

64C98

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S.20	28-S0-M-1	JODAVIESS	18	1

# INDEX OF SHEETS

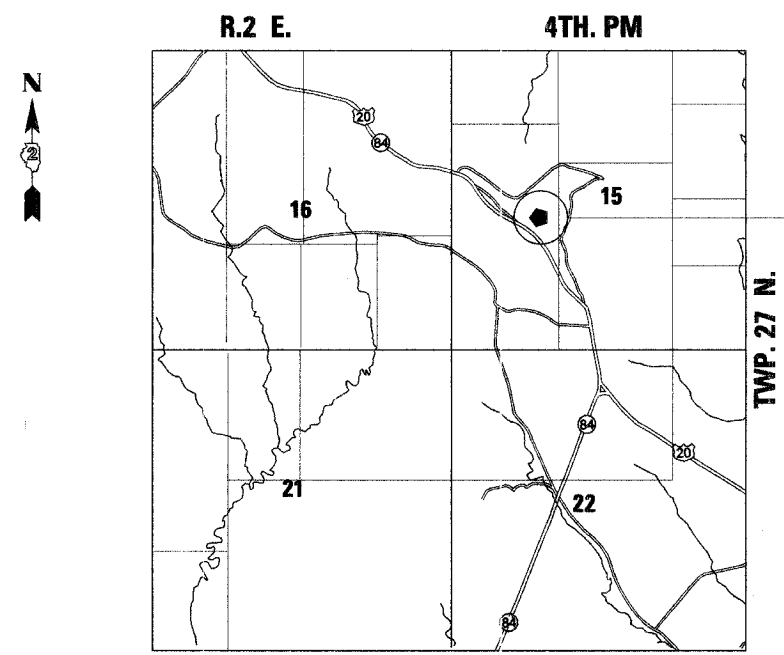
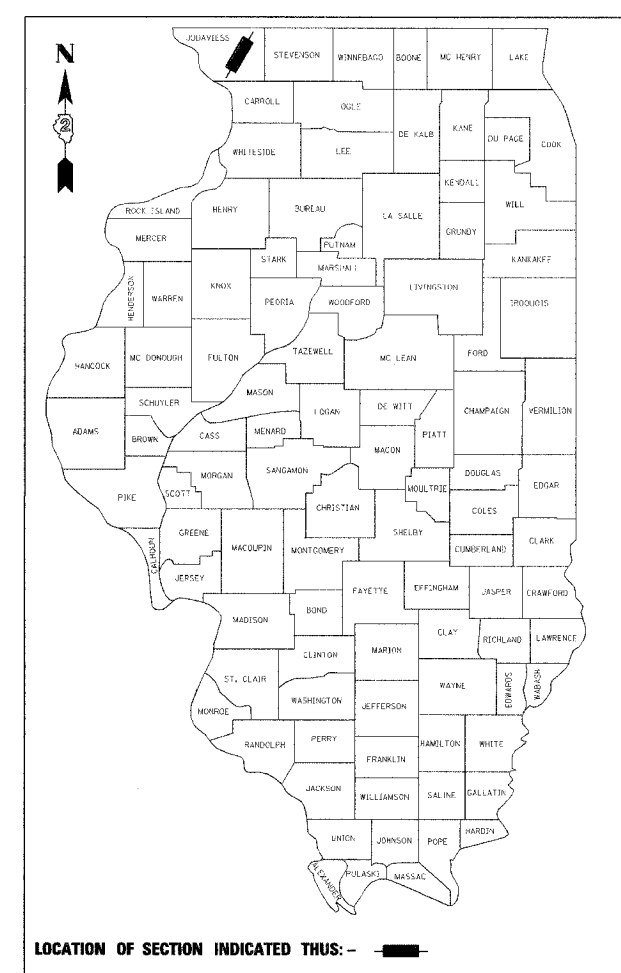
**SHEET NO. DESCRIPTION**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**PLANS FOR REPAIRS TO  
THE LONGHOLLOW SCENIC  
OVERLOOK REST AREA TOWER**  
LOCATED ALONG US 20, 1 MILE WEST OF IL 84 (S)

**FAP 301 (U.S. 20)  
SECTION 28-S0-M-1  
JODAVIESS COUNTY  
D-92-036-07 / C-92-039-07**



**LOCATION SKETCH**

**LONGHOLLOW SCENIC  
OVERLOOK TOWER REPAIR**



HAKIM H. TAIYEBI  
ILLINOIS LICENSED  
STRUCTURAL ENGINEER  
NO. 081-003266  
LICENSE EXP. 11-30-08

JULIE 1-800-892-0123

**DISTRICT 2.  
TOWNSHIP: GALENA  
CONTRACT NO. 64C98  
JOB NO. D-92-036-07/C92-039-07**

**PLANS PREPARED BY: SOODAN & ASSOCIATES, INC.**  
100 NORTH LASALLE ST., SUITE 1900  
CHICAGO, ILLINOIS 60602

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

SUBMITTED Dec 22 2006

[Signature]  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 2, 2007  
Eric E. Harau  
ENGINEER OF DESIGN AND ENVIRONMENT

February 20 07  
Milton R. Sean P.E./R  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 02 18 SHEETS
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	2	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT # 64C98		

SUMMARY  
OF QUANTITIES

100% STATE  
YOZ1

CODE NO.	ITEM	UNIT	QUANTITY
* X0325688	Onsite Application of Preservative Treatment and Stain	L Sum	1
* X0325689	Removal of Existing Timber Members	L Sum	1
50700105	Treated Timber	F.B.M.	4546
50501120	Structural Steel Removal	L Sum	1
50500105	Furnishing and Erecting Structural Steel	L Sum	1
50901760	Pipe Handrail	Foot	312
* X0325687	Temporary support and safety system	L Sum	1

\* See Special Provisions.

GENERAL NOTES:

- The Contractor shall verify all dimensions, elevations and measurements at the job site. Any discrepancy between the drawings and the condition of the structure shall be immediately brought to the attention of the engineer. No work shall proceed until such discrepancy has been rectified.

The location and extent of repair items are based on visual observations made during field inspections, and are not guaranteed to be accurate or all inclusive. The location, extent and quantity of repair shall be verified by the field engineer.

Plan dimensions and details relative to existing plans are subject to routine variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variation shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid the quantity actually furnished based upon the unit price bid for the work.

- All fasteners used with treated wood products shall be hot-dipped galvanized according to AASHTO M 232, Class C, except the minimum weight (mass) of zinc coating shall be 2.0 oz/sq ft
- Screw Type Fastening shall be screwed into precored Lead Holes. Fasteners shall be screwed into place for the entire length of the fastening. Driving with a Maul or other tool will not be permitted.
- Apply Onsite Application of Preservative Treatment and Stain (See Special Provisions) to the entire wooden structure.
- The Contractor shall submit detail plans and calculations of proposed temporary support systems & procedures for removal & replacement of hangers & beams to the Engineer for approval, prior to commencing any work at the tower. The system shall be designed and sealed by a Structural Engineer licensed in Illinois. Approval will not relieve the Contractor of responsibility for the safety of the structure.
- Any damage to the existing structure during the process shall be repaired or replaced at no additional cost.
- The existing Structure does not address life safety requirements of the Americans With Disabilities Act (ADA), the Illinois Accessibility Code (IAC), the International Building Code (IBC), or any other applicable life safety codes.
- It is the responsibility of the Contractor to comply with all applicable City, County, State and Federal Laws, Including the Occupational Safety and Health Act (OSHA) and Regulations adopted Pursuant thereto.
- Cost of Replacement of existing fasteners that are either rusted, damaged or have missing parts is included with Furnishing and Erecting Structural Steel.
- Calculated Weight of Structural Steel = 1200 lbs.
- North Arrow shown on Existing plans on Sheets 13 to 15 of 18 is incorrect. Correct North Arrow is shown on Sheets 4 & 5 of 18.

MATERIAL

**TIMBER:** Treated Southern Pine or Douglas Fir (Select Structural Grade or Better)

**MIN. WORKING STRESSES:**

Extreme Fiber in Bending	Fb	1500 psi
Tension Parallel to Grain	Ft	1000 psi
Shear Parallel to Grain,	Fv	175 psi
Modulus of Elasticity	E	1,900,000 psi

**STRUCTURAL STEEL:**

(For L's and Plates)

Angle	ASTM A572	Grade 50 (Fy=50 ksi)
Plate	ASTM A572	Grade 50 (Fy=50 ksi)
Pipe	ASTM A53	Grade B (Fy=35 ksi)
Bolts	ASTM-307	Grade C

LOADING

Roof Live Load = 30 psf  
Platform Live Load = 100 psf  
Ice Load = 1/2" Thick Over All Members

SPECIFICATIONS

**DESIGN:**  
National Design Specifications for Wood Construction, 2005  
Manual of Steel Construction, ASD, 9th Ed., 1989

**CONSTRUCTION:**  
IDOT Standard Specifications for Road & Bridge Construction, 2007  
IDOT Supplemental Specifications & Recurring Special Provisions  
Additional Special Provisions

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

GENERAL NOTES & BILL OF MATERIAL  
LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S. RT. 20), SECTION 28-50-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006  
**Soodan**  
Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602

**Existing Structure:**

Wooden Scenic Tower was built in 1983 - 84 by IDOT. The total tower height to the top of the roof is 75'-6" above ground level and located above sea level at 1069.5'. Top, middle & bottom viewing levels are located at 60', 40' & 20' above ground level.

Main supporting poles are made of Treated Mississippi Southern Pine class H-2, set in 3 foot diameter anchors 11 feet deep with 3 rock anchors each. Center pole size is 74' while the corner poles are 71'-6"

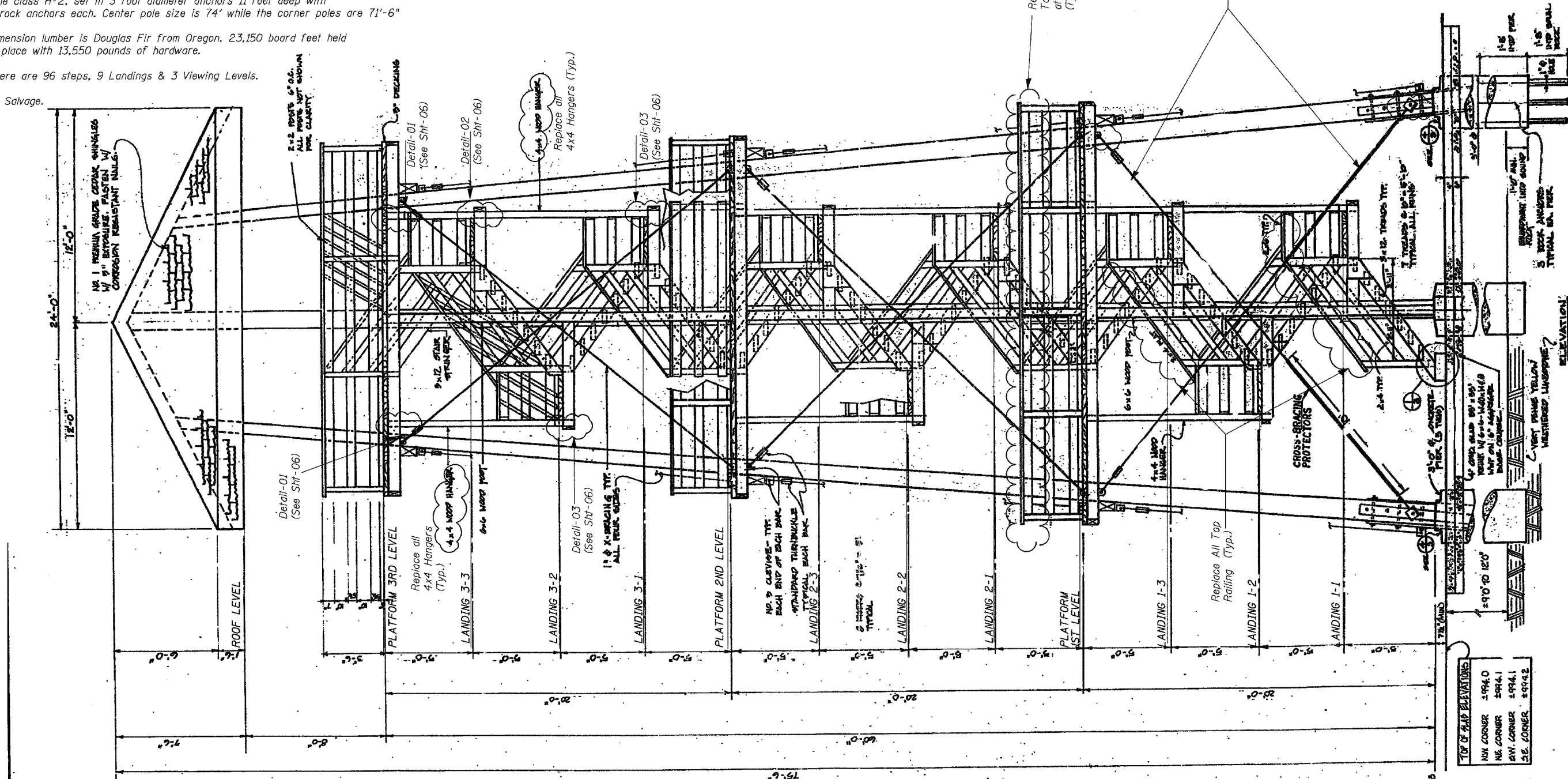
Dimension lumber is Douglas Fir from Oregon. 23,150 board feet held in place with 13,550 pounds of hardware.

There are 96 steps, 9 Landings & 3 Viewing Levels.

No Salvage.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 03 18 SHEETS
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	03	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- CONTRACT # 64C98					



**SCOPE OF WORK**

1. Treat the existing wooden structure with a water based preservative to avoid further drying out and grain splitting as per Special Provisions.
2. Replace all 4"x4" hanger supports and 3"x8" connecting beams at the landing levels.
3. Replace all split and cracked beams at platform levels and roof.
4. Replace all top rails at the platform levels.
5. Replace all existing steel fasteners that are either rusted, damaged, or have missing parts.
6. Tighten all cross bracing metal rods.
7. Replace all damaged stair railing posts.
8. Replace all top rails along the stairs and add a new steel handrail system for safety.

