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January 19, 2007

Docket Control
Arizona Corporation Commission
1200 W. Washington
Phoenix, Arizona 85007

RE: WEST VALLEY – SOUTH POWER LINE and SUBSTATION PROJECT, DECISION NO. 66646
DOCKET NO. L-00000D-03-0122

Dear Mr. Johnson:

Pursuant to Decision No. 66646 dated December 22, 2003, Condition No. 16, Arizona Public Service is hereby filing its Construction Mitigation and Restoration Plan for the West Valley – South Power Line And Substation Project.

If you or your staff has any questions, please feel free to call me.

Sincerely,

Linda Thompson
Compliance Director

Attachment

LAT/srm

CC: Docket Control (Original, plus 25 copies)

Brian Bozzo, (Cover Letter Only)
Compliance and Enforcement
Arizona Corporation Commission

Suparna Dagupta, Planning & Zoning Manager
Town of Buckeye

Bob Coon, Planning Manager
City of Goodyear

Joy Rich, AICP, Director
Maricopa County Planning & Development Department

AZ CORP COMMISSION
DOCUMENT CONTROL

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CONSTRUCTION, MITIGATION, AND RESTORATION PLAN

for the

West Valley South 230kV PROJECT

for

Arizona Public Service Company

Prepared by

Environmental Planning Group

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CONSTRUCTION, MITIGATION, AND RESTORATION PLAN

INTRODUCTION

The West Valley South 230kV Transmission Line Project Construction, Mitigation, and Restoration Plan (CMRP) has been developed in accordance with Certificate of Environmental Compatibility (CEC) Condition 16. This condition states that “applicants shall, within one year of completion of the project, rehabilitate to its original state any area disturbed by construction of the project, except for any road that may be necessary to access the transmission lines for maintenance and repair,” and identifies goals and key elements to be addressed in the CMRP. The CMRP supports the following goals identified in Condition 16 of the CEC:

- Avoid impacts where practical
- Where impacts are unavoidable, minimize impacts
- Focus on site preparation to facilitate natural processes of revegetation

In addition to these goals, the CMRP addresses the key elements identified in Condition 16. The following are the key elements set forth in Condition 16 and locations where they are addressed within this document:

- Emphasize final site preparation to encourage natural revegetation – Section 3.0
- Avoid (i.e., preserve), where practical, mature native trees – Sections 1.5 and 2.1
- Stipulate a maximum construction corridor width – Section 1.1
- Reserve topsoil and native plant materials from right-of-way before grading and re-spread over the right-of-way after construction is complete – Sections 2.4 and 3.2
- Imprint the restored right-of-way to provide indentations to catch seed and water – Sections 3.3.2.1 and 3.3.2.2
- Implement best management practices to protect the soil – Sections 2.3, 2.4, and 3.2
- Apply restoration methods that have been shown to work in the desert environment – Sections 3.2 and 3.3
- Prevent, where applicable, the spread of noxious weeds or other undesirable species – Sections 3.3.1, 3.3.2.3, and 3.3.2.5

Other conditions of the CEC are also addressed in the CMRP. These specific conditions are identified below along with the corresponding locations of where they are generally located in the CMRP:

- Condition 6: Minimize or avoid impacts to cultural sites – Sections 1.8 and 2.6
- Condition 6: Develop treatment plans for cultural sites – Sections 1.8 and 2.6
- Condition 8: Retain archeological monitors – Section 2.6 (has this term been changed to represent language that may be in later CEC's)
- Condition 12: Utilize existing roads and minimize vegetation disturbance – Sections 1.2, 1.5 and 1.8
- Condition 14: Identify informational sign locations – Section 1.7
- Condition 17: Retain biological monitors, if needed – Section 2.5
- Condition 18: Salvage identified native plant species – Sections 1.5 and 2.1
- Condition 22 – The CMRP includes one submittal for both the substation site and the transmission line segments. The submittal will be filed with Arizona Corporation Commission (ACC) Docket Control before construction commences. The submittal for the project includes the section of planned transmission line along the north side of Indian School Road, from the Liberty-Estrella 230kV Transmission Line Corridor to the proposed TS-3 Substation, located adjacent to Cotton Lane (see attached plan and profiles). When the portion of the West Valley South Project north from TS3 to TS2 is constructed, the CMRP for that portion of the line will be submitted.

GENERAL CONSTRUCTION ACTIVITIES

Following is a general sequential description of the construction activities associated with the construction of the West Valley South 230kV Project. The activities are in three main groups:

- Pre-construction Activities
- Construction Activities
- Post-construction Activities

1.0 Pre-construction Activities

Pre-construction activities include surveying for transmission line design; designation of access and spur roads; designation of structure construction staging areas; designation of conductor stringing, tensioning, and pulling areas; identification of biological and cultural resources; and providing notice and securing permits that will be necessary before construction.

1.1 Survey of the Centerline

A ground survey and staking will be performed to verify and locate the centerline of the transmission line route, structure locations, and right-of-way boundaries. The right-of-way width will range between 100' to 150'. Activities will be limited to access and spur roads; designated structure construction staging areas; and conductor stringing, pulling and tensioning areas. These construction activity areas are identified in the plan and profiles.

