S.P. 111 EROSION AND SEDIMENT CONTROL

The Illinois Tollway, in order to comply with various environmental regulations, has included Bid Items from Section 280 of the Illinois Tollway Supplemental Specifications, which implement such compliance. The Contractor shall make his/her employees and subcontractors aware that the Illinois Tollway will strictly enforce these requirements.

The National Pollutant Discharge Elimination System (NPDES) program of the Federal Clean Water Act imposes erosion and sediment control requirements on construction projects that involve a land disturbance of one (1) acre or more. The procedures in this section are applicable to all Illinois Tollway projects that fall into these parameters.

Erosion and sediment control must be provided on all projects which will expose areas of soil or other material to potential displacement by precipitation and/or wind events such that sediment and other pollutants could adversely affect operations on the highway or associated rights-of-way, could be introduced into receiving waters, or could affect adjacent properties, sensitive environmental resources, or other resources which the Illinois Tollway has committed to protect from pollutant impacts. The nature and extent of the control measures should be appropriate to address the specific conditions involved and the measures must be properly maintained to ensure continued effective operation.

Projects which involve no roadway reconstruction, clearing and grubbing, excavation, stockpiling of soil and aggregates, borrow, or construction of embankment normally will not require erosion and sediment control measures. Projects that involve only isolated excavation normally will not require erosion and sediment control measures. The following are examples of actions which normally will not require erosion and sediment control measures:

- installation of lighting fixtures, signing, traffic signals or guardrail,
- weed spraying,
- pavement marking,
- seal coating,
- pavement patching,
- planting of woody landscaping materials, and
- ditch and pond cleanings if the soil is not redeposited on the site.

If a single project involves a cumulative land disturbance of one (1) acre or more, such as building demolition or building/facility construction at multiple locations, an erosion control plan and an NPDES permit is required.

All projects have evaluated the need for erosion and sediment control (and any additional right-of-way necessary to accommodate their implementation) as part

of the preparation of the Contract Documents and have incorporated the appropriate information to address the identified needs in the Plans. Included in the Plans are information identifying the types of erosion and sediment control practices to be used, the locations in which they will be applied, and when they should be applied in relation to the sequence of construction operations. The sequence of construction operations may not have been specified in the Contract Documents. Rather, the application of erosion and sediment control measures in relation to the specific stages of construction that may expose soil wherever those stages occur can be described. Locations for use of practices such as perimeter silt fence and ditch checks may be specified or shown as appropriate. The location and design for non-routine practices are indicated in the Plans.

S.P. 111.1 NPDES PERMIT NO. ILR10

The general construction site activities of this project will be conducted under the Illinois Environmental Protection Agency (IEPA) General Permit to Discharge Storm Water associated with construction site activities (ILR10).

The requirements of this permit include the development of a detailed Erosion and Sediment Control Plan (ESCP) and the preparation of a Storm Water Pollution Prevention Plan (SWPPP) that addresses erosion and sediment control issues, storm water management, and control of other pollutants that could impact the local environment. Also included are the installation of the required measures by the Contractor, along with the implementation of an active inspection and maintenance program, and the filing of the necessary required documents.

The Contract Drawings and Specifications describe the ESCP proposed for the project. The Contractor may submit new drawings defining the measures to be installed but these drawings will need to be approved by the Illinois Tollway prior to the Illinois Tollway signing the SWPPP.

The SWPPP, S.P. 111.2, is to be completed by the Contractor and submitted to the Illinois Tollway for review and signature. This SWPPP must be approved and signed by the Illinois Tollway and the Contractor and submitted to the IEPA 30 days prior to the start of construction, with the Notice of Intent (NOI). A copy of the signed SWPPP and referenced documents are to be kept on the construction site at all times by the Engineer and the Contractor. The SWPPP is to be updated by the Engineer and the Contractor as changes are made during construction.

The NOI must be submitted to the IEPA 30 days prior to the start of construction. The NOI will be started by the Design Section Engineer (DSE), who is responsible for completing the owner, construction site (except for construction start/end dates), type of construction, historic preservation and endangered species compliance, and receiving water information sections. The Contractor will finalize the NOI by completing the contractor information, dates of construction start/end, SWPPP, and any missing information from the type of construction information sections. The Contractor will submit the completed NOI to the Engineer, who will then submit it to the Illinois Tollway Environmental Unit for signature and filing with the IEPA. The Contractor shall submit the completed

NOI and SWPPP within five (5) business days of the Notice to Proceed date, to the Engineer in order to provide sufficient time for this process and for the forms to be filed with the IEPA 30 days before any ground disturbing activity begins. A copy of a blank NOI can be found at:

http://www.epa.state.il.us/water/permits/storm-water/construction.html.

A copy of the letter of notification of coverage from the IEPA, along with the General NPDES Permit for Storm Water Discharges from Construction Site Activities shall be posted at the site in a prominent place for public viewing.

The Illinois Tollway's General Permit ILR40 from the IEPA requires established and controlled concrete washout location(s) in order to reduce contaminated runoff into nearby ditches and streams. The Contractor shall be responsible for locating the concrete truck washout locations. At the time of the Preconstruction Conference, the Contractor shall submit for approval the proposed concrete truck washout location(s). The locations will be reviewed and discussed at the Preconstruction Conference to reinforce to the Contractor the importance of the sites so that pollutants do not reach the storm sewer or ditch systems. The approved location(s) shall be annotated on the Engineer's copy(ies) of the ESCP.

The Illinois Tollway's General Permit ILR40 also requires that sediment laden storm water runoff containing suspended and dissolved solids from roadway base comprised of either recycled concrete or rubblized concrete have said solids removed prior to discharging outside of Illinois Tollway right-of-way to the extent required by the NPDES General Permit. For construction areas adjacent to creeks and streams, the storm water's pH must also be moderated prior to discharge. The Contract Documents have incorporated appropriate Best Management Practices (BMPs) into the project plans to prevent these types of sediments from leaving Illinois Tollway right-of-way. The Contractor shall be responsible for installing identified BMPs, identifying any areas where sediments are leaving Illinois Tollway right-of-way, and removing said BMPs following completion of the project when sediments are no longer being released.

For any violation of the SWPPP observed during any inspection conducted, including those not required by the plan, and any illicit discharge (defined as any discharge that is not composed entirely of storm water) exiting the right-of-way or to receiving waters, the Engineer will immediately report the incident to the Illinois Tollway Environmental Unit and IEPA of notification being provided. Corrective actions must be taken immediately to address any non-compliance issues(s).

Reports of ION violations of the SWPPP and illicit discharges should be reported to the Illinois Tollway Environmental Unit at environment@getipass.com. For additional inquiry, contact (630) 241-6800 ext. 4222. The Illinois Tollway Environmental Unit will coordinate any potential violations directly with the IEPA. In addition, the Engineer will provide a written submission to the Illinois Tollway Environmental Unit and the project files within five days summarizing the incident(s) and actions taken.

A Notice of Termination (NOT) will be filed by the Engineer with the Illinois Tollway and the Contractor when construction is completed and construction related discharge authorized by the permit is eliminated, or the contract is

terminated. If the discharge of concrete fines continues at the time of contract termination, the Engineer will advise the Illinois Tollway Environmental Unit. The NOT will be filed when the site is permanently stabilized either with a uniform perennial vegetated cover that has a density of 70% coverage or has an equivalent permanent stabilization such as riprap, gabions, or geotextiles. In addition, the NOT will not be filed until all temporary erosion and sediment control measures have been removed. The NOT will not be filed until at least 30 days after all permanent stabilization is installed, all temporary erosion and sediment control measures have been removed, all BMPs associated with concrete or limestone dust particles from roadway base have been removed, and associated disturbed areas stabilized. The NOT will contain information on the dates the construction was completed and when the site was stabilized.

A copy of the General NPDES Permit ILR10 and samples of the NOI, ION and NOT are available at the following web site:

http://www.epa.state.il.us/water/permits/storm-water/construction.html.

All inspection reports, Contract Drawings relating to the NPDES permitted activities, the SWPPP as amended and other erosion and sediment control documents will be maintained by the Illinois Tollway for at least three (3) years after filing the NOT.

S.P. 111.2 STORM WATER POLLUTION PREVENTION PLAN

1. Site Description.

The following is a description of the construction activity which is the subject of this Plan:

a. The majority of work under this contract shall be performed along the Tri-State Tollway (I-294), and at the proposed Ramp S1 and Ramp S2 of the EOWA (I-490) in Cook County, Illinois. The project limits are summarized below:

Begin Contract (I-294) Station 1853+10.00 Mile Post 35.04 Latitude 41° 55' 37" N Longitude 87° 55' 11" W	End Contract (I-294) Station 1940+54.42 Mile Post 36.70 Latitude 41° 56' 24" N Longitude 87° 53' 53" W
Begin Contract (I-490, Ramp S1) Station 315+69.11 Mile Post 00.00 Latitude 41° 56' 8" N Longitude 87° 55' 1" W	End Contract (I-490, Ramp S1) Station 297+18.34 Mile Post 00.25 Latitude 41° 56' 23" N Longitude 87° 54' 49" W
Begin Contract (I-490, Ramp S2) Station 400+00.00 Mile Post 00.00 Latitude 41° 55' 50" N Longitude 87° 55' 10" W	End Contract (I-490, Ramp S2) Station 442+07.21 Mile Post 00.25 Latitude 41° 56' 24" N Longitude 87° 54' 48" W

b. The work under this contract includes the reconstruction of a portion of I-294, and the construction of I-490 Ramp S1 and Ramp S2. It includes, but is not limited to, roadway and bridge widening/reconstruction, temporary pavement, maintenance of traffic, ramp construction, retaining wall construction, new drainage systems, adjustment or removal of existing drainage structures, relocation of Franklin Park utilities, intelligent transportation system (ITS) infrastructure, installation of permanent pavement marking and signing, soil erosion and sediment control for all stages of construction, landscaping, and other appurtenant and miscellaneous construction shown on the Plans and as required by the Standard Specifications and these Special Provisions.

c. As described in the Plans and summarized below, this contract will be completed in several stages:

- The initial stage, Pre-Stage A, generally consists of outside shoulder reconstruction; utility installation/relocation (including jacking and boring activities); and commencement of retaining wall construction (including gantry foundation) along southbound I-294.

  Pre-Stage A is followed by Pre-Stage B and generally consists of the removal of existing sanitary sewer and water main; installation of proposed storm sewer; and continuance of retaining wall construction along southbound I-294. In addition, the detention basin excavation/grading and construction of the I-490 Ramp S1 and Ramp S2 north abutment embankment that started during Contract I-17-4687 will continue under this contract. The construction of I-490 Ramp S1 will commence, including the south approach bent, south abutment, and Piers 1-5. The construction of I-490 Ramp S2 will also commence, including Piers 5-8.

- Stage 1 and/or 1A generally consist of construction of the I-294 southbound outside shoulder and lanes, including temporary pavement, retaining wall, and portions of the bridges over Grand Avenue and the Union Pacific Railroad (UPRR). Construction of the I-490 Ramp S1 will continue, including Piers 1-5. The south approach bent and the south abutment construction will be completed. Construction of the north abutment and the north approach bent will commence. Construction of the I-490 Ramp S2 will continue. Piers 5-8 will be completed. Pier 9, the north abutment, and the north approach bent will be constructed.

  During Stage 1A, a temporary drainage system will also be

installed along a portion of I-294 southbound.

- Stage 2 and/or 2A generally consist of construction of the I-294 southbound and northbound inside lanes, including median barrier, median retaining wall, and portions of the bridges over Grand Avenue and the UPRR. Construction of the I-490 Ramp S1 will continue. Piers 1-5, the north abutment, and the north approach bent will be completed. Construction of the superstructure will begin. Construction of the I-490 Ramp S2 will also continue. Pier 4 will be constructed. The Unit 1 girders from Pier 4 to Pier 7 will be erected, and the Unit 2 superstructure will be constructed.
- Stage 3 generally consists of construction of the I-294 northbound outside shoulder and lanes, including retaining walls and portions of the bridges over Grand Avenue and the UPRR. The I-490 Ramp S1 superstructure will be completed. Construction of the I-490 Ramp S2 will continue, including Piers 1-3, the south abutment, and the south approach bent. The Unit 1 superstructure will be completed.
- Stage 4 generally consists of the completion of I-490 Ramp S2 construction, the completion of landscaping/final stabilization for this contract, and closure of the east crossover from Contract I-17-4449.

A description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as clearing, excavation, grading and on-site or off-site stockpiling of soils or storage of materials follows. Some of the construction activities below may be completed concurrently. The following activities will be performed for each applicable stage of construction (including Pre-Stage):

1) Install initial erosion and sediment control measures.
2) Install tree protection fencing, then perform clearing and tree/shrub removals.
3) Install proposed utilities and perform necessary utility relocations. Installation/relocation of utilities includes jacking, boring, and dewatering (as necessary) at locations shown on the Plans.
4) Temporarily stabilize disturbed soil areas that will remain idle for more than 14 calendar days (including soil stockpiles). Install same day stabilization to protect Addison Creek and steep slope(s) near the UPRR at locations shown on the Plans.
5) Perform necessary drainage structure (e.g., storm sewer, drainage inlet, catch basin, and culvert) construction.

Remove existing drainage structures (including installation of flowable fill), as necessary. Installation of proposed drainage structures includes jacking, boring, and dewatering (as necessary) at locations shown on the Plans. Install necessary inlet and outlet protection at the drainage structures immediately following their construction and prior to receiving runoff from disturbed soils.

6) Install and maintain concrete truck washout facilities.

7) Perform retaining wall and embankment construction, mass grading, and topsoil stockpiling. Continue excavation/ grading of the proposed detention basin (that started during Contract I-17-4687). Activities within the detention basin must be staged to allow work to progress while allocating portion(s) of the detention basin for dewatering BMPs and sediment control, as necessary. Dewater the work area, as necessary. Install temporary ditch checks in areas of concentrated flow immediately after grading.

8) Construct the proposed roadway, including (but not limited to) temporary pavement, temporary soil retaining systems, northbound and southbound lanes/shoulders, median barrier, ramps, and bridges. Dewater the construction area as necessary during construction of I-490 Ramp S1 and S2.

9) Final grade, furnish/place topsoil, and install permanent seeding/erosion control.

10) Remove all temporary erosion and sediment control measures after the site is final stabilized (e.g., with vegetation) and restore affected areas, unless otherwise noted on the Plans.

The aforementioned general description of construction staging will be modified by the Contractor's Progress Schedule that will be part of the SWPPP. The Contractor shall revise, maintain, and update the Suggested Progress Schedule as necessary as part of the SWPPP.

The "Suggested Progress Schedule" is shown on Sheets PS-01 and PS-02. Refer to the "Erosion Control/Temp Drainage Plan" and the "Landscape and Fencing Plan" (which shall be included as part of the SWPPP) for the planned erosion and sediment control measures and sequencing. Where deviations from those drawings are required because of field conditions, the Engineer shall document and maintain a record of the changes as part of this SWPPP.

d. The total area of the construction site is estimated to be approximately 60 acres (including on-site or off-site stockpiling of soils or storage of materials).

The total project area of the site that it is estimated to be disturbed by excavation, grading, or other earth disturbing activities is approximately 60 acres.

e. The estimated runoff coefficient of the various areas of the site after construction activities are completed is 0.9. Additional project information can be found in the Final Drainage Report, which is hereby incorporated by reference.

Information describing the soils at the site is contained in the Geotechnical Report for the project, incorporated by reference, and information available through the US Department of Agriculture Natural Resources Conservation Service (NRCS) web-based soil survey at:

https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.
Based on the NRCS web-based soil survey, the following soils are mapped within the project area:

- 533 – Urban Land
  - Susceptibility to water erosion: not listed
  - Susceptibility to wind erosion: not listed
- 805B – Orthents, clayey, undulating
  - Susceptibility to water erosion: moderate
  - Susceptibility to wind erosion: moderate

Urban Land (man-made soils) is the predominant soil type mapped within the project area. Note: The susceptibility to water and wind erosion is from the Soil Survey of Cook County, Illinois (2012).

f. The design/project report, hydraulic report, or plan documents identified below, hereby incorporated by reference, contain site map(s) indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of major soil disturbance, location(s) of proposed soil stockpiles or material storage, the location of major structural and nonstructural erosion and sediment controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged from the project to a surface water.

Relevant plan documents include:

SHEET NO.	TITLE
EC-01 to EC-51	EROSION CONTROL/TEMP DRAINAGE PLAN
LP-01 to LP-07	LANDSCAPE AND FENCING PLAN

g. Dewatering activities are anticipated at locations depicted in the Erosion Control/Temp Drainage Plan (including, but not limited to, areas where utilities or drainage structures will be jacked/bored and at the proposed detention basin area, including the proposed I-490 Ramp S1 and S2 piers). If necessary to ensure dewatering discharges comply with Clean Water Act requirements, the Contractor may need to use polymer flocculants. Proposed polymer flocculants shall be coordinated with the Engineer prior to use. If necessary during construction activities, the Contractor shall update the SWPPP with the following:

Identify the planned use of all polymer flocculants or treatment chemicals at the site. Dosage of treatment chemicals shall be identified, Safety Data Sheets (SDS) maintained, procedures for use, and staff responsible for use/application must be described.

h. The drainage systems which receive storm water discharge from the project are owned by:

- City of Northlake
- Cook County Department of Transportation and Highways
- Illinois Tollway
- Village of Franklin Park

i. The names of receiving water(s) and area extent of wetland acreage at the site are in the design/project report or plan documents which are incorporated by reference as a part of this Plan and are summarized below.

The primary streams and/or tributaries which receive runoff from the site are:

- Addison Creek (flows east, approximately 110 feet south of the contract limits at approximate STA 1852+00)
- Silver Creek (not located within the contract limits...the local storm sewer in the Village of Franklin Park outlets to Silver Creek)

The following wetlands are located within or adjacent to the project corridor:

Wetland Site ID	Total Area (acre)	Approximate Location
Wetland #69	0.32	STA 1895+00 - STA 1897+30
Wetland #74	0.41	STA 1853+00 - STA 1859+00
Wetland #75	0.55	STA 1853+00 - STA 1859+00
Wetland #76	0.28	STA 1845+00
Wetland #8	0.42	STA 303+00 - STA 309+00 (Ramp S1)

j. Addison Creek, Silver Creek, and Wetlands #74, 75, and 76 are to be protected through the implementation of BMPs and remain undisturbed during construction activities. A minimum 50-foot undisturbed buffer between the construction activities and the wetland/waters of the US will be provided where practicable. Where maintaining a 50-foot buffer is not practicable due to site constraints, additional erosion and sediment controls shall be provided (e.g., super silt fence).

Approximately 0.10 acre of permanent impact is anticipated at Wetland #69 as part of this project to construct a proposed retaining wall along northbound I-294. Wetland #69 is partially located within existing Illinois Tollway right-of-way and extends off site. The off-site portion of Wetland #69 shall be preserved and protected from impact by the installation of super silt fence.

Approximately 0.42 acre of permanent impact is anticipated at Wetland #8 (UP) as part of the roadway improvements, including the construction of Ramp S1.

In order to minimize downstream impacts at Addison Creek and adjacent wetland areas, the Contractor will be required to follow the notes pertaining to wetland and waters of the US included in the Erosion Control/Temp Drainage Plan and the conditions of the US Army Corps of Engineers Section 404 Individual Permit.

k. Silver Creek is not located within the project limits.

Addison Creek (AUID IL_GLA-04) is located roughly 110 feet south of the contract limits at approximately Station 1852+00 and will receive storm water runoff from the project corridor. Addison Creek is on the 2018 303(d) list. Impairment causes include: .alpha.-BHC, alteration in streamside or littoral vegetative covers, copper, hexachlorobenzene, other flow regime alterations, dissolved oxygen (DO), polychlorinated biphenyls, sedimentation/siltation, total suspended solids (TSS), phosphorus (total), bottom deposits, aquatic algae, and visible oil.

To protect Addison Creek from sedimentation/siltation and other impairment causes listed above, the Illinois Tollway will follow the SWPPP (including the Erosion Control/Temp Drainage Plan) and other Contract Documents prepared for this project. The SWPPP includes erosion, sediment, and other pollutant control BMPs to protect receiving waters (e.g., see Section 2 - Controls, Section 3 - Maintenance, and Section 8 - Spill Prevention - Material Management Practices below).

The Contractors shall use good housekeeping practices (e.g., material management, street sweeping, and spill prevention/

response), as appropriate, to manage the pollutants listed above and reduce pollutant discharges to Addison Creek. Fertilizers containing phosphorus are not proposed for this contract. Not using phosphorus fertilizers would address the phosphorus and aquatic algae impairment causes. The SWPPP will be actively implemented from the commencement of earth disturbing activities (including any demolition activities) until final stabilization/termination of permit coverage.

Adjacent to Addison Creek, the Erosion Control/Temp Drainage Plan includes temporary ditch checks, drainage inlet protection, and temporary erosion control (e.g., erosion control blanket, mulch, and seed) to protect the creek. The narrow right-of-way and limited work space adjacent to the creek limit structural BMP options. Therefore, vegetation removal, soil exposure, staging construction activities, and the use of same day stabilization will be coordinated as necessary to minimize idle, disturbed soils adjacent to Addison Creek. These BMPs will address the sediment/siltation related impairment causes. The Engineer and Contractor shall remain vigilant and coordinate as necessary so that discharges to Addison Creek meet NPDES requirements during construction activities.

In order to protect Addison Creek from impairment causes during traffic operations after construction is complete, the installation of Water Quality Manhole BMPs will be coordinated during the design of other adjacent Illinois Tollway contract(s).

Total Maximum Daily Loads (TMDL) for Salt Creek (including Addison Creek) were approved by the US Environmental Protection Agency (USEPA) in 2004. The Salt Creek TMDLs applicable to Addison Creek (AUID IL_GLA-04) include: ammonia-N (to address DO) and 5-day carbonaceous biochemical oxygen demand (CBOD) (to address DO). The applicable TMDLs were calculated using pollutant loads from point and nonpoint sources...the Illinois Tollway was not specifically listed. The TMDL modeling scenarios envisioned volatile suspended solids (VSS) reduction through storm water and combined sewer overflow (CSO) management to reduce Sediment Oxygen Demand (SOD)...this was expected to occur over time in relation to implementation of NPDES Phase II and compliance with CSO permits. The Illinois Tollway will continue to implement its Storm Water Management Program, which includes the six minimum control measures required by the General NPDES MS4 Permit (ILR40), to address the applicable TMDLs.

Dewatering of any excavation or coffered area shall be in accordance with this SWPPP and the Contract Documents. All discharge water shall pass through BMP(s) to ensure clear water

discharge from the site. Anticipated dewatering locations (including, but not limited to, areas where utilities or drainage structures will be jacked/bored and at the proposed detention basin area, including the proposed I-490 Ramp S1 and S2 piers) are depicted in the Erosion Control/Temp Drainage Plan. The SWPPP shall be updated by the Contractor as necessary.

l. The following pollutants and pollutant sources are anticipated to be associated with the project:

- ☒ Soils and Sediment
- ☒ Demolition Waste
- ☒ Paving Operation Materials and Waste
- ☒ Cleaning Products
- ☒ Joint and Patching Compounds
- ☒ Concrete Curing Compounds
- ☒ Painting Products and Wastes
- ☒ Sandblasting Materials and Waste Products
- ☒ Landscaping Materials and Wastes
- ☒ Soil Amendments and Stabilization Products
- ☒ Building Construction Materials and Wastes
- ☒ Vehicle and Equipment Fluids
- ☒ Building Construction Materials and Wastes
- ☒ Portable Toilet Wastes
- ☒ Litter and Miscellaneous Solid Waste
- ☒ Glues, Adhesives, and Sealants
- ☐ Contaminated Soils
- ☐ Dust Palliative Products
- ☐ Other (specify):
- ☐ Other (specify):
- ☐ Other (specify):
- ☐ Other (specify):

2. Controls.

This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in Sections 1.b. and 1.c. above. For each measure discussed, the Contractor that will be responsible for its implementation is indicated. Each such Contractor has signed the required certification on forms which are attached to, and are part of, this Plan.

The Erosion Control/Temp Drainage Plan (included in the Contract Documents) defines the size and location of the measures to be installed during the construction of this project.

a. Erosion and Sediment Controls.

(i) **Stabilization Practices**. Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas must be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities, and shall be completed as soon as possible but not later than 14 days from the initiation of stabilization work in an area. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.

Where shown on the Contract Plans, same day stabilization shall be utilized to reduce the movement of soils once they are exposed by the Contractor's operations. Same day stabilization is to be implemented after the initial perimeter controls are in place and concurrently with the Contractor's daily operations. In this case, the work zone must be left in such condition that the grading areas disturbed that day are stabilized, and measures are in place to control sediment laden stormwater.

The Engineer may also direct the Contractor to provide same day stabilization to critical disturbed areas where there is a risk that sediment laden runoff may occur. When directed by the Engineer, same day stabilization of specified areas shall commence the same day as directed and shall be completed no later than 24 hours after receipt of such direction.

Same day stabilization may consist of either temporary erosion control measures or the permanent landscaping indicated on the Contract Plans. When permanent landscaping is not possible, due either to construction staging or site constraints, same day stabilization shall consist of temporary erosion control measures. Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where practicable and disturbed portions of the site are stabilized.

The following stabilization practices will be used for this project:

- ☐ Temporary Stabilization with Straw Mulch
- ☒ Same-Day Stabilization
- ☒ Erosion Control Blanket
- ☒ Temporary Seeding
- ☒ Permanent Seeding
- ☒ Tree Protection Fence
- ☒ Mulching

☒ Geotextiles
☐ Sod
☒ Vegetative Buffer
☒ Staged or Staggered Development
☒ Dust Control Watering/Suppression Agents
☒ Soil Stockpile Management
☒ Other (specify): Articulated Concrete Block Revetment System
☒ Other (specify): Coarse Aggregate and Riprap
☐ Other (specify):
☐ Other (specify):

Description of Stabilization Practices

- Same day stabilization shall be used to protect Addison Creek. Same day stabilization shall also be used at steep slope(s) near the UPRR.
- Disturbed areas that will temporarily sit idle shall be stabilized with temporary mulch, temporary erosion control blanket, and/or temporary seed as soon as practicable after cessation of earth disturbing activities.
- Permanent seeding (installed with erosion control blanket) shall be used as a permanent erosion control measure.
- In select locations, tree protection fencing will be utilized to prevent damage and erosion of tree roots and to preserve tree bark and appearance.
- A minimum 50-foot undisturbed buffer between the construction activities and the wetland/waters of the US will be provided where practicable. Where maintaining a 50-foot buffer is not practicable due to site constraints, additional erosion and sediment controls shall be provided (e.g., super silt fence).
- The contract has been divided into multiple stages. This will limit the amount of soil exposed during construction activity.
- Dust control, implemented using a spray application of water, shall be used as necessary to control fugitive dust emissions. Repetitive treatment will be applied as needed to accomplish dust control when temporary dust control measures are used. A water truck will be present on site (or available) for sprinkling/irrigation to limit the amount of dust leaving the site. Watering will be applied daily (or more frequently) to be effective. If field observations indicate that additional protection (in addition to, or in place of watering) is necessary, alternative dust suppressant

controls will be implemented at the discretion and approval of the Engineer.

- Soil storage piles containing more than 10 cubic yards of material shall not be located within 25 feet of a roadway or drainage channel. Sediment controls, consisting of silt fence or equivalent, shall be installed immediately on the downslope side of the piles.
- Articulated concrete block revetment system (closed cell block with geotextile fabric) will be installed at the slope beneath the south end of Ramp S2. The articulated concrete block revetment system will be installed to provide slope protection, minimize maintenance, and control erosion from numerous freefall drainage scuppers at the bridge.
- Coarse aggregate and riprap will be installed (with geotextile fabric) under the I-294/UPRR bridge and at the detention basin, respectively. The course aggregate under the I-294/ UPRR bridge will provide erosion control in an area where it would be difficult to establish vegetation due to shading. The riprap will be installed at the bottom of the detention basin as final stabilization and to minimize wildlife attraction because of the project's vicinity to O'Hare International Airport.
- Additional protective measures will be installed as required and as directed by the Engineer.

The Engineer and Contractor shall maintain records of the dates when major grading activities occur, when construction activities have temporarily or permanently ceased on a portion of the site, and when stabilization measures area initiated.

(ii). Structural Practices.

Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Included in the description is the site-specific scheduling of the implementation of the practices and the locations for their use.

The following structural practices will be used for this project:

☒ Silt Fence
☒ Super Silt Fence
☒ Temporary Ditch Checks
☐ Temporary Rock Check Dams

- ☒ Filter Fabric Inlet Protection, Basket Type
- ☒ Filter Fabric Inlet Protection, Cover Type
- ☒ Rectangular Inlet Protection
- ☐ Culvert Inlet Protection Fence
- ☒ Culvert Inlet Protection Stone
- ☐ Sediment Traps
- ☐ Sediment Basins
- ☐ Temporary Pipe Slope Drains
- ☐ Temporary Stream Crossings
- ☒ Stabilized Construction Entrances
- ☐ Temporary Riprap
- ☐ Temporary Swales
- ☐ Temporary Channel Diversion
- ☐ Diversion Dike
- ☒ Sediment Filter Bag
- ☐ Dewatering Basin
- ☐ Flotation Boom
- ☐ Other (specify):
- ☐ Other (specify):
- ☐ Other (specify):
- ☐ Other (specify):

Initial Construction

Silt fence shall be installed at the perimeter of work areas, including where runoff sheet flows off site. Super silt fence shall be installed at the perimeter of wetlands located immediately adjacent to work areas and adjacent to the I-490 Ramp S1 and Ramp S2 north abutment embankment. Silt fence allows sediment to settle from runoff before storm water leaves the work area. Perimeter silt fence shall be installed prior to the initiation of earth disturbing construction activities. Silt fence will be installed around temporary topsoil stockpiles and will be installed prior to beginning stockpiling activities. Silt fence shall not be installed where sheet flow enters the construction site, unless directed by the Engineer.

Stabilized construction entrance(s) shall be installed at ingress/egress points to reduce or eliminate the tracking of sediment onto public rights-of-way or streets. The rough texture of the stone helps to remove clumps of soil adhering to construction vehicle tires through the action of vibration and jarring over the rough surface and the friction of the stone matrix against soils attached to vehicle tires.

Temporary ditch checks shall be installed at existing ditches to reduce flow velocity and trap sediment.

Existing culverts and existing inlets, catch basins, and manholes with open lids shall be protected with appropriate inlet protection to detain and/or filter sediment-laden runoff and allow sediment to settle.

During Construction

The work areas shall be graded as the project progresses to eliminate the concentration of runoff and/or appropriate sediment control devices shall be installed to trap sediment.

Active storm sewer will discharge into the detention basin work area as construction progresses. Activities within the detention basin must be staged to allow work to progress while allocating portion(s) of the detention basin for dewatering BMPs and sediment control, as necessary. The Contractor shall submit a Detention Basin Work Plan and a Dewatering Plan for Engineer approval. An in-line flocculation system, floc logs, and sediment filter bags may be included as part of the dewatering BMP treatment train.

Temporary soil retention systems shall be installed as indicated on the Plans to retain exposed soil and support construction activities. If the volume, velocity, sediment load, or peak flow rates of storm water runoff are temporarily increased during construction, then properties and special management areas downstream from the project shall be protected from erosion. Temporary ditch checks shall be installed in areas of concentrated flow immediately after grading.

Stripping of existing vegetation/topsoil, grading activities, and utility installation shall be performed in a manner that limits the amount of exposed soil at any one time. Temporary stabilization shall be installed at all idle, disturbed areas as described above at "Stabilization Practices". Same day stabilization shall be used as indicated on the Plans to protect Addison Creek and steep slopes at the UPRR.

Proposed drainage structures shall be protected with inlet and outlet protection immediately following their construction and prior to receiving runoff from disturbed soils.

Post Construction

Once grading is complete, topsoil, permanent seeding, and appropriate erosion control (e.g., erosion control blanket) shall be applied to disturbed soil areas.

Temporary erosion and sediment control measures shall be removed after final stabilization of those portions of the site located upslope of the controls.

b. Permanent Storm Water Management Controls.

Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

(i) Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff on site; and sequential systems (which combine several practices). The Contractor should incorporate green infrastructure storm water management techniques where appropriate and practicable. The practices selected for implementation should be determined on the basis of the technical guidance in the Illinois Tollway Drainage Design Manual. If practices are applied to situations different from those covered in the Illinois Tollway Drainage Design Manual, the technical basis for such decisions will be explained.

(ii) Per the Illinois Tollway's General Permit ILR40, one or more of the following general strategies for permanent storm water management should be adopted, in order of preference:

- Preservation of natural features of the site, including natural storage and infiltration
- Preservation of existing natural streams, channels, and drainage ways
- Minimization of impervious surfaces
- Conveyance of storm water in open vegetated channels
- Construction of structures that provide both quantity and quality control
- Storm water management should maintain natural buffers around surface waters, minimize soil compaction, and unless infeasible, preserve topsoil.

(iii) Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics

and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).
Permanent storm water management controls to be installed as part of the project are as follows:

- Oversized storm sewers
- Articulated concrete block revetment system
- Open vegetated channels (i.e., drainage ditches) along portions of the corridor
- Detention basin (a riprap-lined basin that provides storm water storage capacity while also providing some additional water quality benefit)

c. Other Controls.

(i) Non-Hazardous Waste Disposal shall conform to Article 202.03 of the Standard Specifications. No solid materials, including building materials, shall be discharged into wetlands or waters of the US, except as authorized by a Section 404 permit.

(ii) Except as listed in Section 5 below, non-storm water discharges are prohibited, including (but not limited to) concrete, wastewater from concrete washout areas; release of oils, curing compounds, or other construction materials; fuels; other pollutants used in vehicle and equipment operation and maintenance; soaps, solvents; detergents; or any other pollutant that could cause water pollution.

(iii) Hazardous Waste Disposal shall conform to Article 107.19(a) of the Illinois Tollway Supplemental Specifications.

(iv) Sanitary Waste Materials: The Contractor shall not create or allow unsanitary conditions. All personnel involved with construction activities must comply with State and local sanitary or septic system regulations. Temporary sanitary facilities will be provided at the site throughout the construction phase. The temporary sanitary facilities must be used by all construction personnel and serviced by a commercial operator. The location of sanitary facilities shall be shown on the plan sheets. Portable toilets must be securely anchored and are not allowed within 30 feet of storm water inlets or within 50 feet of a waters of the US (to the extent practicable).

(v) Off-Site Vehicle Tracking: Each site shall have one or more stabilized construction entrance(s) in conformance with Standard Specifications and Standard Design Details. The stabilized construction entrance(s) shall be installed as necessary to reduce or eliminate the tracking of sediment onto public rights-of-way or streets.

Where the Contractor's equipment is operated on any portion of the traveled surface or structures used by traffic on or adjacent to the section under construction, the Contractor shall clean (not flushing) the traveled surface of all dirt and debris at the end of each day's operations, or more frequently if directed by the Engineer.

(vi) Dewatering: Discharges from dewatering operations must be directed through an appropriate pollution prevention/treatment measure, such as a sediment filter bag, sediment trap, or sediment basin prior to being discharged from the site or into a wetland/waters of the US. Under no circumstances are discharges from dewatering operations to be discharged directly into wetlands, streams, rivers, lakes, or other areas beyond the permitted project area. Likewise, untreated dewatering discharge into storm sewer systems that do not drain to a suitable on-site treatment facility, such as a basin, are also prohibited. To the extent feasible, vegetated areas of the site shall be used to infiltrate dewatering water before discharge.

Discharges from dewatering operations shall be conducted in a manner sufficient to prevent erosion and minimize sediment from the discharge to the maximum extent practical. Dewatering discharges shall also be treated or controlled to minimize discharges of pollutants and shall not include visible floating solids or foam, oil, grease, or other similar products.
Discharge from dewatering shall be to a stable surface using an aggregate leveling pad and secondary containment in accordance with Illinois Tollway standards. Discharge shall be no more turbid that the receiving water and will be immediately stopped if the receiving water shows signs of cloudy water, erosion, or sediment accumulation.

(vii) Treatment Chemicals: If polymers, flocculants, or other treatment chemicals are used at the site, their use must comply with the following minimum requirements:

a) Select appropriate treatment chemicals. Chemicals must be selected that are appropriately suited to the types of soils likely to be exposed during construction and discharged to locations where chemicals will be applied, and to the expected turbidity, pH, and flow rate of storm water flowing into the chemical treatment

system or area.

b) Minimize discharge risk from stored chemicals. Store all treatment chemicals in leak-proof containers that are kept under storm resistant cover and surrounded by secondary containment structures (e.g., spill berms, decks, spill containment pallets), or provided equivalent measures, designed and maintained to minimize the potential discharge of treatment chemicals in storm water or by any other means (e.g., storing chemicals in covered area or having a spill kit available on site).

c) Maintain associated SDS on site.

d) Ensure that all persons who handle and use treatment chemicals at the construction site are provided with appropriate, product-specific training. The training must cover proper dosing requirements.

e) Treatment chemicals and chemical treatment systems should be used in accordance with good engineering practices, and with dosing specifications and sediment removal design specifications proved by the provided supplier of the applicable chemicals, or document specific departures from these practices of specifications and how they reflect good engineering practice.

(viii) Soil Storage Pile Protection: Soil storage piles containing more than 10 cubic yards of material shall not be located within 25 feet of a roadway or drainage channel. Sediment controls, consisting of silt fence or equivalent, shall be installed immediately on the downslope side of the piles.

(ix) Concrete Dust Particles: Dust particles and other fine materials generated due to the use of rubblized or recycled concrete as roadway base, must be removed from storm water prior to the water discharging to outside of Illinois Tollway right-of-way. This material can be removed via vegetated ditches as long as there is sufficient time and space for removal prior to the discharge of the storm water to outside the right-of-way. For those areas where there is not sufficient space and time for vegetative remediation, other methods for removing said materials will be identified. For construction areas adjacent to creeks and streams, the storm water's pH must also be moderated prior to discharge.

Special BMPs designed to remove concrete or limestone dust particles from storm water runoff in contact with recycled or rubblized concrete underpavement must be removed once the storm water discharging from the site is determined to be clean. This is often several months following completion of the project. The Contractor may have to return to the project area following

project completion to remove these BMPs and restore the affected work area.

(x) Concrete Wastes: Concrete washout and slurries generated from saw-cutting, coring, grinding, milling, grooving, or similar construction activities are required to be contained and are prohibited from entering storm drains or watercourses. Concrete waste management and disposal shall conform to Article 280.28 of the Illinois Tollway Supplemental Specifications.

(xi) Fugitive Dust Control: The Contractor shall control fugitive dust emissions due to construction activities as necessary and directed by the Engineer. Repetitive treatment shall be applied as directed to accomplish control based on site and weather conditions. A water truck shall be present on site (or be available) for sprinkling/ irrigation to limit the amount of dust leaving the site. Watering shall be applied daily (or more frequently) to be effective. Caution shall be used not to overwater, as that may cause erosion. If field observations indicate that additional protection is necessary, alterative dust suppression controls shall be implemented at the discretion and approval of the Engineer.

(xii) Vehicle/Equipment Storage, Cleaning and Maintenance:

Construction vehicles shall be inspected frequently to identify any leaks; leaks shall be repaired immediately or the vehicle removed from site. If minor vehicle/equipment maintenance must occur on site, repairs and maintenance shall be made within an approved staging or storage area or other approved location to prevent the migration of mechanical fluids to watercourses, wetlands, or storm drains. Spill response equipment shall be readily available when performing any vehicle or equipment maintenance. When not in use, vehicles and equipment used for construction operations shall be staged outside of the regulatory floodplain and away from any natural or created watercourses, ponds, drainageways, or storm drains.

Cleaning of vehicles and equipment is discouraged and shall be performed only when necessary to perform repairs or maintenance. Cleaning of vehicles and equipment with soap, solvents, or steam shall not occur on the project. Vehicle and equipment wash water shall be contained for percolation or evaporative drying away from storm drain inlets or watercourses.

(xiii) Site Clean-up: Trapped sediment and other disturbed soils resulting from the disposition of temporary erosion and sediment control measures shall be permanently stabilized to prevent further erosion and sedimentation.

d. **Approved State or Local Plans.**

The management practices, controls, and other provisions contained in this Plan will be in accordance with the Illinois Tollway Supplemental Specifications and Standard Drawings, which are at least as protective as the requirements contained in the Illinois Urban Manual standards and specifications. Procedures and requirements specified in applicable sediment and erosion control site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion control site plans, site permits, storm water management site plans, or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of a NOI, to be authorized to discharge under this permit, incorporated by reference, and are enforceable under this permit even if they are not specifically included in the plan.

The Contractor shall follow Illinois Tollway and applicable Illinois Department of Transportation design standards/requirements pertaining to soil erosion and sediment control and storm water management. The Contractor shall also:

- Obtain a copy of the US Army Corps of Engineers Section 404 of the Clean Water Act permit for the project site and shall meet the requirements of all applicable permit conditions.

- Be familiar with and abide by the Federal Aviation Administration Advisory Circular No. 150/5200-33B, Hazardous Wildlife Attractants on or Near Airports (dated August 28, 2007), or latest version.

3. **Maintenance.**

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this Plan.

- Erosion and Sediment Control Manager (ESCM): The Contractor shall assign an ESCM to the project. This person is required to have taken an approved sediment and erosion control training course. The ESCM will be responsible for supervising the maintenance of erosion and sediment control measures and implementation of this Plan.

- Protection of Existing Vegetation: Replace damaged vegetation with similar species as directed by the Engineer. Restore areas disturbed, disrupted or damaged by the Contractor to pre-construction conditions or better at no additional expense to the contract. Trim any cuts, skins,

scrapes or bruises to the bark of the vegetation and utilize local nursery accepted procedures to seal damaged bark. Prune all tree branches broken, severed or damaged during construction. Cut all limbs and branches, one-half inch or greater in diameter, at the base of the damage, flush with the adjacent limb or tree trunk. Smoothly cut, perpendicular to the root, all cut, broken, or severed (during construction) roots 1-inch or greater in diameter. Cover roots exposed during excavation with moist earth and/or backfill immediately to prevent roots from drying.

- Inlet Protection: Remove sediment from inlet filter baskets when basket is 25% full or 50% of the fabric pores are covered with silt. Clean filter if standing water is present longer than one hour after a rain event. Clean sediment or replace silt fence when sediment accumulates to one-third the height of the fabric. Where there is evidence of sediment accumulation adjacent to the inlet protection device, remove the deposited sediment by the end of the same business day in which it is found or by the end of the following business day if removal by the same business day is not feasible. Remove trash accumulated around or on top of the inlet protection device. When filter is removed for cleaning, replace fabric if any tear is present.

- Outlet Protection/Temporary Riprap: Restore dislodged protection and correct erosion that may occur. Remedy deficient areas prone to increased erosion immediately to prevent greater deficiencies.

- Temporary Ditch Checks: Remove sediment from upstream side of ditch checks when sediment has reached 50% of height of structure. Repair or replace ditch checks whenever tears, splits, unraveling or compressed excelsior is apparent. Replace torn fabric mat that may allow water to undermine ditch check. Remove debris (garbage, crop residue, etc.) when observed. Re-establish the flow over the center of the ditch check. Water or sediment going around the ditch check indicates incorrect installation. Device needs lengthening or the selected device is inappropriate for site conditions. Remove ditch checks once all upslope areas are stabilized and seed or otherwise stabilize temporary ditch check areas.

- Temporary Rock Check Dams: Remove sediment from upstream side of the check dam when sediment has reached 50% of height of check dam. Replace the aggregate and fabric when sediment has filled all voids in the stone, so that sediment is filtered and discharged. Repair or replace fabric whenever tears, splits or unraveling are apparent. Repeated failures necessitate a design review. Restore outside slopes to 1(V):2(H). Stone placed for restoration is the same size as originally specified to allow proper interlock. Restore the center of the rock check dam periodically to ensure it is lower than the sides. Retrench the fabric if undercutting occurs. Reduce center flow line or lengthen check dam if water flows around device.

- Silt Fence: Repair tears, gaps or undermining. Restore leaning silt fence and ensure taut. Repair or replace any missing or broken stakes immediately. Clean fence line if sediment reaches one-third height of barrier. Remove fence once final stabilization is established. Repair fence if undermining occurs anywhere along its entire length.

- Temporary Sediment Basin: Maintain the temporary sediment basin in effective operating condition and remove accumulated sediment when the capacity of the basin has been reduced by 50%. The Contractor shall dispose of removed material in accordance with Article 202.03 of the Standard Specifications.

- Mulch: Repair straw if blown or washed away, or if hydraulic mulch washes away. Place tackifier or an erosion control blanket if mulch does not control erosion.

- Erosion Control Blanket: Repair damage due to water running beneath the blanket and restore blanket when displacement occurs. Reseeding may be necessary. Replace all displaced blanket and re-staple.

- Seeding: Reapply seed if stabilization hasn't been achieved. Apply erosion control blanket or mulch to hold seed in place if seed has been washed away or found to be concentrated in ditch bottoms. Restore rills as quickly as possible on slopes steeper than 1(V):4(H) to prevent sheet-flow from becoming concentrated flow patterns. Mow, if necessary, to promote seed soil contact when excessive weed development occurs. Supplement seed if weather conditions (extreme heat or cold) are not conducive to germination.

- Sod: Limit foot traffic to low use for the first two to three weeks. Ensure irrigation rate does not result in runoff. Install salt-tolerant sod where needed. Replace when >25% of any individual piece of sod is no longer viable. Restore areas where rolling edges are present or sod is displaced.

- Temporary Stabilized Construction Entrances: Replenish stone or replace exit if vehicles continue to track sediment onto the roadway from the construction site. Sweep sediment on roadway from construction activities immediately. Any track-out that occurs beyond the stabilized construction entrance shall be removed by wet sweeping no later than the end of the day in which the track-out occurs, or more frequently as directed by the Engineer. Ensure culverts (if provided) are free from damage and repair or replace as needed.

- Stockpile Management: Repair and/or replace perimeter controls and stabilization measures when stockpile material has potential to be discharged or leave the limits of the protection. Remove all off-tracked material by sweeping or other methods. Update the SWPPP any time a stockpile location has been removed, relocated, added or required

maintenance. During summer months, stockpiles should be watered to maintain the cover crop.

- Dewatering: Ensure proper operation and compliance with permits or water quality standards. Remove accumulated sediment from the flow area. Dispose of sediment in accordance with all applicable laws and regulations. Remove and replace dewatering bags when half full of sediment or when discharge rate is impractical. Immediately stop discharge if receiving areas show signs of cloudy water, erosion, or sediment accumulation.

- Temporary Concrete Washout: Do not discharge wastewater into the environment (Note: Acidity, not particulates, is environmentally detrimental). Facilitate evaporation of low volume washout water. Clean and remove any discharges within 24 hours of discovery. If effluent cannot be removed prior to anticipated rainfall event, place and secure a non- collapsing, non-water collecting cover over the washout facility to prevent accumulation and precipitation overflow. Replace damaged liner immediately. Remove washout when no longer needed and restore disturbed areas to original condition. Properly dispose of solidified concrete waste.

- Material Delivery and Storage: Document the various types of materials delivered and their storage locations in the SWPPP. Update the SWPPP any time significant changes occur to material storage or handling locations and when they have been removed. Clean-up spills immediately. Remove empty containers.

- Solid Waste Management: Designate a waste collection area(s) and identify them in the SWPPP. Inspect inlets, outfalls, and drainageways for litter, debris, containers, etc. Observe the construction site for improper waste disposal. Update the SWPPP any time the trash management plan significantly changes. Correct items discarded outside of designated areas.

- Vehicle and Equipment Fueling, Cleaning, and Maintenance: Clean-up spills immediately. Contractor must provide documentation that spills were cleaned, materials disposed of, and impacts mitigated. Update the SWPPP when designated location has been removed, relocated, added or requires maintenance. In the event of a spill into a storm drain, waterway or onto a paved surface, the owner of the fuel must immediately take action to contain the spill. Once contained, clean-up the spill. As an initial step this may involve collecting any bulk material and placing it in a secure container for later disposal. Follow-up cleaning will also be required to remove residues from paved or other hard surfaces.

- Portable Restroom Facilities: Maintain in accordance with applicable laws to prevent unsanitary conditions. Check for leaks and remove and replace as needed.

4. Inspections and Corrective Actions.

The Engineer will be responsible for conducting inspections along with the Contractor's ESCM. A maintenance inspection report will be completed after each inspection. A copy of the report form will be completed by the Engineer and Contractor and will be maintained on site.

