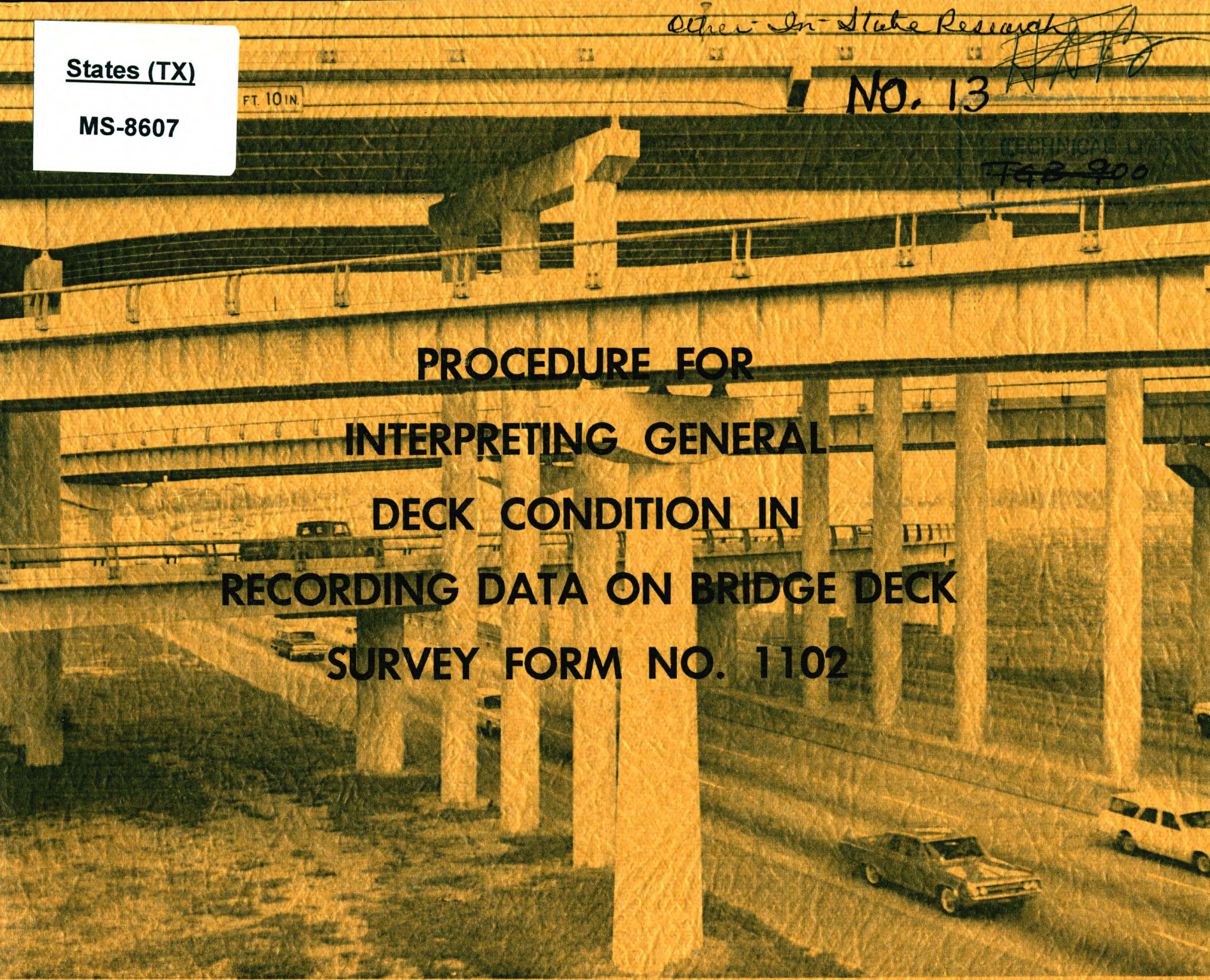

PROCEDURE FOR INTERPRETING GENERAL DECK CONDITION IN RECORDING DATA ON BRIDGE DECK SURVEY FORM NO. 1102

THE STATE OF TEXAS

TEXAS HIGHWAY DEPARTMENT
Maintenance Operations Division
Austin, Texas 78701
August, 1965

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Introduction

General Deck Condition classifications as listed on the survey form are outlined herein and illustrated with example photographs. This illustrated outline is presented as an aid, to the individual or team assigned to survey bridge decks, in correctly classifying the decks surveyed to provide uniform data so important to accurate and dependable analysis.

The wide range of possible deck conditions are separated into twelve major classifications. This large number of classifications was chosen to facilitate accurate interpretation of deck condition and to reduce borderline decisions as much as possible.

There is a definite range within each classification as will be noted in the photograph section. Only a limited number of photographs were available for selection. The best of these were chosen; however, there may be some deck conditions which will not be adequately covered by these photographs. In this case, the photographs may be used as a relative guide.

In all instances, the written classifications govern. The photographs are provided to support the classifications and to assist in classification interpretation.

Of the several types of deterioration, only delamination cannot be determined by visual means. It is possible for a deck to appear perfectly sound, with little or no surface deterioration, and yet be delaminated or separated in a layer beneath the surface. The best current means of detecting delamination is by tapping or dragging a light metal object, such as a small hammer, on the deck surface. A marked difference or variation in the resulting sound denotes separated areas. High frequency, platy sounds indicate very thin separations.

Since various types and degrees of deterioration may appear on a single structure, the survey form is designed for entry of the numerical classification data by pours.

Any unusual condition which cannot be adequately covered or described by numerical classification should be entered by note

in spaces provided on the survey form. An example of such an entry is when a pour may show several classifications of deterioration. When a single pour presents several classifications, record the most serious classification numerically and indicate in note form the various other conditions which exist.

Curb, walk and sidewall or parapet deterioration should be entered in note form. Existance, type and condition of overlays, patches and other repairs should also be noted.

Leaking cracks which pass water completely through the deck can usually be identified by a white or grey efflorescence or powder deposit along the edges of the crack on the underside of the deck.

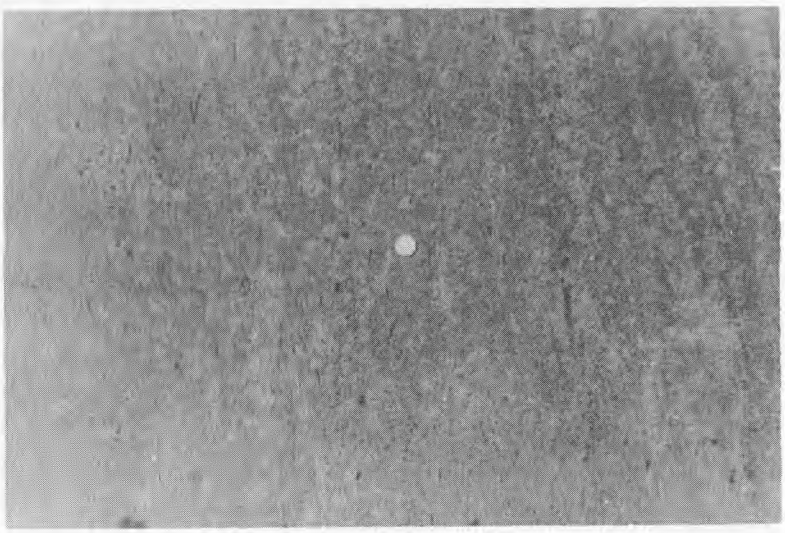
When tension cracking is discovered on the underside of a deck, the cracks should be carefully observed under automobile and truck traffic to determine if the cracks are working and to what degree. Working tension cracks should be recorded by note.

Damage caused by fire, accident, chemical spillage, storm, etc., should be noted.

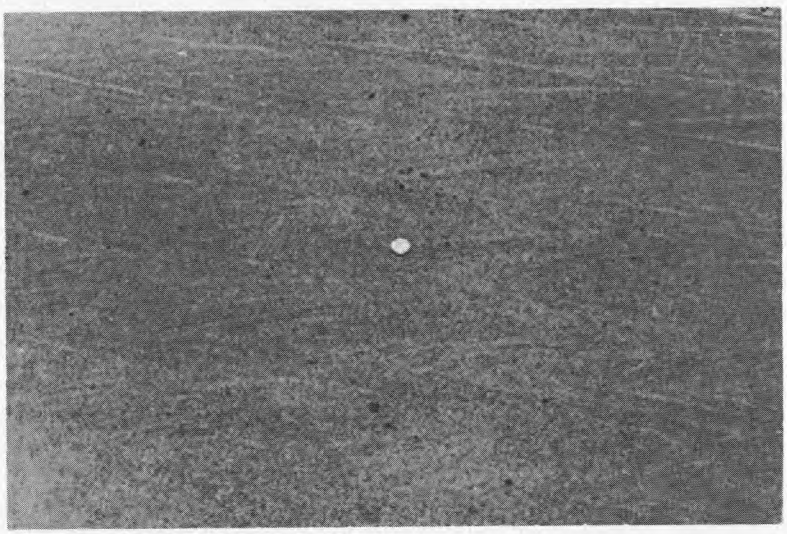
Deck cracking types are diagramatically illustrated in Figure 1. Record degree and type of cracking and approximate average of spacing between cracks. Record the greatest scaling depth encountered. Spalling should be recorded under scaling.

The survey form classifications for Degree of Cracking and Spalling are listed as 1. None, 2. Minor, 3. Moderate, 4. Extensive, 5. Severe and 6. Failure. The General Deck Condition pictures included herein should be used,within parallel classifications, to interpret the Degree of Cracking and Spalling classifications. Figure 2 shows this relationship.

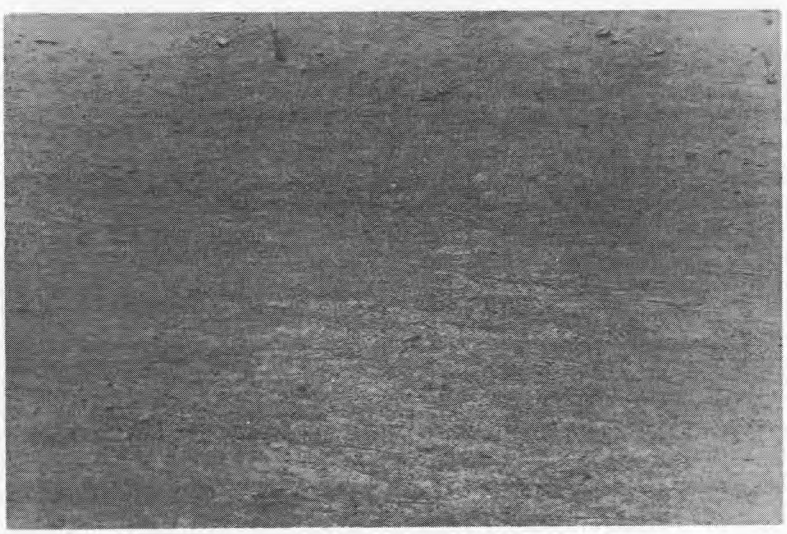
Figure 3 should be used as a guide in determining Degree of Delamination.



