| SHEET | NO. | DESCRIPTION |
|-------|-----|-------------|
| | | |

| 1 | COVER SHEET |
|------------------|--|
| 2 | INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES |
| 3 | SUMMARY OF QUANTITIES |
| 4 - 5 | HORIZONTAL ALIGNMENTS, TIES AND BENCHMARKS |
| 6 - 7 | PROPOSED DMS ROADWAY PLANS |
| 7A | TYPICAL E-SERVICE INSTALLATION |
| ζ ₇ Β | CONCRETE FOUNDATION, TYPE 1 DETAIL |
| 8 | DMS OH STRUCTURES GENERAL ELEVATIONS |
| 9 | OH SIGN STRUCTURES PLAN & ELEVATION |
| 10 - 11 | OH SIGN STRUCTURES ALUMINUM TRUSS DETAILS |
| 12 | OH SIGN STRUCTURES DAMPING DEVIÇE |
| 13 - 14 | OH SIGN STRUCTURES SUPPORT FRAME |
| 15 - 18 | OH SIGN STRUCTURES ALTERNATE ALUMINUM WALKWAY |
| 19 - 20 | OH SIGN STRUCTURES DRILLED SHAFT DETAILS |
| 21 - 22 | SOIL BORING LOGS |
| 23 - 28 | CROSS SECTIONS |
| | |
| | |

ABBREVIATIONS

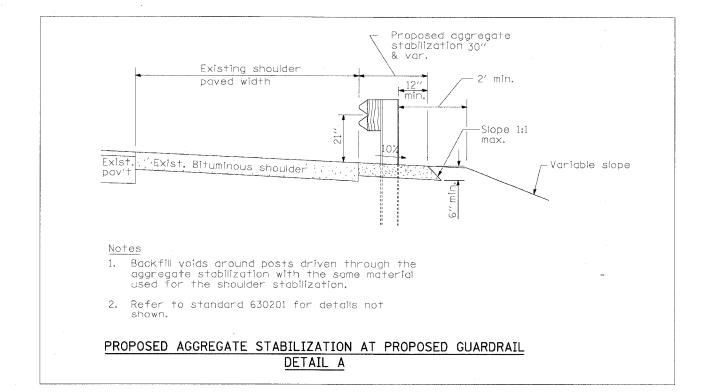
DYNAMIC MESSAGING SIGNS

OVERHEAD

HIGHWAY STANDARDS

STD. NO. **DESCRIPTION**

| 000001-04 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS |
|--------------------|--|
| 000006 | DECIMAL OF AN INCH AND OF A FOOT |
| 285001-01 | TEMPORARY EROSION CONTROL SYSTEMS |
| 630001- <i>06</i> | STEEL PLATE BEAM GUARDRAIL |
| 630201 - 03 | PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL |
| 630301-03 | SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS |
| 631011 -02 | TRAFFIC BARRIER TERMINAL TYPE 2 |
| 635006 -02 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 635011 - 01 | REFLECTOR MARKER AND MOUNTING DETAILS |
| 701101 ~ 01 | OFF-ROAD OPERATIONS, MULTILANE LESS THAN 4.5M (15') AWAY |
| | FROM PAVEMENT EDGE |
| 701400-02 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701401 - 03 | LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 702001 - 06 | TRAFFIC CONTROL DEVICES |
| | |



GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO
 (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- 5. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 6. THE COST OF EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF PROPOSED AGGREGATE SHOULDERS, TYPE B 6" SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQ YD FOR AGGREGATE SHOULDERS,
- RESTORATION OF EXISTING GROUND AT CONCRETE FOUNDATION REMOVAL LOCATIONS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISION FOR TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, SPECIAL. THE COST OF RESTORATION OF EXISTING GROUND AT CONCRETE FOUNDATION REMOVAL LOCATIONS WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE CONCRETE FOUNDATION - OVERHEAD.
- THE RESTORATION OF EXISTING GROUND WITH SEEDING CL 2A AND EROSION CONTROL BLANKET AT DRILLED SHAFT CONCRETE FOUNDATION LOCATIONS OUTSIDE THE MEDIAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED THE CONTRACT UNIT PRICE PER CU. YD. FOR DRILLED SHAFT CONCRETE FOUNDATIONS.
- DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDER DAYS. TEMPORARY STABILIZATION THROUGH USE OF TEMPORARY EROSION CONTROL SEEDING OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDER DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.

REQUIRED STAGES OF CONSTRUCTION

STAGE I

- 1. ALL LANE CLOSURES SHALL USE STANDARDS 701400 AND 701401. THESE LANE CLOSURES WILL ONLY BE ALLOWED DURING THE OFF PEAK HOURS AS DETAILED IN THE SPECIAL PROVISION FOR "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
- 2. CONSTRUCT GUARDRAIL AND AGGREGATE STABILIZATION AS SHOWN ON PLANS.

STAGE II

3. CONSTRUCT PROPOSED OVERHEAD SIGN STRUCTURES.

4. REMOVE EXISTING SIGN STRUCTURES AS SHOWN ON PLANS.

ILLINOIS DEPARTMENT OF TRANSPORTATION FAI ROUTE 55 (I-80 TO U.S. 30) DYNAMIC MESSAGING SIGNS

INDEX OF SHEETS STATE STANDARDS GENERAL NOTES

SCALE:

