CITY CLERK
ORIGINAL

C-7879
12/20/2011

CONSTRUCTION AGREEMENT

This Construction Agreement ("Agreement") is entered into this 20th day of December, 20 11, and is effective between the City of Glendale, an Arizona municipal corporation ("City"), and JK Communications & Construction, Inc., an Arizona corporation authorized to do business in the State of Arizona ("Contractor").

RECITALS

A. City intends to undertake a project for the benefit of the public, with public funds, that is more fully set forth in **Exhibit A** attached ("Project");

B. City desires to retain the services of Contractor to perform those specific duties and produce the specific work as set forth in the Project;

C. City and Contractor desire to memorialize their agreement with this document.

AGREEMENT

In consideration of the Recitals, which are confirmed as true and correct and incorporated by this reference, the mutual promises and covenants contained in this Agreement, and other good and valuable consideration, City and Contractor agree as follows:

1. Project.

1.1 Scope. Contractor will provide all services and material necessary to assure the Project is completed timely and efficiently consistent with Project requirements, including, but not limited to, working in close interaction and interfacing with City and its designated employees, and working closely with others, including other contractors, providers or consultants retained by City.

1.2 Project Team.

a. Project Manager. Contractor will designate an employee as Project Manager with sufficient training, knowledge, and experience to, in the City's opinion, to complete the Project and handle all aspects of the Project such that the work produced by Contractor is consistent with applicable standards as detailed in this Agreement.

b. Project Team.

(1) The Project Manager and all other employees assigned to the Project by Contractor will comprise the "Project Team."

(2) Project Manager will have responsibility for and will supervise all other employees assigned to the Project by Contractor.

c. Sub-contractors.

(1) Contractor may engage specific technical contractor (each a "Sub-contractor") to furnish certain service functions.

(2) Contractor will remain fully responsible for Sub-contractor's services.

(3) Sub-contractors must be approved by the City, unless the Sub-contractor was previously mentioned in the response to the solicitation.

(4) Contractor shall certify by letter that contracts with Sub-contractors have been executed incorporating requirements and standards as set forth in this Agreement.

2. Schedule. The Project will be undertaken in a manner that ensures it is completed in a timely and efficient manner. If not otherwise stated in Exhibit A, the Project shall be completed no later than December 28, 2011.

3. Contractor's Work.

3.1 Standard. Contractor must perform services in accordance with the standards of due diligence, care, and quality prevailing among contractors having substantial experience with the successful furnishing of services and materials for projects that are equivalent in size, scope, quality, and other criteria under the Project and identified in this Agreement.

3.2 Licensing. Contractor warrants that:

a. Contractor and Sub-contractors will hold all appropriate and required licenses, registrations and other approvals necessary for the lawful furnishing of services ("Approvals"); and

b. Neither Contractor nor any Sub-contractor has been debarred or otherwise legally excluded from contracting with any federal, state, or local governmental entity ("Debarment").

(1) City is under no obligation to ascertain or confirm the existence or issuance of any Approvals or Debarments or to examine Contractor's contracting ability.

(2) Contractor must notify City immediately if any Approval or Debarment changes during the Agreement's duration and the failure of the Contractor to notify City as required will constitute a material default of this Agreement.

3.3 Compliance. Services and materials will be furnished in compliance with applicable federal, state, county and local statutes, rules, regulations, ordinances, building codes, life safety codes, or other standards and criteria designated by City.

3.4 Coordination; Interaction.

a. If the City determines that the Project requires the coordination of professional services or other providers, Contractor will work in close consultation with City to proactively interact with any other contractors retained by City on the Project ("Coordinating Entities").

b. Subject to any limitations expressly stated in the budget, Contractor will meet to review the Project, schedules, budget, and in-progress work with Coordinating Entities and the City as often and for durations as City reasonably considers necessary in order to ensure the timely work delivery and Project completion.

c. If the Project does not involve Coordinating Entities, Contractor will proactively interact with any other contractors when directed by City to obtain or disseminate timely information for the proper execution of the Project.

3.5 Hazardous Substances. Contractor is responsible for the appropriate handling, disposal of, and if necessary, any remediation and all losses and damages to the City, associated with the use or release of hazardous substances by Contractor in connection with completion of the Project.

3.6 Warranties. At any time within two years after completion of the Project, Contractor must, at Contractor's sole expense and within 20 days of written notice from the City, uncover, correct and remedy all defects in Contractor's work. City will accept a manufacturer's warranty on approved equipment.

3.7. Bonds. Upon execution of this Agreement, and if applicable, Contractor must furnish Payment and Performance Bonds as required under A.R.S. § 34-608.

4. Compensation for the Project.

4.1 Compensation. Contractor's compensation for the Project, including those furnished by its Sub-contractors will not exceed $37,380.00, as specifically detailed in **Exhibit B** ("Compensation").

4.2 Change in Scope of Project. The Compensation may be equitably adjusted if the originally contemplated scope of services as outlined in the Project is significantly modified by the City.

a. Adjustments to the Scope or Compensation require a written amendment to this Agreement and may require City Council approval.

b. Additional services which are outside the scope of the Project and not contained in this Agreement may not be performed by the Contractor without prior written authorization from the City.

5. Billings and Payment.

5.1 Applications.

a. Unless Exhibit B (Compensation) dictates otherwise, the Contractor will submit monthly invoices (each, a "Payment Application") to City's Project Manager and City will remit payments based upon the Payment Application as stated below.

b. The period covered by each Payment Application will be one calendar month ending on the last day of the month.

5.2 Payment.

a. After a full and complete Payment Application is received, City will process and remit payment within 30 days.

b. Payment may be subject to or conditioned upon City's receipt of:

(1) Completed work generated by Contractor and its Sub-contractors; and

(2) Unconditional waivers and releases on final payment from Sub-contractors as City may reasonably request to assure the Project will be free of claims arising from required performances under this Agreement.

5.3 Review and Withholding. City's Project Manager will timely review and certify Payment Applications.

a. If the Payment Application is rejected, the Project Manager will issue a written listing of the items not approved for payment.

b. City may withhold an amount sufficient to pay expenses that City reasonably expects to incur in correcting the deficiency or deficiencies rejected for payment.

c. Contractor will provide, by separate cover, and concurrent with the execution of this Agreement, all required financial information to the City, including City of Glendale Transaction Privilege License and Federal Taxpayer identification numbers.

d. City will temporarily withhold Compensation amounts as required by A.R.S. § 34-221(C).

6. Termination.

6.1 For Convenience. City may terminate this Agreement for convenience, without cause, by delivering a written termination notice stating the effective termination date, which may not be less than 15 days following the date of delivery.

a. Contractor will be equitably compensated any services and materials furnished prior to receipt of the termination notice and for reasonable costs incurred.

b. Contractor will also be similarly compensated for any approved effort expended and approved costs incurred that are directly associated with Project closeout and delivery of the required items to the City.

6.2 For Cause. City may terminate this Agreement for cause if Contractor fails to cure any breach of this Agreement within seven days after receipt of written notice specifying the breach.

a. Contractor will not be entitled to further payment until after City has determined its damages. If City's damages resulting from the breach, as determined by City, are less than

the equitable amount due but not paid Contractor for Service and Repair furnished, City will pay the amount due to Contractor, less City's damages.

b. If City's direct damages exceed amounts otherwise due to Contractor, Contractor must pay the difference to City immediately upon demand; however, Contractor will not be subject to consequential damages more than $1,000,000 or the amount of this Agreement, whichever is greater.

7. Insurance.

7.1 Requirements. Contractor must obtain and maintain the following insurance ("Required Insurance"):

a. Contractor and Sub-contractors. Contractor, and each Sub-contractor performing work or providing materials related to this Agreement must procure and maintain the insurance coverages described below (collectively "Contractor's Policies"), until each Parties' obligations under this Agreement are completed.

b. General Liability.

(1) Contractor must at all times relevant hereto carry a commercial general liability policy with a combined single limit of at least $1,000,000 per occurrence and $2,000,000 annual aggregate.

(2) Sub-contactors must at all times relevant hereto carry a general commercial liability policy with a combined single limit of at least $1,000,000 per occurrence.

(3) This commercial general liability insurance must include independent contractors' liability, contractual liability, broad form property coverage, products and completed operations, XCU hazards if requested by the City, and a separation of insurance provision.

(4) These limits may be met through a combination of primary and excess liability coverage.

c. Auto. A business auto policy providing a liability limit of at least $1,000,000 per accident for Contractor and 1,000,000 per accident for Sub-contractors and covering owned, non-owned and hired automobiles.

d. Workers' Compensation and Employer's Liability. A workers' compensation and employer's liability policy providing at least the minimum benefits required by Arizona law.

e. Equipment Insurance. Contractor must secure, pay for, and maintain all-risk insurance as necessary to protect the City against loss of owned, non-owned, rented or leased capital equipment and tools, equipment and scaffolding, staging, towers and forms owned or rented by Contractor or its Sub-contractors.

f. Notice of Changes. Contractor's Policies must provide for not less than 30 days' advance written notice to City Representative of:

(1) Cancellation or termination of Contractor or Sub-contractor's Policies;

(2) Reduction of the coverage limits of any of Contractor or and Sub-contractor's Policies; and

(3) Any other material modification of Contractor or Sub-contractor's Policies related to this Agreement.

g. Certificates of Insurance.

(1) Within 10 business days after the execution of the Agreement, Contractor must deliver to City Representative certificates of insurance for each of Contractor and Sub-contractor's Policies, which will confirm the existence or issuance of

Contractor and Sub-contractor's Policies in accordance with the provisions of this section, and copies of the endorsements of Contractor and Sub-contractor's Policies in accordance with the provisions of this section.

(2) City is and will be under no obligation either to ascertain or confirm the existence or issuance of Contractor and Sub-contractor's Policies, or to examine Contractor and Sub-contractor's Policies, or to inform Contractor or Sub-contractor in the event that any coverage does not comply with the requirements of this section.

(3) Contractor's failure to secure and maintain Contractor Policies and to assure Sub-contractor policies as required will constitute a material default under this Agreement.

h. Other Contractors or Vendors.

(1) Other contractors or vendors that may be contracted by Contractor with in connection with the Project must procure and maintain insurance coverage as is appropriate to their particular agreement.

(2) This insurance coverage must comply with the requirements set forth above for Contractor's Policies (e.g., the requirements pertaining to endorsements to name the parties as additional insured parties and certificates of insurance).

i. Policies. Except with respect to workers' compensation and employer's liability coverages, the City must be named and properly endorsed as additional insureds on all liability policies required by this section.

(1) The coverage extended to additional insureds must be primary and must not contribute with any insurance or self insurance policies or programs maintained by the additional insureds.

(2) All insurance policies obtained pursuant to this section must be with companies legally authorized to do business in the State of Arizona and acceptable to all parties.

7.2 Sub-contractors.

a. Contractor must also cause its Sub-contractors to obtain and maintain the Required Insurance.

b. City may consider waiving these insurance requirements for a specific Sub-contractor if City is satisfied the amounts required are not commercially available to the Sub-contractor and the insurance the Sub-contractor does have is appropriate for the Sub-contractor's work under this Agreement.

c. Contractor and Sub-contractors must provide to the City proof of Required Insurance whenever requested.

7.3 Indemnification.

a. To the fullest extent permitted by law, Contractor must defend, indemnify, and hold harmless City and its elected officials, officers, employees and agents (each, an "Indemnified Party," collectively, the "Indemnified Parties"), for, from, and against any and all claims, demands, actions, damages, judgments, settlements, personal injury (including sickness, disease, death, and bodily harm), property damage (including loss of use), infringement, governmental action and all other losses and expenses, including attorneys' fees and litigation expenses (each, a "Demand or Expense," collectively, "Demands or Expenses") asserted by a third-party (i.e. a person or entity other than City or Contractor) and that arises out of or results from the breach of this Agreement by the Contractor or the Contractor's negligent actions, errors or omissions (including any Sub-contractor or

other person or firm employed by Contractor), whether sustained before or after completion of the Project.

b. This indemnity and hold harmless provision applies even if a Demand or Expense is in part due to the Indemnified Party's negligence or breach of a responsibility under this Agreement, but in that event, Contractor shall be liable only to the extent the Demand or Expense results from the negligence or breach of a responsibility of Contractor or of any person or entity for whom Contractor is responsible.

c. Contractor is not required to indemnify any Indemnified Parties for, from, or against any Demand or Expense resulting from the Indemnified Party's sole negligence or other fault solely attributable to the Indemnified Party.

7.4 Waiver of Subrogation. Contractor waives, and will require any Subcontractor to waive, all rights of subrogation against the City to the extent of all losses or damages covered by any policy of insurance.

8. **Immigration Law Compliance.**

8.1 Contractor, and on behalf any subcontractor, warrants, to the extent applicable under A.R.S. § 41-4401, compliance with all federal immigration laws and regulations that relate to their employees as well as compliance with A.R.S. § 23-214(A) which requires registration and participation with the E-Verify Program.

8.2 Any breach of warranty under subsection 8.1 above is considered a material breach of this Agreement and is subject to penalties up to and including termination of this Agreement.

8.3 City retains the legal right to inspect the papers of any Contractor or subcontractor employee who performs work under this Agreement to ensure that the Contractor or any subcontractor is compliant with the warranty under subsection 8.1 above.

8.4 City may conduct random inspections, and upon request of City, Contractor shall provide copies of papers and records of Contractor demonstrating continued compliance with the warranty under subsection 8.1 above. Contractor agrees to keep papers and records available for inspection by the City during normal business hours and will cooperate with City in exercise of its statutory duties and not deny access to its business premises or applicable papers or records for the purposes of enforcement of this section.

8.5 Contractor agrees to incorporate into any subcontracts under this Agreement the same obligations imposed upon Contractor and expressly accrue those obligations directly to the benefit of the City. Contractor also agrees to require any subcontractor to incorporate into each of its own subcontracts under this Agreement the same obligations above and expressly accrue those obligations to the benefit of the City.

8.6 Contractor's warranty and obligations under this section to the City is continuing throughout the term of this Agreement or until such time as the City determines, in its sole discretion, that Arizona law has been modified in that compliance with this section is no longer a requirement.

8.7 The "E-Verify Program" above means the employment verification program administered by the United States Department of Homeland Security, the Social Security Administration, or any successor program.

9. **Conflict.** Contractor acknowledges this Agreement is subject to A.R.S. § 38-511, which allows for cancellation of this Agreement in the event any person who is significantly involved in initiating, negotiating, securing, drafting, or creating the Agreement on City's behalf is also an employee, agent, or consultant of any other party to this Agreement.

10. **Foreign Prohibitions.** Contractor certifies under A.R.S. §§ 35-391 *et seq.*, and 35-393 *et seq.*, that it does not have, and during the term of this Agreement will not have, "scrutinized" business operations, as defined in the preceding statutory sections, in the countries of Sudan or Iran.