1.2 Access and Spur Roads

Where possible, existing paved and unpaved highways and roads will be used for the initial transportation of materials and equipment from the construction yard and storage areas to locations where they will be needed along the transmission line right-of-way. Where the proposed transmission line parallels existing transmission lines or other linear features, existing access roads will be used, and new spur roads to structure sites will be constructed (as appropriate). Spur roads are roads off of existing roads or access roads to structure locations. Access and spur roads will be approximately 30 feet wide. If necessary, these existing roads will be upgraded, and all permanent roads utilized will be left in a condition equal to or better than their condition prior to construction. Any access not needed for the maintenance of the transmission line will be designated temporary access and will be restored to pre-construction conditions (see Section 3.0). All access to be used for the construction of the project will be delineated in the attached plan and profiles.

1.3 Structure Construction Staging Areas

Structure construction staging areas will be located at each structure site. These areas will be used for structure assembly and erection. The size of the staging area depends on the type of structure used. At the tower locations staging areas will be approximately 100 feet by 200 feet. Exceptions to staging area dimensions may occur due to environmental constraints. All structure locations and construction staging areas will be delineated in the attached plan and profiles.

1.4 Conductor Stringing, Tensioning, and Pulling Areas

Conductor stringing, tensioning, and pulling areas will be located at approximately 12,000-foot intervals between structures along the right-of-way. These areas will be approximately 100 feet by 400 feet. Exceptions to dimensions may occur due to environmental constraints. All conductor stringing, tensioning, and pulling areas will be delineated in the attached plan and profiles.

1.5 Vegetation Avoidance and Sensitive Plant Identification

The occurrence of natural vegetation along the proposed project is limited. Most of this vegetation along the right-of-way will be avoided. Some pruning of the natural vegetation will be required for land surveying activities, construction purposes (access and structure sites), clearances for electrical safety, long-term maintenance, and the reliability of the transmission line. Qualified biologists conducted field surveys to determine if mesquite, ironwood, saguaro and/or palo verde trees would be impacted. Sensitive plants within or adjacent to the right-of-way and areas of construction were identified in the plan and profiles and will be marked in the field with yellow flagging.

Each structure site will become a small staging area (Section 1.3) as materials for foundations, structures, and assemblies are delivered and erected. The trimming and crushing of brush and small trees will be done rather than uprooting them, to allow for regrowth. After construction, all areas not needed for the normal maintenance of the transmission line will be graded to blend as near as possible with natural contours.

1.6 Jurisdictional Washes

No jurisdictional washes will be crossed by the project.

1.7 Informational Signs

Informational signs were placed along the right-of-way to provide notice of the future transmission line. The locations of the signs are shown on the plan and profiles.

1.8 Cultural Site Clearance

Based on the results of the cultural resource inventory archeological studies conducted in support of the project, clearance is required before work can proceed at Structure 5/5. Access to this structure location is not allowed until clearance has been received from the Arizona State Historic Preservation Office (SHPO).

2.0 Construction Activities

This portion of the CMRP addresses construction clearing requirements (when necessary), grading, and monitoring.

Prior to the commencement of construction activities, the environmental contractor will instruct all construction personnel in cultural and biological sensitivity. The environmental contractor will provide information on biological and cultural resource preservation and avoidance for specific areas identified in the plan and profiles.

2.1 Vegetation Clearing

Vegetation clearing is expected in only a few, isolated areas. The clearing will be performed in a manner that will maximize the preservation of natural beauty and the conservation of natural resources and minimize scarring of the landscape. In construction areas where recontouring is not required, shrubs and small trees will be crushed or trimmed and left in place, and the original contour will be maintained to avoid excessive root damage and allow for resprouting.

Although it is not anticipated, any trees with at least a 4-inch-caliper trunks requiring removal will be salvaged in accordance with the Arizona Native Plant Law and will be used for reclamation in or near their original locations. Should removal be necessary for trees with less than a 4-inch caliper trunk, these trees will be flagged for identification and removal will be accomplished by cutting as near to the surrounding grade as possible and will not exceed eight inches above the grade when measured on the downhill side of the tree, and two inches on the uphill side of the tree.

The holder shall prune trees in preference to cutting trees, and shall cut trees with less than a 4-inch-caliper trunks in preference to bulldozing them. Saguaros will not be trimmed or cut.

Pruning will be accomplished by the use of pruning saws, power saws, nippers, bow saws, or cross-cuts. Limbs will be pruned flush with the trunk of the tree, except for portions of overhanging limbs. The use of axes for trimming will be prohibited.

2.2 Removal of Obstructions

The removal of trees, limbs, brush, and obstructions to access will be limited to those that hang over the roadway, hindering the driver's sight, or those with less than 12 feet of vertical clearance above the access roads. Trimming will be accomplished by use of pruning saws, power saws, nippers, bow saws, or cross-cuts. Limbs will be pruned flush with the trunk of the tree, except for portions of overhanging limbs. The use of axes for trimming will be prohibited. Piling and burning will not be permitted.