DRAWN BY MRK DATE 03/24/06

DATE VAME SCALE NAME

TENG

CHECKED BY DDH TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILINOIS

SUMMARY OF QUANTITIES

| 201200 201200 200300 200500 101500 | ITEM REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL TEMPORARY DITCH CHECKS INLET AND PIPE PROTECTION | UNIT CU YD EACH | TOTAL QUANTITY Y002-1C 30 |
|--|--|---|---|
| 000300 | TEMPORARY DITCH CHECKS | EACH | 30 |
| 000500 | | | 1 |
| 101500 | INLET AND PIPE PROTECTION | | |
| 00400 | | EACH | 1 |
| | AGGREGATE SHOULDERS, TYPE 8 6" | SO YD | 526_ |
| 000000 | ROCK EXCAVATION FOR STRUCTURES STEEL PLATE BEAM GUARD RAIL. TYPE A | <i>CU YO</i> . | 1462.5 |
| 100045 | TRAFFIC BARRIER TERMINAL, TYPE 2 | EACH | 4 |
| | TRAFFIC BARRIER TERMINAL TYPE 1. SPECIAL (TANGENT) | EACH | 4 |
| 100167 | | | 4 |
| 100100 | MOBILIZATION | L SUM | 1 |
| 300300 | OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0") | FOOT | 154 |
| 400200 | DRILLED SHAFT CONCRETE FOUNDATIONS | CU YD | 68.7 |
| 200410 | GUARDRAIL MARKERS, TYPE A | EACH | 23 |
| 201000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 4 |
| 324250 | DYNAMIC MESSAGE SICH BATTERY BACK-UP IN FREE STANDING ENCLOSURE, 2 HOUR DURATION | EAGH | 2 |
| 324251 | DYNAMIC MESSAGE SIGN BATTERY BACK-UP IN FREE STANDING ENCLOSURE, 24 HOUR DURATION | EACH | 2 |
| 324835 | LED DYNAMIC MESSAGE SIGN FULL-MATRIX CONFIGURATION | EACH | 2 |
| 011015 | TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | L SUM | 1 |
| 015000 | CHANGEABLE MESSAGE SIGN | CAL MO | 4 |
| 330105 | OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A | FOOT | (141) |
| 013798 | CONSTRUCTION LAYOUT | L SUM | 1 |
| 076600 | TRAINEES- | -HOUR | |
| 5336 | TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, SPECIAL | SO YD | [1452] |
| 22900 | ANY OFFE FOUNDATIVE THAT I | FACU | 2 |
| 24252 | ELECTRIC SERVICE INSTALLATION 100A, 120/240Y | EACH | 2 |
| 24800 | CABINET, MODEL 334 DYNAMIC MESSAGE SIGN | EACH | 2 4 |
| 013 076 53 23 24 24 | 798 600 36 900 252 | 798 CONSTRUCTION LAYOUT 600 TRAINEES 36 TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, SPECIAL 900 CONCRETE FOUNDATION, TYPE I 252 CLECTRIC SERVICE INSTALLATION 100A, 120/240Y 600 CABINET, MODEL 334, DYNAMIC MESSAGE, SIGN | 798 CONSTRUCTION LAYOUT L SUM 600 TRAINEES HOUR- 36 TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, SPECIAL SO YO 900 CONCRETE FOUNDATION, TYPE I 252 CLECTRIC SERVICE INSTALLATION 100A, (20/240Y 1800 CABINET, MODEL 334 DYNAMIC MESSAGE 5/60V EACH |

* SPECIALTY ITEMS

SCHEDULE OF EARTHWORK

| ITEM | TINU | QUANTITY AT SIGN STATION | | TOTAL |
|---|-------|-----------------------------|-----------|----------|
| | | 59+00.00 | 469+00.00 | QUANTITY |
| REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 0.00 | 30.00 | 30.00 |
| EARTH EXCAVATION (FOR INFORMATION ONLY) | CU YD | 36.07 | 33.74 | 70.00 |
| TOPSOIL (FOR INFORMATION ONLY) | CU YD | 47.17 | 46.46 | 94.00 |
| | | | | |

• EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF PROPOSED AGGREGATE SHOULDERS, TYPE B 6" IS NOT PAID SEPARATELY.

