Illinois Tollway projects which involve clearing and grubbing, excavation, stockpiling of soil and aggregate, borrow, construction of embankment, or otherwise require the use of temporary erosion and sediment control measures requires the preparation and implementation of an Erosion and Sediment Control Plan.

All Illinois Tollway projects have been evaluated for the need for an NPDES permit, erosion and sediment controls, and pollution prevention measures to protect stormwater as part of the preparation of the Contract Plan and Documents. If the project involves a cumulative land disturbance of one (1) acre or more, an NPDES permit is required and requirements of the permit are specified in S.P. 111.1. Requirements regarding erosion and sediment control and other pollution prevention controls to minimize stormwater pollution during construction activities are specified in S.P. 111.2.

The Contract Plans identify 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 Plans. 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 may be described.

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 Stormwater associated with construction site activities (ILR10).

The requirements of this permit include the development of detailed Erosion and Sediment Control Plan (ESCP) and the preparation of a Stormwater Pollution Prevention Plan (SWPPP) that addresses erosion and sediment control issues, stormwater management, and control of other construction-related pollutants that could impact the 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 Plans and Documents 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 no later than 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 Contractor as changes are made during construction.

The NOI must be submitted to the IEPA no later than 30 days prior to the start of construction. The NOI will be initiated 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 information, 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 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 no later than 30 days before any ground disturbing activity begins. A copy of a blank NOI form 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 washout facilities 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 Erosion and Sediment Control Plan.

The Illinois Tollway's General Permit ILR40 also requires that sediment laden stormwater 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 stormwater'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 stormwater) exiting the right-of-way or

to receiving waters, the Engineer will immediately report the incident to the Illinois Tollway Environmental Unit. Corrective actions must be initiated immediately to address any non-compliance issues(s).

Reports of violations of the SWPPP and 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 five (5) 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 website:

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

The SWPPP shall be amended whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to Waters of the U.S. and which has not otherwise been addressed in the plan. The SWPPP shall also be amended if the plan proves to be ineffective in eliminating or significantly minimizing pollutants, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the plan. The SWPPP and ESCP must be modified within 7 days for any changes to construction plans, stormwater controls or other activities at the site that are no longer accurately reflected in the SWPPP. Any revisions of the documents for the SWPPP shall be kept on site at all times.

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. Project Location

The improvements to be constructed under this contract shall be performed along the Jane Addams Memorial Tollway (I-90) between Mile Post 73.5 and Mile Post 74.7 and along the Elgin O'Hare Western Access Tollway (I-490) between Mile Post 5.9 and Mile Post 6.25 in Cook County, Illinois. The project latitude and longitude are 42°00'53"N and 87°55'32"W.

b. Description of the Construction Activity

The work under this contract includes, but is not limited to:

1.) Site Clearing and Removals
2.) Earthwork and Grading
3.) Construction of Bridge Numbers 1679 (NB I-490 over Higgins Creek & MWRD) and 1680 (SB I-490 over Higgins Creek & MWRD)
4.) Construction of Retaining Walls WA6.16R,EB(R) and WA6.36R,NB(R) and modification of Retaining Wall NW74.5R,WB(R)
5.) Drainage System Installation
6.) Signing and Pavement Marking
7.) Roadway Lighting Installation
8.) Intelligent Transportation Systems (ITS) Infrastructure
9.) Erosion and Sediment Control
10.) Landscaping
11.) Temporary Culvert Installation and Temporary Higgins Creek Crossing Construction.
12.) Traffic Control and Protection
13.) Utility Relocation and Protection
14.) All other appurtenant and miscellaneous construction shown on the plans and within these Special Provisions.

The following work will require design by the Contractor as it is included in this contract as a performance specification:

1) Mechanically Stabilized Earth Retaining Walls
2) Temporary Soil Retention Systems
3) Temporary Access Road (Special)

c. Sequence of Major Earth Disturbing Construction Activities

The following is 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:

1. Install Erosion and Sediment Control Measures and Temporary Construction Fence
2. Clearing and Removals
3. Earthwork
4. Stockpile of Surplus Suitable Materials and Topsoil at Locations Shown on Plans
5. Dispose of Unsuitable Materials
6. Construct Temporary Cell 3
7. Install and maintain Concrete Truck Washout Facilities
8. Construct Temporary Culverts and Crossing of Higgins Creek
9. Construct NSMJAWA Main Protections
10. Construct Cell 2 Temporary Access Facilities
11. Construct Proposed Culverts, Storm Sewers, and End Sections including Articulated Concrete Block Systems
12. Construct Temporary Soil Retention System
13. Remove Existing Retaining Wall
14. Construct Ramps X2 and X4 Retaining Walls
15. Construct Drilled Shafts and Piers
16. Grading of Ditches
17. Topsoil Placement
18. Final Seeding/Stabilization on all disturbed areas including Erosion Control Blanket on bare earth slopes
19. Remove Temporary Erosion and Sediment Control Measures and restore affected areas

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 the Suggested Progress Schedule which will be maintained and updated as necessary and made part of the SWPPP.

Additional details regarding the progress PRD-01 to PRG-03 "Suggested Progress Schedule", Sheets ERC-01 to ERC-17 "Erosion and Sediment Control Plans", and Sheets LND-01 to LND-10 "Landscape Plans" and shall be made part of the SWPPP. Where deviations from those drawings are required due to field conditions, the Engineer shall document and maintain a record of the changes as part of this SWPPP.

d. Total Construction Area and Total Area of Earth Disturbance

The total area of the construction sites is estimated to be **73** 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 **67** acres.

e. Runoff Coefficients

The estimated runoff coefficients of the various areas of the site after

construction activities are completed are contained in the project drainage study which is hereby incorporated by reference.

f. Soil Characteristics

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

https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx**.**

g. Topography and Drainage

On the south side of I-90, Higgins Creek runs through the property and is bordered by the 2 large-scale cells of the Touhy Avenue Reservoir (TAR) system. In existing conditions, the site drains to Higgins Creek or directly to the TAR basins. In proposed conditions, all water from the proposed roadway and bridges will be treated before entering Higgins Creek or the TAR basins.

North of I-90, the previously existing oasis drained to ditch systems. In proposed conditions, the ramps will drain to ditches and into a proposed detention facility.

h. Drainage System Ownership

The drainage systems which receive stormwater discharge from the project are owned by the Metropolitan Water Reclamation District.

i. Site Maps

The 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 locations, 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 stormwater is discharged from the project to a surface water. These include:

Removal Plans, Sheets REM-01 to REM-13
Drainage and Utility Removal Plans, Sheets EDR-01 to EDR-06
Drainage Plans, Sheets DRN-01 to DRN-06
Pipe Underdrain Plans, Sheets UDR-01 to UDR-06
Environmental Soil Classification Plans, Shts. EWP-01 to EWP-05
Erosion and Sediment Control Plans, Sheets ERC-01 to ERC-17
Landscape Plans, Sheets LND-01 to LND-10

j. Receiving Waters and Wetland Acreage

The primary stream which receives runoff from the site is Higgins Creek which drains to Willow Creek, then the Des Plaines River.

Wetland Site #28 will be partially filled and mitigated on site. The impacted area is 1.33 acres.

k. 303(d) Listed Receiving Waters

Higgins Creek is a medium priority 303(d) listed water for Phosphorous (Total) and an unknown cause. Phosphorous impairment is usually associated with farmland/fertilizer runoff. No farmland will be disturbed as part of this project. All site runoff draining to Higgins Creek will be protected by super silt fence and seeding.

l. Receiving Waters with Total Maximum Daily Load (TMDL)

Higgins Creek is listed as impaired due to Phosphorus (Total) and Causes Unknown.

m. Site Features and Sensitive Areas to be Protected

Sensitive environmental resources or site features on or adjacent to the project site that will have the potential to be impacted by the proposed construction and are to be protected and/or remain undisturbed are identified below. These may include but are not limited to steep slopes, highly erodible soils, wetlands, streams and other waterways, existing natural buffers, specimen trees, natural and mature vegetation, nature preserves, floodplains, bioswales, threatened or endangered species, and historic/archaeological resources.

Higgins Creek, which runs through the project site, should remain protected and undisturbed. Some construction work is proposed within MWRD basins Cell 1 and Cell 2. Both cells should remain protected where construction activities are not occurring.

n. Pollutants and Pollutant Sources

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):

o. Applicable Federal, State or Local Requirements

Procedures and requirements specified in applicable sediment and erosion control site plans or storm water management plans approved by local officials, or are required by Federal or State regulatory agencies are described below:

- All applicable sediment and erosion control and storm water management plans should align with the rules and regulations stated in the Cook County Watershed Management ordinance (as administered by MWRDGC).

2. Controls.

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

The Erosion and Sediment Control Plans ERC-01 to ERC-14 included in the Contract Documents define the size and location of the measures to be installed during the construction of this project.

a. Stabilization Practices

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavation or other earth disturbing activities have permanently ceased on any portion of the site, 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 and the locations for use. 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
- ☐ Dust Suppression Agents
- ☒ Soil Stockpile Management
- ☐ Other (specify):
- ☐ Other (specify):
- ☐ Other (specify):

☐ Other (specify):

Description of Interim Stabilization Practices:

Temporary seeding and erosion control blanket will be placed on all graded areas and other disturbed slopes.

Description of Final Stabilization Practices:

- Permanent seeding and erosion control blanket will be placed on all graded areas any other disturbed slopes.

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.

b. 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): Articulated Concrete Block Revetment Mat
☐ Other (specify):
☐ Other (specify):
☐ Other (specify):

Description of Structural Practices:

Initial Construction:

All sheet flows which exits or enters the site will encounter silt fence or super silt fence for sedimentation control.

The temporary stream crossing will be construction across Higgins Creek for construction access.

Stabilized construction entrances will be set up.

Temporary ditch checks will be placed in the ditch line. Temporary pipe slope drains will be placed in required ditches according to the plan set. Pipe slope drains utilitze temporary riprap.

Filter fabric or rectangular inlet protection will be placed in all existing inlet structures within the project area.

A temporary sediment basin shall be construction in the MWRD Cell 2. The sediment basin is placed using temporary riprap.

During Construction:

Silt fence and super silt fence around the project perimeter will be maintained.

All temporary ditch checks and temporary pipe slope drains will be maintained.

The temporary sediment basin will be maintained.

Rectangular inlet protection will be added to newly placed inlets within infield or grassed areas.

Once a culvert has been constructed, culvert inlet protection will be placed. Stone culvert inlet protection is placed using temporary riprap.

All inlet protection devices will be cleaned and maintained.

A stone outlet structure sediment trap shall be placed during the

construction of Basin B5-E. The sediment trap is placed using temporary riprap.

Flotation blooms shall will be added prior to installation of proposed headwalls that directly outlet to Higgins Creek.

Articulated concrete block revetment mat will be placed as shown on the plans in correspondence with the construction of all headwall outlets.

Post Construction:

Once grading is completed, erosion control blankets and seeding will be applied to all slopes.

c. Treatment Chemicals

Provided below is a description of the planned use of polymer flocculants or treatment chemicals at the site. The location, use, and application technique, along with an explanation of need for their use is provided.

- No treatment chemicals will be used.

d. 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.

Permanent storm water management controls to be installed as part of the project are as follows:

- Site runoff will flow to stormwater management and water quality basins. Basin 52, located north of I-90, will be expanded from a previous contract. Basin D5-E will be constructed south of I-90. Basin D5-S, located in the I-490/Touhy Avenue interchange, will be constructed as part of a separate contract.
- Flow dissipation devices will be placed at pipe outlet locations.

e. Pollution Prevention

The following pollution prevention measures will be implemented to minimize the exposure of products or materials to precipitation and stormwater and minimize the discharge of pollutants on the project site:

- Contaminated soils will be hauled off-site and properly disposed of.

Spill Prevention and Cleanup Coordinator:

Chris Naulty	Judlau Contracting, Inc.
Printed Name	Contractor Name

Additional Trained Spill Prevention and Response Personnel:

Vincent Picardi	Judlau Contracting, Inc.
Printed Name	Contractor Name
Hector Gonzalez	Judlau Contracting, Inc.
Printed Name	Contractor Name

f. Other Controls

Practices to prevent the discharge of pollutants to the storm drain system or to watercourses as a result of the creation, collection, and disposal of wastes are as follows:

- Stabilized construction entrances will be provided and maintained.

g. Natural Buffers

There are no wetlands or natural buffer areas on the site.

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:

- 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. Remove trash accumulated around or on top of 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. Reestablish 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 Erosion Control Seeding: Reapply seed if stabilization hasn't been achieved. Apply temporary 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 1V:4H to prevent sheet-flow from becoming concentrated flow patterns. Mow, if necessary, to promote seed soil contact when excessive weed development occurs (a common indication of ineffective temporary seeding). Supplement seed if weather conditions (extreme heat or cold) are not conducive to germination.

- 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 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. Ensure culverts are free from damage.

- 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.

- 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 restaple.

- Temporary Slope Drains: Fill eroded area at inlet with well-compacted soil. Stabilize outfall to eliminate scour. Repair leaks along length of pipe and re-compact soil to stabilize pipe. Reconnect pipe at joints when separation

occurs. Restore or increase anchors along length of pipe to ensure pipe stability. If slope drain washes out it may be necessary to use aggregate-lined channels or additional drains.

- 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.

- Vehicle and Equipment Fueling, Cleaning and Maintenance: Cleanup 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.

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 Storm Water Pollution Prevention Plan 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 Storm Water Pollution Prevention Plan, 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 allowable non-stormwater discharges may combine with stormwater discharges that are treated by the measures included in this plan and are anticipated on the project:

Allowable Non-Stormwater Discharges	**Likely to be Present on the Site**	
	Yes	**No**
Waters used to wash vehicles where detergents are not used	☒	☐
Waters used to control dust	☐	☒
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	☐	☒
Landscape irrigation drainages	☐	☒
Uncontaminated groundwater or spring water	☐	☒
Foundation or footing drains where flows are not contaminated with process materials, such as solvents	☐	☒
Potable water sources including uncontaminated water main or fire hydrant flushing water	☐	☒
Discharges from dewatering of trenches and excavations if managed by appropriate controls	☒	☐

For each allowable non-stormwater discharge anticipated on the project, the measures which will be used to eliminate or reduce the non-stormwater component of the discharge are described below:

- A truck wash-out area should be established to direct and clean runoff from vehicle washing.

6. 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.**

7. 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 of stabilized construction entrances and exists to be used and provide a description of how they will be maintained.

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

- 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 – Describe 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 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 – Identify where vehicle and equipment cleaning and maintenance will be performed and what BMPs will be used for spill containment and spill prevention, and containment and treatment of wash waters.

- Dewatering – Identify the controls which will be used for any dewatering operations to ensure sediments will not leave the construction site.

- In-stream Work Plan – Discuss sequence and procedure to be used and how it will comply with the In-stream and Streamside Notes listed in Volume 2 of the plan set for the temporary stream crossing and outlet construction.

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

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

- An erosion and sediment control schedule should be provided per Article 280.02 of the Supplemental Specifications.

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 Western Access Tollway Marked I-490

Section Mile Post 5.9 to Mile Post 6.25 Project No. I-18-4705

County Cook

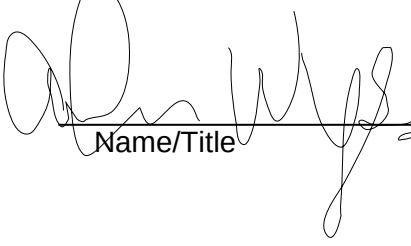
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage 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: Exp U.S. Services Inc.
DESIGN SECTION ENGINEER

By: Thomas M. Hough, P.E./ Project Manager
Name/Title

Dated: 04/21/2020

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 Western Access Tollway Marked I-490

Section Mile Post 5.9 to Mile Post 6.25 Project No. I-18-4705

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.

	4/8/20
Signature	Date
Assistant Project Manger	
Title	
Judlau Contracting, Inc.	
Name of Firm	
1011 Warrenville Rd - Suite 195	
Street Address	
Lisle IL 60532	
City State Zip Code	
630-387-6073	
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.

GENERAL NOTES

1) THE PERMANENT SEEDING SHALL BE USED ON ALL DISTURBED AREAS WHENEVER POSSIBLE.

2) ALL TEMPORARY STOCKPILES SHALL HAVE SILT FENCE AT THE PERIMETER OF THE STOCKPILE, STOCKPILES SHALL NOT BE LOCATED CLOSER THAN 25 FEET TO A PAVED ROADWAY OR 100 FEET TO A DRAINAGE CHANNEL. STOCKPILES SHALL NOT BE LOCATED IN THE FLOODPLAIN, OVERFLOW ROUTES, RIPARIAN AREAS (VEGETATED FLOODPLAINS), WETLANDS, WATERS OF THE U.S., OR AREAS SUBJECT TO INUNDATION. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER. SEDIMENT CONTROL MEASURES MUST BE IN PLACE PRIOR TO THE BUILDING OR REMOVAL OF ANY STOCKPILE.

3) RUNOFF LEAVING THE JOB SITE MUST PASS THROUGH AN EROSION AND SEDIMENT CONTROL SYSTEM FOLLOWING TOLLWAY STANDARDS AND AS SHOWN IN THE PLANS.

4) THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.

5) TEMPORARY STABILIZED CONSTRUCTION ENTRANCES, GRAVEL ROADS, ACCESS DRIVES, AND PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF THE WORKDAY OR SOONER AS DIRECTED BY THE ENGINEER.

6) SHOULD IT BE NECESSARY TO REMOVE ANY EROSION CONTROL DEVICES FOR CONSTRUCTION REASONS, THE CONTRACTOR SHALL FIRST OBTAIN PERMISSION AND SHALL REPAIR OR REPLACE THE REMOVED DEVICES THE SAME DAY. THE COST OF REMOVING AND REPLACING THE DEVICE SHALL BE INCIDENTAL TO THE CONTRACT.

7) SILT FENCE SHALL BE USED AS A PERIMETER SEDIMENT BARRIER TO FILTER RUNOFF LEAVING THE PROJECT LIMITS AS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. THE RESIDENT ENGINEER SHALL MAKE THE FINAL DETERMINATION ON PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.

8) EXISTING AND PROPOSED DRAINAGE STRUCTURES RECEIVING RUNOFF SHALL BE PROTECTED BEFORE CONSTRUCTION COMMENCES UPSTREAM.

9) THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER EARTH AREAS MAY BE STABILIZED WITH FINAL VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING FINAL SEEDING AND EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET.

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

11) EROSION AND SEDIMENT CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL 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.

12) TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED, EFFECTIVE, AND MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SHUTDOWN PERIODS.

13) 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.

14) TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY DEVIATION FROM THE TEMPORARY EROSION CONTROL PLAN OR SCHEDULE SHALL BE AT THE DISCRETION OF THE ENGINEER.

15) IN CASE OF CONFLICT BETWEEN THE EROSION CONTROL TABLES, EROSION CONTROL PLAN AND OVERVIEW DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER AND RECEIVE CLARIFICATIONS BEFORE PROCEEDING WITH THE WORK.

16) THE CONTRACTOR SHALL SUBMIT AS PART OF THEIR SIGNED CONTRACTOR CERTIFICATION STATEMENT THE ITEMS SPECIFIED IN S.P. 111.2, STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

GENERAL NOTES (CONT'D)

17) 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, LUBRICANTS, OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON OR IN SUPPORT OF THE PROJECT.

18) THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED 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.

19) ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND DISTURBED AREAS ARE PERMANENTLY STABILIZED.

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

21) SOIL DISTURBANCE SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES. TO THE MAXIMUM EXTENT POSSIBLE, EROSION SHALL BE MINIMIZED AT ITS SOURCE.

22) STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ON PUBLIC RIGHT-OF-WAY OR STREETS. STABILIZED CONSTRUCTION ENTRANCES SHALL ONLY BE CONSTRUCTED AT LOCATIONS APPROVED BY THE ENGINEER.

23) SAME DAY STABILIZATION IS TO BE IMPLEMENTED AS OUTLINED IN THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATION ARTICLES 280.15(C). SAME DAY STABILIZATION SHALL BE USED TO MINIMIZE EROSION AND THE MOVEMENT OF SOILS AT THOSE AREAS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER IN EROSIVE PRONE AREAS, OR AREAS WITHIN 100 FEET OF SURFACE WATERS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS.

24) REMOVING AND RE-INSTALLING INLET PROTECTION DEVICES TO ACCOMMODATE DRAINAGE STRUCTURE ADJUSTMENT IS INCLUDED IN THE COST OF THE INLET PROTECTION DEVICE.

25) THE INSTALLATION, MAINTENANCE, REMOVAL, AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF SILT FENCE IS INCLUDED IN THE CONTRATOR UNIT PRICE FOR SILT FENCE. AFTER THE REMOVAL OF SILT FENCE, THE AREAS DISTURBED BY THE FENCE INSTALLATION SHALL BE RESTORED.

