INDEX OF SHEETS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ADJACENT TO
STATE HIGHWAY
IN LOS ANGELES COUNTY
AT VARIOUS LOCATIONS

To be supplemented by Standard Plans dated July, 1997

LOCATION OF CONSTRUCTION

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AS BUILT

The Contractor shall possess the Class (or Classes) of License as specified in the "Notice to Contractor".

DATE: SEP 6, 2000

Contract No.
GENERAL

01 GENERAL
The general notes and typical details are general in nature and reflect a typical project. Where there are specific indications to the contrary:

02 APPLICABLE SPECIFICATIONS AND CODES
Construction shall be in accordance with the 1994 Edition of the Uniform Building Code, UBC. Inc. In areas where the code is not applicable, the following notes are made restrictive:

03 ALTERNATIVE DESIGNS
The structural systems and details on these plans are the priority design. Alternative systems and details may be used by the contractor with plans and calculations presented to the architect for review.

04 CONSTRUCTIONS
Structural systems controlled by or related to mechanical or electrical equipment shall be verified by the contractor prior to construction.

05 ERECTION OF EQUIPMENT
Mechanical and electrical equipment supports and standings, openings, access and shelves shall be shown on the drawings but not constructed unless otherwise noted.

06 CONSTRUCTION CAUTIONS
Structures shall be designed for operational loads on completed structures. Structures shall be protected by masking and shielding whenever excessive construction loads may occur during construction.

07 CONCRETE SURFACES
Concrete surfaces shall be smooth, and slopes shall be 2" per foot except where noted otherwise on the plans.

CONCRETE

07 APPLICABLE CODE
Concrete construction shall conform to the 1995 Edition of the ACI 318-95 Code (ACI-318).

08 REINFORCING STEEL DETAILS
All reinforcing steel and erection of reinforcing bars, unless otherwise specified, shall be in accordance with Manual of Standard Practice for Detailing Reinforced Concrete, 1982, ACI 318-95, Latest Edition.

09 REINFORCING STEEL
A. Concrete to be used ultimate compressive stress at 28 days.
B. Reinforcing steel
- ASTM A615, Grade 40, deformed bars
- ASTM A416, Grade 60, deformed bars

C4 CONCRETE COVER
Concrete cover for reinforcing bars shall be 1.5" for former surfaces unless specified otherwise and foundation mats on ground shall be 75.".

C5 EXTRA ACCESSORY BARS
In addition to normal reinforcing bars used to hold reinforcing steel, forms in position, extra accessory bars shall be used as follows:
A. In slabs, use rebar at 30" O.C. maximum to 5" of top reinforcing steel.
B. In walls with two rebar sizes, use 2" or 2.25" rebar spacers at 18.75".

C6 BAR LEAD SPACERS
Concrete shall be placed within 4" of reinforcing bars with which they are used, unless otherwise noted. Extra lead up to 75 cm in columns and 50 cm in beams shall be used in both directions. Reinforcing bar leads in columns shall have at least 48 mm diameter lead.

08 STANDARD JOISTS
Class B-6.1, 23" long, 8.5" wide, R-11.7, U-1.0, shall be spaced 48" O.C. and shall be rigidly connected to the ceiling frame. Joists shall be spaced 24" O.C. at window and door openings.

09 SLIPPING GLASS
Concrete glass shall be 12 mm thick and shall be rigidly attached to the building frame. Joists shall be 150 mm thick, reinforced with a 30 mm wide strip at the bottom of the joist.

C8 GROUND SUPPORTED SLABS
Concrete slabs supported by ground, unless otherwise specified, shall be 125 mm thick, reinforced with a 75 mm wide strip at mid-depth of slab.

STEEL

51 APPLICABLE CODE

52 MATERIAL
All structural shapes, bars, plates and sheets indicated on the drawings shall be steel, meeting ASTM A572, unless otherwise noted.

53 ROLLING MILLING MILLIONS SHALL CONFORM TO H.O. CODE FOR A8 AND OHS MILLING IN BUILDING CONSTRUCTION. MILLER SHALL BE CERTIFIED.

54 ENCLOSED STEEL
Steel completely enclosed in concrete shall not be cushioned by painting and shall have a clean surface for bonding to concrete.

55 GRANULAR
Structural steel shall be painted in accordance with specifications.

56 ALUMINUM

A. APPLICABLE CODE

A1 MATERIAL
Anodizing or otherwise specified structural aluminum shall be alloy 6061-T6 as specified in ASTM B 209.

A2 ALUMINUM IN CONTACT WITH CONCRETE
Contact surfaces shall be coated with heavy alkali resistant aluminum paint in contact with concrete or aluminized surfaces.

AS BUILT

By MAY 26, 2000

DATE

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STRUCTURAL GENERAL NOTES
NOTES:
1. ALL 90° BENDS SHALL BE STANDARD HOOPS PER ACI 318 UNLESS OTHERWISE SPECIFIED.
2. SEE OTHER DETAILS AND NOTES FOR SIZE AND SPACING OF REINFORCING.
3. LAY AND HOOK FOOTING BARS AT CORNERS AND INTERSECTIONS SAME AS FOR WALLS EXCEPT THAT ADDED VERTICAL AT CORNERS AND INTERSECTIONS ARE NOT REQUIRED.

REINFORCING STEEL AT WALL INTERSECTIONS

DETAIL

SCALE: NO SCALE

REINFORCING AT SLAB AND WALL OPENINGS

DETAIL

SCALE: NO SCALE

FOR CIRCULATION OPENING

NOTES:
1. TRANSVERSAL REINFORCEMENT NOT SPECIFIED, BUT SHALL BE TREATED IN SAME MANNER AS BARS SHOWN.
2. W = DIMENSION OF OPENING PERPENDICULAR TO BARS CUT.
3. FOR CIRCULAR OPENINGS: W = DIAMETER.
4. FOR SLAB AND WALL OPENINGS NOT SPECIFIED ON STRUCTURAL DRAWINGS.
5. SUPPLEMENTAL REINFORCEMENT NOT REQUIRED WHEN SPECIFIED REINFORCING IS CUT.
6. ALL OPENINGS IN WALLS AND SLABS LARGER THAN 900 MM IN ANY DIRECTION SHALL CONFIRM TO DETAIL.

TYPICAL CONCRETE AND MISCELLANEOUS DETAILS

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AS BUILT

By

DATE

MAY 26, 2000

TYPICAL CONCRETE AND MISCELLANEOUS DETAILS
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

NOTE:
SEE DAC E-8 FOR LEGEND, NOTES AND DETAILS.
NOTES:

1. TYPE 11 of service equipment enclosure with provisions for the 50/60 Hz, 3-wire, 208/240V, 30A/20A main and 1-32A/20A, 6-20A/15A branch circuit breaker.

2. For connection of influent/in-flow sampler and flow meter.

3. For connection of effluent/out flow sampler and flow meter.


LEGEND:

1. Stanchion mounted junction box, weatherproof.

2. Stanchion mounted duplex receptacle outlet, weatherproof.

3. Existing switchboard/panelboard and cabinet.

4. Existing electrical equipment.

- - - - Cross lines indicates number of 1/2 amp. No cross lines indicates 2 x 12 amp, unless otherwise noted. All conduits unless otherwise noted.

5. Multiconductor conduit to remain.

6. Existing conduit to remain.

7. Stanchion mounted motor starter for the effluent pump, weatherproof.

8. Effluent pump motor with float switch.

ELECTRICAL LEGEND, NOTES AND DETAILS

AS BUILT

By: __________

DATE: MAY 26, 2000