10 - A

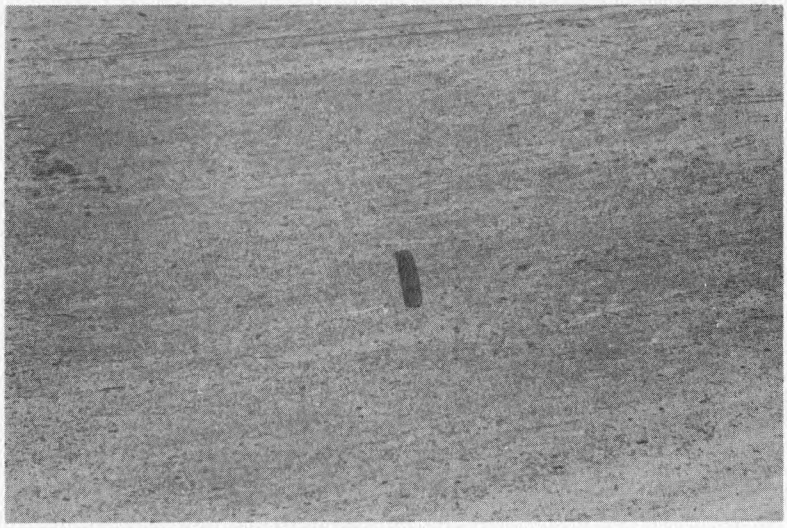


10 - B

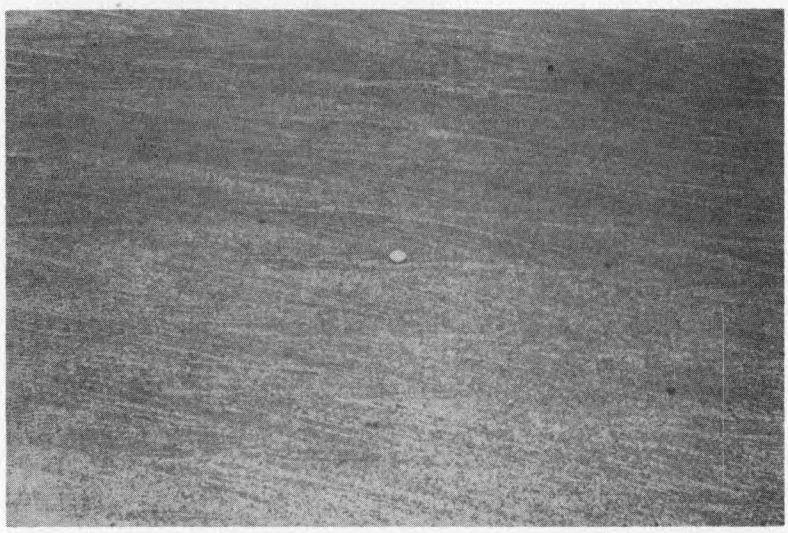


10 - C

10. GOOD: NO CRACKING, SPALLING, SCALING, DELAMINATION OR ROUGHNESS.

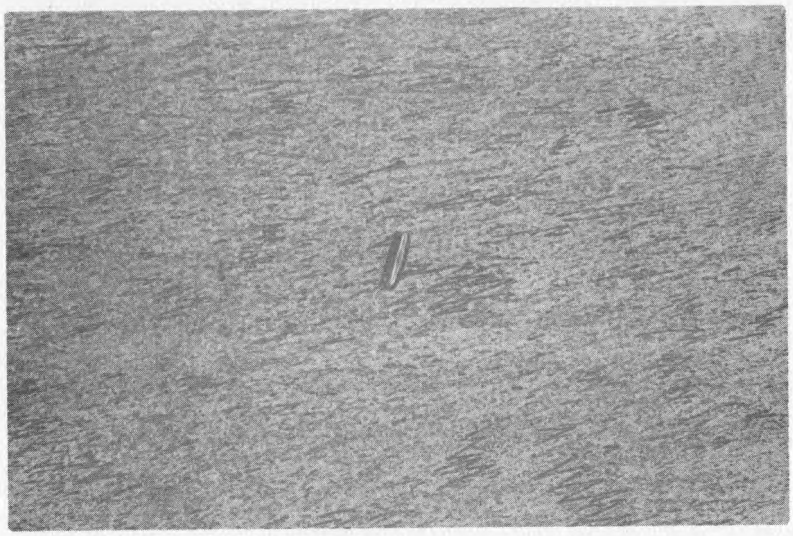


10 - D

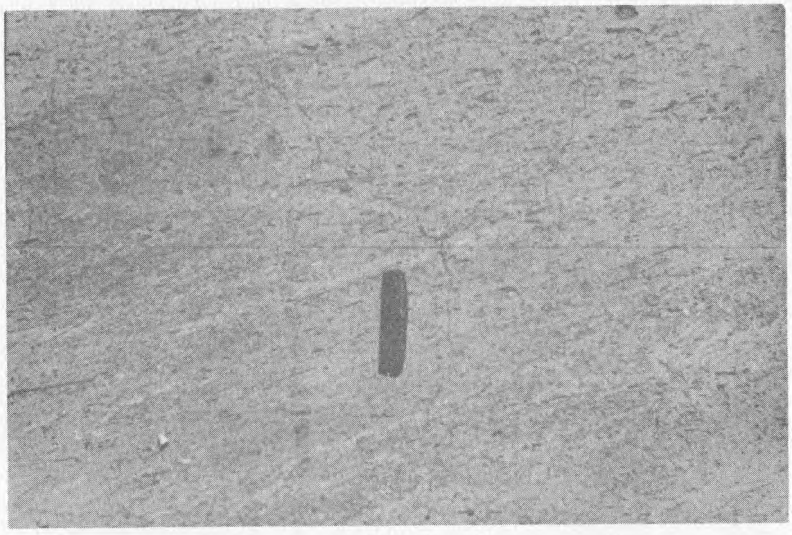


10 - E

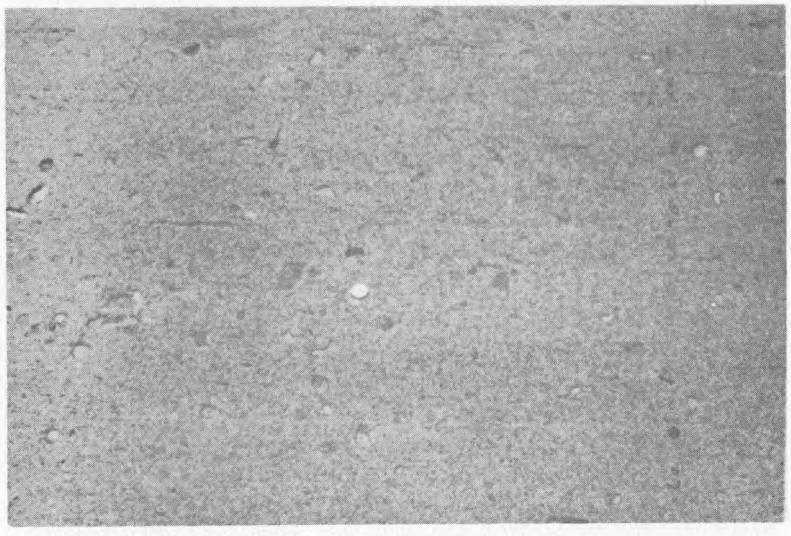
10. GOOD: NO CRACKING, SPALLING, SCALING, DELAMINATION OR ROUGHNESS.



20 - A

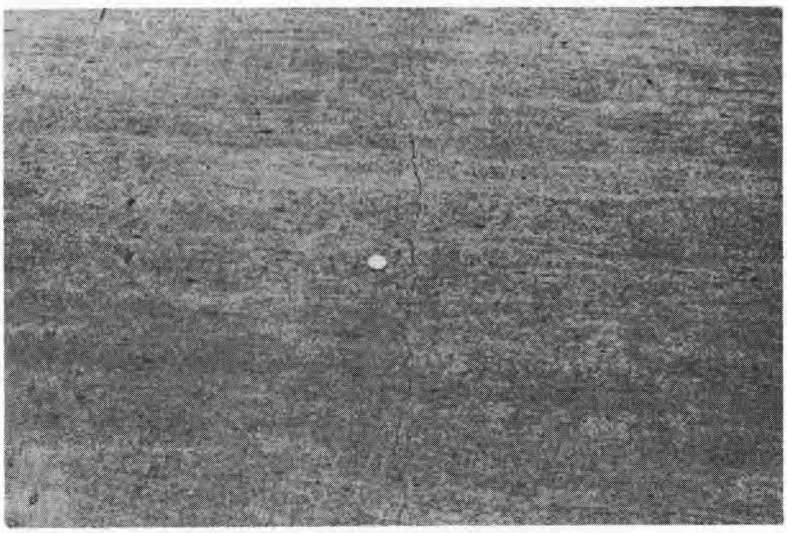


20 - B

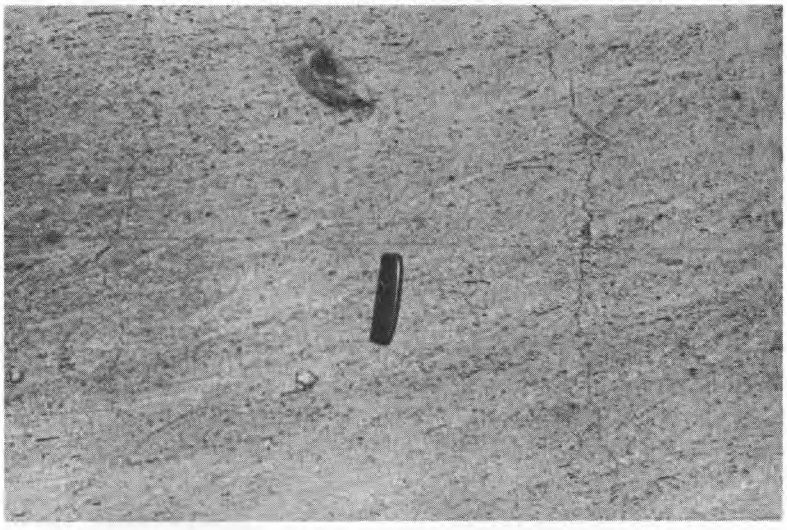


20 - C

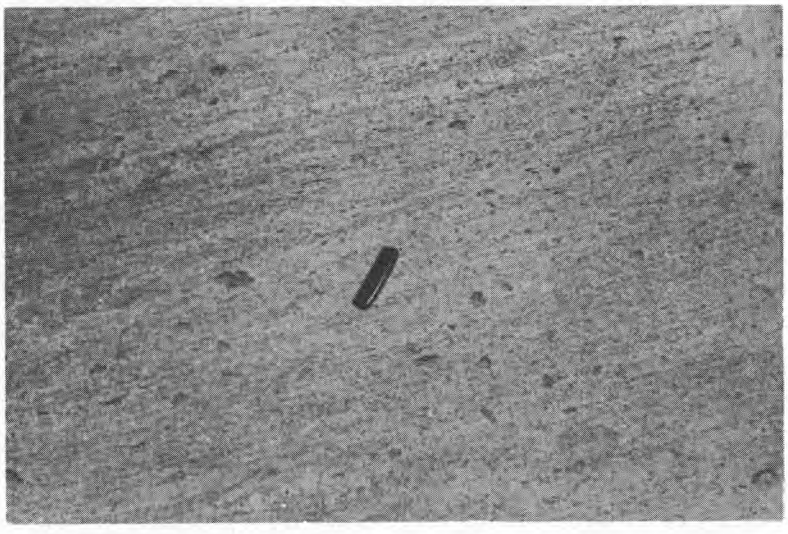
20. MINOR FINE CRACKING, SLIGHT ROUGHNESS OR VERY SLIGHT, SHALLOW AND INFREQUENT SPALLING OR SCALING. OR COMBINATION THEREOF. NO DELAMINATION.



20 - D

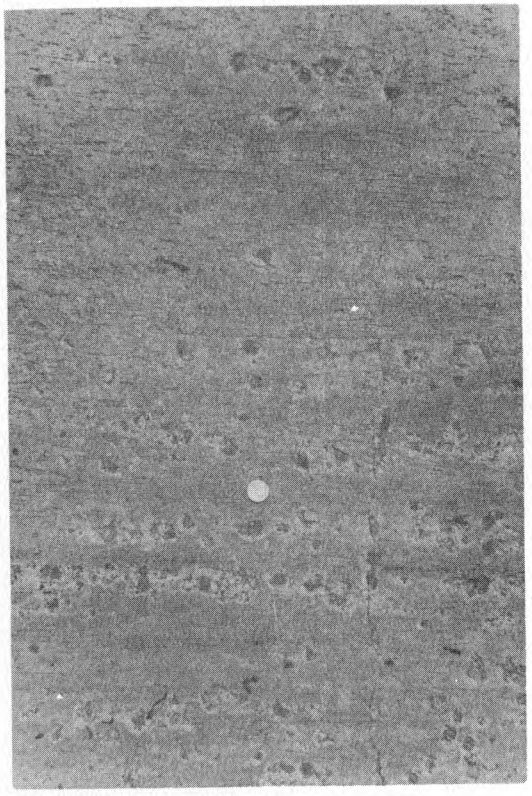


20 - E



20 - F

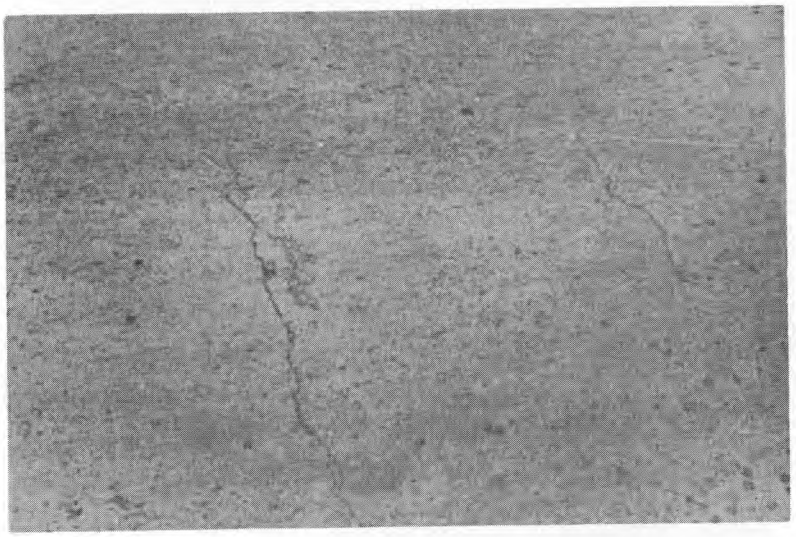
20. MINOR FINE CRACKING, SLIGHT ROUGHNESS OR VERY SLIGHT, SHALLOW AND INFREQUENT SPALLING OR SCALING. OR COMBINATION THEREOF. NO DELAMINATION.



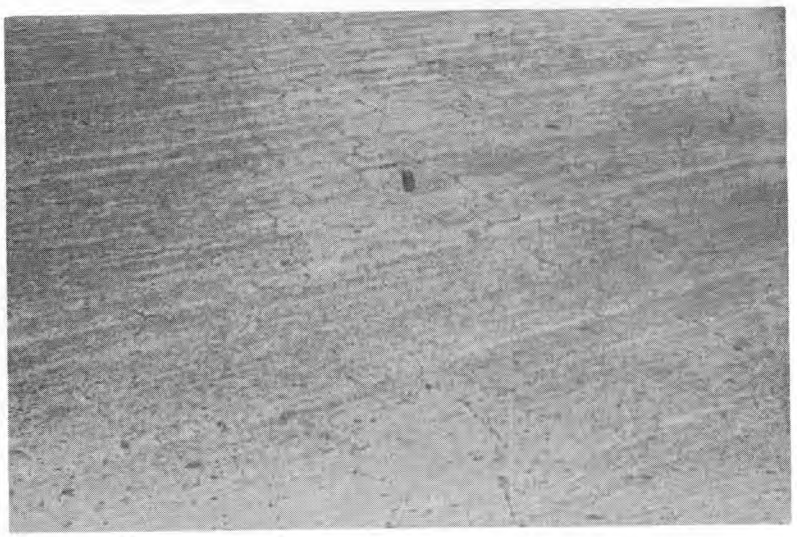
20 - G

20. MINOR FINE CRACKING, SLIGHT ROUGHNESS OR VERY SLIGHT, SHALLOW AND INFREQUENT SPALLING OR SCALING. OR COMBINATION THEREOF. NO DELAMINATION.