26) THE LOCATIONS OF ALL EROSION CONTROL MEASURES SHOWN IN THE PLANS ARE APPROXIMATE AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS. ALL INSTALLATION LOCATIONS ARE TO BE VERIFIED WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

27) THE CONTRACTOR IS RESPONSIBLE FOR STAGING WORK SO EROSION CONTROL MEASURES ARE PROVIDED AT ALL TIMES AT LOCATIONS WHERE ARTICULATED CONCRETE BLOCK IS TO BE INSTALLED. IF TEMPORARY RIPRAP IS REQUIRED PRIOR TO ARTICULATED CONCRETE BLOCK INSTALLATION, THE CONTRACTOR IS TO PROVIDE AND INSTALL AT NO ADDITIONAL COST.

INSPECTION AND MAINTENANCE

1) 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 & SEDIMENT CONTROL MEASURES AND IMPLEMENTATION OF THIS PLAN.

2) A MAINTENANCE INSPECTION REPORT SHALL BE PREPARED AFTER EACH INSPECTION AND RETAINED FOR REVIEW BY THE IEPA OR OTHER REGULATORY AGENCIES. SEE NPDES GENERAL PERMIT ILR10 ISSUED BY THE IEPA.

3) INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM 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.

4) ALL CONTROLS SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR. IF REPAIR IS WARRANTED IT SHALL BE INITIATED WITHIN 24 HOURS.

5) NEW CONTROL MEASURES NEEDED OR CONTROLS NEEDING MODIFICATION AS A RESULT OF AN INSPECTION SHALL BE IMPLEMENTED AS SOON AS PRACTICAL BUT NO LATER THAN 7 DAYS FOLLOWING INSPECTION.

INSPECTION AND MAINTENANCE (CONT'D)

6) REQUESTS FOR REPAIRS TO EXISTING CONTROLS OR NEW CONTROL MEASURES REQUESTED BY A REGULATORY AGENCY SHALL BE INITIATED WITHIN 24 HOURS.

7) 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. REMOVE TRASH ACCUMULATED AROUND OR ON TOP OF PRACTICE. WHEN FILTER IS REMOVED FOR CLEANING, REPLACE FABRIC IF ANY TEAR IS PRESENT.

8) 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.

9) TEMPORARY DITCH CHECKS: REMOVE SEDIMENT FROM UPSTREAM SIDE OF DITCH CHECKS WHEN SEDIMENT HAS REACHED 50% 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. REESTABLISH 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 THE SITE CONDITIONS. REMOVE DITCH CHECKS ONCE ALL UPSLOPE AREAS ARE STABILIZED AND SEED OR OTHERWISE STABILIZE TEMPORARY DITCH CHECK AREAS.

10) 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.

11) 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. ENSURE CULVERTS ARE FREE FROM DAMAGE.

12) 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.

13) TEMPORARY SLOPE DRAINS: FILL ERODED AREA AT INLET WITH WELL-COMPACTED SOIL. STABILIZE OUTFALL TO ELIMINATE SCOUR. REPAIR LEAKS ALONG LENGTH OF PIPE AND RE-COMPACT SOIL TO STABILIZE PIPE. RECONNECT PIPE AT JOINTS WHEN SEPARATION OCCURS. RESTORE OR INCREASE ANCHORS ALONG LENGTH OF PIPE TO ENSURE PIPE STABILITY. IF SLOPE DRAIN WASHES OUT IT MAY BE NECESSARY TO USE AGGREGATE-LINED CHANNELS OR ADDITIONAL DRAINS.

14) LOCATIONS WHERE VEHICLES ENTER AND EXIT SITE - INSPECT FOR EVIDENCE OF OFF SITE SEDIMENT TRACING, REMOVE SEDIMENT AS NECESSARY.

15) 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 RESTAPLE.

16) 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.

17) 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.

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 WATERWAYS
   A) DURING WORK ON THE BANKS OF THE SWALE/RIVER/STREAM/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 AREA MEETING. EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.

   C) THE IN-STREAM WORK PLAN WILL 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 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 BYPASS 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/STREAM/RIVER/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 BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE SWALE MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.

   H) AN IN-STREAM WORK PLAN MUST BE SUBMITTED 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. NOTES

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

2) 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, THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, AND THE COUNTY SOIL AND WATER CONSERVATION DISTRICTS.

SEQUENCING NOTES

1) REFER TO SHEETS PRG-01 THRU PRG-03 FOR SUGGESTED PROGRESS SCHEDULE.

2) CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE THE TIME THE SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE SHALL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) CALENDAR DAYS PRIOR TO THE INITIATION OF IMPROVEMENTS.

3) ALL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE PHASED OR IMPLEMENTED PRIOR TO COMMENCEMENT OF UPLAND DISTURBANCE. ACTIVITIES CAUSING SOIL DISTURBANCE SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.

4) THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.

5) PERMANENT SEEDING SHALL BE PROVIDED AT ALL EXPOSED EARTH DURING CONSTRUCTION STAGES, AND AT ALL LOCATIONS AS DIRECTED BY THE ENGINEER.

6) THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO CLEARING AND GRADING:
   A) ERECT SILT FENCE, SUPER SILT FENCE AND FLOTATION BOOMS AS SHOWN IN THE PLANS.

   B) INSTALL STONE OUTLET STRUCTURES AND INLET PROTECTION ON EXISTING OPEN LID STRUCTURES.

   C) TEMPORARY DITCH CHECKS AND ROCK CHECK DAM WILL BE INSTALLED WITHIN EXISTING UNDISTURBED DITCHES FOR EROSION AND SEDIMENT CONTROL DOWNSTREAM OF DITCH DISTURBANCE.

   D) INSTALL STABILIZED CONSTRUCTION ENTRANCES, AS DIRECTED BY THE ENGINEER, AT ALL LOCATIONS OF CONSTRUCTION INGRESS AND EGRESS TO ELIMINATE TRACKING OF SEDIMENT FROM THE CONSTRUCTION SITE ONTO THE ROADWAYS.

7) THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED DURING CONSTRUCTION:
   A) PROTECT EXISTING VEGETATION TO REMAIN UNDISTURBED.

   B) INSTALL TEMPORARY DITCH CHECKS IMMEDIATELY AFTER PROPOSED DITCH GRADING IS COMPLETE. DITCH CHECKS SHALL BE LOCATED AS NOTED ON THE PLANS AND/OR AS DIRECTED BY ENGINEER.

   C) INSTALL INLET PROTECTION IMMEDIATELY AFTER STORM SEWER IS INSTALLED.

   D) FILTER DISCHARGE WATER FROM THE WORK AREA AND DEWATERING OPERATIONS. FILTERED WATER MUST BE VISIBLY CLEAR PRIOR TO DISCHARGING OFF-SITE.

8) IMMEDIATELY UPON COMPLETION OF CLEARING OR GRADING OR WITHIN 14 DAYS OF LAST DISTURBANCE, THE FOLLOWING MEASURES SHALL BE IMPLEMENTED:
   A) PROVIDE TEMPORARY STABILIZATION OVER DISTURBED AREAS WHERE EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, 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 IN AN AREA.

   B) PROVIDE PERMANENT STABILIZATION AS SHOWN ON THE PLANS AS SOON AS POSSIBLE AND IMMEDIATELY FOLLOWING THE REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

9) THE FOLLOWING MEASURES SHALL BE PROVIDED ON AN AS NEEDED BASIS:
   A) DUST SUPPRESSION SHALL BE APPLIED AS DIRECTED BY THE ENGINEER TO CONTROL DUST RESULTING FROM CONSTRUCTION OPERATIONS.

   B) STREET SWEEPING SHALL BE PERFORMED DURING EACH WORK DAY AS DIRECTED BY THE ENGINEER TO REMOVE SEDIMENT FROM THE ROADWAY.

   C) PORTABLE RESTROOM FACILITIES WILL BE LOCATED AND MAINTAINED AWAY FROM WATERS THAT DISCHARGE OFF-SITE TO CONTROL FECAL COLI FROM BACTERIA.

   D) EROSION AND SEDIMENT CONTROL CLEANOUT WILL BE DONE TO REMOVE SEDIMENT FROM DEVICES WHEN 50% FULL OR WHEN 50% OF THE DEVICE HEIGHT IS REACHED.

   E) TEMPORARY PIPE SLOPE DRAINS MAY BE INSTALLED AS DIRECTED BY THE ENGINEER.

EROSION AND SEDIMENT CONTROL SCHEDULE

STONE OUTLET STRUCTURE SEDIMENT TRAP SCHEDULE

SHEET	LOCATION	DRAINAGE AREA	WIDTH	LENGTH	DEPTH	WET STORAGE DESIGN VOLUME	OUTLET ELEVATION	BOTTOM ELEVATION	SPILLWAY HEIGHT	WEIR LENGTH	JS280030 EROSION AND SEDIMENT CONTROL - EXCAVATION	JS280040 EROSION AND SEDIMENT CONTROL - CLEANOUT	JS280140 TEMPORARY RIPRAP
		ACRE	FT	FT	FT	CU FT	FT MSL	FT MSL	FT	FT	CU YD	CU YD	TON
ERC-08	BASIN D5-E	5.00	20	100	8.00	18,090	648.00	640.00	8.00	15.0	670	670	460

TEMPORARY AGGREGATE BERM FOR TEMPORARY SEDIMENT BASIN SCHEDULE

SHEET	LOCATION	DRAINAGE AREA	TOP WIDTH	BASE WIDTH	BERM HEIGHT	WET STORAGE DESIGN VOLUME	WEIR LENGTH	JS280030 EROSION AND SEDIMENT CONTROL - EXCAVATION	JS280040 EROSION AND SEDIMENT CONTROL - CLEANOUT	JS280140 TEMPORARY RIPRAP
		ACRE	FT	FT	FT	CU FT	FT	CU YD	CU YD	TON
ERC-06	MWRD EX. BASIN	21.00	4	14	2	45,306	10.0	1678	1678	1,085

CULVERT INLET PROTECTION - STONE SCHEDULE

SHEET	STATION	OFFSET	PIPE DIA.	DRAINAGE AREA	TEMP. RIPRAP JS280140
			INCH	ACRE	TON
ERC-05	1304+83	145 RT	30		14.7
ERC-06	208+73	60 RT	15		14.7
ERC-07	432+68	72 RT	21		14.7
ERC-07	440+15	93 LT	24		14.7
ERC-07	437+94	35 RT	36		14.7
ERC-07	338+49	33 RT	36		14.7
ERC-09	214+95	24 RT	24		14.7
ERC-10	1309+48	423 LT	36		14.7

STABILIZED CONSTRUCTION ENTRANCE SCHEDULE

SHEET	ALIGNMENT	STATION	OFFSET	LENGTH FOOT	WIDTH FOOT	QUANTITY SQ YD
ERC-05	I-490	1296+55	435 LT	75	30	250
ERC-08	RAMP X-4	445+00	20 LT	75	30	250
ERC-09	RAMP X2	219+00	0 RT	75	30	250
ERC-12	JARVIS AVE	1212+50	0 RT	75	30	250
ERC-14	I-490	1285+37	98 RT	75	30	250
ERC-14	I-490	1296+64	136 LT	75	30	250

EROSION AND SEDIMENT CONTROL ITEMS

SHEET	TEMPORARY RIPRAP	TEMPORARY DITCH CHECK	SILT FENCE	RE-ERECT SILT FENCE	SUPER SILT FENCE	RECTANGULAR INLET PROTECTION	FILTER FABRIC INLET PROTECTION, BASKET TYPE	STABILIZED CONSTRUCTION ENTRANCE	TEMPORARY CONSTRUCTION FENCE	SAME-DAY STABILATION	FLOTATION BOOM
	JS280140	JS280305	JS280050	JS280051	JS280100	JS280180	JS280210	JS280070	JT900202	JS280151	JS280080
	TON	FOOT	FOOT	FOOT	FOOT	EACH	EACH	SQ YD	FOOT	SQ YD	FOOT
ERC-05	15	21	61	10	370			250		4,125	105
ERC-06	1,100	33	1256	130	2059	2	3		1277	14,405	192
ERC-07	70	213	1948	195		2	31			21,374	
ERC-08	460	24	1993	65	612		32	250	1016	6,114	
ERC-09	80	72	247	25		3	60	250		5,373	
ERC-10	26		1534	80	782					32,381	
ERC-11		51	1300	130			1			2,687	
ERC-12			287	30				250	220	1,060	
ERC-13			2751	280					145	220	
ERC-14			1424	145	467			500		500	

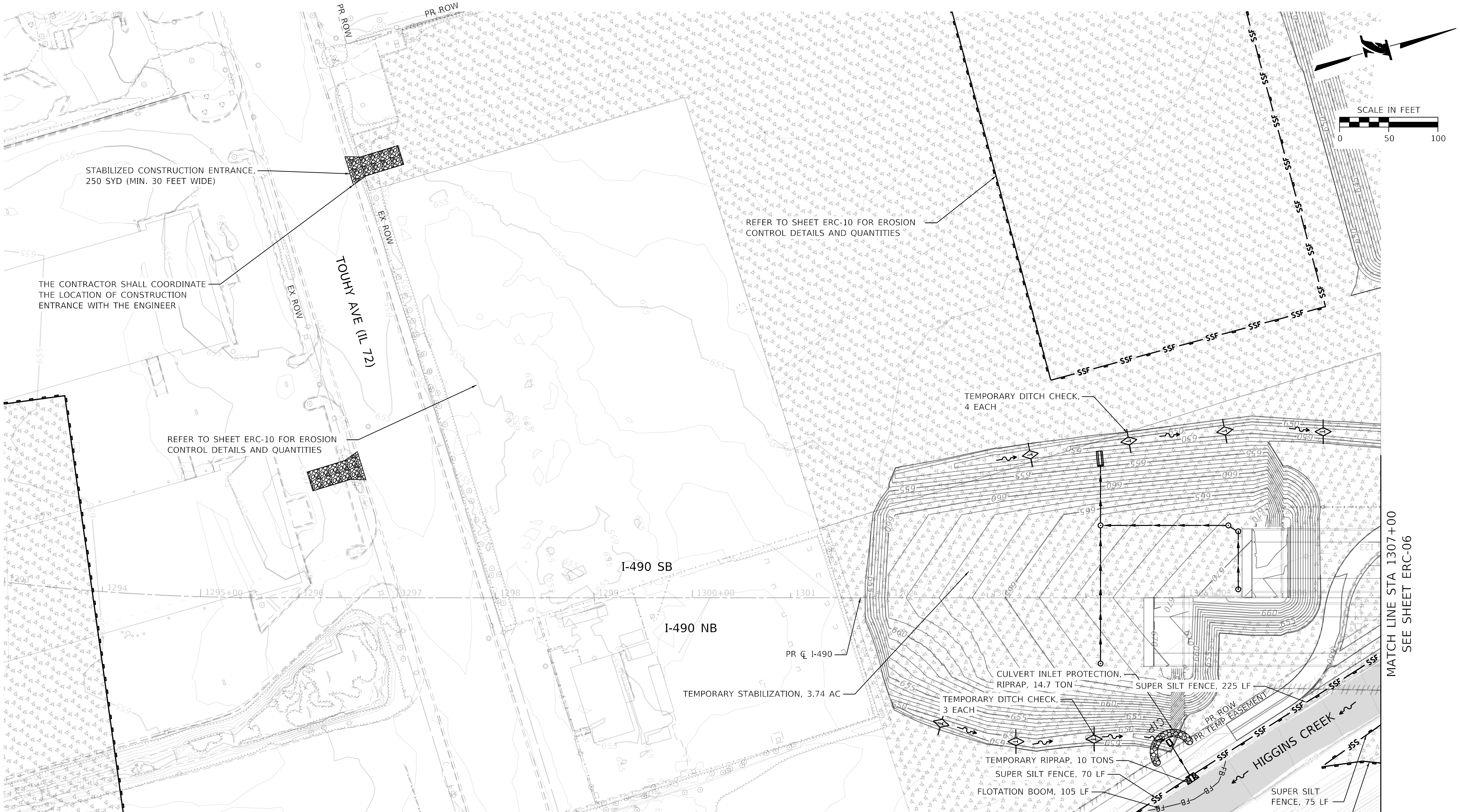
TEMPORARY PIPE SLOPE DRAIN SCHEDULE

SHEET	NO.	STATION	OFFSET	PIPE DIA.	TEMP. PIPE SLOPE DRAIN JS280110	TEMP. RIPRAP JS280140	HEAVY DUTY ER. CTRL BLNKT. 25100635	FILTER FABRIC 28200200
				INCH	FOOT	TON	SQ YD	SQ YD
ERC-06	1	208+92	30	18	60	-	20	-
ERC-09	1	211+32	80	18	205	28	-	30
ERC-09	2	212+17	30	12	48	14	12	15

LANDSCAPE SCHEDULE

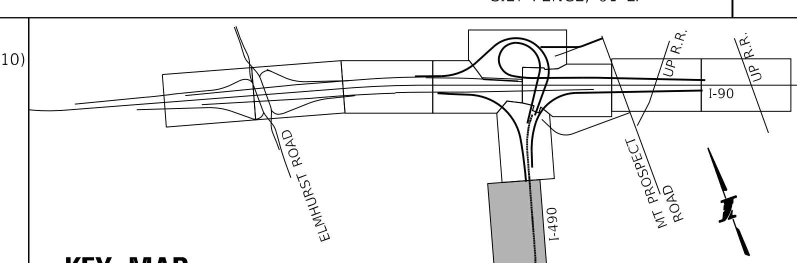
SEEDING SCHEDULE

SHEET	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SEEDING, CLASS 2E SALT TOLERANT ROADSIDE MIX (SPECIAL)	SEEDING, TALL FESCUE MIX (SPECIAL)	SEEDING, GRASS-FORB MIX (SPECIAL)	BIOSWALE SOIL PREPARATION	BIOSWALE PLUGS (SPECIAL)	BIOSWALE EROSION CONTROL BLANKET	EROSION CONTROL BLANKET	TURF REINFORCEMENT MAT
	20101400	20101600	JT250432	JT250454	JT250449	JT254200	JT254019	JT251020	JI251010	25100900
	POUND	POUND	ACRE	ACRE	ACRE	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
LND-01	90	270	1.51	0.39	1.11	-	-	-	14,568	-
LND-02	305	915	0.56	4.51	4.96	-	-	-	48,013	532
LND-03	445	1,335	2.80	3.66	8.26	1,162	1,162	1,162	71,245	-
LND-04	10	30	-	-	0.28	-	-	-	1,355	-
LND-05	130	390	1.37	1.67	1.17	-	-	-	20,376	-
LND-06	115	345	2.08	0.10	1.45	242	242	242	13,455	4,840
LND-07	575	1,725	-	3.42	15.74	-	-	-	92,734	-
LND-08	40	120	-	-	1.20	-	-	-	5,808	-
LND-09	20	60	-	-	0.56	-	-	-	2,710	-
LND-10	25	75	-	-	0.69	-	-	-	3,340	-



LEGEND

- CIP — CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
- TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
- SILT FENCE (JS280050)
- — SSF — SUPER SILT FENCE (JS280100)
- — XXX — TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)
- EXISTING DITCH FLOW
- PROPOSED DITCH / SWALE FLOW
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIP,B — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- EXISTING WETLANDS/WOUS
- TEMPORARY RIPRAP (JS280140)
- — FB — FLOTATION BOOM (JS280080)
- TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
- TEMPORARY PIPE SLOPE DRAIN (JS280110)



KEY MAP

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DBS — DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