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

**TOWER ELEVATION**  
LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S. RT. 20), SECTION 28-50-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006

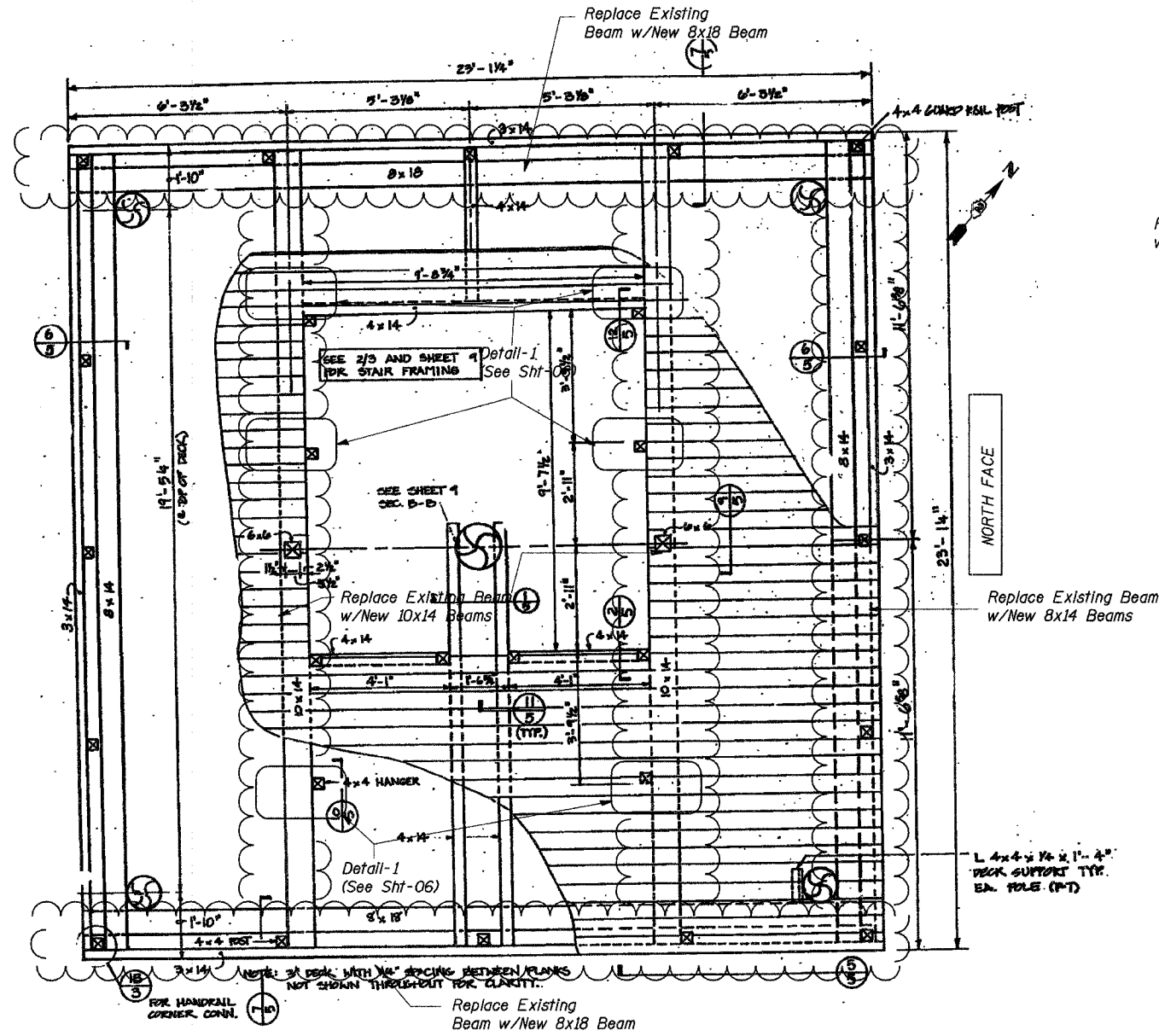
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Chicago, Illinois 60602

ELEVATION- EXISTING SCENIC TOWER  
(NOT TO SCALE)

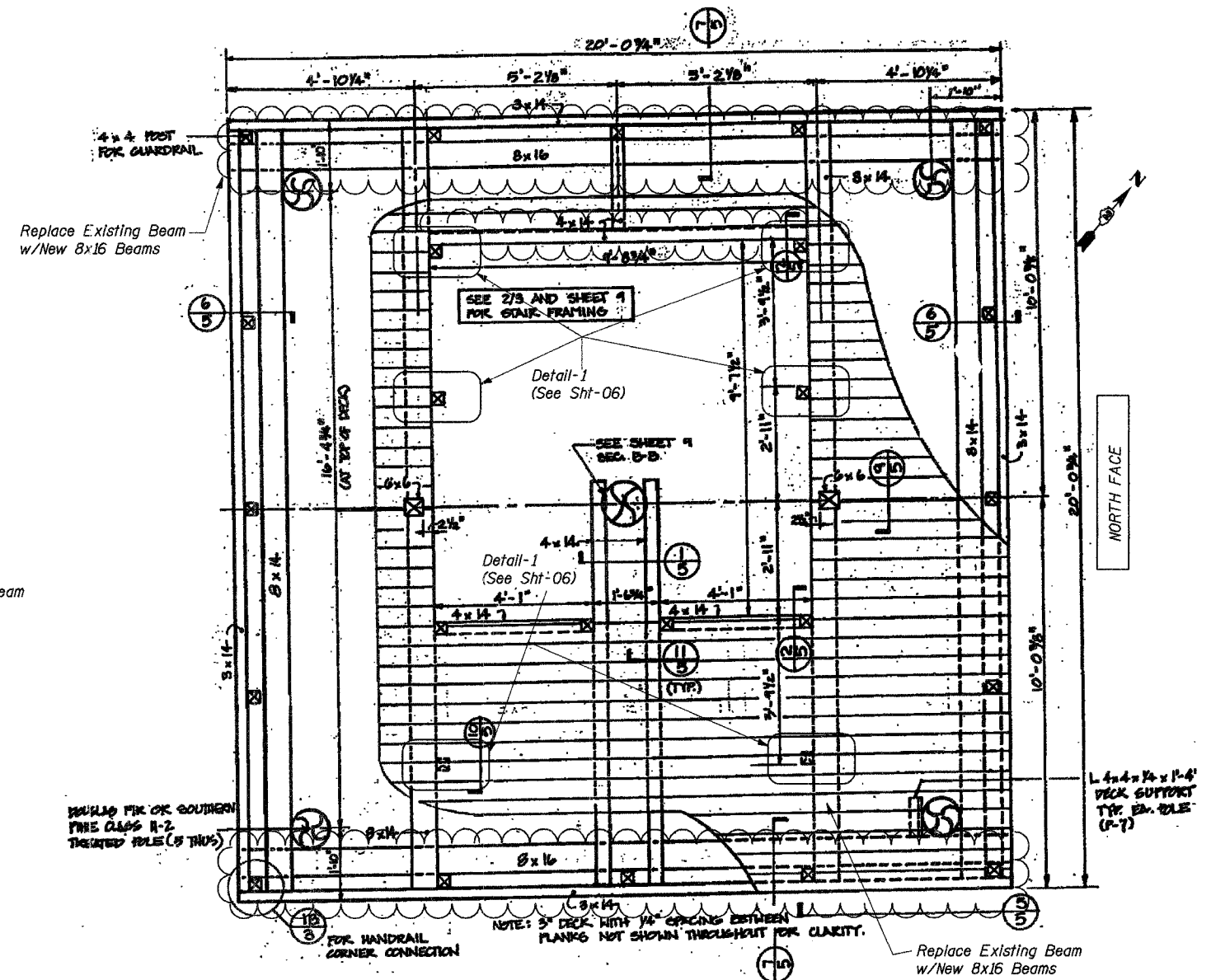
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	04
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-				
CONTRACT # 64C98				

SHEET NO. 04  
18 SHEETS



EXISTING FIRST LEVEL PLATFORM FRAMING PLAN



EXISTING SECOND LEVEL PLATFORM FRAMING PLAN

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

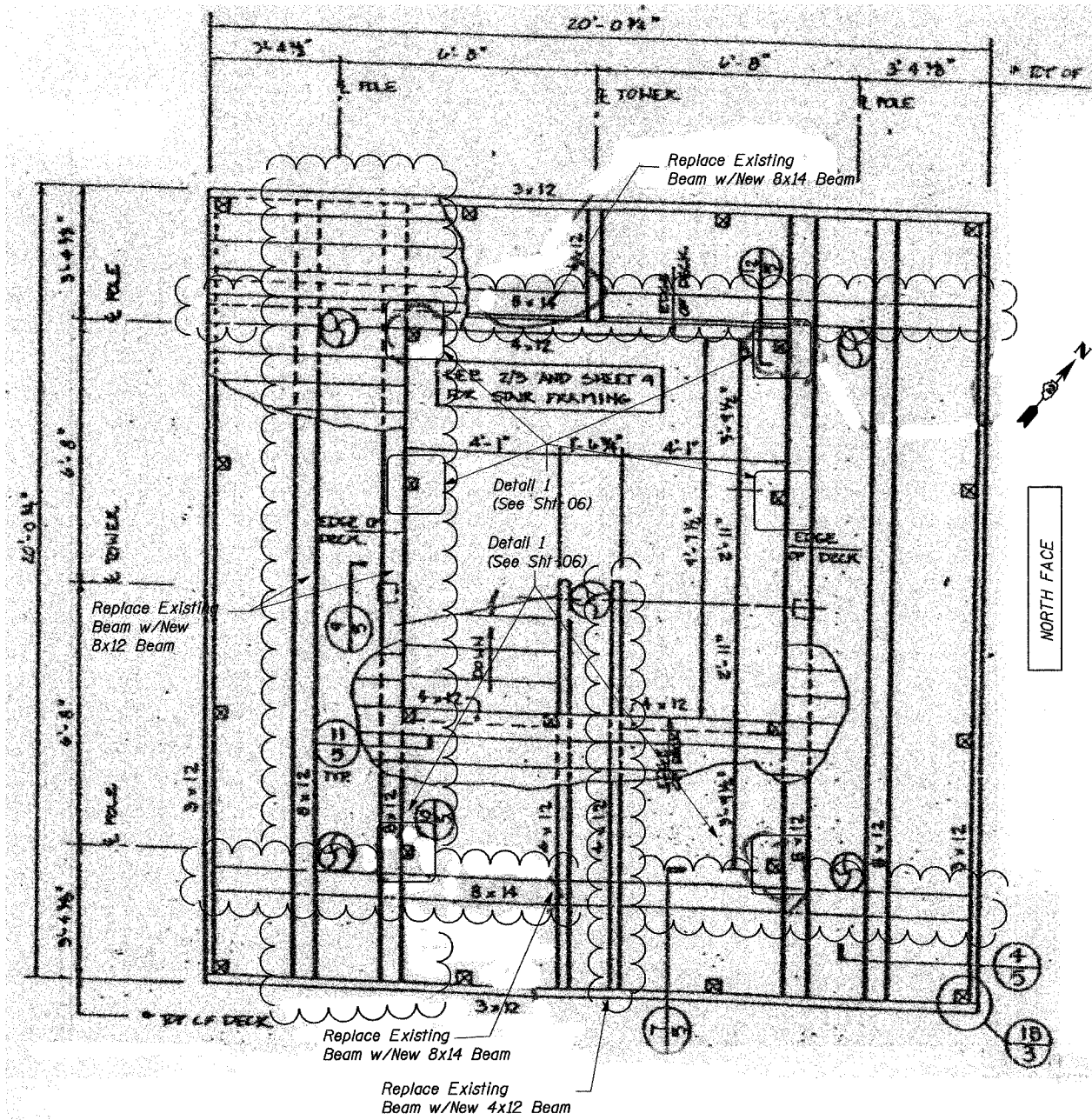
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(1 OF 2)  
LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S. RT. 20), SECTION 28-50-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006  
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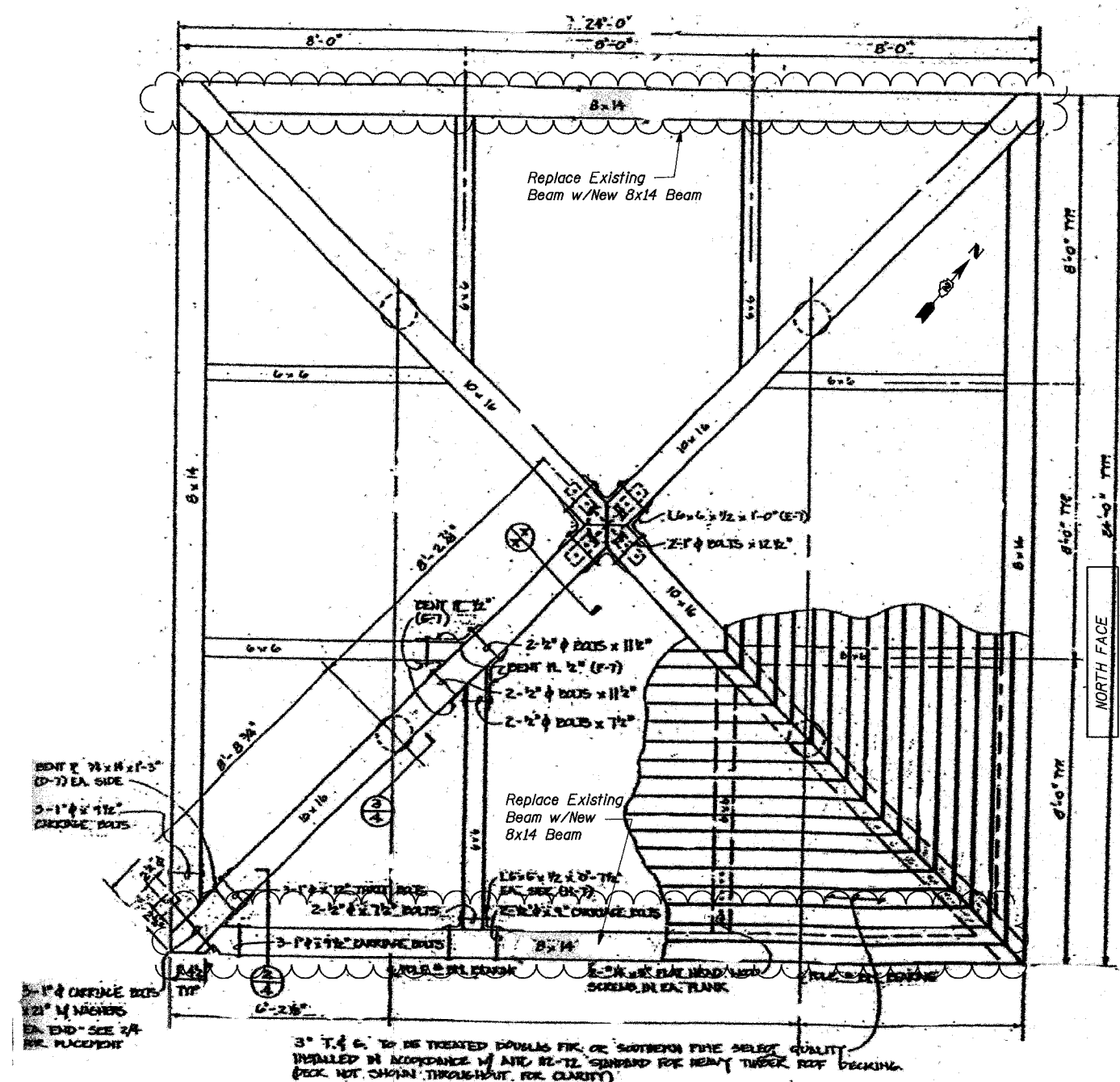