Qualified personnel shall inspect disturbed areas of the construction site which have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site. Such inspection shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm or by the end of the following business or work day that is 0.5 inches or greater or the equivalent snowfall. Inspections may be reduced to once per month when construction activities have ceased due to frozen conditions. Weekly inspections shall recommence when construction activities are resumed, or if there is a 0.50 inches or greater rain event, or a discharge due to snowmelt occurs.

a. Disturbed areas and areas used for storage of wastes, equipment, and materials shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. All locations where stabilization measures have been implemented shall be observed to ensure that they are still stabilized. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking. If repair is necessary, it will be initiated within 24 hours of the completion of the inspection report.

If the inspections determine concrete fines are discharging as a result of roadway reconstruction, the Contractor must ensure that the discharge does not exit the right-of-way. The Engineer will immediately test the pH levels of the affected discharge runoff to determine the average pH levels. Where pH levels exceed 9.0, the Engineer will recommend remediation strategy to reduce the alkalinity to acceptable levels before allowing to exit the right-of-way or discharge to environmentally sensitive locations.

b. Based on the results of the inspection, the description of potential pollutant sources identified in Section 1 above, and pollution prevention measures identified in Section 2 above, the SWPPP shall be revised as appropriate as soon as practicable after such inspection to minimize discharges. Any changes to this Plan resulting from the

required inspections shall be implemented within seven (7) calendar days following the inspection.

c. A report summarizing the scope of the inspection, name(s), qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this SWPPP, and actions taken in accordance with Section 4.b. above shall be made and retained as part of the Plan for at least three (3) years after the date of the inspection. The report shall be signed by the Contractor and the Engineer.

d. For any violation of the SWPPP observed during any inspection conducted, including those not required by the Plan, and any illicit discharge (defined as any discharge that is not composed entirely of storm water) exiting the right-of-way or to receiving waters, the Engineer will immediately report the incident to the Illinois Tollway Environmental Unit and shall be submitted electronically on the Incidence of Non-Compliance (ION) forms provided by IEPA within 12 hours.

   Reports of violations of the SWPPP or illicit discharges shall be reported to the Illinois Tollway Environmental Unit at environment@getipass.com. For additional inquiry, contact (630) 241-6800 ext. 4222. The Illinois Tollway Environmental Unit will coordinate any potential violations directly with the IEPA. In addition, the Engineer will provide a written submission to the Illinois Tollway Environmental Unit and the project files within 5 days summarizing the incident(s) and actions taken.

e. Corrective action shall be taken to address any of the following conditions if identified at the site: a stormwater control needs repair or replacement; a stormwater control necessary to comply with the requirements of this permit was never installed or was installed incorrectly; or discharges are causing an exceedance of applicable water quality standards; or a prohibited discharge has occurred.

   Corrective actions shall be completed as soon as possible and documented within 7 days of the non-compliance in an inspection report. If it is infeasible to complete the installation or repair within seven (7) calendar days, the inspection report(s) will describe the conditions contributing to the infeasibility to complete the installation or repair within the 7-day timeframe and document the schedule for installing the stormwater control(s) and making them operational as soon as feasible after the 7-day timeframe.

5. **Non-Storm Water Discharges.**

The following non-storm water discharges may combine with storm water discharges that are treated by the measures included in this Plan and are anticipated on the project:

☒ Waters used to wash vehicles where detergents are not used.

☒ Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed) and where detergents are not used.

☐ Irrigation drainages.

☒ Uncontaminated ground water.

☒ Foundation or footing drains where flows are not contaminated with process materials, such as solvents.

☒ Potable water sources including uncontaminated waterline or fire hydrant flushings.

☒ Waters used to control dust.

☒ Discharges from dewatering of trenches and excavations if managed by appropriate controls.

6. **Contractor Operations.**

The Contractor shall provide the following information should they elect to modify the work plan as described above in Sections 1.b. and 1.c. or use polymer flocculants or other chemical treatments at the site.

a. A revised description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as clearing, excavation, grading and on-site or off-site stockpiling of soils or storage of materials.

b. A revised total area of the construction site, including on-site or off-site stockpiling of soils or storage of materials.

c. A work plan shall be submitted for approval to the Engineer covering the use of all polymer flocculants or treatment chemicals at the site, if applicable. See Section 9 below for Contractor Required Submittals.

7. Contractor Inventory of Hazardous Materials and Substances.

The materials or substances listed below are expected to be present on-site during construction (use additional pages, as necessary). **To be filled in by Contractor.**

See Attached	

8. Spill Prevention - Material Management Practices.

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

Good Housekeeping:

The following good housekeeping practices will be followed on site during the construction project:

- An effort will be made to store on site only enough product required to do the job.
- All materials stored on site will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with original manufacturer's label.
- Substances will not be mixed with another unless recommended by the manufacturer.

- The site superintendent will inspect daily to ensure proper use and disposal of materials on site.

- Whenever possible, all of a product will be used up before disposing of the container.

- Manufacturer's recommendations for proper use and disposal will be followed.

Hazardous Products:

These practices will be used to reduce the risk of spills and releases associated with hazardous materials:

- Products will be kept in original containers unless they are not re-sealable.

- Original labels and SDS will be retained.

- If surplus product must be disposed of, manufacturer's or local and State recommended methods for proper disposal will be followed.

- Manufacturer's recommendations for proper use and disposal will be followed.

Spill Control Practices:

In addition to the good housekeeping and material management practices discussed above, the following practices will be followed for spill prevention and clean-up:

- Manufacturer's recommended methods for spill clean-up will be clearly posted and site personnel will be made aware of the procedures and location of the information and clean-up supplies.

- Materials and equipment necessary for spill clean-up will be kept in the material storage area on site. Equipment and materials will include (but not be limited to) brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

- All spills will be cleaned up immediately after discovery.

- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with hazardous substance(s).

- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of size.

- The spill prevention plan will be adjusted to include measures to prevent this type of spill from recurring and how to clean-up the spill if there is one. A description of the spill, what caused it, and the clean-up measures will also be included.

- The Contractor shall be responsible for day-to-day operations and shall designate a Spill Prevention and Clean-up Coordinator (Coordinator). The Coordinator will designate at least two (2) other site personnel who will receive spill prevention and clean-up training. These individuals will each become responsible for a particular phase of prevention and clean-up. The names of responsible spill personnel, listed below, will be posted in the material storage area and in the office trailer on site.

Spill Prevention and Clean-up Coordinator:

Chris Naulty	Judlau Contracting, Inc.
Printed Name	Contractor

Additional Trained Spill Prevention and Response Personnel:

John Carroll	Judlau Contracting, Inc.
Printed Name	Contractor

Hector Gonzalez	Judlau Contracting, Inc.
Printed Name	Contractor

9. **Contractor Required Submittals.**

The Contractor and any subcontractor responsible for compliance with the provisions of the SWPPP shall provide, as an attachment to their signed Contractor Certification Statement, a narrative description of how they will comply with the requirements of the SWPPP with regard to the following items:

- Vehicle Entrance and Exits: Identify the location(s) of stabilized construction entrances and exits to be used and provide a description of how they will be maintained. Indicate if any changes to the suggested locations (if any) shown on the plans are proposed.

- Material Delivery, Storage, and Use: Discuss where and how materials including chemicals, concrete curing compounds, petroleum products, etc. will be stored to prevent spills.

- Solid Waste Management and Disposal: Discuss the procedures to be used to contain, and the method of disposal for construction waste and litter.

- Sanitary Waste: Discuss how sanitary wastes will be contained and disposed along with the locations of portable restroom facilities. A schedule of maintenance shall be provided.

- Spill Response and Control: Provide a Spill Prevention and Control Plan describing the steps that will be taken to respond to, control, and report chemical or petroleum spills which may occur. Procedures to address spills in excess of Resource Conservation and Recovery Act (RCRA) reportable quantities must be provided.

- Concrete Residuals and Washout Wastes: Discuss the location and type of concrete washout facilities to be used on this project and how they will be identified and maintained.

- Vehicle and Equipment Cleaning and Maintenance: Discuss where vehicle and equipment cleaning and maintenance will be performed and the BMPs that will be used for spill containment and spill prevention, and containment and treatment of wash waters.

- Dewatering: Provide a Dewatering Work Plan for excavation activities that encounter groundwater or other water that needs to be removed from the construction area. The plan must detail a system that will remove sediments and other pollutants (if present) from the water prior to

discharge. The plan shall be submitted and approved prior to the commencement of dewatering activities.

- Polymer Use: If the use of polymers or other treatment chemicals are specified for use, a Polymer Treatment Work Plan shall be submitted for approval to the Engineer, covering the use of all polymer flocculants or treatment chemicals at the site. Dosage of treatment chemicals shall be identified, SDS shall be provided, procedures for storage and use of the treatment chemical must be described, and staff responsible for use/application must be identified. Documentation of training for the individuals who will be applying the polymers/treatment chemicals shall be provided. The polymer treatment system must be designed by a Certified Professional in Erosion and Sediment Control (CPESC).

In addition to the above, Contractor is required to provide the following submittals to demonstrate compliance with the Illinois Tollway Supplemental Specifications and any federal or state environmental permits.

- Erosion and Sediment Control Schedule pursuant to Article 280.02 of the Illinois Tollway Supplemental Specifications. The schedule shall be submitted and approved prior to commencement of earth disturbing work activities.

- Dust Control Plan pursuant to Article 107.36 of the Illinois Tollway Supplemental Specifications. The plan shall be submitted and approved prior to commencement of earth disturbing work activities.

- Proposed Borrow, Use, and Waste Area approval pursuant to Article 107.22 of the Illinois Tollway Supplemental Specifications. The Contractor shall provide a written request to the Engineer using an A-50 Form for any proposed alternative use of the Illinois Tollway right-of-way. The A-50 Form shall be approved prior to any such use by the Contractor and approval of such requests shall not be assumed.

- A Wetland Work Plan that meets the requirements of the USACE pursuant to the conditions of the Section 404 permit (issued by the USACE). The Wetland Work Plan shall include construction plans and a detailed narrative. The Wetland Work Plan shall be submitted by the Contractor and approved by the Engineer prior to the commencement of any work subject to the Section 404 permit. Additionally, a pre-activity meeting shall be held with the Engineer and Tollway Environmental Unit to discuss the Contractor's means and methods.

- A Detention Basin Work Plan must be submitted and approved by the Engineer prior to performing any construction-related activities within the proposed detention basin at approximate I-490 Ramp S1 STA 298+50 to STA 305+00 and Ramp S2 STA 433+00 to STA 439+00. The Detention Basin Work Plan shall include (at a minimum): the intended use of the area; anticipated sequence of construction activities (including duration); subgrade stabilization means and methods (if necessary, based on construction method); and a Dewatering Plan.

  At a minimum, the detention basin Dewatering Plans must include the following:

  - Detention Basin work area per the Pond Dewatering Location 1 Special Provision; this Dewatering Plan shall include an In-line Flocculation System Maintenance Plan (as necessary)
  - I-490 Ramp S1 and Ramp S2 pier cofferdams per the proposed structure plans for Bridge Numbers 1658 and 1659.

ILLINOIS TOLLWAY CERTIFICATION STATEMENT

This certification statement is a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR10, issued by the Illinois Environmental Protection Agency.

Project Information:

Route: Tri-State Tollway and Elgin O'Hare West Access Tollway, Ramp S1 and Ramp S2

Marked: I-294 and I-490

Section: M.P. 35.04 to M.P. 36.70 (I-294) and
M.P. 00.00 to M.P. 00.25 (I-490, Ramp S1/S2) Project No.: I-17-4339

County: Cook

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Prepared By: Alfred Benesch & Company
DESIGN SECTION ENGINEER

By: Ryan M. Thady, P.E. / Project Manager
Name/Title

Dated: 09/10/2020

OWNER: ILLINOIS STATE TOLL HIGHWAY AUTHORITY

Signed: Environmental Planner
Name/Title

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR10, issued by the Illinois Environmental Protection Agency.

Project Information:

Route: Tri-State Tollway and Elgin O'Hare West Access Tollway, Ramp S1 and Ramp S2

Marked: I-294 and I-490

Section: M.P. 35.04 to M.P. 36.70 (I-294) and M.P. 00.00 to M.P. 00.25 (I-490, Ramp S1/S2) Project No.: I-17-4339

County: Cook

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit No. ILR10 that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification: That I agree to comply therewith; and that I will ensure that all Subcontractors working on the subject project understand and comply with said permit.

7/9/2020

Signature Date

Revised 9/8/2020 per EXP direction to include changes from ISU 1.

Project Manager

Title

9/8/2020

Judlau Contracting, Inc.

Name of Firm

1011 Warrenville Road, Suite 195

Street Address

Lisle, IL 60532

City State Zip Code

630-387-6084

Telephone Number

ATTACHMENT X

Note: CONTRACTOR TO COMPLETE

Prepare additional signature pages as needed if the responsibilities of the Storm Water Pollution Prevention Plan are split between contractors. Specify which item(s) these sub-contractors assume responsibility for.

EROSION AND SEDIMENT CONTROL SUPPLEMENTAL GENERAL NOTES

1. FOR EROSION AND SEDIMENT CONTROL GENERAL NOTES SEE STANDARD 81 DRAWINGS.

2. THE CONTRACTOR SHALL SUBMIT THE SUBMITTAL ITEMS SPECIFIED IN S.P. 111.2. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WHICH SHALL BE INCORPORATED INTO AND BECOME PART OF THE SWPPP.

3. THE CONTRACTOR SHALL REFER TO SECTION 280.02 OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS FOR PENALTIES FOR NON-CONFORMANCE.

4. EROSION AND SEDIMENT CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ENSURE THAT SOIL EROSION AND SEDIMENT CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED TO CONTROL OFF-SITE SEDIMENT DISCHARGES.

5. THE EROSION AND SEDIMENT CONTROLS SHOWN IN THE PLANS REPRESENT THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED BY THE ENGINEER OR REPRESENTATIVES OF REGULATORY OR PERMITTING AGENCIES. ANY EMERGENCY CONTROL MEASURES REQUESTED BY A REGULATORY OR PERMITTING AGENCY MUST BE INSTALLED IMMEDIATELY.

6. THE CONTRACTOR SHALL INSTALL INITIAL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO BEGINNING ANY ACTIVITIES WHICH WILL POTENTIALLY CAUSE ERODIBLE CONDITIONS.

7. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, EFFECTIVE, AND MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SHUTDOWN PERIODS.

8. SHOULD IT BE NECESSARY TO REMOVE ANY EROSION OR SEDIMENT CONTROLS FOR CONSTRUCTION REASONS, THE CONTRACTOR SHALL FIRST OBTAIN PERMISSION FROM THE ENGINEER AND SHALL REPAIR OR REPLACE THE REMOVED CONTROLS THE SAME DAY. THE COST OF REMOVING AND RE-INSTALLING THE DEVICE SHALL BE INCLUDED IN THE CONTRACT.

9. THE CONTRACTOR SHALL CONFINE CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. AREAS OUTSIDE THE SHOWN CONSTRUCTION LIMITS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED AND STABILIZED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

10. TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY DEVIATION FROM THE EROSION CONTROL/TEMP DRAINAGE PLAN OR SCHEDULE SHALL BE AT THE DISCRETION OF THE ENGINEER AND NOTED IN THE SWPPP.

11. IN CASE OF CONFLICT BETWEEN THE EROSION CONTROL/TEMP DRAINAGE PLAN, PLAN QUANTITIES, OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND RECEIVE CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

12. UNLESS OTHERWISE INDICATED, ALL STABILIZATION AND STRUCTURAL PRACTICES AND OTHER CONTROL MEASURES SPECIFIED IN THE SWPPP SHALL BE CONSTRUCTED ACCORDING TO THE MINIMUM STANDARDS OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS AND THE ILLINOIS URBAN MANUAL (LATEST EDITION).

13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ANY SUBCONTRACTORS WHO PERFORM WORK ON THE PROJECT OF THE REQUIREMENTS OF THE SWPPP AND ILR10 PERMIT ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.

14. THE CONTRACTOR SHALL UTILIZE THE MAINTENANCE GUIDELINES OUTLINED IN THE SWPPP TO ENSURE GOOD AND EFFECTIVE OPERATING CONDITIONS OF THE MEASURES TO PROTECT STORMWATER QUALITY ON THE PROJECT.

15. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT DISTURBED AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR EROSION CONTROL. AREAS TO BE WORKED AND DISTURBED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE TEMPORARY STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET.

16. TEMPORARY STABILIZATION MEASURES SHALL BE PROVIDED AT INACTIVE DISTURBED AREAS THAT CANNOT BE STABILIZED WITH PERMANENT VEGETATIVE MEASURES UNTIL A LATER DATE. THE ENGINEER MAY REQUIRE THAT CRITICAL LOCATIONS BE STABILIZED IMMEDIATELY, AND THE CONTRACTOR SHALL IMPLEMENT TEMPORARY STABILIZATION MEASURES TO THESE AREAS WITHIN 24 HOURS OF SUCH DIRECTIVE, PURSUANT TO ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATION ARTICLE 280.15(C), TO ESTABLISH TEMPORARY COVER.

17. THE PERMANENT VEGETATION PLAN SHALL BE USED ON ALL DISTURBED AREAS WHENEVER POSSIBLE. A QUANTITY FOR ITEM 25100127 MULCH METHOD 3A, ITEM 28000250 TEMPORARY EROSION CONTROL SEEDING, AND ITEM 28001100 TEMPORARY EROSION CONTROL BLANKET HAS ALSO BEEN PROVIDED FOR TEMPORARY STABILIZATION OF ANTICIPATED DISTURBED AREAS. DUE TO THE VICINITY OF THE PROJECT TO O'HARE INTERNATIONAL AIRPORT, TEMPORARY EROSION CONTROL SEED SHALL CONSIST OF 100% ANNUAL RYEGRASS.

18. A NOMINAL QUANTITY FOR ITEM JS280151 SAME-DAY STABILIZATION HAS BEEN PROVIDED FOR USE AS DIRECTED BY THE CM TO STABILIZE EROSIVE PRONE AREAS OR CRITICAL DISTURBED AREAS WHERE THERE IS A RISK THAT SEDIMENT LADEN RUNOFF MAY ENTER SENSITIVE ENVIRONMENTAL AREAS.

19. PERMANENT LANDSCAPE ITEMS SHALL BE IMPLEMENTED IN CONJUNCTION WITH CONSTRUCTION STAGING. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY STABILIZED AT ONE TIME.

20. THE CONTRACTOR SHALL TREAT DISTURBED AND OTHER PROJECT AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH AREAS AS DIRECTED BY THE ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED FOR THIS PURPOSE. DUST SHALL BE CONTROLLED THROUGH A UNIFORM APPLICATION OF SPRAYED WATER IN A MANNER MEETING ENGINEER APPROVAL AND IN ACCORDANCE WITH THE CONTRACTOR'S DUST CONTROL PLAN SUBMITTED IN ACCORDANCE WITH ARTICLE 107.36 OF THE TOLLWAY SUPPLEMENTAL SPECIFICATIONS. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED ON FIELD AND WEATHER CONDITIONS.

21. STAGING AREA/TEMPORARY SOIL STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO TOPSOIL REMOVAL OR OTHER GRADING OPERATIONS BEING PERFORMED.

22. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM SEWERS, DITCHES, AND WATERCOURSES FROM CONTAMINATION BY WATERBORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, DETERGENTS, LUBRICANTS, OR OTHER TOXIC OR HAZARDOUS POLLUTANTS ORIGINATING FROM ANY WORK DONE ON OR IN SUPPORT OF THE PROJECT.

23. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ON PUBLIC RIGHT-OF-WAY OR STREETS. THE LOCATIONS OF ALL STABILIZED CONSTRUCTION ENTRANCES ARE SUBJECT TO APPROVAL BY THE ENGINEER. SUGGESTED OR POTENTIAL LOCATIONS ARE SHOWN ON THE PLANS.

24. A NOMINAL QUANTITY FOR ITEM JS280070 STABILIZED CONSTRUCTION ENTRANCE HAS BEEN PROVIDED FOR INSTALLING AND MAINTAINING ENTRANCES SUBJECT TO APPROVAL BY THE ENGINEER.

25. A NOMINAL QUANTITY FOR ITEM JS280051 RE-ERECT SILT FENCE HAS BEEN PROVIDED. RE-ERECTION OF SILT FENCE SHALL BE AS APPROVED AND DIRECTED BY THE ENGINEER.

26. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES OTHER THAN THOSE INDICATED ON THE PLANS (INCLUDING BUT NOT LIMITED TO ADDITIONAL PHASES OF THE DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS), A SUPPLEMENTAL EROSION AND SEDIMENT CONTROL PLAN SHALL BE SUBMITTED TO THE TOLLWAY.

27. STORM WATER RUNOFF LEAVING THE PROJECT SITE MUST PASS THROUGH AN EROSION AND SEDIMENT CONTROL MEASURE AS SHOWN ON THE PLANS OR AS AMENDED AND APPROVED BY THE ENGINEER.

28. ALL FLOWS ORIGINATING OFFSITE AND ENTERING THE CONSTRUCTION SITE SHALL BE DIVERTED AROUND DISTURBED AREAS OR SHALL BE CONVEYED THROUGH THE CONSTRUCTION SITE IN A NON-EROSIVE MANNER. THE CONTRACTOR SHALL MINIMIZE THE MIXING OF UNTREATED STORM WATER RUNOFF (FROM DISTURBED AREAS) WITH FLOWS ORIGINATING OFFSITE.

29. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH AN APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP/BASIN PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.

30. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE ENGINEER, ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND DISTURBED AREAS ARE PERMANENTLY STABILIZED.

IN-STREAM AND STREAMSIDE NOTES

1. NO WORK IN FLOWING WATER

   NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR CRITICAL AREAS SHALL BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THE AREA BEGINS, PRIORITY SHALL BE GIVEN TO COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

2. ISOLATED WORK AREA

   ALL DISTURBED AREAS AND WORK AREAS MUST BE ISOLATED FROM WATERWAY FLOWS AT ALL TIMES. THE DIVERSION/ISOLATION OF FLOW MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS. THE U.S. ARMY CORPS OF ENGINEERS (USACE) MUST BE IN AGREEMENT WITH THE OVERALL METHODS OF DIVERSION/ISOLATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

3. WORK IN (OR NEAR) WATERWAYS

   a. DURING WORK ON THE BANKS OF A CREEK/WETLAND, WORK MUST BE TIMED TO TAKE PLACE DURING LOW OR NO FLOW CONDITIONS.

   b. CONCENTRATED FLOW MUST BE ISOLATED FROM THE WORK AREA USING A NON-ERODIBLE COFFERDAM, STEEL SHEETS, AQUA BARRIERS, JERSEY BARRIERS, ETC. THE EXACT MEANS AND METHODS SHALL BE DISCUSSED DURING A SCHEDULED PRE-CONSTRUCTION IN-STREAM WORK MEETING. EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.

   c. THE IN-STREAM WORK PLAN SHALL BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE USACE HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE CONTRACTOR TO BE INFEASIBLE OR UNNECESSARY.

   d. COFFERDAMS MUST BE CONSTRUCTED FROM SHORE AND NO EQUIPMENT MAY ENTER FLOWING WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE, CONSTRUCTION OF A CAUSEWAY WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER FLOWING WATER. EQUIPMENT MAY ENTER THE COFFERED AREA ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED.

   e. IF BYPASS PUMPING IS NECESSARY, THE INLET OF THE PUMP SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NON-ERODIBLE ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE WATERWAY FLOW OR WETLAND. FILTERING OF BY-PASS WATER IS NOT REQUIRED UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF CONSTRUCTION ACTIVITIES.

   f. IF DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATER REMOVED FROM THE WORK AREA SHALL BE FILTERED USING FILTER BAGS OR AN ALTERNATE APPROVED MEASURE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE SOURCE CREEK/WETLAND. DISCHARGE FROM DEWATERING SHALL BE TO A STABLE SURFACE THAT EXTENDS TO THE POINT WHERE WATER RE-ENTERS THE WATERWAY. DISCHARGED WATER SHALL BE NO MORE TURBID THAN THE RECEIVING WATER. DISCHARGE SHALL BE IMMEDIATELY STOPPED IF RECEIVING WATERS SHOW EVIDENCE OF CLOUDY WATER, EROSION, OR SEDIMENT ACCUMULATION.

   g. THE SIDE SLOPES MUST BE RE-SEEDED AND STABILIZED WITH APPROPRIATE EROSION CONTROL MEASURES (I.E., PER THE APPROVED PLANS OR AT THE DIRECTION OF THE ENGINEER) PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF ANY CHANNELS MUST BE RESTORED TO ORIGINAL OR PROPOSED GRADE (SEE PLANS) AND STABLE ENOUGH TO ACCEPT FLOWS.

   h. AN IN-STREAM OR WETLAND WORK PLAN (INCLUDING A DEWATERING PLAN) MUST BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO THE START OF ANY WORK NEAR WETLANDS OR WATERS OF THE U.S. ADDITIONALLY, A PRE-ACTIVITY MEETING SHALL BE HELD WITH THE ENGINEER AND THE ILLINOIS TOLLWAY ENVIRONMENTAL UNIT TO DISCUSS THE CONTRACTOR'S MEANS AND METHODS.

WETLAND AND WATERS OF THE U.S. (WOUS) NOTES

1. THIS PROJECT REQUIRES PERMITS FROM THE U.S. ARMY CORPS OF ENGINEERS (USACE 404 PERMIT) AND THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA 401 WATER QUALITY CERTIFICATION). THE PERMIT APPLICATION WILL BE SUBMITTED TO THE USACE AND IEPA BY THE ILLINOIS TOLLWAY. THE CONTRACTOR SHALL NOT DISTURB OR OTHERWISE IMPACT JURISDICTIONAL WETLANDS OR WATERWAYS UNTIL BOTH OF THESE PERMITS ARE RECEIVED AND PROVIDED TO THE CONTRACTOR. NO REMOVALS, TEMPORARY OR PERMANENT CONSTRUCTION ACTIVITIES, OR OTHER WORK THAT WOULD IMPACT THESE RESOURCES IS ALLOWED UNTIL THESE PERMITS ARE OBTAINED.

2. WETLAND AND WATERS OF THE U.S. AREAS OUTSIDE OF THE WORK ZONE ARE TO BE AVOIDED. IF THE CONTRACTOR SHOULD ENCROACH UPON ANY WETLAND OR WATERS OF THE U.S. AREA THAT IS NOT WITHIN THE CONSTRUCTION LIMITS AND/OR PERMITTED FOR IMPACT THROUGH THE USACE, THE CONTRACTOR IS SUBJECT TO FINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY WETLAND OR WATERS OF THE U.S. IMPACTS OUTSIDE OF THE WORK ZONE. IMPACTED AREAS SHALL BE REPAIRED IMMEDIATELY BY THE CONTACTOR IN COORDINATION WITH AND TO THE SATISFACTION OF THE USACE.

3. APPLICABLE SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO PERFORMING ANY SITE DISTURBANCE ACTIVITIES IN AREAS THAT DRAIN TO WETLANDS OR WATERS OF THE U.S. "SUPER SILT FENCE" HAS BEEN PROVIDED IN THE CONTRACT QUANTITIES, TO BE UTILIZED AT ENVIRONMENTALLY SENSITIVE AREAS, AND AT LOCATIONS AS DIRECTED BY THE ENGINEER.

4. ALL IMPACTS TO WETLANDS, WATERS OF THE U.S., AND OPEN WATER DETENTION FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL BY RESOURCE AND REGULATORY AGENCIES. THOSE AGENCIES INCLUDE BUT ARE NOT LIMITED TO THE USACE, THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES, AND THE IEPA.

EROSION AND SEDIMENT CONTROL STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING SEDIMENT CONTROLS ARE TO BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN EACH MAINTENANCE OF TRFFIC (MOT) STAGE:

1. INSTALL APPLICABLE STABILIZED CONSTRUCTION ENTRANCES.
2. INSTALL PERIMETER SEDIMENT CONTROLS (E.G., SILT FENCE).
3. INSTALL INLET PROTECTION AT EXISTING STORM SEWER STRUCTURES THAT WILL RECEIVE RUNOFF FROM DISTURBED AREAS.

DURING CONSTRUCTION (ALL MOT STAGES)

1. THE WORK AREAS SHALL BE GRADED AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF AND/OR APPROPRIATE SEDIMENT CONTROL DEVICES SHALL BE INSTALLED TO TRAP SEDIMENT.
2. THE FOLLOWING SEDIMENT CONTROLS ARE TO BE INSTALLED DURING GRADING ACTIVITIES, RETAINING WALL CONSTRUCTION, INSTALLATION OF UTILITIES, AND ROADWAY/BRIDGE CONSTRUCTION:
   a. INSTALL TEMPORARY DITCH CHECKS IN AREAS OF CONCENTRATED FLOW IMMEDIATELY AFTER GRADING.
   b. PROTECT PROPOSED DRAINAGE STRUCTURES WITH INLET AND OUTLET PROTECTION IMMEDIATELY FOLLOWING THEIR CONSTRUCTION AND PRIOR TO RECEIVING RUNOFF FROM DISTURBED SOILS.
3. PAVEMENT SHALL BE SWEPT/CLEANED DAILY OR AS NECESSARY IN ACCORDANCE WITH THE TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
4. DUST SUPPRESSION SHALL BE APPLIED AS NECESSARY IN ACCORDANCE WITH THE TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
5. WITHIN 1 DAY OF COMPLETION OF CLEARING OR GRADING, OR WITHIN 14 DAYS OF LAST DISTURBANCE, THE FOLLOWING MEASURES SHALL BE TAKEN:
   a. PROVIDE TEMPORARY STABILIZATION (WITH MULCH OR EROSION CONTROL BLANKET AS SHOWN ON THE PLANS) OVER DISTURBED AREAS WHERE NO FURTHER WORK IS TO OCCUR FOR 14 DAYS OR LONGER, BUT CANNOT BE STABILIZED WITH PERMANENT VEGETATIVE MEASURES. THESE AREAS SHALL BE TREATED WITH PERMANENT VEGETATIVE COVER ONCE FINISHED GRADING HAS BEEN COMPLETED.

      STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 DAYS FROM THE INITITIATION OF STABILIZATION WORK IN AN AREA.
   b. PROVIDE PERMANENT SEEDING AS SHOWN ON THE LANDSCAPE AND FENCING PLAN PRIOR TO THE REMOVAL OF TEMPORARY SEDIMENT CONTROL MEASURES.
6. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REMOVED AFTER FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE LOCATED UPSLOPE OF THE CONTROLS.

NOTE: COMMENCE CONSTRUCTION OF THE ROADWAY IMPROVEMENTS PER THE "SUGGESTED PROGRESS SCHEDULE" AND THE "MAINTENANCE OF TRAFFIC SUGGESTED SEQUENCE OF CONSTRUCTION". SOME OF THE CONSTRUCTION ACTIVITIES DESCRIBED BELOW MAY BE COMPLETED CONCURRENTLY.

THE CONTRACTOR SHALL REFER TO S.P. 111 FOR REQUIRED DOCUMENTS/WORK PLANS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION ACTIVITIES. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. A DUST CONTROL PLAN;
2. A WETLAND WORK PLAN (WETLAND IMPACTS ARE ANTICIPATED TO OCCUR DURING STAGE 3 AT APPROXIMATE STA. 1895+00 TO STA. 1897+30);
3. A DETENTION BASIN WORK PLAN (CONSTRUCTION-RELATED ACTIVITIES WITHIN THE PROPOSED DETENTION BASIN AT I-490 RAMP S1 [APPROXIMATE STA. 298+50 TO STA. 305+00] AND RAMP S2 [APPROXIMATE STA. 433+00 TO STA. 439+00] ARE ANTICIPATED TO COMMENCE DURING PRE-STAGE B);
4. DEWATERING PLANS (AS REQUIRED BY THE DETENTION BASIN WORK PLAN - REFER TO S.P. 111 FOR ADDITIONAL INFORMATION).

PRE-STAGE A

RE-CONSTRUCT THE NORTHBOUND I-294 EXISTING OUTSIDE SHOULDER. RE-CONSTRUCT AND WIDEN THE SOUTHBOUND I-294 EXISTING OUTSIDE SHOULDER. ESTABLISH THE CONTRACTOR STAGING/ TOPSOIL STOCKPILE AREA.

DIG JACK AND BORE PITS AND PLACE MACHINES. JACK AND BORE THE PROPOSED WATER MAIN AND CASING UNDER I-294 NEAR GARNET DRIVE; THE PROPOSED VILLAGE OF FRANKLIN PARK WATER MAIN AND SANITARY SEWER UNDER THE UPRR ADJACENT TO SOUTHBOUND I-294; THE PROPOSED STORM SEWER UNDER THE UPRR ADJACENT TO SOUTHBOUND I-294; AND THE PROPOSED STORM SEWER UNDER I-294 ADJACENT TO THE WEST SIDE OF THE UPRR. DEWATER THE WORK AREAS (AS NECESSARY) INTO A SEDIMENT FILTER BAG PRIOR TO OFF-SITE DISCHARGE. REMOVE RECEIVING AND LAUNCHING PITS IMMEDIATELY AFTER COMPLETION TO FACILITATE DRAINAGE. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

RELOCATE/CONSTRUCT PROPOSED STORM SEWERS AND INSTALL INLET PROTECTION. BEGIN CONSTRUCTION OF RETAINING WALL TS35.35R SB(R) AND ITS GANTRY FOUNDATION. START TO GRADE PROPOSED DITCHES AND INSTALL DITCH CHECKS, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

PRE-STAGE B

REMOVE THE EXISTING VILLAGE OF FRANKLIN PARK SANITARY SEWER AND WATER MAIN. CONTINUE TO CONSTRUCT PROPOSED STORM SEWERS AND INSTALL INLET AND OUTLET PROTECTION. OUTLET PROTECTION MUST BE INSTALLED PRIOR TO CULVERTS RECEIVING SURFACE RUNOFF FROM PAVED AREAS. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

CONTINUE CONSTRUCTION OF RETAINING WALL TS35.35R SB(R). CONSTRUCT PROPOSED STORM SEWERS AND INSTALL INLET PROTECTION. CONTINUE TO GRADE PROPOSED DITCHES AND INSTALL DITCH CHECKS, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

CONTINUE EXCAVATION/GRADING OF THE PROPOSED DETENTION BASIN AND CONSTRUCT THE I-490 RAMP S1 AND RAMP S2 NORTH EMBANKMENT (WHICH STARTED DURING CONTRACT I-17-4687). DEWATER THE WORK AREA, AS NECESSARY. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND DEWATERING ACTIVITIES IN THE PROPOSED DETENTION BASIN WITH THE ENGINEER AS PART OF THE DETENTION BASIN AND DEWATERING WORK PLANS.

COMMENCE CONSTRUCTION OF I-490 RAMP S1. BEGIN TO CONSTRUCT THE SOUTH APPROACH BENT, SOUTH ABUTMENT, AND PIERS 1-5. COMMENCE CONSTRUCTION OF I-490 RAMP S2, INCLUDING PIERS 5-8. TEMPORARY SOIL RETENTION SYSTEMS SHALL BE INSTALLED PER BRIDGE PLANS. STABILIZE THE DETENTION BASIN SUBGRADE AND INSTALL COFFERDAMS AT THE PROPOSED PIERS, AS NECESSARY TO PERFORM CONSTRUCTION ACTIVITIES IN THE DETENTION BASIN. DEWATER THE WORK AREA, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

STAGE 1

COMMENCE CONSTRUCTION OF THE PROPOSED OUTSIDE SHOULDER AND LANES OF SOUTHBOUND I-294, INCLUDING PORTIONS OF THE BRIDGES OVER GRAND AVENUE AND THE UPRR. CONSTRUCT RETAINING WALL TS35.10R SB. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON THE MOT PLANS. CONSTRUCT PROPOSED STORM SEWERS AND INSTALL INLET PROTECTION. CONTINUE TO GRADE PROPOSED DITCHES AND INSTALL DITCH CHECKS, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

CONTINUE CONSTRUCTION OF I-490 RAMP S1. COMPLETE THE SOUTH APPROACH BENT AND SOUTH ABUTMENT. CONTINUE TO CONSTRUCT PIERS 1-5. BEGIN TO CONSTRUCT THE NORTH ABUTMENT AND THE NORTH APPROACH BENT. CONTINUE CONSTRUCTION OF I-490 RAMP S2. COMPLETE PIERS 5-8. CONSTRUCT PIER 9, THE NORTH ABUTMENT, AND THE NORTH APPROACH BENT. DEWATER THE WORK AREA, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

STAGE 1A

CONSTRUCT THE TEMPORARY DRAINAGE SYSTEM AND ADDITIONAL LANES OF SOUTHBOUND I-294 AS SHOWN IN THE PLANS. ABANDON THE EXISTING DEEP DETENTION PIPES. WORK IS TO OCCUR IN AREAS OF EXISTING PAVEMENT.

CONTINUE CONSTRUCTION OF RAMP S1 AND RAMP S2. DEWATER THE WORK AREA, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

STAGE 2

CONTINUE CONSTRUCTION OF THE PROPOSED INSIDE LANES OF SOUTHBOUND I-294, INCLUDING THE SOUTHBOUND FLEX LANE AS SHOWN IN THE MOT PLANS. CONSTRUCT MEDIAN BARRIER AND MEDIAN RETAINING WALL. CONTINUE TO BUILD PORTIONS OF THE I-294 BRIDGES OVER GRAND AVENUE AND THE UPRR FOR THE MEDIAN AND SOUTHBOUND INSIDE LANES. CONSTRUCT PROPOSED STORM SEWERS AND INSTALL INLET PROTECTION.

COMPLETE CONSTRUCTION OF I-490 RAMP S1 PIERS 1-5, THE NORTH ABUTMENT, AND THE NORTH APPROACH BENT. BEGIN CONSTRUCTION OF THE SUPERSTRUCTURE. CONTINUE CONSTRUCTION OF I-490 RAMP S2. CONSTRUCT PIER 4. ERECT THE UNIT 1 GIRDERS FROM PIER 4 TO PIER 7. CONSTRUCT THE UNIT 2 SUPERSTRUCTURE. DEWATER THE WORK AREA, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

STAGE 2A

COMMENCE CONSTRUCTION OF THE PROPOSED NORTHBOUND I-294 INSIDE LANES, INCLUDING THE NORTHBOUND FLEX LANE AND TEMPORARY SOIL RETENTION SYSTEM AS SHOWN IN THE MOT PLANS. CONTINUE TO BUILD PORTIONS OF THE I-294 BRIDGES OVER GRAND AVENUE AND THE UPRR FOR THE NORTHBOUND INSIDE LANES. WORK TO OCCUR WITHIN AREAS OF EXISTING PAVEMENT.

CONTINUE CONSTRUCTION OF RAMP S1 AND RAMP S2. DEWATER THE WORK AREA, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.□

STAGE 3

BUILD RETAINING WALLS TS35.15R NB; TS35.35R NB(R); AND TS35.84R NB. GRADE PROPOSED DITCHES AND INSTALL DITCH CHECKS. COMMENCE CONSTRUCTION OF THE PROPOSED OUTSIDE SHOULDER AND LANES OF NORTHBOUND I-294. CONTINUE TO BUILD PORTIONS OF THE I-294 BRIDGES OVER GRAND AVENUE AND THE UPRR FOR THE REMAINING NORTHBOUND LANES. CONSTRUCT PROPOSED STORM SEWERS AND INSTALL INLET PROTECTION. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE ENGINEER AS PART OF THE WETLAND WORK PLAN. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

COMPLETE CONSTRUCTION OF THE I-490 RAMP S1 SUPERSTRUCTURE. CONTINUE CONSTRUCTION OF I-490 RAMP S2. CONSTRUCT THE SOUTH APPROACH BENT, THE SOUTH ABUTMENT, AND PIERS 1-3. COMPLETE THE UNIT 1 SUPERSTRUCTURE. DEWATER THE WORK AREA, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL.

STAGE 4

COMPLETE CONSTRUCTION OF I-490 RAMP S2, AS NECESSARY. DEWATER THE DETENTION BASIN WORK AREA, AS NECESSARY. STABILIZE ALL IDLE, DISTURBED SOILS WITH EROSION CONTROL. COMPLETE LANDSCAPING/FINAL STABILIZATION.

THE DETENTION BASIN WORK AREA DEWATERING BEST MANAGEMENT PRACTICES SHALL BE REMOVED AFTER THEY HAVE SERVED THEIR PURPOSE. FOLLOWING REMOVAL, THE DEWATERING AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE PLANS. STABILIZE ALL IDLE, DISTURBED SOILS. APPROPRIATE STAGE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

EROSION AND SEDIMENT CONTROL SCHEDULE

	STAGE	TEMPORARY FENCE	MULCH, METHOD 3A*	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY EROSION CONTROL BLANKET	STONE RIPRAP, CLASS A6	FILTER FABRIC***	APPLY DUST SUPPRESSION AGENTS	MANAGEMENT OF EROSION AND SEDIMENT CONTROL	EROSION AND SEDIMENT CONTROL - CLEANOUT	SILT FENCE	RE-ERECT SILT FENCE	STABILIZED CONSTRUCTION ENTRANCE**	SUPER SILT FENCE	TREE PROTECTION	TEMPORARY RIPRAP	TEMPORARY RIPRAP (CULVERT INLET PROTECTION - STONE)	TEMPORARY RIPRAP (TEMPORARY ROCK CHECK DAM)	SAME DAY STABILIZATION	RECTANGULAR INLET PROTECTION	FILTER FABRIC INLET PROTECTION, COVER TYPE	FILTER FABRIC INLET PROTECTION, BASKET TYPE	TEMPORARY DITCH CHECKS	SEDIMENT FILTER BAG	FLOC LOG	IN-LINE FLOCCULATION SYSTEM	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 ***	POND DEWATERING LOCATION A
		20101000	25100127	28000250	28001100	28100211	28200200	JS107361	JS280020	JS280040	JS280050	JS280051	JS280070	JS280100	JS280120	JS280140	JS280140	JS280140	JS280151	JS280180	JS280205	JS280210	JS280305	JT280500	JT280510	JT280530	JT285055	JT901136
SHEET NO.		FOOT	ACRE	POUND	SQ YD	TON	SQ YD	UNIT	CAL MO	CU YD	FOOT	FOOT	SQ YD	FOOT	FOOT	TON	TON	TON	SQ YD	EACH	EACH	EACH	FOOT	EACH	EACH	EACH	SQ YD	L SUM
EC-01	PRE-STAGE A	0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-02		0	1.09	55	634	0	0				742	186	312	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
EC-03		0	1.86	94	5,974	0	0				985	246	245	0	0	0	0	0	0	11	0	14	240	4	0	0	0	
EC-04		0	2.63	132	616	0	0				1,527	382	0	0	63	0	0	0	25,872	4	3	0	70	6	0	0	0	
EC-05		0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-06		0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-07		0	0.56	28	0	0	0				830	208	212	0	189	0	0	0	0	0	0	1	0	6	0	0	0	
EC-08	PRE-STAGE B	0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-09		0	1.09	55	492	0	0				0	0	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-10		0	1.83	92	5,974	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-11		473	3.35	168	616	0	0				0	0	178	0	0	0	0	0	25,872	0	0	0	0	0	0	0	0	
EC-12		0	0.00	0	0	0	0				0	0	0 [1]	0	0	0	0	0	0	0	0	0 [1]	0	0	0	0	0	
EC-13		0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-14		1677	12.40	621	2,084	324	594				497	124	1,032	1,085	0	0	0	0	0	0	1	7	200	16	40	2	346	
EC-15	STAGE 1	0	0.25	13	0	0	0				597	149	230	0	0	0	0	0	1,358	0	0	3	0	0	0	0	0	
EC-16		0	0.78	40	0	0	0				894	224	401	0	0	0	0	0	11,180	0	0	6	0	0	0	0	0	
EC-17		0	0.47	24	1,938	0	0				0	0	356	0	0	0	0	0	0	0	0	3	0	0	0	0	0	
EC-18		0	2.41	121	0	0	0				0	0	0	0	0	0	0	0	25,606	0	1	0	0	0	0	0	0	
EC-19		0	1.17	59	0	0	0				1,415	354	226	0	0	0	0	0	0	0	3	7	0	0	0	0	0	
EC-20		0	0.21	11	0	0	0				300	75	218	0	0	0	0	0	0	0	0	3	10	0	0	0	0	
EC-21		0	7.68	384	1,932	0	0				472	118	0	0	126	0	0	0	0	0	0	0	0	12	20	0	0	
EC-22	STAGE 1A	0	0.00	0	0	0	0				0	0	540	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-23		0	1.19	60	0	0	0				29	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-24		0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-25		0	0.00	0	0	0	0				0	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-26		0	7.58	379	1,932	0	0				75	19	0	0	0	0	0	0	0	0	0	0	0	12	20	0	0	
EC-27	STAGE 2	0	0.00	0	0	0	0				0	0	145	0	0	0	0	0	0	0	0	6	0	0	0	0	0	
EC-28		0	0.00	0	0	0	0				0	0	443	0	0	0	0	0	0	0	0	10	0	0	0	0	0	
EC-29		0	0.00	0	0	0	0				0	0	104	0	0	0	0	0	0	0	0	17	0	0	0	0	0	
EC-30		0	1.19	60	0	0	0				0	0	349	0	0	0	0	0	0	0	0	5	0	0	0	0	0	
EC-31		0	0.00	0	0	0	0				0	0	795	0	0	0	0	0	0	0	0	8	0	0	0	0	0	
EC-32		0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	
EC-33		0	7.58	379	1,932	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	12	20	0	0	
EC-34	STAGE 2A	0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-35		0	0.00	0	0	0	0				0	0	445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-36		0	0.00	0	0	0	0				0	0	445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-37		0	1.19	29	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-38		0	0.00	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-39		0	0.00	0	0	0	0				0	0	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-40		0	3.52	176	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	12	20	0	0	
EC-41	STAGE 3	0	0.00	0	820	0	0				592	148	145	0	0	0	0	0	5,740	0	0	5	0	0	0	0	0	
EC-42		0	0.29	15	2,924	0	0				1,266	317	178	0	0	0	0	0	18,375	3	0	9	60	0	0	0	0	
EC-43		0	0.70	35	1,519	0	0				1,239	310	540	0	0	0	0	0	0	1	0	21	60	0	0	0	0	
EC-44		0	3.48	175	2,747	0	0				1,446	362	0	229	0	0	34	0	0	0	1	6	122	0	0	0	10	
EC-45		0	0.94	47	1,615	0	0				1,369	342	281	0	0	0	39	0	0	0	1	8	0	0	0	0	0	
EC-46		0	0.13	7	699	0	0				314	79	317	0	0	0	0	0	0	0	0	2	10	0	0	0	0	
EC-47		0	3.52	176	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	12	20	0	0	
EC-48	STAGE 4	0	0.10	5	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-49		0	1.85	93	2,544	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-50		0	0.36	18	1,252	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EC-51		0	1.52	76	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	12	20	0	0	
CONTINGENCY		215	1.00	837	3102	0	0				1,134	283	1,620	131	63	1,722	55	10	8,813	1	1	13	1,140	9	16	0	0	
TOTAL		2,365	74.00	4,464	41,346	324	594	1,440	40	1,420	15,723	3,931	10,350	1,445	441	1,722	128	10	122,816	20	11	160	1,912	113	176	2	356	1

* THE TOTAL QUANTITY FOR MULCH, METHOD 3A WAS ROUNDED UP TO THE NEAREST 0.25 ACRE.

