Storm Water Pollution Prevention Plan

Gateway OLV1 Logistics North
East of 191 Norfolk Southern Way
Marshall County, Mississippi

prepared for:

The Conlan Company
1850 Parkway Place SE Suite 1200

prepared by:

Pickering Firm, Inc.
6363 Poplar Avenue, Suite 300
Memphis, TN 38119
901-726-0810

AI: 73311

Rec'd via email: 03/20/2025

MAJOR MODIFICATION FORM
FOR LARGE CONSTRUCTION GENERAL PERMIT

Coverage No. MSR10 7 6 4 8 County Marshall

INSTRUCTIONS

Coverage recipients shall notify the Mississippi Department of Environmental Quality (MDEQ) at least 30 days in advance of the following activities (check all that apply). This form should be submitted with a modified Storm Water Pollution Prevention Plan (SWPPP), updated USGS topographic map, Corps of Engineers Section 404 documentation and wastewater collection and treatment information, as appropriate.

☑ **SWPPP details have been developed and are being submitted for MDEQ review for subsequent phases of an existing project.**

☑ **"Footprint" identified in the original LCNOI is proposed to be changed.**

This form must be signed by the current coverage recipient under Mississippi's Large Construction General Permit. A different developer of new phases of existing subdivisions must apply for separate permit coverage through the submittal of a new complete LCNOI package. Coverage recipients are authorized to discharge storm water associated with proposed expansions of existing subdivisions or subsequent phases, under the conditions of the General Permit, only upon receipt of written notification of approval by MDEQ. All other modifications, such as changes of erosion and sediment controls used, must be in accordance with ACT6, S-1 (6) and S-2 (7) of the General Permit.

ALL INFORMATION MUST BE COMPLETED (indicate "N/A" where not applicable)

CURRENT COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT NAME: Mark Kunst PHONE # (770) 423-8000

COMPANY NAME: The Conlan Company

STREET OR P.O. BOX: 1850 Parkway Place SE Suite 1200

CITY: Marietta STATE: GA ZIP: 30318 E-MAIL:

IS THE APPLICANT DIFFERENT FROM THE CURRENT COVERAGE HOLDER? ☐ YES ☑ NO

PREPARER/CONSULTANT INFORMATION
(Complete if prepared by someone other than applicant.)

PREPARER/CONSULTANT CONTACT NAME: Greg Carrico PHONE # (901) 726-0810

COMPANY NAME: Pickering Firm, Inc.

STREET OR P.O. BOX: 6363 Poplar Avenue, Suite 300

CITY: Memphis STATE: TN ZIP: 38119 E-MAIL: gcarrico@pickeringfirm.com

MAY MDEQ CORRESPOND DIRECTLY WITH THE PREPARER / CONSULTANT REGARDING THE PROPOSED PROJECT / MODIFICATION? ☑ YES ☐ NO

SITE INFORMATION

PROJECT NAME: Gateway Global Logistics North East of Norfolk Southern Way

CITY: Mount Pleasant TRIBAL LAND ID (N/A If not applicable): N/A

Latitude / Longitude Collected at Project Entrance or Construction Start Point:

LATITUDE: 34 degrees 57 minutes 55 seconds LONGITUDE: 89 degrees 36 minutes 14 seconds

LAT & LONG COLLECTION METHOD (e.g., GPS, Map Interpolation): Map Interpolation

REDUCTION IN ACREAGE: N/A ADDITIONAL ACREAGE TO BE DISTURBED: 24

TOTAL PROJECT ACREAGE: 117 ESTIMATED CONSTRUCTION END DATE: 6/1/2026

O.C

IS THE PROJECT REROUTING, FILLING OR CROSSING A WATER CONVEYANCE OF ANY KIND? (If yes, contact the U.S. Army Corps of Engineers' Regulatory Branch for permitting requirements.) ☐ YES ☑ NO

IF THE PROJECT IS A SUBDIVISION OR A COMMERCIAL DEVELOPMENT, HOW WILL SANITARY SEWAGE BE DISPOSED? Check one of the following and attach the pertinent documents.

☑ Existing Municipal or Commercial System. Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications cannot be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.

☐ Collection and Treatment System will be Constructed. Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: _____.)

☐ Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots. Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.

☐ Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots. A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.

INDICATE ANY LOCAL STORM WATER ORDINANCE WITH WHICH THE PROJECT MUST COMPLY:

N/A

NEAREST NAMED RECEIVING STREAM: Wolf River

IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER BODIES? (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site: https://www.mdeq.ms.gov/water/surface-water/tmdl/ ☐ **YES** ☑ **NO**

HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT? ☑ **YES** ☐ **NO**

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.

Mark Kunst
Signature (must be signed by coverage recipient)

3/11/25
Date

Mark Kunst
Printed Name

Senior Vice President
Title

Please submit this form to: Chief, Environmental Permits Division
Office of Pollution Control
MS Department of Environmental Quality
P.O. Box 2261
Jackson, Mississippi 39225

Electronically: https://www.mdeq.ms.gov/construction-stormwater/

Table of Contents

Appendices

1. Introduction

Alston Construction, Inc. proposes to construct a warehouse facility and associated parking, access roads and stormwater management features. The site is located East of 191 Norfolk Southern Way in Marshall County, Mississippi. Construction of this project will disturb 117 acres.

The original permit, MSR107648, covered 93 acres. The limits of disturbance for this project will be 117-acres. See the Limits of Disturbance Exhibit in Appendix A.

This SWPPP provides information on erosion and sediment controls that shall be implemented to protect water quality. This SWPPP has been prepared in accordance with the Erosion and Sediment Control Plans which are attached. This SWPPP and the controls described in this document have been designed to comply with the terms and conditions of Mississippi's Large Construction Storm Water General NPDES Permit. The erosion and sediment controls described in this SWPPP shall be implemented by the permittee or other qualified individual designated by the permittee.

2. Site Information

The site is located within the Hurricane Creek-Wolf River watershed (HUC 080102100302) and the Nonconnah Creek Watershed (HUC12:08012110101). The majority of the site drains to the northeast and discharges into an unnamed tributary of the Wolf River in Tennessee. The remainder of the site drains south to Nonconnah Creek. Nonconnah Creek and the Wolf River are not listed on the Mississippi 2024 §303(d) for siltation. While Nonconnah creek is not on the Mississippi 2024 §303(d) list, it does have TMDLs established. These TMDLs are for Nutrient Pollution, Sediment, and Organic enrichment/low dissolved oxygen. Topography on the site varies from relatively flat (1% to 5% slope) to steep (14%to 33% slope). The soils on the site are mapped by the National Resource Conservation Service as Cascilla silt loam, Falaya silt loam, Grenada silt loam, Gullied land-Cahaba complex, Henry silt loam, and Loring silt loam of various slopes and varying degrees of erosion. These soils have a K rating (whole soil) of 0.32 to 0.55, and therefore have a moderately high susceptibility to erosion.

3. Implementation Sequence

- Prior to any work on the site, a construction entrance/exit shall be installed.
- Prior to any earthwork, all necessary control structures shall be installed and functional, including concrete washouts, curb opening protection, rip rap outlet protection, silt fencing, double silt fencing, rock filter dams, diversion ditches, rock check dams, sediment barriers, and sediment basins.
- During preliminary grading, topsoil shall be stockpiled wherever possible, and silt fencing shall be installed around stockpiles.
- Temporary vegetation shall be installed as needed on disturbed areas.
- Sediment accumulations shall be removed from silt fences, silt screens, diversion berms, and sediment ponds when accumulations exceed the design capacity

- Sediment shall be disposed of at an approved site.
- Once the construction activities have been completed, any remaining areas of bare soil or areas dominated by temporary (annual) vegetation shall be permanently stabilized with perennial vegetation through seeding or sod. Where necessary, topsoil shall be placed prior to seeding.
- Once final stabilization is reached, all temporary erosion and sediment control devices shall be removed.

4. Erosion and Sediment Controls

A. Vegetative Controls

Temporary stabilization measures (primarily seeding and mulching) shall be utilized initially as necessary and then be replaced by permanent stabilization measures as these areas reach final grade. If work is to be temporarily discontinued for 14 or more days, stabilization via seeding with a seasonally appropriate mixture and mulch shall be initiated immediately of the work stoppage. Finally, permanent stabilization shall commence immediately upon completion of the project. Permanent stabilization shall be in the form of seeding with a mixture that includes perennial grasses, installing sod or via structural measures as appropriate. Prior to seeding or sodding, topsoil shall be spread on the site as necessary to facilitate vegetation establishment. General seeding recommendations will be consistent with the Seeding Chart for the State of Mississippi.

B. Structural Controls

- *Construction Entrance/Exit Pad* - A gravel construction entrance/exit shall be installed off of Mount Carmel Road as shown on the plans. The entrance/exit shall be a minimum of 50 feet long, 12 feet wide and 6 inches thick. It shall be constructed of coarse aggregate, typically 2 to 3 inches in diameter. Additional stone shall be added as necessary to maintain proper function of these exits. If the stone does not adequately remove mud from the vehicle wheels, the wheels shall be hosed off before the vehicle enters a public street. The washing shall be done in an area covered with coarse aggregate and the waste water drained to a sediment trap or sediment barrier.

- *Silt Fence* - Silt fencing shall be installed around the site boundary, the top banks of stormwater ponds, and other areas as shown on the plans. Additional fencing shall be installed along contours as necessary to retain sediment and protect receiving waterways. The silt fence shall be securely attached to steel or wooden stakes placed 6 feet apart for non-reinforced fencing and 10 feet apart for wire reinforced fencing. All sediment fences shall be entrenched and backfilled as shown on the plans.

- *Straw Bale Dike with Silt Fence* – Where needed, silt fencing shall be reinforced with straw bales. Straw bales shall be entrenched a minimum of 4 to 6 inches and staked on the upslope side of the silt fence as shown on the plans. Silt fence will be installed as described above and shown on the plans.

- *Rock Check Dams* - Rock check dams shall be installed where necessary as shown on the plans. Rip rap shall be placed on filter fabric. Check dams shall be keyed into the channel banks and extend beyond the abutments a minimum of 18 inches. The center of the check dam shall be at least 6 inches lower than the outer edges. The dam height shall be a maximum of 24 inches measured at the center. The maximum spacing of check dams in a series shall be such that the toe of the upstream dam is at the same elevation as the top of the downstream dam.

- *Diversion Berm* – A diversion berm may be constructed, if necessary, along the downslope side of the diversion swales to be constructed. The berm will be constructed of compacted earthen material and will be a minimum one foot high and 2 feet wide (as measured at the top of the berm).

- *Sediment Basins* – During construction, run-off from the site shall be directed to one of three sediment basins as shown on the plans. The capacity of these ponds far exceeds what is needed to contain the flows from a 2 year, 24 hour storm event as shown in Table 1.

  The outfall structures for the sediment basins will consist of a permanent spillway with a temporary plate for the skimmer device. Rip-rap outlet protection devices will be provided at each outfall for velocity dissipation.

  The treatment capacities of the sediment basins exceed the minimum treatment required (equivalent to 3,600 cubic feet per acre drained). Treatment capacities for the basin are shown in the table below. The size and elevation of drainage orifice are provided in the plans. All drainage will occur from the top of the permanent pool elevation. No drainage will occur from bottom of any of the basins. Please see the accompanying plans for complete details on the design, capacity and function of the sediment ponds. At the completion of construction, shall be converted for use in post construction stormwater management.

Table 1. Treatment Capacity of Sediment Basins

Sediment Basin	Drainage Basin (AC)	Required Sediment Storage (CF)	Provided Sediment Storage (CF)	Dewatering Time (Days)	Dewatering Rate (CF/Day)
W Pond	39.83	143,388	222,870	2.4	91,880
N Pond	23.36	84,096	197,503	2.0	98,107
E Pond	19.89	71,604	152,840	1.9	80,037
Trailer Pond Route	19.88	71,568	251,886	1.98	127,416
S Pond	15.71	56,556	159,165	2	80,037

C. Post Construction Controls

Detention Basins – At the end of building and site construction, the sediment basins will be converted to post construction detention basins which will control the outflow from the 25-year, 24 hour storm event to the pre-developed discharge rates.

The outfall structures for the detention basins will consist of a permanent riser with an emergency spillway to safely convey the 100-year, 24 hour storm event. Rip-rap outlet protection devices will be provided at each outfall for velocity dissipation and shown on the plans and details.

5. Housekeeping Practices

The following good housekeeping practices shall be followed on-site during the construction process:

- The temporary parking and storage areas shall be located as determined by the developer's construction manager. The temporary parking and storage areas shall also be used as the equipment maintenance area, equipment cleaning area, employee break area and location of any needed portable facilities, office trailers or toilet facilities.

- A concrete chute wash area shall be designated by the developer's construction manager. Excess concrete and wash water shall be disposed of in a manner that prevents contact between these materials and storm water that is discharged from the site.

- Non-storm water discharges, including water from water line flushing, pavement wash water, uncontaminated groundwater from excavation dewatering, shall be directed to the onsite drainage collection system and the sediment pond.

- All construction waste and trash (paper, plastic, wood, scrap metals, rubber, etc.) shall be collected and stored in containers with lids or covers that can be placed over the container prior to rainfall. This waste shall be regularly collected and disposed of according to state and local solid waste management regulations.

- Any materials stored on site shall be in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure within a designated storage area. Original labels and safety material shall be retained. The manufacture's recommendations for proper use and disposal shall be followed. All hazardous waste (paints, acids for cleaning masonry surfaces, cleaning solvents, concrete curing compounds and additives, etc.) shall be disposed of according to local, state and federal regulations.

- All spills shall be cleaned up immediately after discovery. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance. Spills of toxic hazardous materials shall be reported to appropriate local, state and federal government agencies as soon as possible, regardless of the size. Contaminated materials shall be disposed of according to local, state and federal requirements.

- Sanitary facilities shall be provided. The location of these facilities shall be designated by the developers' construction manager. Sanitary waste shall be disposed of according to local and state regulations.

- All litter, construction debris and construction chemicals exposed to storm water shall be removed prior to anticipated storm events.

6. Inspections

During construction, inspections of the site shall be conducted at least once per week and after every storm even that causes a discharge by a qualified person for a minimum of 4 inspections per month. When possible, inspections shall be conducted prior to an anticipated storm event. All outfall points, construction entrances/exits, disturbed areas, storage areas as well as all installed erosion and sediment control devices shall be inspected. Corrective measures shall be taken within 24 hours or as soon as site conditions allow. Inspections shall be documented on MDEQ's *Inspection and Certification Form for Erosion and Sediment Control*. Documentation shall include the name, title and qualifications of the inspector, the date of the inspection, deficiencies observed and corrective measures to be taken. All records, reports and forms for this site shall be retained a minimum of three years from the date of the document's origin.

7. Staff Training Requirements

The permittee is responsible for ensuring that all activities on the site comply with the requirements of the Large Construction General Permit (LCGP), including the staff training requirements outlined in Act 5, T-20 of the LCGP.

8. Maintenance

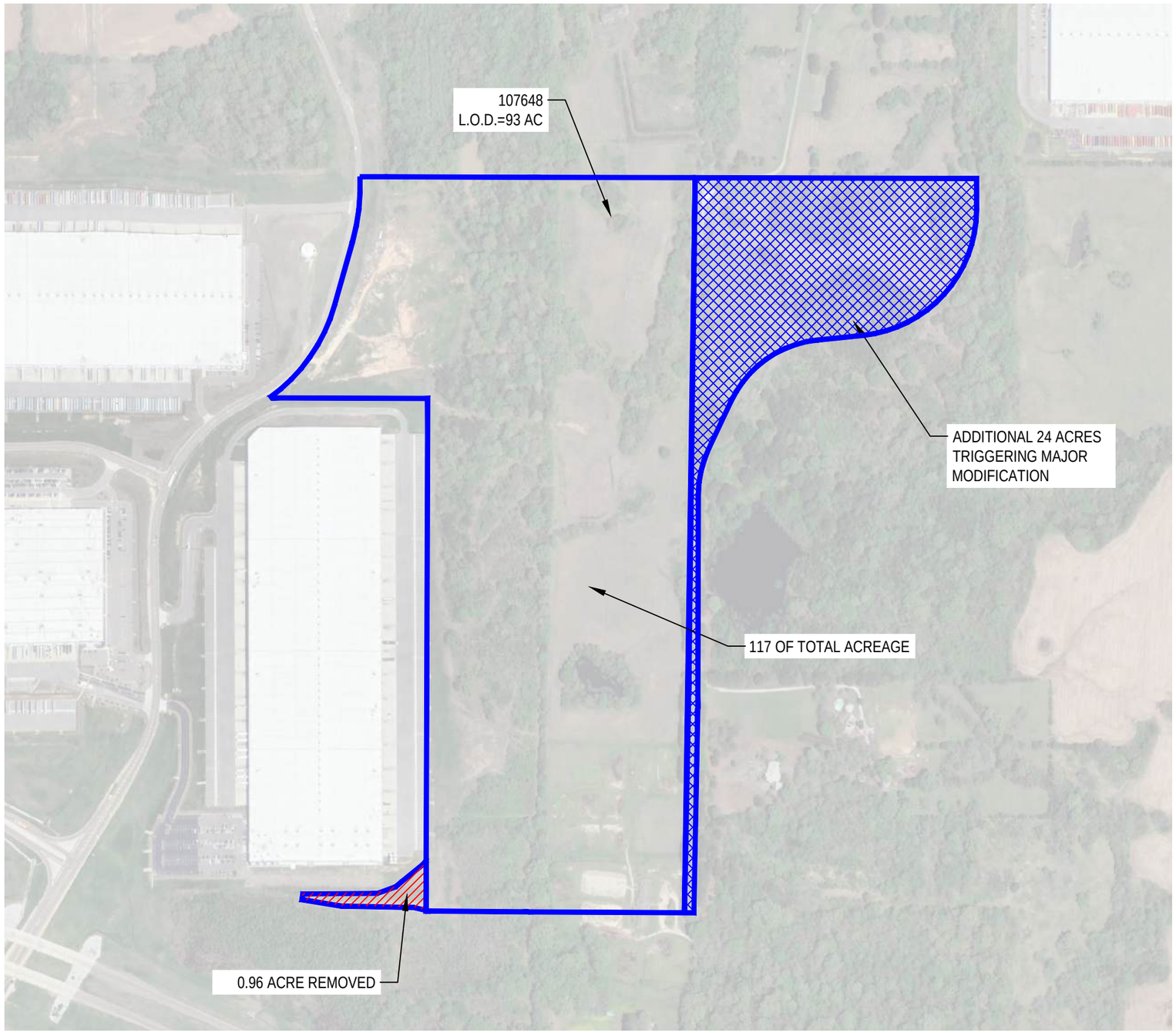
All erosion and sediment control devices shall be maintained in fully functional condition until final stabilization is reached. Nonfunctioning controls shall be repaired, replaced or supplemented with functional controls within 24 hours of discovery or as soon as site conditions allow. All controls shall be cleaned and repaired in accordance with the following:

- The construction exit shall be maintained in a condition, which shall prevent tracking or flow of mud onto the public right-of-way. This may require periodic top dressing as conditions demand.
- Silt fences shall be inspected for depth of sediment, tears, fabric attachment to fence post, and the firmness of fence post embedment. Build up of sediment shall be removed from any silt fence when it reaches one-half of the height of the fence. Silt fences shall be replaced as necessary to maintain proper function. Any sediment that escapes the installed silt fences shall be promptly removed.
- Check dams, silt screens and berms shall be regularly inspected and sediment shall be removed before it reaches one-half of the original height of the structure. Stone shall be replaced as necessary to maintain proper function.
- Rip-rap shall be regularly inspected to see if any erosion around or below the rip-rap has taken place or if the stones have dislodged. Additional rip-rap shall be added or repositioned as necessary to maintain proper function.
- Roadways on or adjacent to the site shall be regularly inspected. Sediment accumulations shall be removed as necessary.
- Temporary and permanent seeding and mulching shall be inspected for bare spots, washouts and healthy growth. Areas shall be reseeded and fertilized as necessary.
- Sediment shall be removed from the sediment ponds when capacity is reduced to 67 cubic yards per acre drained.
- All sediment removed from the pond or other devices shall be spread on-site and stabilized or disposed of at an approved site.

9. Termination of Coverage

Coverage under the General Construction Permit cannot be terminated until all construction is completed, all disturbed soils are permanently stabilized, and all temporary erosion and sediment control measures are removed; or until replacement coverage has been issued to a new operator for the entire site. Once these conditions are met, the Office of Pollution Control must be notified within 30 days by submission of the *Request for Termination of Coverage* form.

Appendix A
Figures



NORTH

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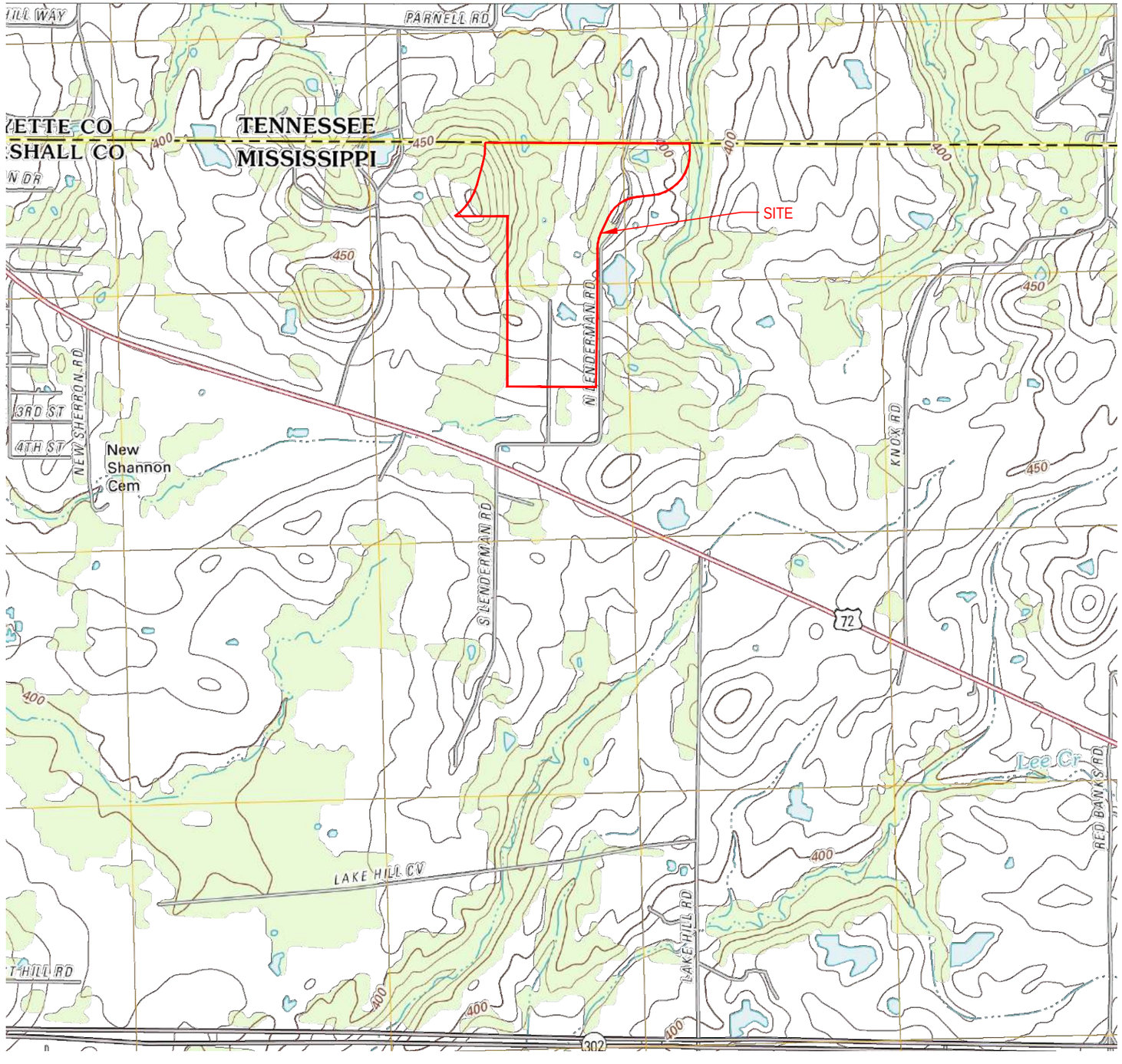
1 INCH = 500 FEET

ORIGINAL PAGE SIZE = 11"x17"

PAVEMENT HATCH LEGEND	
	AREA REMOVED
	CURRENT L.O.D. UNDER MSR 107648
	AREA ADDED TO MSR107648

Pickering

LIMITS OF DISTURBANCE EXHIBIT



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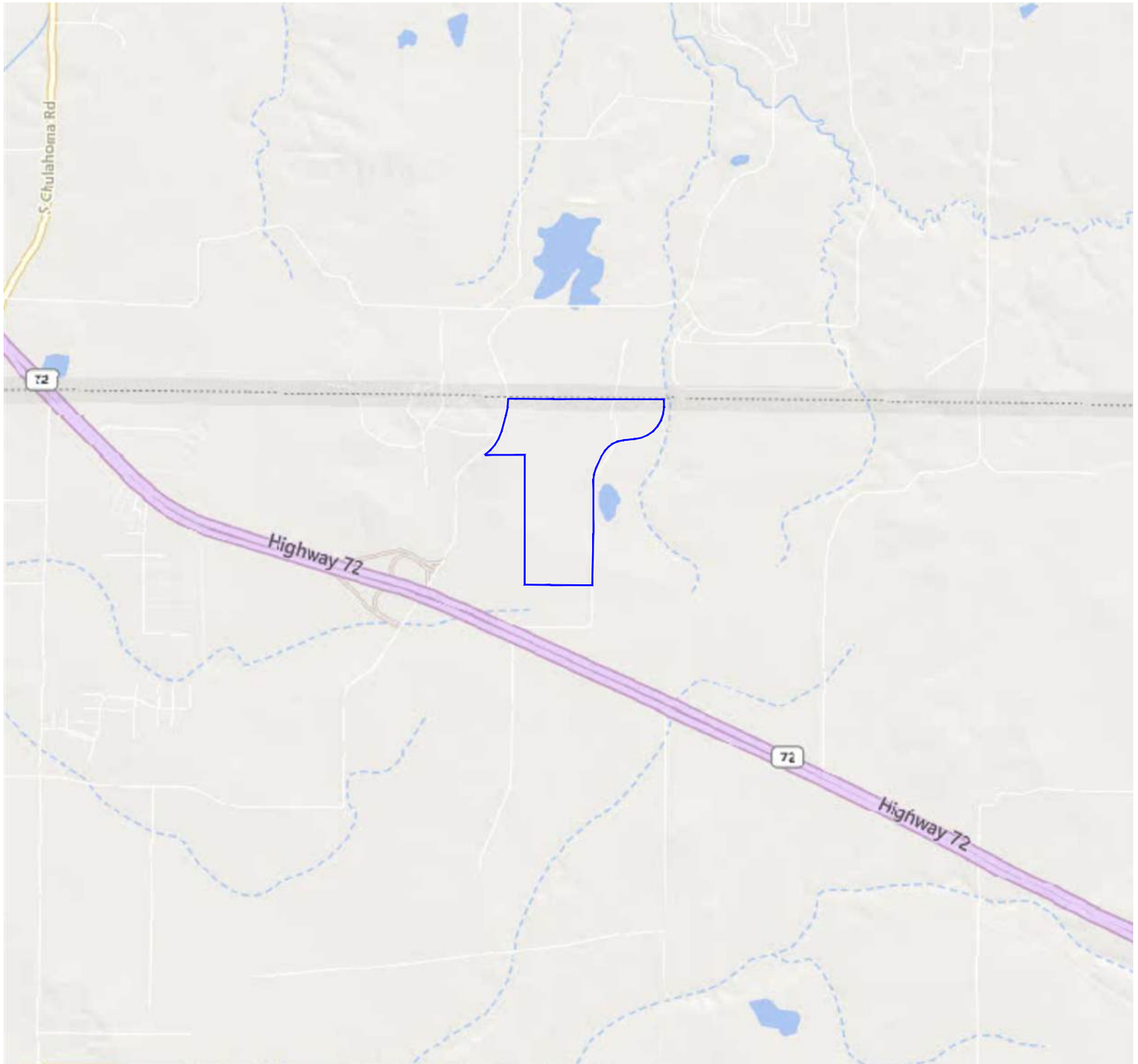
1 INCH = 1500 FEET

ORIGINAL PAGE SIZE = 11"x17"

