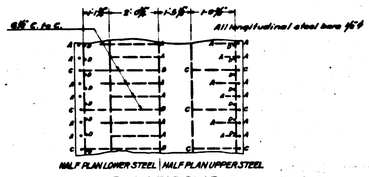
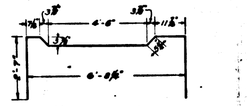
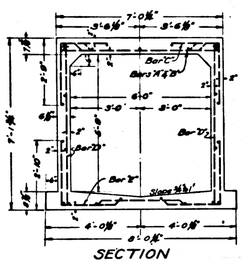


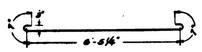
PLAN TOP SLAB



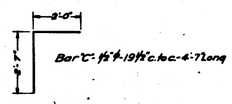
Bar "A"- ½" ϕ Alternately 6½" & 13" c. to c. 12'-1½" Long
Alternate long and short ends.



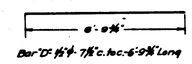
SECTION



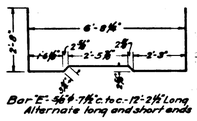
Bar "B"- ½" ϕ - 19½" c. to c. - 7'-7½" Long



Bar "C"- ½" ϕ - 19½" c. to c. - 4'-7" Long

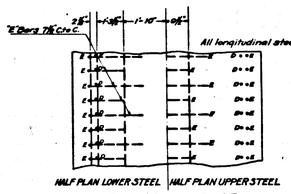


Bar "D"- ½" ϕ - 7½" c. to c. - 6'-9¾" Long



Bar "E"- ½" ϕ - 7½" c. to c. - 12'-2½" Long
Alternate long and short ends

Longitudinal steel bars ½" ϕ

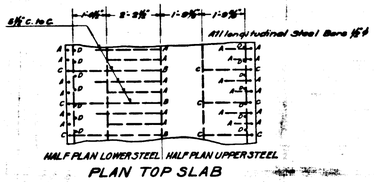


PLAN FLOOR SLAB

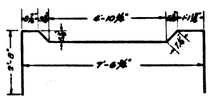
Section "B" from Station 58+05 to Station 66+90 Olive Ave. Trunk. See Sheet #2
Total Length 885 Feet.
Class "A" Concrete 0.5962 Cubic Yards per Foot.
Reinforcing Steel 77.711 Pounds per Foot (on tangent)
Top Slab: Cover 6.5 to 7.5 Ft., Total Load 1164 Pounds per Square Foot.
Dimensions to Reinforcing Steel Refer to Center Lines.

REINFORCED CONCRETE BOX 6'-0" x 5'-9"
SECTION "B"

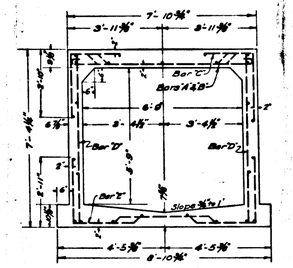
FROM STATION 58+05 TO STATION 66+90 OLIVE AVE. TRUNK
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A-1"
SCALE ½" = 1'



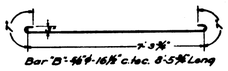
PLAN TOP SLAB



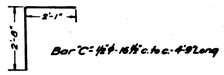
Bar "A"- ½" ϕ Alternately 5½" and 11" c. to c. 15'-5" Long
Alternate long and short ends.



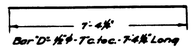
SECTION



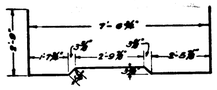
Bar "B"- ½" ϕ - 16½" c. to c. 8'-5¾" Long



Bar "C"- ½" ϕ - 16½" c. to c. - 4'-8" Long

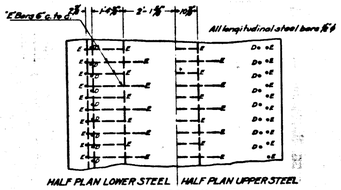


Bar "D"- ½" ϕ - 7" c. to c. - 7'-4¾" Long



Bar "E"- ½" ϕ - 6" c. to c. - 13'-3¾" Long
Alternate long and short ends.

Longitudinal steel 25 Bars ½" ϕ



PLAN FLOOR SLAB

Section "A" from Station 67+00 to Station 69+27.36 of Olive Ave. Trunk. See Sheet #2
Total Length 227.36 Feet.
Class "A" Concrete 0.7276 Cubic Yards per Foot
Reinforcing Steel: 94.0323 Pounds per Foot (on tangent)
Top Slab: Cover 7 to 9.5 Ft., Total Load 1357 Pounds per Square Foot.
Dimensions to Reinforcing Steel Refer to Center Lines.

