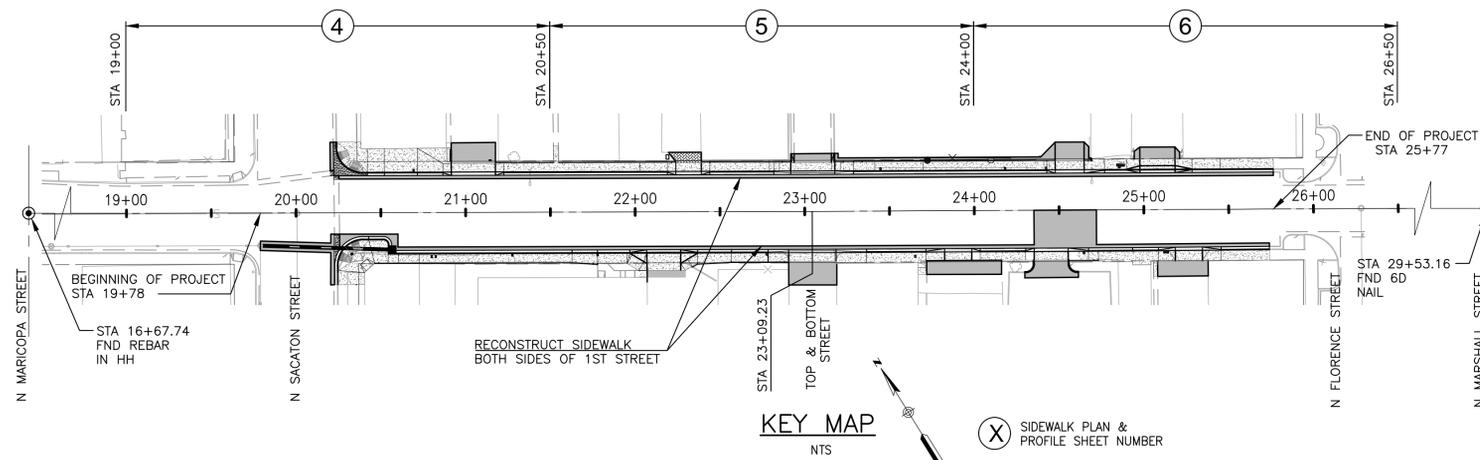
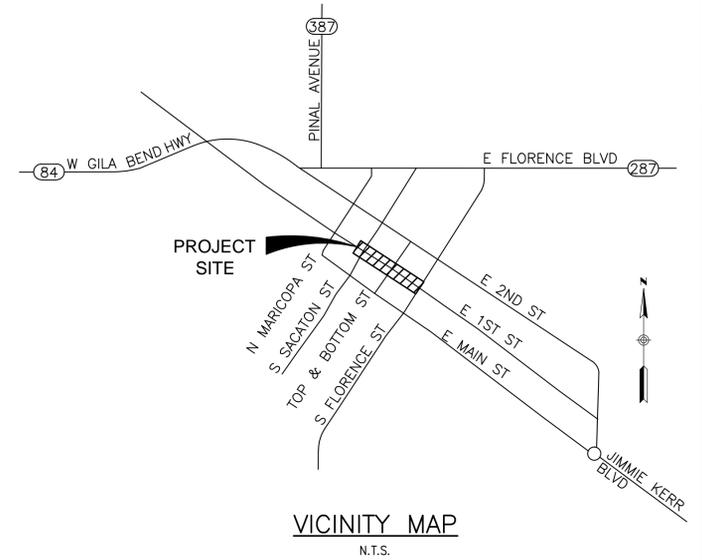


CITY OF CASA GRANDE 1ST STREET SIDEWALK PROJECT N SACATON STREET TO N FLORENCE STREET



ENGINEER:

RICK ENGINEERING COMPANY
6150 NORTH 16TH STREET
PHOENIX, ARIZONA 85016
CONTACT: DALE MILLER, PE
PHONE: (480)522-0330
EMAIL: DMILLER@RICKENGINEERING.COM

OWNER:

CITY OF CASA GRANDE
3181 NORTH LEAR AVENUE
CASA GRANDE, ARIZONA 85122
CONTACT: DUANE EITEL, PE
PHONE: (520) 421-8625
EMAIL: DEITEL@CASAGRANDEAZ.GOV

BENCHMARK:

BRASS CAP IN HAND HOLE AT THE INTERSECTION OF FLORENCE BLVD AND TREKELL RD.
POINT NAME CG 41
ELEVATION: 1407.303 NAVD 88
CITY OF CASA GRANDE DATUM

BASIS OF BEARING:

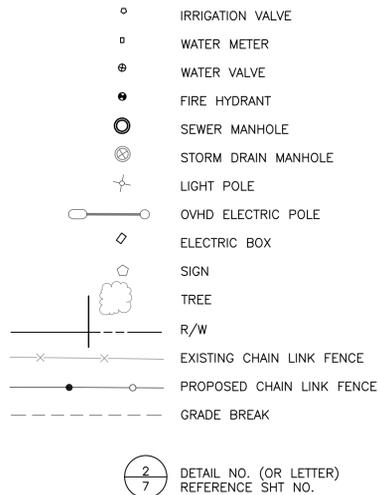
THE BASIS OF BEARING USED FOR THIS SURVEY IS BETWEEN TWO FOUND POINTS ACCEPTED AS THE MONUMENT LINE OF 1ST STREET. A FOUND REBAR IN HAND HOLE, MARKING THE INTERSECTION OF 1ST STREET AND OF MARIKOPIA ST, AND A FOUND 60D NAIL FLUSH MARKING THE INTERSECTION OF 1ST STREET AND MARSHALL ST A BEARING OF SOUTH 56 DEGREES 37 MINUTES 14 SECONDS EAST (ASSUMED).

UTILITY COMPANIES:

UTILITY PROVIDER	ARIZONA PUBLIC SERVICE
ELECTRIC	AZ WATER COMPANY
WATER	TELECOMMUNICATIONS
SEWER	CITY OF CASA GRANDE
CATV, FIBER	COX COMMUNICATIONS
PETROLEUM	KINDER MORGAN ENERGY
ELECTRIC	SAN CARLOS IRRIGATION PROJECT
GAS	SW GAS

ESTIMATED QUANTITIES			
ITEM	QTY	UNIT	
1 REMOVE CURB AND GUTTER SECTIONS	1,168	LF	
2 REMOVE CONCRETE SIDEWALK	6,487	SF	
3 REMOVE DRIVEWAY PAVEMENT	1,727	SF	
4 REMOVE STREET PAVEMENT	3,431	SF	
5 REMOVE CONCRETE VALLEY GUTTER	141	SF	
6 RECONSTRUCT BRICK DRIVEWAY	103	SF	
7 RELOCATE STREET LIGHT POLE	1	EA	
8 REMOVE EXISTING FENCE	53	LF	
9 4" ROLL CURB AND GUTTER SECTION PER MAG STD DETAIL 220-1, TYPE C	151	LF	
10 6" VERTICAL CURB AND GUTTER SECTION PER MAG STD DETAIL 220-1, TYPE A	455	LF	
11 VARIED HEIGHT VERTICAL CURB AND GUTTER SECTION PER MAG STD DETAIL 220-1, TYPE A	225	LF	
12 VARIED HEIGHT SINGLE CURB PER MAG STD DETAIL 222, TYPE B	436	LF	
13 VARIED HEIGHT SINGLE CURB TERMINATION SECTION PER MAG STD DETAIL 222	60	LF	
14 VARIED HEIGHT CURB TRANSITION SECTION PER MAG STD DETAIL 221	272	LF	
15 4" CONCRETE SIDEWALK PER MAG STD DETAIL 230	5,344	SF	
16 6" CONCRETE SIDEWALK CROSSING OF DRIVEWAYS	1,266	SF	
17 SIDEWALK RAMP PER CITY OF PHOENIX STD DETAIL P1238-1, MODIFIED FOR 15'R RETURN	2	EA	
18 STREET PAVEMENT SECTION - 3" AC ON 8" ABC	3,308	SY	
19 DRIVEWAY PAVEMENT SECTION - 3" AC ON 4" ABC	2,485	SY	
20 VALLEY GUTTER PER MAG STD DETAIL 240, MODIFIED	155	SF	
21 ADJUST VALVE BOX FRAME AND COVER	4	EA	
22 ADJUST WATER METER BOX FRAME AND COVER	22	EA	
23 ADJUST EXISTING FIRE HYDRANT	2	EA	
24 15" RGRCP STORM DRAIN PIPE	76	LF	
25 CATCH BASIN PER MAG STD DETAIL 535, TYPE F	1	EA	
26 CONNECT TO EXISTING STORM DRAIN MANHOLE	1	EA	
27 CHAIN LINK FENCE - 48" HEIGHT	108	LF	
28 4" WHITE PAVMENT MARKING	1,157	LF	
29 RELOCATE SIGN	1	EA	
30 TRAFFIC CONTROL	1	LS	
31 ALLOWANCE FOR OWNER DIRECTED CHANGES		FIXED AMOUNT	