11. **Non-Discrimination Policies.** Contractor must not discriminate against any employee or applicant for employment on the basis of race, religion, color sex or national origin. Contractor must develop, implement and maintain non-discrimination policies and post the policies in conspicuous places visible to employees and applicants for employment. Contractor will require any Sub-contractor to be bound to the same requirements as stated within this section.

12. **Notices.**

12.1 A notice, request or other communication that is required or permitted under this Agreement (each a "Notice") will be effective only if:

a. The Notice is in writing, and

b. Delivered in person or by private express overnight delivery service (delivery charges prepaid), certified or registered mail (return receipt requested).

c. Notice will be deemed to have been delivered to the person to whom it is addressed as of the date of receipt, if:

(1) Received on a business day, or before 5:00 p.m., at the address for Notices identified for the Party in this Agreement by U.S. Mail, hand delivery, or overnight courier on or before 5:00 p.m.; or

(2) As of the next business day after receipt, if received after 5:00 p.m.

d. The burden of proof of the place and time of delivery is upon the Party giving the Notice.

e. Digitalized signatures and copies of signatures will have the same effect as original signatures.

12.2 Representatives.

a. Contractor. Contractor's representative ("Contractor's Representative") authorized to act on Contractor's behalf with respect to the Project, and his or her address for Notice delivery is:

JK Communications & Construction
Attn: Jimmy Oatis
PO Box 62013
Phoeix, AZ 85082

b. City. City's representative ("City's Representative") authorized to act on City's behalf, and his or her address for Notice delivery is:

City of Glendale
Attn: Debbie Albert
Principal Traffic Engineer
5850 West Glendale Avenue
Glendale, Arizona 85301

With required copies to:

City of Glendale
City Manager
5850 West Glendale Avenue
Glendale, Arizona 85301

City of Glendale
City Attorney
5850 West Glendale Avenue
Glendale, Arizona 85301

c. Concurrent Notices.

(1) All notices to City's representative must be given concurrently to City Manager and City Attorney.

(2) A notice will not be considered to have been received by City's representative until the time that it has also been received by City Manager and City Attorney.

(3) City may appoint one or more designees for the purpose of receiving notice by delivery of a written notice to Contractor identifying the designee(s) and their respective addresses for notices.

d. Changes. Contractor or City may change its representative or information on Notice, by giving Notice of the change in accordance with this section at least ten days prior to the change.

13. Financing Assignment. City may assign this Agreement to any City-affiliated entity, including a non-profit corporation or other entity whose primary purpose is to own or manage the Project.

14. Entire Agreement; Survival; Counterparts; Signatures.

14.1 Integration. This Agreement contains, except as stated below, the entire agreement between City and Contractor and supersedes all prior conversations and negotiations between the parties regarding the Project or this Agreement.

a. Neither Party has made any representations, warranties or agreements as to any matters concerning the Agreement's subject matter.

b. Representations, statements, conditions, or warranties not contained in this Agreement will not be binding on the parties.

c. Any solicitation, addendums and responses submitted by the Contractor are incorporated fully into this Agreement as Exhibit A. Any inconsistency between Exhibit A and this Agreement will be resolved by the terms and conditions stated in this Agreement.

14.2 Interpretation.

a. The parties fairly negotiated the Agreement's provisions to the extent they believed necessary and with the legal representation they deemed appropriate.

b. The parties are of equal bargaining position and this Agreement must be construed equally between the parties without consideration of which of the parties may have drafted this Agreement.

c. The Agreement will be interpreted in accordance with the laws of the State of Arizona.

14.3 Survival. Except as specifically provided otherwise in this Agreement each warranty, representation, indemnification and hold harmless provision, insurance requirement, and every other right, remedy and responsibility of a Party, will survive completion of the Project, or the earlier termination of this Agreement.

14.4 Amendment. No amendment to this Agreement will be binding unless in writing and executed by the parties. Any amendment may be subject to City Council approval.

14.5 Remedies. All rights and remedies provided in this Agreement are cumulative and the exercise of any one or more right or remedy will not affect any other rights or remedies under this Agreement or applicable law.

14.6 Severability. If any provision of this Agreement is voided or found unenforceable, that determination will not affect the validity of the other provisions, and the voided or unenforceable provision will be reformed to conform to applicable law.

14.7 Counterparts. This Agreement may be executed in counterparts, and all counterparts will together comprise one instrument.

15. Dispute Resolution. Each claim, controversy and dispute ("Dispute") between Contractor and City will be resolved in accordance with Exhibit C. The final determination will be made by the City.

16. **Exhibits.** The following exhibits, with reference to the term in which they are first referenced, are incorporated by this reference.

Exhibit A	Project
Exhibit B	Compensation
Exhibit C	Dispute Resolution

(The remainder of this page left blank intentionally. Signatures appear on the following page.)

The parties enter into this Agreement as of the date shown above.

City of Glendale,
an Arizona municipal corporation

By: Jamsheed Mehta, AICP
Its: Executive Director, Transportation Services

ATTEST:

City Clerk (SEAL)

APPROVED AS TO FORM:

City Attorney

JK Communities and Constructors, Inc.
a Corporation

By: Jimmy Oatis
Its: General Manager

WOMEN-OWNED/MINORITY BUSINESS [ ] YES [ ] NO

EXHIBIT A
CONSTRUCTION AGREEMENT

PROJECT

[See attached]

KLEVEN CONSTRUCTION
KLEVEN COMMUNICATIONS
Divisions of JK Communications & Construction, Inc.

December 12, 2011

City of Glendale
ATTN Mark Gibson

RE: Greenway Rd

Mark

JK Communications and Construction, Inc. are submitting this proposal to perform work on the above referenced project. The scope of work and pricing is as follows. The scope of work is based on the drawings Greenway rd. depicting the following approximate quantities:

Approx. 4200' of underground with 4-1.25" conduits placed in same bore with TCG

Total Lump Sum: $37,380.00

Inclusions: Labor, Equipment, Traffic Control, Restoration Materials, Conduit & Fittings.

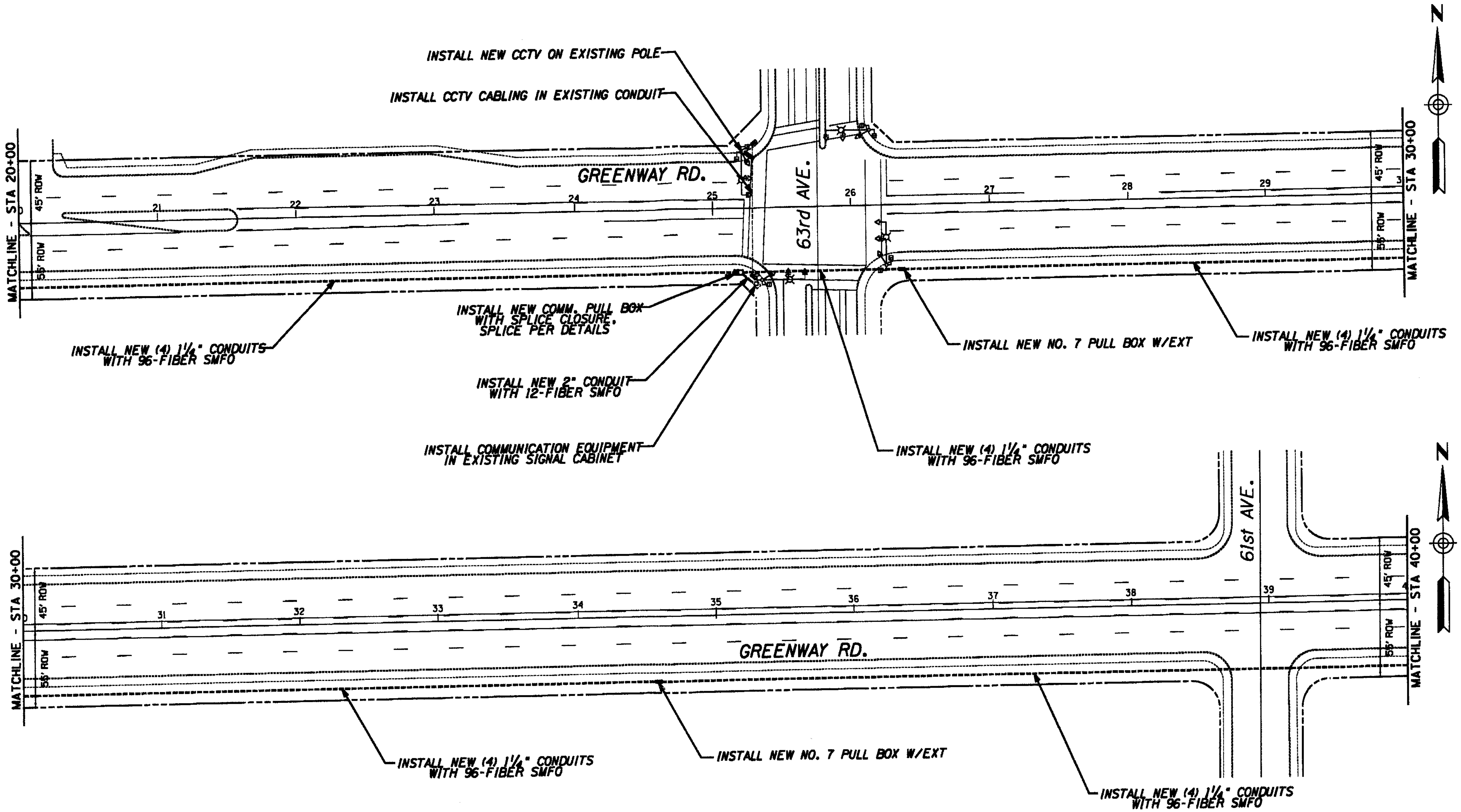
Exclusions: Engineering, Permits, Survey, Bonds, Fee's, Fiber, Test Stations, Vaults, Manholes

Respectfully,

Jimmy Oatis

Jimmy Oatis
General Manager
JK Communications & Construction, Inc.

P.O. Box 62013 Phoenix AZ 85082 - telephone (480) 736-8400 - fax (480) 736-8410



NO.1	DESCRIPTION OF REVISION	MADE BY	DATE	NO.2	DESCRIPTION OF REVISION	MADE BY	DATE

	NAME	DATE
DESIGN	JJP	7/11
DRAWN	JJP	7/11
CHECKED	DB	7/11

CITY OF GLENDALE
TRANSPORTATION DEPARTMENT

GREENWAY RD.
20+00 STA TO 40+00 STA

ROUTE

LOCATION CACTUS, GREENWAY AND THUNDERBIRD ITS FIBER CONNECTIONS

PRELIMINARY
30%
REVIEW
NOT FOR CONSTRUCTION OR RECORDING

SHEET 14 OF 28

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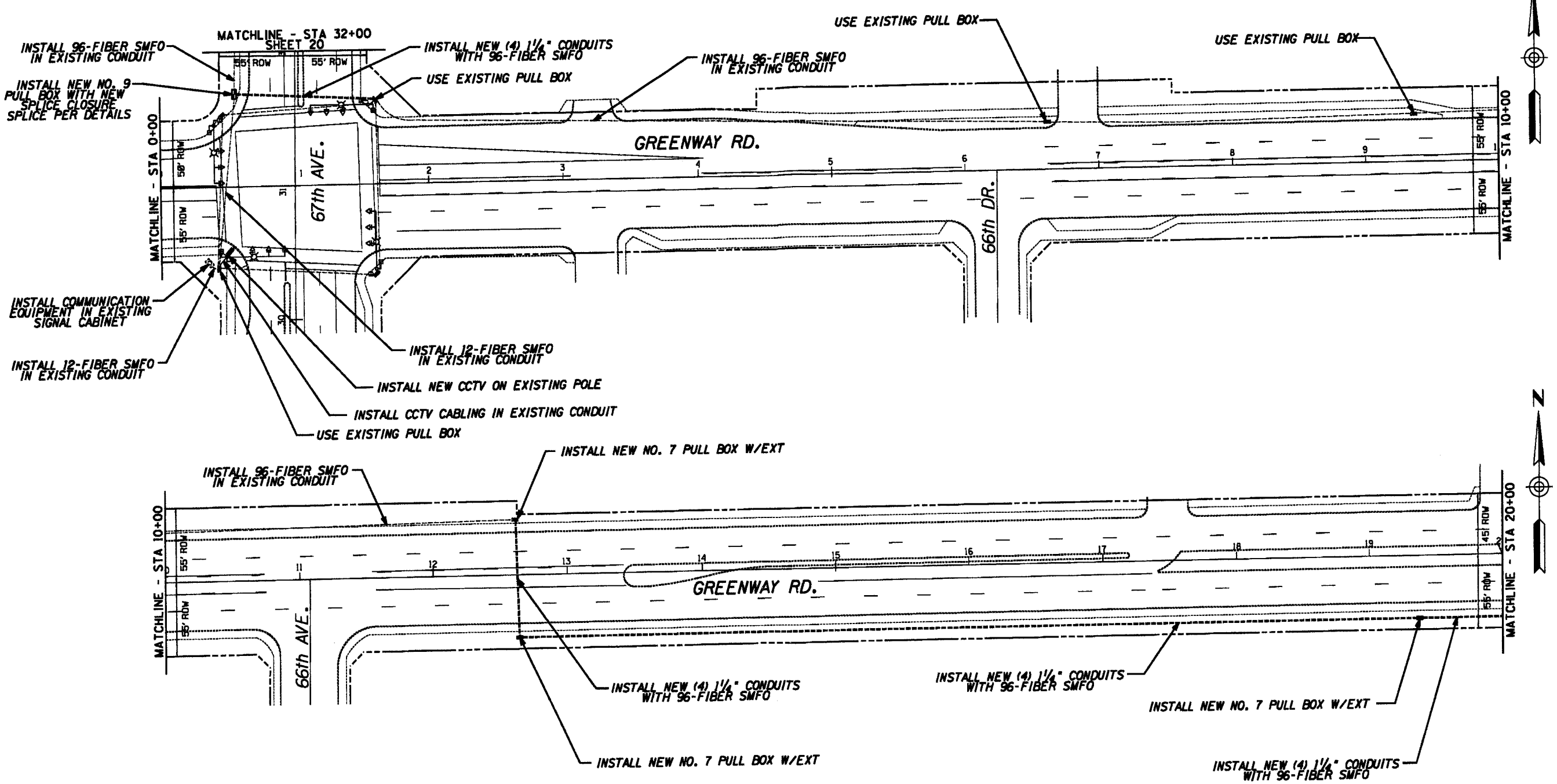