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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 05 18 SHEETS
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	05	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT - CONTRACT # 64C98					



EXISTING THIRD LEVEL PLATFORM FRAMING PLAN



EXISTING ROOF FRAMING PLAN

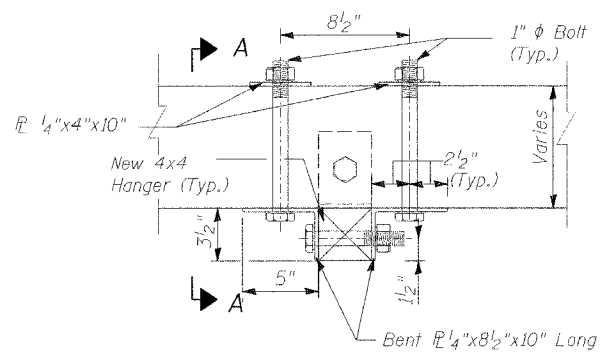
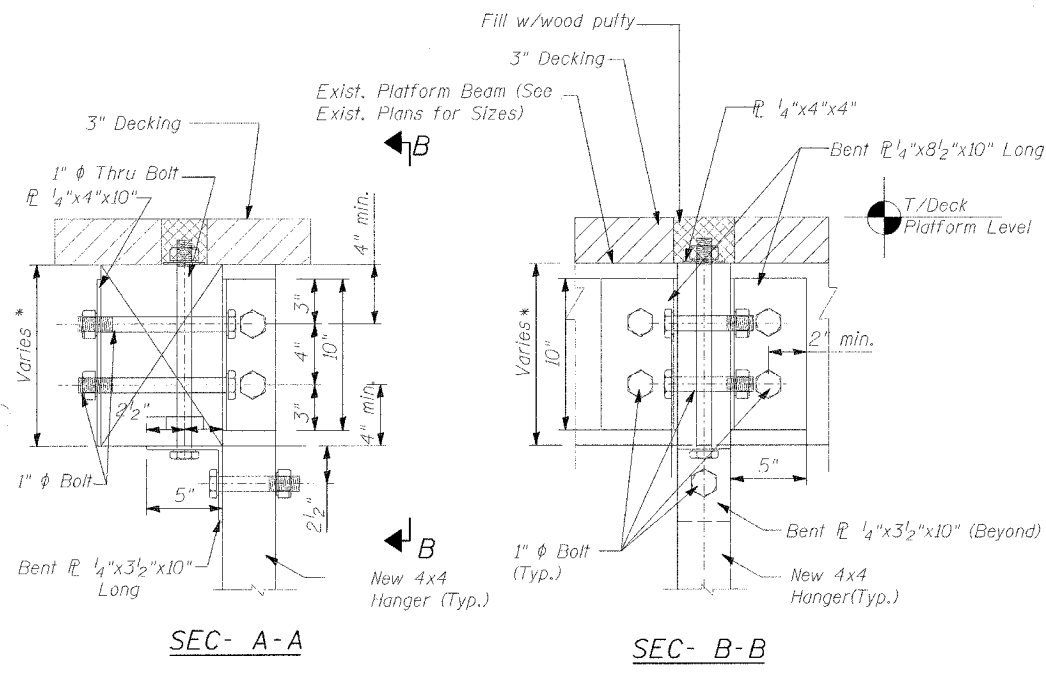
DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

PLATFORM FRAMING PLAN & REPAIR DETAILS  
(2 OF 2)  
LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S. RT. 20), SECTION 28-50-M-1  
JODAVIESS COUNTY

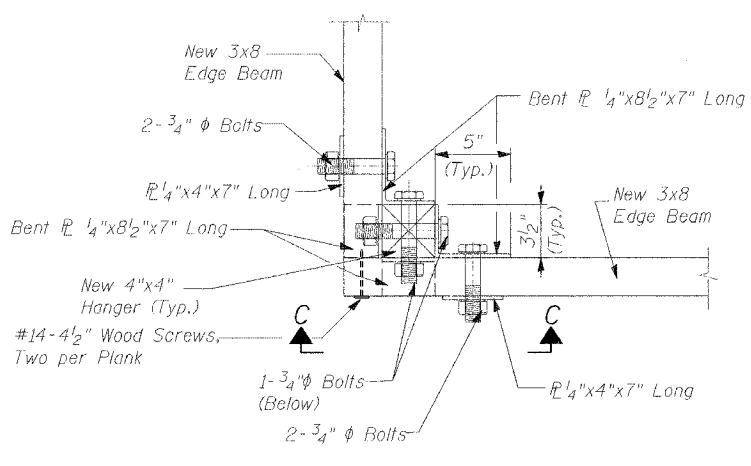
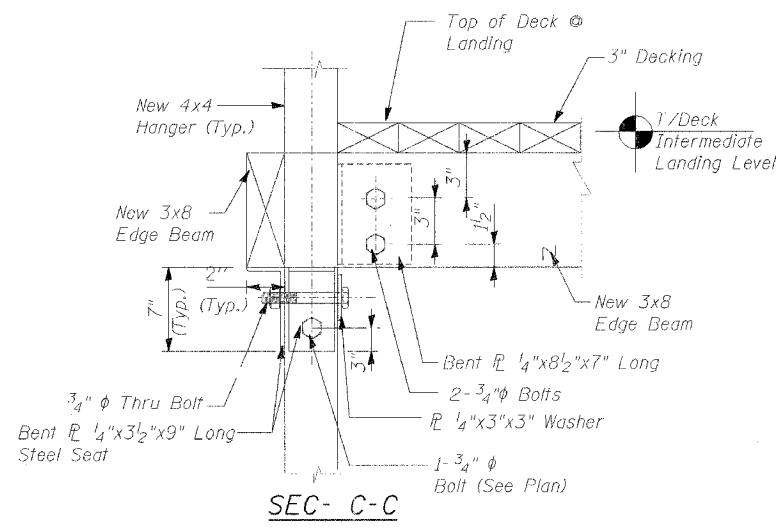
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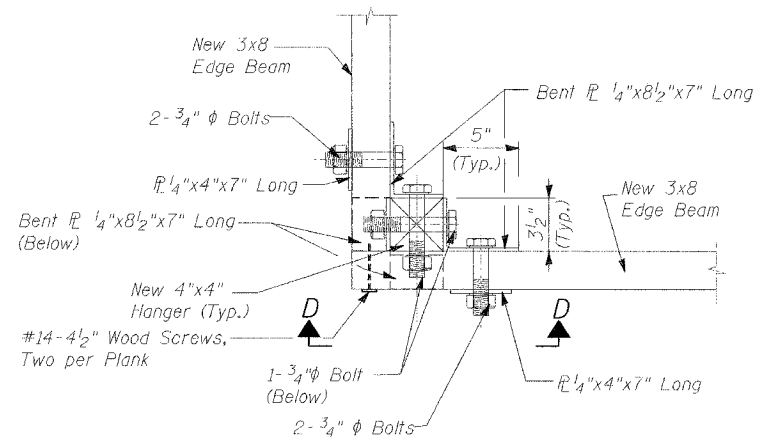
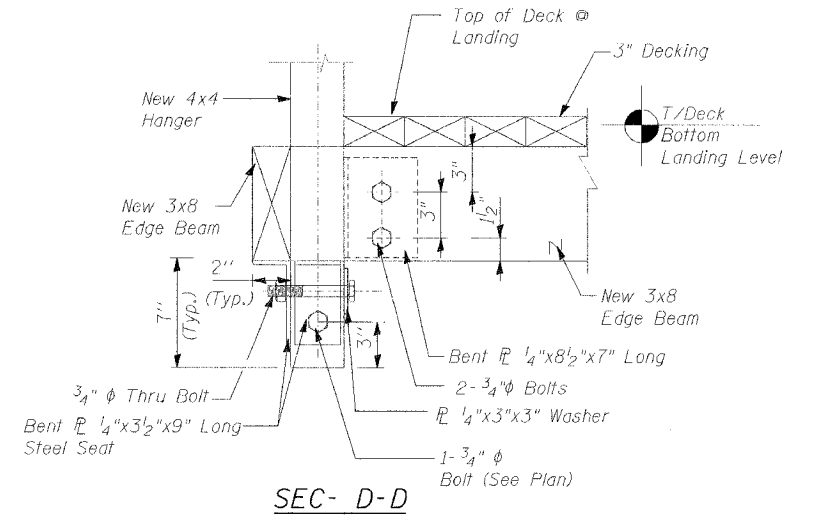
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U.S. 20	28-SO-M-1	JODAVIESS COUNTY	18	06	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT # 64C98		



**DETAIL-1**  
 (HANGER CONNECTION AT TOP)  
 \* Beam depths vary at Platform Level 1, 2 & 3.



**DETAIL-2**  
 (HANGER CONNECTION AT INTERMEDIATE LANDING)



**DETAIL-3**  
 (HANGER CONNECTION AT BOTTOM LANDING)

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

**Notes:**  
 1. All Steel members and connections shall be Hot Dipped Galvanized.

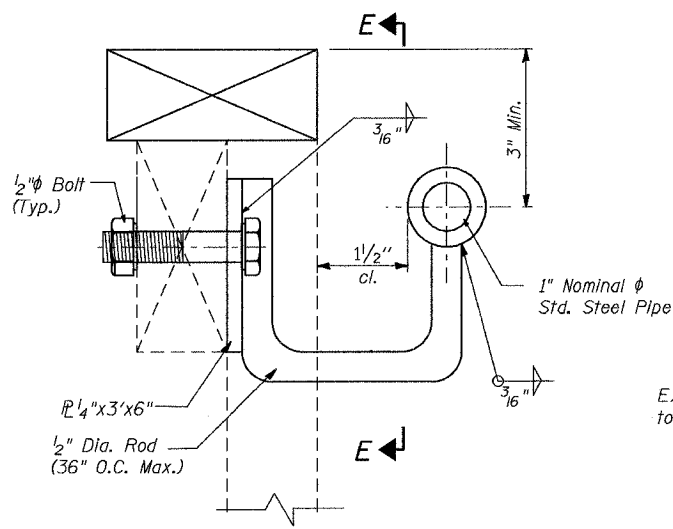
CONNECTION DETAILS (1 OF 2)  
 LONGHOLLOW SCENIC OVERLOOK REST AREA  
 TOWER REPAIRS  
 FAP RT. 301 (U.S. RT. 20), SECTION 28-SO-M-1  
 JODAVIESS COUNTY

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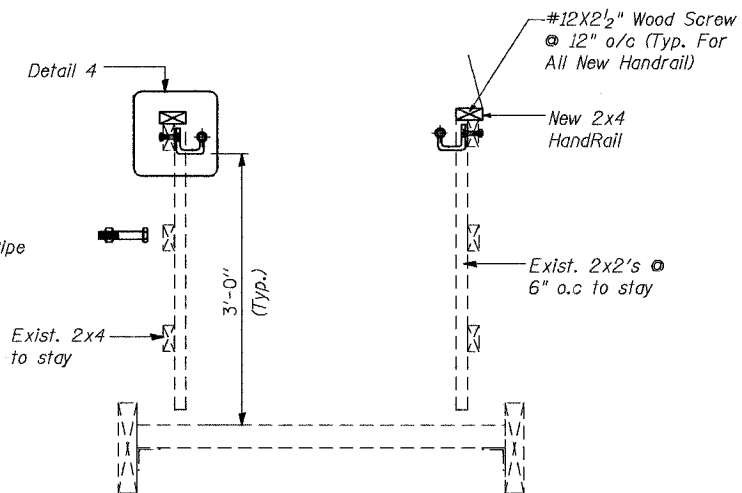
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DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT -	

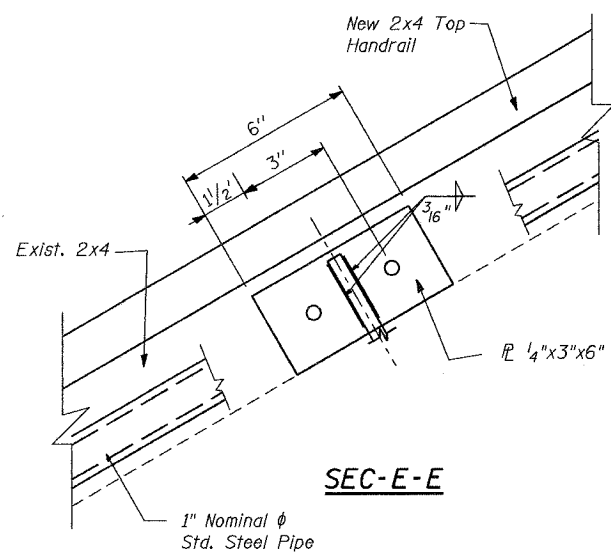
CONTRACT # 64C98



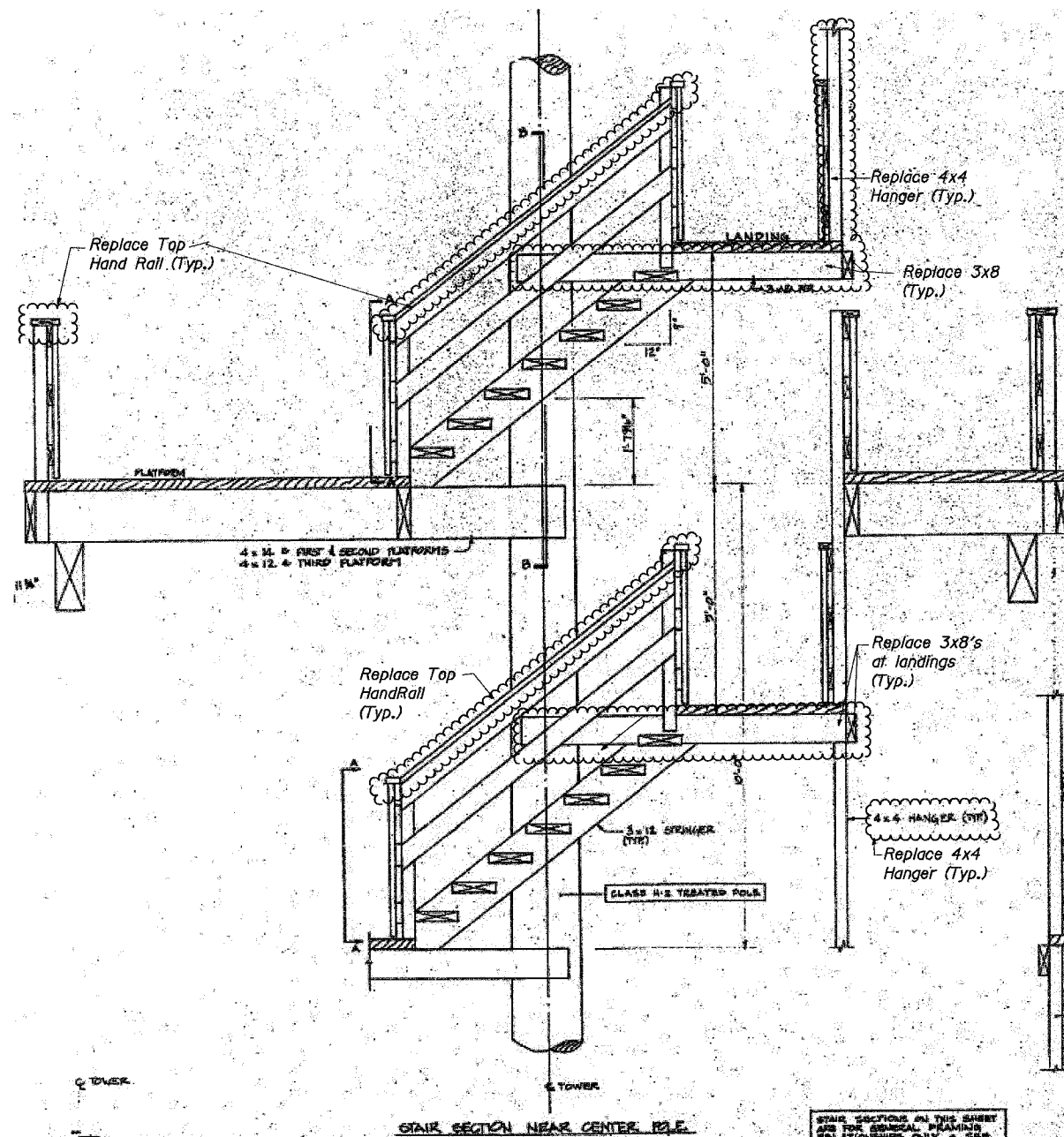
**DETAIL-4**  
(Typ. Hand Rail Detail)