2.3 Construction Area Requirements

Construction areas include access roads, structure construction staging areas, and sites for conductor stringing, tensioning, and pulling. Overland travel will be used for the majority of new access needed along the transmission line route. Disturbance to access roads (limited to only a few areas), structure construction staging areas, and sites for conductor stringing, tensioning, and pulling will consist of the crushing or trimming of shrubs and small trees at ground level, to allow for re-sprouting, where applicable. Areas that will be disturbed include:

- Permanent and temporary access (including new and upgrades)
- Structure construction staging areas (approximately 100 feet by 200 feet at pole and H-frame locations) to allow efficient assembly and erection of structures

- Sites for conductor stringing, tensioning, and pulling at approximately 12,000-foot intervals and located between structures along the right-of-way (approximately 100 feet by 200 feet)

2.4 Grading

Grading will be limited to the construction of access and spur roads, although most access will be overland or use existing access. The method of restoration will consist of returning disturbed areas back to their original condition (see Section 3.1).

2.5 Biological Monitors

Biological monitors will not be needed because minimal disturbance to the native vegetation is anticipated.

2.6 Cultural Monitors

Once cultural resource clearance has been received from the Arizona SHPO for Structure 5/5, the access route and boundaries of the work area will be staked and flagged. All construction related activities will be restricted to the cleared work area. A cultural resource monitor will be present when construction occurs at this structure location.

2.7 Special Conditions

Dust control measures will be used on all roads when dust creates a nuisance or hazard and will include the following:

- Where necessary, fresh water will be used to control dust when grading roads, and will be applied to unpaved roads, a potential source of airborne dust.
- Open-bodied trucks transporting materials that are likely to become airborne when in motion will be covered, and other stockpiles will be enclosed as necessary.
- Earthen, and other, materials that may become airborne will be removed promptly from paved roads.

3.0 Post Construction Activities

The ultimate success of mitigating measures used for the project depend to a great extent on the reclamation practices taken for lands following construction of facilities. The following describes

the stabilization and rehabilitation measures proposed for the construction of the West Valley South Project.

3.1 Cleanup and Reclamation of Affected Area(s)

Construction sites and access roads will be kept in an orderly condition throughout the construction period. Refuse and trash will be removed from the sites and disposed of in an approved manner (e.g., in an approved landfill).

Temporary access roads, structure construction staging areas, and conductor stringing, tensioning, and pulling areas will be restored to their original conditions when construction is complete. After construction, the land will be restored to its original contour. Disturbance during construction will be minimized by the crushing and trimming of shrubs and small trees in structure construction staging areas and conductor stringing, tensioning, and pulling areas, where applicable. This will increase the chances of vegetation re-establishment in disturbed areas. Revegetation will not be applied to disturbed areas designated as permanent access.

3.2 Soil Replacement and Stabilization

The majority of the project crosses agricultural or transitional lands for which the topsoil has not been preserved. The construction contractor will, when appropriate, recontour cleared areas and replace and stabilize soil over temporary access roads.

3.2.1 Soil Replacement

The grading and the movement of earth will be limited to wash crossings, access road areas, and areas where recontouring is necessary. All disturbed areas will be reshaped to conform to the adjacent terrain as nearly as practical.

3.2.2 Recontouring of Disturbed Areas

The construction contractor shall recontour disturbed areas by grading, to restore the site to approximately the original contour of the ground. All site areas that require grading will be sloped to drain appropriately.