SYMBOLS LEGEND



ABBREVIATION LEGEND

- (99.99) EXISTING ELEVATION OR SLOPE
- 99.99 ELEVATION
- BW BACK OF WALK
- C CURB
- D/W DRIVEWAY
- DET DETAIL
- FND FOUND
- G GUTTER
- GB GRADE BREAK
- HH HAND HOLE
- HT HEIGHT
- ME MATCH EXISTING
- MH MANHOLE
- NO. NUMBER
- O.C. ON CENTER
- PIP PROTECT IN PLACE
- R/W RIGHT OF WAY
- SD STORM DRAIN
- SHT SHEET
- TC TOP OF CURB
- VG VALLEY GUTTER

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	TYPICAL SECTIONS & DETAILS
4-6	PLAN & PROFILE SHEET
7	DETAILS
8-9	DRIVEWAY DETAILS
10	SIGNING AND PAVEMENT MARKING

ACCEPTANCE

BY DUANE EITEL, PE
CITY OF CASA GRANDE

DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE



1ST STREET SIDEWALK PROJECT
N SACATON STREET TO N FLORENCE STREET
COVER SHEET



Expires: 12-31-17

6150 NORTH 16TH STREET
PHOENIX, AZ 85016
602.927.1339
FAX: 602.285.2396

Tucson - San Diego - Sacramento - Riverside - Orange - San Luis Obispo - Bakersfield

rickengineering.com
COPYRIGHT 2016
RICK ENGINEERING COMPANY

PROJECT No: P4688-0
DATE: 02/23/2016

RICK ENGINEERING COMPANY
PHOENIX

CALL TWO WORKING DAYS BEFORE YOU DIG
(602) 263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

SHEET 1 OF 10

CITY OF CASA GRANDE STANDARD NOTES:

- ALL PUBLIC IMPROVEMENT CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY AND RELATED WORK OUTSIDE THE PUBLIC RIGHT-OF-WAY SHALL BE CONDUCTED IN ACCORDANCE WITH, AND CONFORM TO, THE LATEST EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AS PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG).
- INSPECTION OF WORK PER MAG 105.10: THE ENGINEER SHALL BE PERMITTED TO INSPECT ALL MATERIALS, AND EACH PART OR DETAIL OF THE WORK AT ANY TIME FOR THE PURPOSE OF EXPEDITING AND FACILITATING THE PROGRESS OF WORK. THE ENGINEER SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR, AS IS REQUIRED, TO MAKE A COMPLETE AND DETAILED INSPECTION. THE CITY ENGINEER REQUIRES THAT THE ACTUAL TEST RESULT DATA SHEET ACCOMPANY ALL COMPACTION TEST RESULTS SUBMITTED TO THE CITY'S INSPECTOR. PASS/FAIL STATEMENTS ARE NOT ACCEPTABLE WITHOUT THE ATTACHED DATA SHEET. FAILURE TO SUBMIT THE TEST RESULT DATA SHEETS WILL RESULT IN AN INCOMPLETE SUBMITTAL AND THE TEST WILL BE REJECTED.
- IN THE EVENT OF CONFLICT BETWEEN MAG STANDARD SPECIFICATIONS AND STANDARD DETAILS AND THESE PLANS, THESE PLANS SHALL PREVAIL.
- THE OFFICE OF THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE CITY RIGHT-OF-WAY. TELEPHONE: 520-421-8625.
- CONTRACTOR IS TO NOTIFY ALL PUBLIC UTILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, FOR FIELD LOCATIONS OF THEIR RESPECTIVE FACILITIES, BY CONTACTING THE FOLLOWING: "ARIZONA 811" (CALL 811 OR VISIT ARIZONA811.COM)
- CONTRACTOR SHALL COORDINATE AND MAKE ARRANGEMENTS FOR RELOCATION OF ANY UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION OF THESE PLANS WITH THE APPROPRIATE UTILITY.
- REMOVAL AND REPLACEMENT OF ALL TREES, SHRUBS, VEGETATION, MISCELLANEOUS STRUCTURES, DEBRIS, RUBBLE AND OTHER DELETERIOUS MATERIALS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE INCIDENTAL TO THE PROJECT.
- ALL CONCRETE SIDEWALKS, DRIVEWAYS, APRONS, CROSS-PANS, VALLEY GUTTER, CURBS AND GUTTERS, LANDSCAPING, AND IRRIGATION THAT MAY BE DAMAGED DURING THE COURSE OF CONSTRUCTIONS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- SHORING IS TO BE INSTALLED OR A TRENCH BOX IS TO BE USED, IN ALL TRENCHES IN EXCESS OF FIVE (5') FEET IN DEPTH. A REGISTERED CIVIL ENGINEER OR SOILS ENGINEER SHALL CERTIFY SHORING INSTALLATION PLANS, DETAILS AND SPECIFICATIONS. SHORING MUST CONFORM TO OSHA 29 CFR, PART 1926, AND SUBPART D.
- COMPACTION TESTING IS REQUIRED AND MUST BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY ENGINEER.
BACKFILL: BACKFILL WITHIN THE PUBLIC UTILITY EASEMENTS AND WITHIN PUBLIC STREET RIGHT-OF-WAY COMPACT TO 95% OF MAXIMUM THEORETICAL DENSITY PER ASTM D698. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT SHALL BE CONSIDERED UNSUITABLE AND SUBJECT TO REMOVAL. NO HYDRAULIC COMPACTION OR WATER JET COMPACTION WILL BE ALLOWED. ALL COMPACTION MUST BE DONE BY MECHANICAL MEANS. MOISTURE LIMIT SPEC: 2.0 PERCENT BELOW OPTIMUM MOISTURE AND MATERIAL SHALL BE UNIFORM.
SUBGRADE: SUBGRADE PREPARATION FOR ALL NEW STREETS AND ROADWAYS SHALL CONSIST OF SCARIFYING AND LOOSENING SUBGRADE TO A DEPTH OF SIX (6") INCHES. SUBGRADE SHALL BE CONSTRUCTED TO ACHIEVE UNIFORM MOISTURE CONTENT BY THE ADDITION OF WATER AND COMPACTED TO 95% OF MAXIMUM DENSITY. MOISTURE SHALL BE MAINTAINED BETWEEN OPTIMUM AND 4.0% BELOW OPTIMUM MOISTURE AND MATERIAL SHALL BE COMPACTED TO 95% ON MAXIMUM THEORETICAL DENSITY, AS DETERMINED BY ASTM D698. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT AT THE TIME OF PLACEMENT AND COMPACTION SHALL BE CONSIDERED UNSUITABLE AND SUBJECT TO REMOVAL. THE FINISHED SURFACE OF THE SUBGRADE SHALL NOT VARY FROM THE GRADES ESTABLISHED BY THE CITY ENGINEER BY MORE THAN: 0.04 OF A FOOT ABOVE OR BELOW SPECIFIED GRADE.
- INSTALL FOUR (4") INCHES OF AGGREGATE BASE COURSE MATERIAL, COMPACTED TO 100% UNDER ALL SIDEWALKS, ALLEYWAY AND DRIVEWAY ENTRANCES.
- GRADING OF AGGREGATE BASES AND AGGREGATE SUBBASE SHALL BE AS FOLLOWS: AGGREGATE MATERIALS SHALL HAVE WATER ADDED TO THEM AND SHALL BE MIXED AND PROCESSED TO PRODUCE A UNIFORM BLEND OF MATERIAL BEFORE PLACEMENT. AFTER PROCESSING, THE MATERIAL SHALL BE PLACED AND SPREAD ON THE PREPARED SUBGRADE AND SHALL BE PLACED IN A UNIFORM LAYER OR LAYERS NOT EXCEEDING SIX (6") INCHES IN COMPACTED DEPTH, UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER. EACH LAYER OF AGGREGATE BASE SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 100% OF THE MAXIMUM DENSITY PER ASTM D698. THE FINISHED SURFACE OF THE SUBGRADE SHALL NOT VARY FROM THE GRADES ESTABLISHED BY THE CITY ENGINEER BY MORE THAN: 0.04 OF A FOOT ABOVE OR BELOW SPECIFIED GRADE.
- COMPACTION TESTING FOR SUBGRADE WILL BE DONE AFTER THE SUBGRADE HAS BEEN STRING LINED AND IS WITHIN TOLERANCE AND ACCEPTED BY THE CITY ENGINEER. THE CITY ENGINEER OR HIS REPRESENTATIVE WILL DIRECT THE NUMBER AND LOCATION OF DENSITY TESTS. ALL SUBGRADES SHALL HAVE A BLUE-TOP ELEVATION SET TO FINISHED GRADE AND LEFT AND RIGHT EDGES OF PAVEMENT, AND CENTERLINE OF ROADWAY.
- ONE (1) SAND CONE TEST SHALL BE REQUIRED FOR EVERY TEN (10) NUCLEAR DENSITY TESTS PERFORMED, OR WHEN REQUESTED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. THE CITY ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL DETERMINE THE LOCATIONS OF THESE SAND CONE TESTS.
- ALL MATERIALS, INCLUDING BUT NOT LIMITED TO, AGGREGATE BASE COURSE, BORROW MATERIAL AND NATIVE MATERIAL, WILL BE ACCEPTED IN PLACE ONLY. TESTING REQUIRED FOR ACCEPTANCE WILL INCLUDE A SIEVE ANALYSIS AND PLASTICITY INDEX, (P.I.). DETERMINATION OF MAXIMUM THEORETICAL DENSITY WILL BE IN ACCORDANCE WITH ASTM D698. ONLY A FOUR-POINT PROCTOR TEST WILL BE ACCEPTED.
- THE BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL THE CITY ENGINEER HAS ACCEPTED THE SUBGRADE. ALL MATERIALS WILL BE ACCEPTED IN PLACE ONLY.
- COMPACTION DENSITIES: MAG TYPE I BACKFILL MATERIAL (SECTION 601.4.4) IS MODIFIED TO INCLUDE AREAS UNDER THE PAVEMENT, RIGHT-OF-WAY, AND EASEMENTS FOR ALL TRENCHES INCLUDING SEWER, WATER, ELECTRIC, GAS, TELEPHONE, AND STORM DRAINS, MOISTURE SPEC 2.0 PERCENT BELOW OPTIMUM MOISTURE COMPACT TO 95% OF MAXIMUM THEORETICAL DENSITY. ALL MATERIALS OUTSIDE THE MOISTURE SPEC-LIMIT SHALL BE CONSIDERED UNSUITABLE, SUBJECT TO REMOVAL AND MATERIAL SHALL BE UNIFORM.
- THE LOCATION OF ALL SEWER STUB-OUTS SHALL BE STAMPED ON THE TOP OF VERTICAL CURB, AND FACE OF ROLLED CURBS, WITH A FOUR (4") INCH HIGH LETTERS (IE: "5").
- ALL CURB, GUTTER AND SIDEWALK EXPANSION JOINT FILLER WILL BE ½" BITUMINOUS PRE-MOLDED STRIPS. ALL EXPANSION JOINT SPACING SHALL NOT EXCEED A MAXIMUM OF (50") FEET OR AS DIRECTED BY THE CITY ENGINEER. CONCRETE CURING COMPOUND MATERIAL SHALL BE A WHITE PIGMENT MEMBRANE USED ON ALL CONCRETE STRUCTURES INCLUDING CURB & GUTTER, SIDEWALK, HEADWALL, CATCH BASINS AND SIDEWALK RAMPS.
- PAVING WILL NOT COMMENCE UNTIL AGGREGATE BASE COURSE COMPACTION AND GRADATION TESTS ARE COMPLETED AND THE CITY ENGINEER ACCEPTS THE RESULTS.
- NO TRENCH IN PUBLIC RIGHT OF WAY SHALL BE LESS THAN TWELVE (12") INCHES IN WIDTH TO INSURE PROPER COMPACTION AND TESTING OF BACKFILL, SUBGRADE, BASE AND PAVEMENT.
- USPS CLUSTER MAIL BOX LOCATIONS MUST BE PRE-DETERMINED AND NOTED ON THE CIVIL PLANS FOR GRADING AND PAVING. ADD CLUSTER BOXES TO LEGEND AND IN CONSTRUCTION NOTES. CLUSTER BOX LOCATIONS SHOULD BE SHOWN ON THE "OVERALL SEWER/WATER/HYDRANT/STREETLIGHT PLAN."
- MEDIAN CURB & GUTTER BULL NOSE SHALL BE PAINTED YELLOW, WITH REFLECTIVE GLASS BEADS, PER MAG DTL-223, AND HAVE YELLOW RAISED PAVEMENT REFLECTORS INSTALLED BEFORE THE PAINTING IS COMPLETE.

CITY OF CASA GRANDE PAVING NOTES:

- NO SOILS REPORT AVAILABLE FOR THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND HORIZONTAL CONTROLS OF ALL EXISTING UTILITIES AT POINT OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION, ELEVATION OR CONTROL DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER.
- THE CONTRACTOR SHALL GIVE AT LEAST FORTY-EIGHT (48) HOURS PRIOR NOTICE TO THE CITY ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE RIGHT-OF-WAY.
- THE CITY ENGINEER MUST APPROVE ALL PLAN REVISIONS IN WRITING PRIOR TO CONSTRUCTION OF ANY CHANGES TO APPROVED PLANS.
- UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS WORK IS COMPLETED.
- REMOVAL AND RELOCATION OF ALL MAILBOXES, FENCES, SIGNS, GATES, POSTS, PIPES, ETC., WITHIN THE RIGHT-OF-WAY AND CONSTRUCTION LIMITS SHALL BE DIRECTED BY THE CITY ENGINEER.
- 25 MPH SPEED LIMIT SIGNS SHALL BE LOCATED AT ALL ENTRANCES TO THE JOB SITE. 35 MPH SIGNS FOR COLLECTORS SHALL BE LOCATED PER THE TRAFFIC CONTROL PLANS.
- CONCRETE COLLARS, ON ALL UTILITY AND SURVEY MONUMENT FRAME ADJUSTMENTS, ARE TO BE INSTALLED FLUSH WITH THE PROPOSED OR EXISTING PAVEMENT.
- PAINT FOR PAVEMENT MARKING AND STRIPING SHALL BE THERMAL TRAFFIC PAINT APPLIED IN A SINGLE COAT AT A RATE OF 100 TO 110 SQ. FEET PER GALLON WITH TRAFFIC BEADS INCLUDED.
- STREET CUTS ON ASPHALT PAVEMENT: CUT EXISTING PAVEMENT AT ONE (1') FROM THE UTILITY TRENCH CUT, PER MAG DETAIL 200 TYPE (T) TOP; TACK EDGES. (USING A19MM PER. MAG SECT.710 ASPHALTIC CONCRETE HOT MIX). ASPHALT CONCRETE SHALL BE TESTED FOR COMPACTION, TO 95% PER ASTM D698. THE CONTRACTOR, AT HIS EXPENSE, WILL HAVE A PRIVATE LAB CORE SAMPLE AND RUN A MARSHALL MIX DESIGN FOR COMPACTION TEST, FOR ACCEPTANCE ON ALL STREET CUTS. ALL REPLACEMENT PAVEMENTS SHALL MATCH EXISTING, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
- ALL CONSTRUCTION & TEST METHODS SHALL BE IN CONFORMANCE WITH THE CITY OF CASA GRANDE AND MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARDS SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- ASPHALTIC CONCRETE FOR STREETS SHALL CONFORM TO MAG SECTION 710 MIX DESIGN SPECIFICATIONS. THE MINIMUM PAVEMENT SECTION SHALL BE A 3" AC SURFACE COURSE WITH AN 8" AGGREGATE BASE COURSE.
- NOT USED
- ALL CONCRETE SHALL COMPLY WITH MAG SECTION 725, CLASS-A 3000-PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL SUPPLY MIX DESIGN TO THE CITY ENGINEER FOR APPROVAL PRIOR TO PLACEMENT. CONTRACTOR SHALL SUPPLY A COPY OF EACH BATCH TICKET TO THE CITY ENGINEER OR HIS REPRESENTATIVE.
- A COPY OF THE CITY APPROVED PLANS MUST BE KEPT ON-SITE AT ALL TIMES, DURING THE COURSE OF CONSTRUCTION.
- ALL NEWLY CONSTRUCTED PAVEMENTS SHALL RECEIVE AN APPLICATION OF SEALANT (FOG-SEAL), APPROVED IN ADVANCE BY THE CITY ENGINEER AND PRIOR TO ACCEPTANCE INTO A WARRANTY PERIOD. HYDRANT REFLECTORS SHALL BE INSTALLED AFTER THE APPLICATION OF THE SEALANT.
- IN THE EVENT OF ANY CONFLICT BETWEEN THESE PLANS AND MAG STANDARD SPECIFICATIONS, THESE APPROVED PLANS SHALL PREVAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR FINAL ADJUSTMENT OF ALL MANHOLES, VALVES, CLEAN-OUTS, WATER METER BOXES, J-BOXES, ETC., AND RESTORATION OF CONSTRUCTION SITE TO MAG STANDARDS, INCLUDING RIGHT OF WAY GRADING. NONE OF THE ABOVE SHALL BE LOCATED IN CURB AREAS.
- TESTING OF A/C MIX PRIOR TO PLACEMENT IS REQUIRED AND RESULTS ARE TO BE DELIVERED TO THE CITY ENGINEER OR HIS REPRESENTATIVE PRIOR TO PAVING.
- ROLLING PATTERNS REQUIRED BY THE GEOTECHNICAL TESTING FIRM SHALL ALSO BE SUPPLIED TO THE CITY ENGINEER'S REPRESENTATIVE.
- CORE TESTING OF NEWLY CONSTRUCTED ASPHALT CONCRETE SURFACES MAY BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER. CORE TESTS ARE MANDATORY, ALONG WITH SUPPORTING MARSHALL TEST RESULTS, FOR ALL EXISTING ROADWAYS WHERE STREET CUTS ARE NECESSARY.
- PROTECTION OF VALLEY GUTTERS, CROSS-PANS AND APRONS DURING PAVING OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ALL DAMAGED CONCRETE SHALL BE REPLACED PRIOR TO ACCEPTANCE.
- TACK SEAL SHALL BE REQUIRED BETWEEN LIFTS, ALL VERTICAL CONCRETE SURFACES PRIOR TO PLACEMENT OF ASPHALT. THIS REQUIREMENT ALSO APPLIES TO VERTICAL ASPHALTIC CONCRETE SURFACES AND AT ALL JOINTS OF NEW LIFTS.
- THE CONTRACTOR'S SURVEYOR SHALL PERFORM INSTALLATION AND STRADDLING OF MONUMENTS. ONCE STAMPED, DATUM SHALL BE PART OF THE AS-BUILT RECORD PLANS.
- STREET SIGN BASES, POLES AND SIGNS SHALL BE INSTALLED PRIOR TO THE FINAL WALK-THROUGH AND PROJECT ACCEPTANCE. ONLY CHANNEL SIGN POSTS SHALL BE PERMITTED.
- ALL WARNING, REGULATORY AND STREET NAME SIGNS MUST BE MANUFACTURED OF "ASTM D-4956-04 -PROPOSED TYPE IX SHEETING" (3M 4090 SERIES OR EQUIVALENT), THAT WILL BE ATTACHED TO THE STANDARD SIGN ALUMINUM PLATES. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURERS MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELECTRONIC CUT TABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK-SCREENED (DEPENDING ON THE QUALITY OF SIGNAGE) WITH STANDARD HIGHWAY COLORS. IN ADDITION, IF CALLED OUT ON PLANS, TO CREATE A GRAFFITI-PROTECTIVE COATING, A PREMIUM PROTECTIVE OVERLAY FILM, 3M 1160 OR EQUIVALENT, SHALL BE USED WHICH IS DESIGNED TO COMPLY WITH THE UNDERLYING REFLECTIVE SHEETING MATCH COMPONENT SYSTEM.

CITY OF CASA GRANDE PAVING NOTES CONTINUED:

- RIGHT-OF-WAY FINE GRADING SHALL BE COMPLETED PRIOR TO THE FINAL WALK-THROUGH AND SHALL BE HELD ONE (1") INCH BELOW BACK OF WALK. (B.O.W.)
- PAVING AS-BUILTS: PAVING AS-BUILT PLANS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AND SHALL CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS PRIOR TO REQUEST FOR FINAL INSPECTION, CERTIFICATE OF OCCUPANCY OR RELEASE OF ASSURANCE.
- FRESHLY PAVED FINISHED ROADWAY SHALL BE 1/4 " ABOVE THE LIP OF THE CONCRETE GUTTER.
- SUBGRADE PREPARATION FOR ALL SIDEWALKS, CURB & GUTTER SHALL BE SCARIFIED AND LOOSENED TO A DEPTH OF 6", AND SHALL BE CONSTRUCTED TO ACHIEVE A UNIFORM MOISTURE BY THE ADDITION OF WATER. MOISTURE SHALL BE MAINTAINED 2.0 PERCENT ABOVE OPTIMUM MOISTURE PRIOR TO PLACEMENT OF CONCRETE, AND COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT SHALL BE CONSIDERED SUBJECT TO REMOVAL.
- ANY PAVEMENT ADJACENT TO EXISTING ROW MUST MATCH THE EXISTING PAVEMENT DESIGN, UNLESS OTHERWISE AUTHORIZED, IN WRITING, BY THE CITY ENGINEER.
- FINISHED GRADE OF COMPACTED, FRESHLY PLACED ASPHALT, SHALL BE NO MORE NOR LESS THAN ¼" INCH ABOVE THE LIP OF THE GUTTER.
- NO DIESEL, OR OTHER CLEANING SOLVENTS, WILL BE APPLIED TO THE PAVING HOPPER, THE SCREED, THE AUGER IMMEDIATELY PRIOR TO BEGINNING OF THE PAVING OPERATION.
- ALL ADA SIDEWALK RAMPS SHALL BE INSTALLED WITH TRUNCATED DOME DETECTABLE WARNINGS IN COMPLIANCE WITH MAG STANDARD DETAILS 231-234. TRUNCATED DOMES MUST BE A REINFORCED, PRE-CAST, SET-IN-PLACE TYPE PRODUCT. SURFACE APPLIED PRODUCTS, PAVERS OR STAMPED CONCRETE WILL NOT BE ALLOWED FOR NEW INSTALLATIONS. FIBERGLASS MATERIAL IS NOT ACCEPTABLE. COLOR OF TRUNCATED DOMES SHALL BE BROWNISH RED (TERRACOTTA).
- PAVING PLAN AS-BUILTS: AS-BUILT PLANS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: HORIZONTAL AND VERTICAL CONTROL, CHANGES TO ANY GRADE BREAK LOCATIONS, TOP OF CURB (TOC) ELEVATIONS AT EACH PROPERTY CORNER, GUTTER/FLOW LINE ELEVATIONS, SCUPPER AND CATCH BASIN INVERTS, MONUMENTATION, CROSS SLOPES, VALLEY GUTTER FLOW LINE ELEVATIONS, HYDRANT REFLECTORS AND ANY AND ALL CHANGES TO THE APPROVED PLANS.

CITY OF CASA GRANDE STORM SEWER NOTES:

- REINFORCED CONCRETE PIPE (RCP) SHALL BE PLACED PER MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS
- MANHOLE CONCRETE COLLAR SHALL BE 1' FOOT DEEP AND 1' FOOT WIDE OUTSIDE OF RIM CASTING. COLLAR SHALL BE USED IN UNPAVED AS WELL AS PAVED AREAS.
- ALL RCP PIPE JOINTS SHALL BE JOINED WITH AN "O" RING OR GASKET TYPE WATERTIGHT SEAL.
- ANY STORM DRAINS CROSSING THE CITY STREETS THAT ARE GOING TO BE PAVED WILL BE REQUIRED TO USE 2-SACK A.B.C. SLURRY FILL TO THE TOP OF THE PIPE WITH 6" TO 8" ON EACH SIDE OF PIPE. ALL STORM PIPES WITHIN CITY ROW SHALL BE RGRCP.
- CONSTRUCTION OF STORM DRAIN REQUIRES 4" A.B.C. BEDDING PER MAG SPEC 702 MODIFIED COMPACT TO 95% PER ASTM D698 TYPICAL.
- CONSTRUCTION OF MANHOLE FOUNDATIONS FOR ALL STORM SEWER BASES SHALL BE PER MAG SECTIONS 505 AND 725.
- STORM PLAN AS-BUILTS: AS-BUILT STORM SEWER PLANS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: TOC AT BOTH ENDS OF EACH SCUPPER AND GUTTER AT CENTER OR FLOW-LINE OF EACH SCUPPER; INLET AND OUTLET INVERTS; HEADWALL TOP ELEVATIONS AND INVERTS; CROSS-PAN AND VALLEY GUTTER FLOW LINES ELEVATIONS; STORM MANHOLE RIM AND INVERT ELEVATIONS; DRYWELL RIM ELEVATIONS; PIPE DIMENSIONS AND LENGTHS, AND ANY AND ALL DEVIATIONS FROM APPROVED DRAWINGS.

RICK ENGINEERING COMPANY NOTES:

- ANY QUESTION RAISED RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL NOT BE RAISED SUBSEQUENT TO COMPLETION OF THE WORK UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT. SHOULD SUCH STAKES NOT BE PRESENT AND VERIFIED AS TO THEIR ORIGIN, NO CLAIM FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY AND SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION FOR THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- NEITHER THE OWNER NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL FOLLOW THE GUIDELINES AND REGULATIONS AS SET FORTH BY OSHA.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL IMPROVEMENTS ARE BUILT IN ACCORDANCE WITH THESE PLANS. CONTRACTOR DOES HIS OWN SURVEY AND STAKING. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT 602-957-3350.
- THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS.
- THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE SOLE EXPENSE OF THE CONTRACTOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE AND ELECTRIC CONDUITS AND STRUCTURES, IN ADVANCE OF ANY CONSTRUCTION AND TO OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER AND/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM SAME.
- CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATIONS OF EXISTING FACILITIES.
- BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY AND "ARIZONA 811" (BLUE STAKE).
- LOCATION AND ELEVATION OF IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF THE NEW WORK.
- CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES AND IMPROVEMENTS DURING THE GRADING OPERATIONS AND CONSTRUCTION OF ALL OTHER IMPROVEMENTS SHOWN ON THE PLANS.
- WHERE TRENCHES ARE WITHIN EASEMENTS, WITHIN 10' OF ANY BUILDING, OR UNDER ANY STREET OR SIDEWALK PAVEMENT, A SOILS REPORT SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOILS ENGINEER WHICH INDICATES THAT TRENCH BACKFILL WAS COMPACTED UNDER THE OBSERVATION OF THE SOILS ENGINEER AND IN ACCORDANCE WITH THE MAG SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF BACKFILL COMPACTION TESTING.
- ALL FRAMES, COVERS, VALVE BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.

1ST STREET SIDEWALK PROJECT
N SACATON STREET TO N FLORENCE STREET
GENERAL NOTES



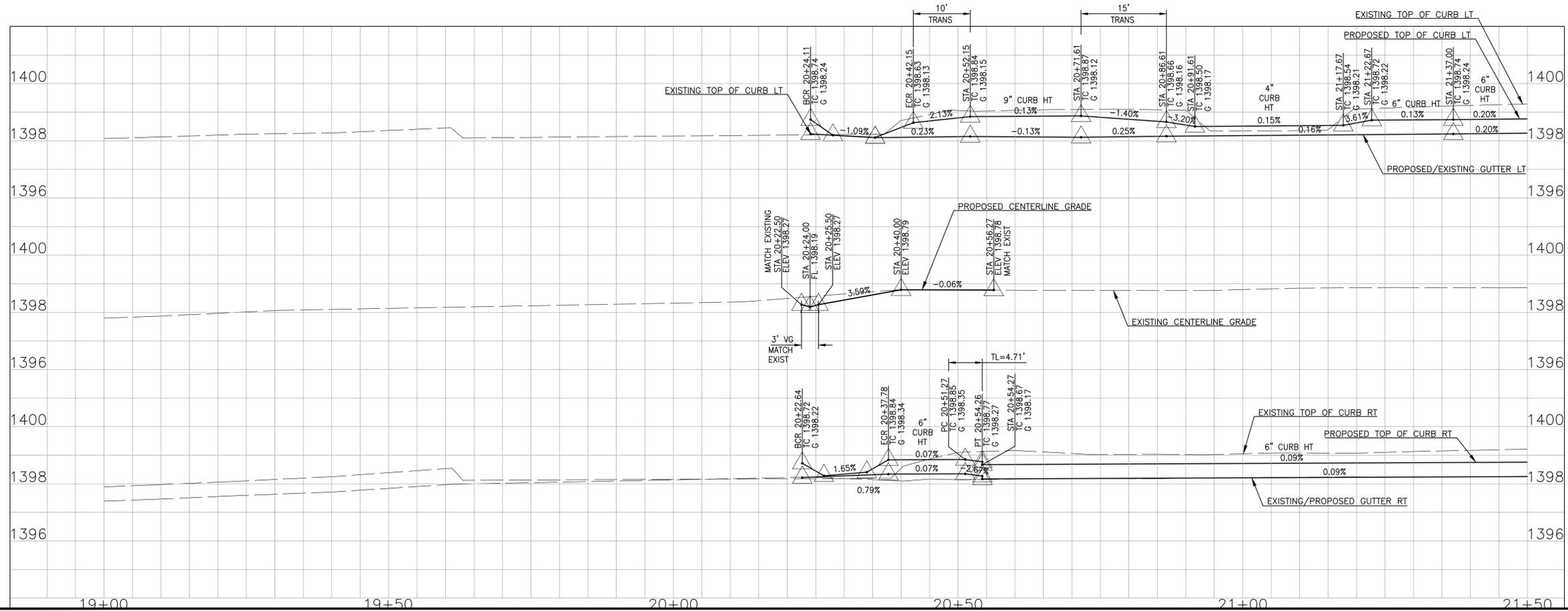
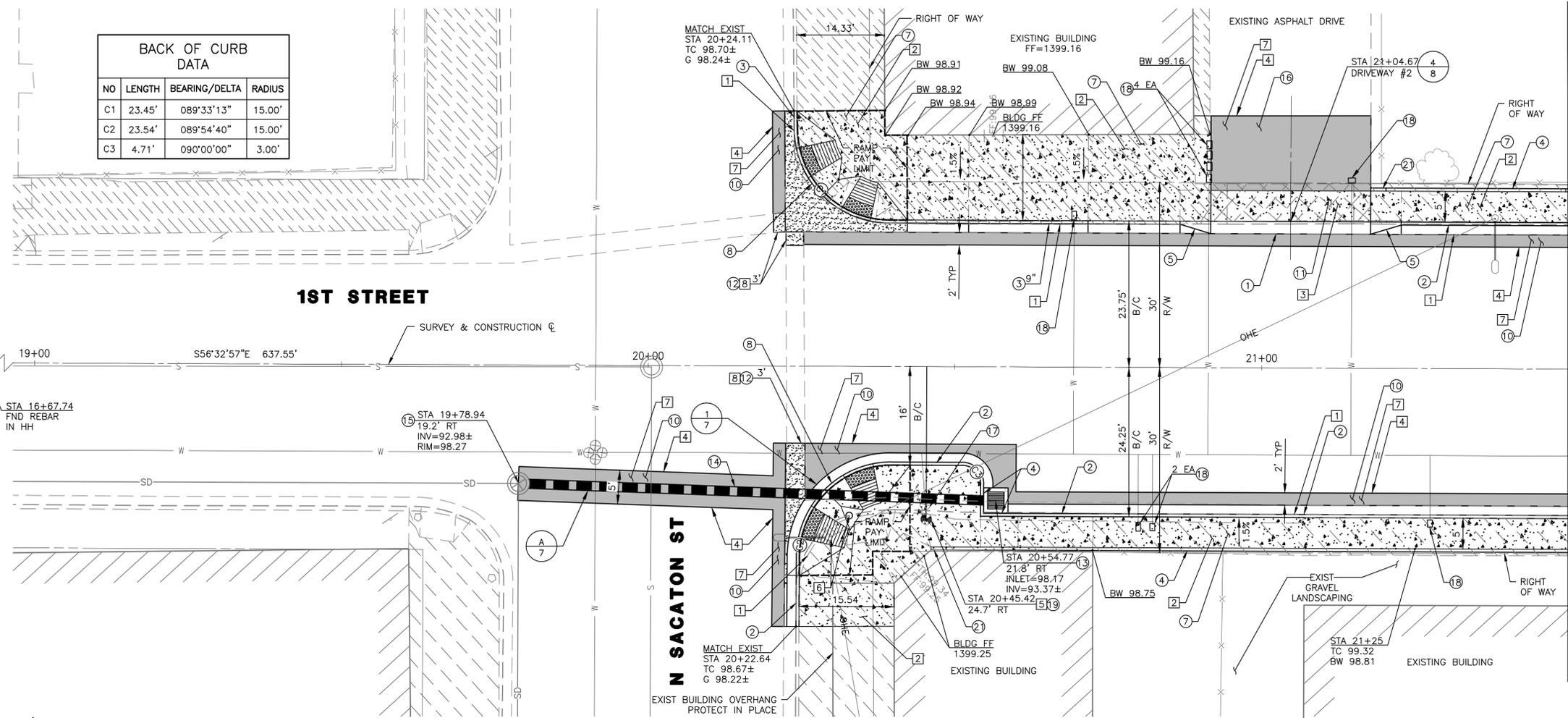
Expires: 12-31-17

rickengineering.com
 6150 NORTH 16TH STREET
 SUITE 2016
 PHOENIX, AZ 85016
 602.957.3350
 (FAX) 602.285.2396
 Tucson - San Diego - Sacramento - Riverside - Orange - San Luis Obispo - Bakersfield
 Rick Engineering Company
 PROJECT No: P4688-0
 DATE: 02/29/2016
 DRAWN: MFS
 DEM
 COPY/RIGHT 2016
 RICK ENGINEERING COMPANY

RICK
 ENGINEERING COMPANY
 PHOENIX
 CALL TWO WORKING DAYS BEFORE YOU DIG
 (602) 263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)
 SHEET 4 OF 10

REVISIONS		
NO.	DESCRIPTION	DATE

BACK OF CURB DATA			
NO	LENGTH	BEARING/Delta	RADIUS
C1	23.45'	089°33'13"	15.00'
C2	23.54'	089°54'40"	15.00'
C3	4.71'	090°00'00"	3.00'