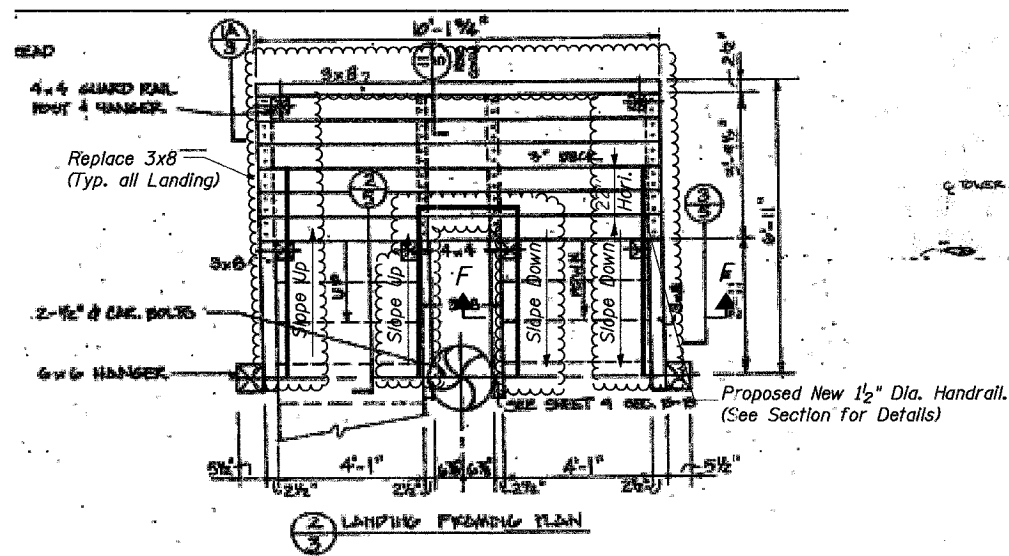
**SEC- F-F**



**SEC-E-E**



**STAIR SECTION NEAR CENTER POLE**



**LANDING FRONT VIEW**

Proposed New 1/2" Dia. Handrail.  
(See Section for Details)

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

CONNECTION DETAILS (2 OF 2)

LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S. RT. 20), SECTION 28-50-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006

**Soodan**

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Chicago, Illinois 60602



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 08 18 SHEETS
U.S. 20	PB-50-M-1	JODAVIESS COUNTY	18	08	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		CONTRACT # 64C98

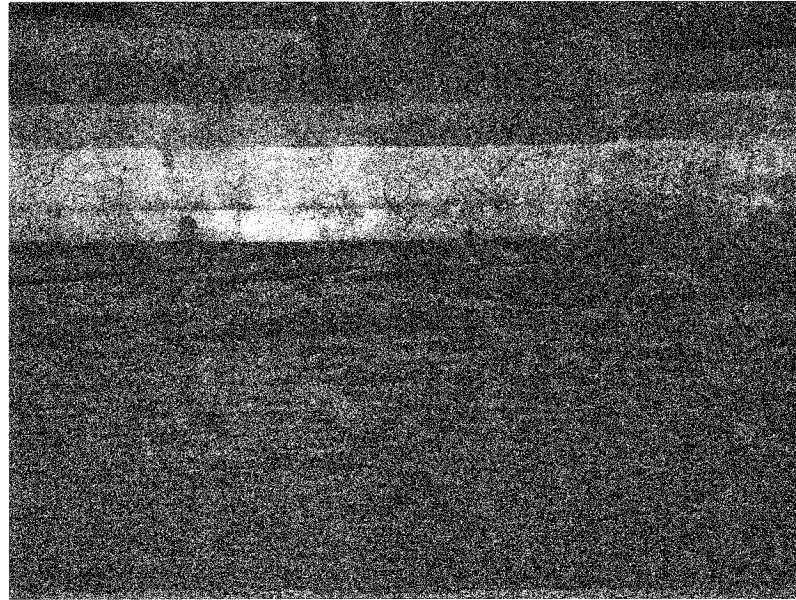


Photo 01- (Roof) Horizontal Crack in 8"x14" Main Supporting Beam

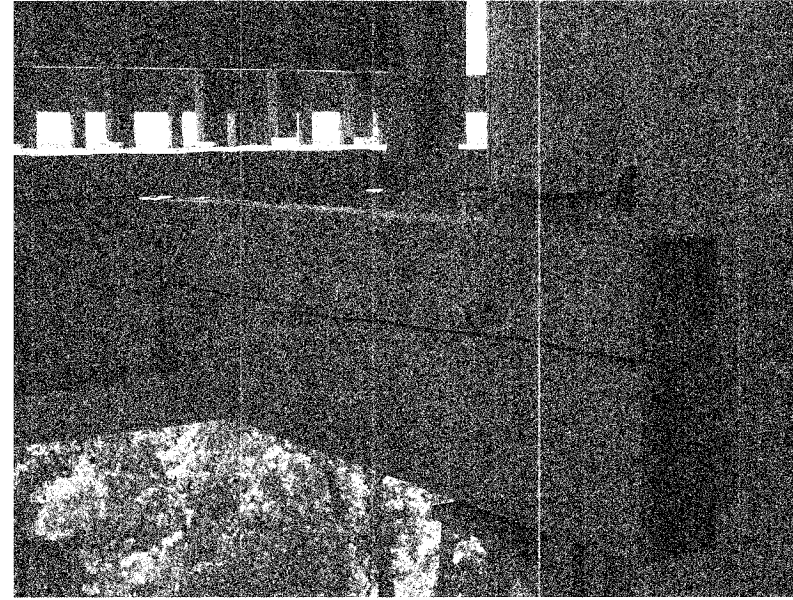


Photo 03- (Third Level) 4"x12" Beam at North of Center Pole Showing Horizontal Cracks at Mid Depth for the Full Length



Photo 05- Wood Treatment leaching out of the Tower Structure and accumulating at Pole Base.

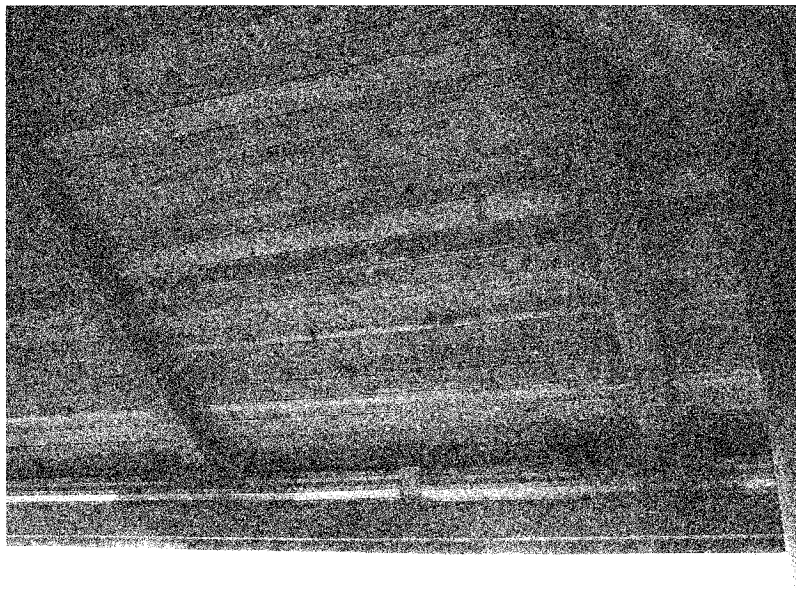


Photo 02- Underside of Roof Deck

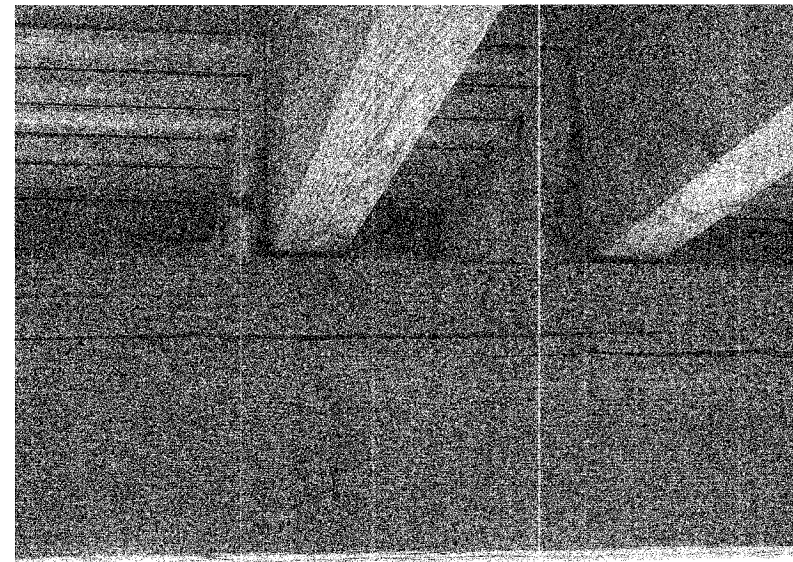


Photo 04- (Third Level) 8"x12" Beam at East and West Side showing Horizontal Cracks at Mid Depth for the Full Length

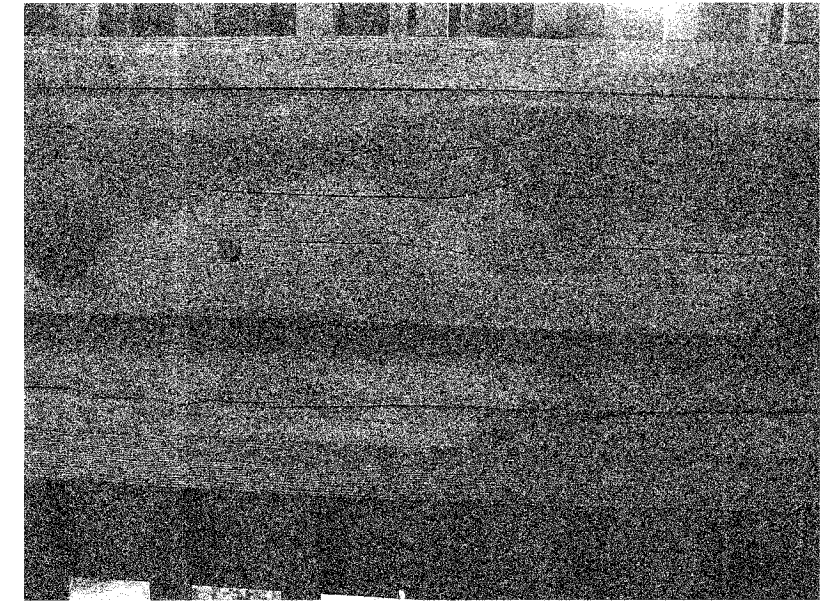


Photo 06- (Third Level) 8"x12" Beam at West side showing Horizontal Cracks at Mid Depth for the Full Length.

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DRAWN	R.A.
CHECKED	H.T./M.R.

FOR COLOR PHOTOS WITH BETTER RESOLUTION  
CONTACT MAHMOUD ETEMALDI (815)284-5393

PHOTOSHEET 1 OF 5

LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S RT. 20), SECTION 28-SO-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006  
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Chicago, Illinois 60602



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 09
U.S. 20	28-SO-M-1	JODAVIESS COUNTY	18	09	18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		CONTRACT # 64C98	

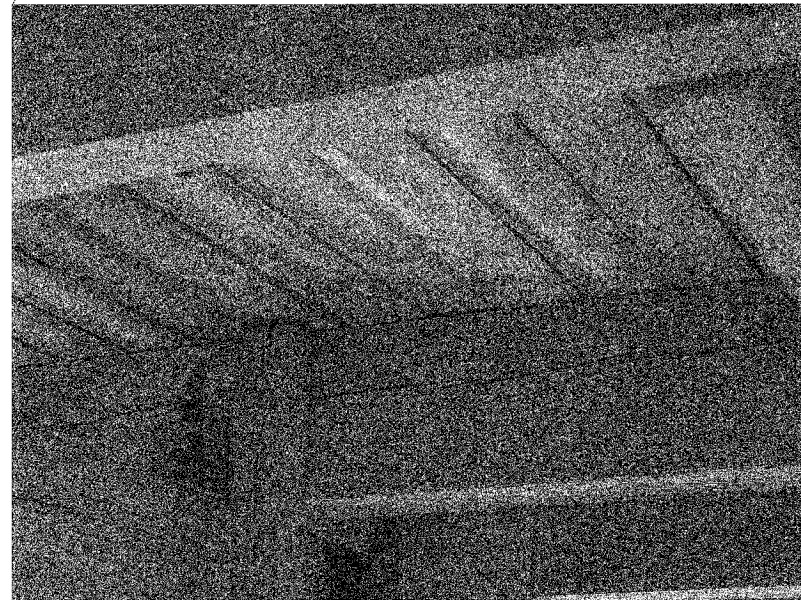


Photo 07 - (Third Level) 8"x12" Beam at South Side showing Horizontal Cracks at Mid Depth for the Full Length.