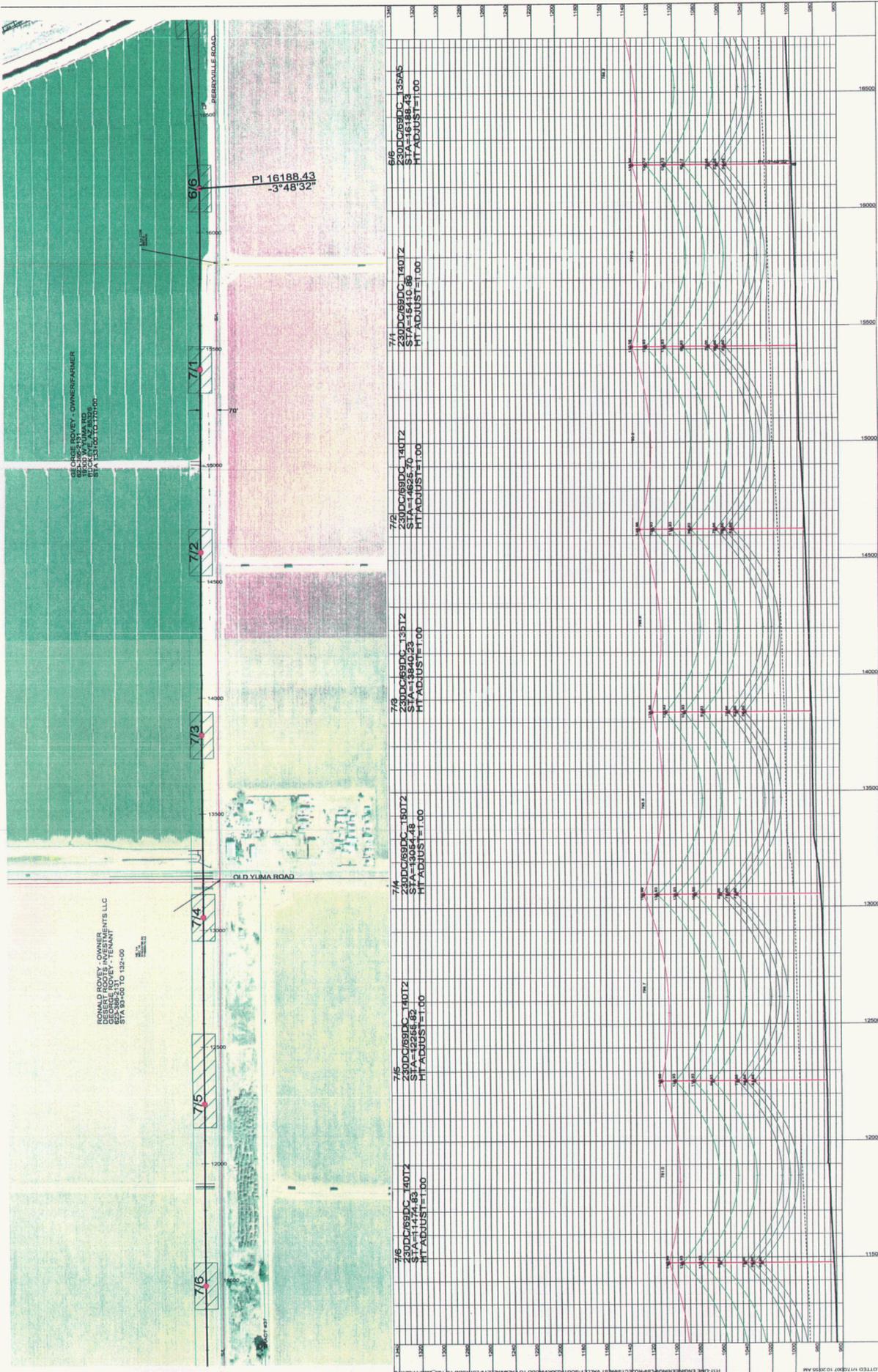
3.3 Revegetation and Seeding

Revegetation and seeding will not occur because the project crosses either agricultural lands or lands in transition, where native vegetation has been removed previously.

WEST VALLEY SOUTH 230KV TRANSMISSION LINE PROJECT CONSTRUCTION, MITIGATION, AND RESTORATION PLAN

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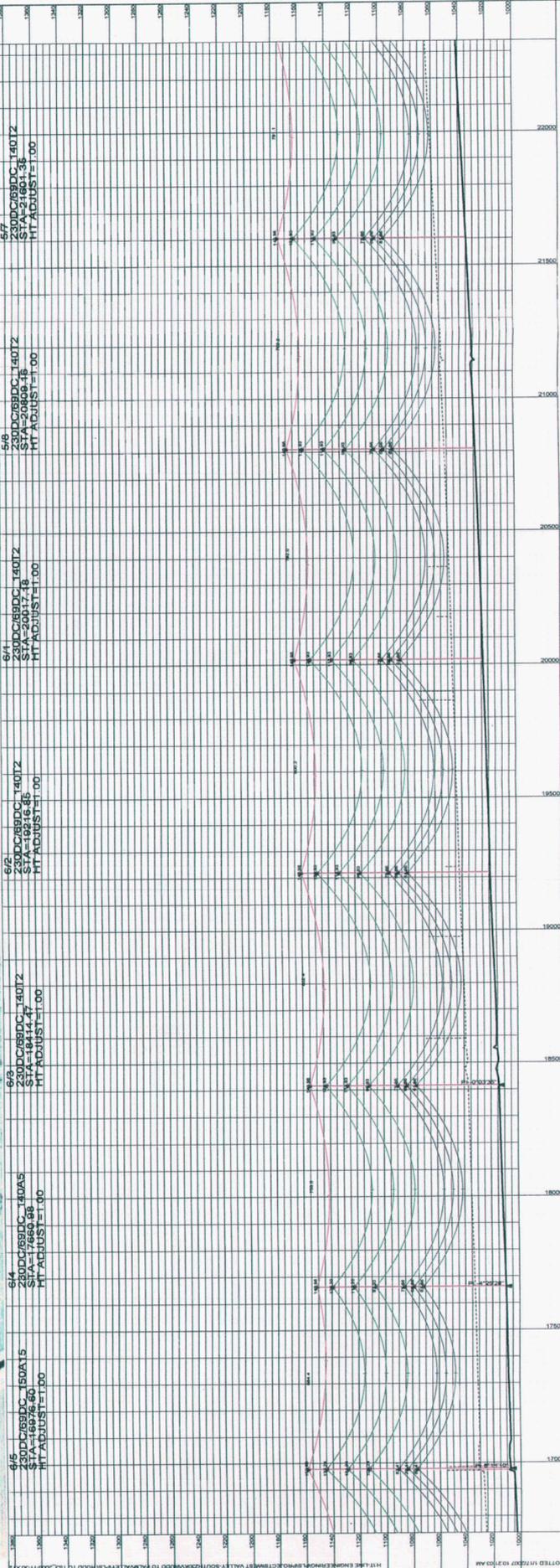