ILLINGIS DEPARTMENT OF TRANSPORTATION FAI ROUTE 55 (I-80 TO U.S. 30) DYNAMIC MESSAGING SIGNS

SUMMARY OF QUANTITIES

SCALE: DATE 03/27/06 TENG

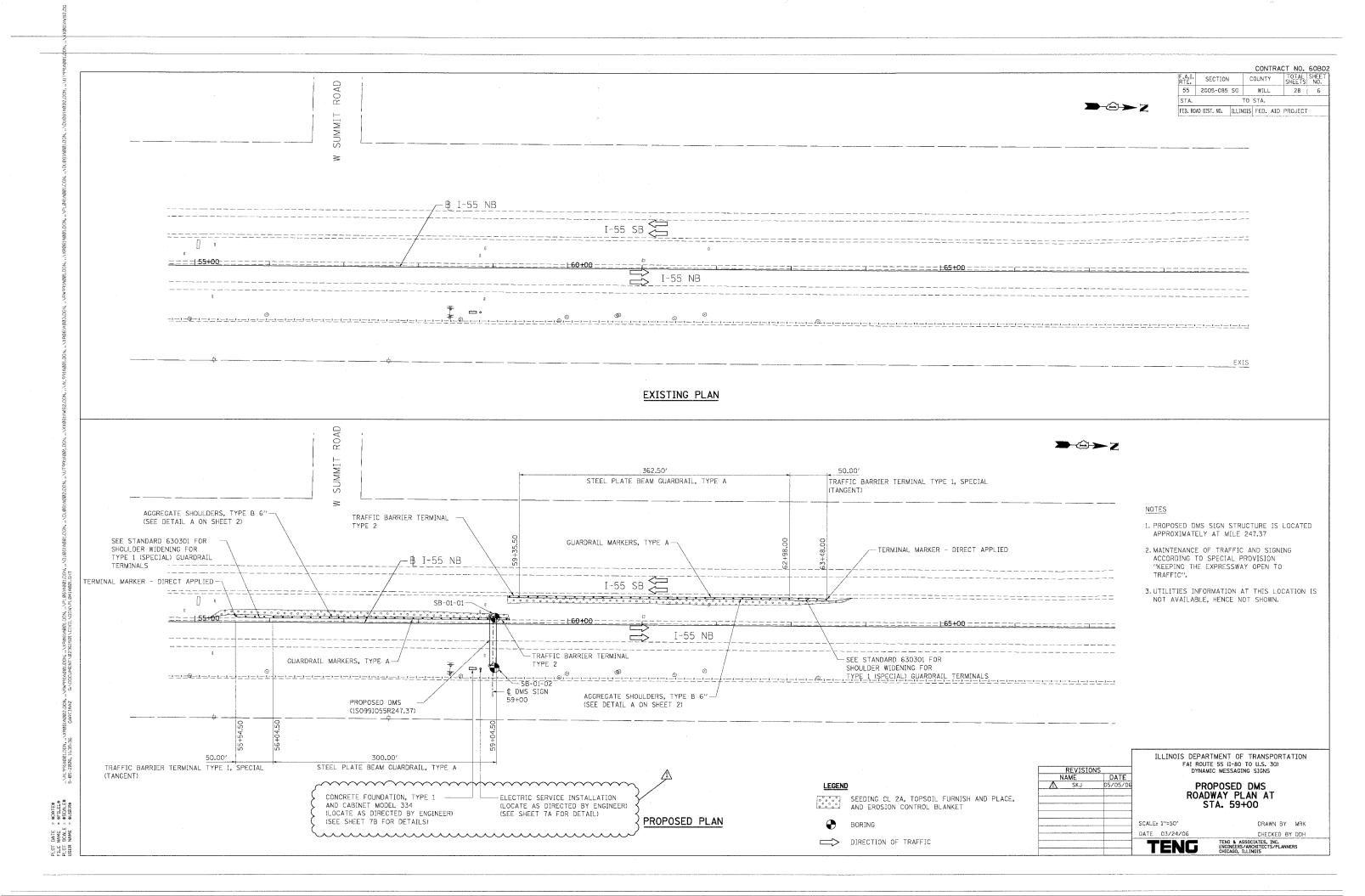
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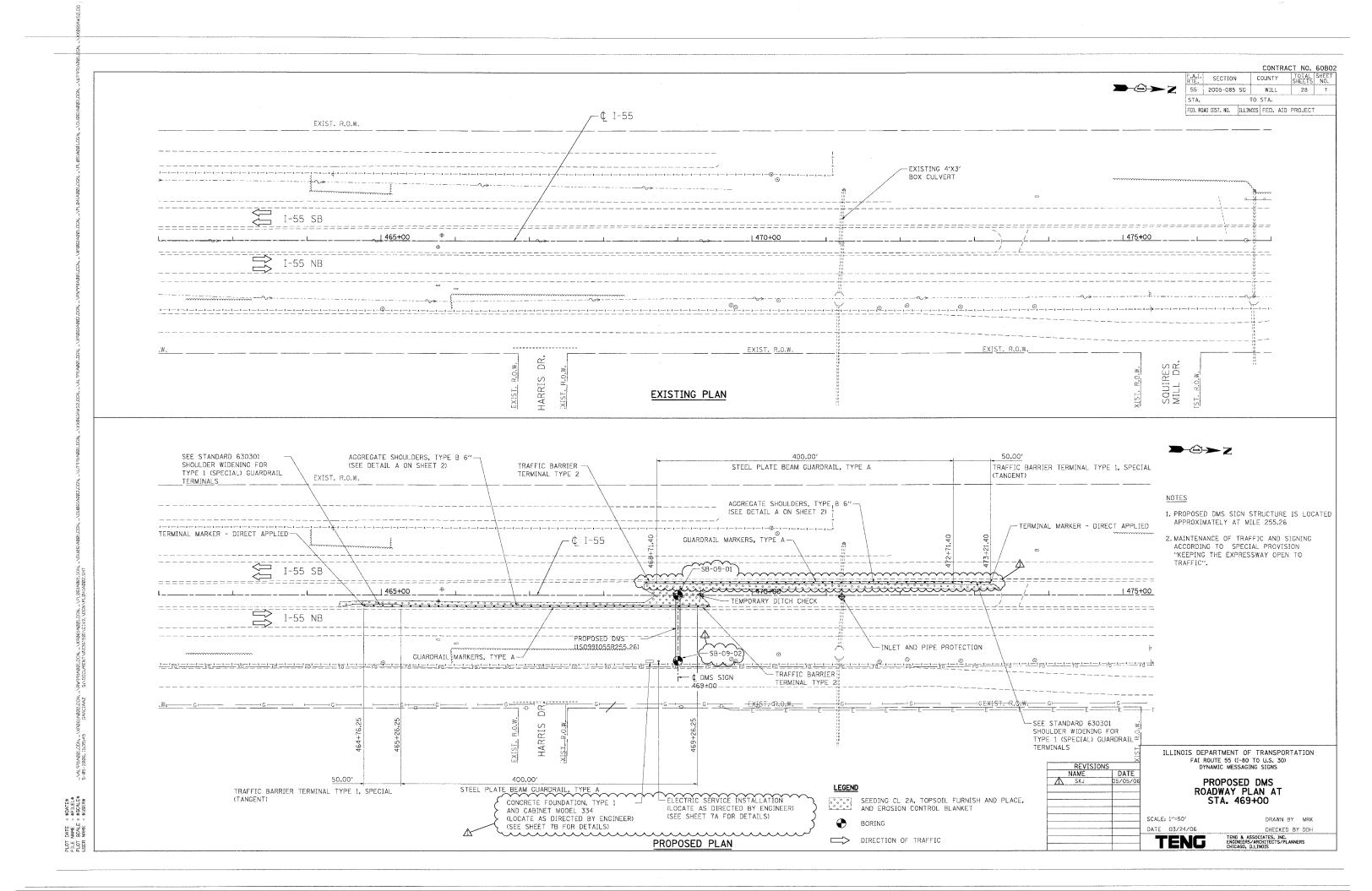
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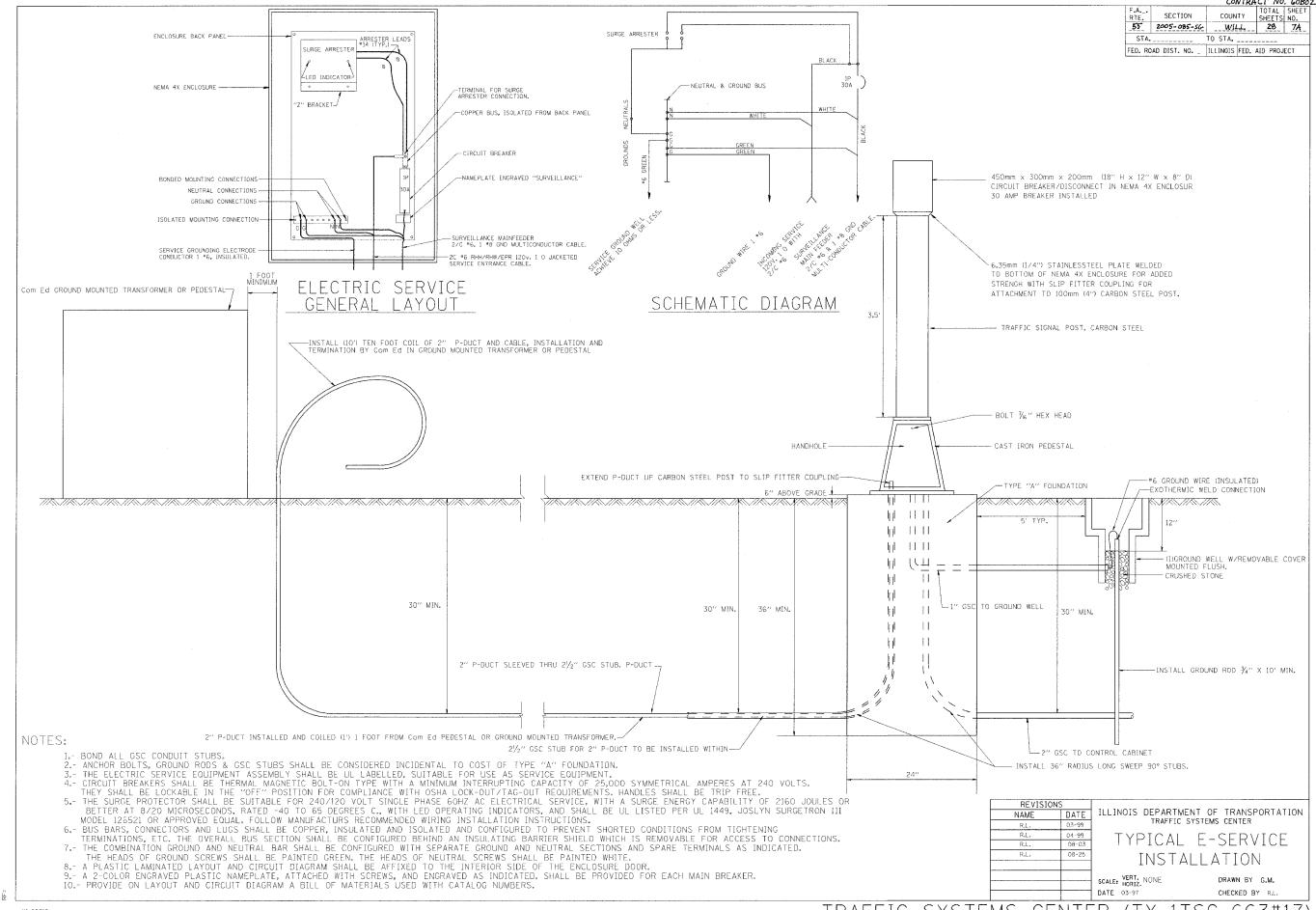
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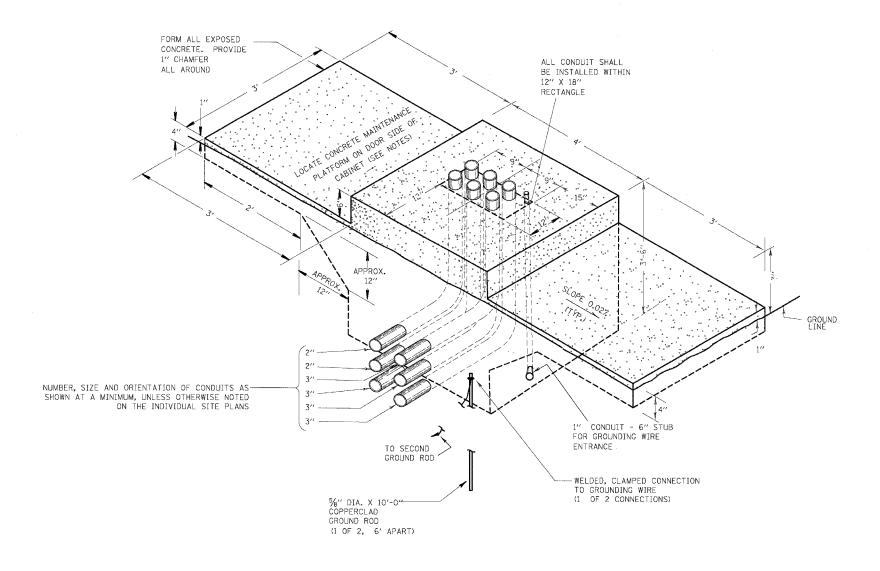
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS







