F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	172	149

STA. 10+00	TO STA. 22+96.05
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
CONTRACT NO. 62389		

BM #300: SET "□" ON W. SIDE OF CONCRETE BASE OF I-55 "↑" SOUTH BLOOMINGTON/I-55 NORTH "→" CHICAGO ON E. SIDE OF RTE 53 ±150' OF N BOUND I-55 RAMP. STA. 1456+59.76, 72.33' RT, IL RTE 53 @ ELEVATION 704.52.

BM #302: SET "□" ON THE SW CORNER OF THE TRAFFIC SIGNAL CONTROL BOX AT THE NE CORNER OF THE EXIT RAMP OF S. BOUND I-55 & RTE 53. STA. 1463+96.26, 104.52' RT. IL RTE 53 @ ELEVATION 699.38.

PLAN

— EXISTING ABUTMENT FOUNDATION
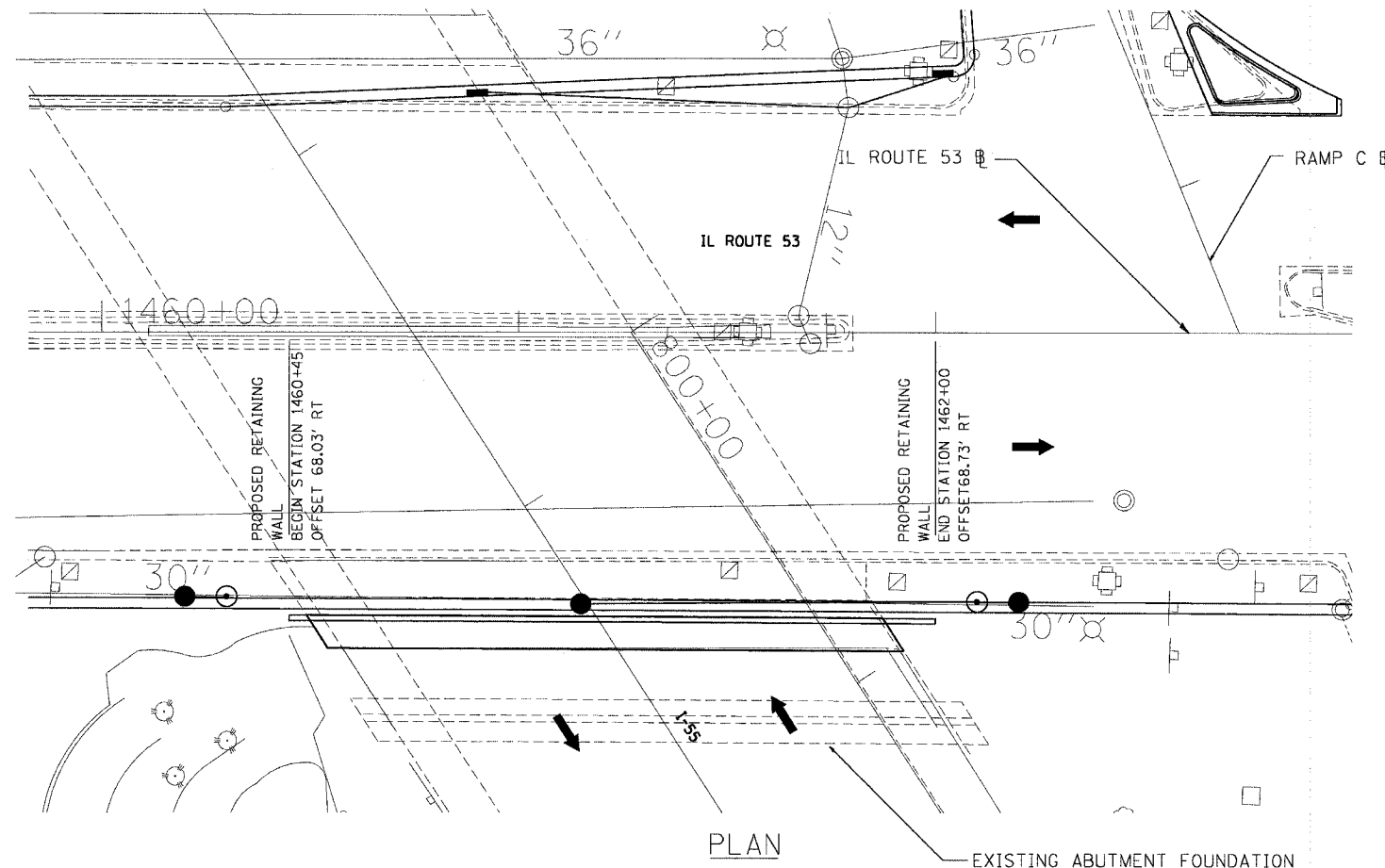
GENERAL NOTES

1. STATION AND OFFSETS ARE MEASURED FROM ℄ IL RTE 53 TO THE FRONT FACE OF THE RETAINING WALL.

2. EXISTING UTILITIES IN CONFLICT WITH RETAINING WALL SHALL BE ABANDONED OR RELOCATED ACCORDING TO DIRECTIONS GIVEN IN THE ROADWAY PLANS.

3. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

4. ALL CONSTRUCTION JOINTS SHALL BE BONDED.

5. ALL EXPOSED CONCRETE EDGES SHALL HAVE ¾" BY 45° CHAMFER EXCEPT WHERE SHOWN OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF 1 FOOT BELOW THE FINISHED GRADE LINE.

6. A PROTECTIVE COAT SHALL BE APPLIED ACCORDING TO SECTION 503 OF THE STANDARD SPECIFICATIONS TO ALL CONCRETE SURFACES NOT IN CONTACT WITH SOIL.

7. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M3L, M42 OR M53 GRADE 60.

DESIGN SPECIFICATIONS:

2002 AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES

DESIGN STRESSES:

FIELD UNITS

f'c = 3,500 PSI
fy = 60,000 PSI (REINF.)

LOADING

EQUIVALENT FLUID SOIL PRESSURE = EARTH DRY WEIGHT = 120 PCF
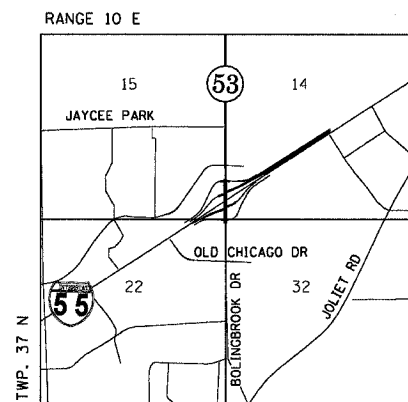SURCHARGE = 2 FT.

SEISMIC DATA

SEISMIC PERFORMANCE CATEGORY (SPC) = A
BEDROCK ACCELERATION COEFFICIENT (A) = 0.04g
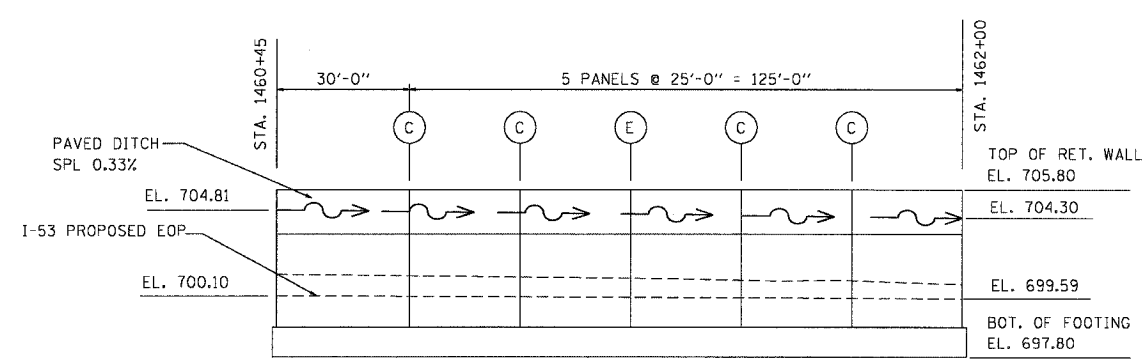SITE COEFFICIENT (S) = 1.0

LEGEND

- ⓒ — CONSTRUCTION JOINT
- Ⓔ — EXPANSION JOINT
- ⊗ — SOIL BORING LOCATION
- ← — DIRECTION OF TRAFFIC

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structure	Cu. Yd.	80.1
Reinforcement Bars	Pound	6753
Expansion Bolts (1 in. dia.)	Each	45
Structure Excavation	Cu. Yd.	185
Slope Wall Removal	Sq. Yd.	235
Pourous Granular Embankment	Cu. Yd.	90.4

LOCATION SKETCH

STR-05

ELEVATION
LOOKING EAST

30'-0"   5 PANELS @ 25'-0" = 125'-0"

PAVED DITCH
SPL 0.33%

TOP OF RET. WALL EL. 705.80

EL. 704.81

EL. 704.30

I-53 PROPOSED EOP

EL. 700.10

EL. 699.59

BOT. OF FOOTING EL. 697.80

STA. 1460+45
STA. 1462+00

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL ROUTE 53 RETAINING WALL
STR. NO. 099-W021
STA 1460+45 TO STA 1462+00

SCALE: N.T.S.   DRAWN BY: RI
DATE: 11/8/2004   CHECKED BY: RI

OCTOBER, 2004