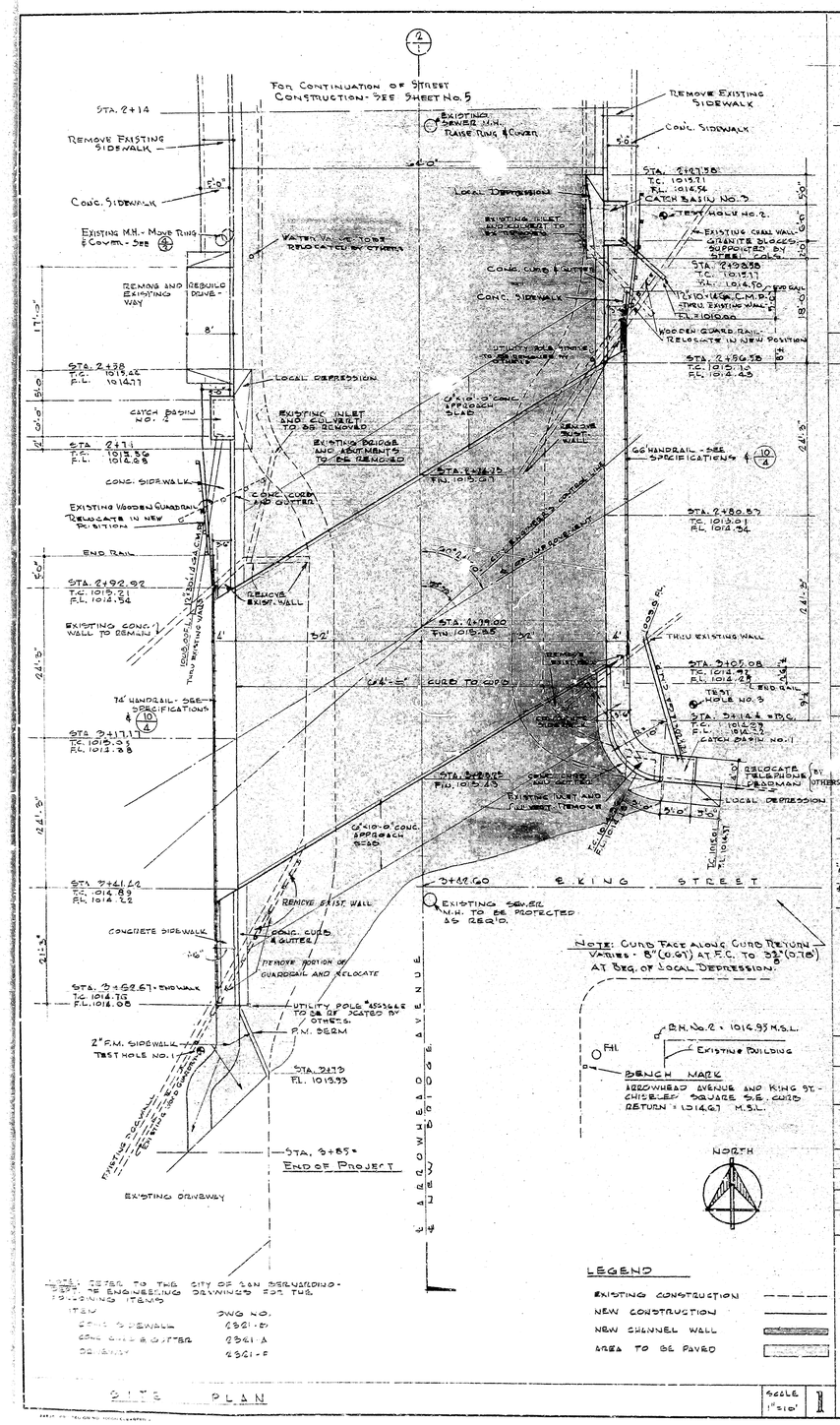
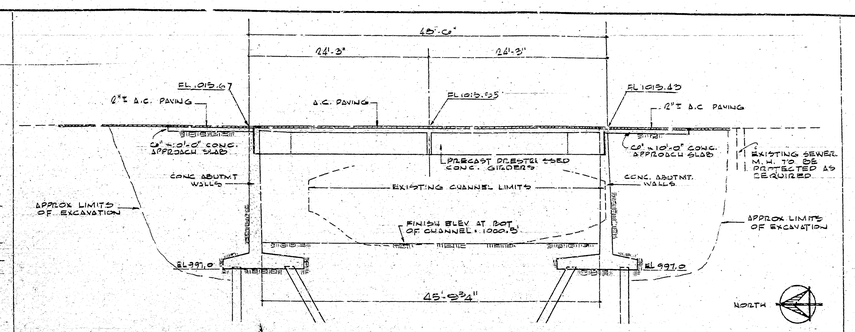
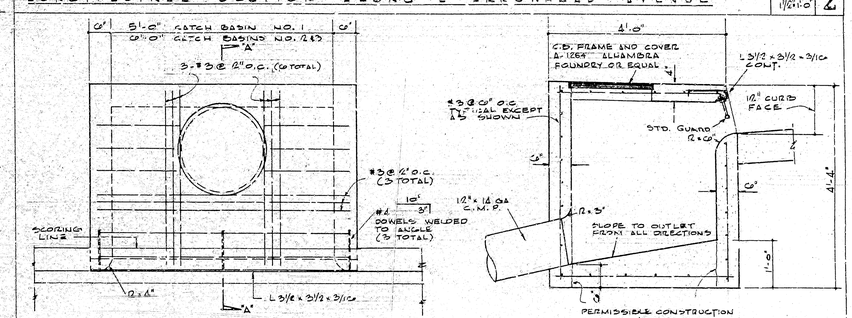