**ENTRANCE LOCATION ONLY A SUGGESTION. ACTUAL LOCATION ENTRANCE IS TO BE VERIFIED WITH FIELD ENGINEER PRIOR TO PLACING.

***ITEM INCLUDED ON MORE THAN ONE SCHEDULE

DRAWN BY MHAYES DATE 4/30/2020

CHECKED BY MANTAS DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

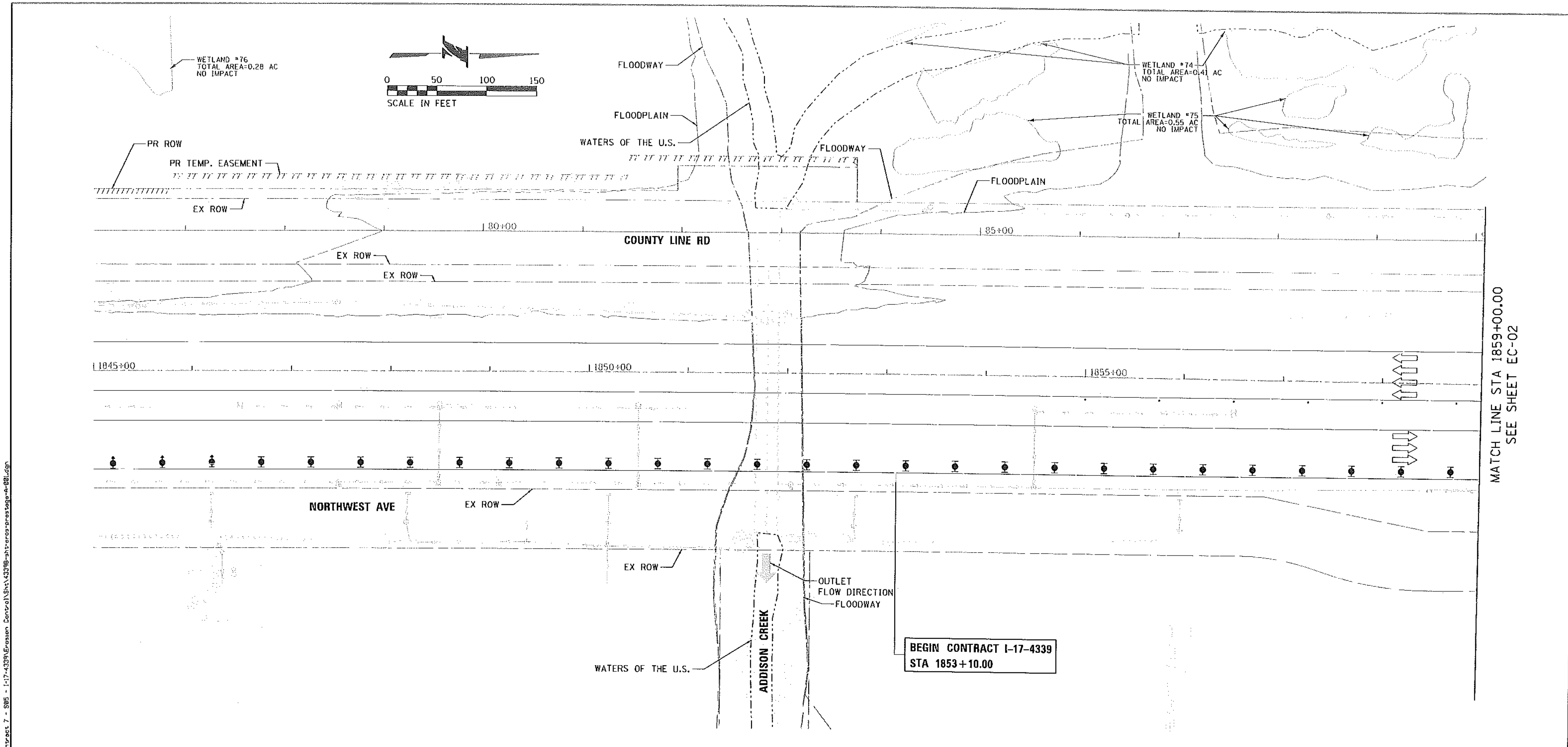
REVISIONS		
NO.	DATE	DESCRIPTION
1	9/4/2020	ISSUE NO 1

CONTRACT NO. I-17-4339

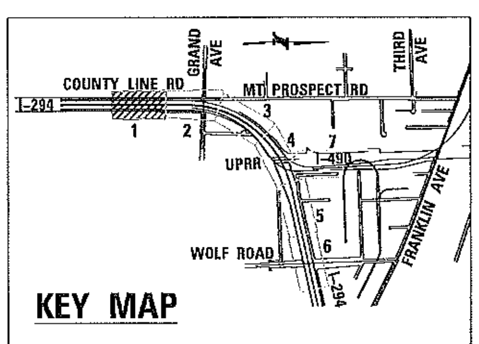
EROSION AND SEDIMENT CONTROL SCHEDULE

SHT NO. ES-01

DRAWING NO. 346 OF 1740



NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RECTANGULAR INLET PROTECTION (JS280180)
- FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE	4/30/2020
CHECKED BY MANTAS	DATE	4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

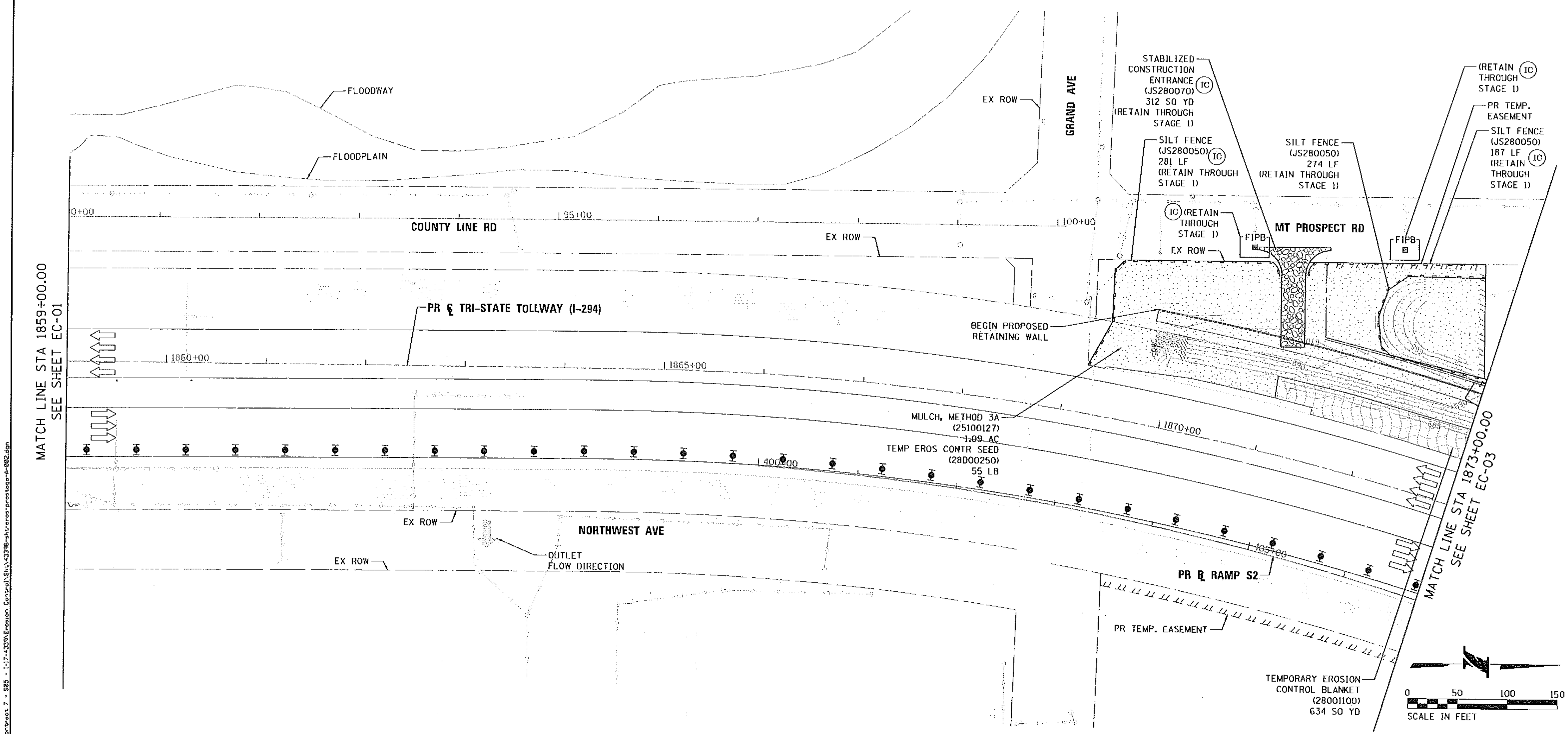
REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE A - STA 1845+00 TO 1859+00

SHT NO. EC-01

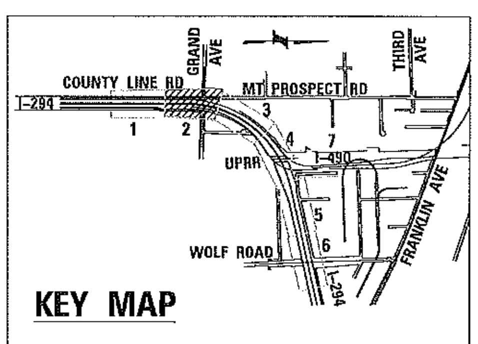
DRAWING NO. 347 OF 1740



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF — SUPER SILT FENCE (JS28D100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP — CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIPB — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC — FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC — INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP — TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx — TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.



KEY MAP

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

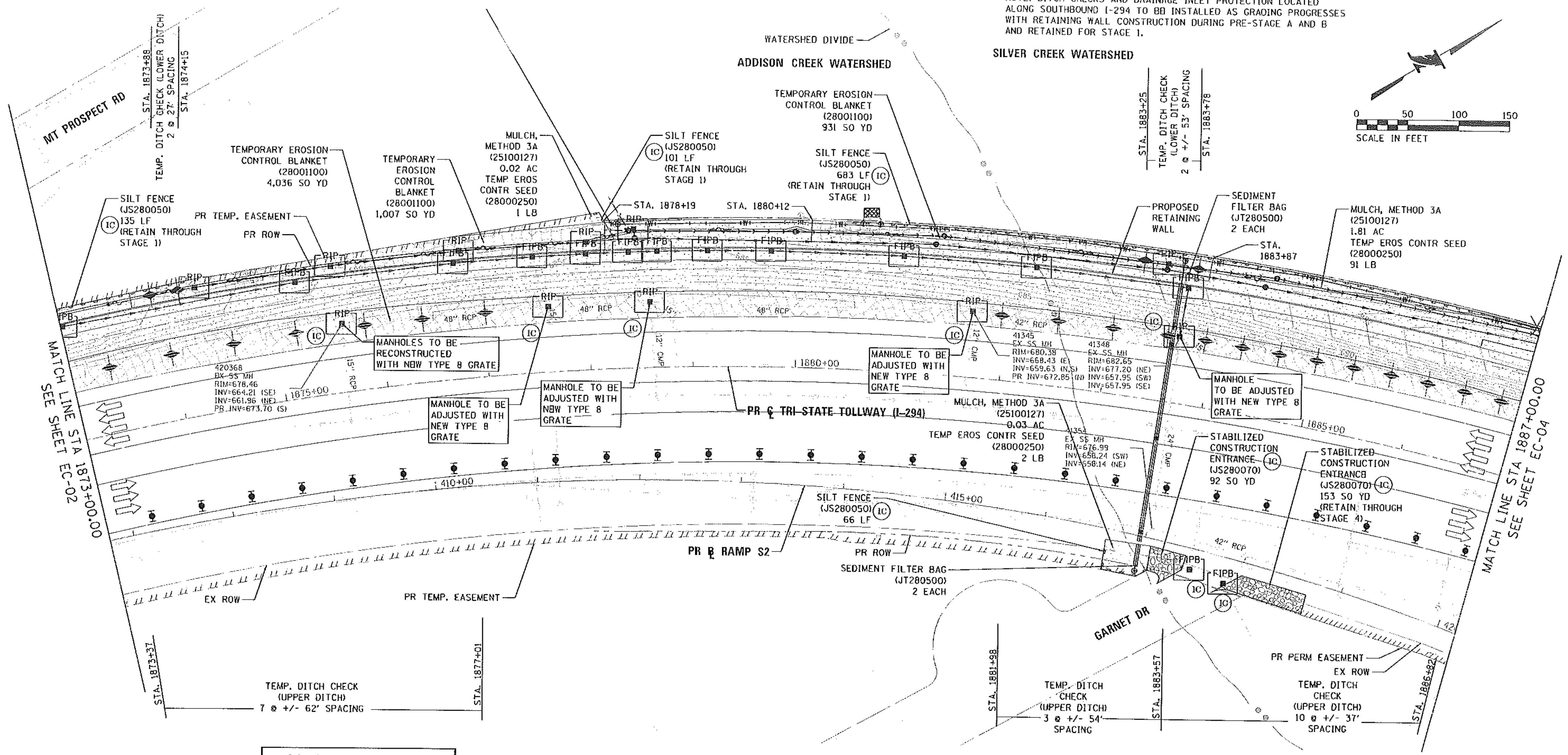
CONTRACT NO. I-17-4339

SHT NO. EC-02

EROSION CONTROL / TEMP DRAINAGE PLAN
PRE-STAGE A - STA 1859+00 TO 1873+00

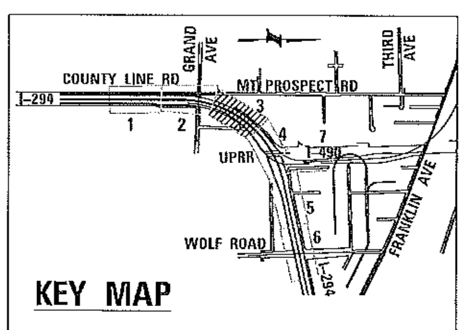
DRAWING NO. 348 OF 1740

NOTE: DITCH CHECKS AND DRAINAGE INLET PROTECTION LOCATED ALONG SOUTHBOUND I-294 TO BE INSTALLED AS GRADING PROGRESSES WITH RETAINING WALL CONSTRUCTION DURING PRE-STAGE A AND B AND RETAINED FOR STAGE 1.



MANHOLES TO BE ADJUSTED WITH NEW TYPE 8 GRATE (60256400)	
STATION	OFFSET
1877+61.00	64.50' LT
1878+59.00	64.20' LT
1881+68.00	64.60' LT
1883+68.00	65.30' LT
TOTAL	4

MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 8 GRATE (60258800)	
STATION	OFFSET
1875+61.00	67.00' LT
TOTAL	1



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

SHT NO. EC-03

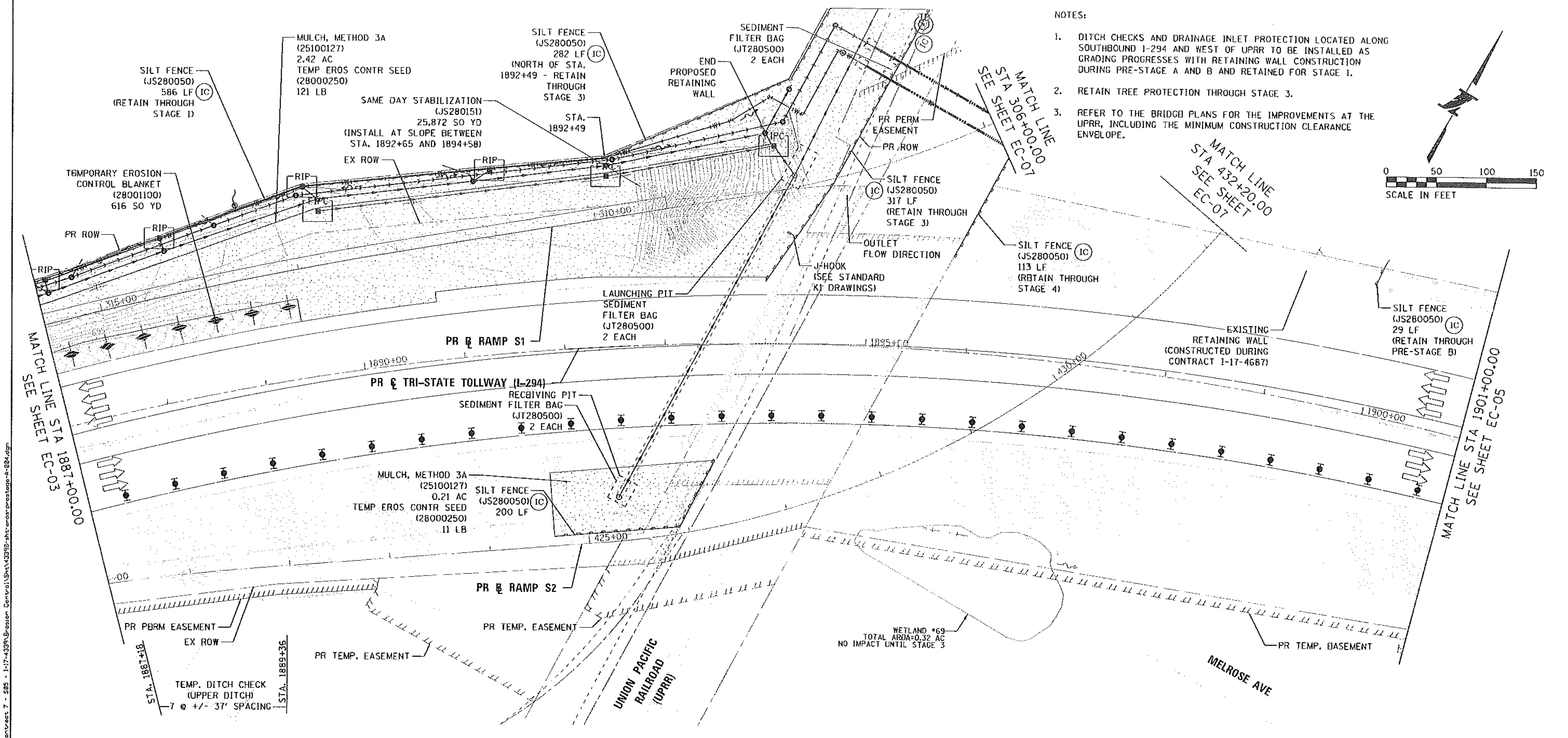
EROSION CONTROL/TEMP DRAINAGE PLAN
PRE-STAGE A - STA 1873+00 TO 1887+00

DRAWING NO. 349 OF 1740

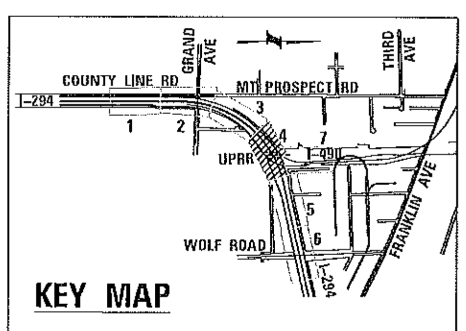
4339B-sht-eros-prestage-A-003.dgn
32326

NOTES:

1. DITCH CHECKS AND DRAINAGE INLET PROTECTION LOCATED ALONG SOUTHBOUND I-294 AND WEST OF UPRR TO BE INSTALLED AS GRADING PROGRESSES WITH RETAINING WALL CONSTRUCTION DURING PRE-STAGE A AND B AND RETAINED FOR STAGE 1.
2. RETAIN TREE PROTECTION THROUGH STAGE 3.
3. REFER TO THE BRIDGE PLANS FOR THE IMPROVEMENTS AT THE UPRR, INCLUDING THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.



SILT FENCE (JS280050) 586 LF (IC) (RETAIN THROUGH STAGE 1)
MULCH, METHOD 3A (25100127) 2.42 AC TEMP EROS CONTR SEED (28000250) 121 LB
SILT FENCE (JS280050) 282 LF (IC) (NORTH OF STA. 1892+49 - RETAIN THROUGH STAGE 3)
SEDIMENT FILTER BAG (JT280500) 2 EACH
END PROPOSED RETAINING WALL
SAME DAY STABILIZATION (JS280151) 25,872 SQ YD (INSTALL AT SLOPE BETWEEN STA. 1892+65 AND 1894+58)
STA. 1892+49
EX ROW
TEMPORARY EROSION CONTROL BLANKET (28001100) 616 SQ YD
PR ROW
RIP
PR PERM EASEMENT
PR ROW
SILT FENCE (IC) (JS280050) 317 LF (RETAIN THROUGH STAGE 3)
OUTLET FLOW DIRECTION
J-HOOK (SEE STANDARD K1 DRAWINGS)
SILT FENCE (IC) (JS280050) 113 LF (RETAIN THROUGH STAGE 4)
MATCH LINE STA 306+00.00 SEE SHEET EC-07
MATCH LINE STA 432+20.00 SEE SHEET EC-07
0 50 100 150
SCALE IN FEET
LAUNCHING PIT SEDIMENT FILTER BAG (JT280500) 2 EACH
PR ℄ RAMP S1
EXISTING RETAINING WALL (CONSTRUCTED DURING CONTRACT I-17-4687)
SILT FENCE (JS280050) (IC) 29 LF (RETAIN THROUGH PRE-STAGE B)
PR ℄ TRI-STATE TOLLWAY (I-294)
RECEIVING PIT SEDIMENT FILTER BAG (JT280500) 2 EACH
MATCH LINE STA 1887+00.00 SEE SHEET EC-03
MATCH LINE STA 1901+00.00 SEE SHEET EC-05
MULCH, METHOD 3A (25100127) 0.21 AC TEMP EROS CONTR SEED (28000250) 11 LB
SILT FENCE (JS280050) (IC) 200 LF
310+00
315+00
1890+00
1895+00
1900+00
430+00
425+00
PR ℄ RAMP S2
PR PERM EASEMENT
EX ROW
PR TEMP. EASEMENT
PR TEMP. EASEMENT
WETLAND #69 TOTAL AREA=0.32 AC NO IMPACT UNTIL STAGE 3
PR TEMP. EASEMENT
MELROSE AVE
UNION PACIFIC RAILROAD (UPRR)
STA. 1887+18
STA. 1889+36
TEMP. DITCH CHECK (UPPER DITCH) 7 @ +/- 37' SPACING



KEY MAP

EROSION CONTROL LEGEND

CONSTRUCTION WORK ZONE	
TEMPORARY PAVEMENT	
TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE	
PREVIOUSLY COMPLETED CONSTRUCTION	
DIRECTION OF TRAFFIC	
MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)	
TEMPORARY EROSION CONTROL BLANKET (28001100)	
SILT FENCE (JS280050)	
SSF: SUPER SILT FENCE (JS280100)	
DRAINAGE REMOVAL	
STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)	
CIP: CULVERT INLET PROTECTION-STONE (JS280140)	
STABILIZED CONSTRUCTION ENTRANCE (JS280070)	
PROPOSED DRAINAGE PATH	
ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)	
RIP: RECTANGULAR INLET PROTECTION (JS280180)	
FIPB: FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)	
FIPC: FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)	
WETLAND/WATERS OF THE U.S. PERMANENT IMPACT	
WETLANDS	
IC: INITIAL CONSTRUCTION ITEM	
PRESERVED TREE	
TP: TREE PROTECTION (JS280120)	
TEMPORARY DITCH CHECKS (JS280305)	
TEMPORARY FENCE (20101000)	

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

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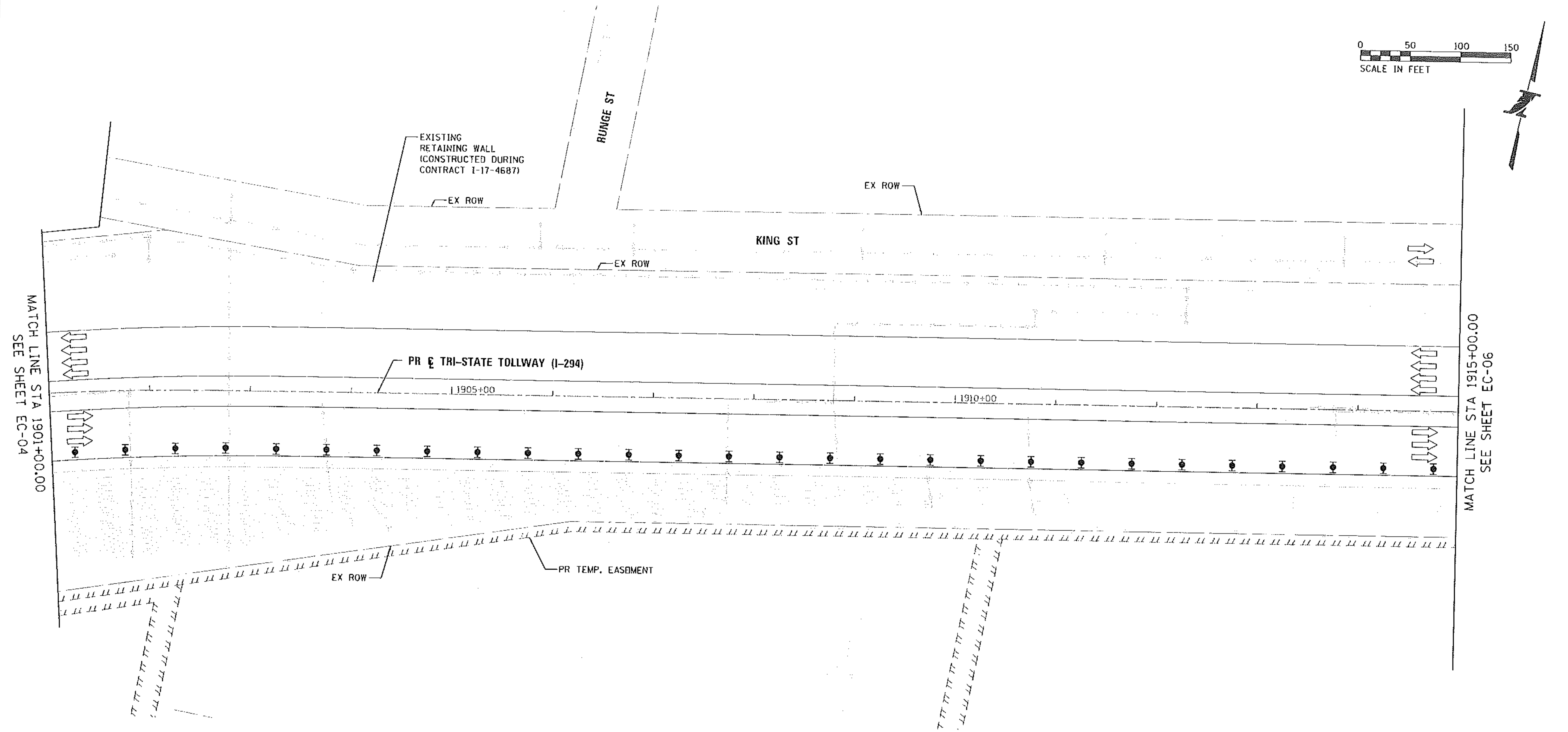
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339 | SHT NO. EC-04

EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE A - STA 1887+00 TO 1901+00

DRAWING NO. 350 OF 1740

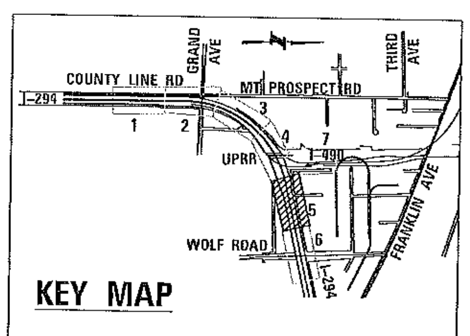


NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP - CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP - RECTANGULAR INLET PROTECTION (JS280180)
- FIPB - FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC - FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC - INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP - TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.



KEY MAP

DRAWN BY MHAYES DATE 4/30/2020

CHECKED BY MANTAS DATE 4/30/2020

4339B-sht-eros-prestage-A-005.dgn
32326

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2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

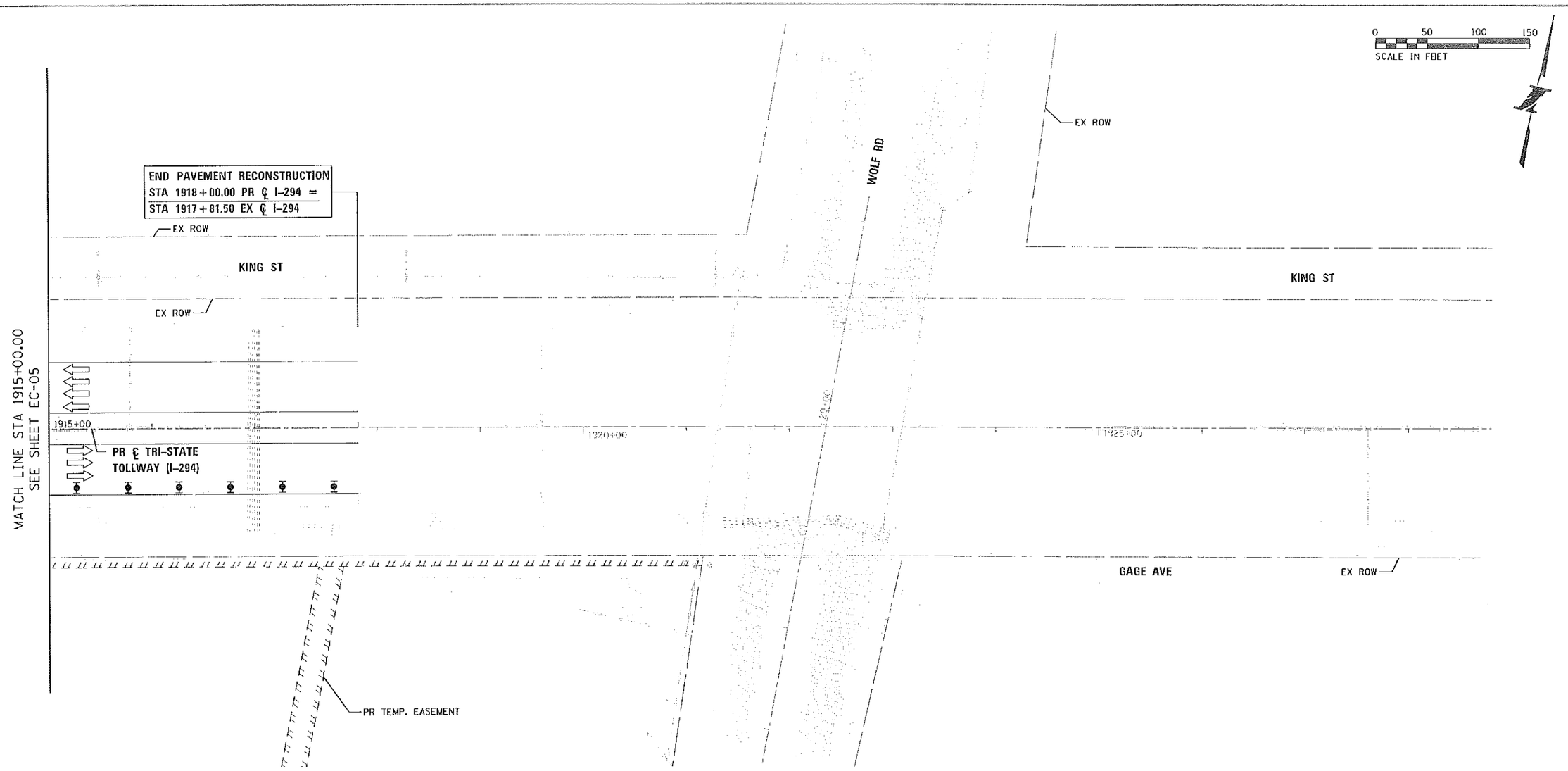
REVISIONS		
NO.	DATE	DESCRIPTION

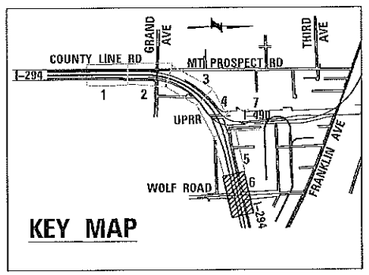
CONTRACT NO. I-17-4339

SHT NO. EC-05

EROSION CONTROL / TEMP DRAINAGE PLAN
PRE-STAGE A – STA 1901+00 TO 1915+00

DRAWING NO. 351 OF 1740





NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127)
  TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211)
  TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK
  REVETMENT SYSTEM, TYPE I (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S.
  PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

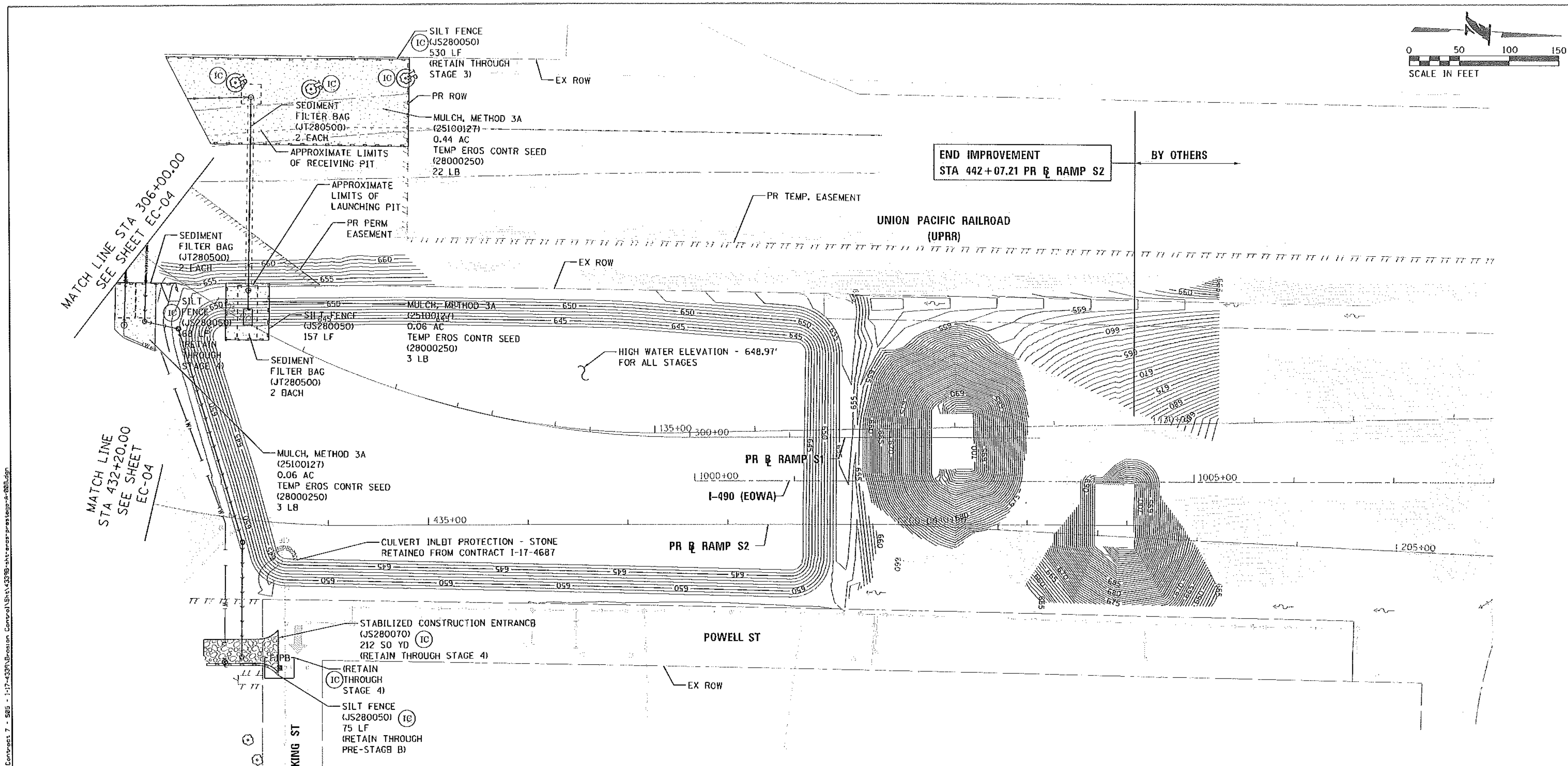
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE A - STA 1915+00 TO 1929+00

SHT NO. EC-06

DRAWING NO. 352 OF 1740

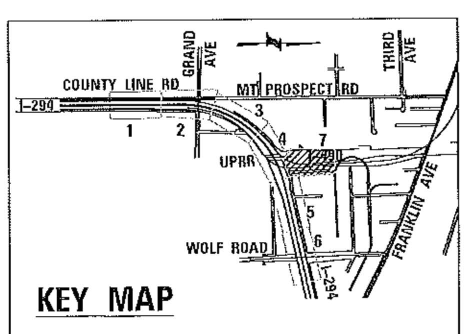
43398-sht-eros-prestage-A-008.dgn
32306



NOTES:

1. DUE TO POTENTIAL STANDING WATER AND SATURATED SOIL CONDITIONS, THE DETENTION BASIN AREA MAY NOT BE SUITABLE FOR EQUIPMENT STAGING/MATERIAL STORAGE. THE CONTRACTOR MUST SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CONSTRUCTION-RELATED ACTIVITIES WITHIN THE DETENTION BASIN. THE DETENTION BASIN WORK PLAN SHALL INCLUDE (AT A MINIMUM): THE INTENDED USE OF THE AREA; ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES (INCLUDING DURATION); SUBGRADE STABILIZATION MEANS AND METHODS (IF NECESSARY, BASED ON CONSTRUCTION METHOD); AND A DEWATERING PLAN.

2. RETAIN TREE PROTECTION THROUGH STAGE 2.



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP: CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP: RECTANGULAR INLET PROTECTION (JS280180)
- FIPB: FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC: FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC: INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP: TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

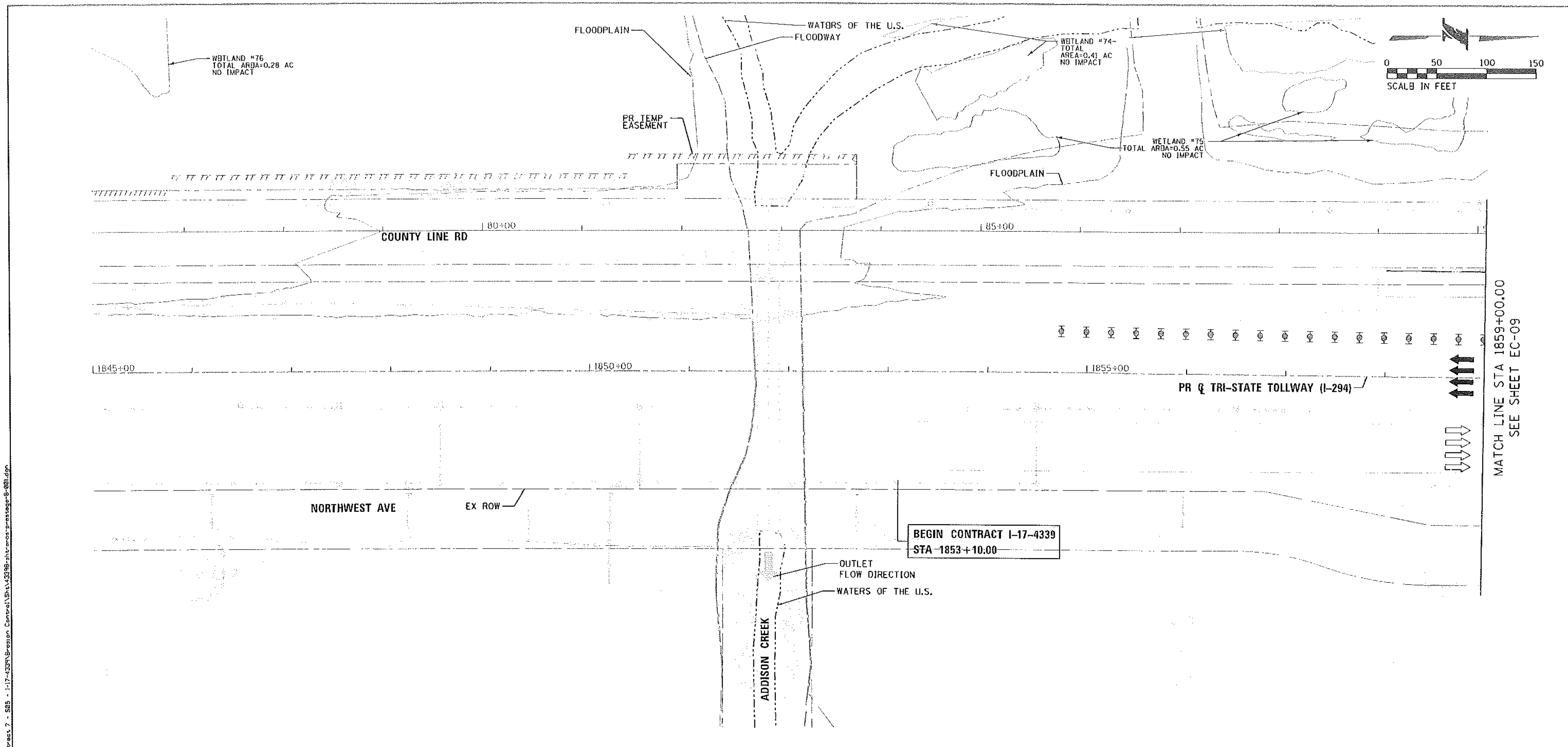
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE A - STA 1000+00 TO 1008+00

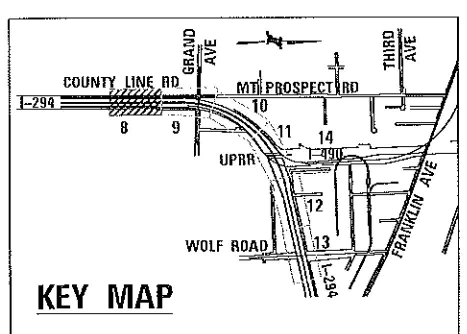
SHT NO. EC-07

DRAWING NO. 353 OF 1740

43398-sht-eros-prestage-A-008.dgn
32306



NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP - CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
- RIP - RECTANGULAR INLET PROTECTION (JS280180)
- FIPB - FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC - FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC - INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP - TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

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ILLINOIS 60515

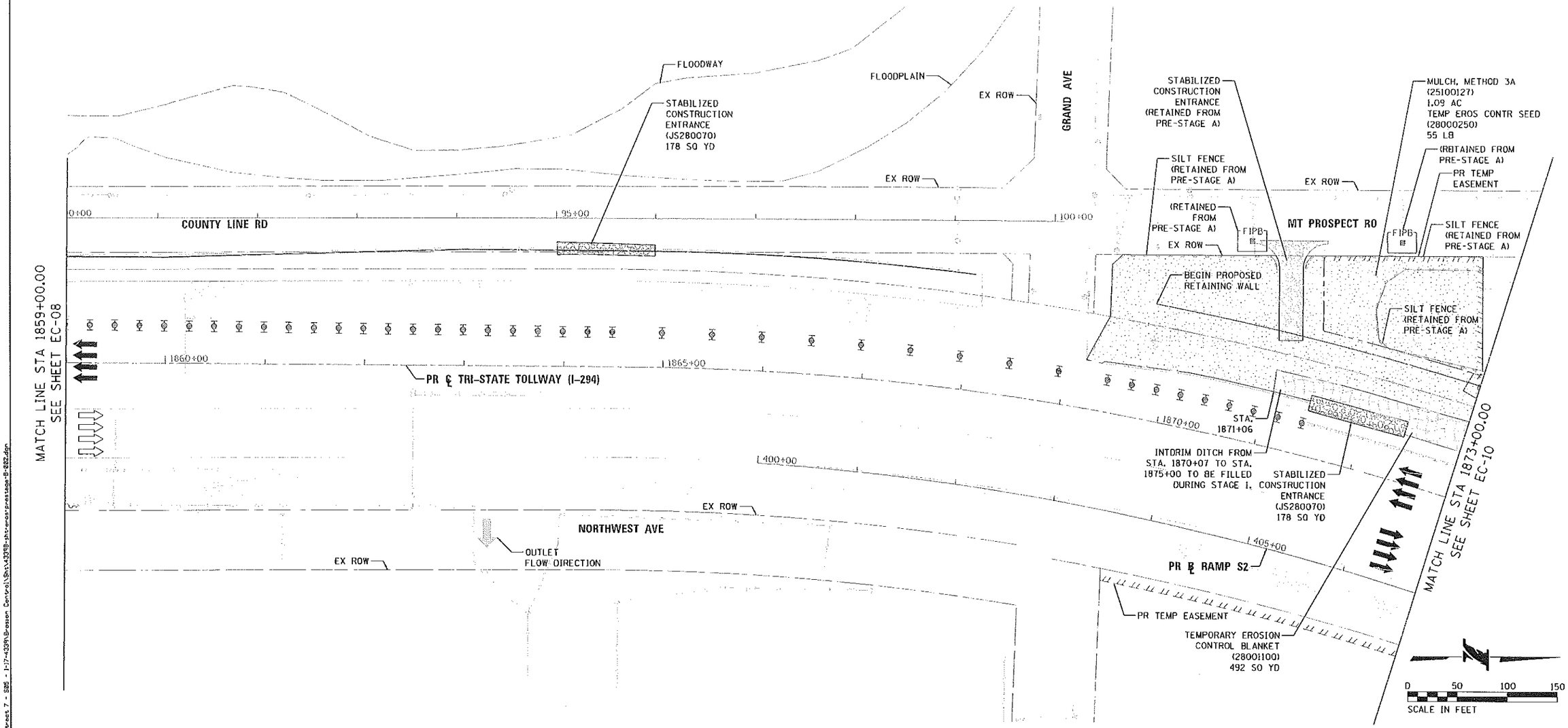
REVISIONS		
NO.	DATE	DESCRIPTION

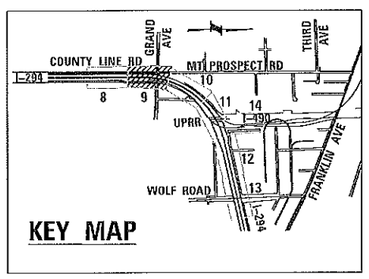
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE B - STA 1845+00 TO 1859+00

SHT NO. EC-08
DRAWING NO. 354 OF 1740

43398-sht-eros-prestage-B-001.dgn
32386





EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE B - STA 1859+00 TO 1873+00

SHT NO. EC-09

DRAWING NO. 355 OF 1740

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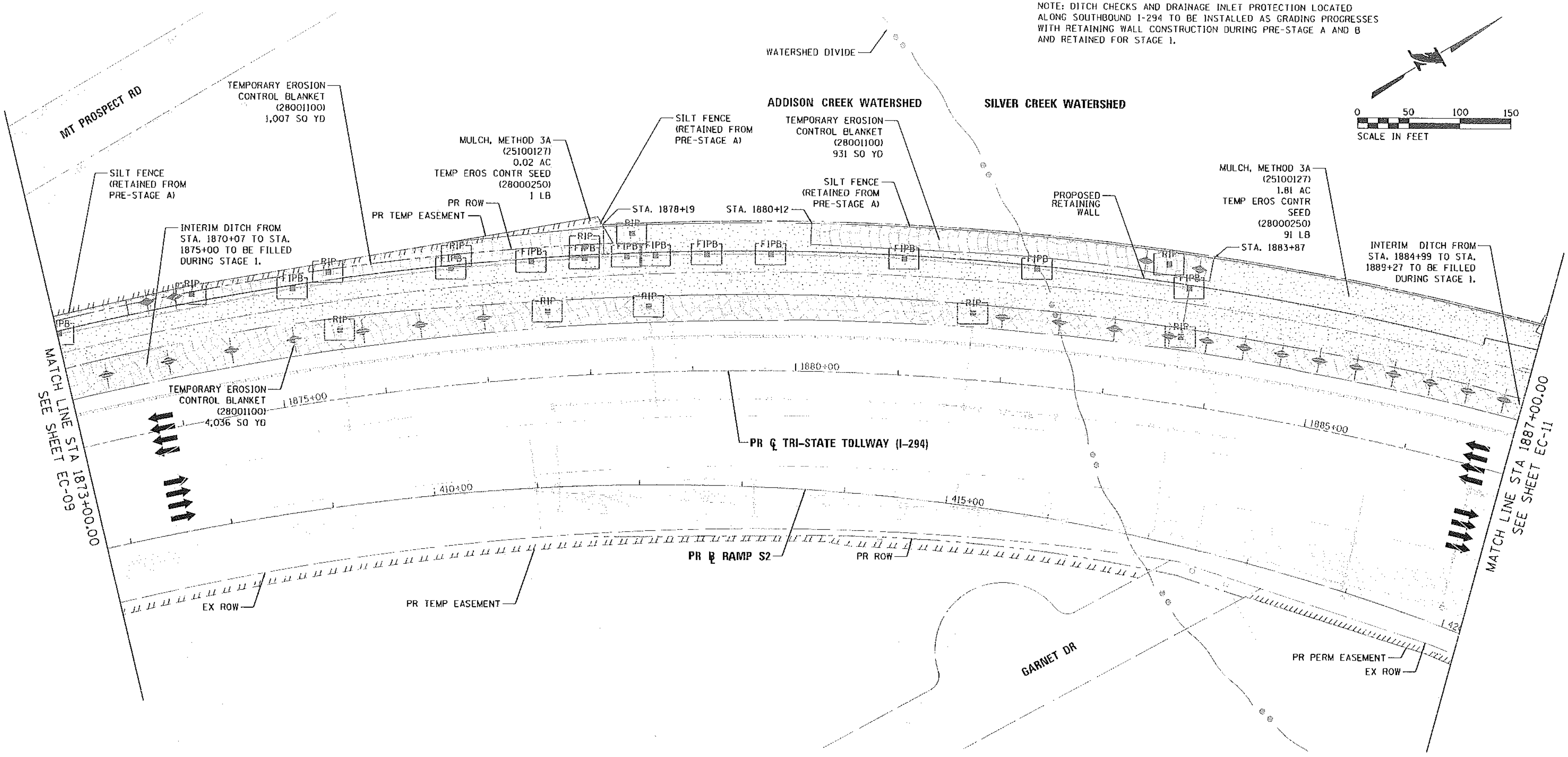
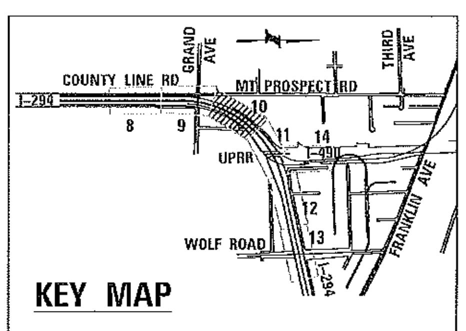
43398-sht-eros-prestage-B-002.dgn
32385

NOTE: DITCH CHECKS AND DRAINAGE INLET PROTECTION LOCATED ALONG SOUTHBOUND I-294 TO BE INSTALLED AS GRADING PROGRESSES WITH RETAINING WALL CONSTRUCTION DURING PRE-STAGE A AND B AND RETAINED FOR STAGE 1.





KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF – SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP – CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP – RECTANGULAR INLET PROTECTION (JS280180)
- FIPB – FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC – FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC – INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP – TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE	4/30/2020
CHECKED BY MANTAS	DATE	4/30/2020

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REVISIONS

NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

SHT NO. EC-10

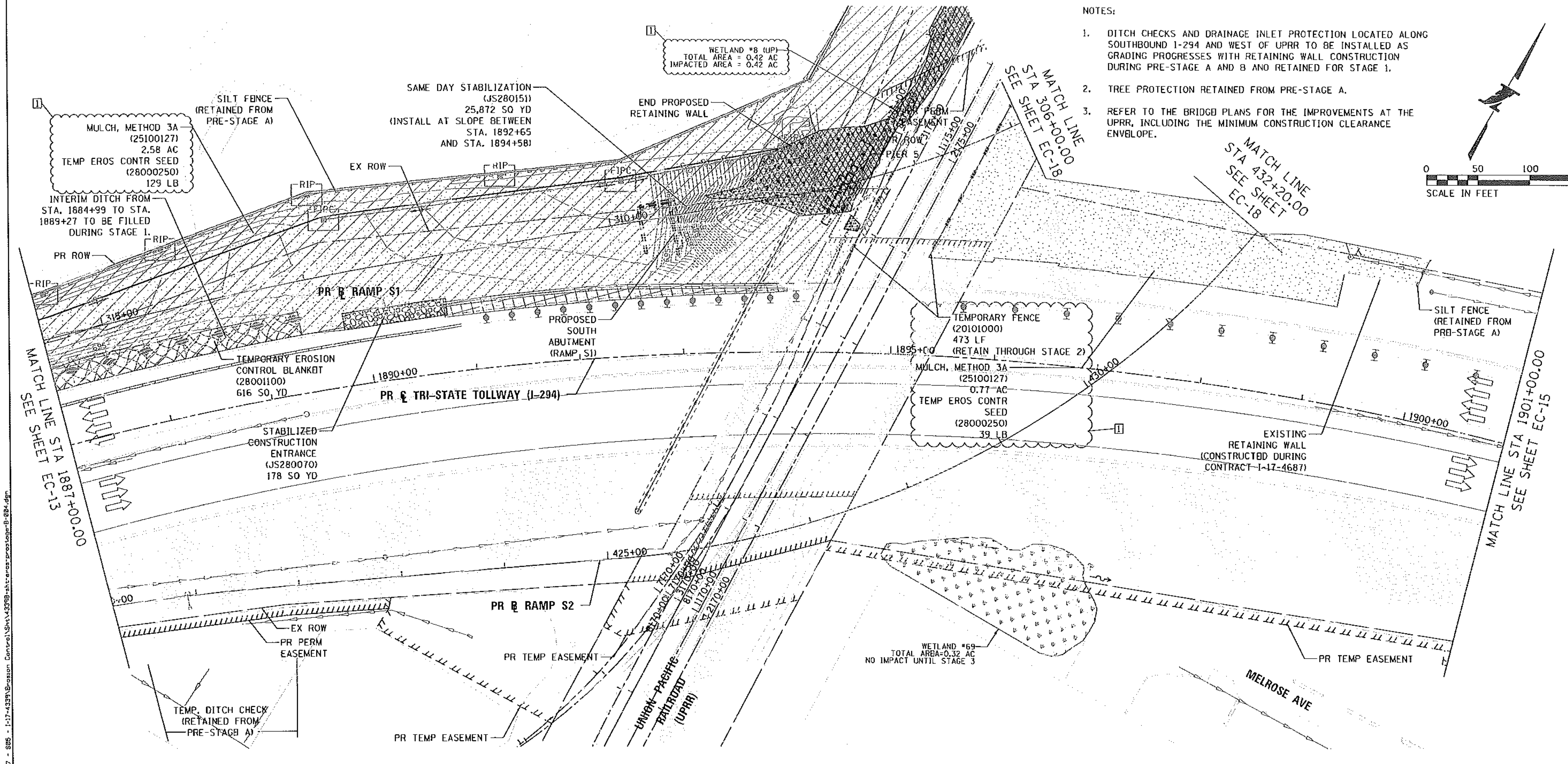
EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE B - STA 1873+00 TO 1887+00

DRAWING NO. 356 OF 1740

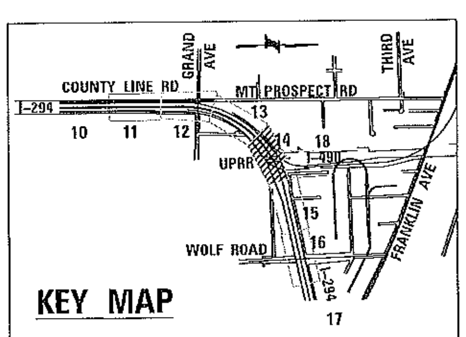
4339B-sht-eros-prestage-B-803.dgn
32306

NOTES:

1. DITCH CHECKS AND DRAINAGE INLET PROTECTION LOCATED ALONG SOUTHBOUND I-294 AND WEST OF UPRR TO BE INSTALLED AS GRADING PROGRESSES WITH RETAINING WALL CONSTRUCTION DURING PRE-STAGE A AND B AND RETAINED FOR STAGE 1.
2. TREE PROTECTION RETAINED FROM PRE-STAGE A.
3. REFER TO THE BRIDGE PLANS FOR THE IMPROVEMENTS AT THE UPRR, INCLUDING THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.



WETLAND *8 (UP)
TOTAL AREA = 0.42 AC
IMPACTED AREA = 0.42 AC
SILT FENCE (RETAINED FROM PRE-STAGE A)
MULCH, METHOD 3A (25100127) 2.58 AC
TEMP EROS CONTR SEED (28000250) 129 LB
SAME DAY STABILIZATION (JS280151) 25,872 SQ YD (INSTALL AT SLOPE BETWEEN STA. 1892+65 AND STA. 1894+58)
END PROPOSED RETAINING WALL
EX ROW
RIP
FIPC
INTERIM DITCH FROM STA. 1884+99 TO STA. 1889+27 TO BE FILLED DURING STAGE 1.
PR ROW
PR PERM EASEMENT
PIER 5
MATCH LINE STA 306+00.00 SEE SHEET EC-18
MATCH LINE STA 432+20.00 SEE SHEET EC-18
SCALE IN FEET
0 50 100 150
PR ℄ RAMP S1
PROPOSED SOUTH ABUTMENT (RAMP S1)
TEMPORARY EROSION CONTROL BLANKET (28001100) 616 SQ YD
TEMPORARY FENCE (20101000) 473 LF (RETAIN THROUGH STAGE 2)
MULCH, METHOD 3A (25100127) 0.77 AC
TEMP EROS CONTR SEED (28000250) 39 LB
SILT FENCE (RETAINED FROM PRE-STAGE A)
MATCH LINE STA 1887+00.00 SEE SHEET EC-13
1890+00
1895+00
1900+00
PR ℄ TRI-STATE TOLLWAY (I-294)
STABILIZED CONSTRUCTION ENTRANCE (JS280070) 178 SQ YD
EXISTING RETAINING WALL (CONSTRUCTED DURING CONTRACT I-17-4687)
MATCH LINE STA 1901+00.00 SEE SHEET EC-15
PR ℄ RAMP S2
EX ROW
PR PERM EASEMENT
PR TEMP EASEMENT
WETLAND *69 TOTAL AREA=0.32 AC NO IMPACT UNTIL STAGE 3
MELROSE AVE
TEMP. DITCH CHECK (RETAINED FROM PRE-STAGE A)
UNION PACIFIC RAILROAD (UPRR)



KEY MAP

EROSION CONTROL LEGEND

Symbol	Description
	CONSTRUCTION WORK ZONE
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
	PREVIOUSLY COMPLETED CONSTRUCTION
	DIRECTION OF TRAFFIC
	MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
	TEMPORARY EROSION CONTROL BLANKET (28001100)
	SILT FENCE (JS280050)
SSF	SUPER SILT FENCE (JS280100)
	DRAINAGE REMOVAL
	STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
CIP	CULVERT INLET PROTECTION-STONE (JS280140)
	STABILIZED CONSTRUCTION ENTRANCE (JS280070)
	PROPOSED DRAINAGE PATH
	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
RIP	RECTANGULAR INLET PROTECTION (JS280180)
FIPB	FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
FIPC	FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
	WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
	WETLANDS
IC	INITIAL CONSTRUCTION ITEM
	PRESERVED TREE
TP	TREE PROTECTION (JS280120)
	TEMPORARY DITCH CHECKS (JS280305)
xxx	TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
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DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION
1	3/4/2020	ISSUE NO 1

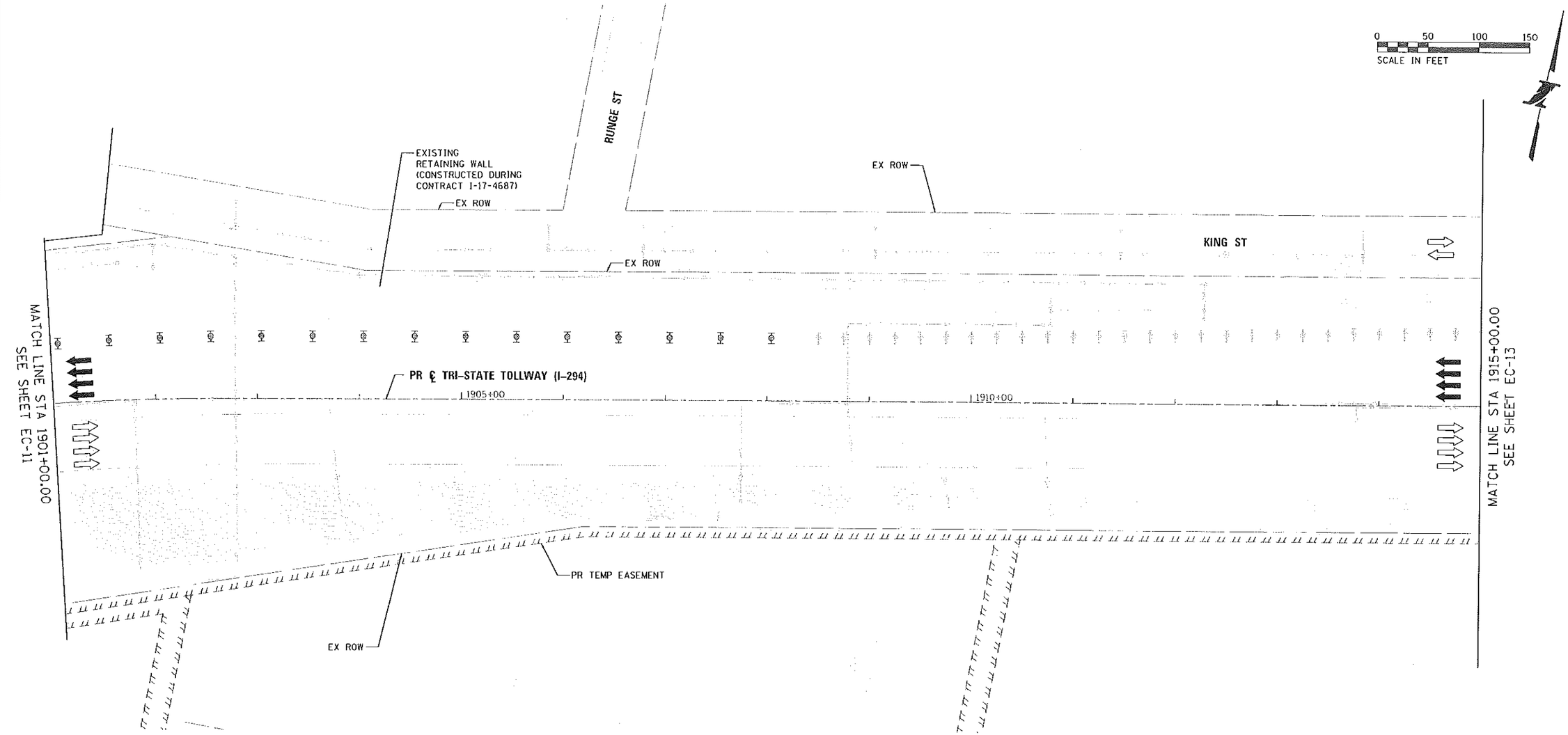
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE B - STA 1887+00 TO 1901+00

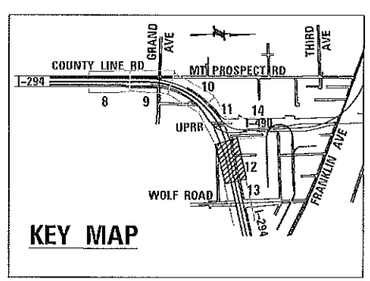
SHT NO. EC-11

DRAWING NO. 357 OF 1740

43398-sht-eros-prestage-B-004.dgn
32386



NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127)
  TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211)
  TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK
  REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S.
  PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- XXX TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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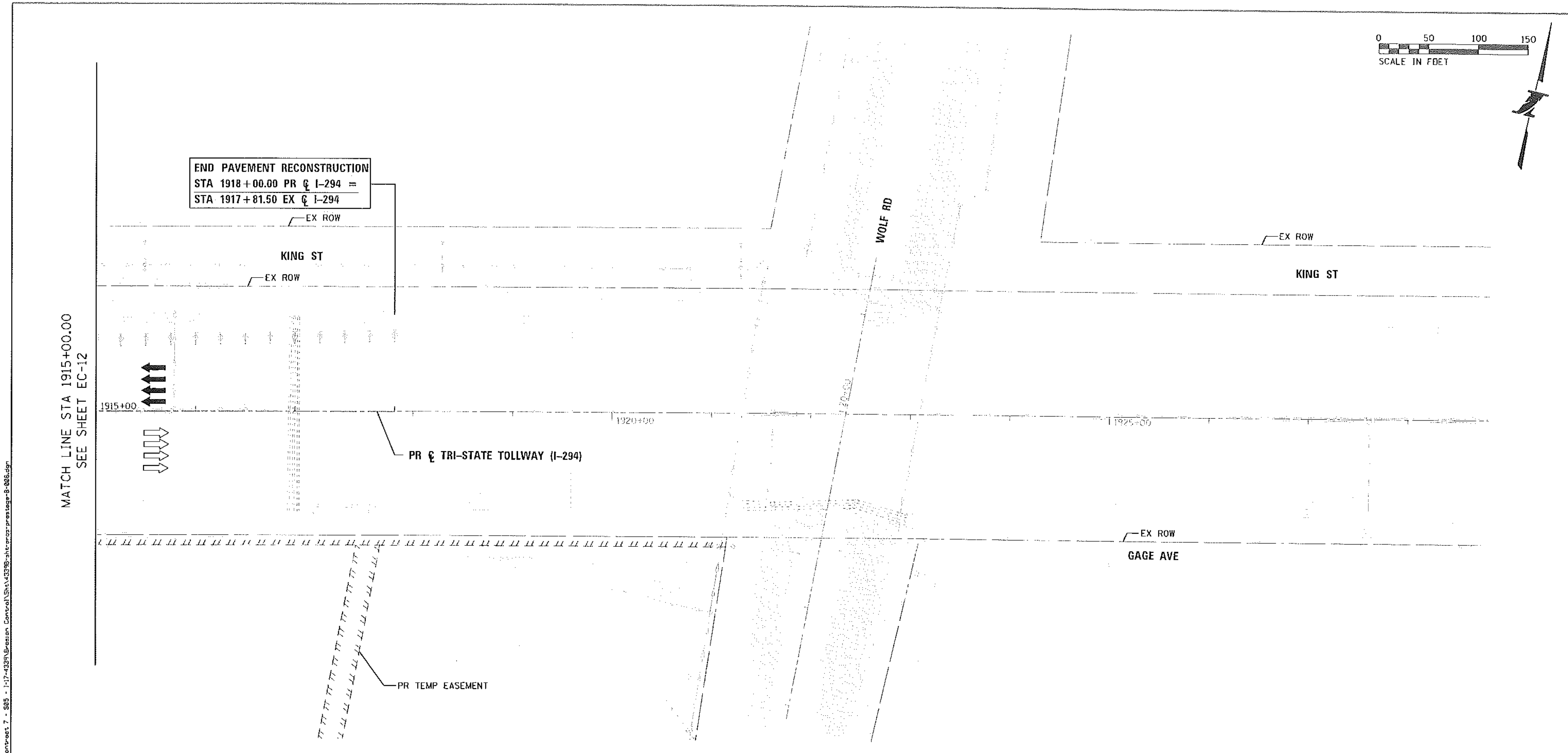
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339
SHT NO. EC-12
EROSION CONTROL /TEMP DRAINAGE PLAN
PRE-STAGE B - STA 1901+00 TO 1915+00
DRAWING NO. 358 OF 1740

43398-sht-eros-prestage-B-005.dgn
32368

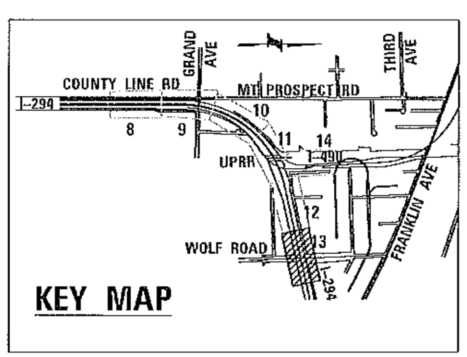


NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP - CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
- RIP - RECTANGULAR INLET PROTECTION (JS280180)
- FIPB - FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC - FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC - INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP - TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.



KEY MAP

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

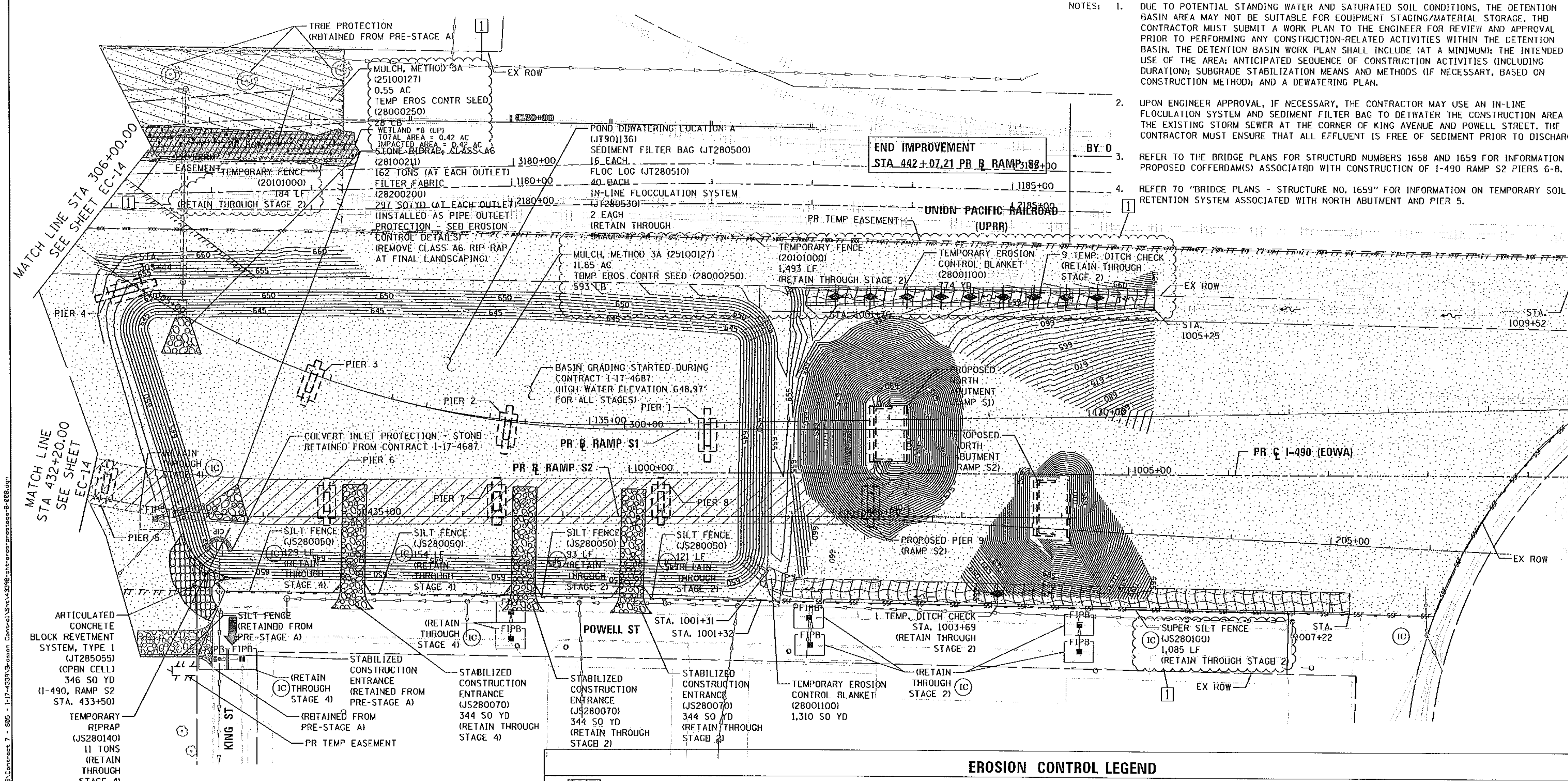
CONTRACT NO. I-17-4339

EROSION CONTROL / TEMP DRAINAGE PLAN
PRE-STAGE B - STA 1915+00 TO 1929+00

SHT NO. EC-13

DRAWING NO. 359 OF 1740

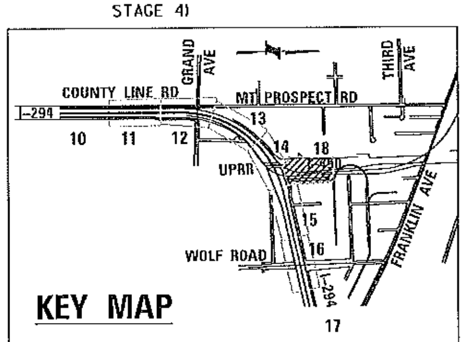
4339B-sht-eros-prestage-B-026.dgn
32386



TREE PROTECTION (RETAINED FROM PRE-STAGE A)
MULCH, METHOD 3A (25100127) 0.55 AC
TEMP EROS CONTR SEED (28000250) 28 LB
WETLAND #8 (UP) TOTAL AREA = 0.42 AC IMPACTED AREA = 0.42 AC
EX ROW
POND DEWATERING LOCATION A (JT901136)
SEDIMENT FILTER BAG (JT280500) 16 EACH
FLOC LOG (JT280510) 40 EACH
IN-LINE FLOCCULATION SYSTEM (JT280530) 2 EACH (RETAIN THROUGH STAGE 4)
STONE RIPRAP, CLASS A6 (28100211) 162 TONS (AT EACH OUTLET)
FILTER FABRIC (28200200) 297 SQ YD (AT EACH OUTLET) (INSTALLED AS PIPE OUTLET PROTECTION - SED EROSION CONTROL DETAILS) (REMOVE CLASS A6 RIP RAP AT FINAL LANDSCAPING)
TEMPORARY FENCE (20101000) 184 LF (RETAIN THROUGH STAGE 2)
END IMPROVEMENT STA 442+07.21 PR B RAMP S1
UNION PACIFIC RAILROAD (UPRR)
PR TEMP EASEMENT
MULCH, METHOD 3A (25100127) 11.85 AC
TEMP EROS CONTR SEED (28000250) 593 LB
TEMPORARY FENCE (20101000) 1,493 LF (RETAIN THROUGH STAGE 2)
TEMPORARY EROSION CONTROL BLANKET (28001100) 774 YD
9 TEMP. DITCH CHECK (RETAIN THROUGH STAGE 2)
MATCH LINE STA 306+00.00 SEE SHEET EC-14
MATCH LINE STA 432+20.00 SEE SHEET EC-14
PIER 4
PIER 3
PIER 2
PIER 1
PIER 5
PIER 6
PIER 7
PIER 8
BASIN GRADING STARTED DURING CONTRACT I-17-4687 (HIGH WATER ELEVATION 648.97' FOR ALL STAGES)
PR B RAMP S1
PR B RAMP S2
CULVERT INLET PROTECTION - STONE RETAINED FROM CONTRACT I-17-4687
PROPOSED NORTH ABUTMENT (RAMP S1)
PROPOSED NORTH ABUTMENT (RAMP S2)
PROPOSED PIER 9 (RAMP S2)
PR B I-490 (EOWA)
STA. 1005+25
STA. 1009+52
SILT FENCE (JS280050) 129 LF (RETAIN THROUGH STAGE 4)
SILT FENCE (JS280050) 154 LF (RETAIN THROUGH STAGE 4)
SILT FENCE (JS280050) 93 LF (RETAIN THROUGH STAGE 2)
SILT FENCE (JS280050) 121 LF (RETAIN THROUGH STAGE 2)
ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055) (OPEN CELL) 346 SQ YD (I-490, RAMP S2 STA. 433+50)
TEMPORARY RIPRAP (JS280140) 11 TONS (RETAIN THROUGH STAGE 4)
SILT FENCE (RETAINED FROM PRE-STAGE A)
(RETAIN THROUGH STAGE 4)
(RETAINED FROM PRE-STAGE A)
PR TEMP EASEMENT
KING ST
POWELL ST
STABILIZED CONSTRUCTION ENTRANCE (RETAINED FROM PRE-STAGE A)
STABILIZED CONSTRUCTION ENTRANCE (JS280070) 344 SQ YD (RETAIN THROUGH STAGE 4)
STABILIZED CONSTRUCTION ENTRANCE (JS280070) 344 SQ YD (RETAIN THROUGH STAGE 2)
STABILIZED CONSTRUCTION ENTRANCE (JS280070) 344 SQ YD (RETAIN THROUGH STAGE 2)
STA. 1001+31
STA. 1001+32
1 TEMP. DITCH CHECK STA. 1003+69 (RETAIN THROUGH STAGE 2)
TEMPORARY EROSION CONTROL BLANKET (28001100) 1,310 SQ YD
(RETAIN THROUGH STAGE 2)
SUPER SILT FENCE (JS280100) 1,085 LF (RETAIN THROUGH STAGE 2)
STA. 1007+22
EX ROW

NOTES:

1. DUE TO POTENTIAL STANDING WATER AND SATURATED SOIL CONDITIONS, THE DETENTION BASIN AREA MAY NOT BE SUITABLE FOR EQUIPMENT STAGING/MATERIAL STORAGE. THE CONTRACTOR MUST SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CONSTRUCTION-RELATED ACTIVITIES WITHIN THE DETENTION BASIN. THE DETENTION BASIN WORK PLAN SHALL INCLUDE (AT A MINIMUM): THE INTENDED USE OF THE AREA; ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES (INCLUDING DURATION); SUBGRADE STABILIZATION MEANS AND METHODS (IF NECESSARY, BASED ON CONSTRUCTION METHOD); AND A DEWATERING PLAN.
2. UPON ENGINEER APPROVAL, IF NECESSARY, THE CONTRACTOR MAY USE AN IN-LINE FLOCULATION SYSTEM AND SEDIMENT FILTER BAG TO DETWATER THE CONSTRUCTION AREA TO THE EXISTING STORM SEWER AT THE CORNER OF KING AVENUE AND POWELL STREET. THE CONTRACTOR MUST ENSURE THAT ALL EFFLUENT IS FREE OF SEDIMENT PRIOR TO DISCHARGE.
3. REFER TO THE BRIDGE PLANS FOR STRUCTURD NUMBERS 1658 AND 1659 FOR INFORMATION ON PROPOSED COFFERDAM(S) ASSOCIATED WITH CONSTRUCTION OF I-490 RAMP S2 PIERS 6-8.
4. REFER TO "BRIDGE PLANS - STRUCTURE NO. 1659" FOR INFORMATION ON TEMPORARY SOIL RETENTION SYSTEM ASSOCIATED WITH NORTH ABUTMENT AND PIER 5.



SCALE IN FEET: 0 50 100 150

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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REVISIONS

NO.	DATE	DESCRIPTION
1	9/4/2020	ISSUE NO 1

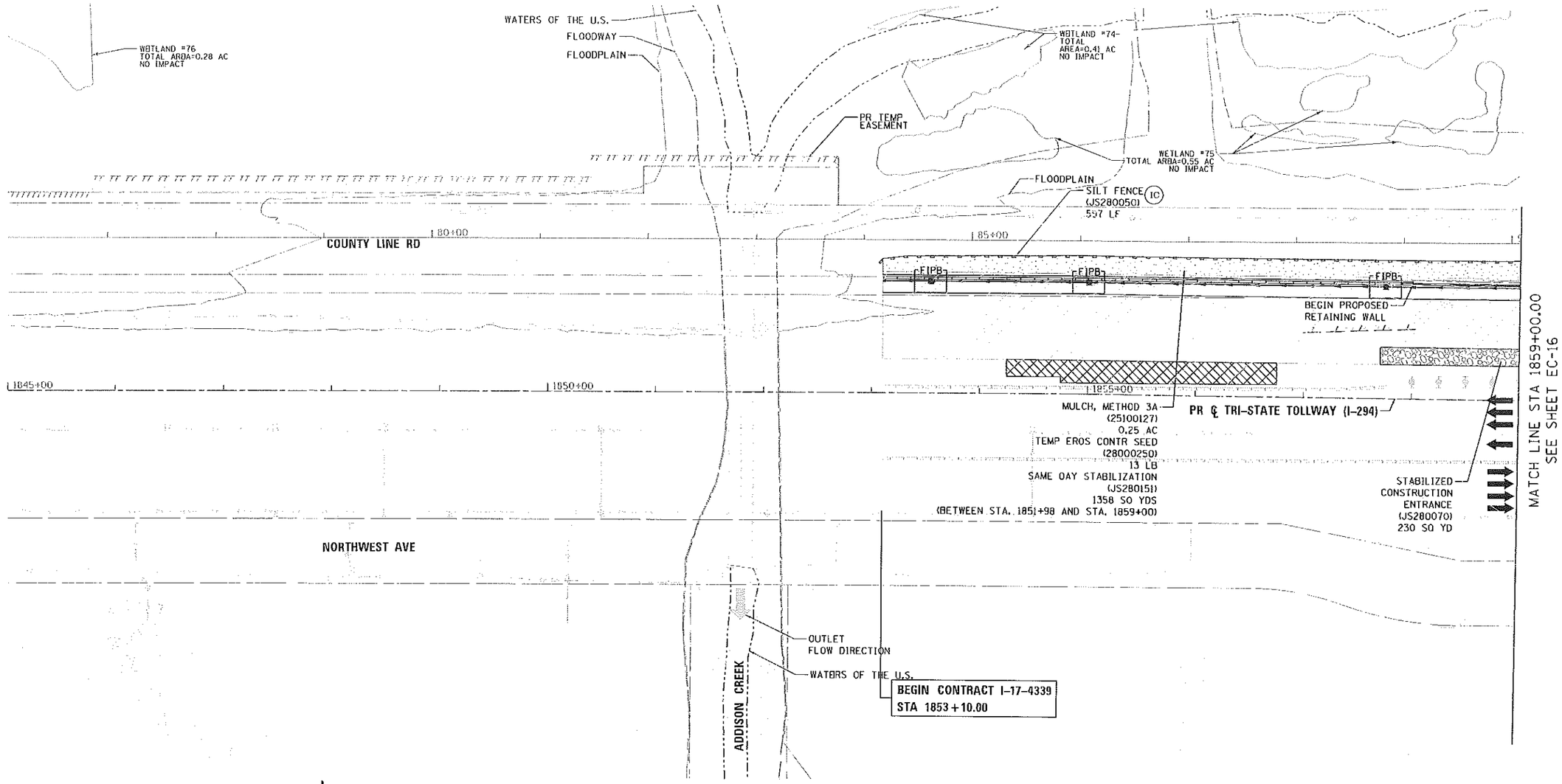
CONTRACT NO. I-17-4339

EROSION CONTROL / TEMP DRAINAGE PLAN
PRE-STAGE B - STA 1000+00 TO 1008+00

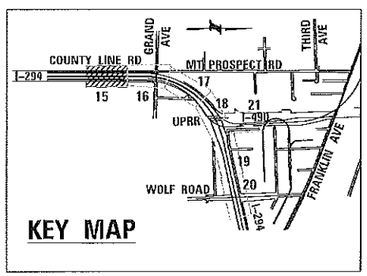
SHT NO. EC-14

DRAWING NO. 360 OF 1740

4339B-sht-eros-prestage-B-008.dgn
32386



0 50 100 150
SCALE IN FEET



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127)
  TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211)
  TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- (IC) INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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REVISIONS		
NO.	DATE	DESCRIPTION

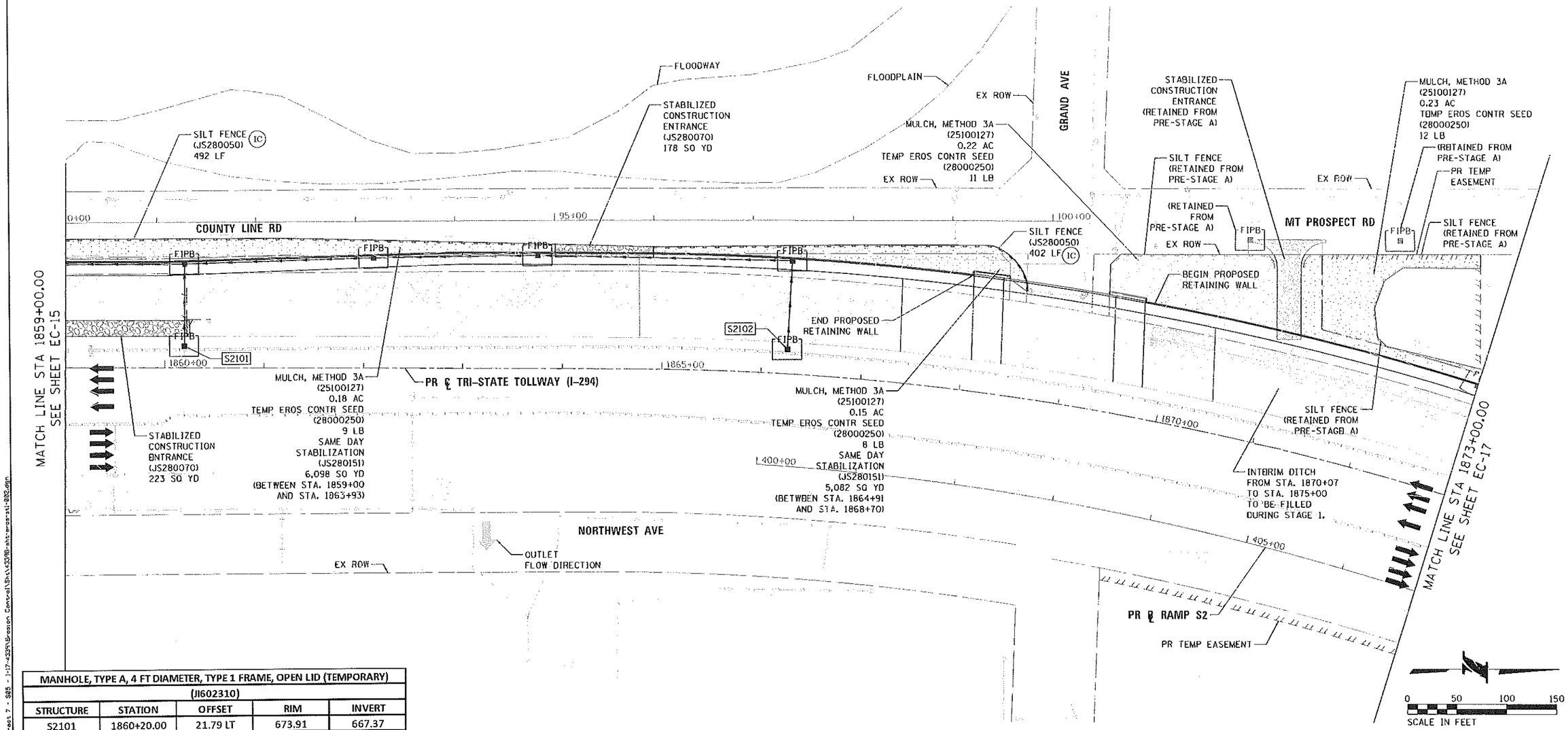
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1 - STA 1845+00 TO 1859+00

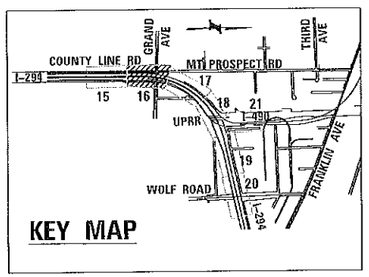
SHT NO. EC-15

DRAWING NO. 361 OF 1740

43398-sht-eros-stl-001.dgn
32386



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S2101	1860+20.00	21.79 LT	673.91	667.37
S2102	1866+25.00	24.57 LT	686.52	678.67
TOTAL			2	
MANHOLES TO BE REMOVED IN STAGE 2				



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP - CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
- RIP - RECTANGULAR INLET PROTECTION (JS280180)
- FIPB - FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC - FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- (IC) INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339
SHT NO. EC-16
EROSION CONTROL /TEMP DRAINAGE PLAN STAGE 1 - STA 1859+00 TO 1873+00
DRAWING NO. 362 OF 1740

p:\benpshared\benesh_local\Benesh_Projects\Documents\18588A\18588A.BR.1456\Contract 7 - SBS - I-17-4339\Erosion Control\Sht\4339b-sht-eros-stl-802.dgn
4339B-sht-eros-stl-802.dgn
32388

NOTE: DITCH CHECKS AND DRAINAGE INLET PROTECTION LOCATED ALONG SOUTHBOUND I-294 TO BE INSTALLED AS GRADING PROGRESSES WITH RETAINING WALL CONSTRUCTION DURING PRE-STAGE A AND B AND RETAINED THROUGH STAGE 1, UNLESS OTHERWISE NOTED.

MT PROSPECT RD

MULCH, METHOD 3A (25100127) 0.02 AC
TEMP EROS CONTR SEED (28000250) 1 LB

TEMPORARY EROSION CONTROL BLANKET (28001100) 1,007 SQ YD

PR ROW

PR TEMP EASEMENT

420368
EX SS MH
RIM=678.46
INV=664.21 (SE)
INV=661.96 (NE)
PR INV=673.70 (S)

SILT FENCE (RETAINED FROM PRE-STAGE A)

SILT FENCE (RETAINED FROM PRE-STAGE A)

MULCH, METHOD 3A (25100127) 0.02 AC
TEMP EROS CONTR SEED (28000250) 1 LB

INTERIM DITCH FROM STA. 1870+07 TO STA. 1875+00 TO BE FILLED DURING STAGE 1.

WATERSHED DIVIDE

ADDISON CREEK WATERSHED

SILVER CREEK WATERSHED

TEMP. DITCH CHEC (RETAINED FROM PRE-STAGE A)

SILT FENCE (RETAINED FROM PRE-STAGE A)

TEMPORARY EROSION CONTROL BLANKET (28001100) 931 SQ YD

STABILIZED CONSTRUCTION ENTRANCE (JS280070) 178 SQ YD

STA. 1883+87

PROPOSED RETAINING WALL

MULCH, METHOD 3A (25100127) 0.43 AC
TEMP EROS CONTR SEED (28000250) 22 LB

STA. 1878+19

STA. 1880+12

48" RCP

48" RCP

42" RCP

41345
EX SS MH
RIM=680.38
INV=668.43 (E)
INV=659.63 (W,S)
PR INV=672.85 (N)

41348
EX SS MH
RIM=682.65
INV=677.20 (NE)
INV=657.95 (SW)
INV=657.95 (SE)

41354
EX SS MH
RIM=676.99
INV=658.24 (SW)
INV=658.14 (NE)

42" RCP

1880+00

1875+00

1885+00

1890+00

1895+00

1900+00

1905+00

1910+00

1915+00

1920+00

S2201

S2202

S2203

(RETAIN THROUGH STAGE 1A)

(RETAIN THROUGH STAGE 1A)

(RETAIN THROUGH STAGE 1A)

STABILIZED CONSTRUCTION ENTRANCE (JS280070) 178 SQ YD

PR ℄ TRI-STATE TOLLWAY (I-294)

PR ℄ RAMP S2

PR ROW

EX ROW

PR TEMP EASEMENT

GARNET DR

PR PERM EASEMENT

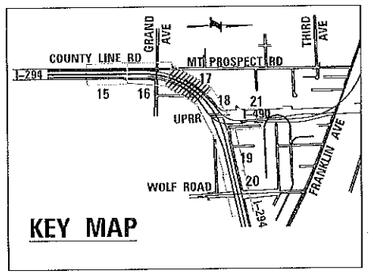
EX ROW

MATCH LINE STA 1873+00.00
SEE SHEET EC-16

MATCH LINE STA 1887+00.00
SEE SHEET EC-17

0 50 100 150
SCALE IN FEET

MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S2201	1871+61.83	22.33 LT	684.38	671.11
S2202	1878+60.63	28.58 LT	682.85	673.75
S2203	1881+67.71	24.46 LT	684.06	672.37
TOTAL			3	
MANHOLES TO BE REMOVED IN STAGE 2				



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1 – STA 1873+00 TO 1887+00

SHT NO. EC-17

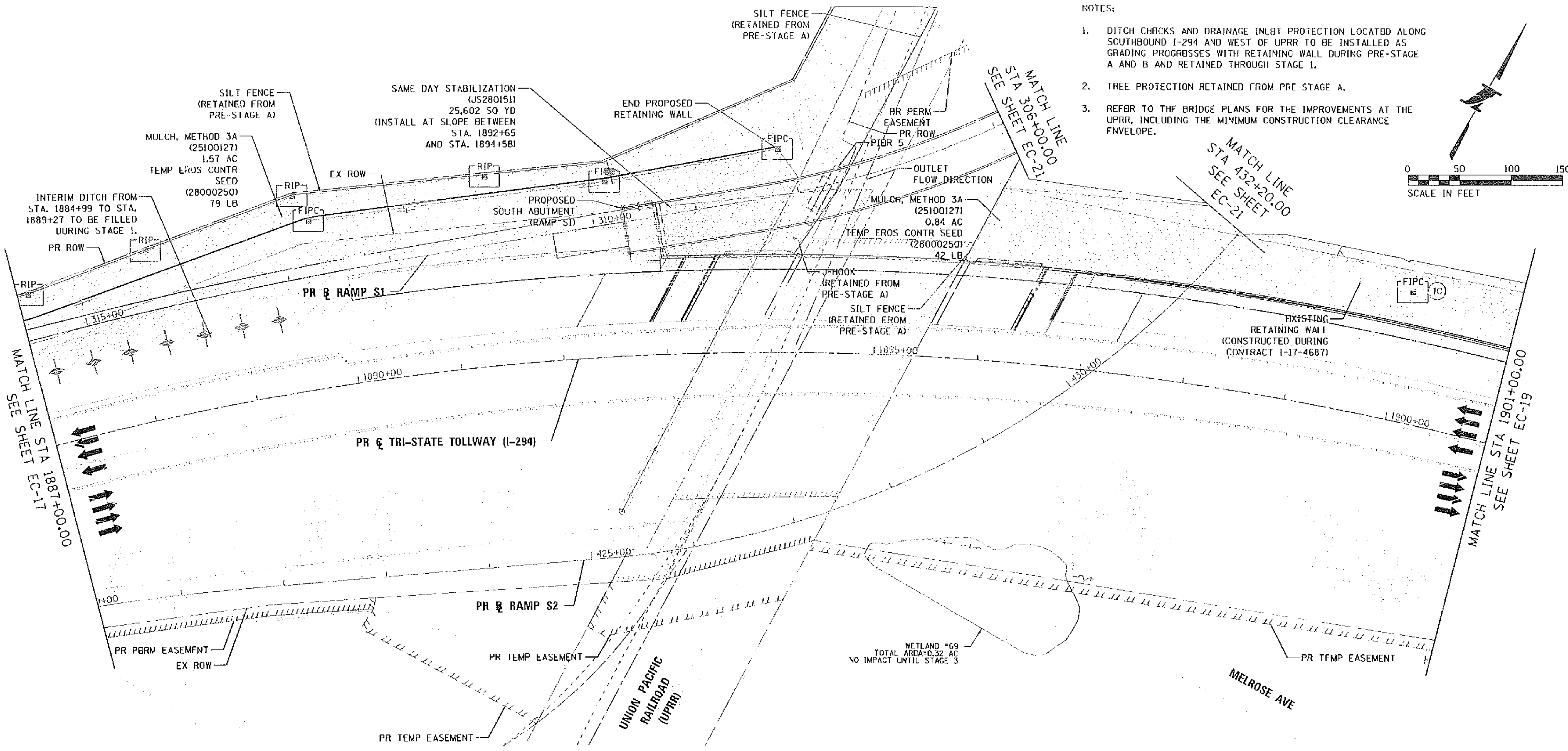
DRAWING NO. 363 OF 1740

p:\Bensenville\Bensenville_local\Bensenville_Projects\Documents\18658A\18658A.4658\Contract_2 - 585 - I-17-4339\Erosion Control\Sht\4339B-sht-eros-stl-883.dgn

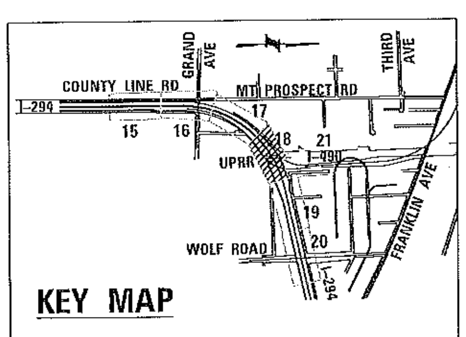
4339B-sht-eros-stl-883.dgn
32368

NOTES:

1. DITCH CHECKS AND DRAINAGE INLET PROTECTION LOCATED ALONG SOUTHBOUND I-294 AND WEST OF UPRR TO BE INSTALLED AS GRADING PROGRESSES WITH RETAINING WALL DURING PRE-STAGE A AND B AND RETAINED THROUGH STAGE 1.
2. TREE PROTECTION RETAINED FROM PRE-STAGE A.
3. REFER TO THE BRIDGE PLANS FOR THE IMPROVEMENTS AT THE UPRR, INCLUDING THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.