Pickering

USGS
U.S. DEPARTMENT OF THE INTERIOR U.S.
GEOLOGICAL SURVEY
TOPO MAP



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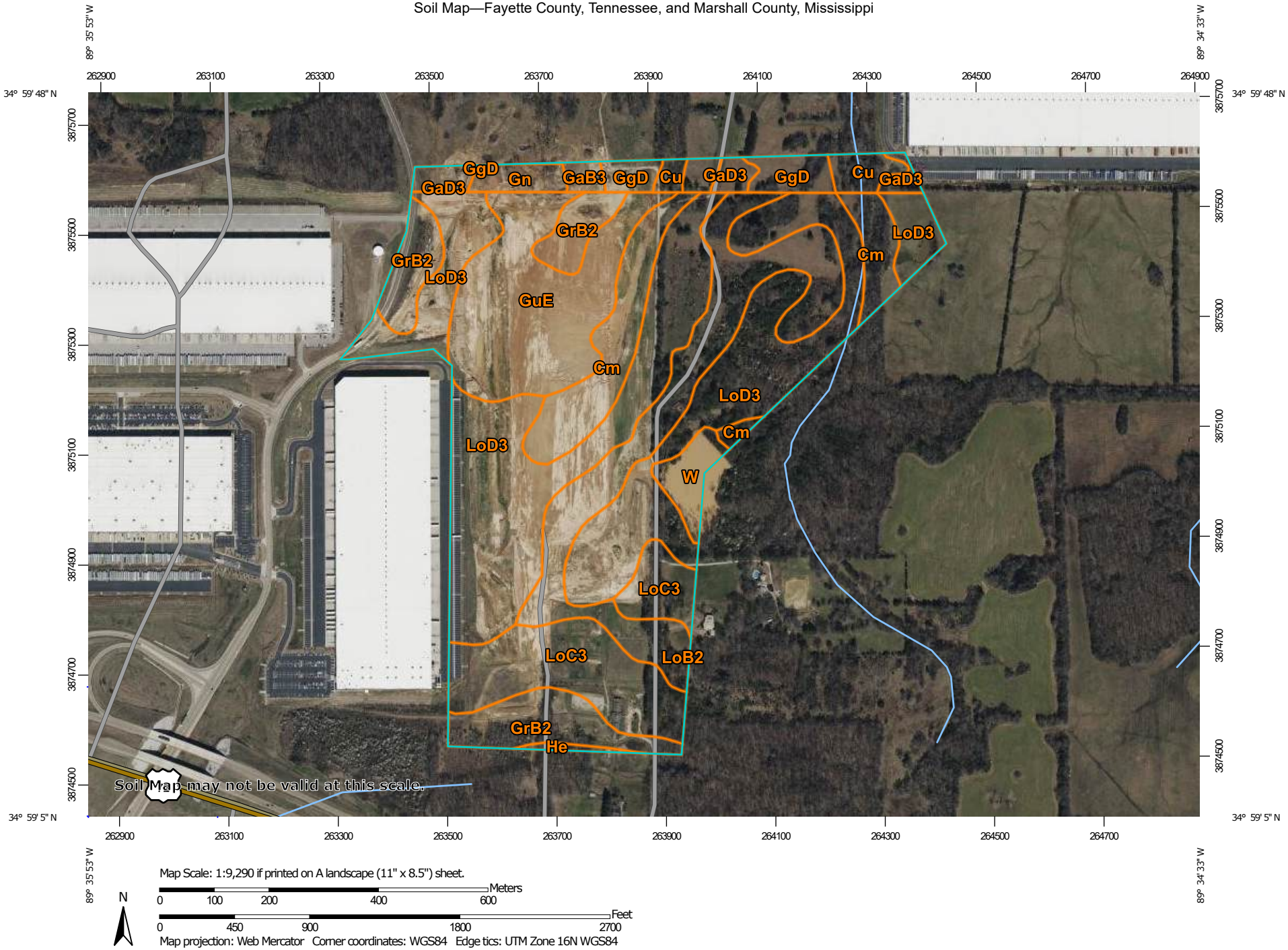
1 INCH = 2000 FEET

ORIGINAL PAGE SIZE = 11"x17"

Pickering

VICINTY MAP


89° 35' 53" W
89° 34' 33" W
34° 59' 48" N
34° 59' 5" N
262900
263100
263300
263500
263700
263900
264100
264300
264500
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264900
3875700
3875500
3875300
3875100
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3874500
GgD
GaD3
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GaB3
Cu
GrB2
LoD3
GuE
Cm
W
LoC3
LoB2
He
Soil Map may not be valid at this scale.
Map Scale: 1:9,290 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 100 200 400 600
Feet
0 450 900 1800 2700
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:15,800 to 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Fayette County, Tennessee
Survey Area Data: Version 23, Sep 12, 2024

Soil Survey Area: Marshall County, Mississippi
Survey Area Data: Version 22, Sep 6, 2024

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 13, 2023—Mar 5, 2023

MAP LEGEND

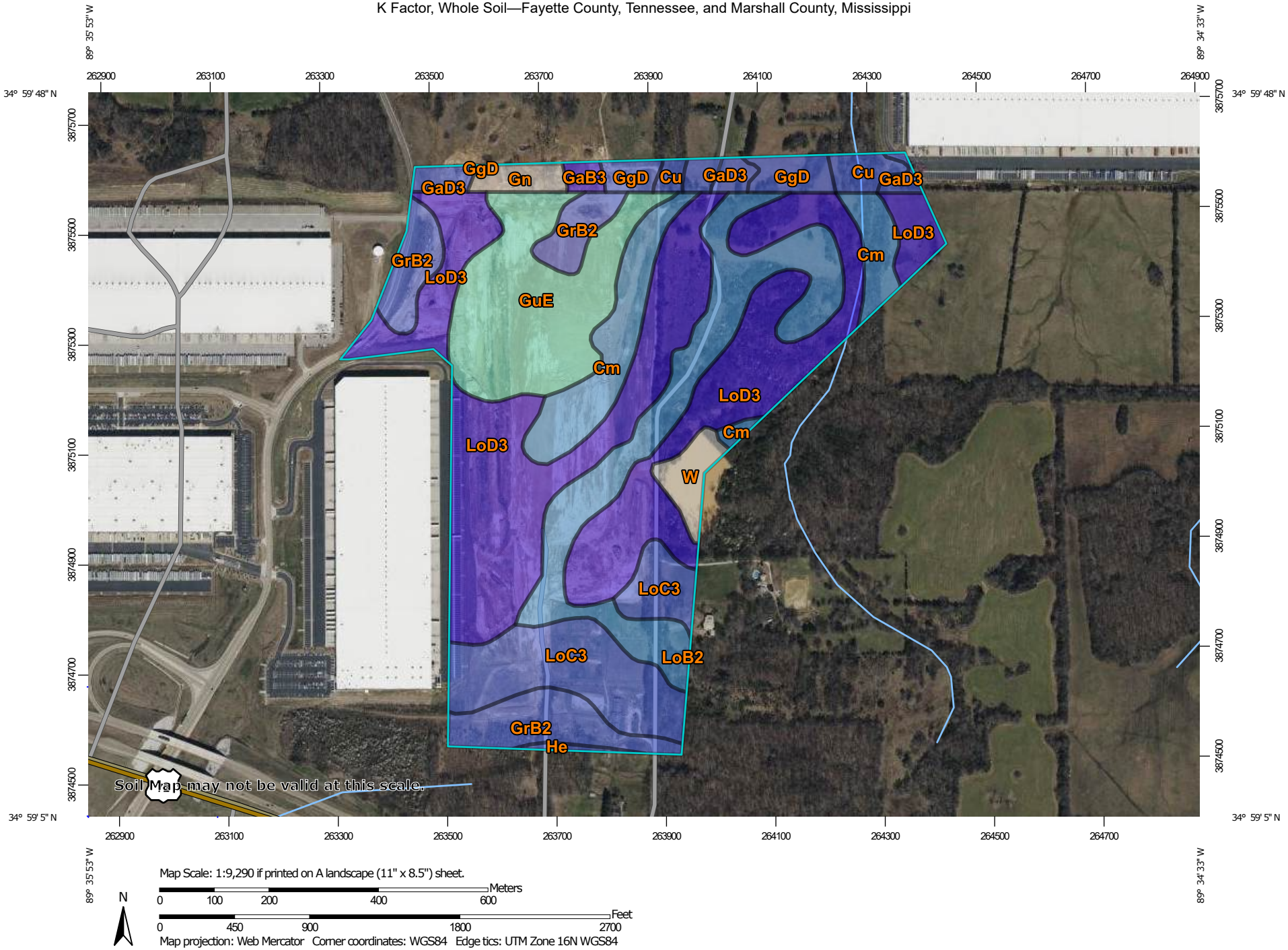
MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cu	Collins silt loam, local alluvium, 0 to 2 percent slopes, occasionally flooded, brief duration	2.7	1.6%
GaB3	Grenada silt loam, 2 to 5 percent slopes, severely eroded	0.9	0.6%
GaD3	Grenada silt loam, 8 to 12 percent slopes, severely eroded	2.9	1.7%
GgD	Grenada-Gullied land complex, 8 to 12 percent slopes	3.9	2.3%
Gn	Gullied land, sandy	2.1	1.3%
LoB3	Loring silt loam, 2 to 5 percent slopes, severely eroded	1.0	0.6%
Subtotals for Soil Survey Area		**13.5**	**8.0%**
Totals for Area of Interest		**169.2**	**100.0%**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cm	Cascilla silt loam	13.3	7.9%
GrB2	Grenada silt loam, 2 to 5 percent slopes, eroded	14.0	8.3%
GuE	Gullied land-Cahaba complex, 5 to 30 percent slopes (smithdale)	21.8	12.9%
He	Henry silt loam	0.5	0.3%
LoB2	Loring silt loam, 2 to 5 percent slopes, moderately eroded, central	22.7	13.4%
LoC3	Loring silt loam, 5 to 8 percent slopes, severely eroded, central	17.6	10.4%
LoD3	Loring silt loam, 8 to 12 percent slopes, severely eroded	62.6	37.0%
W	Water	3.0	1.8%
Subtotals for Soil Survey Area		**155.6**	**92.0%**
Totals for Area of Interest		**169.2**	**100.0%**



Map Scale: 1:9,290 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 450 900 1800 2700

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

.02
.05
.10
.15
.17
.20
.24
.28
.32
.37
.43
.49
.55
.64
Not rated or not available

Soil Rating Lines

.02
.05
.10
.15
.17
.20
.24
.28
.32
.37
.43
.49
.55
.64
Not rated or not available

Soil Rating Points

.02
.05
.10
.15
.17
.20
.24
.28
.32
.37
.43
.49
.55
.64
Not rated or not available

Water Features

Streams and Canals

Transportation

Rails
Interstate Highways
US Routes
Major Roads
Local Roads

Background

Aerial Photography

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Warning: Soil Map may not be valid at this scale.

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Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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MAP LEGEND

MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cu	Collins silt loam, local alluvium, 0 to 2 percent slopes, occasionally flooded, brief duration	.49	2.7	1.6%
GaB3	Grenada silt loam, 2 to 5 percent slopes, severely eroded	.55	0.9	0.6%
GaD3	Grenada silt loam, 8 to 12 percent slopes, severely eroded	.49	2.9	1.7%
GgD	Grenada-Gullied land complex, 8 to 12 percent slopes	.49	3.9	2.3%
Gn	Gullied land, sandy		2.1	1.3%
LoB3	Loring silt loam, 2 to 5 percent slopes, severely eroded	.49	1.0	0.6%
Subtotals for Soil Survey Area			**13.5**	**8.0%**
Totals for Area of Interest			**169.2**	**100.0%**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Cm	Cascilla silt loam	.43	13.3	7.9%
GrB2	Grenada silt loam, 2 to 5 percent slopes, eroded	.49	14.0	8.3%
GuE	Gullied land-Cahaba complex, 5 to 30 percent slopes (smithdale)	.32	21.8	12.9%
He	Henry silt loam	.49	0.5	0.3%
LoB2	Loring silt loam, 2 to 5 percent slopes, moderately eroded, central	.43	22.7	13.4%
LoC3	Loring silt loam, 5 to 8 percent slopes, severely eroded, central	.49	17.6	10.4%
LoD3	Loring silt loam, 8 to 12 percent slopes, severely eroded	.55	62.6	37.0%
W	Water		3.0	1.8%
Subtotals for Soil Survey Area			**155.6**	**92.0%**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Totals for Area of Interest			**169.2**	**100.0%**

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

Appendix B
Forms

AI 78835

Received via email 2/4/2021

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ)
Large Construction Storm Water General Permit
NPDES Permit MSR10

LARGE CONSTRUCTION FORMS PACKAGE

These standard forms are used to apply for permit coverage under the Large Construction Storm Water General Permit and for submittals and record keeping required by permit conditions after coverage has been granted. The forms are on our website at www.deq.state.ms.us/MDEQ.nsf/page/epd_epdgeneral. Required information can be completed on screen, printed and signed.

Revised: 12/06/16

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

LARGE CONSTRUCTION NOTICE OF INTENT (LCNOI) FOR COVERAGE UNDER THE LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT

INSTRUCTIONS

The Large Construction Notice of Intent (LCNOI) is for coverage under the Large Construction General Permit for land disturbing activities of five (5) acres or greater; or for land disturbing activities, which are part of a larger common plan of development or sale that are initially less than five (5) acres but will ultimately disturb five (5) or more acres. Applicant must be the owner or operator. For construction activities, the operator is typically the prime contractor. The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and severable responsibility for compliance with the Large Construction Storm Water General Permit MSR10.

If the company seeking coverage is a corporation, a limited liability company, a partnership, or a business trust, attach proof of its registration with the Mississippi Secretary of State and/or its Certificate of Good Standing. This registration or Certificate of Good Standing must be dated within twelve (12) months of the date of the submittal of this coverage form. Coverage will be issued in the company name as it is registered with the Mississippi Secretary of State.

Completed LCNOIs should be filed at least thirty (30) days prior to the commencement of construction. Discharge of storm water from large construction activities without written notification of coverage is a violation of state law.

Submittals with this LCNOI must include:
- **A site-specific Storm Water Pollution Prevention Plan (SWPPP) developed in accordance with ACT5 of the General Permit**
- **A detailed site-specific scaled drawing showing the property layout and the features outlined in ACT5 of the General Permit**
- **A United States Geological Survey (USGS) quadrangle map or photocopy, extending at least one-half mile beyond the facility property boundaries with the site location and outfalls outlined or highlighted. The name of the quadrangle map must be shown on all copies. Quadrangle maps can be obtained from the MDEQ, Office of Geology at 601-961-5523.**

Additional submittals may include the following, if applicable:
- **Appropriate Section 404 documentation from U.S. Army Corps of Engineers**
- **Appropriate documentation concerning future disposal of sanitary sewage and sewage collection system construction**
- **Appropriate documentation from the MDEQ Office of Land & Water concerning dam construction and low flow requirements**
- **Approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties**

ALL QUESTIONS MUST BE ANSWERED (Answer "NA" if the question is not applicable)

MSR10 __ __ __ __

(NUMBER TO BE ASSIGNED BY STATE)

APPLICANT IS THE: ☐ **OWNER** ☐ **PRIME CONTRACTOR**

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: _____

OWNER COMPANY LEGAL NAME: _____

OWNER STREET OR P.O. BOX: _____

OWNER CITY: _____ **STATE:** _____ **ZIP:** _____

OWNER PHONE #: (____)_____ **OWNER EMAIL:** _____

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON: _____

PRIME CONTRACTOR COMPANY LEGAL NAME: _____

PRIME CONTRACTOR STREET OR P.O. BOX: _____

PRIME CONTRACTOR CITY: _____ **STATE:** _____ **ZIP:** _____

PRIME CONTRACTOR PHONE #: (____)_____ **PRIME CONTRACTOR EMAIL:** _____

FACILITY SITE INFORMATION

FACILITY SITE NAME: _____

FACILITY SITE ADDRESS (If the physical address is not available, please indicate the nearest named road. For linear projects indicate the beginning of the project and identify all counties the project traverses.)

STREET: _____

CITY: _____ STATE: _____ COUNTY: _____ ZIP: _____

FACILITY SITE TRIBAL LAND ID (N/A If not applicable): _____

LATITUDE: ____ degrees ____ minutes ____ seconds **LONGITUDE: ____ degrees ____ minutes ____ seconds**

LAT & LONG DATA SOURCE (GPS *(Please GPS Project Entrance/Start Point)* or Map Interpolation): _____

TOTAL ACREAGE THAT WILL BE DISTURBED [1]: _____

IS THIS PART OF A LARGER COMMON PLAN OF DEVELOPMENT? **YES** ☐ **NO** ☑

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT: _____
AND PERMIT COVERAGE NUMBER: MSR10_ _ _ _

ESTIMATED CONSTRUCTION PROJECT START DATE: _____ YYYY-MM-DD

ESTIMATED CONSTRUCTION PROJECT END DATE: _____ YYYY-MM-DD

DESCRIPTION OF CONSTRUCTION ACTIVITY: _____

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:

_____

SIC Code ___ ___ ___ ___ **NAICS Code** __ __ __ __ __ __

NEAREST NAMED RECEIVING STREAM: _____

IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER BODIES? (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site: http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section**)** **YES** ☐ **NO** ☑

HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT? **YES** ☐ **NO** ☑

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN ½ MILE DOWNSTREAM OF PROJECT BOUNDRY THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITY? **YES** ☐ **NO** ☑

EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):

_____

WILL FLOCCULANTS BE USED TO TREAT TURBIDITY IN STORM WATER? **YES** ☐ **NO** ☑

IF YES, INDICATE THE TYPE OF FLOCCULANT.

☐ **ANIONIC POLYACRYLIMIDE (PAM)**
☐ **OTHER** _____

IF YES, DOES THE SWPPP DESCRIBE THE METHOD OF INTRODUCTION, THE LOCATION OF INTRODUCTION AND THE LOCATION OF WHERE FLOCCULATED MATERIAL WILL SETTLE? **YES** ☐ **NO** ☐

[1]Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a housesite of at least 10,000 ft^2 per lot (entire lot, if smaller) shall be included in calculating acreage disturbed.

DOCUMENTATION OF COMPLIANCE WITH OTHER REGULATIONS/REQUIREMENTS

COVERAGE UNDER THIS PERMIT WILL NOT BE GRANTED UNTIL ALL OTHER REQUIRED MDEQ PERMITS AND APPROVALS ARE SATISFACTORILY ADDRESSED

IS LCNOI FOR A FACILITY THAT WILL REQUIRE OTHER PERMITS? **YES ☐ NO ☐**

IF YES, CHECK ALL THAT APPLY: ☐ **AIR** ☐ **HAZARDOUS WASTE** ☐ **PRETREATMENT**

☐ **WATER STATE OPERATING** ☐ **INDIVIDUAL NPDES** ☐ **OTHER:** _____

IS THE PROJECT REROUTING, FILLING OR CROSSING A WATER CONVEYANCE OF ANY KIND? (If yes, contact the U.S. Army Corps of Engineers' Regulatory Branch for permitting requirements.) **YES ☐ NO ☑**

IF THE PROJECT REQUIRES A CORPS OF ENGINEER SECTION 404 PERMIT, PROVIDE APPROPRIATE DOCUMENTATION THAT:

- **The project has been approved by individual permit, or**
- **The work will be covered by a nationwide permit and NO NOTIFICATION to the Corps is required, or**
- **The work will be covered by a nationwide or general permit and NOTIFICATION to the Corps is required**

IS A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED? (If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.) **YES ☐ NO ☑**

IF THE PROJECT IS A SUBDIVISION OR A COMMERCIAL DEVELOPMENT, HOW WILL SANITARY SEWAGE BE DISPOSED? Check one of the following and attach the pertinent documents.

☐ **Existing Municipal or Commercial System. Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications can not be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.**

☐ **Collection and Treatment System will be Constructed. Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: _____.)**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots. Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

☐ **Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots. A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.**

INDICATE ANY LOCAL STORM WATER ORDINANCE WITH WHICH THE PROJECT MUST COMPLY:

_____

_____

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.

_____	_____
Signature of Applicant[1] (owner or prime contractor)	**Date Signed**
_____	_____
Printed Name[1]	**Title**

[1]This application shall be signed as follows:

- **For a corporation, by a responsible corporate officer.**
- **For a partnership, by a general partner.**
- **For a sole proprietorship, by the proprietor.**

For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official

Please submit the LCNOI form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

PRIME CONTRACTOR CERTIFICATION

LARGE CONSTRUCTION GENERAL PERMIT

Coverage No. MSR10 __ __ __ __ County _____

(Fill in your Certificate of Coverage Number and County)

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

By completing and submitting this form to MDEQ, the prime contractor is certifying that (1) they have operational control over the erosion and sediment control specifications (including the ability to make modifications to such specifications) or (2) they have day-to-day operational control of those activities at the site necessary to ensure compliance with the SWPPP and applicable permit conditions.

The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and severable responsibility for compliance with the permit. Notwithstanding any permit condition to the contrary, the coverage recipient and any person who causes pollution of waters of the state or places waste in a location where they are likely to cause pollution of any waters of the state shall remain responsible under applicable federal and state laws and regulations and applicable permits.

PRIME CONTRACTOR INFORMATION

PRIME CONTRACTOR CONTACT PERSON: _____PHONE NUMBER: (___)_____

PRIME CONTRACTOR COMPANY: _____

PRIME CONTRACTOR STREET (P.O. BOX): _____

PRIME CONTRACTOR CITY: _____ STATE: _____ ZIP: _____

E-MAIL ADDRESS: _____

OWNER INFORMATION

OWNER CONTACT PERSON: _____ PHONE NUMBER: (____)_____

OWNER COMPANY NAME: _____

PROJECT INFORMATION

PROJECT NAME: _____

DESCRIPTION OF CONSTRUCTION ACTIVITY: _____

_____

PHYSICAL SITE ADDRESS (If the physical address is not available indicate the nearest named road. For linear projects, indicate the beginning of the project and identify all counties the project traverses.)

STREET: _____

CITY: _____ COUNTY: _____

I certify that I am the prime contractor for this project and will comply with all the requirements in the above referenced general NPDES permit. I further 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.

_____ _____

Prime Contractor Signature[1] **Date Signed**

_____ _____

Printed Name[1] **Title**

[1]This application shall be signed as follows:

- **For a corporation, by a responsible corporate officer.**
- **For a partnership, by a general partner.**
- **For a sole proprietorship, by the proprietor.**
- **For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official.**

This Prime Contractors Certification form shall be submitted to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Revised: 10/25/16

Keep a Copy Available at the Permitted Facility or Locally Available
Submit the Inspection Reports Only if Requested by the Mississippi Department of Environmental Quality (MDEQ)

LARGE CONSTRUCTION GENERAL PERMIT
SITE INSPECTION AND CERTIFICATION FORM
COVERAGE NUMBER (MSR10 __ __ __ __)

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Results of construction storm water inspections required by ACT6 of this permit shall be recorded on this report form and kept with the Storm Water Pollution Prevention Plan (SWPPP) in accordance with the inspection documentation provisions of ACT9 of the this permit. Inspections shall be performed at least weekly for a minimum of four inspections per month. The coverage number must be listed at the top of all Inspection and Certification Forms.

COVERAGE RECIPIENT INFORMATION

OWNER/PRIME CONTRATOR NAME: _____

PROJECT NAME: _____

PROJECT STREET ADDRESS: _____

PROJECT CITY: Brandon **PROJECT COUNTY:** Rankin

OWNER/PRIME CONTRACTOR MAILING ADDRESS: _____

MAILING CITY: _____ **STATE:** _____ **ZIP:** _____

CONTACT PERSON: _____ **CONTACT PHONE NUMBER:** (_____)_____

EMAIL ADDRESS: _____

INSPECTION DOCUMENTATION

DATE (mo/day/yr)	TIME (hr:min AM/PM)	ANY DEFICIENCIES? (CHECK IF YES)	INSPECTOR(S)
		☐	
		☐	
		☐	
		☐	
		☐	
		☐	

Deficiencies Noted During any Inspection (give date(s); attach additional sheets if necessary): _____

_____

_____

Corrective Action Taken or Planned (give date(s); attach additional sheets if necessary): _____

_____

_____

Based upon this inspection, which I or personnel under my direct supervision conducted, I certify that all erosion and sediment controls have been implemented and maintained, except for those deficiencies noted above, in accordance with the Storm Water Pollution Prevention Plan (SWPPP) and sound engineering practices as required by the above referenced permit. I further certify that the LCNOI and SWPPP information is up to date.

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons 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 fines and imprisonment for knowing violations.

_____ _____
Authorized Signature Date

_____ _____
Printed Name Title

MAJOR MODIFICATION FORM
FOR LARGE CONSTRUCTION GENERAL PERMIT
Coverage No. MSR10 __ __ __ __ County _____

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Coverage recipients shall notify the Mississippi Department of Environmental Quality at least 30 days in advance of the following activities (check all that apply). This form should be submitted with a modified Storm Water Pollution Prevention Plan (SWPPP), updated USGS topographic map, Corps of Engineers Section 404 documentation and wastewater collection and treatment information, as appropriate.

☐ **SWPPP details have been developed and are ready for MDEQ review for subsequent phases of an existing, covered project.**

☐ **"Footprint" identified in the original LCNOI is proposed to be enlarged.**

This form must be signed by the current coverage recipient under Mississippi's Large Construction General Permit. A different developer of new phases of existing subdivisions must apply for separate permit coverage through the submittal of a new complete LCNOI package. Coverage recipients are authorized to discharge storm water associated with proposed expansions of existing subdivisions or subsequent phases, under the conditions of the General Permit, only upon receipt of written notification of approval by MDEQ. All other modifications, such as changes of erosion and sediment controls used, must be in accordance with ACT6, S-1 (6) and S-2 (7) of the General Permit.

ALL INFORMATION MUST BE COMPLETED (indicate "N/A" where not applicable)

COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT NAME: _____ TEL # (_____) _____

COMPANY NAME: _____

STREET OR P.O. BOX: _____

CITY: _____ STATE: _____ ZIP: _____ E-MAIL: _____

PROJECT INFORMATION

PROJECT NAME: _____

CITY: _____

ADDITIONAL ACREAGE TO BE DISTURBED: _____ TOTAL PROJECT ACREAGE: _____

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.

_____ _____
Signature (must be signed by coverage recipient) Date

_____ _____
Printed Name Title

Please submit this form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Revised: 12/12/16

Environmental Permits for Industrial Facilities
Request for Transfer of Permit, General Permit Coverage and/or Name Change

Instructions: For Ownership Change-Complete all Items on Page 1 (except Item VIII) and Page 2 (reverse side).
For Name Change Only-Complete Items I, II, V, VI, VII, VIII, and Page 2 (reverse side).
Note-This form should be submitted to MDEQ when a transferal date is finalized but prior to the actual transfer.

Item I.

Facility Name: _____

Location: (Do Not Use P.O. Box)

Street: _____

City: _____ State: MS Zip: _____

County: _____

Telephone: (_____)_____

Item II.

Responsible official after transfer or name change:

Name: _____

Title: _____

Mailing Address:
Street/P.O. Box: _____

City: _____ State: _____ Zip: _____

Telephone (_____)_____

Item III.

Previous Permittee[1]: _____

Mailing Address:

Street/P.O. Box:_____

City: _____ State: _____ Zip: _____

Telephone: (_____)_____

Item IV.

New Permittee[1]: _____

Mailing Address:

Street/P.O. Box:_____

City: _____ State: _____ Zip: _____

Telephone: (_____)_____

Item V.

Industrial Activity SIC Code: _____

Brief Description:

Item VI.

Will Facility Operations Change? Yes _____ No _____

If yes, the appropriate applications and permits may require modification prior to change.

Item VII.

Will Facility Name Change? Yes_____ No_____

If Yes, Provide New Name for Permit Coverage.

New Name:_____

Item VIII.

Signature for Name Change

Print Name: _____

Authorized Signature[2]: _____

Title: _____ Date: _____

Item IX.

We the undersigned request transfer of permit(s) and/or permit coverage(s) listed on the backside of this form.

From:_____

To:_____ Acquisition Date:_____

By signature below, the recipient certifies that: 1) they are aware of the requirements of the permit(s), 2) the applicant can demonstrate to the Permit Board it has the financial resources and operational expertise and 3) agrees to accept responsibility and liability for the permit(s) listed on the back of this document. By signature below, the previous permittee is requesting that the permit(s) and/or permit coverage(s) be transferred to the recipient. The transfer of the permit(s) or permit coverage(s) will be by written notification from the Office of Pollution Control (OPC). The OPC may require submittal of information regarding financial capability and past compliance history of the recipient.

_____ _____
Print New Permittee[1] Name Print Previous Permittee[1] Name

_____ _____
New Authorized Signature[2] Previous Authorized Signature[2]

_____ _____ _____ _____
Title Date Title Date

[1]A Permittee is a company or individual that has been issued an individual permit or coverage under a general permit.
[2]Authorized Signature must be owner or in the case of a corporation, a corporate officer as defined in Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2. and 11 Miss. Admin. Code Pt. 6, Ch. 1.

Mississippi Department of Environmental Quality/Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225
(601) 961-5171

Item X. Storm Water

(Check One)

☐ A Storm Water Pollution Prevention Plan (SWPPP) is not required for the site.

☐ The recipient certifies that they have received a copy of the Office of Pollution Control approved SWPPP from the original owner.

☐ The recipient is submitting a new SWPPP, which is attached to this form.

☐ A copy of the SWPPP cannot be obtained from the original owner.

Item XI. Hazardous Waste ID Number

EPA ID No. ______________________________

(Check One)

☐ An EPA Hazardous Waste ID Number is not required for the site.

☐ The site's EPA ID Number is listed above and a Notification of Regulated Waste Activity Form is attached.