SITE PLAN — SCALE 1" = 10'

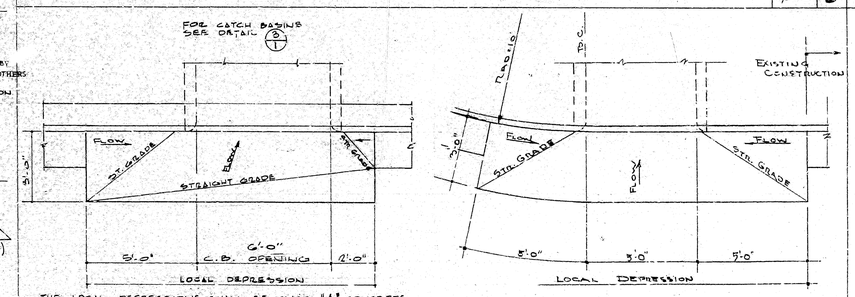


LONGITUDINAL SECTION ALONG ℄ ARROWHEAD AVENUE — SCALE 1/16" = 1'-0" — 2



PLAN — SECTION "A"-"A"

CATCH BASIN — SCALE 3/8" = 1'-0" — 3



The local depressions shall be class "A" concrete 8" thick. The outer edges of the depressions shall conform to the finished street surface.

Catch Basins No. 2 & 3 — Catch Basin No. 1

LOCAL DEPRESSIONS — SCALE 3/8" = 1'-0" — 4

1. The contractor shall verify all dimensions at the site.

2. Concrete

Concrete shall achieve the following minimum cylinder strengths.

	At Jacking	28 Days
Prestressed girders	4500 psi	4500
Deck pour joints		3000
Abutment walls & wing walls		3000
Pilcs		3000
Conc. basins and approach slabs		4000
Sidewalks, local depressions, curbs and gutters		2000

Deck pour joints shall be cured by keeping wet for 7 days or by use of a suitable curing compound.

Dowels, metal inserts, pipes, etc. shall be securely anchored in place before the conc is poured.

Location of construction joints other than those shown on drawings must be approved by the City Engineer or his representative.

No pipes or ducts shall be placed in the structural conc. unless specifically detailed.

No brick or porous material shall be used to support steel off the ground.

3. Reinforcing Steel (Excluding of Prestressing Steel)

Reinforcing steel shall be intermediate grade deformed bars meeting the requirements of billet steel bars in ASTM A-15 and with deformations conforming to A-ITM A-305.

Reinforcing steel shall have the following min. cover for the main steel.

Concrete against earth	3"
Concrete walls not against earth	2"
Deck slabs	1"

Unless otherwise detailed splices in reinf. steel shall be lap & min. of 45 bar diameters.

4. Prestressing

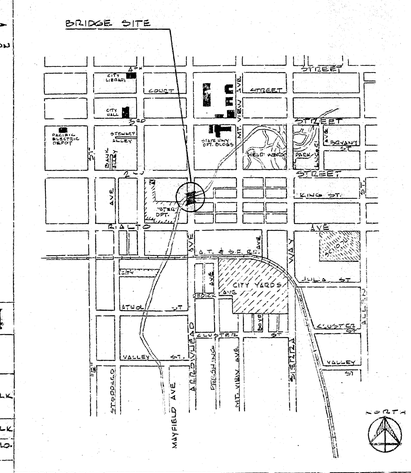
Working force - the force remaining after all losses, including those due to creep and shrinkage of concrete and creep of steel have occurred. 233,000 lbs. per girder.

