

County: Dallas, Off-System

DUPLICATE

Bridge: P00220-001

Facility over: Oaks North

Feature Intersected: Farmers Branch Creek

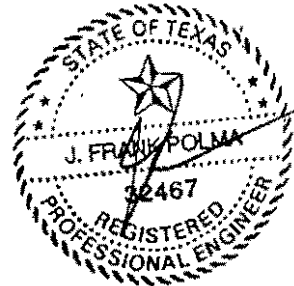
Smith®



Bridge Inspection Record

District 18 County 057 Cont-Sec P00220 Structure 001 Route Oaks North
 Description 4- Barrel Concrete Box Culvert
 Inspector's Signature J.F. Palma Date 4/22/96

- N - Not applicable
- 9 - Excellent condition
- 8 - Very good condition - no problems noted
- 7 - Good condition - some minor problems
- 6 - Satisfactory condition - minor deterioration of structural elements (limited)
- 5 - Fair condition - minor deterioration of structural elements (extensive)
- 4 - Poor condition - deterioration significantly affects structural capacity
- 3 - Serious condition - deterioration seriously affects structural capacity
- 2 - Critical condition - bridge should be closed until repaired
- 1 - Failing condition - bridge closed but repairable
- 0 - Failed condition - bridge closed and beyond repair



Enter a rating for each element of each component. The rating should equal or exceed the minimum rating listed to the left of each element. Component Ratings should equal the lowest rating of any element of the component. Fully supportive comments are to be made hereon or on attachments for all ratings of 7 or below.

Min.	Deck (Item 58)	Rating
1	Deck - Rating	N
6	Wearing Surface <u>D</u>	7
6	Joints, Expansion, Open	N
6	Joints, Expansion, Sealed	N
6	Joints, Other	N
6	Drainage System	B
6	Curbs, Sidewalks & Parapets	N
6	Median Barrier	N
6	Railings <u>non-std.</u>	B
7	Railing Protective Coating	B
7	Delineation (curve markers)	N
	Other	N

Min.	Superstructure (Item 59)	Rating
0	Main Members - Steel	N
0	Main Members - Concrete	N
0	Main Members - Timber	N
0	Main Member Connections	N
1	Floor System Members	N
1	Floor System Connections	N
5	Secondary Members	N
5	Secondary Member Connections	N
6	Expansion Bearings	N
6	Fixed Bearings	N
6	Steel Protective Coating	N
	Other	N
	Component Rating	N

Comments: D minor concrete cracks

Comments:

Min.	Substructure (Item 60)	Rating
0	Abutment Caps	N
0	Above Ground	N
0	Below Ground or Foundation	N
5	Backwalls & Wingwalls	N
0	Intermediate Supports	N
	Caps - Concrete	N
	Caps - Steel	N
	Caps - Timber	N
	Above Ground - Concrete	N
	Above Ground - Steel	N
	Above Ground - Timber	N
	Above Ground - Masonry	N
	Below Ground or Foundation	N
5	Collision Protection System	N
6	Steel Protective Coating	N
	Component Rating	N

Comments: _____

Min.	Channel (Item 61)	Rating
0	Channel Banks	8
0	Channel Bed	8
5	Rip Rap, Toe Walls & Aprons	7
5	Dikes	N
5	Jetties	N
	Other	N
	Component Rating	7

Comments: Minor erosion
Minor debris low grate

Min.	Culverts (Item 62)	Rating
0	Top Slabs ⁽¹⁾	7
0	Bottom Slab or Footings	8
0	Abutments & Intermediate Supports	8
5	Headwalls & Wingwalls ⁽²⁾	7
	Other	N
	Component Rating	7

Comments: ⁽¹⁾ Spalls w/ bar exposure
⁽²⁾ Cracks in WW & hdw. conn.

Min.	Approaches (Item 65)	Rating
0	Embankments	N
4	Embankment Retaining Walls	N
5	Slope Protection	N
5	Roadway	8
6	Relief Joints	N
6	Drainage	8
6	Guardfence	N
7	Delineation	N
7	Sight Distance	8
	Other	N
	Component Rating	8

Comments: No approach rail.

Min.	Miscellaneous	Rating
7	Signs	N
7	Illumination	N
7	Warning Devices	N
7	Utility Lines	8
	Other	N

Comments: OH power - East
Not load posted.