Photo 09- (Second Level) 8"x16" Beam at East Side showing Horizontal cracks at Mid Depth for the Full Length

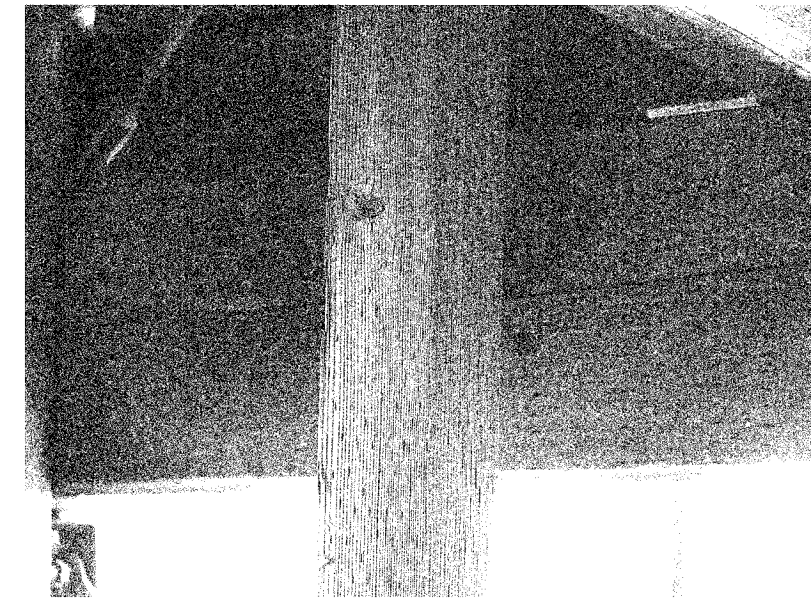


Photo 11 - (Second Level) 8" x 16" Beam at East Side Showing Horizontal Cracks at Mid Depth for the Full Length

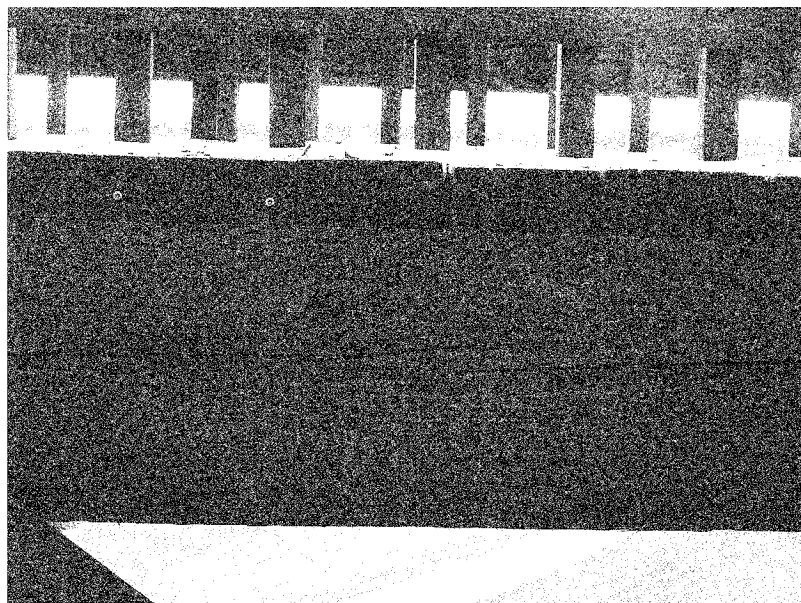


Photo 08- (Third Level) 8" x 12" Beam at South side Showing Horizontal Cracks at Mid Depth for the Full Length.

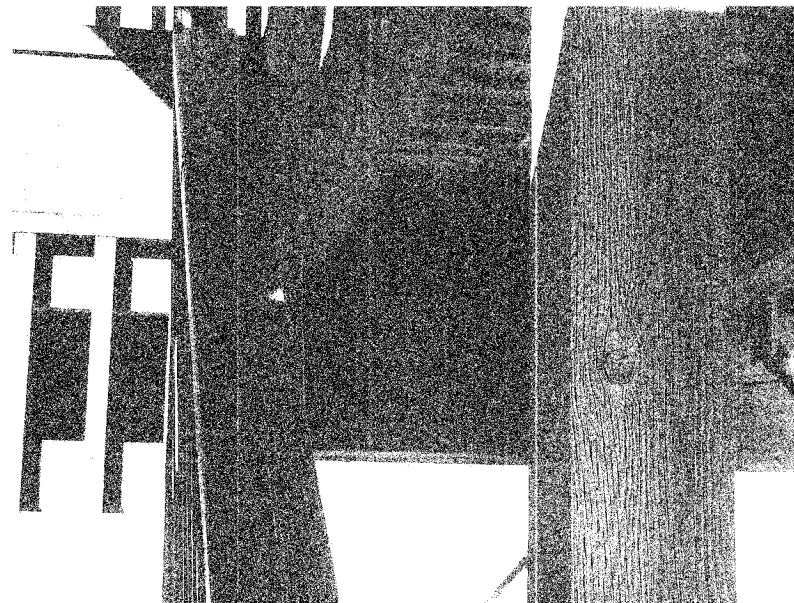


Photo 10 - (Second Level) 8"x16" Beam at East and West Side showing Horizontal Cracks at Mid Depth for the Full Length

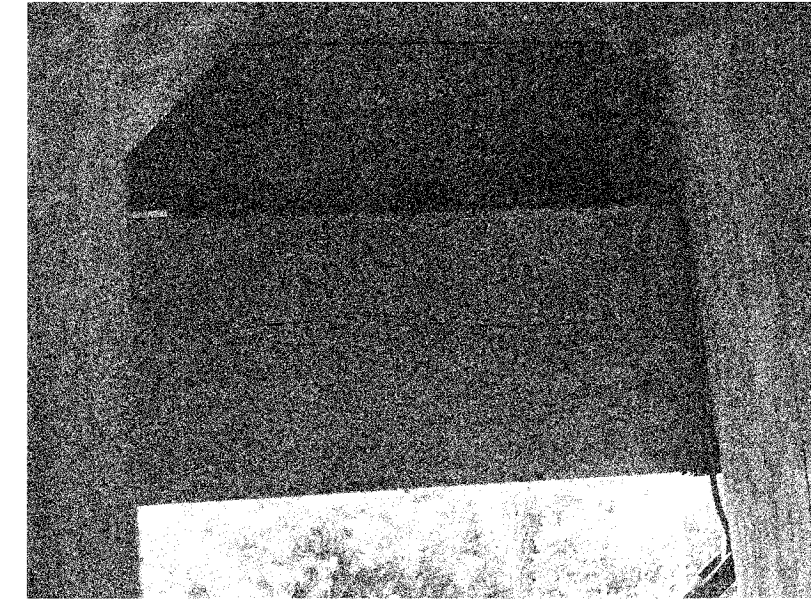


Photo 12 - (Second Level) 8"x16" Beam at West side showing Horizontal Craks at Mid Depth for the Full Length.

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

FOR COLOR PHOTOS WITH BETTER RESOLUTION  
CONTACT MAHMOUD ETEMALDI (815)284-5393

PHOTOSHEET 2 OF 5

LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S RT. 20), SECTION 28-SO-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006  
Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	10	18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		CONTRACT # 64C98

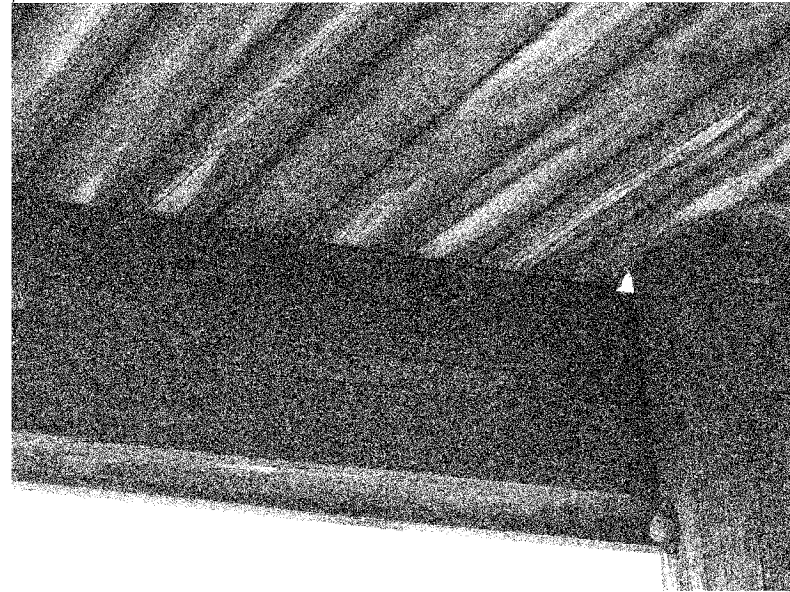


Photo 13 - (First Level) 8"x14" Edge Beam at North Side showing Horizontal Cracks at Mid Depth for the Full Length.

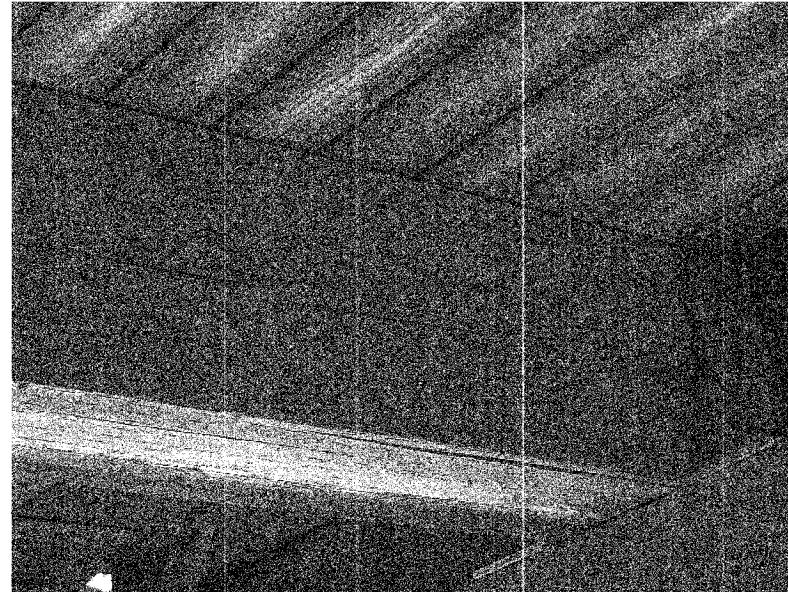


Photo 15 - (First Level) 10"x14" Intermediate Floor Beam at North Interior edges showing Horizontal cracks at Mid Depth for the Full Length

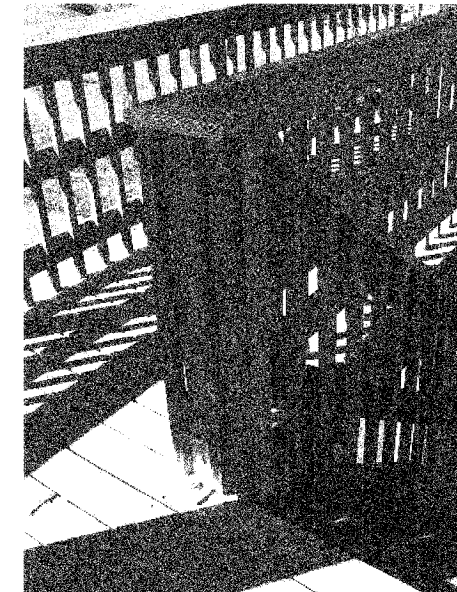


Photo 17 - Loose Railing End Posts (Typical)

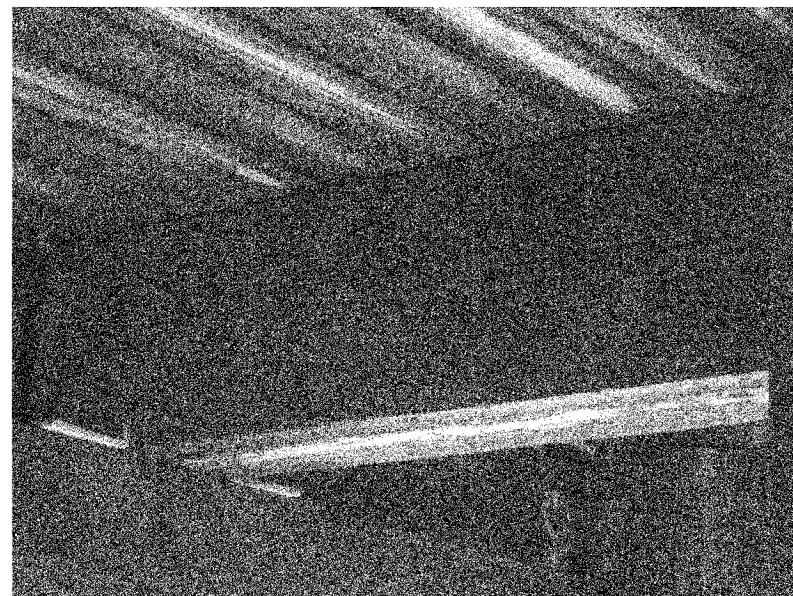


Photo 14 - (First Level) 10" x 14" Intermediate Floor Beam at South Interior edges of landing showing Horizontal cracks at Mid Depth for the Full Length.



Photo 16 - Railing Showing very Rough surface and Loose Splinters



Photo 18 - Split Hanger at Top Support (Typical)

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

FOR COLOR PHOTOS WITH BETTER RESOLUTION  
CONTACT MAHMOUD ETEMALDI (815)284-5393

PHOTOSHEET 3 OF 5

LONGHOLLOW SCENIC OVERLOOK REST AREA  
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FAP RT. 301 (U.S. RT. 20), SECTION 28-50-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006  
Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 18 SHEETS
U.S. 20	28 SO-M	JODAVIESS COUNTY	18	11	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT # 64C98		

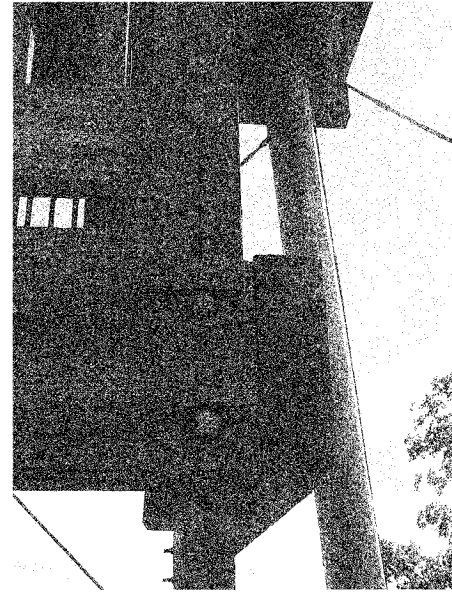


Photo 19 - Vertical Crack at the Middle of the Hanger Section to some distance away from the Support.