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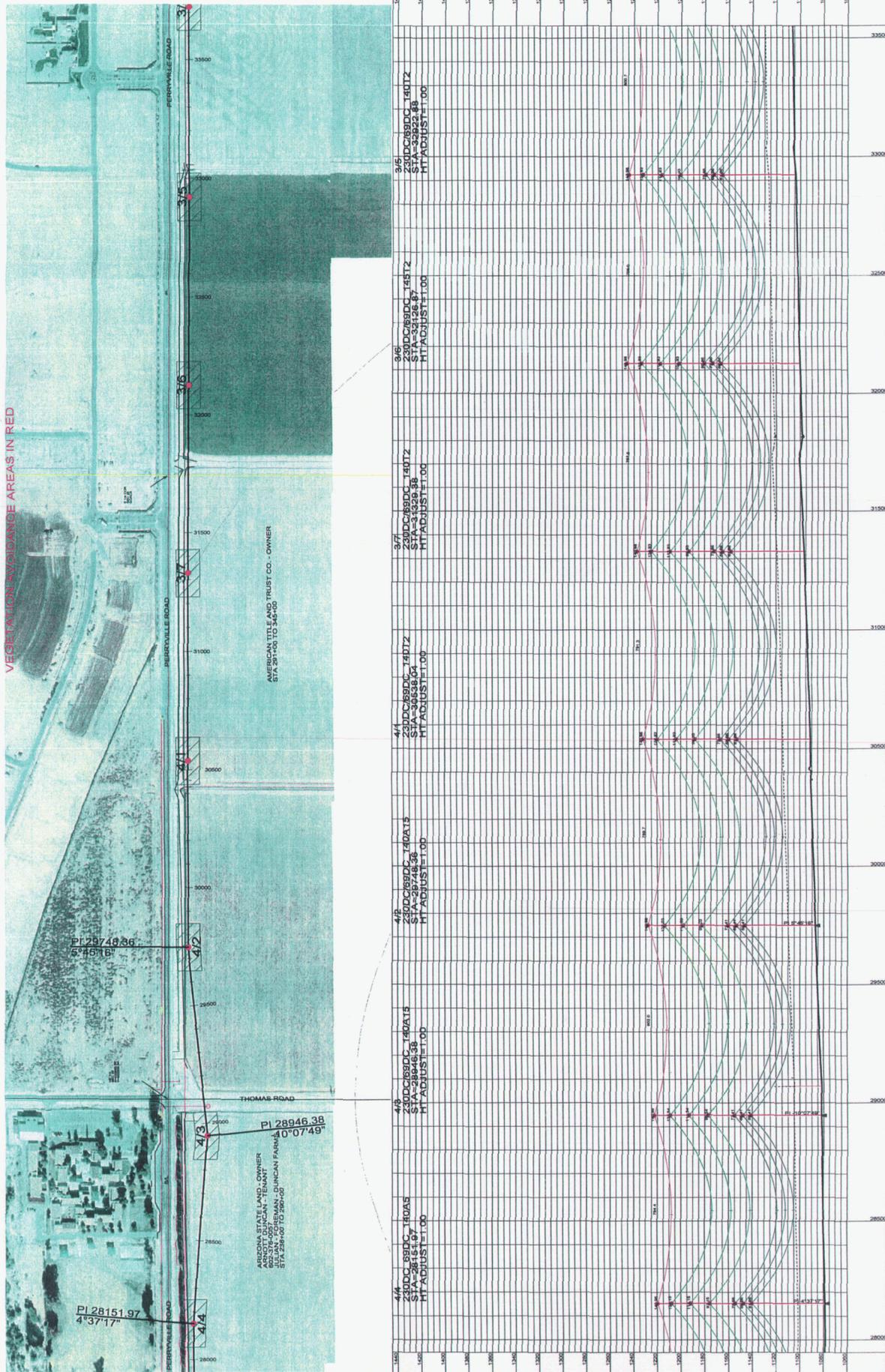
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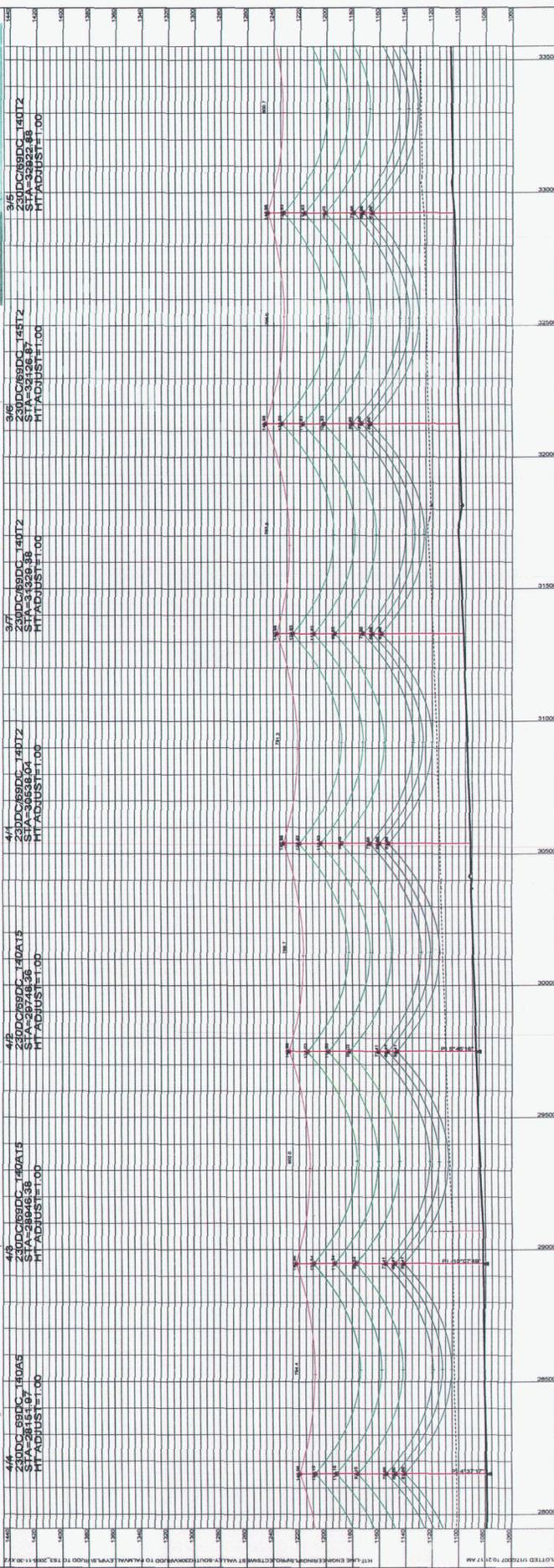