| F.A.I. RTE. | SECTION . | С | OUNTY | ′ | TOTAL SHEETS | SHEET NO. |
|----------------|-------------------|------|-------|-----|-----------------|--------------|
| 55 | 2005-085 SG | | WILL | | 28 | 7B |
| STA. TO STA. | | | | | | |
| FEO, RO | AD DIST, NO. ILLI | NOIS | FED. | AID | PROJECT | |



NOTES

- 1. INSTALL FOUR ¾ INCH DIAMETER X 12 INCH MINIMUM LENGTH APPROVED J-BOLTS TO ANCHOR THE CABINET BASES. THE ANCHOR BOLTS SHALL BE GALVANIZED STEEL AND LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.
- 2. CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL, PRIOR TO CABINET INSTALLATION. LEVELING OF TOP SURFACES AFTER CONCRETE BASE HAS CURED SHALL ONLY BE ACCOMPLISHED BY GRINDING.
- 3. MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.
- 4. CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.
- 5. CONCRETE MAINTENANCE PLATFORM AND CABINET FOUNDATION FOR CABINET
- 6. WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.
- 7. CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 3 INCH.
- 8. MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.
- 9. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.
- 10, CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING
- 11. PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
- 12. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
- 13. ALL METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE BUSHINGS AND ALL NON METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE END BELLS.