REINFORCED CONCRETE BOX 6'-9" x 5'-9"
SECTION "A"

FROM STATION 67+00 TO STATION 69+27.36 OLIVE AVE. TRUNK
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A-1"
SCALE ½" = 1'

NOTES:

All reinforced concrete structures shall be of Class "A-1" Concrete.

Weep holes ¾" in diameter shall be placed in each sidewall and spaced not more than five feet each way.

WEST ALTADENA DRAINAGE SYSTEM

OF THE COUNTY OF LOS ANGELES, CALIFORNIA

DETAILS OF BOX SECTIONS

SHEET 4 OF 5 SHEETS

SCALE ½" = 1' OCT. 1934

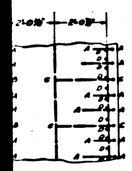
ALFRED JONES, COUNTY SURVEYOR

RECOMMENDED: E. E. Mitchell, Sheet Engr. APPROVED: Alfred Jones, County Surveyor

REFERENCE				
		DESIGNED	E.E. Mitchell	SEPT. 1934
		TRACED	P.I. Munstock	OCT. 1934
		CHECKED	R.L. Gregory	SEPT. 1934

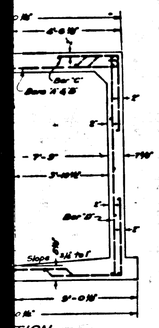
CSB-1163-4
A1 OF A3

4

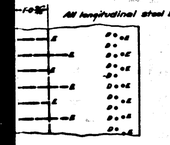


HALF PLAN UPPER STEEL

OP SLAB



TION



All longitudinal steel bars 1/2" ϕ

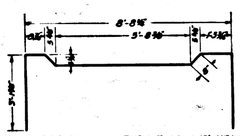
HALF PLAN UPPER STEEL

OOR SLAB

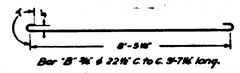
ction "E" from Station 25+00 to Station 30+00 of Olive Ave. Trunk. See Sheet #2
tal Length 500 Feet.
ass "A" Concrete 0.9479 Cubic Yards per Foot.
inforcing Steel 1:20.03 Pounds per Foot (on tangent)
p Slab: Cover: 3.5 to 7.5 Ft. Total Load 1181 Pounds per Square Foot.
mensions to Reinforcing Steel Refer to Center Lines.

INFORCED CONCRETE BOX 7'-9" x 7'-9"
SECTION "E"

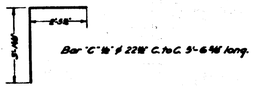
ATION 25+00 TO STATION 30+00 OLIVE AVE. TRUNK.
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A1"
SCALE 1/2"=1'



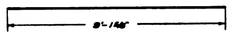
Bar "A" 9/16" ϕ Alternately 7'-1/16" & 15" C. to C. 15'-4 1/16" Long
Alternate long and short ends.



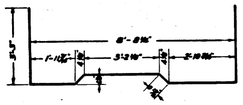
Bar "B" 9/16" ϕ 22 1/16" C. to C. 9'-7 1/16" long.



Bar "C" 1/2" ϕ 22 1/16" C. to C. 5'-6 9/16" long.

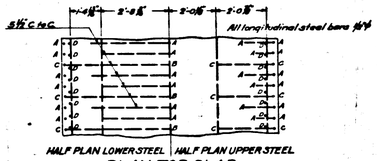


Bar "D" 1/2" ϕ 5" C. to C. 9'-1 9/16" long.



Bar "E" 9/16" ϕ 8" C. to C. 15'-5 9/16" Long.
Alternate long & short ends.