Item XII. Permit(s) and/or Coverage(s) to be Transferred

Permit Type: ______________________________
Permit/Coverage No.: ______________________________
Permit Issuance Date: ______________________________
Date of General Permit Coverage: ________________
Permit Expiration Date: ________________________

Permit Type: ______________________________
Permit/Coverage No.: ______________________________
Permit Issuance Date: ______________________________
Date of General Permit Coverage: ________________
Permit Expiration Date: ________________________

Permit Type: ______________________________
Permit/Coverage No.: ______________________________
Permit Issuance Date: ______________________________
Date of General Permit Coverage: ________________
Permit Expiration Date: ________________________

Permit Type: ______________________________
Permit/Coverage No.: ______________________________
Permit Issuance Date: ______________________________
Date of General Permit Coverage: ________________
Permit Expiration Date: ________________________

Permit Type: ______________________________
Permit/Coverage No.: ______________________________
Permit Issuance Date: ______________________________
Date of General Permit Coverage: ________________
Permit Expiration Date: ________________________

Permit Type: ______________________________
Permit/Coverage No.: ______________________________
Permit Issuance Date: ______________________________
Date of General Permit Coverage: ________________
Permit Expiration Date: ________________________

Permit Type: ______________________________
Permit/Coverage No.: ______________________________
Permit Issuance Date: ______________________________
Date of General Permit Coverage: ________________
Permit Expiration Date: ________________________

OTHER INFORMATION:

INSPECTION SUSPENSION FORM

UNDER LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT MSR10

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Coverage recipients under Mississippi's Large Construction Storm Water General Permit may temporarily suspend required weekly inspections of erosion and sediment controls and monthly record keeping by submission of this form. Inspections may be suspended only when land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established (see ACT9, S-1). The coverage recipient is responsible for all permit conditions during the suspension period and nothing in this condition shall limit the rights of MDEQ to take enforcement or other actions against the coverage recipient. Once land disturbing activities resume MDEQ must be notified and all inspections and record keeping required by the permit must also resume. Color photographs, representative of the construction site, must be submitted with this inspection form.

COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT PERSON: _____

COMPANY NAME: _____

STREET OR P.O. BOX: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE # (INCLUDE AREA CODE): _____ E-MAIL: _____

PROJECT INFORMATION

CONSTRUCTION STORM WATER GENERAL PERMIT COVERAGE NUMBER: MSR10 __ __ __ __

PROJECT NAME: _____

CITY: _____ COUNTY: _____

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**. I further certify that: land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established**.

_____ _____

Signature (must be signed by coverage recipient) Date Signed

_____ _____

Printed Name Title

Please submit this form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Revised: 12/10/2016

Request for Termination (RFT) of Coverage

LARGE CONSTRUCTION GENERAL PERMIT

Coverage No. MSR10 __ __ __ __ County _____

(Fill in your Certificate of Coverage Number and County)

This form must be submitted within thirty (30) days of achieving final stabilization (see ACT10, S-1 of general permit). Failure to submit this form is a violation of permit conditions.

The signatory of this form must be the owner or operator (prime contractor) who is the current coverage recipient (rather than the project manager or environmental consultant).

(Please Print or Type)

Project Name: _____

Physical Site Street Address (if not available, indicate nearest named road): _____

City: _____ **County:** _____ **Zip:** _____

Coverage Recipient Company Name: _____

Street Address / P.O. Box: _____

City: _____ **State:** _____ **Zip:** _____

Coverage Recipient Contact Name and Position: _____ **Tel. #:** (_____) _____

Has another owner(s) or operator(s) assumed control over all areas of the site that have not reached final stabilization?

RESIDENTIAL SUBDIVISIONS:

- ☐ **YES. A copy of the Registration Form for Residential Lot Coverage for each lot or out parcel that has been sold and a site map, indicating which lots have been sold, are attached.**
- ☐ **NO. Coverage may not be terminated until all areas have reached final stabilization.**

COMMERCIAL DEVELOPMENT:

- ☐ **YES. A copy of the site map, indicating which out-parcels have been sold, is attached.**
- ☐ **NO. Coverage may not be terminated until all areas have reached final stabilization.**

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 fines and imprisonment for knowing violations. I understand that by submitting this Request for Termination and receiving written confirmation, I will no longer be authorized to discharge storm water associated with construction activity under this general permit. Discharging pollutants associated with construction activity to waters of the State without proper permit coverage is a violation of state law. I also understand that the submittal of this Request for Termination does not release an owner or operator from liability for any violations of this permit or the Clean Water Act.

_____	_____	_____	_____
Authorized Name (Print)	Telephone	Signature	Date Signed

[1]This application shall be signed according to the General Permit, ACT11, T-7 as follows:

- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.
- For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official.

After signing please mail to: Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Employee Training Log

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Instructions: Newly hired employees responsible for implementing and/or complying with the requirements of the permit shall receive initial training prior to performing such responsibilities. Employees shall receive refresher training at a minimum of every twelve (12) months, thereafter. Proper documentation of employee training must be maintained. Include copies of the training agenda and certificates of training when applicable. All training records shall be maintained for at least three years from the date of training. [Large Construction General Permit ACT9 R-1]

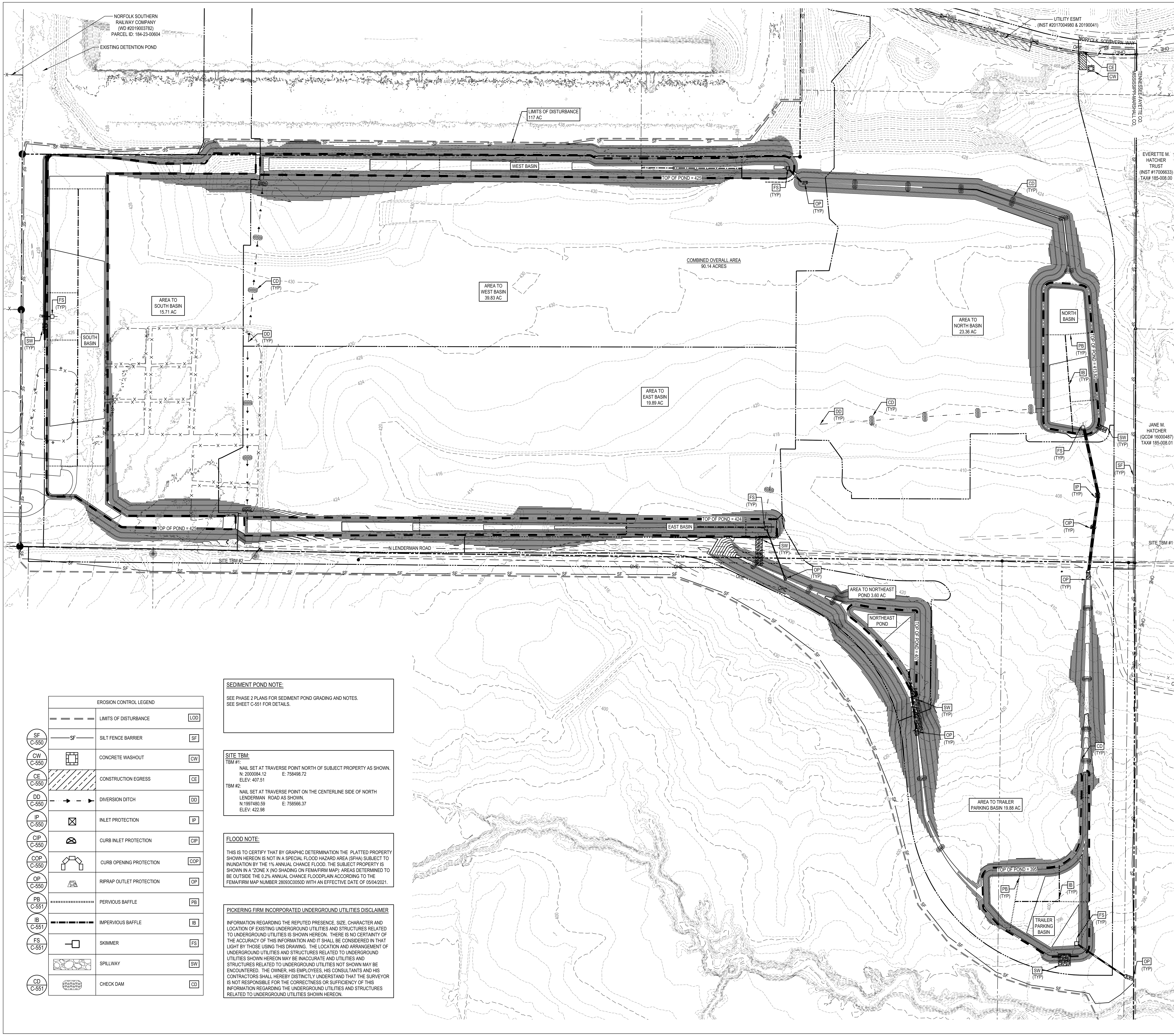
Facility Name:	Physical Address:
Coverage Number:	Training Date:
Training Topic:	
Training Description:	

Employee Name (printed)	Employee Signature	Worker ID Number	Initial/Refresher

"I certify under penalty of law that this report is true, accurate, and complete, to the best of my knowledge and belief."

Trainer Name (printed)	Trainer Signature	Date

Appendix C
Plans



EROSION CONTROL LEGEND		
	LIMITS OF DISTURBANCE	LOD
SF C-550	SILT FENCE BARRIER	SF
CW C-550	CONCRETE WASHOUT	CW
CE C-550	CONSTRUCTION EGRESS	CE
DD C-550	DIVERSION DITCH	DD
IP C-550	INLET PROTECTION	IP
CIP C-550	CURB INLET PROTECTION	CIP
COP C-550	CURB OPENING PROTECTION	COP
OP C-550	RIPRAP OUTLET PROTECTION	OP
PB C-551	PERVIOUS BAFFLE	PB
IB C-551	IMPERVIOUS BAFFLE	IB
FS C-551	SKIMMER	FS
	SPILLWAY	SW
CD C-551	CHECK DAM	CD

SEDIMENT POND NOTE:

SEE PHASE 2 PLANS FOR SEDIMENT POND GRADING AND NOTES.
SEE SHEET C-551 FOR DETAILS.

SITE TBM:

TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51

TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE PLATTED PROPERTY SHOWN HEREON IS NOT IN A SPECIAL FLOOD HAZARD AREA (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE SUBJECT PROPERTY IS SHOWN IN A "ZONE X (NO SHADING ON FEMA/FIRM MAP): AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO THE FEMA/FIRM MAP NUMBER 28093C0050D WITH AN EFFECTIVE DATE OF 05/04/2021.

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER

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EROSION AND SEDIMENTATION CONTROL NOTES:

1. ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
2. SILT FENCES, HAY BALES, AND OTHER BEST MANAGEMENT PRACTICES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES, SEDIMENT INLET TRAPS, HAY BALES, AND OTHER BEST MANAGEMENT PRACTICES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTROLS SHOWN ON THE PLAN ARE THE MINIMUM REQUIRED AND THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE MDEQ STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE MDEQ STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
6. PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
7. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.
8. ABSOLUTELY NO DIRT, MUD, DUST OR SEDIMENT SHALL MOVE INTO ANY STORM DRAIN APPURTENANCES AND PUBLIC STREETS.
9. CONTRACTOR SHALL PERFORM DAILY STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF DIRT AND MUD ARE NOT ADEQUATELY REMOVED FROM VEHICLES AT THE CONSTRUCTION EXIT. WASHING OF STREETS IS PROHIBITED.
10. LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
11. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
12. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
13. CONTRACTOR SHALL INSPECT ALL STRUCTURAL CONTROLS WITHIN 24 HOURS AFTER ANY STORM EVENT THAT PRODUCES A DISCHARGE. DURING PROLONGED RAINFALL EVENTS, CONTRACTOR SHALL INSPECT STRUCTURAL CONTROLS ON A DAILY BASIS. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED EVERY CALENDAR WEEK FOR A MINIMUM OF 4 INSPECTIONS PER MONTH. A QUALIFIED REPRESENTATIVE OF THE CONTRACTOR, AS APPROVED BY THE OWNER, SHALL PROVIDE THESE INSPECTIONS. SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS.
14. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
15. CONTRACTOR WILL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
16. EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
17. THE CONTRACTOR SHALL PROVIDE ALL EROSION CONTROL NECESSARY FOR UTILITY CONSTRUCTION, EVEN IF THE UTILITIES ARE OUTSIDE THE LIMITS OF GRADING OPERATIONS.
18. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM FACE OF THE SILT FENCE WHEN IT REACHES A MAXIMUM DEPTH OF 50% OF THE FENCE'S CAPACITY. THE FENCE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
19. SEDIMENT WILL BE REMOVED FROM ALL SEDIMENT BASINS WHEN IT REACHES A MAXIMUM DEPTH OF 50% OF THE BASIN CAPACITY.
20. THE SKIMMER FOR ALL SEDIMENT BASINS IS SIZED TO ALLOW FOR A 48-HOUR MINIMUM DRAWDOWN OF THE REQUIRED STORAGE VOLUME.
21. THE CONTRACTOR SHALL SUBMIT PHASED EROSION CONTROL PLANS TO THE ENGINEER FOR REVIEW AS NEEDED TO CONTROL SEDIMENT AND EROSION DURING CONSTRUCTION.
22. CONTRACTOR SHALL MUCK OUT SEDIMENT PONDS THROUGHOUT THE PROJECT WHEN SEDIMENT HAS ACCUMULATED TO THE SEDIMENT CLEAN OUT POINTS SHOWN IN THE PROJECT DETAILS AND SHALL MUCK OUT BOTH PONDS PRIOR TO FINAL STABILIZATION.
23. TEMPORARY SEEDING MAY BE REQUIRED IN ADDITION TO PERMANENT SEEDING TO ASSIST IN COMPLYING WITH THE CONSTRUCTION GENERAL PERMIT.

NOTE:
LIMITS OF DISTURBED AREA SHALL REMAIN INSIDE THE BOUNDARIES OF THE SUBJECT PROPERTY AND EASEMENTS.

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

SM DESIGN & CONSULTING, PC
855 Bloomfield Avenue, Suite 220
Glen Ridge, NJ 07028
Telephone 973-259-9500
www.smdcpc.com

CONSULTANT

STRUCTURAL CONSULTANTS
SHIRK & O'DONOVAN CONSULTING ENGINEERS, INC
370 EAST WILSON BRIDGE ROAD
WORTHINGTON, OH 43085
PH: 614.436.6465

MEP CONSULTANTS
KRAEMER CONSULTING ENG PLLC
2050 W. WHISPERING WIND DR, STE 158
PHOENIX, AZ 85085
PH: 602.285.1669

FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
2400 MEADBROOK PKWAY, SUITE 250
DULUTH, GA 30096
PH: 770.564.3505

TELECOMMUNICATIONS CONSULTANTS
HARGIS ENGINEERS, INC
1201 THIRD AVENUE, SUITE 600
SEATTLE, WA 98101
PH: 206.448.3376

IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

Pickering Firm, Inc.
Engineering
Planning · Surveying

SITE CIVIL
PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

GREGORY J. CARRICO LICENSED PROFESSIONAL ENGINEER 29969 STATE OF MISSISSIPPI
02/07/2025

END USER

amazon

PROJECT DESCRIPTION

2026 IXD GEN5M
CROSS-DOCK WAREHOUSE FACILITY (RECEIPT & REDISTRIBUTION)

PROJECT LOCATION

GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE

OVERALL EROSION AND SEDIMENT CONTROL PLAN-PHASE 1

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

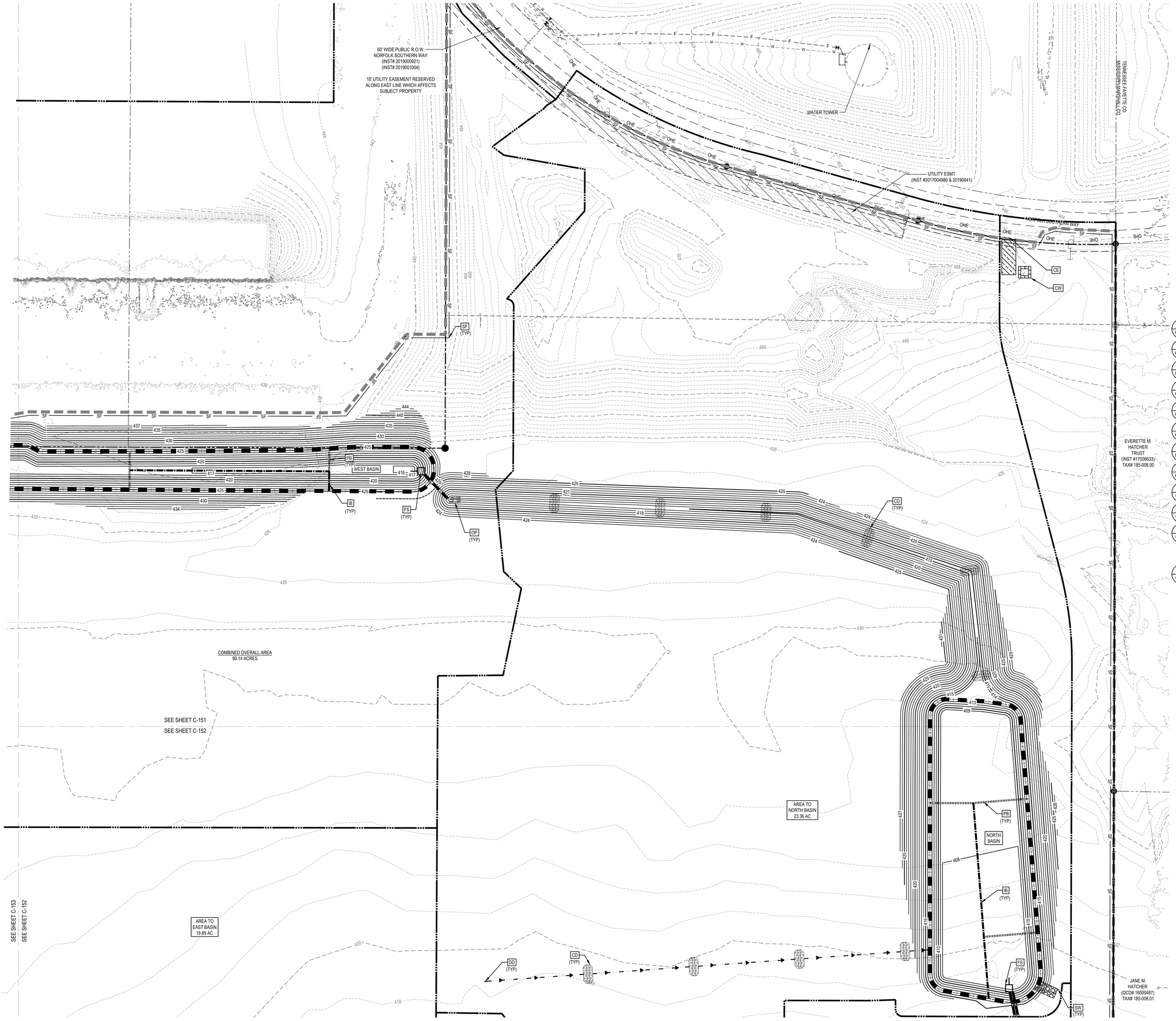
REVISION SCHEDULE

	11 / 08 / 2024	30% Schematic Design
	12 / 05 / 2024	60% DD (BID)
	01 / 08 / 2025	REVIEW SET: CD 85%
	02 / 07 / 2025	100%/ PERMIT SET

SHEET NUMBER

C-150

Submittal Type — Working Documents



NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-150 FOR EROSION CONTROL NOTES.

	EROSION CONTROL LEGEND	
	LIMITS OF DISTURBANCE	LOD
SF C-550	SILT FENCE BARRIER	SF
CW C-550	CONCRETE WASHOUT	CW
CE C-550	CONSTRUCTION EGRESS	CE
DD C-550	DIVERSION DITCH	DD
IP C-550	INLET PROTECTION	IP
CIP C-550	CURB INLET PROTECTION	CIP
COP C-550	CURB OPENING PROTECTION	COP
OP C-550	RIPRAP OUTLET PROTECTION	OP
PB C-551	PERVIOUS BAFFLE	PB
IB C-551	IMPERVIOUS BAFFLE	IB
FS C-551	SKIMMER	FS
	SPILLWAY	SW
CD C-551	CHECK DAM	CD

SITE TBM:

TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51

TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

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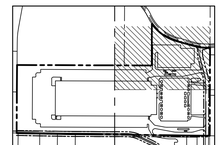

KEY MAP
N.T.S.

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

.

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

SM DESIGN & CONSULTING, PC
855 Bloomfield Avenue, Suite 220
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PHOENIX, AZ 85085
PH: 602.285.1669

harrington GROUP STRUCTURES
Atlanta, GA • Charlotte, NC

FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
2400 MEADBROOK PKWAY, SUITE 250
DULUTH, GA 30096
PH: 770.564.3505

HARGIS

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IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

Pickering
Pickering Firm, Inc.
Engineering
Planning · Surveying

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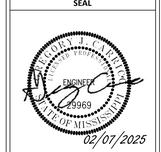
SEAL



END USER

amazon

PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
Gateway Global logistics center
RAIL TO ROAD
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE 1 - ZONE 1

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

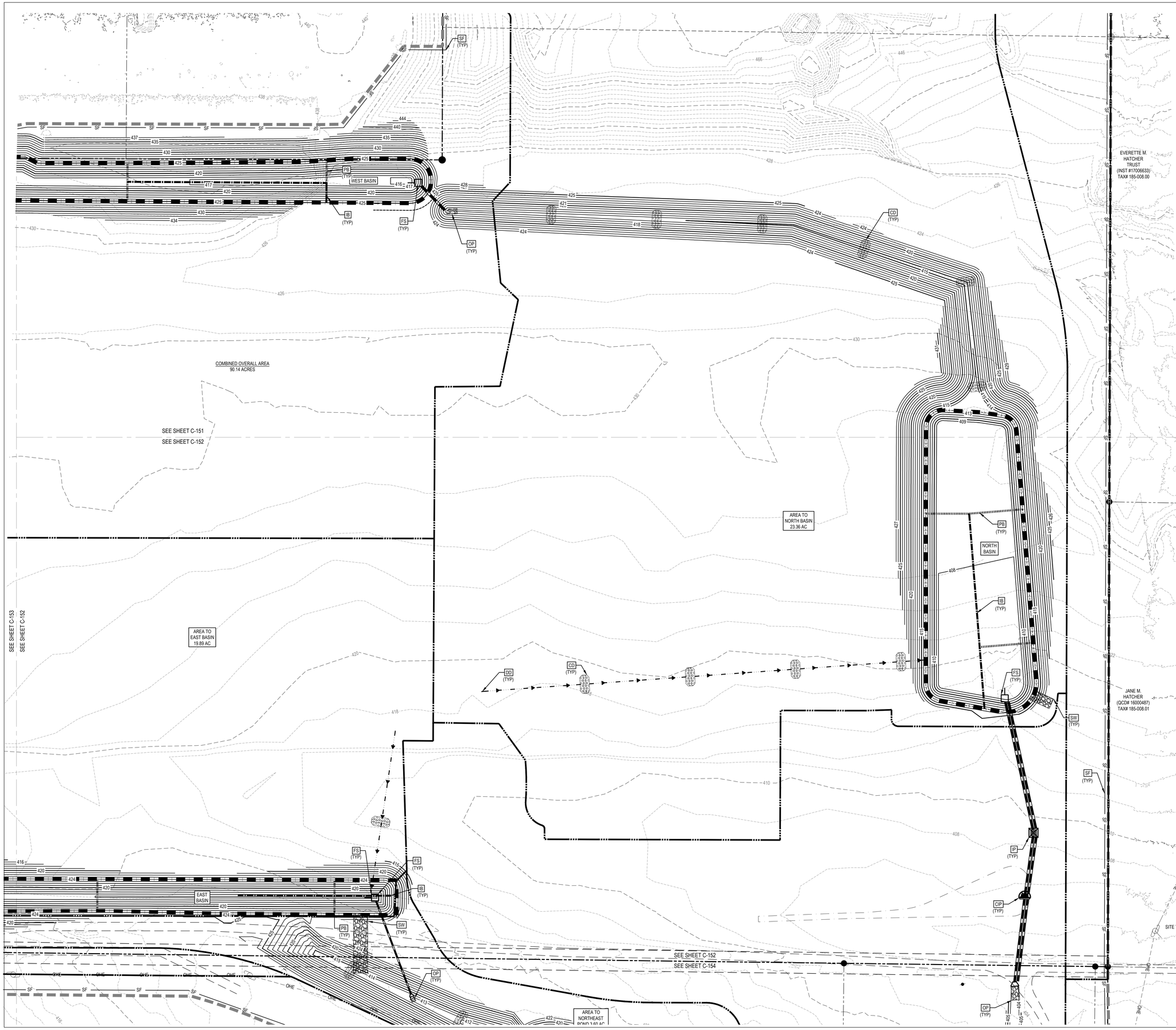
REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100%/ PERMIT SET

SHEET NUMBER

C-151

Submittal Type – Working Documents



NOTE:
SEE SHEET C-150 FOR EROSION CONTROL NOTES.

EROSION CONTROL LEGEND		
	LIMITS OF DISTURBANCE	LOD
SF C-550	SILT FENCE BARRIER	SF
CW C-550	CONCRETE WASHOUT	CW
CE C-550	CONSTRUCTION EGRESS	CE
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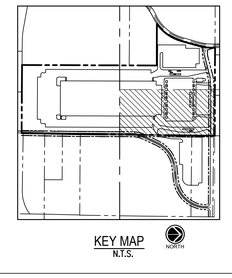

KEY MAP
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APPROVAL STAMP:

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CROSS-DOCK WAREHOUSE FACILITY
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BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN PHASE 1 - ZONE 2

SHEET MANAGEMENT

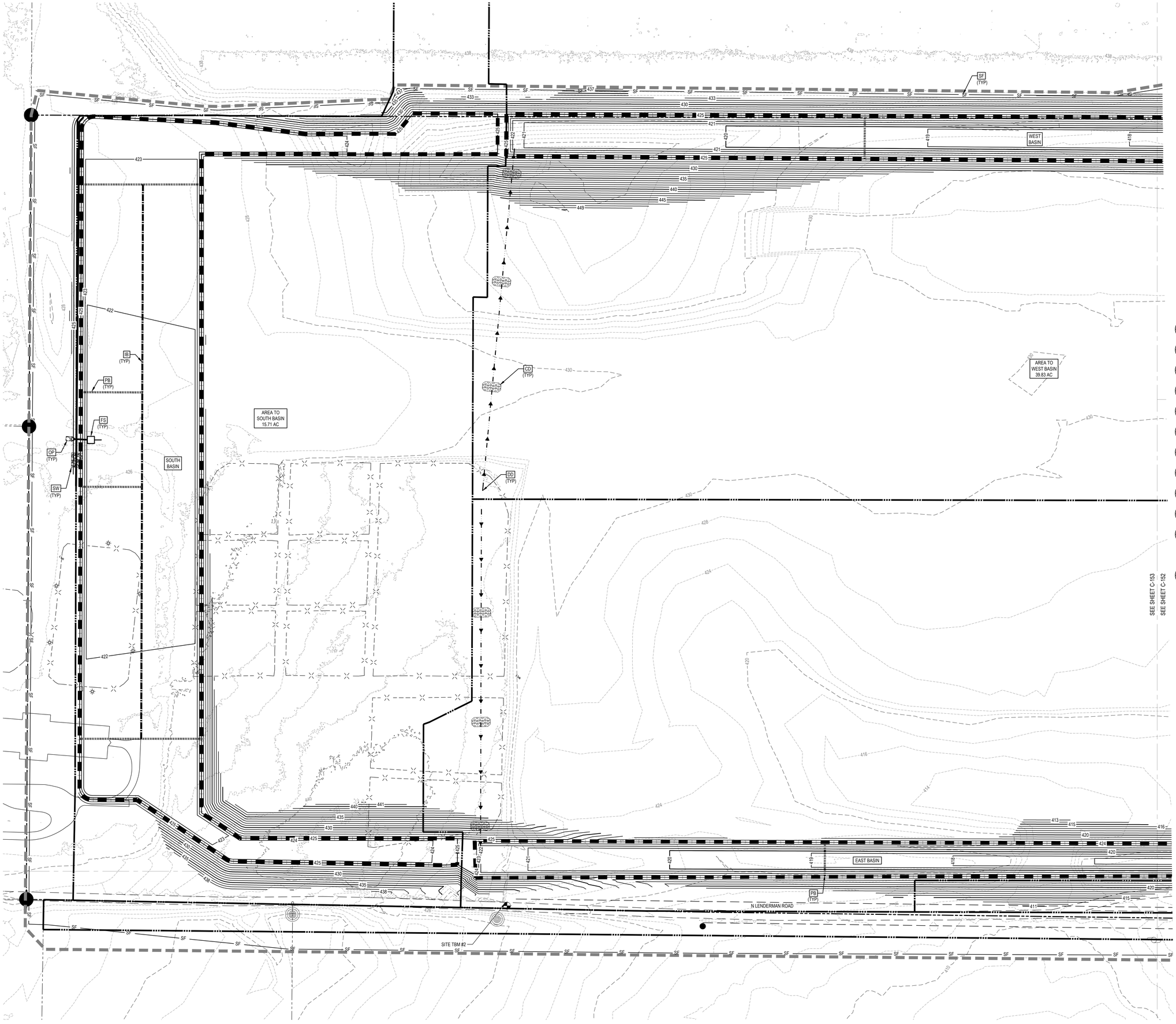
PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PP
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET, CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER
C-152

Submittal Type – Working Documents



NORTH

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1 INCH = 50 FEET

NOTE:
SEE SHEET C-150 FOR EROSION CONTROL NOTES.

