ALL STRIPES FOR LARGE CIRCLE (16' RADIUS) SHALL BE RED IN COLOR.
 5. SUBGRADE BELOW ALL FOOTINGS SHALL BE COMPACTED TO 95% OF MAXIMUM ASTM D698 DENSITY.
 6. SINGLE BASKETBALL BACKSTOPS AT END OF EACH COURT SHALL BE GARED BRACED GOOSENECK SYSTEM (PART ON. GN60, 6' EXTENSION) WITH FAN-SHAPED ALUMINUM BACKBOARD, WHITE (PART NO. 1750-001) AND STATIONARY HIGH STRENGTH GOAL WITH NYLON NET (PART NO. 4-059) FIXED TO A GARED UNIVERSAL GOAL ADAPTER PLATE (PART NO. GSUAP) FOR EASY REMOVAL FROM THE BOARD, OR APPROVED EQUAL. SINGLE BASKETBALL BACKSTOPS ON EXTERIOR SIDES SHALL BE GARED BRACED GOOSENECK SYSTEM (PART ON. GN60, 4' EXTENSION) WITH FAN-SHAPED ALUMINUM BACKBOARD, WHITE (PART NO. 1750-001) AND STATIONARY HIGH STRENGTH GOAL WITH NYLON NET (PART NO. 4-059) FIXED TO A GARED UNIVERSAL GOAL ADAPTER PLATE (PART NO. GSUAP) FOR EASY REMOVAL FROM THE BOARD, OR APPROVED EQUAL.
 7. NORTHERN AND SOUTHERN PLAYCOURTS ARE TO HAVE 10-FOOT TALL BACKSTOPS WITH REMOVABLE GOALS. THE MIDDLE PLAYCOURT IS TO HAVE 8-FOOT TALL BACKSTOPS WITH REMOVABLE GOALS. MODIFY MIDDLE PLAYCOURT BACKSTOPS AS A REQUIRED (CUTTING OR DEEPENING FOOTING) SO THE GOALS ARE 8-FOOT TALL.

PLAYCOURT DETAIL SHEET			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-27
4TH CITY SUBMITTAL SET	27	40	
DATE: 12-06-19			



NOTE:
ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

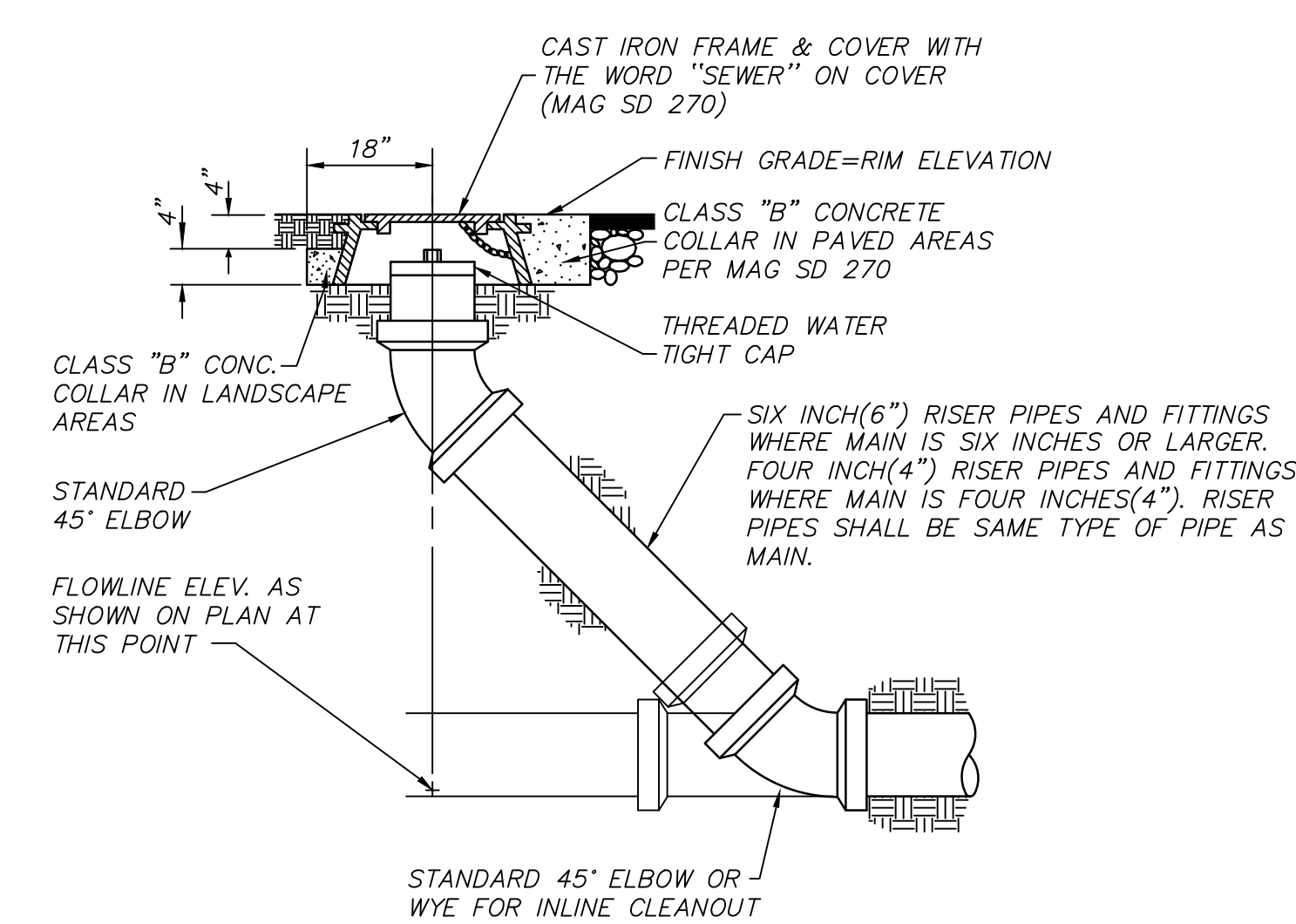
UNDERGROUND UTILITY TRACER WIRE NOTE:
ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF TEMPE AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.



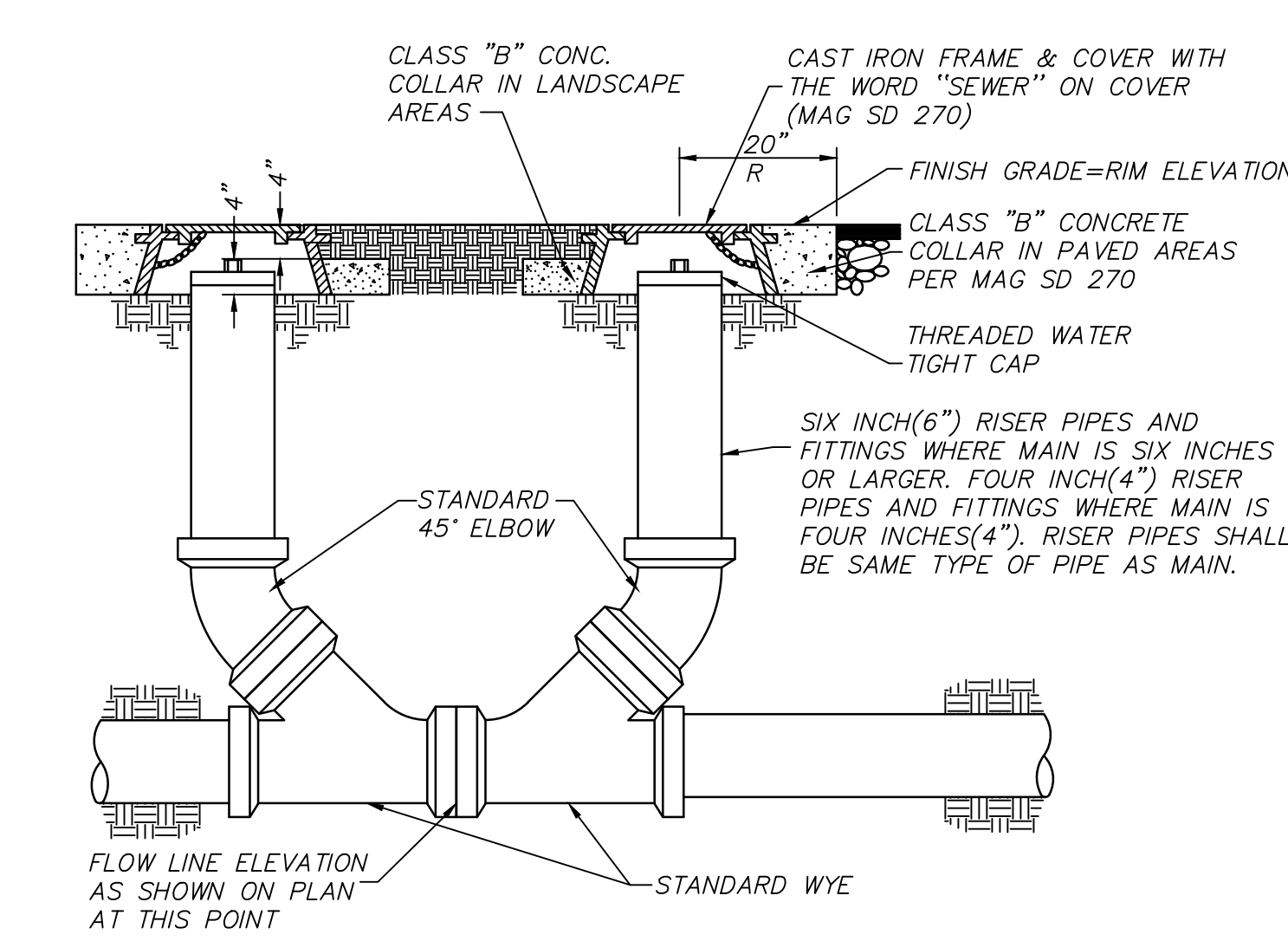
NOTE:
SEE MASTER SEWER LINE
INFORMATION ON SHEET C-21

HESS — ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. PM	DRN. ANM	CKD DRO	JOB NO. 1902-05
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SEWER CLEANOUT (MODIFICATION OF MAG S.D. NO. 441)
NOT TO SCALE



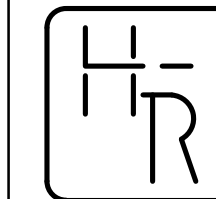
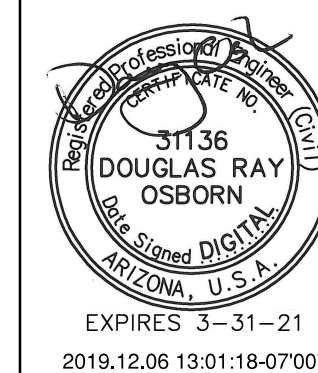
TWO WAY SEWER CLEANOUT
NOT TO SCALE

- PRIVATE SANITARY SEWER LINE CONSTRUCTION NOTES:**
1. INSTALL 5' DIAMETER SEWER MANHOLE WITH 30" DIAMETER FRAME AND COVER (MAG STANDARD DETAIL NO.'S 420-1, 420-2, 420-3 AND 423-2).
 2. FIELD VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING COMMUNICATION LINE PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. NEW SEWER LINE TO HAVE A MINIMUM TWO FOOT SEPARATION VERTICALLY FROM DRY UTILITIES. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE REDESIGN.
 3. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB, GUTTER AND SIDEWALK (MAG STANDARD DETAIL NOS. 220-1, TYPE A AND 230) TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR.
 4. CONNECT TO BUILDING SEWER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE BUILDING PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
 5. INSTALL 8" P.V.C. (ASTM D3034, SDR-35) SEWER LINE.
 6. INSTALL 4" P.V.C. (ASTM D3034, SDR-35) SEWER LINE.
 7. CORE DRILL INTO EXISTING SEWER MANHOLE TO INSTALL A NEW 8" TAP. RE-GROUT AROUND PENETRATION USING NON-SHRINKING MORTAR TO OBTAIN A WATERTIGHT CONNECTION. RECONSTRUCT MANHOLE BASE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION OF FLOW TO EXISTING SEWER MAIN. EXISTING MANHOLE TO BE PAINTED WITH INSECTICIDE PAINT PER CITY OF TEMPE REQUIREMENTS AND MAG SECTION 627. FIELD VERIFY ELEVATION OF EXISTING SEWER MANHOLE INVERTS PRIOR TO CONSTRUCTION. PROVIDE INFORMATION TO DESIGN ENGINEER FOR POSSIBLE REDESIGN.
 8. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (CITY OF TEMPE STANDARD DETAIL NO. T-450 OR MATCH EXISTING, WHICHEVER IS GREATER).
 9. INSTALL SANITARY SEWER CLEANOUT (SEE DETAIL ON SHEET C-28).
 10. INSTALL 8" DUCTILE IRON (PRESSURE CLASS 350) SEWER LINE.
 11. INSTALL 8" V.C.P. SEWER LINE.
 12. INSTALL SANITARY SEWER TWO WAY CLEANOUT (SEE DETAIL ON SHEET C-26).
 13. INSTALL 6" DUCTILE IRON (PRESSURE CLASS 350) SEWER LINE.
 14. EXISTING SEWER SERVICE TO BE REMOVED AND CAPPED AT THE SEWER MAIN PER CITY OF TEMPE REQUIREMENTS.

PRIVATE SANITARY SEWER LINE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	C-28
4TH CITY SUBMITTAL SET	28	40	
DATE: 12-06-19			



727 W. CORNELL DRIVE
DS190962 EN190105 190205C4.DWG



HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

**PRIVATE SANITARY SEWER LINE
CONSTRUCTION NOTES:**

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8. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (CITY OF TEMPE STANDARD DETAIL NO. T-450 OR MATCH EXISTING, WHICHEVER IS GREATER).
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10. INSTALL 8" DUCTILE IRON (PRESSURE CLASS 350) SEWER LINE.
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12. INSTALL SANITARY SEWER TWO WAY CLEANOUT (SEE DETAIL ON SHEET C-26).
13. INSTALL 6" DUCTILE IRON (PRESSURE CLASS 350) SEWER LINE.
14. EXISTING SEWER SERVICE TO BE REMOVED AND CAPPED AT THE SEWER MAIN PER CITY OF TEMPE REQUIREMENTS.

UNDERGROUND UTILITY TRACER WIRE NOTE:

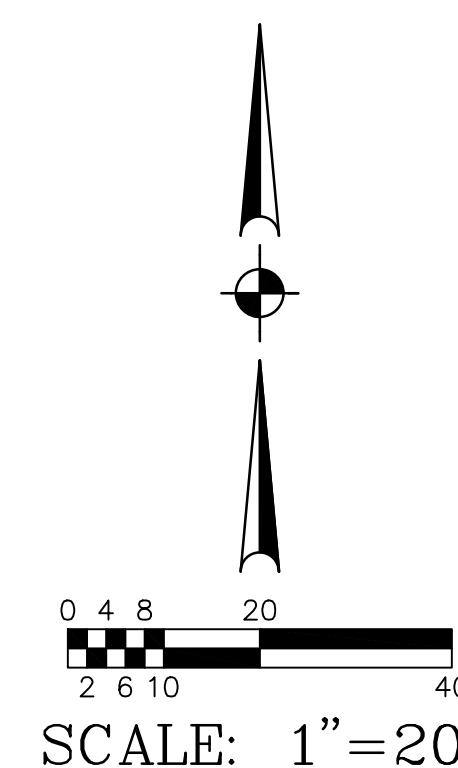
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NOTE:

ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

NOTE:

SEE MASTER SEWER LINE
INFORMATION ON SHEET C-21



PRIVATE SANITARY SEWER LINE PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

