

FOR INDEX OF SHEETS, SEE SHEET NO. 2

03-06-2020 LETTING ITEM 004

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

| | | | | |
|-------------|----------------|-------------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 1 |
| | | ILLINOIS | CONTRACT NO. 61E69 | |



BY: Eric Neubaier DATE: 11/25/2019
 HDR, INC.
 DWGS. 1-12, 25-37
 LICENSE EXPIRES NOV. 30, 2021



BY: Marc Krop DATE: 11/25/2019
 HDR, INC.
 DWGS. 13-15, 20-21, 24
 LICENSE EXPIRES NOV. 30, 2020



BY: Jane Chen DATE: 11/25/2019
 ALTAMANI, INC.
 DWGS. 16-19, 22-23
 LICENSE EXPIRES AUG. 31, 2021

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 345A IL ROUTE 390
 (ELGIN O'HARE WESTERN ACCESS TOLLWAY)
 AT VARIOUS LOCATIONS
 LANDSCAPING AND SCENIC BEAUTIFICATION
 SECTION 14-00245-05-LS
 PROJECT USYC(144)

COOK AND DUPAGE COUNTIES
 JOB NO.: C-91-400-16



PROJECT LOCATED IN THE VILLAGES
OF HANOVER PARK, ROSELLE, AND ITASCA

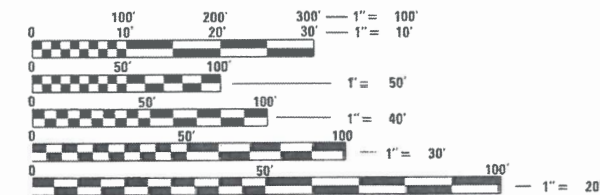
DESIGN DESIGNATION:

- IL-390: EXPRESSWAY
- US ROUTE 20: OTHER PRINCIPAL ARTERIAL
- ROSELLE ROAD: OTHER PRINCIPAL ARTERIAL
- PLUM GROVE ROAD: MAJOR COLLECTOR
- ROHLWING ROAD: MINOR ARTERIAL

**TRAFFIC DATA
(ADT) (2016)**

POSTED / DESIGN SPEED

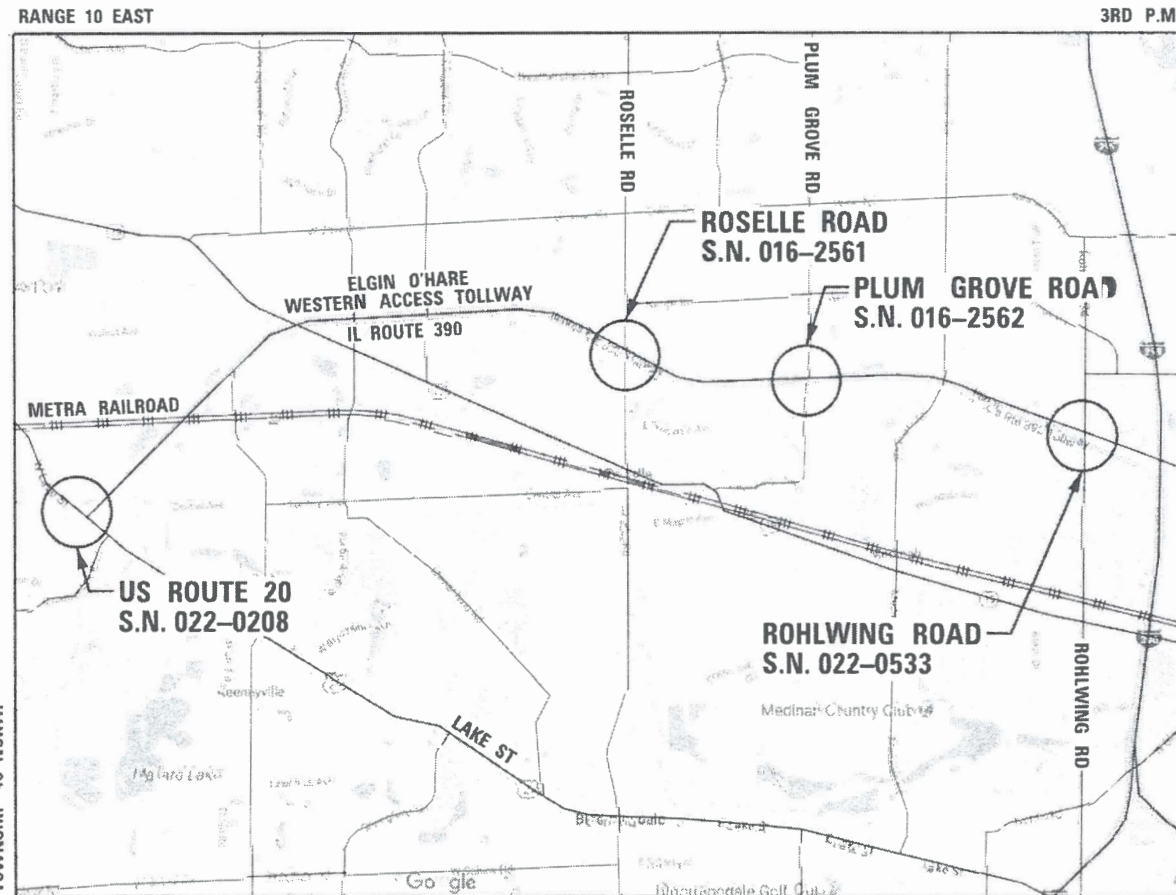
- | | |
|----------------------------|------------------------------|
| IL-390: 69,200 VPD | IL-390: 55 / 60 MPH |
| US ROUTE 20: 38,000 VPD | US ROUTE 20: 40 / 45 MPH |
| ROSELLE ROAD: 25,700 VPD | ROSELLE ROAD: 40 / 45 MPH |
| PLUM GROVE ROAD: 8,200 VPD | PLUM GROVE ROAD: 30 / 35 MPH |
| ROHLWING ROAD: 18,500 VPD | ROHLWING ROAD: 40 / 45 MPH |



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811
 MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR
 LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES
 1-773-287-7672

HDR
 9450 W. Bryn Mawr Ave., Suite 400
 Rosemont, IL 60018
 773-380-7900
 HDR, Inc.
 DESIGN FIRM REGISTRATION NUMBER 184.001070



BLOOMINGDALE TOWNSHIP

LOCATION MAP
 SCALE = N.T.S.

GROSS LENGTH = N/A
 NET LENGTH = N/A

| | |
|---|--|
| STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | |
| APPROVED <u>December 11, 2019</u> | <u>[Signature]</u> DUPAGE COUNTY |
| PASSED <u>December 11, 2019</u> | <u>[Signature]</u> DISTRICT 1 ENGINEER OF LOCAL ROADS |
| RELEASED FOR BID BASED ON LIMITED REVIEW <u>December 12, 2019</u> | <u>[Signature]</u> REGIONAL ENGINEER |

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, ILLINOIS

CONTRACT NO. 61E69

INDEX OF SHEETS

1. COVER SHEET, LOCATION MAP
2. INDEX OF SHEETS AND GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. EARTHWORK SCHEDULE
5. PROPOSED TYPICAL SECTIONS - LAKE STREET (US-20)
6. PROPOSED TYPICAL SECTIONS - ROSELLE ROAD
7. PROPOSED TYPICAL SECTIONS - ROHLWING ROAD
- 8-9. LANDSCAPE PLAN - LAKE STREET (US-20)
10. LANDSCAPE PLAN - ROSELLE ROAD
11. LANDSCAPE PLAN - PLUM GROVE ROAD
12. LANDSCAPE PLAN - ROHLWING ROAD
13. GENERAL PLAN AND ELEVATION - LAKE STREET (US-20)
14. GENERAL PLAN AND ELEVATION - ROSELLE ROAD
15. GENERAL PLAN AND ELEVATION - PLUM GROVE ROAD
- 16-18. STEEL FENCE PANEL DETAIL
19. GATEWAY MONUMENT SIGN DETAIL
- 20-21. GATEWAY MONUMENT SIGN STRUCTURAL DETAIL
- 22-23. VERTICAL IDENTIFIER SIGN DETAIL
24. VERTICAL IDENTIFIER SIGN STRUCTURAL DETAIL
25. PLANTING DETAILS AND SCHEDULE
26. LIGHTING DETAIL
27. BRIDGE FENCE RAILING, PARAPET MOUNTED DETAIL
- 28-30. DISTRICT ONE DETAILS
- 31-37. TOLLWAY DETAILS

INDEX OF HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER, OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES

INDEX OF DISTRICT ONE DETAILS

- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- TC-22 ARTERIAL ROAD INFORMATION SIGN

TOLLWAY STANDARDS

- E1-07 CONSTRUCTION SIGNS
- E2-08 LANE CLOSURE DETAILS
- E3-07 SHOULDER CLOSURE DETAILS
- E5-08 TEMPORARY GORE DETAILS

GENERAL CONSTRUCTION NOTES

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A FIELD OFFICE WITHIN CONTRACT LIMITS ON STATE, ILLINOIS TOLLWAY OR OTHER PUBLIC RIGHT OF WAY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

THE CONTRACTOR'S SUPERINTENDENT OR DESIGNEE MUST BE ON THE CONSTRUCTION SITE DURING THE WORKING HOURS WHILE THIS PROJECT IS IN PROGRESS. THE CONTRACTOR'S SUPERINTENDENT MUST BE THE DESIGNATED RESPONSIBLE CONTRACTOR REPRESENTATIVE AND MUST BE AVAILABLE IN CASE OF EMERGENCIES ON A TWENTY-FOUR (24) HOUR BASIS.

THE CONTRACTOR MUST COORDINATE OFF-SITE HAUL AND ACCESS ROUTES WITH THE PARTY HAVING JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL AND ACCESS ROUTES MUST BE MAINTAINED BY THE CONTRACTOR AND MUST BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. FENCING, DRAINAGE, GRADING, RESURFACING, OR OTHER WORK NECESSARY TO CONSTRUCT AND MAINTAIN HAUL ROUTES IS THE CONTRACTOR'S RESPONSIBILITY AND MUST BE APPROVED BY THE ENGINEER PRIOR TO THE WORK. ANY RESTORATION SEEDING MUST INCLUDE THE USE OF SEED MIXES DEVELOPED FOR THE CORRIDOR AND APPROVED BY THE USDA.

STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, WETLAND BUFFERS, AND FLOOD PLAINS. LOCATIONS OF STOCKPILES MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.

ALL STORM SEWER FACILITIES WITH OPEN LIDS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED OR FILTERED. ALL DRAINAGE STRUCTURES THAT HAVE OPEN LIDS IN PAVEMENT AREAS SHALL BE PROTECTED WITH INLET FILTERS (28000510).

THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREAS AS THE PROJECT PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING PAVEMENT OR PROPERTY DAMAGED DURING CONSTRUCTION OPERATIONS BY CONTRACTOR'S FORCES INCLUDING SUBCONTRACTORS.

THE CONTRACTOR SHALL BE MADE AWARE THAT ALL CONSTRUCTION VEHICLES SHALL BE LIMITED TO A MAXIMUM OF 15 FEET ABOVE EXISTING GRADE WHILE CROSSING UNDER COMMONWEALTH EDISON'S TRANSMISSION LINES AND COMPLY WITH OSHA AND COMED CLEARANCE REQUIREMENTS.

FENCE: EXISTING FENCE THAT HAS TO BE DISCONNECTED AND/OR REMOVED FOR THE CONTRACTOR'S OPERATION SHALL BE RECONNECTED AND/OR REPLACED BY THE CONTRACTOR IN KIND AT NO ADDITIONAL COST TO THE ILLINOIS TOLLWAY. TEMPORARY FENCE SHOULD BE INSTALLED IF EXISTING FENCE IS TO BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 664 OF THE STANDARD SPECIFICATIONS. ANY RIGHT-OF-WAY MARKERS DISTURBED BY THE CONTRACTOR'S OPERATION SHOULD BE REESTABLISHED BY A REGISTERED LAND SURVEYOR.

ALL ELEVATIONS ARE BASED ON UNITED STATES COAST AND GEODETIC SURVEY DATUM.

AT THE TIME OF THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE STORM SEWER OR DITCH SYSTEMS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL FIBER OPTIC UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATE PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST TOLLWAY UTILITIES LOCATE" FORM FILLED ON-LINE ON THE ILLINOIS TOLLWAY WEBSITE UNDER "DOING BUSINESS / CONSTRUCTION AND ENGINEERING / PERMITS AND UTILITY INFORMATION" AT LEAST FOUR (4) DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS, EXCAVATIONS OR DIGGING OF ANY TYPE IN GENERAL AREA OF THE FIBER OPTIC CABLE.

EXISTING TOPSOIL DEPTH IS ESTIMATED TO BE SIX (6) INCHES. THE PROPOSED TOPSOIL SHALL BE PLACED TO A DEPTH OF SIX (6) INCHES. THE ACTUAL DEPTH OF TOPSOIL SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER.

NO WORK SHALL BE PERFORMED OVER LIVE TRAFFIC LANES. NO DAYTIME CLOSURES SHALL BE PERMITTED. ONLY NIGHT TIME OPERATIONS SHALL BE PERMITTED.

ALL TOLLWAY LANE CLOSURES SHALL CONFORM TO THE MAINTENANCE OF TRAFFIC (ILLINOIS TOLLWAY) SPECIAL PROVISION AND APPLICABLE TOLLWAY STANDARDS.

TREE AND BRANCHES

THE CONTRACTOR SHALL NOT REMOVE ANY TREES OR BRANCHES ON TOLLWAY RIGHT-OF-WAY WITHOUT PRIOR APPROVAL BY THE ILLINOIS TOLLWAY LANDSCAPE ARCHITECT.

CONTRACTOR SHALL NOT DAMAGE ANY TREES OUTSIDE OF THE WORK LIMITS. IF ANY EXISTING TREES ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL REPLACE THE TREE IN KIND.

USE OF WATER

THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONSTRUCTION SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS/HER YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO USE OF THE WATER.

SPECIAL PROJECT NOTES

THE CONTRACTOR SHALL BE ALERT TO POST ALL NECESSARY SIGNAGE, HAVE FLAGGERS AT LOCATIONS OF RESTRICTED LANE OPERATIONS, AND TAKE DOWN THE SIGNAGE WHEN THE WORK IS COMPLETED IN ACCORDANCE WITH THE TRAFFIC CONTROL PROVISIONS OF SECTION 700, 701 AND 702.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

ALL UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT Kalpana.Kannan-Hosadurga@Illinois.gov AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK.

ROADWAY JURISDICTIONS:

- ELGIN O'HARE WESTERN ACCESS TOLLWAY (IL-390): ILLINOIS STATE TOLL HIGHWAY AUTHORITY
- US-20/LAKE STREET: IDOT
- ROSELLE ROAD: COOK COUNTY
- PLUM GROVE ROAD: COOK COUNTY
- ROHLWING ROAD: IDOT

| | | | | | | | | | |
|--|------------------|-----------|---|--|---------------------------|----------------|-------------|--------------|-----------|
| DUPAGE COUNTY DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD WHEATON, IL | DESIGNED - AS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS AND GENERAL NOTES | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - RR | REVISED - | | | 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 2 |
| | CHECKED - EN | REVISED - | | | CONTRACT NO. 61E69 | | | | |
| | DATE - 6/10/2019 | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |

SCALE: NTS

| SPECIALTY ITEM | SPECIAL PROVISIONS | CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY |
|----------------|--------------------|-------------|--|-------|----------------|
| | | 20101100 | TREE TRUNK PROTECTION | EACH | 1 |
| | | 20200100 | EARTH EXCAVATION | CU YD | 23 |
| | | 21101505 | TOPSOIL EXCAVATION AND PLACEMENT | CU YD | 3 |
| | | 28000305 | TEMPORARY DITCH CHECKS | FOOT | 10 |
| | | 28000400 | PERIMETER EROSION BARRIER | FOOT | 485 |
| | | 28000510 | INLET FILTERS | EACH | 6 |
| | | 50200100 | STRUCTURE EXCAVATION | CU YD | 81 |
| | | 50300225 | CONCRETE STRUCTURES | CU YD | 30 |
| | | 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 7,280 |
| + | | 50901730 | BRIDGE FENCE RAILING | FOOT | 300 |
| | | 51603000 | DRILLED SHAFT IN SOIL | CU YD | 17 |
| | | 58700300 | CONCRETE SEALER | SO FT | 707 |
| | | 67100100 | MOBILIZATION | L SUM | 1 |
| | * | 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 |
| | * | 70102630 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 | L SUM | 1 |
| | * | 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 |
| | | 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L SUM | 1 |
| | | 70300904 | PAVEMENT MARKING TAPE, TYPE IV 4" | FOOT | 5,000 |
| + | | A2004520 | TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 10 |
| + | | A2006520 | TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 7 |
| + | | A2006618 | TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 19 |
| + | | A2008470 | TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 10 |
| + | | C2C00524 | SHRUB, ARNIA MELANOCARPA (BLACK CHOKE BERRY), 2' HEIGHT, CONTAINER | EACH | 108 |
| + | | C2C01120 | SHRUB, CEPHALANTHUS OCCIDENTALIS (BUTTON BUSH), 2' HEIGHT, CONTAINER | EACH | 22 |

| SPECIALTY ITEM | SPECIAL PROVISIONS | CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY |
|----------------|--------------------|-------------|---|--------|----------------|
| + | | C2C03620 | SHRUB, HYDRANGEA PANICULATA LITTLE LIME (LITTLE LIME HYDRANGEA), 2' HEIGHT, CONTAINER GROWN | EACH | 90 |
| + | | C2C03724 | SHRUB, HYPERICUM KALMIANUM (KALM ST. JOHNSWORT), 2' HEIGHT, CONTAINER | EACH | 264 |
| + | | C2C048G5 | SHRUB, PHYSOCARPUS OPULIFOLIUS (COMMON NINEBARK), CONTAINER GROWN, 5-GALLON | EACH | 40 |
| + | | C2C058G2 | SHRUB, RHUS AROMATICA GRD-LOW (GRD-LOW FRAGRANT SUMAC), CONTAINER GROWN, 2-GALLON | EACH | 18 |
| + | | D2C03524 | EVERGREEN, TAXUS X MEDIA DENSIFORMIS (DENSE ANGLOJAPANESE YEW), 2' WIDTH, CONTAINER | EACH | 74 |
| + | | D2001988 | EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED | EACH | 10 |
| + | | K0012992 | PERENNIAL PLANTS, ORNAMENTAL TYPE, 2-GALLON POT | UNIT | 7 |
| + | * | K0029632 | WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL | GALLON | 0.2 |
| + | * | K0029634 | WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE | POUND | 75 |
| | * | X0320015 | MAINTENANCE OF TRAFFIC (ILLINOIS TOLLWAY) | LSUM | 1 |
| + | * | X0320060 | GATEWAY MONUMENT SIGN COMPLETE | EACH | 1 |
| + | * | X0322955 | WEED CONTROL SELECTIVE (WOODY PLANTS & BROADLEAF) | GALLON | 0.2 |
| + | * | X1400225 | SOLAR LED LIGHTING UNIT COMPLETE | EACH | 7 |
| | * | X7030005 | TEMPORARY PAVEMENT MARKING REMOVAL | SO FT | 1,700 |
| + | * | XX007181 | VERTICAL IDENTIFIER | EACH | 4 |
| + | * | XX007465 | STEEL FENCE PANELS | FOOT | 1,204 |
| | * | Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 |
| | * | Z0022800 | FENCE REMOVAL | FOOT | 300 |
| | * | Z0030850 | TEMPORARY INFORMATION SIGNING | SO FT | 130 |
| | * | Z0064800 | SELECTIVE CLEARING | UNIT | 10 |
| # | * | Z0076600 | TRAINEES | HOURL | 500 |
| # | * | Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE | HOURL | 500 |
| + | * | D2C01030 | EVERGREEN, JUNIPERUS HORIZONTALIS ANDORRA (ANDORRA CREEPING JUNIPER), 24" WIDTH, CONTAINER | EACH | 67 |

CONSTRUCTION TYPE CODE 0042

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WREATON, IL

DESIGNED - AS
DRAWN - RR
CHECKED - EN
DATE - 6/10/2019

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|---------------------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 3 |
| CONTRACT NO. 61E69 | | | ILLINOIS FED. AID PROJECT | |

| EARTHWORK SCHEDULE | | |
|--|---|---|
| LOCATION | EARTH EXCAVATION (20200100) (CU YD) | TOPSOIL EXCAVATION AND PLACEMENT (21101505) (CU YD) |
| WB IL-390 EXIT RAMP AT LAKE STREET (US ROUTE 20) | 2.4 | 0.3 |
| EB IL-390 ENTRANCE RAMP AT LAKE STREET (US ROUTE 20) | 13.3 | 1.4 |
| EB IL-390 EXIT RAMP AT ROSELLE ROAD | 2.4 | 0.3 |
| WB IL-390 EXIT RAMP AT ROSELLE ROAD | 2.4 | 0.3 |
| WB IL-390 AT ROHLWING ROAD | 2.4 | 0.3 |
| TOTAL | 23 | 3 |

NOTE: EXCAVATED MATERIAL SHALL NOT BE HAULED OFF SITE. EXCAVATED MATERIAL SHALL REMAIN ON SITE AND BE PLACED BEHIND THE PROPOSED SIGNS OR AT A LOCATION APPROVED BY THE ENGINEER.

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

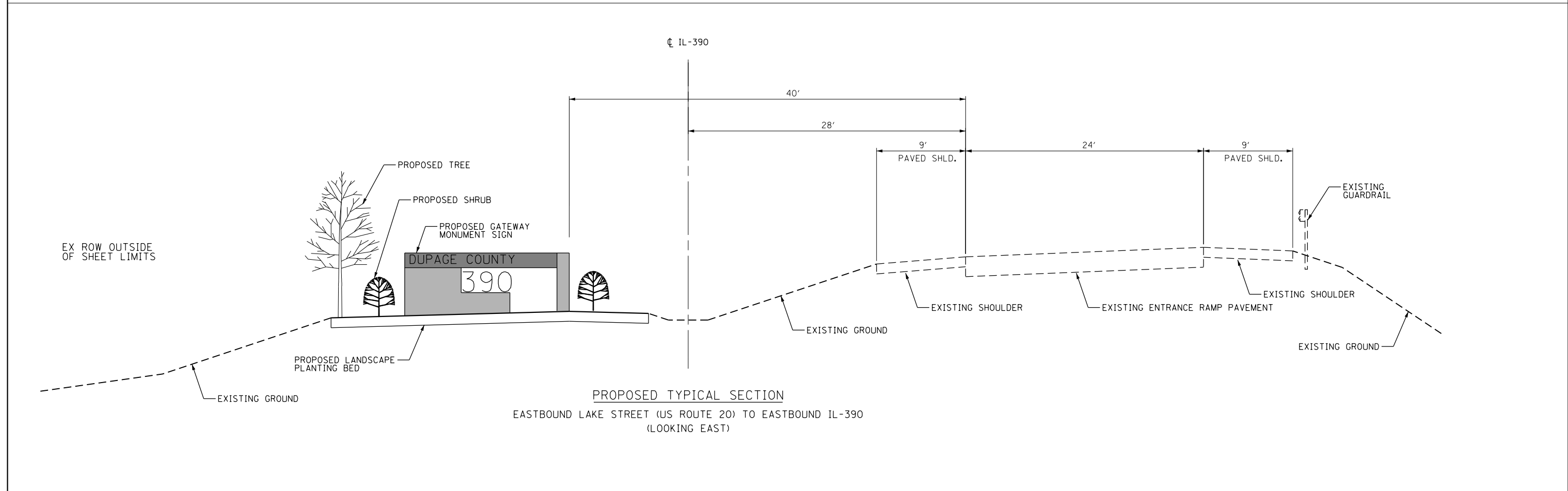
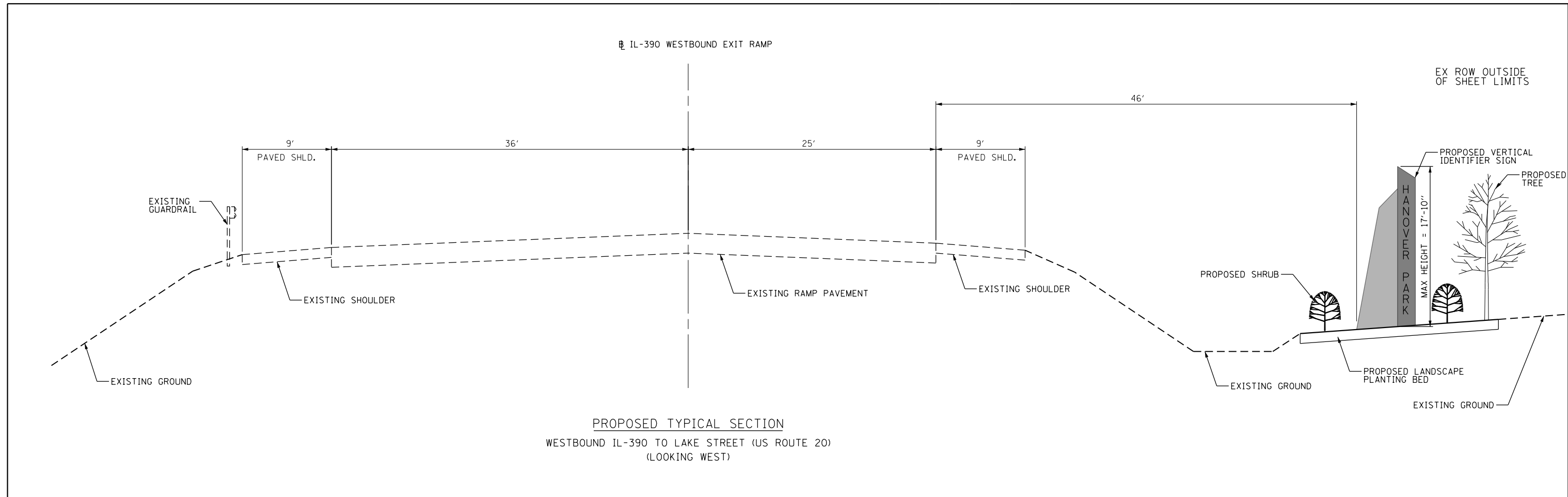
| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

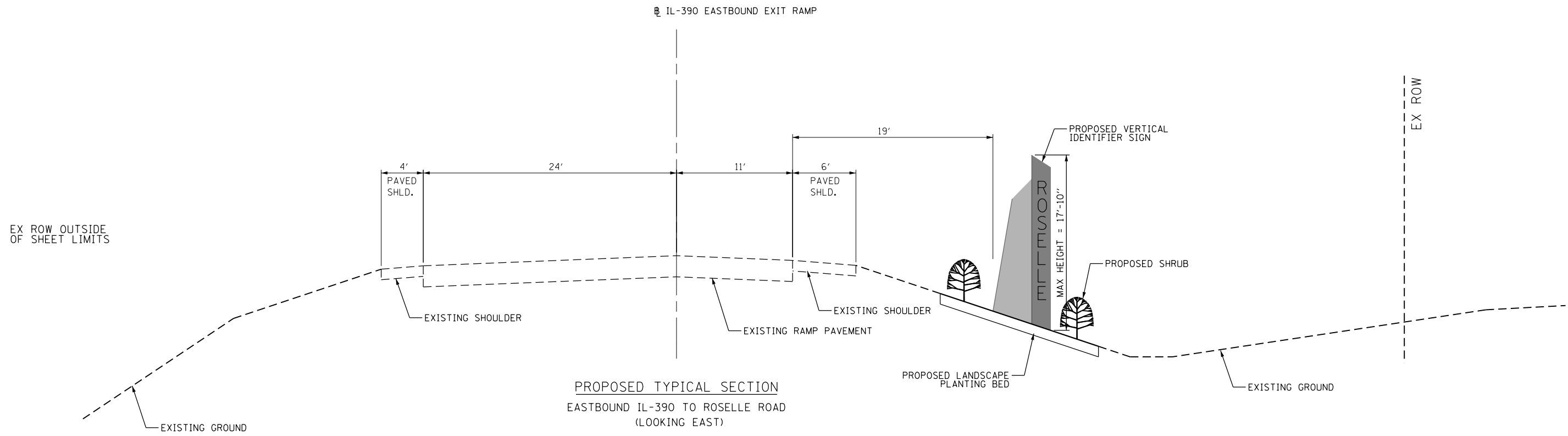
EARTHWORK SCHEDULE

SCALE: NTS

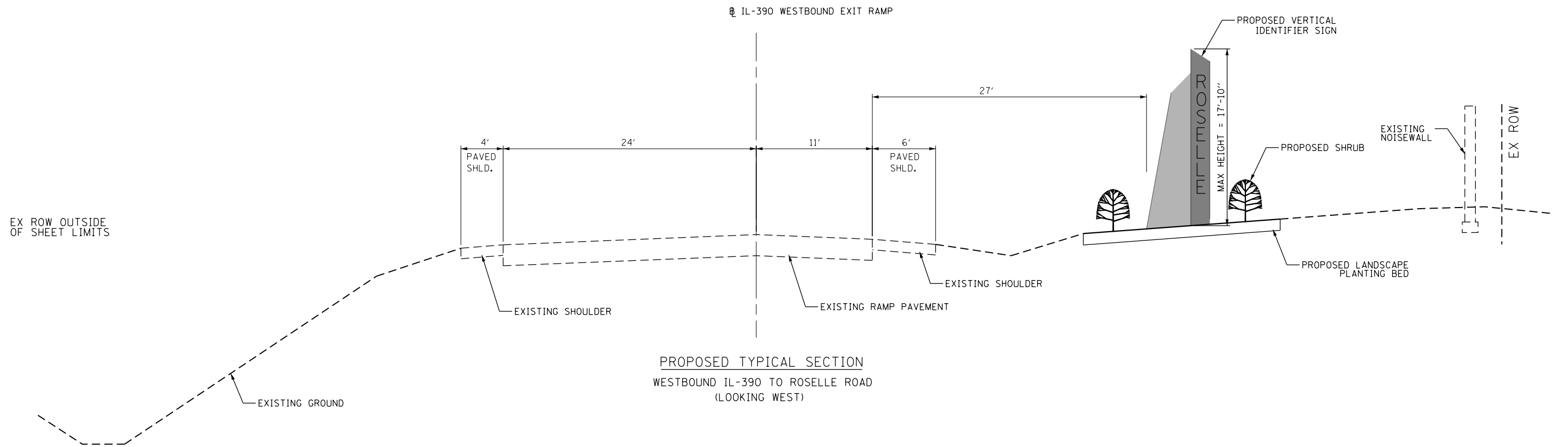
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-------------|--------------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 4 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 61E69 | |



| | | | | | | | | | |
|--|------------------|-----------|---|--|---------------------------|----------------|-------------|--------------|-----------|
| DUPAGE COUNTY DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD WHEATON, IL | DESIGNED - AS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PROPOSED TYPICAL SECTIONS LAKE STREET (US-20) | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - RR | REVISED - | | | 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 5 |
| | CHECKED - EN | REVISED - | | | CONTRACT NO. 61E69 | | | | |
| | DATE - 6/10/2019 | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |



PROPOSED TYPICAL SECTION
EASTBOUND IL-390 TO ROSELLE ROAD
(LOOKING EAST)



PROPOSED TYPICAL SECTION
WESTBOUND IL-390 TO ROSELLE ROAD
(LOOKING WEST)

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

DESIGNED - AS
DRAWN - RR
CHECKED - EN
DATE - 6/10/2019

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

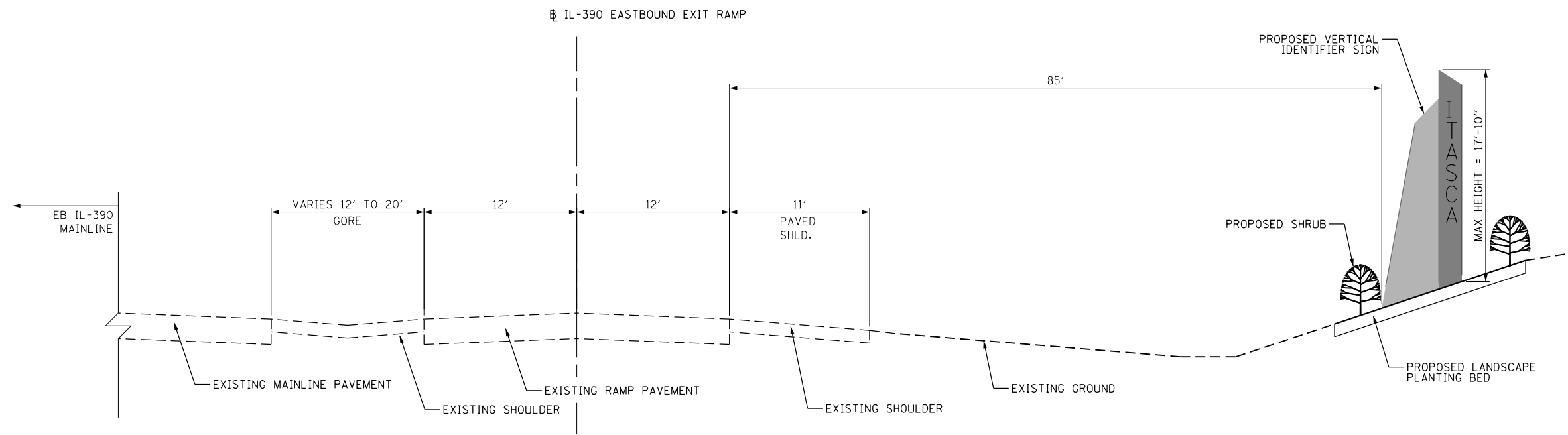
SCALE: NTS

PROPOSED TYPICAL SECTIONS
ROSELLE ROAD

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 6 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT

EX ROW OUTSIDE
OF SHEET LIMITS



PROPOSED TYPICAL SECTION
EASTBOUND IL-390 TO SOUTHBOUND I-290
(LOOKING EAST)

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

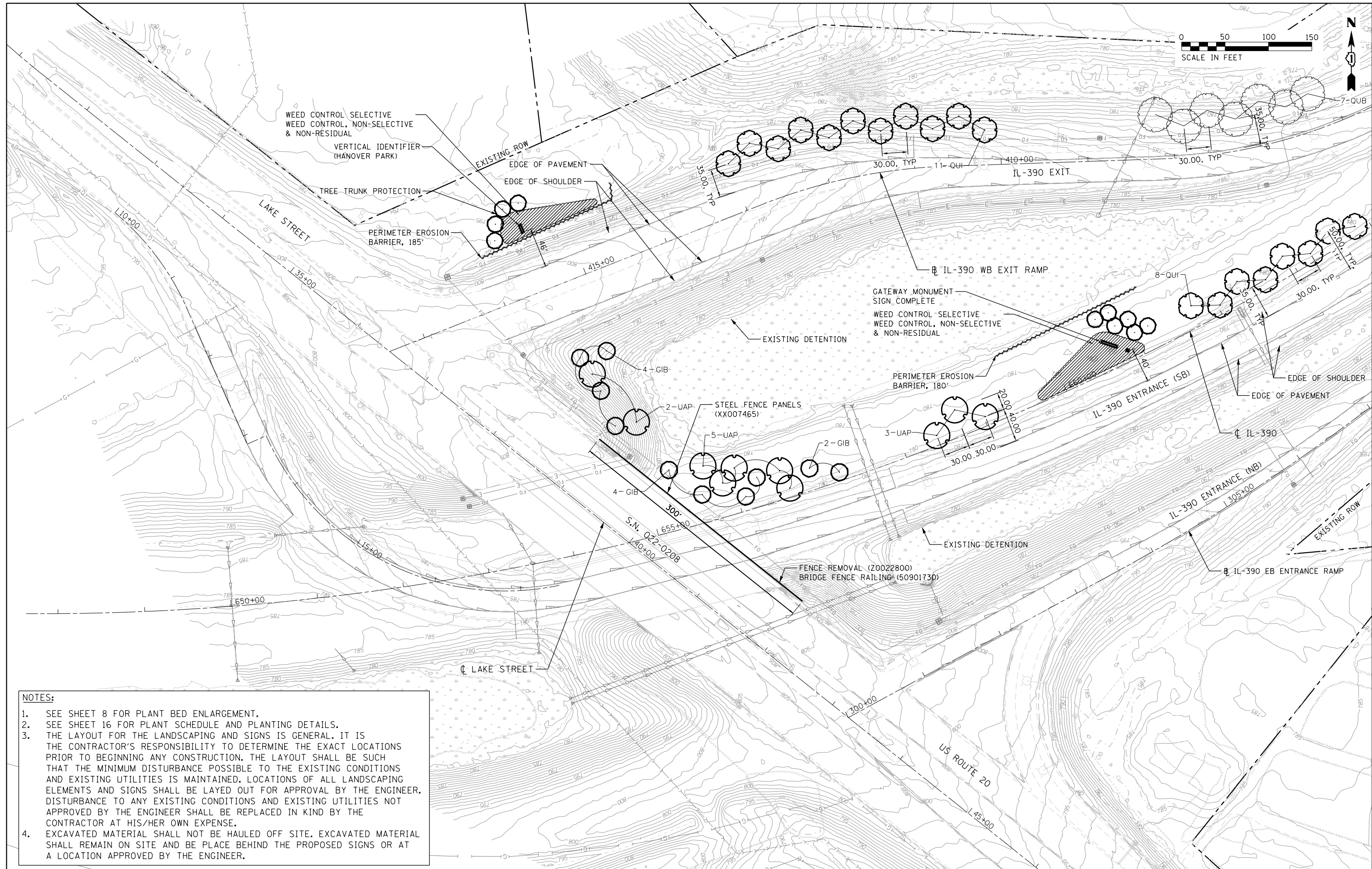
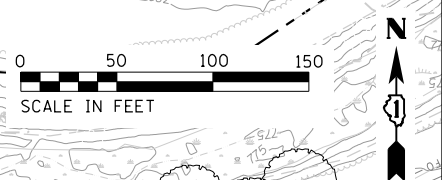
| | | | | |
|----------|---|-----------|---------|---|
| DESIGNED | - | AS | REVISED | - |
| DRAWN | - | RR | REVISED | - |
| CHECKED | - | EN | REVISED | - |
| DATE | - | 6/10/2019 | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
ROHLWING ROAD

SCALE: NTS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-------------|--------------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 7 |
| | | | CONTRACT NO. 61E69 | |
| ILLINOIS FED. AID PROJECT | | | | |



- NOTES:**
- SEE SHEET 8 FOR PLANT BED ENLARGEMENT.
 - SEE SHEET 16 FOR PLANT SCHEDULE AND PLANTING DETAILS.
 - THE LAYOUT FOR THE LANDSCAPING AND SIGNS IS GENERAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS PRIOR TO BEGINNING ANY CONSTRUCTION. THE LAYOUT SHALL BE SUCH THAT THE MINIMUM DISTURBANCE POSSIBLE TO THE EXISTING CONDITIONS AND EXISTING UTILITIES IS MAINTAINED. LOCATIONS OF ALL LANDSCAPING ELEMENTS AND SIGNS SHALL BE LAYED OUT FOR APPROVAL BY THE ENGINEER. DISTURBANCE TO ANY EXISTING CONDITIONS AND EXISTING UTILITIES NOT APPROVED BY THE ENGINEER SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
 - EXCAVATED MATERIAL SHALL NOT BE HAULED OFF SITE. EXCAVATED MATERIAL SHALL REMAIN ON SITE AND BE PLACE BEHIND THE PROPOSED SIGNS OR AT A LOCATION APPROVED BY THE ENGINEER.

