SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: EL. 274, ZONE J-4, RAMP J REINFORCEMENT | DATE: 5-8-73

REVISIONS

Cut 3'-0" ± ϕ hole in Ramp "J" slab with sloped sides as shown. Do not damage exist. reinf.. After new beam is anchored and grouted in place, coat entire surface of hole with epoxy bonding compound and recast using f'c = 5000 psi "non-shrink" concrete

Exist. Ramp "J" slab

4

Exist. curb

Exist. reinf.

Ramp "J" slab soffit

Dry-pack with "Embeco" grout.

Exist. reinf. - cut as needed.

New 12WF

8" wall

El. 274-0"

New 12WF beam

X

2"

New conc. does not touch new beam (1" min. clear)

19-K-1076.3 ▼A

A

El. 274-0

Cinch anchor } See 19-K-1076A

½" "Embeco" grout

Shores

Shores

Sprayed on fireproofing full length of new 12WF

4

Cut hole in 8" wall with sloped sides as shown. After new beam, etc. (See note Sect. J-J)

Section x-x

Exist. 21WF

Dry-pack with "Embeco" grout.

2"

5/16 4-12 3'-0" plus full return each end.

New cover PL 7"x½"x 22'-0", centered on length of existing 21WF.

Exist. #3 @ 6 stirrups - bend back after welding cover PL.

Section J-J

Construction Sequence:

1. Place shores, full length of exist. 21WF.
2. Cut fireproofing off bottom face of exist. 21WF as shown. Do not damage exist. reinf.
3. Cut exist. #3 @ 6 stirrups as shown (1 cut ea. bar) & bend only enough to install & weld new cover PL, Clean exposed bottom flange of exist. 21WF
4. Install & weld new cover PL, bend stirrups back as shown, dry-pack beam soffit.
5. Complete all other work shown on 19-K-1074 drawings.
6. Remove shores.

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REVIEWED

19-J-1076.2