**IMPROVEMENT PLANS FOR
WOOD ELEMENTARY SCHOOL**

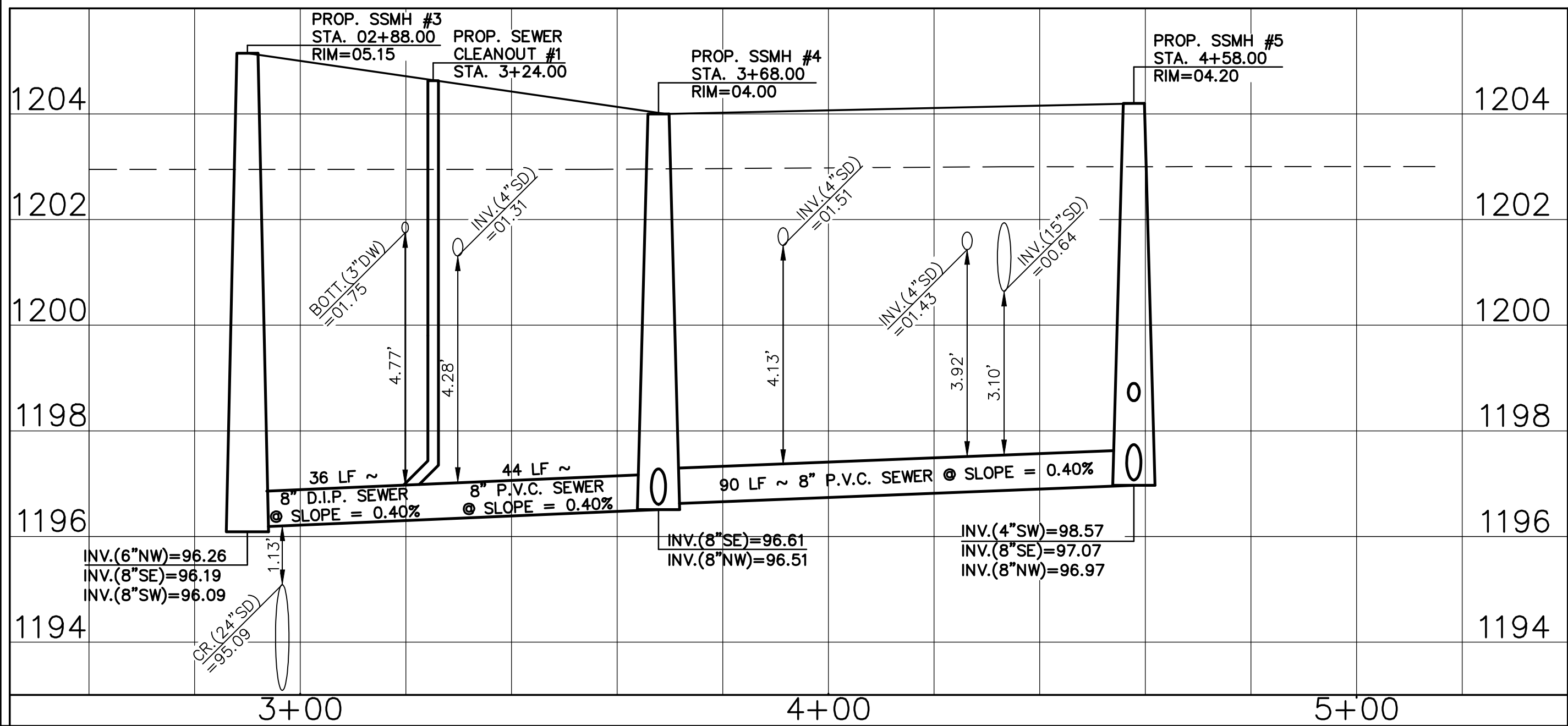
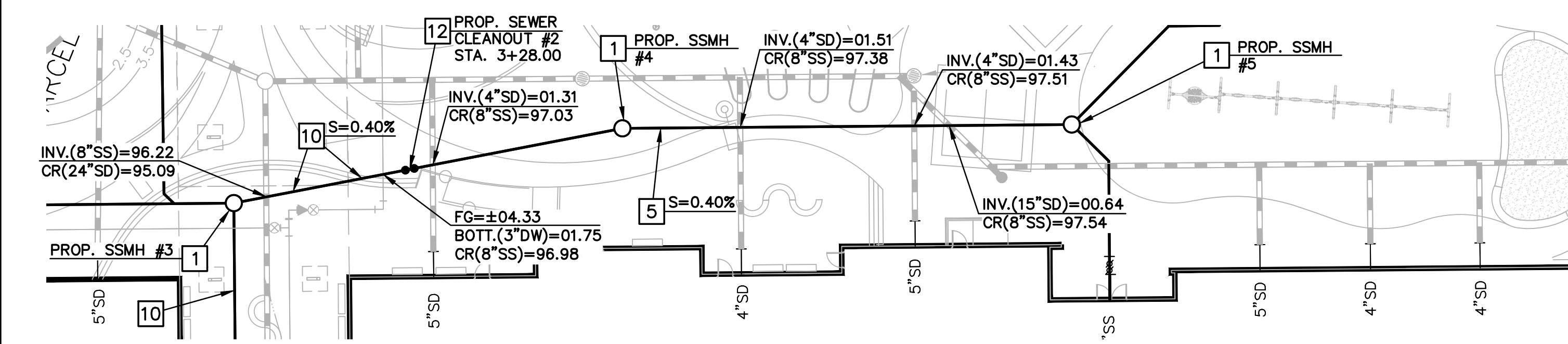
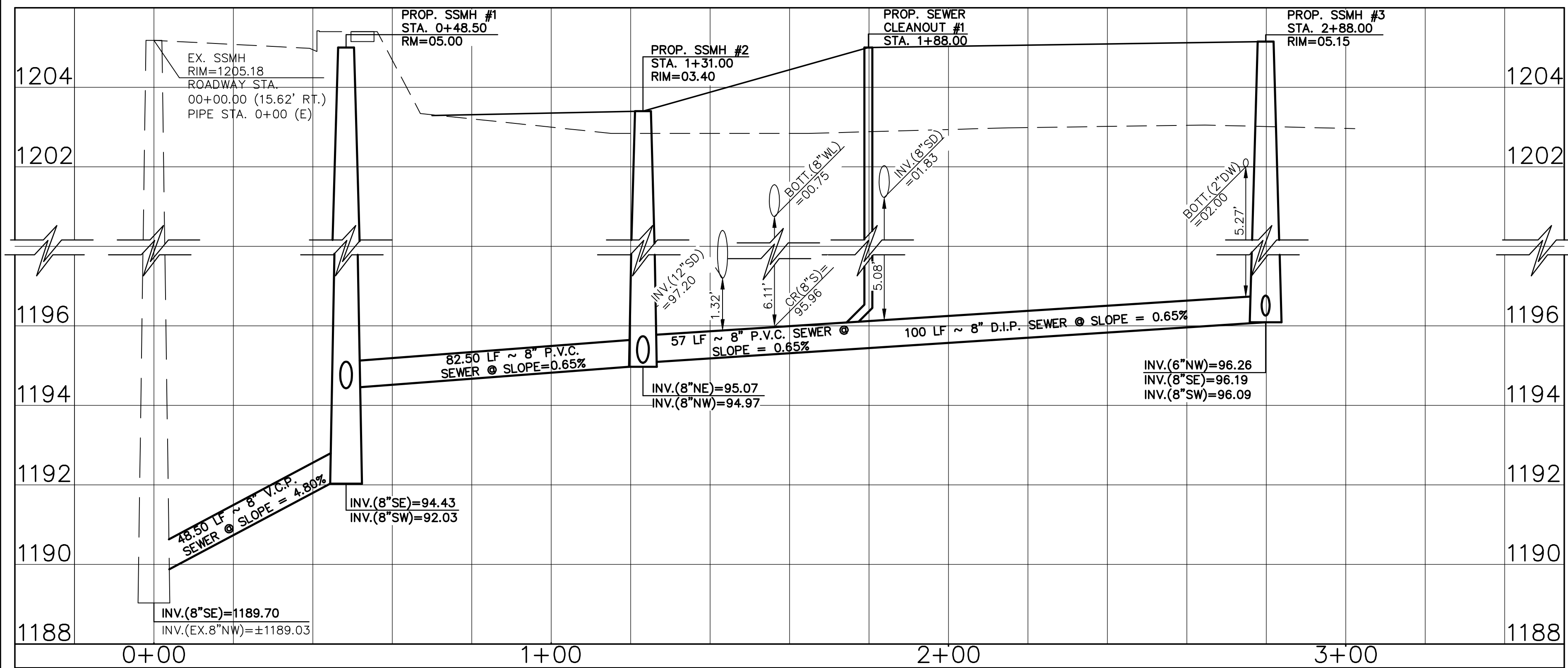
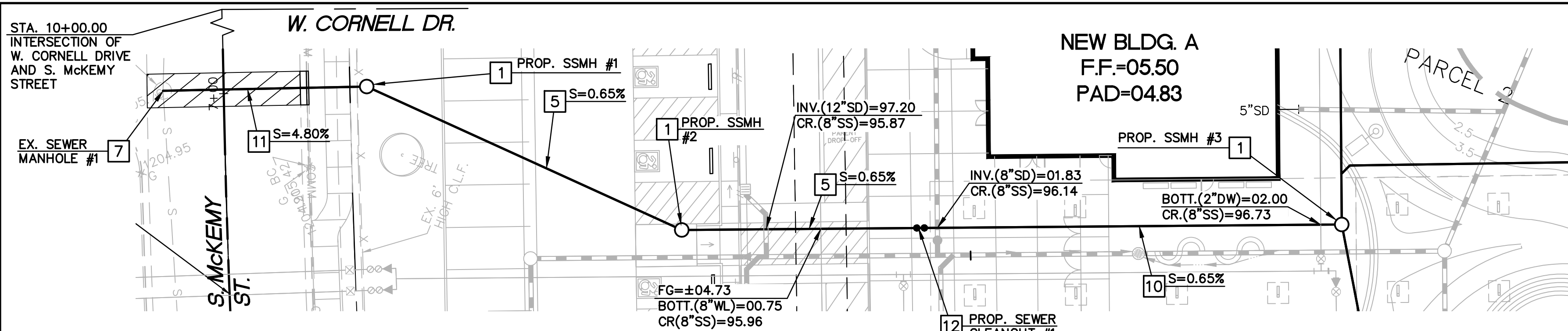
DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET			
	29	40	C-29
DATE:	12-06-19		



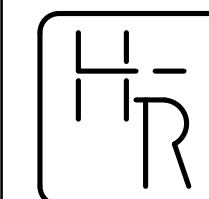
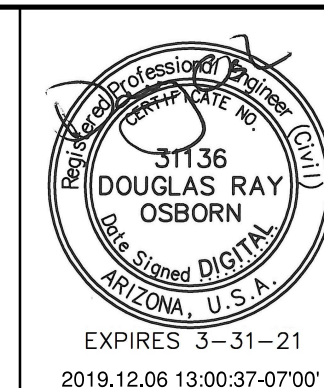
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NOTE:
SEE MASTER SEWER LINE
INFORMATION ON SHEET C-21



HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

PRIVATE SANITARY SEWER LINE CONSTRUCTION NOTES:

- INSTALL 5" DIAMETER SEWER MANHOLE WITH 30" DIAMETER FRAME AND COVER (MAG STANDARD DETAIL NO.'S 420-1, 420-2, 420-3 AND 423-2).
- FIELD VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING COMMUNICATION LINE PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. NEW SEWER LINE TO HAVE A MINIMUM TWO FOOT SEPARATION VERTICALLY FROM DRY UTILITIES. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES FOR POSSIBLE REDESIGN.
- SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB, GUTTER AND SIDEWALK (MAG STANDARD DETAIL NOS. 220-1, TYPE A AND 230) TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR.
- CONNECT TO BUILDING SEWER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE BUILDING PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- INSTALL 8" P.V.C. (ASTM D3034, SDR-35) SEWER LINE.
- INSTALL 4" P.V.C. (ASTM D3034, SDR-35) SEWER LINE.
- CORE DRILL INTO EXISTING SEWER MANHOLE TO INSTALL A NEW 8" TAP. RE-GROUT AROUND PENETRATION USING NON-SHRINKING MORTAR TO OBTAIN A WATERTIGHT CONNECTION. RECONSTRUCT MANHOLE BASE AS REQUIRED TO PROVIDE A SMOOTH TRANSITION OF FLOW TO EXISTING SEWER MAIN. EXISTING MANHOLE TO BE PAINTED WITH INSECTICIDE PAINT PER CITY OF TEMPE REQUIREMENTS AND MAG SECTION 627. FIELD VERIFY ELEVATION OF EXISTING SEWER MANHOLE INVERTS PRIOR TO CONSTRUCTION. PROVIDE INFORMATION TO DESIGN ENGINEER FOR POSSIBLE REDESIGN.
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- INSTALL SANITARY SEWER TWO WAY CLEANOUT (SEE DETAIL ON SHEET C-26).
- INSTALL 6" DUCTILE IRON (PRESSURE CLASS 350) SEWER LINE.
- EXISTING SEWER SERVICE TO BE REMOVED AND CAPPED AT THE SEWER MAIN PER CITY OF TEMPE REQUIREMENTS.

UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF TEMPE AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.

NOTE:

ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

PRIVATE SANITARY SEWER LINE PLAN AND PROFILE

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET	30	40	C-30
DATE:	12-06-19		



727 W. CORNELL DRIVE

DS190362 EN190105

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1) PROJECT DESCRIPTION

- A. PROPOSED CONSTRUCTION ACTIVITY:
THIS PROJECT INCLUDES CONSTRUCTION OF THREE NEW BUILDINGS, TWO NEW PARKING LOTS, SIDEWALK, FIRE LANE, SINGLE CURB, CURB AND GUTTER AND SITE UTILITIES. THE TOTAL SITE AREA IS APPROXIMATELY 11 ACRES. SOIL DISTURBING ACTIVITIES WILL INCLUDE CLEARING, GRADING, TRENCHING AND BACKFILLING FOR UTILITIES, CONCRETE INSTALLATION AND LANDSCAPING.
- B. SEQUENCE OF CONSTRUCTION ACTIVITY:
THE SEQUENCE OF EVENTS IS ANTICIPATED TO BE AS FOLLOWS:
- 1) CLEARING AND GRUBBING
 - 2) ROUGH GRADING
 - 3) INSTALLATION OF UTILITIES
 - 4) FINAL GRADING
 - 5) CONCRETE AND IMPROVEMENTS
 - 6) LANDSCAPING IMPROVEMENTS
- C. AREA OF SOIL DISTURBANCE:
SOIL: SANDY CLAY
ERODABILITY: MODERATE
IT IS ESTIMATED THAT THE TOTAL AREA OF SOIL DISTURBANCE IS APPROXIMATELY 11 ACRES.
- D. RUN-OFF COEFFICIENTS:
THE ESTIMATED RUN-OFF COEFFICIENTS FOR THE PROJECT ARE AS FOLLOWS:
- 1) PRE-DEVELOPMENT RUN-OFF COEFFICIENT = 0.65
 - 2) POST-DEVELOPMENT RUN-OFF COEFFICIENT = 0.75
- E. QUALITY OF SITE STORM WATER DISCHARGE:
PRIMARY POLLUTANT: SITE SOIL
IT IS NOT ANTICIPATED THAT ANY HAZARDOUS MATERIALS WILL TYPICALLY BE CONTAINED WITHIN STORM WATER DISCHARGE. THE EXCEPTION TO THIS WOULD BE ANY FUELS OR LUBRICANTS LEAKED FROM VEHICLES OR EQUIPMENT AND ANY FERTILIZERS OR HERBICIDES USED DURING THE LANDSCAPE IMPROVEMENTS.
- F. RECEIVING BODY OF WATER:
THE ULTIMATE RECEIVING BODY OF WATER, WHICH WOULD RECEIVE ANY STORM WATER IN EXCESS OF THAT CONTAINED WITHIN THE PROPOSED AND EXISTING RETENTION BASINS, IS THE SALT RIVER OR GILA RIVER.
- G. GRADING AND DRAINAGE PLAN:
THE GRADING AND DRAINAGE PLAN AS PREPARED BY HESS-ROUNTREE, INC., PROJECT #1902-05 SHALL BE CONSIDERED A PART OF THE STORMWATER MANAGEMENT PLAN, AND ALL FINAL GRADING AND IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THAT PLAN.
- H. NO WATER BODIES ARE ON SITE.

2) EROSION AND SEDIMENT CONTROLS

- A. IMMEDIATELY FOLLOWING CLEARING AND GRUBBING, AND AS PART OF THE INITIAL ROUGH GRADING, ALL RETENTION BASINS SHALL BE CUT TO GRADE AND PERIMETER BERMS CONSTRUCTED. THE BASINS AND BERMS SHALL CONSTITUTE THE REQUIRED SEDIMENT BASINS. GRADES SHALL BE CUT (OR BERMING OR STRAW BALES SHALL BE PROVIDED) TO ASSURE THAT RUNOFF IS CONVEYED TO THE BASINS.
- B. ANY DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED SHALL BE STABILIZED TO PREVENT EROSION. AN ACCEPTABLE STABILIZATION METHOD IS HYDROSEEDING. AREAS WHICH WILL BE REDISTURBED WITHIN 21 DAYS DO NOT HAVE TO BE STABILIZED.
- C. THE RETENTION BASINS WHICH ARE SIZED TO CONTAIN THE 100-YR STORM EVENT SHALL ALSO ACT AS THE REQUIRED SEDIMENT BASINS FOR THE PROJECT AND SHALL BE INSPECTED ON A MONTHLY BASIS AND AFTER EVERY HEAVY RAINFALL. NO FLOOD WATER AND THUS NO SEDIMENT CARRIED BY FLOOD WATER ESCAPES THESE BASINS. AS SUCH SEDIMENT SHALL BE REMOVED FROM THE BASINS AS NECESSARY TO MAINTAIN 100% OF THE REQUIRED CAPACITY OF THE BASIN DURING CONSTRUCTION.