TYPICAL DETAIL

CONCRETE BASE, CONTROLLER CABINET

ILLINOIS DEPARTMENT OF TRANSPORTATION FAI ROUTE 55 (1-80 TO U.S. 30) DYNAMIC MESSAGING SIGNS

CONCRETE FOUNDATION TYPE 1 DETAIL (FOR CABINET, MODEL 334)

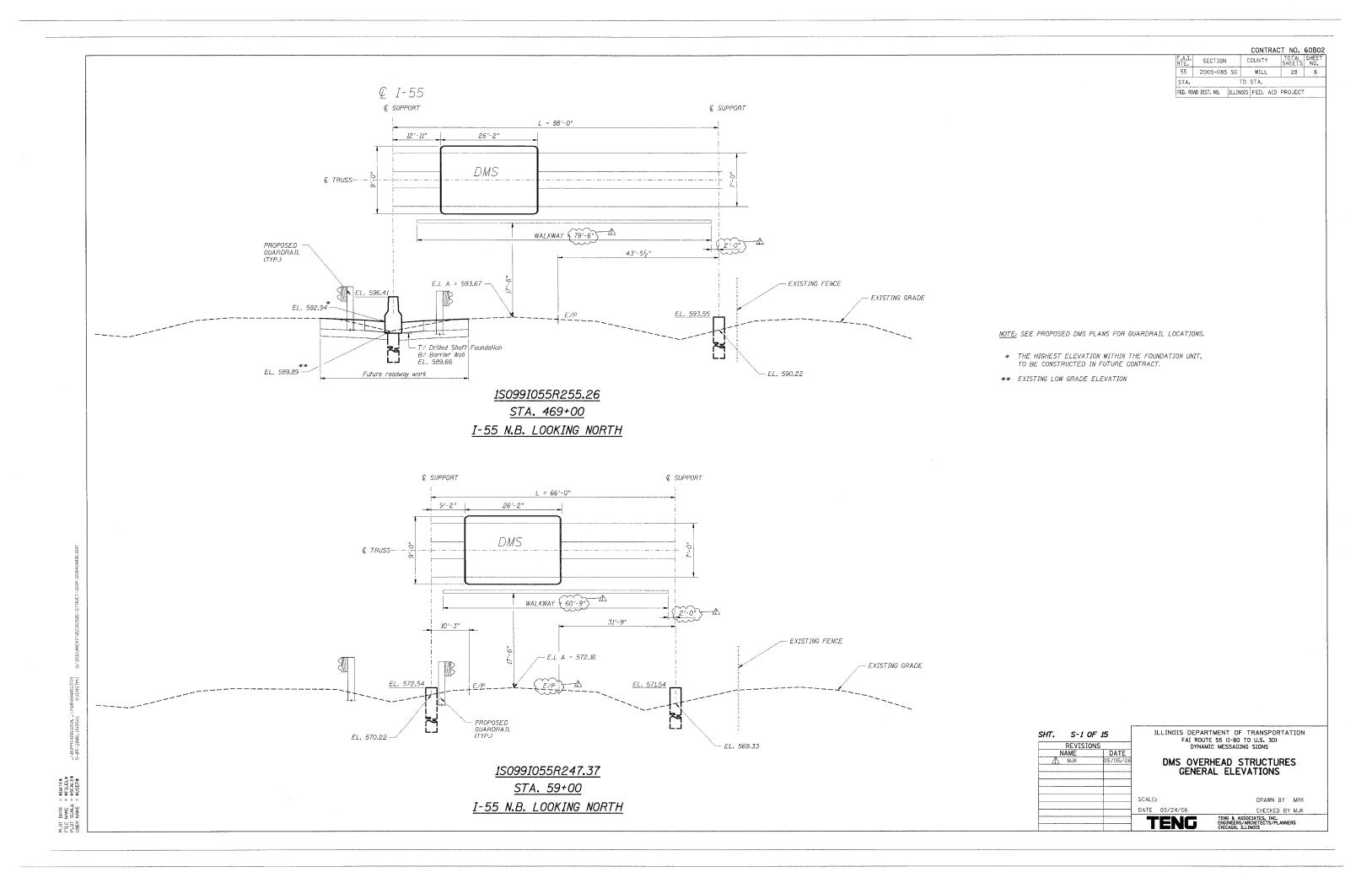
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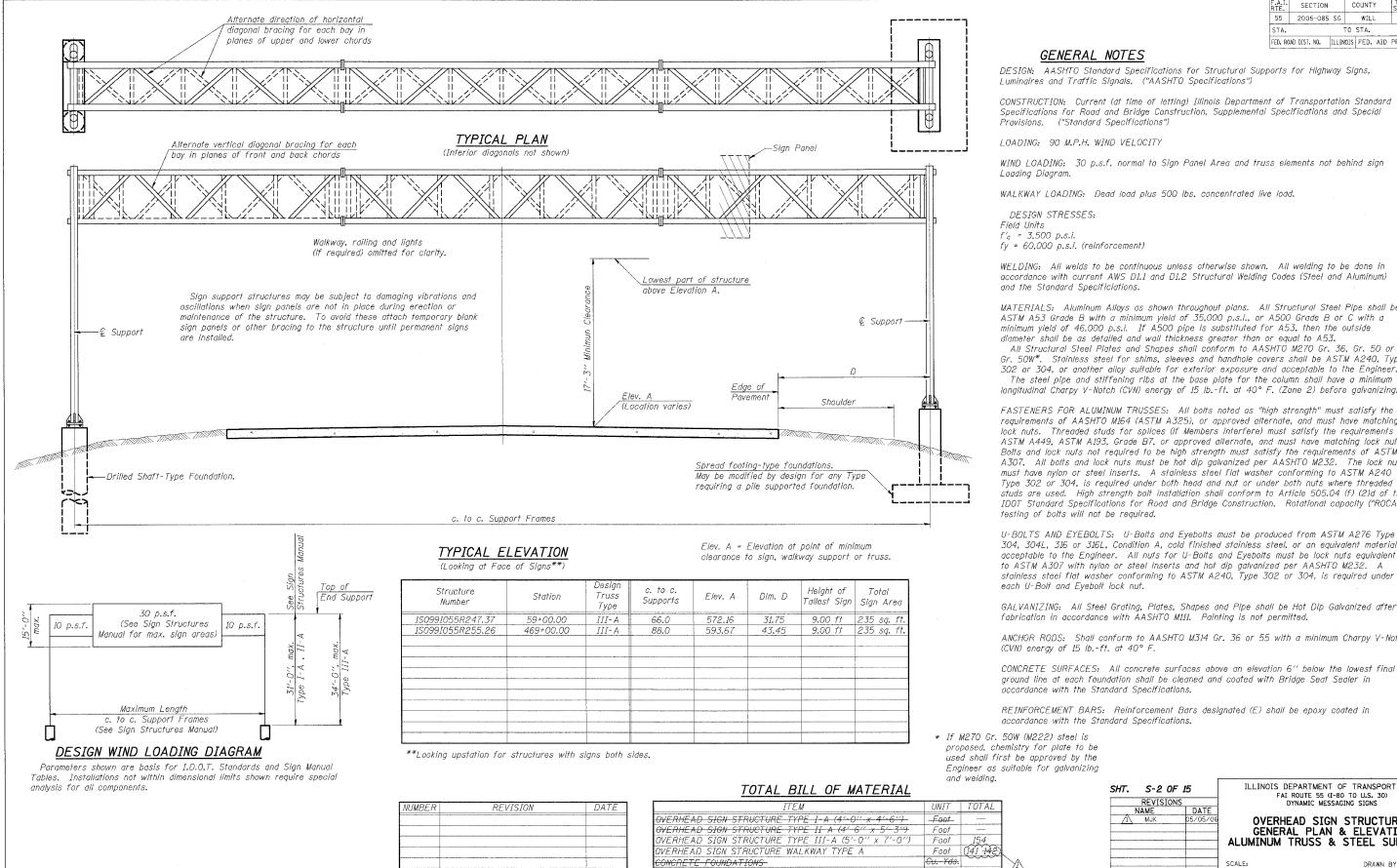
DATE 03/24/06

