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| FBI ROUTE | IDOT SECTION | COUNTY |
| 9277 | 04-00031-00-PV | ST. CLAIR |
| FEDERAL AID PROJECT | ILLINOIS | |
| IDOT JOB NO. | C-98-309-06 | |
| IDOT CONTRACT NO. | 97327 | |

THOUVENOT, WADE & MOERCHEN, INC.
ENGINEERS • SURVEYORS • PLANNERS



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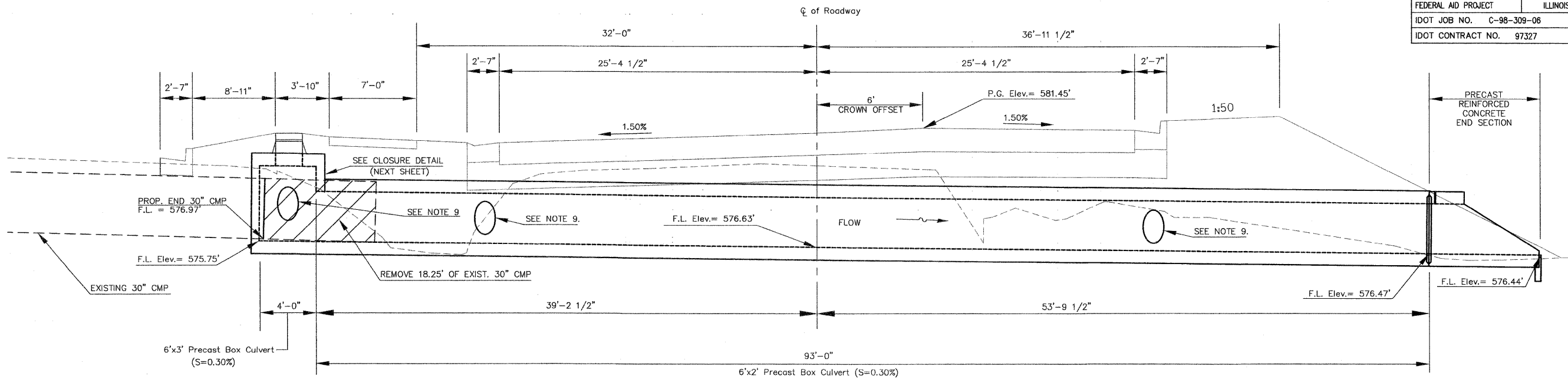
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TEL (618) 939-5050
FAX (618) 939-3938
waterloo@twm-inc.com

| PROFESSIONAL REGISTRATIONS | LICENSE NO. |
|-------------------------------------|-------------|
| ILLINOIS PROFESSIONAL DESIGN FIRM | 184-001220 |
| PROFESSIONAL ENGINEERING CORP. | 62-035370 |
| PROFESSIONAL STRUCTURAL ENGR. CORP. | 81-005202 |
| ILLINOIS PROF. LAND SURVEYING CORP. | 048-000029 |
| MISSOURI PROFESSIONAL ENGR. CORP. | NC 001528 |
| MISSOURI LAND SURVEYING CORP. | NC 000346 |

SEAL

Signature: _____
Signature Date: _____
Expiration Date: _____

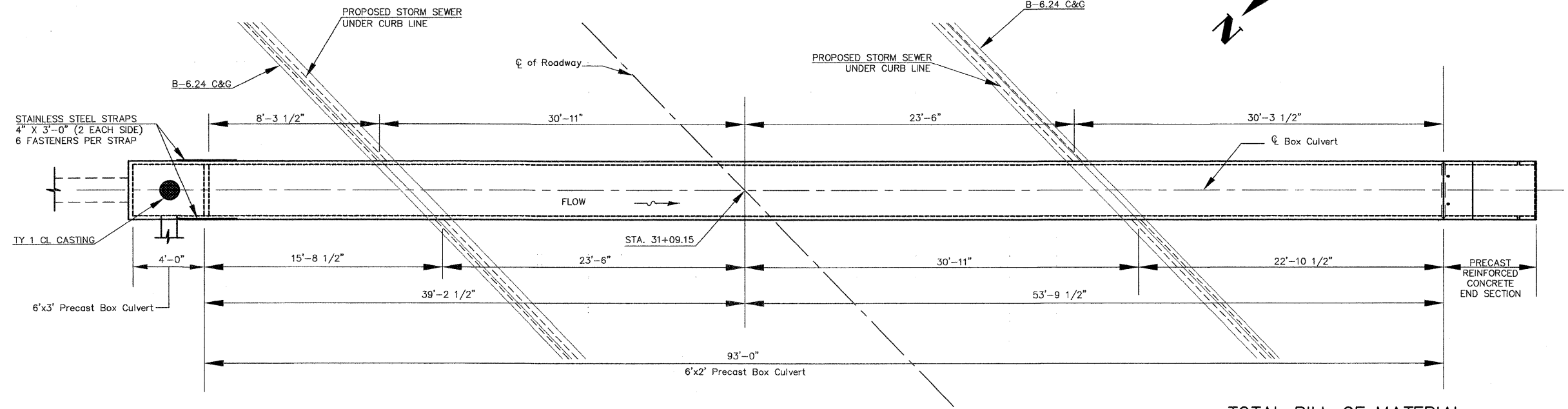
STATEMENT OF RESPONSIBILITY
I hereby confirm that the document herein to be authenticated by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.



LONGITUDINAL SECTION

(Looking East)

NOTE: VERTICAL SCALE DOUBLED AND FUTURE ROAD GEOMETRY SHOWN FOR CLARITY.
(SEE NEXT SHEET FOR NOTES AND DETAILS)



PLAN

LOADING HS20-44
DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges

**DESIGN STRESSES
PRECAST UNITS**
f_c=5 ksi
f_y=65 ksi (welded wire fabric)

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--|------|-------|
| Precast Concrete Box Culverts 6 ft. x 2 ft. | Ft. | 93 |
| Precast Concrete Box Culverts 6 ft. x 3 ft. | Ft. | 4 |
| Box Culvert End Sections (6 ft x 2 ft.) | Each | 1 |
| Type 1 Closed Lid | Each | 1 |

BOX CULVERT DETAILS
PROJECT: **HUNTWOOD ROAD RECONSTRUCTION VILLAGE OF SWANSEA ST. CLAIR COUNTY**

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
| △ | | |
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|---|---|
| DRAWN BY: JWS | SHEET |
| DESIGNED BY: JWS | 61 |
| CHECKED BY: SJK | OF 104 SHEETS |
| APPROVED BY: SJK | PROJECT DESCRIPTION |
| PROJECT NUMBER: T20-030356 | Huntwood Road ReConstruction |
| <input checked="" type="checkbox"/> ISSUED FOR REVIEW | <input type="checkbox"/> ISSUED FOR BIDDING |
| <input type="checkbox"/> ISSUED FOR CONSTR. | <input type="checkbox"/> RECORD DRAWING |