3) STORMWATER MANAGEMENT CONTROL

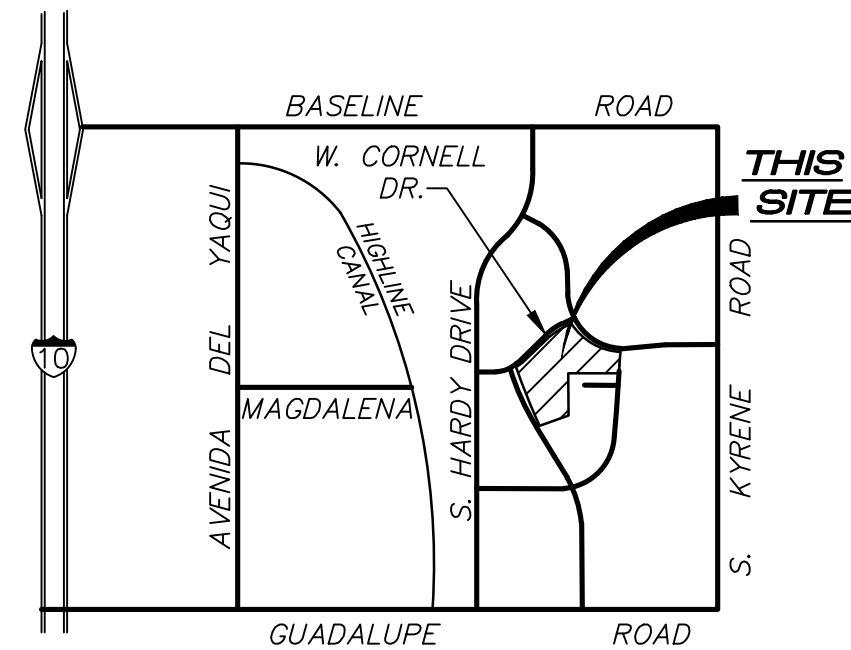
- A. THE CONTRACTOR, TOGETHER WITH THE OWNER AS COPERMITTEES, SHALL SUBMIT A NOTICE OF INTENT AT LEAST TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE EPA.
- B. THE CONTRACTOR SHALL OBTAIN A DUST CONTROL PERMIT FROM THE MARICOPA COUNTY HEALTH DEPARTMENT AND SHALL WATER THE SITE AT AN ADEQUATE FREQUENCY TO MINIMIZE AIRBORNE PARTICLES.
- C. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL RECORDS AT THE CONSTRUCTION SITE.
- D. THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF A RAINFALL OF 0.5" OR MORE. THE CONTRACTOR SHALL PREPARE A REPORT DOCUMENTING THEIR FINDINGS ON THE CONDITIONS OF THE CONTROLS AND ANY STABILIZED AREAS. THE CONTRACTOR SHALL MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY TO CORRECT ANY OBSERVED SEDIMENT OR EROSION PROBLEMS.
- E. PERMANENT LANDSCAPING AND PLACEMENT OF FINAL COVER MATERIALS SHALL OCCUR AS SOON AS PRACTICAL AFTER COMPLETION OF GRADING.
- F. THE CONTRACTOR, TOGETHER WITH THE OWNER, SHALL FILE A NOTICE OF TERMINATION WITH THE EPA AFTER COMPLETION OF ALL CONSTRUCTION AND LANDSCAPING ACTIVITIES.
- G. THE TERMS & CONDITION OF THIS PERMIT WILL BE MET.

STORM WATER MANAGEMENT PLANS
FOR
WOOD ELEMENTARY SCHOOL

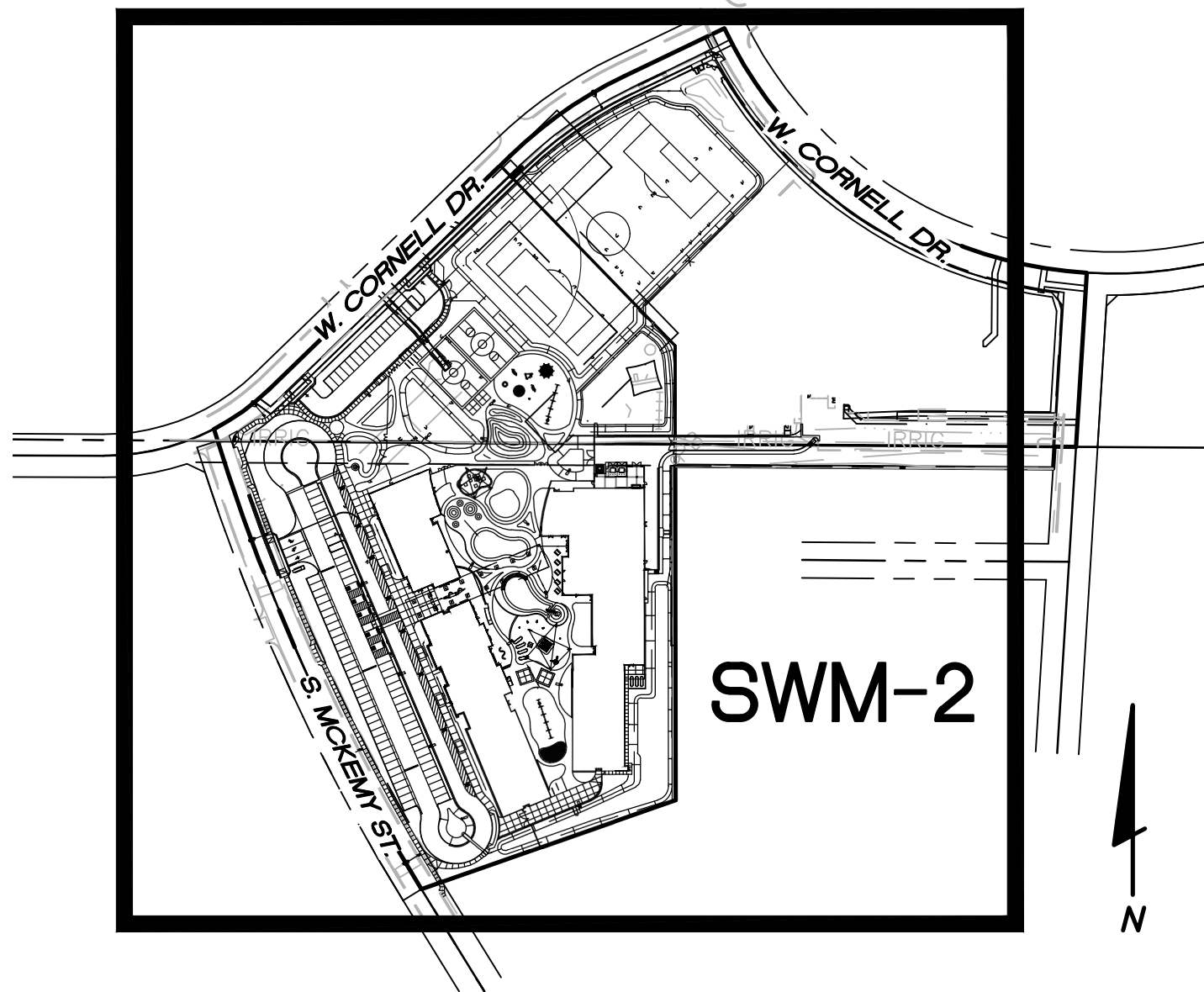
727 W. CORNELL DRIVE
TEMPE, AZ 85283
PHONE: (480) 838-0711

FOR
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

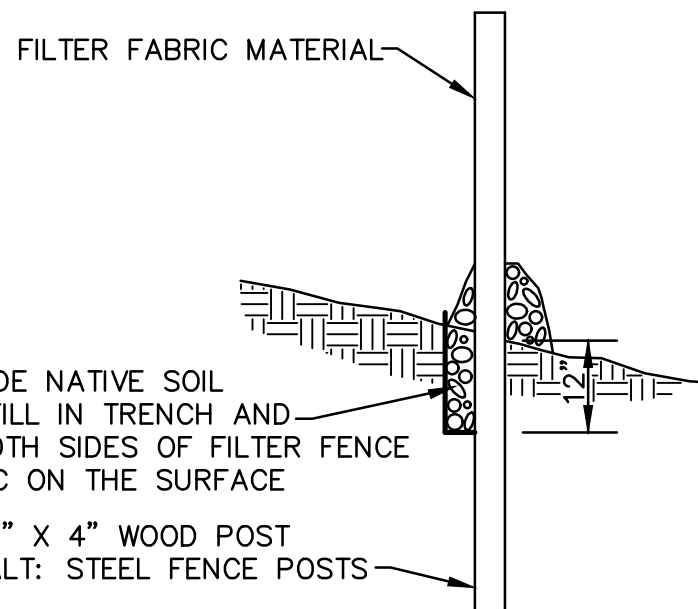
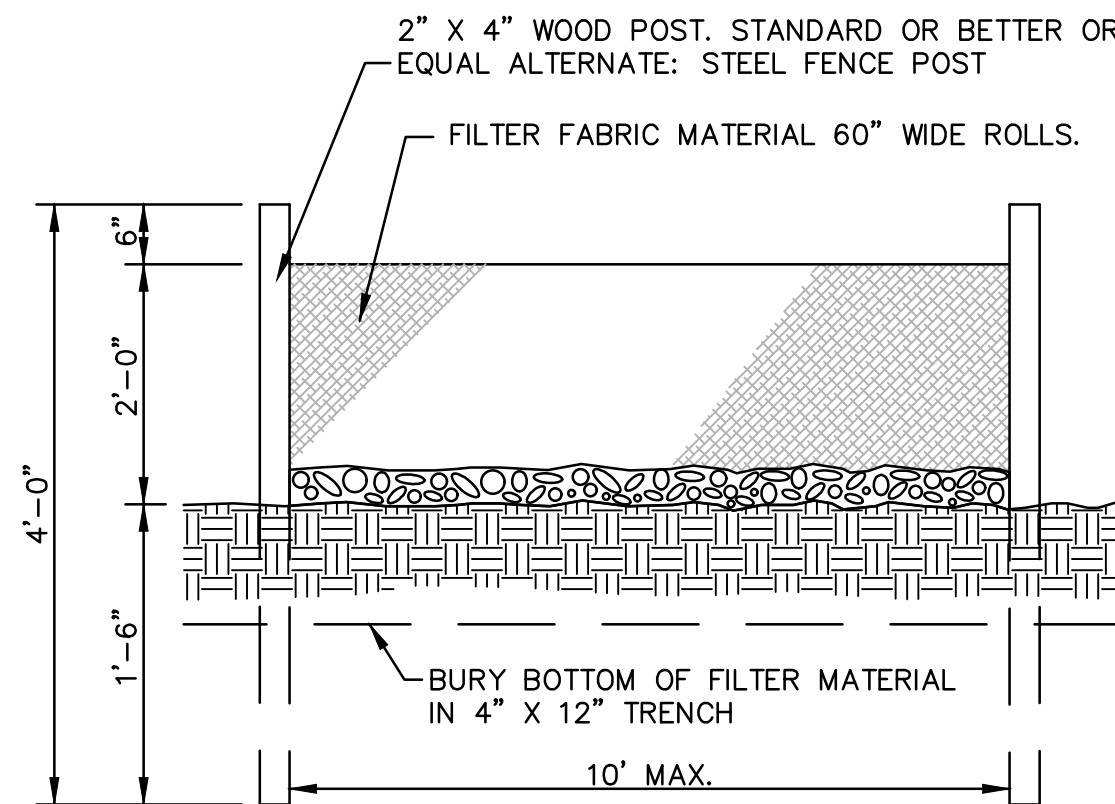
3205 S. RURAL ROAD
TEMPE, AZ 85282
PHONE: (480) 730-7100



VICINITY MAP
NOT TO SCALE



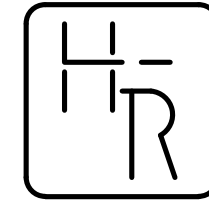
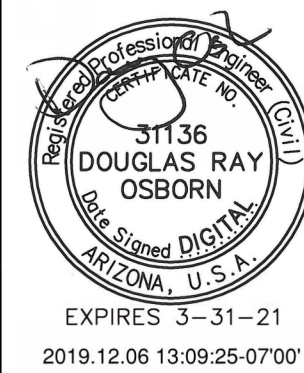
SHEET INDEX MAP
NOT TO SCALE



SILT FENCE DETAIL SPC-5
NOT TO SCALE

NOTE:

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HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES: **PM** DRN: **ANM** CKD: **DRO** JOB NO. **1902-05**

ENGINEER:

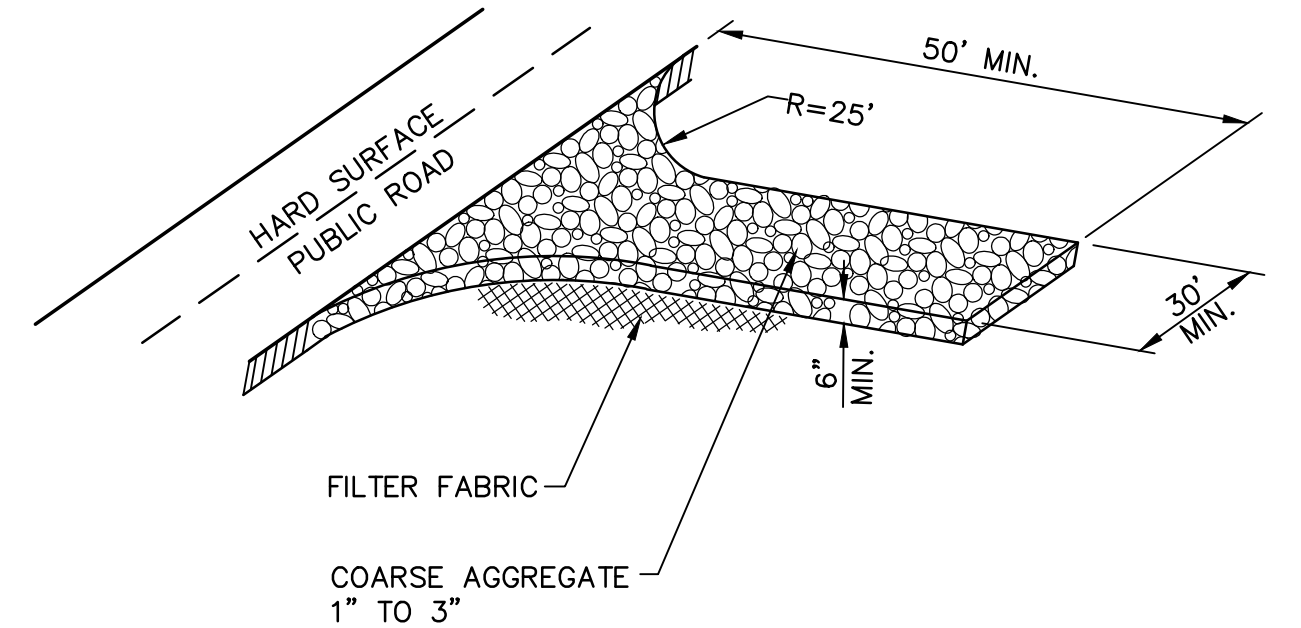
HESS-ROUNTREE, INC.
9831 S. 51st ST. STE. C110
PHOENIX, AZ 85044
PHONE: (480) 496-0244
CONTACT: DOUG OSBORN

OWNER:

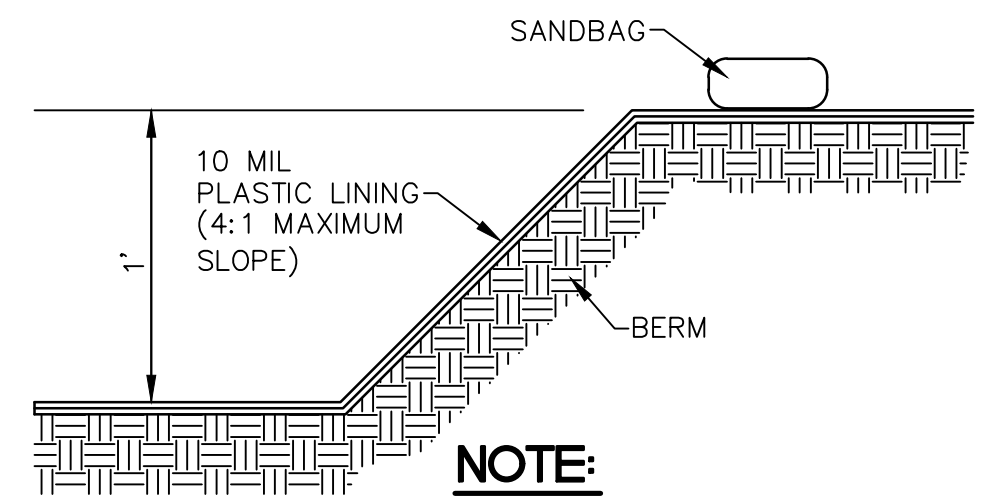
TEMPE ELEMENTARY SCHOOL
DISTRICT NO. 3
3205 S. RURAL ROAD
TEMPE, AZ 85282
PHONE: (480) 730-7100

SHEET INDEX:

SWM-1 STORM WATER MANAGEMENT PLAN
- COVER SHEET
SWM-2 STORM WATER MANAGEMENT PLAN

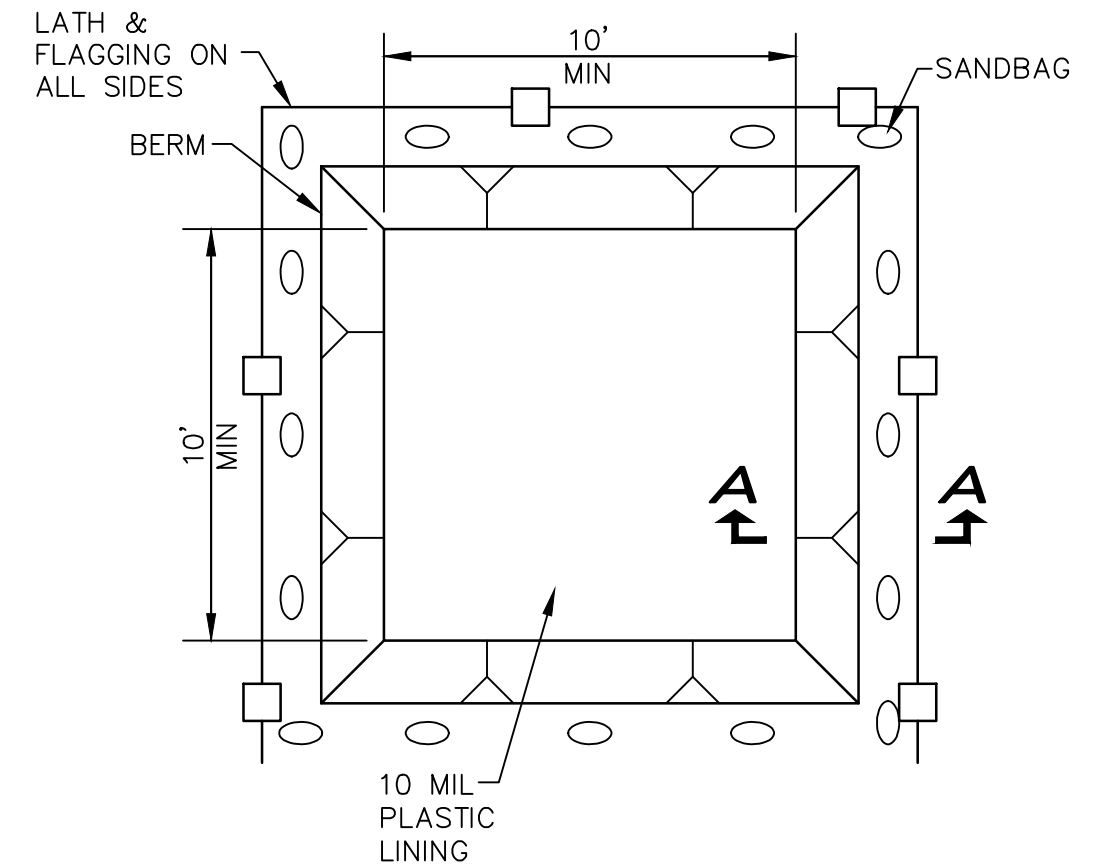


STABILIZED CONSTRUCTION
ENTRANCES ONLY (EC-5)
NOT TO SCALE



NOTE:
1. ACTUAL LAYOUT DETERMINED IN FIELD.