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

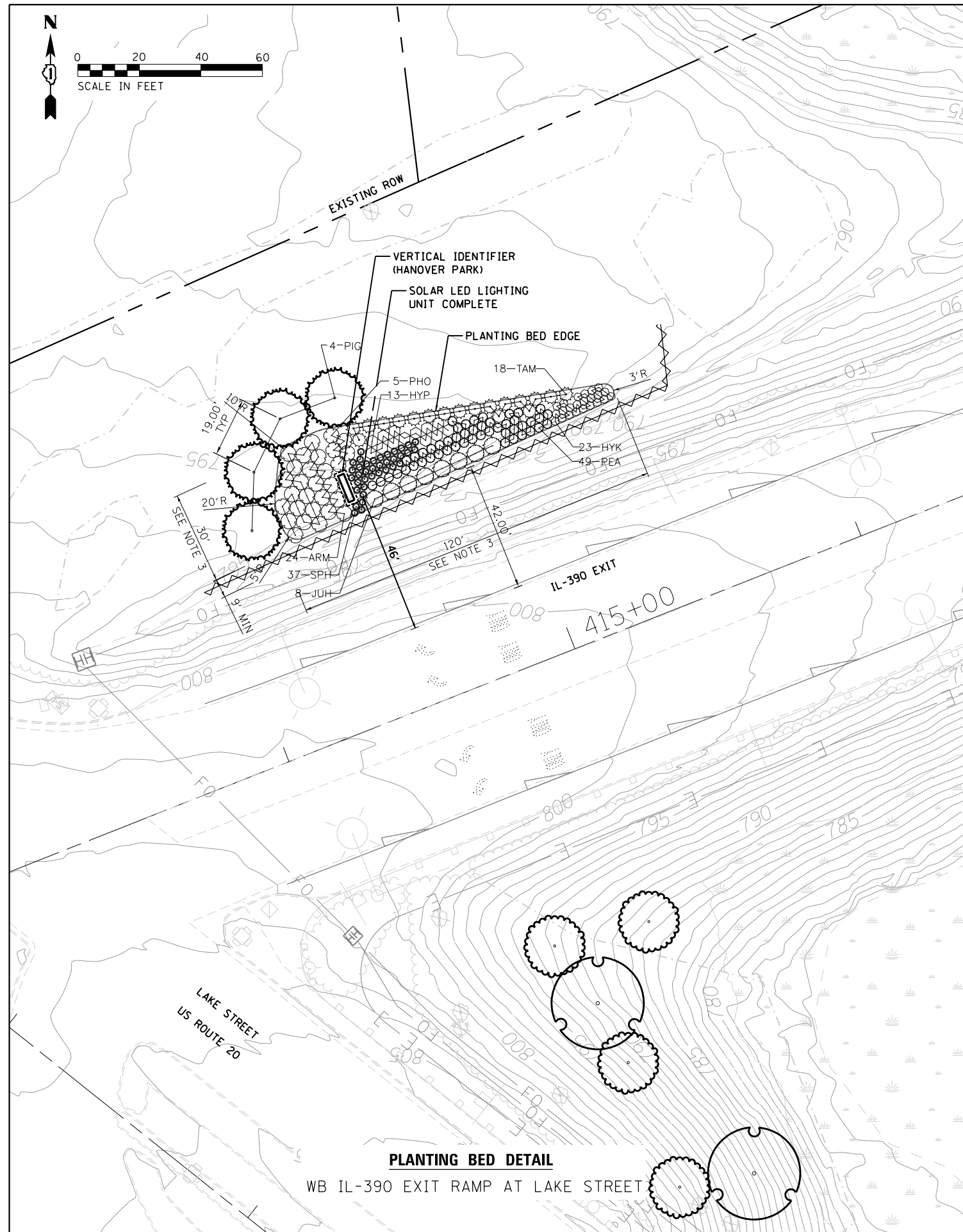
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLAN
LAKE STREET (US-20)**

SCALE: 1" = 50'

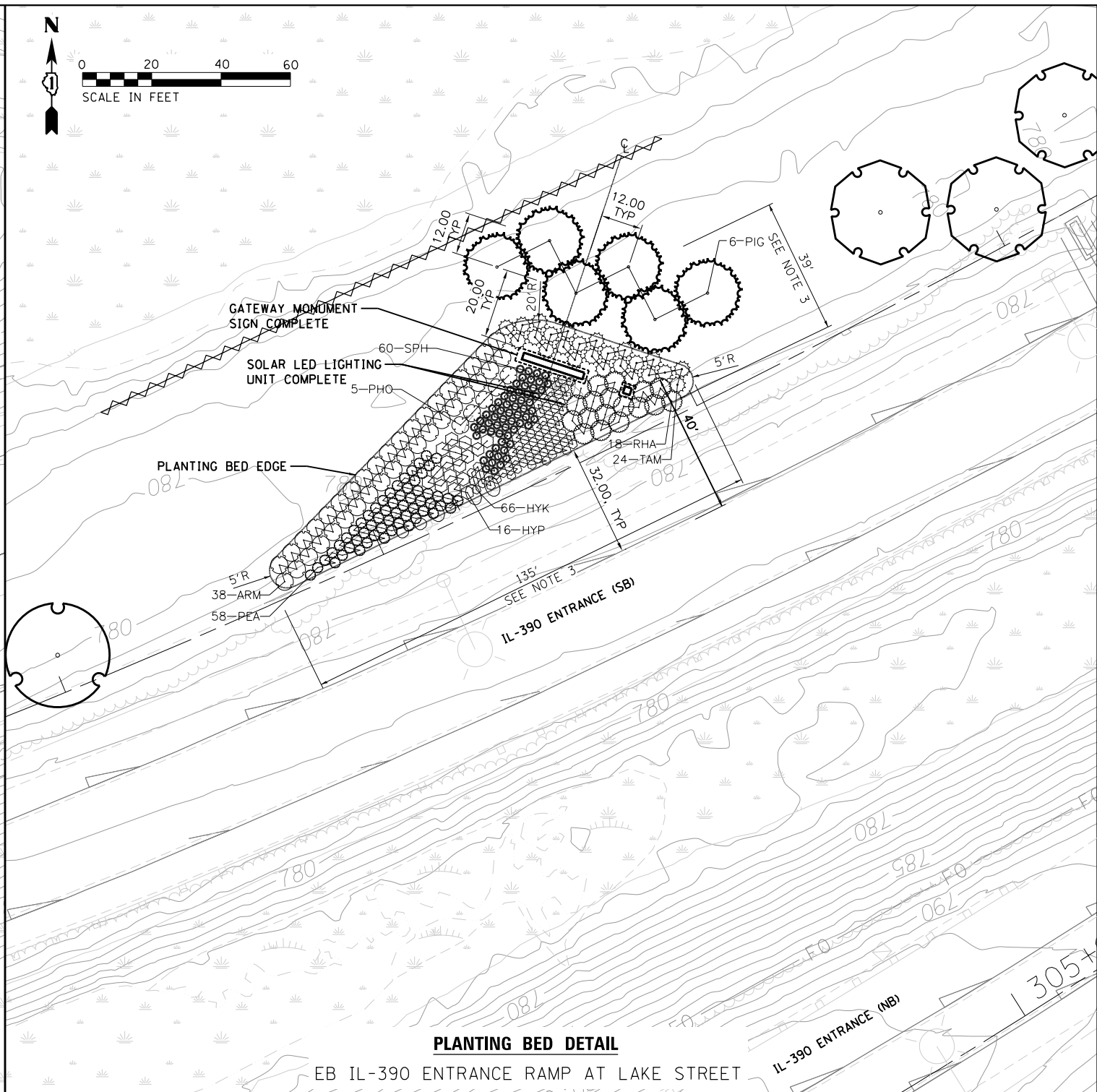
| | | | | |
|--------------------|----------------|-------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 8 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT



PLANTING BED DETAIL

WB IL-390 EXIT RAMP AT LAKE STREET



PLANTING BED DETAIL

EB IL-390 ENTRANCE RAMP AT LAKE STREET

NOTES:

1. SEE SHEET 16 FOR PLANT SCHEDULE AND PLANTING DETAILS.
2. THE LAYOUT FOR THE LANDSCAPING AND SIGNS IS GENERAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS PRIOR TO BEGINNING ANY CONSTRUCTION. THE LAYOUT SHALL BE SUCH THAT THE MINIMUM DISTURBANCE POSSIBLE TO THE EXISTING CONDITIONS AND EXISTING UTILITIES IS MAINTAINED. LOCATIONS OF ALL LANDSCAPING ELEMENTS AND SIGNS SHALL BE LAYED OUT FOR APPROVAL BY THE ENGINEER. DISTURBANCE TO ANY EXISTING CONDITIONS AND EXISTING UTILITIES NOT APPROVED BY THE ENGINEER SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
3. PLANT BEDDING DIMENSION AREAS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.
4. EXCAVATED MATERIAL SHALL NOT BE HAULED OFF SITE. EXCAVATED MATERIAL SHALL REMAIN ON SITE AND BE PLACE BEHIND THE PROPOSED SIGNS OR AT A LOCATION APPROVED BY THE ENGINEER.

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

DESIGNED - AS
DRAWN - RR
CHECKED - EN
DATE - 6/10/2019

REVISED -
REVISED -
REVISED -
REVISED -

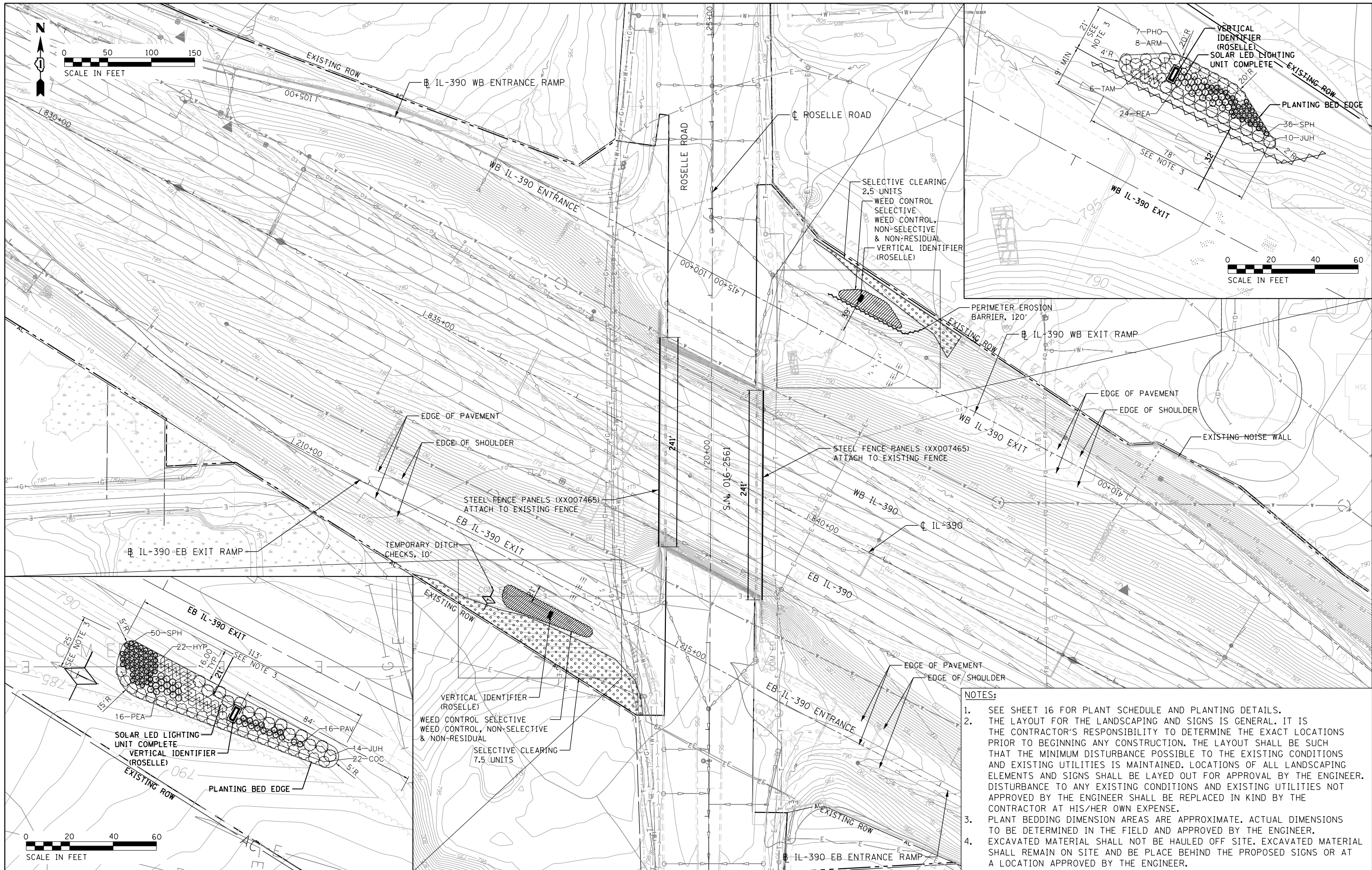
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLAN
LAKE STREET (US-20) DETAILS**

SCALE: 1" = 20'

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 9 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT



- NOTES:**
- SEE SHEET 16 FOR PLANT SCHEDULE AND PLANTING DETAILS.
 - THE LAYOUT FOR THE LANDSCAPING AND SIGNS IS GENERAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS PRIOR TO BEGINNING ANY CONSTRUCTION. THE LAYOUT SHALL BE SUCH THAT THE MINIMUM DISTURBANCE POSSIBLE TO THE EXISTING CONDITIONS AND EXISTING UTILITIES IS MAINTAINED. LOCATIONS OF ALL LANDSCAPING ELEMENTS AND SIGNS SHALL BE LAYED OUT FOR APPROVAL BY THE ENGINEER. DISTURBANCE TO ANY EXISTING CONDITIONS AND EXISTING UTILITIES NOT APPROVED BY THE ENGINEER SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
 - PLANT BEDDING DIMENSION AREAS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.
 - EXCAVATED MATERIAL SHALL NOT BE HAULED OFF SITE. EXCAVATED MATERIAL SHALL REMAIN ON SITE AND BE PLACE BEHIND THE PROPOSED SIGNS OR AT A LOCATION APPROVED BY THE ENGINEER.

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLAN
ROSELLE ROAD**

SCALE: SCALE: 1" = 50'

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 10 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT



DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

| | | | |
|------------|-----------|-----------|--|
| DESIGNED - | AS | REVISED - | |
| DRAWN - | RR | REVISED - | |
| CHECKED - | EN | REVISED - | |
| DATE - | 6/10/2019 | REVISED - | |

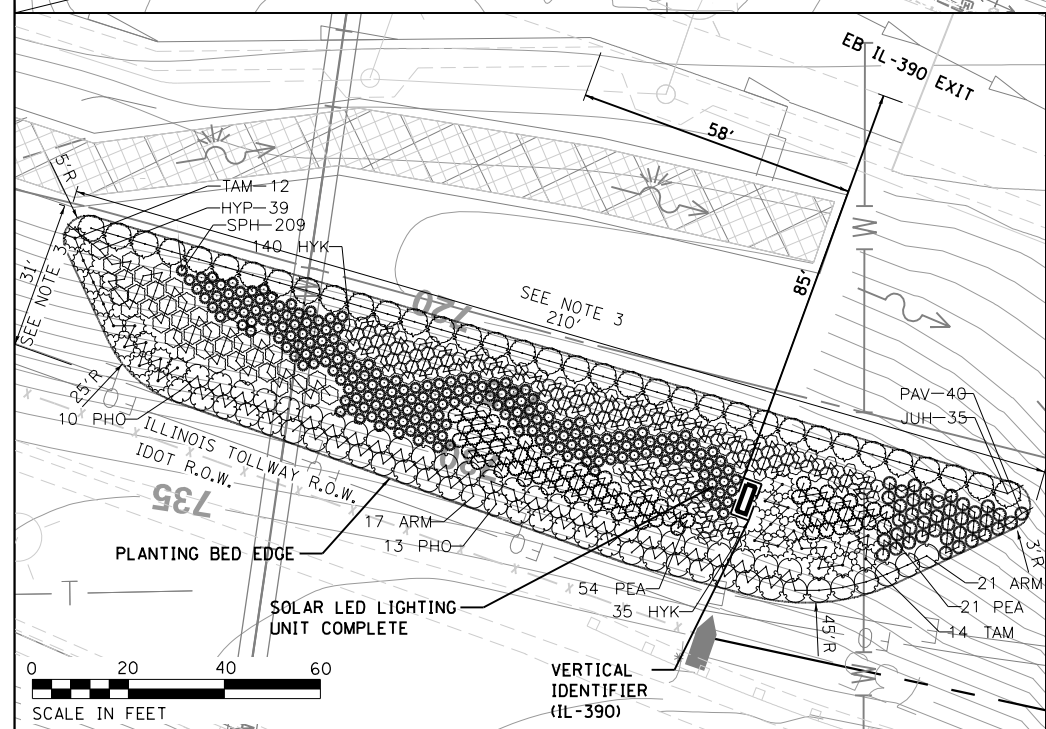
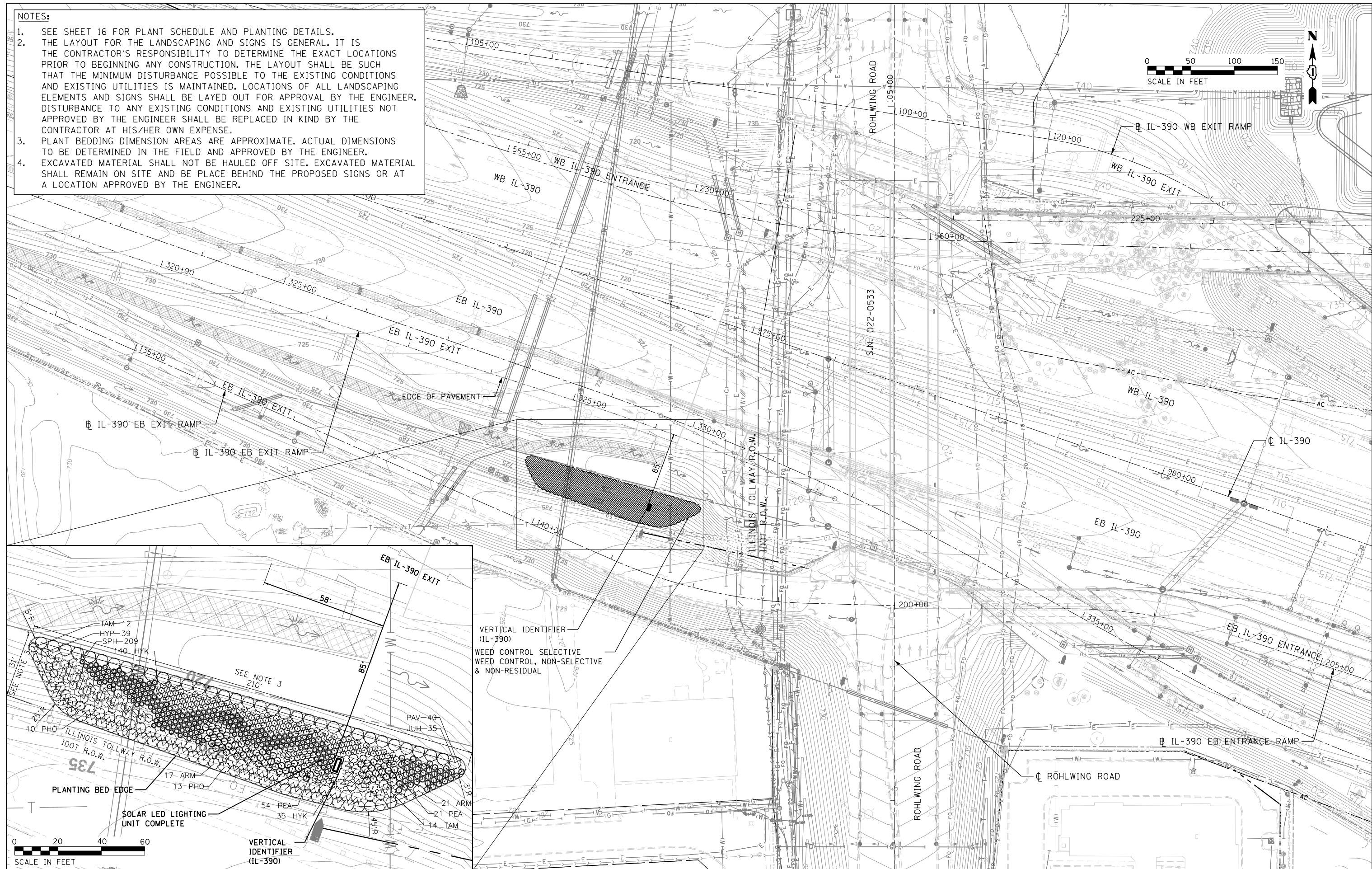
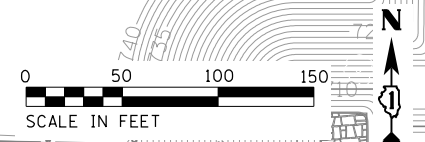
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLAN
PLUM GROVE ROAD**

SCALE: 1" = 50'

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 11 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

- NOTES:**
- SEE SHEET 16 FOR PLANT SCHEDULE AND PLANTING DETAILS.
 - THE LAYOUT FOR THE LANDSCAPING AND SIGNS IS GENERAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS PRIOR TO BEGINNING ANY CONSTRUCTION. THE LAYOUT SHALL BE SUCH THAT THE MINIMUM DISTURBANCE POSSIBLE TO THE EXISTING CONDITIONS AND EXISTING UTILITIES IS MAINTAINED. LOCATIONS OF ALL LANDSCAPING ELEMENTS AND SIGNS SHALL BE LAYED OUT FOR APPROVAL BY THE ENGINEER. DISTURBANCE TO ANY EXISTING CONDITIONS AND EXISTING UTILITIES NOT APPROVED BY THE ENGINEER SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
 - PLANT BEDDING DIMENSION ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.
 - EXCAVATED MATERIAL SHALL NOT BE HAULED OFF SITE. EXCAVATED MATERIAL SHALL REMAIN ON SITE AND BE PLACE BEHIND THE PROPOSED SIGNS OR AT A LOCATION APPROVED BY THE ENGINEER.



0 20 40 60
SCALE IN FEET

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLAN
ROHLWING ROAD**

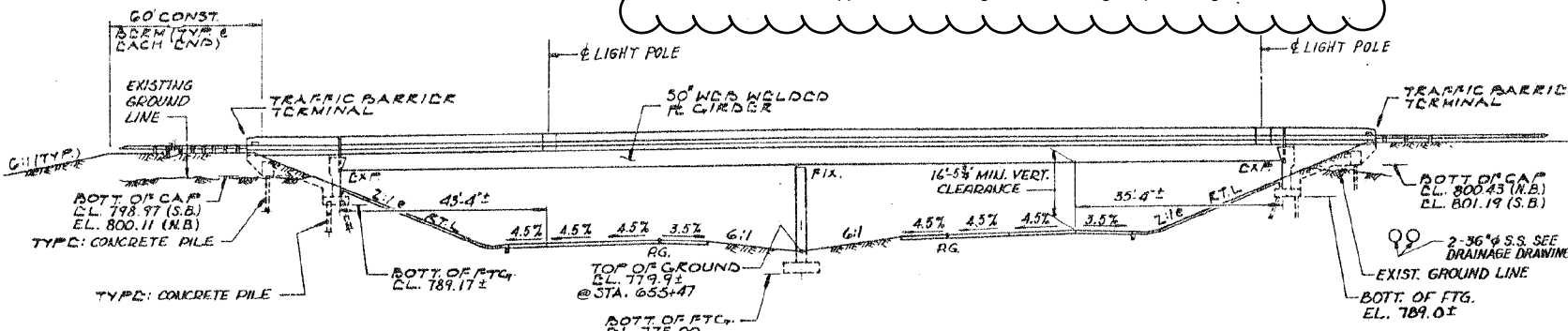
SCALE: 1" = 50'

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 12 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT

FOR BENCHMARK, SEE ALIGNMENT, TIES AND BENCHMARKS DRAWING.

The Contractor shall submit shop drawings for decorative panels and all associated connections for review and approval prior to fabrication. Shop drawings shall be signed and sealed by an Illinois licensed Structural Engineer. Decorative panel size shall match dimensions taken from approved R-28 Bridge Fence Railing shop drawings.



ELEVATION

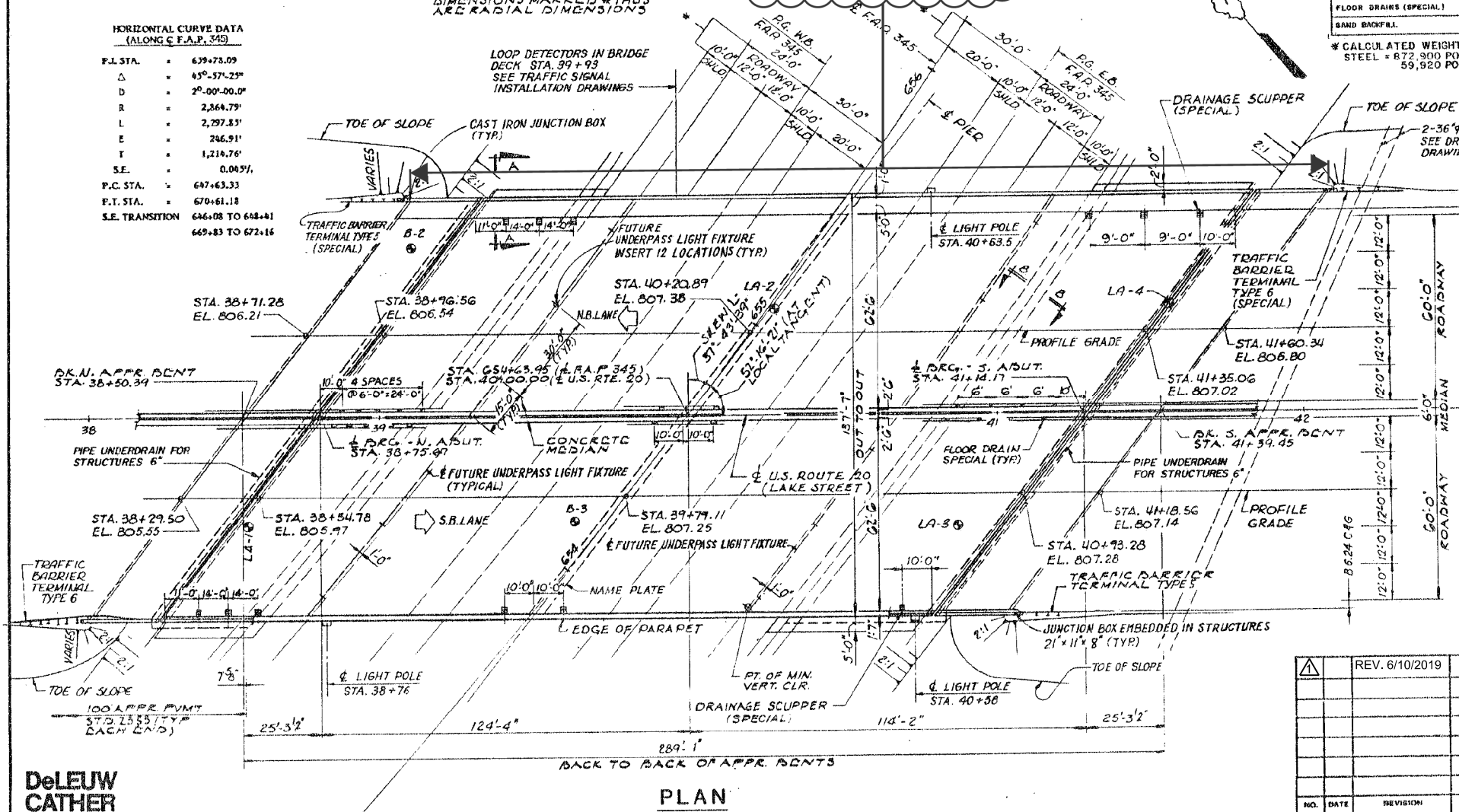
Existing pedestrian rail removed and replaced with R-28 Bridge Fence Railing with decorative panel attachment

NOTE: DIMENSIONS MARKED & THUS ARE RADIAL DIMENSIONS

HORIZONTAL CURVE DATA
(ALONG C.F.A.P. 345)

| | |
|-----------------|------------------|
| P.L. STA. | 639+73.09 |
| Δ | 45°-37'-23" |
| D | 2°-00'-00.0" |
| R | 2,364.79' |
| L | 2,297.83' |
| E | 246.91' |
| T | 1,214.76' |
| S.E. | 0.045% |
| P.C. STA. | 647+63.33 |
| P.T. STA. | 670+61.18 |
| S.E. TRANSITION | 646+08 TO 648+41 |
| | 649+83 TO 672+16 |

LOOP DETECTORS IN BRIDGE DECK STA. 39+93 SEE TRAFFIC SIGNAL INSTALLATION DRAWINGS



PLAN

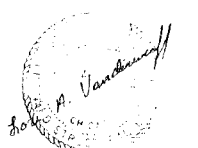
BILL OF MATERIAL

| ITEM | UNIT | SUB. | SUPPL. | TOTAL |
|--|----------|--------|--------|--------|
| STRUCTURE EXCAVATION | CU. YD. | 2144 | — | 2144 |
| NEOPRENE EXPANSION JOINT 2" | LIN. FT. | — | 348 | 348 |
| CLASS X CONCRETE SUPERSTRUCTURE | CU. YD. | — | 1242.7 | 1242.7 |
| PROTECTIVE COAT | SQ. YD. | — | 4470 | 4470 |
| CLASS X CONCRETE | CU. YD. | 1393.8 | — | 1393.8 |
| RUSTICATION FINISH | SQ. FT. | 2967 | — | 2967 |
| ERECTING STRUCTURAL STEEL | PL. SUR. | — | 1 | 1 |
| STUD BUSH CONNECTORS | KRCH | — | 11856 | 11856 |
| PEDESTRIAN RAIL | LIN. FT. | — | 289 | 289 |
| REINFORCEMENT BARS | POUND | 46070 | — | 46070 |
| REINFORCEMENT BARS, EPOXY COATED | POUND | 137660 | 287480 | 425140 |
| FURNISHING CONCRETE PILES | LIN. FT. | 8435 | — | 8435 |
| RAW CUT GROOVING OF CONCRETE BRIDGE DECKS | SQ. YD. | — | 3848 | 3848 |
| DRIVING CONCRETE PILES | LIN. FT. | 8435 | — | 8435 |
| TEST PILES CONCRETE | KRCH | 2 | — | 2 |
| RANK PLATES | KRCH | 1 | — | 1 |
| SLOPE WALL 4 INCH | SQ. YD. | 1337 | — | 1337 |
| BRIDGE SHOT SEALER | SQ. FT. | 180 | — | 180 |
| INSTALL ELASTOMERIC BEARING ASSEMBLY, TYPE 1 | KRCH | — | 38 | 38 |
| PREFORMED JOINT SEAL (2 1/2") | LIN. FT. | — | 288 | 288 |
| PIPE UNDERDRAIN FOR STRUCTURES 6" | LIN. FT. | 420 | — | 420 |
| DRAINAGE SCUPPER (SPECIAL) | KRCH | — | 12 | 12 |
| FLOOR DRAINS (SPECIAL) | KRCH | — | 22 | 22 |
| SAND BACKFILL | CU. YD. | 700 | — | 700 |

* CALCULATED WEIGHT OF STRUCTURAL STEEL = 872,900 POUNDS (M 223, GRADE 50) & 59,920 POUNDS (M 183, GRADE 36)

| | | | | |
|----------------------|----------|---------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAP 345 | — | DU PAGE | 159 | 105 |
| STA. | TO STA. | | | |
| F.I.W. A. REG. NO. 4 | ILLINOIS | PROJECT | | |
| R-1901 & (22-1-2HB) | | | | |

For General Note see Drawing No. 3.



SEALED: 8/11/19
EXPIRES: 11/30/19

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

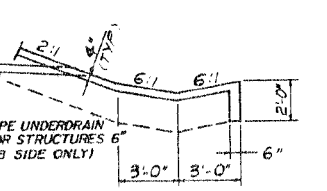
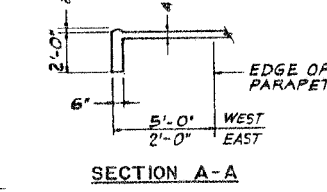
Wei Henry
Licensed Structural Engineer

PROFILE GRADE
U.S. RTE. 20 (LAKE ST.)



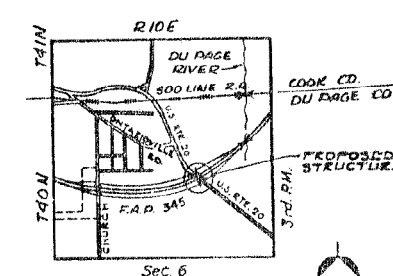
PROFILE GRADE
F.A.P. 345

NOTE: SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" x 6" - W4.0 x W4.0, WEIGHING 58 LBS. PER 100 SQ. FT.



SLOPE WALL DETAILS

NOTE: FOR DETAIL AT ABUTMENT SEE SHEET 5-2.



LOCATION PLAN

| | | | |
|----------------|----|---|----------------|
| REV. 6/10/2019 | RB | HEIN - O'HARE EXPRESSWAY ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 20 OVER FAP 345 GENERAL PLAN AND ELEVATION FAP 345 STRUCTURE NUMBER 022-0208 DUPAGE COUNTY STATION 654+63.95 DE LEUW, CATHER & COMPANY ENGINEERS AND PLANNERS | DATE 6/10/19 |
| | | | JOB NO. P04433 |
| | | DESIGNED L.P. | |
| | | DRAWN T.C. | |
| | | CHECKED G.M. | |
| | | APPROVED W.H. | |
| | | SCALE | |
| | | DRAWING NO. | S-1 |

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

| | | | |
|----------|-------------|---------|---|
| DESIGNED | - AS | REVISED | - |
| DRAWN | - RR | REVISED | - |
| CHECKED | - EN | REVISED | - |
| DATE | - 6/10/2019 | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

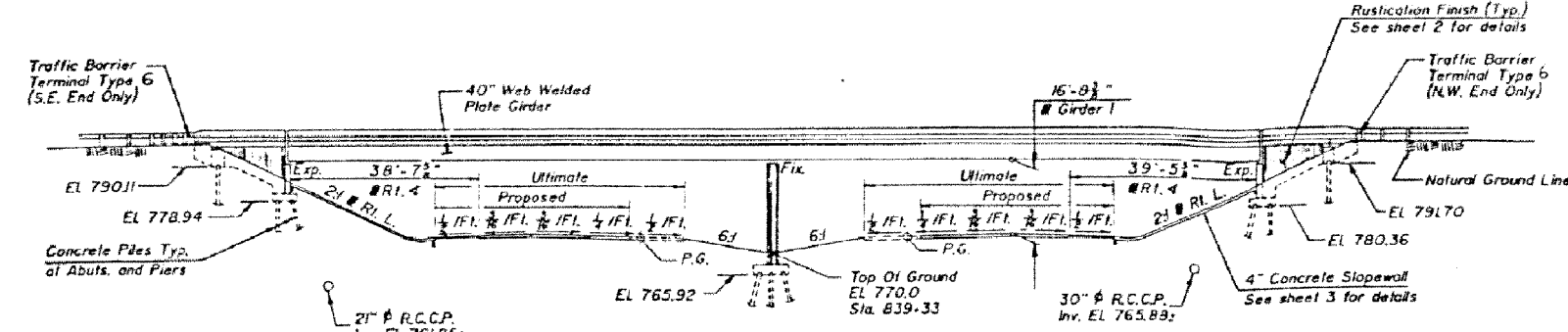
GENERAL PLAN AND ELEVATION
LAKE STREET (US-20)

SCALE: NTS

| | | | | |
|---------------------------|----------------|-------------|--------------|--------------------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 13 |
| | | | | CONTRACT NO. 61E69 |
| ILLINOIS FED. AID PROJECT | | | | |

| SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------|--------|--------------|-----------|
| 16-2-2H8-1 | COOK | 333 | 267 |

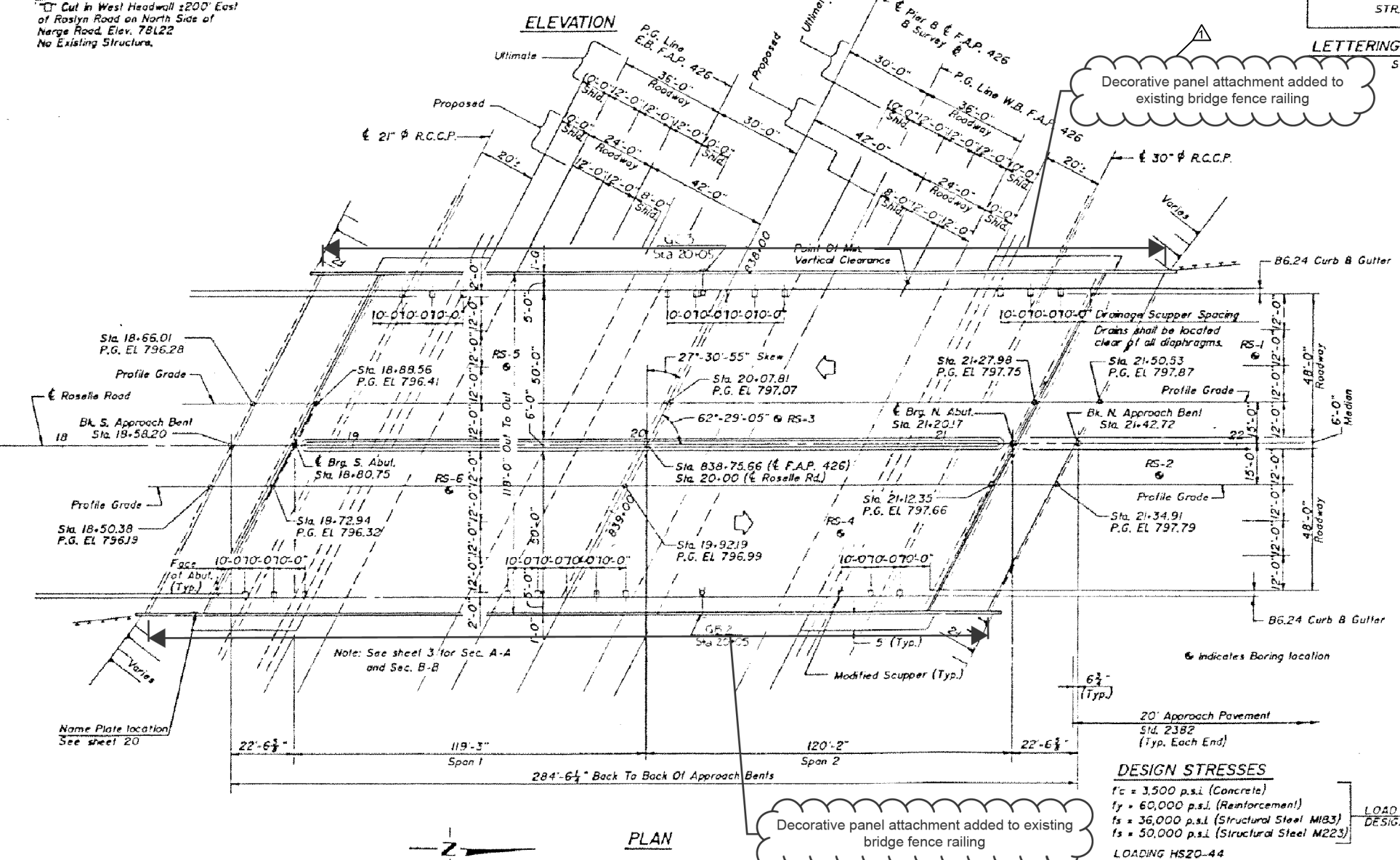
Sheet 1 of 23



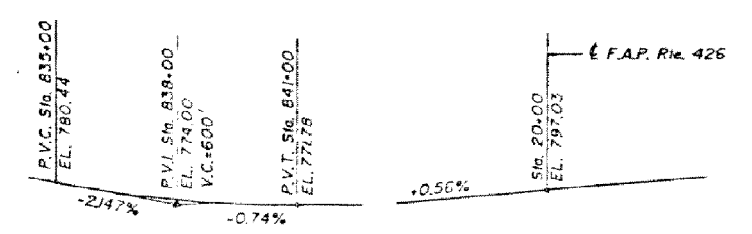
BENCH MARK
 □ Cut in West Headwall ±200' East of Roslyn Road on North Side of Narge Road, Elev. 781.22
 No Existing Structure.