	NAME	DATE
DESIGN	JJP	7/11
DRAWN	JJP	7/11
CHECKED	DB	7/11

ROUTE

LOCATION: CACTUS, GREENWAY AND THUNDERBIRD ITS FIBER CONNECTIONS

CITY OF GLENDALE
TRANSPORTATION DEPARTMENT

GREENWAY RD.
0+00 STA TO 20+00 STA

PRELIMINARY
30%
REVIEW
NOT FOR CONSTRUCTION OR RECORDING

SHEET 13 OF 28

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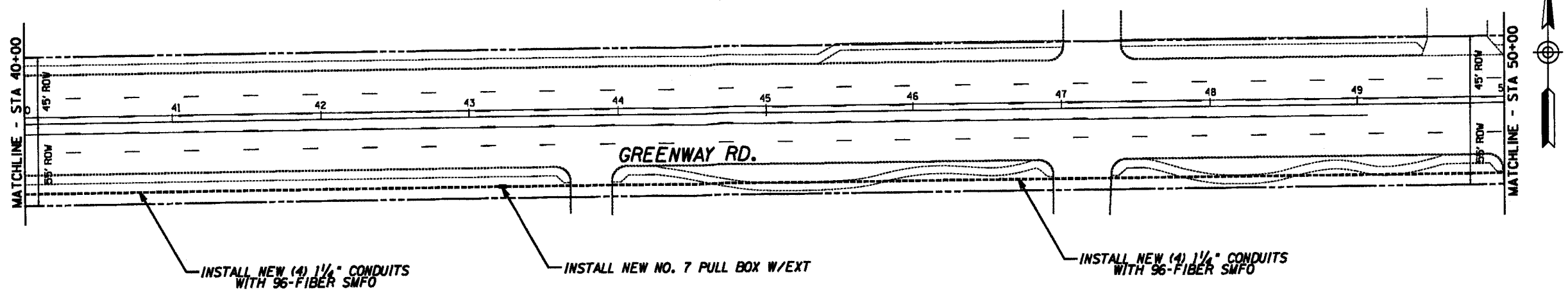

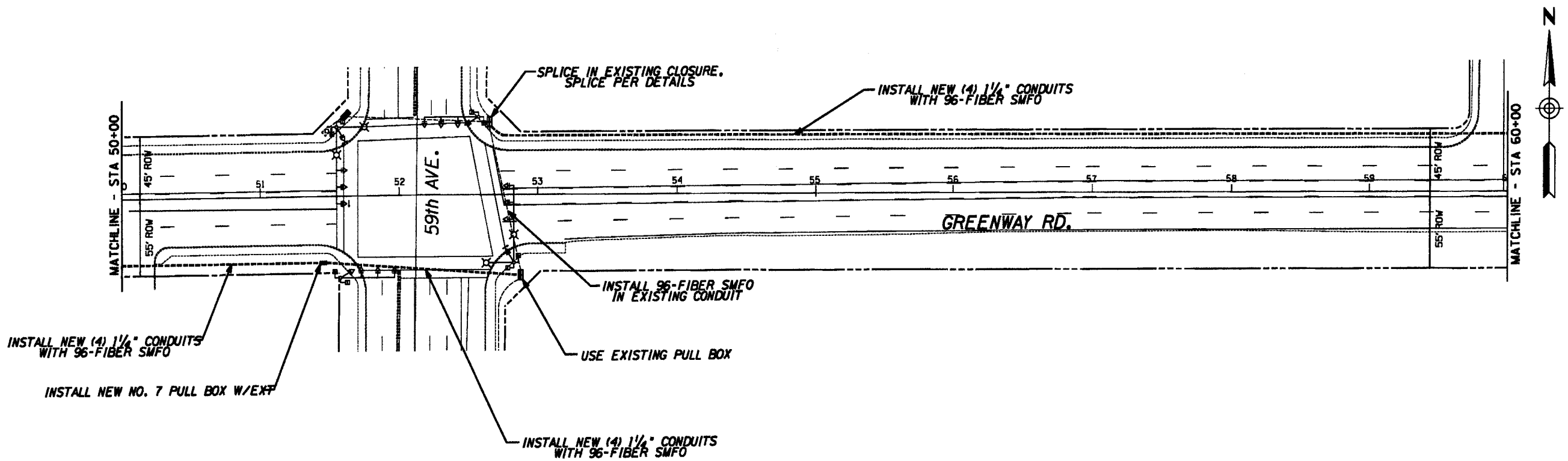

	NAME	DATE
DESIGN	JJP	7/11
DRAWN	JJP	7/11
CHECKED	DB	7/11

ROUTE

LOCATION

CITY OF GLENDALE
TRANSPORTATION DEPARTMENT

GREENWAY RD.
40+00 STA TO 60+00 STA

CACTUS, GREENWAY AND THUNDERBIRD
ITS FIBER CONNECTIONS

PRELIMINARY
30%
REVIEW
NOT FOR CONSTRUCTION OR RECORDING

SHEET 15 OF 28

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NO.1 DESCRIPTION OF REVISION MADE BY DATE
NO.2 DESCRIPTION OF REVISION MADE BY DATE

STA 3+75 S MATCH ABOVE RIGHT

5.5' S/W
35' B/C
53' E
55' R/W
49' PROPOSED R/L

STA 3+16 S 44' RT
SIGN

STA 2+84.5 S 49' RT
VAC POT E

STA 2+84.5 S 38' RT
STREET LIGHT

STA 2+82 S 38' RT
POWER BOX

STA. 2+82 S. HAND DIG MAINTAIN MIN. CLEARANCE

STA. 2+55 S 49' RT
PLACE TCG VAULT (3'X4')

ARROWWOOD

STA. 0+62 S 51' RT
PLACE 3' R 45° BEND
STA. 0+60 S 52' RT
VAC POT / UKN TV

STA 0+66 S 58' LT
TRAFFIC SIGNAL BOX

STA 0+62 S 77' LT
TRANSFORMER

STA 0+61 S 92' LT
ELEC. CABINET

STA 0+57 S 67' LT
TRAFFIC SIGNAL CABINET

STA 0+55 S 58' LT
TRAFFIC SIGNAL BOX

STA 0+52' S 53' LT
TRAFFIC SIGNAL POLE

STA. 0+60 S. HAND DIG MAINTAIN MIN. CLEARANCE

STA. 0+39 S 39' RT
PLACE TCG VAULT(3'x4')
PLACE 3' R 45° BEND

67th AVENUE

GREENWAY ROAD

SEE SHEET 03 FOR CONTINUATION

STA 8+75 S MATCH SHEET 01

PROPSED 12' EASEMENT

RIP-RAP

MARICOPA COUNTY FLOOD CONTROL

STA 7+79 S 15'-6" RT
SEWER MH

STA 7+79 S 49' RT
VAC POT S

STA 7+23 S 49' RT
VAC POT S

STA 7+23 S 14' RT
SEWER MH

PARK ENTRANCE

STA 7+16 S 49' RT
VAC POT SD

MARICOPA COUNTY
FLOOD CONTROL

STA. 6+78 S 49' RT
BORE PIT(4'x4')

STA 6+78 S 38' RT
WATER VALVE

STA 6+69 S 13' RT
SEWER MH

STA 6+23 S 49' RT
VAC POT E

STA 6+23 S 35' RT
STREET LIGHT

STA 6+23 S 39' RT
POWER BOX

ARROWWOOD

STA. 5+27 S. HAND DIG MAINTAIN MIN. CLEARANCE

STA 5+27 S 49' RT
VAC POT E

STA 5+27 S 38'-6" RT
STREET LIGHT

STA 5+24 S 38' RT
POWER BOX

35' B/C
53' E
5.5' S/W
55' R/W
49' PROPOSED R/L

67th AVENUE

STA 3+75 S MATCH BELOW LEFT

SCALE: 1" = 40'

0' 10' 20' 40' 80'

CALL TWO WORKING DAYS BEFORE YOU DIG
(602) 263-1100
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

CONSTRUCTION NOTES:
1. RESTORE CONCRETE PER MAG SPEC. SECTIONS 340 & 601
2. ALL POTHOLES RESTORED PER MAG SPEC. SECTIONS 340 & C110.
3. CURB AND GUTTER WILL NOT BE DISTURBED
4. CURB AND GUTTER WILL BE SHORED TO PREVENT SETTLING

T. 3 N., R. 2 E. NE1/4 & NW1/4 Sec. 7
GREENWAY RD.
SITE
67th AVE.
ACOMA DR.
63rd AVE.
THUNDERBIRD RD.
59th AVE.
VICINITY MAP

"AS BUILT" NOTICE TO CONTRACTOR

THE CONTRACTOR SHALL PROVIDE APPROPRIATE PROFESSIONALS, INCLUDING AN REGISTERED LAND SURVEYOR, TO PROVIDE ALL NECESSARY "AS BUILT" INFORMATION TO ENABLE ALL FINAL PERMITS, INSPECTIONS, SIGNOFFS AND CERTIFICATES TO BE ISSUED BY ALL NECESSARY JURISDICTIONS.

REFERENCES	
CITY UTILITIES	34-12, 34-13, 34-14
RIGHT-OF-WAY	34-12, 34-13, 34-14
COX	34-13, 34-14, 34-15
QWEST	-
APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	-
OTHER1	-
OTHER2	-

DRAFTED BY: PARAMOUNT DESIGNS -LR / BT
FOR: [redacted] Designs, Inc.

TOTAL PROJECT FOOTAGE	PAGE FOOTAGE	
7100'	813'	813'
TRENCH: -	BORE: 813'	ASPHALT CUT: -

TCG PHOENIX

14902 N. 67th AVENUE

LOCATION: 67th Ave & Greenway Rd
PROJECT NAME: 14902 N. 67th Ave
PROJECT NUMBER: 113047
CITY: Glendale
SECTION: T. 3 N. R. 2 E.
NODE: 7
QUARTER SECTION: -
HUB: -
DATE: 09-30-11
SHEET: 2 OF 8
INSPECTION AREA: INSPECT
REVIEWER:
REVISION #:

P224 | 113047

UTILITY PLAN NOTES CITY OF GLENDALE

A. ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST MAG STANDARD DETAILS AND SPECIFICATIONS AND THE CITY'S SUPPLEMENTAL DETAILS AND SPECIFICATIONS.

B. 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. REVIEW AND APPROVAL OF PLANS DOES NOT RELEASE ANY DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS ON SAID PLANS.

C. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.

D. THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. 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.

E. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITES AT ALL TIMES.

F. 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.

G. A RIGHT-OF-WAY CONSTRUCTION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE THE PUBLIC RIGHT-OF-WAY. A 100% PERFORMANCE BOND OR EQUIVALENT FORM OF FINANCIAL SURETY IS REQUIRED FOR ALL WORK WITHIN THE RIGHT-OF-WAY PRIOR TO THE ISSUANCE OF ANY RIGHT-OF-WAY CONSTRUCTION PERMIT(S). ALL CONTRACTORS WORKING WITHIN THE RIGHT-OF-WAY SHALL PROVIDE THE CITY WITH PROOF OF INSURANCE IN A FORM AND WITH LIMITS OF COVERAGE ACCEPTABLE TO THE CITY. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE INSPECTED AND APPROVED BY THE ENGINEERING DEPARTMENT OF THE CITY.

H. IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY.

I. THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.

J. THE DEVELOPER IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF PERMITS.

K. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF PERMITS.

L. THE CONTRACTOR SHALL CONTACT BLUE STAKE(263-1100) 48 HOURS PRIOR TO CONSTRUCTION.

M. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION.

N. THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM THE UTILITIES DEPARTMENT. 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.

O. PRIVATE ON-SITE WATER AND SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE AS ADOPTED BY THE CITY.

JOB NAME:	14902 N. 67th AVENUE
PSITE#:	P224
PDI NUMBER:	113047
JOB LOCATION:	67th AVE. & GREENWAY RD

	DRAWING INDEX
SHEET #	DESCRIPTION
A	COVER SHEET
B	DETAILS/LEGEND
1-8	ENGINEERING DRAWINGS (PLAN VIEW)
1b-3b	ENGINEERING DRAWINGS (PROFILE VIEW)

"AS BUILT" NOTICE TO CONTRACTOR

THE CONTRACTOR SHALL PROVIDE APPROPRIATE PROFESSIONALS, INCLUDING AN REGISTERED LAND SURVEYOR, TO PROVIDE ALL NECESSARY "AS BUILT" INFORMATION TO ENABLE ALL FINAL PERMITS, INSPECTIONS, SIGNOFFS AND CERTIFICATES TO BE ISSUED BY ALL NECESSARY JURISDICTIONS.

PREPARED FOR:

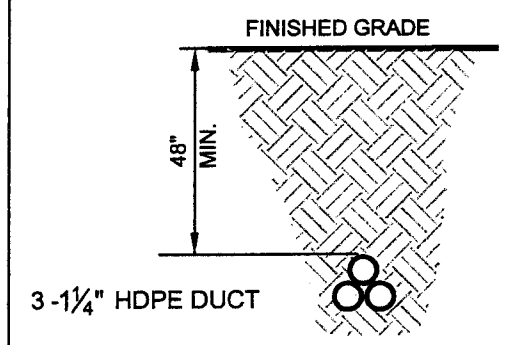
TCG

PHOENIX

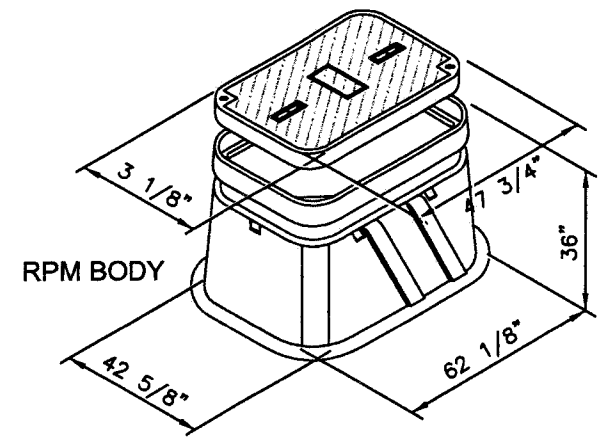
ENGINEERING FIRM: Paramount Designs, Inc.