SECTION A-A
NOT TO SCALE



CONCRETE WASHOUT (GH-4)
NOT TO SCALE

BENCHMARK

CITY OF TEMPE BENCHMARK ID #247. FOUND CITY OF TEMPE BRASS CAP IN HANDHOLE LOCATED AT THE INTERSECTION OF HARDY DRIVE AND GUADALUPE ROAD.


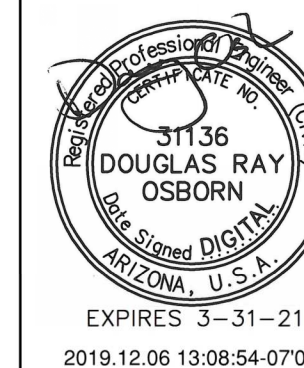
ELEVATION=1216.65 (CITY OF TEMPE NGVD29 DATUM)

STORM WATER MANAGEMENT PLANS - COVER SHEET

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	SWM-1
4TH CITY SUBMITTAL SET	31	40	
DATE: 12-06-19			

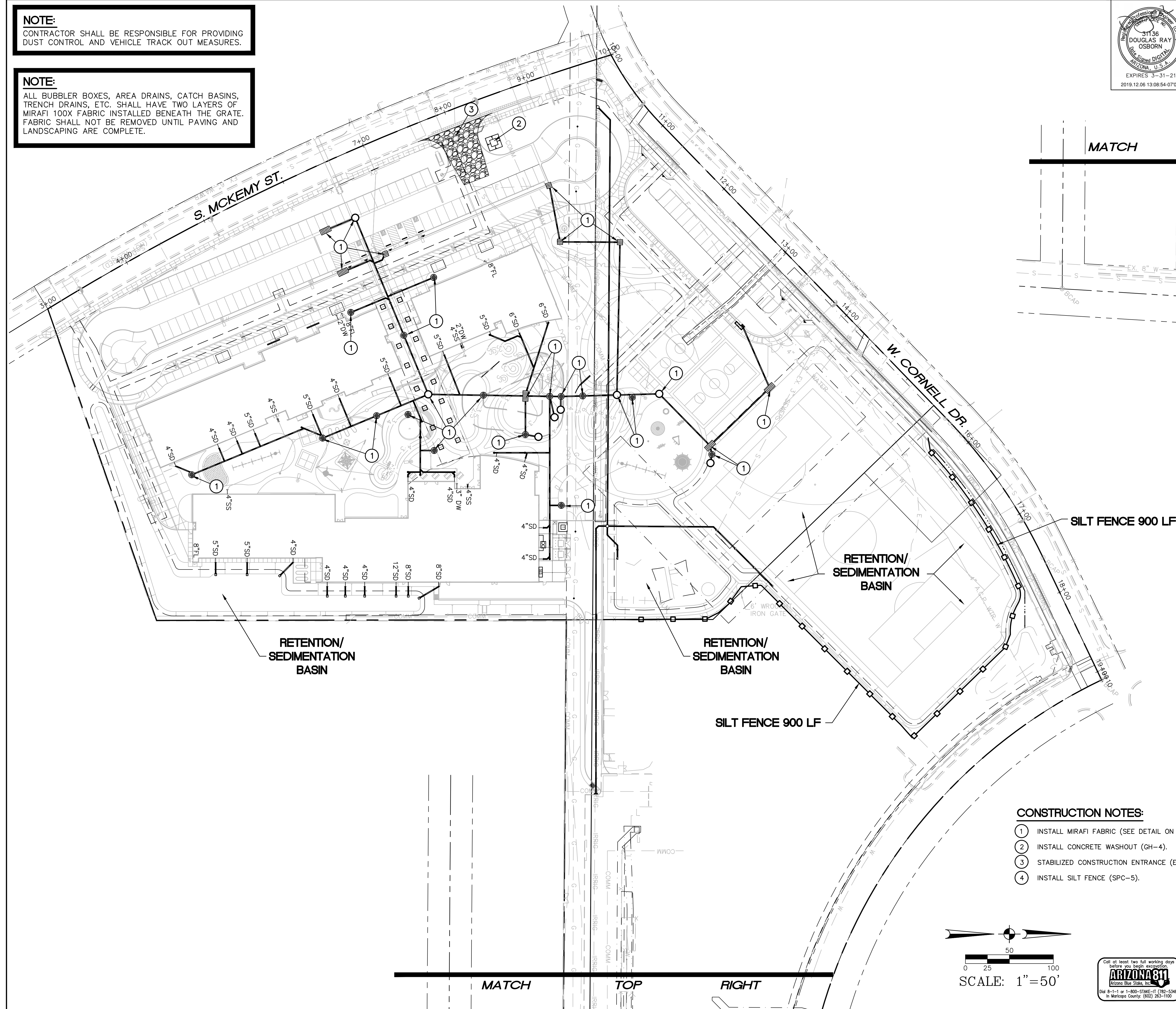
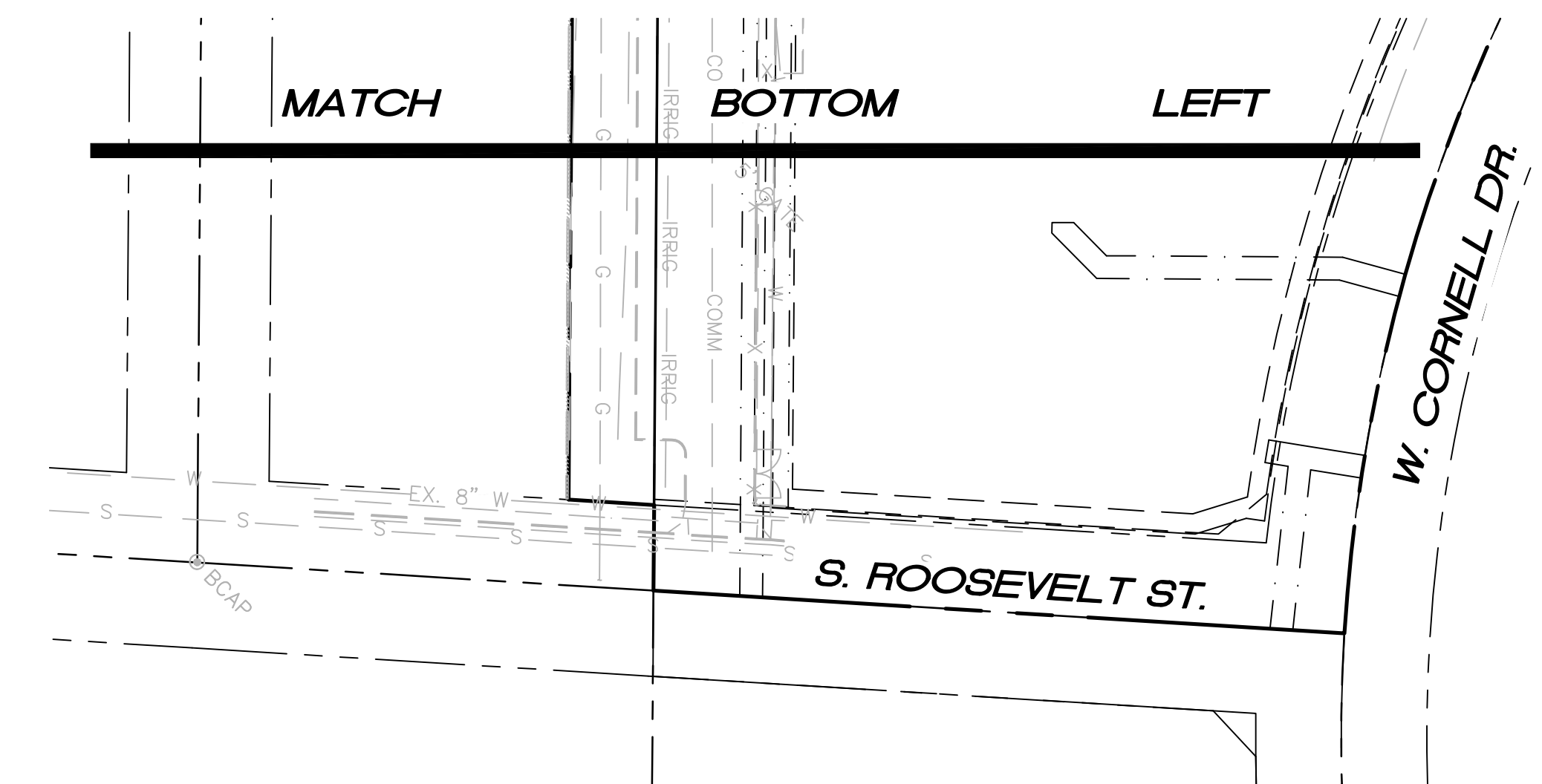


NOTE:
ALL BUBBLER BOXES, AREA DRAINS, CATCH BASINS, TRENCH DRAINS, ETC. SHALL HAVE TWO LAYERS OF MIRAFI 100X FABRIC INSTALLED BENEATH THE GRATE. FABRIC SHALL NOT BE REMOVED UNTIL PAVING AND LANDSCAPING ARE COMPLETE.












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9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. VR	DRN. ANM	CKD. DRO	JOB NO. 1902-05
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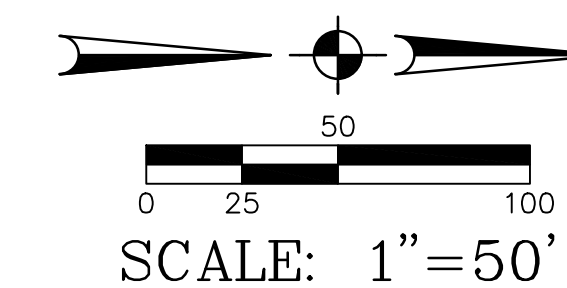


LEGEND

- | | |
|---|----------------------------------|
|  | PROPOSED SD MANHOLE |
|  | PROPOSED DOUBLE CATCH BASIN |
|  | PROPOSED CATCH BASIN |
|  | PROPOSED AREA DRAIN |
|  | DRAINAGE DIRECTION |
|  | STABILIZED CONSTRUCTION ENTRANCE |
|  | CONCRETE WASHOUT |
|  | PROPOSED STORM DRAIN PIPE |
|  | PROPOSED SILT FENCE |

CONSTRUCTION NOTES:

1. INSTALL MIRAFI FABRIC (SEE DETAIL ON SHEET SWM-1).
2. INSTALL CONCRETE WASHOUT (GH-4).
3. STABILIZED CONSTRUCTION ENTRANCE (EC-5).
4. INSTALL SILT FENCE (SPC-5).



STORM WATER MANAGEMENT PLANS

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL

DRAWING STATUS		SHEET	OF	SWM-2
4TH CITY SUBMITTAL SET		32	40	
DATE: 12-06-19				

727 W. CORNELL DRIVE

DS190962 EN190105

190205SWM2.DWG

FOUND BRASS CAP IN HANDHOLE LOCATED AT THE SOUTH QUARTER CORNER OF SECTION 4, TOWNSHIP 1 SOUTH, RANGE 4 EAST. BRASS CAP NUMBER 247

GUADALUPE ROAD

N00°04'43"W(R1)(R2)(M) 5303.34'(R1)(R2) 5303.30'(M)

N00°04'43"W(R1)(R3)(M) 2626.41'(R1) 2626.61'(C)

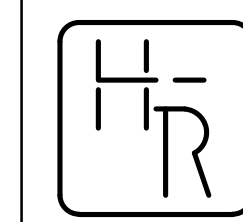
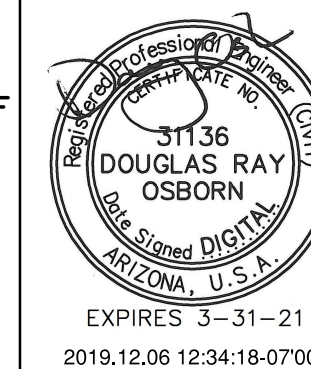
N00°04'43"W(R1)(R3)(C) 22.30'(R1)(R3)(C)

CENTER QUARTER CORNER OF SECTION 4, TOWNSHIP 1 SOUTH, RANGE 4 EAST. NOTHING FOUND, NOTHING SET.

N00°04'43"W(R1)(R2)(M) 2654.63'(R1)(R2) 2654.39'(C)

FOUND BRASS CAP IN HANDHOLE LOCATED AT THE NORTH QUARTER CORNER OF SECTION 4, TOWNSHIP 1 SOUTH, RANGE 4 EAST. BRASS CAP NUMBER 118

N00°04'43"W(R1)(R2)(M) 11.41'(R1)(R2)(M)



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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **VR** DRN. **ANM** CKD. **DRO** JOB NO. **1902-05**

BASELINE ROAD

MATCH BELOW LEFT

7' ELECTRIC EASEMENT (DOCKET NO. 14846, PAGE 996)

$\Delta=60^{\circ}54'00''(R4)(M)$
 $R=600.00'(R4)(M)$
 $L=637.74'(R4)(M)$
 $T=352.72'(M)$

W. CORNELL DR.

32' ROADWAY & PUBLIC UTILITIES EASEMENT (DOCKET NO. 14975, PAGE 801)

8' ELECTRIC EASEMENT (REC. NO. 20180223905)

30' PUBLIC UTILITIES EASEMENT (DOCKET NO. 12622, PAGE 275)

12' PUBLIC UTILITIES EASEMENT (DOCKET NO. 14975, PAGE 803)

7' ELECTRIC EASEMENT (DOCKET NO. 14846, PAGE 996)

8' ELECTRIC EASEMENT (REC. NO. 20180223905)

30' GAS EASEMENT

33' INGRESS, EGRESS, ROADWAY & UTILITIES EASEMENT (DOCKET NO. 11055, PAGE 1201)

PROPOSED 12" TEE
PROPOSED 12" TO 8" REDUCER

PROPOSED 12" TEE
PROPOSED GATE VALVE (TYP.)

PROPOSED 12" TO 8" REDUCER

2-2" EX. DOMESTIC WATER METERS TO BE REMOVED. REMOVE SERVICE UP TO CORPORATION STOP AND CAP SERVICE AT MAINLINE

PROPOSED 8" PUBLIC WATER LINE

PROPOSED 8" PUBLIC WATER LINE

PROPOSED 8" ELECTRIC EASEMENT (REC. NO. 20180223908)

9'x9.5' ELECTRIC EASEMENT (DOCKET NO. 11283, PAGE 842)

7' ELECTRIC EASEMENT (DOCKET NO. 11283, PAGE 842)

60' YARD MAINTENANCE (REC. NO. 19920072458)

60' YARD MAINTENANCE (REC. NO. 19920072458)

PROPOSED 8" TO 6" REDUCER

PROPOSED FIRE HYDRANT

PROPOSED 12" PUBLIC WATER LINE EASEMENT

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

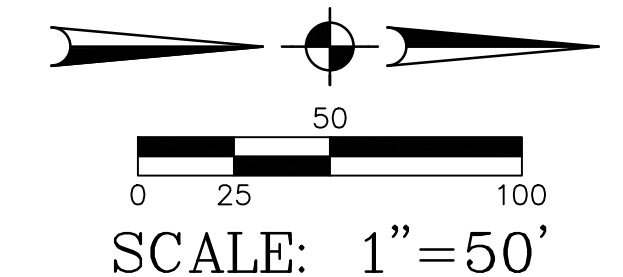
PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

PROPOSED 12" PUBLIC WATER LINE

7' ELECTRIC EASEMENT (DOCKET NO. 14846, PAGE 996)

$\Delta=60^{\circ}54'00''(R4)(M)$
 $R=600.00'(R4)(M)$
 $L=637.74'(R4)(M)$
 $T=352.72'(M)$



MASTER WATER LINE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	WL-1
4TH CITY SUBMITTAL SET	33	40	
DATE:	12-06-19		

727 W. CORNELL DRIVE
DS190362 EN190105 190205P12.DWG

UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF TEMPE AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.