30 - A

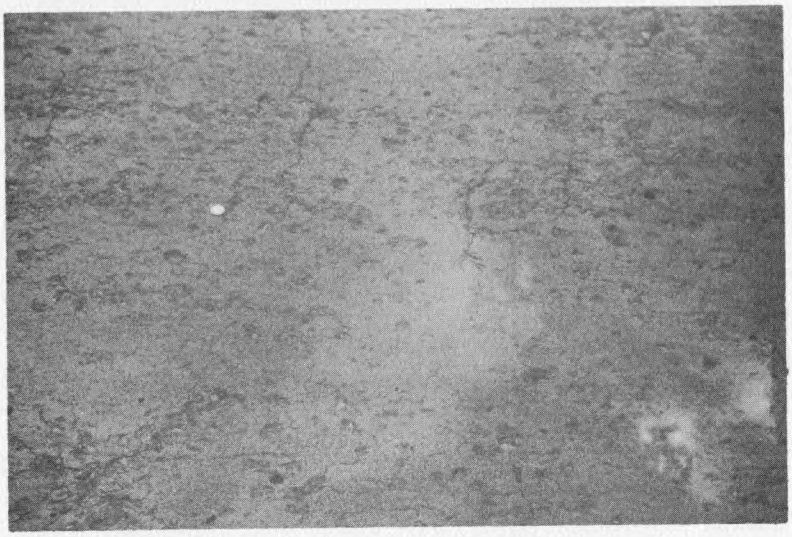


30 - B

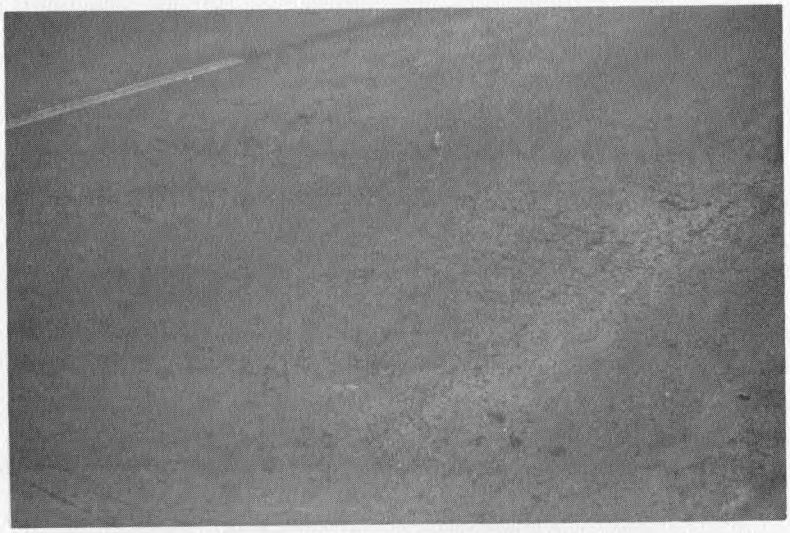


30 - C

30. MODERATE CRACKING, SPALLING OR SCALING. MINOR AND INFREQUENT DELAMINATION. MINOR SURFACE LOSS. OR COMBINATION THEREOF.



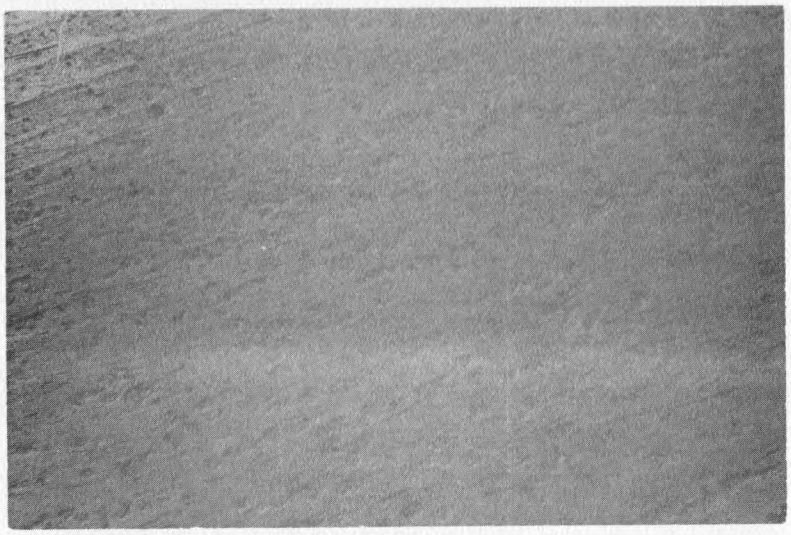
30 - D



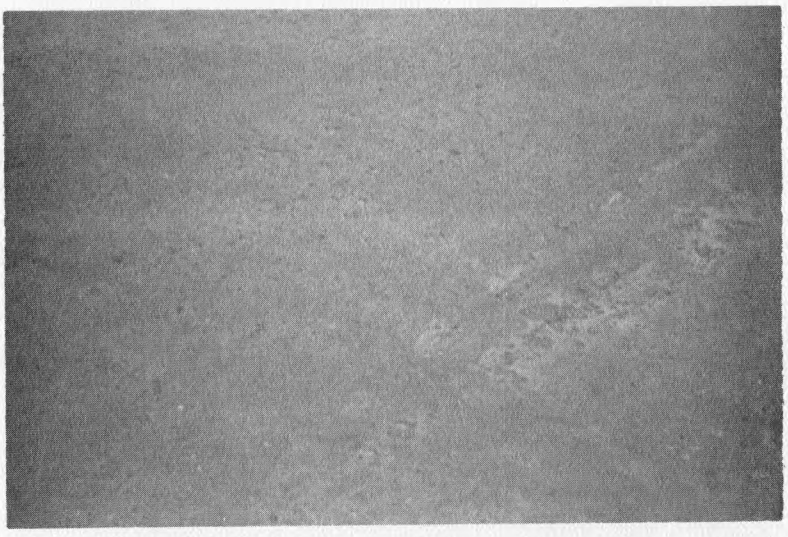
30 - E

30 - F

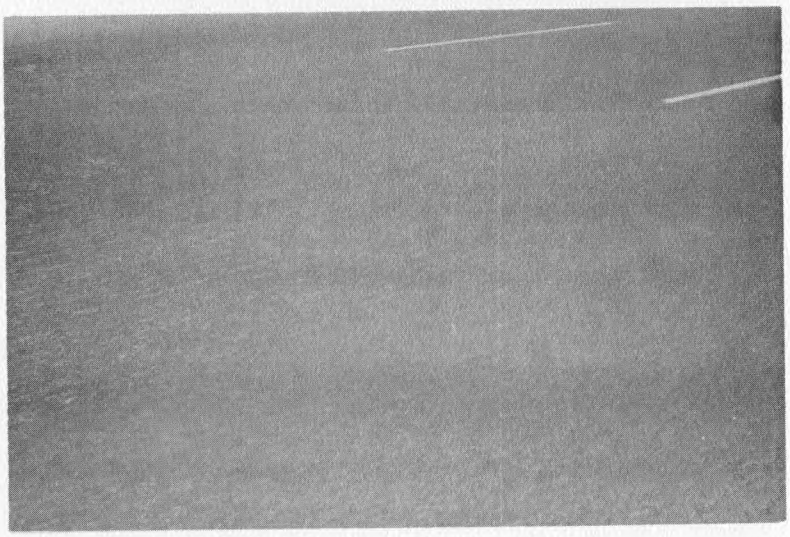
30. MODERATE CRACKING, SPALLING OR SCALING. MINOR AND INFREQUENT DELAMINATION. MINOR SURFACE LOSS. OR COMBINATION THEREOF.



30 - G

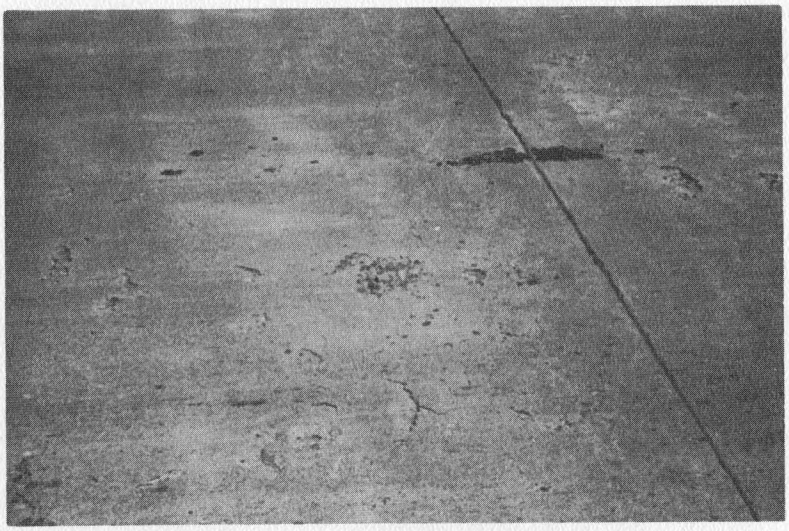


30 - H



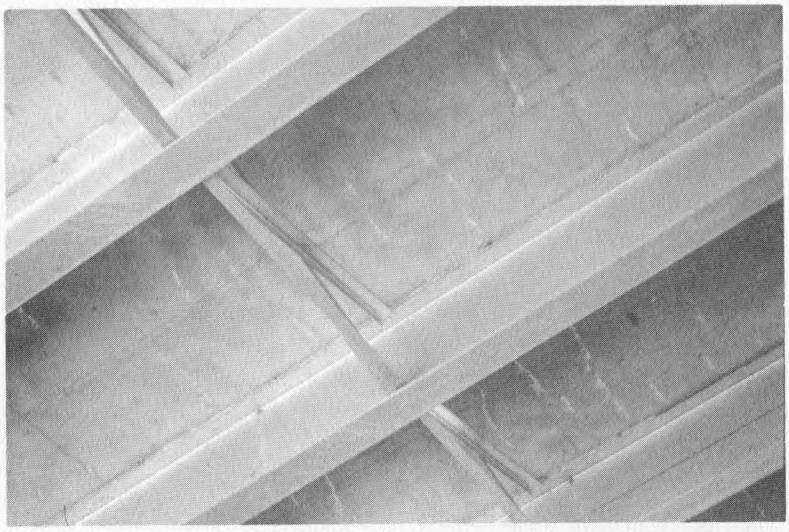
30 - I

30. MODERATE CRACKING, SPALLING OR SCALING. MINOR AND INFREQUENT DELAMINATION. MINOR SURFACE LOSS. OR COMBINATION THEREOF.

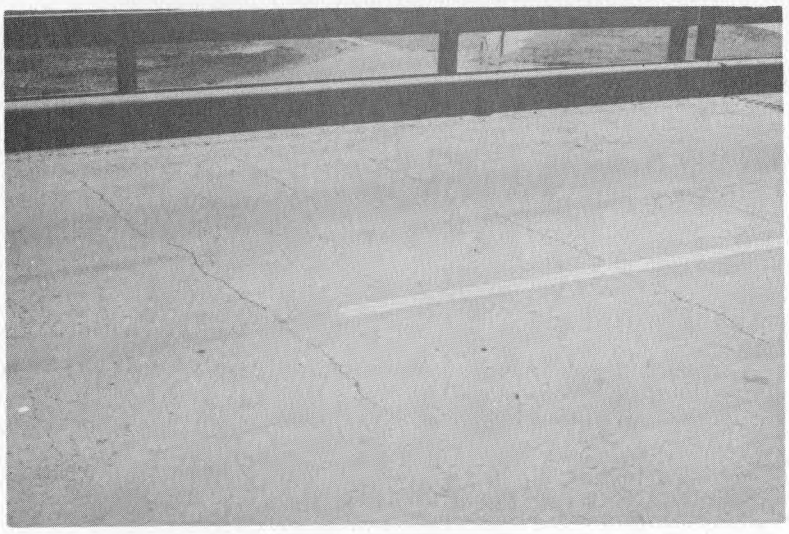


30 - J

30. MODERATE CRACKING, SPALLING OR SCALING. MINOR AND INFREQUENT DELAMINATION. MINOR SURFACE LOSS. OR COMBINATION THEREOF.