The loss in stress in post-tensioned prestressing steel due to shrinkage and creep and sequence stressing shall be assumed to be 24,000 psi.

In addition to the 24,000 psi loss, provision shall be made for losses due to friction, anchorage take up, and any other losses peculiar to the system of prestressing used.

Loss in stress for pretensioning system shall be assumed to be 30,000 psi.

GENERAL NOTES — 3



VICINITY & LOCATION MAP

Utility Information

Utility	Utility Company	Work by Utility	Work by Contractor	Location
Telephone	Pacific Telephone and Telegraph Co.	Support and protection of existing facilities (1-2" I.D. conduit), furnish & install 10-3/4" ducts	Cooperate with utility	Under east sidewalk
Telephone	General Telephone Co.	Protection of existing facilities furn. & inst. 2-4" transite ducts	Cooperate with utility	Under west sidewalk
Gas	So. California Gas Co.	By-pass existing. Install new 4" main.	Install 3-8" sleeves in diaphragms	10'± east of ℄ Rd'o. cons. 6'± east of ℄.
Water	City of San Bernardino	By-pass existing. Install new 8" main	Install 3-16" sleeves in diaphragms	7'± west of ℄
Street Light'g	City of San Bernardino	Furnish and install 2-1 1/4" I.D. conduits	Cooperate with city	One conduit under ea. sidewalk

Note: Refer to the City of San Bernardino - Traffic Engineering Drawings for the following items