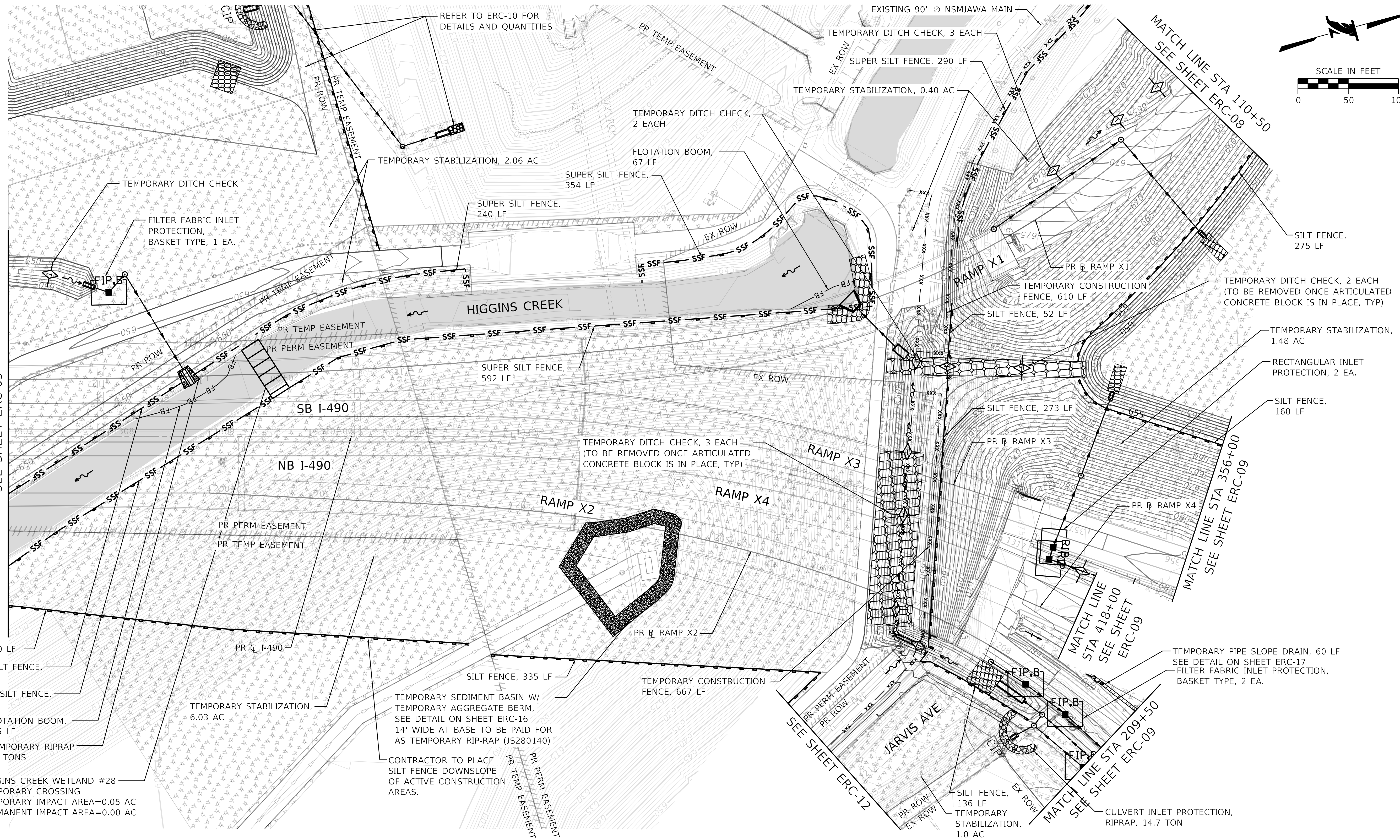
EROSION CONTROL PLAN

I-490 STA 1293+00 TO STA 1307+00

SHEET NO. ERC-05

DRAWING NO. 298 OF 840

PLOT SCALE: 100.0000 ' / in. PAGE SIZE: ANSI B



LEGEND

CIP — CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)

TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)

SILT FENCE (JS280050)

— SSF — SUPER SILT FENCE (JS280100)

— XXX — TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)

EXISTING DITCH FLOW

PROPOSED DITCH / SWALE FLOW

RIP — RECTANGULAR INLET PROTECTION (JS280180)

FIP,B — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)

EXISTING WETLANDS/WOUS

TEMPORARY RIPRAP (JS280140)

— FB — FLOTATION BOOM (JS280080)

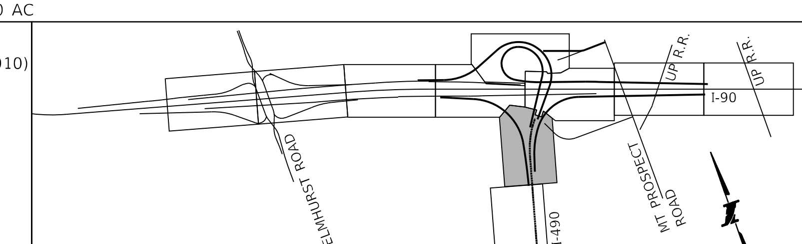
TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)

ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)

STABILIZED CONSTRUCTION ENTRANCE (JS280070)

STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)

TEMPORARY PIPE SLOPE DRAIN (JS280110)



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REVISIONS		
NO.	DATE	DESCRIPTION

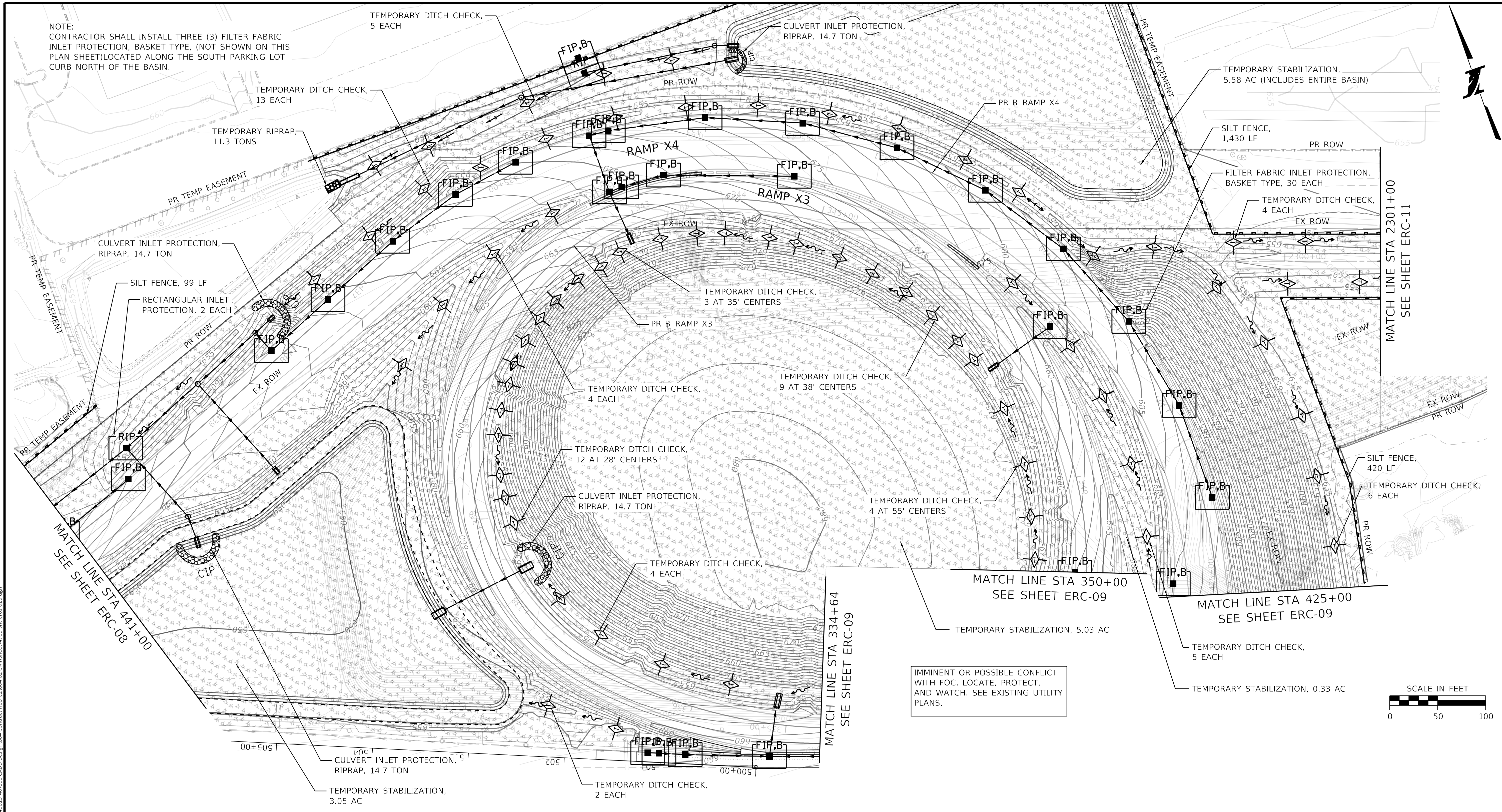
CONTRACT NO. I-18-4705

EROSION CONTROL PLAN

I-490 STA 1307+00 TO X4 STA 418+00

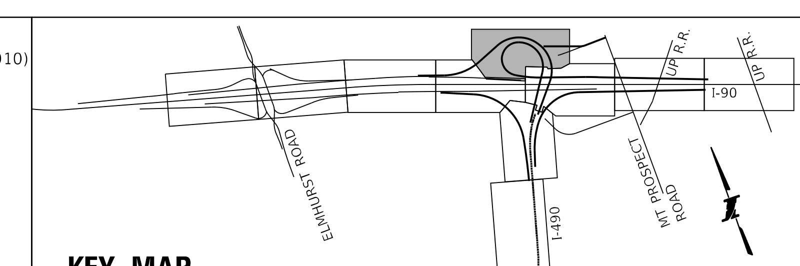
SHEET NO. ERC-06

DRAWING NO. 299 OF 840


NOTE:
CONTRACTOR SHALL INSTALL THREE (3) FILTER FABRIC INLET PROTECTION, BASKET TYPE, (NOT SHOWN ON THIS PLAN SHEET)LOCATED ALONG THE SOUTH PARKING LOT CURB NORTH OF THE BASIN.
TEMPORARY DITCH CHECK, 5 EACH
CULVERT INLET PROTECTION, RIPRAP, 14.7 TON
TEMPORARY DITCH CHECK, 13 EACH
TEMPORARY RIPRAP, 11.3 TONS
PR TEMP EASEMENT
PR ROW
RAMP X4
RAMP X3
PR ℄ RAMP X4
TEMPORARY STABILIZATION, 5.58 AC (INCLUDES ENTIRE BASIN)
SILT FENCE, 1,430 LF
FILTER FABRIC INLET PROTECTION, BASKET TYPE, 30 EACH
TEMPORARY DITCH CHECK, 4 EACH
EX ROW
CULVERT INLET PROTECTION, RIPRAP, 14.7 TON
SILT FENCE, 99 LF
RECTANGULAR INLET PROTECTION, 2 EACH
TEMPORARY DITCH CHECK, 3 AT 35' CENTERS
PR ℄ RAMP X3
TEMPORARY DITCH CHECK, 9 AT 38' CENTERS
TEMPORARY DITCH CHECK, 4 EACH
TEMPORARY DITCH CHECK, 12 AT 28' CENTERS
CULVERT INLET PROTECTION, RIPRAP, 14.7 TON
TEMPORARY DITCH CHECK, 4 AT 55' CENTERS
SILT FENCE, 420 LF
TEMPORARY DITCH CHECK, 6 EACH
MATCH LINE STA 2301+00 SEE SHEET ERC-11
MATCH LINE STA 441+00 SEE SHEET ERC-08
TEMPORARY DITCH CHECK, 4 EACH
MATCH LINE STA 350+00 SEE SHEET ERC-09
MATCH LINE STA 425+00 SEE SHEET ERC-09
MATCH LINE STA 334+64 SEE SHEET ERC-09
TEMPORARY STABILIZATION, 5.03 AC
TEMPORARY DITCH CHECK, 5 EACH
TEMPORARY STABILIZATION, 0.33 AC
IMMINENT OR POSSIBLE CONFLICT WITH FOC. LOCATE, PROTECT, AND WATCH. SEE EXISTING UTILITY PLANS.
SCALE IN FEET
0 50 100
CULVERT INLET PROTECTION, RIPRAP, 14.7 TON
TEMPORARY STABILIZATION, 3.05 AC
TEMPORARY DITCH CHECK, 2 EACH
FIP,B
RIP
CIP

LEGEND

- CIP — CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
- TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
- SILT FENCE (JS280050)
- SSF — SUPER SILT FENCE (JS280100)
- XXX — TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)
- EXISTING DITCH FLOW
- PROPOSED DITCH / SWALE FLOW
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIP,B — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- EXISTING WETLANDS/WOUS
- TEMPORARY RIPRAP (JS280140)
- FB — FLOTATION BOOM (JS280080)
- TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
- TEMPORARY PIPE SLOPE DRAIN (JS280110)



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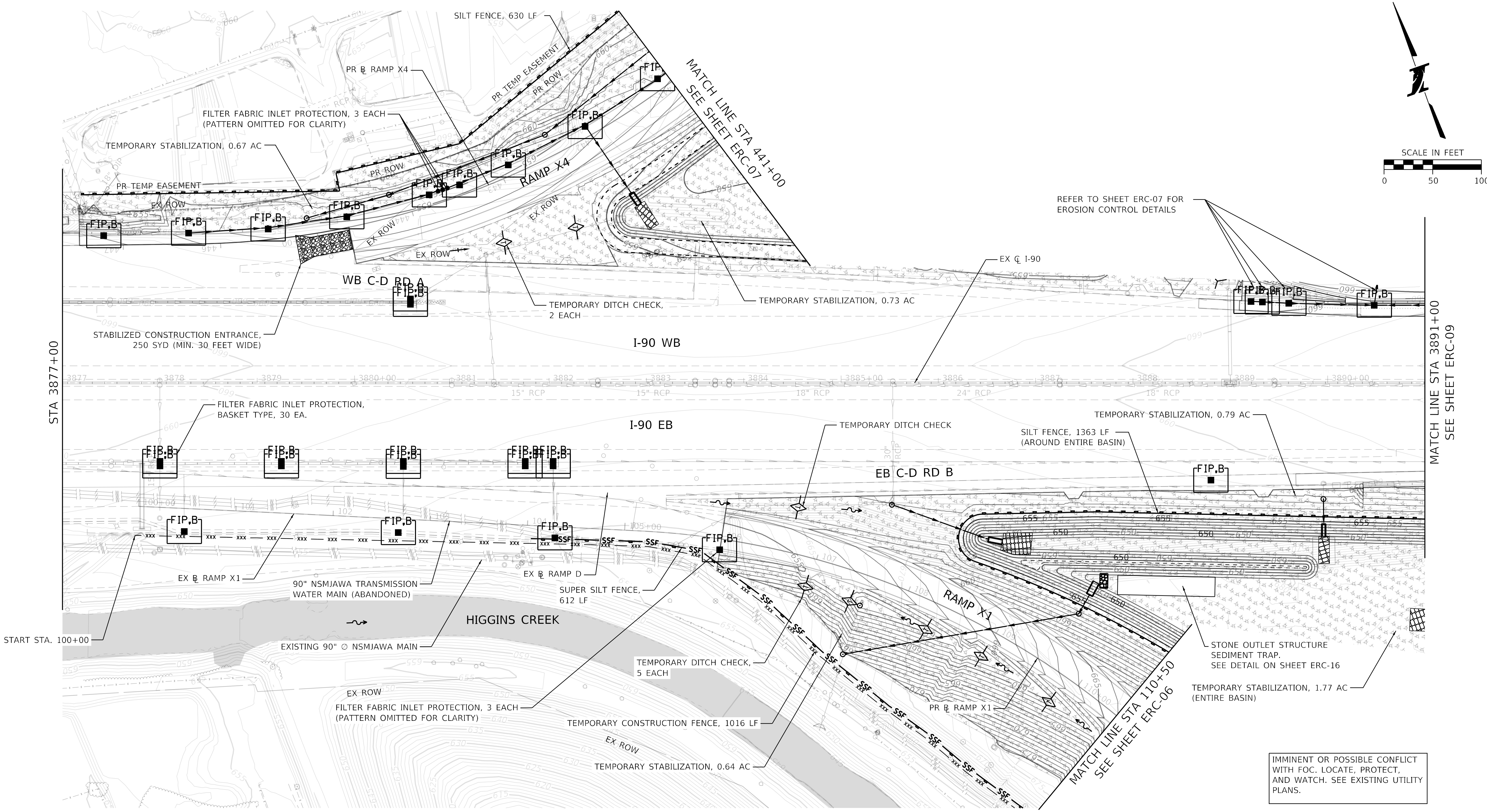
REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
X4 STA 425+00 TO STA 441+00

SHEET NO. ERC-07
DRAWING NO. 300 OF 840

PLOT SCALE: 100.0000 ' / in. PAGE SIZE: ANSI B



SILT FENCE, 630 LF
PR ℄ RAMP X4
PR TEMP EASEMENT
PR ROW
FILTER FABRIC INLET PROTECTION, 3 EACH
(PATTERN OMITTED FOR CLARITY)
TEMPORARY STABILIZATION, 0.67 AC
PR TEMP EASEMENT
EX ROW
RAMP X4
EX ROW
EX ROW
MATCH LINE STA 441+00
SEE SHEET ERC-07
WB C-D RD A
STABILIZED CONSTRUCTION ENTRANCE,
250 SYD (MIN. 30 FEET WIDE)
TEMPORARY DITCH CHECK,
2 EACH
TEMPORARY STABILIZATION, 0.73 AC
EX ℄ I-90
REFER TO SHEET ERC-07 FOR
EROSION CONTROL DETAILS
SCALE IN FEET
0 50 100
I-90 WB
STA 3877+00
MATCH LINE STA 3891+00
SEE SHEET ERC-09
15" RCP
18" RCP
24" RCP
FILTER FABRIC INLET PROTECTION,
BASKET TYPE, 30 EA.
I-90 EB
TEMPORARY DITCH CHECK
TEMPORARY STABILIZATION, 0.79 AC
SILT FENCE, 1363 LF
(AROUND ENTIRE BASIN)
EB C-D RD B
EX ℄ RAMP X1
90" NSMJAWA TRANSMISSION
WATER MAIN (ABANDONED)
EX ℄ RAMP D
SUPER SILT FENCE,
612 LF
HIGGINS CREEK
START STA. 100+00
EXISTING 90" ⊙ NSMJAWA MAIN
RAMP X1
STONE OUTLET STRUCTURE
SEDIMENT TRAP.
SEE DETAIL ON SHEET ERC-16
TEMPORARY DITCH CHECK,
5 EACH
EX ROW
FILTER FABRIC INLET PROTECTION, 3 EACH
(PATTERN OMITTED FOR CLARITY)
TEMPORARY CONSTRUCTION FENCE, 1016 LF
PR ℄ RAMP X1
TEMPORARY STABILIZATION, 1.77 AC
(ENTIRE BASIN)
EX ROW
TEMPORARY STABILIZATION, 0.64 AC
MATCH LINE STA 110+50
SEE SHEET ERC-06
IMMINENT OR POSSIBLE CONFLICT
WITH FOC. LOCATE, PROTECT,
AND WATCH. SEE EXISTING UTILITY
PLANS.

LEGEND

- CIP — CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
- TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
- SILT FENCE (JS280050)
- SSF — SUPER SILT FENCE (JS280100)
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- PROPOSED DITCH / SWALE FLOW
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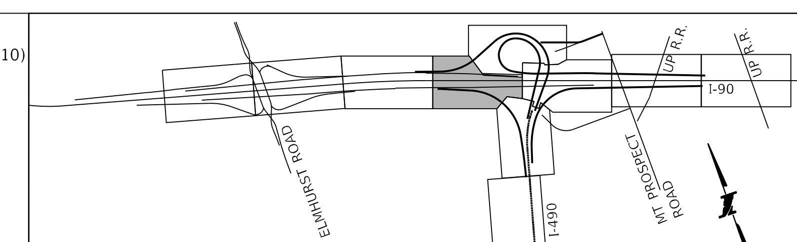
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
- TEMPORARY PIPE SLOPE DRAIN (JS280110)



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REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