31 - A

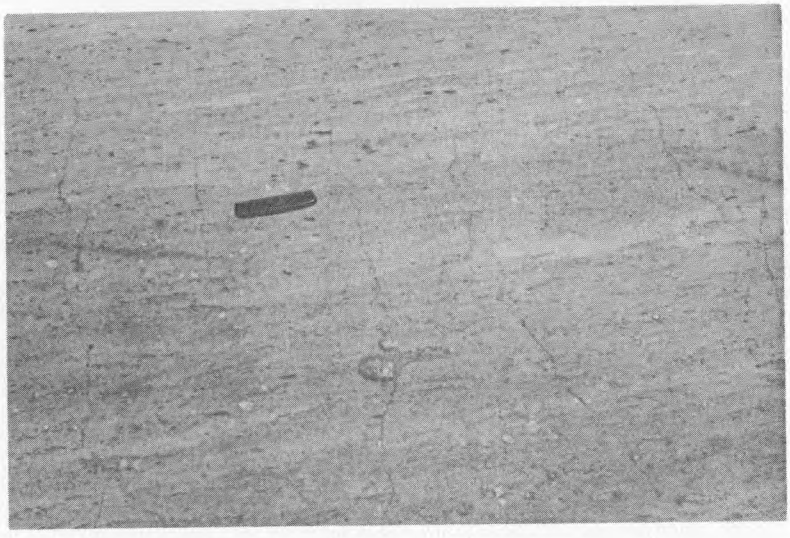


31 - B

31. TRANSVERSE CRACKS ON BOTTOM OF DECK SHOWING LEAKAGE.

32 - A

32 - B

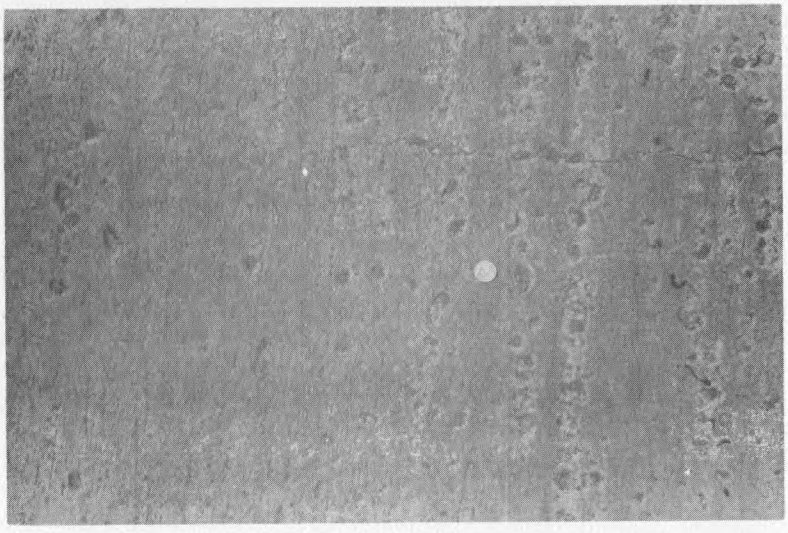


32 - C

32. LEAKING TRANSVERSE CRACKS COMBINED WITH 20.

32 - D

32 - E

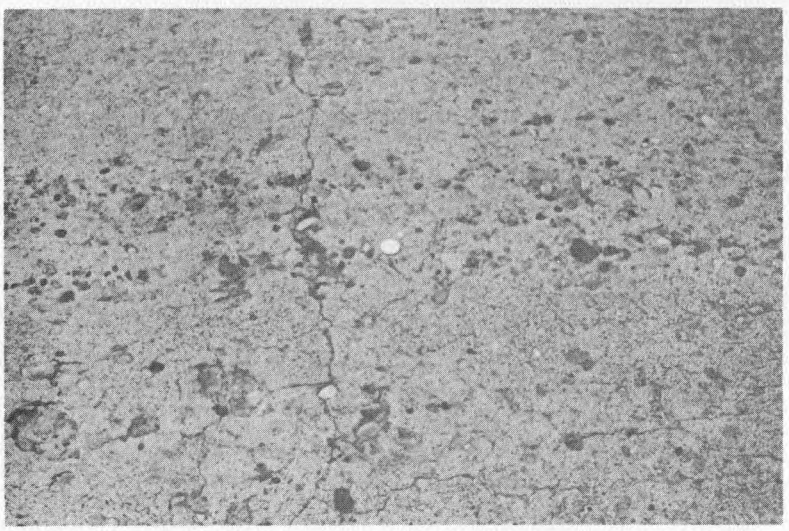


32 - F

32. LEAKING TRANSVERSE CRACKS COMBINED WITH 20.

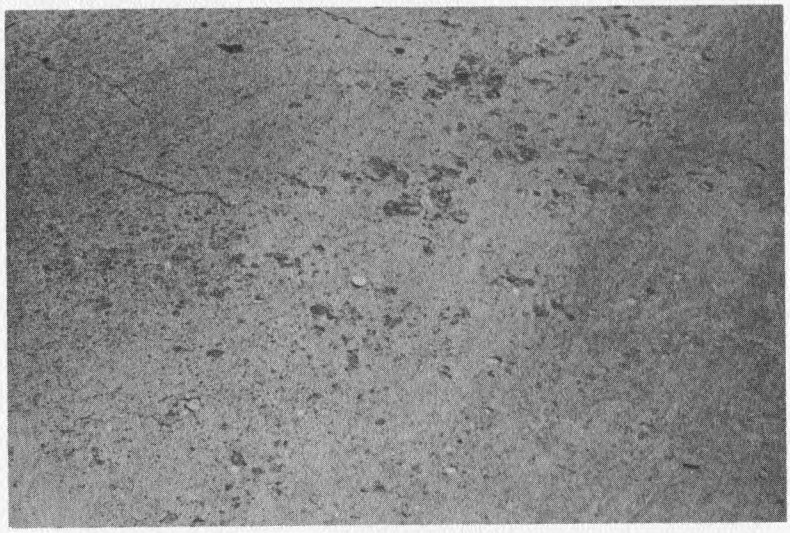
33 - A

33 - B

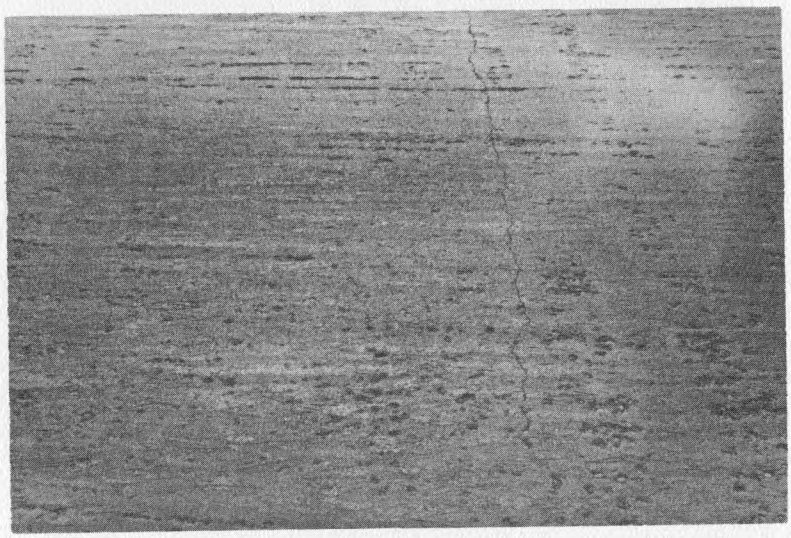


33 - C

33. LEAKING TRANSVERSE CRACKS COMBINED WITH 30.



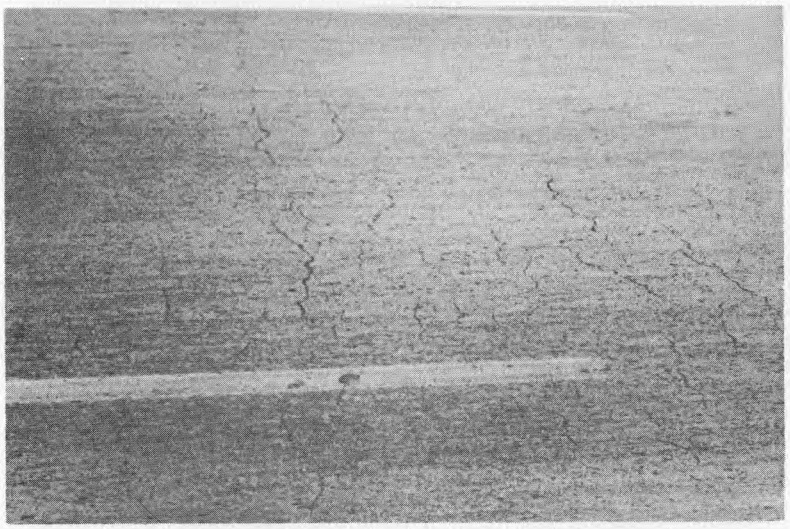
33 - D



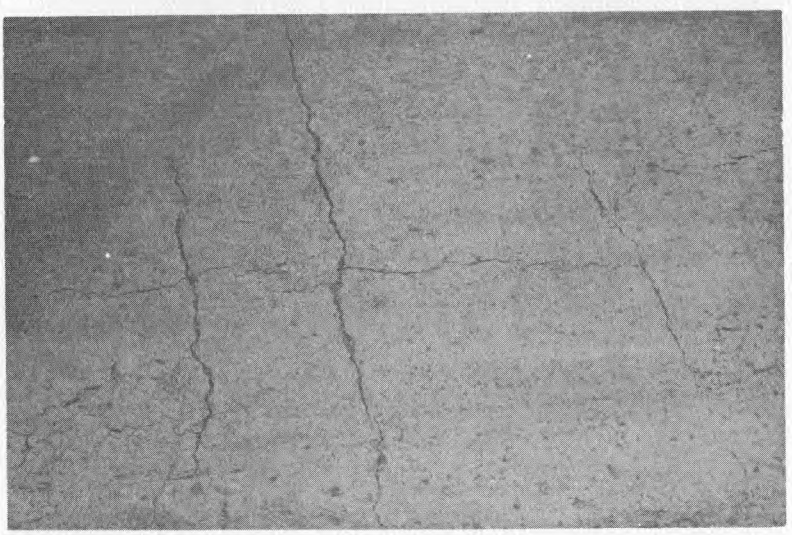
33 - E

33. LEAKING TRANSVERSE CRACKS COMBINED WITH 30.

40 - A



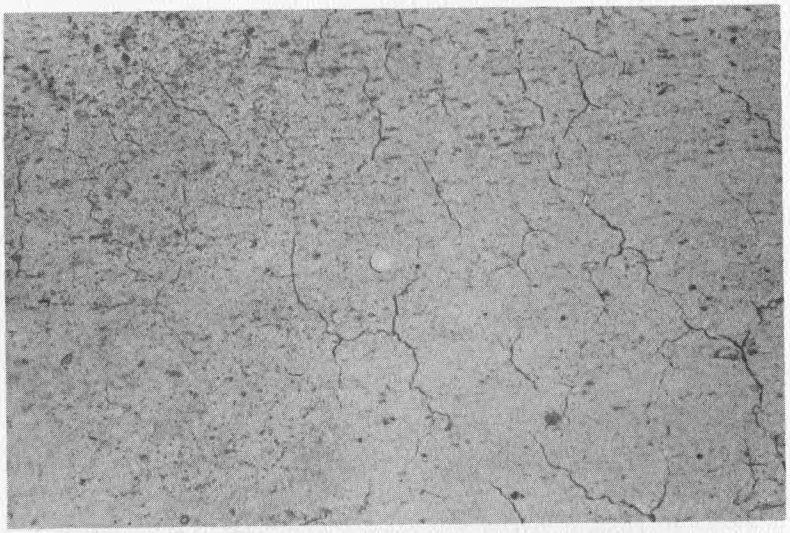
40 - B



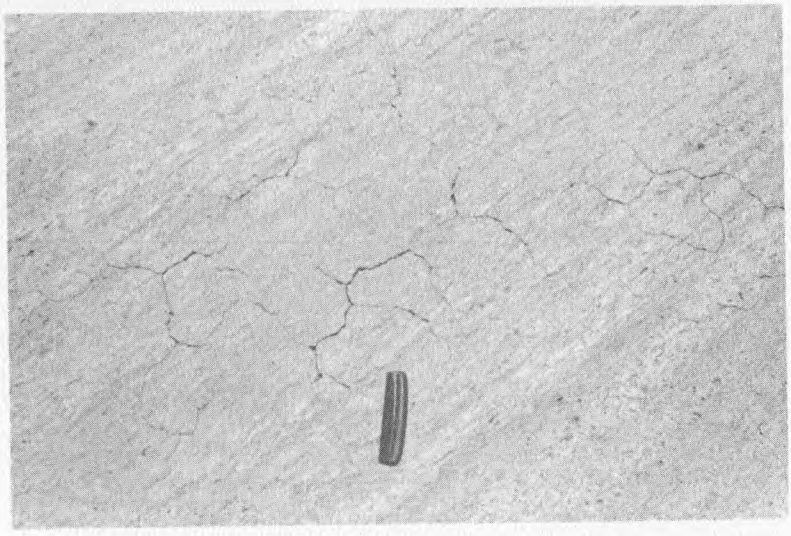
40 - C

40. EXTENSIVE CRACKING, SPALLING OR SCALING. MODERATE DELAMINATION AND SURFACE LOSS WITH OCCASIONAL POP-OUTS OR POT HOLES. LOOSE OR ROTTEN CONCRETE. OR COMBINATION THEREOF.

40 - D

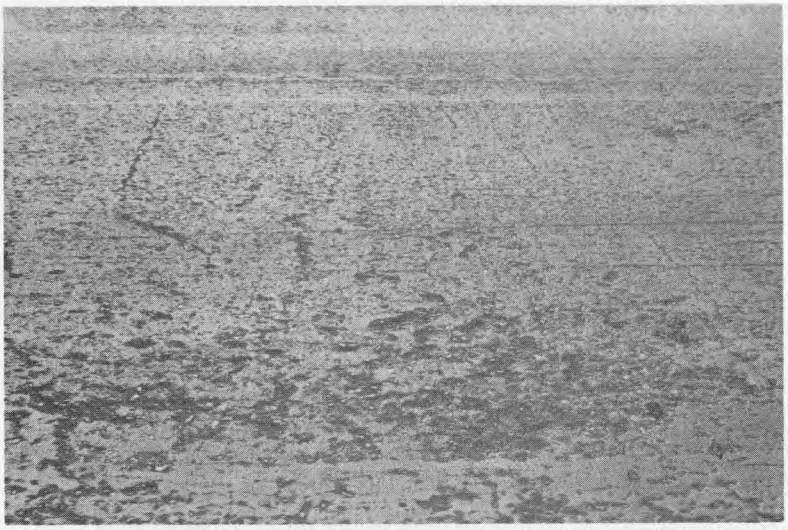


40 - E



40 - F

40. EXTENSIVE CRACKING, SPALLING OR SCALING. MODERATE DELAMINATION AND SURFACE LOSS WITH OCCASIONAL POP-OUTS OR POT HOLES. LOOSE OR ROTTEN CONCRETE. OR COMBINATION THEREOF.



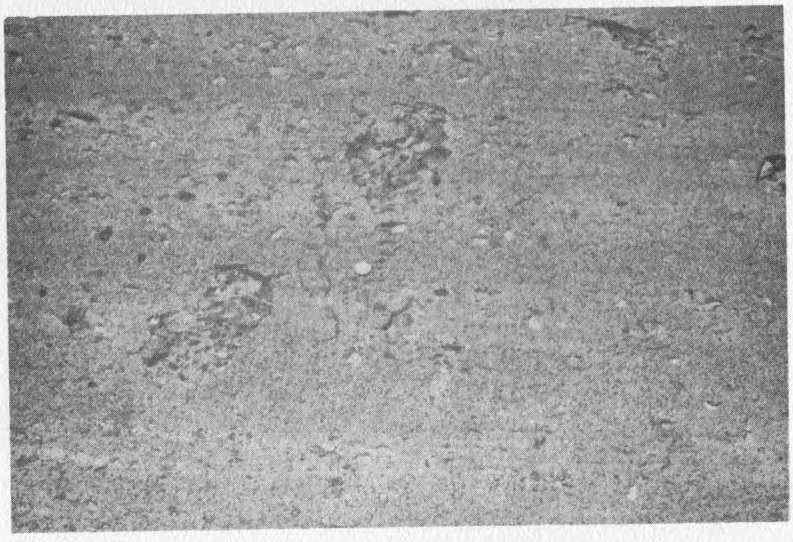
40 - G

40 - H

40 - I

40. EXTENSIVE CRACKING, SPALLING OR SCALING. MODERATE DELAMINATION AND SURFACE LOSS WITH OCCASIONAL POP-OUTS OR POT HOLES. LOOSE OR ROTTEN CONCRETE. OR COMBINATION THEREOF.