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COP C-550	CURB OPENING PROTECTION	COP
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PB C-551	PERVIOUS BAFFLE	PB
IB C-551	IMPERVIOUS BAFFLE	IB
FS C-551	SKIMMER	FS
	SPILLWAY	SW
CD C-551	CHECK DAM	CD

SITE TBM:

TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51

TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

FLOOD NOTE:

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PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER

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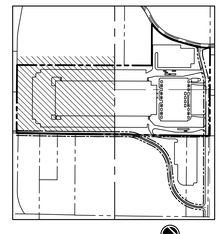

KEY MAP
N.T.S.

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

SM DESIGN & CONSULTING, PC
855 Bloomfield Avenue, Suite 220
Glen Ridge, NJ 07028
Telephone 973-259-9500
www.smdcpc.com

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SHIRK & O'DONOVAN CONSULTING ENGINEERS, INC
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WORTHINGTON, OH 43085
PH: 614.436.6465

MEP CONSULTANTS
KRAEMER CONSULTING ENG PLLC
2050 W. WHISPERING WIND DR, STE 158
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FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
2400 MEADBROOK PKWAY, SUITE 250
DULUTH, GA 30096
PH: 770.564.3505

TELECOMMUNICATIONS CONSULTANTS
HARGIS ENGINEERS, INC
1201 THIRD AVENUE, SUITE 600
SEATTLE, WA 98101
PH: 206.448.3376

IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

SITE CIVIL
PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

ENGINEER 29969 STATE OF MISSISSIPPI
02/07/2025

END USER

amazon

PROJECT DESCRIPTION

2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION

GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE 1 - ZONE 3

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

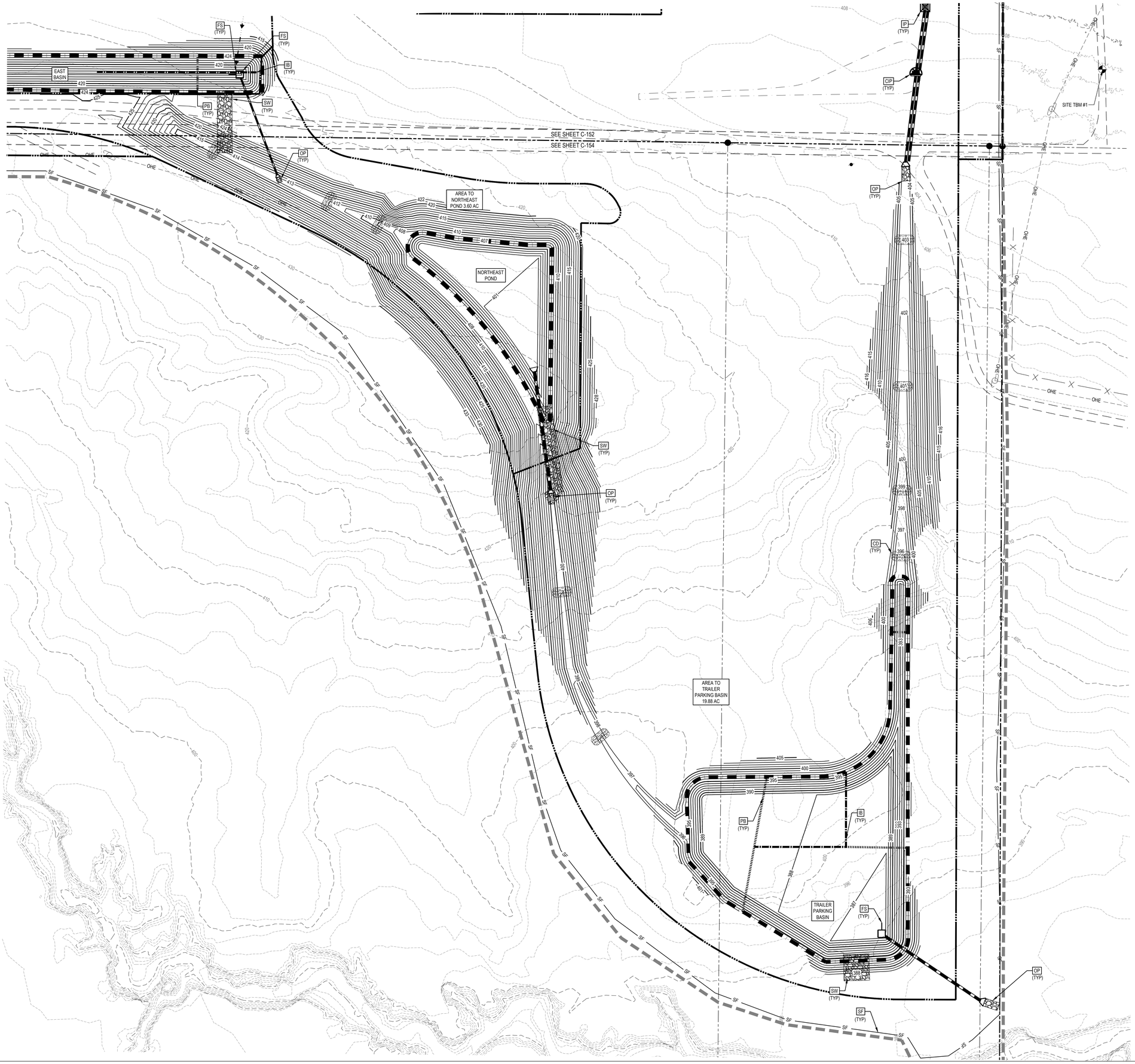
REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET, CD 85%
02 / 07 / 2025	100% PERMIT SET

SHEET NUMBER

C-153

Submittal Type – Working Documents



NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-150 FOR EROSION CONTROL NOTES.

	EROSION CONTROL LEGEND	
	LIMITS OF DISTURBANCE	LOD
SF C-550	SILT FENCE BARRIER	SF
CW C-550	CONCRETE WASHOUT	CW
CE C-550	CONSTRUCTION EGRESS	CE
DD C-550	DIVERSION DITCH	DD
IP C-550	INLET PROTECTION	IP
CIP C-550	CURB INLET PROTECTION	CIP
COP C-550	CURB OPENING PROTECTION	COP
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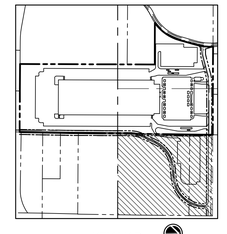

KEY MAP
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harrington GROUP PLANNING + DESIGN
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Pickering Firm, Inc.
Engineering
Planning · Surveying

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PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
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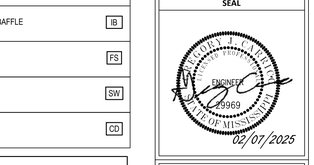
SEAL



END USER

amazon

PROJECT DESCRIPTION

2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION

Gateway Global logistics center
RAIL TO ROAD

GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE 1 - ZONE 4

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

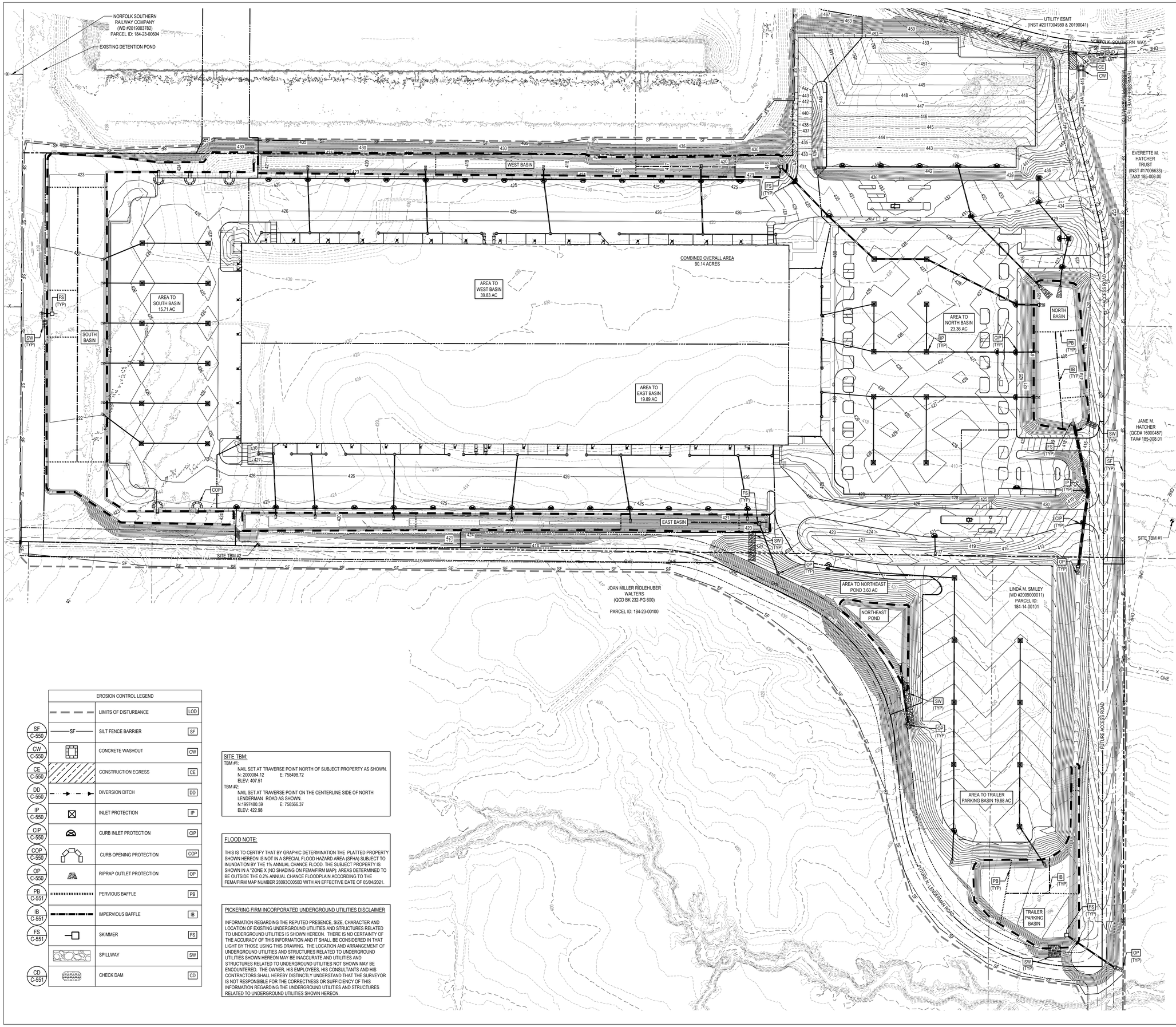
REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER

C-154

Submittal Type - Working Documents



NOTE:
SEE SHEET C-550 FOR DETAILS.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
2. SILT FENCES, HAY BALES, AND OTHER BEST MANAGEMENT PRACTICES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES, SEDIMENT INLET TRAPS, HAY BALES, AND OTHER BEST MANAGEMENT PRACTICES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTROLS SHOWN ON THE PLAN ARE THE MINIMUM REQUIRED AND THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE MDEQ STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE MDEQ STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
6. PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
7. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.
8. ABSOLUTELY NO DIRT, MUD, DUST OR SEDIMENT SHALL MOVE INTO ANY STORM DRAIN APPURTENANCES AND PUBLIC STREETS.
9. CONTRACTOR SHALL PERFORM DAILY STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF DIRT AND MUD ARE NOT ADEQUATELY REMOVED FROM VEHICLES AT THE CONSTRUCTION EXIT. WASHING OF STREETS IS PROHIBITED.
10. LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
11. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
12. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
13. CONTRACTOR SHALL INSPECT ALL STRUCTURAL CONTROLS WITHIN 24 HOURS AFTER ANY STORM EVENT THAT PRODUCES A DISCHARGE. DURING PROLONGED RAINFALL EVENTS, CONTRACTOR SHALL INSPECT STRUCTURAL CONTROLS ON A DAILY BASIS. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED EVERY CALENDAR WEEK FOR A MINIMUM OF 4 INSPECTIONS PER MONTH. A QUALIFIED REPRESENTATIVE OF THE CONTRACTOR, AS APPROVED BY THE OWNER, SHALL PROVIDE THESE INSPECTIONS. SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS.
14. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
15. CONTRACTOR WILL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
16. EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
17. THE CONTRACTOR SHALL PROVIDE ALL EROSION CONTROL NECESSARY FOR UTILITY CONSTRUCTION, EVEN IF THE UTILITIES ARE OUTSIDE THE LIMITS OF GRADING OPERATIONS.
18. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM FACE OF THE SILT FENCE WHEN IT REACHES A MAXIMUM DEPTH OF 50% OF THE FENCE'S CAPACITY. THE FENCE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
19. SEDIMENT WILL BE REMOVED FROM ALL SEDIMENT BASINS WHEN IT REACHES A MAXIMUM DEPTH OF 50% OF THE BASIN CAPACITY.
20. THE SKIMMER FOR ALL SEDIMENT BASINS IS SIZED TO ALLOW FOR A 48-HOUR MINIMUM DRAWDOWN OF THE REQUIRED STORAGE VOLUME.
21. THE CONTRACTOR SHALL SUBMIT PHASED EROSION CONTROL PLANS TO THE ENGINEER FOR REVIEW AS NEEDED TO CONTROL SEDIMENT AND EROSION DURING CONSTRUCTION.
22. CONTRACTOR SHALL MUCK OUT SEDIMENT PONDS THROUGHOUT THE PROJECT WHEN SEDIMENT HAS ACCUMULATED TO THE SEDIMENT CLEAN OUT POINTS SHOWN IN THE PROJECT DETAILS AND SHALL MUCK OUT BOTH PONDS PRIOR TO FINAL STABILIZATION.
23. TEMPORARY SEEDING MAY BE REQUIRED IN ADDITION TO PERMANENT SEEDING TO ASSIST IN COMPLYING WITH THE CONSTRUCTION GENERAL PERMIT.

NOTE:
LIMITS OF DISTURBED AREA SHALL REMAIN INSIDE THE BOUNDARIES OF THE SUBJECT PROPERTY AND EASEMENTS.

EROSION CONTROL LEGEND

	LIMITS OF DISTURBANCE	LOD
SF C-550	SILT FENCE BARRIER	SF
CW C-550	CONCRETE WASHOUT	CW
CE C-550	CONSTRUCTION EGRESS	CE
DD C-550	DIVERSION DITCH	DD
IP C-550	INLET PROTECTION	IP
CIP C-550	CURB INLET PROTECTION	CIP
COP C-550	CURB OPENING PROTECTION	COP
OP C-550	RIPRAP OUTLET PROTECTION	OP
PB C-551	PERVIOUS BAFFLE	PB
IB C-551	IMPERVIOUS BAFFLE	IB
FS C-551	SKIMMER	FS
	SPILLWAY	SW
CD C-551	CHECK DAM	CD

SITE TBM:
TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51
TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
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Planning · Surveying

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SEAL

STATE OF MISSISSIPPI · ENGINEER · 29969 · REGISTERED · STATE OF MISSISSIPPI
02/07/2025

END USER
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PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
Gateway Global logistics center
RAIL TO ROAD
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
OVERALL EROSION AND SEDIMENT CONTROL PLAN-PHASE 2

SHEET MANAGEMENT

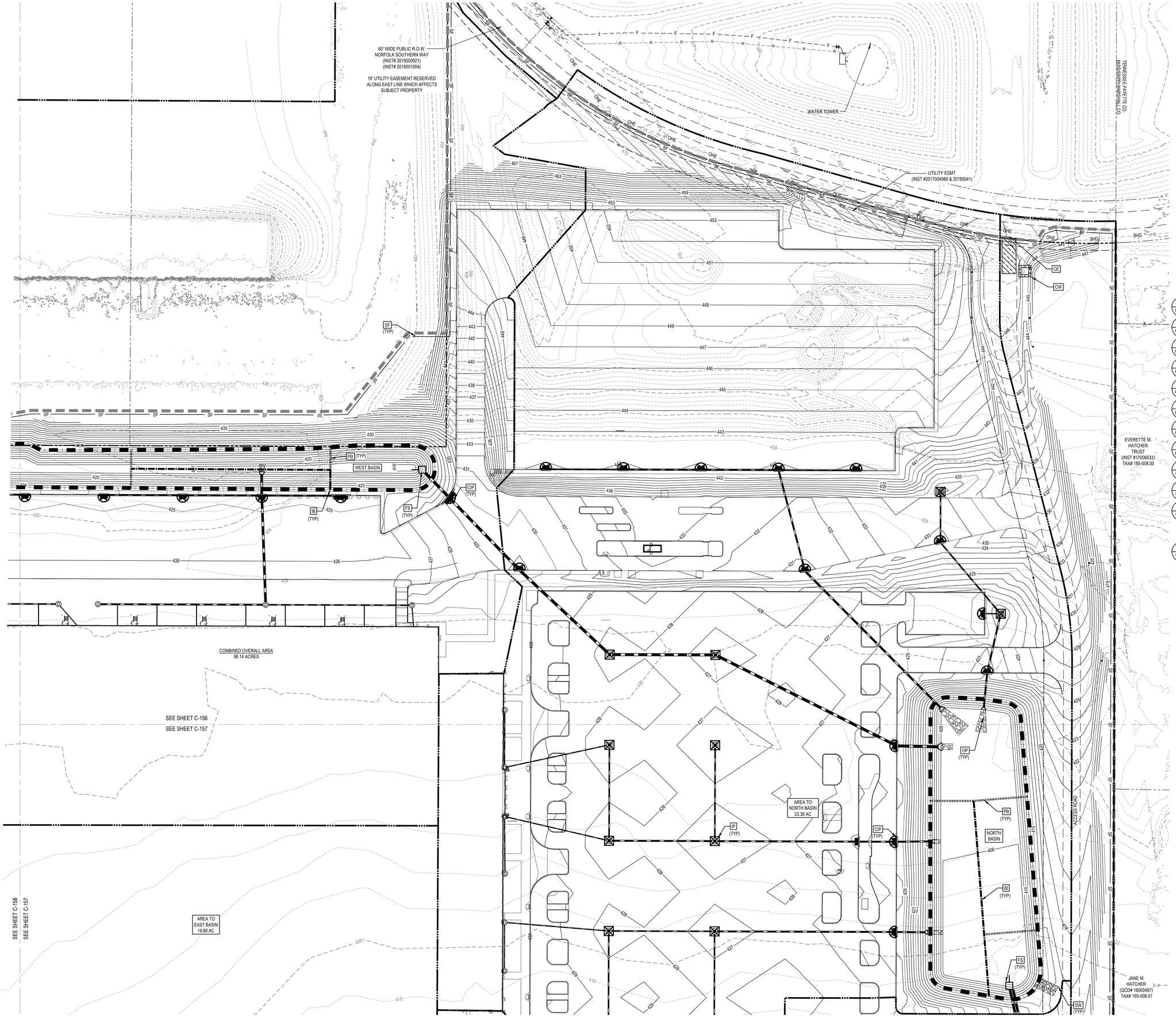
PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER
C-155

Submittal Type – Working Documents



NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-155 FOR EROSION CONTROL NOTES.

	EROSION CONTROL LEGEND	
	LIMITS OF DISTURBANCE	LOD
SF C-550	SILT FENCE BARRIER	SF
CW C-550	CONCRETE WASHOUT	CW
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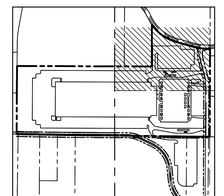

KEY MAP
N.T.S.

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
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PH: 602.285.1669

FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
2400 MEADBROOK PKWAY, SUITE 250
DULUTH, GA 30096
PH: 770.564.3505

TELECOMMUNICATIONS CONSULTANTS
HARGIS ENGINEERS, INC
1201 THIRD AVENUE, SUITE 600
SEATTLE, WA 98101
PH: 206.448.3376

IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

SITE CIVIL
PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

ENGINEER — 29969 — STATE OF MISSISSIPPI
02/07/2025

END USER
amazon

PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN PHASE 2 - ZONE 1

SHEET MANAGEMENT

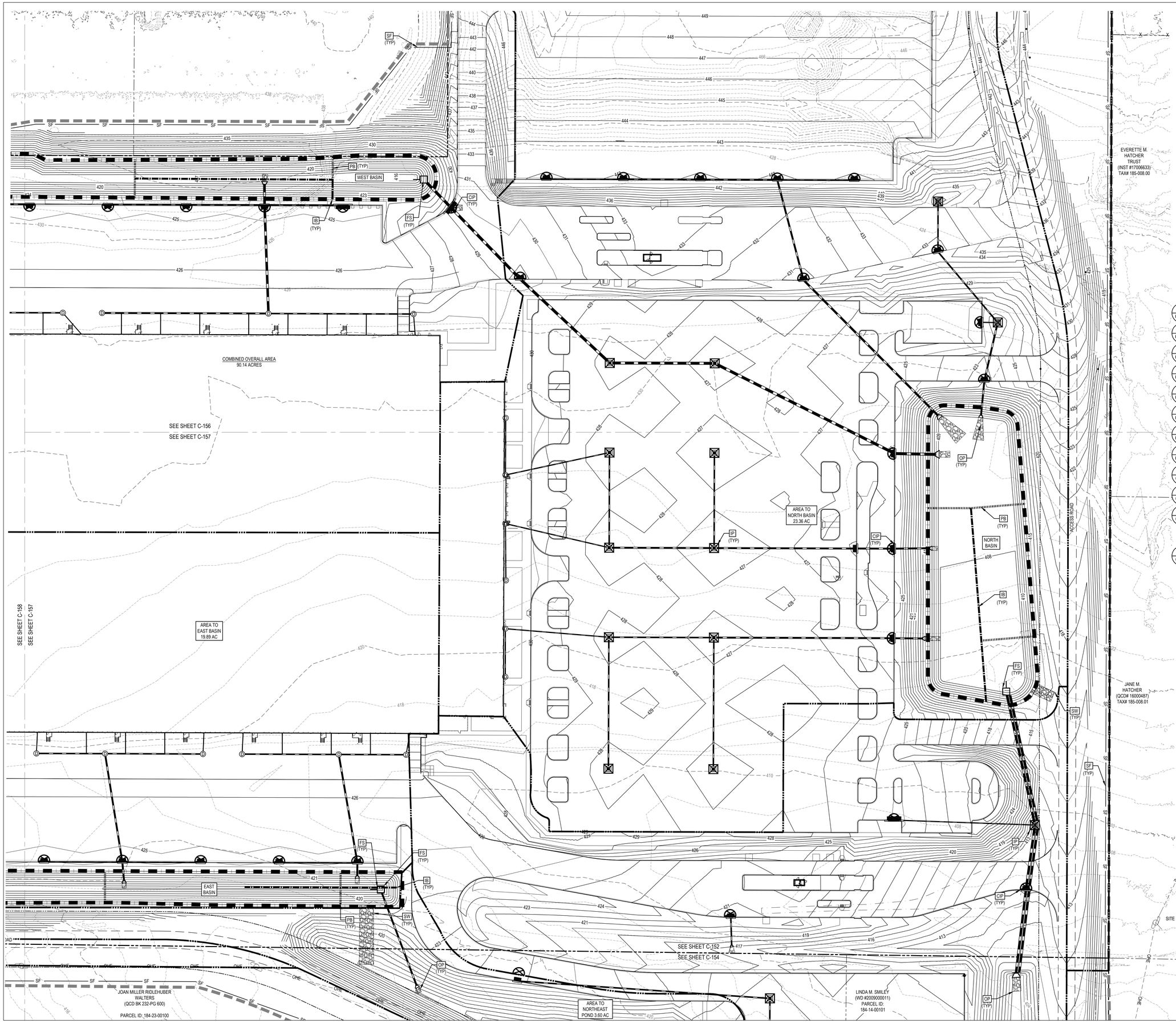
PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100%/ PERMIT SET

SHEET NUMBER
C-156

Submittal Type – Working Documents



NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-155 FOR EROSION CONTROL NOTES.

	EROSION CONTROL LEGEND		
	LIMITS OF DISTURBANCE	LOD	
SF C-550	SILT FENCE BARRIER	SF	
CW C-550	CONCRETE WASHOUT	CW	
CE C-550	CONSTRUCTION EGRESS	CE	
DD C-550	DIVERSION DITCH	DD	
IP C-550	INLET PROTECTION	IP	
CIP C-550	CURB INLET PROTECTION	CIP	
COP C-550	CURB OPENING PROTECTION	COP	
OP C-550	RIPRAP OUTLET PROTECTION	OP	
PB C-551	PERVIOUS BAFFLE	PB	
IB C-551	IMPERVIOUS BAFFLE	IB	
FS C-551	SKIMMER	FS	
	SPILLWAY	SW	
CD C-551	CHECK DAM	CD	

SITE TBM:
TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51
TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE PLATTED PROPERTY SHOWN HEREON IS NOT IN A SPECIAL FLOOD HAZARD AREA (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE SUBJECT PROPERTY IS SHOWN IN A 'ZONE X (NO SHADING ON FEMA/FIRM MAP). AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO THE FEMA/FIRM MAP NUMBER 28093C0050D WITH AN EFFECTIVE DATE OF 05/04/2021.

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON.

KEY MAP
N.T.S.

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

SM DESIGN & CONSULTING, PC
855 Bloomfield Avenue, Suite 220
Glen Ridge, NJ 07028
Telephone 973-259-9500
www.smdcpc.com

CONSULTANT
SHIRK & O'DONOVAN CONSULTING ENGINEERS

STRUCTURAL CONSULTANTS
SHIRK & O'DONOVAN CONSULTING ENGINEERS, INC
370 EAST WILSON BRIDGE ROAD
WORTHINGTON, OH 43085
PH: 614.436.6465

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KRAEMER CONSULTING ENG PLLC
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IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

Pickering Firm, Inc.
Engineering
Planning · Surveying

SITE CIVIL
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6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

TENNESSEE REGISTERED ENGINEER 29969 02/07/2025

END USER
amazon

PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
Gateway Global logistics center
RAIL TO ROAD
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN PHASE 2 - ZONE 2

SHEET MANAGEMENT

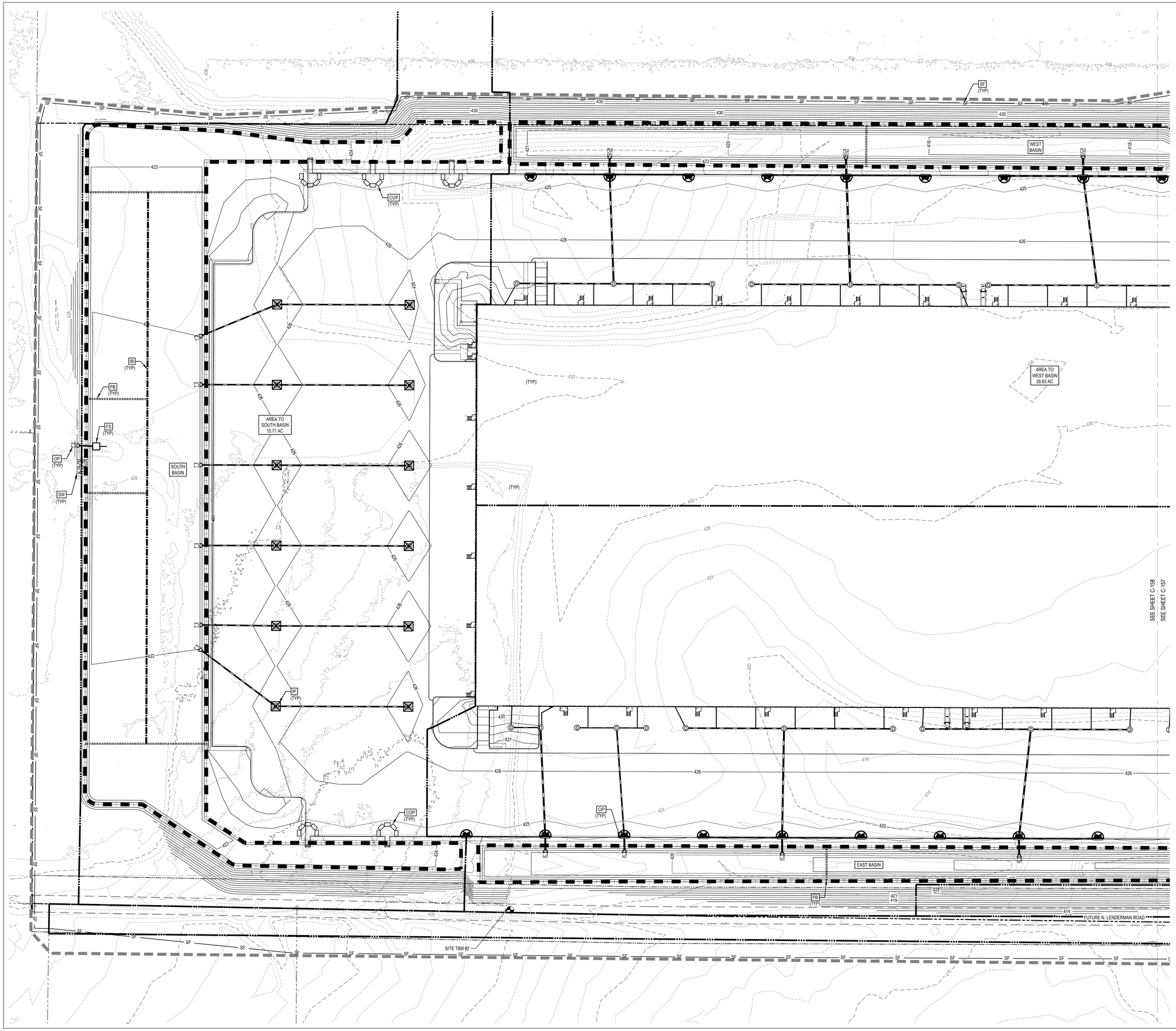
PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PPJ
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER
C-157

Submittal Type – Working Documents



NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-155 FOR EROSION CONTROL NOTES.