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⚠ ADDED SHEET

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0S-A-1

1-7-05

CONTRACT NO. 60B02 SECTION COUNTY 55 2005-085 SG WILL 28 9 STA. FED, ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs,

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum)

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.l., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be not dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP")

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in

| ITEM | UNIT | TOTAL |
|--|----------|-----------|
| OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6") | -Foot | |
| OVERHEAD SIGN STRUCTURE TYPE II A (4' 6" x 5' 3") | Foot | |
| OVERHEAD SIGN STRUCTURE TYPE III-A (5'-0" x 7'-0") | Foot | 154 |
| OVERHEAD SIGN STRUCTURE WALKWAY TYPE A | Foot | (141 142) |
| CONCRETE FOUNDATIONS | Cu. Yds. | |
| DRILLED SHAFT CONCRETE FOUNDATIONS | Cu. Yds. | 52.7 |
| ROCK EXCAVATION FOR STRUCTURES | Ču. Yďs. | ~~~~ |
| | | |

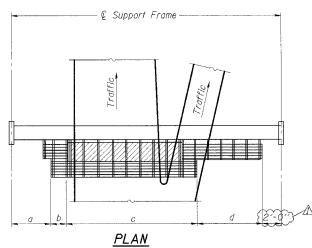
ILLINOIS DEPARTMENT OF TRANSPORTATION FAI ROUTE 55 (I-80 TO U.S. 30) DYNAMIC MESSAGING SIGNS

> OVERHEAD SIGN STRUCTURES **GENERAL PLAN & ELEVATION** ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: DATE 03/24/06 DRAWN BY MRK

CHECKED BY MJK





WALKWAY AND HANDRAIL SKETCH (Road plan beneath truss varies)

support and sign bracket Top of WF6x5.40 for walkway support only

TYPICAL FRONT ELEVATION

With handrail omitted for clarity. For Section B-B, see Base Sheet OS-A-10-DMS2 For Section B'-B', and B"-B", see Base Sheet OS-A-10a-DMS2 Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices, lowered handrail and DMS cabinet.

BRACKET TABLE

| WF6x5.40 ASTM B308, Alloy 6061-T6 | | | | | | |
|--------------------------------------|--------------------------|----------------------|--|--|--|--|
| Sign W | Vidth | Number | | | | |
| Greater Than | Less Than or Equal To | Brackets Required | | | | |
| | 8'-0" | 2 | | | | |
| 8'-0'' | 14'-0'' | 3 | | | | |
| 14'-0'' | 20'-0" | 4 | | | | |
| 20'-0'' | 26'-0'' | 5 | | | | |
| 26′-0′′ | 32'-0'' | 6 | | | | |

Walkway and Truss Grating width dimensions are nominal and may vary $\pm l_2 ''$ based on available standard widths.

r**▶**B′ 🍹 Truss Grating Splice WF6x5.40*7 **Safety Chain -WF6x5.40* —Safety Chain Handrail -- Handrail Safety Chain 4'-0" L Dynamic Message Sign Cabinet Handrail, see OS-A-11-DMS2 Min. Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of **₽**_{B″} SECTION A-A

Notes: *Space WF6x5.40 brackets for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to € of nearest bracket)

g = 12" maximum, 4" minimum (End of walkway grating to € of nearest support bracket) h = 6'-0'' maximum (Q to Q of walkway support brackets, WF6x5.40)

Maximum DMS weight = 4000LBS

OS-A-9-DMS2 1/7/2005

3'-9'' maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.

**If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11-DMS2

For Section B-B and Grating Splice Details see Base Sheet OS-A-10-DMS2. For Handrall Splice Details see Base Sheet OS-A-11-DMS2.