OFFSITE DOMESTIC WATER LINE CONSTRUCTION NOTES:

1. INSTALL NEW 2" DOMESTIC WATER SERVICE, AND 2" WATER METER WITH METER BOX AND COVER (CITY OF TEMPE STANDARD DETAIL NO. T-212 AND T-212-A). CONTRACTOR TO COORDINATE PAYMENT OF NECESSARY FEES WITH THE OWNER AND CITY OF TEMPE.
2. INSTALL NEW 2" LANDSCAPE WATER SERVICE, AND 2" WATER METER WITH METER BOX AND COVER (CITY OF TEMPE STANDARD DETAIL NO. T-212 AND T-212-A). CONTRACTOR TO COORDINATE PAYMENT OF NECESSARY FEES WITH THE OWNER AND CITY OF TEMPE. SEE LANDSCAPE PLANS FOR INSTALLATION OF BACKFLOW PREVENTION.
3. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT. REPLACEMENT SECTION SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-450 OR REPLACE IN KIND, WHICHEVER IS GREATER.
4. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE A).
5. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR (MAG STANDARD DETAIL NO. 230).
6. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER AND COMMUNICATION LINES PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. 2' MINIMUM SEPARATION VERTICALLY FOR DRY UTILITIES.
7. COORDINATE WITH CITY OF TEMPE WATER DEPARTMENT FOR REMOVAL/ABANDONMENT OF EXISTING WATER METER AND SERVICE. REMOVE SERVICE TO CORPORATION STOP AND INSTALL WATERTIGHT CAP AT WATER MAIN.

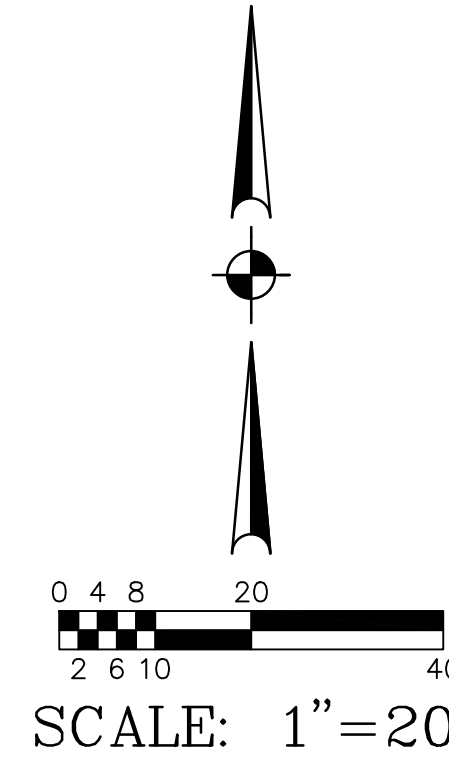
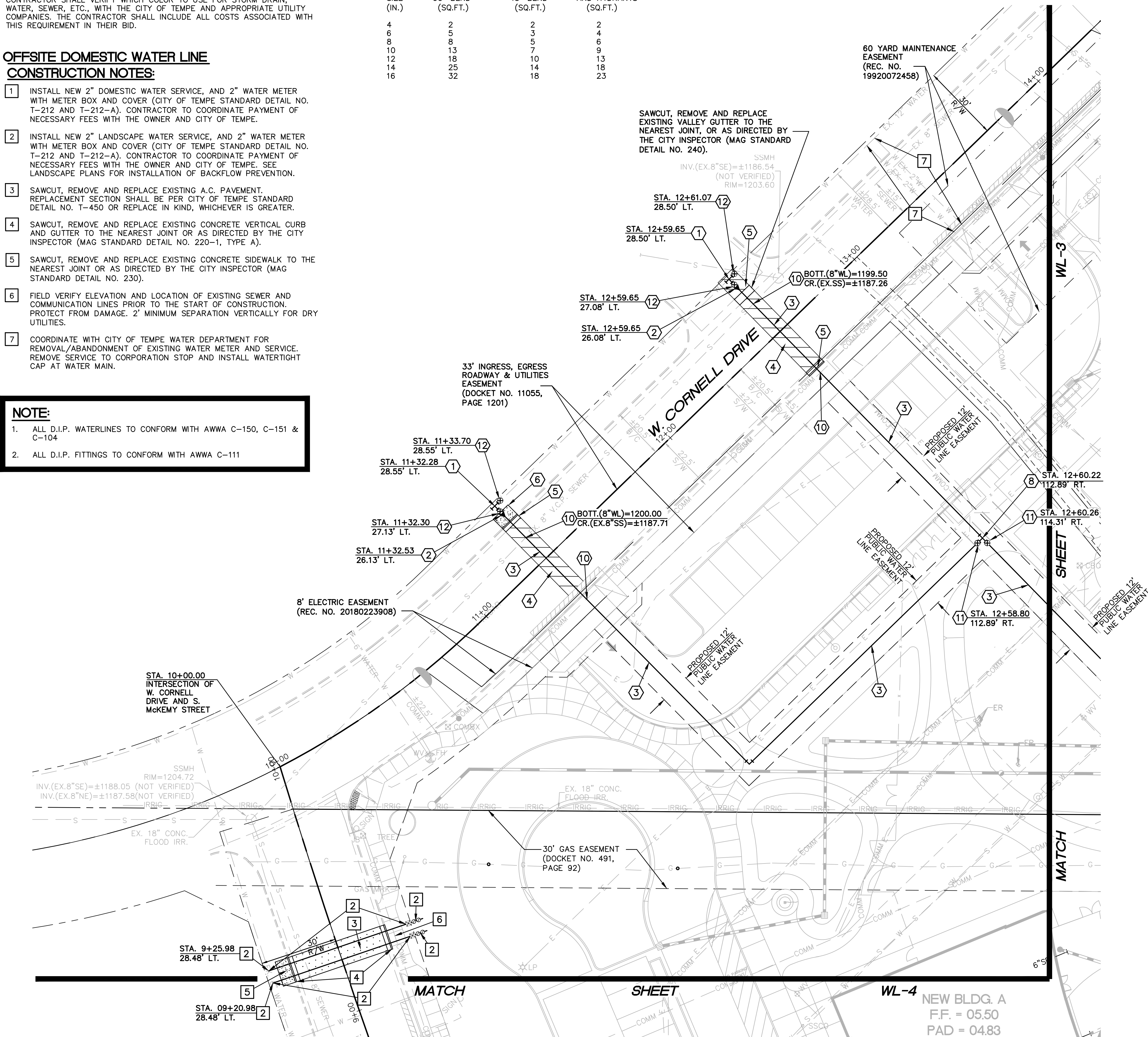
NOTE:

1. ALL D.I.P. WATERLINES TO CONFORM WITH AWWA C-150, C-151 & C-104
2. ALL D.I.P. FITTINGS TO CONFORM WITH AWWA C-111

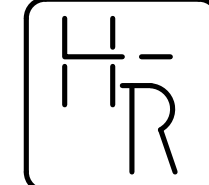
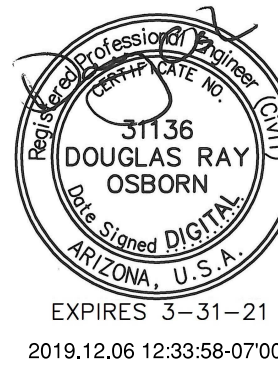
PRIVATE FIRE LINE THRUST BLOCK NOTE:

ALL PRIVATE FIRE LINE THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL PRIVATE FIRE LINE THRUST BLOCKS THE AREA OF BEARING FACE SHALL BE PER NFPA-24. THE FOLLOWING CHART IS FROM NFPA-24.

PIPE SIZE (IN.)	90° BEND (SQ.FT.)	45° BEND (SQ.FT.)	TEES, PLUGS, CAPS AND HYDRANTS (SQ.FT.)
4	2	2	2
6	5	3	4
8	8	5	6
10	13	7	9
12	18	10	13
14	25	14	18
16	32	18	23



REVISED (11-12-19)



HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

PUBLIC WATER LINE CONSTRUCTION NOTES:

1. INSTALL 12" TEE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY SIZE, ELEVATION, LOCATION AND TYPE OF MATERIAL OF THE EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
2. INSTALL 12" TO 8" REDUCER.
3. INSTALL 8" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
4. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT. REPLACEMENT SECTION SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-450 OR REPLACE IN KIND, WHICHEVER IS GREATER.
5. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE A).
6. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 230).
7. INSTALL 8" - 45° BEND.
8. INSTALL 8" TEE.
9. INSTALL 8" X 6" TEE.
10. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER AND/OR COMMUNICATION LINES PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. 2' MINIMUM SEPARATION VERTICALLY FOR DRY UTILITIES.
11. INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
12. INSTALL 12" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
13. INSTALL 6" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350, CLASS 52) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
14. INSTALL FIRE HYDRANT (MAG STANDARD DETAIL NO.'S 360-1 AND 360-3).
15. INSTALL 8" - 90° BEND.
16. INSTALL 6" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
17. INSTALL 6" TEE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY SIZE, ELEVATION, LOCATION AND TYPE OF MATERIAL OF THE EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
18. INSTALL 8" TO 6" REDUCER.
19. INSTALL 8" - 22.5° BEND.
20. VERTICALLY REALIGN WATER LINE TO GO BENEATH EXISTING COMMUNICATION LINE WITH A MINIMUM OF 2-FOOT SEPARATION BETWEEN PIPES (MAG STANDARD DETAIL NO. 370).

ONSITE PRIVATE FIRE LINE CONSTRUCTION NOTES:

1. INSTALL 8" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
2. SEE PLUMBING AND FIRE SPRINKLER DRAWINGS FOR CONTINUATION.
3. DOUBLE CHECK VALVE BACKFLOW PREVENTION ON RISER, PER CITY OF TEMPE DETAIL NO. T-217. SEE PLUMBING AND FIRE SPRINKLER DRAWINGS.
4. INSTALL 8" - 45° BEND.

NOTE:

ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

WATER LINE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	WL-2
4TH CITY SUBMITTAL SET			
	34	40	
DATE: 12-06-19			

727 W. CORNELL DRIVE DS190362 EN190105 190205P103.DWG

PRIVATE FIRE LINE THRUST BLOCK NOTE:

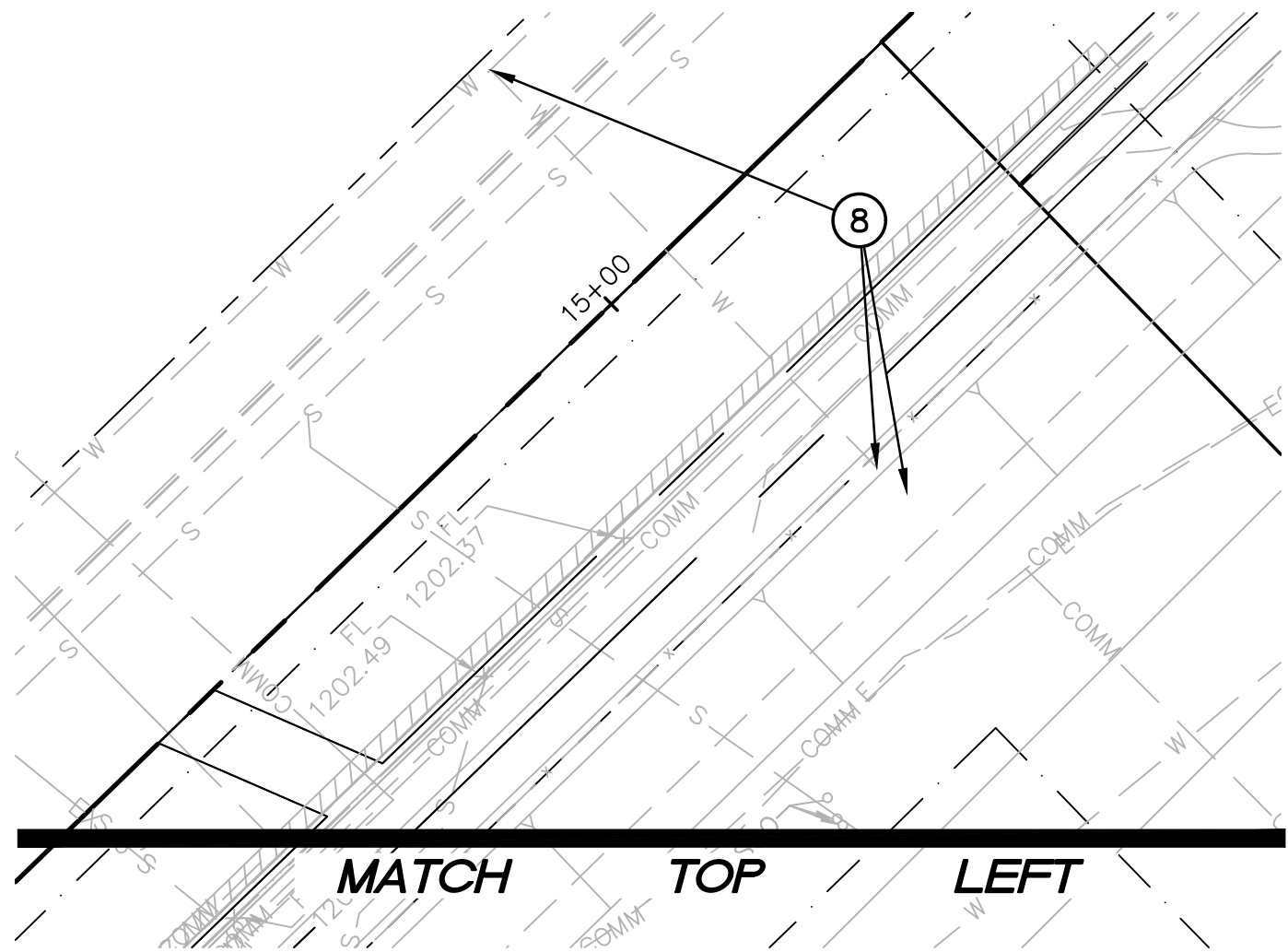
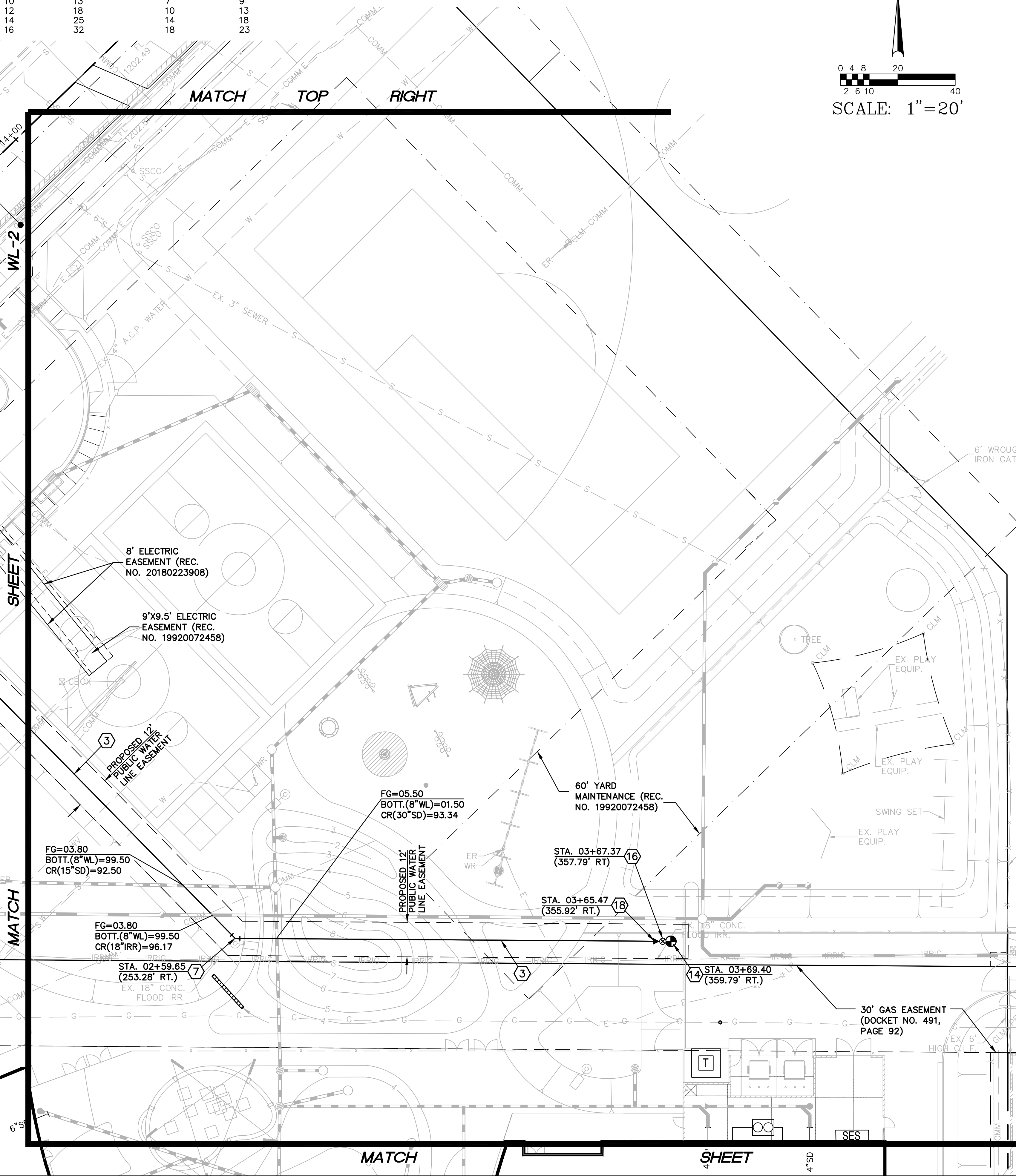
ALL PRIVATE FIRE LINE THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL PRIVATE FIRE LINE THRUST BLOCKS THE AREA OF BEARING FACE SHALL BE PER NFPA-24. THE FOLLOWING CHART IS FROM NFPA-24.