SILT FENCE (RETAINED FROM PRE-STAGE A)
SAME DAY STABILIZATION (JS280151) 25,602 SQ YD (INSTALL AT SLOPE BETWEEN STA. 1892+65 AND STA. 1894+58)
END PROPOSED RETAINING WALL
MULCH, METHOD 3A (25100127) 1.57 AC TEMP EROS CONTR SEED (28000250) 79 LB
EX ROW
INTERIM DITCH FROM STA. 1884+99 TO STA. 1889+27 TO BE FILLED DURING STAGE 1.
PR ROW
PROPOSED SOUTH ABUTMENT (RAMP S1)
PR PERM EASEMENT
PIER 5
OUTLET FLOW DIRECTION
MATCH LINE STA 306+00.00 SEE SHEET EC-21
MATCH LINE STA 432+20.00 SEE SHEET EC-21
MULCH, METHOD 3A (25100127) 0.84 AC TEMP EROS CONTR SEED (28000250) 42 LB
J-HOOK (RETAINED FROM PRE-STAGE A)
SILT FENCE (RETAINED FROM PRE-STAGE A)
PR ℄ RAMP S1
EXISTING RETAINING WALL (CONSTRUCTED DURING CONTRACT I-17-4687)
MATCH LINE STA 1887+00.00 SEE SHEET EC-17
MATCH LINE STA 1901+00.00 SEE SHEET EC-19
PR ℄ TRI-STATE TOLLWAY (I-294)
PR ℄ RAMP S2
PR PERM EASEMENT
EX ROW
PR TEMP EASEMENT
WETLAND #69 TOTAL AREA=0.32 AC NO IMPACT UNTIL STAGE 3
UNION PACIFIC RAILROAD (UPRR)
MELROSE AVE
SCALE IN FEET
0 50 100 150



KEY MAP

EROSION CONTROL LEGEND

CONSTRUCTION WORK ZONE	STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
TEMPORARY PAVEMENT	CULVERT INLET PROTECTION-STONE (JS280140)
TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE	STABILIZED CONSTRUCTION ENTRANCE (JS280070)
PREVIOUSLY COMPLETED CONSTRUCTION	PROPOSED DRAINAGE PATH
DIRECTION OF TRAFFIC	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)	RECTANGULAR INLET PROTECTION (JS280180)
TEMPORARY EROSION CONTROL BLANKET (28001100)	FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
SILT FENCE (JS280050)	FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
SUPER SILT FENCE (JS280100)	
DRAINAGE REMOVAL	

WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
WETLANDS
INITIAL CONSTRUCTION ITEM
PRESERVED TREE
TREE PROTECTION (JS280120)
TEMPORARY DITCH CHECKS (JS280305)
TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE	4/30/2020
CHECKED BY MANTAS	DATE	4/30/2020

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DOWNERS GROVE, ILLINOIS 60515

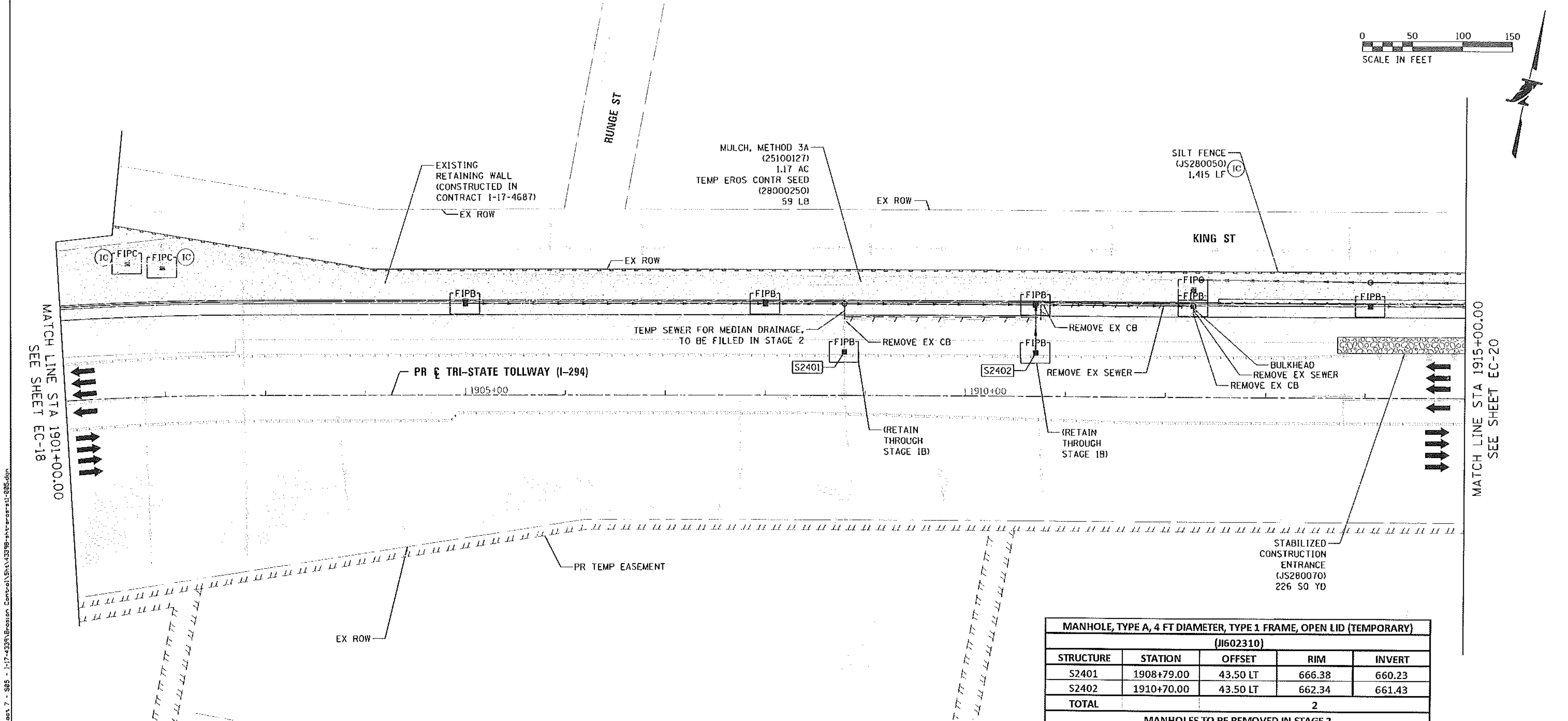
REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

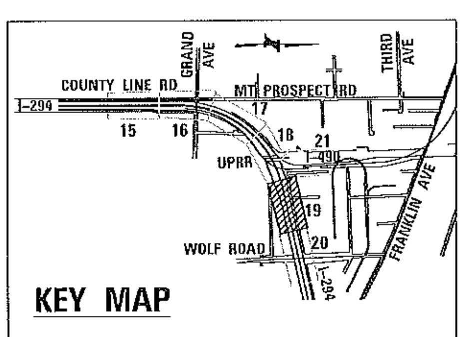
EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1 - STA 1887+00 TO 1901+00

SHT NO. EC-18
DRAWING NO. 364 OF 1740

43398-sht-eros-st1-004.dgn
32386



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S2401	1908+79.00	43.50 LT	666.38	660.23
S2402	1910+70.00	43.50 LT	662.34	661.43
TOTAL		2		
MANHOLES TO BE REMOVED IN STAGE 2				



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP — CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIPB — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC — FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC — INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP — TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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CHECKED BY MANTAS	DATE	4/30/2020

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

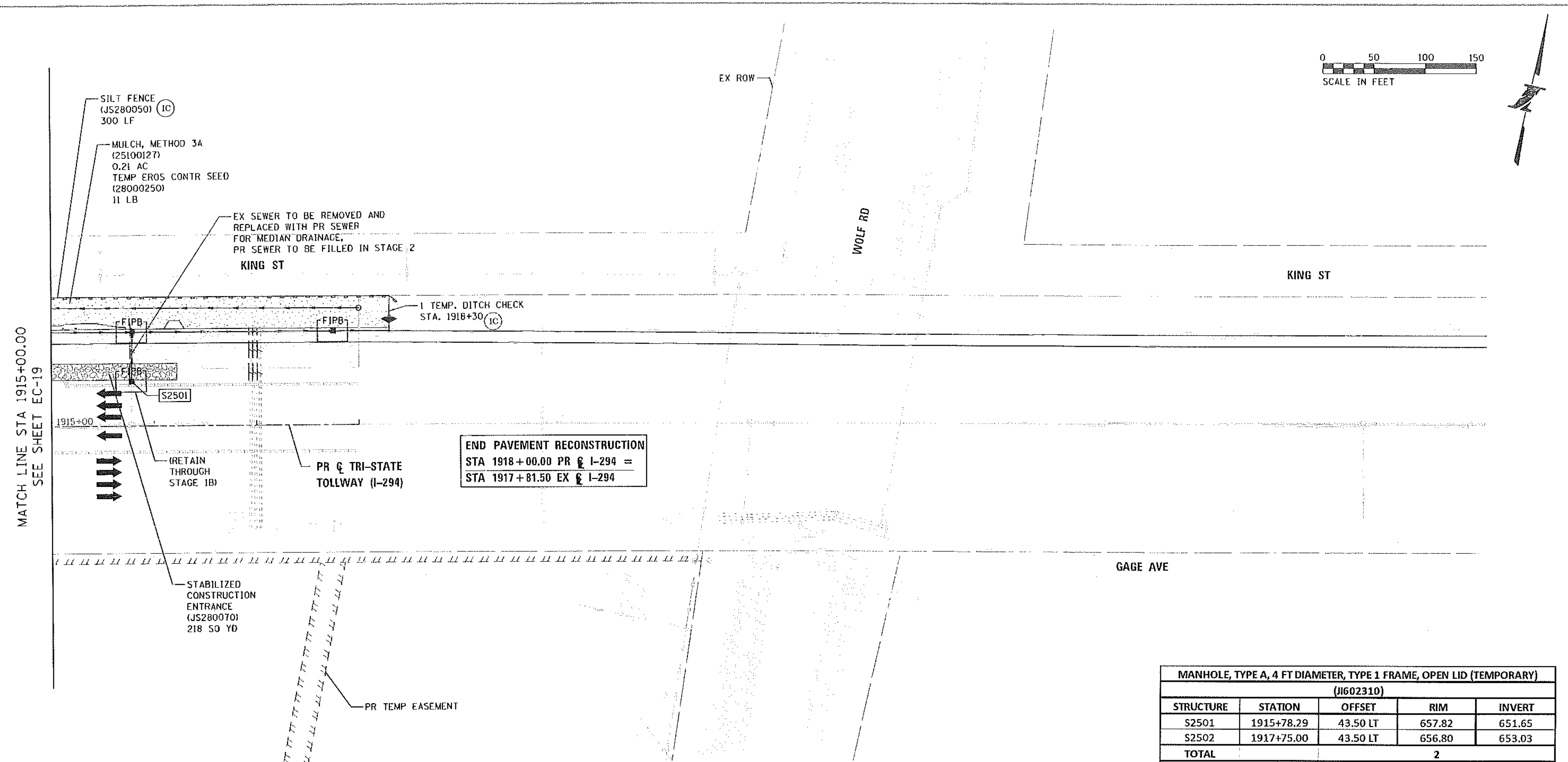
CONTRACT NO. I-17-4339

SHT NO. EC-19

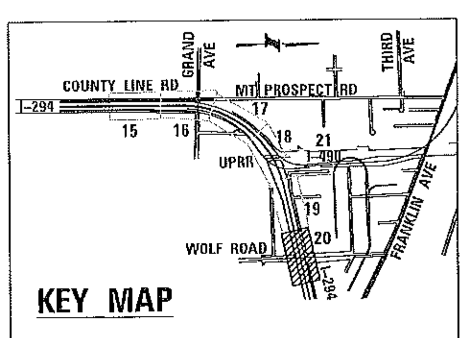
EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1 - STA 1901+00 TO 1915+00

DRAWING NO. 365 OF 1740

4339B-sht-eros-st1-005.dgn
32306



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S2501	1915+78.29	43.50 LT	657.82	651.65
S2502	1917+75.00	43.50 LT	656.80	653.03
TOTAL			2	
MANHOLES TO BE REMOVED IN STAGE 2				



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF – SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP – CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP – RECTANGULAR INLET PROTECTION (JS280180)
- FIPB – FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC – FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC – INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP – TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx – TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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REVISIONS		
NO.	DATE	DESCRIPTION

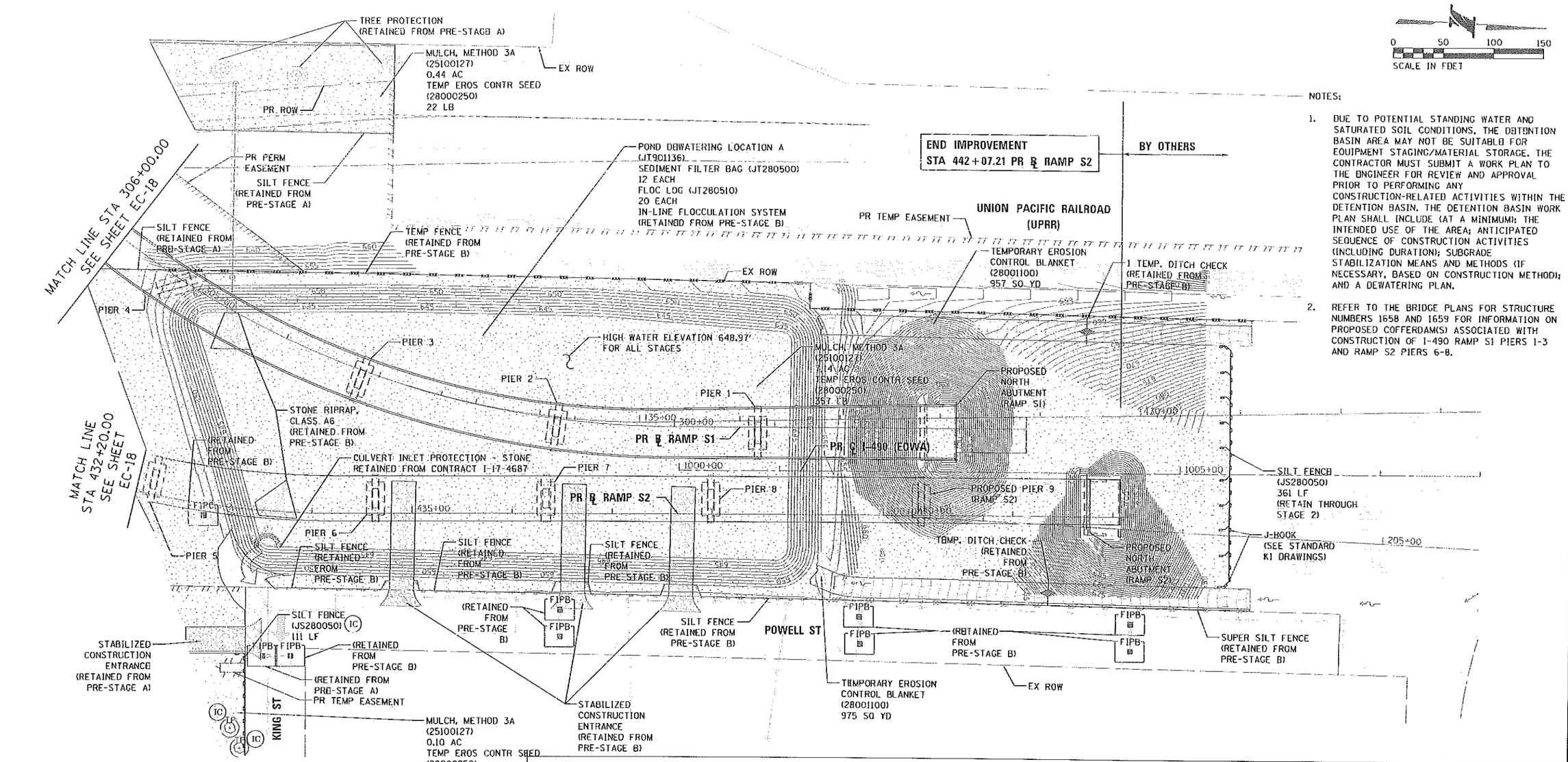
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1 - STA 1915+00 TO 1929+00

SHT NO. EC-20

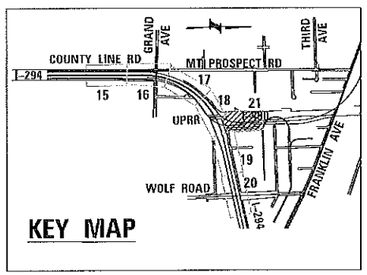
DRAWING NO. 366 OF 1740

4339B-sht-eros-st1-006.dgn
32306



NOTES:

1. DUE TO POTENTIAL STANDING WATER AND SATURATED SOIL CONDITIONS, THE DETENTION BASIN AREA MAY NOT BE SUITABLE FOR EQUIPMENT STAGING/MATERIAL STORAGE. THE CONTRACTOR MUST SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CONSTRUCTION-RELATED ACTIVITIES WITHIN THE DETENTION BASIN. THE DETENTION BASIN WORK PLAN SHALL INCLUDE (AT A MINIMUM): THE INTENDED USE OF THE AREA; ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES (INCLUDING DURATION); SUBGRADE STABILIZATION MEANS AND METHODS (IF NECESSARY, BASED ON CONSTRUCTION METHOD); AND A DEWATERING PLAN.
2. REFER TO THE BRIDGE PLANS FOR STRUCTURE NUMBERS 1658 AND 1659 FOR INFORMATION ON PROPOSED COFFERDAM(S) ASSOCIATED WITH CONSTRUCTION OF I-490 RAMP S1 PIERS 1-3 AND RAMP S2 PIERS 6-8.



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- XXX TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

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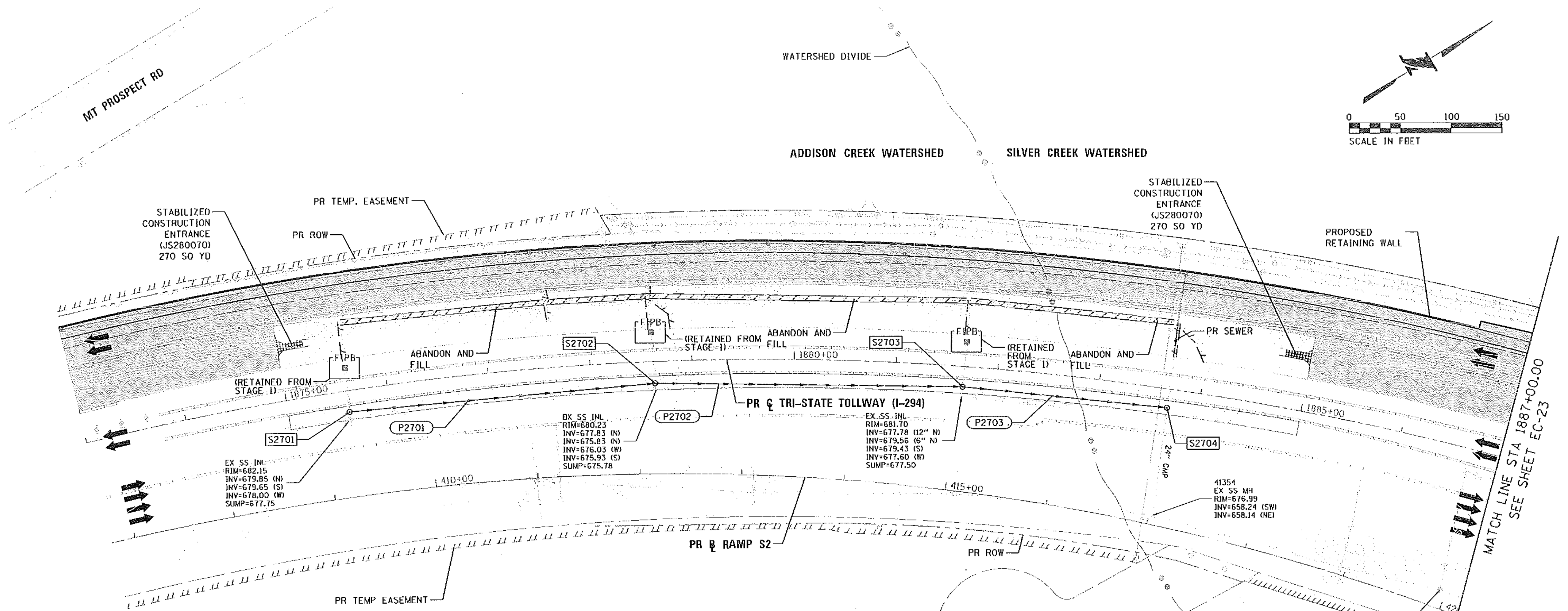
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

NO.	DATE	REVISIONS DESCRIPTION

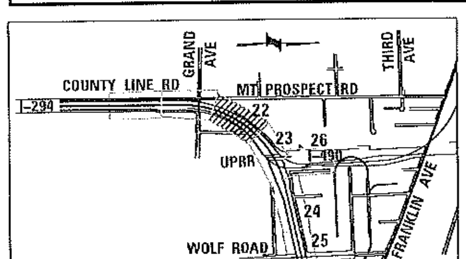
CONTRACT NO. I-17-4339 | SHT NO. EC-21
EROSION CONTROL /TEMP DRAINAGE PLAN STAGE 1 – STA 1000+00 TO 1008+00 | DRAWING NO. 367 OF 1740

43398-sht-eros-stl-807.dgn
32306



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S2701	1875+60	20.00 LT	683.00	677.50
S2702	1881+66	20.00 LT	682.10	675.50
S2703	1878+63	20.00 LT	682.25	674.50
S2704	1883+69	20.00 LT	685.00	S - 673.75 E - 658.50 (EX)
TOTAL		4		
MANHOLES TO BE REMOVED IN STAGE 2				

TEMPORARY STORM SEWER, CLASS A, 24" (JI550120)					
PIPE NO.	FROM STATION	U/S INV	TO STATION	D/S INV	LENGTH
P2701	1875+60	677.50	1878+63	675.50	303
P2702	1878+63	675.50	1881+66	674.50	303
P2703	1881+66	674.50	1883+69	673.75	203
TOTAL			809		
SEWER TO BE REMOVED IN STAGE 2					



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

SHT NO. EC-22

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1A - STA 1873+00 TO 1887+00

DRAWING NO. 368 OF 1740

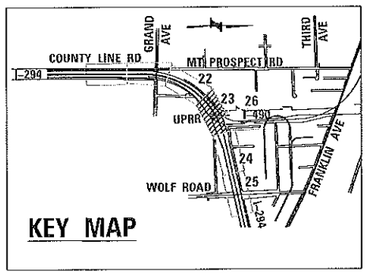
4339B-sht-eros-st1A-003.dgn
32306

NOTES:

1. TREE PROTECTION RETAINED FROM PRE-STAGE A.
2. REFER TO THE BRIDGE PLANS FOR THE IMPROVEMENTS AT THE UPRR, INCLUDING THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.

0 50 100 150
SCALE IN FEET

MULCH, METHOD 3A (25100127) 0.57 AC
TEMP EROS CONTR SEED (28000250) 29 LB
SILT FENCE (NORTH OF STA. 310+18 RETAINED FROM PRE-STAGE A)
END PROPOSED RETAINING WALL
PROPOSED SOUTH ABUTMENT (RAMP S1) STA. 310+18
PR ROW
EX ROW
PR ℄ RAMP S1
PIER 5
OUTLET FLOW DIRECTION
SILT FENCE (RETAINED FROM PRE-STAGE A)
MATCH LINE STA 306+00.00 SEE SHEET EC-26
MATCH LINE STA 432+20.00 SEE SHEET EC-26
SILT FENCE (JS280050) 29 LF (RETAIN THROUGH STAGE 4)
MULCH, METHOD 3A (25100127) 0.62 AC TEMP EROS CONTR SEED (28000250) 31 LB
EXISTING RETAINING WALL (CONSTRUCTED DURING CONTRACT I-17-4687)
MATCH LINE STA 1887+00.00 SEE SHEET EC-22
MATCH LINE STA 1901+00.00 SEE SHEET EC-23
PR ℄ TRI-STATE TOLLWAY (I-294)
L1170 EX SS MH RIM=669.31 INV=664.69 (E) INV=656.71 (W) RESTRICTOR INV=665.51
PR ℄ RAMP S2
PR PERM EASEMENT
EX ROW
PR TEMP EASEMENT
PR TEMP EASEMENT
UNION PACIFIC RAILROAD (UPRR)
WETLAND #69 TOTAL AREA=0.32 AC NO IMPACTS UNTIL STAGE 3
PR TEMP EASEMENT
MELROSE AVE



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

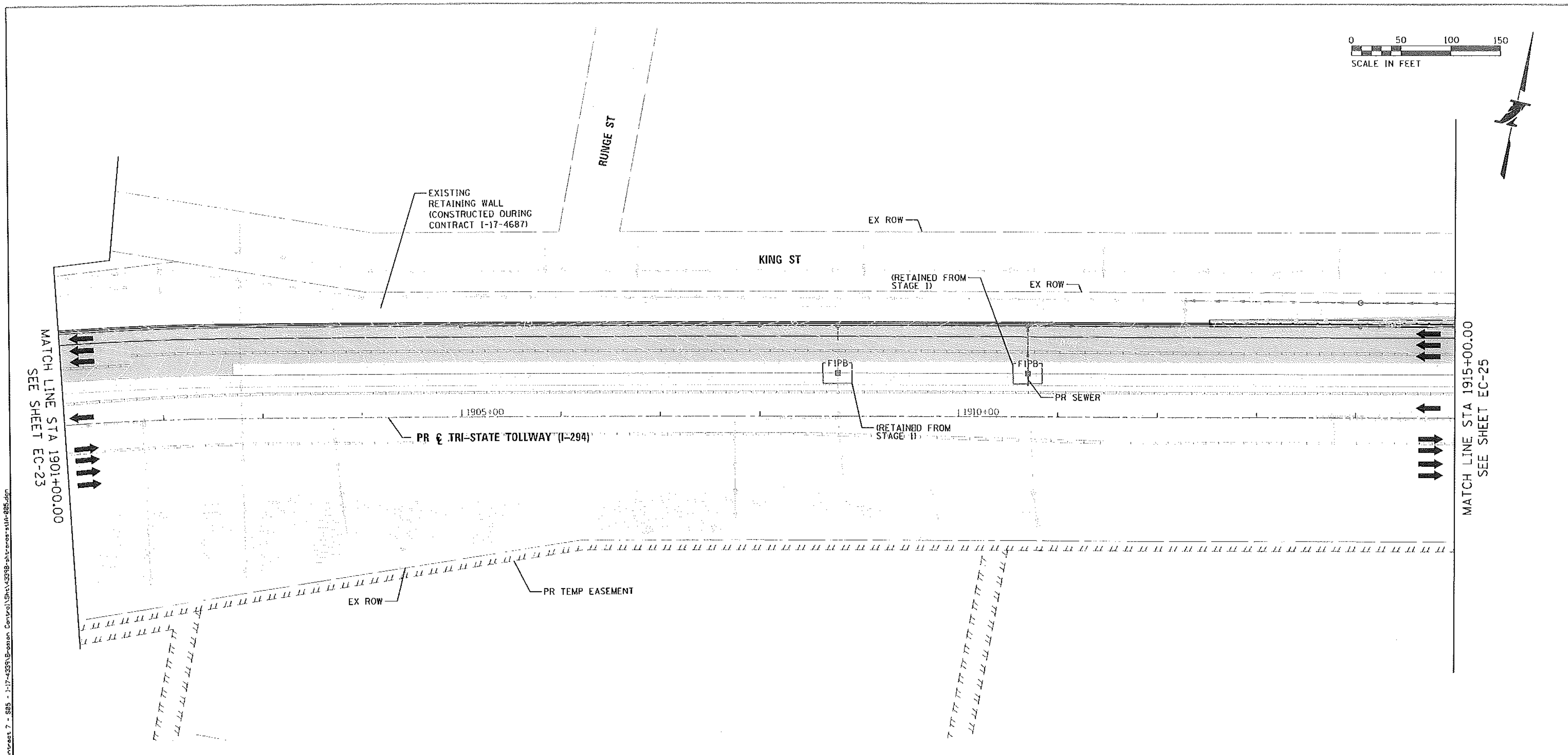
REVISIONS		
NO.	DATE	DESCRIPTION

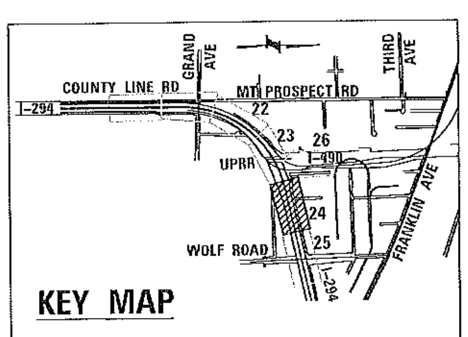
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1A – STA 1887+00 TO 1901+00

SHT NO. EC-23
DRAWING NO. 369 OF 1740

I:\Engineering\Local\Engineering_Projects\Documents\10592a\10555.00\4555\Contract 7 - SBS - I-17-4339\Erosion Control\Sht\43398-sht-eros-stlA-004.dgn
43398-sht-eros-stlA-004.dgn
32386





KEY MAP

EROSION CONTROL LEGEND

Symbol	Description
	CONSTRUCTION WORK ZONE
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
	PREVIOUSLY COMPLETED CONSTRUCTION
	DIRECTION OF TRAFFIC
	MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
	TEMPORARY EROSION CONTROL BLANKET (28001100)
	SILT FENCE (JS280050)
SSF	SUPER SILT FENCE (JS280100)
	DRAINAGE REMOVAL
	STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
CIP	CULVERT INLET PROTECTION-STONE (JS280140)
	STABILIZED CONSTRUCTION ENTRANCE (JS280070)
	PROPOSED DRAINAGE PATH
	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
RIP	RECTANGULAR INLET PROTECTION (JS280180)
F1PB	FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
F1PC	FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
	WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
	WETLANDS
IC	INITIAL CONSTRUCTION ITEM
	PRESERVED TREE
TP	TREE PROTECTION (JS280120)
	TEMPORARY DITCH CHECKS (JS280305)
	TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

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Rosemont, Illinois 60018
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1A - STA 1901+00 TO 1915+00

SHT NO. EC-24

DRAWING NO. 370 OF 1740

4339B-sht-eros-st1A-005.dgn
32306

END PAVEMENT RECONSTRUCTION
STA 1918+00.00 PR ℄ I-294 =
STA 1917+81.50 EX ℄ I-294

MATCH LINE STA 1915+00.00
SEE SHEET EC-24

KING ST

EX ROW

EX ROW

STABILIZED CONSTRUCTION ENTRANCE (JS280070) 270 SQ YD

FIPB

1915+00

(RETAINED FROM STAGE I)

PR ℄ TRI-STATE TOLLWAY (I-294)

WOLF RD

EX ROW

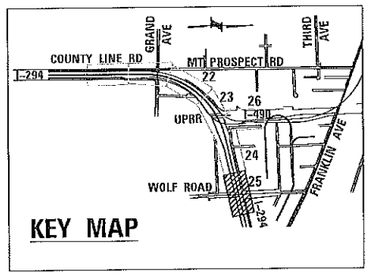
KING ST

GAGE AVE

EX ROW

0 50 100 150
SCALE IN FEET

NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28D00250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1A – STA 1915+00 TO 1929+00

SHT NO. EC-25

DRAWING NO. 371 OF 1740

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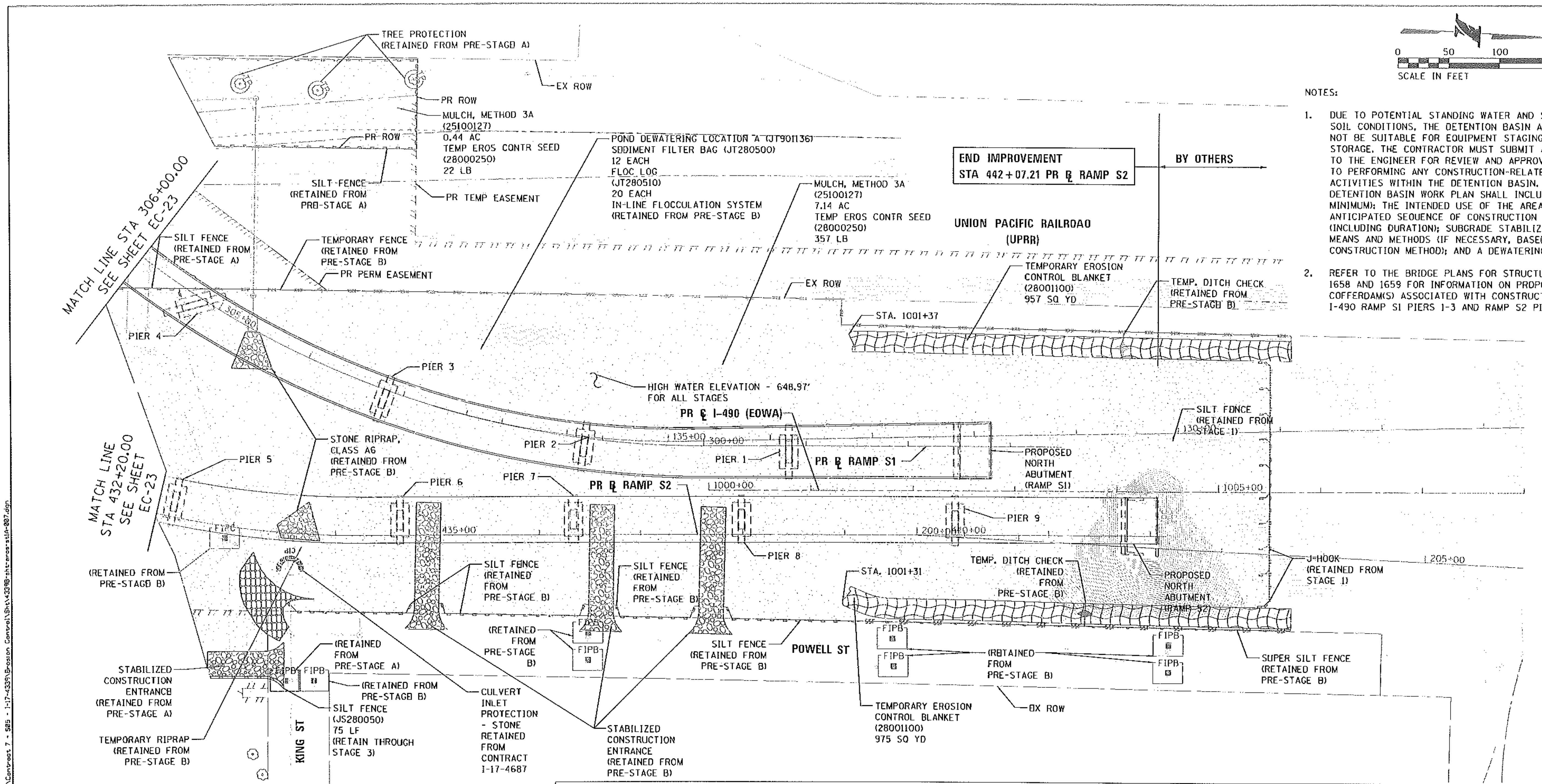
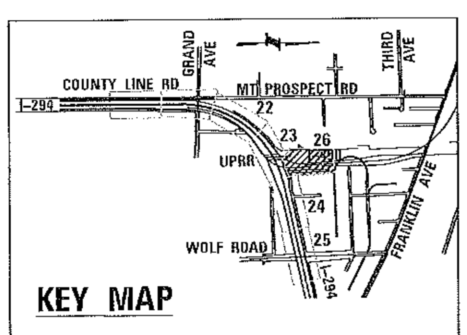
43398-sht-eros-st1A-006.dgn
32385



NOTES:

1. DUE TO POTENTIAL STANDING WATER AND SATURATED SOIL CONDITIONS, THE DETENTION BASIN AREA MAY NOT BE SUITABLE FOR EQUIPMENT STAGING/MATERIAL STORAGE. THE CONTRACTOR MUST SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CONSTRUCTION-RELATED ACTIVITIES WITHIN THE DETENTION BASIN. THE DETENTION BASIN WORK PLAN SHALL INCLUDE (AT A MINIMUM): THE INTENDED USE OF THE AREA; ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES (INCLUDING DURATION); SUBGRADE STABILIZATION MEANS AND METHODS (IF NECESSARY, BASED ON CONSTRUCTION METHOD); AND A DEWATERING PLAN.
2. REFER TO THE BRIDGE PLANS FOR STRUCTURE NUMBERS 1658 AND 1659 FOR INFORMATION ON PROPOSED COFFERDAM(S) ASSOCIATED WITH CONSTRUCTION OF I-490 RAMP S1 PIERS 1-3 AND RAMP S2 PIERS 6-8.



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF — SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP — CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIPB — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC — FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC — INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP — TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE	4/30/2020	
CHECKED BY MANTAS	DATE	4/30/2020	

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

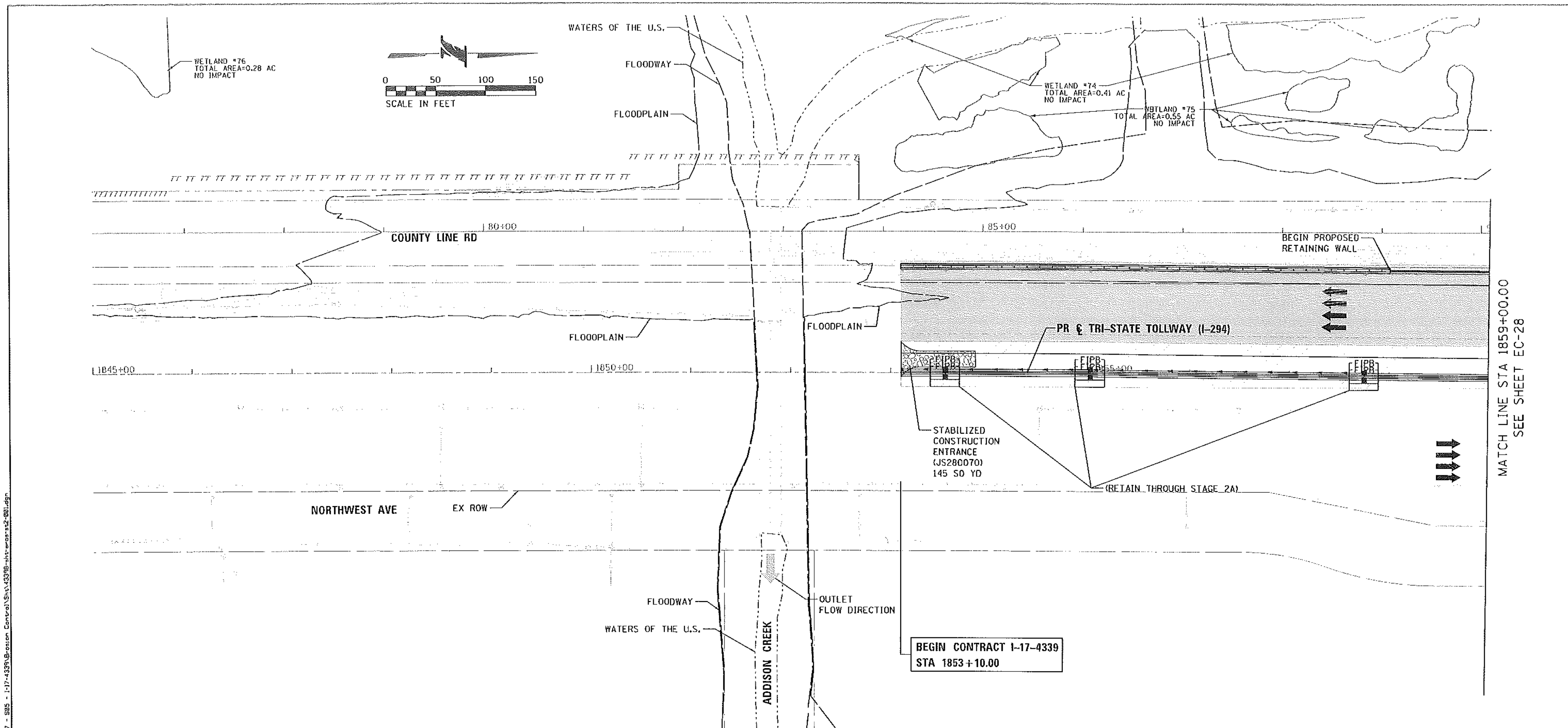
CONTRACT NO. I-17-4339

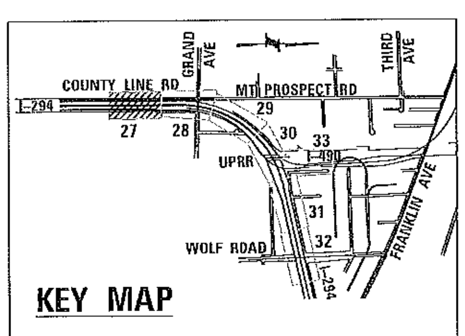
SHT NO. EC-26

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 1A - STA 1000+00 TO 1008+00

DRAWING NO. 372 OF 1740

4339B-sht-eros-st1A-007.dgn
32306





EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF – SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP – CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
- RIP – RECTANGULAR INLET PROTECTION (JS280180)
- FIPB – FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC – FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC – INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP – TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE	4/30/2020	
CHECKED BY MANTAS	DATE	4/30/2020	

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

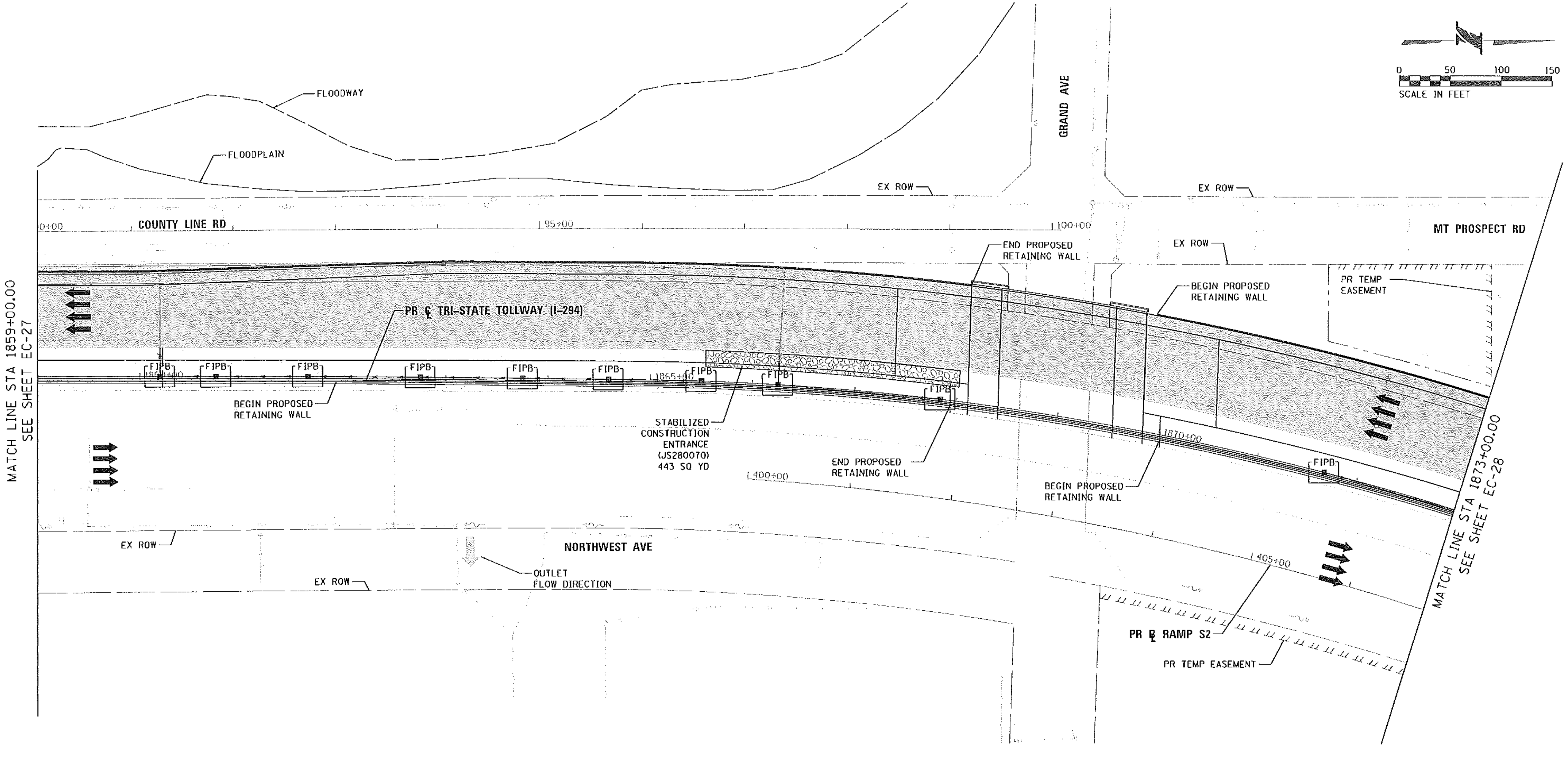
CONTRACT NO. I-17-4339

SHT NO. EC-27

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 2 – STA 1845+00 TO 1859+00

DRAWING NO. 373 OF 1740

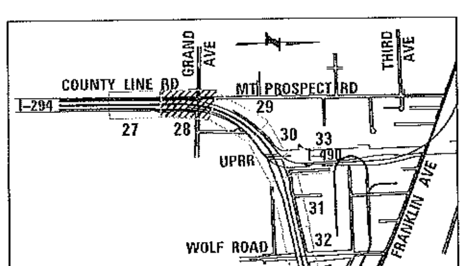
43398-sht-eros-st2-001.dgn
32306



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.