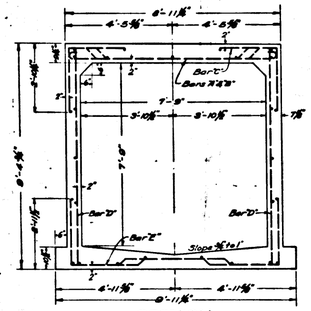
Longitudinal steel 27 bars 1/2" ϕ



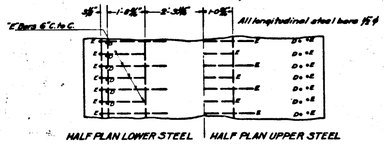
All longitudinal steel bars 1/2" ϕ

HALF PLAN LOWER STEEL | HALF PLAN UPPER STEEL

PLAN TOP SLAB



SECTION



All longitudinal steel bars 1/2" ϕ

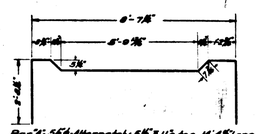
HALF PLAN LOWER STEEL | HALF PLAN UPPER STEEL

PLAN FLOOR SLAB

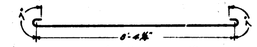
Section "D" from Station 30+00 to Station 39+70 of Olive Ave. Trunk. See Sheet #2
Total Length 970 Feet.
Class "A" Concrete 0.8841 Cubic Yards per Foot.
Reinforcing Steel 108.0799 Pounds per Foot (on tangent)
Top Slab: Cover: 3.5 to 5.5 Ft. Total Load 1076 Pounds per Square Foot.
Dimensions to Reinforcing Steel Refer to Center Lines.

REINFORCED CONCRETE BOX 7'-9" x 7'-9"
SECTION "D"

FROM STATION 30+00 TO STATION 39+70 OLIVE AVE. TRUNK
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A1"
SCALE 1/2"=1'

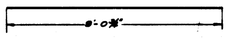


Bar "A" 5/8" ϕ Alternately 5 1/8" & 1'-1/2" t.o.c. - 16'-4 1/8" Long
Alternate long and short ends.

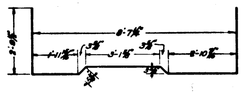


Bar "B" 5/8" ϕ - 16 1/8" c. to c. - 9'-6 1/8" Long

Bar "C" 1/2" ϕ - 16 1/8" c. to c. - 5'-0 9/16" Long

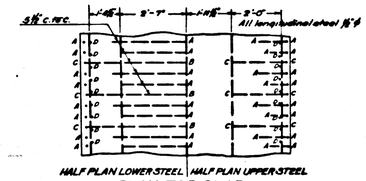


Bar "D" 1/2" ϕ - 6" c. to c. - 9'-0 9/16" Long



Bar "E" 5/8" ϕ - 6" c. to c. - 14'-5 1/8" Long
Alternate long and short ends

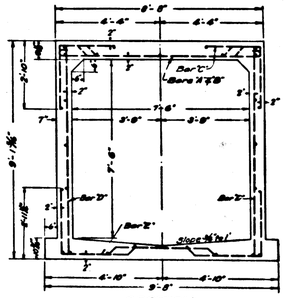
Longitudinal steel 27 bars 1/2" ϕ



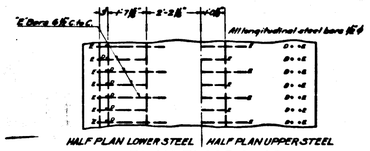
All longitudinal steel bars 1/2" ϕ

HALF PLAN LOWER STEEL | HALF PLAN UPPER STEEL

PLAN TOP SLAB



SECTION



All longitudinal steel bars 1/2" ϕ

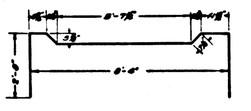
HALF PLAN LOWER STEEL | HALF PLAN UPPER STEEL

PLAN FLOOR SLAB

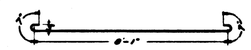
Section "C" from Station 39+80 to Station 57+95.33 of Olive Ave. Trunk. See Sheet #2
Total Length 1815.33 Feet.
Class "A" Concrete 0.8488 Cubic Yards per Foot.
Reinforcing Steel 101.6684 Pounds per Foot (on tangent)
Top Slab: Cover: 3.0 to 5.5 Ft. Total Load 1109 Pounds per Square Foot.
Dimensions to Reinforcing Steel Refer to Center Lines.

REINFORCED CONCRETE BOX 7'-6" x 7'-6"
SECTION "C"

FROM STATION 39+80 TO STATION 57+95.33 OLIVE AVE. TRUNK
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A1"
SCALE 1/2"=1'

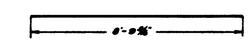


Bar "A" 5/8" ϕ Alternately 5 1/8" & 1'-2" t.o.c. - 14'-0 1/8" Long
Alternate long and short ends.