Bridge Appraisal Worksheet

District 18 County 257 Cont - Sec PO0220 Structure 001 Route Oaks North

Traffic Safety Features (Item 36)
 Standard MBGF Standard Traffic or Combination Rail
 None N/A Damaged Non-Std.
 Other non-std.
Bridge Railing (1st Digit) Rating — 0

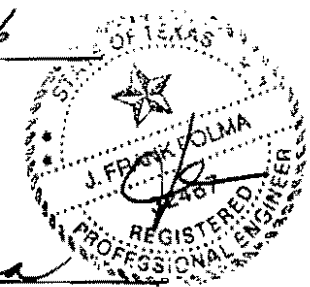
MBGF Transition Standard Traffic or Combination Rail
 None N/A Damaged Non-Std.
 Other _____
Transitions (2nd Digit) Rating — 0

Standard MBGF Standard Traffic or Combination Rail
 None N/A Damaged Non-Std.
 Other _____
Approach Guardrail (3rd Digit) Rating — 0

MBGF Terminal Impact Attenuator
 None N/A Damaged Non-Std.
 Other _____
Guardrail Terminal (4th Digit) Rating — 0

Structural Evaluation (Item 67)
 IR= HS20
 Other _____
 Condition Ratings ADT 600 Yr. 91
 Superstructure (Item 59) From TXDOT Traffic Count
 Substructure (Item 60) From Field Estimates
 Culvert (Item 62)
 Structural Rating (Table 1) 8 Rating — 7

Deck Geometry (Item 68)
 No. of Lanes (Each Way) 1
 2 Lanes, 2-Way Traffic (Table 2A)
 2 or More Lanes Each Way (Table 2C)
 Limited Access Freeway
 Multilane Facility
 1-Way ramp (Table 2D)
 Overpassing Vertical Clearance
 Posted
 Measured
 Estimated
 Limited Access
 Arterial
 Collector or Local
 Bridge Roadway Width 29/29
 Bridge Roadway Width Rating 5
 Vertical Clearance Rating (Table 2E) N
 Rating — 5

Date 4/28/96

 Signature J. F. Polma

Underclearances (Item 69)
 Stream Crossing (Item N/A) Lateral Clear Right (Item 55)
 Vertical Underclearance (Item 54) Lateral Clear Left (Item 56)
 Posted Meas. Est.
 1-Way Traffic
 2-Way Traffic
 Acceleration & Deceleration Lane or Ramp under 2-way Traffic
Route Description
 Limited Access, Rural
 Limited Access, Urban
 Principal & Minor Arterials
 Collector & Local Roads
 Railroad
 Lateral Clearance Rating (Table 3B) _____
 Vertical Underclearance Rating (Table 3A) _____ Rating — N

Bridge Posting (Item 70)
 OR= HS27
 Other _____
 Posted Load _____
 Required Posting _____
 Rating — 5

Waterway Adequacy (Item 71)
 Grade Separation (Item N/A)
 No Evidence of Flooding Deck above Approaches
 Evidence of Flooding
 Chance of Overtopping Deck Rdwy. Traffic Delay If Flooded
 Insignificant
 Significant
 Severe
 Remote (> 100 Yrs.)
 Slight (11-100 Yrs.)
 Occasional (3-10 Yrs.) _____
 Frequent (<3 Yrs.) _____
 Rating — 6

Approach Roadway Alignment (Item 72)
Speed Reduction at Bridge Approaches
 Not Required (8)
 Slight Reduction (G)
 Substantial Reduction (<=3)
Speed Reduction Required due to
 Vertical Alignment
 Horizontal Alignment
 Other _____
 Rating — 8

See reverse side for explanation of rating numbers.

Rating Code Descriptions

Traffic Safety Features (Item 36)

The four Traffic Safety Features are assigned a one-digit rating based on the following scale.

- 1 - Feature meets currently acceptable standards.
- 0 - Feature does not meet currently acceptable standards or feature is required but not provided.
- N - Not applicable or feature is not required.

General Features (Items 67, 68, 69, 71, and 72)

Items 67, 68, 69, 71, and 72 are assigned a one-digit rating based on the following scale.

- N - Not applicable.
- 9 - Superior to present desirable criteria.
- 8 - Equal to present desirable criteria.
- 7 - Better than present minimum criteria.
- 6 - Equal to present minimum criteria.
- 5 - Somewhat better than minimum adequacy to tolerate being left in place as is.
- 4 - Meets minimum tolerable limits to be left in place as is.
- 3 - Basically intolerable condition requiring high priority of corrective action.
- 2 - Basically intolerable condition requiring high priority of replacement.
- 1 - This value of rating code not used.
- 0 - Bridge closed.