40 - J

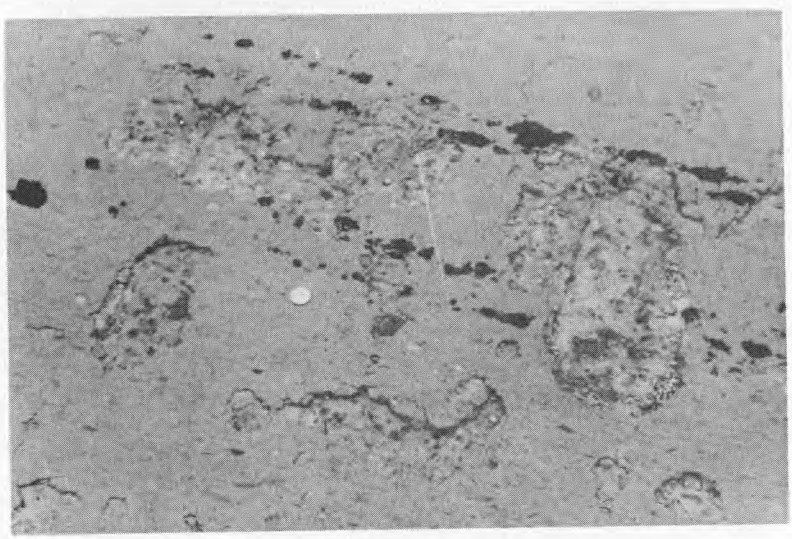


40 - K

40. EXTENSIVE CRACKING, SPALLING OR SCALING. MODERATE DELAMINATION AND SURFACE LOSS WITH OCCASIONAL POP-OUTS OR POT HOLES. LOOSE OR ROTTEN CONCRETE. OR COMBINATION THEREOF.

44 - A

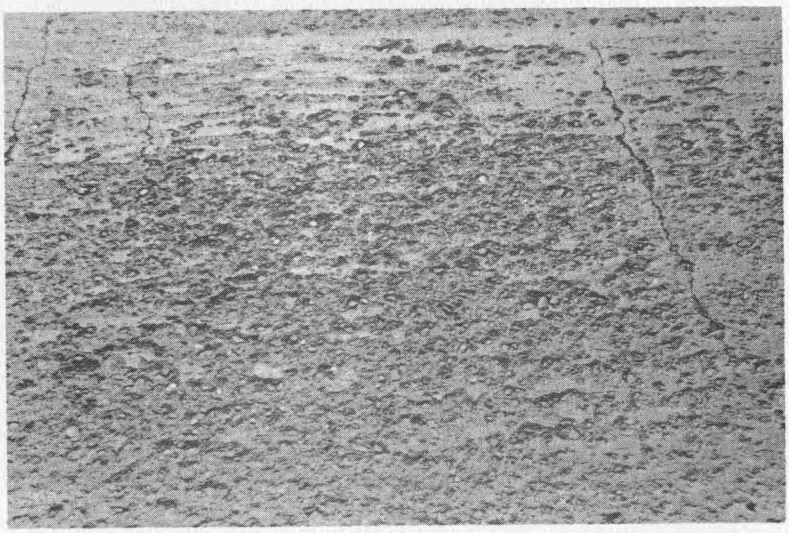
44 - B



44 - C

44. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 40.

44 - D



44 - E

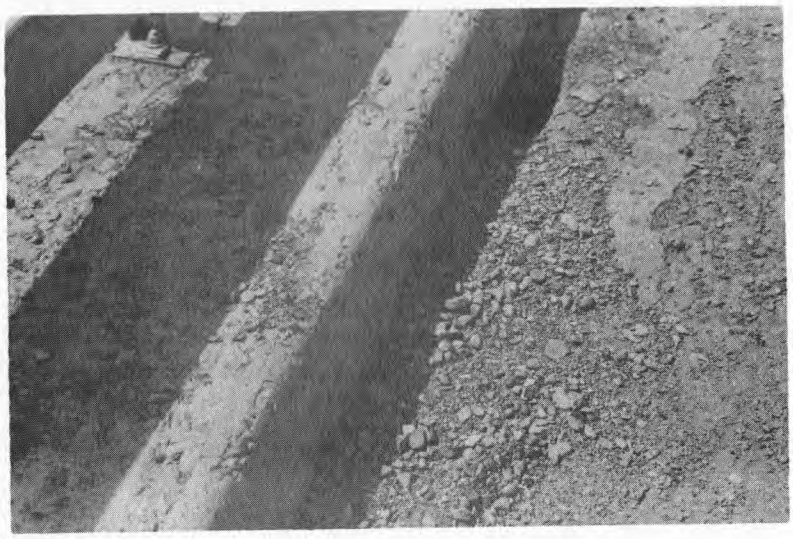
44. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 40.

50 - A

50 - B

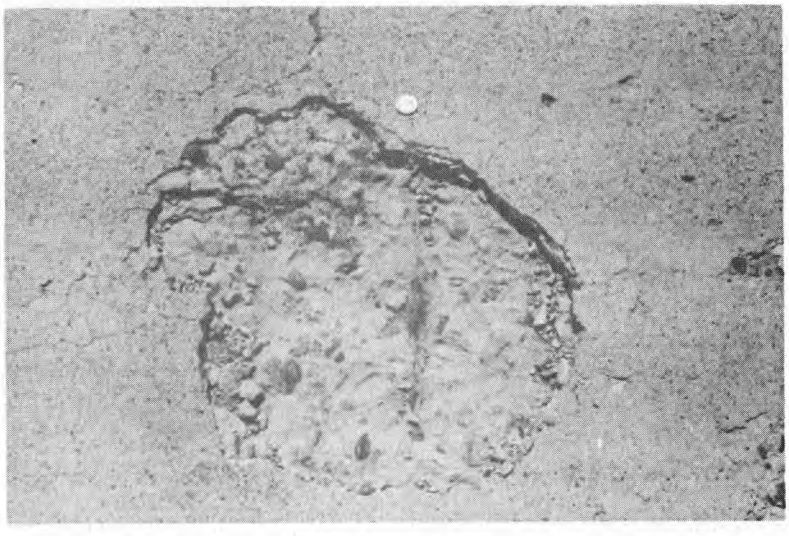
50 - C

50. SEVERE CRACKING, SPALLING OR SCALING. EXTENSIVE DELAMINATION. EXTENSIVE SURFACE LOSS WITH RUSTY STEEL SHOWING. EXTENSIVE LOOSE OR ROTTEN CONCRETE. EARLY OR BEGINNING TENSION CRACKS ON BOTTOM OF DECK. OR COMBINATION THEREOF.



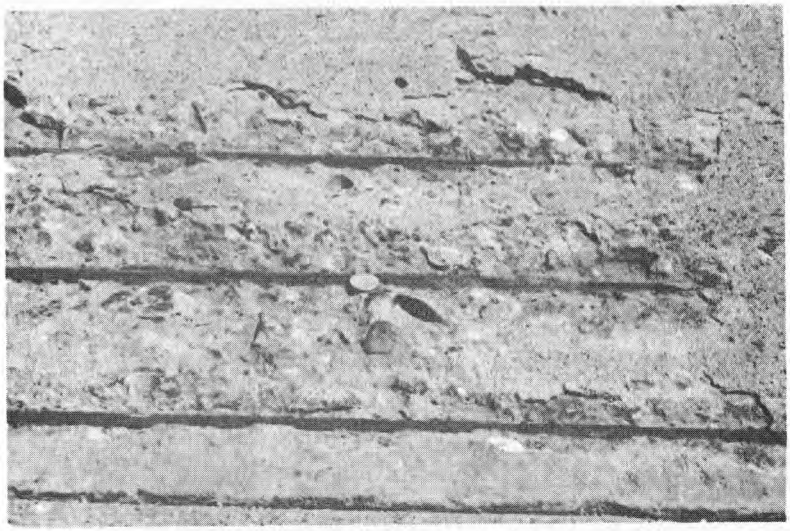
50 - D

50 - E



50 - F

50. SEVERE CRACKING, SPALLING OR SCALING. EXTENSIVE DELAMINATION. EXTENSIVE SURFACE LOSS WITH RUSTY STEEL SHOWING. EXTENSIVE LOOSE OR ROTTEN CONCRETE. EARLY OR BEGINNING TENSION CRACKS ON BOTTOM OF DECK. OR COMBINATION THEREOF.

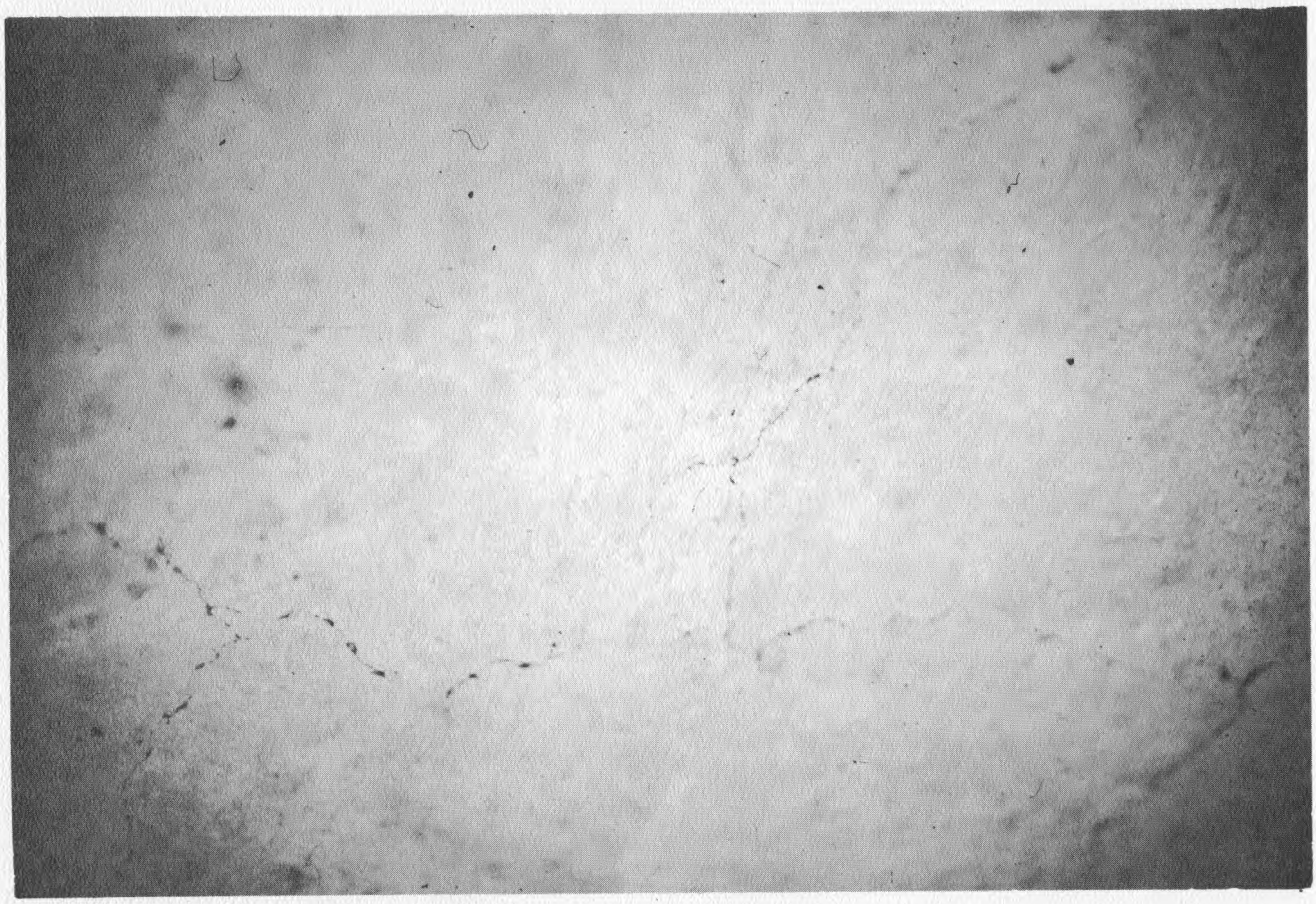


50 - G

50 - H

50 - I

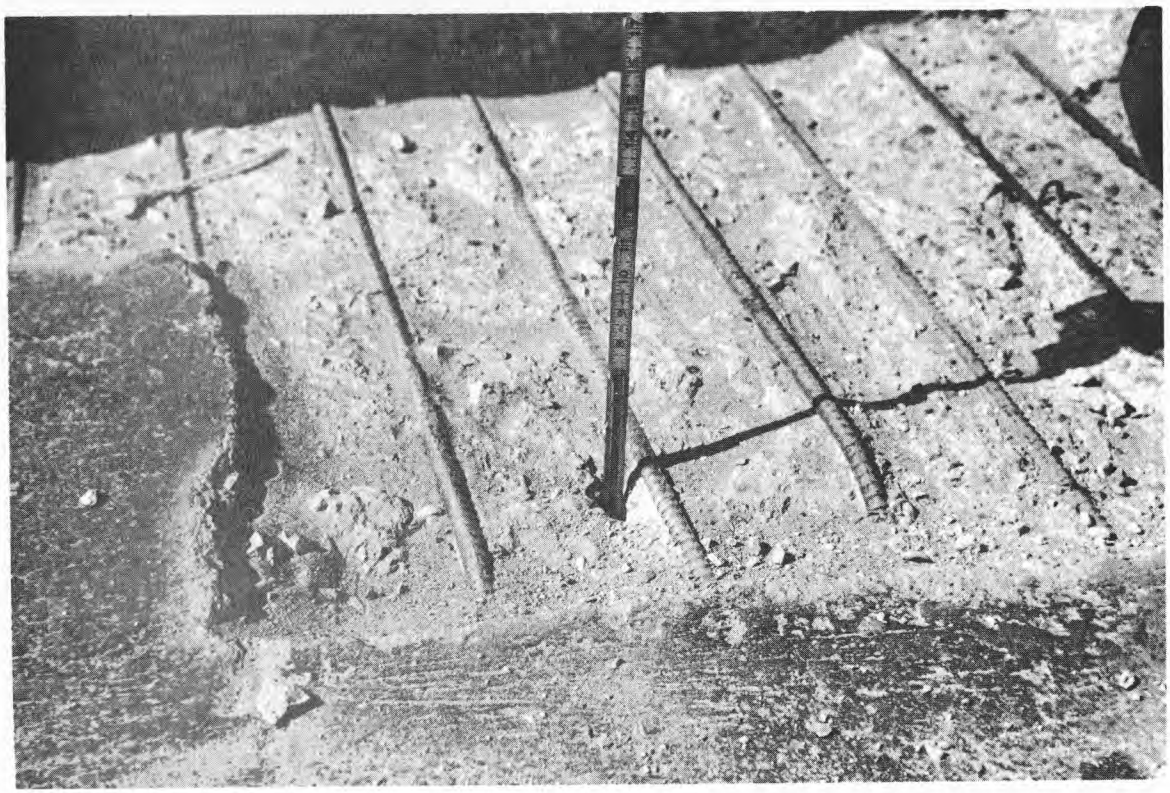
50. SEVERE CRACKING, SPALLING OR SCALING. EXTENSIVE DELAMINATION. EXTENSIVE SURFACE LOSS WITH RUSTY STEEL SHOWING. EXTENSIVE LOOSE OR ROTTEN CONCRETE. EARLY OR BEGINNING TENSION CRACKS ON BOTTOM OF DECK. OR COMBINATION THEREOF.