	EROSION CONTROL LEGEND	
	LIMITS OF DISTURBANCE	LOD
SF C-550	SILT FENCE BARRIER	SF
CW C-550	CONCRETE WASHOUT	CW
CE C-550	CONSTRUCTION EGRESS	CE
DD C-550	DIVERSION DITCH	DD
IP C-550	INLET PROTECTION	IP
CIP C-550	CURB INLET PROTECTION	CIP
COP C-550	CURB OPENING PROTECTION	COP
OP C-550	RIPRAP OUTLET PROTECTION	OP
PB C-551	PERVIOUS BAFFLE	PB
IB C-551	IMPERVIOUS BAFFLE	IB
FS C-551	SKIMMER	FS
SW	SPILLWAY	SW
CD C-551	CHECK DAM	CD

SITE TBM:

TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51

TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N: 1997480.59 E: 758566.37
ELEV: 422.98

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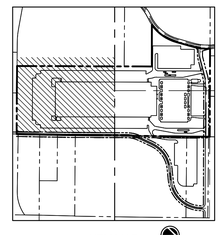

KEY MAP
N.T.S.

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

.

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ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

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PHOENIX, AZ 85085
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harrington group
Atlanta, GA • Charlotte, NC

FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
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DULUTH, GA 30096
PH: 770.564.3505

HARGIS

TELECOMMUNICATIONS CONSULTANTS
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IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

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Planning · Surveying

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PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

ENGINEER 25969 STATE OF MISSISSIPPI
02/01/2025

END USER

amazon

PROJECT DESCRIPTION

2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION

Gateway Global logistics center
RAIL TO ROAD

GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN PHASE 2 - ZONE 3

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

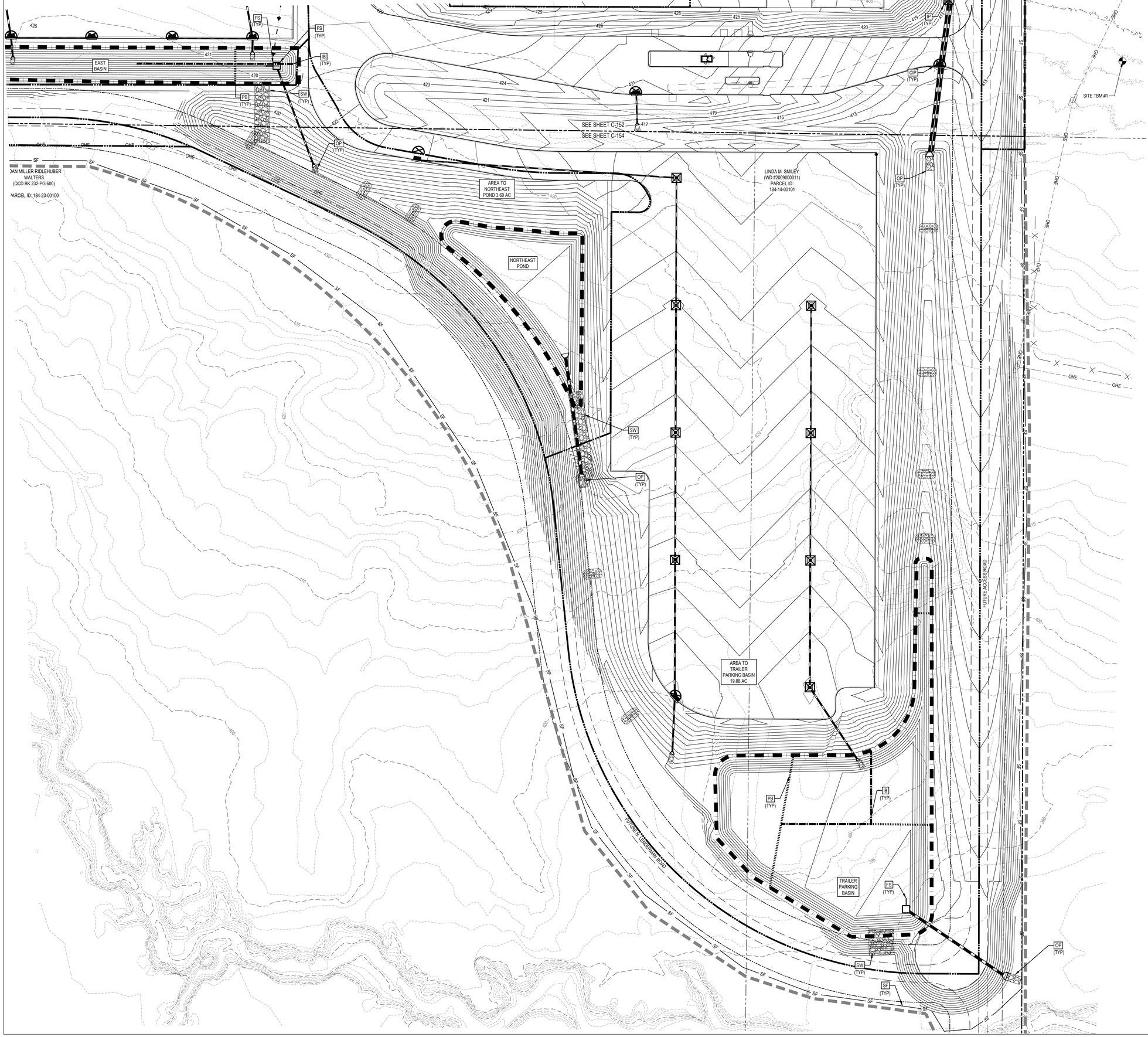
REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% PERMIT SET

SHEET NUMBER

C-158

Submittal Type - Working Documents



NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-155 FOR EROSION CONTROL NOTES.

	EROSION CONTROL LEGEND		
		LIMITS OF DISTURBANCE	LOD
SF C-550	SF	SILT FENCE BARRIER	SF
CW C-550		CONCRETE WASHOUT	CW
CE C-550		CONSTRUCTION EGRESS	CE
DD C-550		DIVERSION DITCH	DD
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CIP C-550		CURB INLET PROTECTION	CIP
COP C-550		CURB OPENING PROTECTION	COP
OP C-550		RIPRAP OUTLET PROTECTION	OP
PB C-551		PERVIOUS BAFFLE	PB
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		SPILLWAY	SW
CD C-551		CHECK DAM	CD

SITE TBM:
TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51
TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
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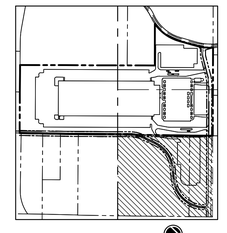

KEY MAP N.T.S.

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

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CONSULTANT
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FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
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TELECOMMUNICATIONS CONSULTANTS
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PH: 206.448.3376

IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

SITE CIVIL
PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

LICENSED LANDSCAPE ARCHITECT — GREGORY J. CARLSON — 2969 — STATE OF MISSISSIPPI
02/07/2025

END USER
amazon

PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY (RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN PHASE 2 - ZONE 4

SHEET MANAGEMENT

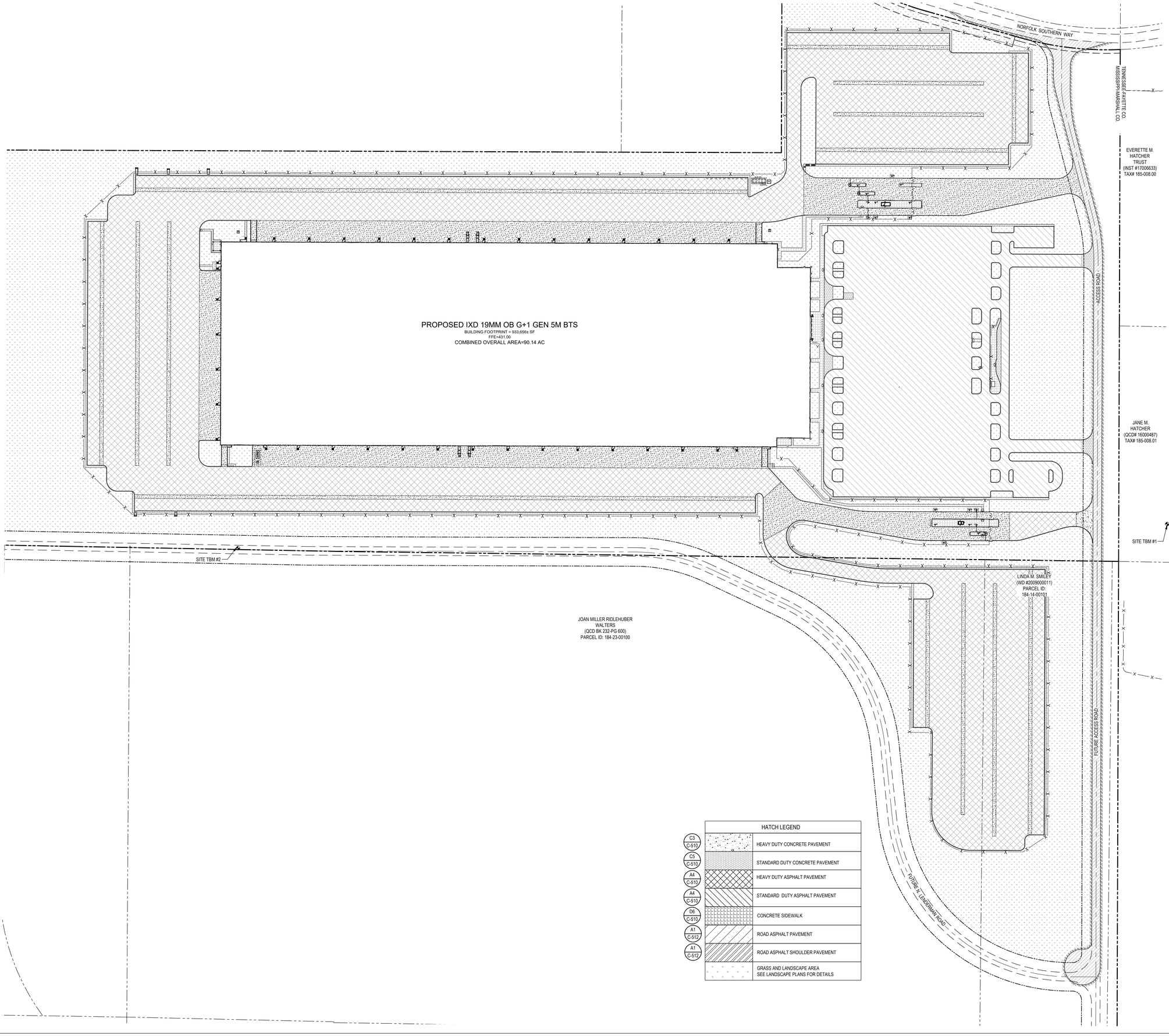
PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

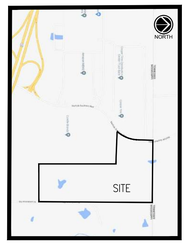
11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET, CD 85%
02 / 07 / 2025	100% PERMIT SET

SHEET NUMBER
C-159

Submittal Type – Working Documents



NORTH
0 50 100 200
1 INCH = 100 FEET



VICINITY MAP (NTS)

HATCH LEGEND	
C3 C-510	HEAVY DUTY CONCRETE PAVEMENT
C5 C-510	STANDARD DUTY CONCRETE PAVEMENT
A4 C-510	HEAVY DUTY ASPHALT PAVEMENT
A4 C-510	STANDARD DUTY ASPHALT PAVEMENT
D5 C-510	CONCRETE SIDEWALK
A1 C-512	ROAD ASPHALT PAVEMENT
A1 C-512	ROAD ASPHALT SHOULDER PAVEMENT
	GRASS AND LANDSCAPE AREA SEE LANDSCAPE PLANS FOR DETAILS

CONCRETE PAVING NOTES:

1. ALL CONCRETE PAVING SHALL MEET OR EXCEED THE REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION SPECIFICATIONS.
2. WHERE PRACTICAL CONCRETE PAVING CONTRACTION JOINTS SHALL BE SAWCUT BOTH WAYS ON A SQUARE GRID. CONSTRUCTION JOINTS SHALL BE PLACED BETWEEN ALL POURS.
3. A CONSTRUCTION JOINT SHALL BE INSTALLED AT A PLANNED JOINT WHEN PAVING OPERATIONS ARE INTERRUPTED FOR MORE THAN 30 MINUTES. IF THE INTERRUPTION OCCURS BETWEEN PLANNED JOINTS, THE FRESH CONCRETE SHALL BE REMOVED BACK TO THE PREVIOUSLY INSTALLED JOINT. UNLESS OTHERWISE APPROVED, NO JOINTS WILL BE ALLOWED BETWEEN THE JOINTS SHOWN ON THE JOINTING PLAN.
4. EDGES OF CONCRETE SLABS SHALL BE COVERED WITH AN APPROVED CURING MATERIAL AT THE SAME TIME AS THE SURFACE IS CURED. AT FORMED LOCATIONS, SLAB SIDES SHALL BE CURED WHEN FORMS ARE REMOVED.
5. CONCRETE SHALL BE PLACED IN ONE COURSE. ALL REINFORCING SHALL BE INSTALLED USING ENGINEER-APPROVED METHODS. THE REINFORCING SHALL RETAIN ITS SPECIFIED POSITION DURING CONCRETE PLACEMENT. REINFORCING VIBRATED DOWN FROM THE TOP AFTER CONCRETE IS PLACED WILL NOT BE ALLOWED.
6. CONCRETE PAVEMENT ELEVATIONS SHALL NOT DEVIATE FROM PLAN GRADES BY MORE THAN 0.5-INCH.
7. G.C. TO RESEAL ALL CONTROL JOINTS IN EXISTING CONCRETE PAVEMENT (FILL WITH BACKER ROD WHERE EXISTING OPENING IS TOO WIDE).
8. NEAR THE COMPLETION OF THE PROJECT, THE GC IS TO REPAIR ANY AREAS OF EXISTING AND NEWLY CONSTRUCTED PAVEMENTS DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COSTS TO THE OWNER.
9. CONCRETE SIDEWALK SHALL BE FLUSH WITH ADJACENT PANELS. CONCRETE SIDEWALK AND HANDICAP RAMPS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

ASPHALT PAVING NOTES

1. ASPHALT PAVEMENT SHALL MEET OR EXCEED THE REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION SPECIFICATIONS.
2. THE CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR ALL ASPHALT FOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL ALSO SUBMIT A LETTER FROM THE TESTING LAB CERTIFYING THAT THE SUBMITTED PAVEMENT SECTIONS MEET THE APPLICABLE REQUIREMENTS OF THE MDOT STANDARD CONSTRUCTION SPECIFICATIONS.
3. ALL ASPHALT AND BASE COURSE ELEVATIONS SHALL NOT DEVIATE FROM PLAN GRADES BY MORE THAN 1/2-INCH. THE THICKNESS OF THE BASE SHALL NOT DEVIATE FROM THE THICKNESS SHOWN ON THE PLANS BY MORE THAN PLUS 1-1/2 INCHES OR MINUS 0 INCHES. THE THICKNESS OF THE ASPHALT PAVING SECTIONS SHALL NOT DEVIATE FROM THE THICKNESS SHOWN ON THE PLANS BY MORE THAN PLUS 1 INCH OR MINUS 0 INCHES.
4. PAVEMENT SUBGRADES SHALL BE PER THE REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION FOR THIS SITE.
5. PROVIDE FIRE LANE STRIPING AND SIGNAGE AS REQUIRED BY LOCAL REQUIREMENTS.
6. NEAR THE COMPLETION OF THE PROJECT, THE GC IS TO REPAIR ANY AREAS OF EXISTING AND NEWLY CONSTRUCTED PAVEMENTS DAMAGED BY CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.

SITE TBM:

TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51

TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

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APPROVAL STAMP:

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CONSULTANT

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KRAEMER CONSULTING ENG PLLC
2050 W. WHISPERING WIND DR, STE 158
PHOENIX, AZ 85085
PH: 602.285.1669

FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
2400 MEADBROOK PKWAY, SUITE 250
DULUTH, GA 30096
PH: 770.564.3505

TELECOMMUNICATIONS CONSULTANTS
HARGIS ENGINEERS, INC
1201 THIRD AVENUE, SUITE 600
SEATTLE, WA 98101
PH: 206.448.3376

IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

SITE CIVIL
PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

ENGINEER 29969 STATE OF MISSISSIPPI
02/07/2025

END USER

amazon

PROJECT DESCRIPTION

2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION

GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE

OVERALL PAVING PLAN

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

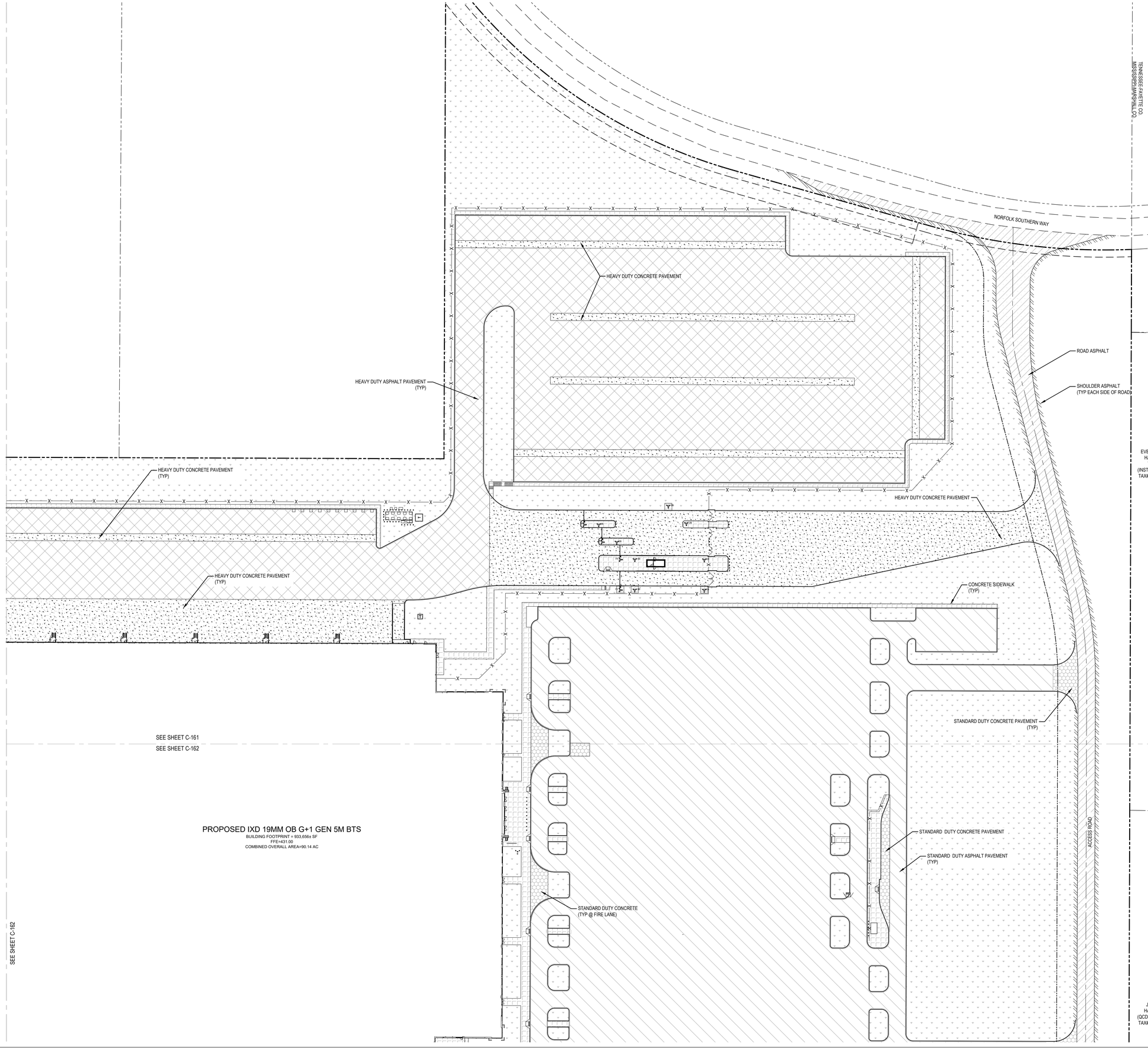
REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100%/ PERMIT SET

SHEET NUMBER

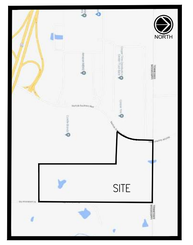
C-160

Submittal Type – Working Documents



NORTH
0 25 50 100
1 INCH = 50 FEET

NOTE:
SEE SHEET C-160 FOR PAVING NOTES.



VICINITY MAP (NTS)

HATCH LEGEND	
C3 C-510	HEAVY DUTY CONCRETE PAVEMENT
C5 C-510	STANDARD DUTY CONCRETE PAVEMENT
A4 C-510	HEAVY DUTY ASPHALT PAVEMENT
A4 C-510	STANDARD DUTY ASPHALT PAVEMENT
D6 C-510	CONCRETE SIDEWALK
A1 C-512	ROAD ASPHALT PAVEMENT
A1 C-512	ROAD ASPHALT SHOULDER PAVEMENT
	GRASS AND LANDSCAPE AREA SEE LANDSCAPE PLANS FOR DETAILS

SITE TBM:
TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51
TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE PLATTED PROPERTY SHOWN HEREON IS NOT IN A SPECIAL FLOOD HAZARD AREA (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE SUBJECT PROPERTY IS SHOWN IN A "ZONE X (NO SHADING ON FEMA/FIRM MAP): AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO THE FEMA/FIRM MAP NUMBER 28093C0050D WITH AN EFFECTIVE DATE OF 05/04/2021.

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER

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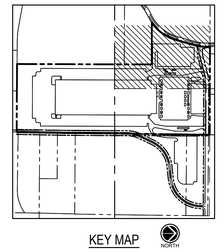

KEY MAP

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

SM DESIGN & CONSULTING, PC
855 Bloomfield Avenue, Suite 220
Glen Ridge, NJ 07028
Telephone 973-259-9500
www.smdcpc.com

CONSULTANT
SHIRK & O'DONOVAN CONSULTING ENGINEERS

STRUCTURAL CONSULTANTS
SHIRK & O'DONOVAN CONSULTING ENGINEERS, INC
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Engineering
Planning · Surveying

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6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL
ENGINEER 29969 STATE OF MISSISSIPPI
02/07/2025

END USER
amazon

PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
PAVING PLAN - ZONE 1

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER
C-161

Submittal Type – Working Documents

HEAVY DUTY ASPHALT PAVEMENT (TYP)

HEAVY DUTY CONCRETE PAVEMENT (TYP)

HEAVY DUTY CONCRETE PAVEMENT (TYP)

ROAD ASPHALT

SHOULDER ASPHALT (TYP EACH SIDE OF ROAD)

HEAVY DUTY CONCRETE PAVEMENT

CONCRETE SIDEWALK (TYP)

STANDARD DUTY CONCRETE PAVEMENT (TYP)

STANDARD DUTY CONCRETE PAVEMENT

STANDARD DUTY ASPHALT PAVEMENT (TYP)

STANDARD DUTY CONCRETE (TYP @ FIRE LANE)

ACCESS ROAD

EVERETTE M. HATCHER TRUST (INST #17006633) TAX# 185-008.00

JANE M. HATCHER (QCD# 16000487) TAX# 185-008.01

SEE SHEET C-161

SEE SHEET C-162

SEE SHEET C-163

SEE SHEET C-162

SEE SHEET C-162

SEE SHEET C-164

PROPOSED IXD 19MM OB G+1 GEN 5M BTS

BUILDING FOOTPRINT = 933,656± SF

FFE=431.00

COMBINED OVERALL AREA=90.14 AC

HEAVY DUTY CONCRETE PAVEMENT (TYP)

CONCRETE SIDEWALK (TYP)

HEAVY DUTY CONCRETE PAVEMENT (TYP)

SHOULDER ASPHALT (TYP EACH SIDE OF ROAD)

ROAD ASPHALT

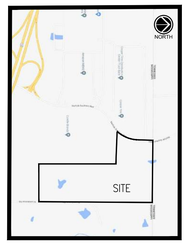
LINDA M. SMILEY (WD #2009000011) PARCEL ID: 184-14-00101

NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-160 FOR PAVING NOTES.



VICINITY MAP (NTS)

	HATCH LEGEND
C3 C-510	HEAVY DUTY CONCRETE PAVEMENT
C5 C-510	STANDARD DUTY CONCRETE PAVEMENT
A4 C-510	HEAVY DUTY ASPHALT PAVEMENT
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D6 C-510	CONCRETE SIDEWALK
A1 C-512	ROAD ASPHALT PAVEMENT
A1 C-512	ROAD ASPHALT SHOULDER PAVEMENT
	GRASS AND LANDSCAPE AREA SEE LANDSCAPE PLANS FOR DETAILS

SITE TBM:

TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51

TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

FLOOD NOTE:

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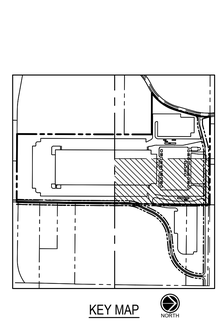

KEY MAP

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

.

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

SM DESIGN & CONSULTING, PC
855 Bloomfield Avenue, Suite 220
Glen Ridge, NJ 07028
Telephone 973-259-9500
www.smdcpc.com

CONSULTANT

STRUCTURAL CONSULTANTS
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IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

SITE CIVIL
PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
PH: 901.726.0810

SEAL

END USER

PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
PAVING PLAN - ZONE 2

SHEET MANAGEMENT

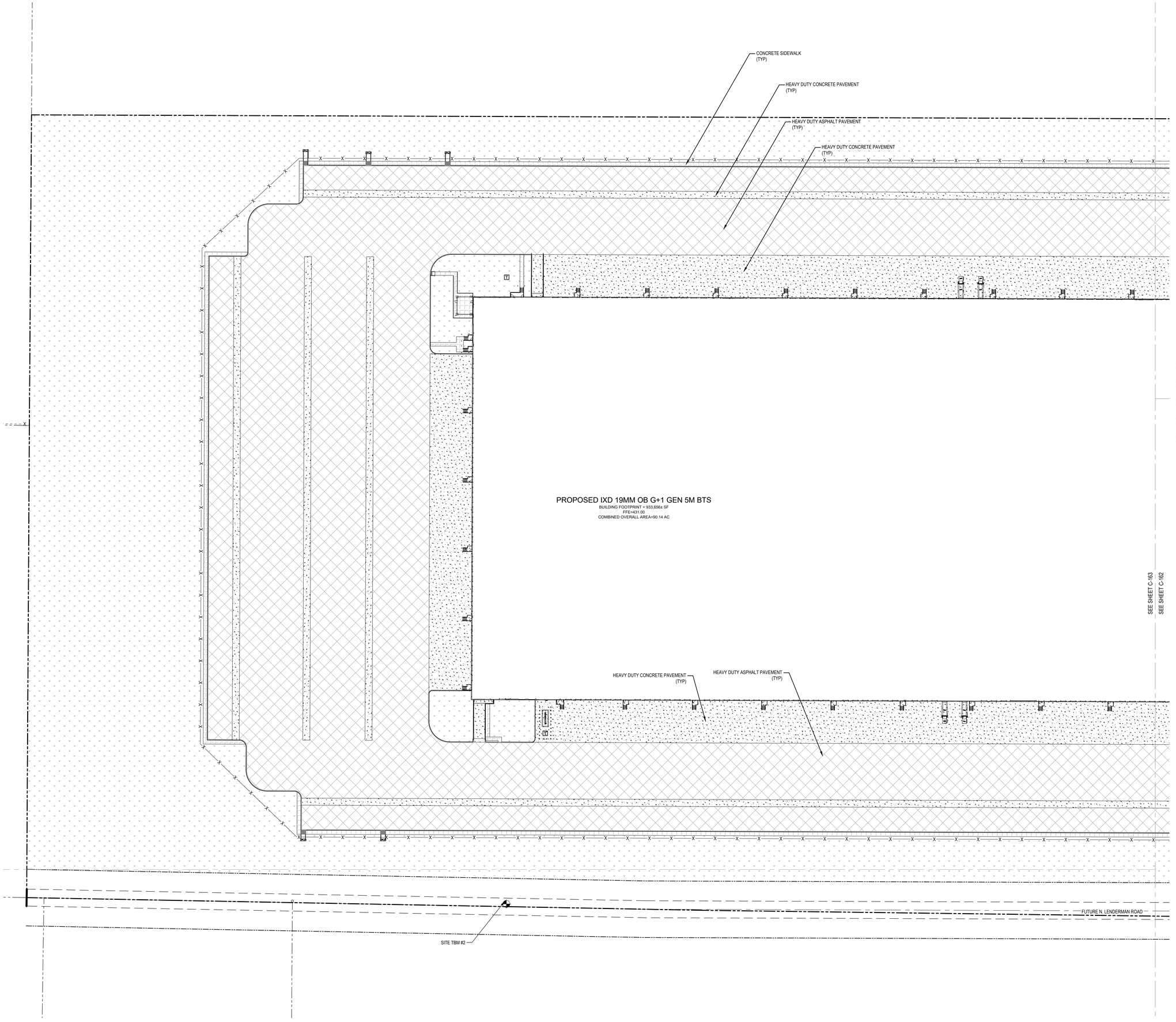
PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER
C-162

Submittal Type – Working Documents

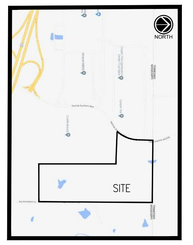


NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
SEE SHEET C-160 FOR PAVING NOTES.