Item	Dwg No.
Conc. Sidewalk	2321-B
Conc. Curb & Gutter	2321-A
Driveway	2321-F

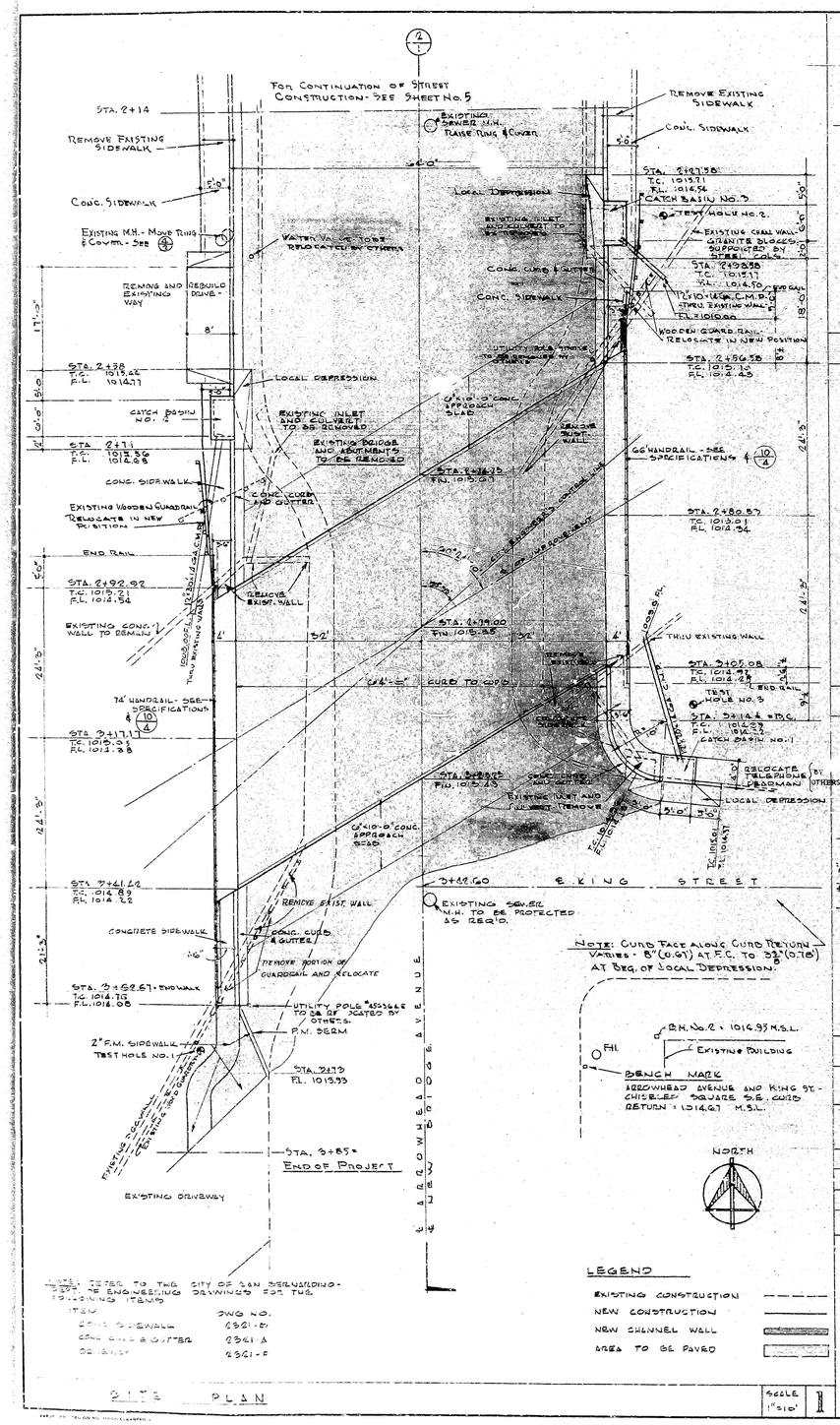
City of San Bernardino

ARROWHEAD AVENUE BRIDGE
AT WARM CREEK

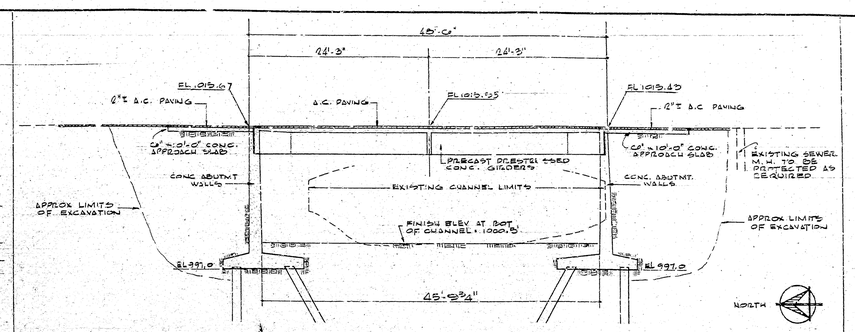
GAS TAX PROJECT 182

Jay C. Davis - R.E. 13111
Sept. 22, 59
Russell E. Wolfard
9879 D. Davis

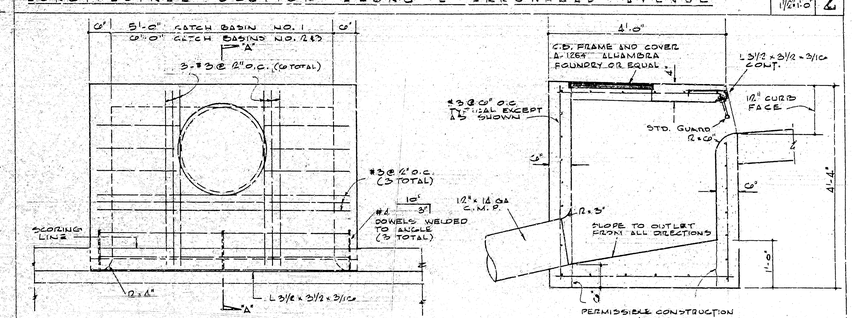
2426 — 1



SITE PLAN — SCALE 1" = 10'

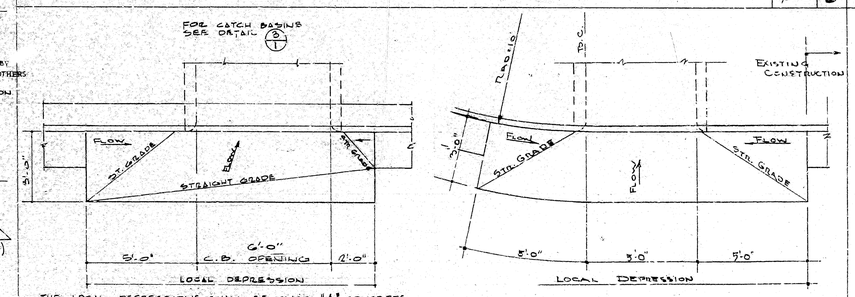


LONGITUDINAL SECTION ALONG ℄ ARROWHEAD AVENUE — SCALE 1/16" = 1'-0" — 2



PLAN — SECTION "A"-"A"

CATCH BASIN — SCALE 3/8" = 1'-0" — 3



The local depressions shall be class "A" concrete 8" thick. The outer edges of the depressions shall conform to the finished street surface.