50 - J

(Tension Cracking)

50. SEVERE CRACKING, SPALLING OR SCALING. EXTENSIVE DELAMINATION. EXTENSIVE SURFACE LOSS WITH RUSTY STEEL SHOWING. EXTENSIVE LOOSE OR ROTTEN CONCRETE. EARLY OR BEGINNING TENSION CRACKS ON BOTTOM OF DECK. OR COMBINATION THEREOF.

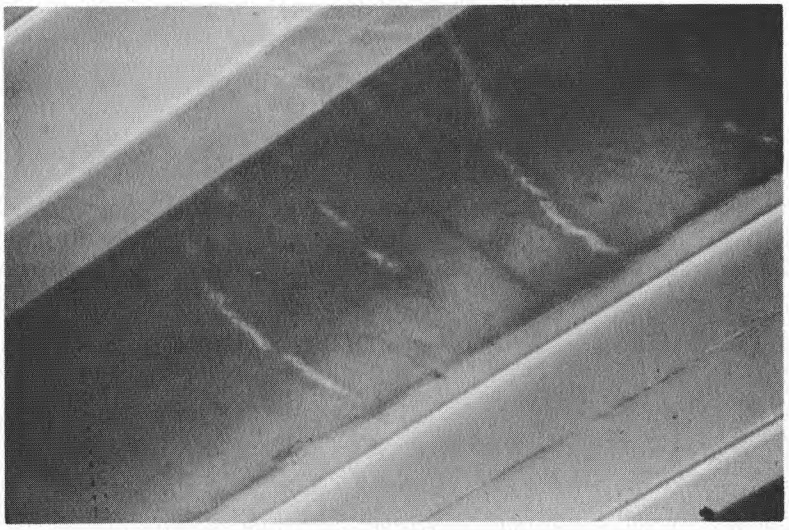


Photographs taken during investigation and removal of separated concrete and showing very extensive delamination.

(50. Cont'd)

Photographs taken during investigation and removal of separated concrete and showing very extensive delamination.

(50. Cont'd)



51 - A

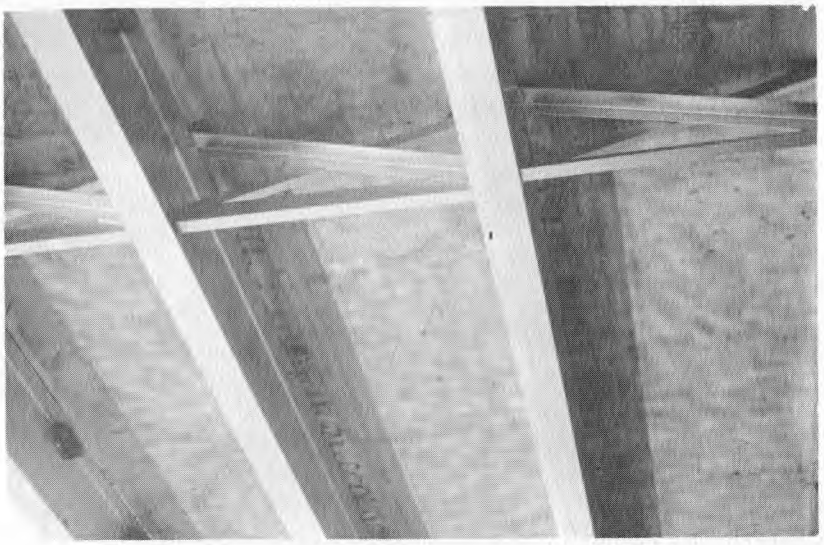
51 - B

51. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 50.

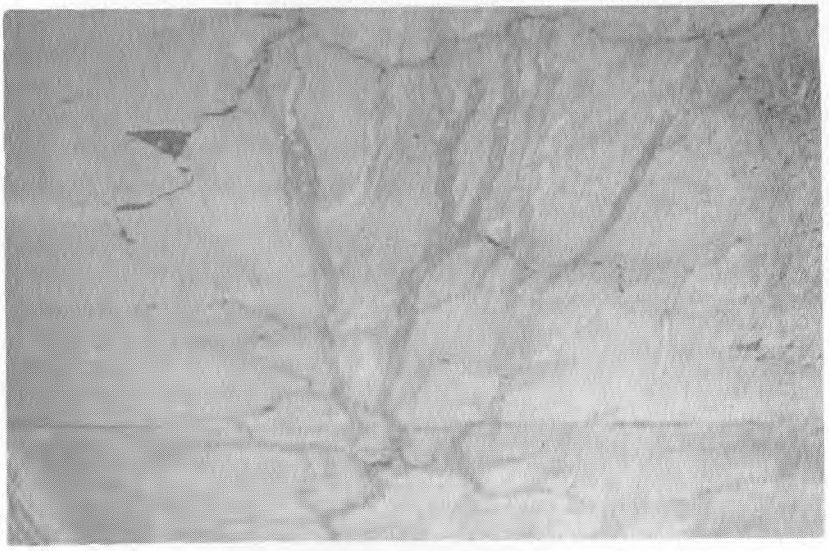
51 - C

51 - D

51. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 50.



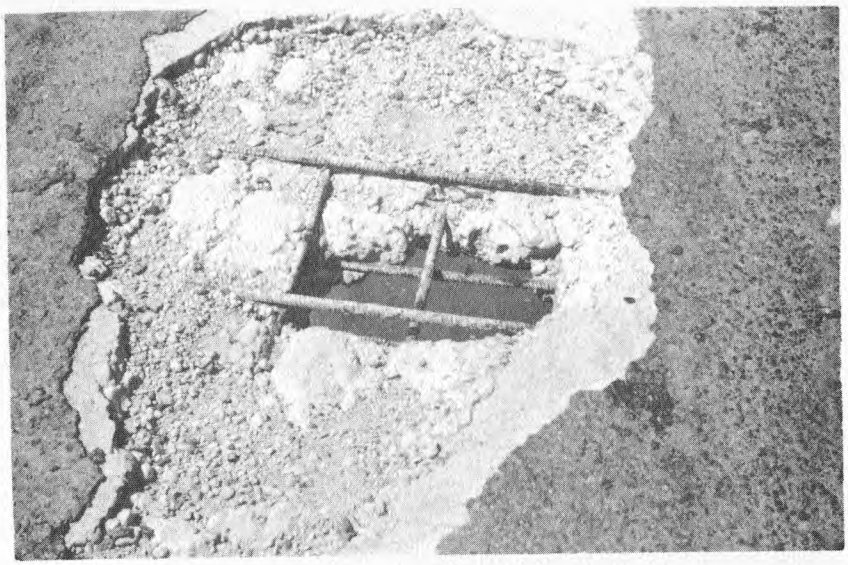
52 - A



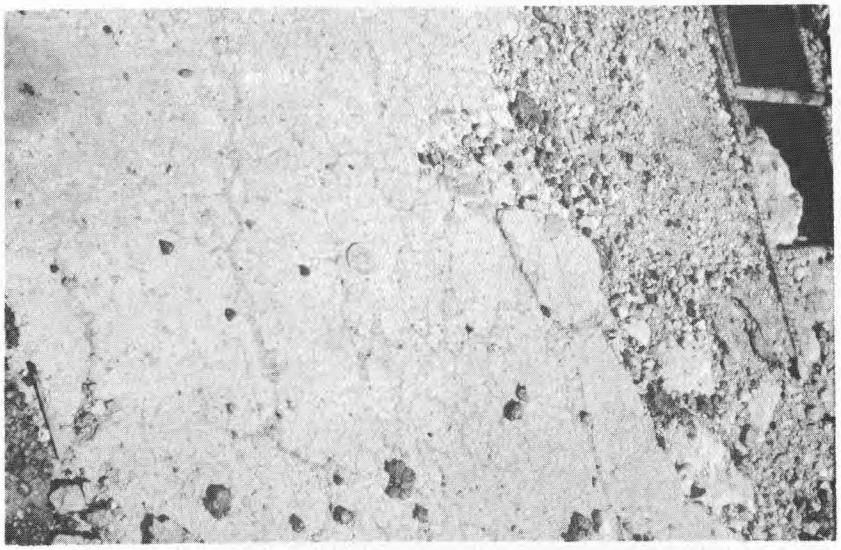
52 - B

52 - C

52. EXTENSIVE OR SEVERE TENSION CRACKING ON BOTTOM OF DECK COMBINED WITH ANY OF THE ABOVE. (REPLACE LAST DIGIT, 2, TO DENOTE COMBINATION. i.e., 54 INDICATES 52 COMBINED WITH 40.



60 - A



60 - B

60 - C

60. DECK FAILURE: CRACKING THROUGH DECK WITH LOSS OF INTEGRITY BETWEEN CONCRETE AND STEEL OR HOLES COMPLETELY THROUGH DECK.

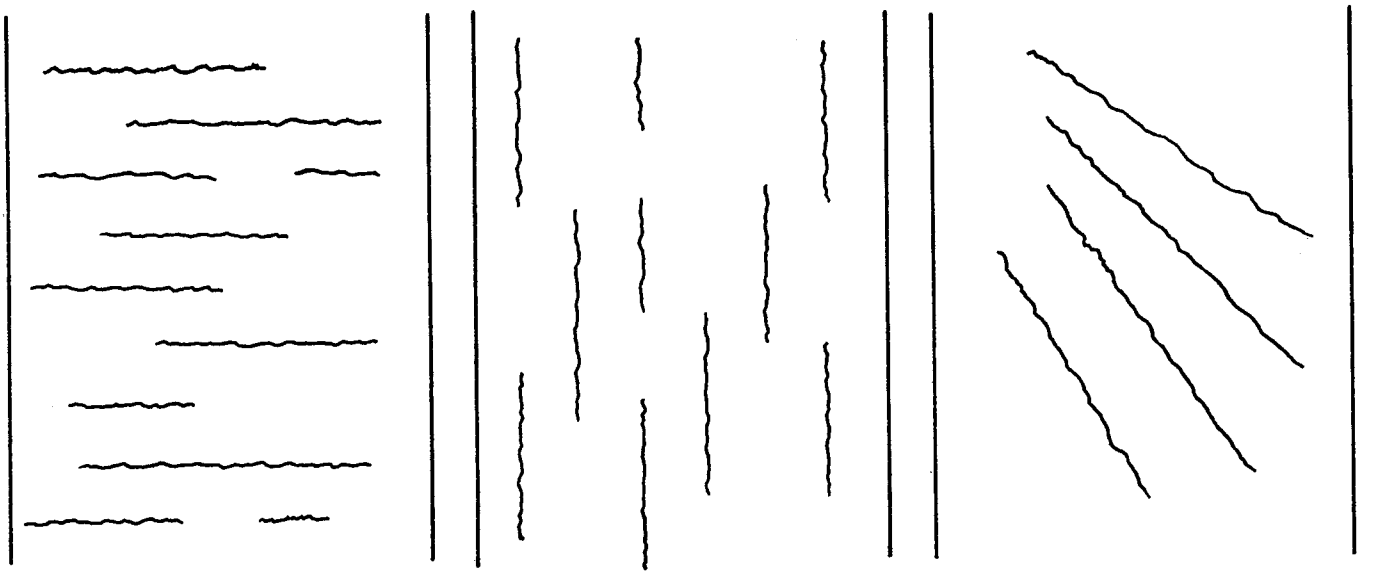
Photograph showing localized deck failure with extensive delamination (uncovered).