STATION 838 + 75.66
 BUILT 199- BY
 STATE OF ILLINOIS
 F.A.P. RT. 345 SEC. 16-2-2
 PROJECT IX-345 (1)
 LOADING HS20
 STR. NO. 016-2561

- INDEX OF SHEETS**
1. General Plan & Elevation
 2. General Notes & Bill of Material
 3. Substructure Layout
 - 4-7. Deck Elevations
 - 8-9. Superstructure
 10. Approach Slabs
 - 11-12. Drainage Details
 13. Pedestrian Railing
 - 14-15. Steel Framing And Girder Details
 16. Bearing Details
 17. Anchor Bolt Details
 - 18-20. Abutments
 - 21-22. Pier
 23. Pile Alternates

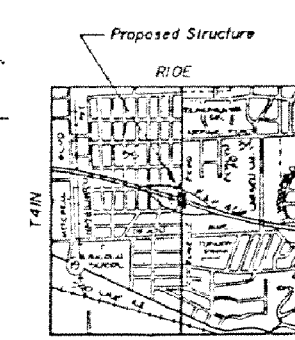


Decorative panel attachment added to existing bridge fence railing



PROFILE GRADE
 F.A.P. 426
 PROFILE GRADE
 ROSELLE ROAD

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 T. D. Cahill
 STATE ENGINEER



LOCATION PLAN

DESIGN STRESSES
 $f_c = 3,500$ p.s.i. (Concrete)
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_s = 36,000$ p.s.i. (Structural Steel M183)
 $f_s = 50,000$ p.s.i. (Structural Steel M223)

LOADING HS20-44
 Design Specifications: 1983 AASHTO and 1984-1988 Interims.
 25 #/sq. Ft. included in dead load for future wearing surface

REVISIONS

| REV. | NAME | DATE |
|------|------|---------|
| 1 | REV. | 6/10/19 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 ROSELLE ROAD OVER F.A.P. 426
 SEC. 16-2-2
 STATION 838-75.66
 STR. NO. 016-2561 COOK COUNTY
 DESIGNED: JKK DRAWN BY: KJK
 DATE: CHECKED BY: MLC

PLANS PREPARED BY:
 HARRY O. WEAVER ASSOC., INC.
 180 N. WABASH AVENUE
 CHICAGO, ILLINOIS 60601

DUPAGE COUNTY
 DIVISION OF TRANSPORTATION
 421 COUNTY FARM ROAD
 WHEATON, IL

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 ROSELLE ROAD

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 14 |

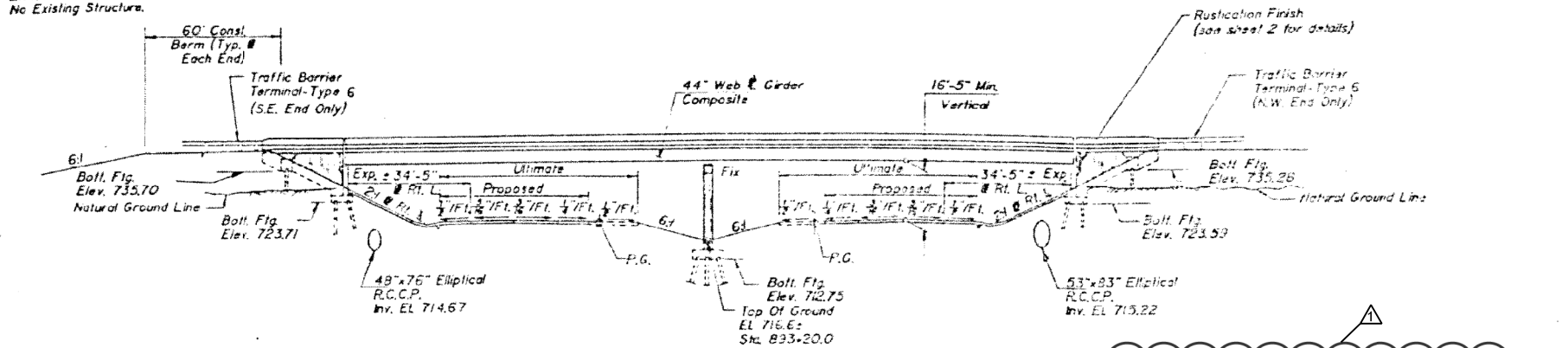
CONTRACT NO. 61E69
 ILLINOIS FED. AID PROJECT

SCALE: NTS

BENCH MARK
 E.N.E. Upper Flange Bolt Of Fire Hydrant
 At S.W. Corner Of Narge Road and
 Plum Grove Road.
 Elev. 734.43
 No Existing Structure.

| SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------|--------|--------------|-----------|
| 16-2 | COOK | 333 | 313 |
| SHEET 1 OF 21 | | | |

- INDEX OF SHEETS:**
- 1 GENERAL PLAN & ELEVATION
 - 2 GENERAL NOTES & TOTAL BILL OF MATERIAL
 - 3-5 DECK ELEVATIONS
 - 6 SUPERSTRUCTURE
 - 7 APPROACH SLABS
 - 8 PARAPET DETAILS
 - 9 STEEL DRAINAGE SCUPPERS
 - 10 ALTERNATE CAST IRON DRAINAGE SCUPPER
 - 11 PEDESTRIAN RAILING
 - 12 FRAMING PLAN
 - 13 FRAMING DETAILS
 - 14 BEARINGS
 - 15 ANCHOR BOLTS
 - 16 SOUTH ABUTMENT
 - 17 NORTH ABUTMENT
 - 18 ABUTMENT DETAILS
 - 19-20 PIER
 - 21 PILES



HORIZONTAL CURVE #1 DATA
 (Along Plum Grove Road)

| | |
|----------|---------------|
| PL Sta | 16+62.62 |
| Δ | 9° 34' 57" RL |
| D | 4' 00' 00" |
| R | 1432.40' |
| L | 239.56' |
| E | 5.02' |
| T | 120.00' |
| S.E. | 0.0371/Ft. |
| P.C. Sta | 15+42.56 |
| P.T. Sta | 17+82.12 |

Transition from normal crown to full super-elevation from Sta. 14+22.56 to Sta. 16+02.56, and from Sta. 19+02.12 to Sta. 17+22.17.

HORIZONTAL CURVE #2 DATA
 (Along Plum Grove Road)

| | |
|----------|---------------|
| PL Sta | 22+27.07 |
| Δ | 1° 23' 48" LT |
| D | 5' 15' 00" |
| R | 1096.35' |
| L | 217.08' |
| E | 3.42' |
| T | 102.90' |
| S.E. | 0.0341/Ft. |
| P.C. Sta | 21+18.17 |
| P.T. Sta | 23+35.25 |

Transition from normal crown to full super-elevation from Sta. 19+98.17 to Sta. 21+78.17 and from Sta. 24+55.25 to Sta. 22+75.25.

DESIGN CRITERIA

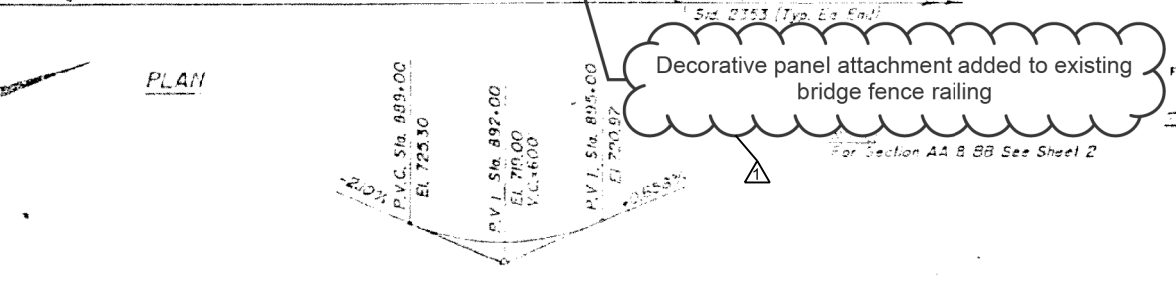
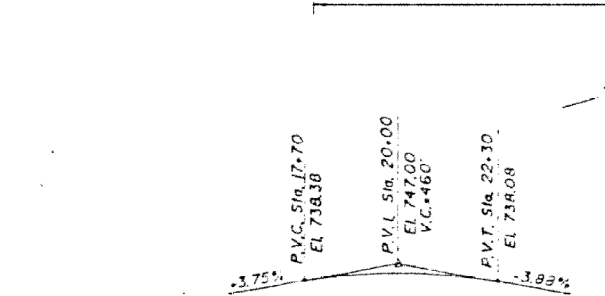
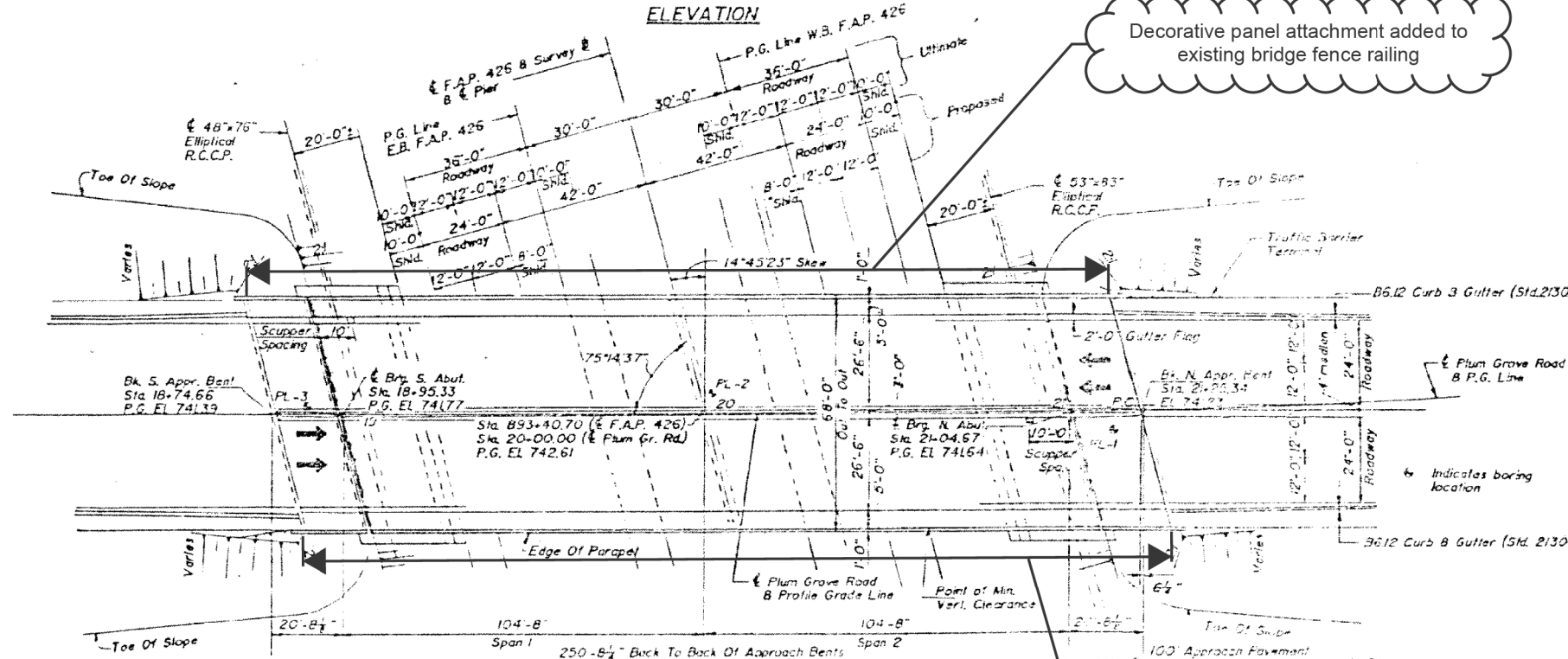
SPECIFICATIONS:
 AASHTO 1989 Standard Specifications for Highway Bridges

DESIGN LOADING:
 Live load for Highway Bridges - HS20-44
 Future Wearing Surface - 25 psf.

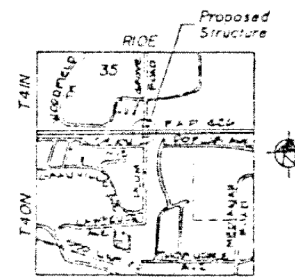
DESIGN STRESSES:
 Load Factor Design Methods shall be used for all structural elements.

CONCRETE:
 f_c = 3500 psi (concrete)
 f_y = 60,000 psi (reinforcement)

STRUCTURAL STEEL:
 AASHTO M270 - Gr. 36, F_y = 36,000 psi
 AASHTO M270 - Gr. 50, F_y = 50,000 psi



APPROVED FOR STRUCTURAL ADOPTION ONLY



Don L. Ortman
 DATE: 6/10/19
 LICENSE: 013924

| REVISIONS | |
|-----------|---------|
| NAME | DATE |
| REV. | 6/10/19 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN AND ELEVATION
 PLUM GROVE ROAD OVER F.A.P. 426
 SEC. 16-2-2
 STATION 893+40.70
 STR. NO. 06-2562 COOK COUNTY

DESIGNED BY: JJK
 DATE: 6/10/19
 DRAWN BY: REV
 CHECKED BY: MLC

PLANS PREPARED BY:
 HARRY O. HEFTER ASSOC., INC.
 180 N. WABASH AVENUE
 CHICAGO, ILLINOIS 60601

DUPAGE COUNTY
 DIVISION OF TRANSPORTATION
 421 COUNTY FARM ROAD
 WHEATON, IL

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

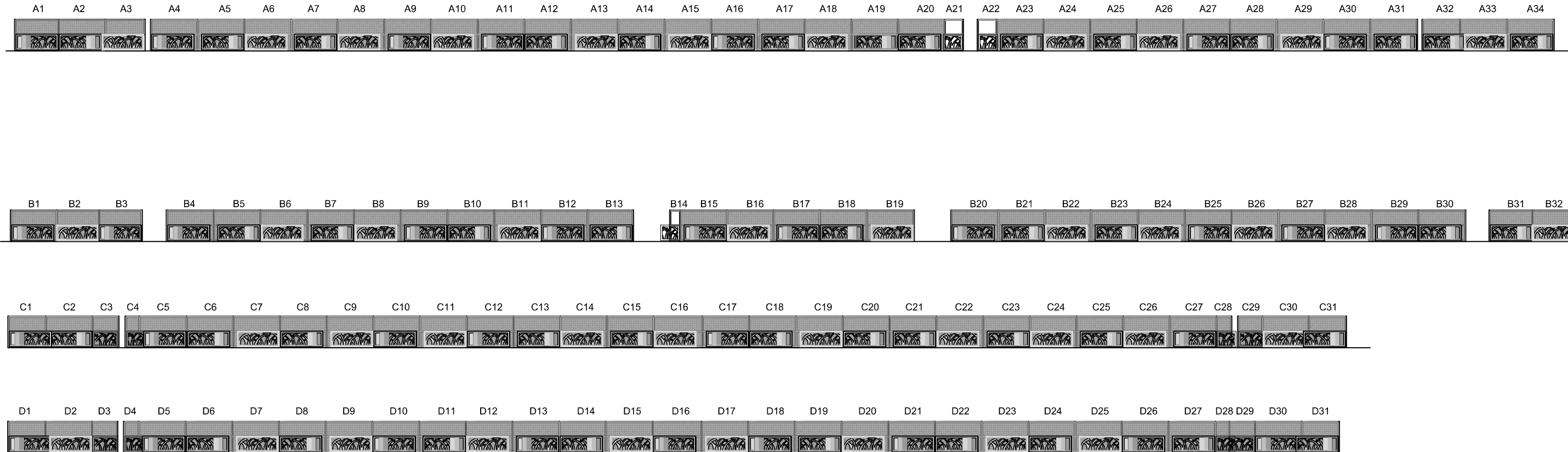
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 PLUM GROVE ROAD

SCALE: NTS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 15 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT



1 STEEL FENCE PANELS

1" = 10' - 0"

NOTES

- ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM EXISTING FENCE SHOP DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES, AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
- SUBMIT SHOP DRAWINGS FOR DECORATIVE PANELS AND ALL ASSOCIATED CONNECTIONS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.

ROSELLE

Fence Panel Schedule

| ITEM | | SIZE |
|----------|---|------------|
| Panel 1 | A | 8'-0" |
| Panel 2 | A | 8'-7 5/8" |
| Panel 3 | A | 7'-2 1/8" |
| GAP | A | 1'-0" |
| Panel 4 | A | 8'-7 1/8" |
| Panel 5 | A | 8'-8" |
| Panel 6 | A | 8'-7 6/8" |
| Panel 7 | A | 8'-6" |
| Panel 8 | A | 8'-8 1/8" |
| Panel 9 | A | 8'-7 5/16" |
| Panel 10 | A | 8'-7 7/8" |
| Panel 11 | A | 8'-7 1/4" |
| Panel 12 | A | 8'-7 1/2" |
| Panel 13 | A | 8'-7 5/8" |
| Panel 14 | A | 8'-7 6/8" |
| Panel 15 | A | 8'-7 1/2" |
| Panel 16 | A | 8'-7 3/4" |
| Panel 17 | A | 8'-7 1/4" |
| Panel 18 | A | 8'-7 3/4" |
| Panel 19 | A | 8'-6 3/4" |
| Panel 20 | A | 8'-7 3/4" |
| Panel 21 | A | 8'-2 1/2" |
| GAP | A | 2' 2" |
| Panel 22 | A | 8'-4 1/2" |
| Panel 23 | A | 8'-7 1/4" |
| Panel 24 | A | 8'-7 1/4" |
| Panel 25 | A | 8'-7 1/2" |
| Panel 26 | A | 8'-7 1/4" |
| Panel 27 | A | 8'-7 3/8" |
| Panel 28 | A | 8'-7 3/4" |
| Panel 29 | A | 8'-7 1/4" |
| Panel 30 | A | 8'-8" |
| Panel 31 | A | 8'-7 1/4" |
| GAP | A | 0'-10" |
| Panel 32 | A | 6'-10 1/2" |
| Panel 33 | A | 8'-7 7/8" |
| Panel 34 | A | 8'-7 1/4" |

ROSELLE

Fence Panel Schedule

| ITEM | | SIZE |
|------------|---|------------|
| Panel 1 | B | 8'-5 1/2" |
| Panel 2 | B | 7'-9 1/2" |
| Panel 3 | B | 7'-10" |
| GAP | B | 1'-1" |
| Panel 4 | B | 8'-8" |
| Panel 5 | B | 8'-7 1/4" |
| Panel 6 | B | 8'-8" |
| Panel 7 | B | 8'-7 1/2" |
| Panel 8 | B | 8'-7 1/2" |
| Panel 9 | B | 8'-7 1/2" |
| Panel 10 | B | 8'-8 1/4" |
| Panel 11 | B | 8'-7 1/4" |
| Panel 12 | B | 8'-7 1/4" |
| Panel 13 | B | 8'-4 1/4" |
| LIGHT POST | B | 2'-5 3/4" |
| Panel 14 | B | 1'-7 3/4" |
| Panel 15 | B | 8'-7 1/2" |
| Panel 16 | B | 8'-7 1/4" |
| Panel 17 | B | 8'-6 1/2" |
| Panel 18 | B | 8'-8 1/4" |
| Panel 19 | B | 8'-8 1/8" |
| Panel 20 | B | 8'-7 3/4" |
| Panel 21 | B | 8'-7 1/2" |
| Panel 22 | B | 8'-5 3/4" |
| Panel 23 | B | 8'-8 7/8" |
| Panel 24 | B | 8'-7 1/2" |
| Panel 25 | B | 8'-7 5/8" |
| Panel 26 | B | 8'-7 5/8" |
| Panel 27 | B | 8'-7 1/4" |
| Panel 28 | B | 8'-7 1/2" |
| Panel 29 | B | 8'-7 3/4" |
| Panel 30 | B | 8'-7 1/2" |
| GAP | B | 1'-10" |
| Panel 31 | B | 7'-10 3/8" |
| Panel 32 | B | 7'-10" |
| Panel 33 | B | 7'-10 1/8" |

PLUM GROVE

Fence Panel Schedule

| ITEM | | SIZE |
|----------|---|-------------|
| Panel 1 | C | 6'-10 1/8" |
| Panel 2 | C | 8'-7 1/8" |
| Panel 3 | C | 4'-8 3/8" |
| GAP | C | 1'-19/16" |
| Panel 4 | C | 2'-4 1/14" |
| Panel 5 | C | 8'-8 7/8" |
| Panel 6 | C | 8'-7 5/8" |
| Panel 7 | C | 8'-7 3/8" |
| Panel 8 | C | 8'-7 3/8" |
| Panel 9 | C | 8'-7 1/2" |
| Panel 10 | C | 8'-7 1/4" |
| Panel 11 | C | 8'-7 11/14" |
| Panel 12 | C | 8'-7 3/4" |
| Panel 13 | C | 8'-7 1/2" |
| Panel 14 | C | 8'-7 1/4" |
| Panel 15 | C | 8'-7 1/2" |
| Panel 16 | C | 9'-0" |
| Panel 17 | C | 8'-7 1/2" |
| Panel 18 | C | 8'-7 7/8" |
| Panel 19 | C | 8'-7 3/4" |
| Panel 20 | C | 8'-7 1/4" |
| Panel 21 | C | 8'-7 3/8" |
| Panel 22 | C | 8'-7 3/4" |
| Panel 23 | C | 8'-8" |
| Panel 24 | C | 8'-7 3/16" |
| Panel 25 | C | 8'-7 3/8" |
| Panel 26 | C | 8'-7 1/2" |
| Panel 27 | C | 8'-7 1/2" |
| Panel 28 | C | 2'-6 1/2" |
| GAP | C | 1'-15/16" |
| Panel 29 | C | 4'-4" |
| Panel 30 | C | 8'-7 1/4" |
| Panel 31 | C | 6'-9 3/8" |

PLUM GROVE

Fence Panel Schedule

| ITEM | | SIZE |
|----------|---|-----------|
| Panel 1 | D | 6'-9 1/2" |
| Panel 2 | D | 8'-7 1/2" |
| Panel 3 | D | 4'-6 1/4" |
| GAP | D | 1'-5/8" |
| Panel 4 | D | 2'-6 3/4" |
| Panel 5 | D | 8'-7 1/2" |
| Panel 6 | D | 8'-7 1/2" |
| Panel 7 | D | 8'-7 1/2" |
| Panel 8 | D | 8'-7 1/2" |
| Panel 9 | D | 8'-7 1/2" |
| Panel 10 | D | 8'-7 1/2" |
| Panel 11 | D | 8'7 3/4" |
| Panel 12 | D | 8'-7 1/8" |
| Panel 13 | D | 8'-7 3/4" |
| Panel 14 | D | 8'-7 1/8" |
| Panel 15 | D | 8'-8 1/4" |
| Panel 16 | D | 9'-0" |
| Panel 17 | D | 8'-7 1/2" |
| Panel 18 | D | 8'-7 1/4" |
| Panel 19 | D | 8'-7 3/4" |
| Panel 20 | D | 8'-7 3/4" |
| Panel 21 | D | 8'-7 3/8" |
| Panel 22 | D | 8'-7 1/2" |
| Panel 23 | D | 8'-7 3/4" |
| Panel 24 | D | 8'-7" |
| Panel 25 | D | 8'-7 3/4" |
| Panel 26 | D | 8'-7 1/2" |
| Panel 27 | D | 8'-7 3/4" |
| Panel 28 | D | 2'-4 3/4" |
| Panel 29 | D | 4'-8" |
| Panel 30 | D | 8'-7 1/2" |
| Panel 31 | D | 6'-9 1/2" |

FILE NAME =
SFILES
SNOELMANES

DUPAGE COUNTY
D.U. OF TRANS
421 COUNTY FARM ROAD
WHEATON, IL

| | | |
|--------------------------|-------------------|-----------|
| USER NAME = \$USERS | DESIGNED - JB | REVISED - |
| PLOT SCALE = \$\$SCALE\$ | DRAWN - JC | REVISED - |
| PLOT DATE = \$DATES | CHECKED - JB | REVISED - |
| | DATE - 06/10/2019 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

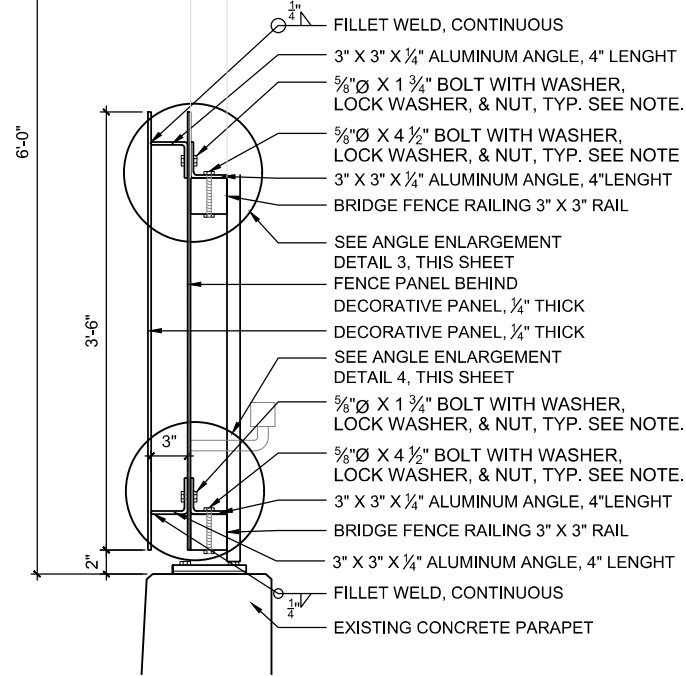
FENCE AFFIXMENT DETAILS

SCALE: AS SHOWN

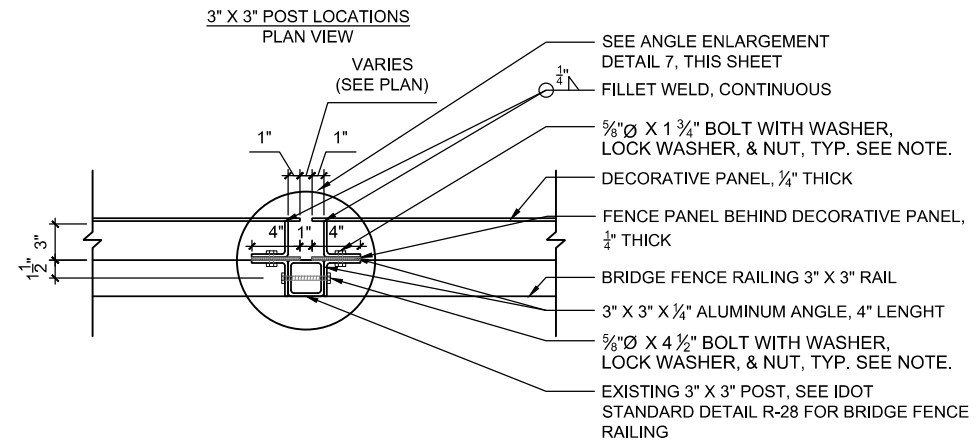
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 16 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTE:

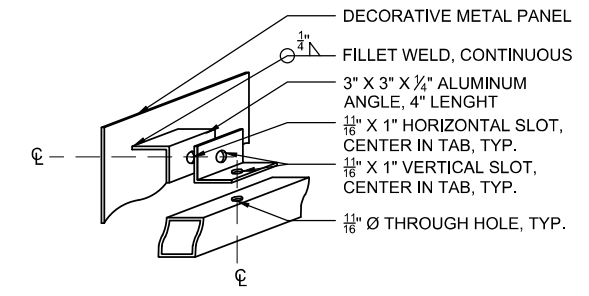
- IT MAY BE POSSIBLE TO REMOVE THE EXISTING FENCE FABRIC IN ORDER TO INSTALL THE DECORATIVE FENCE PANELS ALONG PEDESTRIAN SIDE AND REINSTALL THE FABRIC BACK ONCE THE INSTALLATION IS COMPLETE. CONTRACTOR SHALL EVALUATE EXISTING FENCE FABRIC CONDITION TO FIND OUT THE BEST SOLUTION TO INSTALL THE DECORATIVE FENCE PANELS.
- CONTRACTOR SHALL PROTECT EXISTING FENCE POSTS, FABRIC AND RAILING DURING CONSTRUCTION.



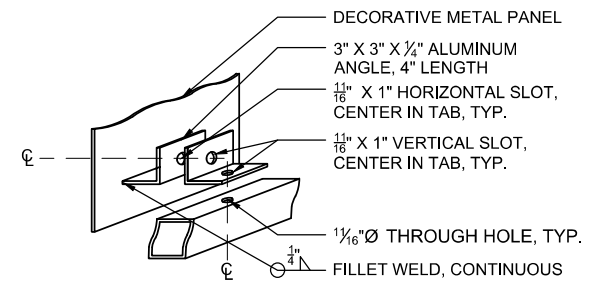
1 DECORATIVE METAL PANEL & RAIL CONNECTIONS
1 1/2" = 1'-0"



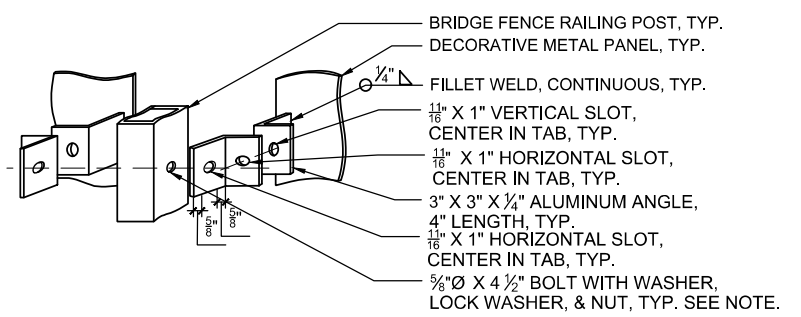
2 DECORATIVE METAL PANEL & POST CONNECTIONS
1 1/2" = 1'-0"



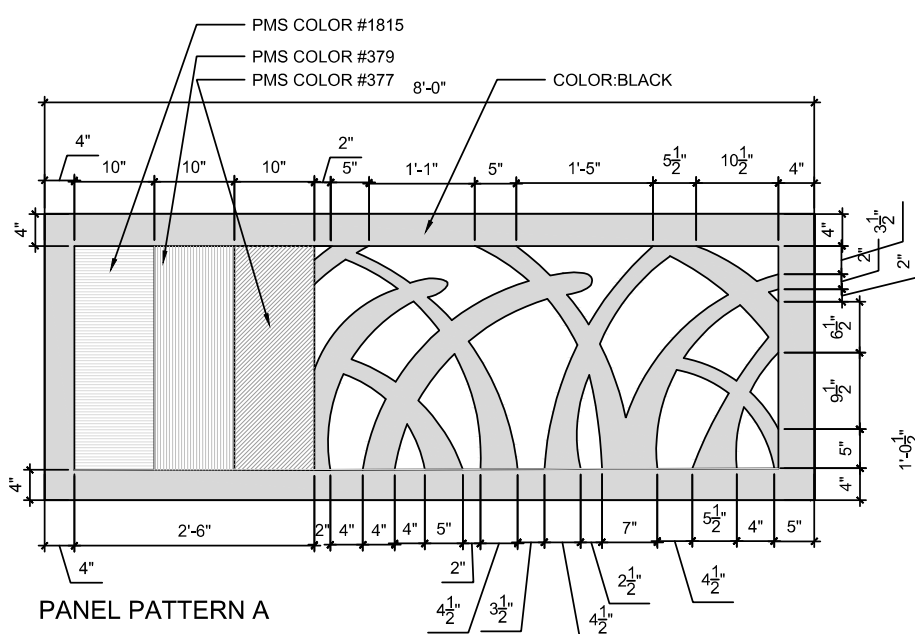
3 DECORATIVE METAL PANEL MOUNTING BRACKET ENLARGEMENT ISOMETRIC - TOP RAIL
1 1/2" = 1'-0"



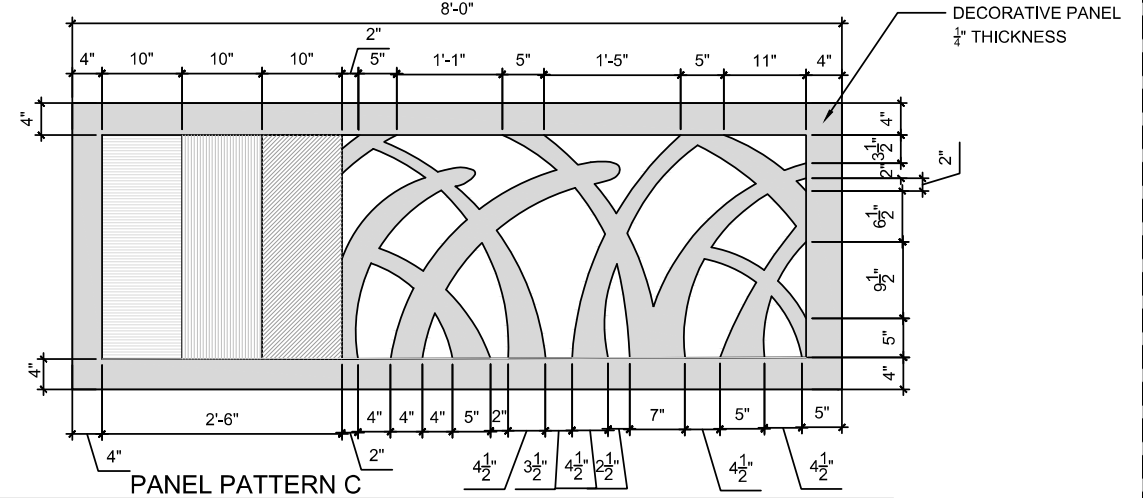
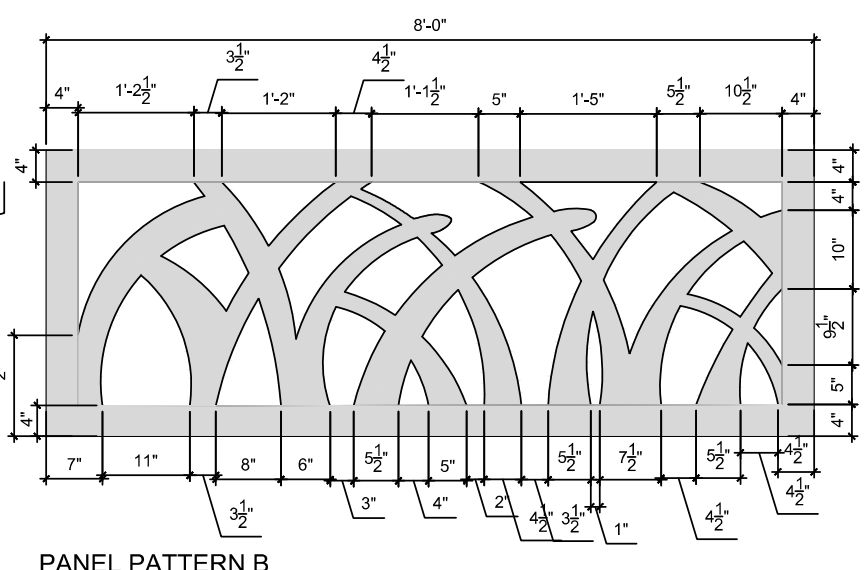
4 DECORATIVE METAL PANEL MOUNTING BRACKET ENLARGEMENT ISOMETRIC - BOTTOM RAIL
1 1/2" = 1'-0"



5 DECORATIVE METAL PANEL MOUNTING BRACKET ENLARGEMENT ISOMETRIC - POST
1 1/2" = 1'-0"



6 DECORATIVE METAL PANEL
3/4" = 1'-0"



FILE NAME =
SFILES
SMODELNAME\$

DUPAGE COUNTY
D.U. OF TRANS
421 COUNTY FARM ROAD
WHEATON, IL

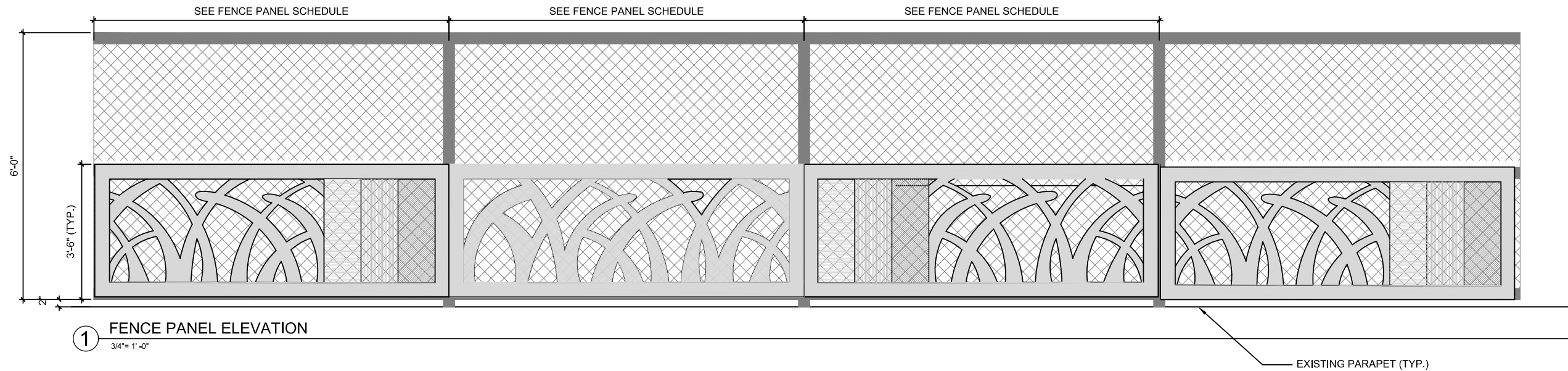
| | | |
|------------------------|-------------------|-----------|
| USER NAME = \$USERS | DESIGNED - JB | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - JC | REVISED - |
| PLOT DATE = \$DATES | CHECKED - JB | REVISED - |
| | DATE - 06/10/2019 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FENCE AFFIXMENT DETAILS

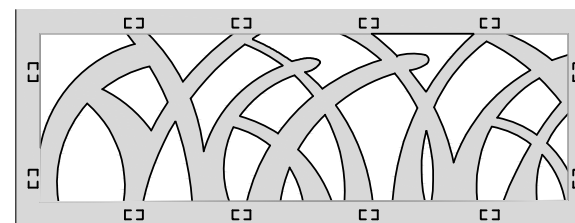
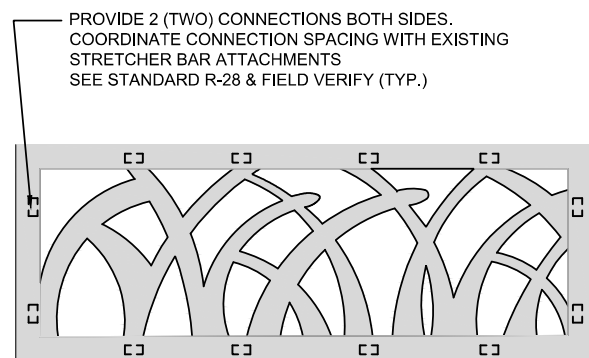
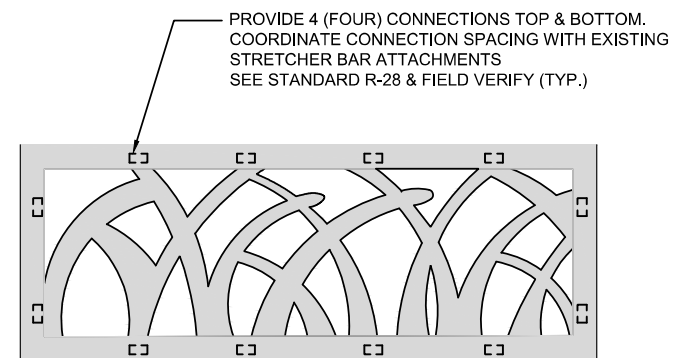
SCALE: AS SHOWN

| | | | | |
|---------------------------|----------------|-------------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 17 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



1 FENCE PANEL ELEVATION
3/4" = 1'-0"

EXISTING PARAPET (TYP.)