VICINITY MAP (NTS)

	HATCH LEGEND
C3 C-510	HEAVY DUTY CONCRETE PAVEMENT
C5 C-510	STANDARD DUTY CONCRETE PAVEMENT
A4 C-510	HEAVY DUTY ASPHALT PAVEMENT
A4 C-510	STANDARD DUTY ASPHALT PAVEMENT
D6 C-510	CONCRETE SIDEWALK
A1 C-512	ROAD ASPHALT PAVEMENT
A1 C-512	ROAD ASPHALT SHOULDER PAVEMENT
	GRASS AND LANDSCAPE AREA SEE LANDSCAPE PLANS FOR DETAILS

SITE TBM:
TBM #1:
NAIL SET AT TRAVERSE POINT NORTH OF SUBJECT PROPERTY AS SHOWN.
N: 2000084.12 E: 758498.72
ELEV: 407.51
TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
ELEV: 422.98

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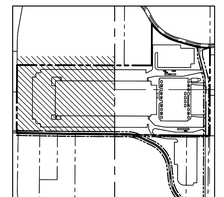

KEY MAP

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

CDP DEVELOPMENT, Inc
ONE MUSIC SQUARE SOUTH, SUITE 110
NASHVILLE, TN 37203

SM DESIGN & CONSULTING, PC
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CONSULTANT

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MEP CONSULTANTS
KRAEMER CONSULTING ENG PLLC
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PHOENIX, AZ 85085
PH: 602.285.1669

harrington group
Atlanta, GA • Charlotte, NC

FIRE PROTECTION CONSULTANTS
HARRINGTON GROUP, INC
2400 MEADBROOK PKWAY, SUITE 250
DULUTH, GA 30096
PH: 770.564.3505

HARGIS

TELECOMMUNICATIONS CONSULTANTS
HARGIS ENGINEERS, INC
1201 THIRD AVENUE, SUITE 600
SEATTLE, WA 98101
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IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

Pickering
Pickering Firm, Inc.
Engineering
Planning · Surveying

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PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
MEMPHIS, TN 38119
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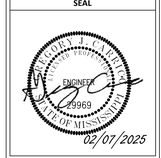
SEAL



END USER

amazon

PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
Gateway Global logistics center
RAIL TO ROAD
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
PAVING PLAN - ZONE 3

SHEET MANAGEMENT

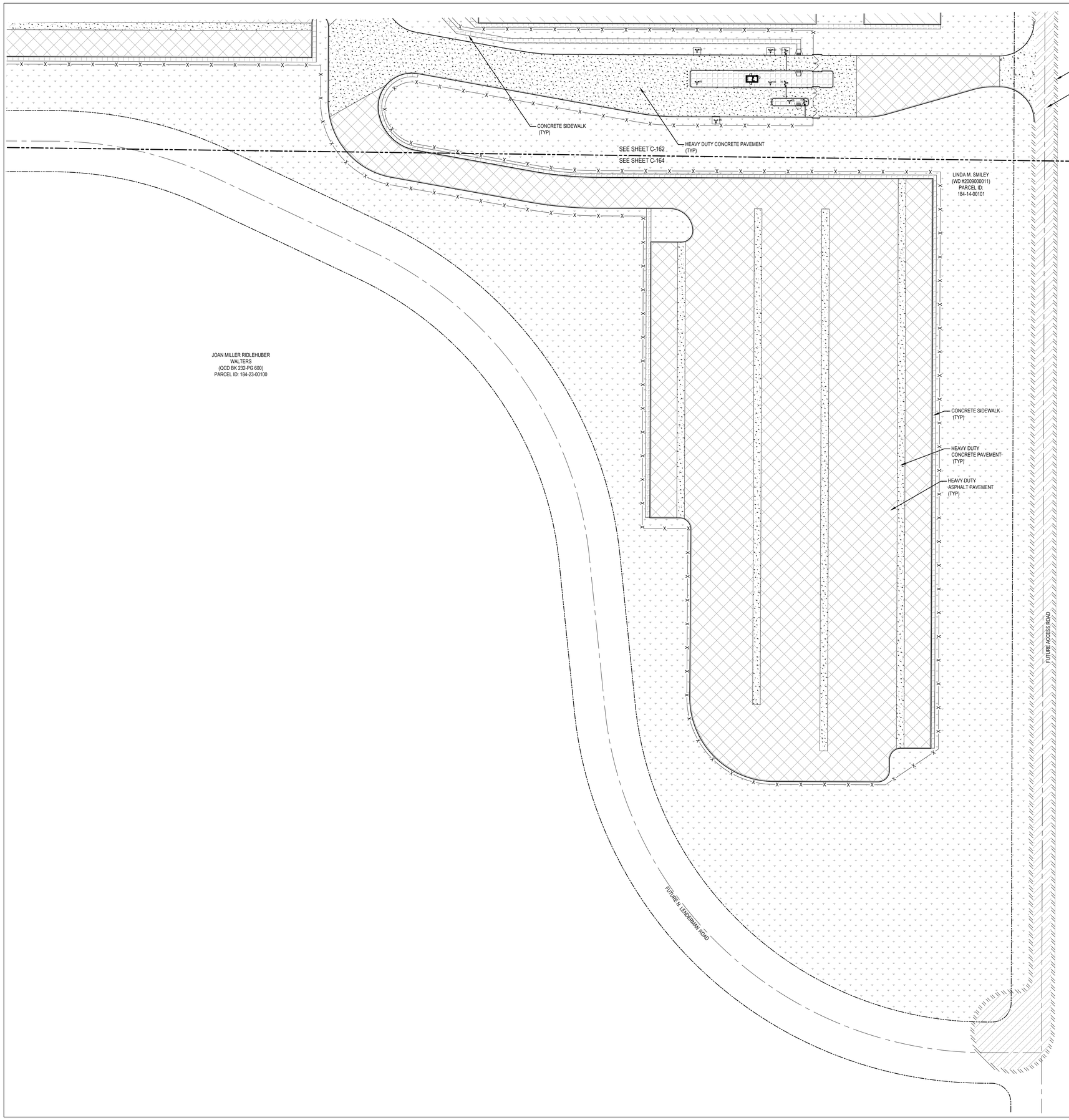
PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER
C-163

Submittal Type - Working Documents



NORTH

0 25 50 100

1 INCH = 50 FEET

NOTE:
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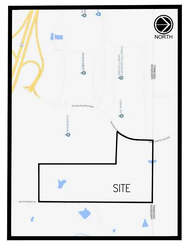

VICINITY MAP (NTS)

	HATCH LEGEND
C3 C-510	HEAVY DUTY CONCRETE PAVEMENT
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A4 C-510	HEAVY DUTY ASPHALT PAVEMENT
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SITE TBM:
TBM #1:
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N: 2000084.12 E: 758498.72
ELEV: 407.51
TBM #2:
NAIL SET AT TRAVERSE POINT ON THE CENTERLINE SIDE OF NORTH LENDERMAN ROAD AS SHOWN.
N:1997480.59 E: 758566.37
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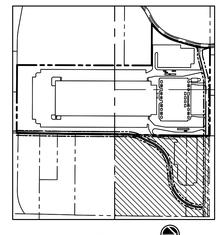

KEY MAP NORTH

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harrington group

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HARGIS

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SEATTLE, WA 98101
PH: 206.448.3376

IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

Pickering
Pickering Firm, Inc.
Engineering
Planning · Surveying

SITE CIVIL
PICKERING FIRM, INC.
6363 POPLAR AVE., SUITE 300
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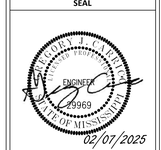
SEAL



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amazon

PROJECT DESCRIPTION

2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION

Gateway Global logistics center
RAIL TO ROAD

GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE

PAVING PLAN - ZONE 4

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET: CD 85%
02 / 07 / 2025	100% / PERMIT SET

SHEET NUMBER

C-164

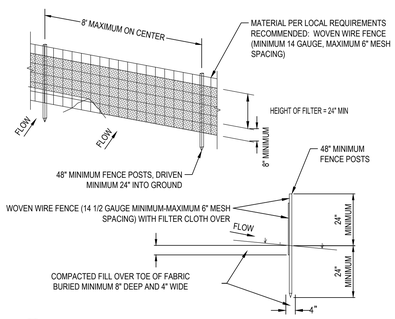
Submittal Type - Working Documents

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO SILT FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
3. WHEN TWO SECTIONS OR FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY (6) INCHES AND FOLDED.
4. LOCATE POSTS DOWNSLOPE OF FABRIC FOR FENCE SUPPORT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

   POSTS: STEEL EITHER "T" OR "U" TYPE
   POSTS: LOCATED MAXIMUM 8' OC
   FENCE: PER LOCAL REQUIREMENTS OR WOVEN WIRE, 14 GA 6" MAX MESH OPENING
   FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL.
   PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

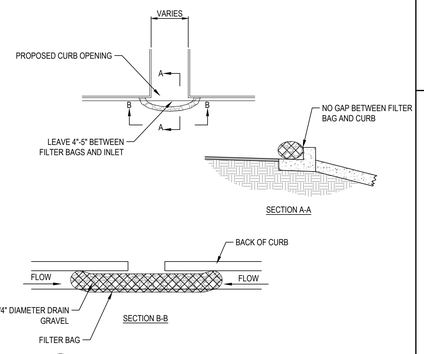
6. INDICATED ON EROSION CONTROL PLANS AS " _____ SF _____ ".



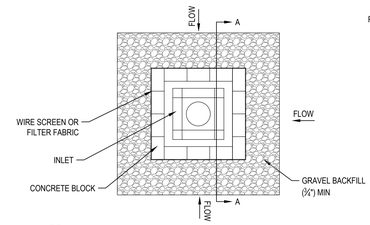
SF SILT FENCE EROSION PROTECTION
NOT TO SCALE

NOTES:
TO PREVENT DAMAGES TO VEHICLES, SIGNS WARNING DRIVERS ABOUT THE STRUCTURES MAY BE NECESSARY.

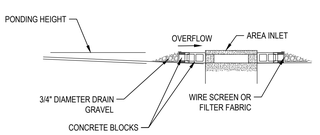
MAINTENANCE:
ALL CURB OPENING GRAVEL FILTERS SHALL BE INSPECTED AND REPAIRED AFTER EACH RUNOFF EVENT. SEDIMENT DEPOSITS ARE TO BE REMOVED ONCE MATERIAL IS WITHIN 8 CM (3 INCHES) OF THE TOP OF ANY BLOCK. PERIODICALLY, THE GRAVEL SHALL BE RAKED TO INCREASE INFILTRATION AND FILTERING OF RUNOFF WATERS. ACCUMULATED SEDIMENT IS TO BE REMOVED IMMEDIATELY FROM ROADS AND STREETS.



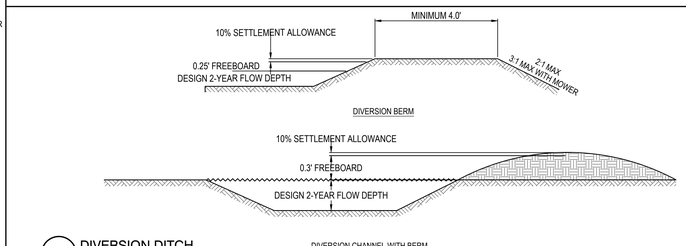
COP CURB OPENING PROTECTION
NOT TO SCALE



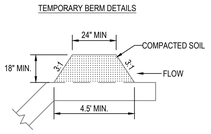
IP BLOCK AND GRAVEL INLET PROTECTION
NOT TO SCALE



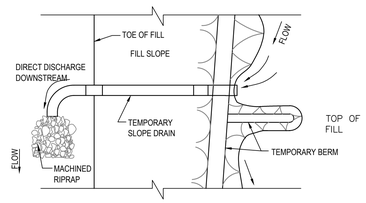
NOTES:
1. PLACE CONCRETE BLOCK ON THEIR SIDE, LENGTHWISE AROUND INLET, SO THAT ALL ENDS ARE ABUTTING.
2. HEIGHT CAN BE VARIED BY STACKING BLOCKS BUT SHOULD BE BETWEEN 12" AND 24" IN HEIGHT. COVER OUTSIDE FACE OF BLOCKS WITH WIRE MESH



DD DIVERSION DITCH
NOT TO SCALE



TEMPORARY SLOPE DRAIN SIZES		
NO.	PIPE DIA.	DRAINAGE AREA



SD SLOPE DRAIN
NOT TO SCALE

MARSHALL COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY
APPROVAL STAMP:

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IN COORDINATION WITH DEVELOPER'S CONSULTANT WORKING IN PARALLEL:

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SEAL

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PROJECT DESCRIPTION
2026 IXD GENSM
CROSS-DOCK WAREHOUSE FACILITY
(RECEIPT & REDISTRIBUTION)

PROJECT LOCATION
GATEWAY GLOBAL LOGISTICS CENTER
BYHALIA, MISSISSIPPI 38611
MARSHALL COUNTY

SHEET TITLE
EROSION AND SEDIMENT CONTROL DETAILS

SHEET MANAGEMENT

PROJECT NO.:	25620.06
DATE ISSUED:	02/07/2025
DRAWN BY:	PFI
REVIEWED BY:	GJC

REVISION SCHEDULE

11 / 08 / 2024	30% Schematic Design
12 / 05 / 2024	60% DD (BID)
01 / 08 / 2025	REVIEW SET, CD 85%
02 / 07 / 2025	100%/ PERMIT SET

SHEET NUMBER
C-550

Submittal Type – Working Documents

DEFINITION- A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE- TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.

CONDITIONS WHERE PRACTICE APPLIES- WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVE DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREA.

CE CONSTRUCTION EGRESS W/WASH DOWN
NOT TO SCALE

PLANNING CONSIDERATIONS- GENERAL CRITERIA REQUIRES THAT ROADS ADJACENT TO A CONSTRUCTION SITE SHALL BE CLEAN AT THE END OF EACH DAY. CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM CONSTRUCTION VEHICLE TIRES BEFORE THEY ENTER A PUBLIC ROAD. IF THE ACTION OF VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE. CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES.

DESIGN CRITERIA
1. AGGREGATE SIZE- MDOT AGGREGATE (2-3 INCH STONE) SHOULD BE USED.
2. ENTRANCE DIMENSIONS- THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
3. WASHING- IF CONDITIONS ON THE SITE ARE SUCH THAT THE MAJORITY OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE GRAVEL, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
4. LOCATION- THE ENTRANCE SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.

CONSTRUCTION SPECIFICATIONS- THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANEST OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORMDRAINS MUST BE REMOVED IMMEDIATELY.

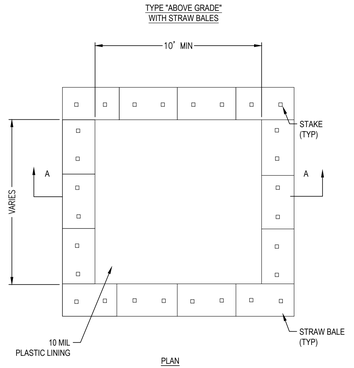
NOTES:
1. ANCHORING STAKES SHALL BE SIZED AND SPACED PER MANUFACTURER RECOMMENDATION (3' MAX).
2. OVERLAP ENDS OF SEDIMENT LOG PER MANUFACTURER'S RECOMMENDATIONS (2' MIN).
3. TRENCHING OF SEDIMENT LOG MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
4. IN THE EVENT SEDIMENT LOGS CANNOT BE SECURED IN PLACE USING STAKES, SANDBAGS OR OTHER MANUFACTURER RECOMMENDED METHOD SHALL BE USED TO SECURE LOGS IN PLACE

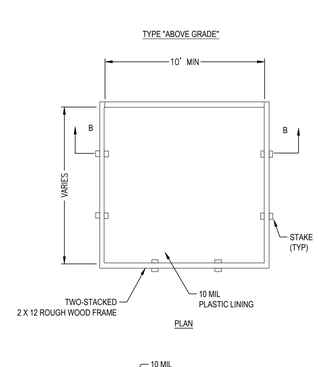
CIP SEDIMENT LOG CURB INLET PROTECTION
NTS

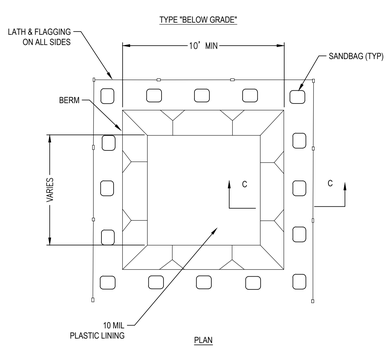
CD ROCK CHECK DAM
NOT TO SCALE

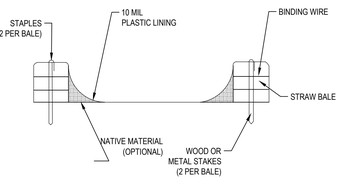
NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OF TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

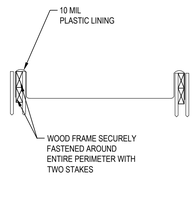
OP RIPRAP OUTLET PROTECTION
NOT TO SCALE

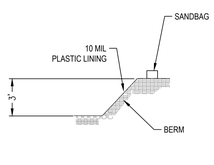












NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CW CONCRETE WASHOUT
NOT TO SCALE

VEGETATION SCHEDULE						
EROSION CONTROL ITEMS		SEASONAL APPLICATIONS-DATES & RATES				REQUIREMENTS
		SPRING & SUMMER		FALL & WINTER		
PAY ITEM NO.	ITEMS	RATES	DATES	RATES	DATES	
⑥ 211-B001	TOPSOIL FOR SLOPE TREATMENT (LVM)	4" THICK	MARCH 1 TO SEPTEMBER 1	4" THICK	SEPTEMBER 1 TO MARCH 1	TOPSOIL REQUIRED ON SLOPE AREAS (SANDY) SELECTED BY THE ENGINEER DURING CONSTRUCTION.
907-225-A001	STANDARD GROUND PREPARATION	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ.YD.	SEPTEMBER 1 TO MARCH 1	GROUND PREPARATION REQUIRED ON AREAS TO RECEIVE SOLID SODDING OR SEEDING, AS APPLICABLE.
⑦ 907-225-B001	AGRICULTURAL LIMESTONE	3 TONS/ACRE	MARCH 1 TO SEPTEMBER 1	3 TONS/ACRE	SEPTEMBER 1 TO MARCH 1	LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING.
907-225-A001	COMBINATION FERTILIZER (13-13-13)	1000 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	1000 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	FERTILIZER SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING.
① 213-C001	SUPERPHOSPHATE	0.5 TONS/ACRE (EST.)	MARCH 1 TO DECEMBER 1			SUPERPHOSPHATE (FOR BID ITEM PURPOSES) .
② 907-225-A001	SEEDING (BERMUDAGRASS)	20 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	20 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS. UNHULLED SEED MAY BE REQUIRED DURING THE DORMANT SEASON AS DIRECTED.
③ ⑤ 907-225-A001	SEEDING (BAHIAGRASS)	25 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	25 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	SEED REQUIRED ON DISTURBED AREAS.
④ 907-225-A001	SEEDING (TALL FESCUE)	25 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	25 LBS./ACRE	AUGUST 1 TO APRIL 1	SEED REQUIRED ON DISTURBED AREAS.
⑧ 907-225-A001	SEEDING (SERICEA LESPEDEZA)	25 LBS./ACRE	MARCH 1 TO SEPTEMBER 1	25 LBS./ACRE	SEPTEMBER 1 TO MARCH 1	SEE NOTE ⑧ BELOW.
③ 907-225-A001	SEEDING (CRIMSON CLOVER)	_____	_____	20 LBS./ACRE	AUGUST 1 TO APRIL 1	SEED REQUIRED ON DISTURBED AREAS.
215-A001	VEGETATIVE MATERIAL FOR MULCH	2 TONS ACRE (EST.)	MARCH 1 TO SEPTEMBER 1	2 TONS/ACRE (EST.)	SEPTEMBER 1 TO MARCH 1	THE ENGINEER WILL DESIGNATE THE RATES OF APPLICATION (SEE SUBSECTION 215.03.3) .
216-A001	SOLID SODDING	PER SQ.YD.	MARCH 1 TO SEPTEMBER 1	PER SQ. YD.	SEPTEMBER 1 TO MARCH 1	SOLID SOD REQUIRED ON AREAS SPECIFIED IN THE CONTRACT OR BY THE ENGINEER.
219-A001	WATERING	20 GALS./S.Y. (EST.)	MARCH 1 TO SEPTEMBER 1	20 GALS. S.Y. (EST.)	SEPTEMBER 1 TO MARCH 1	TO BE USED AS DIRECTED IN THE PLANTING AND ESTABLISHING SOLID SOD.
⑥ 220-A001	INSECT PEST CONTROL	PER ACRE		PER ACRE		SEE SECTION 220.
	TEMPORARY EROSION CONTROL ITEMS:					
907-226-A001	LIGHT GROUND PREPARATION	PER SQ.YD.		PER SQ.YD.		APPROXIMATELY HALF SQ. YD. STANDARD GROUND PREPARATION
907-226-A001	COMINATION FERTILIZER (13-13-13)	0.25 TONS/ACRE		0.25 TONS/ACRE		QUANTITY BASED ON LIGHT GROUND PREPARATION
907-226-A001	SEEDING (BROWN TOP MILLET)	20 LBS./ACRE	APRIL 1 TO AUGUST 31	_____	_____	QUANTITY BASED ON LIGHT GROUND PREPARATION
907-226-A001	SEEDING (RYE GRASS)	_____	_____	25 LBS./ACRE	SEPTEMBER 1 TO MARCH 31	QUANTITY BASED ON LIGHT GROUND PREPARATION
907-226-A001	SEEDING (OATS)	_____	_____	90 LBS./ACRE	SEPTEMBER 1 TO DECEMEBER 15	QUANTITY BASED ON LIGHT GROUND PREPARATION
907-226-A001	VEGETATIVE MATERIAL FOR MULCH	2 TON /ACRE (EST.)		2 TON /ACRE (EST.)		QUANTITY BASED ON LIGHT GROUND PREPARATION

① ALL AREAS THAT HAVE BEEN VEGETATED, UNDER THIS CONTRACT FOR AT LEAST (60) SIXTY DAYS, SHALL RECEIVE ADDITIONAL APPLICATION(S) OF FERTILIZER(S) OF THE TYPE(S) AND RATE(S) OF APPLICATIONS AS DETERMINED BY SOIL TESTS OR AS DIRECTED DURING THE GROWING SEASONS THE CONTRACT IS IN FORCE. GROUND PREPARATION WILL NOT BE REQUIRED FOR THE ADDITIONAL APPLICATIONS. PAYMENT FOR ALL FERTILIZERS ACCEPTABLY APPLIED AS AN ADDITIONAL APPLICATION(S) WILL BE MADE IN ACCORDANCE WITH SUPERPHOSPHATE BID ITEM 213-C001.

② PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 100% OF THE ACREAGE WILL BE SEEDED.

③ PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE WILL BE SEEDED.

⑤ THIS ITEM TO BE OMITTED ON AREAS WITHIN 30' FROM EDGE OF PAVEMENT.

⑥ QUANTITY ESTIMATED ON THE BASIS 50% OF THE ACREAGE VEGETATED MAY REQUIRE TREATMENT.

④ PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE SEEDED MAY REQUIRE TOPSOIL.

⑦ THE ACTUAL RATE/ACRE TO BE DETERMINED BY SOIL TEST DURING CONSTRUCTION.

⑧ SOW, IN ADDITION TO OTHER SPECIFIED SEEDS, ON HIGH FILL AND BACKSLOPE AREAS SELECTED BY ENGINEERS DURING CONSTRUCTION. PROPOSAL QUANTITIES ESTIMATED ON THE BASIS THAT 50% OF THE ACREAGE WILL BE SEEDED.

INSTRUCTIONS FOR COMPLETING THE VEGETATION SCHEDULE

TOPSOIL - THE NEED FOR TOPSOIL IS DETERMINED FROM THE ORIGINAL SOIL PROFILE BORINGS OR FIELD INSPECTION. IF NOT NEEDED TOPSOIL WILL NOT APPEAR ON SCHEDULE. IF EXTREMELY ACID SOILS ARE ENCOUNTERED 8" THICK TOPSOIL IS NORMALLY REQUIRED. IF THERE ARE ONLY A FEW CUT SECTIONS INDICATING A NEED FOR TOPSOIL YOU MAY WANT TO LIST STATION LIMITS INSTEAD OF A PERCENT OF THE ACREAGE TO BE SEEDED TO OBTAIN AN ESTIMATED PROPOSAL QUANTITY.

AGRICULTURAL LIMESTONE - NOTE 7 BELOW WOULD ONLY BE REQUIRED ON PROJECTS WITHIN EXTREMELY ACID SOIL AREAS.

SERICEA LESPEDEZA - ITEM 8 REQUIRED ONLY ON PROJECTS WITH DEEP CUT AND FILL SLOPE (MINIMUM 15' DEPTH).

DISTRICT 1 OR 2
VEGETATION SCHEDULE

PS PERMANENT AND TEMPORARY SEEDING
NOT TO SCALE

Appendix D
Hydrograph Reports

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

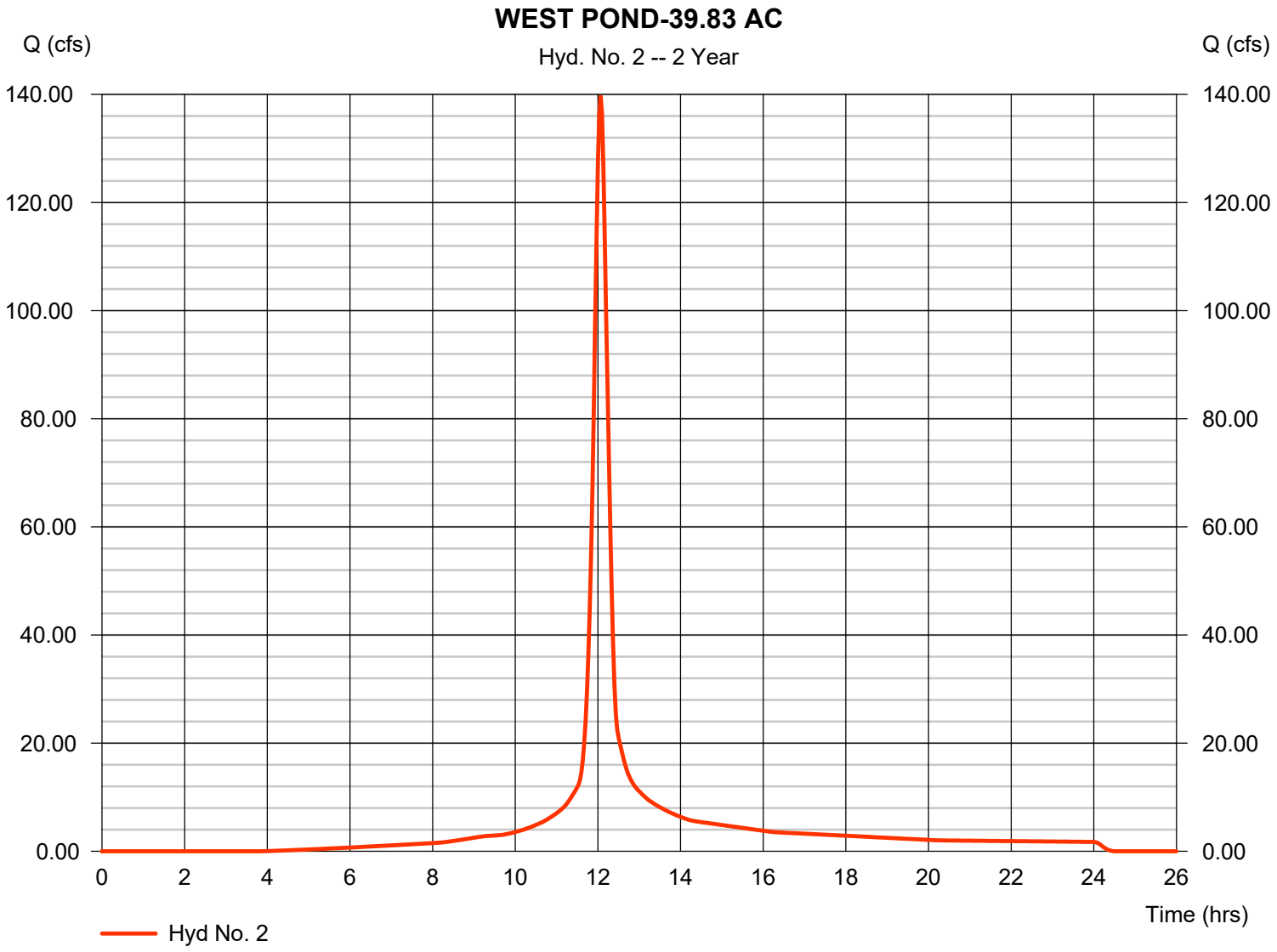
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
2	SCS Runoff	139.81	2	724	452,141	------	------	------	WEST POND-39.83 AC
3	Reservoir	23.32	2	748	229,266	2	423.62	269,766	W POND
4	SCS Runoff	88.56	2	722	258,548	------	------	------	N POND-23.36 AC
5	Combine	88.56	2	722	487,814	3, 4	------	------	N POND TOTAL - 63.19AC
6	Reservoir	18.96	2	796	293,024	5	412.85	230,117	N POND ROUTE
7	SCS Runoff	75.40	2	722	220,142	------	------	------	E POND-19.89 AC
8	Reservoir	2.761	2	854	67,297	7	422.36	162,717	E POND ROUTE
9	SCS Runoff	16.96	2	718	40,866	------	------	------	NE POND-3.6 AC
10	Combine	16.96	2	718	108,163	8, 9	------	------	NE POND INFLOW-23.49 AC
11	Reservoir	13.19	2	722	108,161	10	401.27	4,457	NE POND ROUTE
12	SCS Runoff	7.907	2	718	15,827	------	------	------	N DIRECT-2.9 AC
15	SCS Runoff	73.56	2	722	212,975	------	------	------	TRAILER N POND - 19.88 AC
16	Combine	86.75	2	722	614,160	6, 11, 15	------	------	TOTAL TO TP POND
17	Reservoir	16.19	2	884	362,269	16	393.54	283,644	TRAILER POND ROUTE
19	SCS Runoff	67.96	2	720	183,909	------	------	------	S POND-15.71
20	Reservoir	0.671	2	1442	32,703	19	423.32	170,871	S POND ROUTE

Hydrograph Report

Hyd. No. 2

WEST POND-39.83 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	139.81 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.07 hrs
Time interval	=	2 min	Hyd. volume	=	452,141 cuft
Drainage area	=	39.830 ac	Curve number	=	92
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	20.00 min
Total precip.	=	4.01 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484



Hydrograph Report

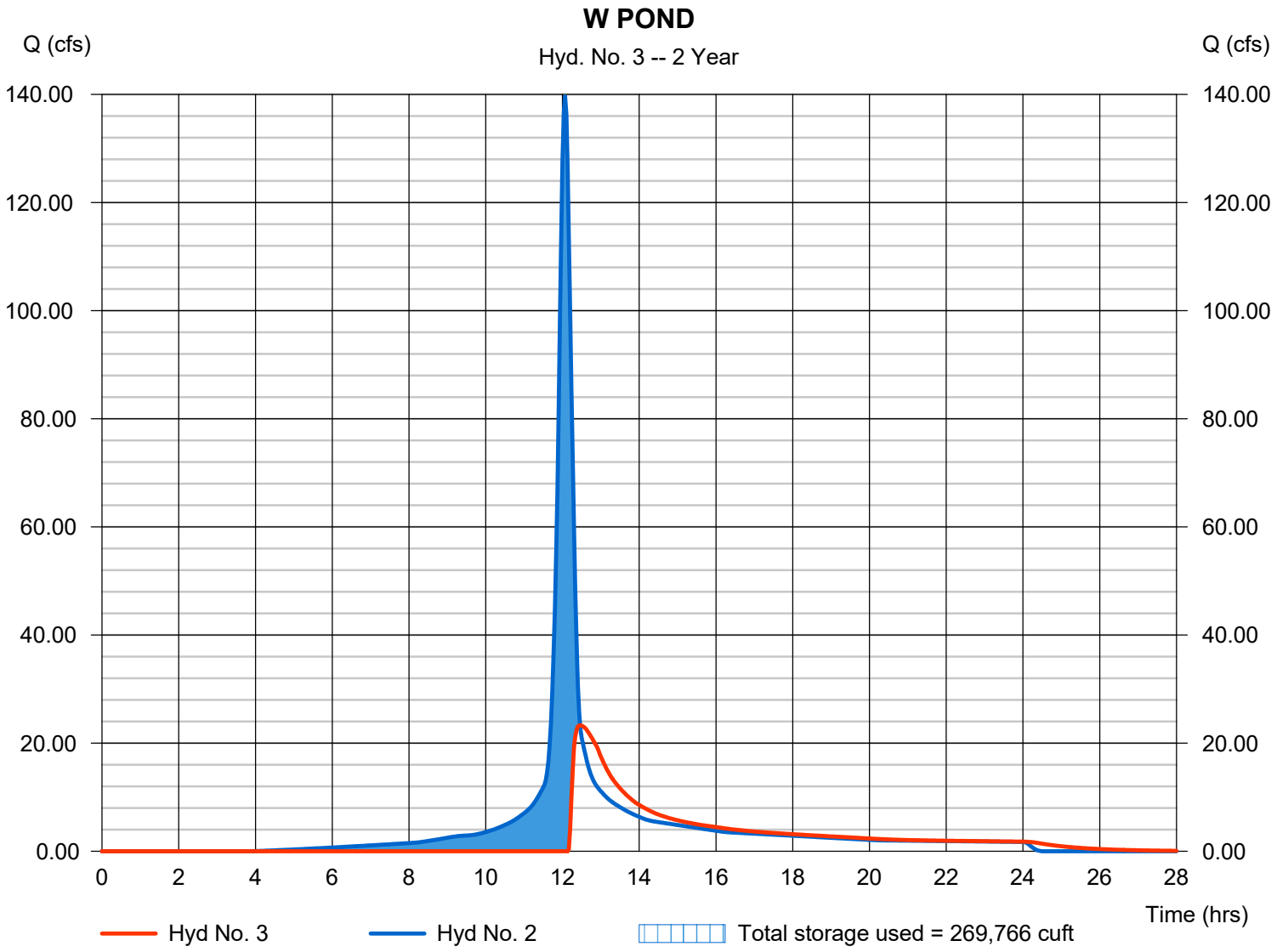
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025 Thursday, 03 / 6 / 2025

Hyd. No. 3

W POND

Hydrograph type	=	Reservoir	Peak discharge	=	23.32 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.47 hrs
Time interval	=	2 min	Hyd. volume	=	229,266 cuft
Inflow hyd. No.	=	2 - WEST POND-39.83 AC	Max. Elevation	=	423.62 ft
Reservoir name	=	W POND	Max. Storage	=	269,766 cuft

Storage Indication method used.



Pond Report

Pond No. 9 - W POND

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 415.86 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	415.86	00	0	0
0.14	416.00	950	44	44
1.14	417.00	4,375	2,454	2,498
2.14	418.00	10,326	7,140	9,638
3.14	419.00	21,347	15,505	25,143
4.14	420.00	35,624	28,179	53,323
5.14	421.00	53,157	44,094	97,417
6.14	422.00	62,890	57,950	155,367
7.14	423.00	72,239	67,504	222,871
8.14	424.00	79,736	75,949	298,820
9.14	425.00	89,047	84,340	383,160

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 42.00	Inactive	6.00	0.00
Span (in)	= 42.00	24.00	48.00	0.00
No. Barrels	= 1	1	4	0
Invert El. (ft)	= 415.86	415.86	423.00	0.00
Length (ft)	= 54.00	0.00	0.00	0.00
Slope (%)	= 0.33	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

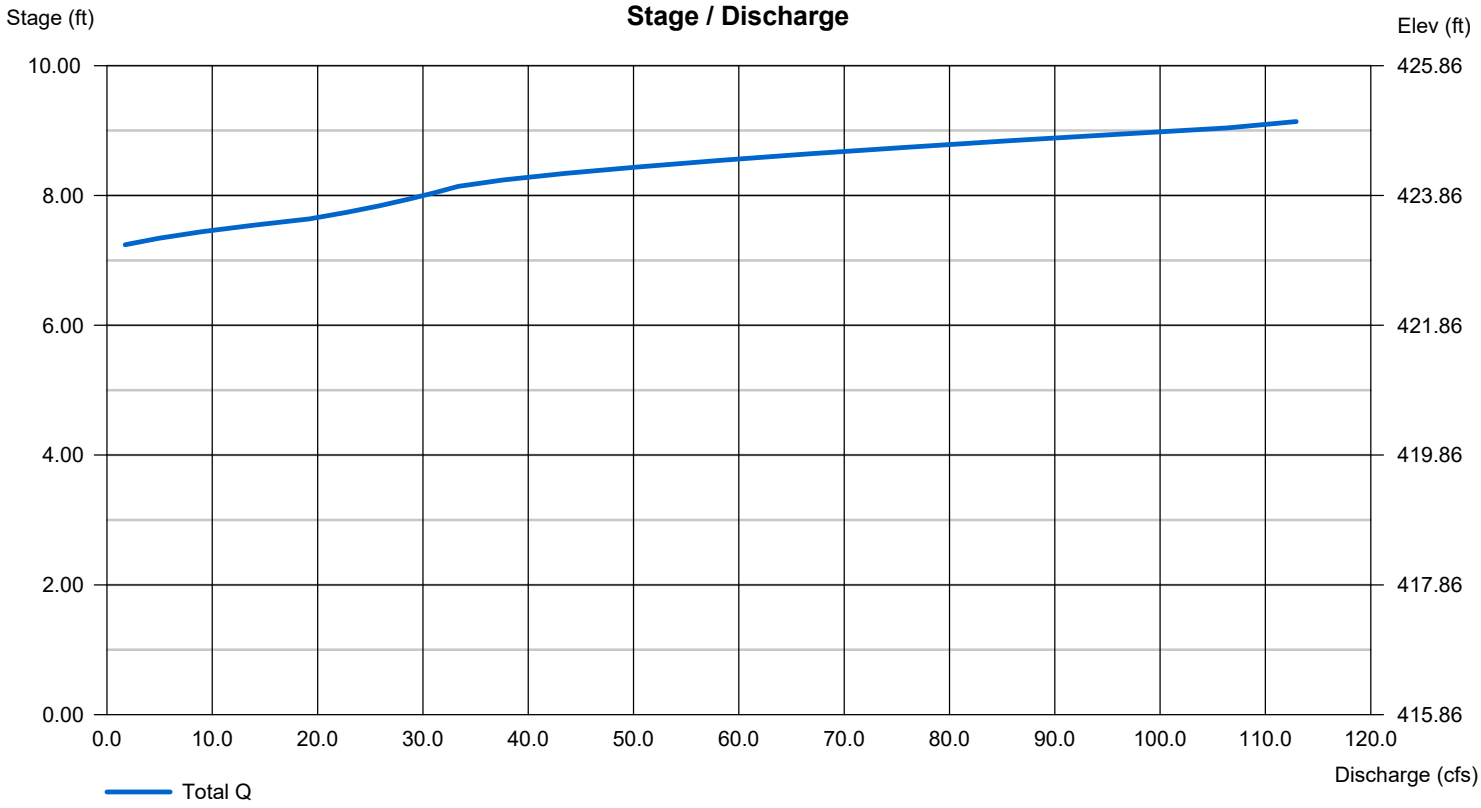
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 20.00	0.00	0.00	0.00
Crest El. (ft)	= 424.00	0.00	0.00	0.00
Weir Coeff.	= 3.33	3.33	3.33	3.33
Weir Type	= 1	---	---	---
Multi-Stage	= Yes	No	No	No

Exfil.(in/hr) = 0.000 (by Contour)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



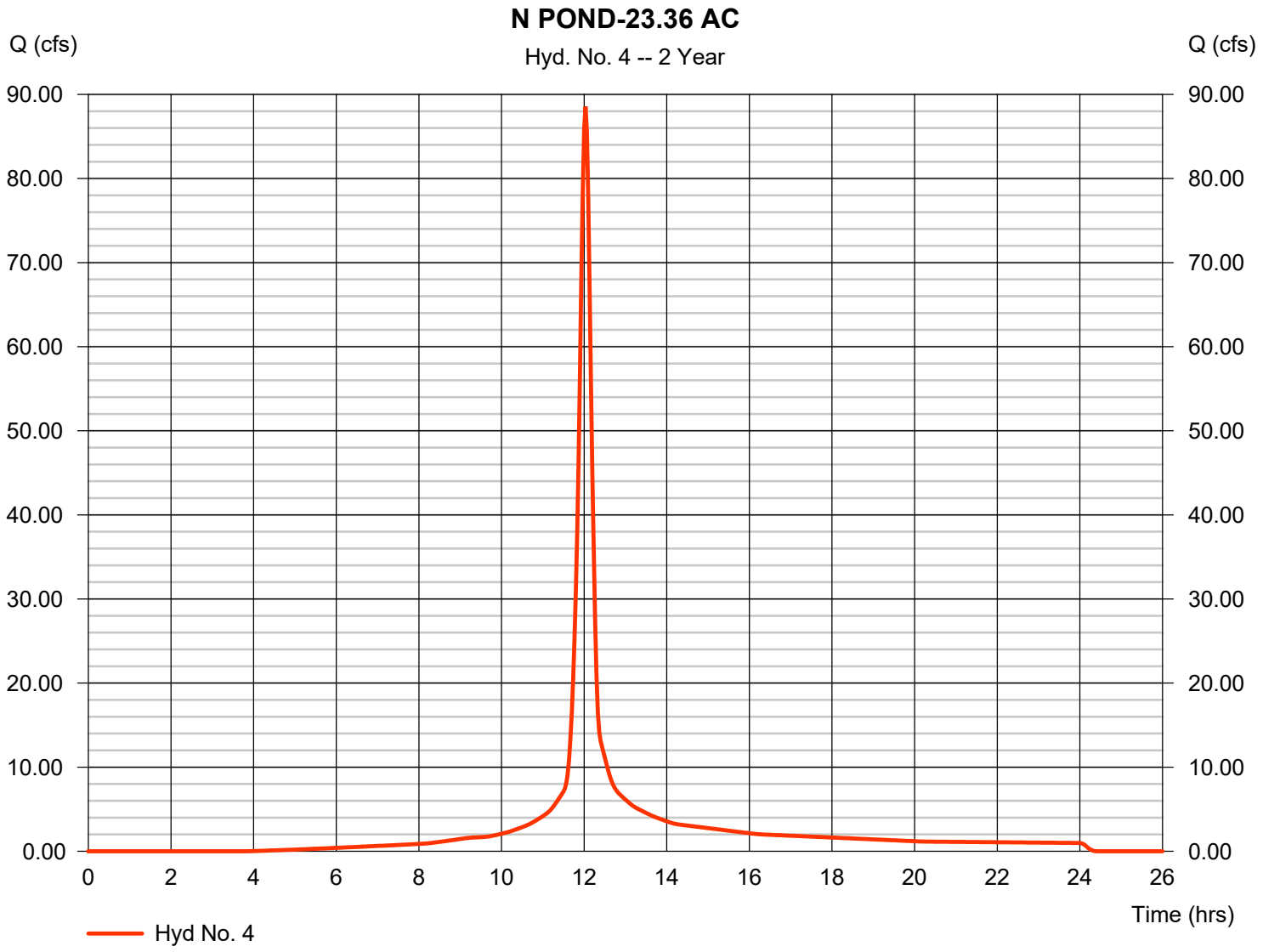
Hydrograph Report

Hyd. No. 4

N POND-23.36 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	88.56 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	258,548 cuft
Drainage area	=	23.360 ac	Curve number	=	92*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	4.01 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = [(2.240 x 98) + (1.500 x 74)] / 23.360

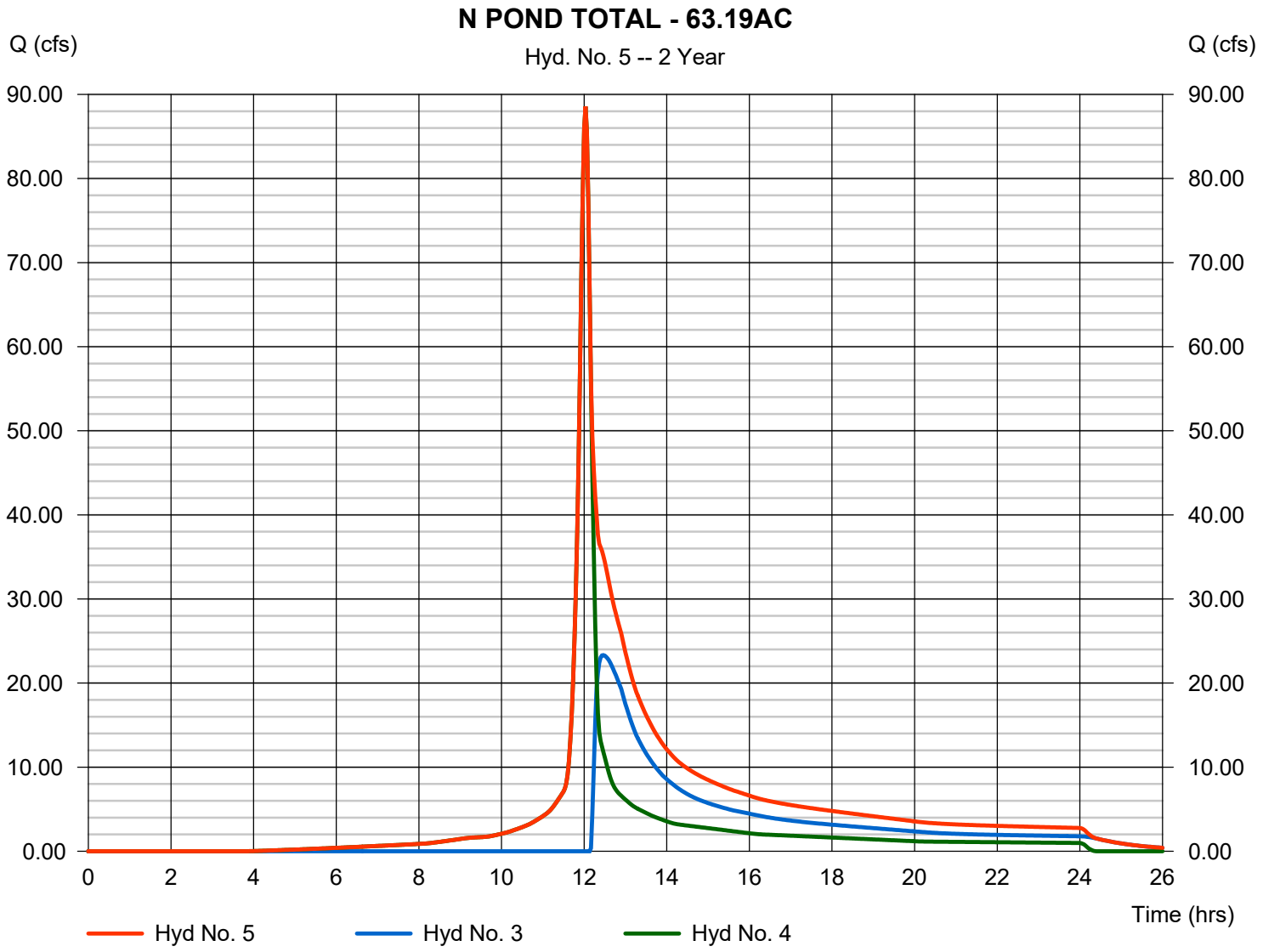


Hydrograph Report

Hyd. No. 5

N POND TOTAL - 63.19AC

Hydrograph type	=	Combine	Peak discharge	=	88.56 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	487,814 cuft
Inflow hyds.	=	3, 4	Contrib. drain. area	=	23.360 ac



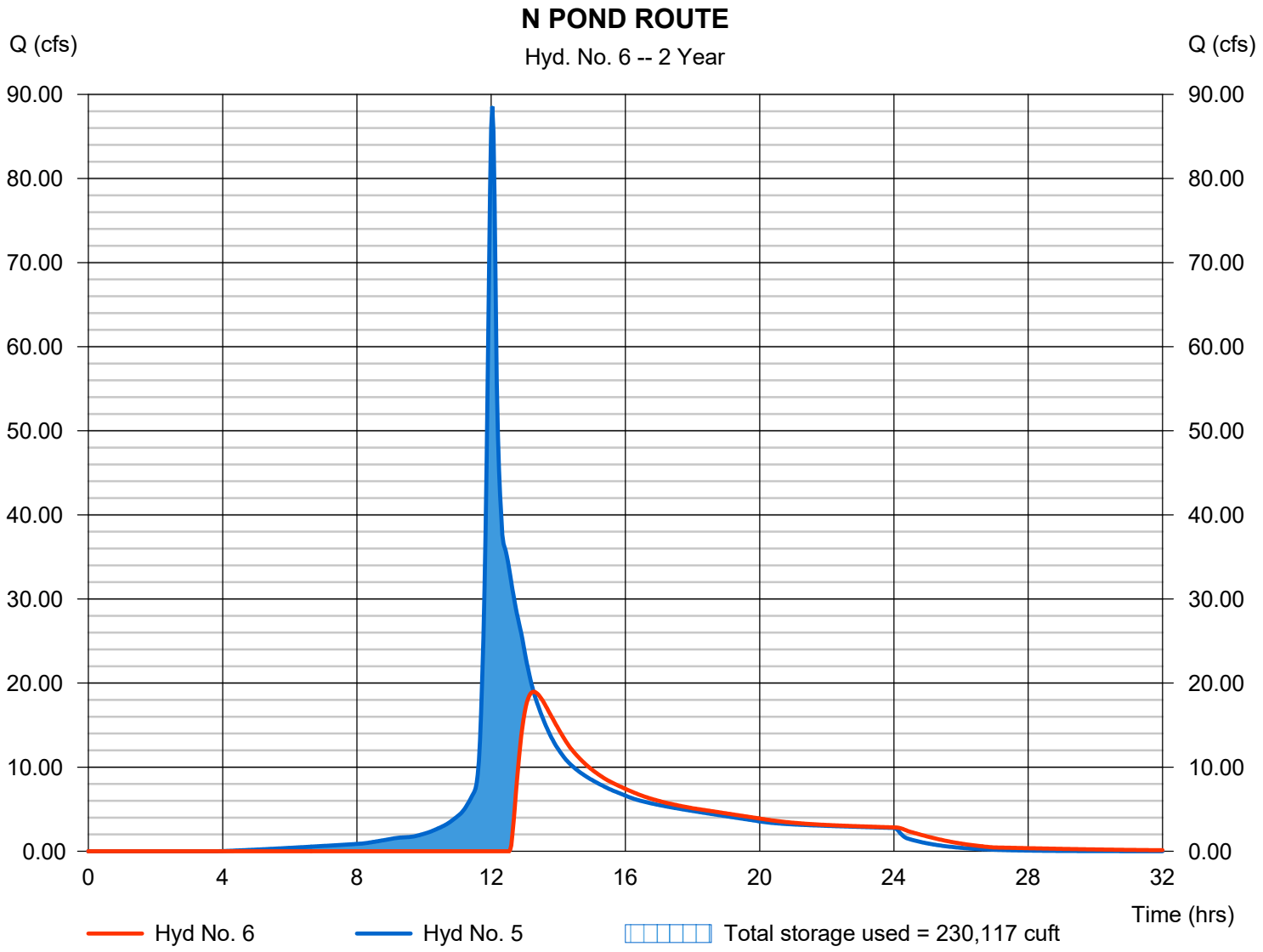
Hydrograph Report

Hyd. No. 6

N POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	18.96 cfs
Storm frequency	=	2 yrs	Time to peak	=	13.27 hrs
Time interval	=	2 min	Hyd. volume	=	293,024 cuft
Inflow hyd. No.	=	5 - N POND TOTAL - 63.19AC	Max. Elevation	=	412.85 ft
Reservoir name	=	N POND	Max. Storage	=	230,117 cuft

Storage Indication method used.



Pond Report

Pond No. 6 - N POND

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 407.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	407.00	00	0	0
1.00	408.00	21,083	7,027	7,027
2.00	409.00	43,868	31,784	38,811
3.00	410.00	46,837	45,340	84,151
4.00	411.00	49,862	48,337	132,488
5.00	412.00	52,944	51,390	183,878
6.00	413.00	56,083	54,501	238,379
6.82	413.82	59,278	47,288	285,666

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 36.00	Inactive	18.00	0.00
Span (in)	= 36.00	30.00	72.00	0.00
No. Barrels	= 2	1	2	0
Invert El. (ft)	= 407.00	407.00	412.25	0.00
Length (ft)	= 124.00	0.00	0.00	0.00
Slope (%)	= 1.60	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

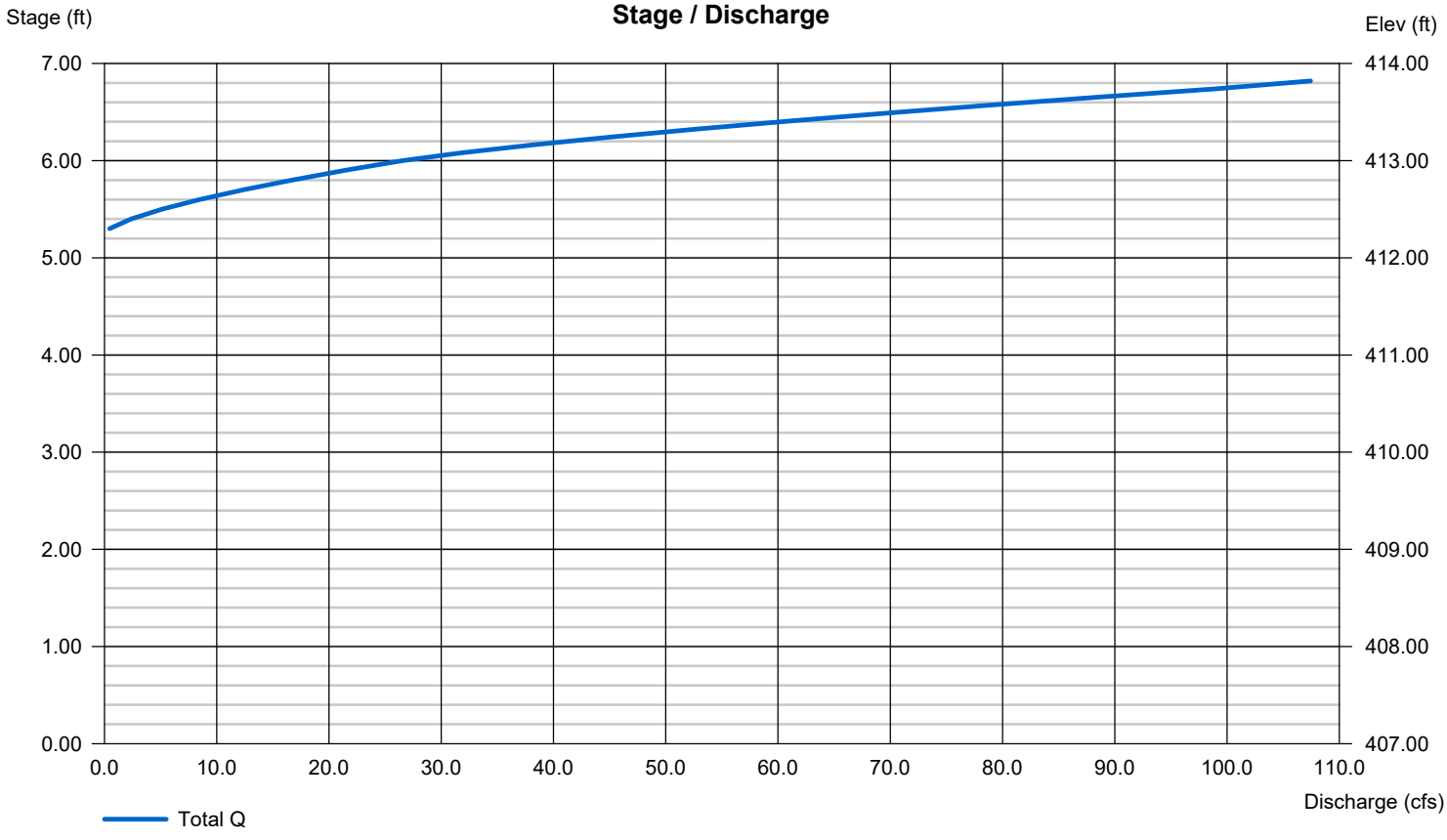
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 20.00	15.00	0.00	0.00
Crest El. (ft)	= 414.00	413.00	0.00	0.00
Weir Coeff.	= 3.33	2.60	3.33	3.33
Weir Type	= 1	Broad	---	---
Multi-Stage	= Yes	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