(60. Cont'd)

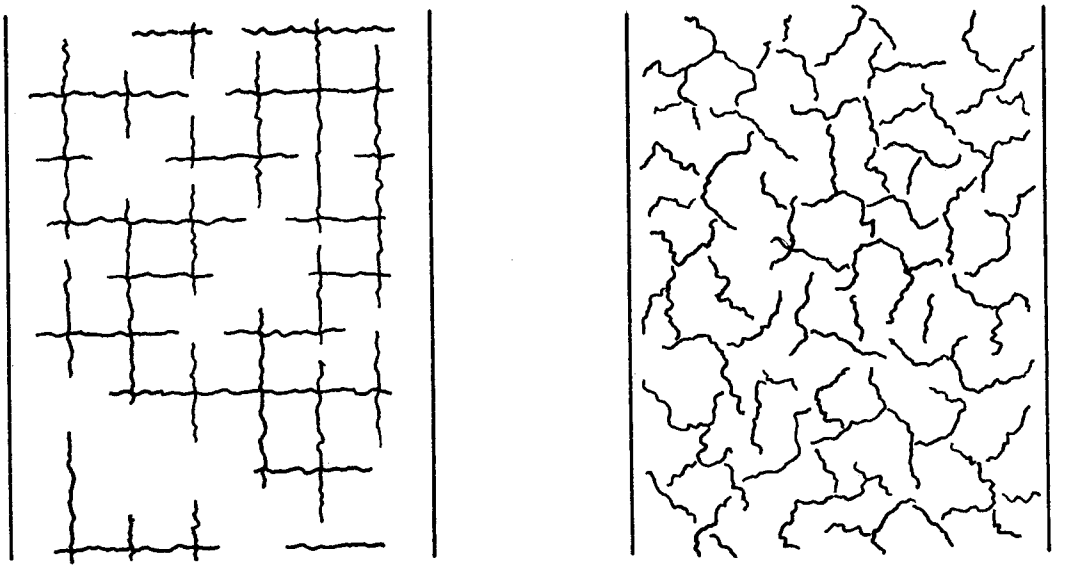
GENERAL DECK CONDITION

10. GOOD: NO CRACKING, SPALLING, SCALING, DELAMINATION OR ROUGHNESS.
20. MINOR FINE CRACKING, SLIGHT ROUGHNESS OR VERY SLIGHT, SHALLOW AND INFREQUENT SPALLING OR SCALING. OR COMBINATION THEREOF. NO DELAMINATION.
30. MODERATE CRACKING, SPALLING OR SCALING. MINOR AND INFREQUENT DELAMINATION. MINOR SURFACE LOSS. OR COMBINATION THEREOF.
31. TRANSVERSE CRACKS ON BOTTOM OF DECK SHOWING LEAKAGE.
32. LEAKING TRANSVERSE CRACKS COMBINED WITH 20.
33. LEAKING TRANSVERSE CRACKS COMBINED WITH 30.
40. EXTENSIVE CRACKING, SPALLING OR SCALING. MODERATE DELAMINATION AND SURFACE LOSS WITH OCCASIONAL POP-OUTS OR POT HOLES. LOOSE OR ROTTEN CONCRETE. OR COMBINATION THEREOF.
44. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 40.
50. SEVERE CRACKING, SPALLING OR SCALING. EXTENSIVE DELAMINATION. EXTENSIVE SURFACE LOSS WITH RUSTY STEEL SHOWING. EXTENSIVE LOOSE OR ROTTEN CONCRETE. EARLY OR BEGINNING TENSION CRACKS ON BOTTOM OF DECK. OR COMBINATION THEREOF.
51. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 50.
52. EXTENSIVE OR SEVERE TENSION CRACKING ON BOTTOM OF DECK COMBINED WITH ANY OF THE ABOVE. (REPLACE LAST DIGIT, 2, TO DENOTE COMBINATION. i.e., 54 INDICATES 52 COMBINED WITH 40.
60. DECK FAILURE: CRACKING THROUGH DECK WITH LOSS OF INTEGRITY BETWEEN CONCRETE AND STEEL OR HOLES COMPLETELY THROUGH DECK.

Summary List



Transverse Longitudinal Diagonal



Checkerboard Map, Alligator or Random

FIGURE 1

Types of Cracking

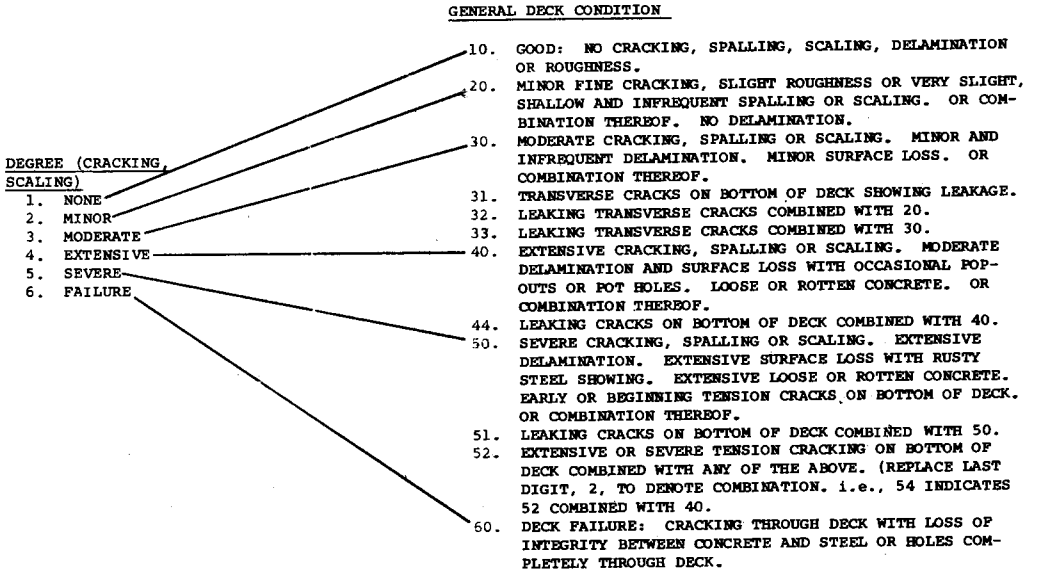
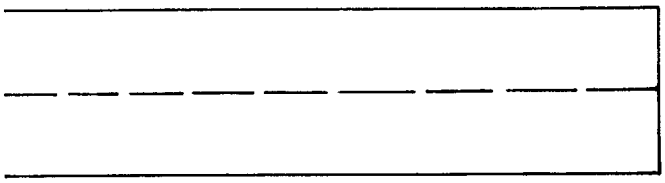
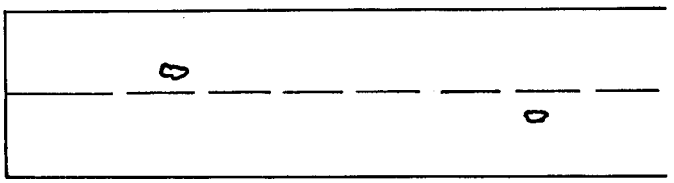


FIGURE 2

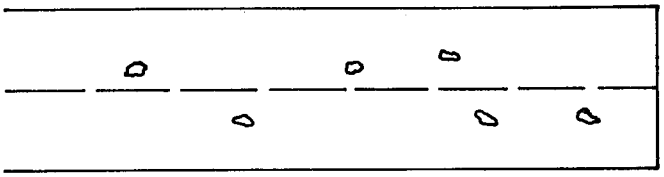
Relationship Beween Classifications



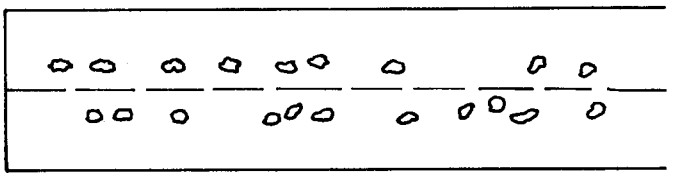
1. NO DELAMINATION



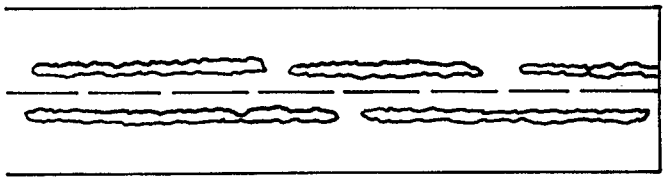
2. SMALL, ISOLATED AREA OR AREAS



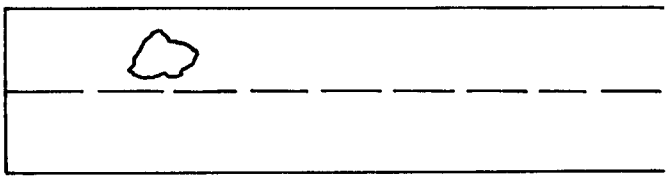
3. SMALL AREAS MODERATELY SPACED



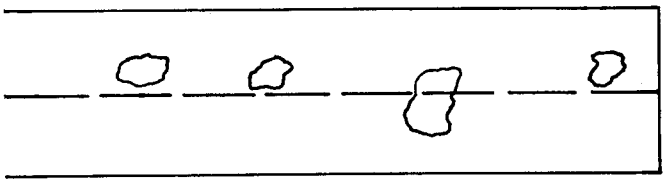
4. SMALL AREAS CLOSELY SPACED



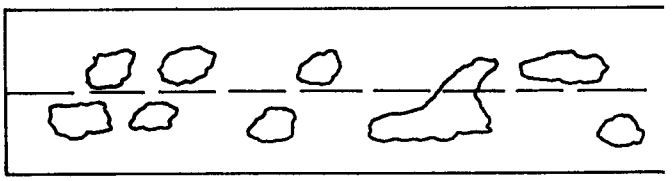
5. SMALL AREA CONTINUOUS



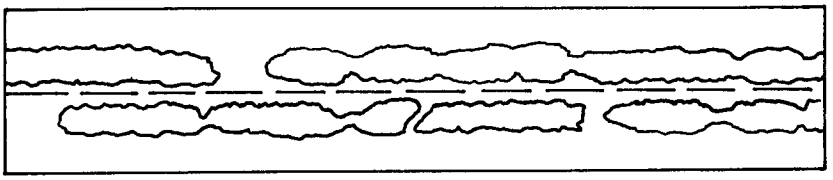
6. LARGE, ISOLATED AREA OR AREAS



7. LARGE AREAS MODERATELY SPACED



8. LARGE AREAS CLOSELY SPACED



9. LARGE AREA CONTINUOUS

FIGURE 3

Degree of Delamination

TEXAS HIGHWAY DEPARTMENT
BRIDGE DECK SURVEY

DATE
DATE
DATE

STRUCTURE NAME _____
SURVEYED BY _____
CODED BY _____
CHECKED BY _____
REMARKS _____

CONDITION OF STRUCTURE OTHER THAN DECK _____

1	3	6	10	12	15	18	19	20	22	26	28	29	31	32	34	42	43	45	50	53	54	56	57	58	61	64	67	68	69	71	74	79	80
DISTRICT	COUNTY NO.	CONTROL	SECTION	JOB	PERMANENT STR. NO.	HIGHWAY DESIGN	HIGHWAY TYPE	DESIGNED BY	HIGHWAY NUMBER	DESIGN SPEC.	DESIGN LOADING	SPAN TYPE	STR. TYPE	MAIN MEMBER TYPE	SUPER STRUCTURE STANDARD	STRINGERS: NUMBER	STRINGERS: SPACING (FT)	STRINGERS: SIZE	ROADWAY (FT) RAIL TO RAIL	CURB TYPE	SKEW (EVEN DEG.)	TYPE CROWN	TYPE DECK	SPAN LENGTH FT.: SIMPLE SPAN OR BEGINNING SPAN OF CONTINUOUS UNIT	SPAN LENGTH FT.: SECOND SPAN OF CONTINUOUS UNIT	SPAN LENGTH FT.: TOTAL LENGTH CONTINUOUS UNIT	NO. OF SPANS (C.U.)	UNSYMM. UNIT	SUBSTR. TYPE	SLAB THICKNESS(IN.)	TRAFFIC VOLUME (V.P.D.)	NO. OF CARDS

DESIGNED BY
1 - 25 DISTRICT
DIRECT NUMERICAL CODING
50. BRIDGE DIVISION, D-5
60. HOUSTON URBAN
70. CONSULTING ENGINEER

HIGHWAY DESIGN
1. TWO-WAY TRAFFIC
2. ONE-WAY TRAFFIC
3. BOULEVARD
4. EXPRESSWAY - NO SERVICE ROAD
5. EXPRESSWAY - ONE SERVICE ROAD
6. EXPRESSWAY - TWO SERVICE ROADS
7. FREEWAY - NO SERVICE ROAD
8. FREEWAY - ONE SERVICE ROAD
9. FREEWAY - TWO SERVICE ROADS

HIGHWAY TYPE
1. INTERSTATE
2. U. S. HIGHWAY
3. STATE HIGHWAY
4. FARM-TO-MARKET
5. RANCH-TO-MARKET
6. PARK ROAD
7. INTERSTATE LOOP
8. U. S. LOOP
9. STATE LOOP

DESIGN LOADING
1. H10 OR LOWER
2. H15
3. H15-S12
4. H20
5. H20-S16
6. OTHER

CEMENT SOURCE:
1. LONE STAR CEMENT CORP., DALLAS, TEXAS
2. GENERAL PORTLAND CEMENT CO., TRINITY DIV., DALLAS
3. IDEAL CEMENT COMPANY, HOUSTON, TEXAS
4. SOUTHWESTERN PORTLAND CEMENT COMPANY, EL PASO, TEXAS
5. LONGHORN PORTLAND CEMENT COMPANY, SAN ANTONIO, TEXAS
6. SAN ANTONIO PORTLAND CEMENT CO., SAN ANTONIO, TEXAS
7. UNIVERSAL ATLAS CEMENT COMPANY, WACO, TEXAS
8. HALLIBURTON CEMENT COMPANY, CORPUS CHRISTI, TEXAS
9. TEXAS PORTLAND CEMENT COMPANY, ORANGE, TEXAS
10. TEXAS INDUSTRIES CEMENT COMPANY, MIDLOTHIAN, TEXAS
11. ARKANSAS CEMENT CORPORATION, FOREMAN, ARKANSAS
12. OKLAHOMA PORTLAND CEMENT CORP., OKLAHOMA CITY, OKLA.
13. DEWEY PORTLAND CEMENT COMPANY, DEWEY, OKLAHOMA

STRUCTURE TYPE
1. DECK TYPE
2. PART THROUGH TYPE
3. THROUGH TYPE

SPAN TYPE
1. ARCH
2. BASCULE
3. CANTILEVER AND SUSPENDED ARCH
4. CANTILEVER AND SUSPENDED SPAN
5. CANTILEVER SPAN
6. COMPLETELY CAST-IN-PLACE
7. COMPLETELY PRE-CAST
8. CONTINUOUS
9. CONTINUOUS COMPOSITE
10. HOLLOW BOX GIRDER
11. LIFT SPANS
12. PAN FORMS
13. PRECAST BEAMS, CAST-IN-PLACE
14. PRECAST SECTIONS
15. RIGID FRAMES, STEEL
16. RIGID FRAMES, CONCRETE
17. SIMPLE
18. SIMPLE COMPOSITE
19. SLAB AND GIRDER CAST-IN-PLACE
20. SLAB SPAN
21. SWING SPAN