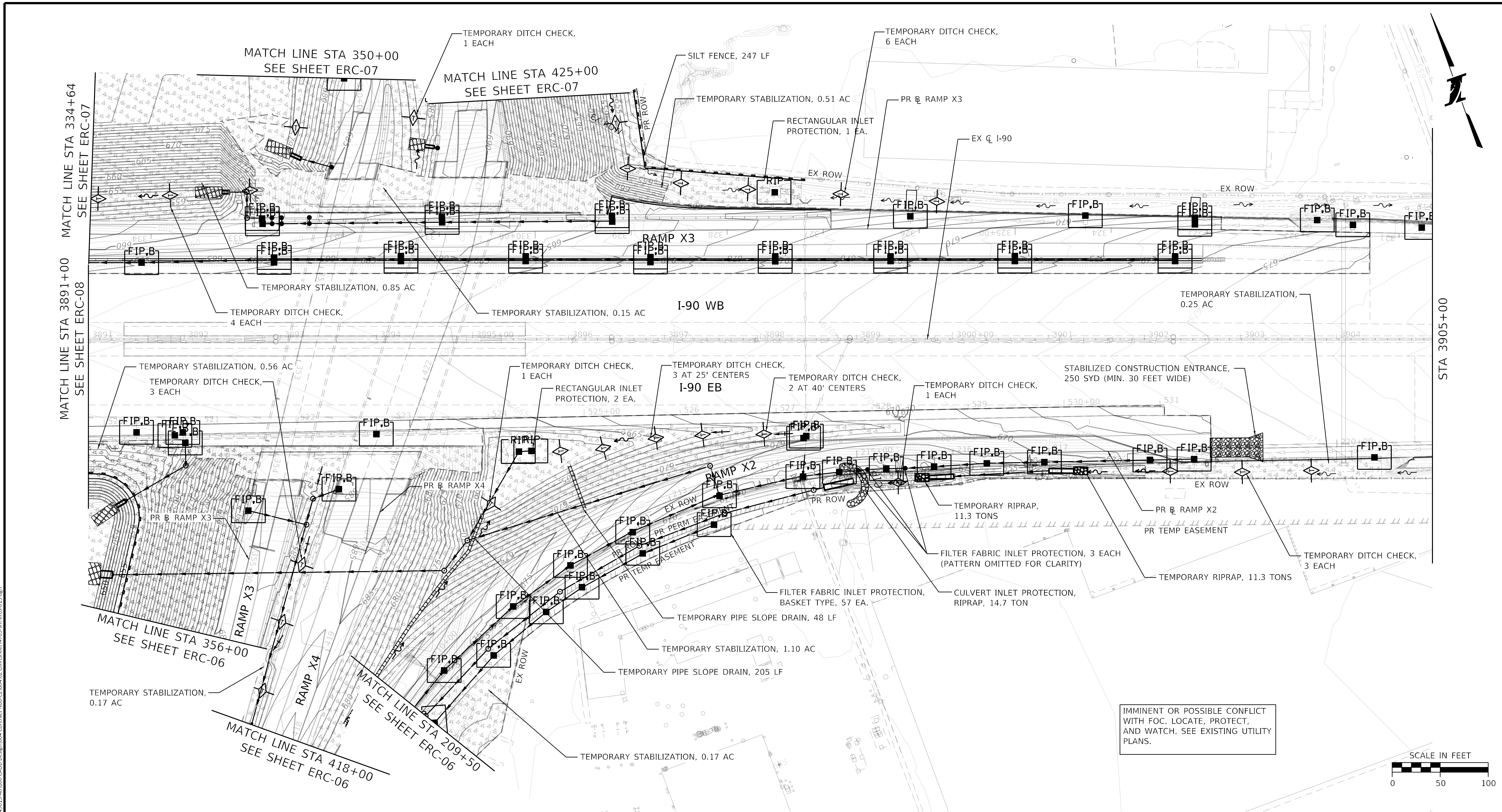
EROSION CONTROL PLAN

I-90 STA 3877+00 TO STA 3891+00

SHEET NO. ERC-08

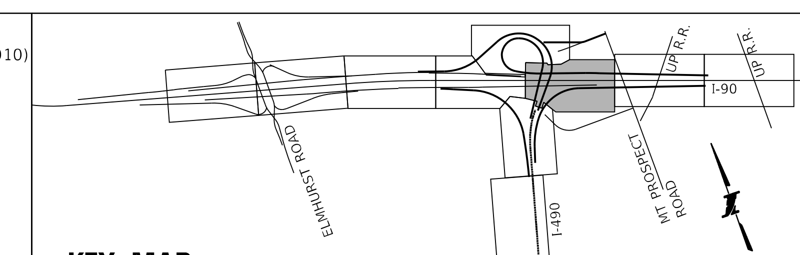
DRAWING NO. 301 OF 840

PLOT SCALE: 100.0000 ' / in. PAGE SIZE: ANSI B


MATCH LINE STA 350+00
SEE SHEET ERC-07
MATCH LINE STA 425+00
SEE SHEET ERC-07
MATCH LINE STA 334+64
SEE SHEET ERC-07
MATCH LINE STA 3891+00
SEE SHEET ERC-08
STA 3905+00
MATCH LINE STA 356+00
SEE SHEET ERC-06
MATCH LINE STA 418+00
SEE SHEET ERC-06
MATCH LINE STA 209+50
SEE SHEET ERC-06
TEMPORARY DITCH CHECK, 1 EACH
SILT FENCE, 247 LF
TEMPORARY DITCH CHECK, 6 EACH
TEMPORARY STABILIZATION, 0.51 AC
PR ℄ RAMP X3
RECTANGULAR INLET PROTECTION, 1 EA.
EX ℄ I-90
EX ROW
PR ROW
RAMP X3
I-90 WB
I-90 EB
TEMPORARY STABILIZATION, 0.85 AC
TEMPORARY DITCH CHECK, 4 EACH
TEMPORARY STABILIZATION, 0.15 AC
TEMPORARY STABILIZATION, 0.25 AC
TEMPORARY STABILIZATION, 0.56 AC
TEMPORARY DITCH CHECK, 3 EACH
TEMPORARY DITCH CHECK, 1 EACH
RECTANGULAR INLET PROTECTION, 2 EA.
TEMPORARY DITCH CHECK, 3 AT 25' CENTERS
TEMPORARY DITCH CHECK, 2 AT 40' CENTERS
TEMPORARY DITCH CHECK, 1 EACH
STABILIZED CONSTRUCTION ENTRANCE, 250 SYD (MIN. 30 FEET WIDE)
PR ℄ RAMP X4
PR ℄ RAMP X3
RAMP X2
RAMP X3
RAMP X4
TEMPORARY RIPRAP, 11.3 TONS
PR ℄ RAMP X2
PR TEMP EASEMENT
PR PERM EASEMENT
FILTER FABRIC INLET PROTECTION, 3 EACH (PATTERN OMITTED FOR CLARITY)
TEMPORARY DITCH CHECK, 3 EACH
TEMPORARY RIPRAP, 11.3 TONS
FILTER FABRIC INLET PROTECTION, BASKET TYPE, 57 EA.
CULVERT INLET PROTECTION, RIPRAP, 14.7 TON
TEMPORARY PIPE SLOPE DRAIN, 48 LF
TEMPORARY STABILIZATION, 1.10 AC
TEMPORARY PIPE SLOPE DRAIN, 205 LF
TEMPORARY STABILIZATION, 0.17 AC
TEMPORARY STABILIZATION, 0.17 AC
IMMINENT OR POSSIBLE CONFLICT WITH FOC. LOCATE, PROTECT, AND WATCH. SEE EXISTING UTILITY PLANS.
SCALE IN FEET
0 50 100

LEGEND

- CIP — CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
- TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
- SILT FENCE (JS280050)
- SSF — SUPER SILT FENCE (JS280100)
- XXX — TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)
- EXISTING DITCH FLOW
- PROPOSED DITCH / SWALE FLOW
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIP,B — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- EXISTING WETLANDS/WOUS
- TEMPORARY RIPRAP (JS280140)
- FB — FLOTATION BOOM (JS280080)
- TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
- TEMPORARY PIPE SLOPE DRAIN (JS280110)



KEY MAP

MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020
	CHECKED BY: HJM	DATE: 1/16/2020

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
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TEL. (312)857-1006 FAX. (312)857-1056

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

REVISIONS

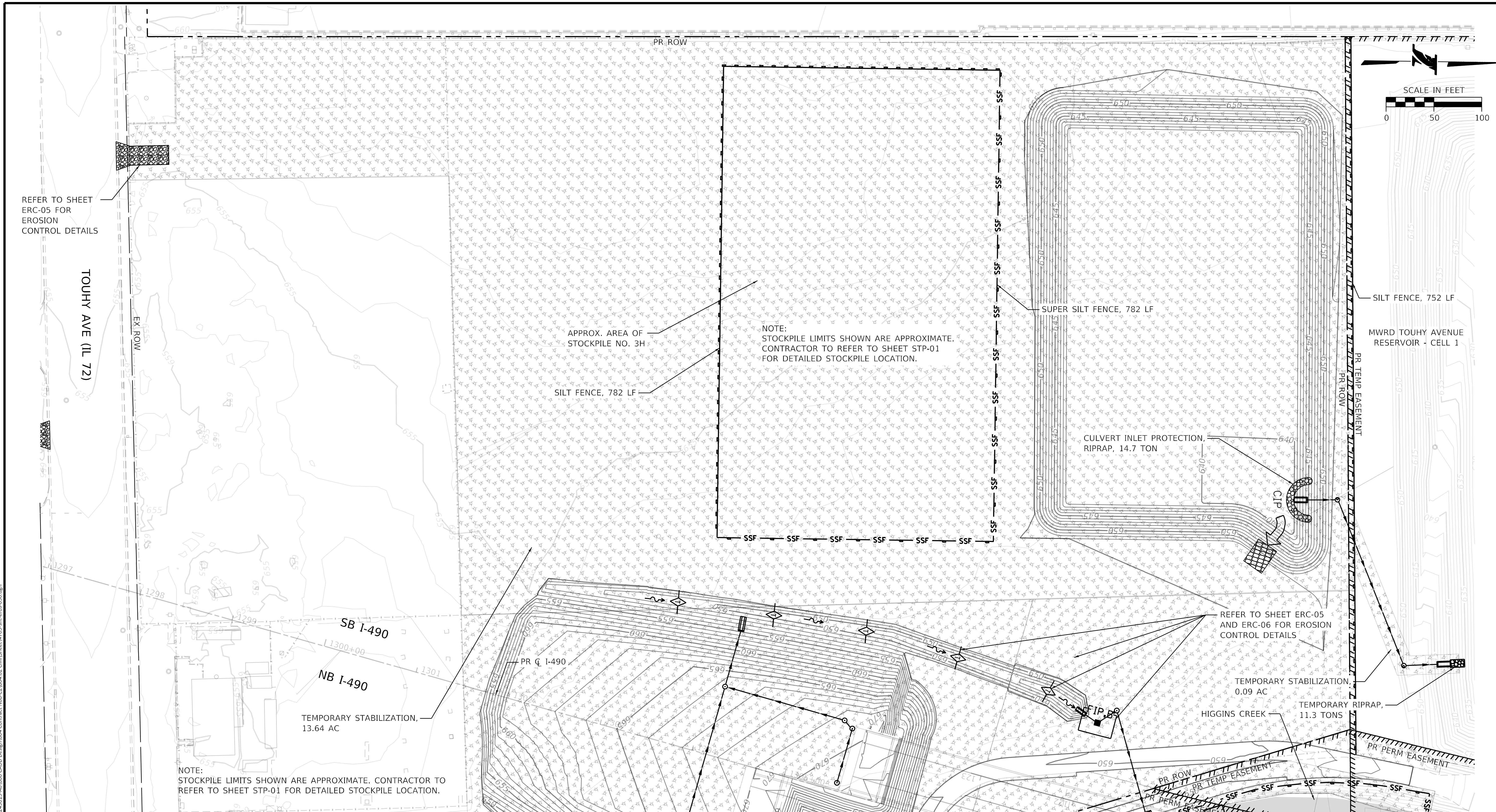
NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
I-90 STA 3891+00 TO STA 3905+00

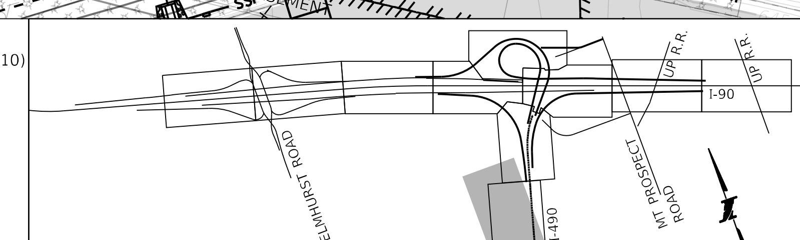
SHEET NO. ERC-09
DRAWING NO. 302 OF 840

PLOT SCALE: 100.0000 ' / in. PAGE SIZE: ANSI B



LEGEND

Symbol	Description
CIP	CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
T	TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
	SILT FENCE (JS280050)
SSF	SUPER SILT FENCE (JS280100)
XXX	TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)
	EXISTING DITCH FLOW
	PROPOSED DITCH / SWALE FLOW
RIP	RECTANGULAR INLET PROTECTION (JS280180)
FIP,B	FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
	EXISTING WETLANDS/WOUS
	TEMPORARY RIPRAP (JS280140)
FB	FLOTATION BOOM (JS280080)
	TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
	STABILIZED CONSTRUCTION ENTRANCE (JS280070)
	STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
	TEMPORARY PIPE SLOPE DRAIN (JS280110)



KEY MAP

MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020	
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020	
	CHECKED BY: HJM	DATE: 1/16/2020	

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

REVISIONS

NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
TEMPORARY CELL 3

SHEET NO. ERC-10
DRAWING NO. 303 of 840

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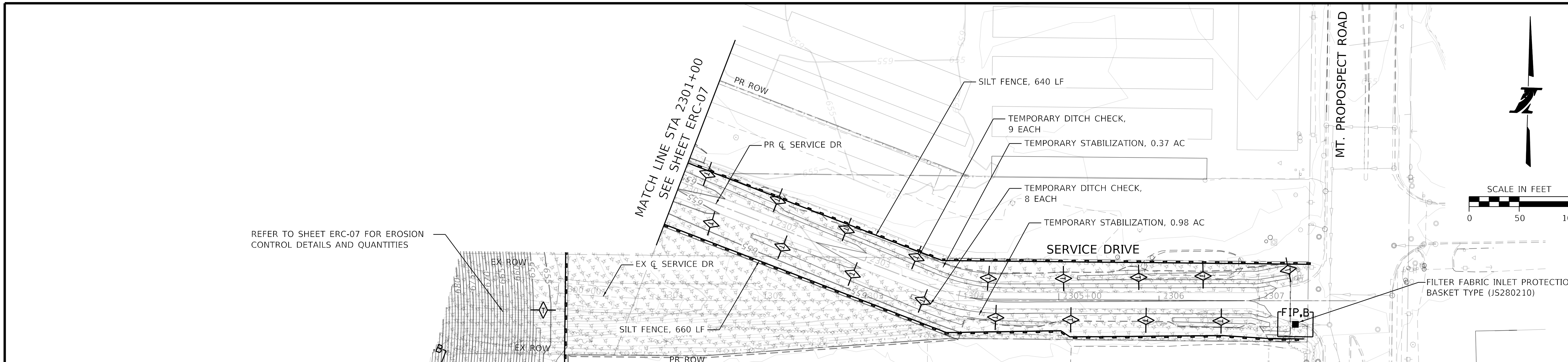
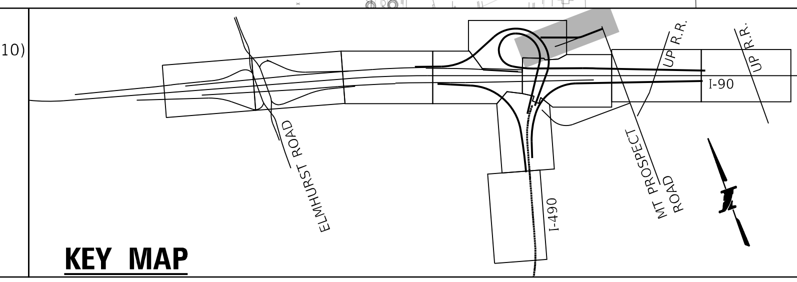


LEGEND

Symbol	Description
CIP	CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
	TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
	SILT FENCE (JS280050)
SSF	SUPER SILT FENCE (JS280100)
XXX	TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)
	EXISTING DITCH FLOW
	PROPOSED DITCH / SWALE FLOW
RIP	RECTANGULAR INLET PROTECTION (JS280180)
FIP,B	FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
	EXISTING WETLANDS/WOUS
	TEMPORARY RIPRAP (JS280140)
FB	FLOTATION BOOM (JS280080)
	TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
	STABILIZED CONSTRUCTION ENTRANCE (JS280070)
	STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
	TEMPORARY PIPE SLOPE DRAIN (JS280110)



KEY MAP

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ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020		
	CHECKED BY: HJM	DATE: 1/16/2020		

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123 N. WACKER DRIVE SUITE 2000
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

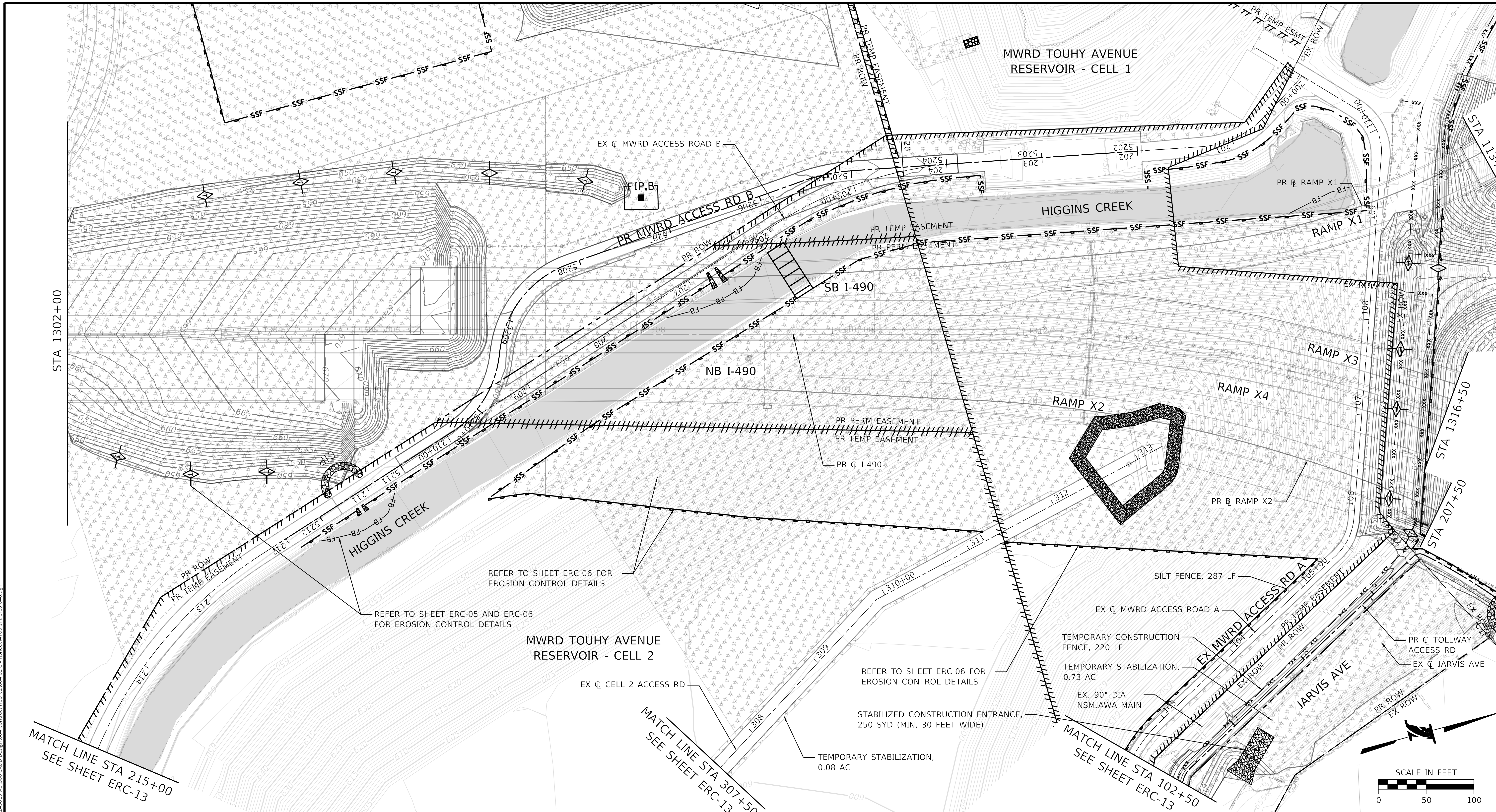
CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
SERVICE DRIVE

SHEET NO. ERC-11

DRAWING NO. 304 of 840

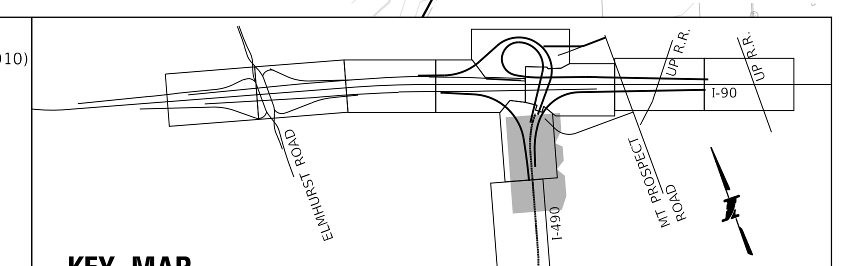
PLOT SCALE: 100.0000 ' / in. PAGE SIZE: ANSI B



LEGEND

- CIP — CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
- TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
- SILT FENCE (JS280050)
- — SSF — SUPER SILT FENCE (JS280100)
- — XXX — TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)
- EXISTING DITCH FLOW
- PROPOSED DITCH / SWALE FLOW
- RIP — RECTANGULAR INLET PROTECTION (JS280180)
- FIP,B — FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
- EXISTING WETLANDS/WOUS
- TEMPORARY RIPRAP (JS280140)
- — FB — FLOTATION BOOM (JS280080)
- TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
- ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
- STABILIZED CONSTRUCTION ENTRANCE (JS280070)
- STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
- TEMPORARY PIPE SLOPE DRAIN (JS280110)