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

| DESIGNED | 19 |
|----------|--|
| CHECKED | EXAMINED |
| DRAWN | ENGINEER OF STRUCTURAL SERVICES PASSED |
| CHECKED | ENGINEER OF BRIDGES AND STRUCTURES |

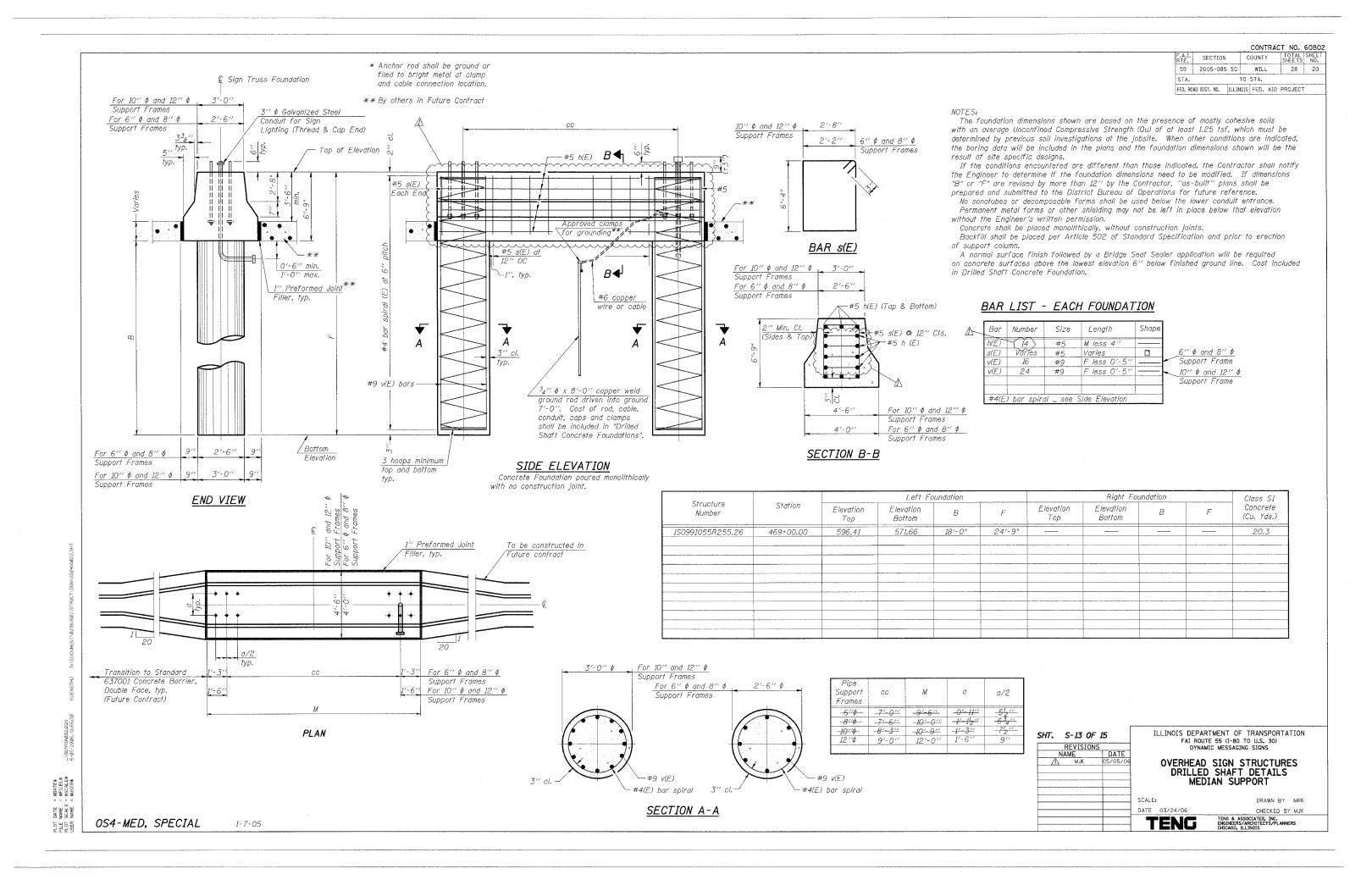
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| Market | | |
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| | | |

| Structure Number | Station | а | Þ | С | d | Walkway Grating and Handrail Lengths |
|--|---------|--------|-------|--------|----------|--|
| IS099I055R247.37 | 59+00 | 6'-8" | 2'-6" | 28'-8" | { 26'-2" | 61'-4" |
| 1S0991055R255.26 | 469+00 | 10'-5" | 2'-6" | 28'-8" | 44'-5" | 79′-7" } |
| The state of the s | | | | | | |
| | | | | | | |
| | | | | | | A AAAAAA AAAAAA AAAAAAAAAAAAAAAAAAAAAA |

| S-8 OF 15 | | ILLINOIS DEPARTMENT OF TRANSPORTATION FAI ROUTE 55 (I-80 TO U.S. 30) | | | | | | |
|-----------|---------|--|---|--|--|--|--|--|
| REVISIONS | 5 | DYNAMIO | C MESSAGING SIGNS | | | | | |
| NAME | DATE | | | | | | | |
| MJK | 5/05/06 | OVERHEAD | SIGN STRUCTURE | | | | | |
| | | | ALTERNATE ALUMINUM WALKWAY | | | | | |
| | | | ILS FOR DMS | | | | | |
| | | DETA | ILS FOR DIVIS | | | | | |
| | | | | | | | | |
| | | SCALE: | DRAWN BY MRK | | | | | |
| | | DATE 03/24/06 | CHECKED BY MJK | | | | | |
| | | TENG | TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS | | | | | |

SHT.

truss grating is included in "Overhead Sign



BORING LOG SB-01-02 Wang Engineering, INC Consulting Geotechnical and Datum: NGVD WEI Job No.: 555-11-01 Elevation: 569 14 ft wangeng3@wangeng.com North: 1740394.88 ft 1145 Main Street IDOT Project D-91-132-05 East: 1022151.70 ft Lombard, IL 60148 I-55 Improvements Project Station: 59+02.40 Telephone: 630 953-9928 Fax: 630 953-9938 Offset: 58.35 RT Will County, Illinois Location

STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CONTRACT NO. 60B02 COUNTY TOTAL SHEE NO.