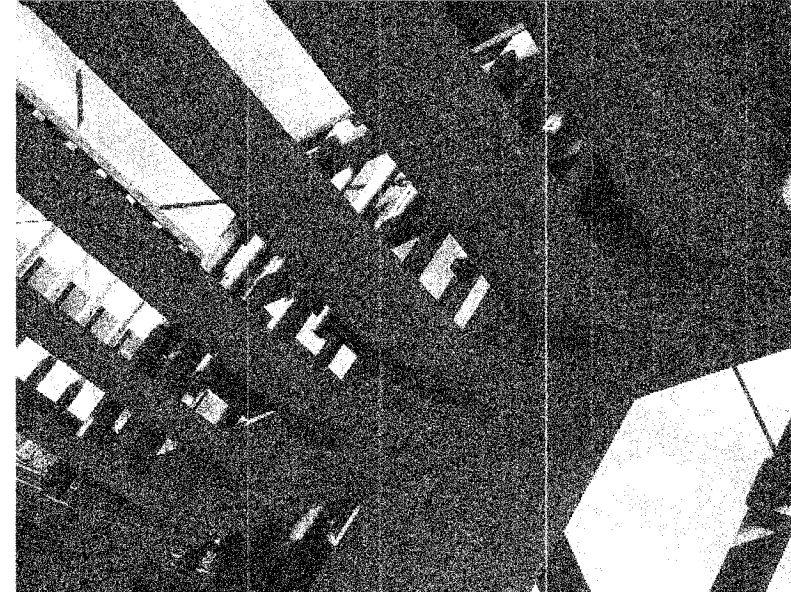


Photo 21 - Stair Stringer (Typical)

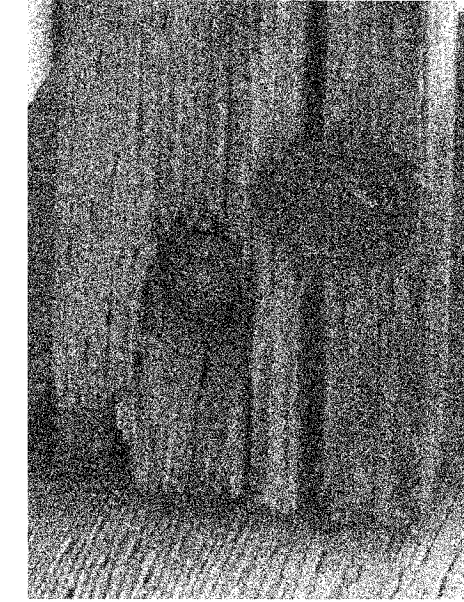


Photo 23 - Deteriorated member-to-member end connection with missing washers.

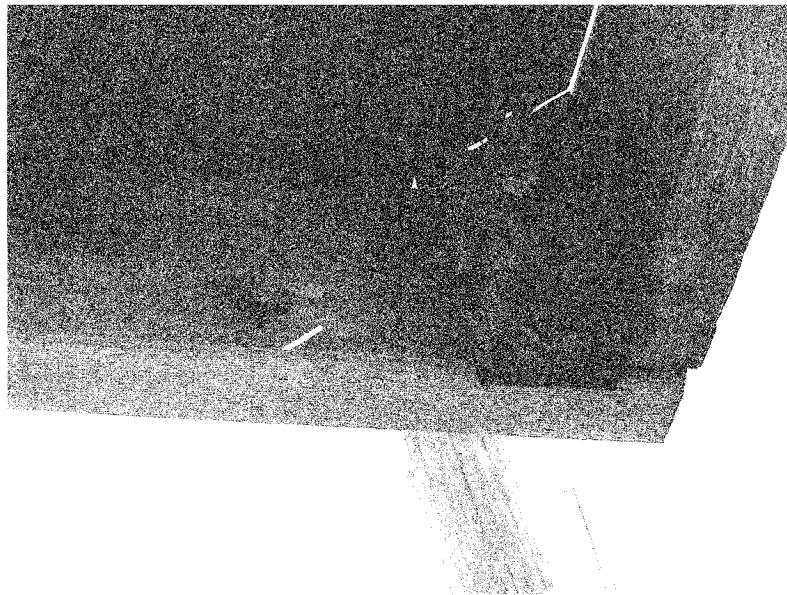


Photo 20 - Hanger Detail Connection at landing showing split wood and Rusted Washers.

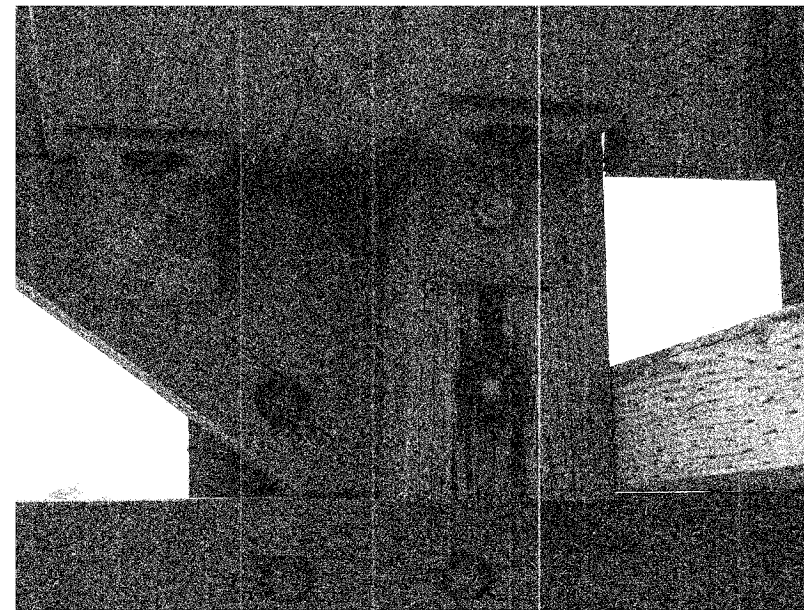


Photo 22 - Stair Railing Posts with cracks at Connection location (Typical)

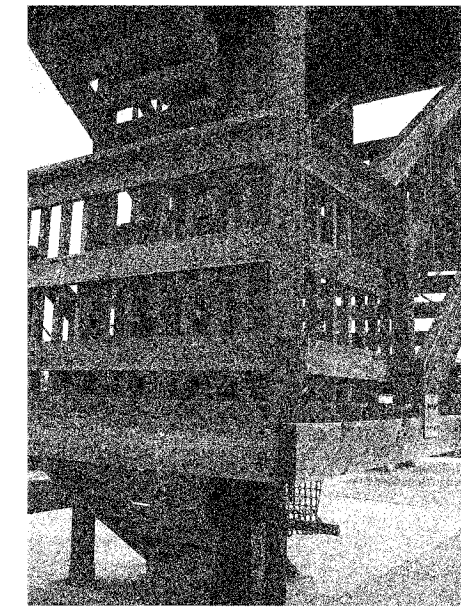


Photo 24 - Deterioration in Member-to-Member Connection with missing Washers.

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

FOR COLOR PHOTOS WITH BETTER RESOLUTION  
CONTACT MAHMOUD ETEMALDI (815)284-5393

PHOTOSHEET 4 OF 5

LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S. RT. 20), SECTION 28-SO-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006  
Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 18 SHEETS
U.S. 20	28-SO-M-1	JODAVIESS COUNTY	18	12	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT # 64C98		

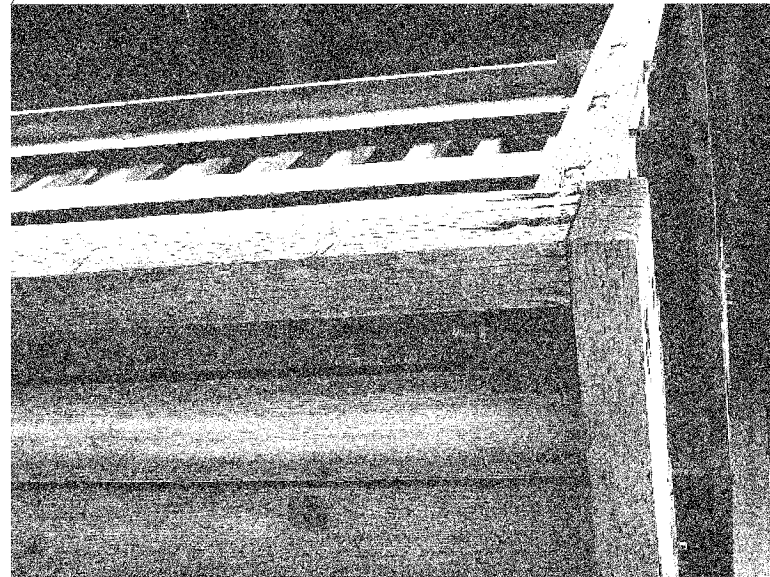


Photo 25 - Deterioration in member-to-member connections with missing washers.

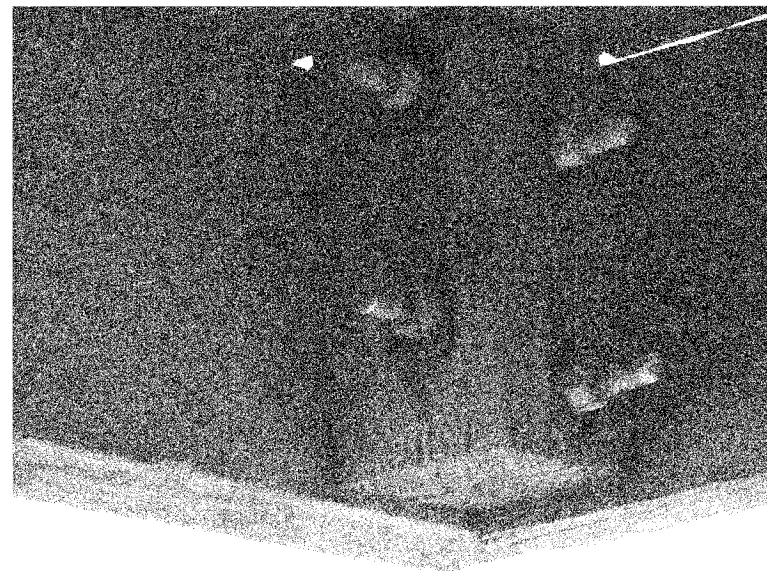


Photo 25 - Rusted Washers.

FOR COLOR PHOTOS WITH BETTER RESOLUTION  
CONTACT MAHMOUD ETEMALDI (815)284-5393

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

PHOTOSHEET 5 OF 5

LONGHOLLOW SCENIC OVERLOOK REST AREA  
TOWER REPAIRS  
FAP RT. 301 (U.S. RT. 20), SECTION 28-SO-M-1  
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006  
Soodan Spoden & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
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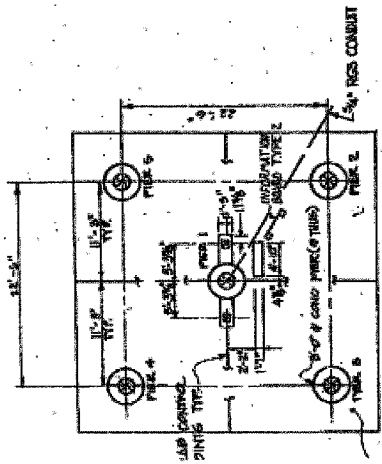
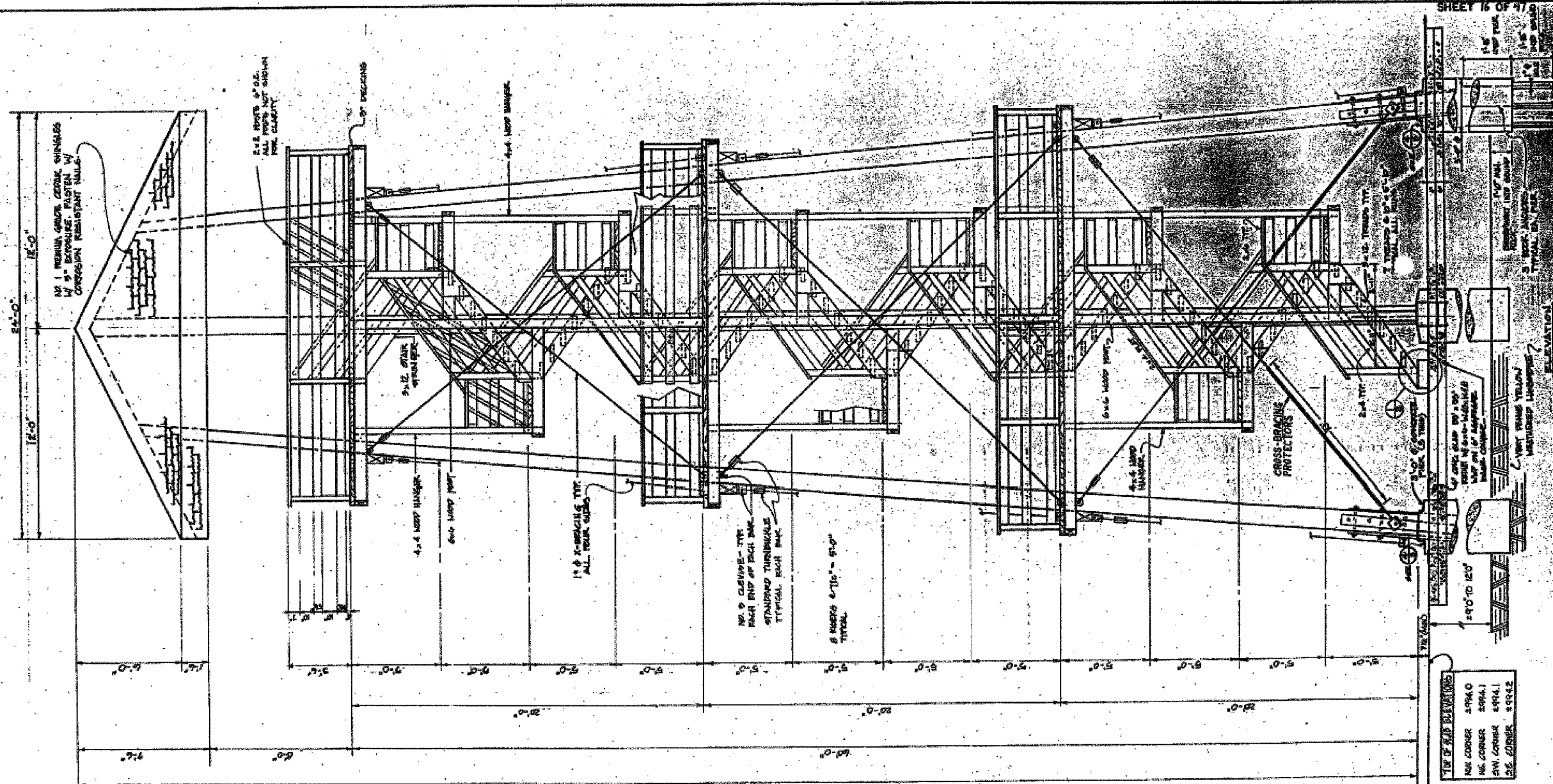


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	13	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

SHEET 2 of 11 - TOWER PLANS

CONTRACT # 64C98



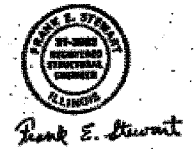
TOWER BASE PLAN

**DESIGN STRESSES**  
 TOWER STRUCTURAL MEMBER - EXISTING PILE OR DRILLING  
 (FOR DESIGN) DESIGNER SELECT STRUCTURAL GRADE  
 CONC. IS - 4000 PSI  
 REINFORCEMENT - 1/2" & 3/4" PLATES ALIGNED WITH 1/2" & 3/4" WOOD PA  
 CENTERLINE OF PILE. ALL REINFORCEMENT SHALL BE  
 CURVED THROUGH PILES. ALL REINFORCEMENT SHALL BE  
 GALVANIZED IN ACCORDANCE WITH AISC 15.2.