Bridge Posting (Item 70)

Item 70 is assigned a one-digit rating based on the following scale.

- 5 - Operating rating equal to or above legal loading.
- 4 - Operating rating 0.1 to 9.9% below legal loading.
- 3 - Operating rating 10.0 to 19.9% below legal loading.
- 2 - Operating rating 20.0 to 29.9% below legal loading.
- 1 - Operating rating 30.0 to 39.9% below legal loading.
- 0 - Operating rating 39.9% or more below legal loading.

SCOUR VULNERABILITY EXAMINATION AND RANKING

DISTRICT / COUNTY / CSS: 18, 057, P00220-001
 ROUTE: Oaks North
 FEATURE CROSSED: Farmers Branch Cr.

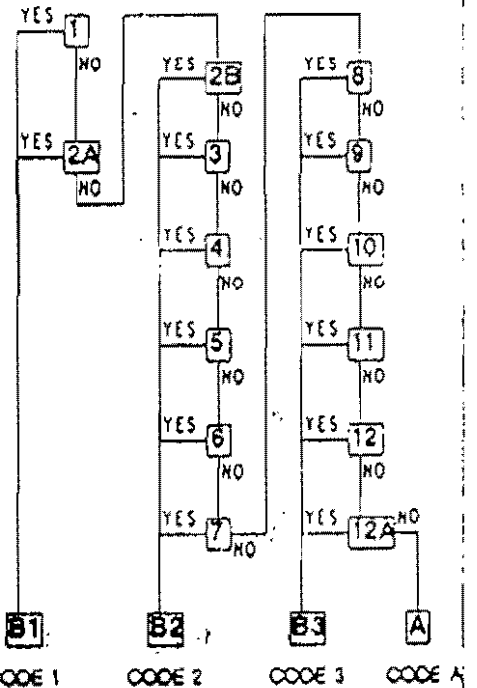
SCOUR VULNERABILITY RANKING

VULNERABILITY RANKING	CATEGORY	CODE	DESCRIPTION
B1	1		KNOWN SCOUR PROBLEM
B2	2		HIGH SUSCEPTIBILITY TO SCOUR
B3	3		MEDIUM SUSCEPTIBILITY TO SCOUR
A		A	LOW RISK

- ANSWER ALL QUESTIONS BY CIRCLING YES OR NO
- THEN USE THE FLOW CHART TO RANK THE BRIDGE IN THE APPROPRIATE CATEGORY.
- CODE THE HIGHEST RANKING IN CARD 8 COLUMN 80 (BRINSAP CODING ITEM 113.1)