COVER SHEET | A

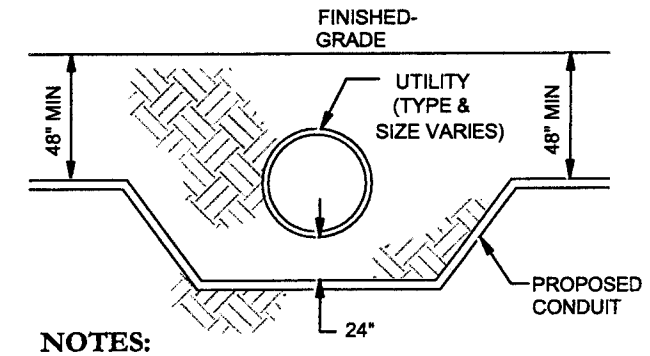
BORE DETAIL (1)



3' X 4' VAULT DETAIL



UTILITY CROSSING



NOTES:

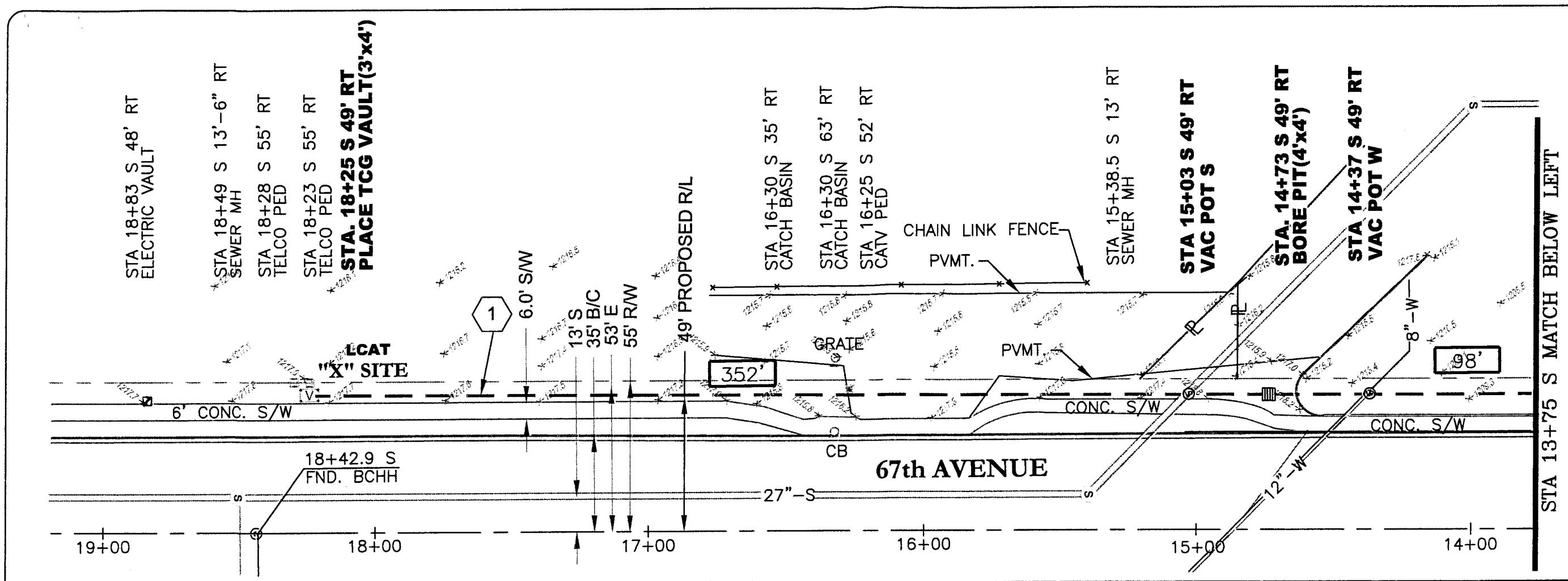
1. ALL DIMENSIONS SHOWN ARE MINIMUM DISTANCES
2. PROPOSED CONDUIT SHALL CROSS ALL EXISTING AND PROPOSED UTILITIES WITH A 24" MINIMUM VERTICAL CLEARANCE AND A 24" HORIZONTAL CLEARANCE
3. C.O.P WATER AND SEWER MAIN LINES REQUIRE MINIMUM 6' HORIZONTAL CLEARANCE.
4. C.O.P. WATER AND SEWER SERVICE LINES REQUIRE A MINIMUM 3' HORIZONTAL CLEARANCE

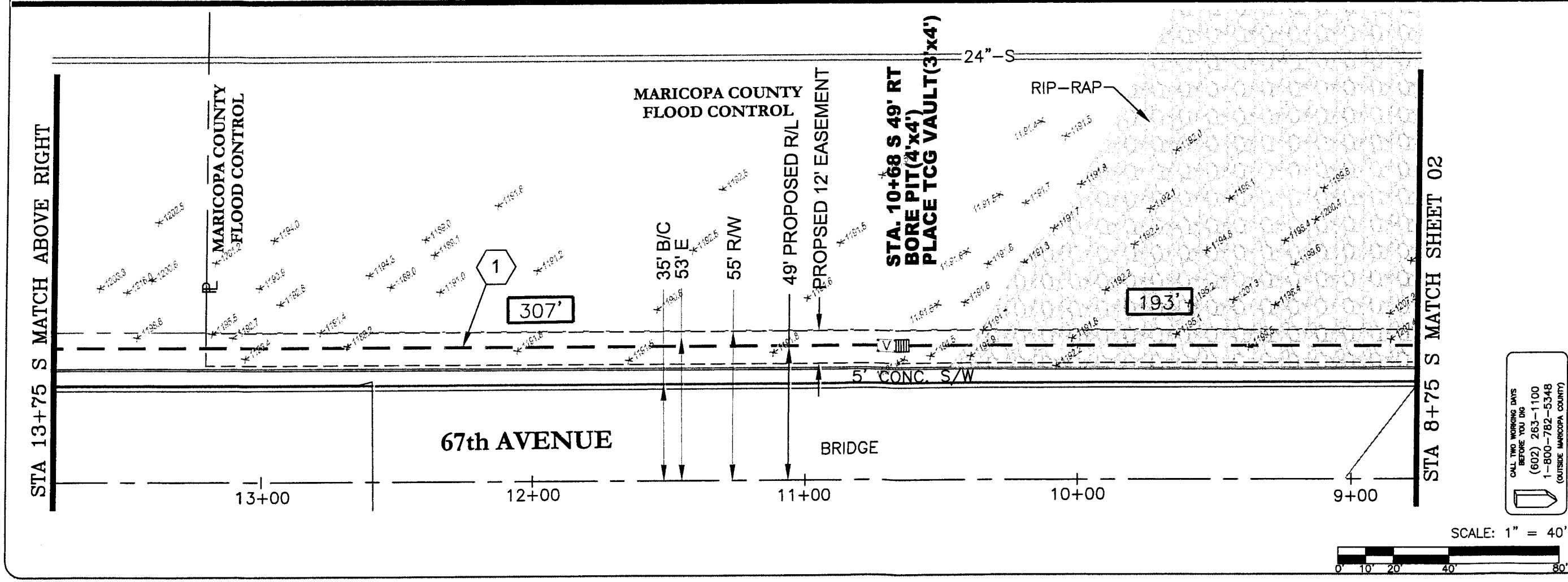
LEGEND

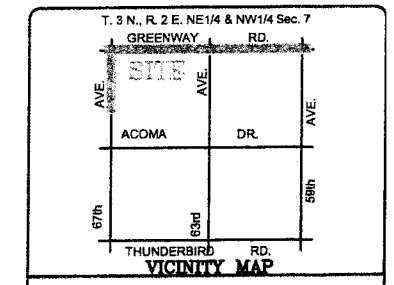
TRENCH	BORE	ASPHALT CUT
XX'	XX'	XX'

BORE PIT	90V POWER SUPPLY	TRAFFIC SIGNAL CABINET
VACUUM POTHOLE	60V POWER SUPPLY	TRAFFIC SIGNAL
ELE J-BOX	TELCO PED	WARNING SIGN
ELE CABINET	PULL BOX	WOOD POLE
NEW HANDHOLD	COX PED	METAL POLE
HANDHOLD	NEW COX PED	NEW VAULT
PRIVATE IRR	CA PED	EXISTING VAULT
SRP IRR	NEW CA PED	VALVE
DOWN GUY	STUB-UP	METER
FIRE HYDRANT	STREETLIGHT	CACTUS
MAILBOX	TRAFFIC SIGNAL VAULT	TREE
MANHOLE	TRANSFORMER	BUSH

JOB NAME: 14902 N. 67th AVENUE	
DETAILS/LEGENDS	B







VICINITY MAP

CONSTRUCTION NOTES:
1. RESTORE CONCRETE PER MAG SPEC. SECTIONS 340 & 601
2. ALL POTHOLES RESTORED PER MAG SPEC. SECTIONS 340 & C110.
3. CURB AND GUTTER WILL NOT BE DISTURBED
4. CURB AND GUTTER WILL BE SHORED TO PREVENT SETTLING

"AS BUILT" NOTICE TO CONTRACTOR

THE CONTRACTOR SHALL PROVIDE APPROPRIATE PROFESSIONALS, INCLUDING AN REGISTERED LAND SURVEYOR, TO PROVIDE ALL NECESSARY "AS BUILT" INFORMATION TO ENABLE ALL FINAL PERMITS, INSPECTIONS, SIGNOFFS AND CERTIFICATES TO BE ISSUED BY ALL NECESSARY JURISDICTIONS.

REFERENCES	
CITY UTLITIES	34-12, 34-13, 34-14
RIGHT-OF-WAY	34-12, 34-13, 34-14
COX	34-13, 34-14, 34-15
QWEST	-
APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	-
OTHER1	-
OTHER2	-

DRAFTED BY: PARAMOUNT DESIGNS -LR / BT

FOR: Paramount Designs, Inc.

TOTAL PROJECT FOOTAGE:	PAGE FOOTAGE:	
7100'	950'	
TRENCH: -	BORE: 950'	ASPHALT CUT: -

TCG PHOENIX

14902 N. 67th AVENUE

LOCATION:	67th Ave & Greenway Rd
PROJECT NAME:	14902 N. 67th Ave
PROJECT NUMBER:	113047
CITY: Glendale	SECTION: T. 3 N. R. 2 E. 7
QUARTER SECTION: --	HUB: - NODE: -
DATE: 09-30-11	SHEET: 1 OF 8 INSPECTION AREA: INSPECT
REVISION N:	
REVISION 9:	
P224	113047

CALL TWO WORKING DAYS BEFORE YOU DIG
(602) 263-1100
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

SCALE: 1" = 40'

0' 10' 20' 40' 80'

STA 33+50 E MATCH ABOVE RIGHT

STA 33+72 E 6' RT
SEWER MH

55' RW
6' S
51' W
34' B/C
46' G
40' R/L
39'-6" B/SW
5'-6" S/W
11'-6"
(R/L TO W)

STA. 34+97 E 40' RT
BORE PIT(4'X4')

STA 35+64 E 42' RT
POWER POLE

34+00
35+00
36+00
37+00
38+00

147'
334'
19'

12"-S
12"-W
4"-G(STL)
CONC. S/W

GREENWAY ROAD

37+91.3
NOTHING FND.

STA 37+42 E 43' RT
POWER POLE

39'-6" B/SW
40' R/L
55' RW
46' G
6' S
51' W
34'-6" B/C

STA. 38+02 E 40'RT
VAC POT / 8" W

STA 38+02 E 50' RT
WATER VALVE

STA 38+07 E 53' RT
WATER VALVE

STA. 38+31 E 40' RT
BORE PIT(4'X4')

STA 38+41 E 51' RT
WATER METER

61ST AVE

8"-W

STA 38+43 E 54' RT
BACKFLOW PREVENTER

STA 38+46 E 54' RT
ELECTRIC METER

STA 38+50 E MATCH SHEET 07

STA 28+50 E MATCH SHEET 05

39'-6" B/SW
55' RW
6' S
51' W
34' B/C
46' G

STA 29+10 E 42' RT
WOOD POLE

40' R/L
11'-6"
(R/L TO W)

STA. 30+39 E 40' RT
PL. TCG VAULT(3'X4')

STA 31+28 E 43' RT
WOOD POLE

29+00
30+00
31+00
32+00
33+00

189'
311'

12"-S
12"-W
4"-G(STL)
CONC. S/W

GREENWAY ROAD

5'-6" S/W
39'-6" B/SW
40' R/L
55' RW
6' S
51' W
34' B/C
46' G

STA 33+46 E 42'-6" RT
WOOD POLE

STA 33+50 E MATCH BELOW LEFT

SCALE: 1" = 40'

0 10' 20' 40' 80

CALL TWO WORKING DAYS BEFORE YOU DIG
(602) 263-1100
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

CONSTRUCTION NOTES:
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2. ALL POTHOLES RESTORED PER MAG SPEC. SECTIONS 340 & C110.
3. CURB AND GUTTER WILL NOT BE DISTURBED
4. CURB AND GUTTER WILL BE SHORED TO PREVENT SETTLING

VICINITY MAP

T. 3 N., R. 2 E. NE1/4 & NW1/4 Sec. 7

GREENWAY RD. — SITE — 67th AVE. — ACOMA DR. — 63rd AVE. — THUNDERBIRD RD. — 59th AVE.

REFERENCES	
CITY UTILITIES	34-12, 34-13, 34-14
RIGHT-OF-WAY	34-12, 34-13, 34-14
COX	34-13, 34-14, 34-15
QWEST	-
APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	-
OTHER1	-
OTHER2	-

DRAFTED BY: PARAMOUNT DESIGNS -LR / BT

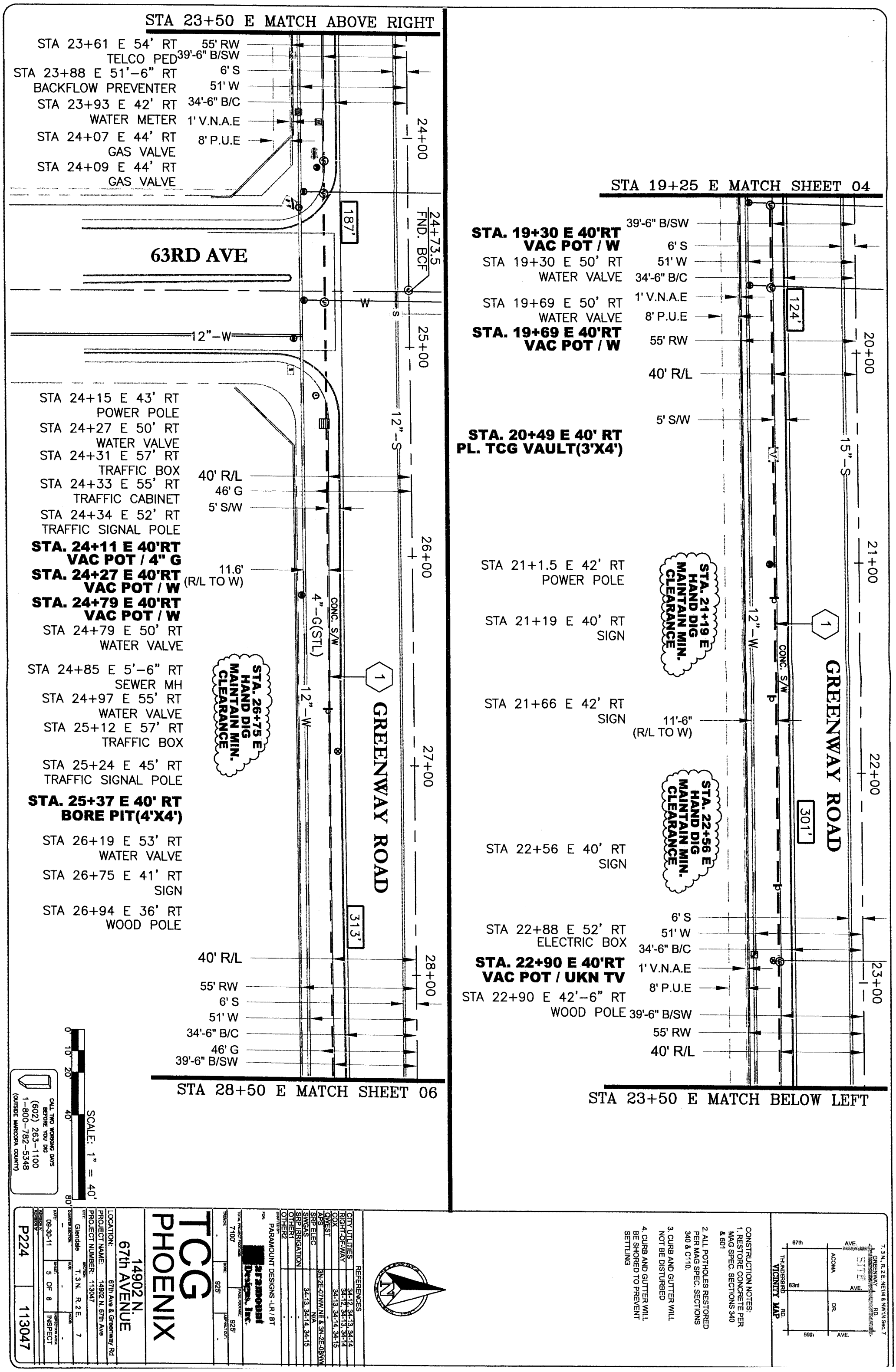
FOR: Paramount Designs, Inc.