KEY MAP



MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020
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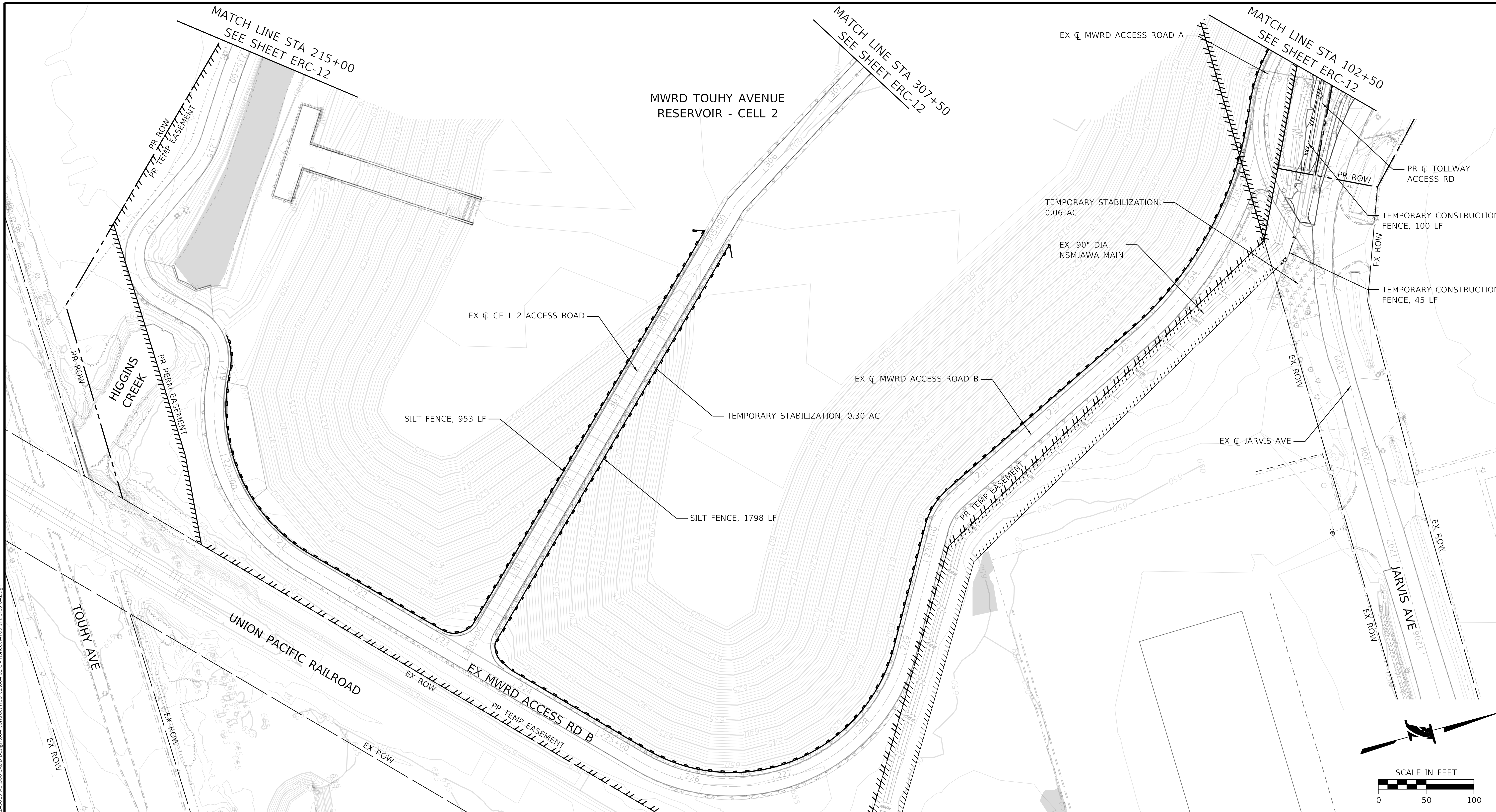
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

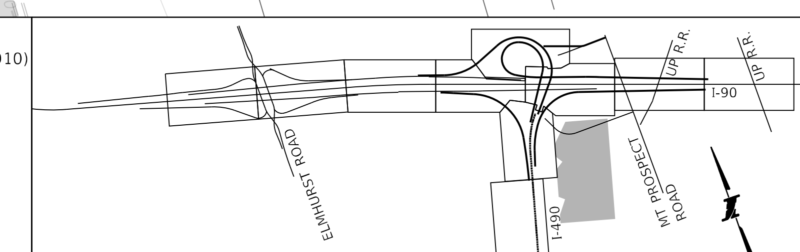
EROSION CONTROL PLAN
MWRD ACCESS ROAD

SHEET NO. ERC-12
DRAWING NO. 305 OF 840



LEGEND

Symbol	Description	Symbol	Description	Symbol	Description
CIP	CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)		EXISTING DITCH FLOW		TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
	TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)		PROPOSED DITCH / SWALE FLOW		ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
	SILT FENCE (JS280050)	RIP	RECTANGULAR INLET PROTECTION (JS280180)		STABILIZED CONSTRUCTION ENTRANCE (JS280070)
SSF	SUPER SILT FENCE (JS280100)	FIP,B	FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)		STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
XXX	TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)		EXISTING WETLANDS/WOUS		TEMPORARY PIPE SLOPE DRAIN (JS280110)
			TEMPORARY RIPRAP (JS280140)		
		FB	FLOTATION BOOM (JS280080)		



KEY MAP

MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020
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THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

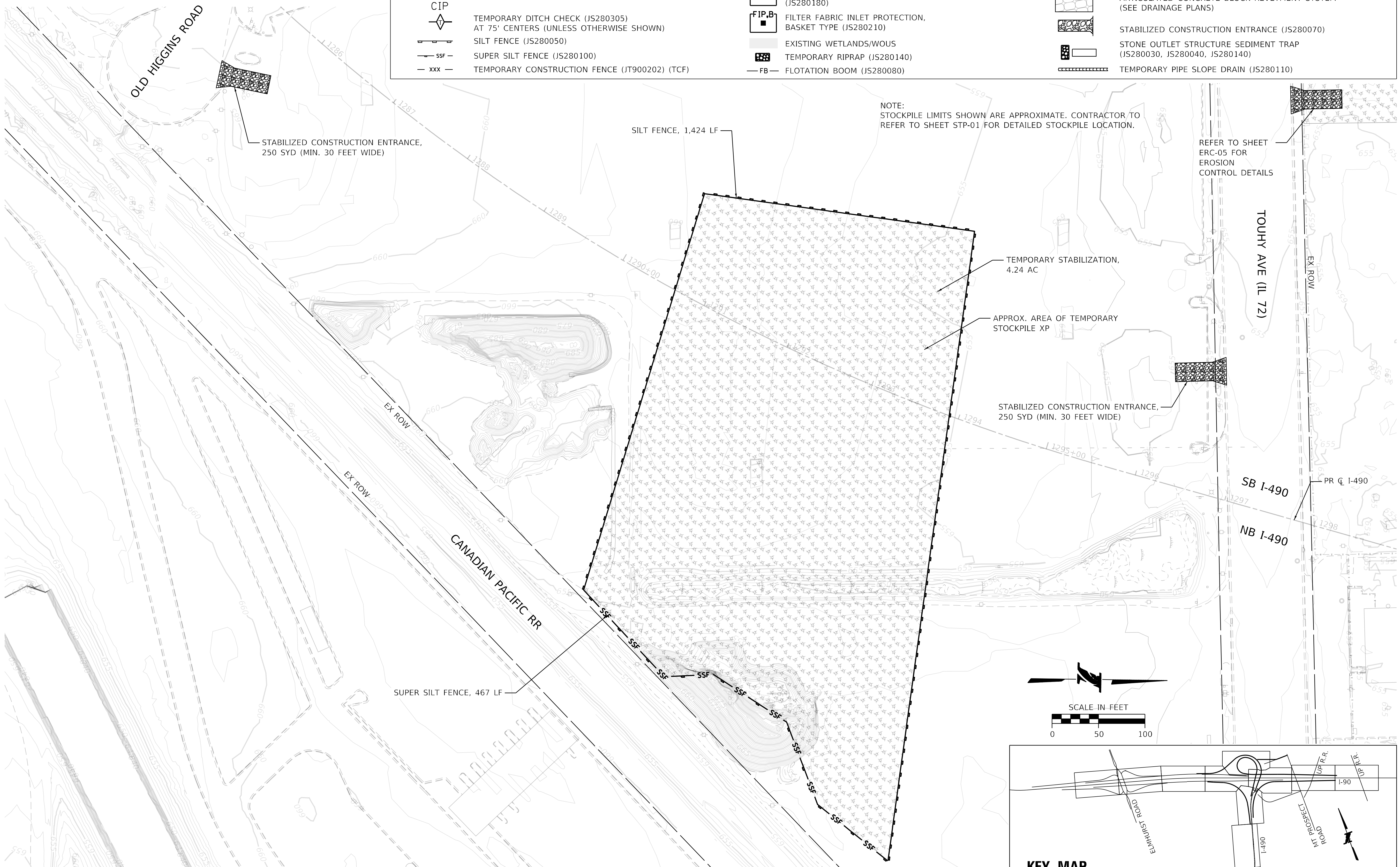
EROSION CONTROL PLAN
MWRD ACCESS ROAD

SHEET NO. ERC-13
DRAWING NO. 306 OF 840

LEGEND

Legend item	Description
CIP	CULVERT INLET PROTECTION TO BE PAID FOR AS: TEMPORARY RIPRAP (JS280140)
	TEMPORARY DITCH CHECK (JS280305) AT 75' CENTERS (UNLESS OTHERWISE SHOWN)
	SILT FENCE (JS280050)
SSF	SUPER SILT FENCE (JS280100)
XXX	TEMPORARY CONSTRUCTION FENCE (JT900202) (TCF)
	EXISTING DITCH FLOW
	PROPOSED DITCH / SWALE FLOW
RIP	RECTANGULAR INLET PROTECTION (JS280180)
FIP,B	FILTER FABRIC INLET PROTECTION, BASKET TYPE (JS280210)
	EXISTING WETLANDS/WOUS
	TEMPORARY RIPRAP (JS280140)
FB	FLOTATION BOOM (JS280080)
	TEMPORARY STABILIZATION TO BE PAID FOR AS: EROSION CONTROL BLANKET, BIODEGRADABLE NETTING, (JI251010) SEEDING, TALL FESCUE MIX (SPECIAL), (JT250454)
	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (SEE DRAINAGE PLANS)
	STABILIZED CONSTRUCTION ENTRANCE (JS280070)
	STONE OUTLET STRUCTURE SEDIMENT TRAP (JS280030, JS280040, JS280140)
	TEMPORARY PIPE SLOPE DRAIN (JS280110)

NOTE:
STOCKPILE LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR TO REFER TO SHEET STP-01 FOR DETAILED STOCKPILE LOCATION.



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MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020
	CHECKED BY: HJM	DATE: 1/16/2020

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

REVISIONS		
NO.	DATE	DESCRIPTION

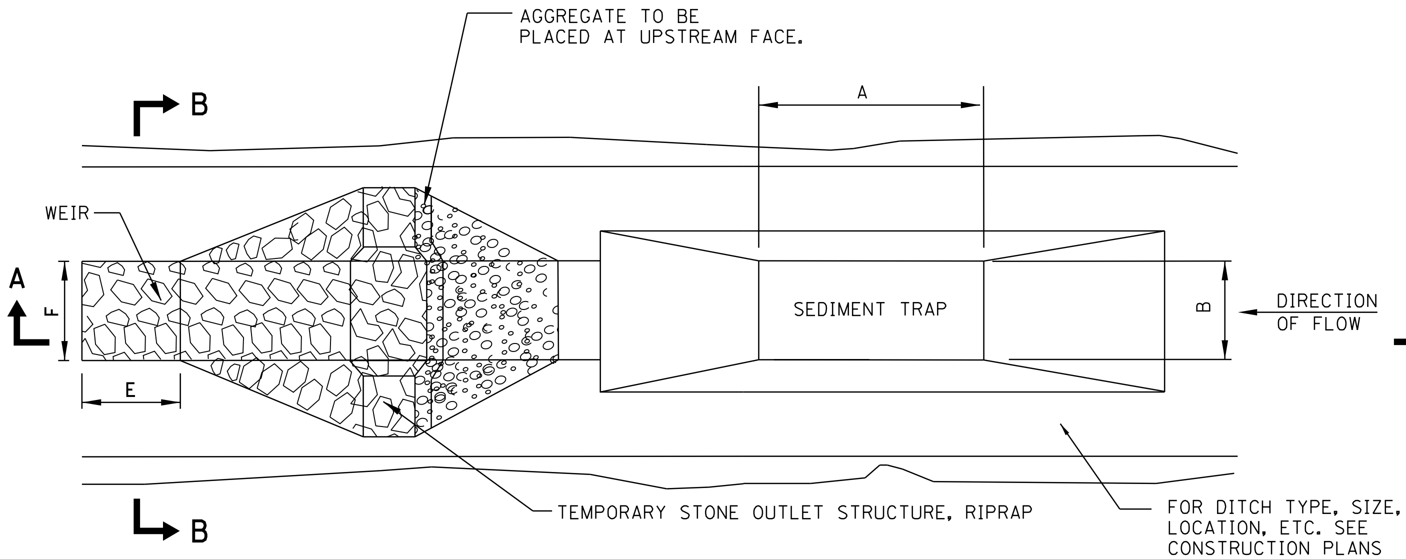
CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
TEMPORARY STOCKPILE XP

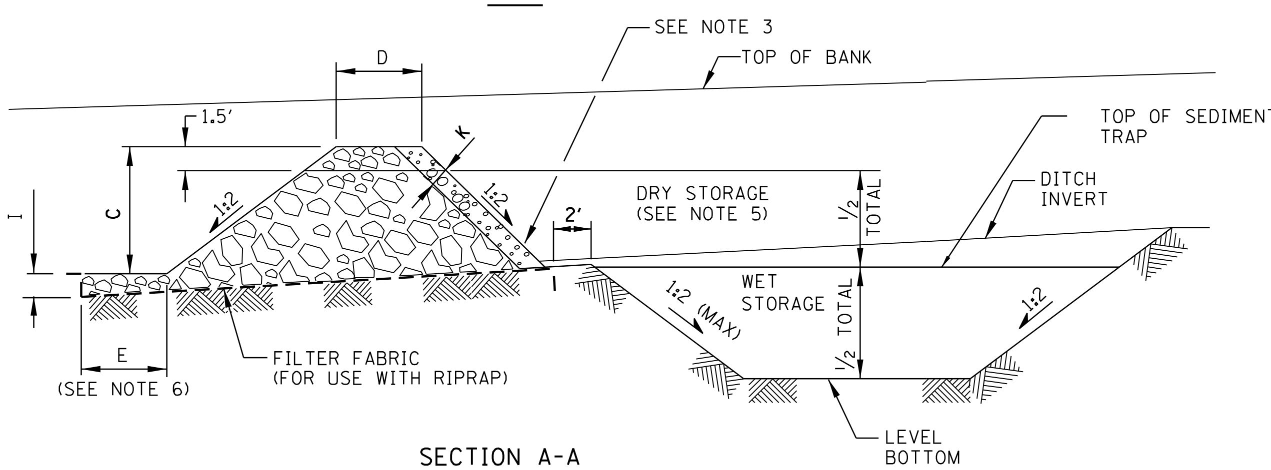
SHEET NO. ERC-14

DRAWING NO. 307 OF 840

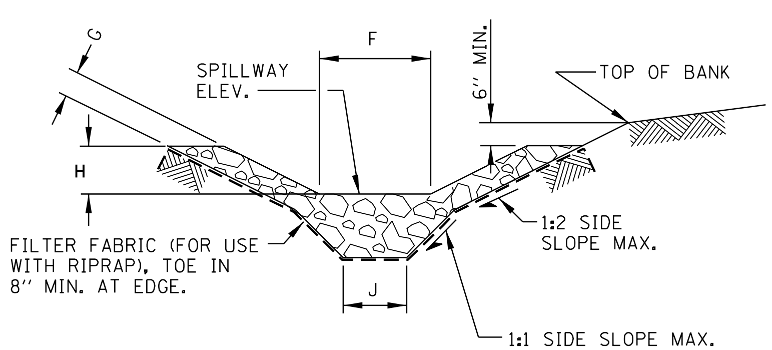
PLOT SCALE: 100.0000 ' / in. PAGE SIZE: ANSI B



PLAN



SECTION A-A



SECTION B-B

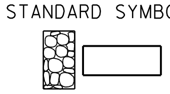
NOTES:

1. STONE OUTLET STRUCTURES TO BE USED IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES.
2. THE STONE OUTLET STRUCTURES SHALL BE REPLACED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED OUT WHEN WET STORAGE PORTION OF TRAP IS 50% FULL.
3. A LAYER OF AGGREGATE SHALL BE PLACED AGAINST THE UPSTREAM FACE OF THE TEMPORARY STONE OUTLET STRUCTURE.
4. THE DETENTION STORAGE SHALL BE COMPOSED OF EQUAL VOLUMES OF "WET" AND "DRY" STORAGE AREAS. HALF THE DETENTION STORAGE SHALL BE BELOW THE PERMEABLE FILL.
5. THE MINIMUM LENGTH TO WIDTH RATIO OF SEDIMENT TRAP SHALL BE 2:1.
6. THE SPILLWAY WEIR SHALL BE DETERMINED BY THE DRAINAGE RUNOFF FROM THE CONTRIBUTING AREA.
7. REFERENCE DESIGN CRITERIA:
   ILLINOIS URBAN MANUAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL
8. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

PROPOSED BASIN D5-E SEDIMENT TRAP

DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	5.00
SEDIMENT TRAP: STORAGE CAPACITY	V (CU. YD.)	1,340
WET DETENTION STORAGE	½V (CU. YD.)	670
DRY DETENTION STORAGE	½V (CU. YD.)	670
SEDIMENT TRAP LENGTH	A (FEET)	100
SEDIMENT TRAP WIDTH	B (FEET)	20
STONE OUTLET STRUCTURE HEIGHT	C (FEET)	8
STONE OUTLET STRUCTURE TOP WIDTH	D (FEET)	5
WEIR LENGTH	E (FEET)	15.0
WEIR TOP WIDTH	F (FEET)	20
WEIR SIDE SLOPE THICKNESS	G (FEET)	2
WEIR SIDE SLOPE HEIGHT	H (FEET)	1.5
WEIR DEPTH	I (FEET)	2
WEIR BASE WIDTH	J (FEET)	10
RIPRAP	GRADATION	RR-4
AGGREGATE	GRADATION	CA-3
STONE OUTLET AGGREGATE THICKNESS	K (FEET)	1

STANDARD SYMBOL



BASIN D5-E - STONE OUTLET STRUCTURE SEDIMENT TRAP

MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020
	CHECKED BY: HJM	DATE: 1/16/2020

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

REVISIONS

NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
SEDIMENT TRAP DETAIL

SHEET NO. ERC-15
DRAWING NO. 308 OF 840

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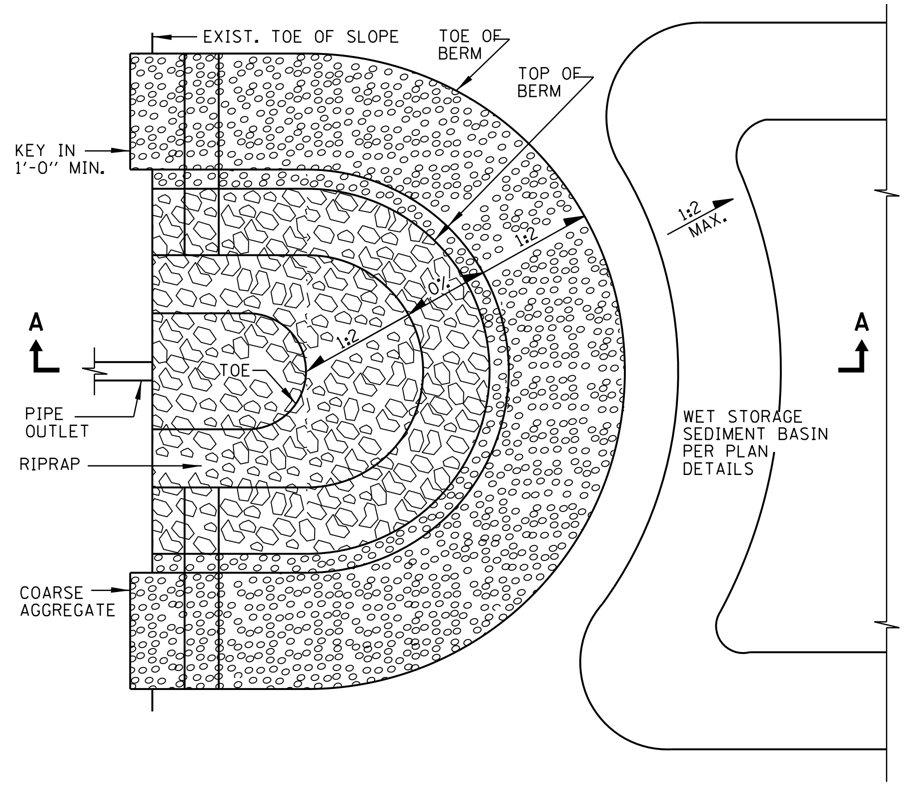
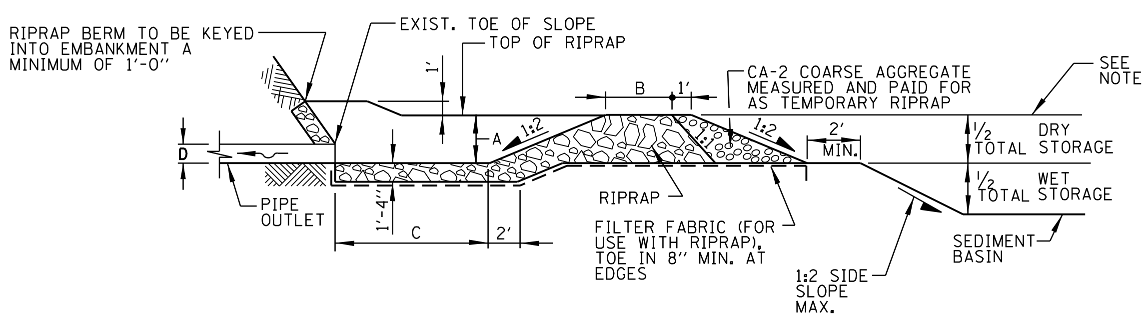


