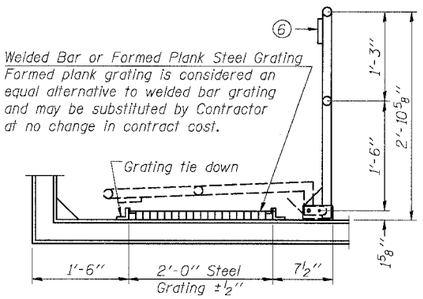
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	565	280
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

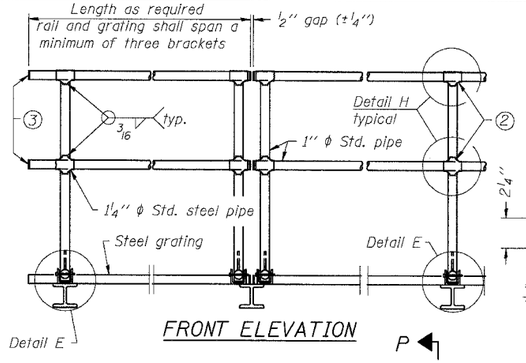
SHEET NO. - - SHEETS

* 62301 (2021-922 PT2 ETC 2324.6-1P) R-10

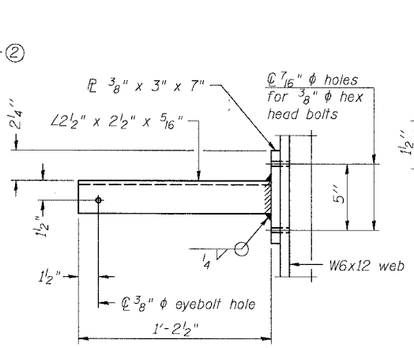
Welded Bar or Formed Plank Steel Grating
Formed plank grating is considered an equal alternative to welded bar grating and may be substituted by Contractor at no change in contract cost.



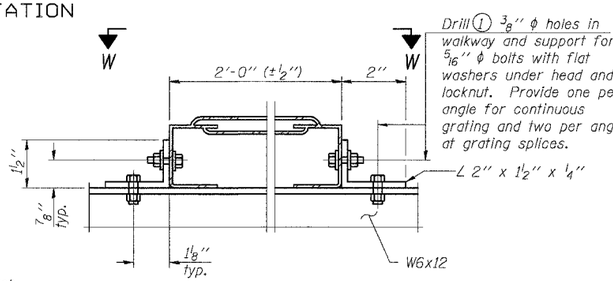
SIDE ELEVATION



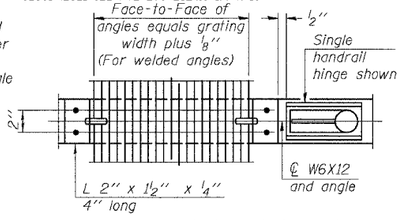
FRONT ELEVATION



SECTION P-P



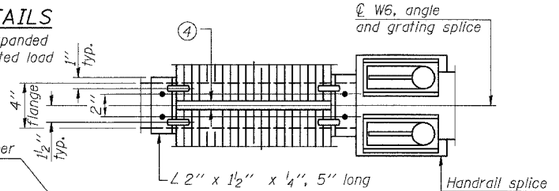
Drill ① 3/8" ϕ holes in walkway and support for 5/16" ϕ bolts with flat washers under head and locknut. Provide one per angle for continuous grating and two per angle at grating splices.



(WALKWAY GRATING CONTINUOUS)

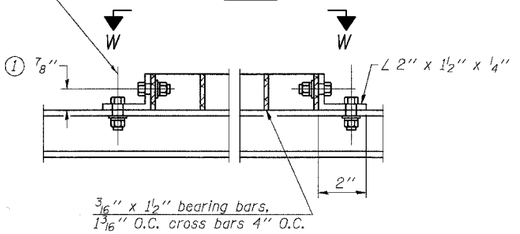
ALTERNATE FORMED PLANK GRATING DETAILS

Plank Grating: nominal depth = 2½" (±½"); perforated or expanded steel sheet with a non-skid surface (non-serrated) concentrated load capacity = 500 lbs. with 6'-0" clear span.



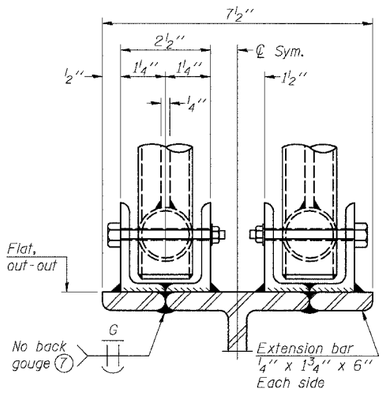
(AT WALKWAY GRATING SPLICE)

PLAN



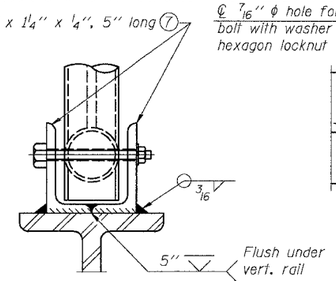
WELDED BAR GRATING DETAILS

DETAIL D HANDRAIL



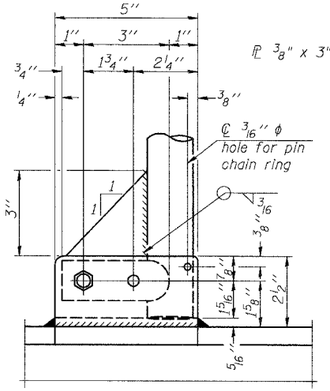
ELEVATION AT HANDRAIL JOINT

(Details not shown same as "FRONT ELEVATION")