TOTAL PROJECT FOOTAGE: 7100'
PAGE FOOTAGE: 1000'
TRENCH: -
BORE: 1000'
ASPHALT CUT: -

TCG PHOENIX

14902 N. 67th AVENUE

LOCATION: 67th Ave & Greenway Rd
PROJECT NAME: 14902 N. 67th Ave
PROJECT NUMBER: 113047
CITY: Glendale
SECTION: T. 3 N. R. 2 E. 7
QUARTER SECTION: -
HUB: -
NODE: -
DATE: 09-30-11
SHEET: 6 OF 8
INSPECTION AREA: INSPECT
REVISION N°: -
REVISION N°: -
P224
113047


STA 23+50 E MATCH ABOVE RIGHT
STA 23+61 E 54' RT
TELCO PED
STA 23+88 E 51'-6" RT
BACKFLOW PREVENTER
STA 23+93 E 42' RT
WATER METER
STA 24+07 E 44' RT
GAS VALVE
STA 24+09 E 44' RT
GAS VALVE
55' RW
39'-6" B/SW
6' S
51' W
34'-6" B/C
1' V.N.A.E
8' P.U.E
24+00
24+73.5
FND. BCF
187'
63RD AVE
W
S
12"-W
25+00
12"-S
STA 24+15 E 43' RT
POWER POLE
STA 24+27 E 50' RT
WATER VALVE
STA 24+31 E 57' RT
TRAFFIC BOX
STA 24+33 E 55' RT
TRAFFIC CABINET
STA 24+34 E 52' RT
TRAFFIC SIGNAL POLE
STA. 24+11 E 40'RT
VAC POT / 4" G
STA. 24+27 E 40'RT
VAC POT / W
STA. 24+79 E 40'RT
VAC POT / W
STA 24+79 E 50' RT
WATER VALVE
STA 24+85 E 5'-6" RT
SEWER MH
STA 24+97 E 55' RT
WATER VALVE
STA 25+12 E 57' RT
TRAFFIC BOX
STA 25+24 E 45' RT
TRAFFIC SIGNAL POLE
STA. 25+37 E 40' RT
BORE PIT(4'X4')
STA 26+19 E 53' RT
WATER VALVE
STA 26+75 E 41' RT
SIGN
STA 26+94 E 36' RT
WOOD POLE
40' R/L
46' G
5' S/W
11.6'
(R/L TO W)
CONC. S/W
4"-G(STL)
12"-W
STA. 26+75 E
HAND DIG
MAINTAIN MIN.
CLEARANCE
26+00
27+00
1
GREENWAY ROAD
313'
28+00
40' R/L
55' RW
6' S
51' W
34'-6" B/C
46' G
39'-6" B/SW
STA 28+50 E MATCH SHEET 06
STA 19+25 E MATCH SHEET 04
STA. 19+30 E 40'RT
VAC POT / W
STA 19+30 E 50' RT
WATER VALVE
STA 19+69 E 50' RT
WATER VALVE
STA. 19+69 E 40'RT
VAC POT / W
39'-6" B/SW
6' S
51' W
34'-6" B/C
1' V.N.A.E
8' P.U.E
55' RW
40' R/L
5' S/W
124'
20+00
STA. 20+49 E 40' RT
PL. TCG VAULT(3'X4')
15"-S
21+00
STA 21+1.5 E 42' RT
POWER POLE
STA 21+19 E 40' RT
SIGN
STA. 21+19 E
HAND DIG
MAINTAIN MIN.
CLEARANCE
12"-W
CONC. S/W
STA 21+66 E 42' RT
SIGN
11'-6"
(R/L TO W)
STA. 22+56 E
HAND DIG
MAINTAIN MIN.
CLEARANCE
22+00
301'
STA 22+56 E 40' RT
SIGN
6' S
STA 22+88 E 52' RT
ELECTRIC BOX
51' W
34'-6" B/C
STA. 22+90 E 40'RT
VAC POT / UKN TV
1' V.N.A.E
8' P.U.E
23+00
STA 22+90 E 42'-6" RT
WOOD POLE
39'-6" B/SW
55' RW
40' R/L
STA 23+50 E MATCH BELOW LEFT
SCALE: 1" = 40'
0' 10' 20' 40' 80'
CALL TWO WORKING DAYS
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(OUTSIDE MARICOPA COUNTY)
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4. CURB AND GUTTER WILL BE SHORED TO PREVENT SETTLING
VICINITY MAP
67th
AVE.
THUNDERBIRD
RD.
63rd
AVE.
59th
AVE.
ACOMA
DR.
SITE
T. 3 N., R. 2 E. NE1/4 & NW1/4 Sec. 7
GREENWAY
RD.
REFERENCES
CITY UTILITIES 34-12, 34-13, 34-14
RIGHT-OF-WAY 34-12, 34-13, 34-14
COX 34-13, 34-14, 34-15
QWEST -
APS 3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC N/A
SWGAS 34-13, 34-14, 34-15
SRP IRRIGATION -
OTHER1 -
OTHER2 -
DRAFTED BY: PARAMOUNT DESIGNS -LR / BT
FOR: Paramount Designs, Inc.
TOTAL PROJECT FOOTAGE: 7100'
TRENCH: -
BORE: 925'
PAVE FOOTAGE: 925'
ASPHALT CUT: -
TCG
PHOENIX
14902 N.
67th AVENUE
LOCATION: 67th Ave & Greenway Rd
PROJECT NAME: 14902 N. 67th Ave
PROJECT NUMBER: 113047
CITY: Glendale
SECTION: T. 3 N. R. 2 E. 7
QUARTER SECTION: -
HUB: -
NODE: -
DATE: 09-30-11
SHEET: 5 OF 8
INSPECTION AREA: INSPECT
REVISION X:
REVISION Y:
P224
113047

STA 3+90 E MATCH ABOVE RIGHT

STA. 4+70 E 40' RT
PL. TCG VAULT(3'X4')
STA 4+78.5 E 43' RT
STREET LIGHT
STA. 4+80 E 42'RT
VAC POT / E
STA 4+98.5 E 65'–6" RT
WATER VALVE
STA 5+16.5 E 67' RT
WATER VALVE
STA 5+17.5 E 53'–6" RT
WATER VALVE
STA 5+47.5 E 68' RT
STREET LIGHT

STA. 5+54 E 42'RT
VAC POT / E
STA. 5+79 E 42'RT
VAC POT / W
STA 5+79 E 50' RT
WATER VALVE
STA 5+89 E 6'–6" RT
SEWER MH
STA 6+29 E 58'–6" RT
ELEC. CABINET
STA 6+42.5 E 38' RT
CATV VAULT
STA 6+43 E 41' RT
CATV PED
STA 6+45 E 58' RT
ELEC. CABINET
STA 6+56 E 42'–6" RT
SIGN
STA 6+62 E 42'–6" RT
TRAFFIC SIGNAL BOX
STA. 6+97 E 42'RT
VAC POT / E
STA 6+98 E 41'–6" RT
STREET LIGHT
STA 7+00 E 40'–6" RT
STREET LIGHT BOX
STA 8+8.5 E 41'–6" RT
TRAFFIC SIGNAL BOX
STA 8+25 E 7' RT
SEWER MH
STA. 8+38 E 42'RT
VAC POT / E
STA 8+95 E 42' RT
STREET LIGHT
STA 8+99 E 41' RT
STREET LIGHT BOX
STA 9+02 E 50'–6" RT
TRAFFIC SIGNAL BOX

35' B/C
39' R/L
55' R/W
37' E
49.5' B/SW
35.5' UKN TV
1' V.N.A.E
6' S/W
UKN TV
80'
STA. 4+78.5 E, HAND DIG MAINTAIN MIN. CLEARANCE
LCAT
1–UA1/0A–2"
12"–W
66TH DR
9'(R/L TO W)
55' R/W
6' S
35' B/C
51' W
29'-6" E
42' R/L
36' UKN TV
CONC. S/W
STA. 6+43 E HAND DIG MAINTAIN MIN. CLEARANCE
5' S/W
STA.6+56 E , 6+62 E 6+98 E , 7+00 E HAND DIG MAINTAIN MIN. CLEARANCE
STA.8+8.5 E , 8+95 E , 8+99 E HAND DIG MAINTAIN MIN. CLEARANCE
2–1/0A –ABAND
5+19.2 NOTHING FND.
15"–S
GREENWAY ROAD
470'
UKN TV
1–UA1/0A–2"
CONC. S/W
55' R/W
34'-6" B/C
39'-6" B/SW
42' R/L
4+00
5+00
6+00
7+00
8+00
9+00

STA 9+40 E MATCH SHEET 04

STA. 0+61.5 W 39' LT
PL. TCG VAULT(3'X4')
PLACE 3' R 45° BEND
STA 0+14 W 06' LT
SEWER MH
STA. 0+13 W 39' LT
VAC POT / S

35' B/C
8' PUE
37' E
55' RW
51' R/L
6' S/W
55' R/W
53' E
13' S
SEE SHEET 02 FOR CONTINUATION
STOP
12"–S
0+00 S
0+00 E
FND. BCHH
27"–S
84"–SD
1+00
67th AVENUE
12"–W
66" SD
5' SD
28' W
45' E
39' R/L
STA. 0+04 W 39' RT
VAC POT / SD
STA. 0+19 W 39' RT
VAC POT / UKN TV
STA. 0+29 W 39' RT
VAC POT / W
STA. 0+50 W 39' RT
VAC POT / G
STA 0+60 E 65' RT
TRAFFIC SIGNAL BOX
STA 0+62 E 62' RT
TRAFFIC SIGNAL POLE
STA 0+68 E 85' RT
GAS STATION SIGN
STA 0+72 E 53–6" RT
RLMTR SIGN
STA. 0+75 W 39' RT
VAC POT / W
STA 0+75 E 49–6" RT
WATER VALVE
STA 0+79 E 51' RT
WATER VALVE
STA 0+81.5 E 55' RT
CATV VAULT
STA. 0+82 W 39' RT
VAC POT / E
STA 1+74.5 E 54' RT
WATER METER
STA 1+78 E 54' RT
WATER METER
STA 1+78 E 56'–6" RT
BACKFLOW PREVENTER
STA 2+48 E 73' RT
ELEC. CABINET
STA 2+48 E 93' RT
TRANSFORMER
STA 2+51 E 41'–6" RT
FIRE HYDRANT
STA 2+57.5 E 56' RT
TELCO PED
STA. 2+80 W 39' RT
VAC POT / E
STA 2+80 E 43' RT
STREET LIGHT
STA 3+19 E 41' RT
CATV VAULT
STA. 3+76 W 39' RT
VAC POT / W
STA 3+76 E 50'–6" RT
WATER VALVE

GAS STATION
WALL
2–1/0A–2"
12"–W
UKN TV
CONC.
450'
12'(R/L TO W)
CDW
RANCHO MIRAGE ESTATES 2
CONC. S/W
39' R/L
51' B/SW
6' S
35' B/C
6' S/W
55' R/W
51' W
1' V.N.A.E
37' E
GREENWAY ROAD
15"–S
0+00
1+00
2+00
3+00

STA 3+90 E MATCH BELOW LEFT

SCALE: 1" = 40'
0 10' 20' 40' 80'

CALL TWO WORKING DAYS BEFORE YOU DIG
(602) 263–1100
1–800–782–5348
(OUTSIDE MARICOPA COUNTY)

CONSTRUCTION NOTES:
1. RESTORE CONCRETE PER MAG SPEC. SECTIONS 340 & 601
2. ALL POTHOLES RESTORED PER MAG SPEC. SECTIONS 340 & C110.
3. CURB AND GUTTER WILL NOT BE DISTURBED
4. CURB AND GUTTER WILL BE SHORED TO PREVENT SETTLING

T. 3 N., R. 2 E. NE1/4 & NW1/4 Sec. 7
GREENWAY RD.
SITE
67th AVE.
ACOMA DR.
63rd AVE.
THUNDERBIRD RD.
59th AVE.
VICINITY MAP

REFERENCES	
CITY UTILITIES	34-12, 34-13, 34-14
RIGHT-OF-WAY	34-12, 34-13, 34-14
COX	34-13, 34-14, 34-15
QWEST	
APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	
OTHER1	
OTHER2	

DRAFTED BY: PARAMOUNT DESIGNS -LR / BT
FOR: [redacted]
Paramount Designs, Inc.
TOTAL PROJECT FOOTAGE: 7100' PAGE FOOTAGE: 1000'
TRENCH: - ROCK: 1000' ASPHALT CUT: -