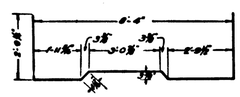


Bar "B" 5/8" ϕ - 16 1/8" c. to c. - 9'-5" Long

Bar "C" 1/2" ϕ 16 1/8" c. to c. - 4'-11 1/8" Long

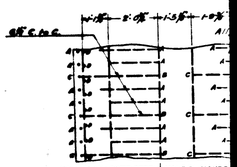


Bar "D" 1/2" ϕ 6 1/8" c. to c. - 8'-9 9/16" Long.



Bar "E" 5/8" ϕ 6 1/8" c. to c. - 14'-1 9/16" Long
Alternate long and short ends.

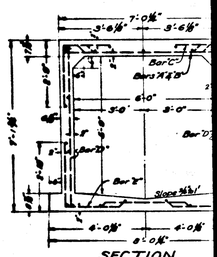
Longitudinal steel 27 bars 1/2" ϕ



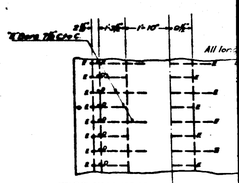
All longitudinal steel bars 1/2" ϕ

HALF PLAN LOWER STEEL | HALF PLAN UPPER STEEL

PLAN TOP SLAB



SECTION



All longitudinal steel bars 1/2" ϕ

HALF PLAN LOWER STEEL | HALF PLAN UPPER STEEL

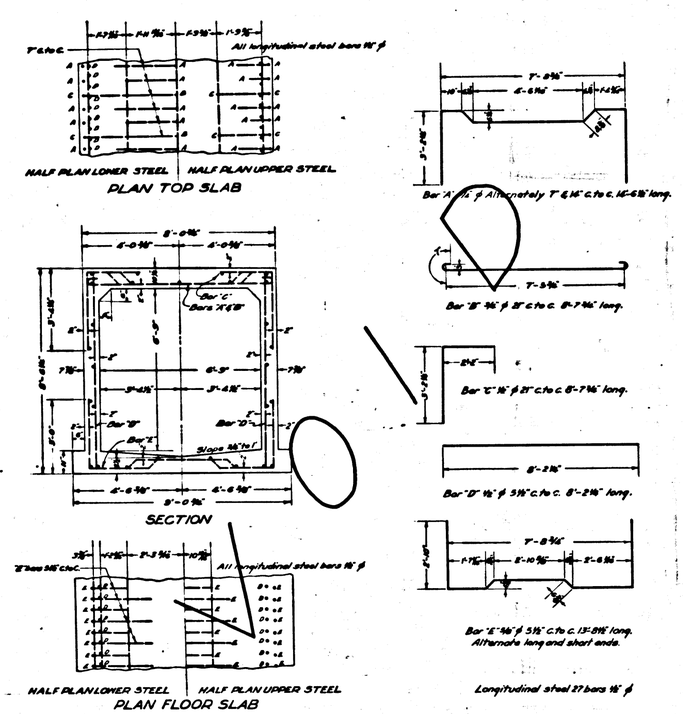
PLAN FLOOR SLAB

Section "B" from Station 58+
Total Length 885 Feet.
Class "A" Concrete 0.5962 Cu
Reinforcing Steel 77.1711
Top Slab: Cover: 5.5 To 7.5
Dimensions to Reinforcing