PLAN VIEW



SECTION A-A

NOTES:

1. WHEN SEDIMENT BASIN AGGREGATE BERM IS USED FOR OUTLET CONTROL, THE DETENTION STORAGE SHALL BE COMPOSED OF EQUAL VOLUMES OF "WET" AND "DRY" STORAGE AREAS. HALF THE DETENTION STORAGE SHALL BE BELOW THE PERMEABLE FILL. DRAINAGE AREA INCLUDES BOTH ON-SITE AND OFF-SITE TRIBUTARY AREAS.
2. TO MINIMIZE EXCAVATION, THE BOTTOM OF THE WET STORAGE BASIN MAY BE DESIGNED AT THE PIPE OUTLET INVERT ELEVATION. PROVIDE COMPACTED CLAY DAM BELOW AGGREGATE BERM.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED. THE AGGREGATE BERM SHALL BE REPLACED IF WASHED OUT, DAMAGED BY CONSTRUCTION OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED OUT WHEN THE WET STORAGE POOL PORTION OF BASIN IS 50% FULL.
4. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	21
SEDIMENT BASIN: STORAGE CAPACITY	V (CU. YD.)	3,356
WET DETENTION STORAGE	½V (CU. YD.)	1,678
DRY DETENTION STORAGE	½V (CU. YD.)	1,678
AGGREGATE BERM HEIGHT	A (FEET)	2
AGGREGATE BERM TOP WIDTH	B (FEET)	4
OUTLET WEIR LENGTH	C (FEET)	10
OUTLET PIPE DIAMETER	D (FEET)	N/A
RIPRAP	GRADATION	RR-4
COURSE AGGREGATE	GRADATION	CA-2

MWRD BASIN - AGGREGATE BERM FOR TEMPORARY SEDIMENT BASIN

MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020
	CHECKED BY: HJM	DATE: 1/16/2020

DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
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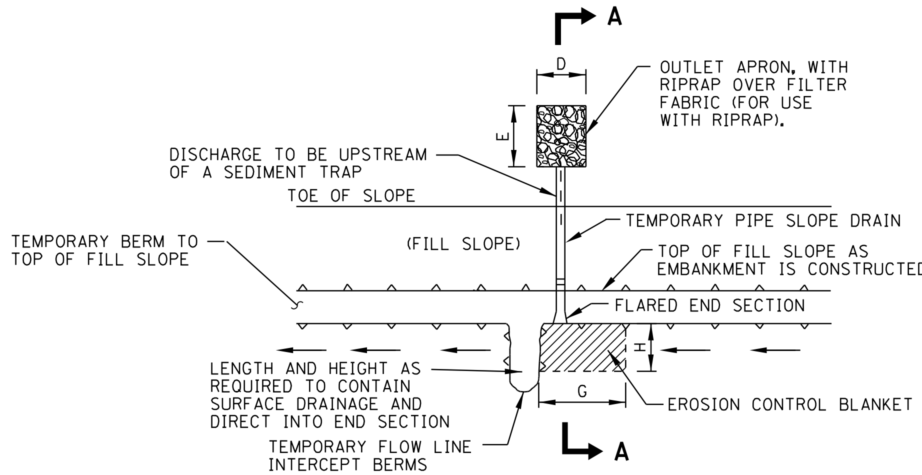
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS		
NO.	DATE	DESCRIPTION

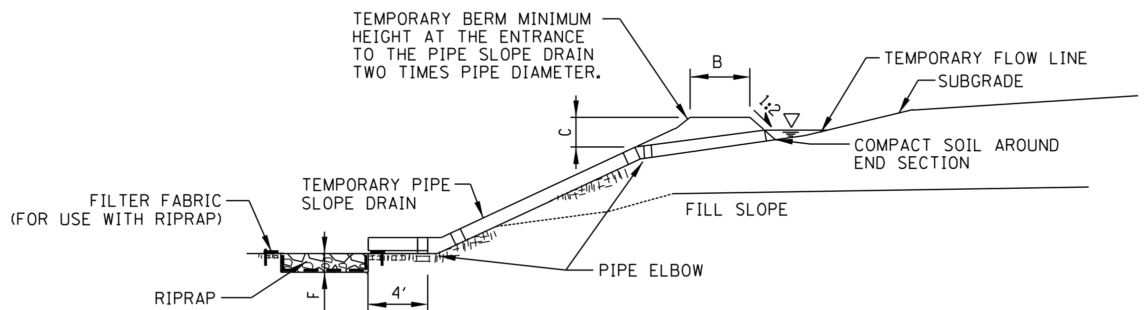
CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
SEDIMENT DETAIL

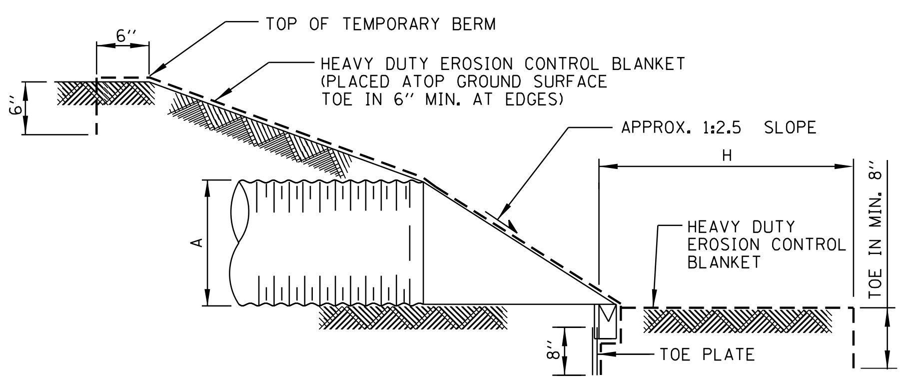
SHEET NO. ERC-16
DRAWING NO. 309 OF 840



PLAN



SECTION A-A
FOR FILL SLOPES



TYPICAL CROSS SECTION
FLARED END SECTION

TEMPORARY PIPE SLOPE DRAIN

NOTES:

1. ALL TEMPORARY PIPE SLOPE DRAINS TO DISCHARGE INTO THE BACK OF SEDIMENT TRAPS, INTO SEDIMENT BASINS OR DITCHES DISCHARGING INTO TRAPS OR BASINS.
2. HEAVY DUTY EROSION COTROL BLANKET SHALL BE PLACED AROUND THE FLARED END SECTION.
3. HEAVY DUTY EROSION CONTROL BLANKET TO BE INSTALLED AT THE FLARED END SECTION EXTENDING ALONG THE TEMPORARY FLOW LINE.
4. TEMPORARY PIPE SLOPE DRAINS WILL BE SIZED AND SPACED ALONG THE FILL TO ADEQUATELY HANDLE THE RUNOFF FROM THE CONTRIBUTING AREA. A MINIMUM TWO TEMPORARY PIPE SLOPE DRAINS WILL BE PLACED IN EVERY SAG.
5. THE PIPE SHALL BE INSTALLED WITH WATER-TIGHT CONNECTING BANDS AND SHALL BE SECURELY ANCHORED BY HOLD DOWN STAKES AND CABLES.
6. STAPLES SHALL BE USED TO ANCHOR HEAVY DUTY EROSION CONTROL BLANKET IN CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.
7. THE OUTLET RIPRAP APRON PROTECTION SHALL BE BASED ON THE PIPE DIAMETER AND DISCHARGE VELOCITY OF STORMWATER FLOWS.
8. REFERENCE DESIGN CRITERIA:
   ILLINOIS URBAN MANUAL AND IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL.
9. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

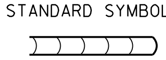
TEMPORARY PIPE SLOPE DRAIN - 18 INCH

DESIGN ELEMENTS		VALUES
DRAINAGE AREA/SLOPE DRAIN	X (ACRES)	0.60
PIPE SLOPE DRAIN DIAMETER	A (INCHES)	18
PIPE SLOPE DRAIN SPACING	S (FEET)	N/A
BERM AT INLET TOP WIDTH	B (FEET)	4
BERM AT INLET HEIGHT	C (FEET)	3
OUTLET APRON WIDTH	D (FEET)	15.5
OUTLET APRON LENGTH	E (FEET)	14
OUTLET APRON DEPTH	F (FEET)	1.5
OUTLET APRON RIPRAP	GRADATION	RR-3
EROSION CONTROL BLANKET LENGTH	G (FEET)	10
EROSION CONTROL BLANKET WIDTH	H (FEET)	6

TEMPORARY PIPE SLOPE DRAIN - 12 INCH

DESIGN ELEMENTS		VALUES
DRAINAGE AREA/SLOPE DRAIN	X (ACRES)	0.30
PIPE SLOPE DRAIN DIAMETER	A (INCHES)	12
PIPE SLOPE DRAIN SPACING	S (FEET)	N/A
BERM AT INLET TOP WIDTH	B (FEET)	4
BERM AT INLET HEIGHT	C (FEET)	3
OUTLET APRON WIDTH	D (FEET)	11
OUTLET APRON LENGTH	E (FEET)	10
OUTLET APRON DEPTH	F (FEET)	1.5
OUTLET APRON RIPRAP	GRADATION	RR-3
EROSION CONTROL BLANKET LENGTH	G (FEET)	8
EROSION CONTROL BLANKET WIDTH	H (FEET)	5

STANDARD SYMBOL



TEMPORARY PIPE SLOPE DRAIN DETAIL

MILESTONE:	DESIGNED BY: MTM	DATE: 1/16/2020		
ADVERTISEMENT	DRAWN BY: DPW	DATE: 1/16/2020		
	CHECKED BY: HJM	DATE: 1/16/2020		

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2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS

NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

EROSION CONTROL PLAN
TEMPORARY PIPE SLOPE DRAIN

SHEET NO. ERC-17
DRAWING NO. 310 OF 840

PORTABLE RESTROOM TO BE MAINTAINED MINIMUM ONCE WEEKLY

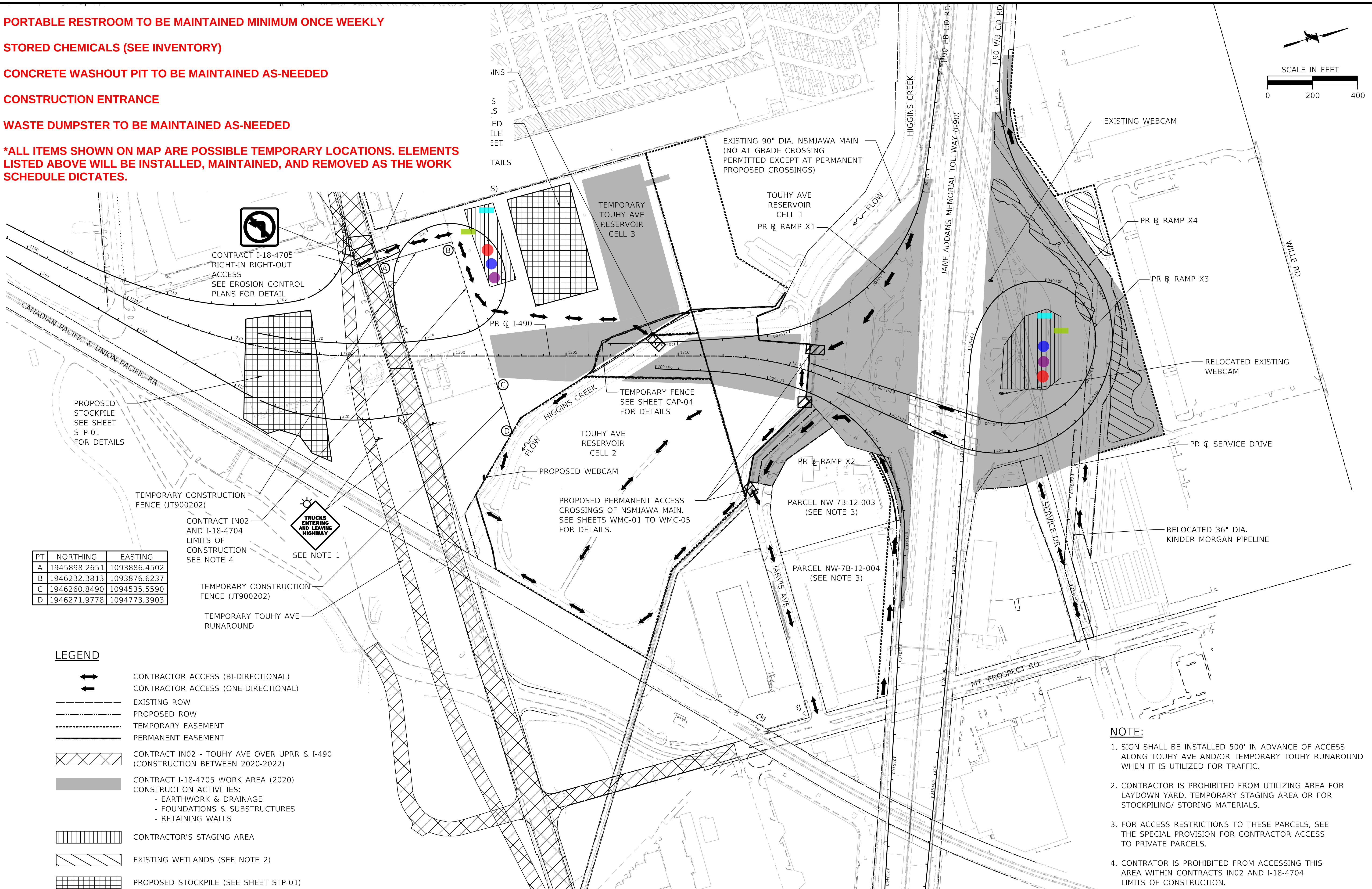
STORED CHEMICALS (SEE INVENTORY)

CONCRETE WASHOUT PIT TO BE MAINTAINED AS-NEEDED

CONSTRUCTION ENTRANCE

WASTE DUMPSTER TO BE MAINTAINED AS-NEEDED

***ALL ITEMS SHOWN ON MAP ARE POSSIBLE TEMPORARY LOCATIONS. ELEMENTS LISTED ABOVE WILL BE INSTALLED, MAINTAINED, AND REMOVED AS THE WORK SCHEDULE DICTATES.**



PT	NORTHING	EASTING
A	1945898.2651	1093886.4502
B	1946232.3813	1093876.6237
C	1946260.8490	1094535.5590
D	1946271.9778	1094773.3903

LEGEND

- CONTRACTOR ACCESS (BI-DIRECTIONAL)
- CONTRACTOR ACCESS (ONE-DIRECTIONAL)
- EXISTING ROW
- PROPOSED ROW
- TEMPORARY EASEMENT
- PERMANENT EASEMENT
- CONTRACT IN02 - TOUHY AVE OVER UPRR & I-490 (CONSTRUCTION BETWEEN 2020-2022)
- CONTRACT I-18-4705 WORK AREA (2020) CONSTRUCTION ACTIVITIES:
  - EARTHWORK & DRAINAGE
  - FOUNDATIONS & SUBSTRUCTURES
  - RETAINING WALLS
- CONTRACTOR'S STAGING AREA
- EXISTING WETLANDS (SEE NOTE 2)
- PROPOSED STOCKPILE (SEE SHEET STP-01)

NOTE:

1. SIGN SHALL BE INSTALLED 500' IN ADVANCE OF ACCESS ALONG TOUHY AVE AND/OR TEMPORARY TOUHY RUNAROUND WHEN IT IS UTILIZED FOR TRAFFIC.
2. CONTRACTOR IS PROHIBITED FROM UTILIZING AREA FOR LAYDOWN YARD, TEMPORARY STAGING AREA OR FOR STOCKPILING/ STORING MATERIALS.
3. FOR ACCESS RESTRICTIONS TO THESE PARCELS, SEE THE SPECIAL PROVISION FOR CONTRACTOR ACCESS TO PRIVATE PARCELS.
4. CONTRATOR IS PROHIBITED FROM ACCESSING THIS AREA WITHIN CONTRACTS IN02 AND I-18-4704 LIMITS OF CONSTRUCTION.

MILESTONE:	DESIGNED BY: BRH	DATE: 1/16/2020
	DRAWN BY: AJL	DATE: 1/16/2020
ADVERTISEMENT	CHECKED BY: KA	DATE: 1/16/2020

EXP U.S. Services Inc. | Chicago, IL

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

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT NO. I-18-4705

CONTRACTOR ACCESS PLAN
2020 CONSTRUCTION

SHEET NO. CAP-01

DRAWING NO. 10 OF 840

GENERAL NOTES - EROSION AND SEDIMENT CONTROLS

1. THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN AN NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.

2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN, NOI, SWPPP, AND INSPECTION LOG BEING IMPLEMENTED BY THE CONTRACTOR SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES.

4. TO THE MAXIMUM EXTENT POSSIBLE EROSION SHALL BE MINIMIZED AT THE SOURCE. ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE SHALL BE DIVERTED AROUND DISTURBED AREAS OR SHALL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF, SHALL BE MINIMIZED AND DOES NOT MIX WITH THE OFF-SITE RUNOFF.

5. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT SHALL PASS THROUGH ONE OR MORE MEASURES THAT SHALL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.

6. ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, PERIMETER SILT FENCE, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA SHALL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH EARTHWORK ON A PROJECT THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A PROPOSED EARTHWORK AND STABILIZATION SCHEDULE FOR REVIEW AND APPROVAL.

7. A MAXIMUM OF 10 ACRES IS ALLOWED TO BE IN SOME STAGE OF GRADING AT A SINGLE TIME. ADDITIONAL AREAS (UP TO 10 ACRES) MAY BE CLEARED BUT SHALL NOT BE STRIPPED OF VEGETATION UNTIL THE GRADED AREAS HAVE BEEN PROTECTED FROM EROSION THROUGH INSTALLATION OF EITHER TEMPORARY OR PERMANENT MEASURES. WHENEVER POSSIBLE, THE GRADING SHALL BE COMPLETED TO THE DESIGN GRADE AND THE PERMANENT VEGETATION PLAN IMPLEMENTED PRIOR TO STARTING GRADING ACTIVITIES ON THE NEXT SITE.

   A. WHEN BALANCING EARTHWORK (BORROW FROM A CUT USED AS FILL AT A LOCATION DISTANT FROM THE CUT) THE CHIEF ENGINEER MAY ALLOW MORE THAN 10 ACRES OF CONSTRUCTION WORK AREAS AND STORAGE AREAS.

   B. WHERE NEW INTERCHANGES ARE BEING CONSTRUCTED THE ALLOWABLE AREA BEING GRADED MAY BE LARGER THAN 10 ACRES WHEN THE CONTRACT DRAWINGS AND SWPPP DEFINE SUCH INCREASES.

   C. VARIATIONS TO THE ABOVE MAY BE CONSIDERED BY THE CHIEF ENGINEER UNDER ALL THE FOLLOWING CONDITIONS:

      - IF THE CONTRACTOR FALLS BEHIND SCHEDULE THROUGH NO FAULT OF HIS OWN.
      - THE CONTRACTOR SHALL PRESENT A SCHEDULE DEMONSTRATING THE NEED FOR SUCH VARIATION IN ORDER TO COMPLETE THE WORK ON TIME.
      - THE CONTRACTOR SHALL COMPLY WITH ALL OTHER CONTRACT AND PERMIT REQUIREMENTS.

8. STABILIZATION OF DISTURBED AREAS SHALL, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND SHALL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL 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.

9. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 15 FEET VERTICALLY OR THE FINISHED SLOPE EQUALS 50 FEET, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.

10. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS EROSION AND SEDIMENT CONTROL MANAGER. THIS PERSON SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON SHALL POSSESS THE NECESSARY TRAINING AND CERTIFICATION ON EROSION AND SEDIMENT CONTROL MEASURES FOR ACCEPTANCE BY THE ILLINOIS TOLLWAY. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES SHALL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER ANY RAINFALL EVENT GREATER THAN 0.5 INCHES, OR EQUIVALENT SNOWFALL (I.E. + 5").

11. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SILT FENCES, FENCES, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS SHALL BE CLEANED WHEN THEY ARE 50% FILLED. SILT FENCE AND STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. THESE SPOILS SHALL BE REMOVED TO AN APPROVED SITE.

12. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND LIVE STREAMS OR WETLANDS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE. SALVAGED TOPSOIL SHALL BE STABILIZED WITH STRAW MULCH IMMEDIATELY AFTER SHAPING OF THE PILE IN ACCORDANCE WITH THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS. SILT FENCE SHALL BE PROVIDED AT THE PERIMETER OF THE STOCKPILE.