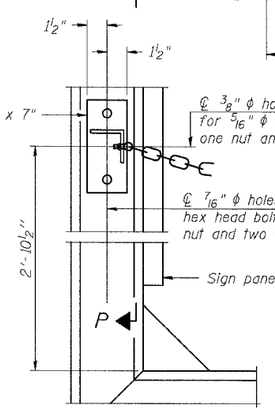


FRONT ELEVATION

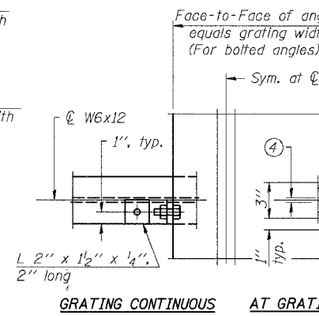
(See above Elevations for dimensions.)



SIDE ELEVATION



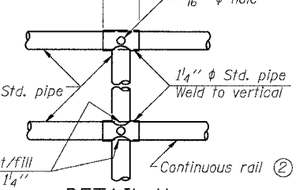
SAFETY CHAIN ATTACHMENT



GRATING CONTINUOUS AT GRATING SPLICE

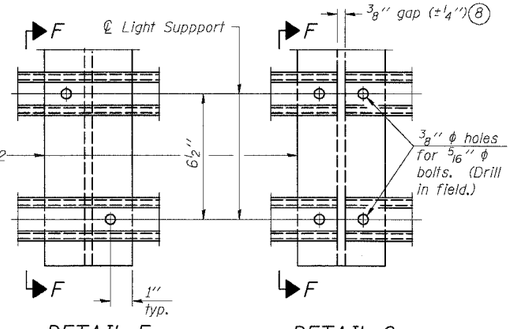
℄ 3/8" ϕ holes for 5/16" ϕ bolts with one washer and locknut per bolt, typ. Provide one per angle at continuous grating or two per angle at grating splices.

VIEW W-W



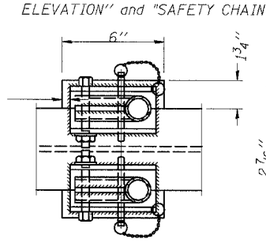
DETAIL H

Welds 3/16" continuous



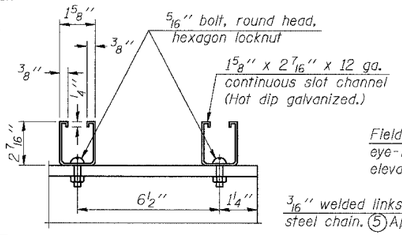
DETAIL F DETAIL G

(With Sign Present)
Items not shown same as "SIDE ELEVATION" and "SAFETY CHAIN"



PLAN AT HANDRAIL JOINT

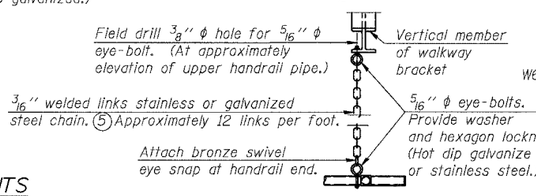
(For Details, see Elevations.)



SECTION F-F

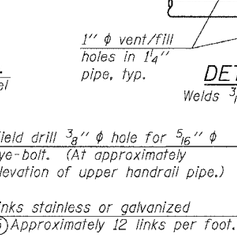
LIGHTING FIXTURE MOUNTS

(If required)



SAFETY CHAIN

One (1) required for each end of each walkway.



PLAN AT SINGLE HANDRAIL HINGE

DETAIL E

NOTES

① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment. Field drilled holes must be touched up with galvanized paint.

② Horizontal rail member shall be continuous thru 1¼" * pipe. Provide 7/16" * hole in fitting for 3/8" * bolt. Field drill 7/16" * hole in horizontal rail member. Provide washer and locknut for bolt. *Use 5/16" eyebolts in 7/16" * holes on top rail at ends only.*

③ Install standard force-fit end caps or weld ⅛" end plates with ⅛" c.f.w. and grind smooth. *All rail ends.*

④ 3/8" **¼"* gap between grating panels at splice.

⑤ Chain to be hot dip galvanized after manufacture or stainless steel suitable for prolonged exterior exposure. Approximately 3'-6" long chain per location. Maximum sag with handrail erected = 4".

⑥ * ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

⑦ Extrusions may be used in lieu of details shown, with approval by Engineer.

⑧ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

NUMBER	REVISION	DATE

DESIGNED	MSA
CHECKED	AS/AC
DRAWN	RV
CHECKED	MSA

- 20

EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

BM-4 Special 1/7/05

SGN-38

BRIDGE MOUNT SIGN STRUCTURES
WALKWAY DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (NB LOCAL LANES)
OVERHEAD SIGN STRUCTURES
(BRIDGE MOUNTED)

ra\650\cadd\civil\dgn\sheets\sds82000dms.sht