2 DECORATIVE FENCE PANEL MOUNTING BRACKET SPACING
3/4" = 1'-0"

GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHERE APPLICABLE TO THE WORK, AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES IN THE FIELD CONDITIONS IN WRITING PRIOR TO FABRICATION OR MOBILIZATION OF WORK FORCE. WRITTEN NOTICE SHALL INCLUDE, BUT NOT BE LIMITED TO, DATE, REFERENCES TO CONSTRUCTION DOCUMENTS, AND CONTRACTOR'S RECOMMENDATION FOR RECTIFYING DISCREPANCIES.
- DRAWINGS DESCRIBE THE DESIGN INTENT FOR FINAL SIZE, APPEARANCE AND CONFIGURATION OF ELEMENTS. CONTRACTOR SHALL PROVIDE, INSTALL AND BE RESPONSIBLE FOR: THE FINAL ENGINEERING OF THE ELEMENTS, CONNECTIONS AND ANCHORAGE SYSTEMS FOR THE ELEMENTS, AND FINAL ASSEMBLY TO ACHIEVE ORIGINAL DESIGN INTENT.

- MANUFACTURER WILL PROVIDE DESIGN AND SHOP DRAWINGS OF PANEL ITEMS:
 - INDICATING DIMENSIONS, MATERIALS, FINISHES, FASTENINGS, ANCHORAGE, JOINING, SEALING, BACKING
 - INDICATING ALL GRAPHIC ELEMENTS
 - ADDITIONAL ELEMENTS REQUIRED TO CLEARLY CONVEY THE FABRICATION AND INSTALLATION REQUIREMENTS
 - DESIGN CALCULATIONS
- NO FABRICATION SHALL BEGIN PRIOR TO RECEIVING APPROVAL BY THE ENGINEER.
- CONTRACTOR TO PROVIDE MOCK UP PLAN OF PANEL ASSEMBLIES
- ALL HARDWARE SHALL BE PAINTED TO MATCH COLOR OF THE PAINTED METAL WORK/ GRAPHIC BEING ATTACHED OR AS OTHERWISE INDICATED IN DRAWINGS

- ALL WELDS TO BE GROUND SMOOTH FOR A SEAMLESS APPEARANCE
- APPLY ALL PAINT FINISHES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

GRAPHIC PANEL NOTES:

- GRAPHICS PANEL SHALL BE THERMAL OR WATER JET CUT 1/4" ALUMINUM PANEL.
- DIGITAL VECTOR GRAPHICS FILE OF ARTWORK CAN BE PROVIDED BY COMMISSIONER AT CONTRACTOR'S REQUEST.
- CONTRACTOR TO SUBMIT SCALED MOCKUP OF GRAPHICS PANEL CONTAINING ALL COLORS TO BE UTILIZED IN FINAL FULL SIZE GRAPHICS FOR APPROVAL PRIOR TO FINAL PRODUCTION. SIZE OF MOCKUP SHALL BE AS APPROVED BY THE ENGINEER.

FILE NAME =
\$FILES
\$MODELNAME\$

DUPAGE COUNTY
D.U. OF TRANS
421 COUNTY FARM ROAD
WHEATON, IL

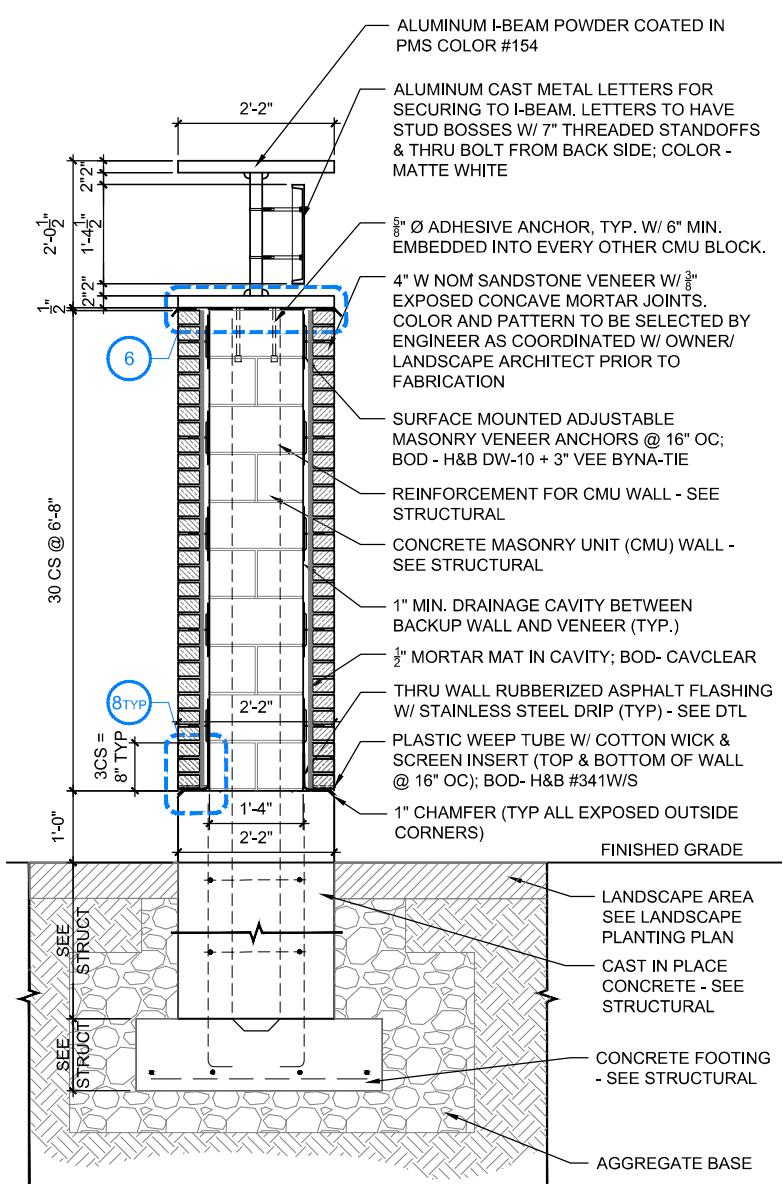
| | | |
|------------------------|-------------------|-----------|
| USER NAME = \$USERS | DESIGNED - JB | REVISED - |
| PLOT SCALE = \$SCALE\$ | DRAWN - JC | REVISED - |
| PLOT DATE = \$DATES | CHECKED - JB | REVISED - |
| | DATE - 06/10/2019 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

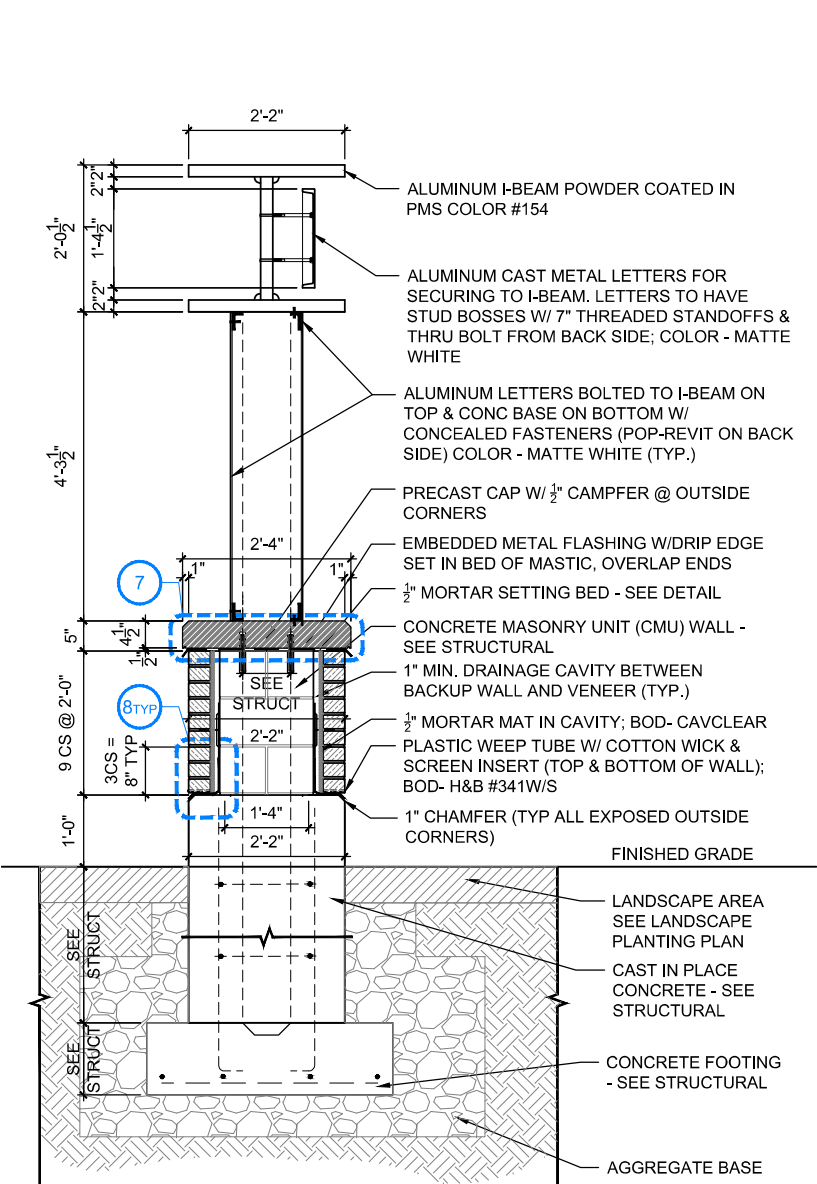
FENCE AFFIXMENT DETAILS

SCALE: AS SHOWN

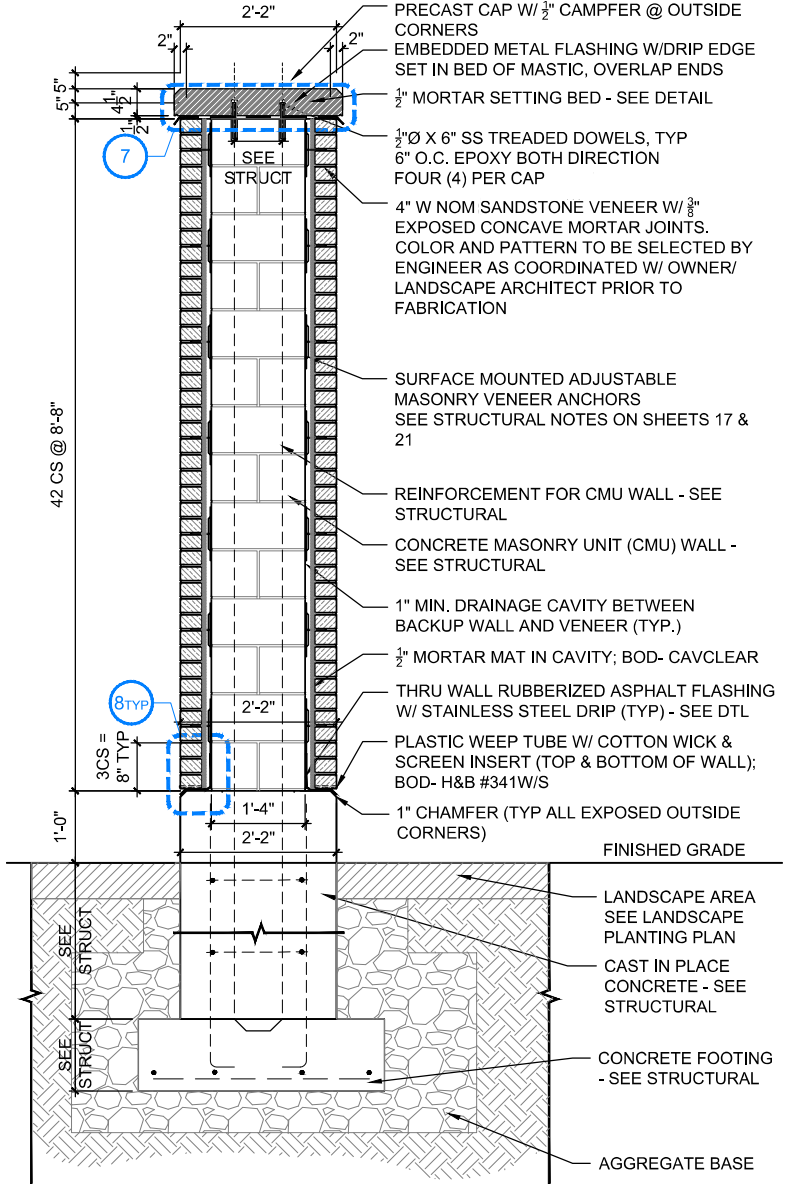
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 18 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



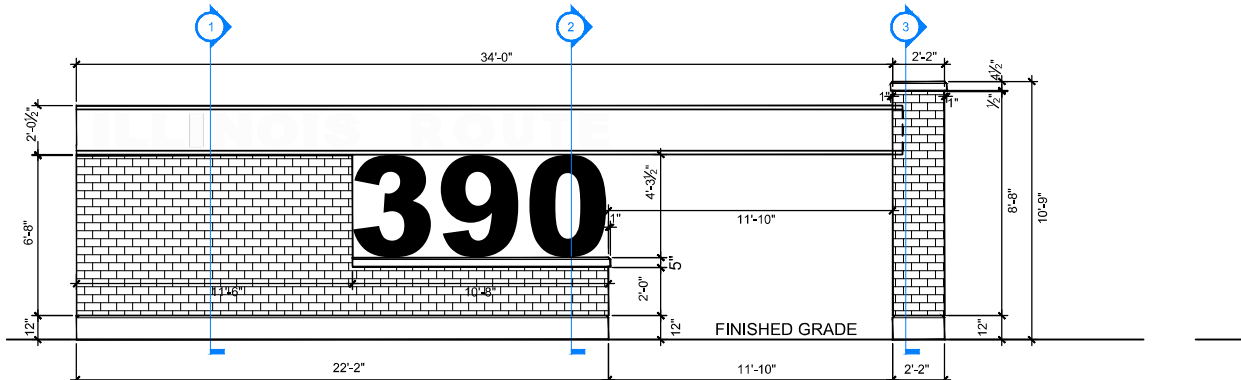
1 MONUMENT SIGN SECTION 1
3/4" = 1'-0"



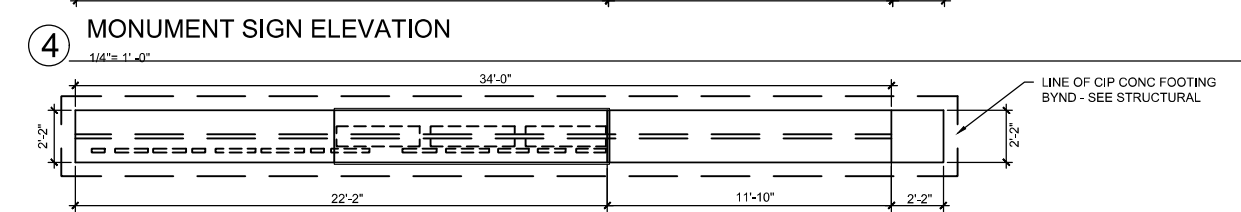
2 MONUMENT SIGN SECTION 2
3/4" = 1'-0"



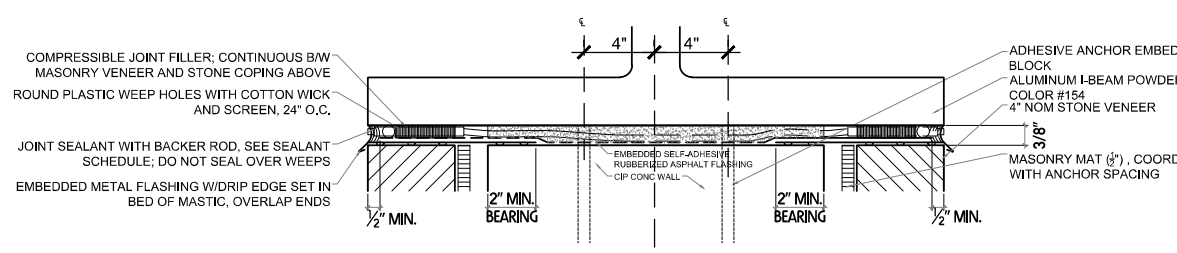
3 MONUMENT SIGN SECTION 3 (COLUMN)
3/4" = 1'-0"



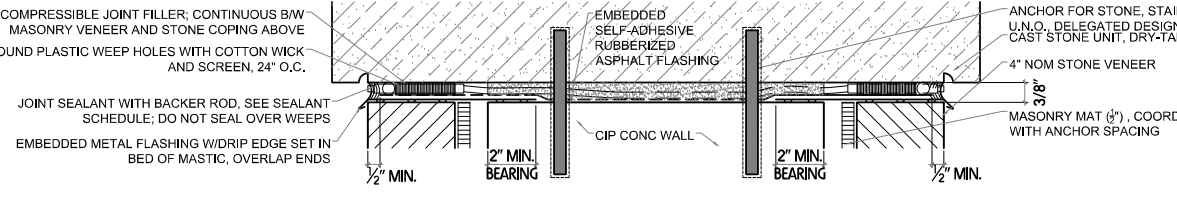
4 MONUMENT SIGN ELEVATION
1/4" = 1'-0"



5 MONUMENT SIGN PLAN
1/4" = 1'-0"



6 FLASHING DETAIL @ ALUMINUM BEAM
3" = 1'-0"



7 FLASHING DETAIL @ CAST COPING
3" = 1'-0"

- GENERAL NOTES**
STRUCTURAL CONNECTION OF I-BEAM TO COLUMN. SEE STRUCTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- GENERAL SIGN NOTES**
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHERE APPLICABLE TO THE WORK, AND SHALL NOTIFY THE COMMISSIONER OF DISCREPANCIES IN THE FIELD CONDITIONS IN WRITING PRIOR TO FABRICATION OR MOBILIZATION OF WORK FORCE. WRITTEN NOTICE SHALL INCLUDE, BUT NOT BE LIMITED TO, DATE, REFERENCES TO CONSTRUCTION DOCUMENTS, AND CONTRACTOR'S RECOMMENDATION FOR RECTIFYING DISCREPANCIES.
 - DRAWINGS DESCRIBE THE DESIGN INTENT FOR FINAL SIZE, APPEARANCE AND CONFIGURATION OF ELEMENTS. CONTRACTOR SHALL PROVIDE, INSTALL AND BE RESPONSIBLE FOR: THE FINAL ENGINEERING OF THE ELEMENTS, CONNECTIONS AND ANCHORAGE SYSTEMS FOR THE ELEMENTS, AND FINAL ASSEMBLY TO ACHIEVE ORIGINAL DESIGN INTENT.
 - MANUFACTURER WILL PROVIDE DESIGN AND SHOP DRAWINGS OF SIGNAGE ITEMS:
 - INDICATING DIMENSIONS, MATERIALS, FINISHES, FASTENINGS, ANCHORAGE, JOINING, SEALING, BACKING
 - INDICATING ALL GRAPHIC ELEMENTS
 - ADDITIONAL ELEMENTS REQUIRED TO CLEARLY CONVEY THE FABRICATING AND INSTALLATION REQUIREMENTS
 - DESIGN CALCULATIONS
 - NO FABRICATION SHALL BEGIN PRIOR TO RECEIVING APPROVAL BY COMMISSIONER.
 - CONTRACTOR TO PROVIDE MOCK UPS OF PANEL ASSEMBLIES
 - ALL HARDWARE SHALL BE PAINTED TO MATCH COLOR OF THE PAINTED METAL WORK/ GRAPHIC BEING ATTACHED OR AS OTHERWISE INDICATED IN DRAWINGS
 - ALL WELDS TO BE GROUND SMOOTH FOR A SEAMLESS APPEARANCE
 - APPLY ALL PAINT FINISHES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

8 TYPICAL FLASHING DETAIL
3" = 1'-0"

FILE NAME =
SFILES
SMODELNAME

| | | |
|-----------------------|-------------------|-----------|
| USER NAME = \$USERS | DESIGNED - JB | REVISED - |
| PLOT SCALE = \$SCALES | DRAWN - JC | REVISED - |
| PLOT DATE = \$DATES | CHECKED - JB | REVISED - |
| | DATE - 06/10/2019 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MONUMENT SIGN DETAILS
SCALE: AS SHOWN

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK | 37 | 19 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

Reinforcement bars shall conform to the requirements ASTM A 706 GR 60. Reinforcement bars designated (E) shall be epoxy coated. A normal surface finish followed by Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Anchor studs shall be installed in accordance with article 509.06 of the Standard Specifications and shall be included in the cost of Concrete Structures. Steel shapes shall be AASHTO M270 Grade 36 in accordance with article 1006.04 of the Standard Specifications. Steel shapes, bolts, nuts and washers shall be hot-dipped galvanized in accordance with AASHTO M232 or M111. Concrete masonry units shall be 8" wide, 1 1/4" face shell thickness, ground face block. Limestone veneer to be directly anchored to concrete masonry units. Anchoring with wire ties to the mortar bed will not be permitted. Veneer anchors shall be hot-dipped galvanized. Provide at least one anchor for each 2.67 Sq. Ft. of wall area. Spacing of veneer anchors shall not exceed 32" horizontally and 25" vertically. Contractor shall submit veneer anchoring system to the Engineer for approval. Cost of veneer anchors shall be included with Gateway Monument Sign Complete. See Gateway Monument Sign Detail on sheet 16 for Aluminum I-Beam, architectural components and details. Cost of steel shapes, bolts, nuts, anchors and washers shall be included in the cost of Concrete Structures. W1.7 ties and hoops to be hot-dipped galvanized. Cost included with Gateway Monument Sign Complete.

DESIGN SPECIFICATIONS

ACI 530-11: Building Code Requirements and Specifications for Masonry Structures. 2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

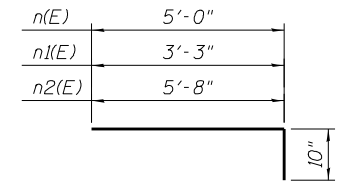
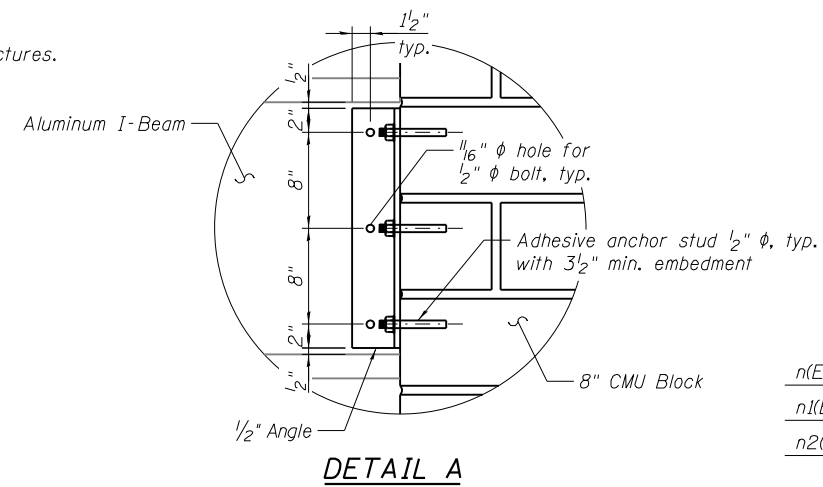
DESIGN STRESSES

MASONRY UNITS

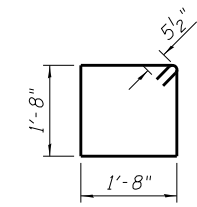
f'm = 1,500 psi
Fb = 500 psi
Fs = 32,000 psi
n = 21.5

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)



BARS n(E), n1(E) and n2(E)

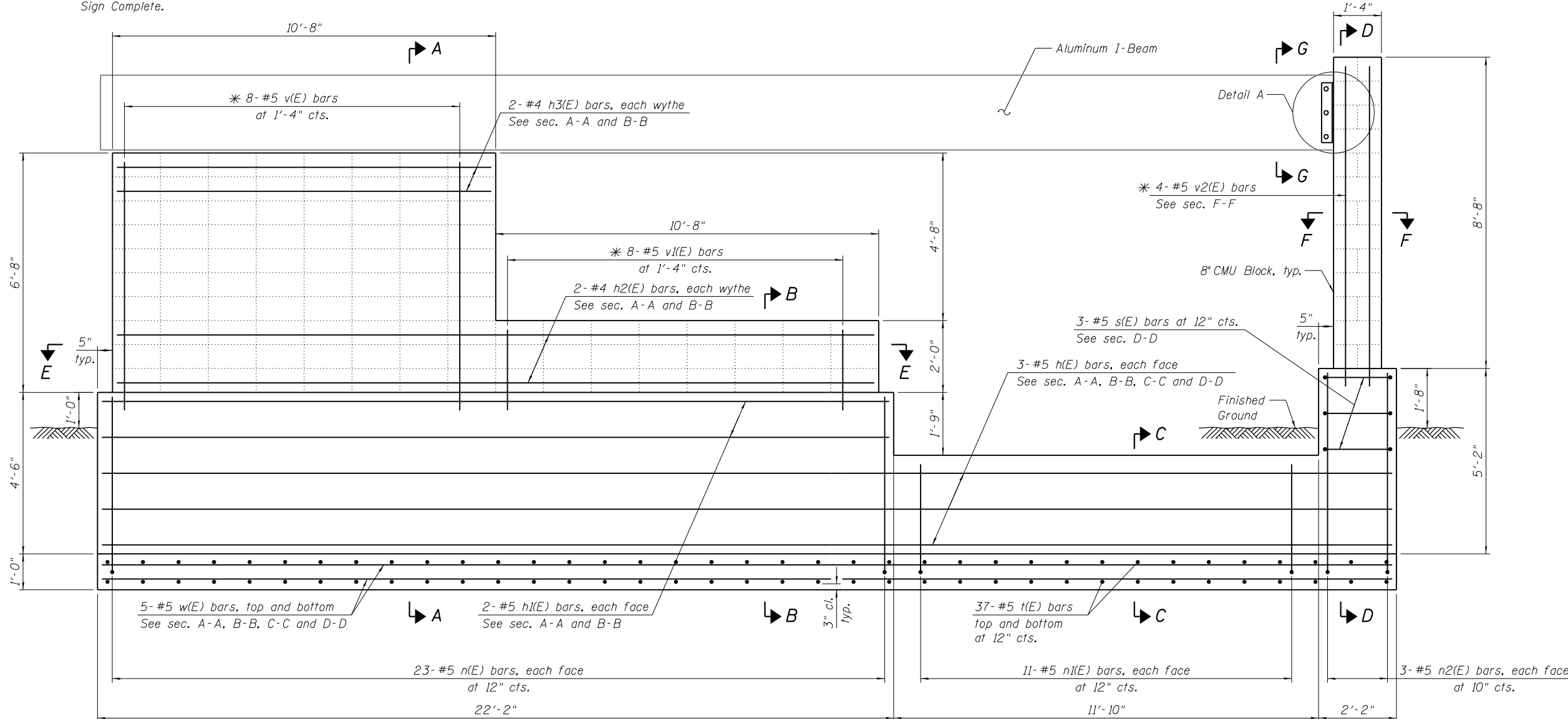


BAR s(E)

**** GATEWAY MONUMENT SIGN BILL OF MATERIAL**

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| h(E) | 6 | #5 | 35'-8" | — |
| h1(E) | 4 | #5 | 21'-8" | — |
| h2(E) | 4 | #4 | 21'-0" | — |
| h3(E) | 4 | #4 | 10'-4" | — |
| n(E) | 46 | #5 | 5'-10" | — |
| n1(E) | 22 | #5 | 4'-1" | — |
| n2(E) | 6 | #5 | 6'-6" | — |
| s(E) | 3 | #5 | 7'-7" | □ |
| t(E) | 74 | #5 | 4'-6" | — |
| v(E) | 16 | #5 | 7'-6" | — |
| v1(E) | 16 | #5 | 2'-6" | — |
| v2(E) | 4 | #5 | 9'-2" | — |
| w(E) | 10 | #5 | 35'-8" | — |
| Structure Excavation | | | Cu. Yd. | 61.0 |
| Concrete Structures | | | Cu. Yd. | 18.3 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 1,760 |
| Concrete Sealer | | | Sq. Ft. | 171 |
| Gateway Monument Sign Complete | | | Each | 1 |

** Quantities shown are for one gateway monument.



GATEWAY MONUMENT SIGN ELEVATION

(Architectural components not shown for clarity)

* Core and set bar according to article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufactures recommendations. Depth of hole shall be 10" minimum. Cost shall be included with Reinforcement Bars, Epoxy Coated.