13. MATERIALS EXCAVATED FOR THE CONSTRUCTION OR CLEAN OUT OF SEDIMENT TRAPS SHALL NOT BE STOCKPILED IN THE VICINITY OF THE TRAP. IT SHALL BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.

14. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF PROVIDING THE CONTROLS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE ILLINOIS TOLLWAY SHALL ASSUME THE COSTS OF THE CONTROLS.

15. SEDIMENT LADEN DEWATERING DISCHARGE SHALL BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.

16. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSIDERED TEMPORARY. THESE MEASURES SHALL BE REMOVED BY THE CONTRACTOR AS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. DISTURBED AREAS SHALL BE RESTORED UPON REMOVAL.

17. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDED THE FOLLOWING CONDITIONS ARE MET:

   A. ALL AREAS BEING STABILIZED ARE 1:3 (V:H) SLOPES OR FLATTER.

   B. THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH IS THE RESPONSIBILITY OF THE CONTRACTOR.

   C. ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.

18. THE CONTRACTOR SHALL PREPARE A SKETCH SHOWING DIMENSIONS FROM TWO ADJACENT OBJECTS TO ALL DRAINAGE STRUCTURES THAT HAVE BEEN PROTECTED. THIS IS TO LOCATE THE STRUCTURE IN CASE OF HEAVY RAINFALL AND THE STRUCTURE IS BLOCKED OR FLOODED. THE ENGINEER SHALL BE PROVIDED WITH A COPY OF THE SKETCH.

19. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN ACCORDANCE WITH THE STANDARD DRAWINGS AND SPECIAL PROVISION (S.P.) 111, STORM WATER POLLUTION PREVENTION PLAN INCLUDING CONTROLS AND SPILL PREVENTION-MATERIAL MANAGEMENT PRACTICES. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL SIGN THE CONTRACTOR'S CERTIFICATION STATEMENT. LIST THE MATERIALS OR SUBSTANCES EXPECTED TO BE PRESENT ON-SITE IN THE INVENTORY FOR POLLUTION PREVENTION PLAN AND SHALL NAME TWO ADDITIONAL INDIVIDUALS TO ASSIST IN SPILL PREVENTION AND CLEAN UP AT THE PRECONSTRUCTION CONFERENCE. SEE S.P. 111.

20. AT THE TIME OF THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS AS REQUIRED IN SPECIAL PROVISION 111. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE STORM SEWER OR DITCH SYSTEMS. WASHOUT WATER SHALL BE TAKEN TO AN APPROVED DISCHARGE LOCATION.

21. IF AN ALTERNATIVE SIZE DITCH CHECK IS PROPOSED BY THE CONTRACTOR FOR USE ON THE PROJECT, A CONTRACT DITCH CHECK SPACING SHALL BE RECALCULATED BY THE CONTRACTOR IN ACCORDANCE WITH THE ILLINOIS TOLLWAY EROSION AND SEDIMENT CONTROL, LANDSCAPE DESIGN CRITERIA MANUAL. ANY RESULTING QUANTITY CHANGES SHALL BE APPROVED BY THE ENGINEER PRIOR TO START OF WORK.

22. ALL RUNOFF, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED OUTSIDE THE CLEAR ZONE. THE CONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL MEASURES AND PERFORM A BARRIER WARRANT ANALYSIS IF NECESSARY TO ENSURE ROADSIDE OBSTACLES ARE NOT CREATED.

23. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

Paul Kovacs
APPROVED..... CHIEF ENGINEERING OFFICER DATE 2-7-2012

Illinois Tollway

DATE	REVISIONS
3-31-2014	REVISED GENERAL NOTES.
3-11-2015	REVISED NOTES.
3-31-2016	REMOVED TEMPORARY DITCH CHECKS
3-01-2018	REVISED BUFFER WIDTHS AND DETAIL.
3-01-2019	REVISED FABRIC INLET PROTECTION AND STABILIZED CONSTRUCTION ENTRANCE.

TEMPORARY EROSION AND SEDIMENT CONTROLS

STANDARD K1-08

STANDARD SYMBOLS

CLEARING & GRADING LIMITS
(LIMITS OF CONSTRUCTION)


CULVERT INLET
PROTECTION-FENCE

CULVERT INLET
PROTECTION-STONE

DEWATERING BASINS

DIVERSION DIKE

DRAINAGE DIVIDE

EXISTING DRAINAGE PATH

FILTER FABRIC
INLET PROTECTION, COVER TYPE

FILTER FABRIC
INLET PROTECTION, BASKET TYPE

FLOTATION BOOM

INITIAL CONSTRUCTION ITEM

PROPOSED DRAINAGE PATH

RECTANGULAR INLET
PROTECTION


SEDIMENT BASIN
AGGREGATE BERM


SEDIMENT BASIN

SILT FENCE


STABILIZED
CONSTRUCTION
ENTRANCE


STONE OUTLET STRUCTURE
SEDIMENT TRAP


STREAM DIVERSION

SUPER SILT FENCE

TEMPORARY DITCH CHECK


TEMPORARY PIPE SLOPE DRAIN


TEMPORARY RIPRAP


TEMPORARY ROCK CHECK DAM


TEMPORARY STREAM CROSSING

TEMPORARY SWALE

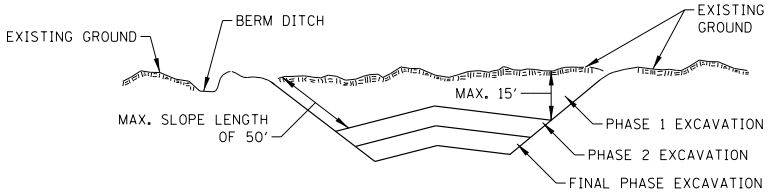
TREE PROTECTION

Paul Kovacs
APPROVED. . . . . DATE 2-7-2012
CHIEF ENGINEERING OFFICER

Illinois Tollway

TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-08



NOTES:

1. ALL CUT SLOPES SHALL BE EXCAVATED AND STABILIZED (PLACE TOPSOIL, PREPARE SEEDBED, APPLY SEED, PROTECT SLOPE WITH MULCH OR EROSION BLANKET) AS THE WORK PROGRESSES.

2. CONSTRUCTION SEQUENCE:

   A) EXCAVATE AND STABILIZE BERM, SIDE AND OUTLET DITCHES, PROVIDE SEDIMENT TRAPS FOR DITCHES.

   B) PERFORM PHASE 1 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING.

   C) PERFORM PHASE 2 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING. OVER SEED PHASE 1 SLOPES, IF REQUIRED.

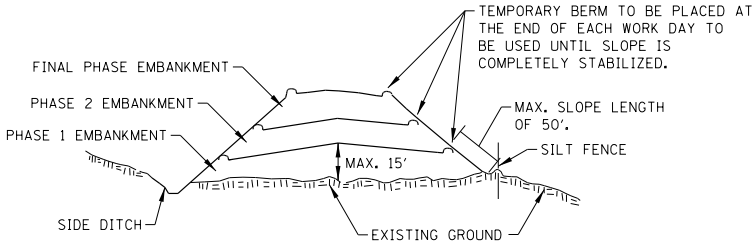
   D) PERFORM FINAL PHASE EXCAVATION, DRESS, SEED AND MULCH SLOPES WITH PERMANENT SEEDING. STABILIZE SURFACE DRAIN DITCHES. OVER SEED PHASE 1 & 2 SLOPES, IF REQUIRED, AS DETERMINED BY THE ENGINEER.

3. IF PERMANENT SEEDING CANNOT BE PLACED DUE TO CONTRACT REQUIREMENTS REGARDING PLANTING SEASONS, THE CUT SLOPE IS TO HAVE TOPSOIL PLACED AND SEEDING PREPARED PRIOR TO USING TEMPORARY STABILIZATION WITH STRAW MULCH OR TEMPORARY SEEDING WITH EROSION BLANKET.

4. THE CONTRACTOR HAS THE OPTION OF DELAYING TOPSOIL SEEDING BEYOND THE 15 FOOT LIMITATION. IF THIS OPTION IS CHOSEN, THE CUT SLOPE MUST BE "TEMPORARY STABILIZED" AT NO COST TO THE ILLINOIS TOLLWAY.

5. ONCE THE EXCAVATION WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF SLOPE STABILIZATION MEASURES. ANY INTERRUPTIONS IN THE OPERATION OF 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE.

EXCAVATION PHASING PLAN - CUT SECTION



NOTES:

1. THE EMBANKMENT WILL BE MADE IN STAGES NOT TO EXCEED 15' IN HEIGHT OR 50' IN SLOPE LENGTH. THE EMBANKMENT SLOPES WILL BE STABILIZED USING TEMPORARY MEASURES BEFORE BEGINNING NEXT STAGE.

2. AT THE END OF EACH WORK DAY TEMPORARY BERMS (EARTH) AND TEMPORARY PIPE SLOPE DRAINS WILL BE CONSTRUCTED ALONG THE TOP EDGE(S) OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF.

3. CONSTRUCTION SEQUENCE:

   A) EXCAVATE AND STABILIZE SIDE DITCH AND/OR INSTALL PROPOSED PERIMETER CONTROLS AT THE TOE OF SLOPE.

   B) PLACE PHASE 1 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.

   C) PLACE PHASE 2 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.

   D) PLACE FINAL PHASE EMBANKMENT AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE.

4. ONCE THE PLACEMENT OF FILL WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF PERMANENT VEGETATIVE PLAN. ANY INTERRUPTIONS IN THE OPERATION OF 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE.

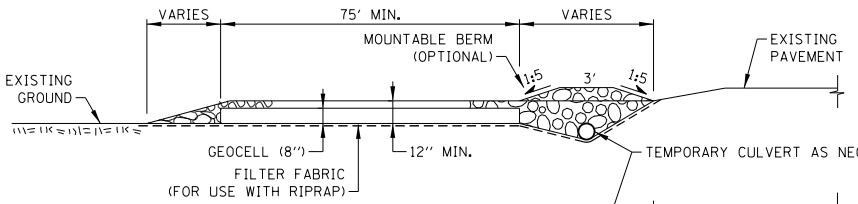
EMBANKMENT PHASING PLAN - FILL SECTION

Paul Kovacs
APPROVED..... DATE 2-7-2012
CHIEF ENGINEERING OFFICER

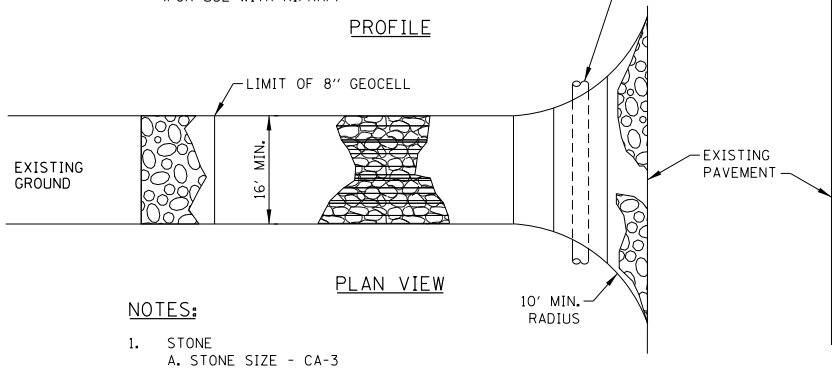
Illinois Tollway

TEMPORARY EROSION AND SEDIMENT CONTROLS

STANDARD K1-08



PROFILE



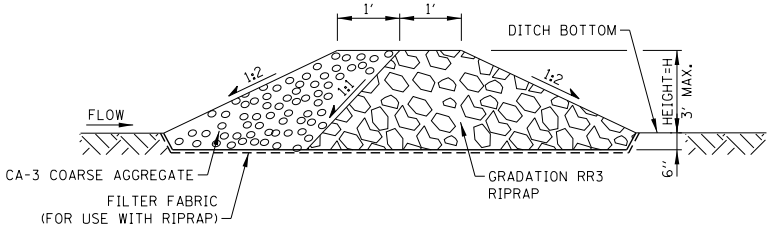
PLAN VIEW

NOTES:

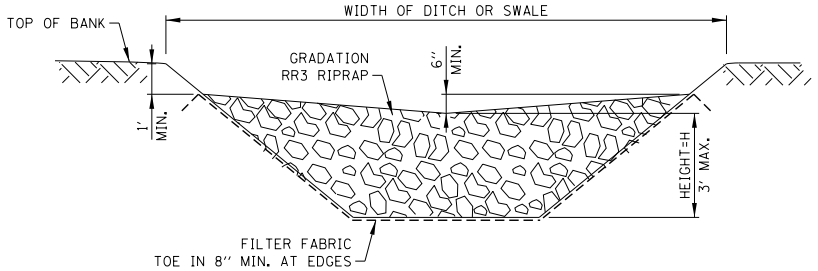
1. STONE
   A. STONE SIZE - CA-3
   B. LENGTH - AS REQUIRED, BUT NOT LESS THAN 75'.
   C. THICKNESS - NOT LESS THAN 4" ABOVE TOP OF GEOCELL.
2. WIDTH - 16' MINIMUM FOR ONE WAY TRAFFIC; 24' MINIMUM FOR TWO-WAY TRAFFIC; BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
3. GEOCELL NOT LESS THAN 8" IN DEPTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 1:5 SLOPES WILL BE PERMITTED.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER HEAVY USE AND EACH RAINFALL EVENT.
7. TO BE USED TO REDUCE OR ELIMINATE TRACKING OF SEDIMENT ONTO PUBLIC STREETS. PLACE AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS. DISTURBED AREAS TO BE RESTORED UPON REMOVAL.

STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL



PROFILE



CROSS SECTION
CENTERLINE LOOKING DOWNSTREAM

NOTES:

1. FOR LOCATIONS AND HEIGHTS OF ROCK CHECK DAMS REFER TO CONSTRUCTION DRAWINGS.
2. TEMPORARY ROCK CHECK DAMS SHALL BE REPLACED WHEN THEY CEASE TO FUNCTION AS INTENDED DUE TO WASHOUT OR CONSTRUCTION TRAFFIC DAMAGE.
3. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF DAM HEIGHT. THIS PRACTICE IS NOT A SUBSTITUTE FOR MAJOR PERIMETER TRAPPING SUCH AS A TEMPORARY SEDIMENT TRAP OR BASIN.
4. SPACING BETWEEN DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS TOP OF RIPRAP AT THE CENTER OF THE DOWNSTREAM DAM.
5. WHEN A TEMPORARY ROCK CHECK DAM IS IN THE CLEAR ZONE, IT MUST BE MADE TRAVERSABLE TO AN ERRANT VEHICLE. THE MAXIMUM UNSHIELDED TRANSVERSE SLOPE ALLOWED TO FACE TRAFFIC SHALL BE 1:10 (V:H) AND THE MAXIMUM TRANSVERSE FACING AWAY FROM TRAFFIC SHALL BE 1:4 (V:H). AN UNSHIELDED TEMPORARY ROCK CHECK DAM SHALL HAVE AN ADDITIONAL LAYER OF CA-3 COURSE AGGREGATE (6" MIN.) PLACED ON THE DOWNSTREAM SIDE OF THE ROCK CHECK DAM. THE FILTER FABRIC SHALL BE PLACED ALONG THE ENTIRE BASE OF THE TEMPORARY ROCK CHECK DAM.

TEMPORARY ROCK CHECK DAM

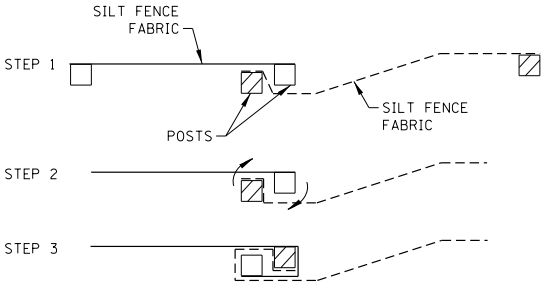
STANDARD SYMBOL

Paul Kovacs
APPROVED. . . . . DATE 2-7-2012
CHIEF ENGINEERING OFFICER

Illinois Tollway

TEMPORARY EROSION
AND SEDIMENT CONTROLS

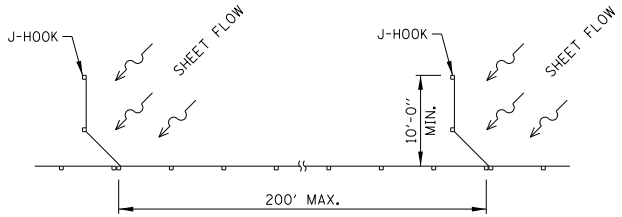
STANDARD K1-08



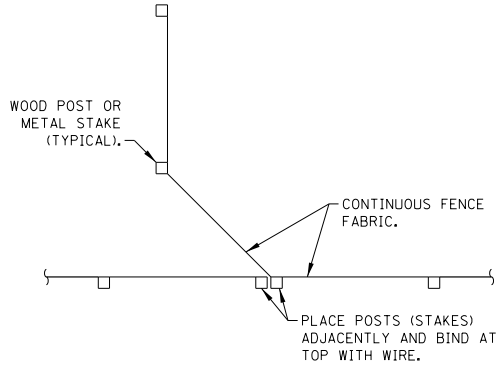
NOTES:

1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS A MINIMUM OF 24" INTO THE GROUND.

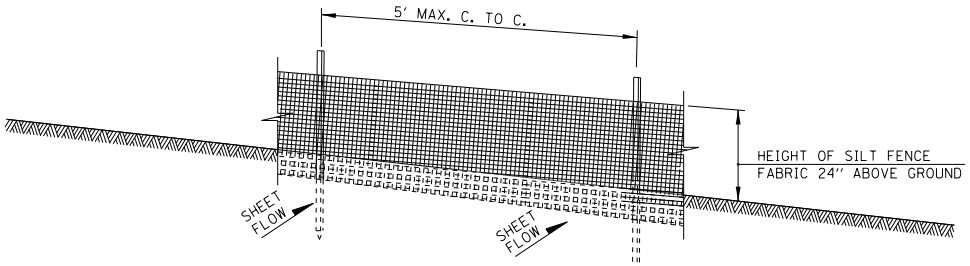
ATTACHING TWO SILT FENCES



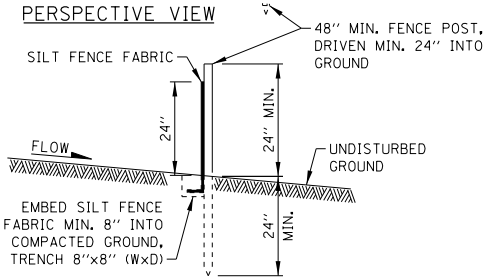
SILT FILTER J-HOOK PLACEMENT



J-HOOK



PERSPECTIVE VIEW

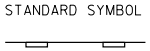


SECTION

NOTES:

1. SILT FENCE FABRIC TO BE FASTENED SECURELY TO FENCE POSTS.
2. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER THEY SHALL BE SECURELY FASTENED PER THE DETAIL ATTACHING TWO SILT FENCES.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SILT BUILD UP AGAINST FENCE SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT.
4. FENCE POSTS: 2"x2" (NOMINAL) HARDWOOD OR SCHEDULE 40 METAL PIPE OR 1.33 LB/FT MIN. STANDARD T OR U SECTION STEEL POSTS.
5. THIS DEVICE IS TO CONTROL SHEET FLOW ONLY. DO NOT USE FOR CONCENTRATED FLOWS, DRAINAGE CHANNELS, ABOVE OR BELOW DRAINAGE PIPES.

SILT FENCE (SF)
STANDARD SYMBOL



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TEMPORARY EROSION AND SEDIMENT CONTROLS

STANDARD K1-08

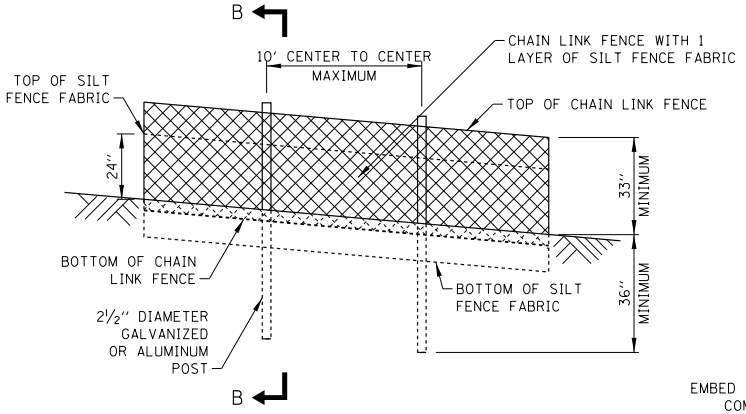
NOTES:

1. FENCING SHALL BE 36" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH ILLINOIS TOLLWAY STANDARD DRAWING D1, RIGHT-OF-WAY FENCE, TYPE 1. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 36" FABRIC AND 6' LENGTH POSTS.
2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED. PULL POSTS, CORNER POSTS, HORIZONTAL BRACING AND TIE RODS ARE NOT REQUIRED.
3. SILT FENCE FABRIC SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.
4. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED 2' HORIZONTALLY.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SILT BUILD-UP AGAINST FENCE SHALL BE REMOVED WHEN SILT REACHES 50% OF FENCE HEIGHT.
6. SUPER SILT FENCE IS TO BE USED TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND CONTROL SEDIMENT RUNOFF FROM CONSTRUCTION SITES WHEN ADDITIONAL REINFORCEMENT IS REQUIRED DUE TO SLOPE OF SITE OR VOLUME OF STORM WATER RUNOFF.