- RELOCATE & REMOVALS**
- REMOVE CURB AND GUTTER SECTION
 - REMOVE SIDEWALK TO NEAREST JOINT
 - REMOVE DRIVEWAY
 - SAWCUT PAVEMENT, MATCH ELEVATION
 - ADJUST FIRE HYDRANT
 - RELOCATE OR ADJUST STREET LIGHT
 - REMOVE EXISTING ASPHALT
 - REMOVE CONCRETE VALLEY GUTTER
 - REMOVE EXISTING CHAIN LINK FENCE
 - REMOVE & SALVAGE EXISTING BRICK
 - REMOVE SINGLE CURB
 - REMOVE POST
- CONSTRUCTION NOTES**
- CONSTRUCT 4" ROLLED CURB PER MAG STD DET 220-1, TYPE 'C'
 - CONSTRUCT 6" VERTICAL CURB & GUTTER PER MAG STD DET 220-1, TYPE 'A'
 - CONSTRUCT VERTICAL CURB & GUTTER PER MAG STD DET 220-1, TYPE 'A' (MODIFIED HEIGHT PER PLAN)
 - INSTALL SINGLE CURB PER MAG STD 222, TYPE B, 6" HIGH, UNLESS OTHERWISE NOTED
 - CONSTRUCT CURB TYPE 'A' VERTICAL CURB TO TYPE 'C' ROLL CURB TRANSITION PER MAG STD DET 221 (MODIFIED LENGTH 5' OR AS NOTED ON PROFILE)
 - CONSTRUCT CURB & GUTTER SECTION TRANSITION FROM VERTICAL TO 2' WIDE MODIFIED VALLEY GUTTER SECTION MATCH CURB HEIGHT ON EACH SIDE (LENGTH PER PROFILE)
 - CONSTRUCT 4" CONCRETE SIDEWALK PER MAG STD DET 230 & PER STRUCTURAL SECTION NO. 3 SHT 3
 - CONSTRUCT CONCRETE SIDEWALK RAMP PER CITY OF PHOENIX STD DET P1238-1 SHT 3 (MODIFIED TO BE 15' RADIUS, DEPRESS CURB THROUGH RAMP)
 - RELAY SALVAGED BRICKS ON 4" COMPACTED PC CONCRETE BASE. USE TO TRANSITION BRICK DRIVEWAY TO NEW SIDEWALK CROSSING. USE MAG STD DET 225 AS GUIDE (MODIFIED NO CONC HEADER, BASE SHALL BE PCC)
 - CONSTRUCT ASPHALT PAVEMENT PER STRUCTURAL SECTION NO. 1 SHT 3
 - CONSTRUCT 6" CONC SIDEWALK ACROSS DRIVEWAY PER MAG STD DET 230 & PER STRUCTURAL SECTION NO. 4 SHT 3
 - CONSTRUCT CONCRETE VALLEY GUTTER PER DET 2, SHT 3 WIDTH AS NOTED ON PLAN
 - INSTALL CATCH BASIN PER MAG STD DET 535, TYPE 'F'
 - INSTALL 15" RGRCP STORM DRAIN PIPE; DET A, SHT 7
 - CONNECT TO EXISTING STORM DRAIN MANHOLE
 - CONSTRUCT ASPHALT PAVEMENT PER STRUCTURAL SECTION NO. 2 SHT 3
 - ADJUST VALVE BOX FRAME & COVER PER MAG STD DET 270
 - ADJUST WATER METER TO GRADE
 - ADJUST FIRE HYDRANT TO NEW SIDEWALK GRADE
 - INSTALL CHAINLINK FENCE PER MAG STD DET 160 (MODIFIED 48" TALL) PER DET 3, SHT 3
 - INSTALL CURB TERMINATION SECTION PER MAG STD DET 222
 - INSTALL CONCRETE SINGLE CURB PER MAG STD DET 222, TYPE B (MODIFIED HEIGHT PER PLAN WITH NO. 4 REBAR) SEE DET 3 ON SHT 3

GENERAL NOTES

- CONCRETE SIDEWALKS TO BE CONSTRUCTED AGAINST MASONRY WALL, RETAINING WALL OR BUILDING TO PROVIDE AN EXPANSION JOINT SEPARATOR

LEGEND

- EXISTING DRIVEWAY
- EXISTING SIDEWALK
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED APRON/VALLEY GUTTER
- PROPOSED 6" SINGLE CURB

SCALE

HORIZ: 1" = 10'
VERT: 1" = 2'

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED: P4688-0
DATE: 02/29/2016

DRAWN: MFS

PROJECT No: P4688-0
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

1ST STREET SIDEWALK PROJECT
N SACATON STREET TO N FLORENCE STREET
PLAN & PROFILE SHEET

ENGINEERING COMPANY
Rick Engineering Company
6150 NORTH 16TH STREET
PHOENIX, AZ 85016
602.972.1339
FAX: 602.285.2396

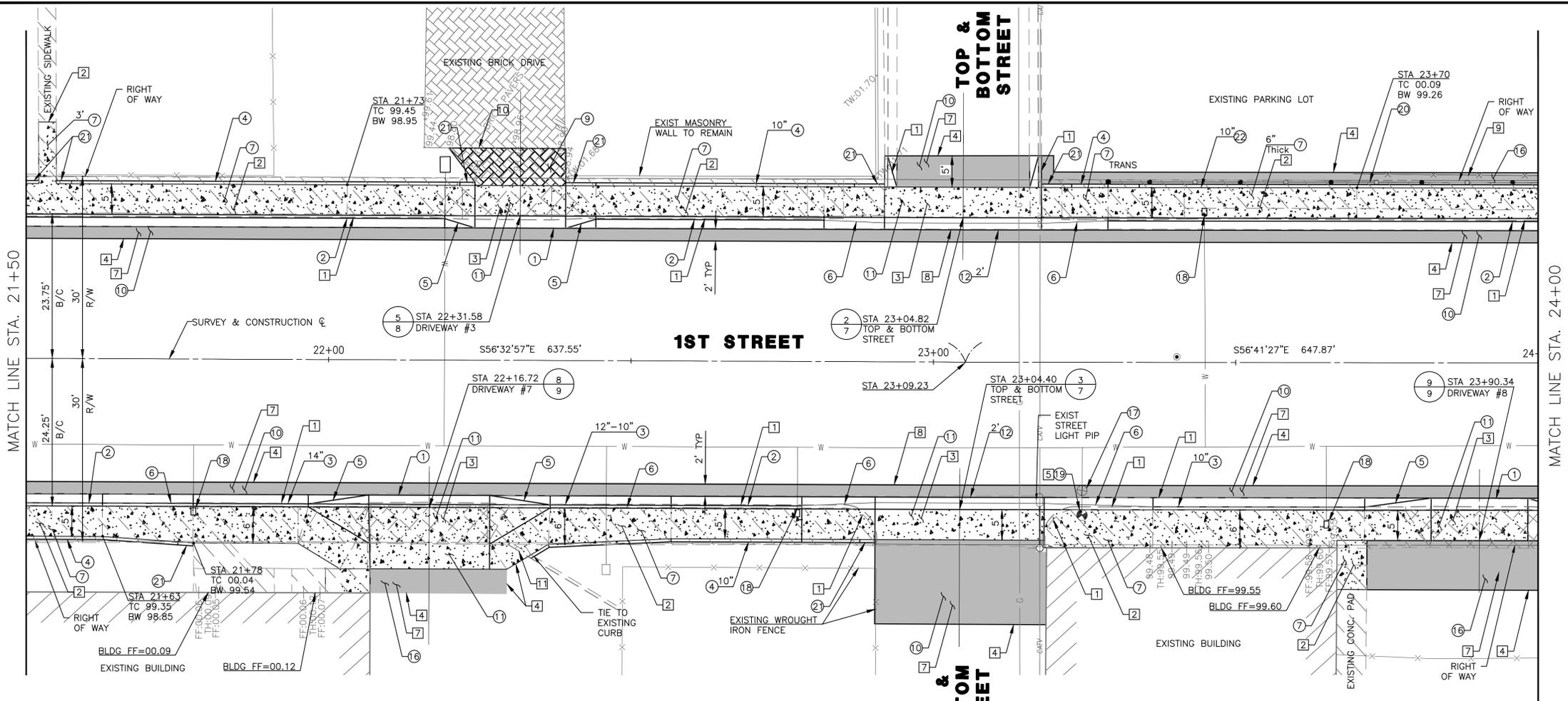
REGISTERED PROFESSIONAL ENGINEER
DALE E. MILLER
No. 2348
AZ 0000002348
EXPIRES 12-31-17