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

DESIGNED - RGB
DRAWN - AMN
CHECKED - RGB
DATE - 6/10/2019

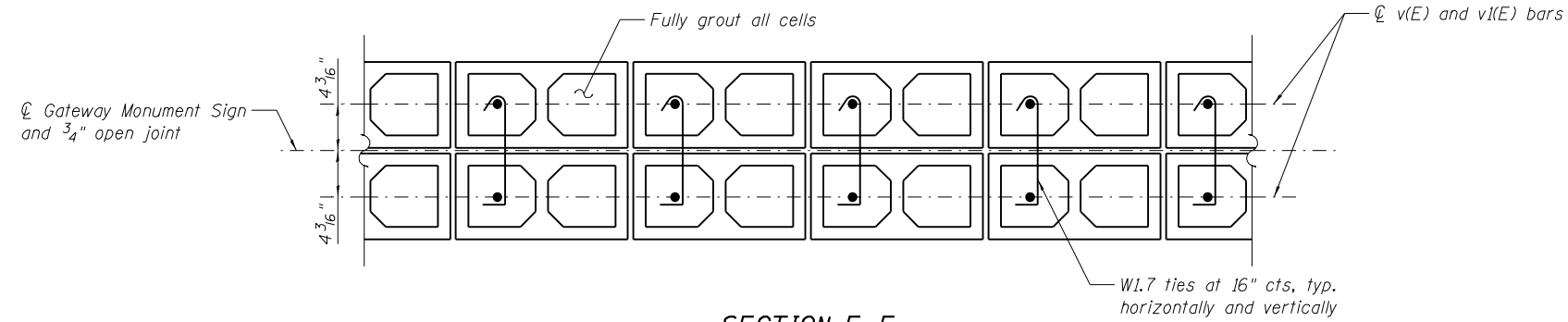
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

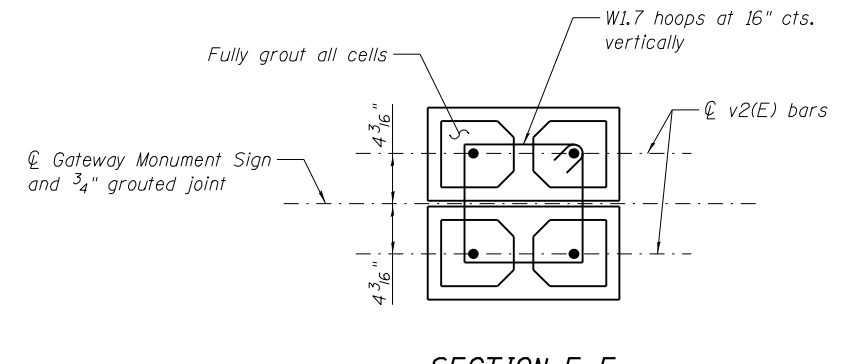
GATEWAY MONUMENT SIGN STRUCTURAL DETAIL

SCALE:

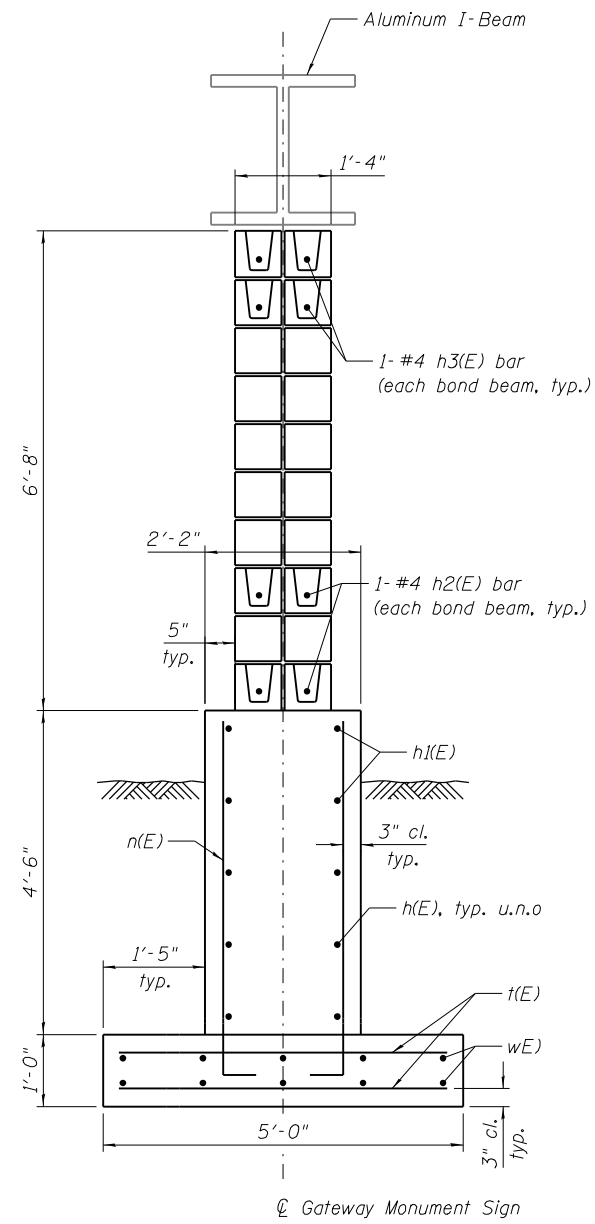
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 20 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



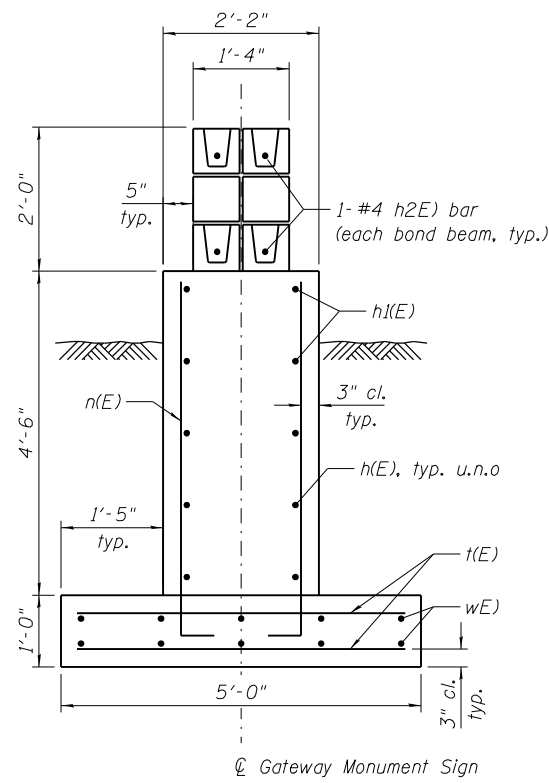
SECTION E-E



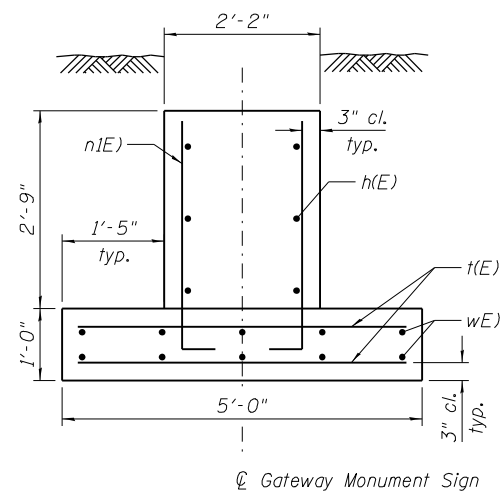
SECTION F-F



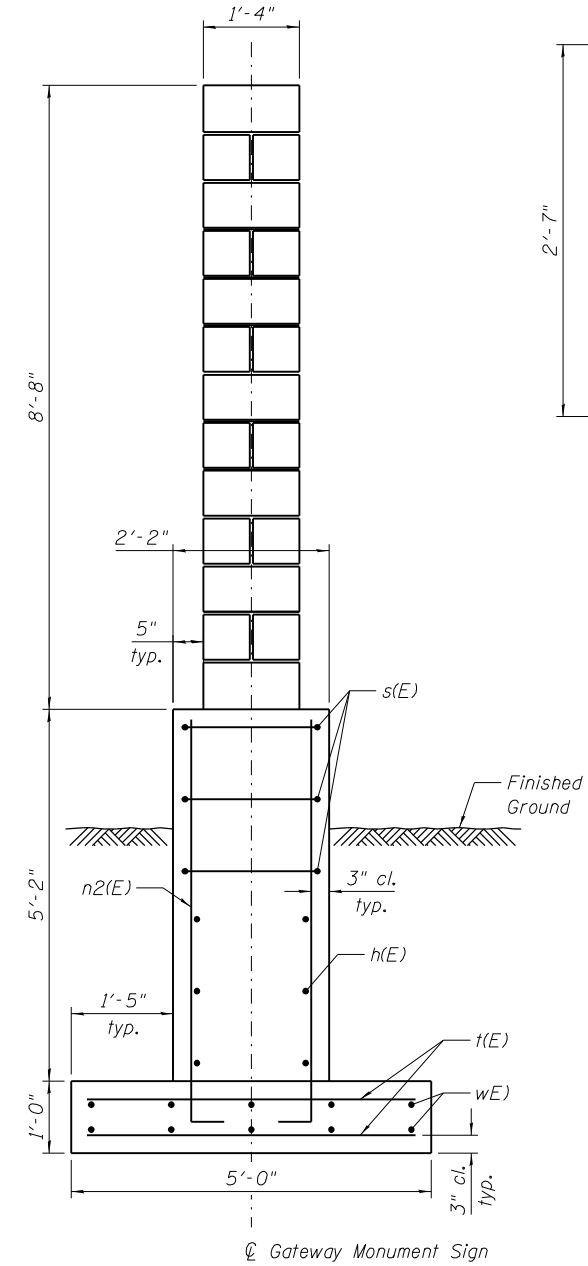
SECTION A-A



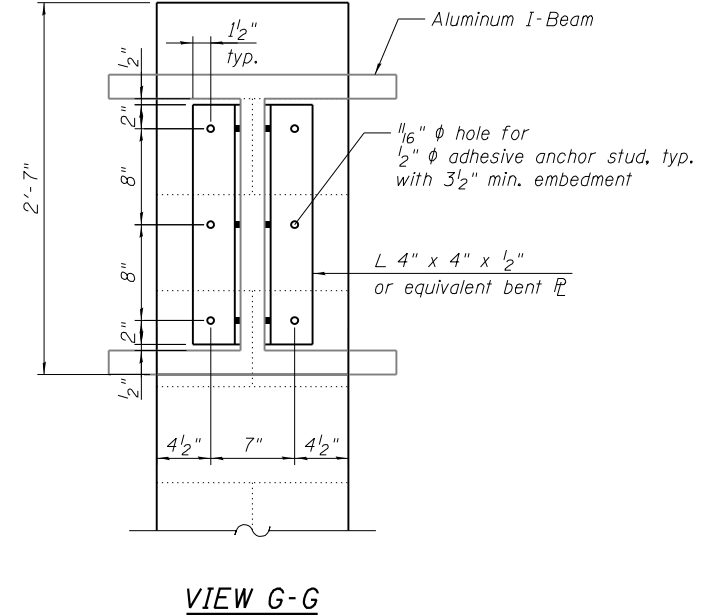
SECTION B-B



SECTION C-C



SECTION D-D



VIEW G-G

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

DESIGNED - RGB
DRAWN - AMN
CHECKED - RGB
DATE - 6/10/2019

REVISED -
REVISED -
REVISED -
REVISED -

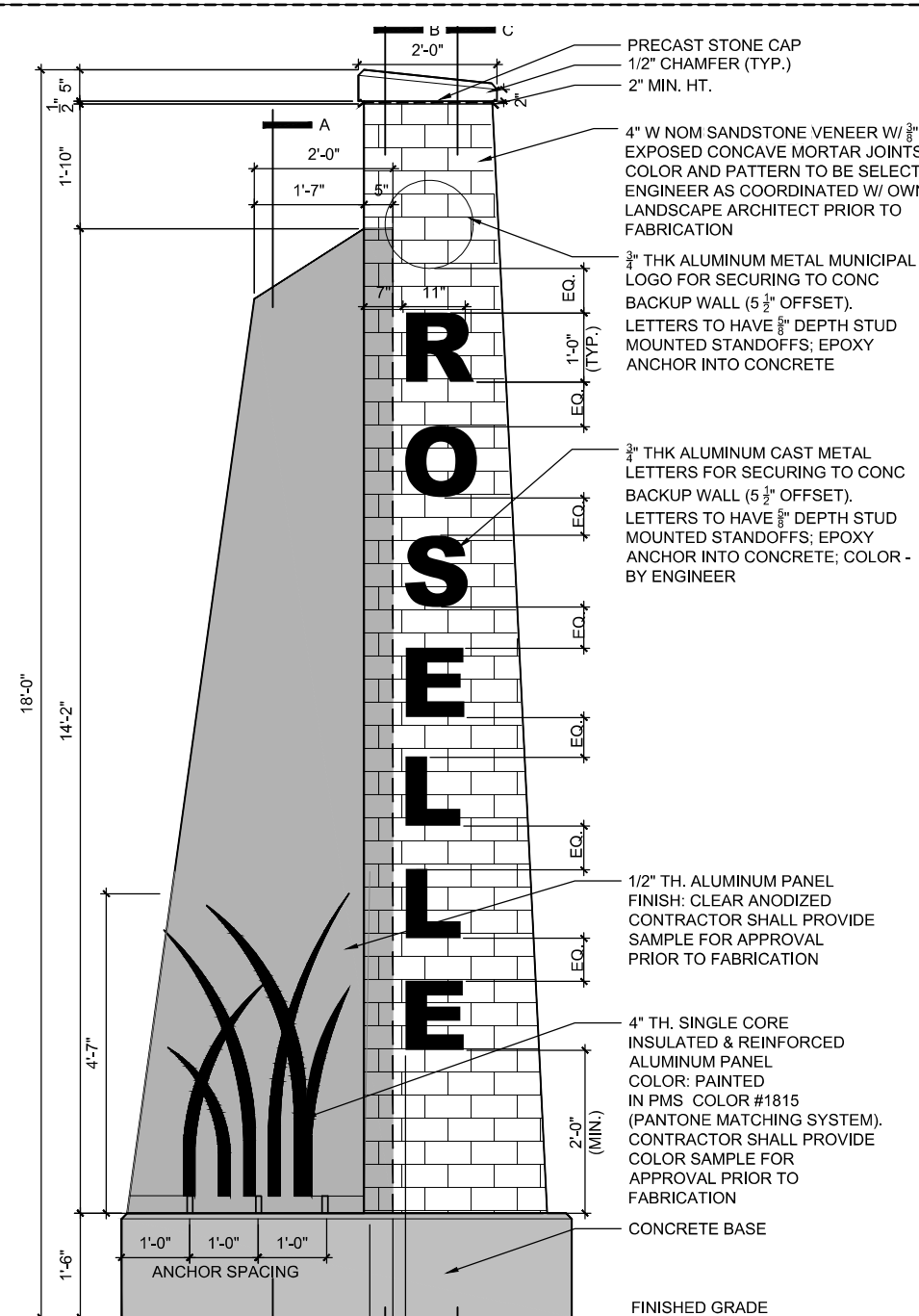
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GATEWAY MONUMENT SIGN STRUCTURAL DETAIL

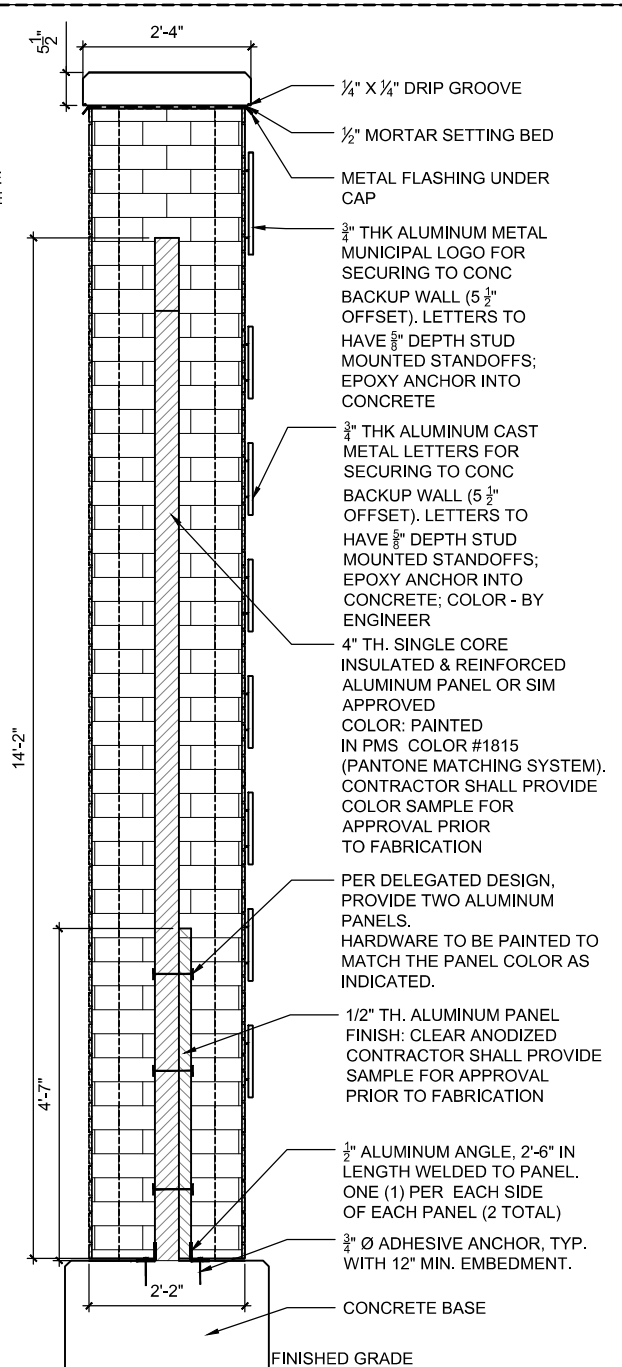
SCALE:

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 21 |
| CONTRACT NO. 61E69 | | | | |

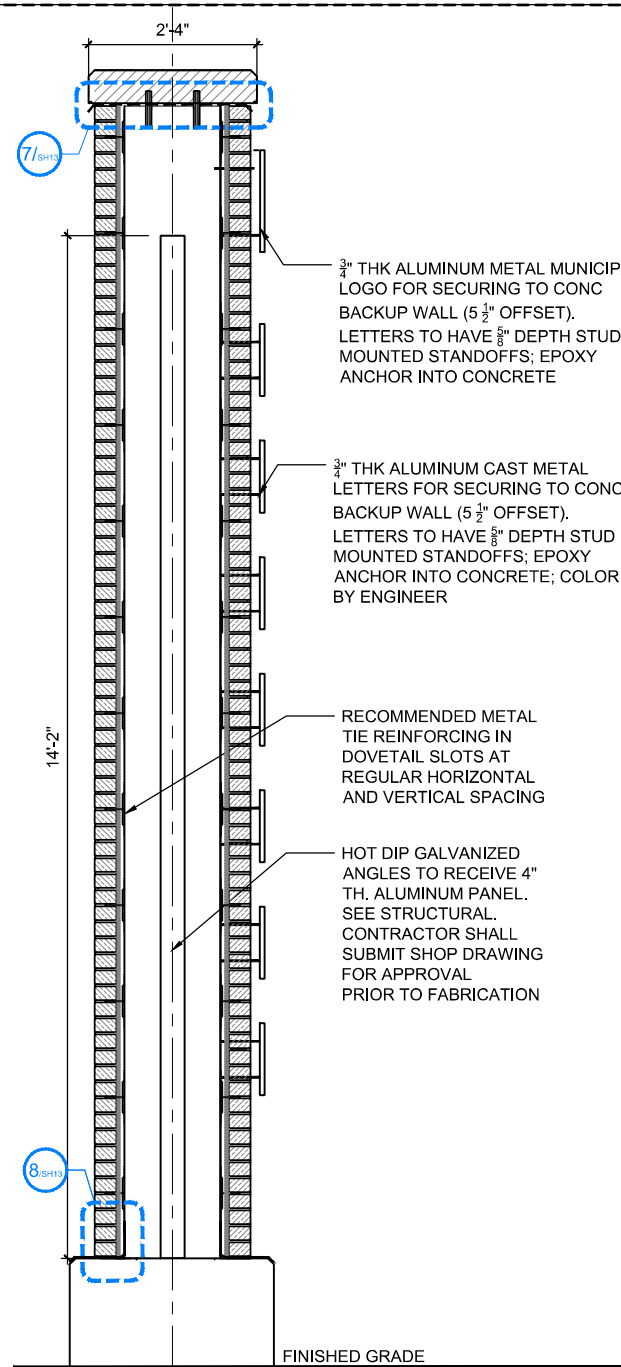
ILLINOIS FED. AID PROJECT



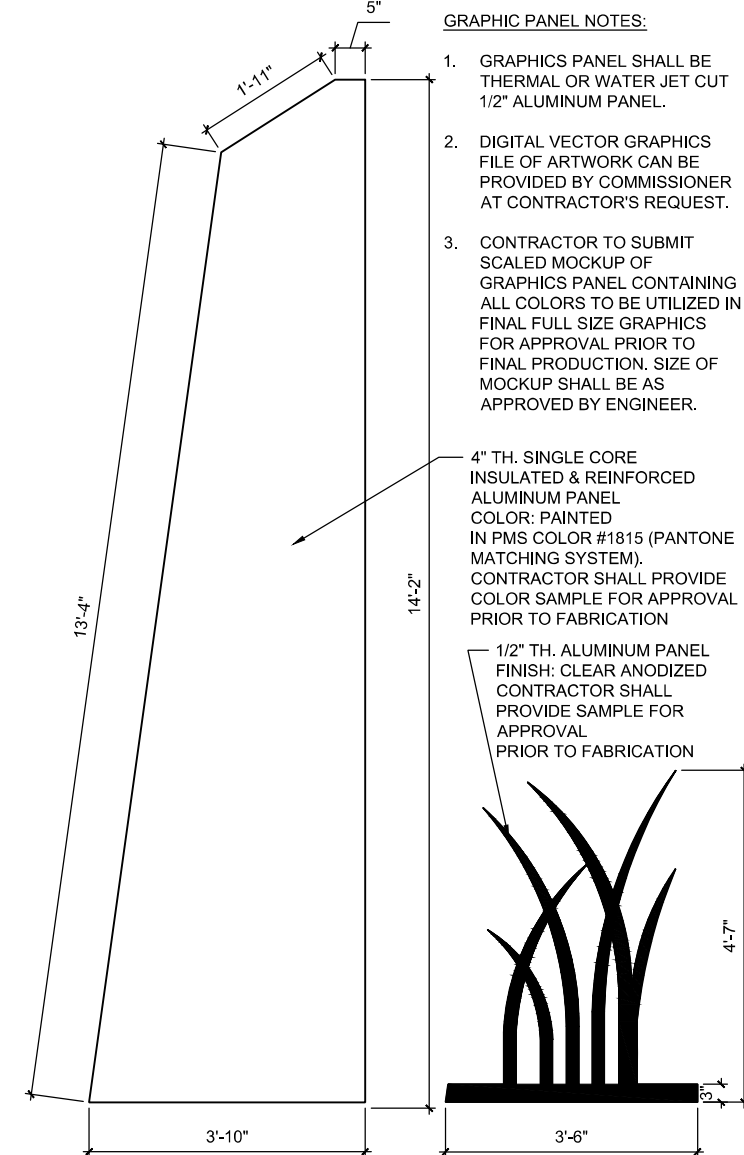
1 VERTICAL SIGN ELEVATION
3/4" = 1'-0"



2 VERTICAL SIGN SECTION A - A
3/4" = 1'-0"



3 VERTICAL SIGN SECTION B - B
3/4" = 1'-0"

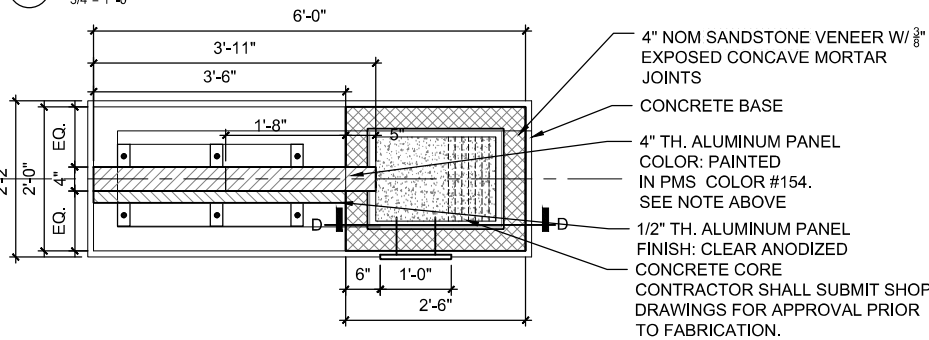
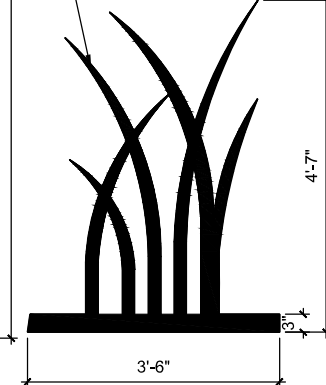


4 VERTICAL SIGN METAL SIGN DETAIL
3/4" = 1'-0"

- GRAPHIC PANEL NOTES:**
1. GRAPHICS PANEL SHALL BE THERMAL OR WATER JET CUT 1/2" ALUMINUM PANEL.
 2. DIGITAL VECTOR GRAPHICS FILE OF ARTWORK CAN BE PROVIDED BY COMMISSIONER AT CONTRACTOR'S REQUEST.
 3. CONTRACTOR TO SUBMIT SCALED MOCKUP OF GRAPHICS PANEL CONTAINING ALL COLORS TO BE UTILIZED IN FINAL FULL SIZE GRAPHICS FOR APPROVAL PRIOR TO FINAL PRODUCTION. SIZE OF MOCKUP SHALL BE AS APPROVED BY ENGINEER.

4" TH. SINGLE CORE INSULATED & REINFORCED ALUMINUM PANEL COLOR: PAINTED IN PMS COLOR #1815 (PANTONE MATCHING SYSTEM). CONTRACTOR SHALL PROVIDE COLOR SAMPLE FOR APPROVAL PRIOR TO FABRICATION

1/2" TH. ALUMINUM PANEL FINISH: CLEAR ANODIZED CONTRACTOR SHALL PROVIDE SAMPLE FOR APPROVAL PRIOR TO FABRICATION



5 VERTICAL SIGN PLAN
3/4" = 1'-0"

GENERAL SIGN NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHERE APPLICABLE TO THE WORK, AND SHALL NOTIFY THE COMMISSIONER OF DISCREPANCIES IN THE FIELD CONDITIONS IN WRITING PRIOR TO FABRICATION OR MOBILIZATION OF WORK FORCE. WRITTEN NOTICE SHALL INCLUDE, BUT NOT BE LIMITED TO, DATE, REFERENCES TO CONSTRUCTION DOCUMENTS, AND CONTRACTOR'S RECOMMENDATION FOR RECTIFYING DISCREPANCIES.
2. DRAWINGS DESCRIBE THE DESIGN INTENT FOR FINAL SIZE, APPEARANCE AND CONFIGURATION OF ELEMENTS. CONTRACTOR SHALL PROVIDE, INSTALL AND BE RESPONSIBLE FOR: THE FINAL ENGINEERING OF THE ELEMENTS, CONNECTIONS AND ANCHORAGE SYSTEMS FOR THE ELEMENTS, AND FINAL ASSEMBLY TO ACHIEVE ORIGINAL DESIGN INTENT.
3. MANUFACTURER WILL PROVIDE DESIGN AND SHOP DRAWINGS OF SIGNAGE ITEMS:
 - 3.1. INDICATING DIMENSIONS, MATERIALS, FINISHES, FASTENINGS, ANCHORAGE, JOINING, SEALING, BACKING
 - 3.2. INDICATING ALL GRAPHIC ELEMENTS
 - 3.3. ADDITIONAL ELEMENTS REQUIRED TO CLEARLY CONVEY THE FABRICATION AND INSTALLATION REQUIREMENTS
 - 3.4. DESIGN CALCULATIONS
4. NO FABRICATION SHALL BEGIN PRIOR TO RECEIVING APPROVAL BY COMMISSIONER.
5. CONTRACTOR TO PROVIDE MOCK UPS OF PANEL ASSEMBLIES
6. ALL HARDWARE SHALL BE PAINTED TO MATCH COLOR OF THE PAINTED METAL WORK/ GRAPHIC BEING ATTACHED OR AS OTHERWISE INDICATED IN DRAWINGS
7. ALL WELDS TO BE GROUND SMOOTH FOR A SEAMLESS APPEARANCE
8. APPLY ALL PAINT FINISHES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

FILE NAME =
SFILES
SMODELNAME\$

DUPAGE COUNTY
D.U. OF TRANS
421 COUNTY FARM ROAD
WHEATON, IL

USER NAME = \$USERS
PLOT SCALE = \$SCALE\$
PLOT DATE = \$DATES

DESIGNED - JB
DRAWN - JC
CHECKED - JB
DATE - 06/10/2019

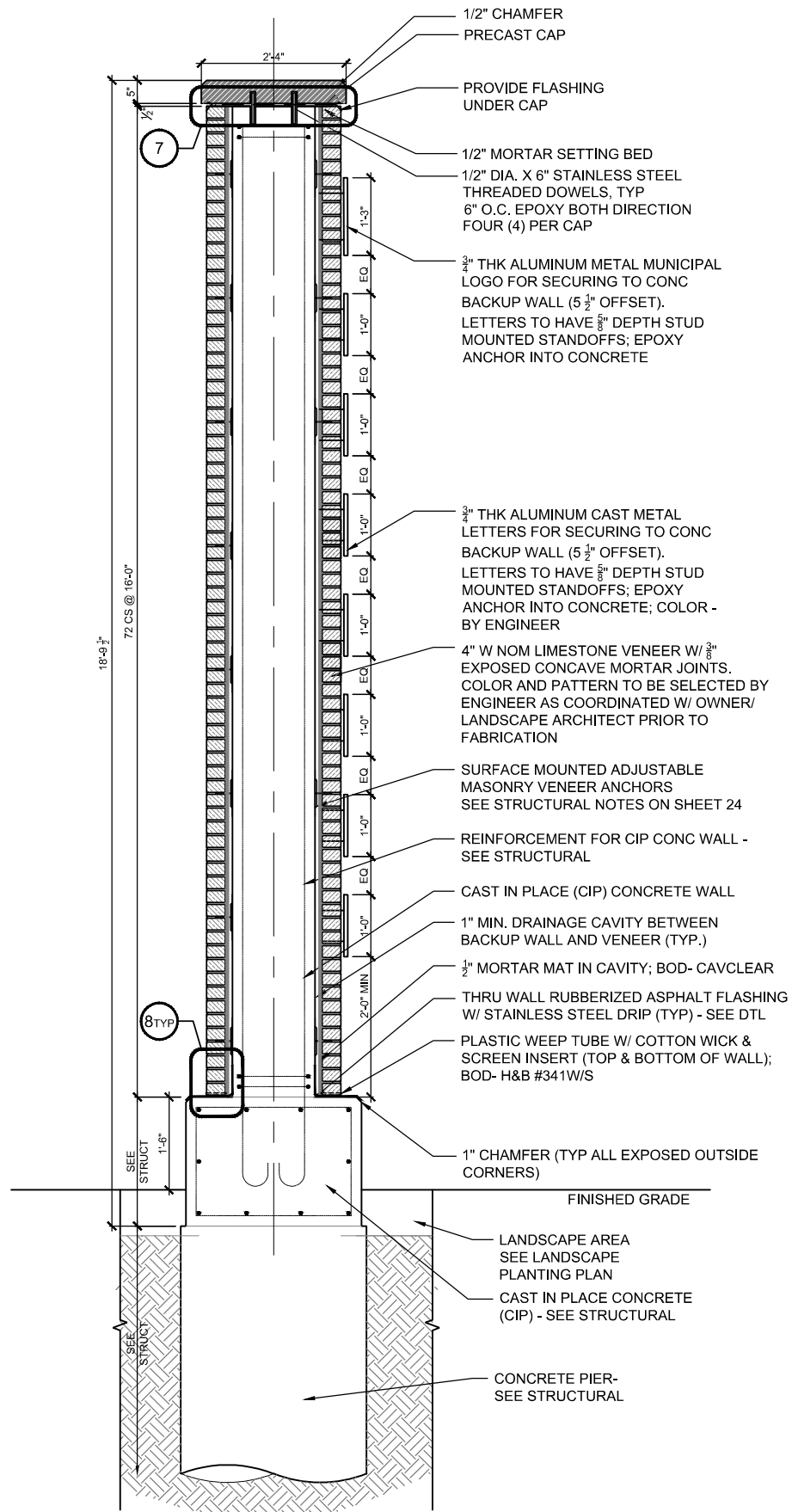
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

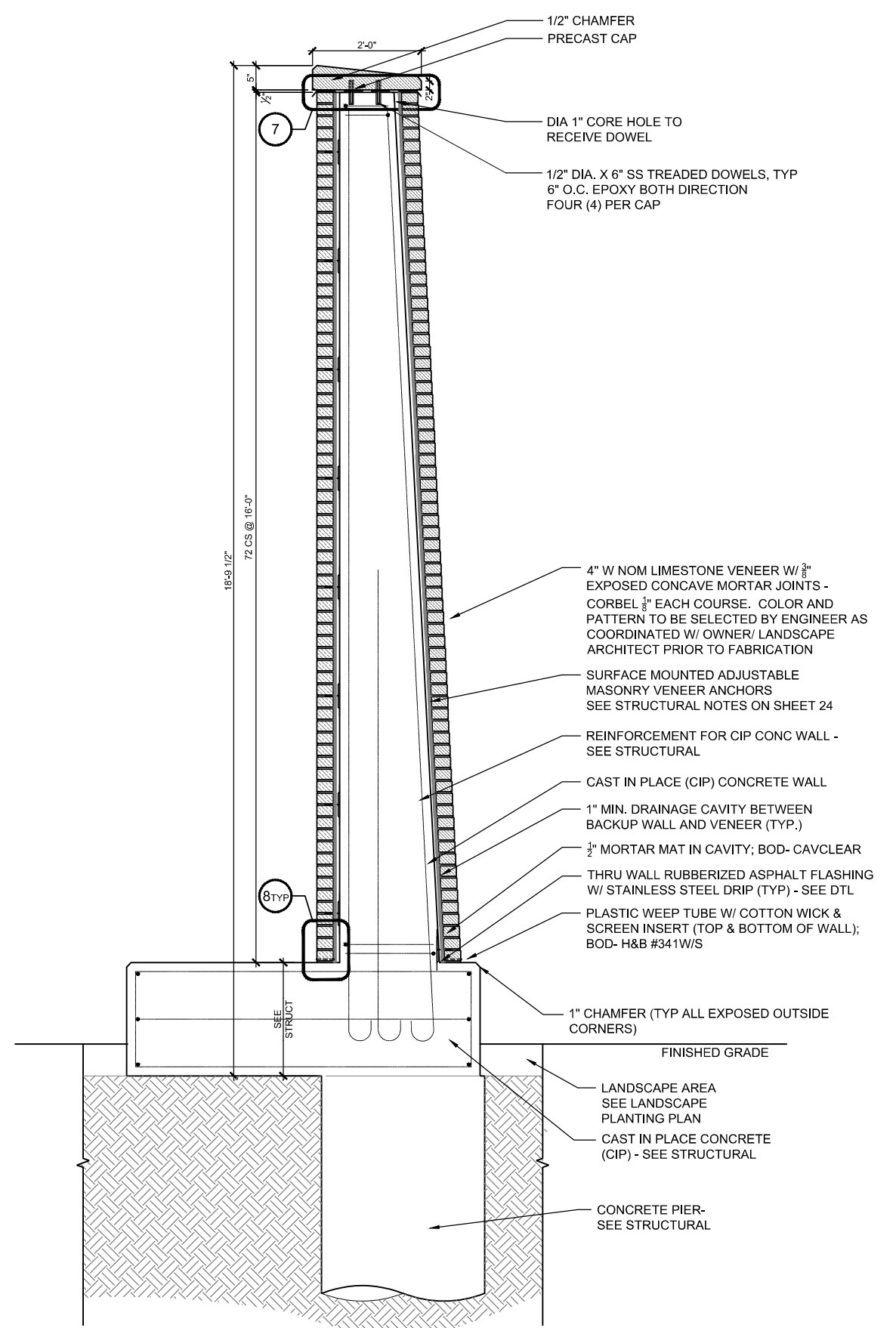
SCALE: AS SHOWN

VERTICAL SIGN DETAIL 1

| | | | | |
|--------------------|----------------|------------------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 345A | 14-00245-05-LS | COOK | 37 | 22 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |



1 VERTICAL SIGN SECTION C-C
3/4" = 1'-0"



2 VERTICAL SIGN SECTION D-D
3/4" = 1'-0"

FILE NAME =
\$FILES
SMODELNAME\$

DUPAGE COUNTY
D.U. OF TRANS
421 COUNTY FARM ROAD
WHEATON, IL

USER NAME = \$USERS
PLOT SCALE = \$SCALE\$
PLOT DATE = \$DATES

DESIGNED - JB
DRAWN - JC
CHECKED - JB
DATE - 06/10/2019

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VERTICAL SIGN DETAIL 1

SCALE: AS SHOWN

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 23 |
| CONTRACT NO. 61E69 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

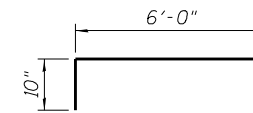
Reinforcement bars shall conform to the requirements ASTM A 706 GR 60.
 Reinforcement bars designated (E) shall be epoxy coated.
 A normal surface finish followed by Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line.
 Anchor studs shall be installed in accordance with article 509.06 of the Standard Specifications and shall be included in the cost of Concrete Structures.
 Steel shapes shall be AASHTO M270 Grade 36 in accordance with article 1006.04 of the Standard Specifications.
 Steel shapes, bolts, nuts and washers shall be hot-dipped galvanized in accordance with AASHTO M232 or M111.
 Limestone veneer to be directly anchored to concrete. Anchoring with wire ties to the mortar bed will not be permitted. Veneer anchors shall be hot-dipped galvanized. Provide at least one anchor for each 2.67 Sq. Ft. of wall area. Spacing of veneer anchors shall not exceed 32" horizontally and 25" vertically.
 Contractor shall submit veneer anchoring system to the Engineer for approval. Cost of veneer anchors shall be included with Vertical Identifier Sign Complete.
 See Vertical Identifier Sign Details on sheets 19 and 20 for architectural components and details.
 Cost of steel shapes, bolts, nuts, anchors and washers shall be included in the cost of Concrete Structures.