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WEST VALLEY SOUTH
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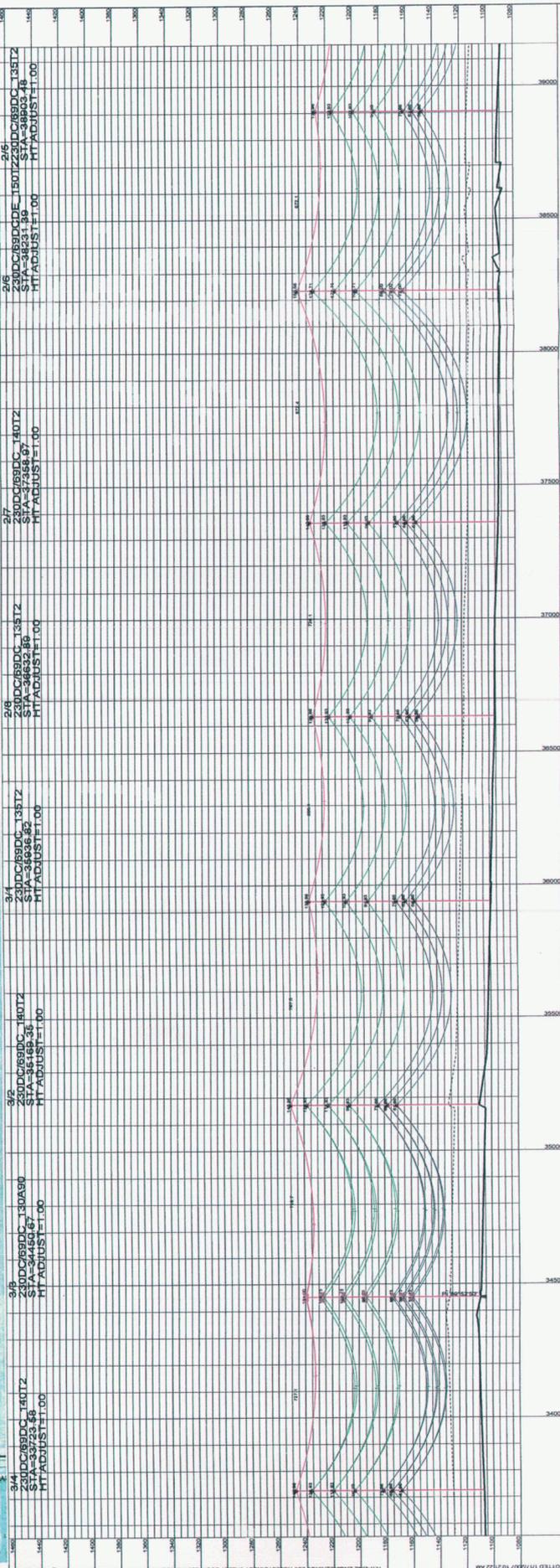
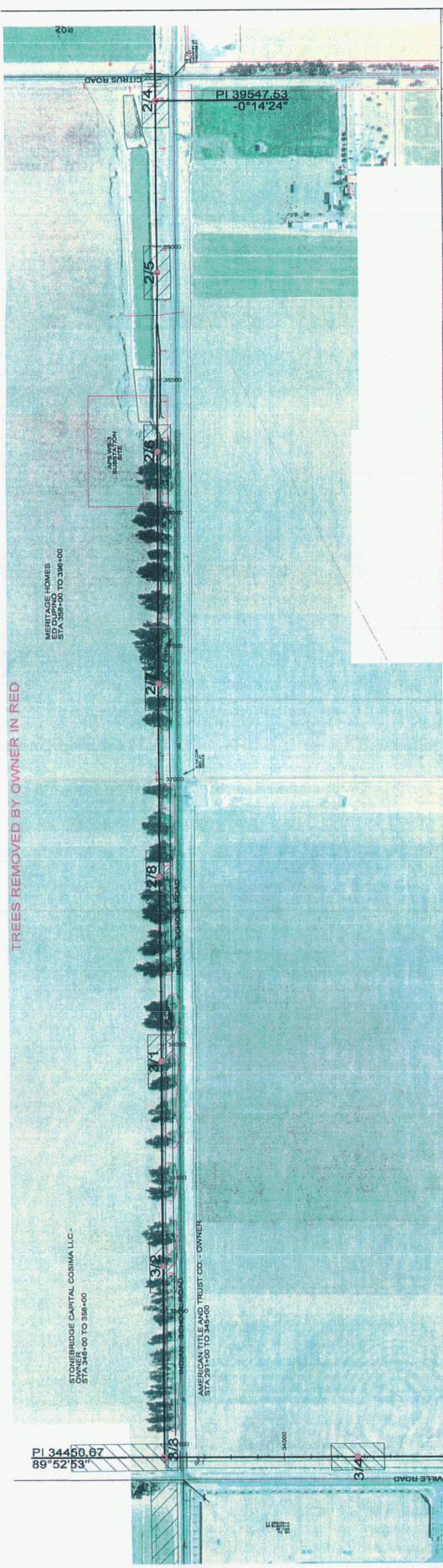