NUMBERS IN DECISION BOXES REFER TO YES/NO QUESTIONS ON THE SCOUR VULNERABILITY EXAMINATION

START

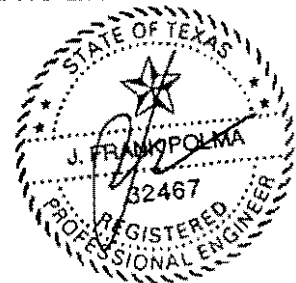


- IS THE HIGHWAY EMBANKMENT IN THE FLOODPLAIN CURRENTLY DAMAGED BY SCOUR THAT MIGHT THREATEN TRAVELLED LANES DURING A FLOOD? YES NO
- HAS SCOUR OCCURRED BELOW THE ORIGINAL GROUND LINE AT A PIER OR ABUTMENT, EITHER DURING OR AFTER A FLOOD TO A DEPTH OF
 - ...5 FEET OR MORE? YES NO
 - ...2 FT. TO 5 FT.? YES NO
- IS OTHER ACTIVE EROSION OR SCOUR EVIDENT ON STREAMBANKS OR IN THE CHANNEL BED WITHIN SIGHT DISTANCE OF THE BRIDGE EITHER UPSTREAM OR DOWNSTREAM? YES NO
- DOES THE BRIDGE HAVE ANY SPREAD FOOTING FOUNDATIONS NOT SUPPORTED BY PILES AND NOT ON SOLID ROCK? YES NO
- DOES THE BRIDGE TEND TO COLLECT LARGE AMOUNTS OF DRIFT OR DEBRIS DURING FLOODS? YES NO
- DOES THE BRIDGE OR APPROACH EMBANKMENT IN THE FLOOD PLAIN HAVE ANY HISTORY OF FLOOD DAMAGE? YES NO
- IS THE BRIDGE ON AN ALLUVIAL FAN OR IN AN ERODIBLE SAND BED CHANNEL? YES NO
- IS THE BRIDGE CROSSING LOCATED ON OR NEAR A SHARP BEND IN THE STREAM? YES NO
- IS THE BRIDGE LOCATED IN A STREAM WITHIN ONE MILE OF A CONFLUENCE OF ANOTHER MAJOR STREAM? YES NO
- IS ANY COMMERCIAL MATERIALS MINING, IN-STREAM BORROW AREAS, OR DREDGING FOR NAVIGATION OR FLOOD CONTROL LOCATED WITHIN ONE MILE OF BRIDGE EITHER UPSTREAM OR DOWNSTREAM? YES NO
- IS ANY BENT OR ABUTMENT SKEWED AGAINST THE PRIMARY DIRECTION OF FLOW AT FLOOD STAGE? YES NO
- IS SIGNIFICANT AGGRADATION (SILTING-UP) OCCURRING IN THE CHANNEL OR NEAR THE BRIDGE? YES NO
- IS ANY DAM LOCATED WITHIN ONE MILE OF BRIDGE EITHER UPSTREAM OR DOWNSTREAM? YES NO