PIPE SIZE (IN.)	90° BEND (SQ.FT.)	45° BEND (SQ.FT.)	TEES, PLUGS, CAPS AND HYDRANTS (SQ.FT.)
4	2	2	2
6	5	3	4
8	8	5	6
10	13	7	9
12	18	10	13
14	25	14	18
16	32	18	23

NOTE:

ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

0 4 8 20
2 6 10 40
SCALE: 1"=20'



OFFSITE DOMESTIC WATER LINE CONSTRUCTION NOTES:

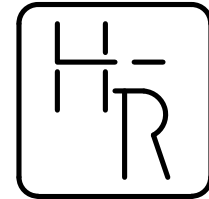
1. INSTALL NEW 2" DOMESTIC WATER SERVICE, AND 2" WATER METER WITH METER BOX AND COVER (CITY OF TEMPE STANDARD DETAIL NO. T-212 AND T-212-A). CONTRACTOR TO COORDINATE PAYMENT OF NECESSARY FEES WITH THE OWNER AND CITY OF TEMPE.
2. INSTALL NEW 2" LANDSCAPE WATER SERVICE, AND 2" WATER METER WITH METER BOX AND COVER (CITY OF TEMPE STANDARD DETAIL NO. T-212 AND T-212-A). CONTRACTOR TO COORDINATE PAYMENT OF NECESSARY FEES WITH THE OWNER AND CITY OF TEMPE. SEE LANDSCAPE PLANS FOR INSTALLATION OF BACKFLOW PREVENTION.
3. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT. REPLACEMENT SECTION SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-450 OR REPLACE IN KIND, WHICHEVER IS GREATER.
4. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE A).
5. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR (MAG STANDARD DETAIL NO. 230).
6. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER AND COMMUNICATION LINES PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. 2" MINIMUM SEPARATION VERTICALLY FOR DRY UTILITIES.
7. COORDINATE WITH CITY OF TEMPE WATER DEPARTMENT FOR REMOVAL/ABANDONMENT OF EXISTING WATER METER AND SERVICE. REMOVE SERVICE TO CORPORATION STOP AND INSTALL WATERTIGHT CAP AT WATER MAIN.

NOTE:

1. ALL D.I.P. WATERLINES TO CONFORM WITH AWWA C-150, C-151 & C-104
2. ALL D.I.P. FITTINGS TO CONFORM WITH AWWA C-111

UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF TEMPE AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.



HESS - ROUNTREE, INC.
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9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

PUBLIC WATER LINE CONSTRUCTION NOTES:

1. INSTALL 12" TEE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY SIZE, ELEVATION, LOCATION AND TYPE OF MATERIAL OF THE EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
2. INSTALL 12" TO 8" REDUCER.
3. INSTALL 8" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
4. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT. REPLACEMENT SECTION SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-450 OR REPLACE IN KIND, WHICHEVER IS GREATER.
5. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE A).
6. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 230).
7. INSTALL 8" - 45° BEND.
8. INSTALL 8" TEE.
9. INSTALL 8" X 6" TEE.
10. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER AND/OR COMMUNICATION LINES PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. 2" MINIMUM SEPARATION VERTICALLY FOR DRY UTILITIES.
11. INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
12. INSTALL 12" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
13. INSTALL 6" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350, CLASS 52) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
14. INSTALL FIRE HYDRANT (MAG STANDARD DETAIL NO.'S 360-1 AND 360-3).
15. INSTALL 8" - 90° BEND.
16. INSTALL 6" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
17. INSTALL 6" TEE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY SIZE, ELEVATION, LOCATION AND TYPE OF MATERIAL OF THE EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
18. INSTALL 8" TO 6" REDUCER.
19. INSTALL 8" - 22.5° BEND.
20. VERTICALLY REALIGN WATER LINE TO GO BENEATH EXISTING COMMUNICATION LINE WITH A MINIMUM OF 2-FOOT SEPARATION BETWEEN PIPES (MAG STANDARD DETAIL NO. 370).

ONSITE PRIVATE FIRE LINE CONSTRUCTION NOTES:

1. INSTALL 8" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
2. SEE PLUMBING AND FIRE SPRINKLER DRAWINGS FOR CONTINUATION.
3. DOUBLE CHECK VALVE BACKFLOW PREVENTION ON RISER, PER CITY OF TEMPE DETAIL NO. T-217. SEE PLUMBING AND FIRE SPRINKLER DRAWINGS.
4. INSTALL 8" - 45° BEND.

WATER LINE PLAN

TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

IMPROVEMENT PLANS FOR
WOOD ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET	35	40	WL-3
DATE:	12-06-19		



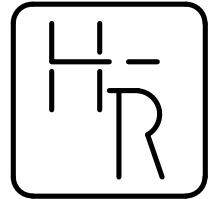
REVISED (11-12-19)

727 W. CORNELL DRIVE

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PHOENIX, ARIZONA 85044 (480)496-0244

DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

OFFSITE DOMESTIC WATER LINE CONSTRUCTION NOTES:

1. INSTALL NEW 2" DOMESTIC WATER SERVICE, AND 2" WATER METER WITH METER BOX AND COVER (CITY OF TEMPE STANDARD DETAIL NO. T-212 AND T-212-A). CONTRACTOR TO COORDINATE PAYMENT OF NECESSARY FEES WITH THE OWNER AND CITY OF TEMPE.
2. INSTALL NEW 2" LANDSCAPE WATER SERVICE, AND 2" WATER METER WITH METER BOX AND COVER (CITY OF TEMPE STANDARD DETAIL NO. T-212 AND T-212-A). CONTRACTOR TO COORDINATE PAYMENT OF NECESSARY FEES WITH THE OWNER AND CITY OF TEMPE. SEE LANDSCAPE PLANS FOR INSTALLATION OF BACKFLOW PREVENTION.
3. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT. REPLACEMENT SECTION SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-450 OR REPLACE IN KIND, WHICHEVER IS GREATER.
4. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE A).
5. SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE CITY INSPECTOR (MAG STANDARD DETAIL NO. 230).
6. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER AND COMMUNICATION LINES PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. 2' MINIMUM SEPARATION VERTICALLY FOR DRY UTILITIES.
7. COORDINATE WITH CITY OF TEMPE WATER DEPARTMENT FOR REMOVAL/ABANDONMENT OF EXISTING WATER METER AND SERVICE. REMOVE SERVICE TO CORPORATION STOP AND INSTALL WATERTIGHT CAP AT WATER MAIN.

DOMESTIC WATER LINE CONSTRUCTION NOTES:

1. INSTALL 3" COPPER TYPE 'K' WATER LINE.
2. INSTALL 3" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
3. INSTALL 4" COPPER TYPE 'K' WATER LINE.
4. INSTALL 4" P.V.C. (RING-TITE, CLASS 200) WATER LINE INCLUDING ALL CAST IRON BENDS, TEES, FITTINGS AND CONCRETE THRUST BLOCKS.
5. INSTALL 3" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS, TEES, FITTINGS AND CONCRETE THRUST BLOCKS.
6. CONNECT TO BUILDING DOMESTIC WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
7. INSTALL 2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS, TEES, FITTINGS AND CONCRETE THRUST BLOCKS.
8. INSTALL 4" TO 2" REDUCER.
9. INSTALL 4" X 4" X 2" TEE.
10. INSTALL 2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
11. INSTALL 4" TO 3" REDUCER.
12. INSTALL 4" - 90° BEND
13. INSTALL 2" COPPER TYPE 'K' WATER LINE.
14. INSTALL 2" REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTION ASSEMBLY (CITY OF TEMPE STANDARD DETAIL NO. T-213) AND CONTINUATION OF DOMESTIC WATER LINE. VERIFY BACKFLOW PREVENTER TYPE WITH CITY OF TEMPE. INSTALL LIFT OFF GUARDSHACK ENCLOSURE MODEL GS-3.3(16"W X 30"H X 30"L), OR ENGINEER APPROVED EQUAL ON A 4" THICK CLASS "B" CONCRETE PAD (VERIFY WITH CITY THAT IT MEETS THEIR STANDARDS).
15. INSTALL 4" TEE.

DOMESTIC WATER LINE THRUST BLOCK NOTE:

ALL THRUST BLOCKS IN THE RIGHT-OF-WAY OR EASEMENT SHALL BE PER M.A.G. S.D. NO. 380. ALL THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL ONSITE DOMESTIC WATER LINE, THRUST BLOCKS SHALL BE INSTALLED AT ALL; CHANGES IN DIRECTION AS AT TEES AND BENDS, CHANGES IN SIZE AS AT REDUCERS, STOPS AS AT DEAD ENDS AND VALVES. THRUST BLOCK SIZING AND INSTALLATION SHALL FOLLOW IAPMO INSTALL STANDARD 8-92 OF THE ARIZONA STATE PLUMBING CODE, WHICH IS BASED ON THE 94 UPC WITH AMENDMENTS.

NOTE:

1. ALL D.I.P. WATERLINES TO CONFORM WITH AWWA C-150, C-151 & C-104
2. ALL D.I.P. FITTINGS TO CONFORM WITH AWWA C-111

PUBLIC WATER LINE CONSTRUCTION NOTES:

1. INSTALL 12" TEE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY SIZE, ELEVATION, LOCATION AND TYPE OF MATERIAL OF THE EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
2. INSTALL 12" TO 8" REDUCER.
3. INSTALL 8" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
4. SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT. REPLACEMENT SECTION SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-450 OR REPLACE IN KIND, WHICHEVER IS GREATER.
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7. INSTALL 8" - 45° BEND.
8. INSTALL 8" TEE.
9. INSTALL 8" X 6" TEE.
10. FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER AND/OR COMMUNICATION LINES PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. 2' MINIMUM SEPARATION VERTICALLY FOR DRY UTILITIES.
11. INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
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13. INSTALL 6" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350, CLASS 52) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
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2. SEE PLUMBING AND FIRE SPRINKLER DRAWINGS FOR CONTINUATION.
3. DOUBLE CHECK VALVE BACKFLOW PREVENTION ON RISER, PER CITY OF TEMPE DETAIL NO. T-217. SEE PLUMBING AND FIRE SPRINKLER DRAWINGS.
4. INSTALL 8" - 45° BEND.

UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF TEMPE AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.

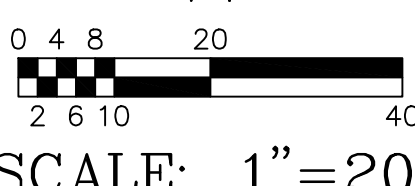
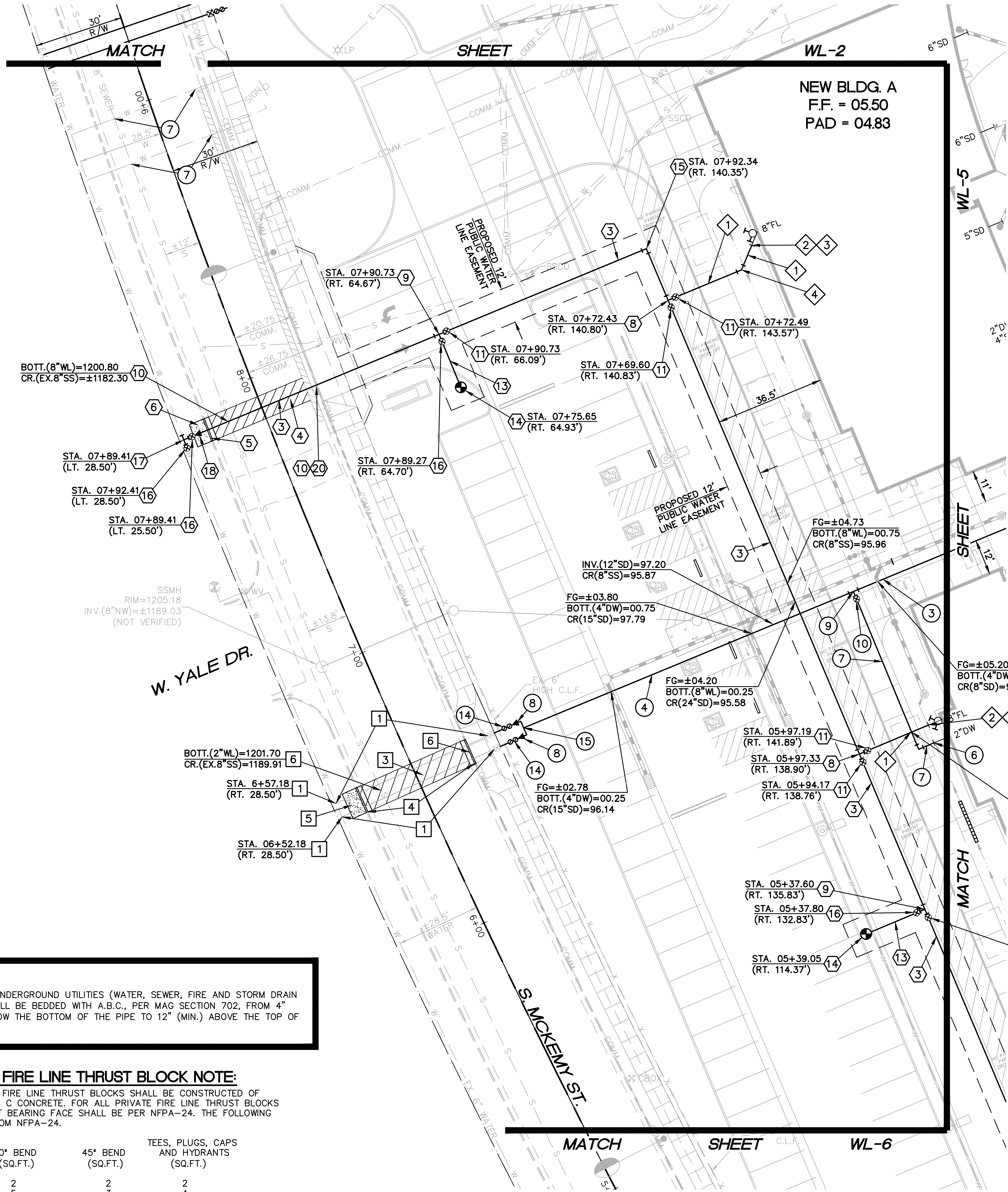
WATER LINE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	WL-4
4TH CITY SUBMITTAL SET			
	36	40	
DATE:	12-06-19		

NOTE:
ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

PRIVATE FIRE LINE THRUST BLOCK NOTE:

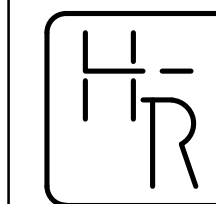
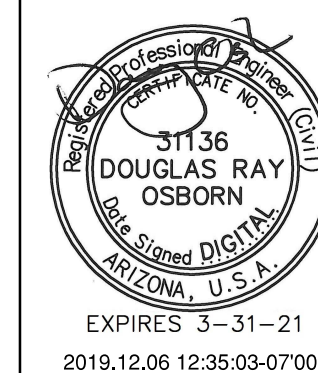
ALL PRIVATE FIRE LINE THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL PRIVATE FIRE LINE THRUST BLOCKS THE AREA OF BEARING FACE SHALL BE PER NFPA-24. THE FOLLOWING CHART IS FROM NFPA-24.

PIPE SIZE (IN.)	90° BEND (SQ.FT.)	45° BEND (SQ.FT.)	TEES, PLUGS, CAPS AND HYDRANTS (SQ.FT.)
4	2	2	2
6	5	3	4
8	8	5	6
10	13	7	9
12	18	10	13
14	25	14	18
16	32	18	23



REVISED (11-12-19)





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DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

DOMESTIC WATER LINE CONSTRUCTION NOTES:

1. INSTALL 3" COPPER TYPE 'K' WATER LINE.
2. INSTALL 3" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
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8. INSTALL 4" TO 2" REDUCER.
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10. INSTALL 2" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO. 391-1, TYPE "C").
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12. INSTALL 4" - 90° BEND
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15. INSTALL 4" TEE.