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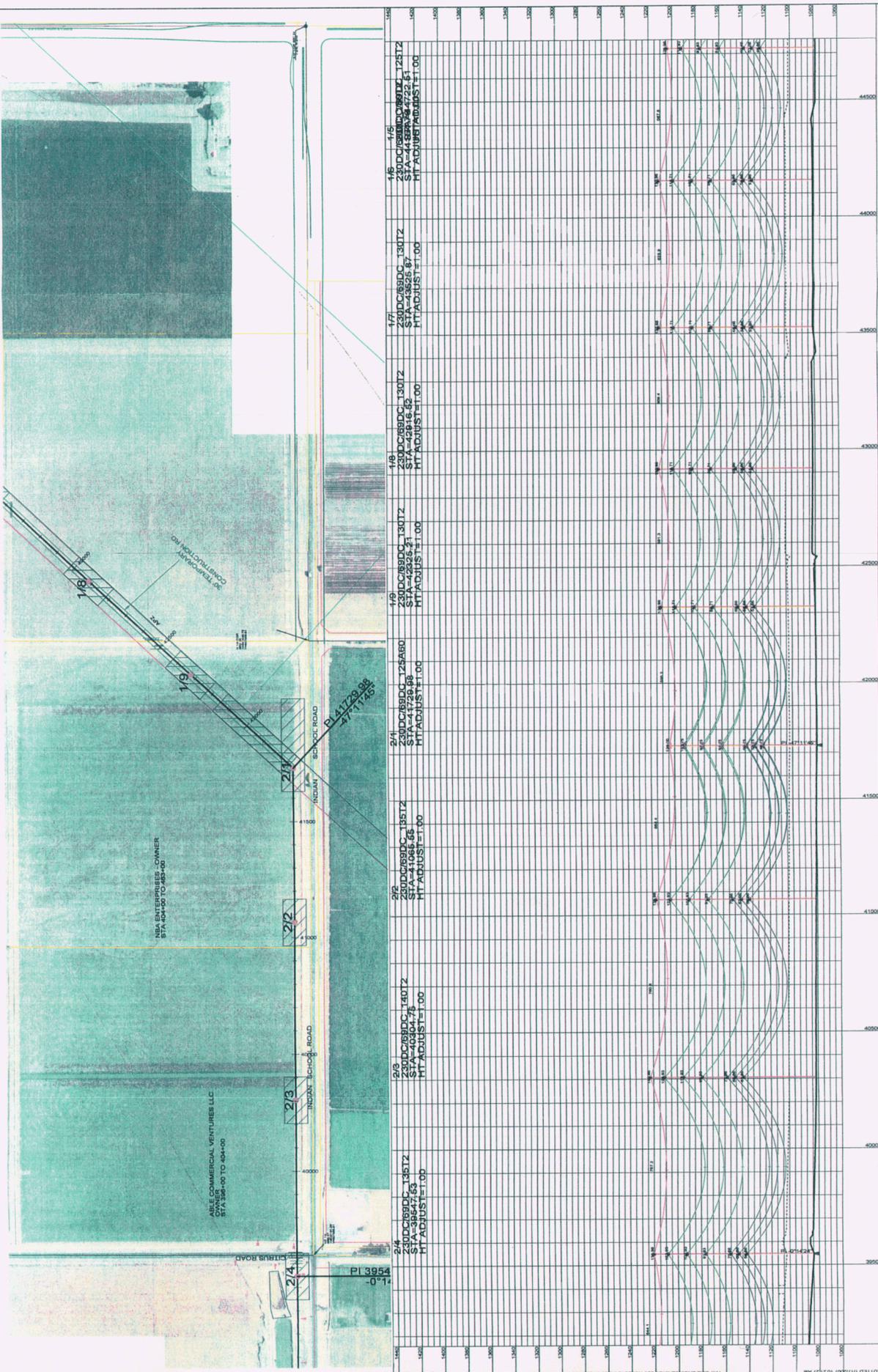
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REV 2	08/20/08	REVISEMENT	J.B.
REV 3	08/20/08	FINAL RELEASE	J.B.