DATE OF EXAMINATION: 4/22/96

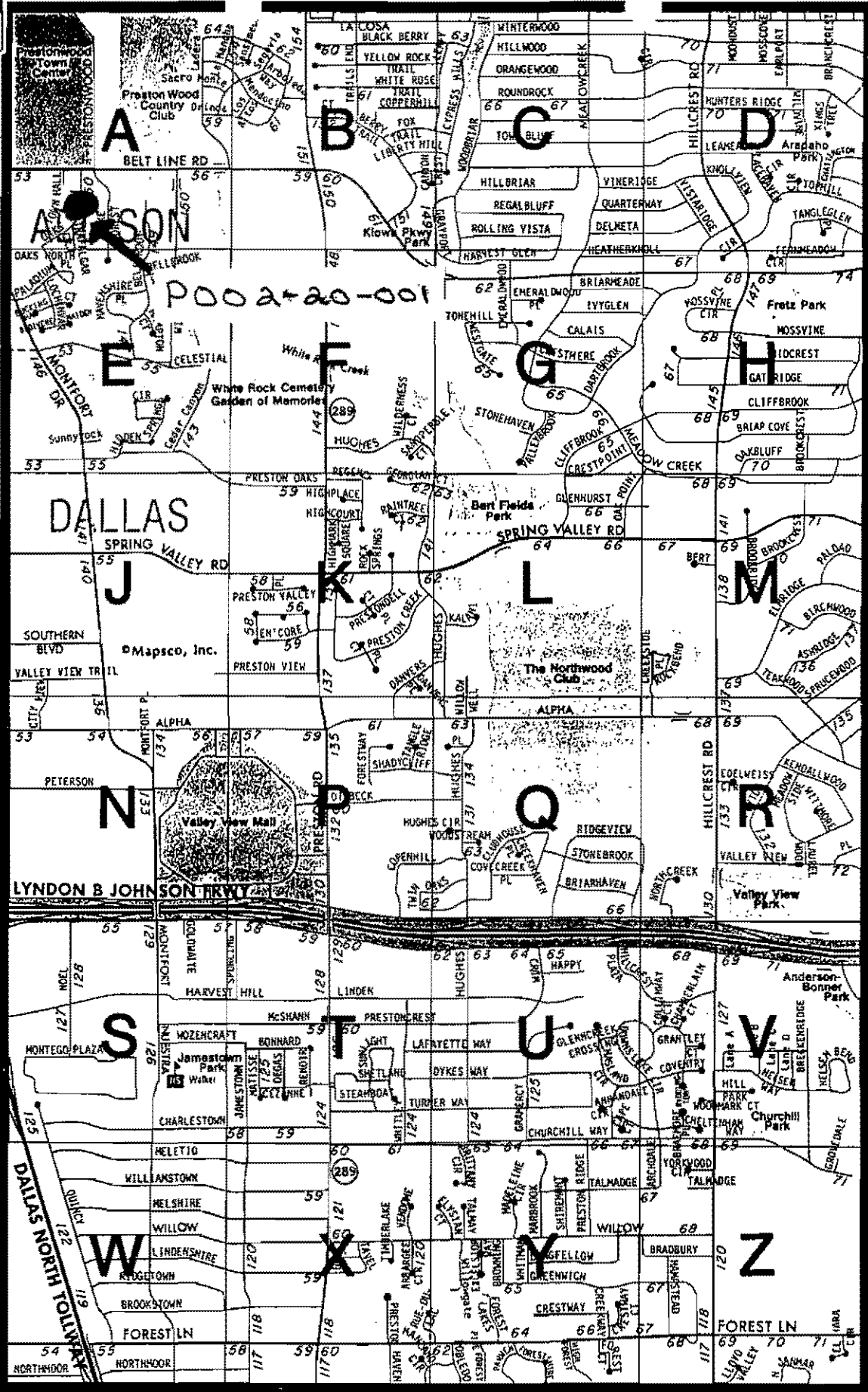
NAME/PHONE OF EXAMINER: J. Frank Polma

(214) 494-5031



TEXAS

DEPARTMENT OF TRANSPORTATION

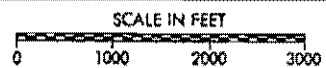


CONTINUED ON MAP 14

CONTINUED ON MAP 16

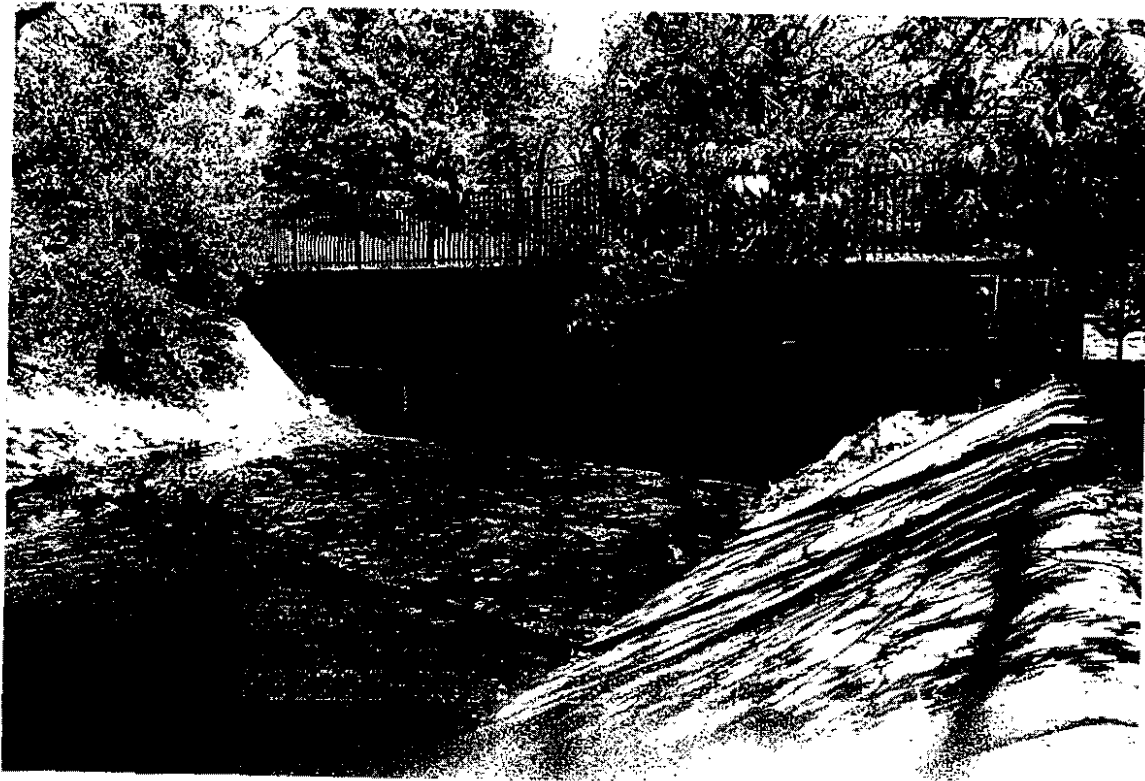


CONTINUED ON MAP 25



COUNTY:
BRIDGE NO:
LOCATION:

DALLAS OFF-SYSTEM
P00220-001
OAKS NORTH OVER
FARMERS BRANCH CREEK



COUNTY:
BRIDGE NO:
LOCATION:

DALLAS OFF-SYSTEM
P00220-001
OAKS NORTH OVER
FARMERS BRANCH CREEK