DESIGN SPECIFICATIONS

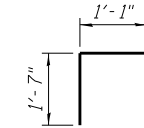
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

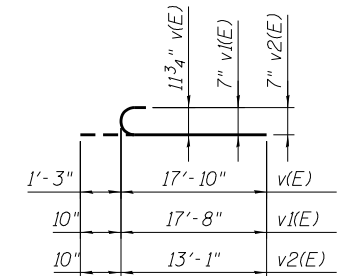
FIELD UNITS
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



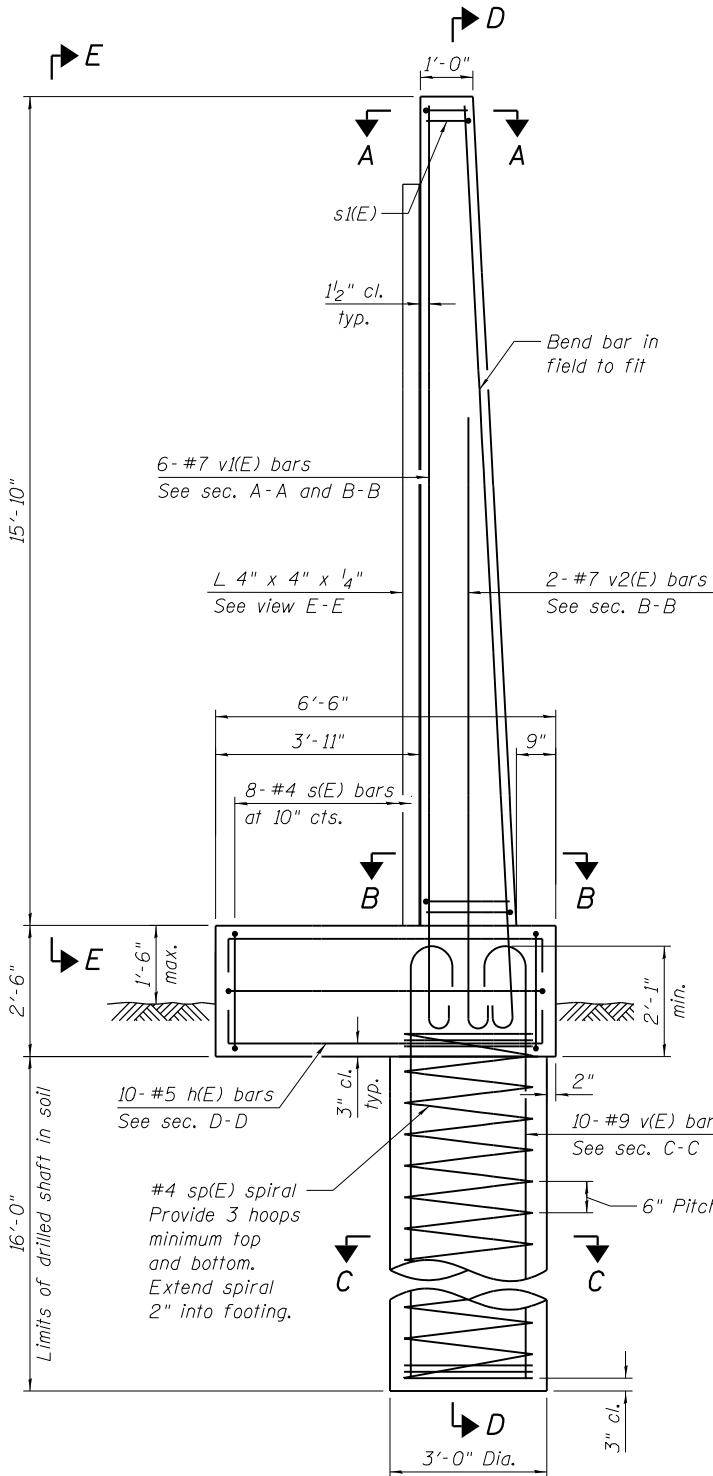
BAR h(E)



BAR s1(E)

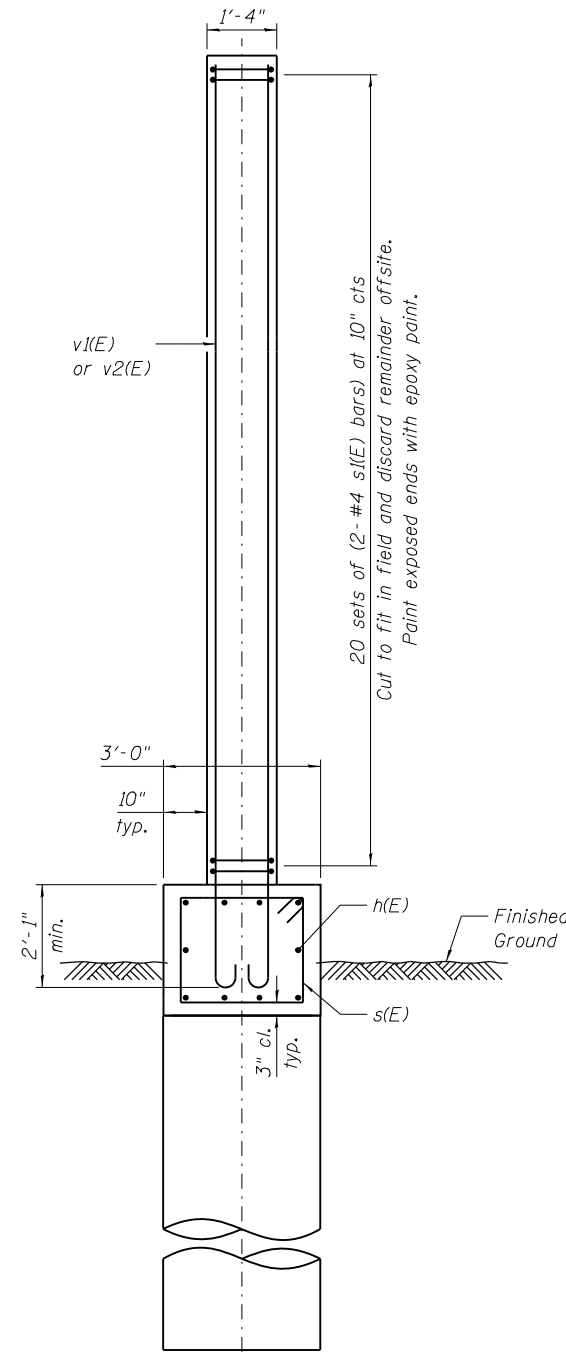


BARS v(E), v1(E) and v2(E)



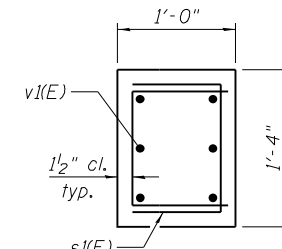
VERTICAL IDENTIFIER

(Architectural components not shown for clarity)

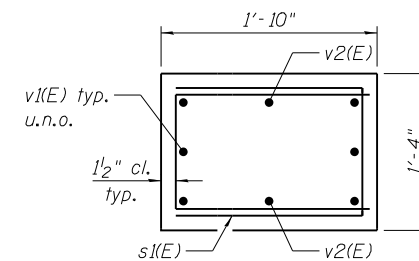


SECTION D-D

(Bars v(E) and sp(E) not shown for clarity)

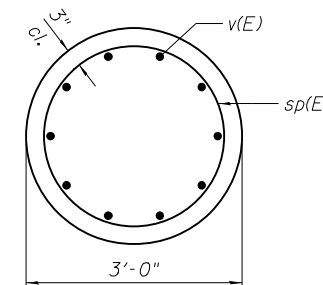


SECTION A-A

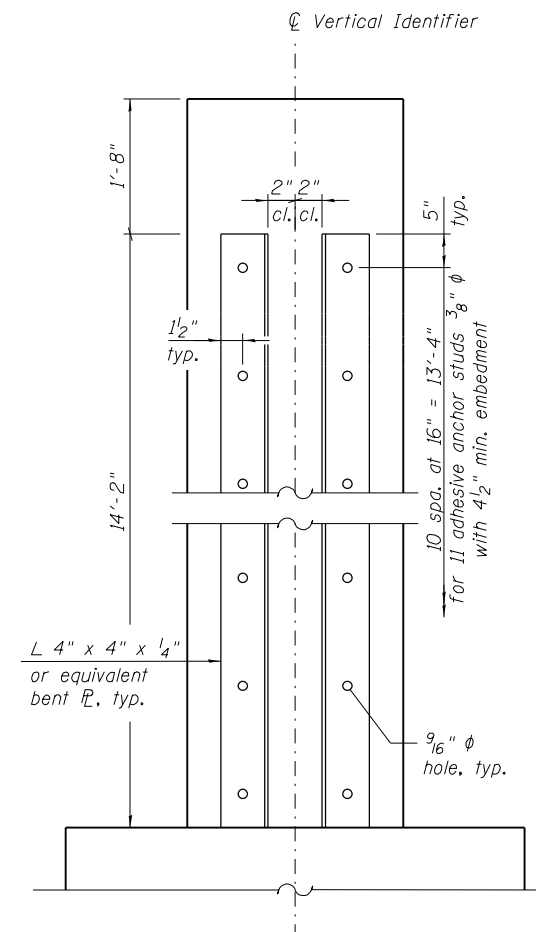


SECTION B-B

(Steel plate and anchors not shown for clarity)



SECTION C-C



VIEW E-E

*** VERTICAL IDENTIFIER SIGN BILL OF MATERIAL**

| Bar | No. | Size | Length | Shape |
|-----------------------------------|-----|---------|---------|-------|
| h(E) | 10 | #5 | 7'-8" | ┌ |
| s(E) | 8 | #4 | 9'-9" | └ |
| s1(E) | 40 | #4 | 4'-3" | ┌ |
| sp(E) | 1 | #4 | 15'-11" | ⌀ |
| v(E) | 10 | #9 | 19'-1" | ┌ |
| v1(E) | 6 | #7 | 18'-6" | ┌ |
| v2(E) | 2 | #7 | 13'-11" | ┌ |
| Structure Excavation | | Cu. Yd. | 5.0 | |
| Concrete Structures | | Cu. Yd. | 3.0 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 1,380 | |
| Drilled Shaft in Soil | | Cu. Yd. | 4.2 | |
| Concrete Sealer | | Sq. Ft. | 134 | |
| Vertical Identifier Sign Complete | | Each | 1 | |

* Quantities shown are for one vertical identifier.
 ** Length is height of spiral.

DUPAGE COUNTY
 DIVISION OF TRANSPORTATION
 421 COUNTY FARM ROAD
 WHEATON, IL

DESIGNED - RGB
 DRAWN - AMN
 CHECKED - RGB
 DATE - 6/10/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

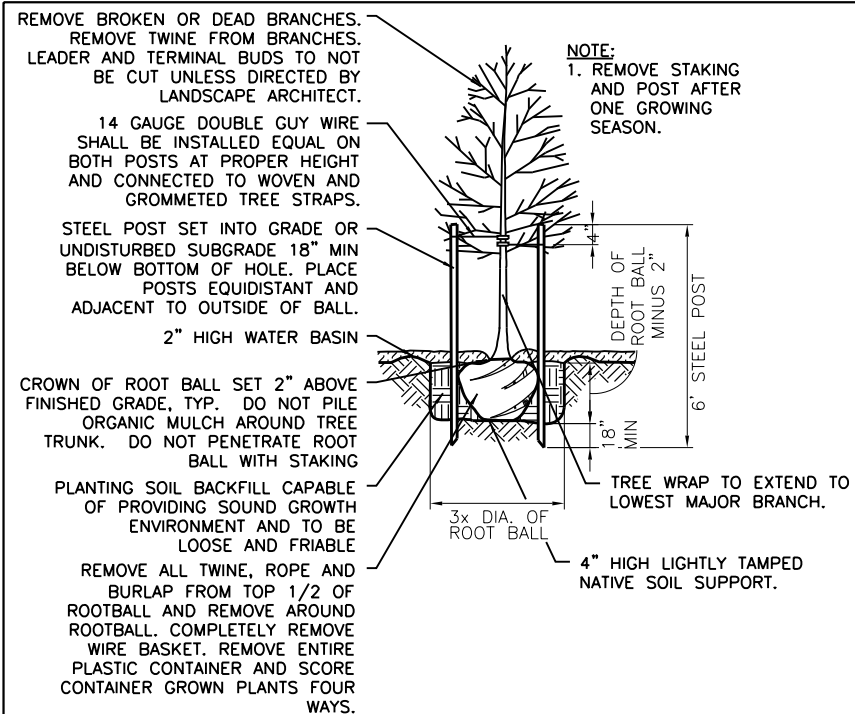
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

VERTICAL IDENTIFIER SIGN STRUCTURAL DETAIL

SCALE:

| F.A.P. RT.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 24 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT



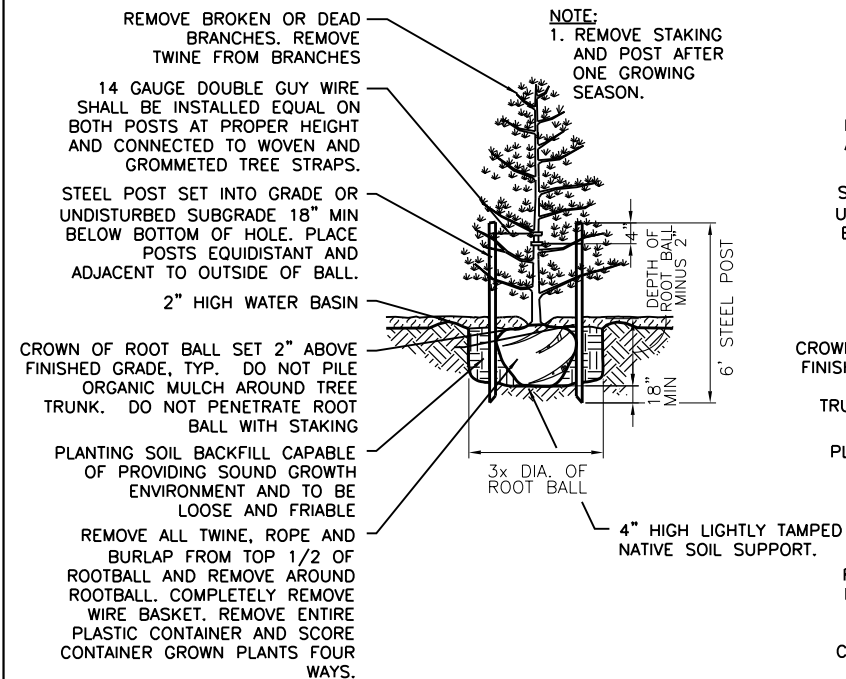
PLANT SCHEDULE

| DECIDUOUS TREES | QTY | LAKE STREET | ROSELLE ROAD | ROWLING ROAD | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | SPACING | REMARKS |
|--------------------|-----|-------------|--------------|--------------|------------------------------------|-------------------------|------------|------|----------------------|-------------------|
| GIB | 10 | 10 | | | GINKGO BILOBA 'PRINCETON SENTRY' | PRINCETON SENTRY GINKGO | 2 1/2" CAL | B&B | VARIABLES, SEE PLANS | MATCHING SPECIMEN |
| QUB | 7 | 7 | | | QUERCUS BICOLOR | SWAMP WHITE OAK | 2 1/2" CAL | B&B | VARIABLES, SEE PLANS | MATCHING SPECIMEN |
| QUI | 19 | 19 | | | QUERCUS IMBRICARIA | SHINGLE OAK | 2 1/2" CAL | B&B | VARIABLES, SEE PLANS | MATCHING SPECIMEN |
| UAP | 10 | 10 | | | ULMUS AMERICANA 'PRINCETON' | PRINCETON ELM | 2 1/2" CAL | B&B | VARIABLES, SEE PLANS | MATCHING SPECIMEN |
| EVERGREEN TREES | QTY | LAKE STREET | ROSELLE ROAD | ROWLING ROAD | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | SPACING | REMARKS |
| PIG | 10 | 10 | | | PICEA GLAUCA 'DENSATA' | BLACK HILLS SPRUCE | 8' HT. | B&B | VARIABLES, SEE PLANS | MATCHING SPECIMEN |
| SHRUBS | QTY | LAKE STREET | ROSELLE ROAD | ROWLING ROAD | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | SPACING | REMARKS |
| ARM | 108 | 62 | 8 | 38 | ARONIA MELANOCARPA | BLACK CHOKEBERRY | 2' HT. | CG | 5 FT O.C. | |
| COC | 22 | | 22 | | CEPHALANTHUS OCCIDENTALIS | BUTTONBUSH | 2' HT. | CG | 5 FT O.C. | |
| HYP | 264 | 89 | | 175 | HYPERICUM KALMIANUM | KALM ST. JOHNSWORT | 2' HT. | CG | 2.5 FT O.C. | |
| HYP | 90 | 29 | 22 | 39 | HYDRANGEA PANICULATA 'LITTLE LIME' | LITTLE LIME HYDRANGEA | 2' HT. | CG | 4 FT O.C. | |
| PHO | 40 | 10 | 7 | 23 | PHYSOCARPUS OPULIFOLIUS | COMMON NINEBARK | 5 GAL | CG | 5 FT O.C. | |
| RHA | 18 | 18 | | | RHUS AROMATICA 'GRO-LOW' | GRO-LOW FRAGRANT SUMAC | 2 GAL | CG | 5 FT O.C. | |
| EVERGREEN SHRUBS | QTY | LAKE STREET | ROSELLE ROAD | ROWLING ROAD | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | SPACING | REMARKS |
| JUH | 67 | 8 | 24 | 35 | JUNIPERUS HORIZONTALIS | CREeping JUNIPER | 2' W | CG | 6 FT O.C. | |
| TAM | 74 | 42 | 6 | 26 | TAXUS x MEDIA 'DENSIFORMIS' | DENSE YEW | 2' W | CG | 5 FT O.C. | |
| ORNAMENTAL GRASSES | QTY | LAKE STREET | ROSELLE ROAD | ROWLING ROAD | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | SPACING | REMARKS |
| PAV | 56 | | 16 | 40 | PANICUM VIRGATUM | SWITCH GRASS | 2 GAL | CG | 3 FT O.C. | |
| SPH | 392 | 97 | 86 | 209 | SPOROBOLUS HETEROLEPIS | PRAIRIE DROPSEED | 2 GAL | CG | 2.5 FT O.C. | |
| PERENNIALS | QTY | LAKE STREET | ROSELLE ROAD | ROWLING ROAD | BOTANICAL NAME | COMMON NAME | SIZE | ROOT | SPACING | REMARKS |
| PEA | 222 | 107 | 40 | 75 | PEROVSKIA ATRIPLICIFOLIA | RUSSIAN SAGE | 2 GAL | CG | 3 FT O.C. | |

DECIDUOUS TREE

NOT TO SCALE

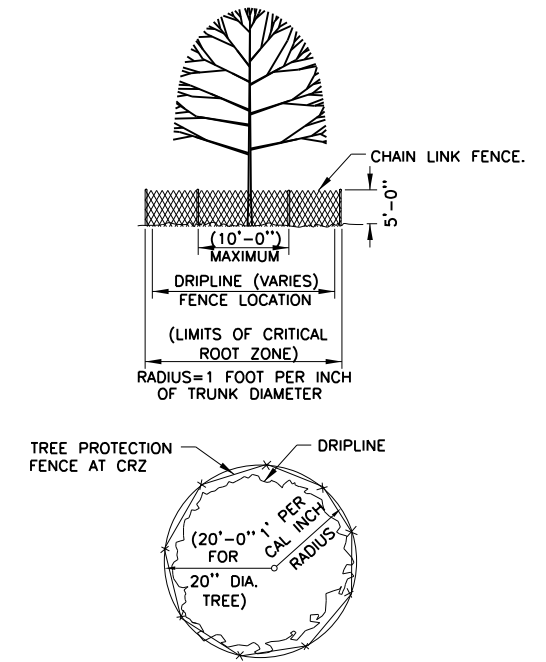
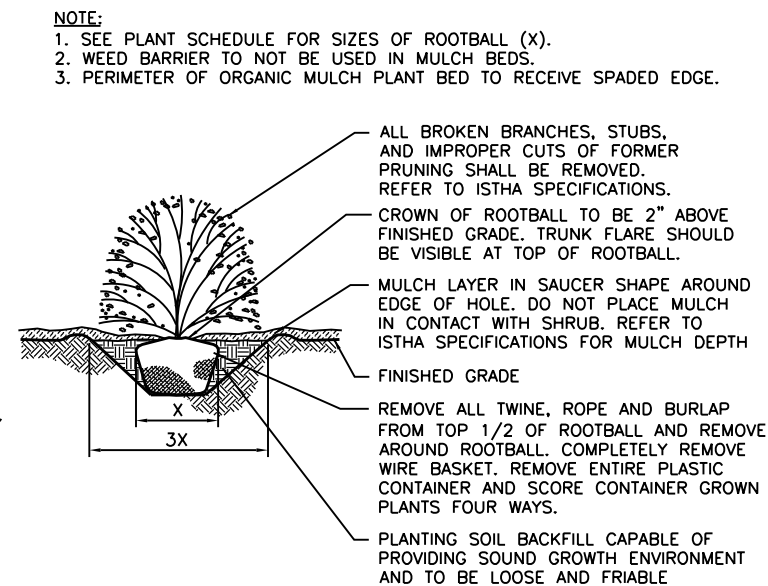
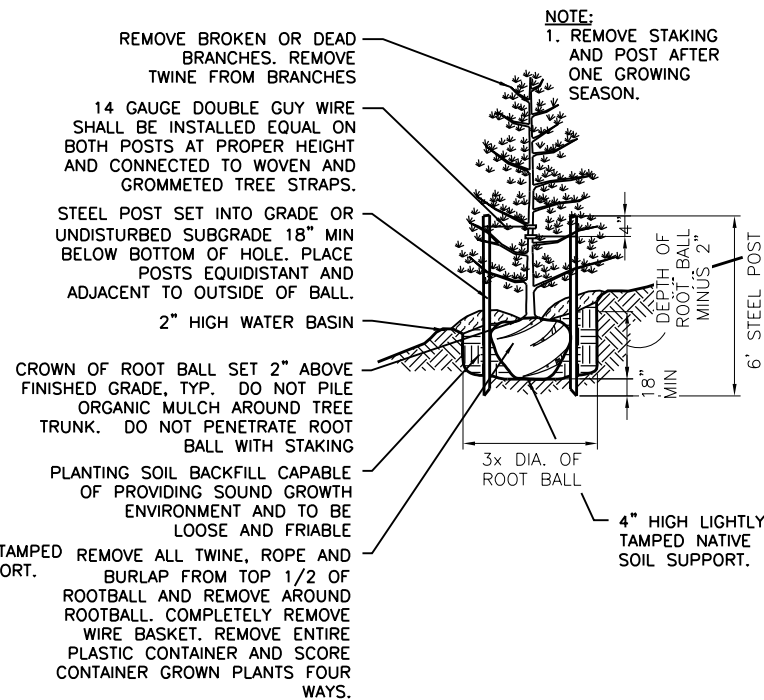
A



PLANT SCHEDULE

NOT TO SCALE

B



EVERGREEN TREE

NOT TO SCALE

C

EVERGREEN TREE ON SLOPE

NOT TO SCALE

D

SHRUB

NOT TO SCALE

E

TREE PRESERVATION DETAIL

NOT TO SCALE

F



FL10 Solar Sign Light System



This sign light system is supplied with one light fixture offered in 5W, 10W, 20W, or 30W. Increasing the power (Wattage) of the light fixture increases the light spread, as well as the light intensity. Each light fixture is capable of illuminating signs with the dimensions as follows:

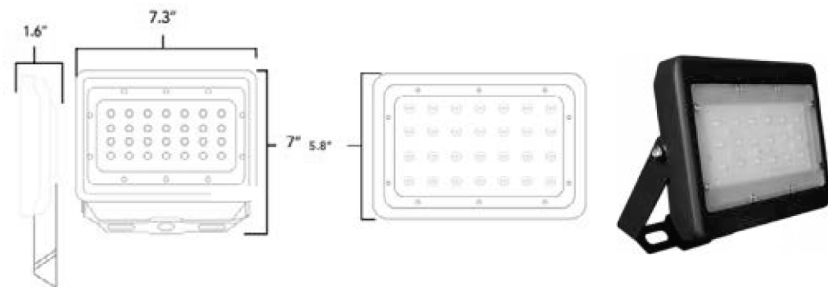
5W: Up to 8' x 8' 20W: Up to 14' x 12'
10W: Up to 12' x 10' 30W: Up to 18' x 12'

The above sign dimensions are based on the light fixture mounted approx. 6' from the face of the sign.

Illumination time is up to 8 hours, or dusk to dawn. Additional illumination times are available upon request.



| | | | |
|-------------------|---------------------|-----------------------|---------------------|
| Color Temperature | 5700k | Waterproof Rating | IP65 |
| CRI | >70 | LED Brand | LUMILEDS |
| Input Power | 5W, 10W, 20W or 30W | LED Type | LUXEON 3030 2D |
| Lumens | 5W 665 lm | Cable Length | 20' |
| | 10W 1330 lm | PF | >0.9 |
| | 20W 2660 lm | Housing | Aluminum, PC, Steel |
| | 30W 3990 lm | Housing Color | Brown / Bronze |
| Viewing Angle | 7H7V | Operating Temperature | -4° to 113°F |
| Input Voltage | 24V DC | Safety Certification | UL, cUL, DLC |
| Driver Model | Meanwell | | |



Lowest Price Guarantee 20 Year Panel Warranty 5 Year Product Warranty Lifetime Tech Support Worldwide Shipping

5611 Halifax Avenue • Fort Myers • FL • 33912 • USA • Phone: 239-461-5522 • Fax: 239-337-7887
MONDAY - FRIDAY 8.00AM - 5.00PM (US EASTERN TIME)

www.solarilluminations.com • sales@solarilluminations.com

SUBJECT TO OUR TERMS & CONDITIONS AND RETURNS POLICY

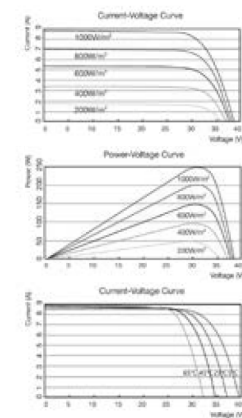
0402019M12



FL10 Solar Sign Light System



MC4 Connector



Solar Panel

Systems are supplied with high quality monocrystalline or polycrystalline solar panels with the highest performance and efficiency. They are designed to endure the harshest environments, and are guaranteed to provide power for well over 20 years. Typically manufactured in the USA, Canada, or Germany. The solar panel power is subject to LED consumption, installation location, and illumination period. Please consult with our engineers for specific details and solar power recommendations.

Photovoltaic Module

- Highly efficient monocrystalline or polycrystalline solar panel with aluminum frame, anti-aging, and encapsulated membrane.
- Anti-reflective and anti-soiling surface that reduces power losses from dirt and dust.
- Certified to withstand high wind loads (340PSI) and snow loads (780PSI); and resistance to high salt and ammonia.
- Manufactured to international standards, verified and certified by independent testing laboratories. (UL, ETL, IEC, MCS, & TUV)
- Assembled to strict quality control standards; international standards ISO 9001 and ISO 14001.
- Range of solar panel power available from 45W to +500W.
- The solar panel power is subject to LED consumption, installation location, and illumination period. Please consult our engineers for specific solar power requirements.
- Solar panels can be supplied in a single or dual format (2 x 70W = 140W, 2 x 100W = 200W etc.)
- Typical solar panel life is over 30 years, subject to environmental factors.
- 45W panel dimensions: 34.25" x 20.13" x 1.5"
- 70W panel dimensions: 32.35" x 26.22" x 1.5"
- 90W panel dimensions: 40.25" x 26.25" x 1.5"
- 100W panel dimensions: 47.87" x 26.43" x 1.5"
- 140W panel dimensions: 44" x 38.7" x 1.5" (or may be supplied as two 70W panels).
- 240W panel dimensions: 64.38" x 39" 1.5"
- 280W panel consists of two 140W panels.



Lowest Price Guarantee 20 Year Panel Warranty 5 Year Product Warranty Lifetime Tech Support Worldwide Shipping

5611 Halifax Avenue • Fort Myers • FL • 33912 • USA • Phone: 239-461-5522 • Fax: 239-337-7887
MONDAY - FRIDAY 8.00AM - 5.00PM (US EASTERN TIME)

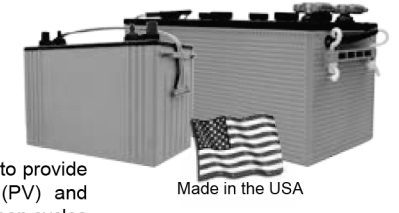
www.solarilluminations.com • sales@solarilluminations.com

SUBJECT TO OUR TERMS & CONDITIONS AND RETURNS POLICY

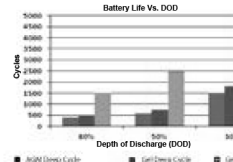
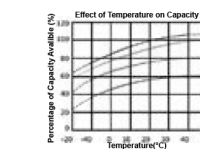
0402019M12



FL10 Solar Sign Light System



"EastPenn batteries are engineered and tested to provide reliable, long-lasting power for Photovoltaic (PV) and renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable."



Battery

- Manufactured by: East Penn Manufacturing Co. Inc.
- 100% made in the USA.
- System supplied standard with two 12 Volt batteries. Batteries are wired in series to make a 24 Volt system.
- Available battery capacities range from 12Ah to 245Ah (per battery).
- Choice of two battery types: Absorbed Glass Mat (AGM) or Gel Cell.
- Please consult our engineers for specific battery capacity requirements.
- Classified as Non-spillable (defined by DOT, ICAO and IATA), NonHAZMAT, and valve regulate.
- Conforms to ISO9001, ISO/TS 16949, and ISO14001 standards.
- Typical battery life is approximately 5 to 7 years, subject to environmental factors.

VRLA Technology

VRLA batteries are maintenance free for life. VRLA stands for Valve Regulated Lead Acid, which means the batteries are sealed. Gas will only escape through the safety valves in the case of overcharging or cell failure.

AGM and Gel batteries have exceptional discharge recovery, even after deep or prolonged discharge. However, it should be noted that repetitive deep discharge and prolonged deep discharge have a negative influence on the service life of all lead acid batteries.

Gel batteries in general have a longer service life and better cycle capacity than AGM batteries.

Please Note: The rated capacity of our AGM or gel deep cycle batteries refer to 20 hour discharge rate (i.e. 0.05CA). Most products actually operate near, or at a 100 hour discharge rate (i.e. 0.01CA) and thus actual available battery capacity is slightly higher than the advertised rate.

The total available battery power is measured in watt-hour (Wh) or V*Ah. When comparing our total battery capacity with competitor's, please note that the battery capacity from a 12V system is not interchangeable with the battery capacity of a 24V system. However, the total battery power (i.e. watt-hours) is always comparable provided the correct system voltage is considered during calculation.

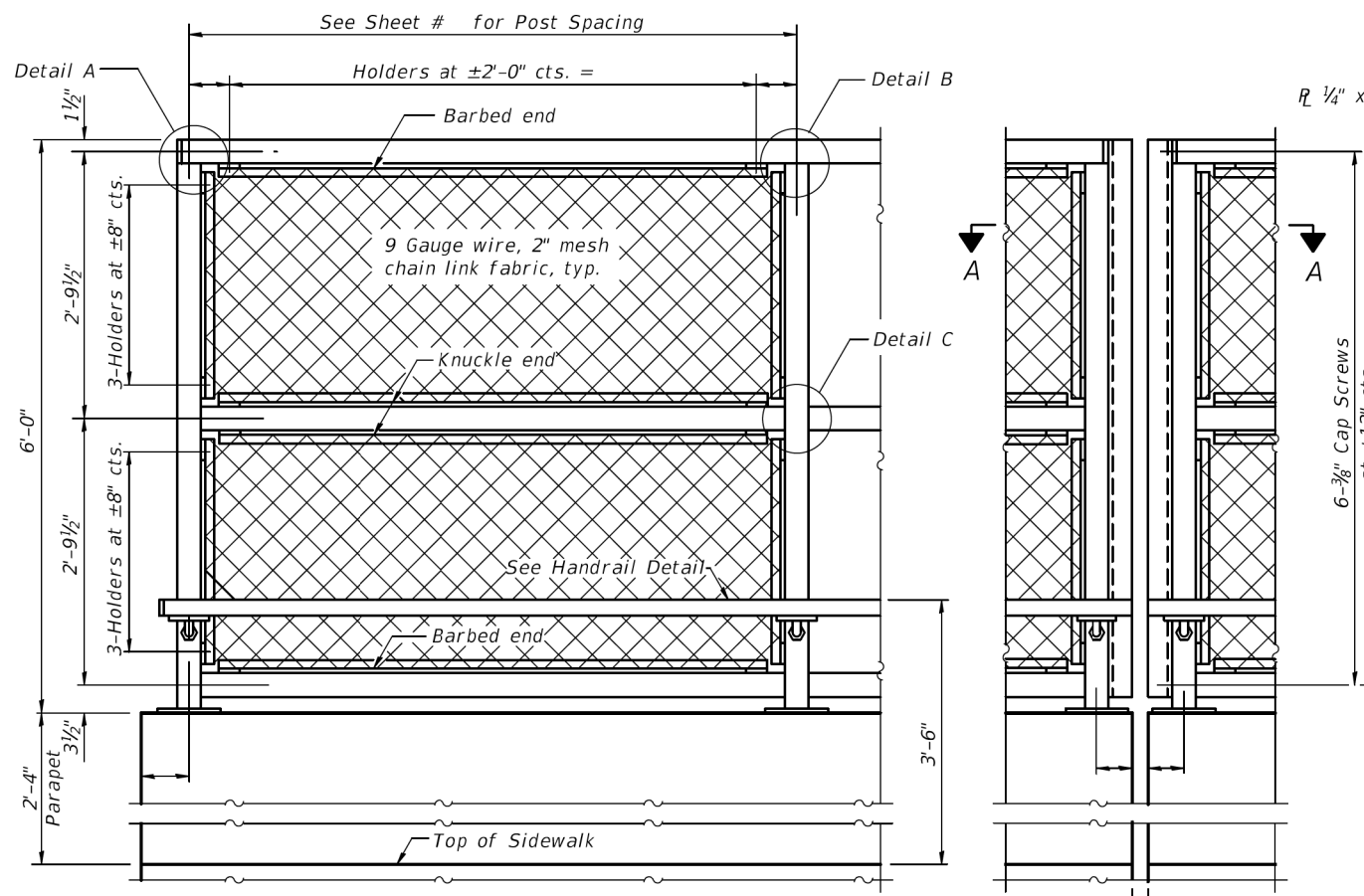
Lowest Price Guarantee 20 Year Panel Warranty 5 Year Product Warranty Lifetime Tech Support Worldwide Shipping

5611 Halifax Avenue • Fort Myers • FL • 33912 • USA • Phone: 239-461-5522 • Fax: 239-337-7887
MONDAY - FRIDAY 8.00AM - 5.00PM (US EASTERN TIME)

www.solarilluminations.com • sales@solarilluminations.com

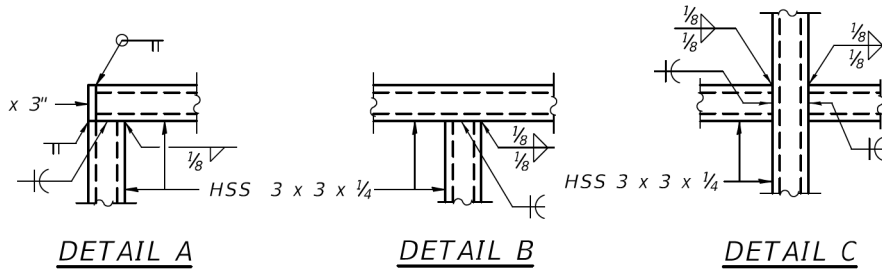
SUBJECT TO OUR TERMS & CONDITIONS AND RETURNS POLICY

0402019M12

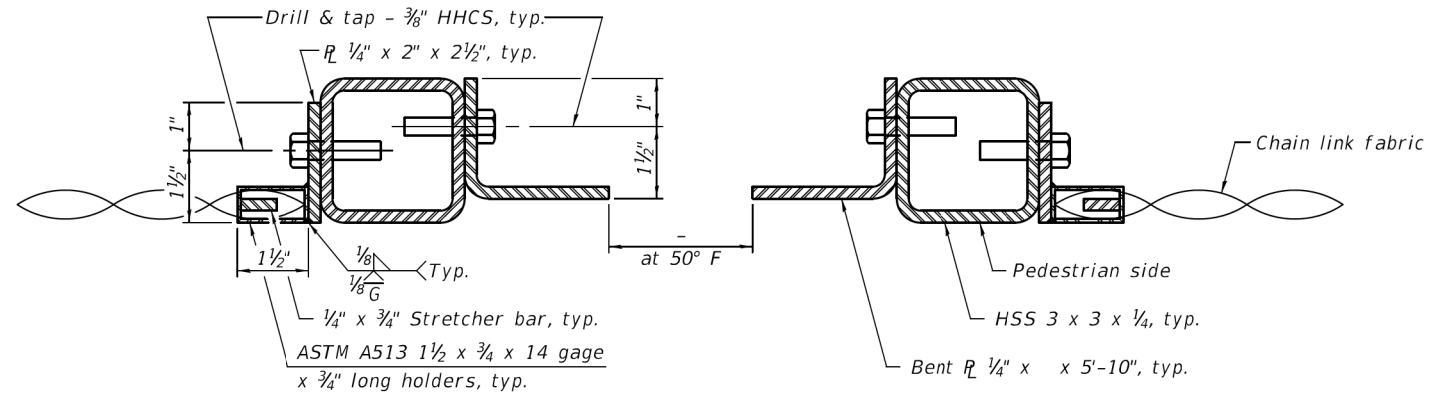


ELEVATION
(Inside Face)

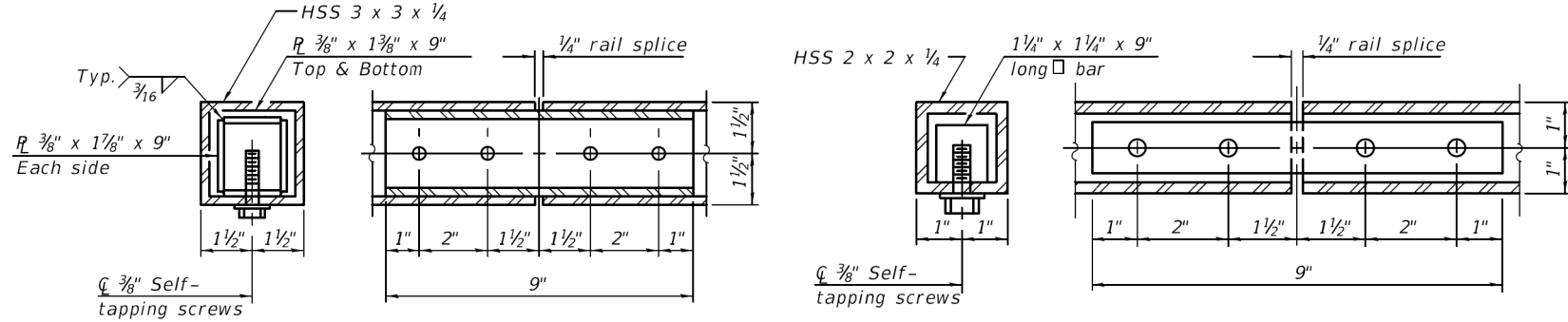
ELEVATION
(At Expansion Joint)



NOTE:
ALL STEEL RAIL ELEMENTS SHALL BE GALVANIZED ACCORDING TO
ARTICLE 509.05 OF THE STANDARD SPECIFICATIONS.

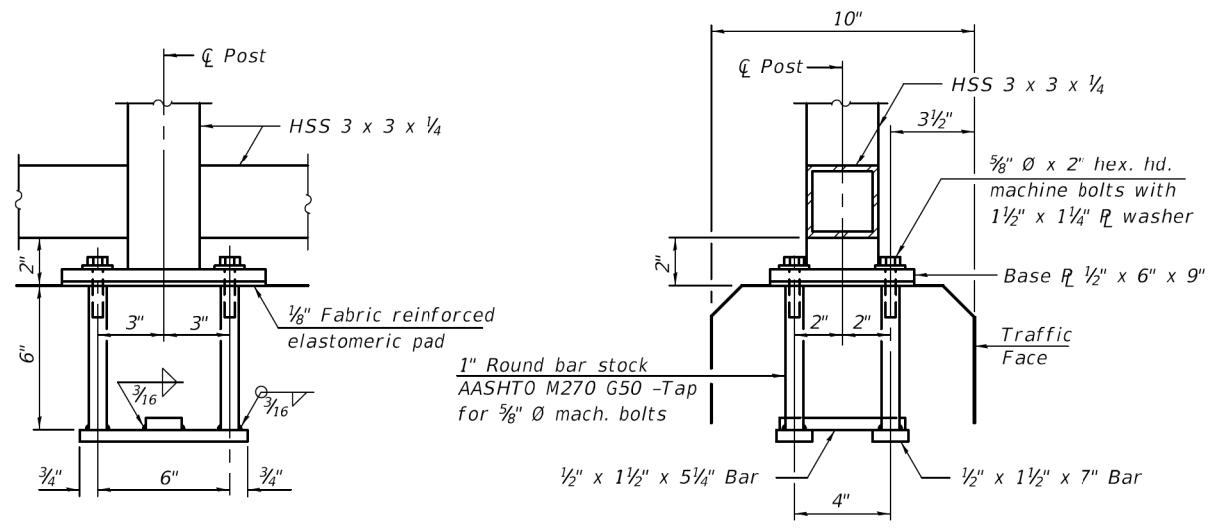


SECTION A-A



RAIL SPLICE

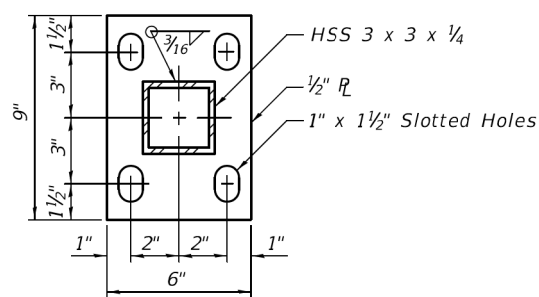
HANDRAIL SPLICE



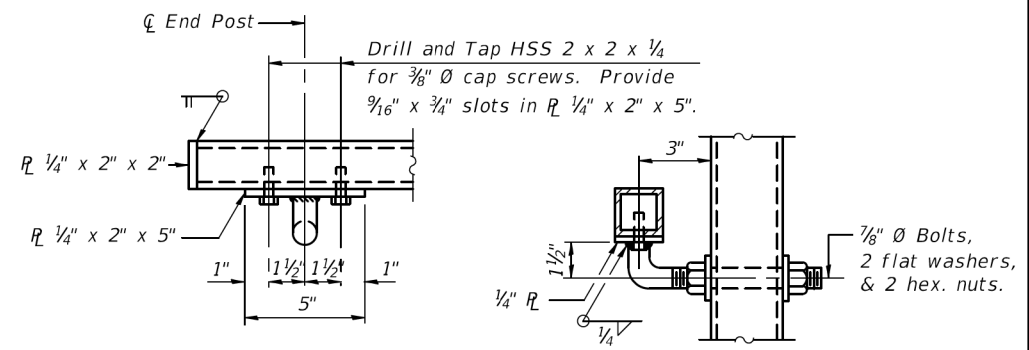
ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

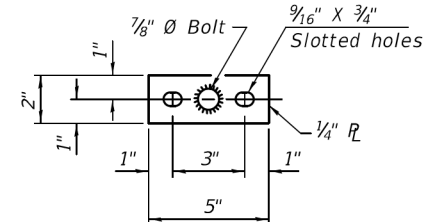
Note:
CVN testing may be omitted for the railing.