28 21

SECTION 55 2005-085 SG WILL

SOIL AND ROCK SOIL AND ROCK DESCRIPTION DESCRIPTION 568.8 4-inch thick, brown CLAY LOAM Stiff, brown SILTY CLAY LOAM 1:00 31 <u>566.1</u> Medium dense to very dense, brown SANDY GRAVEL with 9 15 14 cobbles 24 26 21 NP NP 552,6 Stiff to very stiff, brown and gray SILTY CLAY with boulder Possible on top of Bedrock -AUGER REFLISAL **GENERAL NOTES** WATER LEVEL DATA Begin Drilling 03-20-2006 Complete Drilling While Drilling Drill Rig CME-75 ATV Precon Drilling Drilling Contractor At Completion of Drilling Driller J&L Logger S. Sugiarto Checked by CTF Time After Drilling Depth to Water Y NA Drilling Method 3.25 IDA HSA, Boring backfilled upon completion. The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual.

569.8 56-inch thick, brown SILTY CLAY Medium dense to dense, brown LOAM SILTY LOAM Stiff, brown SILTY CLAY <u>567.3</u> Medium dense to dense, brown, gravelly SANDY LOAM Boring terminated at 30.00 ft 28 29 37 38 Very stiff, gray CLAY **GENERAL NOTES** WATER LEVEL DATA Begin Drilling 03-23-2006 Complete Drilling 03-23-2006 White Drilling Precon Drilling Drill Rig CME-75 ATV At Completion of Drilling Logger K. Jacob Checked by MLS J&B Time After Drilling Depth to Water 🛂 NA Drilling Method 3.25 IDA HSA, Boring backfilled upon completion The stratification lines represent the approximate boundary between soil

SHT. S-14 OF 15

ILLINOIS DEPARTMENT OF TRANSPORTATION FAI ROUTE 55 (I-80 TO U.S. 30) DYNAMIC MESSAGING SIGNS

SOIL BORING LOGS - 1

DATE 03/24/06

DRAWN BY MRK CHECKED BY MJK

TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS

Page 1 of **BORING LOG SB09-01** Wang Engineering, INC. Datum: NGVD WEI Job No.: 555-11-01 Elevation: 589.10 ft wangeng3@wangeng.com North: 1780257.81 ft 1145 Main Street Illinois Department of Transportation Client East: 1026095.66 ft Lombard, IL 60148 I-55 Reconstuction Station: 469+01.86 Telephone: 630 953-9928 Will County, IL Fax: 630 953-9938 Location Offset: 2.73 RT SOIL AND ROCK SOIL AND ROCK DESCRIPTION DESCRIPTION 6-Inch thick, brown, SILTY 588.6 CLAY LOAM --TOPSOIL--Hard, gray CLAY LOAM 4.50 21 #FILL-<u>586.1</u> Very stiff, gray SILTY CLAY to --FILL--2.46 2.00 33 <u>581.1</u> Loose to medium dense, brown gravelly SANDY LOAM to gravelly SILTY LOAM 12 NP 12 12 MP 576.1 Very dense, gray, gravelly SILTY LOAM, with cobbles: weathered bedrock --AUGER REFUSAL--573.6 Boring terminated at 15.50 ft WATER LEVEL DATA **GENERAL NOTES** 13.50 ft 03-23-2006 03-23-2006 While Drilling Complete Drilling Begin Drilling Precon Drilling Drill Rig CME-75 ATV At Completion of Drilling 10.00 ft Drilling Contractor NA Driller J&L Logger K. Jacob Checked by CTF Time After Drilling Depth to Water Y NA
The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual. Drilling Method 3.25 IDA HSA, Boring backfilled upon completion

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BORING LOG SB09-02

WEI Job No.: 555-11-01

Client Illinois Department of Transportation
Project I-55 Reconstuction
Location Will County, IL

Page 1 of 1

Datum: NGVD

Elevation: 590.67 ft

North: 1780261.37 ft

East: 1026183.26 ft

Station: 469+02:21

Offset: 93.40 RT

| 57 Broffle | Elevation (ft) | SOIL DE | AND ROCK SCRIPTION | Depth (ft) | Sample Type | Sample No. | SPT Values (blw/6 in) | ou (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND R | | Depth (#) | Sample Type | Sample No. | (blw/6 in) | (tsf) | Moisture | |
|---|---|-------------------------|--|-------------------|-------------|------------|--------------------------|---------------------|-------------------------|---------|-------------------|--|----------|--------------|-------------|------------|------------|------------------|----------|--|
| 2 / / | 590.2 | 6-inch thic | ck, ASPHALT PAVEMEN | _{(T} /- | | | | | | | | | | | | | | | | |
| | ∥ ' | Very stiff, | black and brown | ~ 1 | 1 | | 2 | | | | | | | | | | | | | |
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| 7 | 587.7 | | -F) | | ķ | | 10 | | | ĺ | | | | | | | | | | |
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| | H | | | -5 | \Box | | | Р | | | | | | | | | | | | |
| 2 | 1 585.2 | Stiff, black | k and brown, gravel | lv | | | | | | | | | | | | | | | | |
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| - 44 | 581.4 |). | ù. | · · · · · · · · · | X | 4 | 2 8 | 1,00 | 9 | | | | | | | | | | | |
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| | 576.9 |). | AUGER REFUSA | ٦ 4L | ≫≪ | 6 | | NP. | 16 | l | | | | | | | | . | | |
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| Drilling Method 3.25 IDA HSA, Boring backfilled upon completion | | | | | | | | Depth to Water Y NA | | | | | | | | | | | | |
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| SHT. S-15 OF 15 | REVISIONS | NAME | DATE | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06 | D5/05/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
DYNAMIC MESSAGING SIGNS

SOIL BORING LOGS - 2

SCALE:

DATE 03/24/06

TENG

DRAWN BY MRK
CHECKED BY MJK
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLIMOTS