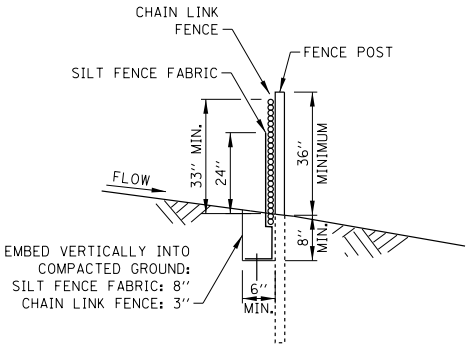
SUPER SILT FENCE (SSF)

STANDARD SYMBOL

SSF



ELEVATION



SECTION B-B

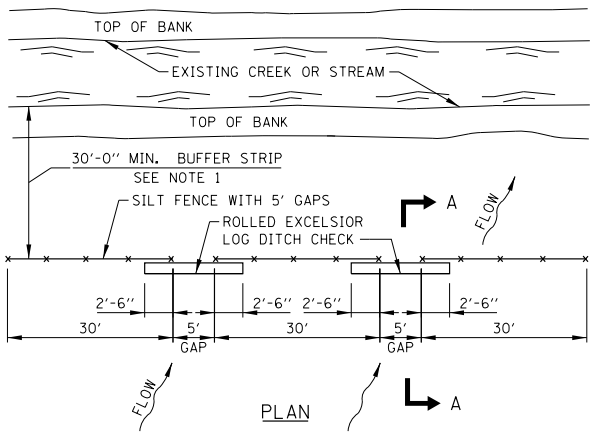
NOTES:

1. A MINIMUM 50' WIDE VEGETATED BUFFER STRIP SHALL BE PRESERVED AND/OR RE-ESTABLISHED WHERE POSSIBLE ALONG EXISTING CHANNELS.

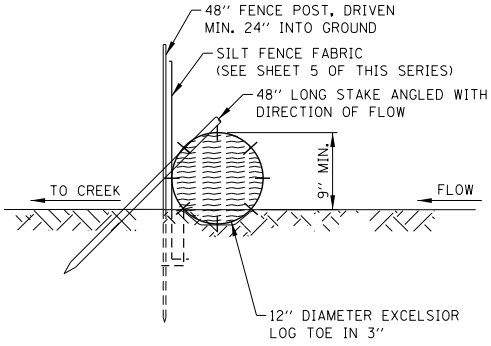
   a. FOR ANY WATERS OF THE U.S. DETERMINED TO BE A HIGH-QUALITY AQUATIC RESOURCE, THE BUFFER MUST BE A MINIMUM OF 100'.

   b. FOR ANY WATERS OF THE U.S. THAT DO NOT QUALIFY AS WETLAND (FOR EXAMPLE LAKES, RIVERS, PONDS, ETC.), THE BUFFER MUST BE A MINIMUM OF 50' FROM THE ORDINARY HIGH WATER MARK (OHWM).

   c. FOR ANY JURISDICTIONAL WETLAND, THE BUFFER MUST BE A MINIMUM OF 50'.
2. THE 5' GAPS IN THE SILT FENCE AND THE 12" DIAMETER TEMPORARY DITCH CHECKS ARE TO ALLOW FLOODWATER FLOW INTO THE CREEK FROM THE SITE WITHOUT DAMAGE TO THE SILT FENCE.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT. WHEN THE ROLLED EXCELSIOR LOG IS REDUCED TO 50% OF ROLL HEIGHT IT SHALL BE REPLACED.



PLAN



SECTION A-A

CREEK BUFFER STRIP AND SILT FENCE

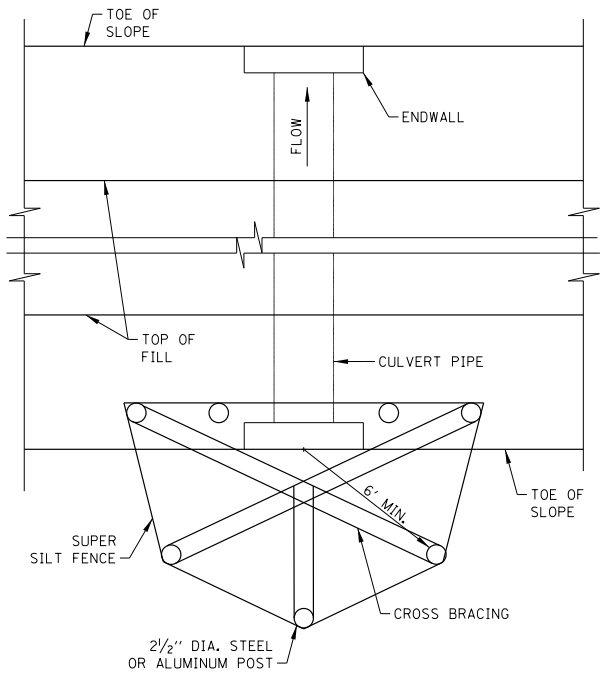
APPROVED Paul Kovacs CHIEF ENGINEERING OFFICER DATE 2-7-2012

SHEET 6 OF 9

Illinois Tollway

TEMPORARY EROSION AND SEDIMENT CONTROLS

STANDARD K1-08



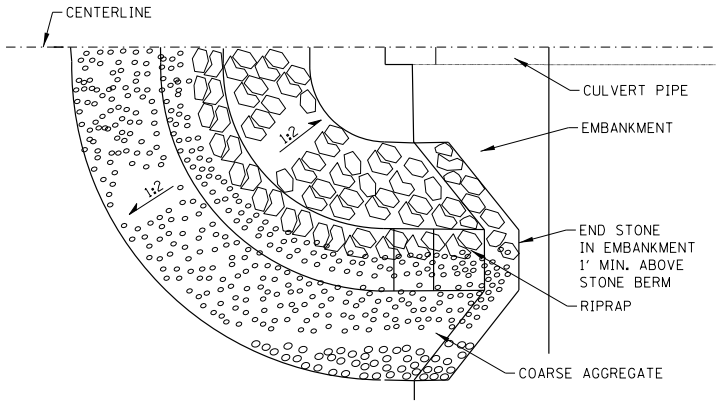
PLAN VIEW

NOTES:

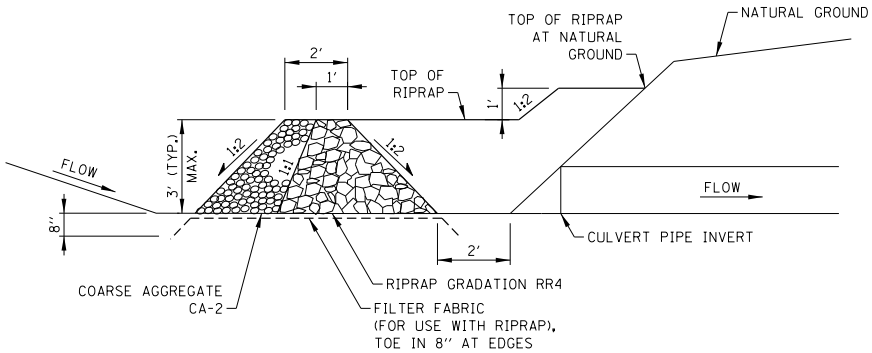
1. CONSTRUCT SUPER SILT FENCE PER SHEET 6 IN THIS SERIES, EXCEPT THE MAXIMUM POST SPACING SHALL BE 3 FEET AND THE TOPS OF POSTS SHALL BE CROSSED BRACED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF THE FENCE HEIGHT.
3. THE CULVERT INLET PROTECTION AND SEDIMENT SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.
4. THE CULVERT INLET PROTECTION - FENCE TO BE MEASURED AND PAID FOR AS SUPER SILT FENCE.

CULVERT INLET PROTECTION - FENCE

STANDARD SYMBOL



HALF PLAN VIEW



CENTERLINE CROSS SECTION

NOTES:

1. MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 50% OF THE STONE HEIGHT.
2. THE CULVERT INLET PROTECTION AND SEDIMENT SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.
3. THE CULVERT INLET PROTECTION - STONE TO BE MEASURED AND PAID FOR AS TEMPORARY RIPRAP.

CULVERT INLET PROTECTION - STONE

STANDARD SYMBOL

CIP

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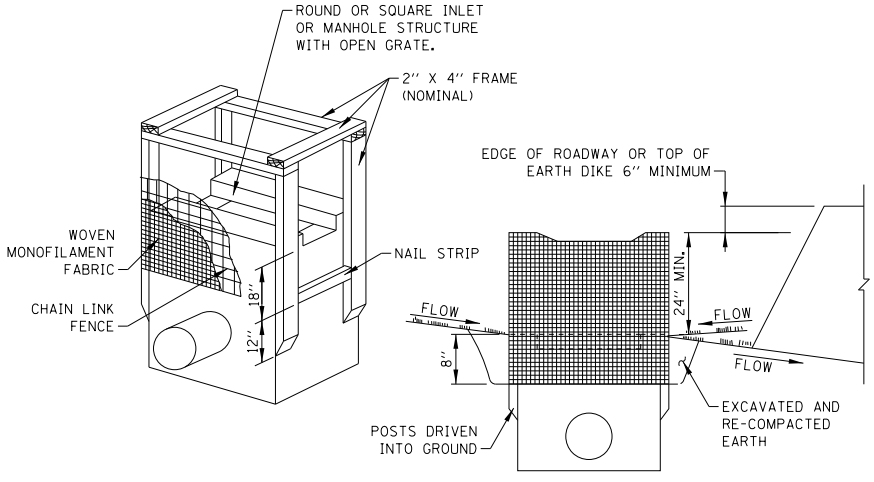
APPROVED. . . . . DATE 2-7-2012
CHIEF ENGINEERING OFFICER

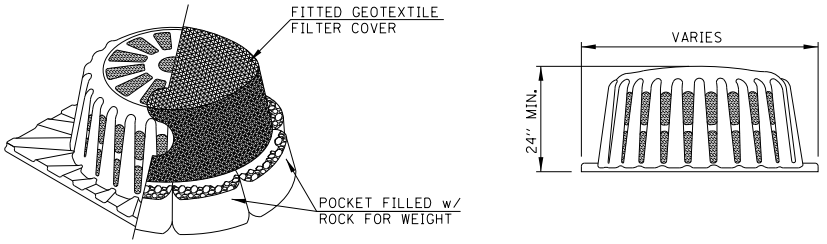
Illinois Tollway

TEMPORARY EROSION AND SEDIMENT CONTROLS

STANDARD K1-08



WOOD FRAME



POLYETHYLENE FRAME

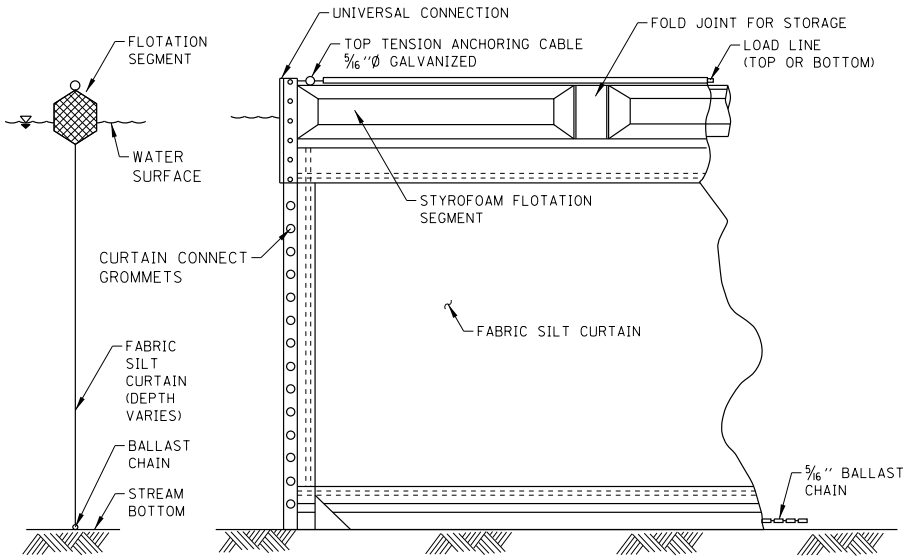
NOTES:

1. WOODEN FRAME IS TO BE CONSTRUCTED OF 2''x4'' CONSTRUCTION GRADE LUMBER. AT THE CONTRACTOR'S OPTION, THE WOOD FRAME CAN BE SUBSTITUTED USING 2 1/2'' GALVANIZED OR ALUMINUM POSTS INSTALLED AS SPECIFIED FOR SUPER SILT FENCE.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT REMOVED WHEN IT REACHES 50% OF FENCE HEIGHT.
3. TO BE USED TO PROTECT EXISTING AND NEW INLETS, CATCH BASINS AND MANHOLES WITH OPEN LIDS IN NON-PAVED AREAS.

RECTANGULAR INLET PROTECTION

STANDARD SYMBOL

RIP



SECTION ELEVATION

NOTES:

1. FLOTATION BOOM FOR USE IN MOVING WATER SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE. BOOMS ARE NOT TO BE INSTALLED ACROSS FLOWING BODY OF WATER.
2. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES.
3. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8'' DIAMETER POLYPROPYLENE ROPE.
4. DESIGN OF BOOM AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BOTTOM OF BOOM SHALL REACH BOTTOM OF WATERWAY USING ONE VERTICAL SECTION AS REQUIRED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE BOOM AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.
6. CONSTRUCTION DEBRIS/MATERIALS SHALL BE REMOVED IMMEDIATELY TO PREVENT DAMAGE TO THE CURTAIN AND ENTRY INTO THE WATERWAY.
7. FLOTATION BOOMS TO BE USED TO CONTROL TURBIDITY WHEN WORKING IN WATERWAYS.

FLOTATION BOOM

STANDARD SYMBOL

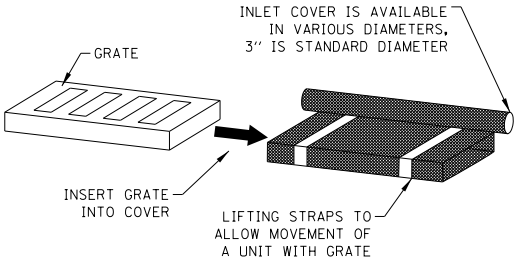
—FB——FB—

Paul Kovacs
APPROVED. . . . . DATE 2-7-2012
CHIEF ENGINEERING OFFICER

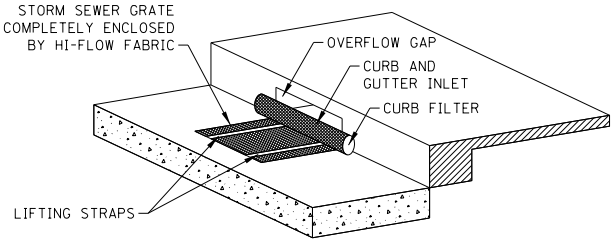
Illinois Tollway

TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-08



GRATE AND COVER DETAIL

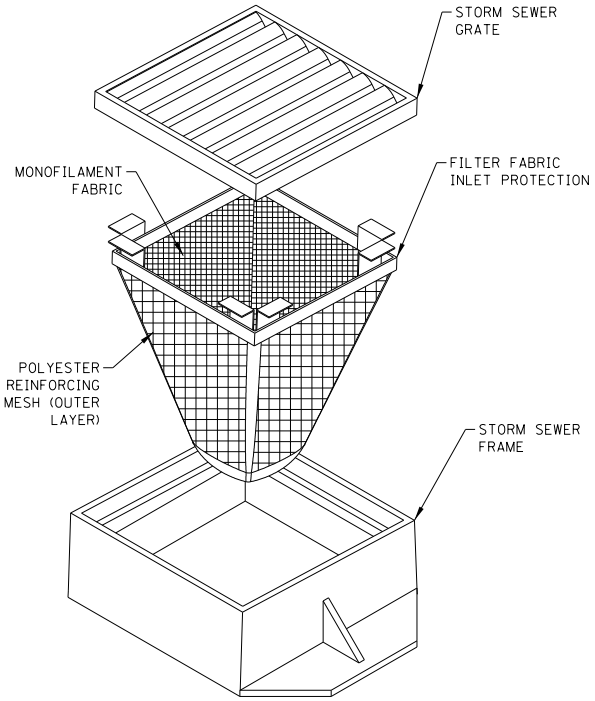


NOTES:

1. COVER TYPE INLET PROTECTION SHALL CONSIST OF FABRIC SLEEVE AND, IF NECESSARY, CURB FILTER.
2. DEVICE SHALL BE EQUIPPED WITH AN OVERFLOW GAP SO DRAINAGE TO INLET IS NOT COMPLETELY BLOCKED IF DEVICE IS FULL OF SILT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED. REMOVE SILT FROM FABRIC INSERT WHEN SEDIMENT ACCUMULATES, THE FILTER BECOMES CLOGGED, AND/OR PERFORMANCE IS COMPROMISED. WHEN THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT THE THE INLET PROTECTION MEASURE, THE DEPOSITED SEDIMENT SHALL BE REMOVED BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL THE SAME BUSINESS DAY IS NOT FEASIBLE.
4. STORM SEWER GRATE SHALL BE COMPLETELY ENCLOSED BY FABRIC.
5. GRATE AND FILTER ARE TO BE SET SECURELY BACK IN FRAME.

FILTER FABRIC INLET PROTECTION - COVER TYPE

FIPC ■ STANDARD SYMBOL

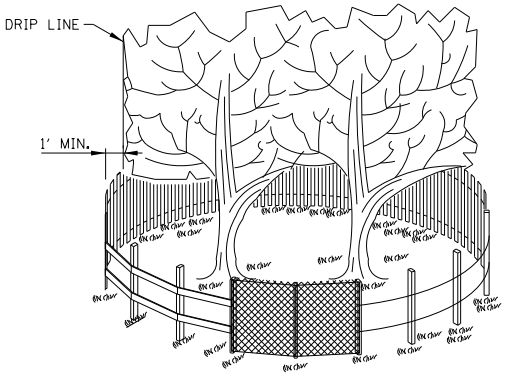


NOTES:

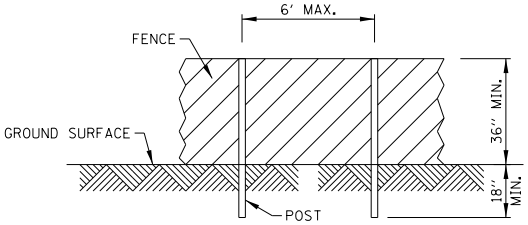
1. MONOFILAMENT FABRIC INLET PROTECTION SHALL CONSIST OF INLET BASKET, FRAME AND FABRIC INSERT.
2. DEVICE SHALL BE EQUIPPED WITH AN OVERFLOW FEATURE SO DRAINAGE TO INLET IS NOT COMPLETELY BLOCKED IF DEVICE IS FULL OF SILT.
3. INLET BASKET IS AVAILABLE TO FIT ROUND, RECTANGULAR, BEEHIVE OR CURB INLET CASTINGS.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED. REMOVE SILT FROM FABRIC INSERT WHEN 50% OF CAPACITY IS REACHED. REMOVE SILT FROM INTERIOR AND EXTERIOR OF INLET COVER WHEN 50% OF COVER HEIGHT IS REACHED. WHEN THERE IS EVIDENCE OF SEDIMENT ACCUMULATION ADJACENT THE THE INLET PROTECTION MEASURE, THE DEPOSITED SEDIMENT SHALL BE REMOVED BY THE END OF THE SAME BUSINESS DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING BUSINESS DAY IF REMOVAL THE SAME BUSINESS DAY IS NOT FEASIBLE.

FILTER FABRIC INLET PROTECTION - BASKET TYPE

FIPB ■ STANDARD SYMBOL



SIDE VIEW



POST AND FENCE DETAIL

NOTES:

1. THE FENCE SHALL BE LOCATED 1 FOOT MINIMUM OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
2. THE FENCE SHALL BE HIGH VISIBILITY PLASTIC OR WOOD LATH SNOW FENCE TO CLEARLY DELINEATE THE PROTECTION AREA.
3. USED TO PROTECT TREES FROM DISTURBANCE AND FROM EQUIPMENT TRAVELING OVER THE ROOT ZONE.

TREE PROTECTION
STANDARD SYMBOL

TP

Paul Kovacs
APPROVED. . . . . DATE 2-7-2012
CHIEF ENGINEERING OFFICER

Illinois Tollway

TEMPORARY EROSION
AND SEDIMENT CONTROLS

STANDARD K1-08

ISTHA Contract # 4705
JUDLAU Job # C201

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

Vincent Picardi - 630-387-6073

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 S. 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 4705 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