REINFOR

FROM STATION 5

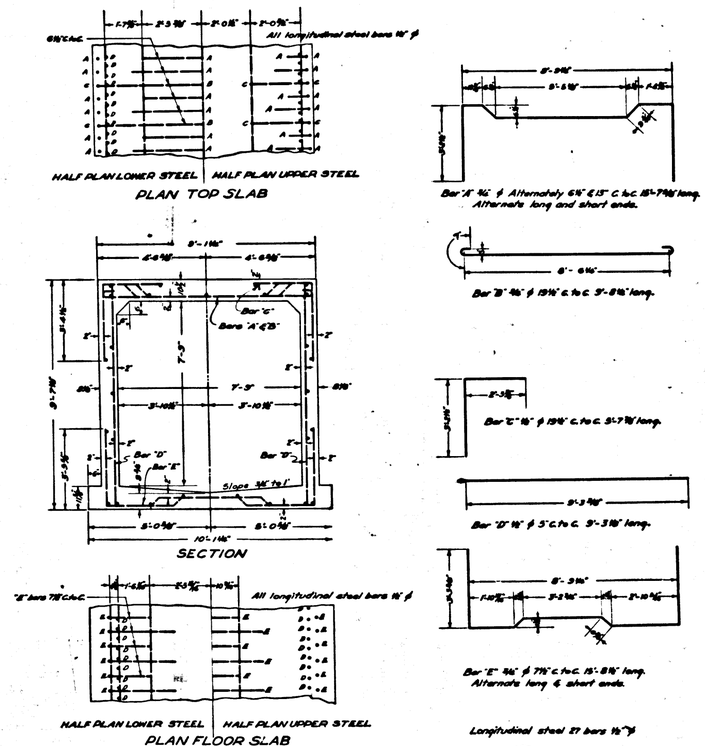
CS B-1163-4
A2 OF A3



Section "G" from Station 13+60 to Station 16+05 of Olive Ave. Trunk. See Sheet #2
Total Length 245 feet.
Class "A" Concrete: 0.8741 Cubic Yards per Foot.
Reinforcing Steel: 111.2896 Pounds per Foot (on tangent)
Top Slab: Cover 11 to 14 Ft., Total Load 1817 Pounds per Square Foot.
Dimensions to Reinforcing Steel Refer to Center Lines.

REINFORCED CONCRETE BOX 6'-9" x 6'-9"
SECTION "G"

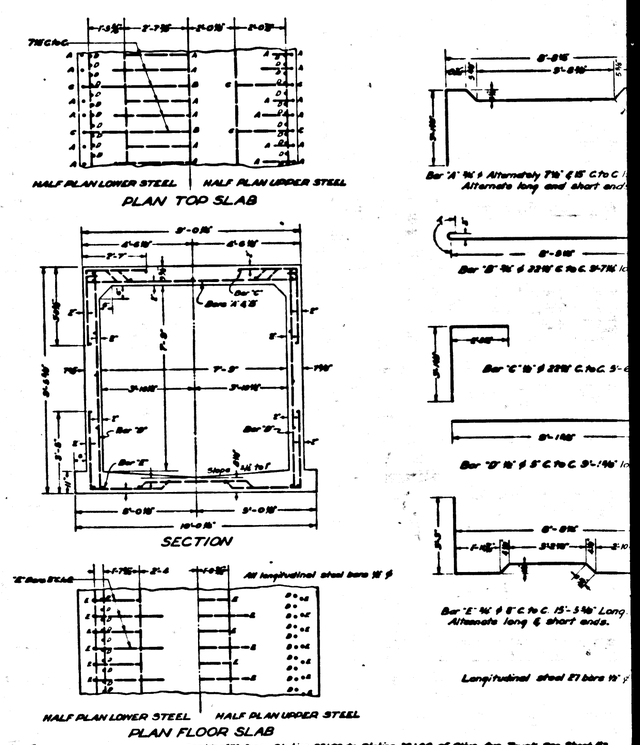
FROM STATION 13+60 TO STATION 16+05 OLIVE AVE. TRUNK
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A-1"
SCALE 1/2"=1'



Section "F" from Station 16+15 to Station 25+00 of Olive Ave. Trunk. See Sheet #2
Total Length 885 feet.
Class "A" Concrete: 1.0212 Cubic Yards per Foot.
Reinforcing Steel: 129.8342 Pounds per Foot (on tangent)
Top Slab: Cover 7.5 to 10.5 Ft., Total Load 1470 Pounds per Square Foot.
Dimensions to Reinforcing Steel Refer to Center Lines.

REINFORCED CONCRETE BOX 7'-9" x 7'-9"
SECTION "F"

FROM STATION 13+24.12 TO STATION 25+00 OLIVE AVE. TRUNK.
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A-1"
SCALE: 1/2"=1'



Section "E" from Station 25+00 to Station 30+00 of Olive Ave. Trunk. See Sheet #2
Total Length 500 feet.
Class "A" Concrete 0.9479 Cubic Yards per Foot.
Reinforcing Steel: 120.1539 Pounds per Foot (on tangent)
Top Slab: Cover 5.5 to 7.5 Ft., Total Load 1181 Pounds per Square Foot.
Dimensions to Reinforcing Steel Refer to Center Lines.

REINFORCED CONCRETE BOX 7'-9" x 7'-9"
SECTION "E"

FROM STATION 25+00 TO STATION 30+00 OLIVE AVE. TRUN
WEST ALTADENA STORM DRAIN
ALL CONCRETE TO BE CLASS "A-1"
SCALE 1/2"=1'

CS B-1163-4
A3 OF A3