TCG PHOENIX

14902 N. 67th AVENUE

LOCATION: 67th Ave & Greenway Rd
PROJECT NAME: 14902 N. 67th Ave
PROJECT NUMBER: 113047
CITY: Glendale
SECTION: T. 3 N. R. 2 E.
QUARTER SECTION: -
HUB: - ROUTE: 7
DATE: 09-30-11
SHEET: 3 OF 8
INSPECTION AREA: INSPECT
REVISION #: P224
REVISION #: 113047

STA 43+50 E MATCH ABOVE RIGHT

55' RW
46' G
6' S
51' W
34'-6" B/C
STA 43+98 E 6' RT
SEWER MH
51'-6" B/SW
40' R/L
4' S/W
STA 45+11 E 42' RT
STREET LIGHT
43' B/SW
STA. 45+79 E 40' RT
BORE PIT(4'X4')
STA 45+80 E 61' RT
SIGN
STA 46+01 E 5'-6" RT
SEWER MH
STA. 46+01 E 40'RT
VAC POT / 12" W
STA 46+17 E 51'-6" RT
WATER VALVE
STA 46+22 E 53' RT
WATER VALVE
STA 46+24 E 55' RT
WATER VALVE
STA 46+34 E 55' RT
FIRE HYDRANT
STA 46+84 E 36' RT
SIGN
STA 47+12 E 58' RT
ELECTRIC CABINET
STA. 47+25 E 40'RT
VAC POT / 12" W
STA 47+27 E 58' RT
ELECTRIC CABINET
55' RW
46' G
6' S
15' W
34'-6" B/C
40' R/L
11'-6"
(R/L TO W)

44+00
45+00
46+00
47+00
48+00

GREENWAY ROAD

229'
271'

CONC. S/W
UKN TV
4"-G(STL)
12"-W
8"-S
CDW
8"-W
12"-S

STA 48+50 E MATCH SHEET 08

STA 38+50 E MATCH SHEET 06

STA 38+76 E 52' RT
WATER VALVE
39' B/SW
55' RW
46' G
6' S
51' W
34'-6" B/C
40' R/L
STA 39+70 E 43' RT
POWER POLE
11.6'
(R/L TO W)
STA 41+57 E 42' RT
POWER POLE
STA. 42+49 E 40' RT
PL. TCG VAULT(3'X4')
STA 42+49 E 45' RT
TELCO PED
40' R/L
STA 42+53 E 6' RT
SEWER MH
STA 42+77 E 56' RT
GAS VALVE
STA 42+88 E 53' RT
WATER VALVE
STA 42+90 E 55' RT
WATER VALVE
STA 42+97 E 55' RT
FIRE HYDRANT
STA 43+29 E 43' RT
STREET LIGHT
39' B/SW
55' RW
46' G
6' S
51' W
34'-6" B/C

39+00
40+00
41+00
42+00
43+00

GREENWAY ROAD

399'
101'

CONC. S/W
4"-G(STL)
12"-W
UKN TV
GDW
12"-S

STA 43+50 E MATCH BELOW LEFT

SCALE: 1" = 40'

0' 10' 20' 40' 80'

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

REFERENCES	
CITY UTILITIES	34-12, 34-13, 34-14
RIGHT-OF-WAY	34-12, 34-13, 34-14
COX	34-13, 34-14, 34-15
QWEST	-
APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	-
OTHER1	-
OTHER2	-

DRAWN BY: PARAMOUNT DESIGNS -LR / BT

FOR: [redacted]

TOTAL PROJECT FOOTAGE: 7100'
PAGE FOOTAGE: 1000'
TRENCH: -
BORE: 1000'
ASPHALT CUT: -

TCG PHOENIX

14902 N. 67th AVENUE

LOCATION: 67th Ave & Greenway Rd
PROJECT NAME: 14902 N. 67th Ave
PROJECT NUMBER: 113047
CITY: Glendale
SECTION: T. 3 N. R. 2 E.
QUARTER SECTION: -
HUB: -
NODE: -
DATE: 09-30-11
SHEET: 7 OF 8
INSPECTION AREA: INSPECT
REVISION 'A' / REVISION 'B'
P224
113047

CONSTRUCTION NOTES:
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2. ALL POTHOLES RESTORED PER MAG SPEC. SECTIONS 340 & C110.
3. CURB AND GUTTER WILL NOT BE DISTURBED
4. CURB AND GUTTER WILL BE SHORED TO PREVENT SETTLING

T. 3 N., R. 2 E. NE1/4 & NW1/4 Sec. 7
GREENWAY RD.
SITE
67th AVE.
ACOMA DR.
63rd AVE.
THUNDERBIRD RD.
59th AVE.
VICINITY MAP

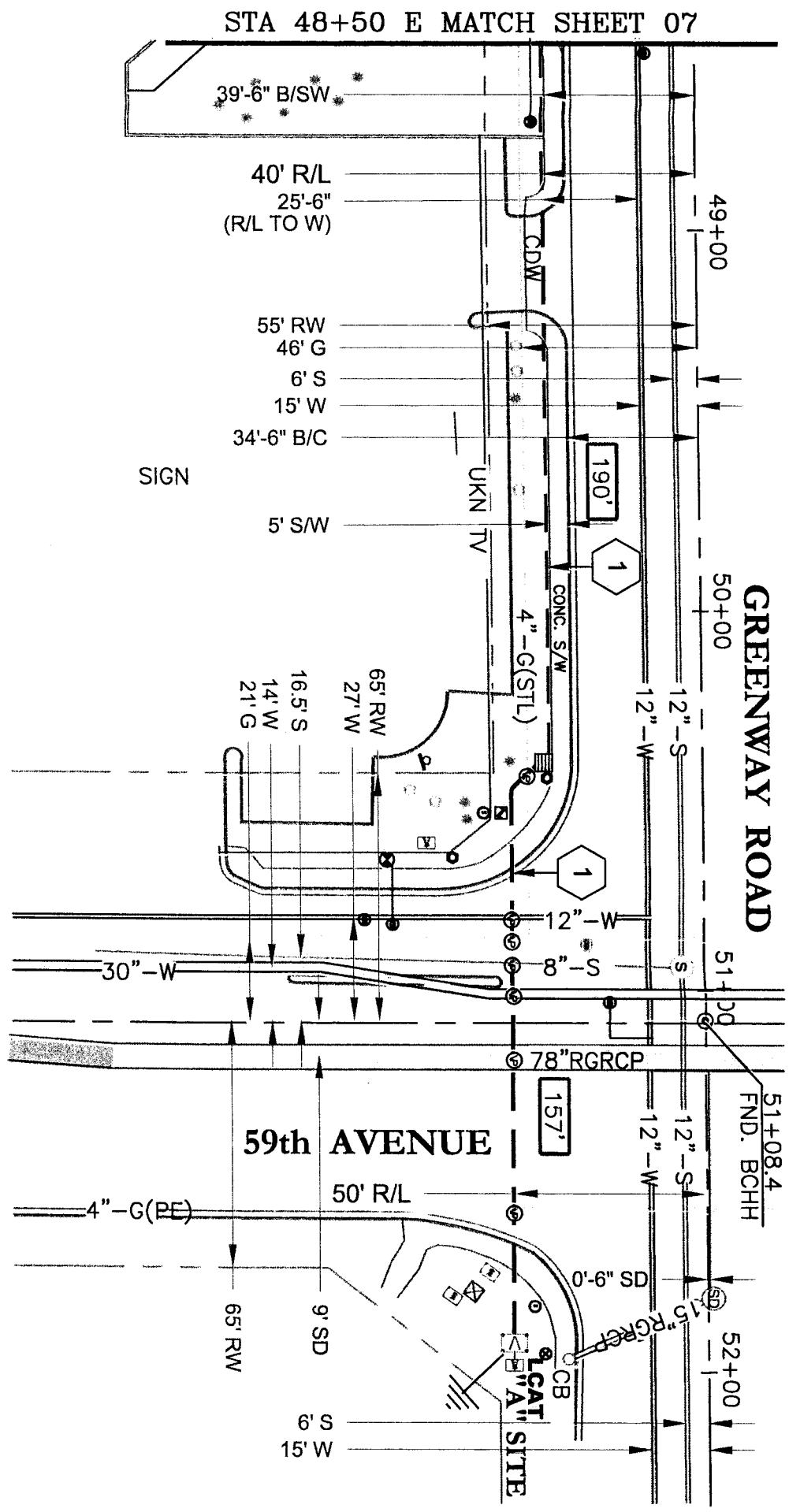
STA 48+54 E 13' RT
WATER VALVE

STA 48+72 E 43' RT
POWER POLE

STA. 50+40 E 40' RT
BORE PIT(4'X4')
STA 50+40 E 72' RT

STA. 50+43 E 40' RT
VAC POT / 4" G(STL)
STA 50+45 E 41' RT
STEEL POLE
STA 50+54 E 53' RT
STREET LIGHT BOX
STA 50+54 E 57'-6" RT
STREET LIGHT BOX
STA 50+61 E 61' RT
CATV VAULT
STA 50+65 E 66' RT
STEEL POLE
STA 50+66 E 83' RT
FIRE HYDRANT

STA 50+82 E 89' RT
WATER VALVE
STA. 50+81 E 50' RT
VAC POT / 12" W
STA 50+83 E 82' RT
WATER VALVE
STA. 50+87 E 50' RT
VAC POT / 3" G(STL)
STA 50+89 E 31' RT
GAS VALVE
STA. 50+93 E 50' RT
VAC POT / 8" S
STA 50+94 E 6' RT
SEWER MH
STA. 51+01 E 50' RT
VAC POT / 30" W
STA 51+04 E 25' RT
WATER VALVE
STA. 51+18 E 50' RT
VAC POT / 78" SD
STA. 51+58 E 50' RT
VAC POT / 4" G
STA 51+74 E 57' RT
TRAFFIC SIGNAL BOX
STA 51+79 E 61' RT
TRAFFIC VAULT
STA 51+80 E 67' RT
TRAFFIC SIGNAL BOX
STA 51+83 E 45' RT
TRAFFIC SIGNAL POLE
STA. 51+94 E 51' RT
PL. TCG VAULT(3'X4')
INTERCEPT EXT.VAULT
STA 51+96 E 43' RT
WOOD POLE
STA 51+97 E
CATCH BASIN
STA 51+99 E 51' RT
CATV VAULT



STA 51+81 E 1' LT
STORM DRAIN MH

SCALE: 1" = 40'
0' 10' 20' 40' 80'

CALL TWO WORKING DAYS
BEFORE YOU DIG
(602) 263-1100
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

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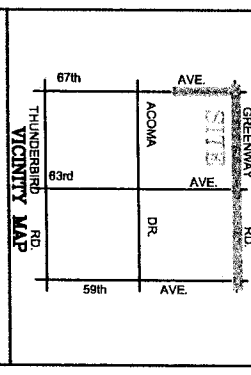

REFERENCES	
CITY UTILITIES	34-12, 34-13, 34-14
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COX	34-13, 34-14, 34-15
QWEST	
APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	
OTHER1	
OTHER2	

DRAFTED BY: PARAMOUNT DESIGNS -LR / BT

FOR: [redacted]

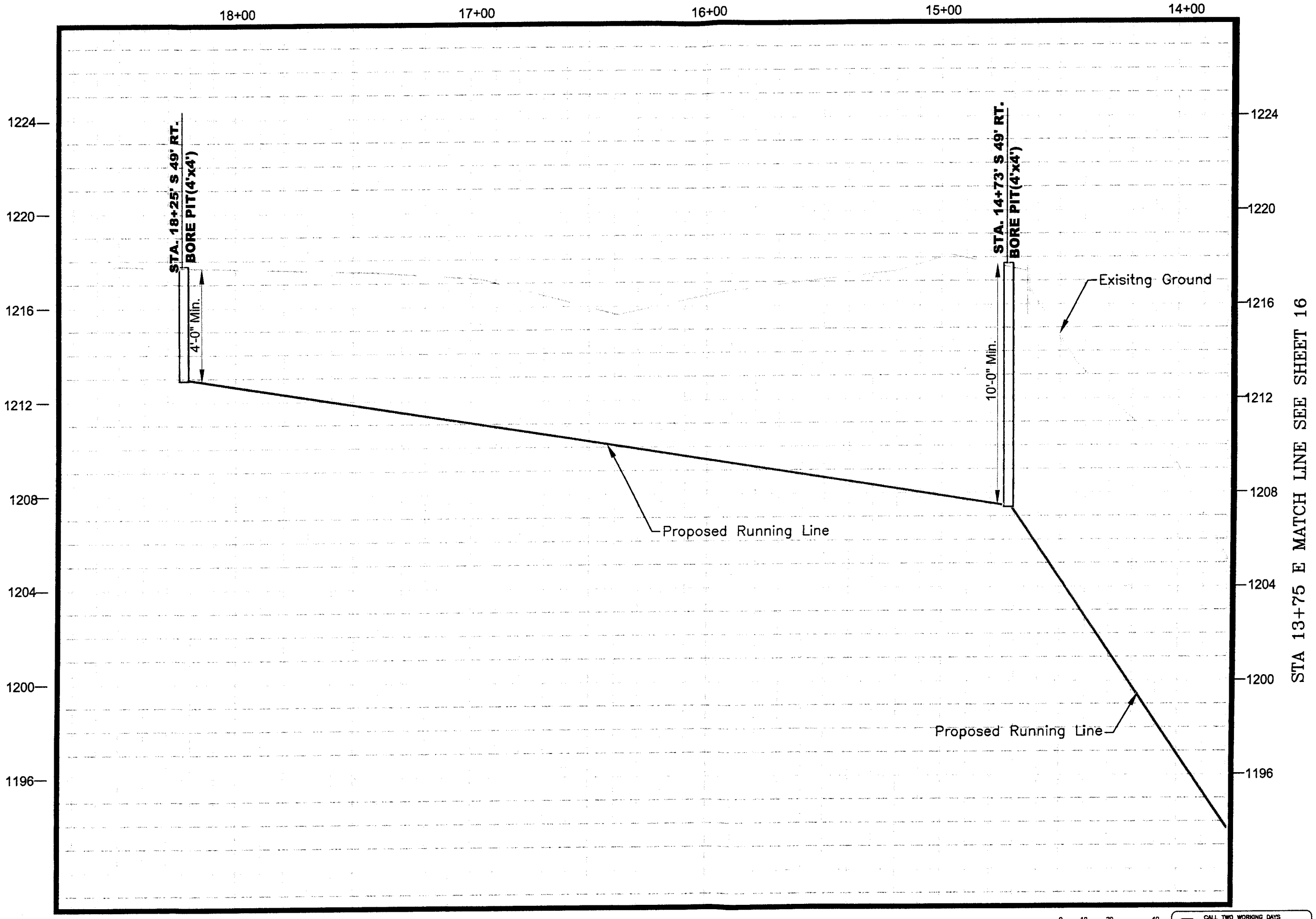
TOTAL PROJECT FOOTAGE: 7100'
PAGE FOOTAGE: 347'
TRENCH: -
SCRIBE: 347'
ASPHALT CUT: -

TCG PHOENIX

14902 N. 67th AVENUE

LOCATION: 67th Ave & Greenway Rd
PROJECT NAME: 14902 N. 67th Ave
PROJECT NUMBER: 113047
CITY: Glendale
SECTION: T. 3 N. R. 2 E.
MODE: 7
QUARTER SECTION: -
PUB: -
DATE: 09-30-11
SHEET: 8 OF 8
INSPECTION AREA: INSPECT
REVISION 'X': -
REVISION 'Y': -

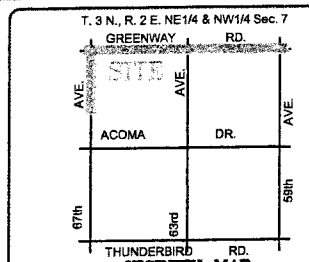
P224 | 113047



SCALE IN FEET 1" = 40'
VERTICAL SCALE 1" = 4'

CALL TWO WORKING DAYS BEFORE YOU DIG
(602) 263-1100
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

T. 3 N., R. 2 E. NE1/4 & NW1/4 Sec. 7



VICINITY MAP

CONSTRUCTION NOTES:
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"AS BUILT" NOTICE TO CONTRACTOR
THE CONTRACTOR SHALL PROVIDE APPROPRIATE PROFESSIONALS, INCLUDING AN REGISTERED LAND SURVEYOR, TO PROVIDE ALL NECESSARY "AS BUILT" INFORMATION TO ENABLE ALL FINAL PERMITS, INSPECTIONS, SIGNOFFS AND CERTIFICATES TO BE ISSUED BY ALL NECESSARY JURISDICTIONS.