BASE R



HANDRAIL DETAIL



BASE R
(Handrail)

R-28

8-11-2017 (10'-0" Maximum Post Spacing)

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

| | | | |
|----------|-------------|---------|---|
| DESIGNED | - AS | REVISED | - |
| DRAWN | - RR | REVISED | - |
| CHECKED | - EN | REVISED | - |
| DATE | - 6/10/2019 | REVISED | - |

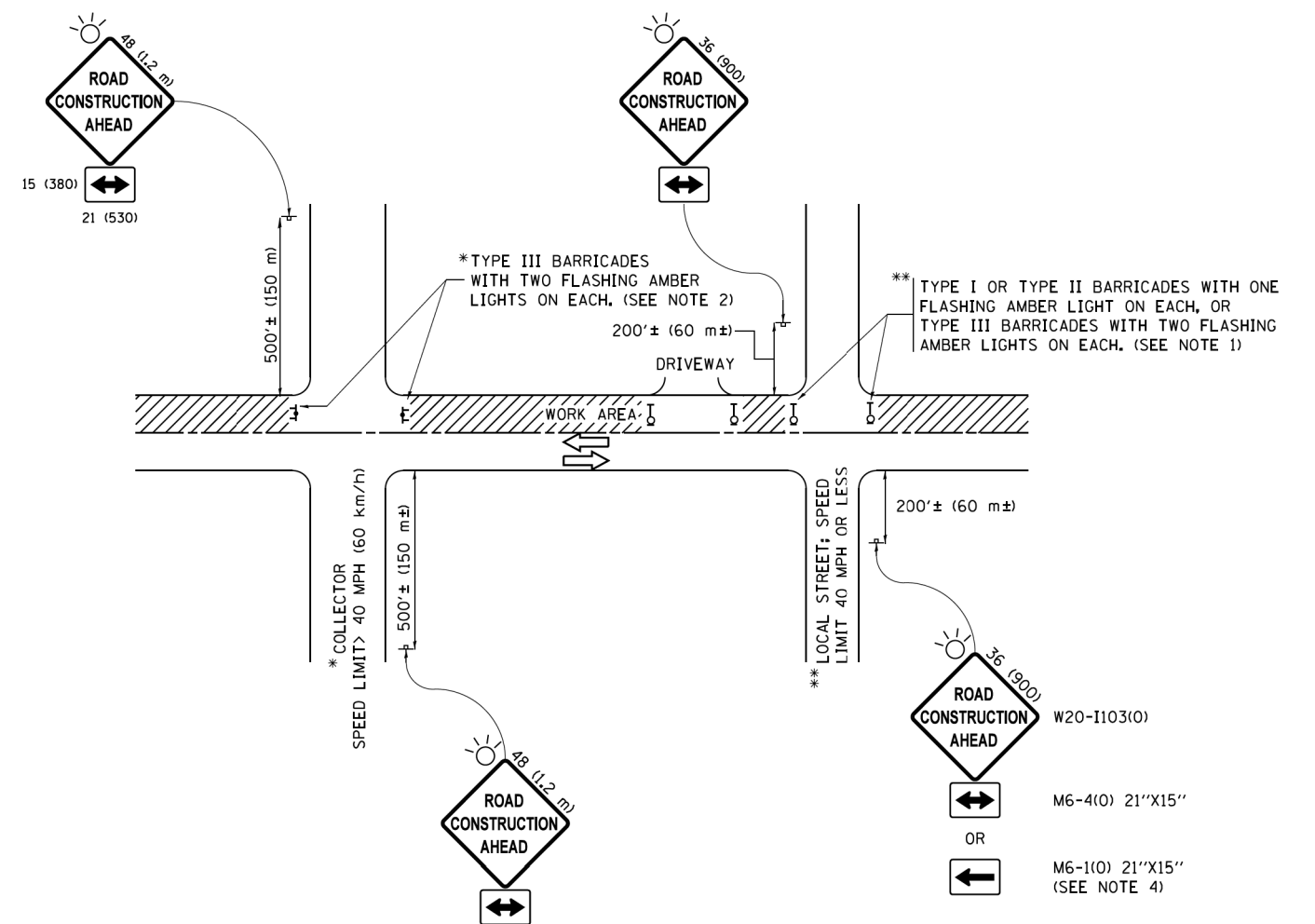
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, PARAPET MOUNTED DETAIL

SCALE: NTS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 27 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

| | | | |
|--|-----------------------------|-------------------|---------------------------------|
| FILE NAME = | USER NAME = footemj | DESIGNED - L.H.A. | REVISED - A. HOUSEH 10-15-96 |
| pw1\11084E81D\INTEG\illinois.gov\FWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\CADData\CADsheets\tc10.dgn | | DRAWN | REVISED - T. RAMMACHER 01-06-00 |
| Default | PLOT SCALE = 50,000' / 1" = | CHECKED - | REVISED - A. SCHUETZE 07-01-13 |
| | PLOT DATE = 9/15/2016 | DATE - 06-89 | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|---------------------------|-----------|
| 345 | 14-00245-05-LS | COOK | 37 | 28 |
| TC-10 | | | CONTRACT NO. 61E69 | |
| ILLINOIS FED. AID PROJECT | | | | |

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

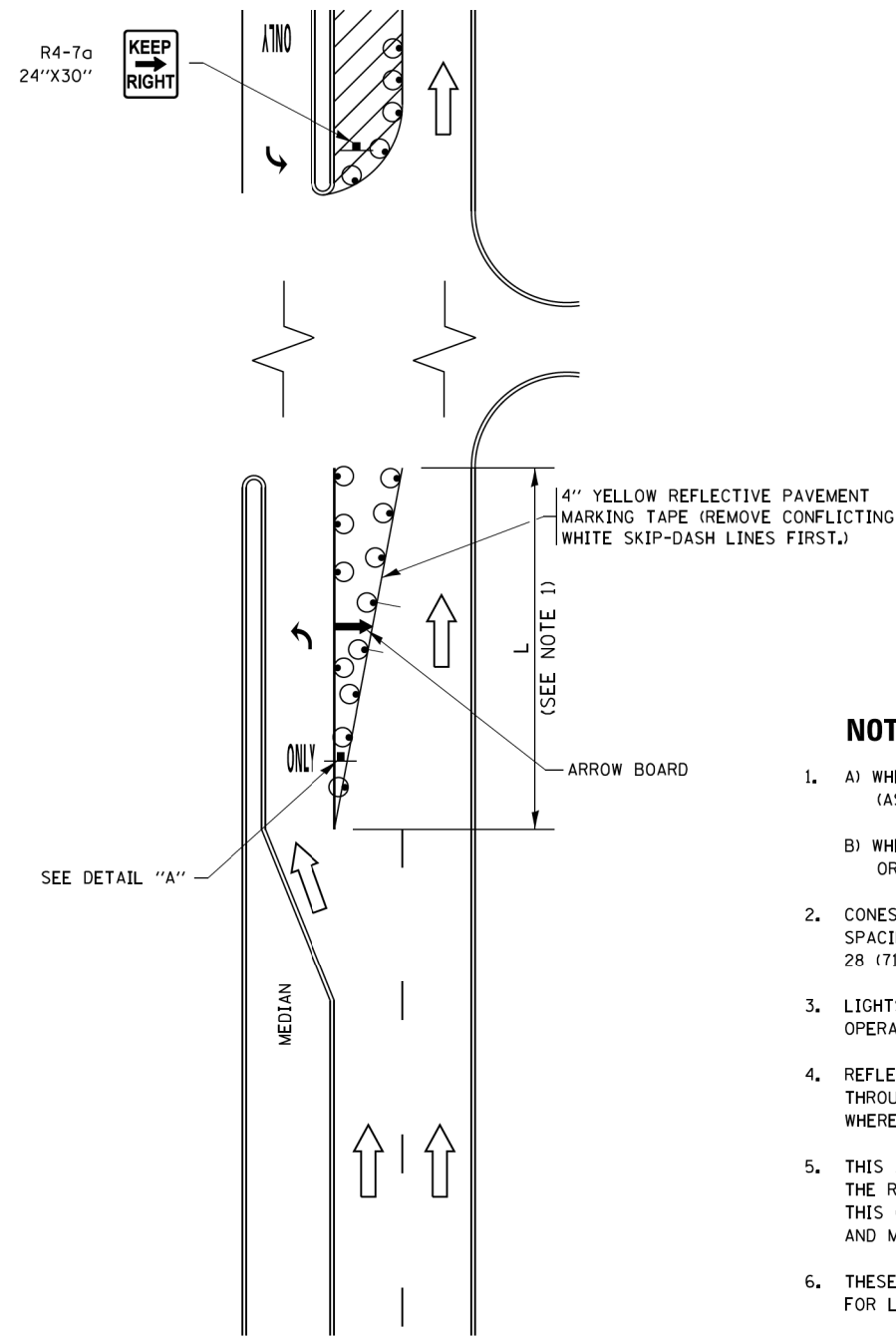


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

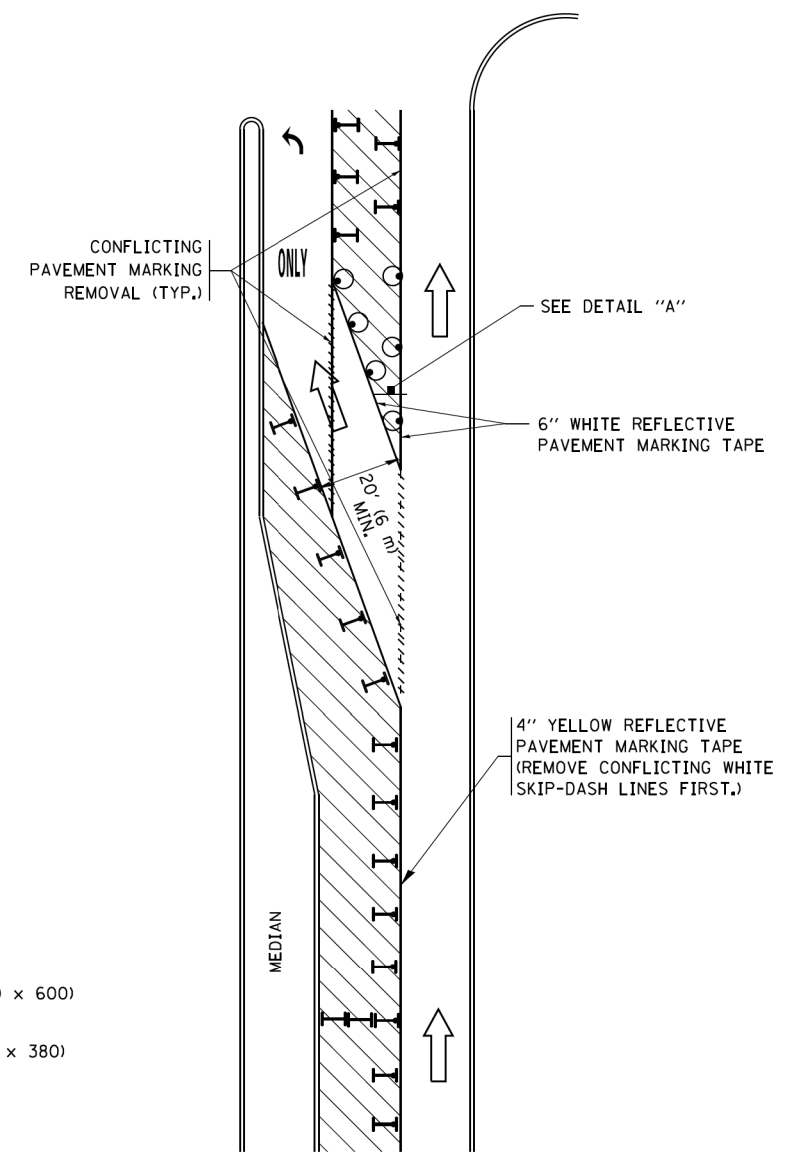


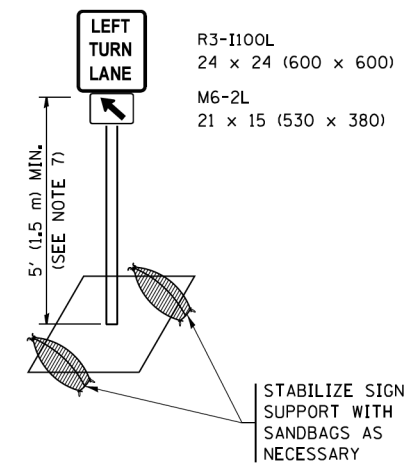
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

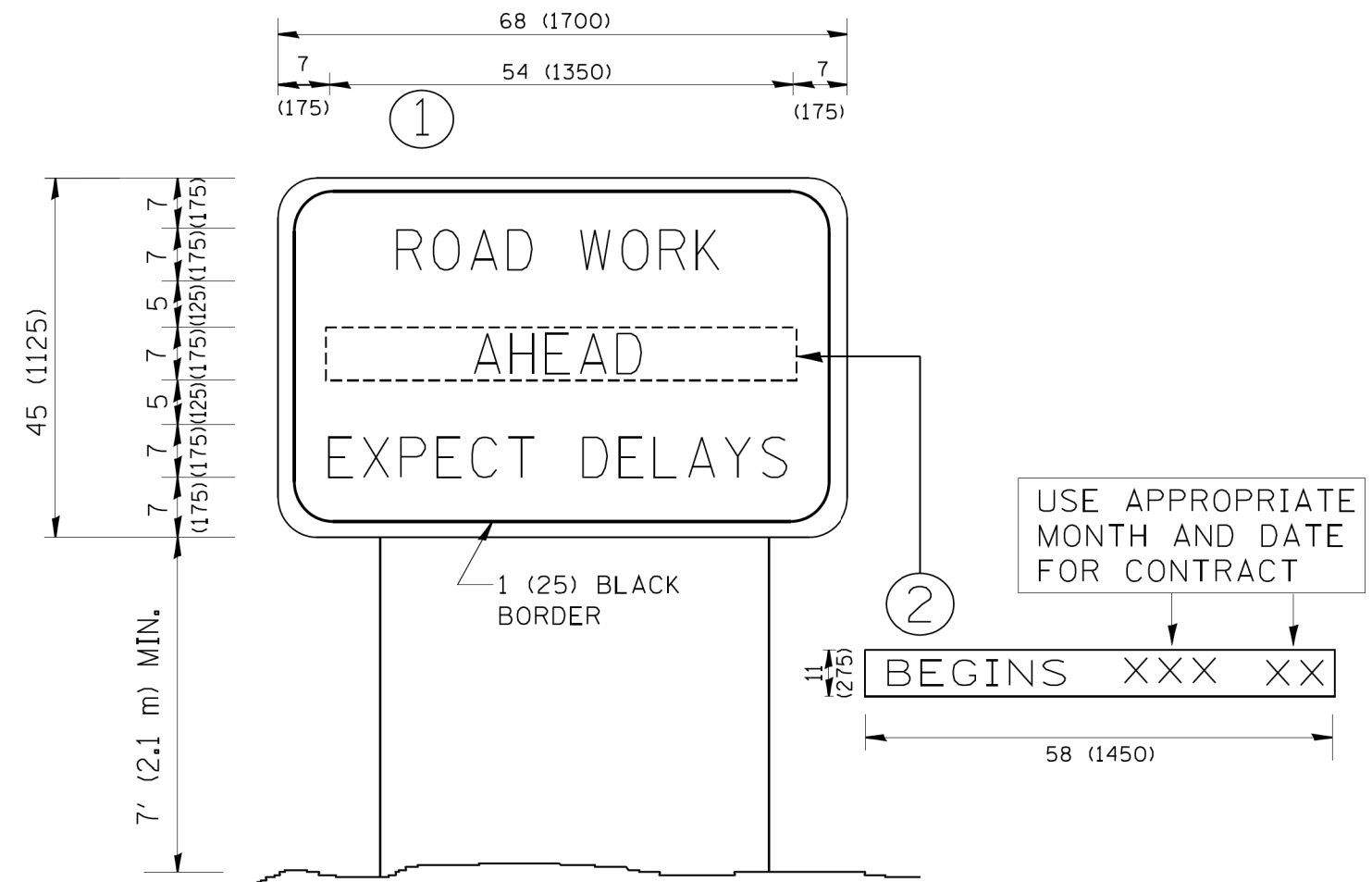
1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PRE REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

| | | | | | | | | | | | | | | | |
|-------------|---------------------|---------------------------------|--------------------------------|---|--|---------|------|--------|-------------|---------|---------------------------|----------------|-----------|--------------------|----|
| FILE NAME = | USER NAME = footemj | REVISED - T. RAMMACHER 09-08-94 | REVISED - R. BORO 09-14-09 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) | | | | F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| Default | Default | REVISED - A. HOUSEH 10-07-95 | REVISED - A. SCHUETZE 07-01-13 | | SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | 345 | 14-00245-05-LS | COOK | 37 | 29 |
| | | REVISED - A. HOUSEH 10-12-96 | REVISED - A. SCHUETZE 09-15-16 | | | | | | | | | TC-14 | | CONTRACT NO. 61E69 | |
| | | REVISED - T. RAMMACHER 01-06-00 | REVISED - | | | | | | | | ILLINOIS FED. AID PROJECT | | | | |



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

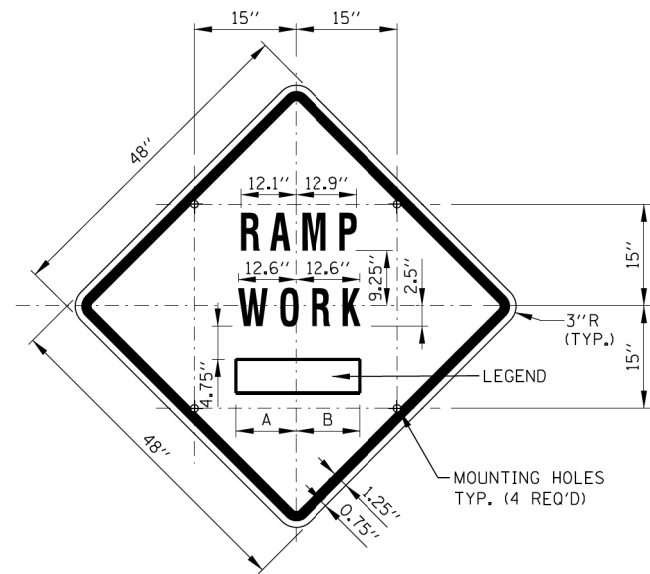
| | | | |
|--|----------------------------|------------|---------------------------------|
| FILE NAME = W:\diststd\22x34\tc22.dgn | USER NAME = geglano | DESIGNED - | REVISED - R. MIRS 09-15-97 |
| | | DRAWN - | REVISED - R. MIRS 12-11-97 |
| | PLOT SCALE = 50.000' / IN. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| | PLOT DATE = 1/4/2008 | DATE - | REVISED - C. JUCIUS 01-31-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

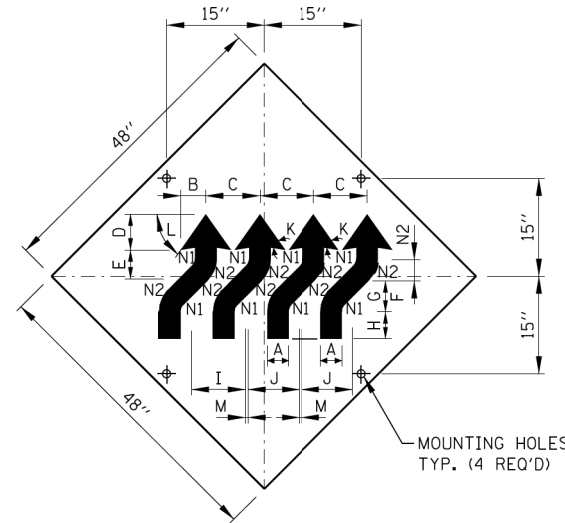
| F.A.L. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------------------|--------------|-----------|
| 345 | 14-00245-05-LS | COOK | 37 | 30 |
| TC-22 | | CONTRACT NO. 61E69 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



SIGN TS-2 (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND SYMBOL - BLACK
 SIZE: 48"x48"
 LETTERING: 7" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN

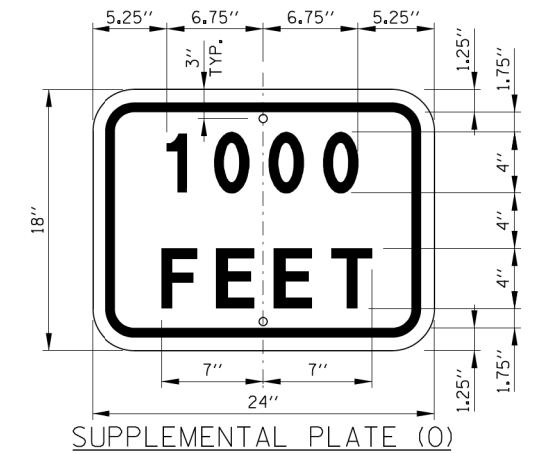
| SIGN NO. | LEGEND | A | B |
|----------|----------|-----------|-----------|
| TS-2A | AHEAD | 15.50" | 15.50" |
| TS-2B | 500 FT | 14.25" | 15.13" |
| TS-2C | 1000 FT | 14.88" L2 | 15.75" L2 |
| TS-2D | 1500 FT | 14.88" L2 | 15.75" L2 |
| TS-2E | 1/2 MILE | 15.75" L3 | 15.75" L3 |
| TS-2F | 1 MILE | 13.06" | 13.06" |



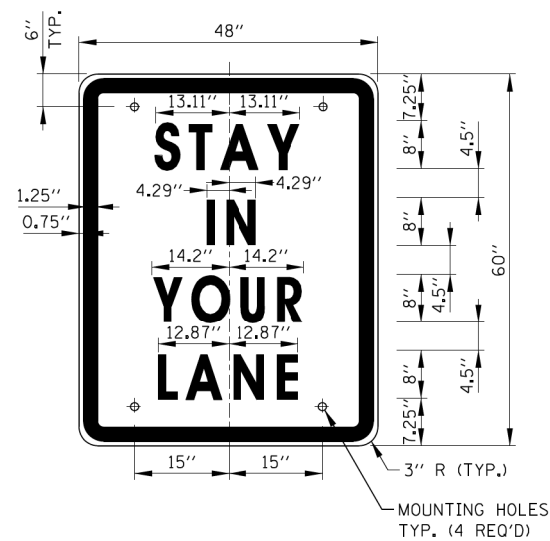
SIGN W1-4dR (O)

COLOR: BACKGROUND-FLUORESCENT ORANGE (O)
 TYPE A REFLECTIVE
 SHEETING PER STANDARD SPECIFICATIONS (*A)
 BORDER AND LETTERS-BLACK
 SIZE: 48"x48"
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN.

| | |
|----|---------|
| A | 4 1/2" |
| B | 5 3/4" |
| C | 12 1/2" |
| D | 7 3/4" |
| E | 6 1/2" |
| F | 4 1/2" |
| G | 6 1/2" |
| H | 6" |
| I | 12 3/4" |
| J | 12" |
| K | 45° |
| L | 55° |
| M | 3/4" |
| N1 | 2" |
| N2 | 6 1/2" |

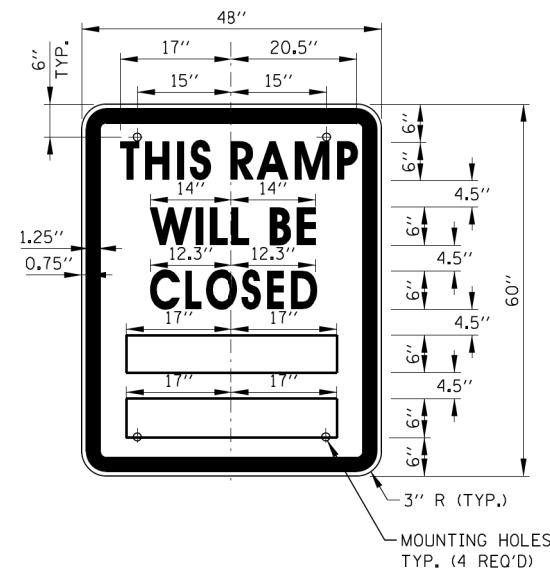


COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND LETTERS - BLACK
 SIZE: 24"x18"
 LETTERING: 4" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 2 HOLES SPACED AS SHOWN



SIGN TS-3

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: LEGEND - 8" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN

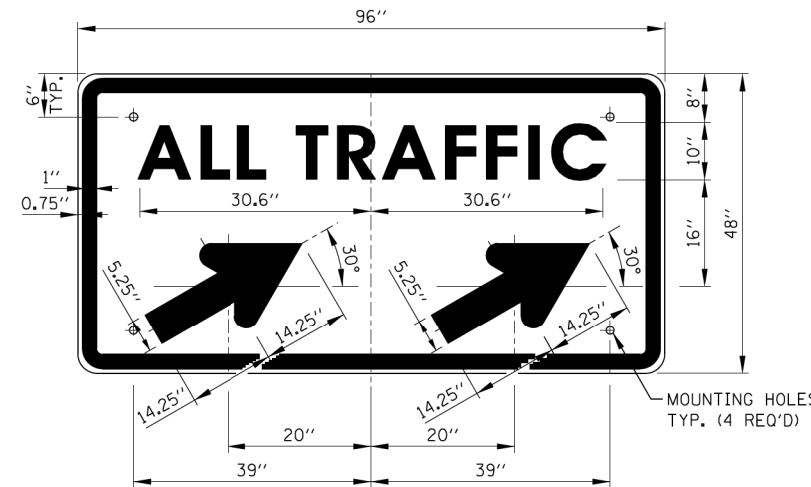


SIGN TS-4

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: LEGEND - 6" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN

RAMP CLOSURE ADVANCE INFORMATION SIGN

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.



SIGN TS-5a & TS-5b

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
 BORDER AND LETTERS - BLACK
 ARROW - BLACK
 SIZE: 96"x48"
 LETTERING: 10" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN
 NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE LEGEND "▲" FOR "▲" FOR SIGN TS-5b

NOTES:

- ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
- SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.
 (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
 (*A) - REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
- DIMENSIONS INDICATED THUS L ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW:
 L1 SPACING REDUCED BY 25%
 L2 SPACING REDUCED BY 40%
 L3 SPACING REDUCED BY 50%

SHEET 1 OF 2

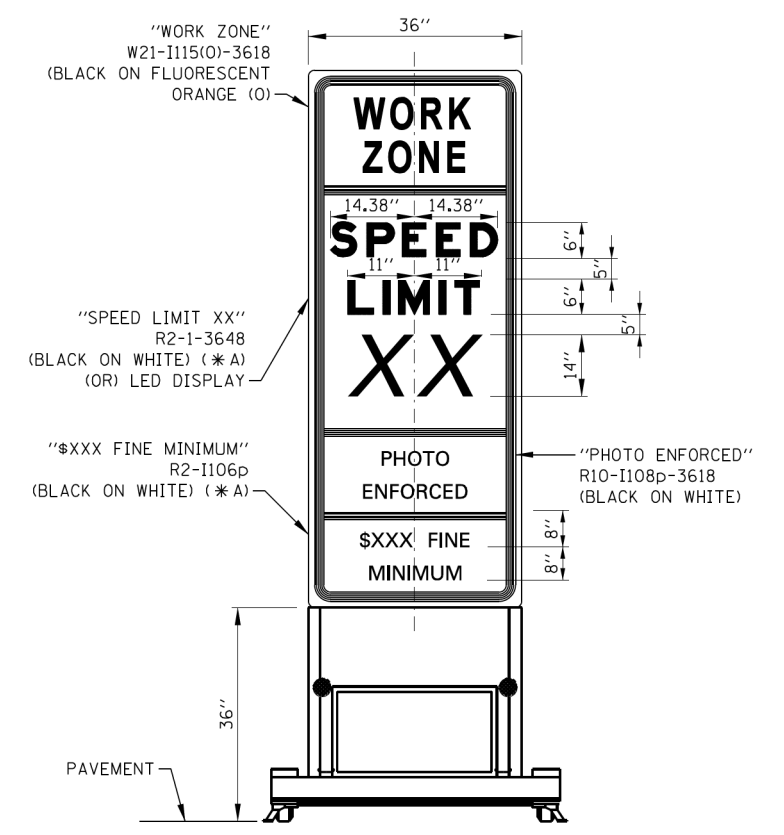
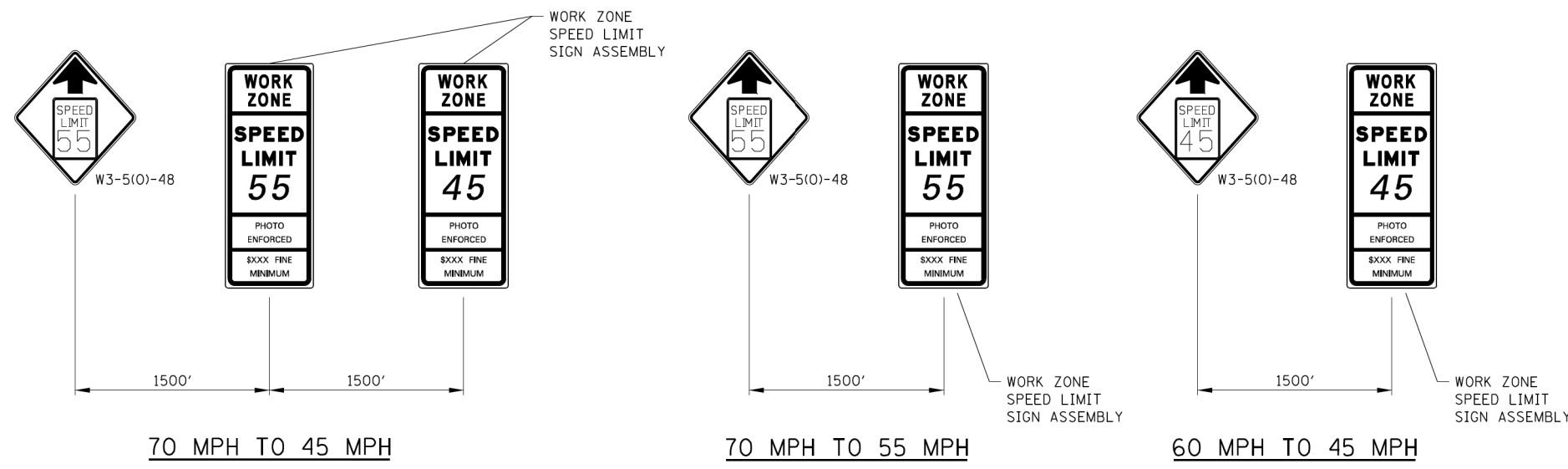
APPROVED: *Paul Kovacs* DATE: 5-1-2009
 CHIEF ENGINEERING OFFICER

| DATE | REVISIONS |
|-----------|---|
| 11-01-12 | DELETED SIGN TS-1 |
| 03-31-14 | REVISED FINE SIGN NUMBER AND ADDED LED SPEED LIMIT DISPLAY |
| 3-11-2015 | REVISED NOTES |
| 3-31-2017 | REVISED END WZSL SIGN COLOR |
| 3-01-2019 | REMOVED STANDARD IDOT SIGNS, REVISED WZSL ASSEMBLY, ADDED WZSL TRANSITION |

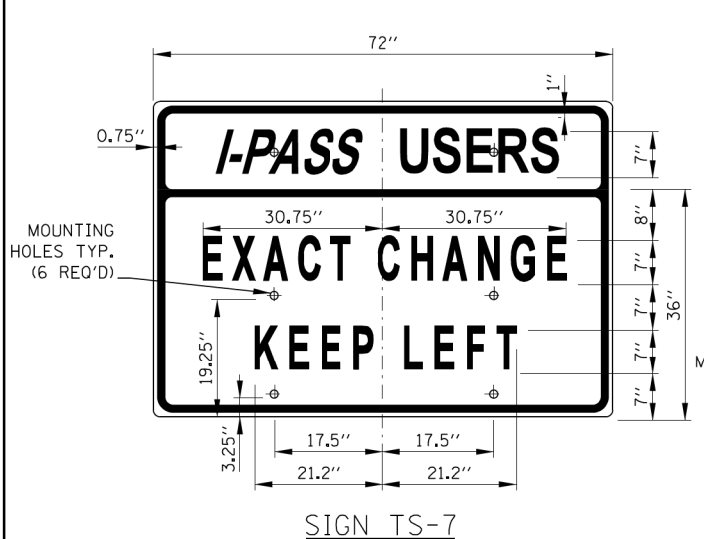
Illinois Tollway

CONSTRUCTION SIGNS

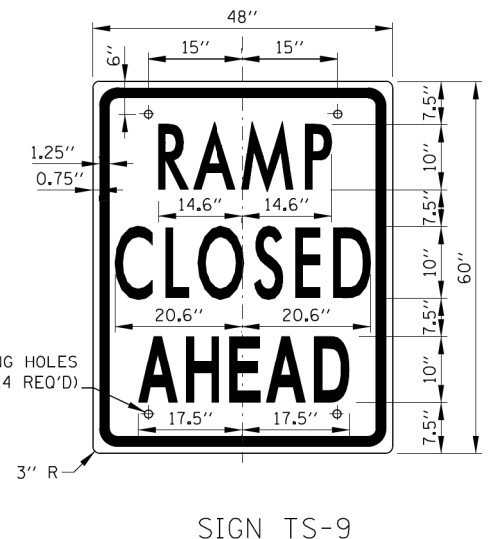
STANDARD E1-07



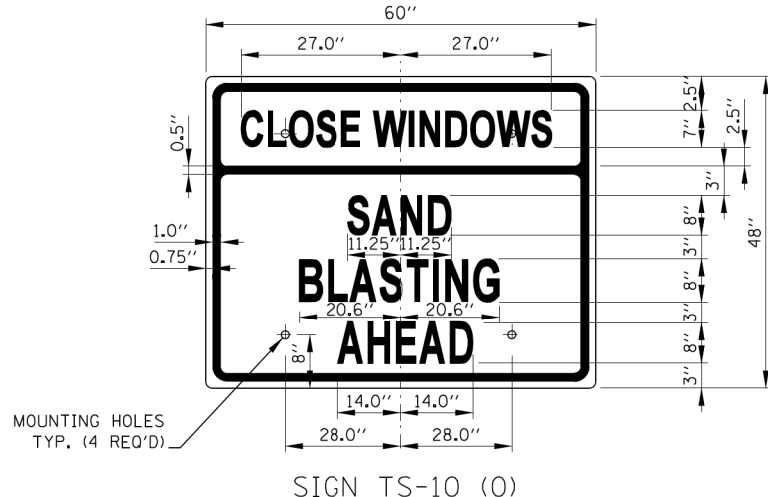
WORK ZONE SPEED LIMIT TRANSITION SIGNAGE



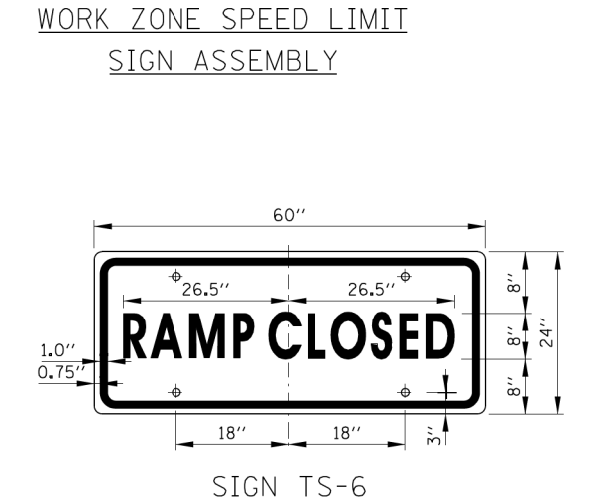
SIGN TS-7
 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 72"x36"
 LETTERING: 7" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-9
 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: 10" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-10 (O)
 COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND LETTERS - BLACK
 SIZE: 60"x48"
 LETTERING: 8" FEDERAL SERIES C, 7" FEDERAL SERIES B
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-6
 COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 60"x24"
 LETTERING: 8" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



CONSTRUCTION SIGNS

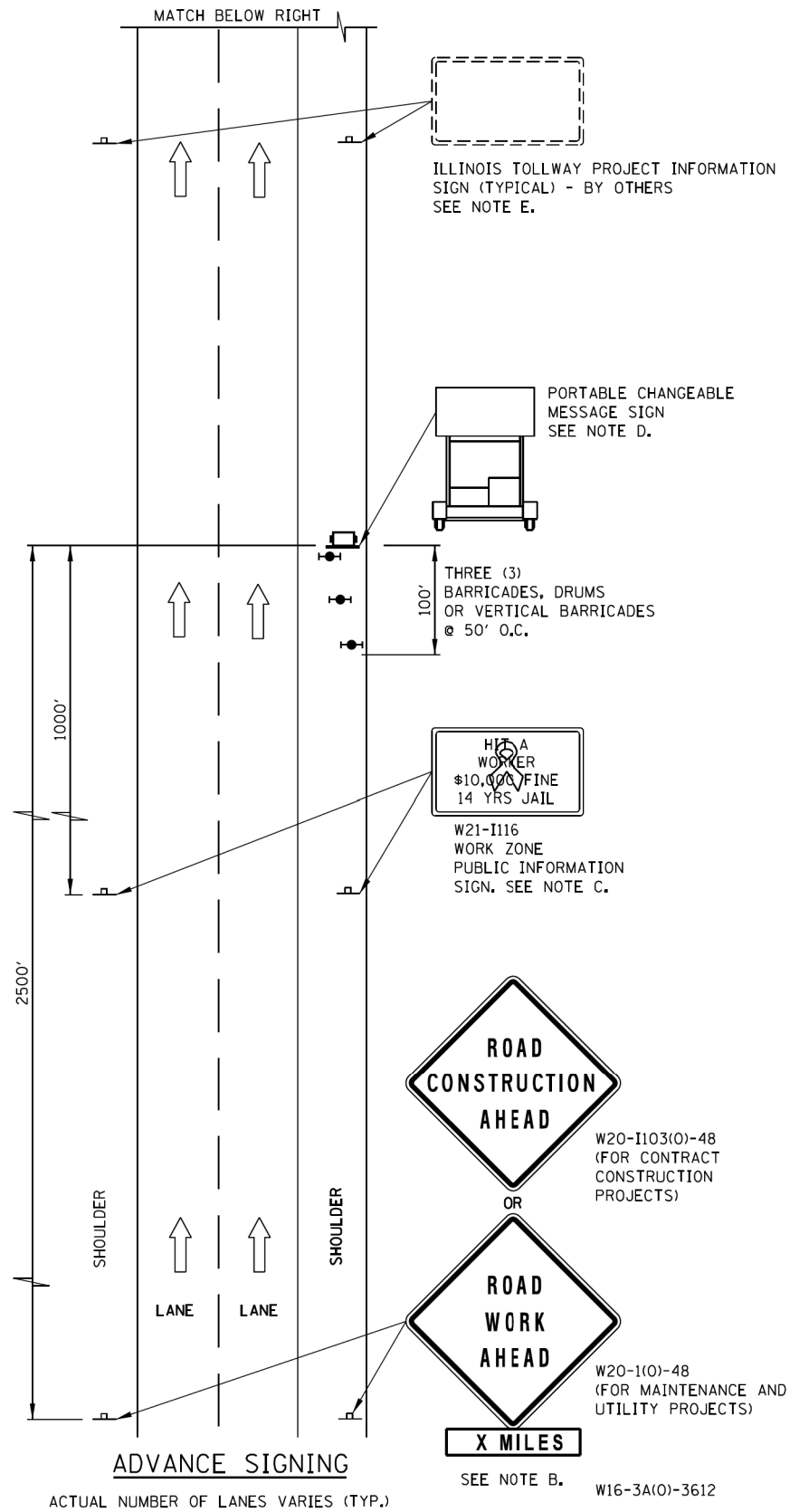
STANDARD E1-07

Paul Kovacs
 APPROVED, CHIEF ENGINEERING OFFICER DATE 5-1-2009

NOTE:
 SEE SHEET 1 OF THIS SERIES FOR NOTES.