MAIN MEMBER TYPE
1. STEEL I-BEAM
2. STEEL PLATE GIRDER
3. STEEL TRUSSES
4. CONCRETE, REINFORCED
5. CONCRETE, PRE-TENSION
6. CONCRETE, POST-TENSION
7. CONCRETE, POST-TENSION & PRE-TENSION
ALUMINUM
9. PLASTIC, FIBERGLASS
10. PLASTIC, REINFORCED WITH STEEL
11. TIMBER
12. SUSPENSION BRIDGE, STEEL STIFFENER GIRDERS
13. SUSPENSION BRIDGE, CONCRETE STIFFENER GIRDERS
14. STEEL I BEAM AND STEEL PLATE GIRDER
15. STEEL I BEAM AND STEEL TRUSS
16. STEEL I BEAM AND CONCRETE REINF.
17. STEEL I BEAM AND CONCRETE PRE-TENSION
18. STEEL I BEAM AND CONCRETE POST-TENSION
19. STEEL I BEAM AND OTHER
20. STEEL PLATE GIRDER AND STEEL TRUSS
21. STEEL PLATE GIRDER AND CONCRETE REINF.
22. STEEL PLATE GIRDER AND CONCRETE PRE-TENSION
23. STEEL PLATE GIRDER AND CONCRETE POST-TENSION
24. STEEL PLATE GIRDER AND OTHER
25. STEEL TRUSS AND CONCRETE REINF.
26. STEEL TRUSS AND CONCRETE PRE-TENSION
27. STEEL TRUSS AND CONCRETE POST-TENSION
28. STEEL TRUSS AND OTHER
29. CONCRETE REINFORCED AND PRE-TENSION
30. CONCRETE REINFORCED AND POST-TENSION
31. CONCRETE REINFORCED AND OTHER

TYPE DECK
1. CONCRETE, LIGHTWEIGHT
2. CONCRETE, HARD ROCK
3. TIMBER
4. STEEL GRID
5. METAL DECK PLATE

TYPE CROWN
1. NORMAL CROWN
2. CONSTANT SLOPE OR SUPERELEVATED
3. SPECIAL CROWN
4. VARYING SUPERELEVATION

CURB TYPE
0. NO CURBS, WALKS, OR MEDIANS, OR NO INFO.
1. ONE SIDE ONLY
2. ON BOTH SIDES
3. MEDIAN ONLY
4. ONE SIDE AND MEDIAN
5. ON BOTH SIDES AND MEDIAN

SUBSTRUCTURE TYPE
1. CONCRETE COLUMN BENTS
2. CONCRETE PILE BENTS
3. CONCRETE "T" BENTS
4. CONCRETE PIERS
5. CONCRETE PIER AND CONCRETE COLUMN BENTS
6. STEEL FLOOR BEAM BENTS
7. STEEL PILE BENTS
8. TIMBER BENTS
9. OTHER

18	20	21	22	23	24	26	28	30	31	35	39	40	44	45	47	49	50	51	53	54	56	80
HEAVIEST WHEEL LOAD (KIPS)	TRANS-MIX	% AIR E.	TYPE ADMIX.	TYPE CEMENT	CEMENT SOURCE	CEMENT, SACKS PER C.Y.	TYPE AGGREGATE	TYPE FINISH	DATE SLAB PLACED	DATE OPEN TO TRAFFIC	TYPE OVERLAY	DATE OVERLAY APPLIED	COND. OF OVERLAY	FIRST YEAR SALT USED	SALT APPLICATIONS PER YEAR	TYPE AREA	SULFATE STREAM	SUB-STRUCTURE CONDITION	SLAB DRAINAGE	WIDENING	NAME OF STRUCTURE	

NAME OF STRUCTURE

(Capital letters, arabic numerals, blank spaces, and the special characters /+, (-) $*,= may be used in this space. Each character must occupy a space.)

TYPE CEMENT
1. TYPE I
2. TYPE II
3. TYPE III

TYPE ADMIX
0. NONE
1. WATER REDUCING
2. RETARDING
3. AIR ENTRAINING
4. COMBINATION

TYPE OF AGGREGATE
1. SILICEOUS COARSE, SILICEOUS FINE
2. CRUSHED STONE COARSE, SILICEOUS FINE
3. STAFFORD L. W. COARSE, SILICEOUS FINE
4. DALLAS L. W. COARSE, SILICEOUS FINE
5. EASTLAND L. W. COARSE, SILICEOUS FINE
6. RANGER L. W. COARSE, SILICEOUS FINE
7. CONVERSE L. W. COARSE, SILICEOUS FINE
8. STAFFORD L. W. COARSE, STAFFORD FINE
9. DALLAS L. W. COARSE, DALLAS FINE
10. EASTLAND L. W. COARSE, EASTLAND FINE
11. RANGER L. W. COARSE, RANGER FINE
12. CONVERSE L. W. COARSE, CONVERSE FINE
13. OTHER

TYPE FINISH
1. BELT
2. FLOAT
3. OTHER

CONDITION OF OVERLAY
1. GOOD
2. MINOR CRACKING
3. MAJOR CRACKING
4. RAVELLING
5. LOSS OF ADHESION
6. DISPLACEMENT OR SHOVING
7. SMALL PORTIONS MISSING
8. EXTENSIVE PORTIONS MISSING
9. COMBINATION OF THE ABOVE (EXPLAIN IN NOTE AREA)

TYPE OVERLAY OR SEAL
0. NONE
1. LINSEED OIL
2. EPOXY
3. POLYESTER
4. ASPHALT SEAL
5. ASPHALTIC CONCRETE
6. OTHER

CONDITION OF SUBSTRUCTURE
1. GOOD
2. DAMAGE FROM MOVEMENT
3. DAMAGE FROM LEAKAGE
4. DAMAGE FROM SALT APPLICATION
5. OTHER
6. COMBINATION OF 2 & 3
7. COMBINATION OF 2 & 4
8. COMBINATION OF 2 & 5
9. COMBINATION OF 3 & 4
10. COMBINATION OF 3 & 5
11. COMBINATION OF 4 & 5

TYPE OF AREA
1. URBAN (DOWNTOWN)
2. URBAN (INDUSTRIAL)
3. URBAN (RESIDENTIAL)
4. RURAL (INDUSTRIAL)
5. RURAL (RESIDENTIAL)
6. RURAL (GENERAL)
7. OTHER

WIDENING
0. NO
1. YES
2. YES - EVALUATED SEPARATELY

SLAB DRAINAGE
1. GOOD
2. FAIR
3. POOR

Form 1102-1

WEATHER DURING DECK POURING
1. NO RECORD
2. HOT DRY
3. HOT DRY WINDY
4. HOT HUMID
5. HOT HUMID WINDY
6. COOL DRY
7. COOL DRY WINDY
8. COOL HUMID
9. COOL HUMID WINDY
10. COLD DRY
11. COLD DRY WINDY
12. COLD HUMID
13. COLD HUMID WINDY

MOMENT CONDITION
1. SIMPLE SPAN
2. POSITIVE MOMENT AREA
3. NEGATIVE MOMENT AREA
4. LOW MOMENT AREA

DEGREE (CRACKING, SCALING)
1. NONE
2. MINOR
3. MODERATE
4. EXTENSIVE
5. SEVERE
6. FAILURE

TYPE CRACKING
1. TRANSVERSE
2. LONGITUDINAL
3. DIAGONAL
4. CHECKERBOARD
5. MAP (RANDOM)
6. OTHER

LOCATION (CRACKING, SCALING, DELAMINATION)
1. GENERAL
2. PARAPET
3. CURB
4. GUTTER
5. OVER BEAMS
6. BETWEEN BEAMS
7. CENTER OF SPAN
8. OVER PIERS
9. IN WHEEL PATHS

DEGREE (DELAMINATION)
1. NO DELAMINATION
2. SMALL, ISOLATED AREA OR AREAS
3. SMALL AREAS MODERATELY SPACED
4. SMALL AREAS CLOSELY SPACED
5. SMALL AREA CONTINUOUS
6. LARGE, ISOLATED AREA OR AREAS
7. LARGE AREAS MODERATELY SPACED
8. LARGE AREAS CLOSELY SPACED
9. LARGE AREA CONTINUOUS

TYPE OF JOINT
1. TYPE A (EXPANSION)
2. TYPE B (FIXED, SEALED)
3. FIXED NO SEAL

TYPE JOINT SEAL
0. NONE
1. COLD RUBBER
2. HOT RUBBER
3. TWO COMPONENT POLYMER
4. POURED ASPHALT
5. FORMED NEOPRENE
6. OTHER

JOINT CONDITION
1. GOOD
2. SPALLING
3. LOSS OF SEAL
4. SPALLING & LOSS OF SEAL
5. FIXED JOINTS OPEN & FILLED WITH DIRT, ETC.
6. EXPANSION JOINTS CLOSED
7. EXPANSION JOINTS OPEN EXCESSIVELY

POUR NUMBER	WEATHER DURING DECK POURING	MOMENT COND	CRACKING: DEGREE	CRACKING: TYPE	CRACKING: SPACING EVEN FT.	CRACKING: LOCATION	SCALING: DEGREE	SCALING: DEPTH (IN.)	SCALING: % AREA	SCALING: LOCATION	DELAM.: DEGREE	DELAM.: VIS. CRACKING	DELAM.: % AREA	DELAM.: LOCATION	GENERAL DECK CONDITION	TYPE JOINT	TYPE JT. SEAL	JOINT CONDITION	% EFFECTIVE SEAL	AMPLITUDE OF VIBRATION (IN) (STANDARD LOAD)	FREQUENCY OF VIBRATION (CPS) (STANDARD LOAD)	DEFLECTION (IN) (STANDARD LOAD)	STRUCTURE DESCRIPTION OR COMMENTS
01																							
02																							
03																							
04																							
05																							
06																							
07																							
08																							
09																							
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22																							
23																							
24																							
25																							

18 20 22 23 24 26 28 29 30 33 35 36 37 38 40 41 43 44 45 47 49 52 55 59 80

STRUCTURE DESCRIPTION OR COMMENTS

Any pertinent information may be placed in space using capital letters, arabic numerals, blank spaces and the special characters /+.(−)$*,= Each character must occupy a space.

GENERAL DECK CONDITION

10. GOOD: NO CRACKING, SPALLING, SCALING, DELAMINATION OR ROUGHNESS.
20. MINOR FINE CRACKING, SLIGHT ROUGHNESS OR VERY SLIGHT, SHALLOW AND INFREQUENT SPALLING OR SCALING. OR COMBINATION THEREOF. NO DELAMINATION.
30. MODERATE CRACKING, SPALLING OR SCALING. MINOR AND INFREQUENT DELAMINATION. MINOR SURFACE LOSS. OR COMBINATION THEREOF.
31. TRANSVERSE CRACKS ON BOTTOM OF DECK SHOWING LEAKAGE.
32. LEAKING TRANSVERSE CRACKS COMBINED WITH 20.
33. LEAKING TRANSVERSE CRACKS COMBINED WITH 30.
40. EXTENSIVE CRACKING, SPALLING OR SCALING. MODERATE DELAMINATION AND SURFACE LOSS WITH OCCASIONAL POP-OUTS OR POT HOLES. LOOSE OR ROTTEN CONCRETE. OR COMBINATION THEREOF.
44. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 40.
50. SEVERE CRACKING, SPALLING OR SCALING. EXTENSIVE DELAMINATION. EXTENSIVE SURFACE LOSS WITH RUSTY STEEL SHOWING. EXTENSIVE LOOSE OR ROTTEN CONCRETE. EARLY OR BEGINNING TENSION CRACKS ON BOTTOM OF DECK. OR COMBINATION THEREOF.
51. LEAKING CRACKS ON BOTTOM OF DECK COMBINED WITH 50.
52. EXTENSIVE OR SEVERE TENSION CRACKING ON BOTTOM OF DECK COMBINED WITH ANY OF THE ABOVE. (REPLACE LAST DIGIT, 2, TO DENOTE COMBINATION. i.e., 54 INDICATES 52 COMBINED WITH 40.
60. DECK FAILURE: CRACKING THROUGH DECK WITH LOSS OF INTEGRITY BETWEEN CONCRETE AND STEEL OR HOLES COMPLETELY THROUGH DECK.

NOTES
1. ALL DATES, GIVE MONTH AND YEAR.
2. COUNTY NO. -USE TEXAS HIGHWAY DEPT. COUNTY NO.
3. SUPER STRUCTURE STANDARD-GIVE ACTUAL STANDARD DESIGNATION OR AN "AGREED STANDARD DESIGNATION" IF THE STANDARD DESIGNATION TAKES TOO MUCH SPACE.
4. SPAN LENGTHS (EVEN FEET)
5. NUMBER OF CARDS-GIVE TOTAL NUMBER OF LINES FILLED IN, FRONT AND BACK.
6. DESIGN SPECIFICATION--GIVE YEAR.
7. SIZE STRINGERS--USE 30108 FOR 30WF108 AND SIMILAR ACCEPTED DESIGNATIONS SUCH AS TYPE A, SIZE 54, 42PLG.
8. UNSYMMETRICAL UNIT -- 0 IF NO, 1 IF YES.
9. TRANSIT MIX -- 0 IF NO, 1 IF YES.
10. SULFATE STREAM -- 0 IF NO, 1 IF YES.
11. DELAM; VIS. CRACKING -- 0 IF NO, 1 IF YES.
12. USE A SEPARATE SHEET FOR WIDENED PORTION OF A STRUCTURE IF DESIGN OR CONDITION IS MATERIALLY DIFFERENT FROM ORIGINAL PORTION OF STRUCTURE.
13. USE A SEPARATE SHEET FOR PORTIONS OF STRUCTURE OF DIFFERENT DESIGN OR WHERE OTHER CONFLICT OF DATA MAY EXIST.
14. GENERAL DECK CONDITION -- THE NUMERICAL CLASSIFICATION PROVIDED MAY BE SUPPORTED OR CLARIFIED WHEN NECESSARY BY WRITTEN NOTES SHOWING ANY UNUSUAL CONDITION OR COMBINATION OF CONDITIONS.

Form 1102-2