KEY MAP

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

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9575 W. Higgins Road, Suite 600
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

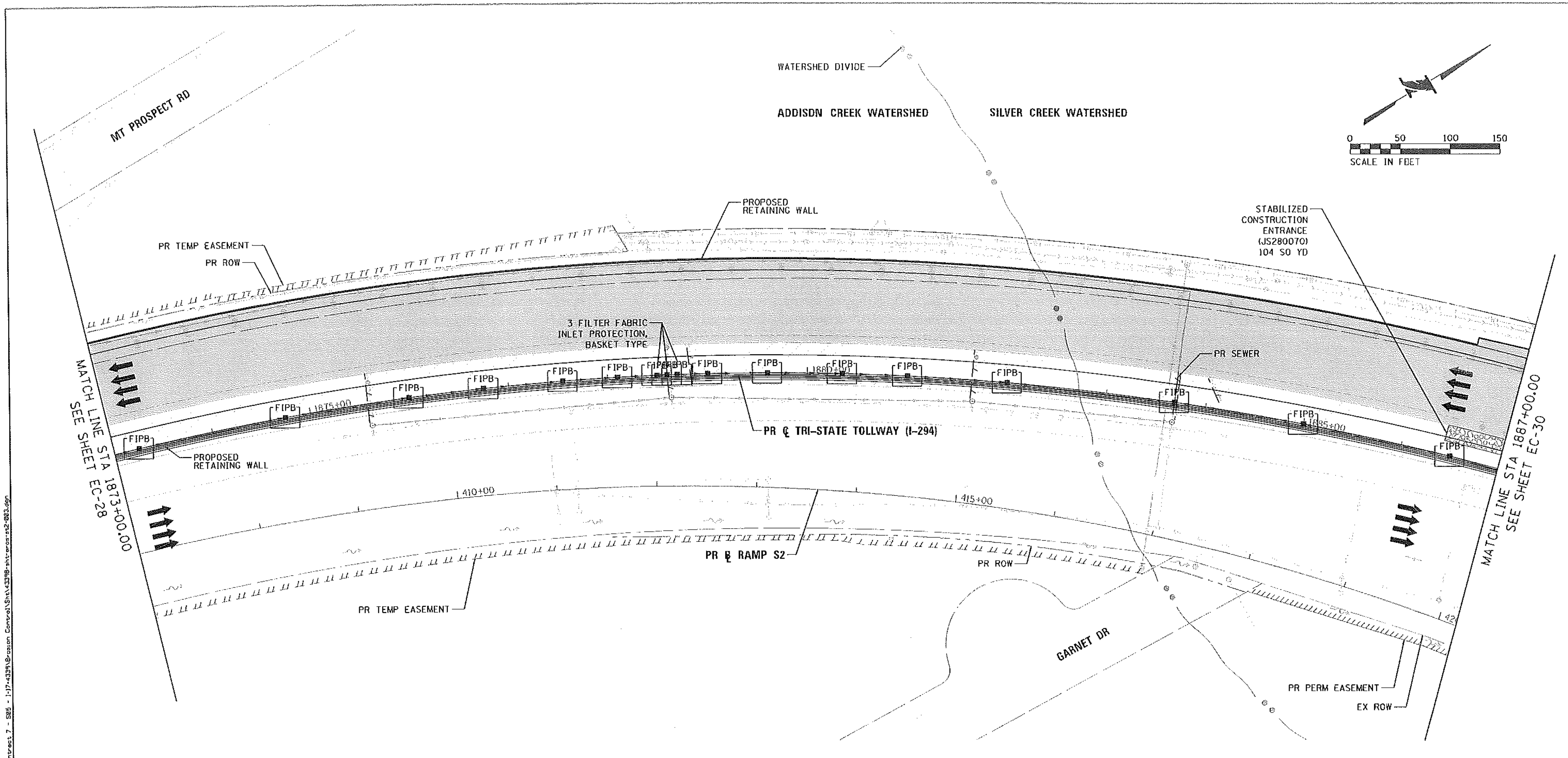
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 2 - STA 1859+00 TO 1873+00

SHT NO. EC-28

DRAWING NO. 374 OF 1740

43398-sht-eros-st2-002.dgn
32386



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
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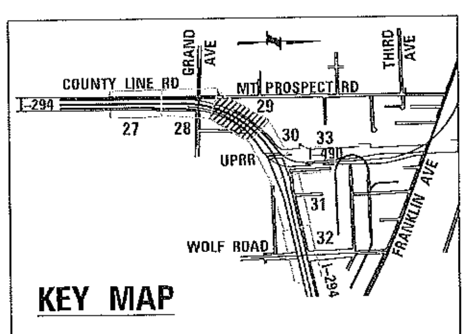
- SSF — SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP — CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIPB — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC — FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC — INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP — TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx — TEMPORARY FENCE (20101000)

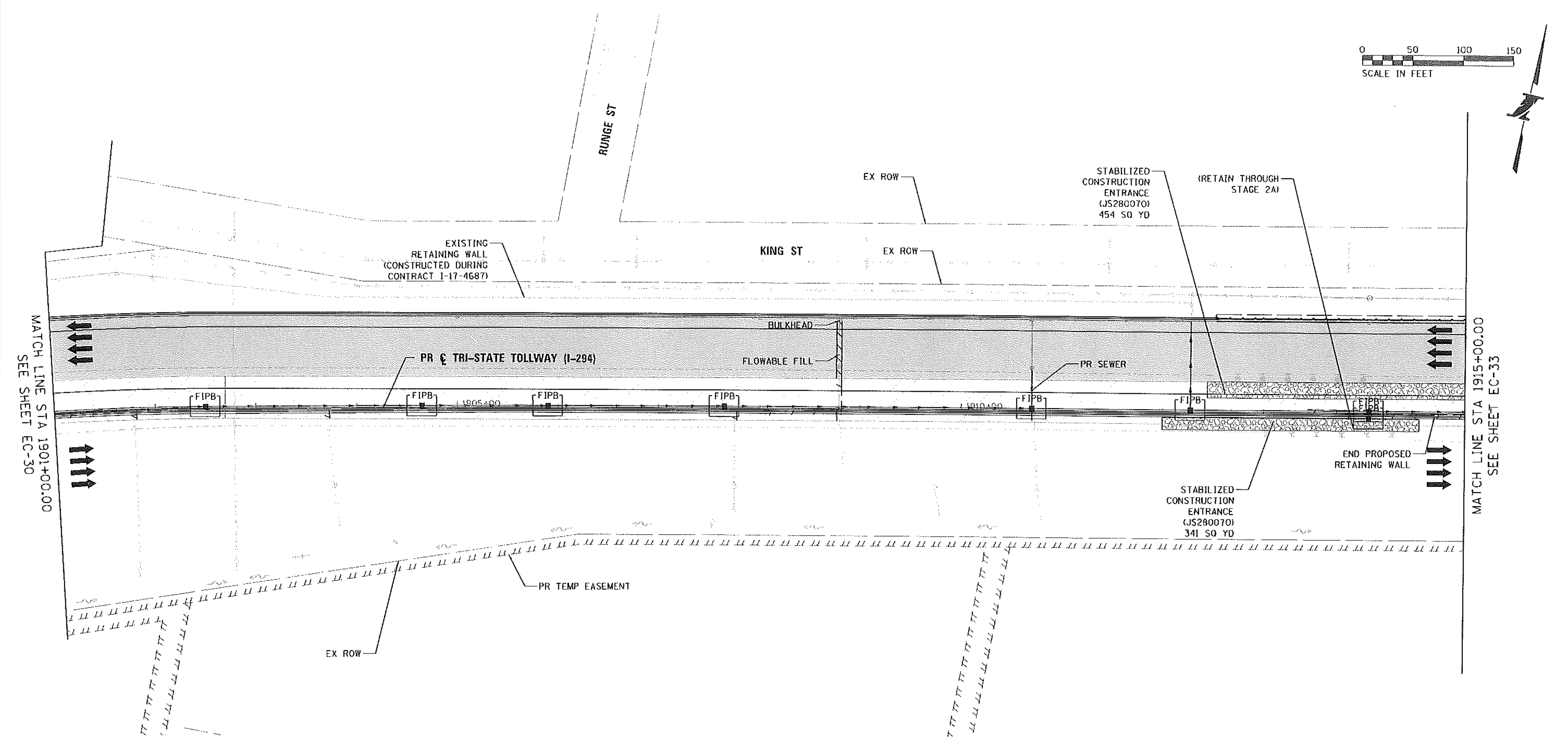
NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

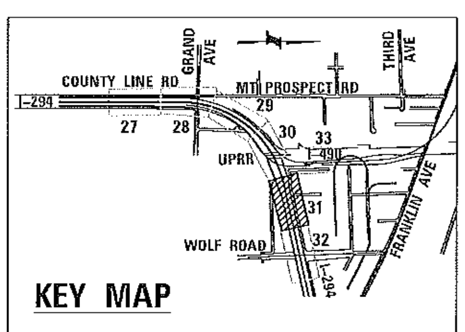


KEY MAP

DRAWN BY MHAYES	DATE 4/30/2020	CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY 2700 OGDEN AVENUE DOWNERS GROVE, ILLINOIS 60515	REVISIONS: NO. / DATE / DESCRIPTION	CONTRACT NO. I-17-4339	SHT NO. EC-29
CHECKED BY MANTAS	DATE 4/30/2020				EROSION CONTROL /TEMP DRAINAGE PLAN STAGE 2 - STA 1873+00 TO 1887+00	DRAWING NO. 375 OF 1740

43390-sht-eros-st2-003.dgn
32306





EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF — SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP — CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIPB — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC — FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC — INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP — TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL / TEMP DRAINAGE PLAN
STAGE 2 - STA 1901+00 TO 1915+00

SHT NO. EC-31

DRAWING NO. 377 OF 1740

4339B-sht-eros-st2-005.dgn
32386

END PAVEMENT RECONSTRUCTION
STA 1918+00.00 PR ℄ I-294 =
STA 1917+81.50 EX ℄ I-294

MATCH LINE STA 1915+00.00
SEE SHEET EC-31

KING ST

EX ROW

EX ROW

WOLF RD

EX ROW

KING ST

0 50 100 150
SCALE IN FEET

BULKHEAD

FLOWABLE FILL

PR SEWER

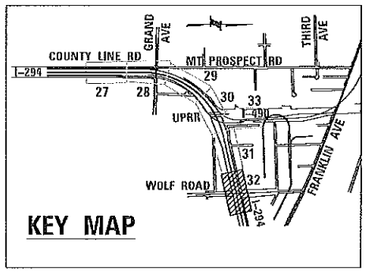
PR C TRI-STATE
TOLLWAY (I-294)

(RETAIN THROUGH
STAGE 2A)

PR TEMP EASEMENT

GAGE AVE

EX ROW



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127)
  TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211)
  TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK
  REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S.
  PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

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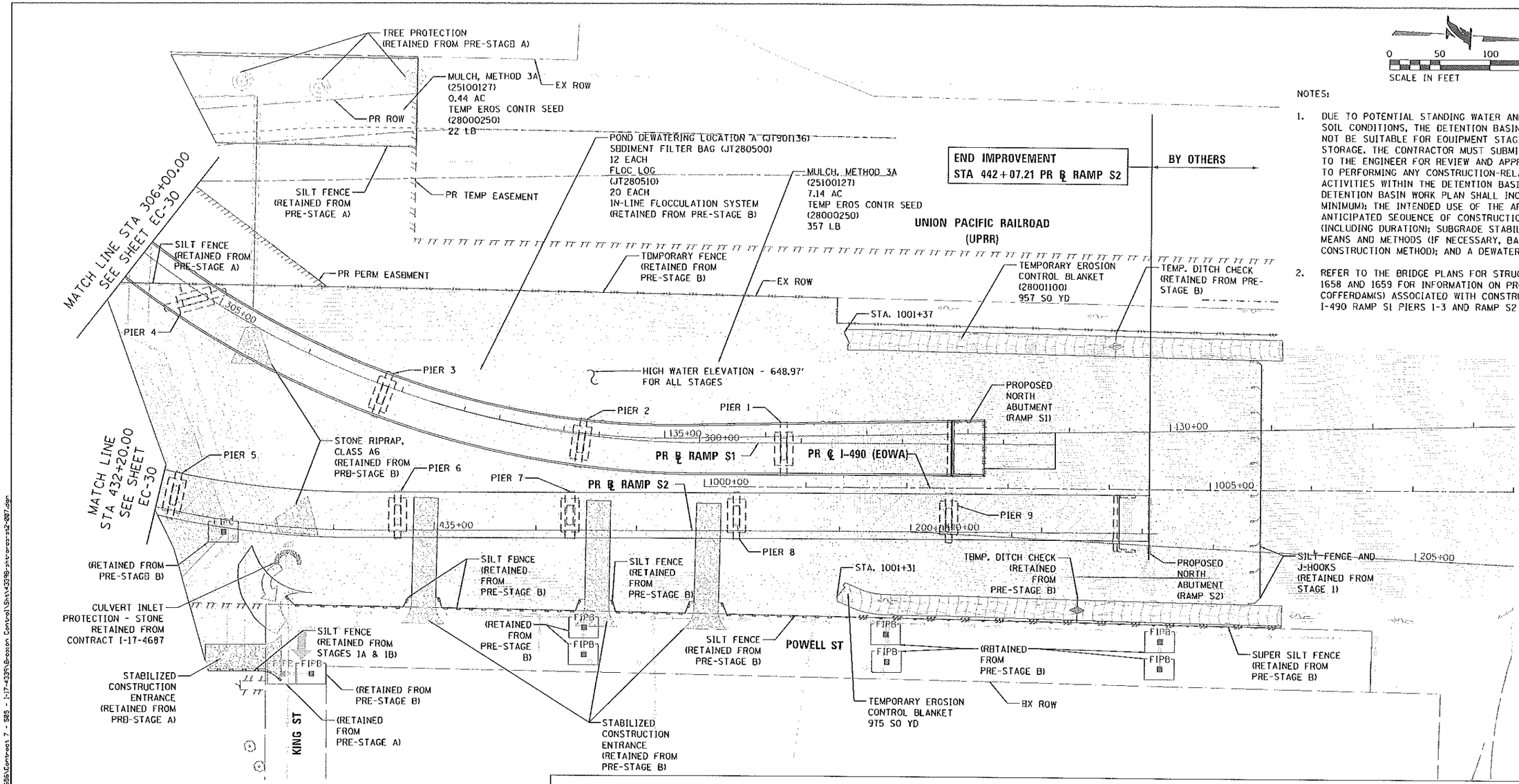
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

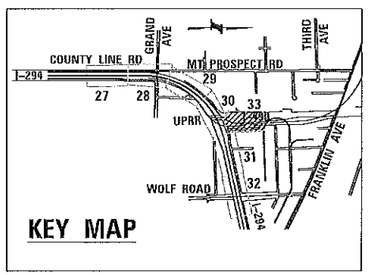
CONTRACT NO. I-17-4339
SHT NO. EC-32
EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 2 - STA 1915+00 TO 1929+00
DRAWING NO. 378 OF 1740

4339B-sht-eros-s12-006.dgn
32385



NOTES:

1. DUE TO POTENTIAL STANDING WATER AND SATURATED SOIL CONDITIONS, THE DETENTION BASIN AREA MAY NOT BE SUITABLE FOR EQUIPMENT STAGING/MATERIAL STORAGE. THE CONTRACTOR MUST SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CONSTRUCTION-RELATED ACTIVITIES WITHIN THE DETENTION BASIN. THE DETENTION BASIN WORK PLAN SHALL INCLUDE (AT A MINIMUM): THE INTENDED USE OF THE AREA; ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES (INCLUDING DURATION); SUBGRADE STABILIZATION MEANS AND METHODS (IF NECESSARY, BASED ON CONSTRUCTION METHOD); AND A DEWATERING PLAN.
2. REFER TO THE BRIDGE PLANS FOR STRUCTURE NUMBERS 1658 AND 1659 FOR INFORMATION ON PROPOSED COFFERDAM(S) ASSOCIATED WITH CONSTRUCTION OF I-490 RAMP S1 PIERS 1-3 AND RAMP S2 PIERS 6-8.



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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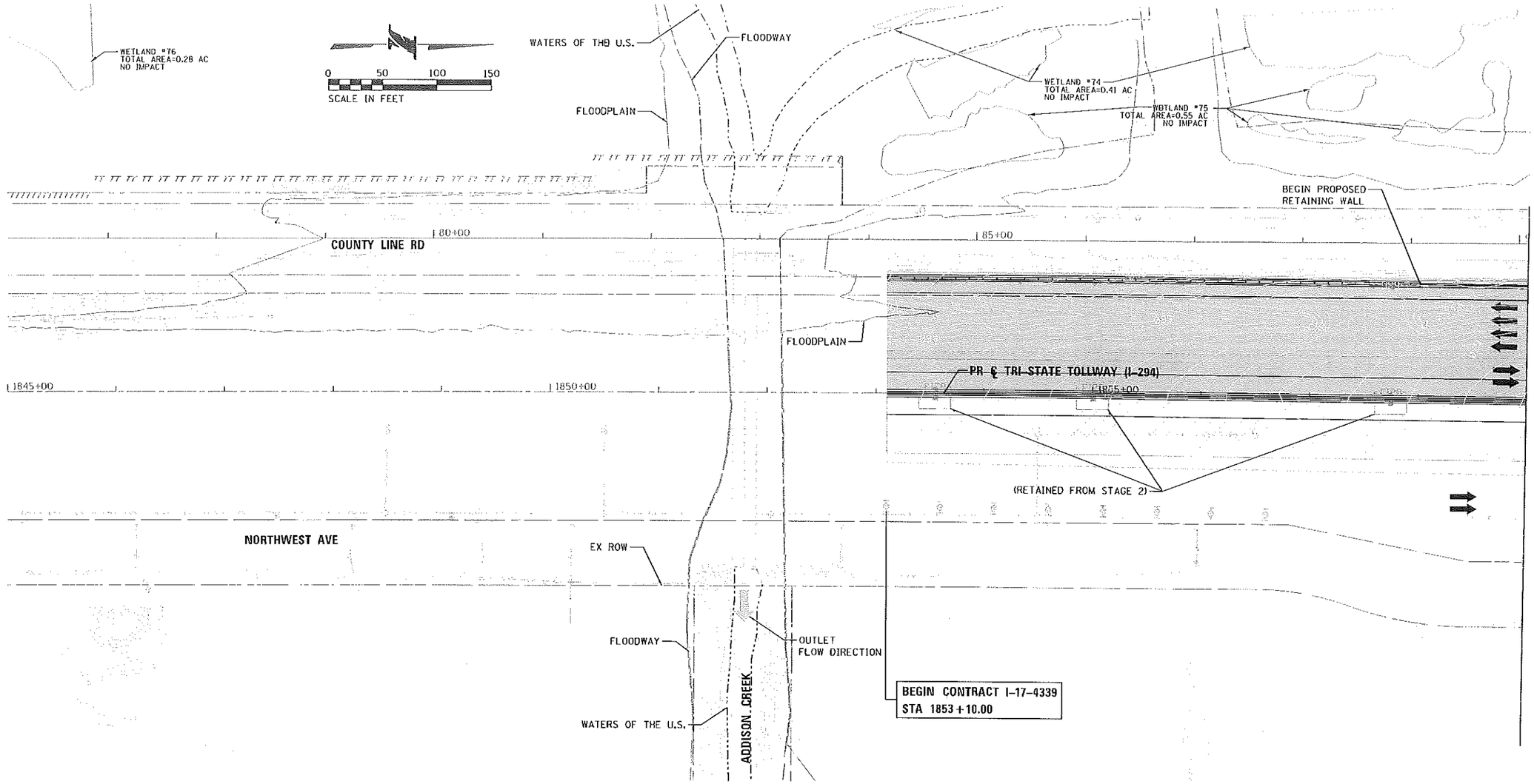
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 2 – STA 1000+00 TO 1008+00

SHT NO. EC-33
DRAWING NO. 379 OF 1740



NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127)
  TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211)
  TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK
  REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
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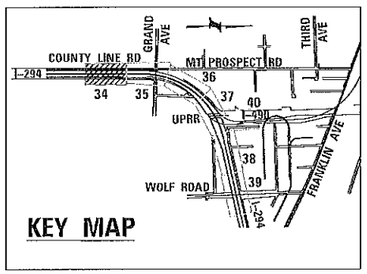
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S.
  PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- XXX TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.



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REVISIONS		
NO.	DATE	DESCRIPTION

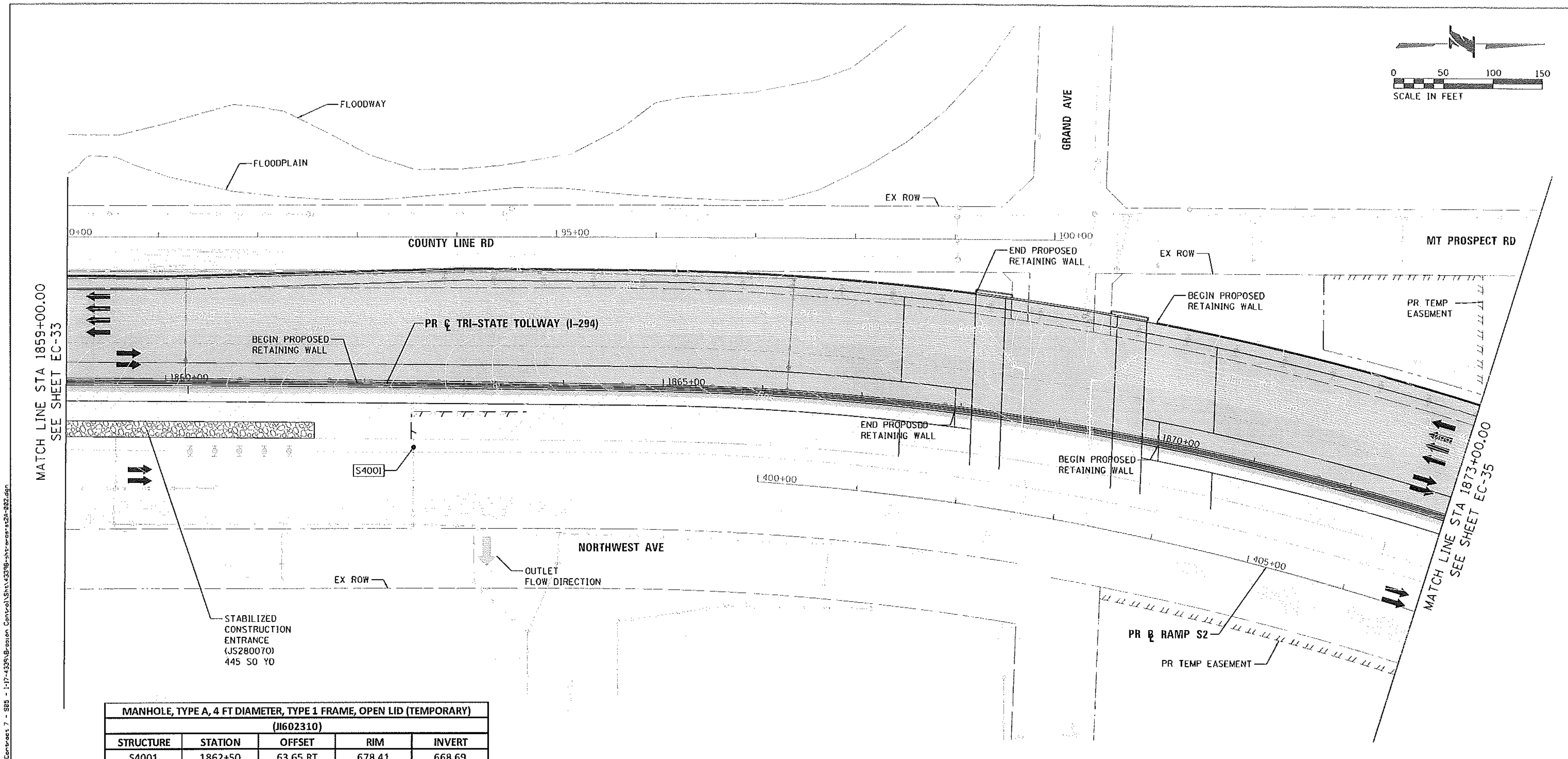
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 2A – STA 1845+00 TO 1859+00

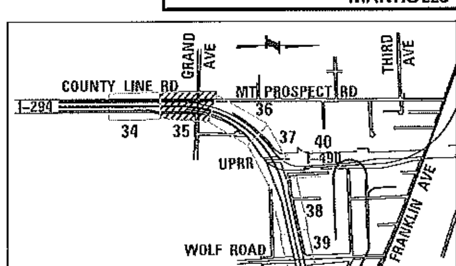
SHT NO. EC-34

DRAWING NO. 380 OF 1740

4339B-sht-eros-st2A-001.dgn
32386



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S4001	1862+50	63.65 RT	678.41	668.69
TOTAL		1		
MANHOLES TO BE REMOVED IN STAGE 3				



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP - CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP - RECTANGULAR INLET PROTECTION (JS280180)
- FIPB - FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC - FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC - INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP - TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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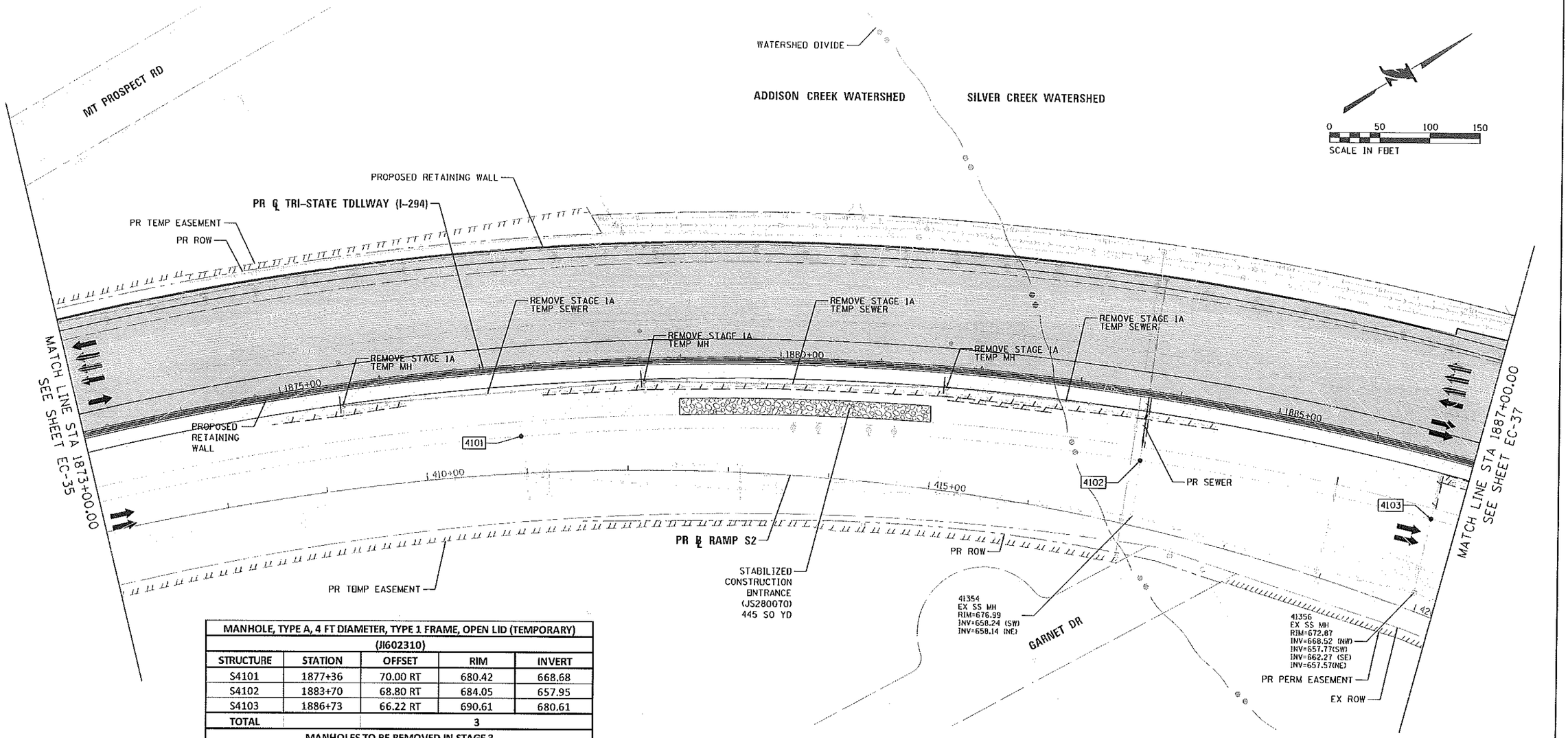
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

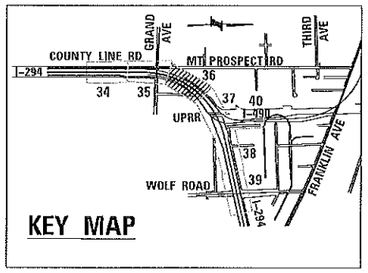
CONTRACT NO. I-17-4339

EROSION CONTROL / TEMP DRAINAGE PLAN
STAGE 2A - STA 1859+00 TO 1873+00

SHT NO. EC-35
DRAWING NO. 381 OF 1740



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY)				
(JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S4101	1877+36	70.00 RT	680.42	668.68
S4102	1883+70	68.80 RT	684.05	657.95
S4103	1886+73	66.22 RT	690.61	680.61
TOTAL			3	
MANHOLES TO BE REMOVED IN STAGE 3				



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

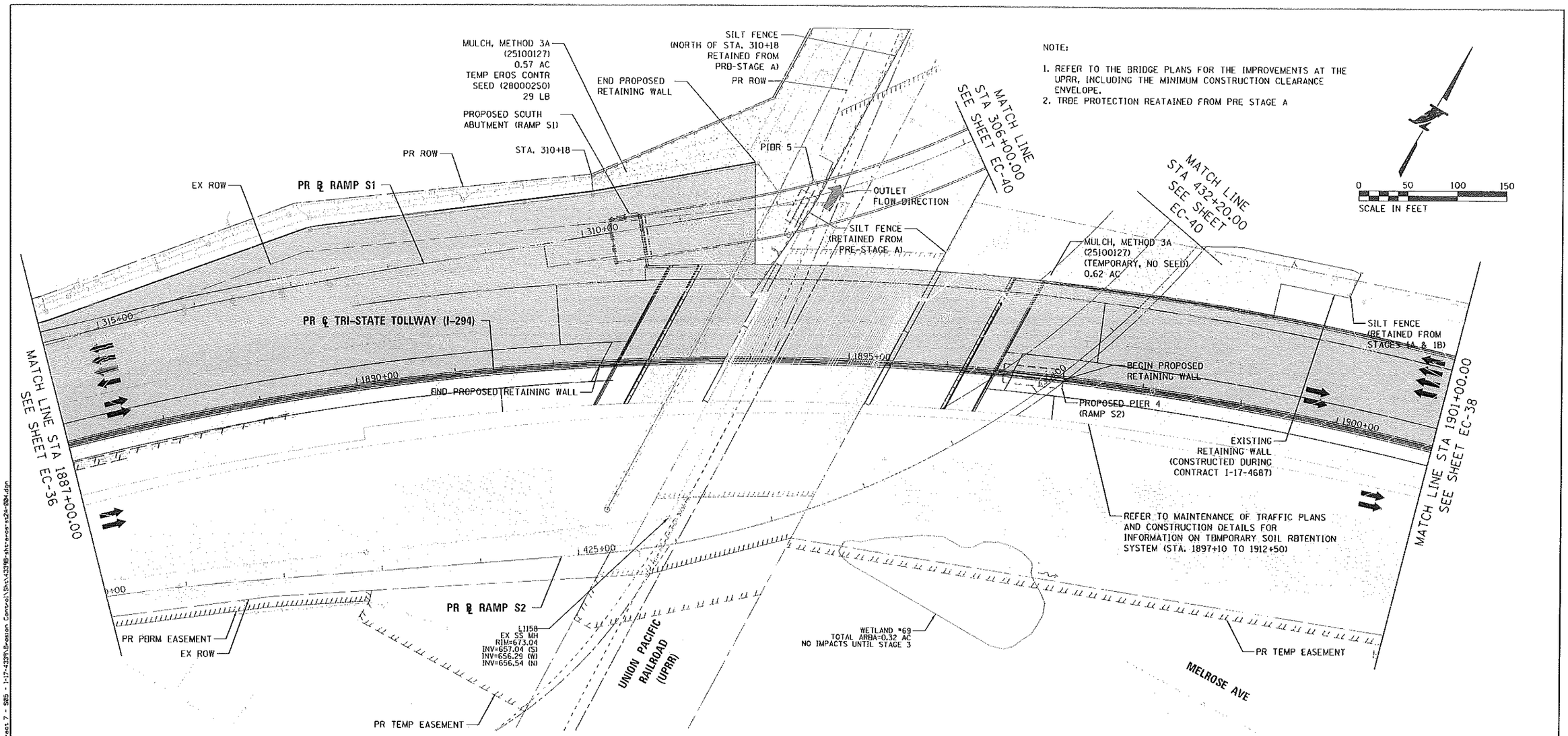
REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 2A - STA 1873+00 TO 1887+00

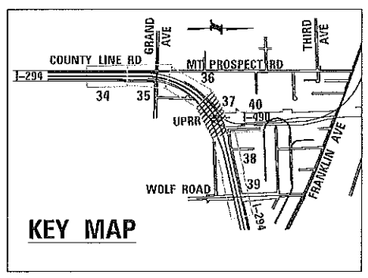
SHT NO. EC-36
DRAWING NO. 382 OF 1740

43398-sht-eros-st2A-003.dgn
32386



NOTE:

1. REFER TO THE BRIDGE PLANS FOR THE IMPROVEMENTS AT THE UPRR, INCLUDING THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.
2. TREE PROTECTION REATAINED FROM PRE STAGE A



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127)
  TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211)
  TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK
  REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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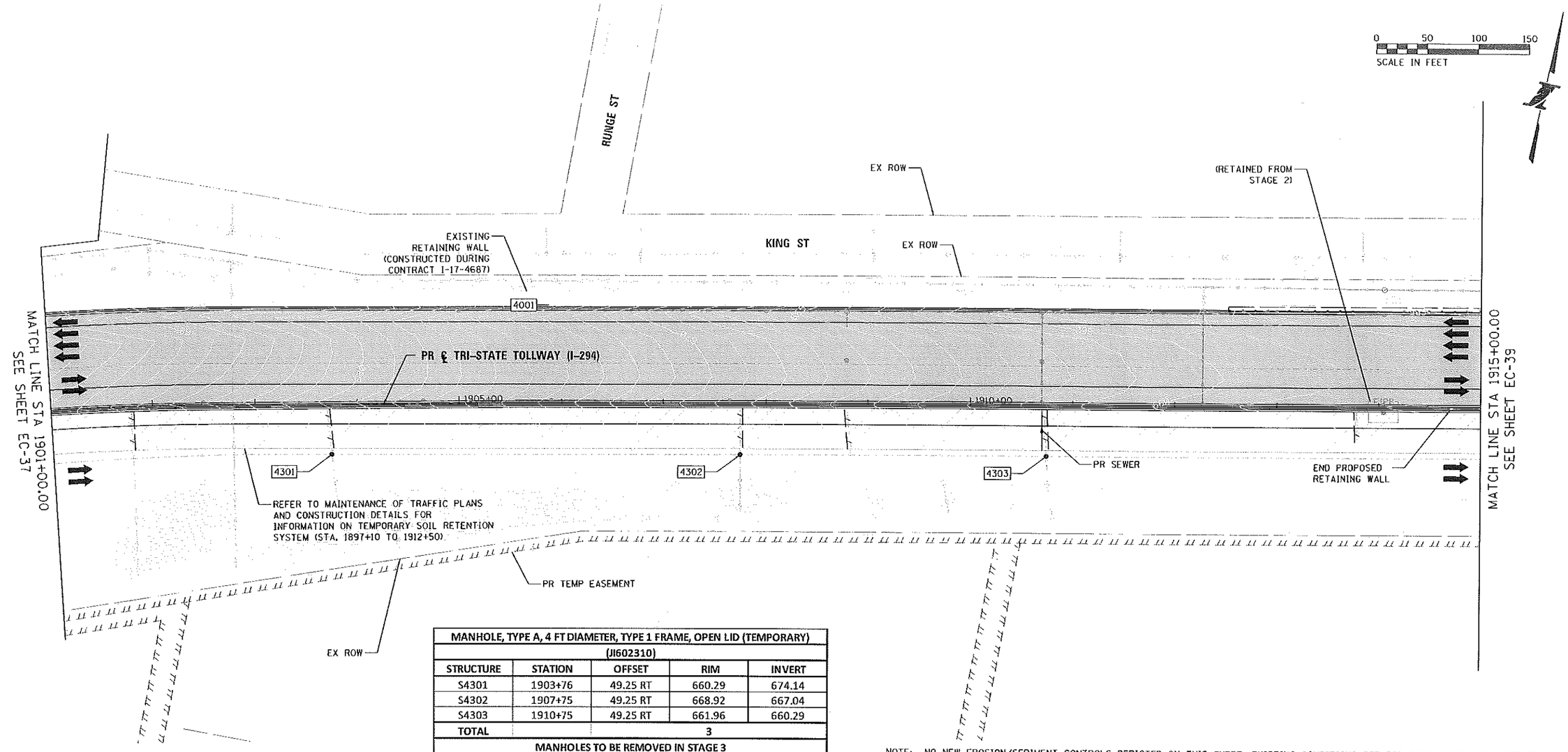
CONTRACT NO. I-17-4339

SHT NO. EC-37

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 2A – STA 1887+00 TO 1901+00

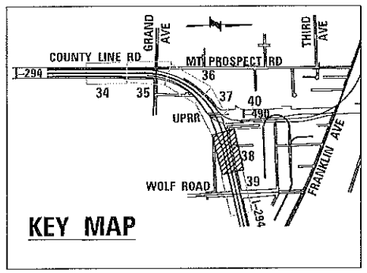
DRAWING NO. 383 OF 1740

43398-sht-eros-st2A-004.dgn
32386



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S4301	1903+76	49.25 RT	660.29	674.14
S4302	1907+75	49.25 RT	668.92	667.04
S4303	1910+75	49.25 RT	661.96	660.29
TOTAL			3	
MANHOLES TO BE REMOVED IN STAGE 3				

NOTE: NO NEW EROSION/SEDIMENT CONTROLS DEPICTED ON THIS SHEET. EXISTING CONDITIONS REFLECT COMPLETION OF CONTRACT I-17-4687.



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
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NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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NO.	DATE	DESCRIPTION

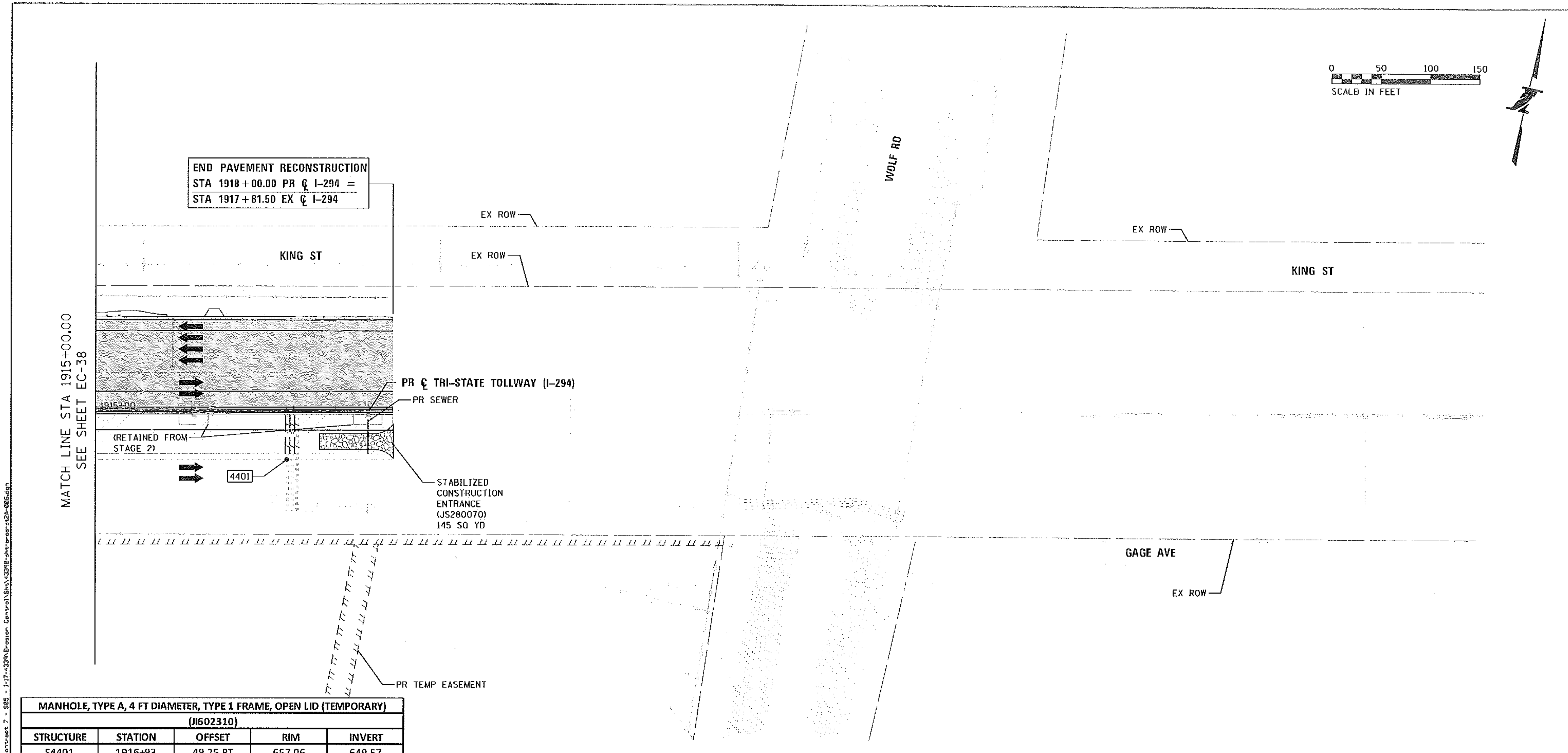
CONTRACT NO. I-17-4339

SHT NO. EC-38

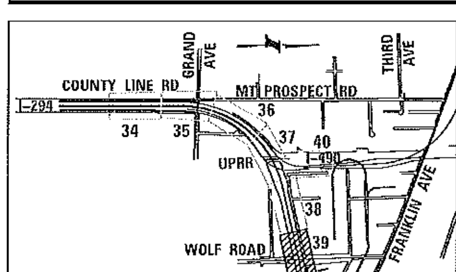
EROSION CONTROL /TEMP DRAINAGE PLAN STAGE 2A – STA 1901+00 TO 1915+00

DRAWING NO. 384 OF 1740

43398-sht-eros-st2A-885.dgn
32386



MANHOLE, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (TEMPORARY) (JI602310)				
STRUCTURE	STATION	OFFSET	RIM	INVERT
S4401	1916+93	49.25 RT	657.06	649.57
TOTAL		1		
MANHOLES TO BE REMOVED IN STAGE 3				



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP — CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
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- FIPB — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC — FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
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- IC — INITIAL CONSTRUCTION ITEM
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NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS: NO. | DATE | DESCRIPTION

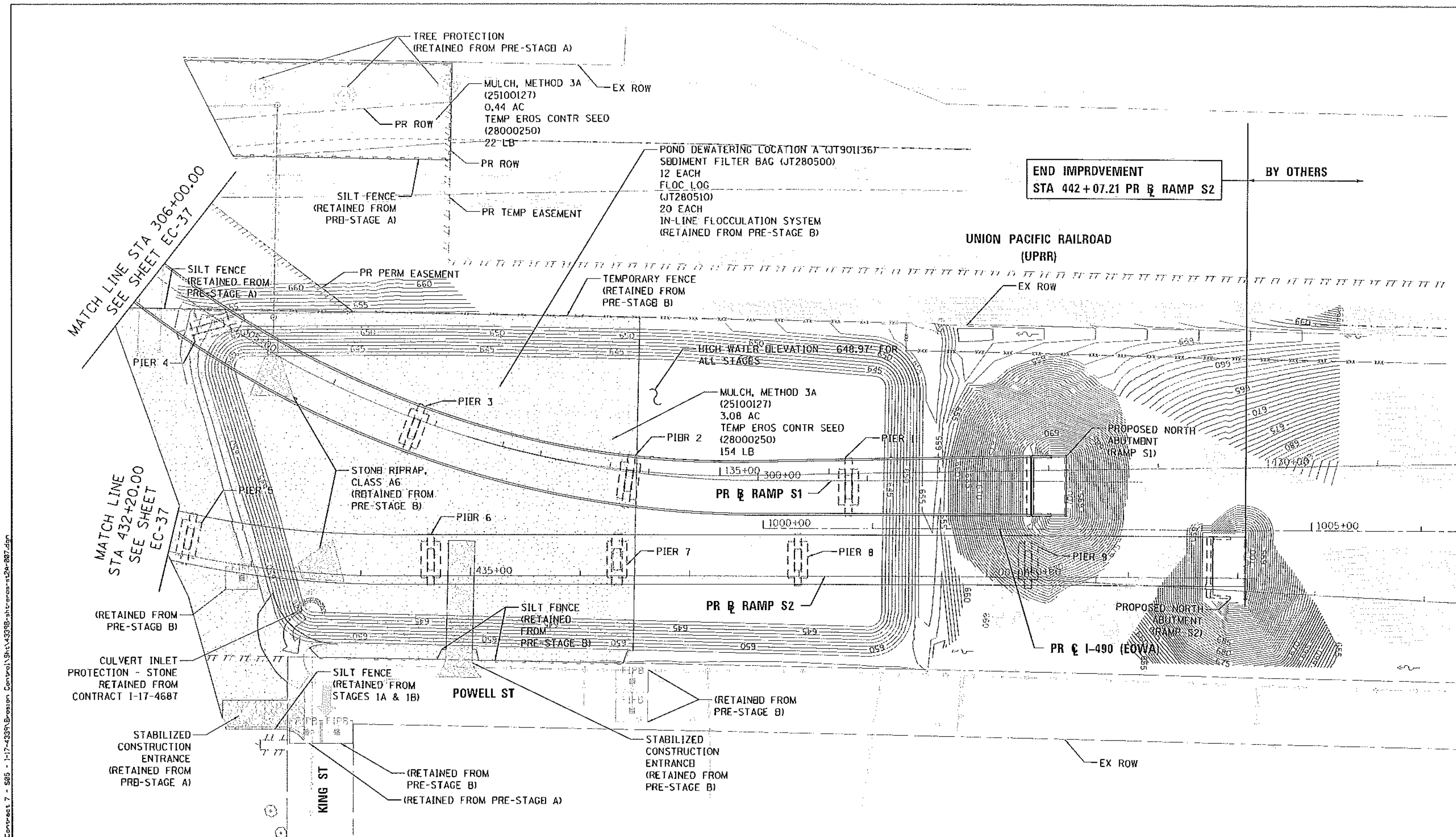
CONTRACT NO. I-17-4339

EROSION CONTROL/TEMP DRAINAGE PLAN
STAGE 2A – STA 1915+00 TO 1929+00

SHT NO. EC-39

DRAWING NO. 385 OF 1740

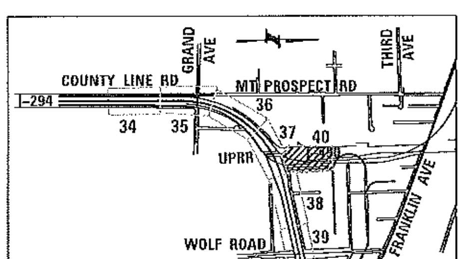
4339B-sht-eros-st2A-026.dgn
32306



0 50 100 150
SCALE IN FEET

NOTE:

DUE TO POTENTIAL STANDING WATER AND SATURATED SOIL CONDITIONS, THE DETENTION BASIN AREA MAY NOT BE SUITABLE FOR EQUIPMENT STAGING/MATERIAL STORAGE. THE CONTRACTOR MUST SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CONSTRUCTION-RELATED ACTIVITIES WITHIN THE DETENTION BASIN. THE DETENTION BASIN WORK PLAN SHALL INCLUDE (AT A MINIMUM): THE INTENDED USE OF THE AREA; ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES (INCLUDING DURATION); SUBGRADE STABILIZATION MEANS AND METHODS (IF NECESSARY, BASED ON CONSTRUCTION METHOD); AND A DEWATERING PLAN.



KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF — SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP — CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIPB — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC — FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC — INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP — TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- xxx — TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES	DATE 4/30/2020	CHECKED BY MANTAS	DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

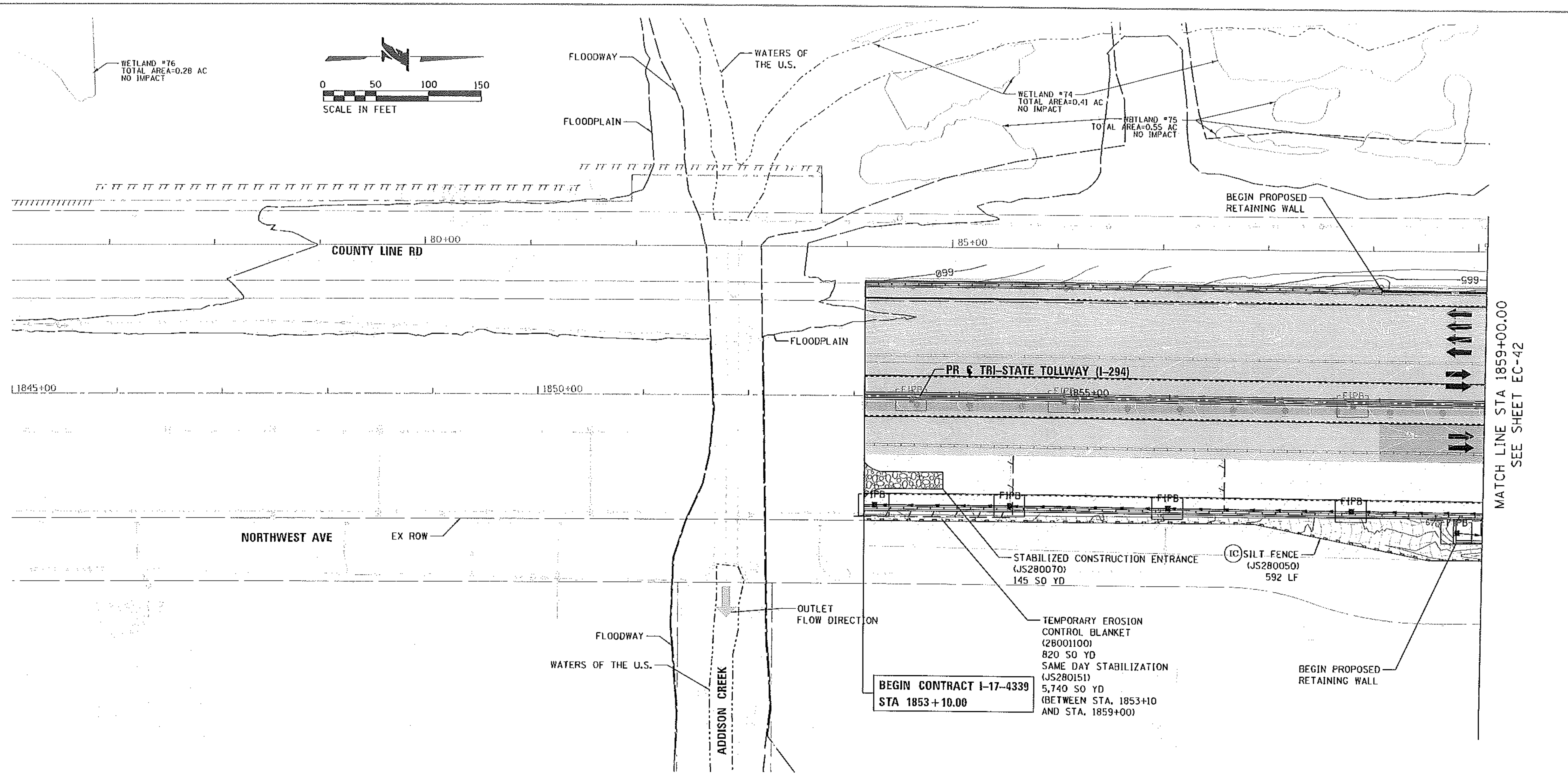
CONTRACT NO. I-17-4339

EROSION CONTROL/TEMP DRAINAGE PLAN
STAGE 2A - STA 1000+00 TO 1008+00

SHT NO. EC-40

DRAWING NO. 386 OF 1740

43398-sht-eros-st2A-007.dgn
32386



EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127)
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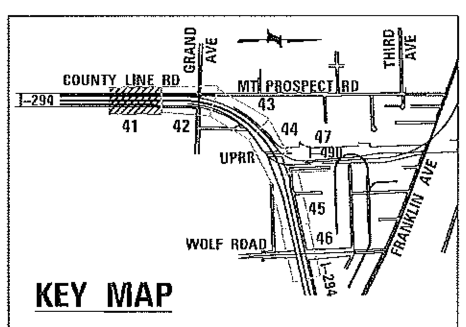
NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.