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COX	34-13, 34-14, 34-15
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APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	-
OTHER1	-
OTHER2	-

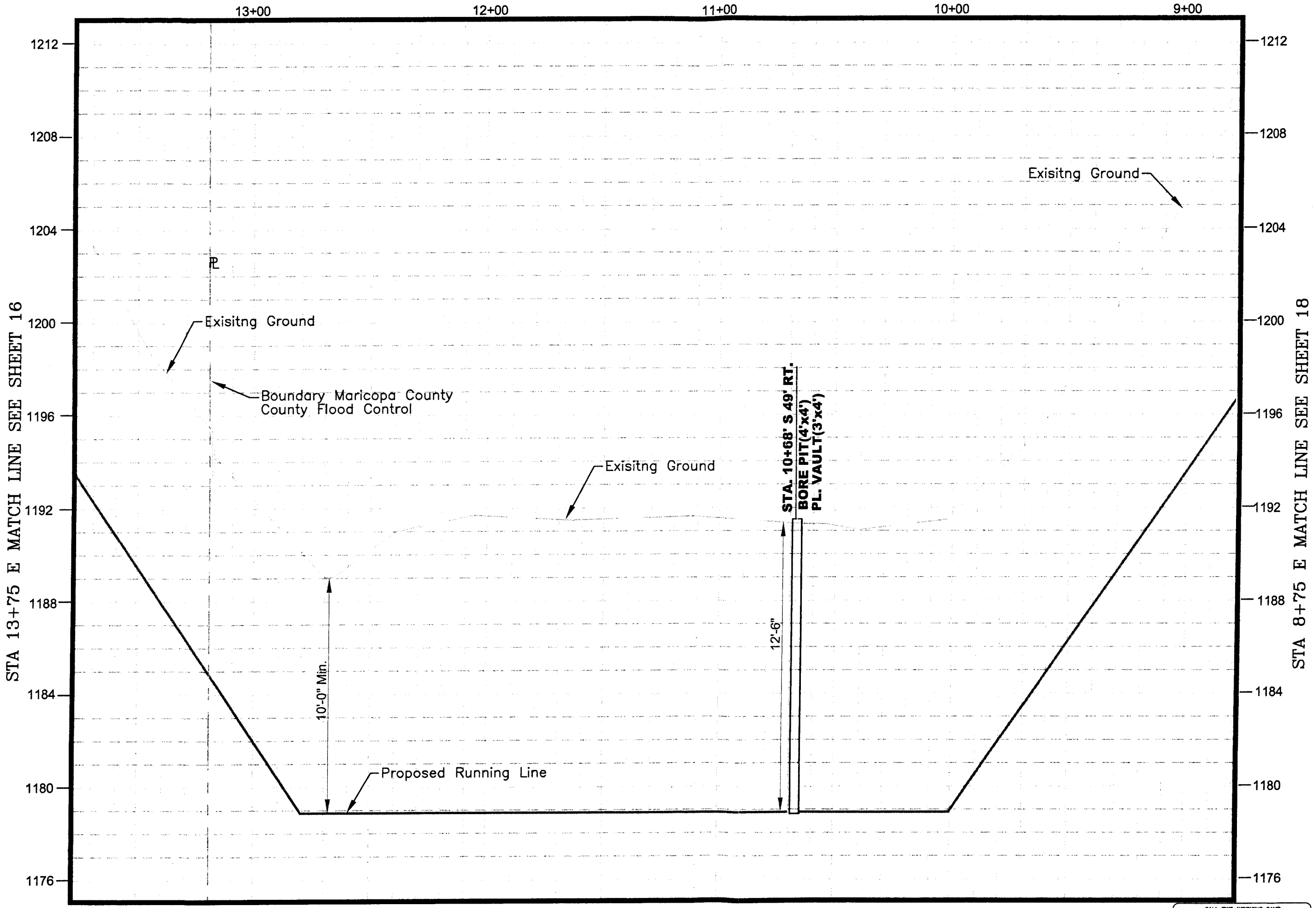
DRAFTED BY: PARAMOUNT DESIGNS - LR / BT
FOR: Paramount Designs, Inc.

TOTAL PROJECT FOOTAGE:	PAGE FOOTAGE:	
7100'	-	
TRENCH: -	BORE: -	ASPHALT CUT: -

TCG PHOENIX

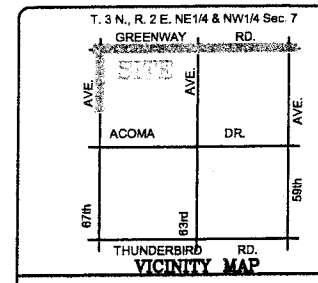
14902 N.
67th AVENUE

LOCATION:	67th Ave & Greenway Rd
PROJECT NAME:	14902 N. 67th Ave
PROJECT NUMBER:	113047
CITY: Glendale	SECTION: T. 3 N. R. 2 E. 7
QUARTER SECTION: --	HUB: - / NODE: *
DATE: 09-30-11	SHEET: 1a OF * / INSPECTION AREA: INSPECT
REVISION A:	
REVISION B:	
P224	113047



SCALE IN FEET 1" = 40'
VERTICAL SCALE 1" = 4'

CALL TWO WORKING DAYS BEFORE YOU DIG
(602) 263-1100
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)



VICINITY MAP

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N

REFERENCES	
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RIGHT-OF-WAY	34-12, 34-13, 34-14
COX	34-13, 34-14, 34-15
QWEST	-
APS	3N-2E-07NW,NE & 3N-2E-08NW
SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	-
OTHER1	-
OTHER2	-

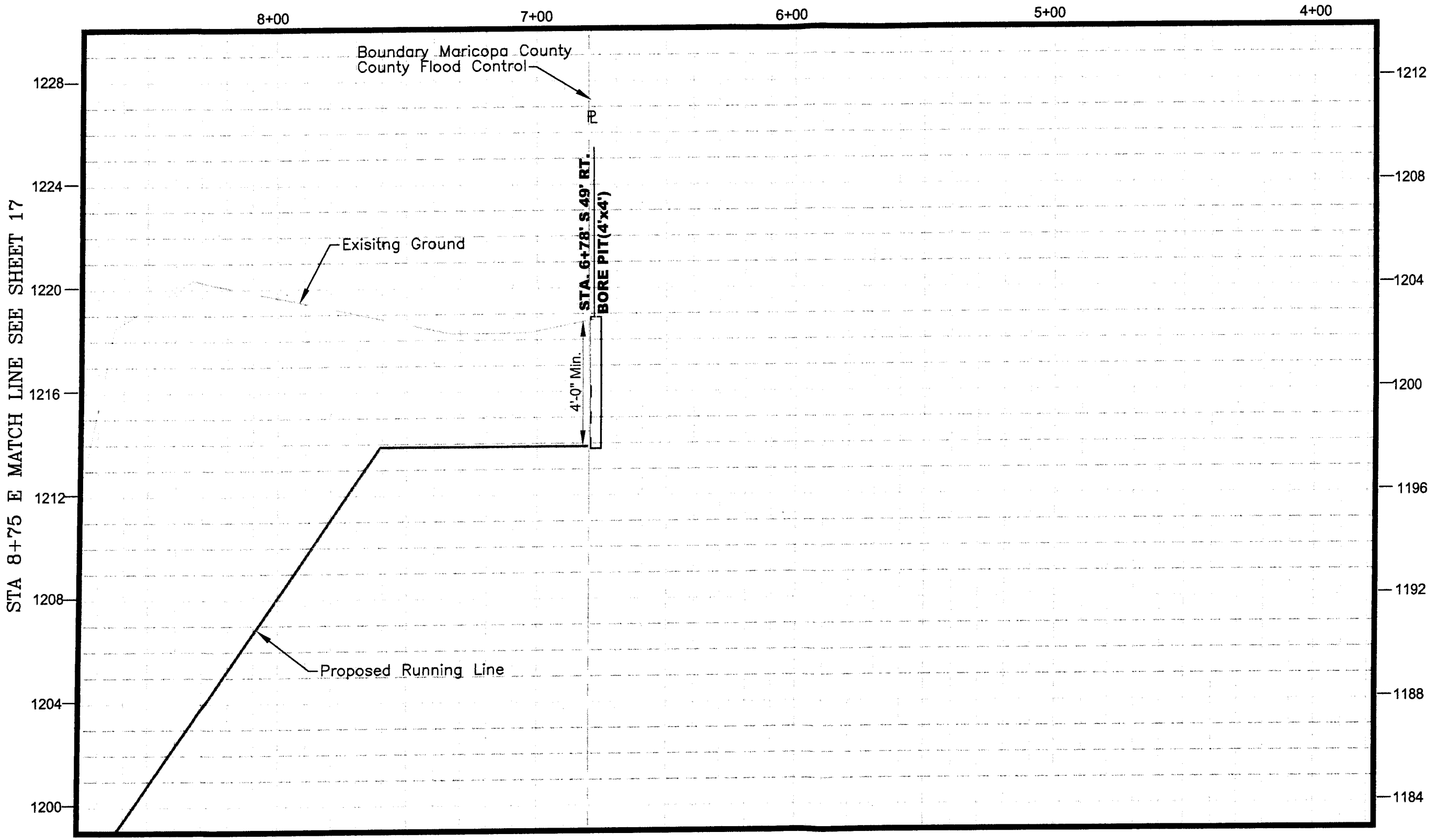
DRAFTED BY: PARAMOUNT DESIGNS - LR / BT
FOR: Paramount Designs, Inc.

TOTAL PROJECT FOOTAGE:	PAGE FOOTAGE:	
7100'	-	
TRENCH: -	BORE: -	ASPHALT CUT: -

TCG PHOENIX

14902 N.
67th AVENUE

LOCATION:	67th Ave & Greenway Rd
PROJECT NAME:	14902 N. 67th Ave
PROJECT NUMBER:	113047
CITY: Glendale	SECTION: T. 3 N. R. 2 E. 7
QUARTER SECTION: --	HUB: - NODE: *
DATE: 09-30-11	SHEET: 2b OF * INSPECTION AREA: INSPECT
REVISION 'A':	
REVISION 'B':	
P224	113047



SCALE IN FEET 1" = 40'
VERTICAL SCALE 1" = 4'

CALL TWO WORKING DAYS BEFORE YOU DIG
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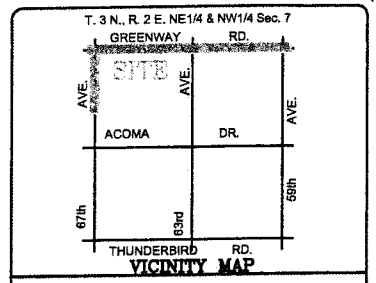
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)



VICINITY MAP

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COX	34-13, 34-14, 34-15
QWEST	-
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SRP ELEC	N/A
SWGAS	34-13, 34-14, 34-15
SRP IRRIGATION	-
OTHER1	-
OTHER2	-

DRAFTED BY: PARAMOUNT DESIGNS - LR / BT
FOR: Paramount Designs, Inc.