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|-------------|--------------|--------------------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 32 |
| | | | | CONTRACT NO. 61E69 |



ADVANCE SIGNING NOTES:

- A. THE ADVANCE SIGNING SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE "ROAD WORK AHEAD" OR "ROAD CONSTRUCTION AHEAD" SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.
- B. THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3a SUPPLEMENTAL PLATE) OR ROAD WORK AHEAD SIGN (W20-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.
- C. THE WORK ZONE PUBLIC INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
- D. THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE(S) CLOSED" / "X MILES AHEAD", "LEFT LANE(S) CLOSED" / "X MILES AHEAD", "LANE(S) SHIFT" / "X MILES AHEAD", "ALL LANES OPEN". THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.
- E. THE ILLINOIS TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BEYOND THE PORTABLE CHANGEABLE MESSAGE SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE ILLINOIS TOLLWAY REGARDING THE LOCATION OF THESE SIGNS AND NOTIFY THE ILLINOIS TOLLWAY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

LEGEND

- ➔ ARROW BOARD
- ▨ WORK AREA
- ┆ SIGN
- ⬆️ DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- ⬆️ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- ⚠️ WORKER
- ✕ LANE CLOSED
- 🚧 CHECK BARRICADE
- 🚚 TRUCK MOUNTED ATTENUATOR

SHEET 1 OF 3



LANE CLOSURE DETAILS

STANDARD E2-08

| DATE | REVISIONS |
|-----------|--|
| 3-31-2016 | ADDED LANE CLOSURE WITH BARRIER AND ADDED SEQUENTIAL FLASHING WARNING LIGHT. |
| 3-31-2017 | ADDED TAPER RATE TABLE |
| 3-01-2019 | RE-ARRANGED DETAILS, REVISED NOTE 17, ADDED NOTES 18 & 19, ADDED TMA |

Paul Kovacs
 APPROVED... CHIEF ENGINEERING OFFICER DATE 5-1-2009

DUPAGE COUNTY
 DIVISION OF TRANSPORTATION
 421 COUNTY FARM ROAD
 WHEATON, IL

DESIGNED - AS
 DRAWN - RR
 CHECKED - EN
 DATE - 6/10/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOLLWAY DETAILS

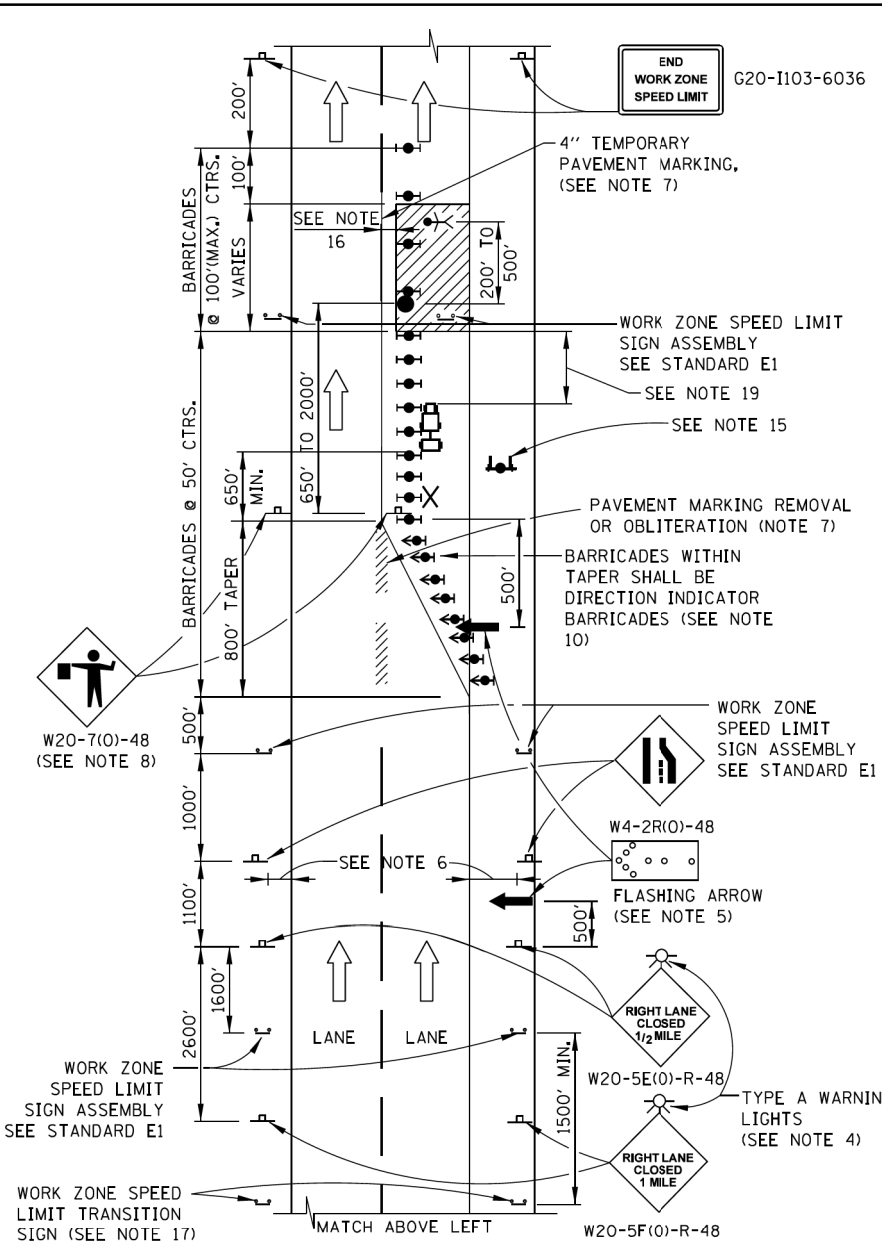
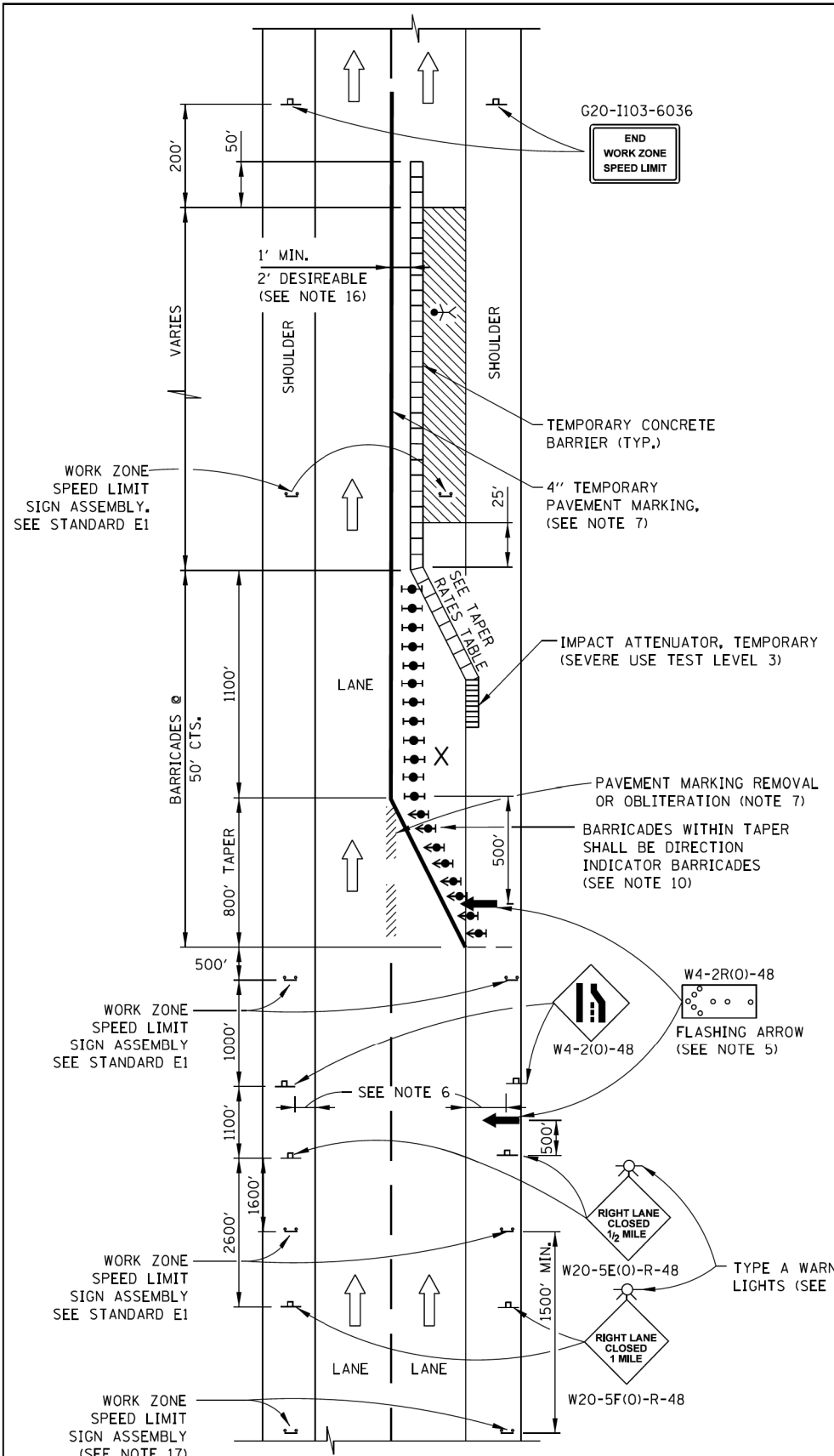
SCALE: NTS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 33 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT

LANE CLOSURE NOTES:

- IF CLOSURES ARE EXPECTED TO PRODUCE TRAFFIC BACKUPS EXTENDING BEYOND THE FIRST WARNING SIGN SHOWN ON THE DETAILS, ADDITIONAL UPSTREAM SIGNS SHALL BE PLACED SO THAT THE TRAFFIC CONTROL ZONE ENCOMPASSES THE ANTICIPATED BACKUP ZONE.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- THESE DETAILS ALSO APPLY TO OPPOSITE HAND LANE CLOSURES BY CHANGING SIGN LEGENDS AND ARROW DIRECTIONS TO INDICATE THE APPROPRIATE CLOSURE.
- FOR NIGHT TIME CLOSURES, ONE TYPE A WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE 1 MILE AND 1/2 MILE ADVANCE WARNING SIGNS. FOR DAYLIGHT-ONLY CLOSURES, THE LIGHTS MAY BE OMITTED.
- FOR ANY LANE CLOSURE, FLASHING ARROW BOARDS SHALL BE REQUIRED AND IN OPERATION AT ALL TIMES. THE FLASHING ARROW BOARD IN ADVANCE OF THE TAPER SHALL BE PROTECTED WITH THREE TYPE II BARRICADES AT 50' O.C.
- CONSTRUCTION SIGNS SHALL GENERALLY BE POST-MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHEREVER POSSIBLE. IN NO CASE SHALL SIGNS BE LOCATED TO PROVIDE LESS THAN 2' CLEARANCE BETWEEN EDGE OF SIGN AND ADJACENT TRAVEL LANE.
- PAVEMENT MARKING TAPE AND REMOVAL OR OBLITERATION OF EXISTING MARKINGS SHALL BE REQUIRED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THIS WORK SHALL BE MEASURED AND PAID FOR SEPARATELY.
- WHEN A FLAGGER IS NOT ON STATION, THE FLAGGER SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC. FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY, PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- WORK ZONE SPEED LIMIT SIGN ASSEMBLIES, SHALL BE PLACED ADJACENT TO THE OPEN TRAFFIC LANE(S). WORK ZONE SPEED SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- DIRECTION INDICATOR BARRICADES SHALL BE USED IN LANE TAPERS.
- FOR CLOSURES OTHER THAN SHORT TERM (SUNRISE TO ONE HOUR BEFORE SUNSET), THE MINIMUM HEIGHT OF THE SIGN FROM SHOULDER ELEVATION SHALL BE 7'-0".
- CONES MAY BE USED IN LIEU OF BARRICADES IN THE BUFFER AND WORK AREAS, WHEN THE CLOSURE IS FOR MAINTENANCE OPERATIONS.
- BARRICADES ARE TO BE LOCATED AT JOINT LINE WHEN WORK AREA EXTENDS UP TO JOINT UNLESS OTHERWISE SHOWN ON THE PLANS.
- SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR ADDITIONAL SIGNING IN THIS AREA.
- CHECK BARRICADES SHALL BE PLACED IN EACH CLOSED LANE AND SHOULDER AT 1000 FOOT CENTERS.
- A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
- SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH. THE SPEED LIMIT SHALL BE TRANSITIONED TO THE SPECIFIED WORK ZONE SPEED LIMIT 2600 FEET BEFORE THE FIRST W4-2 SIGN.
- WHEN NO POSITIVE PROTECTION IS PROVIDED AND WORKERS OR EQUIPMENT ENCROACH WITHIN 2'-0" OR LESS FROM THE EDGE OF TRAVELED WAY, THE LANE OPEN TO TRAFFIC SHALL BE TEMPORARILY CLOSED OR SHIFTED DURING WORK ACTIVITIES.
- IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED 100' TO 200' IN ADVANCE OF EACH WORK AREA. WHERE MULTIPLE CREWS ARE PRESENT, A TMA SHALL BE PROVIDED AT EACH WORK AREA.



ONE-LANE CLOSURE WITH BARRICADE

TAPER RATES

| WORK ZONE SPEED (mph) | SHY LINE (ft.) | BARRIER INSIDE SHY LINE | BARRIER AT OR BEYOND SHY LINE |
|-----------------------|----------------|-------------------------|-------------------------------|
| 65 | 8.5 | 28:1 | 19:1 |
| 60 | 8 | 26:1 | 18:1 |
| 55 | 7 | 24:1 | 16:1 |
| 50 | 6.5 | 21:1 | 14:1 |
| 45 | 6 | 18:1 | 12:1 |
| 40 | 5 | 16:1 | 10:1 |
| 35 | 4.5 | 15:1 | 9:1 |
| 30 | 4 | 13:1 | 8:1 |

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORKER
- LANE CLOSED
- CHECK BARRICADE
- TRUCK MOUNTED ATTENUATOR

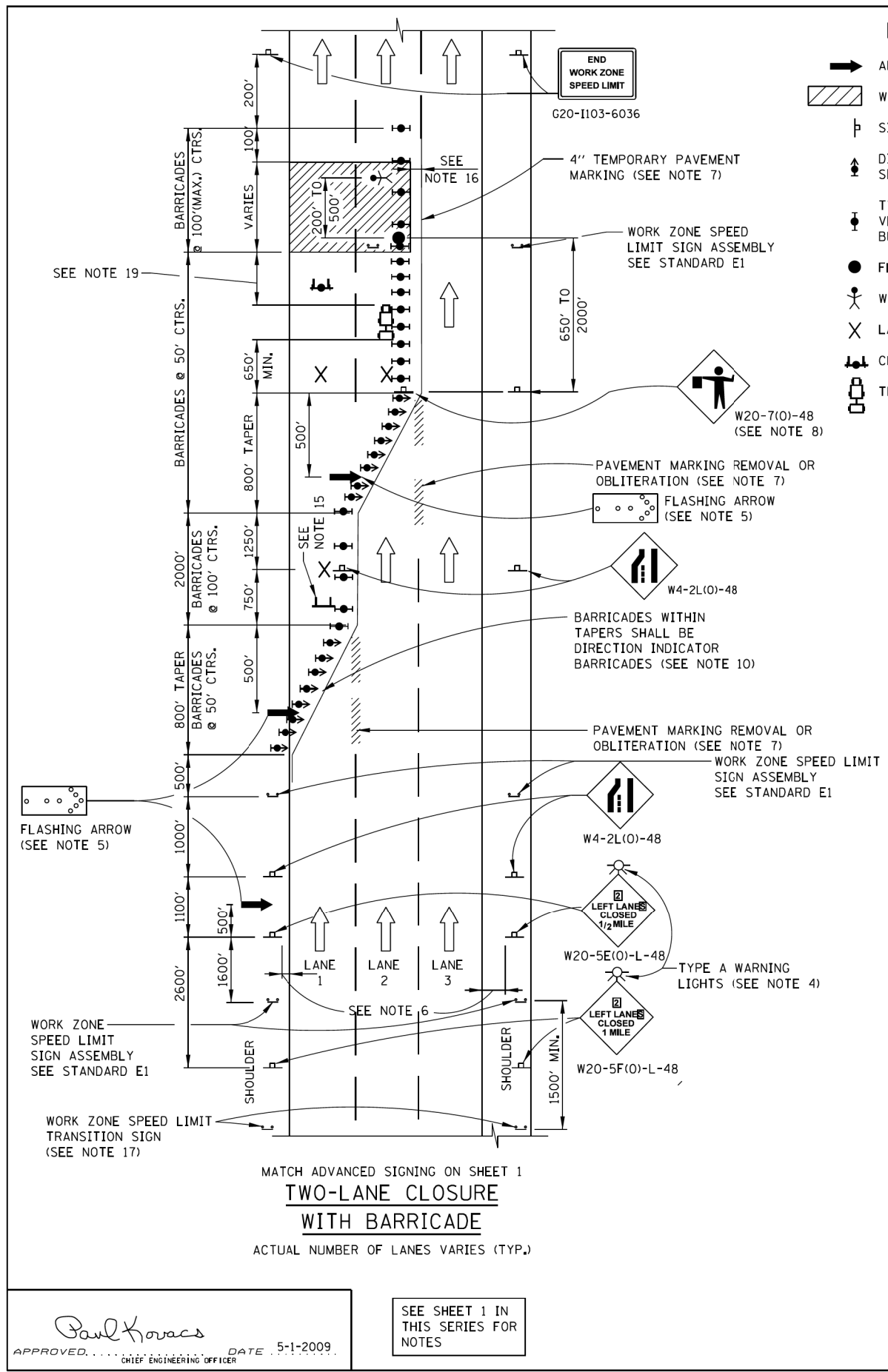
APPROVED: *Paul Kovacs* DATE: 5-1-2009
CHIEF ENGINEERING OFFICER

ONE-LANE CLOSURE WITH BARRIER

Illinois Tollway

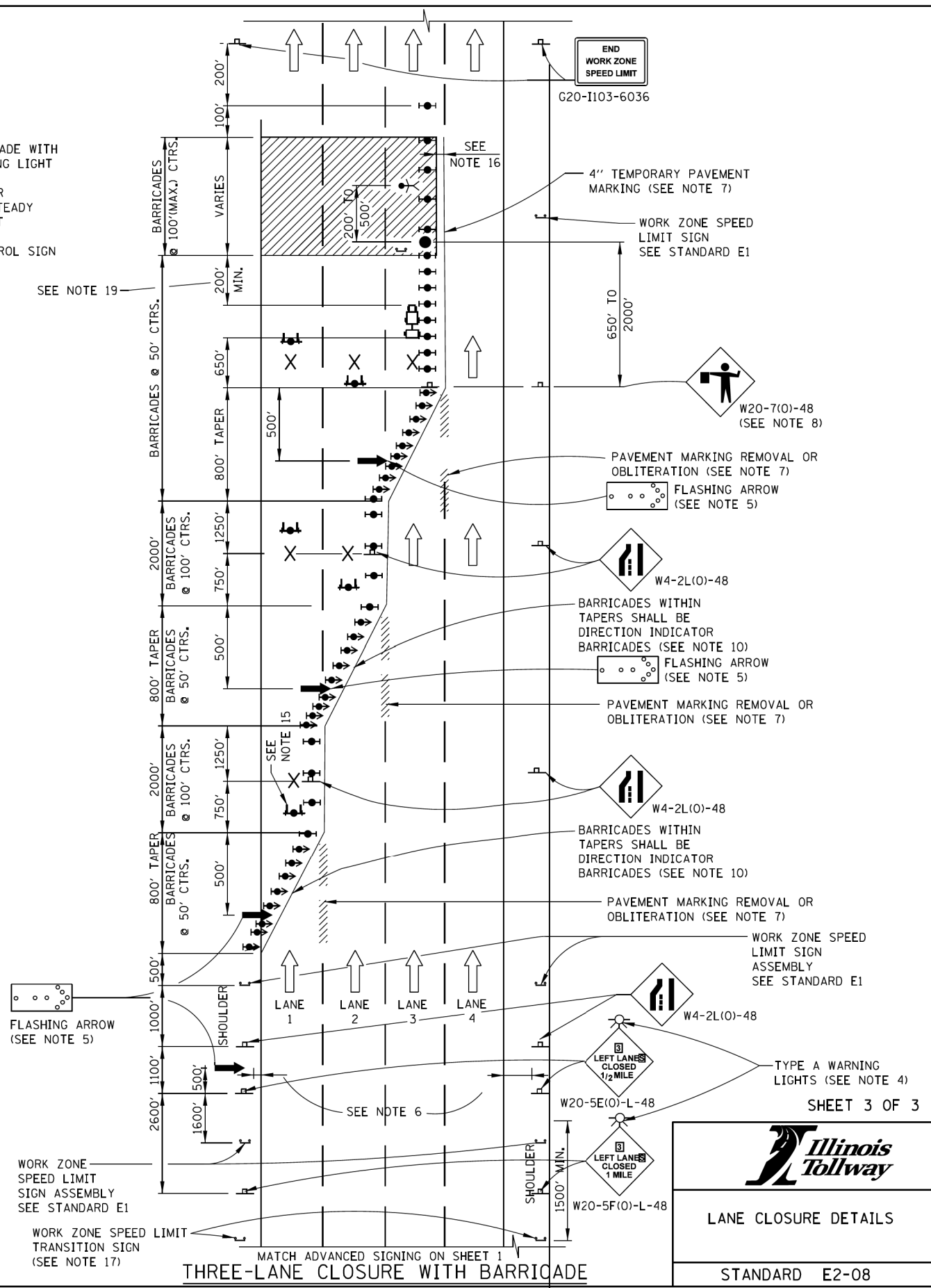
LANE CLOSURE DETAILS

STANDARD E2-08



LEGEND

- ➔ ARROW BOARD
- ▨ WORK AREA
- ♣ SIGN
- ⬆ DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- ⬆ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- ♣ WORKER
- ✕ LANE CLOSED
- ⊠ CHECK BARRICADE
- 🚚 TRUCK MOUNTED ATTENUATOR



APPROVED... CHIEF ENGINEERING OFFICER
 DATE 5-1-2009

SEE SHEET 1 IN THIS SERIES FOR NOTES

SHEET 3 OF 3

LANE CLOSURE DETAILS

STANDARD E2-08

DUPAGE COUNTY
DIVISION OF TRANSPORTATION
421 COUNTY FARM ROAD
WHEATON, IL

| | | | |
|------------|-----------|-----------|--|
| DESIGNED - | AS | REVISED - | |
| DRAWN - | RR | REVISED - | |
| CHECKED - | EN | REVISED - | |
| DATE - | 6/10/2019 | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TOLLWAY DETAILS

SCALE: NTS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|-------------|--------------|-----------|
| 345A | 14-00245-05-L5 | COOK/DUPAGE | 37 | 35 |
| CONTRACT NO. 61E69 | | | | |

ILLINOIS FED. AID PROJECT

GENERAL NOTES:

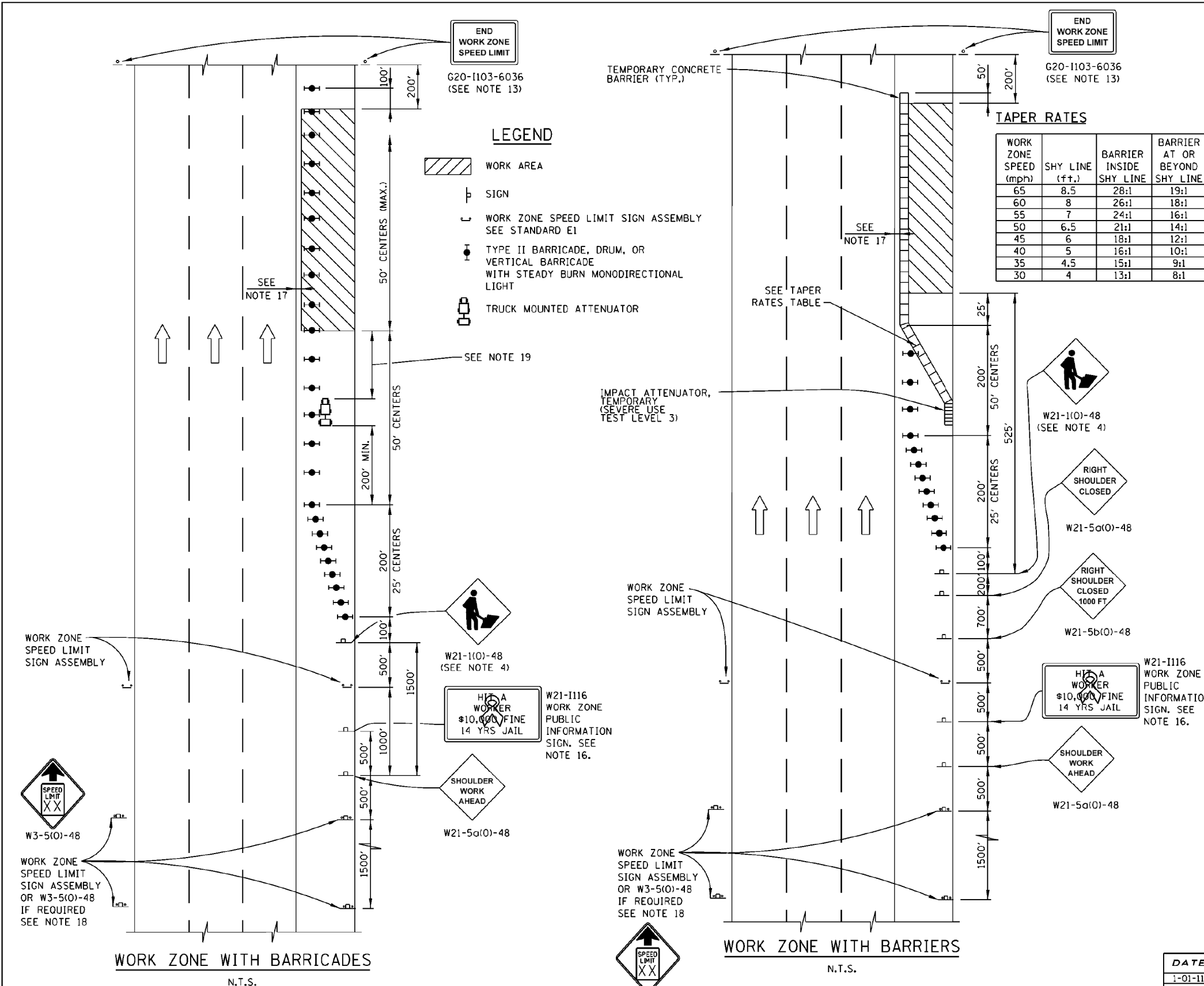
1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET FROM THE EDGE OF PAVEMENT.
2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE - "SHOULDER WORK AHEAD" SIGN.
5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II WITH STEADY BURNING LIGHT, TYPE C SHALL BE USED.
7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
11. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN SHOULDER CLOSURE IS REMOVED.
12. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
13. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
14. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.
15. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE IN COMPLIANCE WITH THE ROADWAY TRAFFIC CONTROL AND COMMUNICATIONS MANUAL.
16. THE WORK ZONE PUBLIC INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
17. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
18. SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH.
19. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED 100' TO 200' IN ADVANCE OF EACH WORK AREA, WHERE MULTIPLE CREWS ARE PRESENT, A TMA SHALL BE PROVIDED AT EACH WORK AREA.

TAPER RATES

| WORK ZONE SPEED (mph) | SHY LINE (ft.) | BARRIER INSIDE SHY LINE | BARRIER AT OR BEYOND SHY LINE |
|-----------------------|----------------|-------------------------|-------------------------------|
| 65 | 8.5 | 28:1 | 19:1 |
| 60 | 8 | 26:1 | 18:1 |
| 55 | 7 | 24:1 | 16:1 |
| 50 | 6.5 | 21:1 | 14:1 |
| 45 | 6 | 18:1 | 12:1 |
| 40 | 5 | 16:1 | 10:1 |
| 35 | 4.5 | 15:1 | 9:1 |
| 30 | 4 | 13:1 | 8:1 |

LEGEND

- WORK AREA
- SIGN
- WORK ZONE SPEED LIMIT SIGN ASSEMBLY SEE STANDARD E1
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TRUCK MOUNTED ATTENUATOR



APPROVED: *Paul Kovacs* CHIEF ENGINEERING OFFICER DATE: 5-1-2009

| DATE | REVISIONS |
|-----------|---|
| 1-01-11 | CHANGED SYMBOL DESIGNATION |
| | REVISED NOTES |
| 3-31-14 | REVISED WORKER SIGN NUMBERS PER "MUTCD" AND REVISED NOTES. |
| 3-11-2015 | REVISED NOTES |
| 3-31-2016 | ADD WORK ZONE WITH BARRIERS. |
| 3-31-2017 | ADDED TAPER RATE TABLE. |
| 3-01-2019 | DELETED W21-1a. ADJUSTED SIGN SPACING, ADDED TMA, REVISED NOTES |

Illinois Tollway

SHOULDER CLOSURE DETAILS

STANDARD E3-07

DUPAGE COUNTY DIVISION OF TRANSPORTATION 421 COUNTY FARM ROAD WHEATON, IL

| | |
|------------------|-----------|
| DESIGNED - AS | REVISED - |
| DRAWN - RR | REVISED - |
| CHECKED - EN | REVISED - |
| DATE - 6/10/2019 | REVISED - |

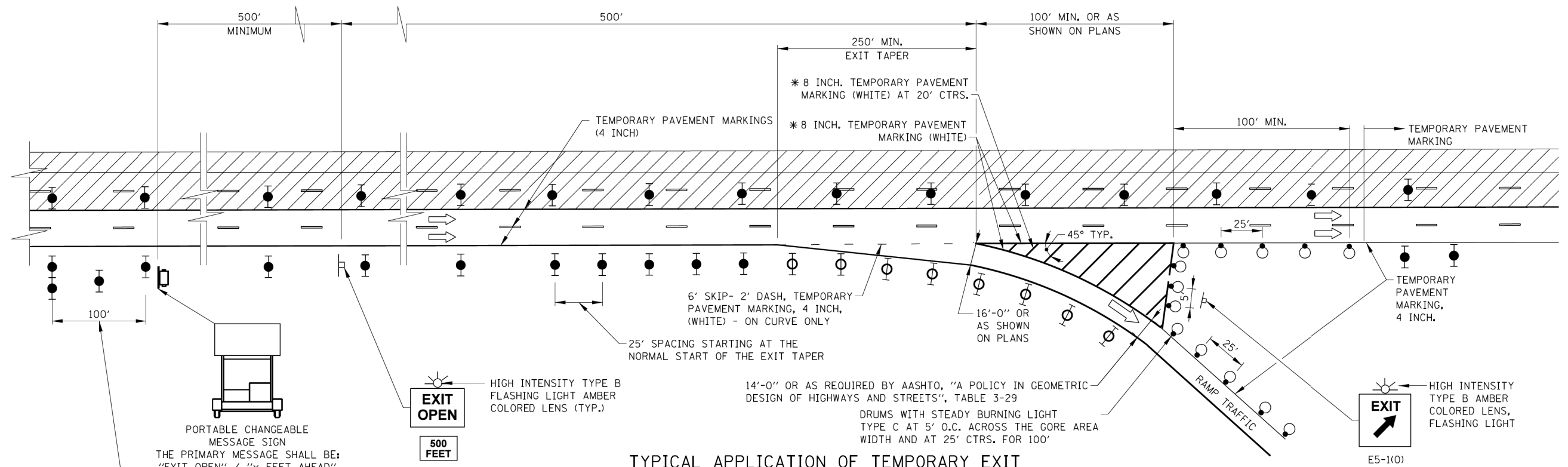
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOLLWAY DETAILS

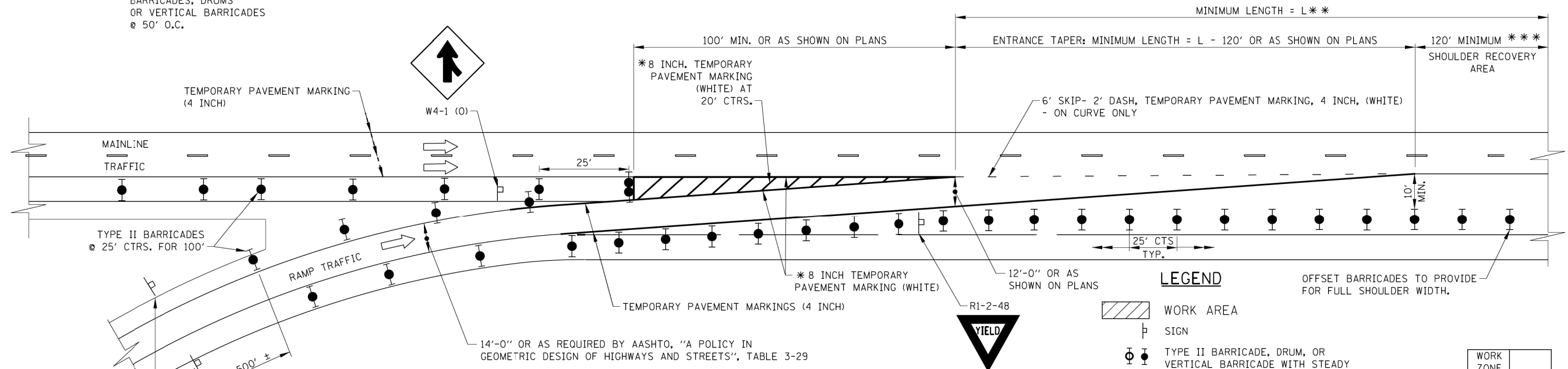
SCALE: NTS

| | | | | |
|-------------|----------------|-------------|--------------|--------------------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 345A | 14-00245-05-LS | COOK/DUPAGE | 37 | 36 |
| | | | | CONTRACT NO. 61E69 |

ILLINOIS FED. AID PROJECT



TYPICAL APPLICATION OF TEMPORARY EXIT GORE DELINEATION AND SIGNING



TYPICAL APPLICATION OF TEMPORARY ENTRANCE GORE DELINEATION AND SIGNING

LEGEND

- WORK AREA
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT - DIFFERENT TYPE USED IN TAPER THAN ON MAINLINE
- DRUM WITH STEADY BURN LIGHT

| WORK ZONE SPEED (mph) | L (FT) |
|-----------------------|--------|
| 45 | 540 |
| >45 | 600 |

- * 8 INCH TEMPORARY PAVEMENT MARKING IS TO BE MADE OF 2-TEMPORARY PAVEMENT MARKING 4 INCH, WHITE OF THE TYPE SPECIFIED.
- ** REFER TO TABLE - TAPER LENGTHS ARE BASED ON 12'-0" RAMP WIDTH AT START OF ENTRANCE TAPER
- *** WHERE VIABLE WITH STAGED CONSTRUCTION

NOTES:

1. WHEN TEMPORARY PAVEMENT MARKING IS NOT REQUIRED, TEMPORARY GORES MAY BE DELINEATED BY DRUMS WITH STEADY BURN LIGHTS AT 25' C-C ACCORDING TO THE CONFIGURATIONS SHOWN.
2. THE TAPER LENGTHS ARE MINIMUMS. EXISTING ACCELERATION, DECELERATION, AND TAPER LENGTHS SHOULD BE PRESERVED TO THE EXTENT POSSIBLE.

| DATE | REVISIONS |
|-----------|---|
| 2-07-2012 | REVISED MERGE SIGN. |
| 3-31-2014 | ADDED 45 MPH SPEED TO ENTRANCE TAPER. |
| 3-11-2015 | REVISED EXIT/ENTRANCE DETAIL LAYOUTS. REMOVED DETAILS NOT NEEDED. |
| 3-31-2016 | REVISED ENTRANCE GORE DETAIL. |
| 3-31-2017 | REVISED EXIT GORE DRUM LAYOUT |
| 3-01-2018 | REVISED DIMENSIONS FOR ENTRANCE TAPER. |
| 3-01-2019 | REVISED EXIT BARRICADES, ADDED EXIT OPEN 1000 FT SIGN |



TEMPORARY GORE DETAILS

STANDARD E5-08

Paul Kovacs
 APPROVED... CHIEF ENGINEERING OFFICER DATE: 5-1-2009