Catch Basins No. 2 & 3 — Catch Basin No. 1

LOCAL DEPRESSIONS — SCALE 3/8" = 1'-0" — 4

1. The contractor shall verify all dimensions at the site.

2. Concrete

Concrete shall achieve the following minimum cylinder strengths.

	At Jacking	28 Days
Prestressed girders	4500 psi	4500
Deck pour joints		3000
Abutment walls & wing walls		3000
Pilcs		3000
Conc. basins and approach slabs		4000
Sidewalks, local depressions, curbs and gutters		2000

Deck pour joints shall be cured by keeping wet for 7 days or by use of a suitable curing compound.

Dowels, metal inserts, pipes, etc. shall be securely anchored in place before the conc is poured.

Location of construction joints other than those shown on drawings must be approved by the City Engineer or his representative.

No pipes or ducts shall be placed in the structural conc. unless specifically detailed.

No brick or porous material shall be used to support steel off the ground.

3. Reinforcing Steel (Excluding of Prestressing Steel)

Reinforcing steel shall be intermediate grade deformed bars meeting the requirements of billet steel bars in ASTM A-15 and with deformations conforming to A-ITM A-305.

Reinforcing steel shall have the following min. cover for the main steel.

Concrete against earth	3"
Concrete walls not against earth	2"
Deck slabs	1"

Unless otherwise detailed splices in reinf. steel shall be lap & min. of 45 bar diameters.

4. Prestressing

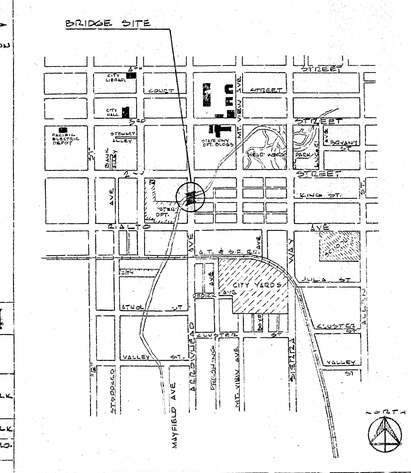
Working force - the force remaining after all losses, including those due to creep and shrinkage of concrete and creep of steel have occurred. 233,000 lbs. per girder.

The loss in stress in post-tensioned prestressing steel due to shrinkage and creep and sequence stressing shall be assumed to be 24,000 psi.

In addition to the 24,000 psi loss, provision shall be made for losses due to friction, anchorage take up, and any other losses peculiar to the system of prestressing used.

Loss in stress for pretensioning system shall be assumed to be 30,000 psi.

GENERAL NOTES — 3



VICINITY & LOCATION MAP

Utility Information

Utility	Utility Company	Work by Utility	Work by Contractor	Location
Telephone	Pacific Telephone and Telegraph Co.	Support and protection of existing facilities (1-2" I.D. conduit), furnish & install 10-3/4" ducts	Cooperate with utility	Under east sidewalk
Telephone	General Telephone Co.	Protection of existing facilities furn. & inst. 2-4" transite ducts	Cooperate with utility	Under west sidewalk
Gas	So. California Gas Co.	By-pass existing. Install new 4" main.	Install 3-8" sleeves in diaphragms	10'± east of ℄ Rd'o. cons. 6'± east of ℄.
Water	City of San Bernardino	By-pass existing. Install new 8" main	Install 3-16" sleeves in diaphragms	7'± west of ℄
Street Light'g	City of San Bernardino	Furnish and install 2-1 1/4" I.D. conduits	Cooperate with city	One conduit under ea. sidewalk

Note: Refer to the City of San Bernardino - Traffic Engineering Drawings for the following items

Item	Dwg No.
Conc. Sidewalk	2321-B
Conc. Curb & Gutter	2321-A
Driveway	2321-F

City of San Bernardino

ARROWHEAD AVENUE BRIDGE
AT WARM CREEK

GAS TAX PROJECT 182

Jay C. Davis - R.E. 13111
Sept. 22, 59
Russell E. Wolfard
9879 D. Davis

2426 — 1