TOTAL PROJECT FOOTAGE:	PAGE FOOTAGE:	
7100'	-	
TRENCH: -	BORE: -	ASPHALT CUT: -

TCG PHOENIX

14902 N. 67th AVENUE

LOCATION:	67th Ave & Greenway Rd
PROJECT NAME:	14902 N. 67th Ave
PROJECT NUMBER:	113047

CITY:	SECTION:		
Glendale	T. 3 N.	R. 2 E.	7
QUARTER SECTION: --	HUB: -		NODE: *
DATE: 09-30-11	SHEET: 3b OF *		INSPECTION AREA: INSPECT
REVISION X:			
REVISION Y:			

P224 | 113047

A-D TECHNOLOGIES

Dimensional Tables for Smooth Wall ID Sized Conduit including:

Schedules 40 & 80 – DR's 9, 11, 13.5, 17 – Standard Wall

Wall Type >		SDR 9			SDR 11			SDR 13.5			SDR 17			Standard Wall			Schedule 40			Schedule 80		
Trade Size	Avg OD	Avg Wall	Avg ID	Wt/Ft	Avg Wall	Avg ID	Wt/Ft	Avg Wall	Avg ID	Wt/Ft	Avg Wall	Avg ID	Wt/Ft	Avg Wall	Avg ID	Wt/Ft	Avg Wall	Avg ID	Wt/Ft	Avg Wall	Avg ID	Wt/Ft
1/2"	0.840	0.103	0.633	0.099	0.086	0.667	0.085	0.072	0.696	0.072	—	—	—	0.060	0.700	0.070	0.119	0.602	0.111	0.157	0.526	0.139
3/4"	1.050	0.127	0.797	0.152	0.105	0.839	0.129	0.088	0.874	0.110	0.072	0.906	0.091	0.060	0.910	0.089	0.123	0.804	0.148	0.164	0.722	0.189
1"	1.315	0.156	1.003	0.235	0.130	1.056	0.200	0.107	1.100	0.169	0.087	1.140	0.139	0.085	1.145	0.136	0.143	1.029	0.218	0.190	0.936	0.277
1-1/4"	1.660	0.196	1.269	0.372	0.161	1.338	0.313	0.133	1.394	0.264	0.108	1.445	0.217	0.110	1.440	0.222	0.150	1.360	0.294	0.202	1.255	0.383
1-1/2"	1.900	0.224	1.452	0.487	0.183	1.534	0.408	0.151	1.599	0.343	0.122	1.656	0.281	0.125	1.650	0.288	0.155	1.590	0.351	0.212	1.476	0.465
2"	2.375	0.280	1.816	0.762	0.229	1.917	0.638	0.186	2.002	0.530	0.150	2.076	0.433	0.155	2.065	0.447	0.164	2.047	0.471	0.231	1.913	0.644
2-1/2"	2.875	0.339	2.198	1.116	0.277	2.321	0.935	0.226	2.424	0.777	0.179	2.516	0.628	0.215	2.445	0.744	0.215	2.445	0.744	0.293	2.290	0.982
3"	3.500	0.412	2.676	1.654	0.337	2.825	1.386	0.275	2.950	1.152	0.218	3.064	0.931	0.229	3.042	0.973	0.229	3.042	0.973	0.318	2.864	1.315
4"	4.500	0.530	3.440	2.734	0.434	3.633	2.291	0.353	3.793	1.904	0.281	3.939	1.538	0.254	3.991	1.403	0.251	3.998	1.387	0.357	3.786	1.923
5"	5.563	0.655	4.253	4.178	0.536	4.491	3.501	0.437	4.689	2.909	0.347	4.869	2.351	0.290	4.982	1.990	0.271	5.020	1.866	0.398	4.768	2.668
6"	6.625	0.780	5.064	5.926	0.638	5.348	4.966	0.520	5.585	4.126	0.413	5.799	3.334	0.315	5.995	2.581	0.297	6.031	2.440	0.458	5.709	3.669

Dimensional Table Notes:

1. Minimum wall thickness for SDR size pipe is 0.062" +0.020", for 1/2" diameter, SDR-13.5 is at the minimum there is not SDR-17. The min/max wall thickness is ±6% or 0.010" whichever number is larger.
2. All dimensions are provided as inches, and are the average dimensions.
3. All weights are calculated by using a density of 0.955 based on TR-7 "Recommended Method for Calculation of Nominal Weight of Solid Wall Plastic Pipe," published by Plastics Pipe Institute (PPI).
4. All material and finished conduit performance testing and dimensional measurements are done in accordance with the requirements of ASTM F2160.
5. Internal or external ribs are in addition to the average wall and for determining OD and ID dimensions. The average rib height to be added is 0.020."
6. Add .016#/ft for ribbed product 1-1/2" and less. For 2" and larger, add .025#/ft.

Internally Wave-Rib® – offered exclusively by A-D Technologies to significantly reduce friction when installing cables into conduit. Less stress is placed on the cable for faster longer installations, lowering costs. The ideal choice for use with Air or Maxx-Trak cable installation systems.

Air -Trak or Maxx-Trak – Cable pushing with air assist, the latest in installation technology. Installs cables with less stress faster over longer distances. Air-Trak for fiber, mini-fiber, and mini-duct or Maxx-Trak for medium and low voltage cables. Ask to see a demo and start saving today.

Cable Con CIC – Cable in conduit is a way to reduce installation costs. Contact A-D Technologies for your next project to see if CIC is the best option.

NOTE: A-D Technologies has made every attempt to assure that the information contained in this product bulletin is accurate. The information supplied may change without notice. This information is intended to inform the reader of the typical characteristics of the pipe and accessories that are described and should not be considered complete with regard to design considerations. Contact a representative regarding any questions about this document and to determine if the information contained within is current.

ALL PROPRIETARY RIGHTS RESERVED

A-D TECHNOLOGIES

Dimensional Tables for Smooth Wall ID Sized Conduit including:

SIDR's 7, 9, 11.5, 15, 19 – Wave Rib Types 9, 11, 13 – True Types 9 & 11

Wall Type >		SIDR 7			SIDR 9			SIDR 11.5			SIDR 15			SIDR 19		
Trade Size	Avg ID	Avg Wall	Avg OD	Wt/Ft	Avg Wall	Avg OD	Wt/Ft	Avg Wall	Avg OD	Wt/Ft	Avg Wall	Avg OD	Wt/Ft	Avg Wall	Avg OD	Wt/Ft
1/2"	0.622	0.099	0.821	0.093	0.079	0.780	0.072	0.070	0.762	0.063	—	—	—	—	—	—
3/4"	0.824	0.128	1.079	0.158	0.102	1.027	0.122	0.082	0.987	0.096	0.070	0.964	0.081	—	—	—
1"	1.049	0.160	1.369	0.251	0.127	1.302	0.193	0.101	1.251	0.151	0.080	1.209	0.117	0.070	1.160	0.099
1-1/4"	1.380	0.209	1.798	0.431	0.163	1.707	0.328	0.130	1.640	0.255	0.102	1.584	0.196	0.077	1.424	0.134
1-1/2"	1.610	0.244	2.098	0.587	0.189	1.988	0.442	0.150	1.910	0.343	0.117	1.845	0.263	0.090	1.700	0.188
2"	2.067	0.313	2.693	0.968	0.243	2.554	0.731	0.191	2.448	0.559	0.148	2.363	0.425	0.116	2.253	0.323
2-1/2"	2.469	0.374	3.217	1.381	0.291	3.051	1.043	0.228	2.924	0.797	0.175	2.818	0.600	0.140	2.749	0.474
3"	3.068	0.465	3.997	2.132	0.361	3.791	1.610	0.283	3.634	1.231	0.215	3.497	0.915	0.171	3.411	0.722
4"	4.026	0.610	5.245	3.672	0.474	4.974	2.773	0.371	4.768	2.120	0.285	4.595	1.593	0.225	4.475	1.241
6"	6.065	0.918	7.902	8.334	0.714	7.494	6.292	0.559	7.183	4.812	0.429	6.922	3.616	0.338	6.742	2.815
Wall Type >		Wave-Rib Type-9			Wave-Rib Type-11			Wave-Rib Type-13			True Type-9			True Type-11		
1"	1.020	0.123	1.266	0.169	0.090	1.200	0.145	—	—	—	0.121	1.262	0.178	0.099	1.217	0.143
1-1/8"	1.145	0.174	1.493	0.218	0.103	1.351	0.182	—	—	—	0.149	1.568	0.218	0.120	1.511	0.218
1-1/4"	1.270	0.191	1.652	0.261	0.110	1.490	0.212	—	—	—	—	—	—	—	—	—
1-3/8"	1.395	0.211	1.817	0.316	—	—	—	—	—	—	—	—	—	—	—	—
1-1/2"	1.520	0.230	1.980	0.375	0.136	1.792	0.307	—	—	—	—	—	—	—	—	—
2"	2.020	—	—	—	—	—	—	0.155	2.330	0.440	—	—	—	—	—	—

Dimensional Table Notes:

1. Minimum wall thick ness for SDR size pipe is 0.062" +0.020", for 1/2" and 3/4" minimums are reached on SIDR 11.5 and SIDR 15 respectively. The min/max wall thickness is ±6% or 0.010" whichever number is larger.
2. All domensions are provided as inches, and are the average dimensions.
3. All weights are calculated by using a density of 0.955 based on TR-7 "Recommended Method for Calculation of Nominal Weight of Solid Wall Plastic Pipe," published by Plastics Pipe Institute (PPI).
4. All material and finished conduit performance testing and dimensional measurements are done in accordance with the requirements of ASTM F2160.
5. Internal or ecternal ribs are in addition to the average wall and for determining OD and ID dimensions. The average rib height to be added is 0.020."
6. Add .016#/ft for ribbed product 1-1/2" and less. For 2" and larger, add .025#/ft.

NOTE: A-D Technologies has made every attempt to assure that the information contained in this product bulletin is accurate. The information supplied may change without notice. This information is intended to inform the reader of the typical characteristics of the pipe and accessories that are described and should not be considered complete with regard to design considerations. Contact a representative regarding any questions about this document and to determine if the information contained within is current.

ALL PROPRIETARY RIGHTS RESERVED

EXHIBIT B
CONSTRUCTION AGREEMENT

COMPENSATION

METHOD AND AMOUNT OF COMPENSATION

The total lump sum cost for this project is $37,380.

NOT-TO-EXCEED AMOUNT

The total amount of compensation paid to Contractor for full completion of all work required by the Project during the entire term of the Project must not exceed $37,380.

DETAILED PROJECT COMPENSATION

See attached statement of work for fee proposal.

EXHIBIT C
CONSTRUCTION AGREEMENT

DISPUTE RESOLUTION

1. Disputes.

1.1 Commitment. The parties commit to resolving all disputes promptly, equitably, and in a good-faith, cost-effective manner.

1.2 Application. The provisions of this Exhibit will be used by the parties to resolve all controversies, claims, or disputes ("Dispute") arising out of or related to this Agreement-including Disputes regarding any alleged breaches of this Agreement.

1.3 Initiation. A party may initiate a Dispute by delivery of written notice of the Dispute, including the specifics of the Dispute, to the Representative of the other party as required in this Agreement.

1.4 Informal Resolution. When a Dispute notice is given, the parties will designate a member of their senior management who will be authorized to expeditiously resolve the Dispute.

a. The parties will provide each other with reasonable access during normal business hours to any and all non-privileged records, information and data pertaining to any Dispute in order to assist in resolving the Dispute as expeditiously and cost effectively as possible;

b. The parties' senior managers will meet within 10 business days to discuss and attempt to resolve the Dispute promptly, equitably, and in a good faith manner, and

c. The Senior Managers will agree to subsequent meetings if both parties agree that further meetings are necessary to reach a resolution of the Dispute.

2. Arbitration.

2.1 Rules. If the parties are unable to resolve the Dispute by negotiation within 30 days from the Dispute notice, and unless otherwise informal discussions are extended by the mutual agreement, the Dispute will be decided by binding arbitration in accordance with Construction Industry Rules of the AAA, as amended herein. Although the arbitration will be conducted in accordance with AAA Rules, it will not be administered by the AAA, but will be heard independently.

a. The parties will exercise best efforts to select an arbitrator within 5 business days after agreement for arbitration. If the parties have not agreed upon an arbitrator within this period, the parties will submit the selection of the arbitrator to one of the principals of the mediation firm of Scott & Skelly, LLC, who will then select the arbitrator. The parties will equally share the fees and costs incurred in the selection of the arbitrator.

b. The arbitrator selected must be an attorney with at least 15 years experience with commercial construction legal matters in Maricopa County, Arizona, be independent, impartial, and not have engaged in any business for or adverse to either Party for at least 10 years.

2.2 Discovery. The extent and the time set for discovery will be as determined by the arbitrator. Each Party must, however, within ten days of selection of an arbitrator deliver to the other Party copies of all documents in the delivering party's possession that are relevant to the dispute.

2.3 Hearing. The arbitration hearing will be held within 90 days of the appointment of the arbitrator. The arbitration hearing, all proceedings, and all discovery will be conducted in Glendale, Arizona unless otherwise agreed by the parties or required as a result of witness location. Telephonic hearings and other reasonable arrangements may be used to minimize costs.

2.4 Award. At the arbitration hearing, each Party will submit its position to the arbitrator, evidence to support that position, and the exact award sought in this matter with specificity. The arbitrator must select the award sought by one of the parties as the final judgment and may not independently

alter or modify the awards sought by the parties, fashion any remedy, or make any equitable order. The arbitrator has no authority to consider or award punitive damages.

2.5 Final Decision. The Arbitrator's decision should be rendered within 15 days after the arbitration hearing is concluded. This decision will be final and binding on the Parties.

2.6 Costs. The prevailing party may enter the arbitration in any court having jurisdiction in order to convert it to a judgment. The non-prevailing party shall pay all of the prevailing party's arbitration costs and expenses, including reasonable attorney's fees and costs.

3. **Services to Continue Pending Dispute.** Unless otherwise agreed to in writing, Contractor must continue to perform and maintain progress of required services during any Dispute resolution or arbitration proceedings, and City will continue to make payment to Contractor in accordance with this Agreement.

4. **Exceptions.**

4.1 Third Party Claims. City and Contractor are not required to arbitrate any third-party claim, cross-claim, counter claim, or other claim or defense of a third party who is not obligated by contract to arbitrate disputes with City and Contractor.

4.2 Liens. City or Contractor may commence and prosecute a civil action to contest a lien or stop notice, or enforce any lien or stop notice, but only to the extent the lien or stop notice the Party seeks to enforce is enforceable under Arizona Law, including, without limitation, an action under A.R.S. § 33-420, without the necessity of initiating or exhausting the procedures of this Exhibit.

4.3 Governmental Actions. This Exhibit does not apply to, and must not be construed to require arbitration of, any claims, actions or other process filed or issued by City of Glendale Building Safety Department or any other agency of City acting in its governmental permitting or other regulatory capacity.

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY) 12/13/2011

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
MICHAEL G CAMPBELL INSURANCE AGENCY INC
8753 E Bell Rd Suite 110
Scottsdale, AZ 85260

CONTACT NAME: Barbara Stoner
PHONE (A/C, No, Ext): (480)339-4000 FAX (A/C, No): (480)505-9809
E-MAIL ADDRESS: barbara@michaelgcampbell.com

INSURER(S) AFFORDING COVERAGE	NAIC#
INSURER A: THE PHOENIX INSURANCE GROUP	25623
INSURER B: Travelers Property Casualty Co	25674
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

INSURED
JK COMMUNICATIONS & CONSTRUCTION INC.
KLEVEN CONSTRUCTION
P.O. Box 62013
Phoenix, AZ 85082
(480)736-8400 x105

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC	Y	Y	DT22CO3198R198PHX11	7/17/2011	7/17/2012	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 300,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
B	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS	Y		DT8103198R198TIL11	7/17/2011	7/17/2012	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) Comp&Coll $1,000Deductible	$ 1,000,000 $ $ $ $
B	[X] UMBRELLA LIAB [X] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000	Y	Y	DTSMCUP3198R198TIL11	7/17/2011	7/17/2012	EACH OCCURRENCE AGGREGATE $	$ 5,000,000 $ 5,000,000 $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N [N] If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		DTJUB-4A32865-5-11	7/17/2011	7/17/2012	[X] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
A	CONTRACTORS EQUIPMENT RENTED/LEASED EQUIP	Y		QT6603235R082TIL11	7/17/2011	7/17/2012	LIMIT: $3,339,775 LIMIT/ITEM $500,000 DEDUCTIBLE: $1,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
City of Glendale is an additional insured. XCU is included. 30 Day Policy Cancellation Notice; 10 Day Non Payment of Premium Cancellation Notice

CERTIFICATE HOLDER
City of Glendale
5850 West Glendale Ave
Glendale, AZ 85301

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Michael Campbell

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