**LOADING**  
 ROOF LIVE LOAD = 50 PSF  
 PLATFORM LIVE LOAD = 50 PSF  
 WIND LOAD = UNIFORM LOAD CODE REQUIREMENTS PER  
 ASCE 7-98  
 ICE LOAD = 1/2" THICK OVER ALL MEMBERS

**GENERAL NOTES**  
 1. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 2. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 4. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 5. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 6. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.

8. GASKETS SHALL BE USED ON ALL JOINTS.  
 9. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 10. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 11. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 12. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 13. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 14. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.  
 15. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.



TOWER ELEVATION AND NOTES  
 LOOKOUT TOWER  
 FA. ROUTE 5  
 SECTION 2850 & TOW  
 JO DAVIESS COUNTY

EXISTING DRAWING  
 FOR INFORMATION ONLY

SCALE: NONE DATE: DECEMBER, 2006

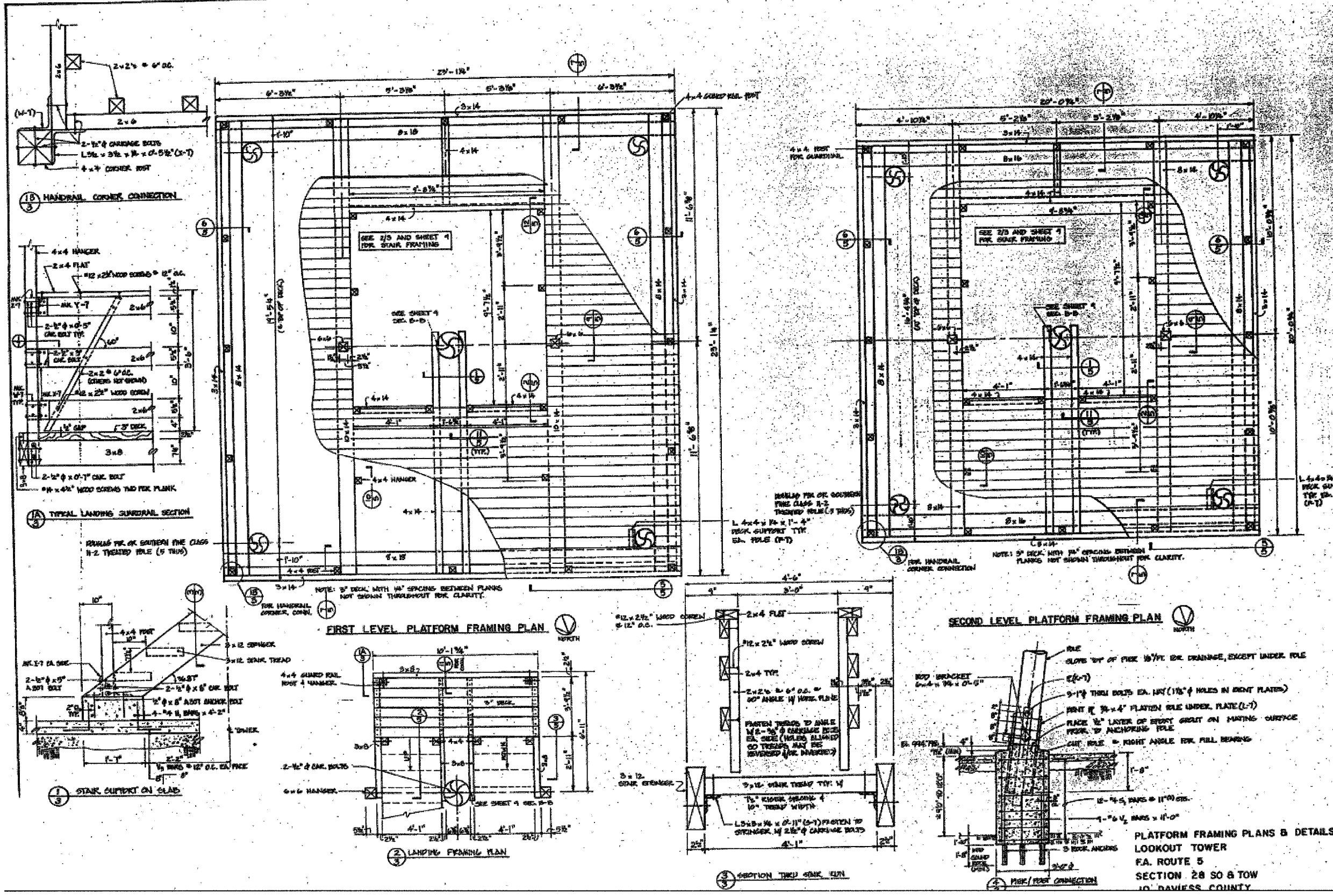
Soodan & Associates, Inc.  
 100 North LaSalle Street, Suite 1800  
 Chicago, Illinois 60602

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	28-50-M-1	JUDASVILLE COUNTY	18	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CONTRACT # 64C98

SHEET 3 of 11 - Tower Plans  
SHEET 17 OF 47



PLATFORM FRAMING PLANS & DETAILS  
LOOKOUT TOWER  
F.A. ROUTE 5  
SECTION 28 SO & TOW  
JUDASVILLE COUNTY

EXISTING DRAWING  
FOR INFORMATION ONLY

SCALE: NONE  
DATE: DECEMBER, 2006  
Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602

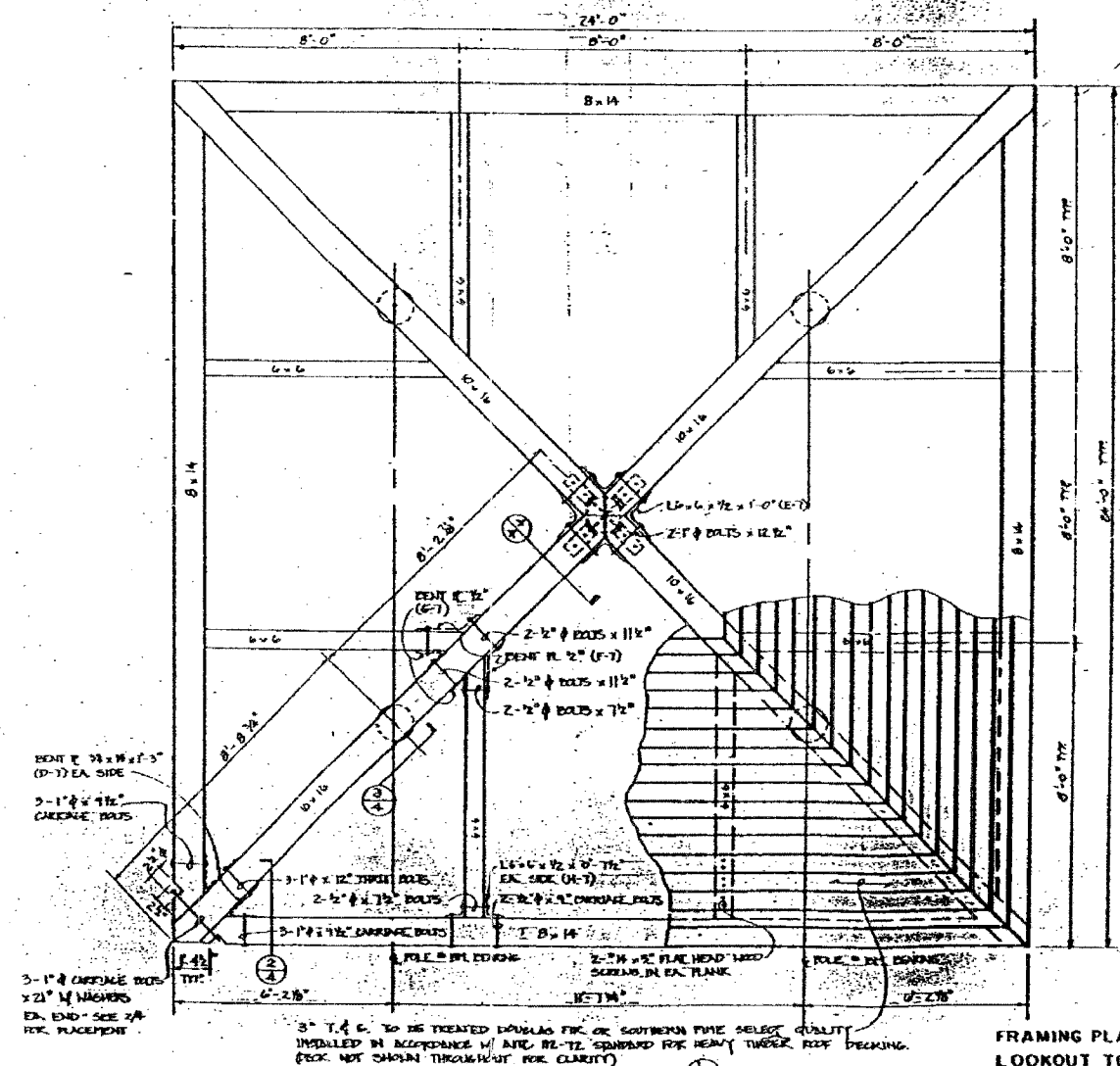
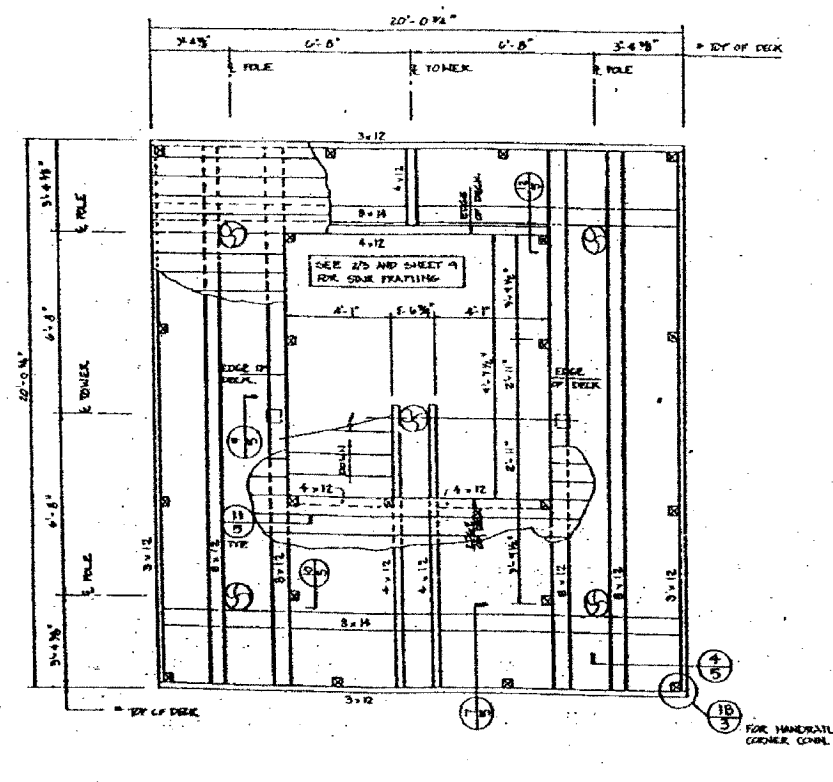
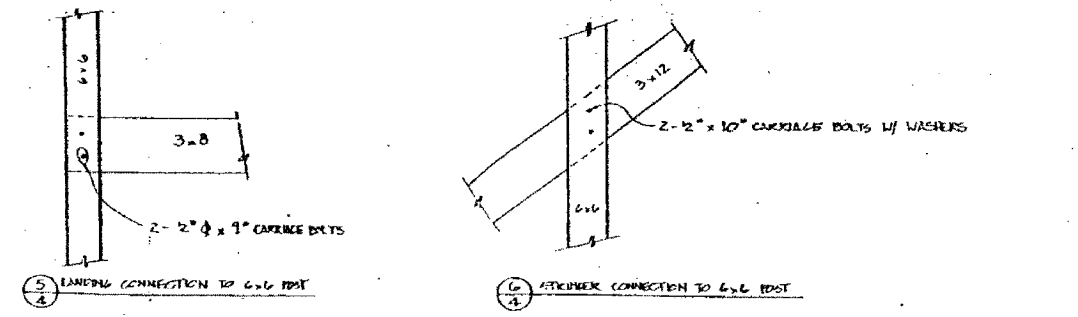
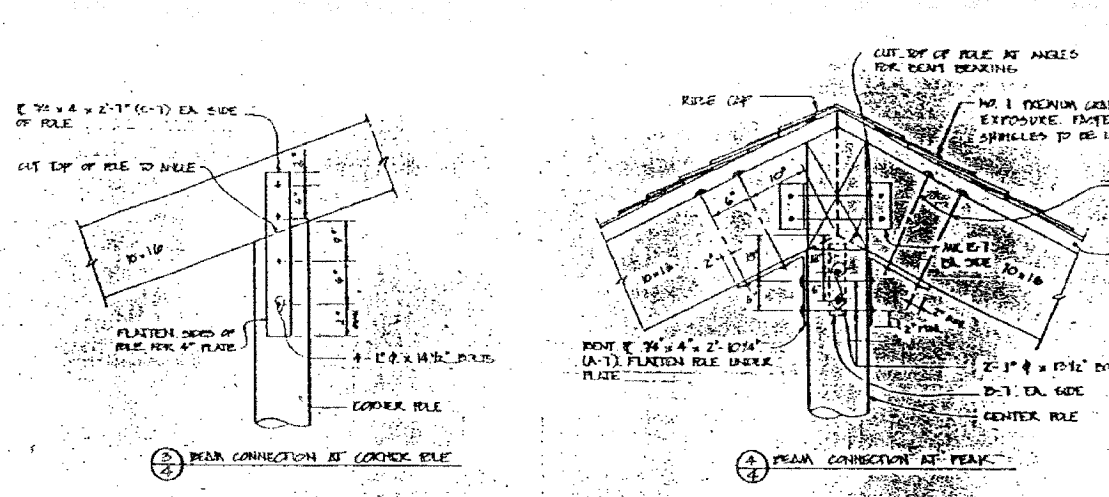
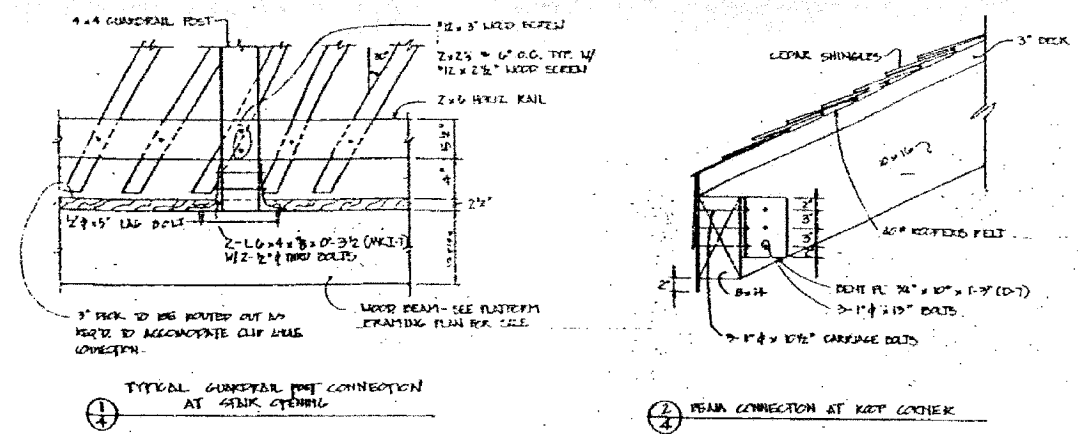
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 20	28-50-M-1	JODAVIENS COUNTY	18	15
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