DESIGNED: P4688-0
DATE: 02/29/2016
DRAWN: MFS
COPYRIGHT: 2016
RICK ENGINEERING COMPANY

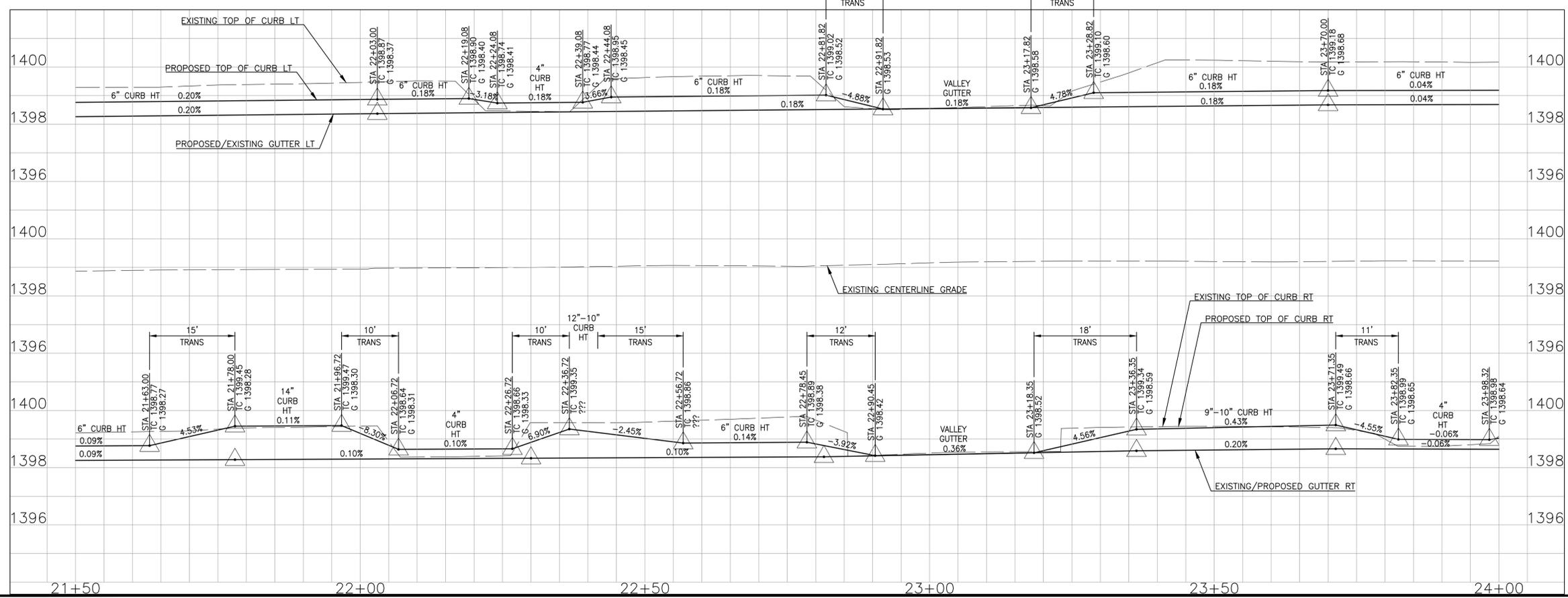
PROJECT No: P4688-0
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

SHEET 4 OF 10

1ST STREET SIDEWALK PROJECT
N SACATON STREET TO N FLORENCE STREET
PLAN & PROFILE SHEET



- RELOCATE & REMOVALS**
- 1 REMOVE CURB AND GUTTER SECTION
 - 2 REMOVE SIDEWALK TO NEAREST JOINT
 - 3 REMOVE DRIVEWAY
 - 4 SAWCUT PAVEMENT, MATCH ELEVATION
 - 5 ADJUST FIRE HYDRANT
 - 6 RELOCATE OR ADJUST STREET LIGHT
 - 7 REMOVE EXISTING ASPHALT
 - 8 REMOVE CONCRETE VALLEY GUTTER
 - 9 REMOVE EXISTING CHAIN LINK FENCE
 - 10 REMOVE & SALVAGE EXISTING BRICK
 - 11 REMOVE SINGLE CURB
 - 12 REMOVE POST
- CONSTRUCTION NOTES**
- 1 CONSTRUCT 4" ROLLED CURB PER MAG STD DET 220-1, TYPE 'C'
 - 2 CONSTRUCT 6" VERTICAL CURB & GUTTER PER MAG STD DET 220-1, TYPE 'A'
 - 3 CONSTRUCT VERTICAL CURB & GUTTER PER MAG STD DET 220-1, TYPE 'A' (MODIFIED HEIGHT PER PLAN)
 - 4 INSTALL SINGLE CURB PER MAG STD 222, TYPE B, 6" HIGH, UNLESS OTHERWISE NOTED
 - 5 CONSTRUCT CURB TYPE 'A' VERTICAL CURB TO TYPE 'C' ROLL CURB TRANSITION PER MAG STD DET 221 (MODIFIED LENGTH 5' OR AS NOTED ON PROFILE)
 - 6 CONSTRUCT CURB & GUTTER SECTION TRANSITION FROM VERTICAL TO 2' WIDE MODIFIED VALLEY GUTTER SECTION MATCH CURB HEIGHT ON EACH SIDE (LENGTH PER PROFILE)
 - 7 CONSTRUCT 4" CONCRETE SIDEWALK PER MAG STD DET 230 & PER STRUCTURAL SECTION NO. 3 SHT 3
 - 8 CONSTRUCT CONCRETE SIDEWALK RAMP PER CITY OF PHOENIX STD DET P1238-1 SHT 3 (MODIFIED TO BE 15' RADIUS, DEPRESS CURB THROUGH RAMP)
 - 9 RELAY SALVAGED BRICKS ON 4" COMPACTED PC CONCRETE BASE. USE TO TRANSITION BRICK DRIVEWAY TO NEW SIDEWALK CROSSING. USE MAG STD DET 225 AS GUIDE (MODIFIED NO CONC HEADER, BASE SHALL BE PCC)
 - 10 CONSTRUCT ASPHALT PAVEMENT PER STRUCTURAL SECTION NO. 1 SHT 3
 - 11 CONSTRUCT 6" CONC SIDEWALK ACROSS DRIVEWAY PER MAG STD DET 230 & PER STRUCTURAL SECTION NO. 4 SHT 3
 - 12 CONSTRUCT CONCRETE VALLEY GUTTER PER DET 2, SHT 3 WIDTH AS NOTED ON PLAN
 - 13 INSTALL CATCH BASIN PER MAG STD DET 535, TYPE 'F'
 - 14 INSTALL 15" RGRCP STORM DRAIN PIPE; DET A, SHT 7
 - 15 CONNECT TO EXISTING STORM DRAIN MANHOLE
 - 16 CONSTRUCT ASPHALT PAVEMENT PER STRUCTURAL SECTION NO. 2 SHT 3
 - 17 ADJUST VALVE BOX FRAME & COVER PER MAG STD DET 270
 - 18 ADJUST WATER METER TO GRADE
 - 19 ADJUST FIRE HYDRANT TO NEW SIDEWALK GRADE
 - 20 INSTALL CHAINLINK FENCE PER MAG STD DET 160 (MODIFIED 48" TALL) PER DET 3, SHT 3
 - 21 INSTALL CURB TERMINATION SECTION PER MAG STD DET 222
 - 22 INSTALL CONCRETE SINGLE CURB PER MAG STD DET 222, TYPE B (MODIFIED HEIGHT PER PLAN WITH NO. 4 REBAR) SEE DET 3 ON SHT 3



GENERAL NOTES

1. CONCRETE SIDEWALKS TO BE CONSTRUCTED AGAINST MASONRY WALL, RETAINING WALL OR BUILDING TO PROVIDE AN EXPANSION JOINT SEPARATOR

LEGEND

- EXISTING DRIVEWAY
- EXISTING SIDEWALK
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED APRON/VALLEY GUTTER
- PROPOSED 6" SINGLE CURB

SCALE

HORIZ: 1" = 10'
VERT: 1" = 2'

REVISIONS		
NO.	DESCRIPTION	DATE

6150 NORTH 16TH STREET
 PHOENIX, AZ 85016
 602.977.1155
 (602) 263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

PROJECT No: P4688-0
 DATE: 02/29/2016
 SHEET 5 OF 10

Registered Professional Engineer
 34425
 DALE E. MILLER
 License No. 2192
 AZCWA U.S.A.
 Expires: 12-31-17

rickengineering.com
 COPYRIGHT 2016
 RICK ENGINEERING COMPANY

DESIGNED: MFS
 DRAWN: MFS