KEY MAP

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

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DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

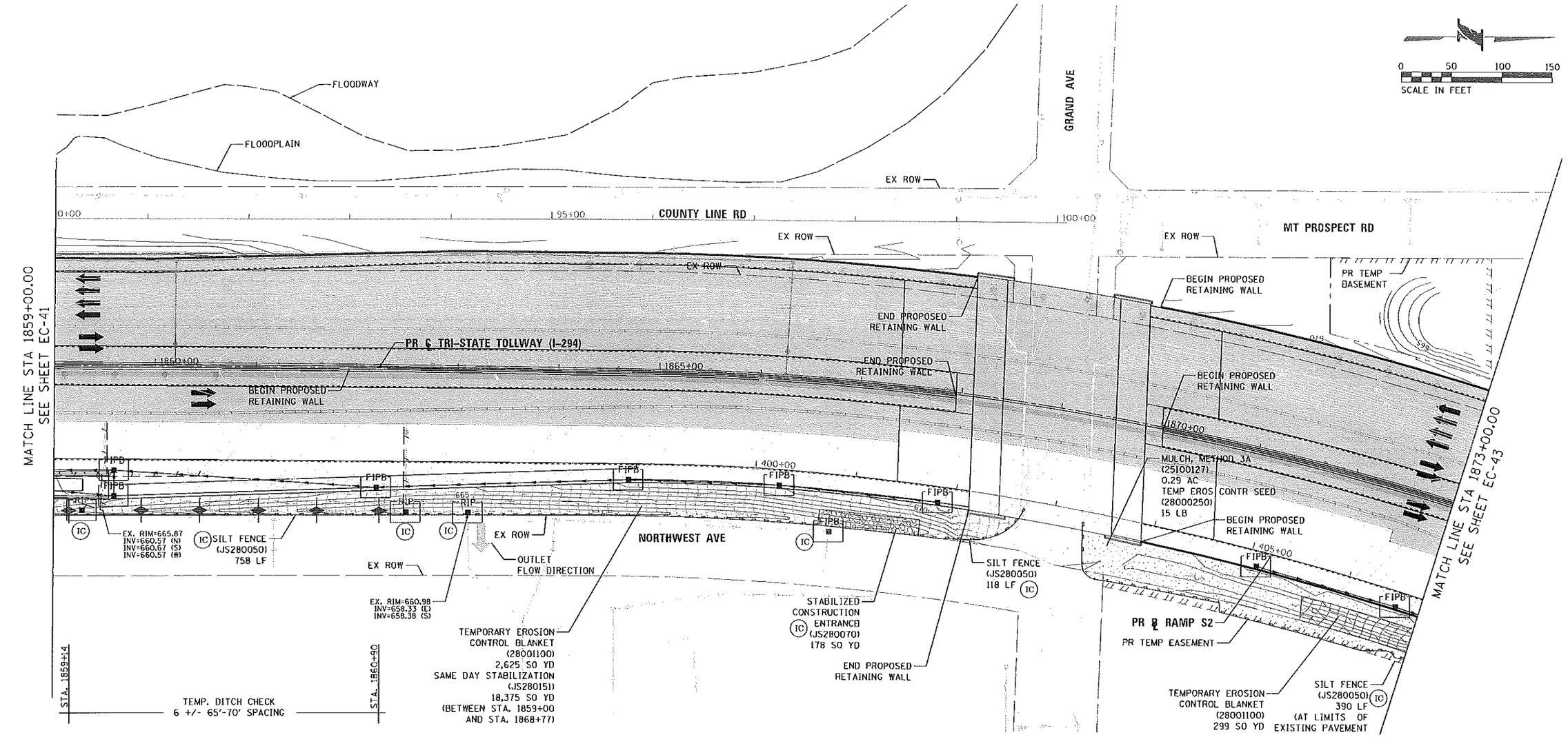
CONTRACT NO. I-17-4339

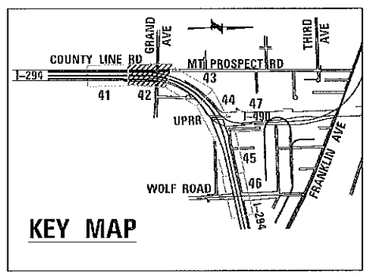
SHT NO. EC-41

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 3 - STA 1845+00 TO 1859+00

DRAWING NO. 387 OF 1740

4339B-sht-eros-st3-001.dgn
32386





EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
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- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

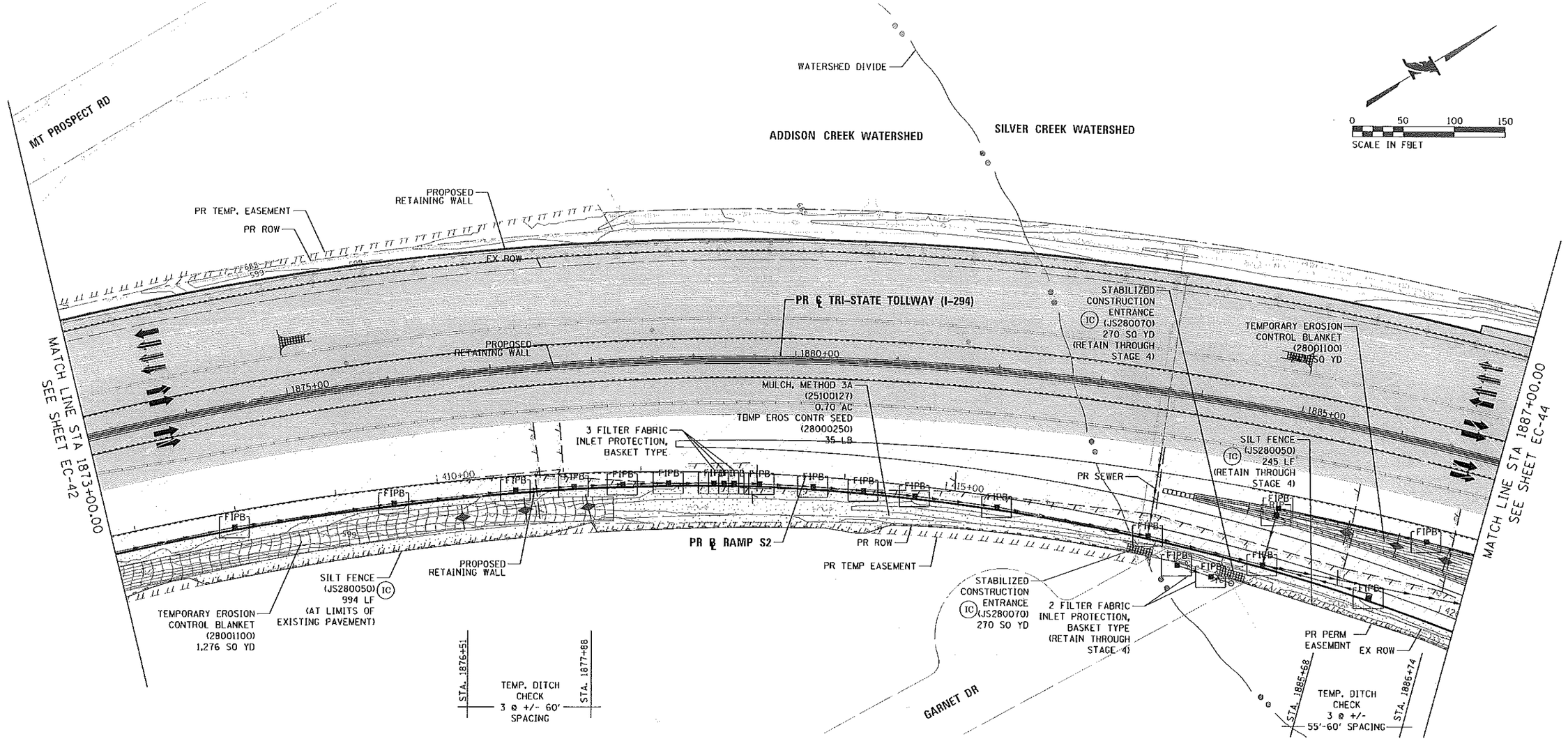
REVISIONS		
NO.	DATE	DESCRIPTION

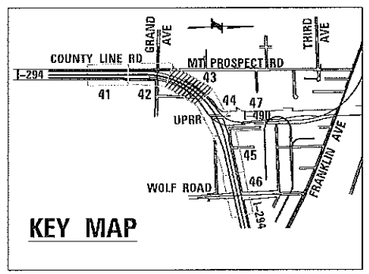
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 3 – STA 1859+00 TO 1873+00

SHT NO. EC-42
DRAWING NO. 388 OF 1740

4339-sht-eros-st3-002.dgn
32308





EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
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- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
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- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- (IC) INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339 — SHT NO. EC-43

EROSION CONTROL /TEMP DRAINAGE PLAN STAGE 3 – STA 1873+00 TO 1887+00 — DRAWING NO. 389 OF 1740

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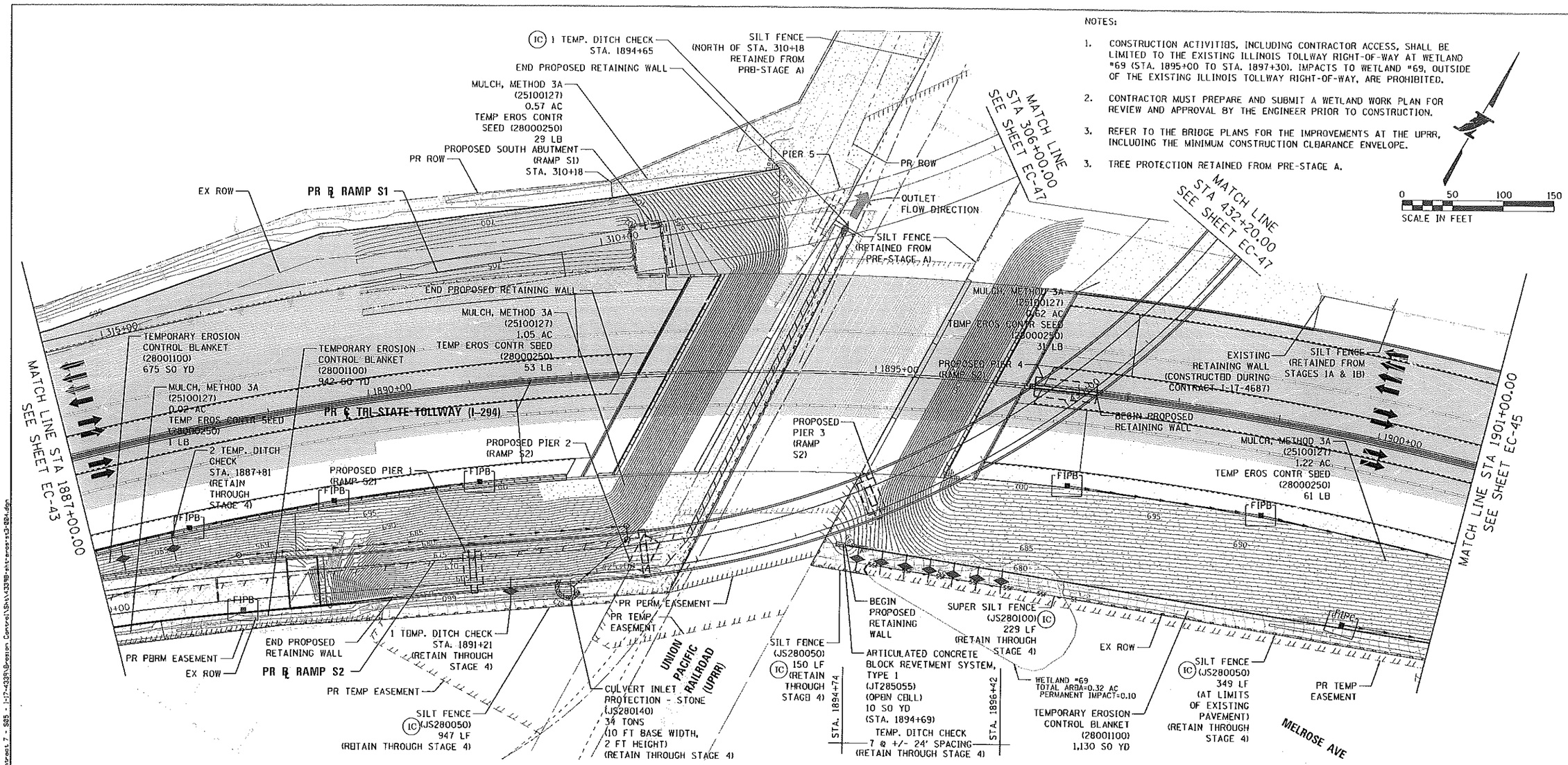
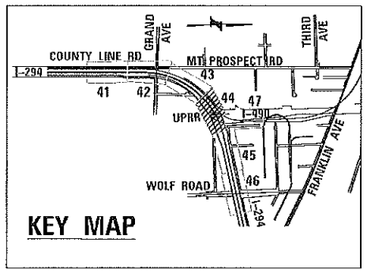
43398-sht-eros-st3-003.dgn
32368

NOTES:

1. CONSTRUCTION ACTIVITIES, INCLUDING CONTRACTOR ACCESS, SHALL BE LIMITED TO THE EXISTING ILLINOIS TOLLWAY RIGHT-OF-WAY AT WETLAND #69 (STA. 1895+00 TO STA. 1897+30). IMPACTS TO WETLAND #69, OUTSIDE OF THE EXISTING ILLINOIS TOLLWAY RIGHT-OF-WAY, ARE PROHIBITED.
2. CONTRACTOR MUST PREPARE AND SUBMIT A WETLAND WORK PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
3. REFER TO THE BRIDGE PLANS FOR THE IMPROVEMENTS AT THE UPRR, INCLUDING THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.
3. TREE PROTECTION RETAINED FROM PRE-STAGE A.

0 50 100 150
SCALE IN FEET





EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
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- WETLANDS
- (IC) INITIAL CONSTRUCTION ITEM
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NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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Rosemont, Illinois 60018
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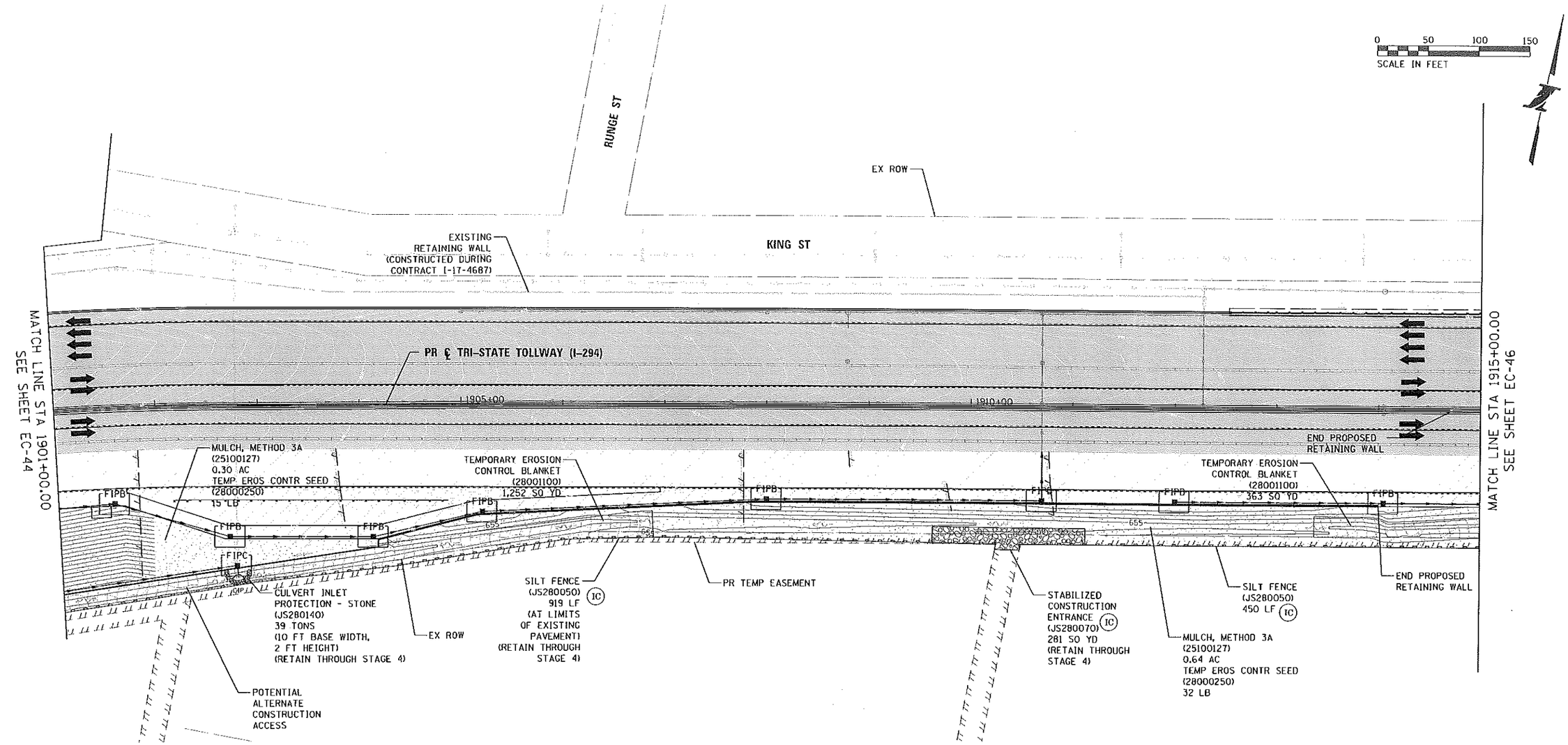
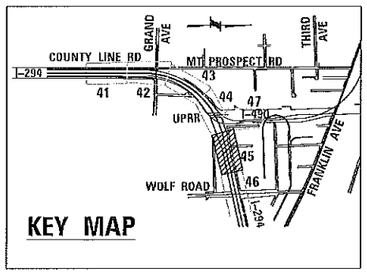
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339
SHT NO. EC-44
EROSION CONTROL /TEMP DRAINAGE PLAN STAGE 3 - STA 1887+00 TO 1901+00
DRAWING NO. 390 OF 1740

43398-sht-eros-st3-084.dgn
32386





EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
- FIPB FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- (IC) INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
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NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339 | SHT NO. EC-45

EROSION CONTROL /TEMP DRAINAGE PLAN STAGE 3 - STA 1901+00 TO 1915+00 | DRAWING NO. 391 OF 1740

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4339B-sht-eros-st3-005.dgn
32385

END PAVEMENT RECONSTRUCTION
STA 1918+00.00 PR ℄ I-294 =
STA 1917+81.50 EX ℄ I-294

KING ST

EX ROW

WOLF RD

EX ROW

EX ROW

KING ST

0 50 100 150
SCALE IN FEET

MATCH LINE STA 1915+00.00
SEE SHEET EC-45

1915+00

PR ℄ TRI-STATE TOLLWAY (I-294)

STABILIZED CONSTRUCTION ENTRANCE (JS280070) 145 SQ YD

MULCH, METHOD 3A (25100127) 0.08 AC
TEMP EROS CONTR SEED (28000250) 4 LB

FIPB

FIPB

1 TEMP. DITCH CHECK STA. 1894+65 (IC)

TEMPORARY EROSION CONTROL BLANKET (28001100) 699 SQ YD

SILT FENCE (JS280050) (IC) 261 LF

MULCH, METHOD 3A (25100127) 0.04 AC
TEMP EROS CONTR SEED (28000250) 2 LB

PR TEMP EASEMENT

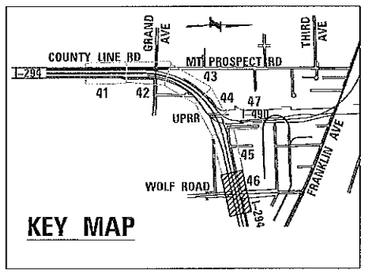
SILT FENCE (JS280050) (IC) 53 LF

STABILIZED CONSTRUCTION ENTRANCE (JS280070) (IC) 172 SQ YD

MULCH, METHOD 3A (25100127) 0.01 AC
TEMP EROS CONTR SEED (28000250) 1 LB

GAGE AVE

EX ROW



EROSION CONTROL LEGEND

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- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
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- DIRECTION OF TRAFFIC
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2700 OGDEN AVENUE
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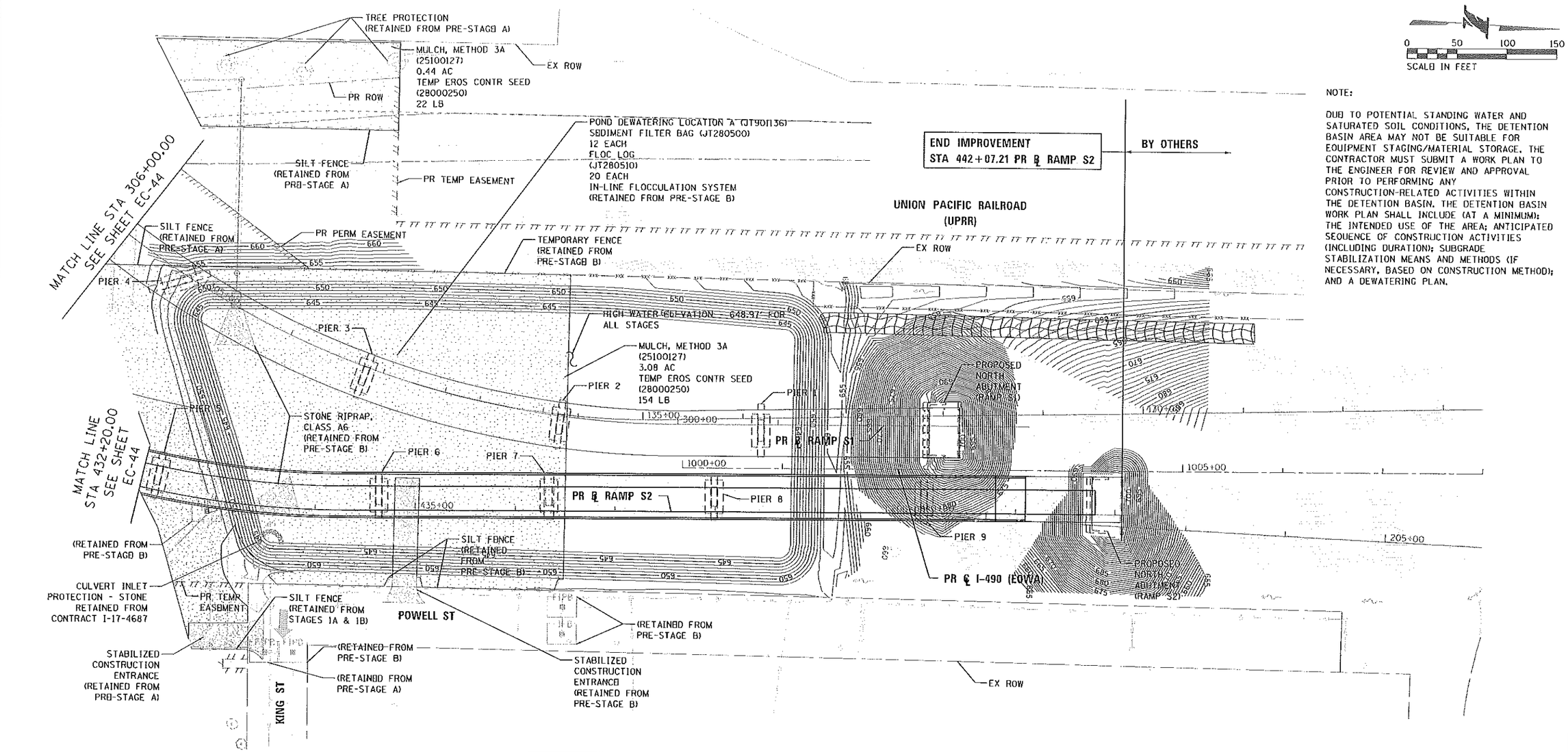
REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339
EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 3 - STA 1915+00 TO 1929+00

SHT NO. EC-46
DRAWING NO. 392 OF 1740

4339B-sht-eros-st3-026.dgn
32386



NOTE:

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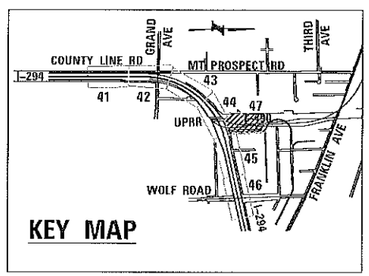

EROSION CONTROL LEGEND

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- STONE RIPRAP, CLASS A6 (28100211)
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- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RECTANGULAR INLET PROTECTION (JS280180)
- FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

DRAWN BY MHAYES DATE 4/30/2020
CHECKED BY MANTAS DATE 4/30/2020

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
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(847) 823-0500

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

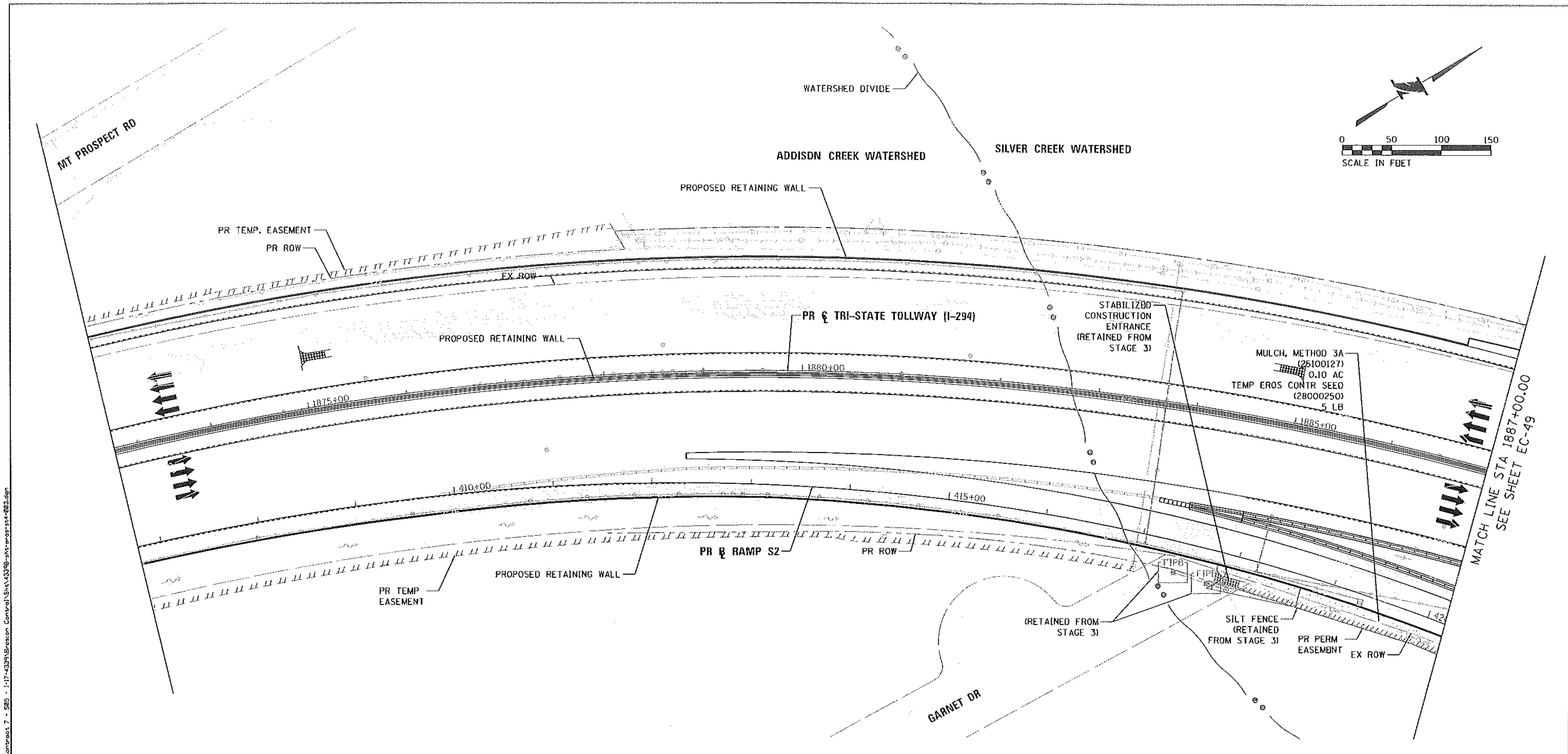
REVISIONS		
NO.	DATE	DESCRIPTION

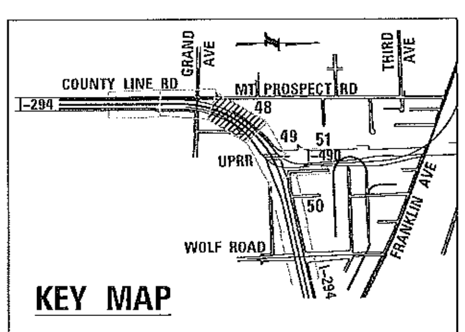
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 3 – STA 1000+00 TO 1008+00

SHT NO. EC-47
DRAWING NO. 393 OF 1740

43398-sht-eros-st3-007.dgn
32305





KEY MAP

EROSION CONTROL LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
- PREVIOUSLY COMPLETED CONSTRUCTION
- DIRECTION OF TRAFFIC
- MULCH, METHOD 3A (25100127) TEMPORARY EROSION CONTROL SEEDING (28000250)
- TEMPORARY EROSION CONTROL BLANKET (28001100)
- SILT FENCE (JS280050)
- SSF – SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS280140)
- CIP – CULVERT INLET PROTECTION-STONE (JS280140)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (JT285055)
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- FIPB – FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- FIPC – FILTER FABRIC INLET PROTECTION, COVER TYPE (JS280205)
- WETLAND/WATERS OF THE U.S. PERMANENT IMPACT
- WETLANDS
- IC – INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
- TP – TREE PROTECTION (JS280120)
- TEMPORARY DITCH CHECKS (JS280305)
- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL / TEMP DRAINAGE PLAN
STAGE 4 – STA 1873+00 TO 1887+00

SHT NO. EC-48

DRAWING NO. 394 OF 1740

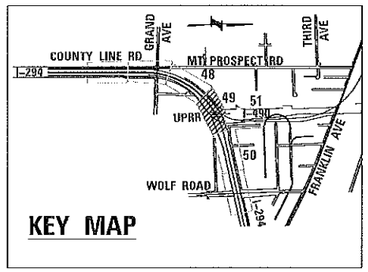
4339B-sht-eros-st4-003.dgn
32386

NOTES:

1. CONSTRUCTION ACTIVITIES, INCLUDING CONTRACTOR ACCESS, SHALL BE LIMITED TO THE EXISTING ILLINOIS TOLLWAY RIGHT-OF-WAY AT WETLAND #69 (STA. 1895+00 TO STA. 1897.30). IMPACTS TO WETLAND #69, OUTSIDE OF THE EXISTING ILLINOIS TOLLWAY RIGHT-OF-WAY, ARE PROHIBITED.
2. REFER TO THE BRIDGE PLANS FOR THE IMPROVEMENTS AT THE UPRR, INCLUDING THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.

0 50 100 150
SCALE IN FEET

END PROPOSED RETAINING WALL
PR ROW
PROPOSED NORTH ABUTMENT (RAMP S1)
PR ROW
EX ROW
PR ℄ RAMP S1
PIER 4
OUTLET FLOW DIRECTION
SILT FENCE (RETAINED FROM PRE-STAGE A)
MATCH LINE STA 306+00.00 SEE SHEET EC-51
MATCH LINE STA 432+20.00 SEE SHEET EC-51
MATCH LINE STA 1887+00.00 SEE SHEET EC-48
MATCH LINE STA 1901+00.00 SEE SHEET EC-50
1310+00
1315+00
1890+00
1895+00
1900+00
1425+00
MULCH, METHOD 3A (25100127) 0.92 AC
TEMP EROS CONTR SEED (28000250) 46 LB
TEMPORARY EROSION CONTROL BLANKET (28001100) 942 SQ YD
TEMPORARY EROSION CONTROL BLANKET (28001100) 479 SQ YD
END PROPOSED RETAINING WALL
PR ℄ TRI-STATE TOLLWAY (I-294)
MULCH, METHOD 3A (25100127) 0.62 AC
TEMP EROS CONTR SEED (28000250) 31 LB
PROPOSED PIER 4 (RAMP S2)
EXISTING RETAINING WALL (CONSTRUCTED DURING CONTRACT I-17-4687)
SILT FENCE (RETAINED FROM STAGES 1A & 1B)
BEGIN PROPOSED RETAINING WALL
PROPOSED PIER 2 (RAMP S2)
PROPOSED PIER 1 (RAMP S2)
PROPOSED PIER 3 (RAMP S2)
MULCH, METHOD 3A (25100127) 0.02 AC
TEMP EROS CONTR SEED (28000250) 1 LB
MULCH, METHOD 3A (25100127) 0.29 AC
TEMP EROS CONTR SEED (28000250) 15 LB
TEMP. DITCH CHECK (RETAINED FROM STAGE 3)
PR PERM EASEMENT
PR TEMP EASEMENT
SILT FENCE (RETAINED FROM STAGE 3)
END PROPOSED RETAINING WALL
PR PERM EASEMENT
EX ROW
PR ℄ RAMP S2
PR TEMP EASEMENT
TEMP. DITCH CHECK (RETAINED FROM STAGE 3)
CULVERT INLET PROTECTION - STONE (RETAINED FROM STAGE 3)
UNION PACIFIC RAILROAD (UPRR)
SILT FENCE (RETAINED FROM STAGE 3)
BEGIN PROPOSED RETAINING WALL
SUPER SILT FENCE (RETAINED FROM STAGE 3)
TEMP. DITCH CHECKS (RETAINED FROM STAGE 3)
WETLAND #69 TOTAL AREA=0.32 AC PERMANENT IMPACT=0.10 (IMPACTS FROM STAGE 3)
EX ROW
SILT FENCE (RETAINED FROM STAGE 3)
PR TEMP EASEMENT
TEMPORARY EROSION CONTROL BLANKET (28001100) 1,123 SQ YD
MELROSE AVE



KEY MAP

EROSION CONTROL LEGEND

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- TEMPORARY PAVEMENT INSTALLED IN PREVIOUS STAGE
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- SILT FENCE (JS28D050)
- SSF - SUPER SILT FENCE (JS280100)
- DRAINAGE REMOVAL
- STONE RIPRAP, CLASS A6 (28100211) TEMPORARY RIPRAP (JS28D140)
- CIP CULVERT INLET PROTECTION-STONE (JS28D14D)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- PROPOSED DRAINAGE PATH
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (JT285055)
- RIP RECTANGULAR INLET PROTECTION (JS280180)
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- WETLANDS
- IC INITIAL CONSTRUCTION ITEM
- PRESERVED TREE
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- TEMPORARY FENCE (20101000)

NOTE: REFER TO THE MAINTENANCE OF TRAFFIC LEGEND FOR THE DEFINITION OF ADDITIONAL SYMBOLS.

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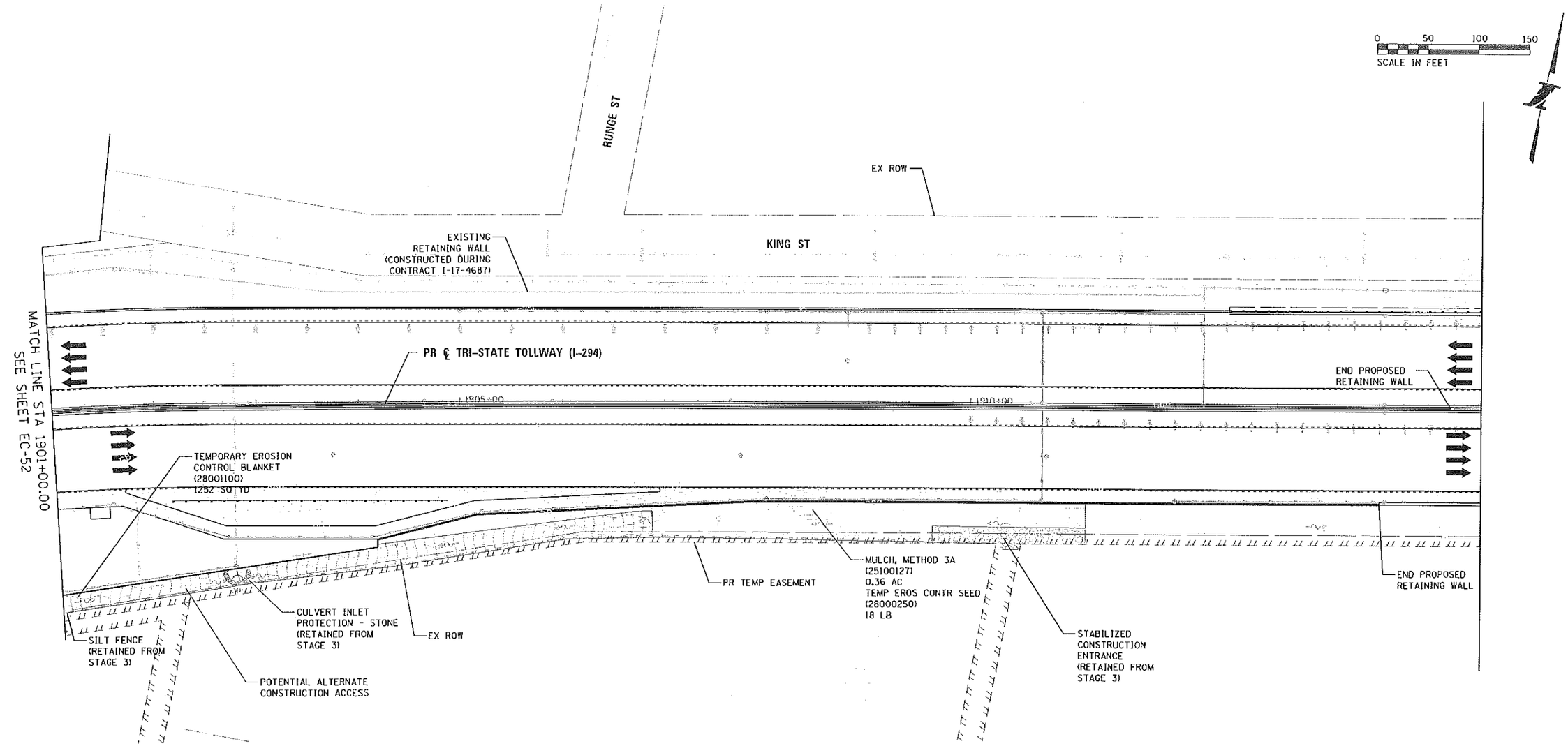
REVISIONS		
NO.	DATE	DESCRIPTION

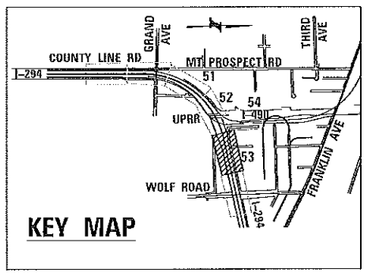
CONTRACT NO. I-17-4339

EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 4 - STA 1887+00 TO 1901+00

SHT NO. EC-49
DRAWING NO. 395 OF 1740

43398-sht-eros-st4-004.dgn
32306





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REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339
EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 4 – STA 1901+00 TO 1915+00

SHT NO. EC-50
DRAWING NO. 396 OF 1740

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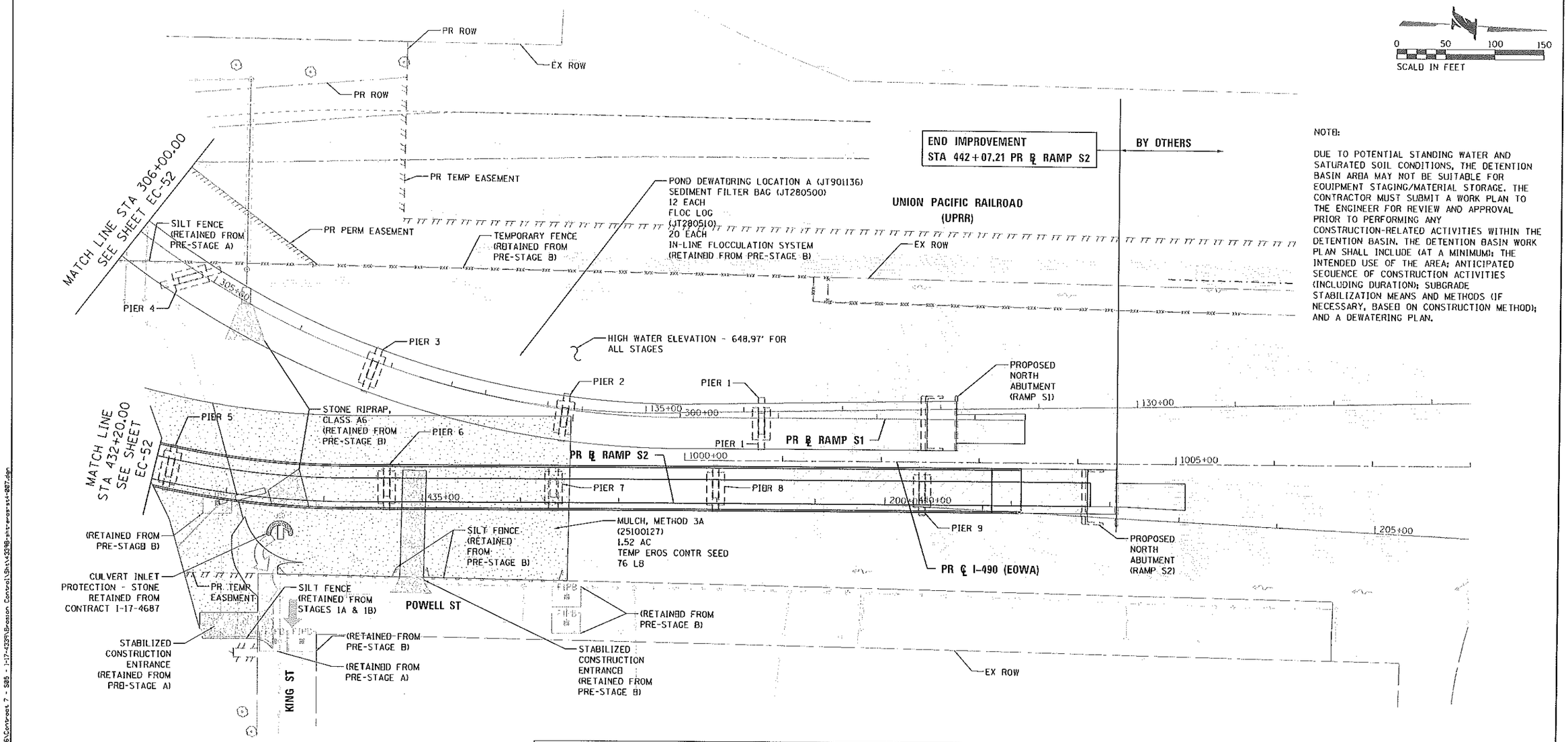
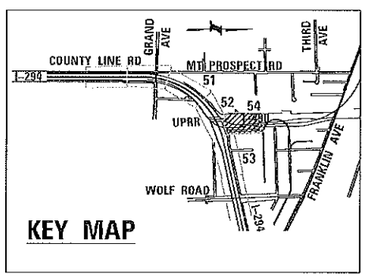
32305



NOTE:

DUE TO POTENTIAL STANDING WATER AND SATURATED SOIL CONDITIONS, THE DETENTION BASIN AREA MAY NOT BE SUITABLE FOR EQUIPMENT STAGING/MATERIAL STORAGE. THE CONTRACTOR MUST SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING ANY CONSTRUCTION-RELATED ACTIVITIES WITHIN THE DETENTION BASIN. THE DETENTION BASIN WORK PLAN SHALL INCLUDE (AT A MINIMUM): THE INTENDED USE OF THE AREA; ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES (INCLUDING DURATION); SUBGRADE STABILIZATION MEANS AND METHODS (IF NECESSARY, BASED ON CONSTRUCTION METHOD); AND A DEWATERING PLAN.



EROSION CONTROL LEGEND

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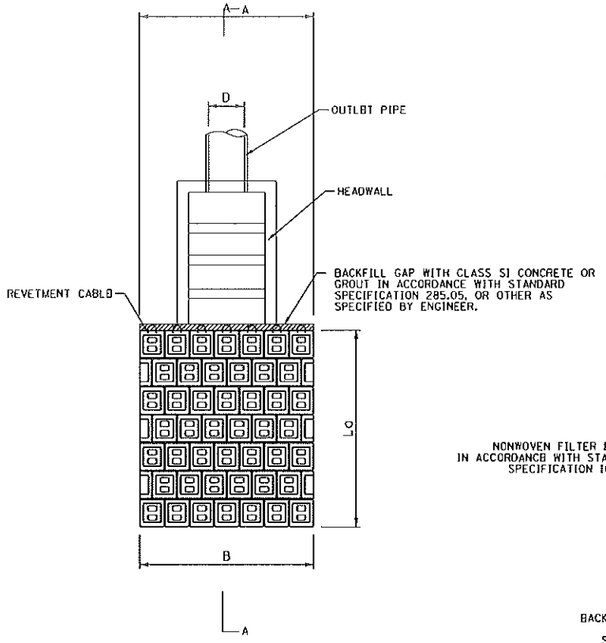
REVISIONS		
NO.	DATE	DESCRIPTION

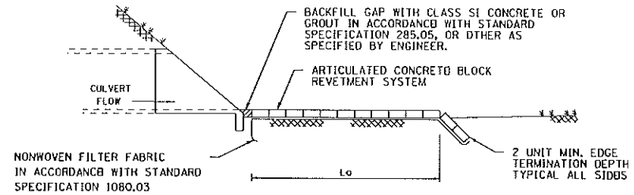
CONTRACT NO. I-17-4339
SHT NO. EC-51
EROSION CONTROL /TEMP DRAINAGE PLAN
STAGE 4 – STA 1000+00 TO 1008+00
DRAWING NO. 397 OF 1740

43398-sht-eros-st4-007.dgn
32306



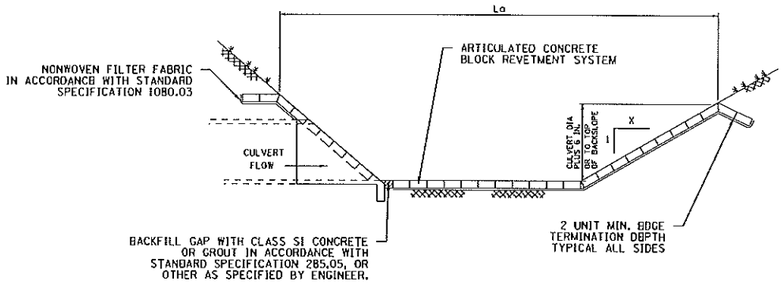
OULET PROTECTION DETAIL

(NOT TO SCALE)



SECTION A-A (NO DEFINED CHANNEL)

(NOT TO SCALE)

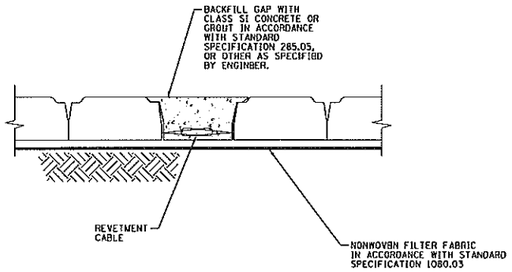


SECTION A-A (DEFINED CHANNEL)

(NOT TO SCALE)

ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (ACBRS) SCHEDULE

SHEET NO.	STATION NO.	D (IN)	A (FT)	Lo (FT)	B (FT)	BLOCK TYPE	BLOCK CONFIGURATION	MAT CONFIGURATION	ACBRS (SQ YD)
EC-14	433+50 (I-490, RAMP S2)	N/A	VARIABLE			1	OPEN CELL	INTERLOCKING	466
LP-03	1884+78 TO 1887+00 (I-294)	N/A	VARIABLE			1	CLOSED CELL	INTERLOCKING	378
LP-04	1887+00 TO 1893+57 (I-294)	N/A	VARIABLE			1	CLOSED CELL	INTERLOCKING	5,429



TYPICAL MAT TO MAT

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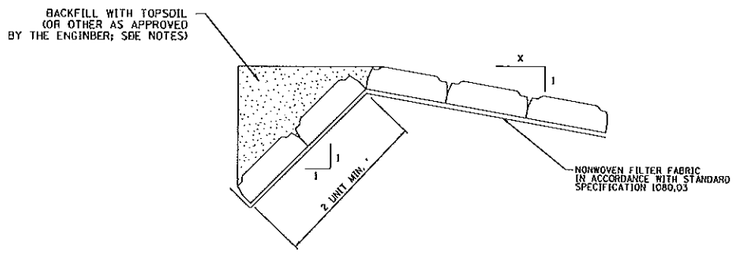
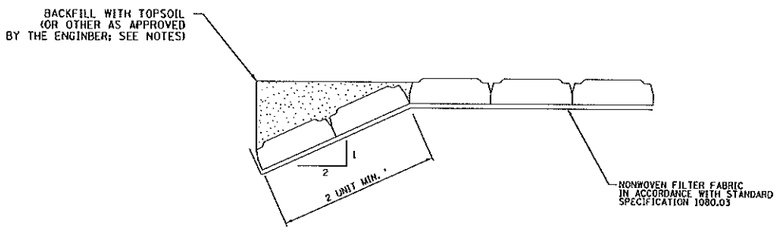


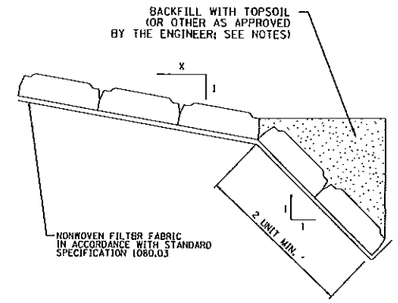
TOP OF SLOPE EDGE TERMINATION DETAIL

(NOT TO SCALE)



GROUND EGDE TERMINATION DETAIL

(NOT TO SCALE)



TOE OF SLOPE EDGE TERMINATION DETAIL

(NOT TO SCALE)

NOTES:

1. THE AREA OF MEASUREMENT WILL INCLUDE THE COMPLETE INSTALLED MATS, INCLUDING BOTH THE VISIBLE AREA AND THE BURIED EDGE PORTIONS OF THE INSTALLATION WHICH ARE NOT VISIBLE UPON PROJECT COMPLETION (EDGE TERMINATION).
2. EACH BLOCK SHALL INCORPORATE INTERLOCKING SURFACES THAT MINIMIZE LATERAL DISPLACEMENT OF THE BLOCKS WITHIN THE MATS WHEN THEY ARE LIFTED BY THE LONGITUDINAL REVETMENT CABLES. HAND PLACED INTERLOCKING BLOCKS ARE ALSO ACCEPTABLE.
3. THE NONWOVEN FILTER FABRIC SHALL BE INCLUDED IN THE COST OF THE ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM OF THE TYPE SPECIFIED.
4. THE TOP OF BLOCK ELEVATION SHALL BE AT OR BELOW THE DITCH FLOW LINE.
5. THE TERMINATION TRENCH FOR OPEN CELL ACBRS SHALL BE BACKFILLED WITH TOPSOIL. THE TERMINATION TRENCH FOR CLOSED CELL ACBRS SHALL BE BACKFILLED WITH 4,000 PSI CONCRETE, GROUT, OR OTHER AS SPECIFIED BY THE MANUFACTURER AND AS APPROVED BY THE ENGINEER.