SHEET NO. 15  
18 SHEETS

SHEET 18 OF 47

CONTRACT # 64C98



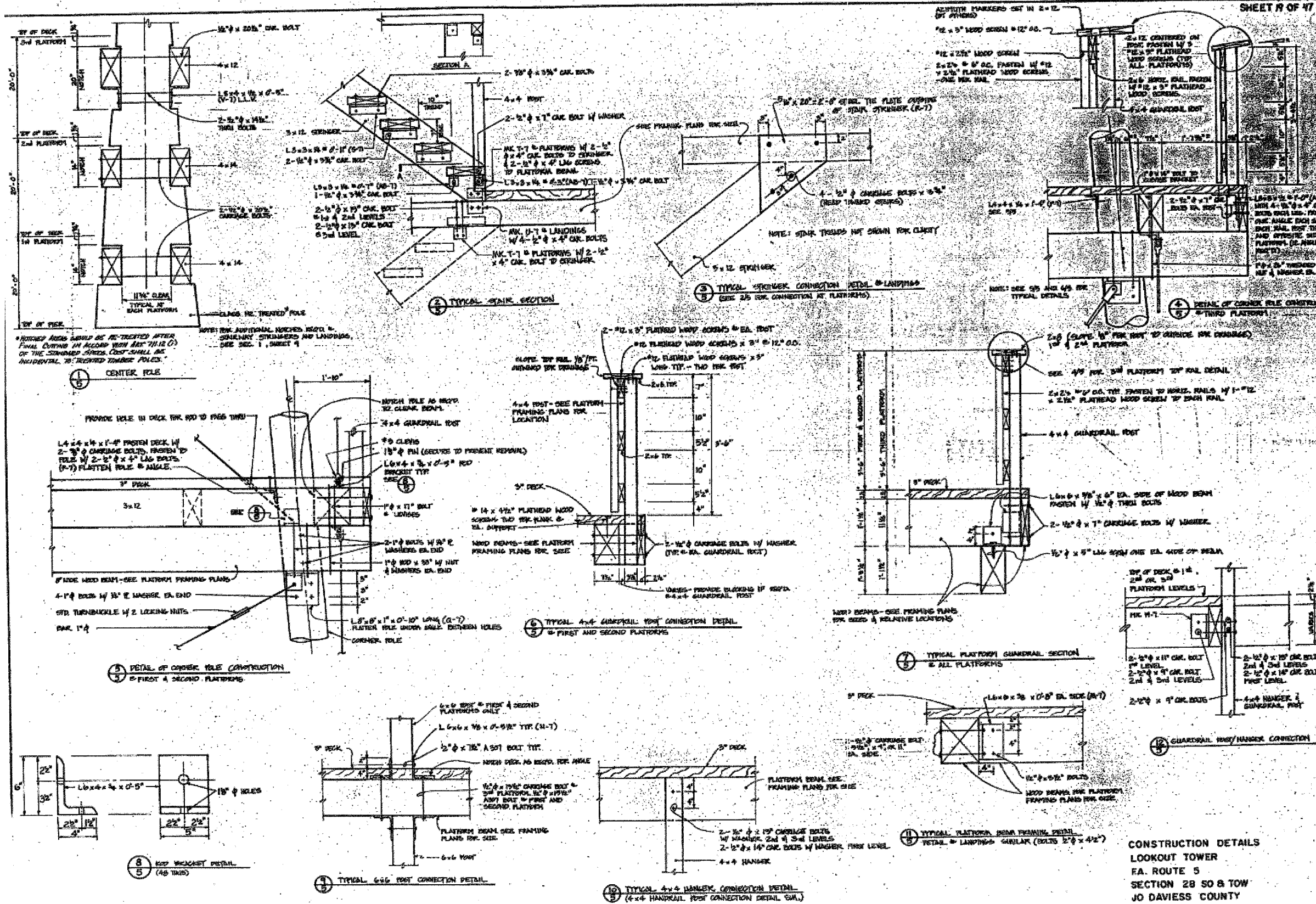
FRAMING PLANS & DETAILS  
LOOKOUT TOWER  
E.A. ROUTE 5  
SECTION 28 50 B TOW  
JODAVIENS COUNTY

EXISTING DRAWING  
FOR INFORMATION ONLY

SCALE: NONE DATE: DECEMBER, 2006

Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602





CONSTRUCTION DETAILS  
LOOKOUT TOWER  
FA. ROUTE 5  
SECTION 28 SO & TOW  
JO DAVIESS COUNTY

EXISTING DRAWING  
FOR INFORMATION ONLY

SCALE: NONE DATE: DECEMBER, 2006  
Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602

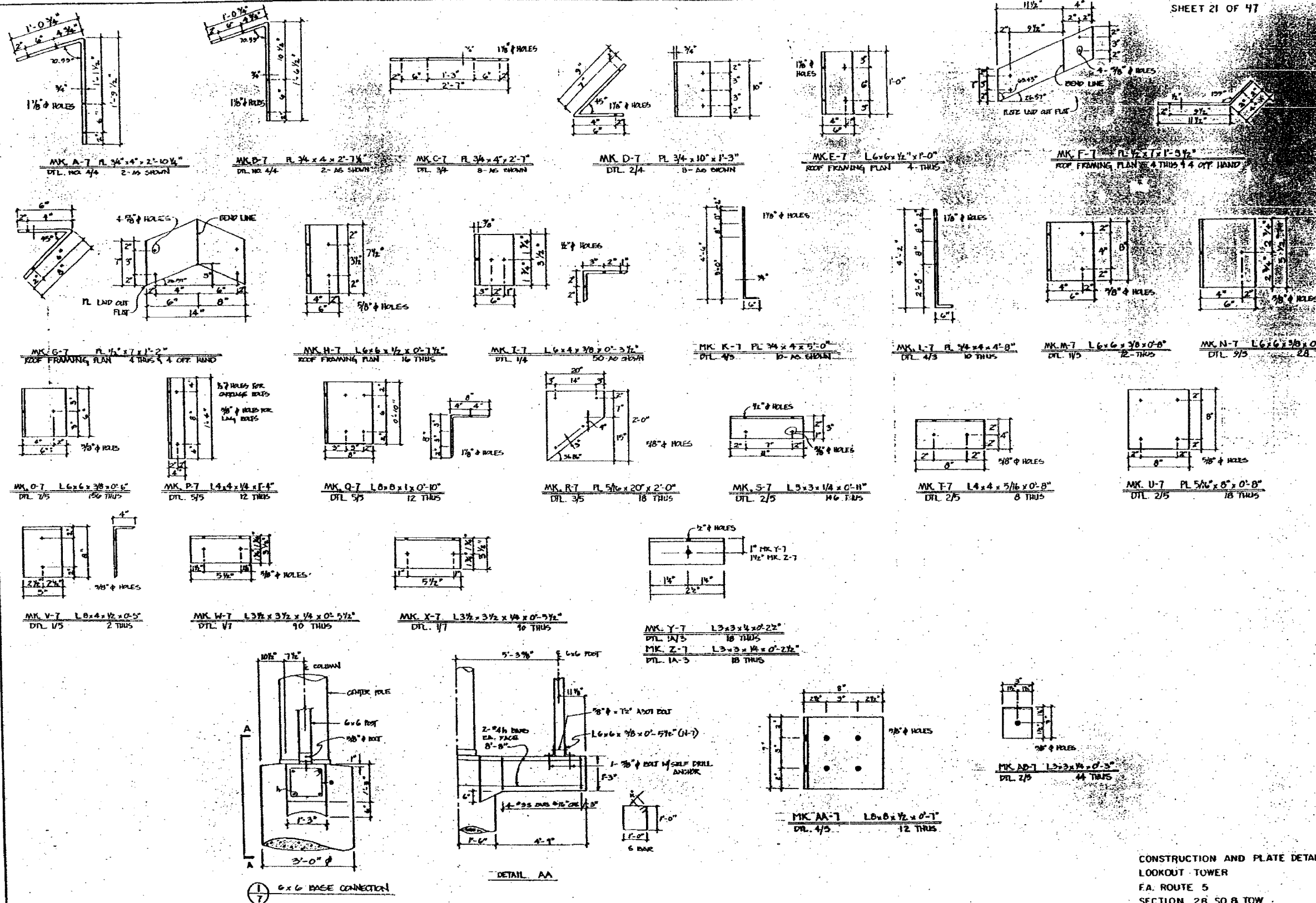


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET 7 OF 11 - TOWER PLANS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	17	18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		CONTRACT # 64C98	

SHEET 21 OF 47



CONSTRUCTION AND PLATE DETAIL  
LOOKOUT TOWER  
F.A. ROUTE 5  
SECTION 28 50 8 TOW

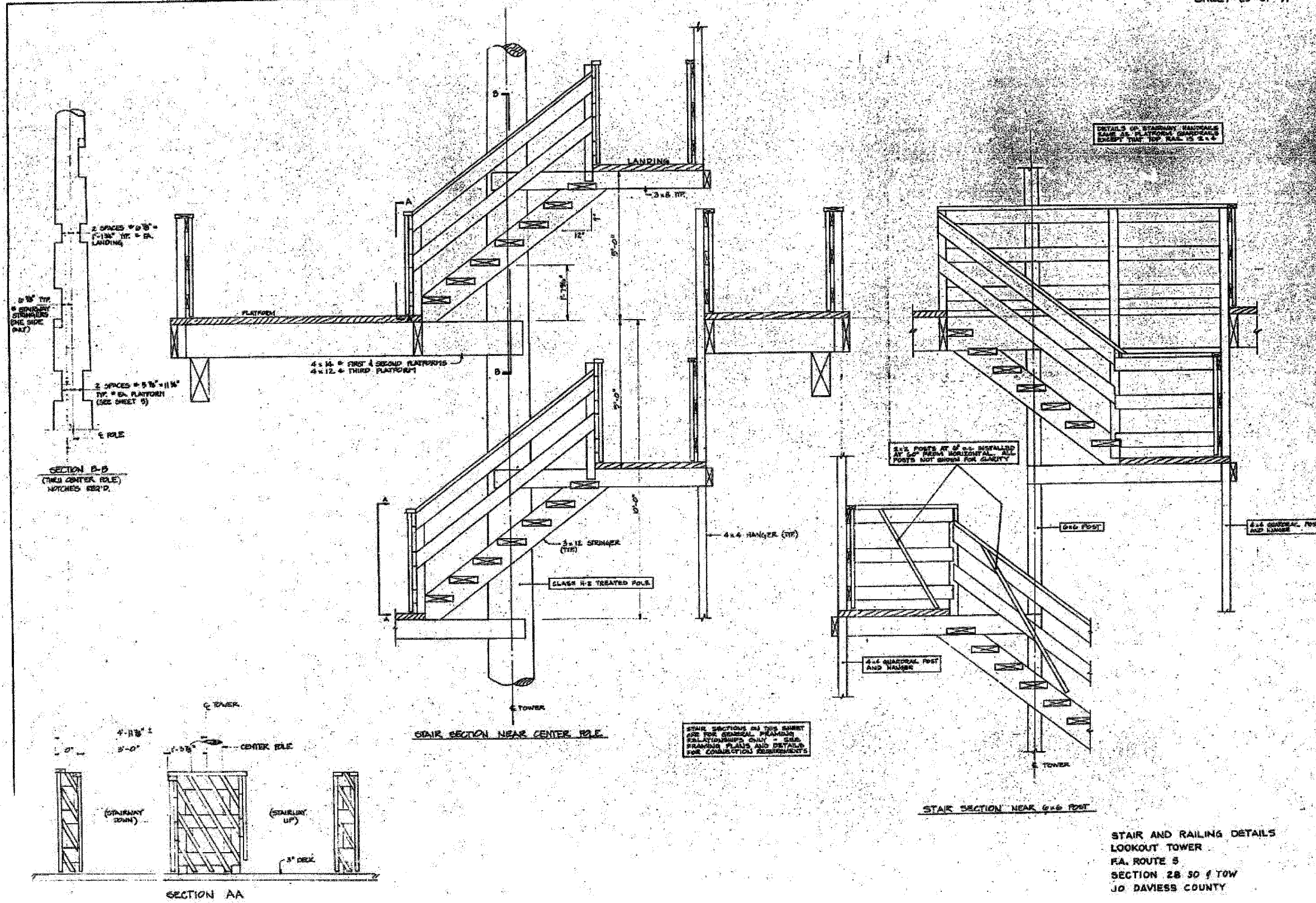
EXISTING DRAWING  
FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET 9 of 11 - TOWER PLANS  
SHEET 23 OF 47

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 18
ILS. 20	28-50-M-1	JODAVIESS COUNTY	18	18	18 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-			

CONTRACT # 64C98



STAIR SECTIONS IN THIS SHEET ARE FOR GENERAL PLANNING RELATIONSHIPS ONLY - SEE DRAWING PLANS AND DETAILS FOR CONSTRUCTION REQUIREMENTS

STAIR AND RAILING DETAILS  
LOOKOUT TOWER  
R.A. ROUTE 5  
SECTION 28 50 f TOW  
JO DAVIESS COUNTY

EXISTING DRAWING  
FOR INFORMATION ONLY

SCALE: NONE DATE: DECEMBER, 2006  
Soodan & Associates, Inc.  
100 North LaSalle Street, Suite 1800  
Chicago, Illinois 60602