NOTE:

1. ALL D.I.P. WATERLINES TO CONFORM WITH AWWA C-150, C-151 & C-104
2. ALL D.I.P. FITTINGS TO CONFORM WITH AWWA C-111

**DOMESTIC WATER LINE
THRUST BLOCK NOTE:**

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UNDERGROUND UTILITY TRACER WIRE NOTE:

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NOTE:

ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

WATER LINE PLAN

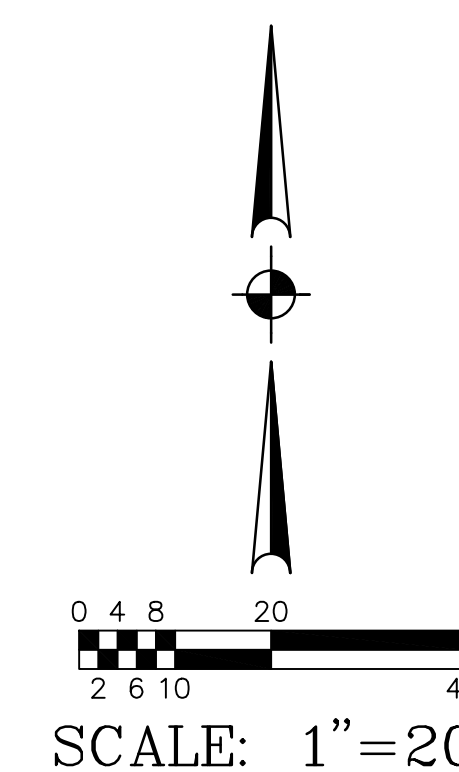
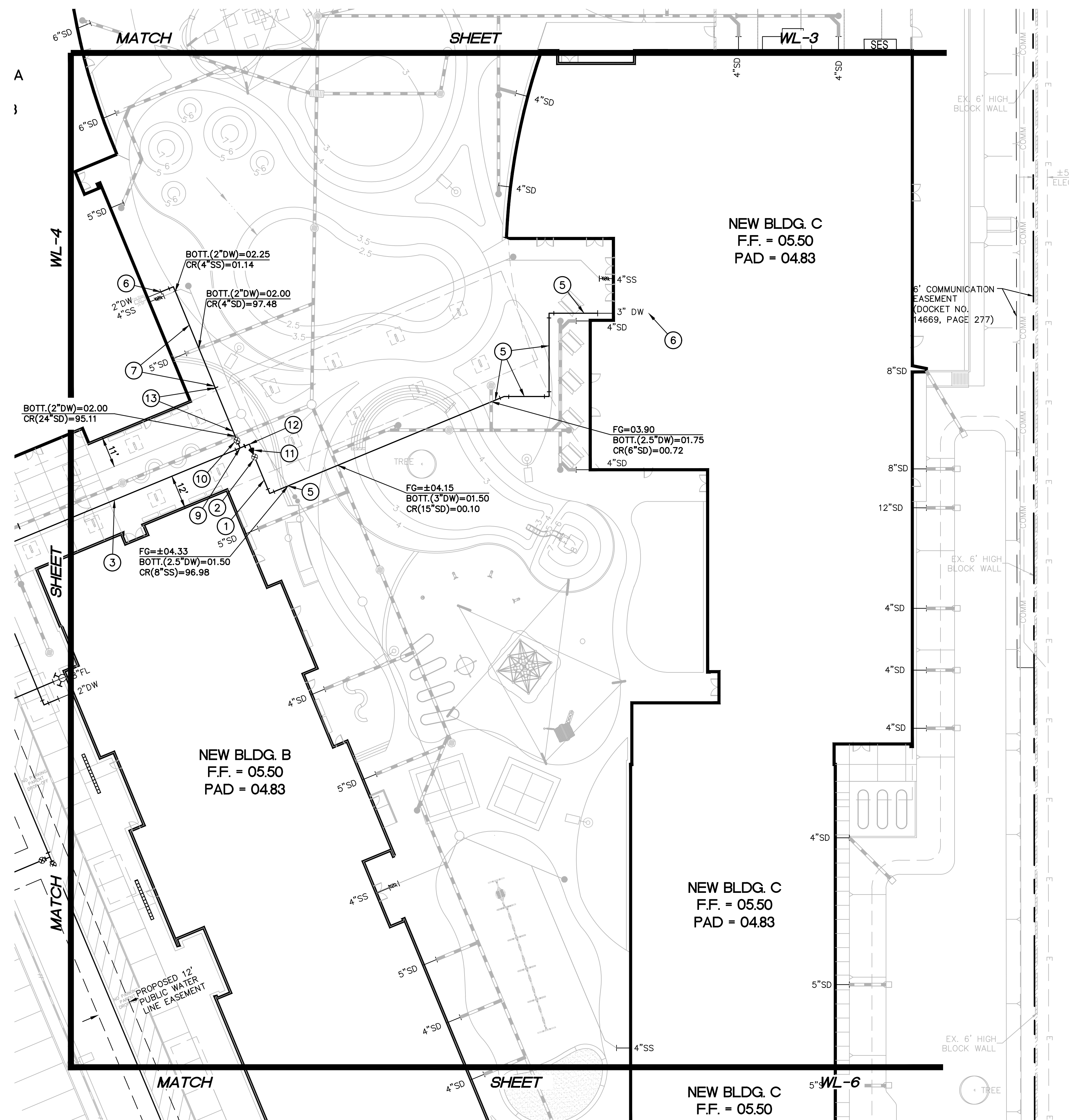
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3

**IMPROVEMENT PLANS FOR
WOOD ELEMENTARY SCHOOL**

DRAWING STATUS	SHEET	OF	
4TH CITY SUBMITTAL SET			
	37	40	WL-5
DATE:	12-06-19		



REVISED (11-12-19)



727 W. CORNELL DRIVE

DS190362 EN19105

190205P16.DWG

PRIVATE FIRE LINE THRUST BLOCK NOTE:

ALL PRIVATE FIRE LINE THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL PRIVATE FIRE LINE THRUST BLOCKS THE AREA OF BEARING FACE SHALL BE PER NFPA-24. THE FOLLOWING CHART IS FROM NFPA-24.

PIPE SIZE (IN.)	90° BEND (SQ.FT.)	45° BEND (SQ.FT.)	TEES, PLUGS, CAPS AND HYDRANTS (SQ.FT.)
4	2	2	2
6	5	3	4
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UNDERGROUND UTILITY TRACER WIRE NOTE:

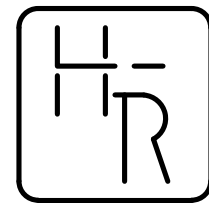
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NOTE:

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- ALL D.I.P. FITTINGS TO CONFORM WITH AWWA C-111



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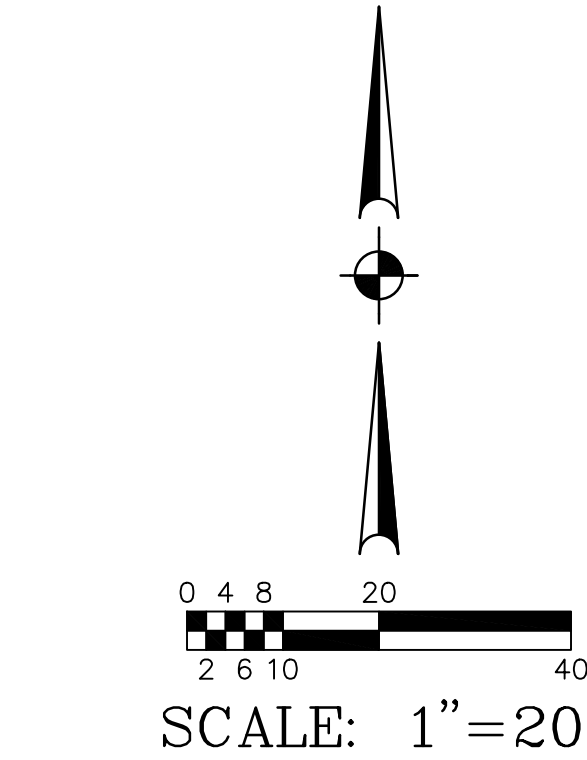
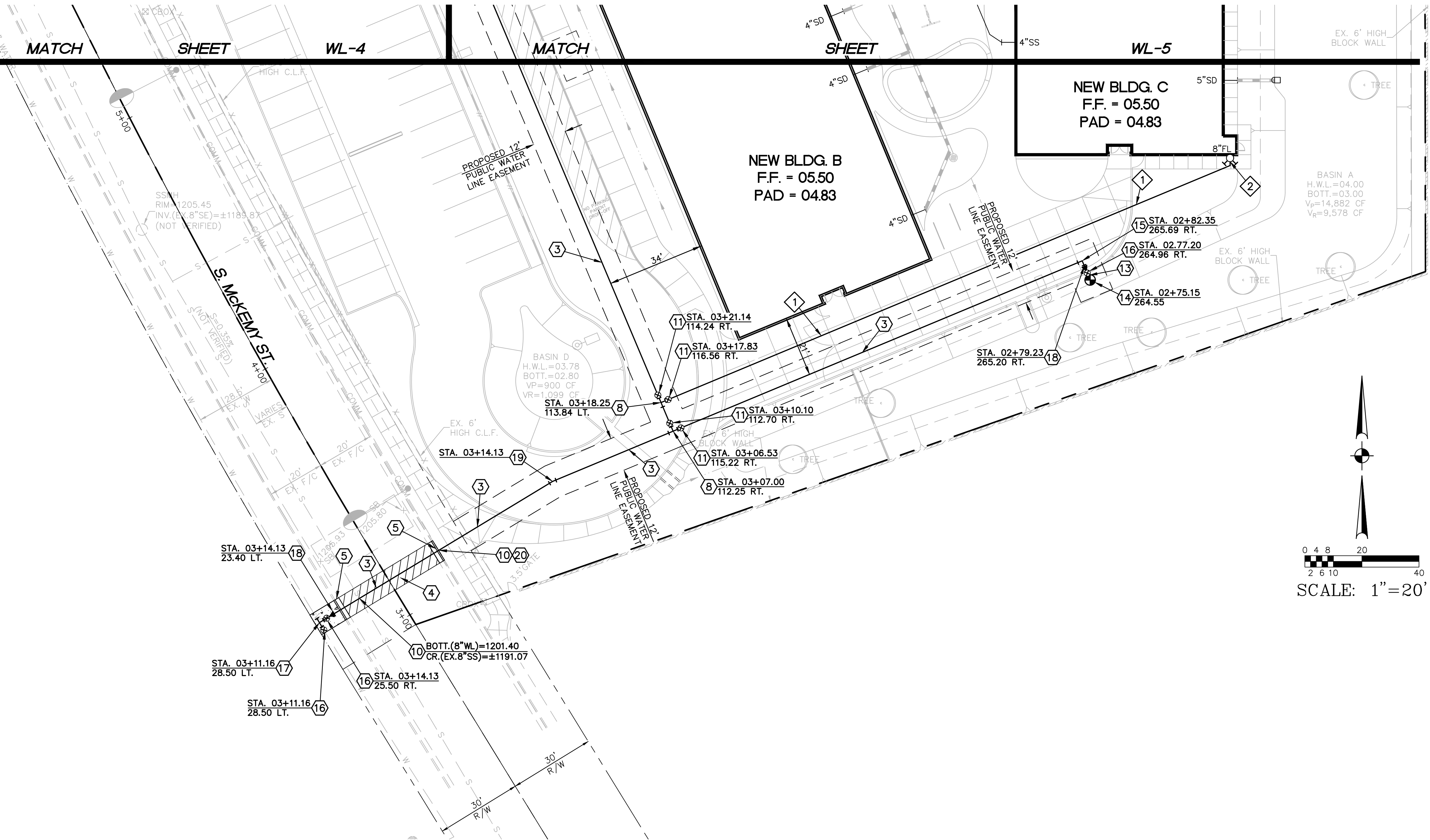
DES. **PM** DRN. **ANM** CKD **DRO** JOB NO. **1902-05**

PUBLIC WATER LINE CONSTRUCTION NOTES:

- INSTALL 12" TEE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY SIZE, ELEVATION, LOCATION AND TYPE OF MATERIAL OF THE EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
- INSTALL 12" TO 8" REDUCER.
- INSTALL 8" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
- SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT. REPLACEMENT SECTION SHALL BE PER CITY OF TEMPE STANDARD DETAIL NO. T-450 OR REPLACE IN KIND, WHICHEVER IS GREATER.
- SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO THE NEAREST JOINT OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE A).
- SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 230).
- INSTALL 8" - 45° BEND.
- INSTALL 8" TEE.
- INSTALL 8" X 6" TEE.
- FIELD VERIFY ELEVATION AND LOCATION OF EXISTING SEWER AND/OR COMMUNICATION LINES PRIOR TO THE START OF CONSTRUCTION. PROTECT FROM DAMAGE. 2' MINIMUM SEPARATION VERTICALLY FOR DRY UTILITIES.
- INSTALL 8" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
- INSTALL 12" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
- INSTALL 6" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350, CLASS 52) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
- INSTALL FIRE HYDRANT (MAG STANDARD DETAIL NO.'S 360-1 AND 360-3).
- INSTALL 8" - 90° BEND.
- INSTALL 6" GATE VALVE WITH VALVE BOX AND COVER WITH CHAIN ATTACHMENT (MAG STANDARD DETAIL NO. 391-1, TYPE "C" AND MAG STANDARD DETAIL NO. 270).
- INSTALL 6" TEE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY SIZE, ELEVATION, LOCATION AND TYPE OF MATERIAL OF THE EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
- INSTALL 8" TO 6" REDUCER.
- INSTALL 8" - 22.5° BEND.
- VERTICALLY REALIGN WATER LINE TO GO BENEATH EXISTING COMMUNICATION LINE WITH A MINIMUM OF 2-FOOT SEPARATION BETWEEN PIPES (MAG STANDARD DETAIL NO. 370).

ONSITE PRIVATE FIRE LINE CONSTRUCTION NOTES:

- INSTALL 8" POLYWRAPPED DUCTILE IRON (PRESSURE CLASS 350) WATER LINE INCLUDING ALL BENDS, TEES, FITTINGS AND THRUST BLOCKS. INSTALL HIGH-DENSITY POLYETHYLENE PER MAG SPECIFICATION SECTION 610.
- SEE PLUMBING AND FIRE SPRINKLER DRAWINGS FOR CONTINUATION.
- DOUBLE CHECK VALVE BACKFLOW PREVENTION ON RISER, PER CITY OF TEMPE DETAIL NO. T-217. SEE PLUMBING AND FIRE SPRINKLER DRAWINGS.
- INSTALL 8" - 45° BEND.



REVISED (11-12-19)



WATER LINE PLAN			
TEMPE ELEMENTARY SCHOOL DISTRICT NO. 3			
IMPROVEMENT PLANS FOR WOOD ELEMENTARY SCHOOL			
DRAWING STATUS	SHEET	OF	WL-6
4TH CITY SUBMITTAL SET	38	40	
DATE: 12-06-19			

727 W. CORNELL DRIVE

DS190962

EN190105

190205P17.DWG

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GENERAL NOTES

THE NOTES IN THIS SECTION APPLY TO ALL OTHER NOTE SECTIONS AND ARE COMPILED HERE FOR CONVENIENCE:

1. ALL CONSTRUCTION UNDER THE PUBLIC WORKS PERMIT SHALL CONFORM TO THE MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS AND DETAILS (MAG SPECIFICATIONS AND DETAILS), CITY OF TEMPE SUPPLEMENT TO THE MAG SPECIFICATIONS AND DETAILS, AND TEMPE TRAFFIC BARRICADE MANUAL.
2. A PERMIT ISSUED BY THE ENGINEERING DIVISION SHALL BE REQUIRED FOR ALL WORK IN THE CITY OF TEMPE RIGHTS OF WAY.
3. THE ENGINEERING DIVISION SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING THE DIFFERENT PHASES OF CONSTRUCTION FOR SCHEDULING INSPECTIONS.
4. RIGHT OF WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
5. LOCATION OF ALL WATER VALVES, MANHOLES, AND CLEANOUTS MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE WATER AND WASTEWATER DIVISION.
6. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS AND ALL SURVEY MONUMENTS ARE INSTALLED ACCORDING TO THE PLANS.
7. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION, UTILITY RELOCATION, CONSTRUCTION STAKING, OR AS-BUILTS.
8. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) 48 HOURS PRIOR TO CONSTRUCTION.
9. ALL EXISTING STREET MONUMENTATION MUST BE PRESERVED. PRIOR TO CONSTRUCTION, MONUMENTS WILL BE REFERENCED HORIZONTALLY AND VERTICALLY. AFTER CONSTRUCTION, MONUMENTS SHALL BE RESET AND FIELD NOTES, INCLUDING NEW ELEVATION, SHALL BE FILED WITH THE CITY.

GENERAL NOTES SITE PLAN

1. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.
2. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
3. THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY, ON-SITE GRADING, DRAINAGE, AND WATER AND SEWER. THIS APPROVAL IS VALID FOR A PERIOD OF SIX MONTHS. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL. ONE 6 MONTH EXTENSION MAY BE GRANTED, UPON REQUEST, AFTER WHICH THE APPROVAL WILL EXPIRE.
4. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
5. THE CITY SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY CONSTRUCTION WORK. CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
6. CONSTRUCTION ITEMS SHALL NOT BE ACCEPTED UNTIL 3 MIL MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.
7. THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.
8. THE DEVELOPER IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE START OF NEW CONSTRUCTION.
9. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO APPROVAL OF IMPROVEMENT PLANS.
10. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) 48 HOURS PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF TEMPE TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
12. THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM CUSTOMER SERVICES. THIS METER SHOULD BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
13. ALL BROKEN OR DISPLACED EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE CITY OF TEMPE ENGINEERING DIVISION INSPECTOR.

GENERAL NOTES FOR STREET LIGHTS

1. STREET LIGHTS TO BE STREAMLINE STEEL POLES AND INSTALLED ON FOUNDATIONS PER CITY OF TEMPE STANDARD DETAIL T-651 MODIFIED WITH AN LED FIXTURE.
2. ALL STREET LIGHTS TO HAVE INDIVIDUAL PULL BOX (J-BOX), INSTALLED WITHIN 2 TO 4' FROM THE BASE OF THE POLE AND PER CITY OF TEMPE STANDARD DETAIL T-650.
3. ALL STREET LIGHTS TO BE 2' FROM BACK OF CURB WHERE RECESSED OR NO SIDEWALK EXISTS, OR 2' BACK OF WALK TO THE FACE OF POLE UNLESS OTHERWISE APPROVED BY CITY.
4. ALL STREET LIGHT CONDUITS TO BE 2-1/2" PVC SCHEDULE 40.
5. STREET LIGHTING IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL 3 MIL MINIMUM DOUBLE MATTE BLACK LINE MYLAR REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEERING DIVISION.