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REV 2	08/20/08	REVISEMENT	J.B.
REV 3	08/20/08	FINAL RELEASE	J.B.

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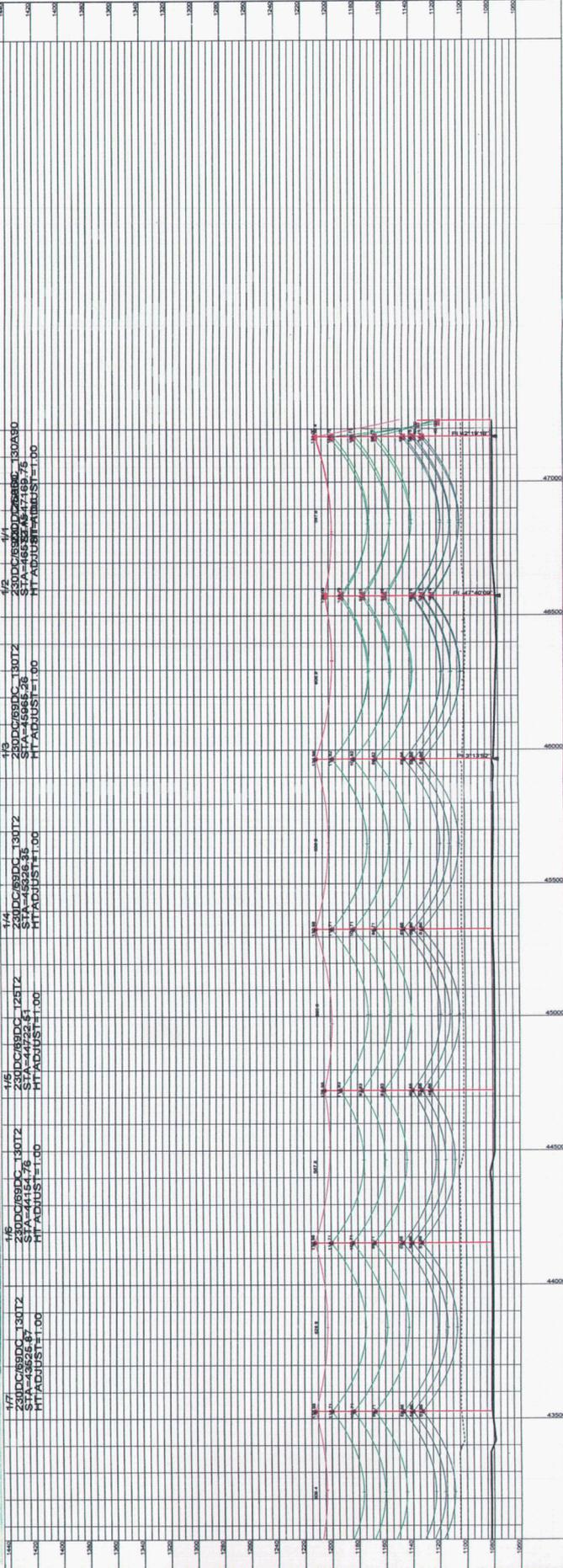
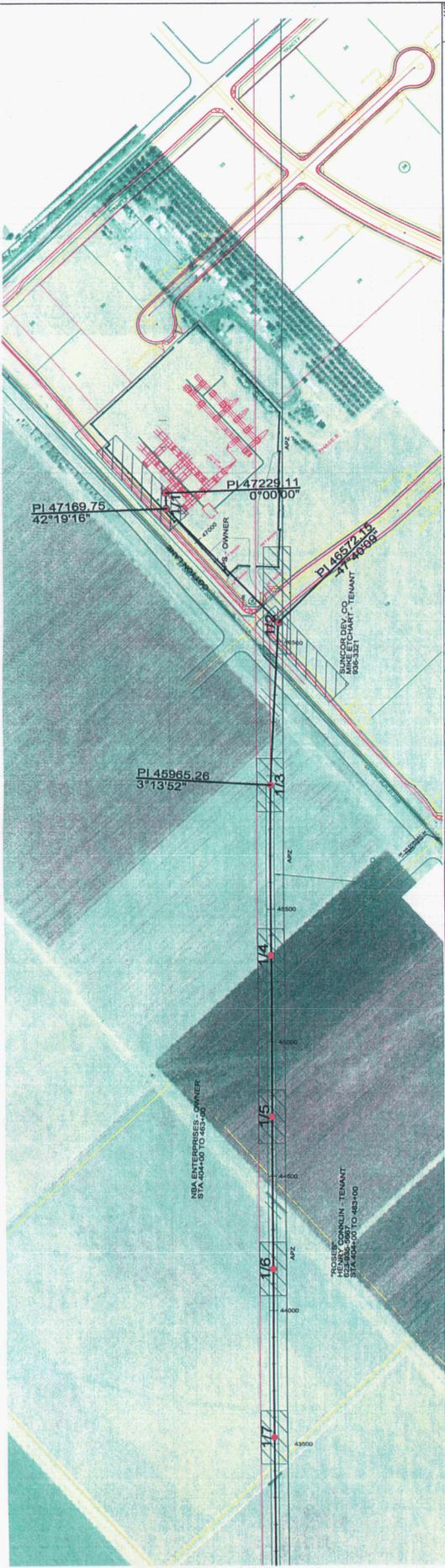
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WEST VALLEY SOUTH
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253-1100

1-800-SURVEY-IT
(OUTSIDE MARICOPA COUNTY)

NO	MAXIMQ	DATE	DESCRIPTION	BY
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2	W186815	10/27/06	NEW ALIGNMENT	J.R.
3	W186815	08/05/06	INITIAL RELEASE	J.R.

265 FT. HORIZ SCALE

48.5 FT. VERT SCALE