M-DRN-603

Illinois Tollway

ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM

DATE 3-01-2018

DRAWN BY MHAYES DATE 4/30/2020

CHECKED BY MANTAS DATE 4/30/2020

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REVISIONS		
NO.	DATE	DESCRIPTION

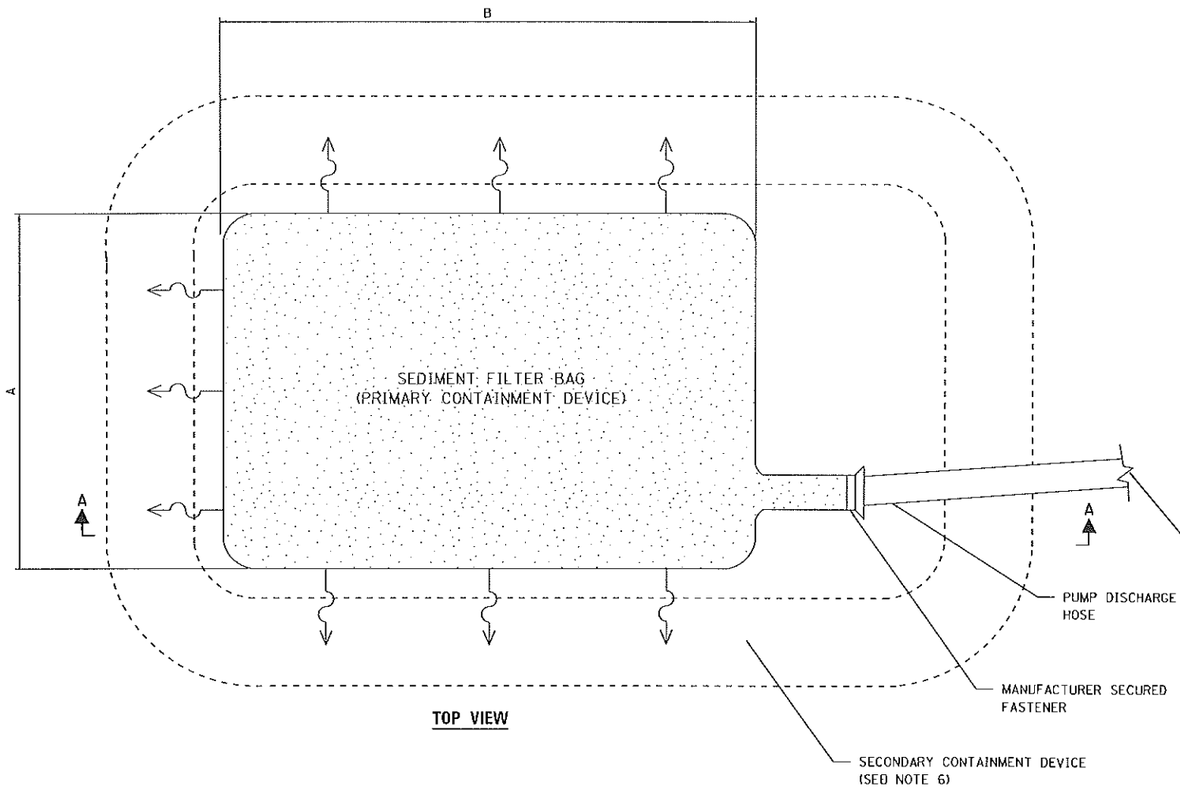
CONTRACT NO. I-17-4339

SHT NO. ECD-01

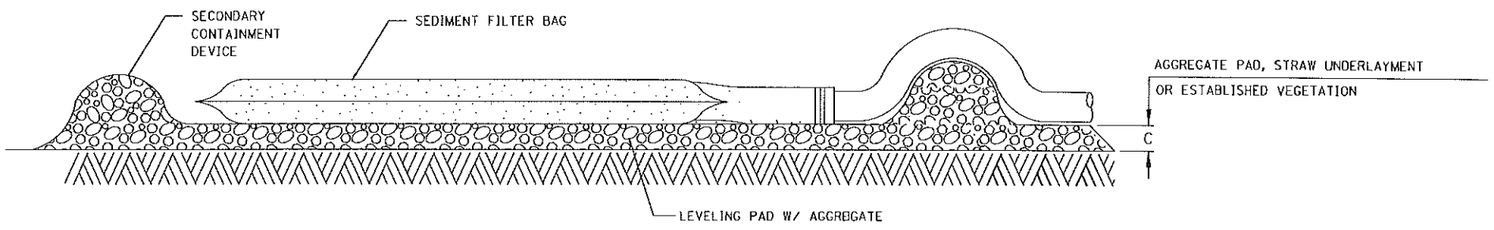
EROSION CONTROL DETAIL - ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM

DRAWING NO. 398 OF 1740

43398-sht-eros-detail-001.dgn
32386



TOP VIEW



SIDE VIEW
SECTION A-A

NOTES:

1. SEDIMENT FILTER BAGS TO BE CONSIDERED AN ALTERNATE FOR SITES WHERE SEDIMENT BASIN INSTALLATION IS PROBLEMATIC.
2. SEDIMENT FILTER BAGS TO BE SIZED BASED ON VOLUME OF WATER BEING PUMPED, QUANTITY AND TYPE OF SEDIMENT AND THE PERMITIVITY OF THE SPECIFIC BAG SIZE.
3. MULTIPLE DISCHARGES INTO A SINGLE BAG ARE NOT PERMITTED.
4. SEDIMENT FILTER BAG SHALL BE ORIENTATED TO DIRECT FLOW AWAY FROM CONSTRUCTION AREA AND DISCHARGE FILTERED WATER INTO APPROVED RECEIVING AREA OR CONTAINMENT SYSTEM.
5. SEDIMENT FILTER BAG SHALL BE REPLACED WHEN IT BECOMES ½ FULL OF SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED DISCHARGE FLOW RATE BELOW DESIGN REQUIREMENTS.
6. SECONDARY CONTAINMENT DEVICE SHALL BE COMPRISED OF AGGREGATE MATERIAL, TEMPORARY DITCH CHECK OR EQUIVALENT.
7. PLACE STRAPS, CROSS CHAINS, PALLETS OR OTHER LIFTING DEVICE UNDER THE SEDIMENT FILTER BAG WHEN REPLACEMENT IS ANTICIPATED.

DESIGN ELEMENTS		VALUES
STORAGE CAPACITY VOLUME	V (CU. FT.)	±300
SEDIMENT FILTER BAG WIDTH	A (FEET)	15
SEDIMENT FILTER BAG LENGTH	B (FEET)	15
PUMP FLOW RATE	X1 (GPM)	600
SEDIMENT FILTER BY FLOW RATE	X2 (GPM/SQ. FT.)	80
PUMP DISCHARGE HOSE DIAMETER	D (INCH)	4
AGGREGATE PAD	GRADATION	RR1
AGGREGATE PAD DEPTH	C (INCH)	6
STRAW UNDERLAYMENT DEPTH	C (INCH)	2

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CONTRACT NO. I-17-4339

EROSION CONTROL DETAIL
TEMPORARY SEDIMENT FILTER BAG

SHT NO. ECD-02
DRAWING NO.
399 OF 1740

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4339-sht-eros-detail-003.dgn
32386

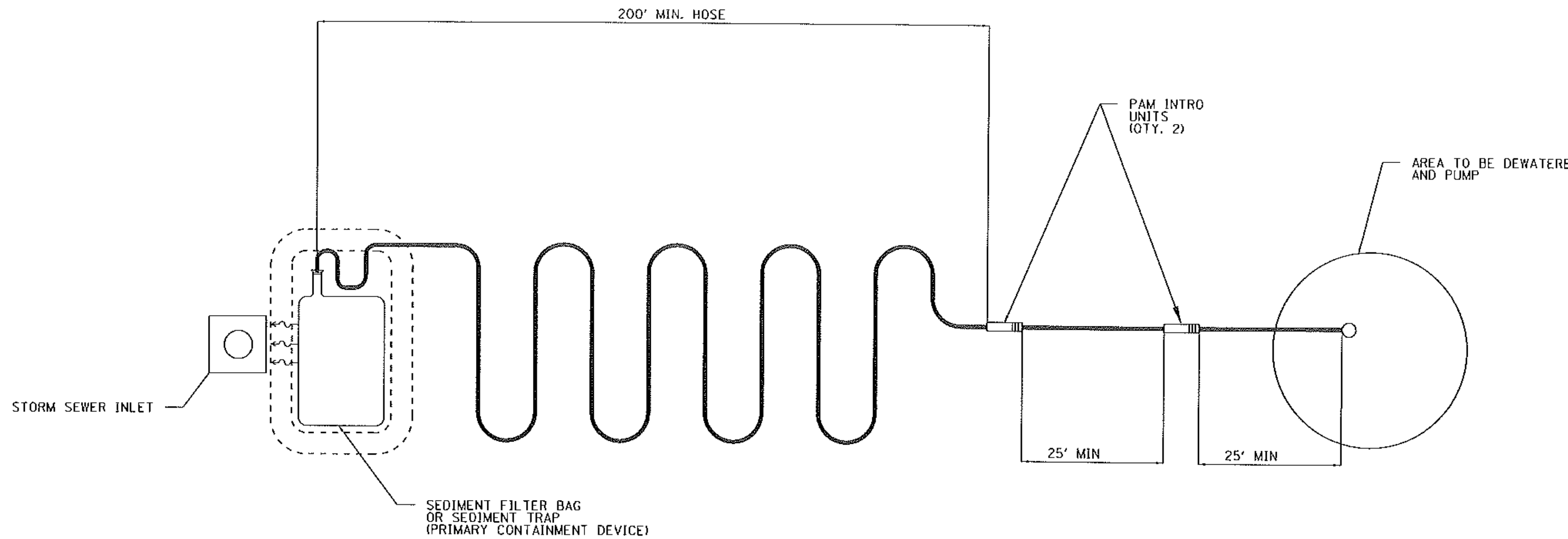
NOTES:

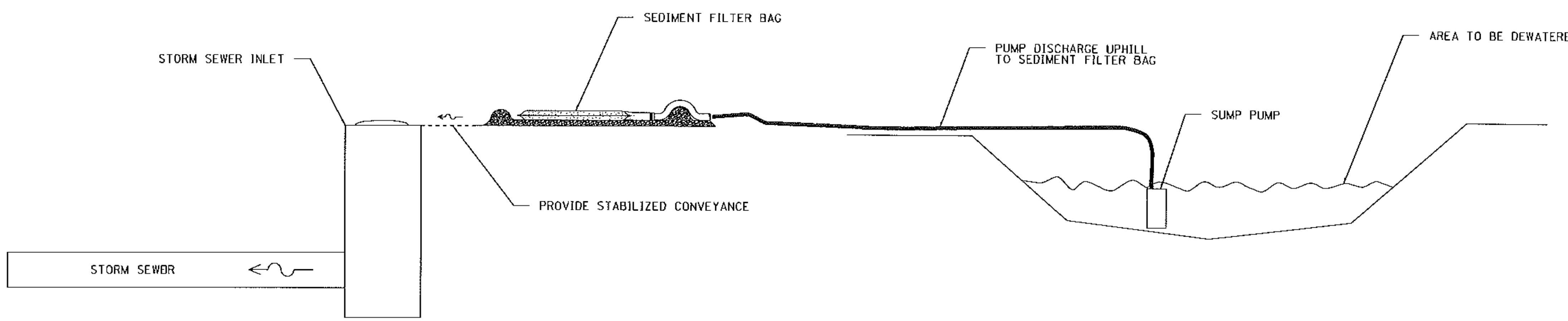
COMPONENTS INCLUDE

1. SUMP PIT OR FLOATING INTAKE WITH FLOC LOGS.
2. PUMP AND MINIMUM 25' HOSE BETWEEN CHARGING UNIT FLOC.
3. PAM CHARGING UNITS 2 IN-LINE.
4. SURPENTINED HOSE 200' MINIMUM.
5. FILTER BAG ON STONE BED.

GENERAL NOTES:

1. QUANTITY OF PAM AND HOSE LENGTH TBD BY BENCH TEST.
2. AFTER TREATMENT, DISCHARGE SHALL BE VISIBLY CLEAR.





DRAWN BY MHAYES	DATE	4/30/2020	
CHECKED BY MANTAS	DATE	4/30/2020	

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL DETAIL
IN-LINE FLOCCULATION SYSTEM

SHT NO. ECD-03
DRAWING NO. 400 OF 1740

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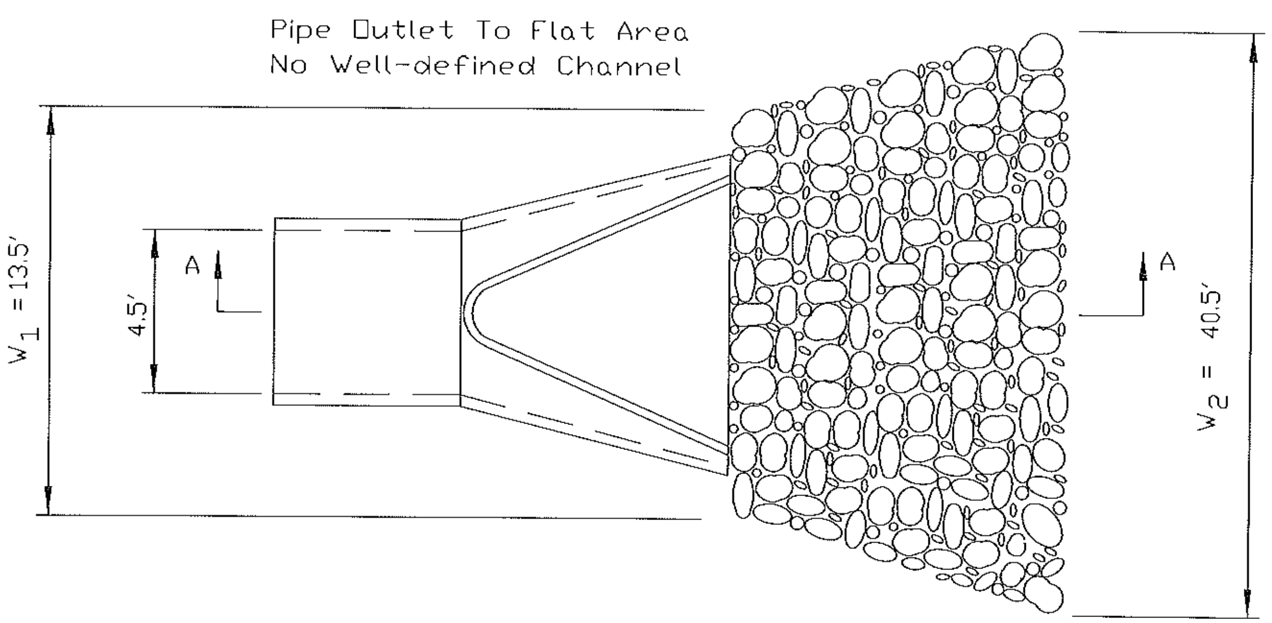
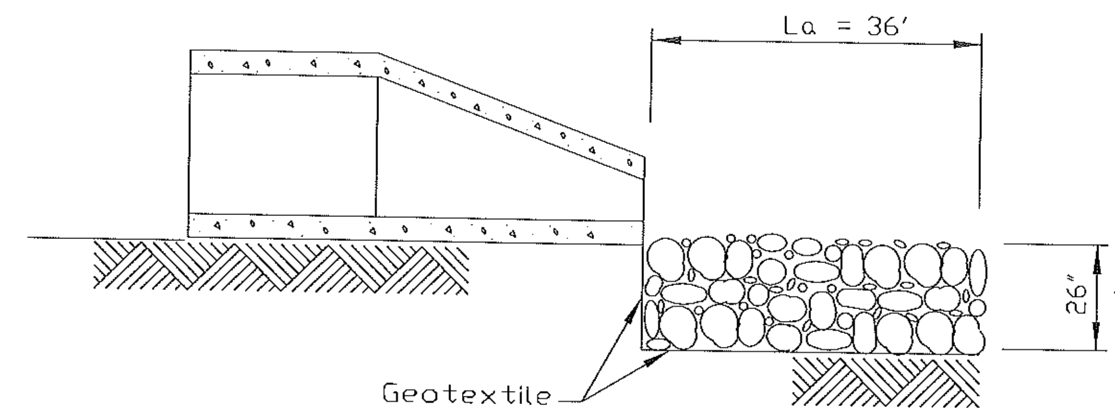
32386



PLAN



SECTION A-A

NOTES:

1. The filter fabric shall meet the requirements of Section 282 of the Standard Specifications.
2. The rock riprap shall shall meet the IDOT requirements for the following gradation: RR 6, Quality A.
3. The riprap shall be placed according to Section 281 of the Standard Specifications. The rock may be equipment placed.
4. Adapted from the Illinois Urban Manual Standard Drawing No. IL-610.

DRAWN BY MHAYES	DATE	4/30/2020	
CHECKED BY MANTAS	DATE	4/30/2020	

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32308

CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE,
ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-17-4339

EROSION CONTROL DETAIL
PIPE OUTLET TO FLAT AREA

SHT NO. ECD-04
DRAWING NO.
401 OF 1740

ISTHA I-17-4339

Dust Control Plan

General

Pursuant to Article 107.36 of the Supplemental Specifications the contractor will be responsible for controlling the dust and air-borne dirt generated by construction activities on this contract until all permanent erosion control measures including permanent and temporary seeding have been established. Work will be conducted in a manner that will not result in generating excessive total nuisance dust conditions or air borne particulate matter. Excessive is defined as exceeding the screening standards.

Concerns

Dust control will be necessary when winds and dry soil conditions reduce visibility on adjacent roads or property. Concerns for health and safety to the public using adjacent facilities will be grounds for the implementation of dust control procedures.

Responsible Person

John Carroll - 630-286-0795

Materials

- Dust Suppression Agents: Water shall meet the requirements of Section 1002 of the Standard Specifications.
- Soil stabilizers shall consist of seed and mulch meeting the requirements of Article 1081.06 (a) (2) and (3).
- Covers for stockpiles shall be commercially available plastic tarps, or other materials approved by the Engineer.

Construction Methods

Water shall be used to provide temporary control of dust on entrances/exits to the job site, haul roads and other active work areas. Several applications per day may be necessary to control dust depending upon meteorological conditions and work activity. The Contractor shall apply water on a routine basis as necessary or as directed by the Engineer to control dust. Wet suppression consists of the application of water. Wet suppression equipment shall consist of sprinkler pipelines, tanks, tank trucks, pumps, or other devices approved by the Engineer, capable of providing a regulated flow, uniform spray and positive shut off. Haul truck cargo areas shall be securely covered during the transport of materials on public roadways that are prone to cause dust.

Public Roadway Dust Control

Trackout, including carryout and spillage of material that adheres to the exterior surfaces of or are spilled from motor vehicles and/or equipment and subsequently fall onto a paved public roadway must be controlled at all times. Clean up of carryout and spillage is required immediately if it extends a cumulative distance of 50 feet or more on a paved public roadway. If the extent of carryout is less than 50 feet, clean up at the end of the day is permissible. Clean up of paved surfaces shall be by wet spray power vacuum street sweeper. Dry power sweeping is prohibited.

Control of Earthwork Dust

During batch drop operations (i.e. earthwork with a front-end loader, clamshell bucket, or backhoe), the free drop height of excavated or aggregate material shall be reduced to minimum heights as necessary to perform the specified task, and to minimize the generation of dust. To prevent spills during transport, a minimum of 2 inches of freeboard space shall be maintained between the material load and the top of the truck cargo bed rail. A maximum drop height of two feet (or minimum height allowed by equipment) will be allowed, or to heights as directed by the Engineer.

Control of Dust on Stockpiles and Inactive Work Areas

The Contractor shall use the following methods to control dust and wind erosion of stockpiles and inactive areas of disturbed soil:

- Water shall be used during active stockpile load-in, load-out, and maintenance activities.
- Soil stabilizers (hydraulic or chemical mulch) may be applied to the surface of inactive stockpiles and other inactive areas of disturbed soil. Final grading and seeding of inactive areas shall occur immediately after construction activity is completed in an area and as directed by the Engineer.
- Plastic tarps may be used on small stockpiles, secured with sandbags or an equivalent method approved by the Engineer, to prevent the cover from being dislodged by the wind. The Contractor shall repair or replace the covers whenever damaged or dislodged at no additional cost.

Judlau Contracting, Inc. Central Region Safety Data Sheets Table of Contents

Tab #	MATERIAL NAME TRADE/COMMON	MANUFACTURER/IMPORTER/SUPPLIER Name, Address, Telephone	SDS DATE	SDS #	Number of pages
1	Brakleen Brake Parts Cleaner	CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 (215) 674-4300			6
1	Advance Auto Parts Jet Spray Carb+Choke Cleaner	Radiator Specialty Company 600 Radiator Road, Indian Trail, NC 28079 (303) 623-5716	3/14/2007	A70000	5
1	CAT Cooling System Cleaner	Chemtool Incorporated 801 W. Rockton Road, Rockton, IL. 61072 (815) 957-4140	4/5/2012	1395	13
1	Battery Terminal Protector	Bowman Distribution 1301 E. 9th St. Suite 700 Cleveland, OH 44114 (800) 424-9300	8/24/2000	21948	10
1	Carquest Fuel Injector Cleaner	CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 (215) 674-4300, Emergency CHEMTREC: (800) 424-9300 or (703) 527-3887	2/5/2013	2005, 2005C	7
1	Fuel Therapy Diesel Injector Cleaner with Anti-Gel	CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 (215) 674-4300, Emergency CHEMTREC: (800) 424-9300 or (703) 527-3887	10/10/2012	05425, 05428, 05432, 05455	7
2	Krylon Pro Professional Solvent-Based Fluorescent Marking Paint, Hot Pink	Krylon Products Group Cleveland, OH 44115 Product Info (800) 457-9566, Regulatory Info (216) 566-2902, Medical Emerg. (216) 566-2917, Transportation Emerg. (800) 424-9300	7/20/2014	K07308000	5
2	Krylon Pro Professional Water-Based APW Marking Paint, APWA White	Krylon Products Group Cleveland, OH 44115 Product Info (800) 457-9566, Regulatory Info (216) 566-2902, Medical Emerg. (216) 566-2917, Transportation Emerg. (800) 424-9300	7/20/2014	7316	5
2	76245 Zinc Rich Gold Galvanizing	Osborn International 5401 Hamilton Ave., Cleveland, OH 44114 (216) 361-1900; Emergency (905) 677-1948	1/31/2002	1515-14-0001	5
2	Upside Down Marking Paints	Sprayon Products Div. of Sherwin Williams Co. 31500 Solon Rd., Solon, OH 44139 Emerg. (216) 292-7400, Info (800) 777-2966.	7/1/1994		8
2	CCA Treated Wood	Hoover Treated Wood Products, Inc. 154 Wire Rd. NW, Thomson, GA 30824 (706) 595-7355	2/1/2011	92	4
2	Lead				
2	Solid BOF Slag - Burns Harbor	ArcelorMittal Burns Harbor LLC. 250 W. US Hwy 12 Burns Harbor, IN 46304 (219) 787-4642. CHEMTREC (800) 424-9300	10/28/2009	BH-0007	6
3	All Weather Seal	Irontite by Kwik-Way Inc. 500 57th Street Marion, IA 52302 (319) 377-9421 or (800) 423-3384. KMK Regulatory Services, Inc. (800) 423-3384	6/1/2012	N/A	8
3	Windex Powerized Glass Cleaner	Consumer Branded Professional Products, Div. JohnsonDiversey, Inc. 8310 16th Street Sturtevant, WI 5317 (888) 352-2249, Emerg. (800)-851-7145	5/2/2005	126011004	3
3	ZEP-OFF	Zep, Inc. 1310 Seaboard Industrial Blvd. Atlanta, GA 30318 1-877-428-9937 Emerg. (877) 428-9937. Prepared by: Compliance Servies 1420 Seaboard Industrial Blvd. Atlanta, GA 30318	10/20/2010	83	4
3	Muratic Acid, Class E Corrosive Liquids, Hydrochloric Acids Solutions UN 1789, Class 8, 11	Advance Chemicals Ltd. 2023 Kingsway Avenue Port Coquitlam, B.C. V3C 1S9 (604) 945-9666, Emerg. CANUTEC 24 hrs (613) 996-6666	2/9/2007		1
3	Isopropyl Alchol; Isopropanol	Sciencelab.com, Inc. 14025 Smith Road Houston, TX 77396 CHEMTREC Emerg. (800) 424-9300	5/22/2009	67-63-0	6
3	Mandarin Sunrise Pine-Sol Multi-Surface Cleaner	The Clorox Company 1221 Broadway Oakland, CA 94612, 1-510-271-7000 Emerg. (800) 446-1014 CHEMTREC (800) 424-9300	1/5/2015	N/A	
3	Great Stuff Pro Insulating Foam Sealant	The Dow Chemical Company, Dow Building Solutions 200 Larkin Midland, MI 48674 (866) 583-2583			2
3	MasterSeal NP 1 alu gry PPK also NP1 ALU Gry	BASF Corp. 100 Park Avenu Florham Park, NJ 07932 (973) 245-6000 Emerg. CHEMTREC (800) 424-9300	3/17/15	50384250	12
3	Loctite Polyseamseal Acrylic Caulk with Silicone	Henkel Corporation One Henkel Way, Rocky Hill, CT 06067 PCC (877) 671-4608 or (303) 592-1711 CHEMTREC (800) 424-9300	2/2/11	1507595	5

3	SCS1001 12C-Crtrg (0.730 Lbs-0.331 Kg)	Momentive Amer Seal 260 Hudson River Rd. Waterford, NY 12188 (800) 295-2392 CHEMTREC (800) 424-9300	4/10/15	N/A	13
3	SpecShield WB	SpecChem 1511 Baltimore Ave. Suite 600 Kansas City, MO (816) 968-5600 Emerg. Chemtrec (800) 424-9300	4/16/15	N/A	7
4	All Walter Wire Brushes with Steel Wire	J. Walter Company Ltd. 5977 Trans Canada Hwy. Pointe Claire, QUE. H9R 1C1 (613) 996-6666 (514) 630-2800.	05/10/15	A-03E	2
4	Fleetweld 22	The Lincoln Electric Company 22801 St. Clair Avenue Cleveland, OH 44117-1199 (216) 481-8100	12/01/01	US-M235	2
4	Fleetweld 47	The Lincoln Electric Company 22801 St. Clair Avenue Cleveland, OH 44117-1199 (216) 481-8100	09/10/01	US-M245	2
4	Abrasive Blades and Wheels (All Grades) Resin-bonded cutting and grinding blades for metal and masonry	Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121 (800) 879-8000 CHEMTREC (800) 424-9300	11/19/98	168	2
4	Diamond Core Bits and Diamond Blades	Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121 (800) 879-8000 CHEMTREC (800) 424-9300	11/02/99	163	2
4	Ni-Cr Bare Wire and Strip Electrodes and Rods	Sandvik Steel Company PO Box 1220 Scranton, PA 18501-1220 (570) 585-7500	01/01/02	N/A	3
4	Grinding and Cutting Wheels	United Abrasives, Inc. 185 Boston Post Road North Windham, CT 06256 (860) 456-7131	08/24/12	1/2	5
4	Diamond Blades (Metal Bonded & Electroplated) and Grinding Wheels	MK Diamond Products, Inc. 1315 Storm Parkway, Torrance, CA 90501 (310) 539-5158 CHEMTREC (800) 424-9300.	07/01/13	N/A	2
5	Bar's Leaks Liquid Radiator Stop Leak	Bar's Products P.O. Box 187 Holly, MI 48442 (810) 603-1321 CHEMTEl Inc. (800) 255-3924	02/14/13	N/A	10
5	Lubriplate No 130-A and 130-AA	Fiske Brothers Refining Co. 1500 Oakdale Ave. Toledo, OH 43605 (800) 255-3924	N/A	N/A	2
5	Chuck Grease Lubricating Grease for HILTI Hammer Drills	Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121 (800) 879-8000 CHEMTREC (800) 424-9300	01/20/00	243	2
5	Case Akcela TCH Fluid	Viscosity Oil Company 600-H Joliet Road Willowbrook, IL. 60527 (630) 850-4000	01/02/10	N/A	7
5	WD-40 Multi-Use Aerosol	WD-40 Company 1061 Cudahy Place San Diego, CA 92138-0607 (888) 324-7596	07/20/14	N/A	5
5	Liquid Wrench Multi-Use Lubricating Oil	Radiator Specialty Company 600 Radiator Road, Indian Trail, NC 28079 (303) 623-5716	08/18/08	L206	5
5	United Industrial Gear Compound ISO 150; Lubricating Oil	Growmark, Inc. 2200 South Avenue, Council Bluffs, IA 51503 (800) 798-6457	01/27/09	4370	4
5	Big Orange Liquid; Industrial Solvent Degreaser	Zep, Inc. 1310 Seaboard Industrial Blvd. Atlanta, GA 30318 1-877-428-9937 Emerg. (877) 428-9937. Prepared by: Compliance Servies 1420 Seaboard Industrial Blvd. Atlanta, GA 30318 INFOTRAC (877) 541-2016 CHEMTREC (800) 424-9300	12/07/07	415	1/3/1900
6	Asphalt /Bitumen/Asphalt Blend Stock	Seneca Petroleum Comnpany, Inc. 13301 South Cicero Ave. Crestwood, IL. 60445 (708) 396-1100 Emerg. (800) 424-9300		PG141119	8
6	Base Asphalt Pavement Mix	Gallagher Asphalt Corp. 18100 5. Indiana Ave. Thornton, IL. 60476 (708) 877-7160	07/09/15	N/A	6
6	ALLFLEET Diesel Exhaust Fluid API License #0044; ISO 22241	Reladyne 9395 Kenwood Road Blue Ash, OH 45242 (800) 424-9300 Chemtrect (800) 786-2803	01/01/13	N/A	6
6	Diesel Fuel Supplement + Cetane Boost	Power Service Products, Inc. P.O. Box 1089 Weatherford, TX 76086 (800) 643-9089 (817) 599-9486	12/15/14	N/A	11
6	Diesel Fuel Supplement + Cetane Boost	Power Service Products, Inc. P.O. Box 1089 Weatherford, TX 76086 (800) 643-9089 (817) 599-9486	03/23/09	N/A	9
6	Diesel Fuel Supplement + Cetane Boost	Power Service Products, Inc. P.O. Box 1089 Weatherford, TX 76086 (800) 643-9089 (817) 599-9486	10/29/14	N/A	11
6	DIESEL 911	Power Service Products, Inc. P.O. Box 1089 Weatherford, TX 76086 (800) 643-9089 (817) 599-9486	09/23/10	N/A	9
7	Crushed or Recycled Concrete	VCNA Prairie Aggregates, Inc. 7601 W. 79th St. Bridgeview, IL. 60455 (708) 563-5828	09/01/09	N/A	2
7	Quickrete Sand Mix 1103	Quickcrete Companies 2987 Clairmont Rd. Suite 500 Atlanta, GA 30329 (770) 216-9580	08/01/98	98-J	12

7	Portland Cement Type I & II	Ash Grove Cement West Inc. 111 S E Madison St. Portland, OR 97214 (503) 232-3116 Emerg. (503) 232-3116	11/11/96	5610	6
7	Natural Sand and Gravel - Construction Aggregate	Vulcan Materials Co. 1200 Urban Center Drive Birmingham, AL 35242 (866) 401-5424 Emerg. (866) 401-5424	05/01/12	3239-003	6
7	Natural Sand, Crushed Stone, Crystalline Silica (Quartz)	Hanson Aggregates (800) 424-9300 Chemtrec	06/28/06	14808-60-7	
7	Mortar Cement Based Masonry Mortars	Spec Mix, Inc. 1230 Eagan Industrial Rd. Ste. 160 Eagan, MN 55121 (800) 282-5828	06/01/15	SM1	10
7	Natural Sand & Gravel	VCNA Prairie Aggregates, Inc. 7601 W. 79th St. Bridgeview, IL. 60455 (708) 563-5828, (708) 563-4054	09/01/09	N/A	2
7	Crushed Concrete, Recycled Hardened or Crushed Concrete	Vulcan Materials Co. 1200 Urban Center Drive Birmingham, AL 35242 (866) 401-5424 Emerg. (866) 401-5424	05/01/09	3239-042	5
7	Dolomite	Vulcan Materials Co. 1200 Urban Center Drive Birmingham, AL 35242 (866) 401-5424 Emerg. (866) 401-5424	05/01/12	16389-88-1	5
7	Limestone	Vulcan Materials Co. 1200 Urban Center Drive Birmingham, AL 35242 (866) 401-5424 Emerg. (866) 401-5424	05/01/12	1317-65-3; 14808-60-7	5
7	Dolomite; Crystalline Silica (Quartz)	Hanson Material Service (800) 424-9300 Chemtrec	03/17/08	1408-60-7	6
7	Limestone, Crushed Stone	Hanson Aggregates (800) 424-9300 Chemtrec	06/01/08	N/A	
7	Limestone	VCNA Prairie Aggregates, Inc.7601 W. 79th St. Bridgeview, IL. 60455 (708) 563-5828, (708) 563-4054	09/01/09	N/A	2
7	Citgo Concrete Form Oil	CITGO Petroleum Corp. P.O. Box 4689 Houston, TX 77210 (800) 248-4684 Emerg. (832) 486-4700	11/20/14	643205001	9
7	BD 7-77 Penetrating Oil (12 oz Aerosol)	Bowman Distribution 1301 E. 9th St. Suite 700 Cleveland, OH 44114 (800) 726-962, (216) 416-7200, PCC (303) 623-5716, CHEMTREC (800) 424-9300	03/13/00	21777	8
7	Mobil EAL Hydraulic Oil 32 and 46	Esso Petroleum Company Ltd. ExxonMobile House, Ermyn Way, Leatherhead, Surrey KT22 8UX 44 (0) 1372 222000	10/01/12	N/A	3
7	AW Hydraulic Oil ISO 46; Hydraulic Fluid	CGF Inc. 317 Peoples Ave. Rockford, IL. 61104 (800) 424-9300	December 1, 2009	N/A	6
7	Air Compressor Oils	Royal Mfg Co LP P.O. Box 693 Tulsa, OK 74101-0693 (918) 587-5711 Emerg. (800) 299-2671	October 22, 2003	64741-88-4	2
7	FS Permanent Antifreeze	Old World Industries, Inc. 4065 Commerical Ave. Northbrook, IL. 60062 (847) 559-2000 Emerg. (800) 424-9300	1/28/2009	N/A	14
7	Husqvarna 2-Stroke Oil Guard	Husqvarna AB Drottninggatan 2 (760) 476-3961 (access code 333721)	12/18/2012	N/A	9
7	Mobil 1 5W-30, Synthetic Base Stocks and Additives	Exxon Mobile Corp. 3225 Gallows Rd. Fairfax, VA 22037 Emerg. (609) 737-4411	5/18/2005	N/A	8
7	Castrol Dex/Merc Domestic Multi-Vehicle ATF	BP Lubricants USA Inc. 1500 Valley Rd. Wayne, NJ 07470 (973) 633-2200 Emerg. (800) 447-8735	1/22/2013	465367	5
7	HEET Gas Line Antifreeze	Gold Eagle Company 4400 S. Kildare Blvd. Chicago, IL. 60632 (773) 376-4400 (800) 535-5053	8/5/2005	28201	9
7	Husqvarna Oil Guard Two Cycle Engine Oil with Fuel Stabilizer	Spectrum Lubricants Corp. 500 Industrial Park Drive Selmer, TX 38375 (731) 645-4972, Emerg. (800) 424-9300 after 5PM	06/05/007	N/A	3
7	CAT Multipurpose Tractor Oil, Base Oil and Additives	Exxon Mobile Corp. 3225 Gallows Rd. Fairfax, VA 22037 Emerg. (609) 737-4411	9/18/2014	564500-00	11
7	John Deere GL5 Gear Lube	Chevron Products Company 6001 Bollinger Canyon Rd. San Ramon, CA 94583 (800) 231-0623 Emerg. (800) 424-9300	3/2/2009	7294	7
7	Suprex Gold Heavy ESP 15W40 Heavy Duty Engine Oils	Growmark, Inc. 2200 South Avenue, Council Bluffs, IA 51503 (712) 322-4038	3/18/2004	N/A	3
7	Suprex Gold ESP 10w-30	Growmark, Inc. 2200 South Avenue, Council Bluffs, IA 51503 (712) 322-4038	3/18/2010	N/A	5
7	Prestone Heavy Duty Extended Life 50/50 Premix coolant	Prestone Products Corp. Danbury, CT 06810 (800) 890-2075 Emerg. (800) 424-9300	9/9/2013	532	8
7	United Super Premium Fleet 15w-40, Lubricating oil	Growmark, Inc. 2200 South Avenue, Council Bluffs, IA 51503 Emerg (800) 798-6457	1/27/2009	1025	3

ISTHA 4339 Spill Prevention Management Program

Judlau shall ensure that a harmful substance used or stored at a work site:

- Be clearly identified or the container clearly identified
- Be used and stored in such a way the use or storage is not a hazard to any person

All containers, used or handled at a workplace, which by reason of toxicity, flammability or reactivity create risk to the health or safety of employees shall be contained, so far as is reasonably practicable in a suitable container which is clearly labelled to identify the substance, the hazards associated with its use or handling, the workplace uses for which it is intended, and protective measures to be taken by employees before, during and after its use.

Judlau will ensure that wastes from hazardous substances or materials used for hazmat cleanup are placed into suitably labeled containers for safe disposal.

SPILL CONTAINMENT

The following procedures have been developed and implemented as part of Judlau Contracting Spill Prevention Management Program for the prevention, assessment and execution in the event of a hazardous material spill.

Containerized Waste

Should any containerized hazardous waste be discovered, all materials shall be secured as to limit exposure, and if possible will be placed in a secure area. During collection Judlau personal will follow the procedures below.
Once the materials have been collected Judlau will contact HazChem Environmental Corp. to test, package, transport & dispose of all containerized waste. If is not possible to protect employees from exposure, contact HazChem Environmental Corp. immediately.

PPE: Rubber gloves, respirator (North ½ facemask), safety glasses, disposable coveralls (if necessary).

Removal Procedure:

1. Prior to the start of work, confirm the location of spill kit and verify the area designated for storing containerized waste.
2. Before removal clear the immediate area of any unprotected persons.
3. Some containers may be heavy or awkward to carry utilize proper man power, push cart, or lifting apparatus for safe removal/ relocation.
4. If possible identify material and any handling instructions.
5. Visually inspect for leaks and structural integrity of container prior to removal/ relocation. If leak is present follow spill procedure (see below.)
6. Relocate item to designated storing area.
7. After all waste has been collected and relocated to the storing area contact removal company (Removal company will segregate different waste characteristics and conduct compatibility testing of waste prior to shipment.)
8. Workers shall use proper hygiene practices (hand washing) after operation.
9. Only trained personnel will be involved with cleanup of hazardous waste.

Emergency Spill/ Accident

In the event of a hazardous material spill during containerized waste collection or via leaking machinery fluids, **re-fueling of equipment**, disturbing an unknown container, etc. the following procedures shall be followed.
1. In the event of a spill immediately evacuate, isolate and secure the area.
2. Notify onsite Foreman or Superintendent and Safety. **Superintendent** will be responsible for overseeing the proper cleanup of spill
3. Ventilate the area (if indoors).

4. If possible confirm type of waste and/or proper clean-up procedures.
5. If unable to confirm type of waste contact 911 or HazChem Environmental Corp. (630) 458-1910.
6. Spill containment units (2) are located next to equipment connex box. Open spill containment unit, take out absorbing material and/or pads and spread/place on spill.
7. If necessary take out and use spill containment boom to limit spreading of material into water.
8. All contaminated debris shall be disposed of in an approved container and shall be disposed of by HazChem.
9. After spill has been removed, excavate top 8'' of soil, and 3' in each direction beyond the area where the spill occurred. Place contaminated soil in approved hazardous waste container and shall be disposed of by HazChem.
10. All personnel involved in the cleanup of hazardous waste shall be trained and wear appropriate PPE.
11. Any clothing that came in contact with the spill will be removed and washed or disposed of as soon as possible.

Re-fueling of equipment

The re-fueling process for every piece of equipment (via Fuel Truck) shall take place at a staging area with no potential of leeching or spilling into any body of water, drainage inlets and catch basins.
500 gallon fuel tank will be placed in the staging area. A fire extinguisher will be place within 50 feet of the fuel tank and will be protected by Jersey barrier.
An oil absorbent mat (5' X 3') will be used under the fuel filling area while re-fueling all equipment, to catch fuel that might inadvertently fall onto the ground.
An oil absorbent mat (3' X 2') will also be used when filling any generator, tool, or other gasoline consuming equipment. All 5-gallon fuel containers are FM, UL/ULC, TUV approved, and meet NFPA and OSHA standards. All fuel containers are inspected before each use.

Inventory of spill response and cleanup equipment.

Two (2) 55 gallon spill containment barrels are to be located on site. They will each contain: (4) 3in. X 12 ft. socks, (5) Disposal bags, (50) 15 in. X 19 in. Pads, (8) 18 in. X 18 in. Pillows, Goggles, Handbook, Nitrile Gloves, (5) 20lb. buckets of Oil-Dri absorbent.

The following is a list of potential sources of spills on site:

Equipment/Tools list

Backhoe excavators, Front-end loader, Dozers, Skidsteers, Crane, Diesel Hammer, Drills, Work pickup trucks, Generators, Hand-Tools, Compressors, Light Plants, Welders, 5 Gallon Gas Containers, 500 Gallon Fuel Tank.

Chemical inventory list

At any time there may be items on the chemical inventory list in use on site. The manufacturer's guidelines will be used to prevent spillage or if a spillage occurs, when using these items.

Product name	Mfg. name
Abrasive blades and wheels	HIlti
Air compression oils	Royal mfg. Co.
All weather seal	Irontite
Asphalt cement	Seneca petroleum

Hydraulic Oil ISO 48	CGF inc.
Liquid radiator stop leak	Bars leaks
Asphalt pavement mix base	Gallagher asphalt Corp.
Battery terminal protector	Bowman Distribution
BD7-77 Penetrating Oil	Bowman Distribution
Big Orange Degreaser	ZEP Inc.
Case Akcela TCH Fluid Lubricant	Viscosity Oil Co.
Castrol multi vehicle ATF	BP lubrications USA Inc.
Cat cooling system cleaner	Chemtool Inc.
Cement, Portland Type I and II	Cornell
Chuck Grease	Hilti
Coolant, Prestone HD 50/50	Prestone Products Corp.
Concrete, Crushed or recycled	Prairie Material
Concrete form oil, Citgo	Citgo Petroleum Corp.
Concrete, Crushed	Vulcan Materials Corp.
Diamond blades and Grinding wheels	MK Diamond Products
Diamond core bits and blades	Hilti
Diesel 911	Power Service Products
Diesel fuel supplement	Power Service Products
Diesel injector cleaner	CRC industries
Dolomite limestone, Calcium magnesium	Vulcan Materials Corp.
Electrode, covered	Lincoln electric Co.
Fuel injector cleaner	CRC Industries
Fuel, Gasoline, unleaded	Marathon Oil
FS permanent Antifreeze	Old world Industries
Great Stuff Pro	Dow Chemical Co.
Heet gas line Antifreeze	Gold Eagle Co.
Isopropyl Alcohol	Science Lab.com Inc.
Krylon Pro Marking paint	Krylon Products Group
Limestone	Prairie Materials
Limestone	Vulcan Materials
Limestone, crushed stone	Hanson

Linseal Clear	W.R. Meadows
Liquid wrench lubricating Oil	Radiator specialty Co.
Loctite Acrylic caulk	Henkel Corp.
Lubriplate	Piske Brothers refining co.
John Deere GL5 Gear lube	Chevron Products Co.
Lubricating Oil, United Super	Growmark Inc.
Spec Mix Masonry cement and sand mortar	SpecMix
Master Seal NP1	BASF Corp.
Natural Sand, crushed stone	Hanson Aggregates
Natural sand and gravel	Vulcan Materials
Husqvarna Oil guard two cycle	Spectrum Lubricants Corp.
Hydraulic oil 32 and 46, Mobil EAL	Mobil
Mobil 1 5W-30	Exxon Mobil
Suprex Gold ESP 15W40	Growmark refineries
CAT Multipurpose Tractor oil	Exxon Mobil
Pinesol Multi surface cleaner	Clorox Company
Quikrete, sand mix 1103	Quikrete Companies
Strip electrodes and Rods	Sandvik steel company
SCS1001 12C-Crtrg	Momentive American Seal
Solid BOF slag-Burns Harbor	Arcelor Mittal
Specshield WB	SpecChem
Upside down Marking Paint	Sprayon Products
WD-40	Wd-40 Company
Windex glass cleaner	Johnson Diversity Inc.
Wire Cup brushes	J. Walter Company
Wood, CCA treated	Hoover treated wood Products
ZEP-OFF	ZEP Inc.
Zinc rich cold galvanizing	Osborn International