DEVELOPER

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PHONE: (602) 682-7665
CONTACT: JON SCHMID
EMAIL: JON@AVIDARCHITECTS.DESIGN

CIVIL ENGINEER

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9831 S 51ST ST, SUITE C110
PHOENIX, ARIZONA 85044
PHONE: (480) 496-0244
FAX: (480) 496-0094
CONTACT: PERCY MYRON JR.
EMAIL: PERCYM@HESSROUNTREE.COM

ELECTRICAL ENGINEER

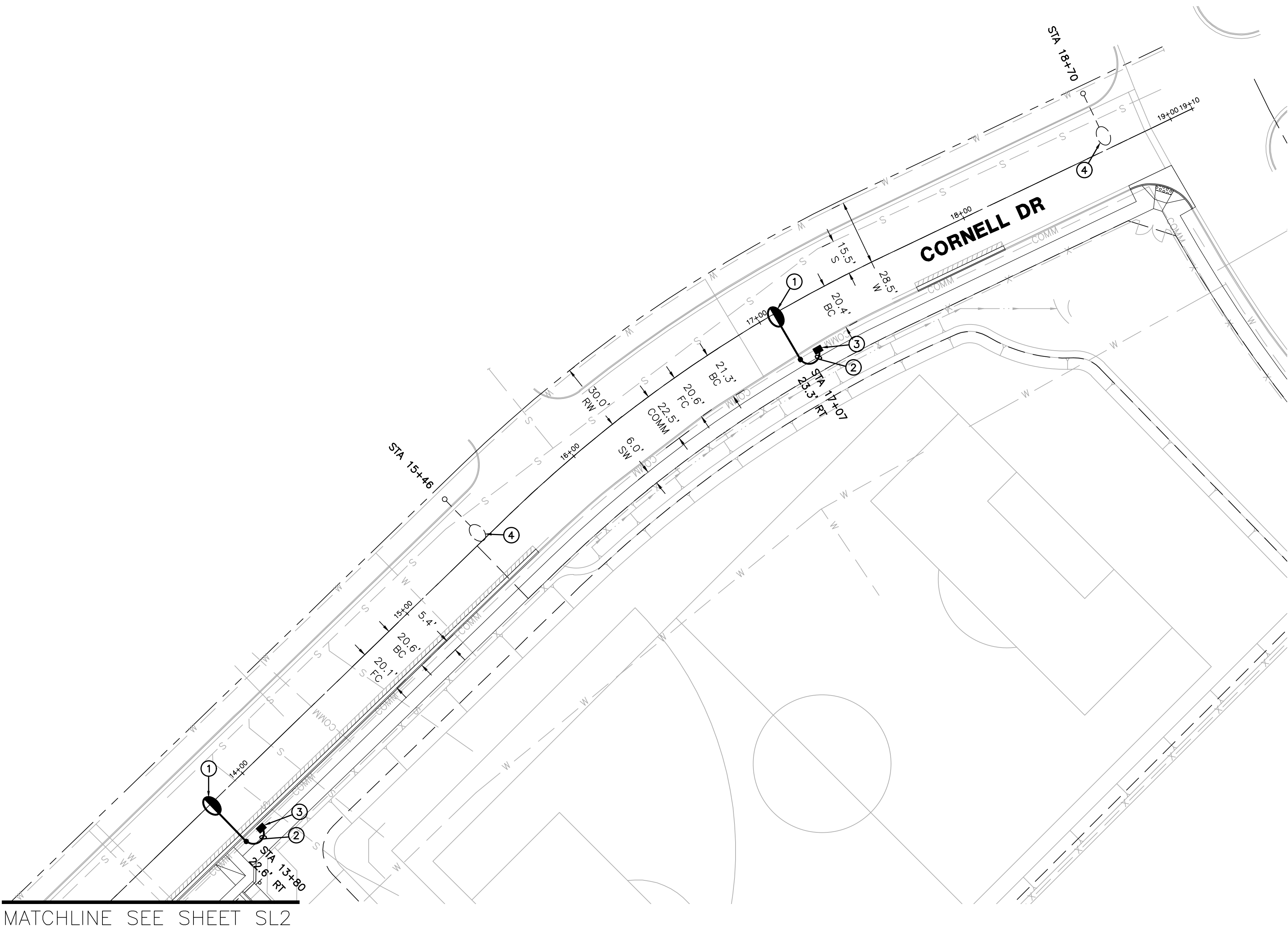
WRIGHT ENGINEERING CORPORATION
165 EAST CHILTON DRIVE
CHANDLER, AZ 85225
PHONE: (480) 497-5829
FAX: (480) 497-5807
CONTACT: CLIFF TOLMAN
EMAIL: CTOLMAN@WRIGHTENGINEERING.US

CONSTRUCTION NOTES

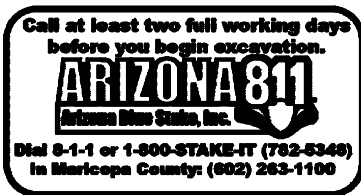
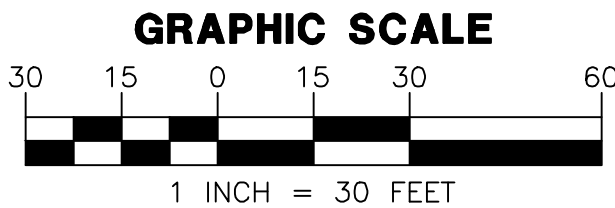
- ① INSTALL ONE 71W LED COBRAHEAD LUMINAIRE ON A 25'-6" STREET LIGHT POLE WITH A 4'-6" MAST ARM AND 30'-0" MOUNTING HEIGHT (PER CITY OF TEMPE STREET LIGHT POLE DETAIL T-651, SHEETS 1 OF 2 AND 2 OF 2) MODIFIED WITH ONE 71W (7,800 LUMENS) LED LUMINAIRE GE LIGHTING CAT# ERL1-0-08-B3-30-A-GRAY-GLR. POLE SHALL BE CENTERED 2' BEHIND BACK OF CURB.
- ② INSTALL NEW 2-1/2" CONDUIT FROM PULLBOX TO POLE BASE WITH (2) #10 CU CONDUCTORS, (1) #8 CU BOND.
- ③ INSTALL A NEW #3-1/2 PULLBOX WITH FUSE HOLDER, GROUNDING CLAMP AND GROUNDING ROD (PER CITY OF TEMPE STANDARD DETAIL T-650) PULLBOX SHALL BE PLACED 2' TO 4' FROM BASE OF POLE.
- ④ EXISTING STREET LIGHT TO REMAIN.

LEGEND

- 71W LED (7,800 LUMEN) COBRAHEAD LUMINAIRE ON A SINGLE ARM POLE WITH A 30'-0" MOUNTING HEIGHT
- EXISTING STREETLIGHT
- PULL BOX
- CONDUIT RUN



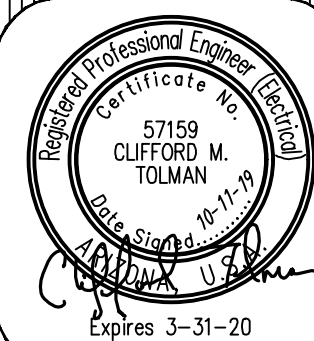
QUANTITIES LIST (STREET LIGHTS)		
TOTAL	UNIT	
6	EACH	71W LED COBRAHEAD



PROJECT: TITLE:
TEMPE, ARIZONA
WOOD ELEMENTARY SCHOOL
727 W CORNELL DR
STREET LIGHT DESIGN

NO. DATE SUBMITTALS/REVISIONS (DESCRIPTIONS)

NO.	DATE	SUBMITTALS/REVISIONS (DESCRIPTIONS)
1	9-23-19	1ST SUBMITTAL
2	10-11-19	2ND SUBMITTAL



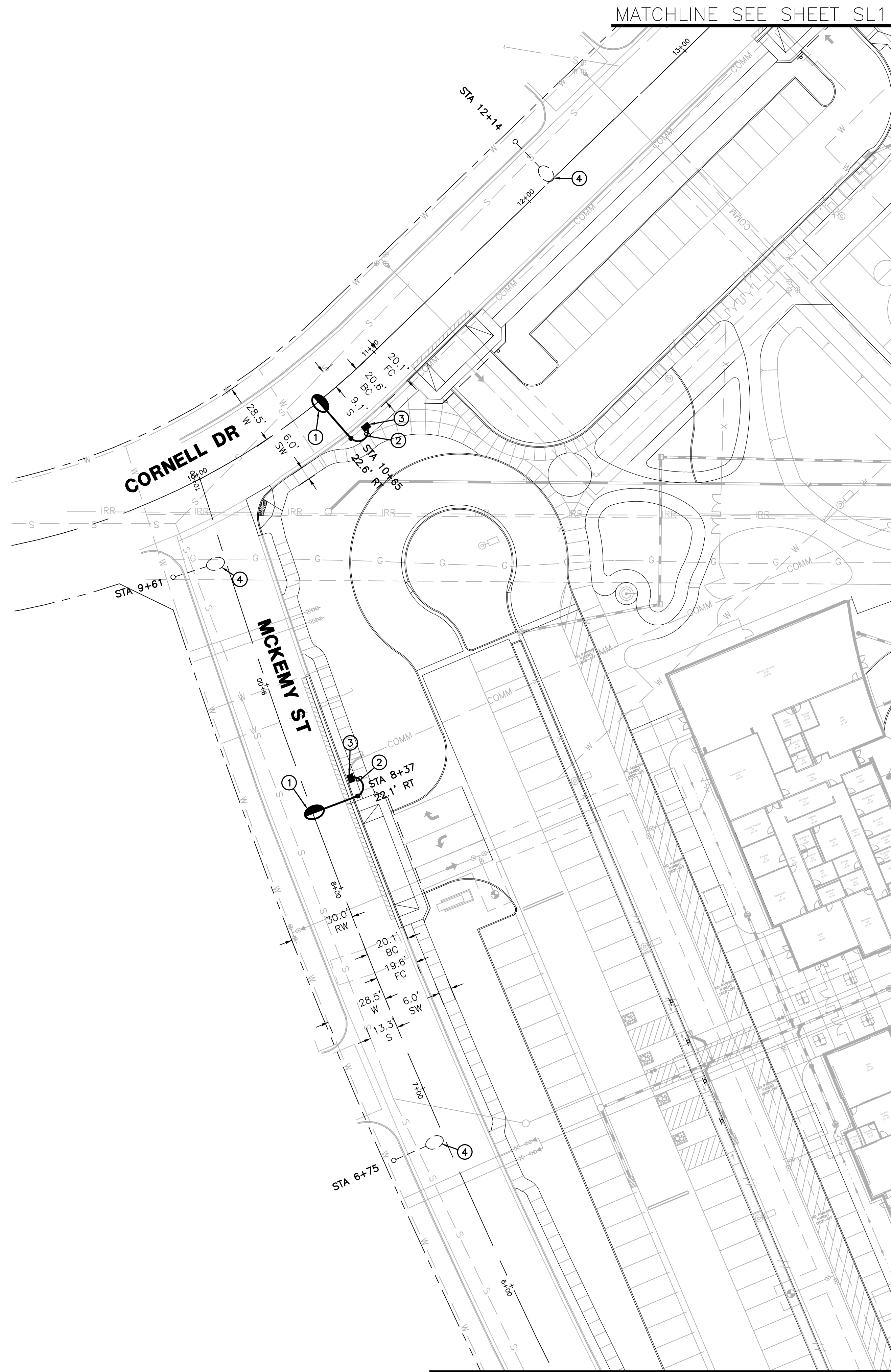
DRAWING NO:
SL1
OF 2
SHEET:
39 OF 40

WRIGHT ENGINEERING
PROJECT NO:
19315

DESIGN BY: LCT
DRAWN BY: LCT
CHECKED BY: CMT

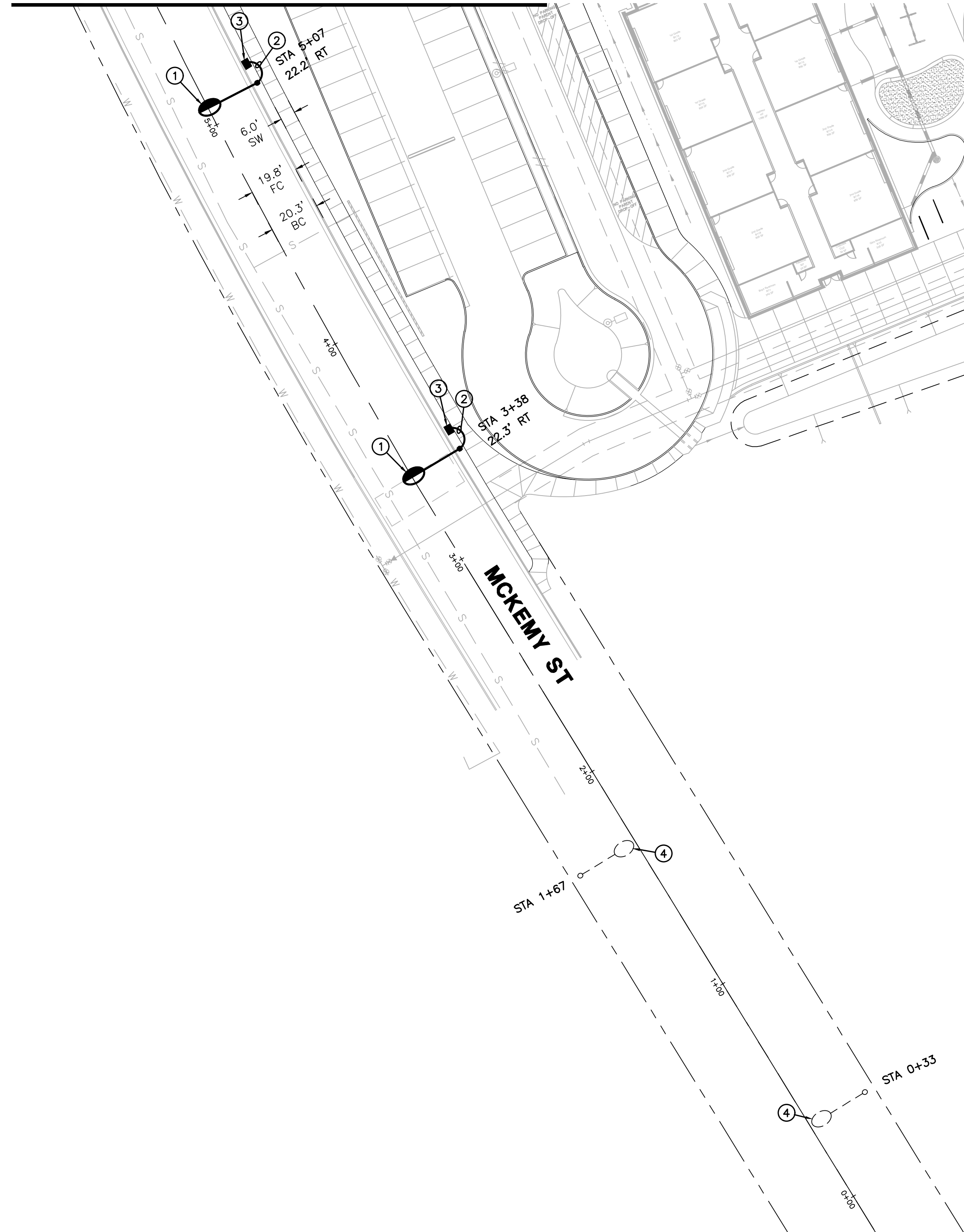


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MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW



LEGEND

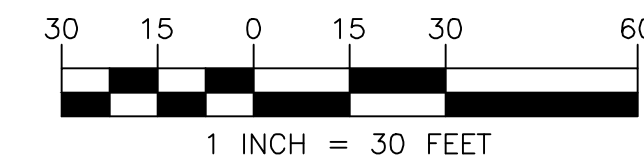
-  71W LED (7,800 LUMEN) COBRAHEAD LUMINAIRE ON A SINGLE ARM POLE WITH A 30'-0" MOUNTING HEIGHT
 EXISTING STREETLIGHT
 PULL BOX
 CONDUIT RUN

CONSTRUCTION NOTES

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- ④ EXISTING STREET LIGHT TO REMAIN.



GRAPHIC SCALE



WRIGHT ENGINEERING
PROJECT NO:
19315

DESIGN BY: LCT
DRAWN BY: LCT
CHECKED BY: CMT

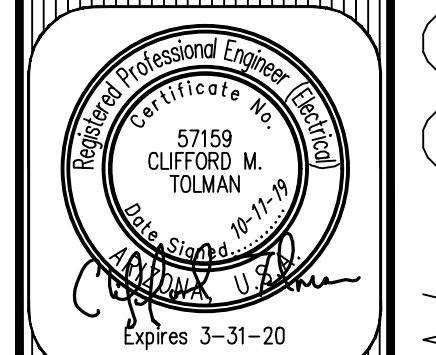
WRIGHT
engineering corporation

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165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us

PROJECT: TITLE:

TEMPE, ARIZONA
WOOD ELEMENTARY SCHOOL
727 W CORNELL DR

STREET LIGHT DESIGN

[illegible]

DRAWING NO:

SL2
OF 2

SHEET:
40 OF **40**

727 W CORNELL DR	EN190105	DS190962
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