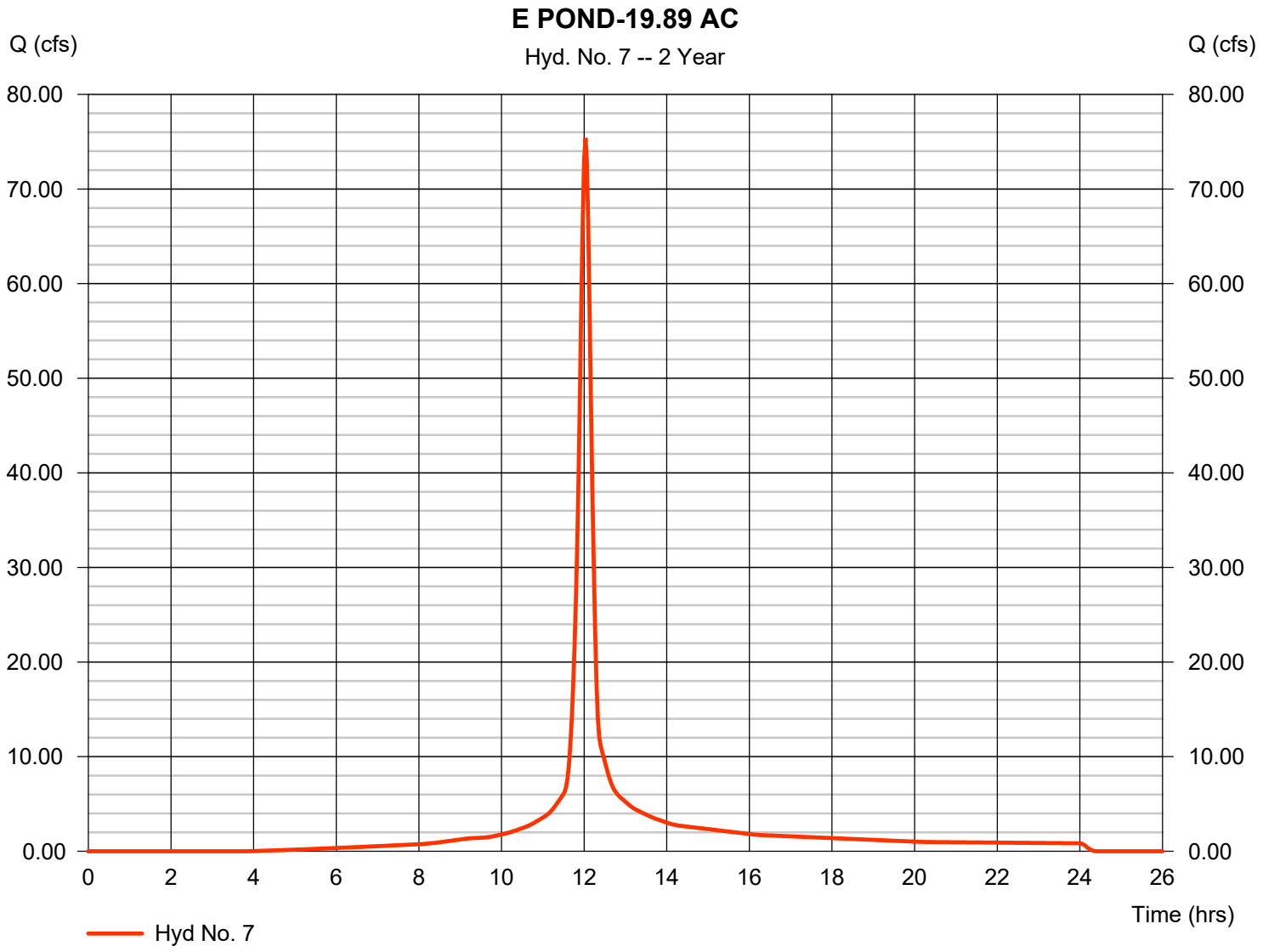
Hydrograph Report

Hyd. No. 7

E POND-19.89 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	75.40 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	220,142 cuft
Drainage area	=	19.890 ac	Curve number	=	92*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	15.00 min
Total precip.	=	4.01 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = [(23.480 x 98) + (7.820 x 74)] / 19.890



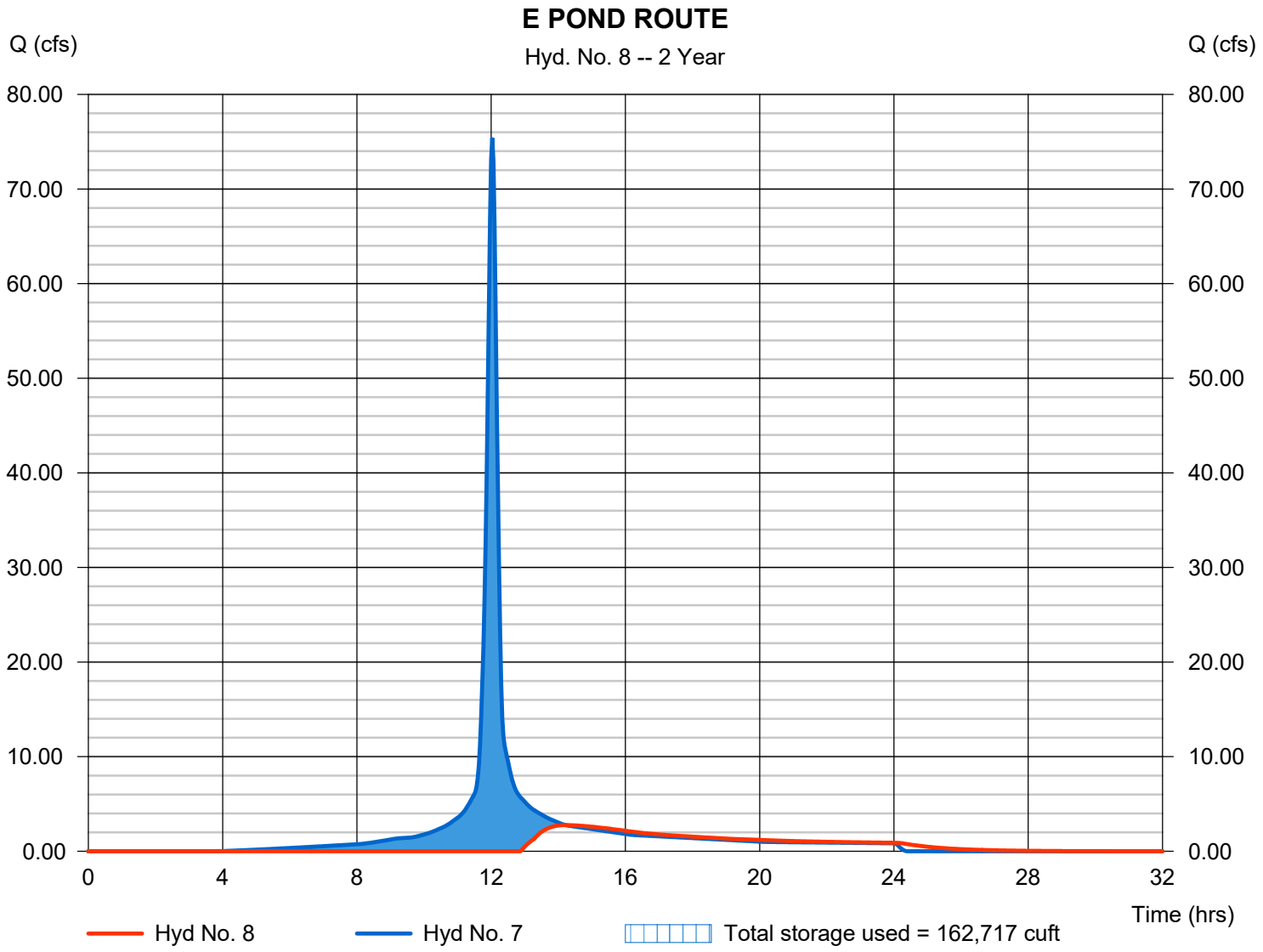
Hydrograph Report

Hyd. No. 8

E POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	2.761 cfs
Storm frequency	=	2 yrs	Time to peak	=	14.23 hrs
Time interval	=	2 min	Hyd. volume	=	67,297 cuft
Inflow hyd. No.	=	7 - E POND-19.89 AC	Max. Elevation	=	422.36 ft
Reservoir name	=	E POND	Max. Storage	=	162,717 cuft

Storage Indication method used.



Pond Report

Pond No. 5 - E POND

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 415.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	415.00	00	0	0
1.00	416.00	800	267	267
2.00	417.00	4,824	2,529	2,796
3.00	418.00	11,284	7,828	10,624
4.00	419.00	20,180	15,516	26,140
5.00	420.00	31,508	25,632	51,772
6.00	421.00	45,265	38,175	89,948
7.00	422.00	56,380	50,715	140,663
8.00	423.00	65,524	60,889	201,552
9.00	424.00	74,733	70,071	271,623

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 24.00	Inactive	12.00	0.00
Span (in)	= 24.00	18.00	48.00	0.00
No. Barrels	= 1	1	3	0
Invert El. (ft)	= 415.00	415.00	422.20	0.00
Length (ft)	= 144.00	0.00	0.00	0.00
Slope (%)	= 1.40	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

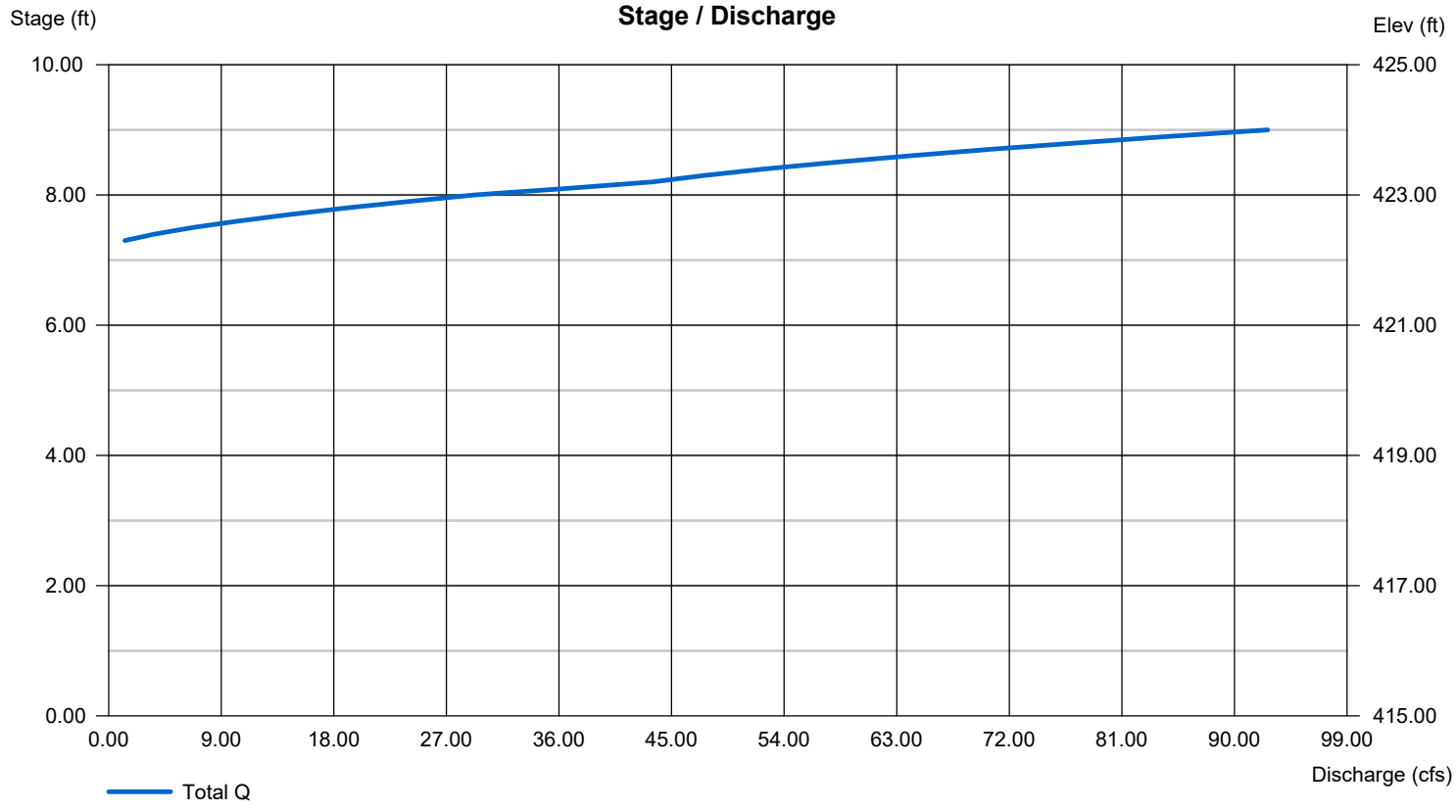
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 20.00	20.00	0.00	0.00
Crest El. (ft)	= 424.00	423.00	0.00	0.00
Weir Coeff.	= 3.33	2.60	3.33	3.33
Weir Type	= 1	Broad	---	---
Multi-Stage	= Yes	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

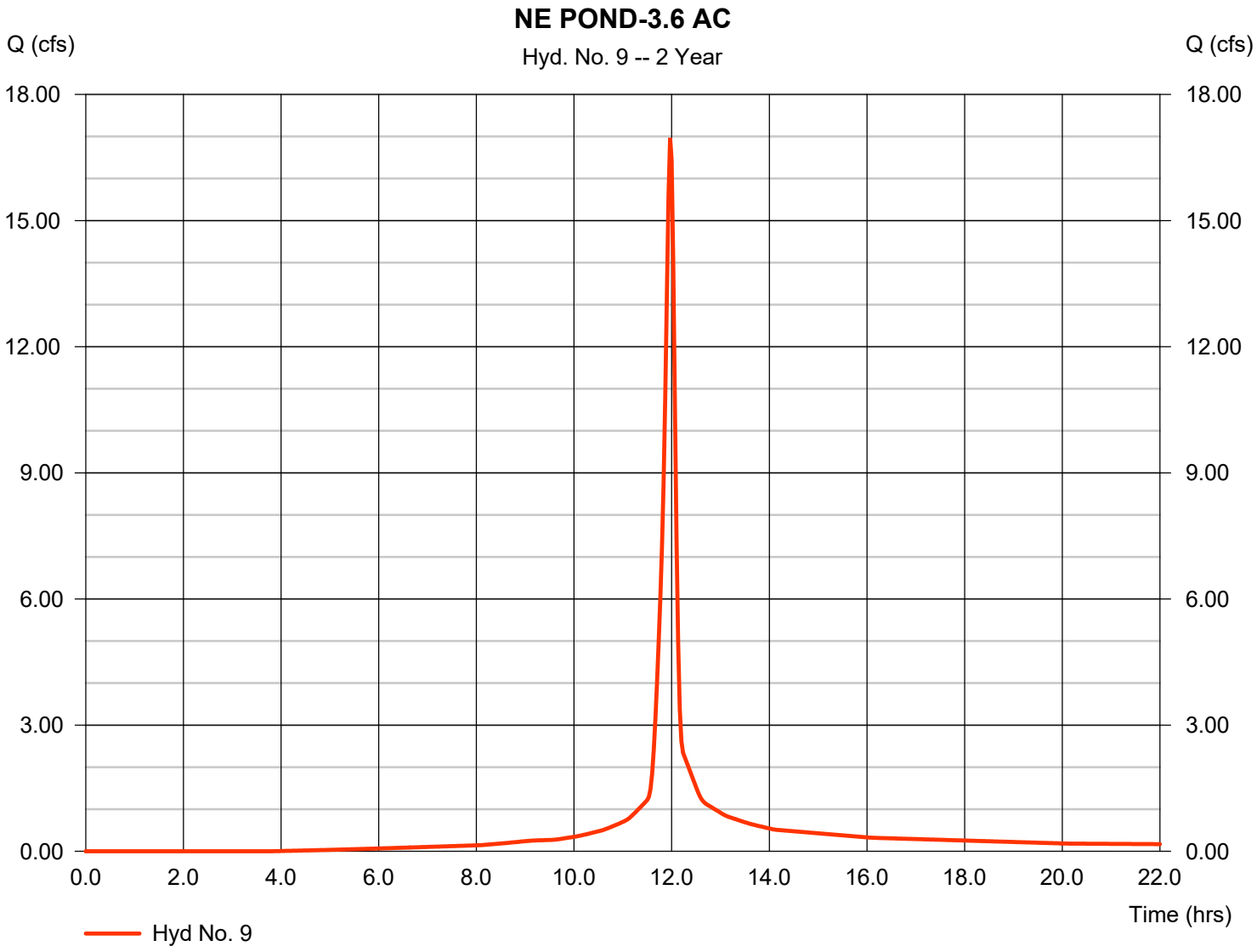


Hydrograph Report

Hyd. No. 9

NE POND-3.6 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	16.96 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.97 hrs
Time interval	=	2 min	Hyd. volume	=	40,866 cuft
Drainage area	=	3.600 ac	Curve number	=	92
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	7.10 min
Total precip.	=	4.01 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

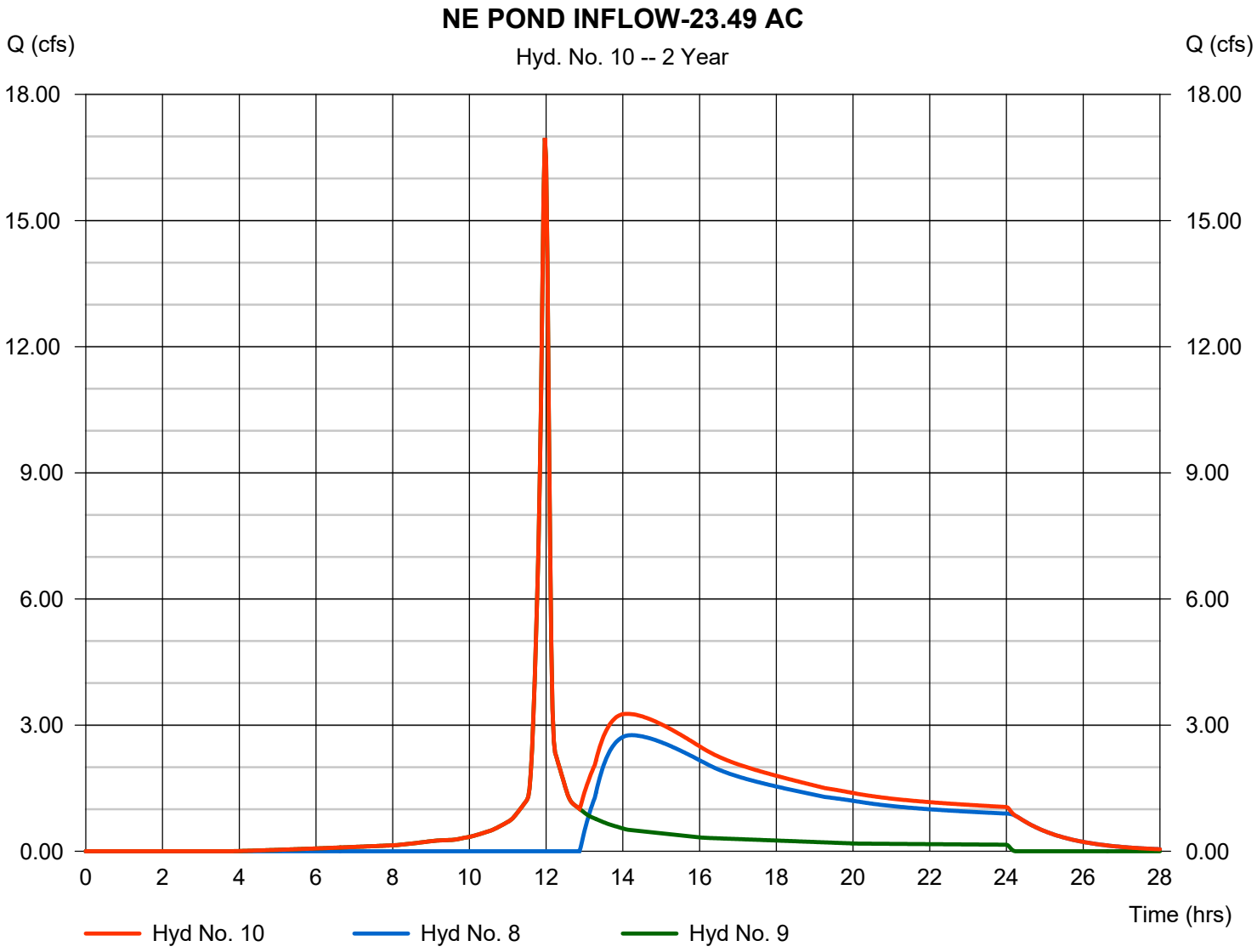


Hydrograph Report

Hyd. No. 10

NE POND INFLOW-23.49 AC

Hydrograph type	=	Combine	Peak discharge	=	16.96 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.97 hrs
Time interval	=	2 min	Hyd. volume	=	108,163 cuft
Inflow hyds.	=	8, 9	Contrib. drain. area	=	3.600 ac



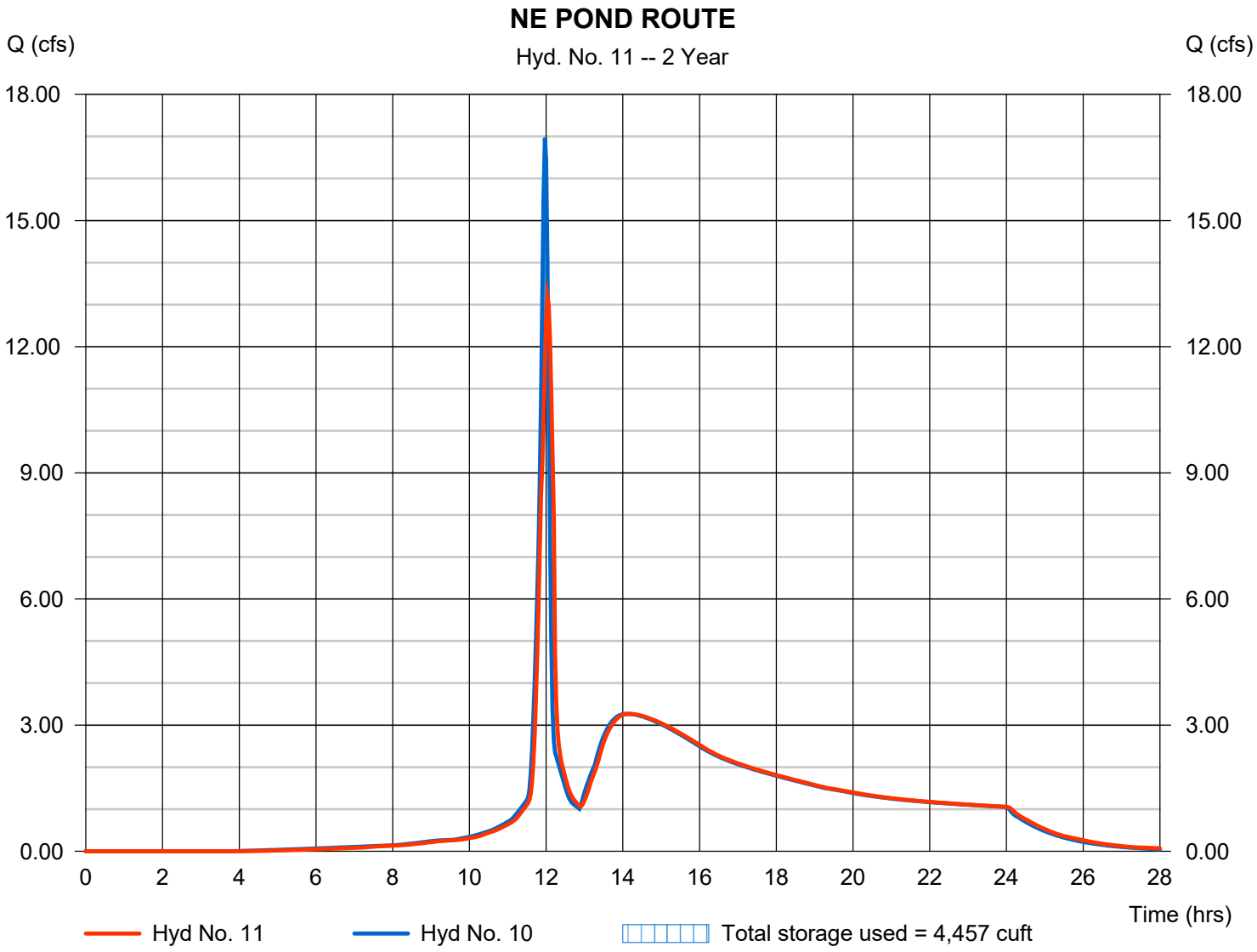
Hydrograph Report

Hyd. No. 11

NE POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	13.19 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	108,161 cuft
Inflow hyd. No.	=	10 - NE POND INFLOW-23.49Ac	Max. Elevation	=	401.27 ft
Reservoir name	=	NE POND	Max. Storage	=	4,457 cuft

Storage Indication method used.



Pond Report

Pond No. 8 - NE POND

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 400.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	400.00	00	0	0
1.00	401.00	5,871	1,957	1,957
2.00	402.00	13,165	9,275	11,231
3.00	403.00	15,044	14,093	25,324
4.00	404.00	17,032	16,026	41,350
5.00	405.00	19,132	18,070	59,420
6.00	406.00	21,335	20,222	79,642
7.00	407.00	23,597	22,454	102,096

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 48.00	0.00	0.00	0.00
Span (in)	= 48.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 400.00	0.00	0.00	0.00
Length (ft)	= 75.00	0.00	0.00	0.00
Slope (%)	= 1.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

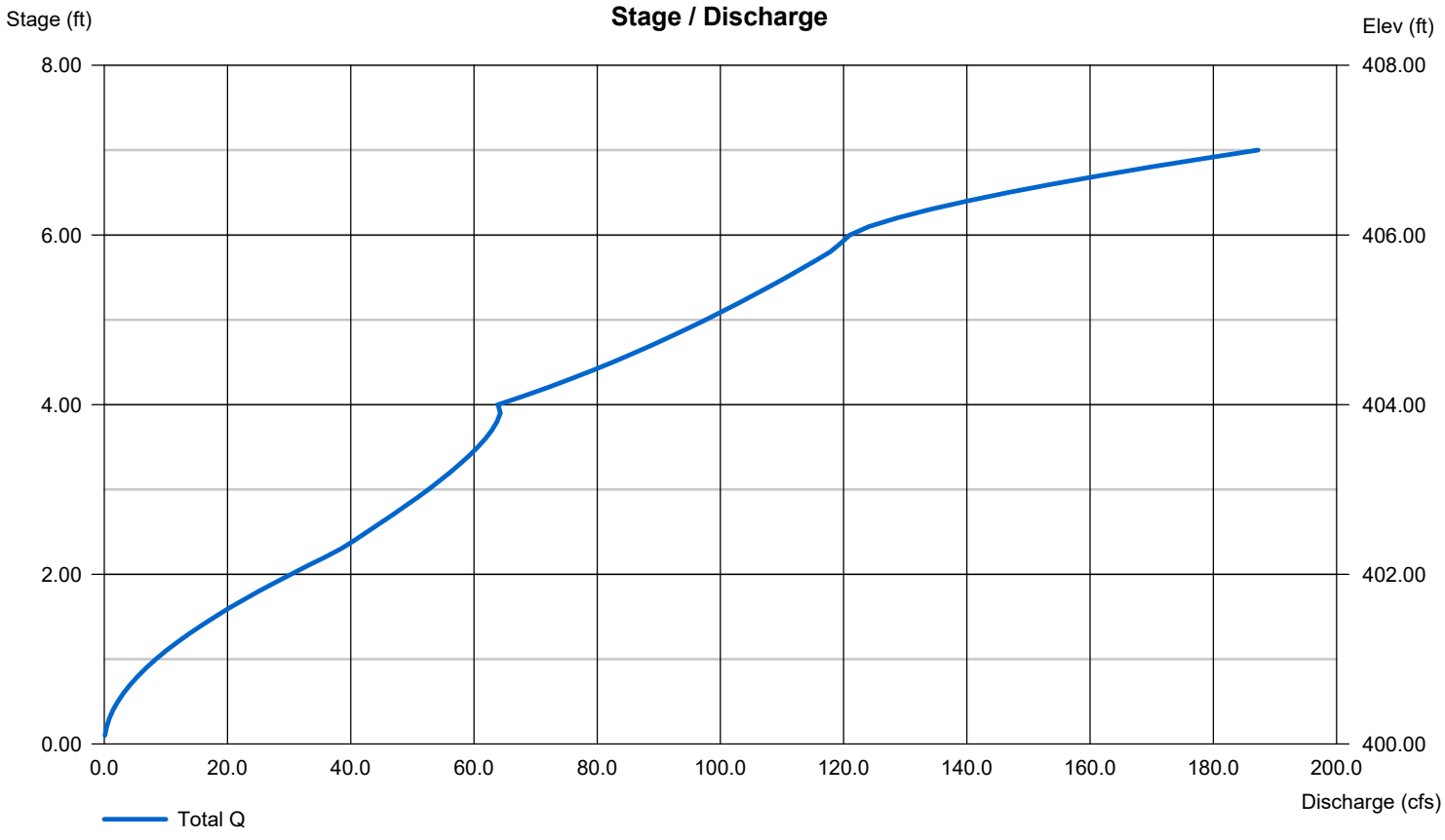
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 0.00	20.00	0.00	0.00
Crest El. (ft)	= 0.00	406.00	0.00	0.00
Weir Coeff.	= 3.33	2.60	3.33	3.33
Weir Type	= ---	Broad	---	---
Multi-Stage	= No	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

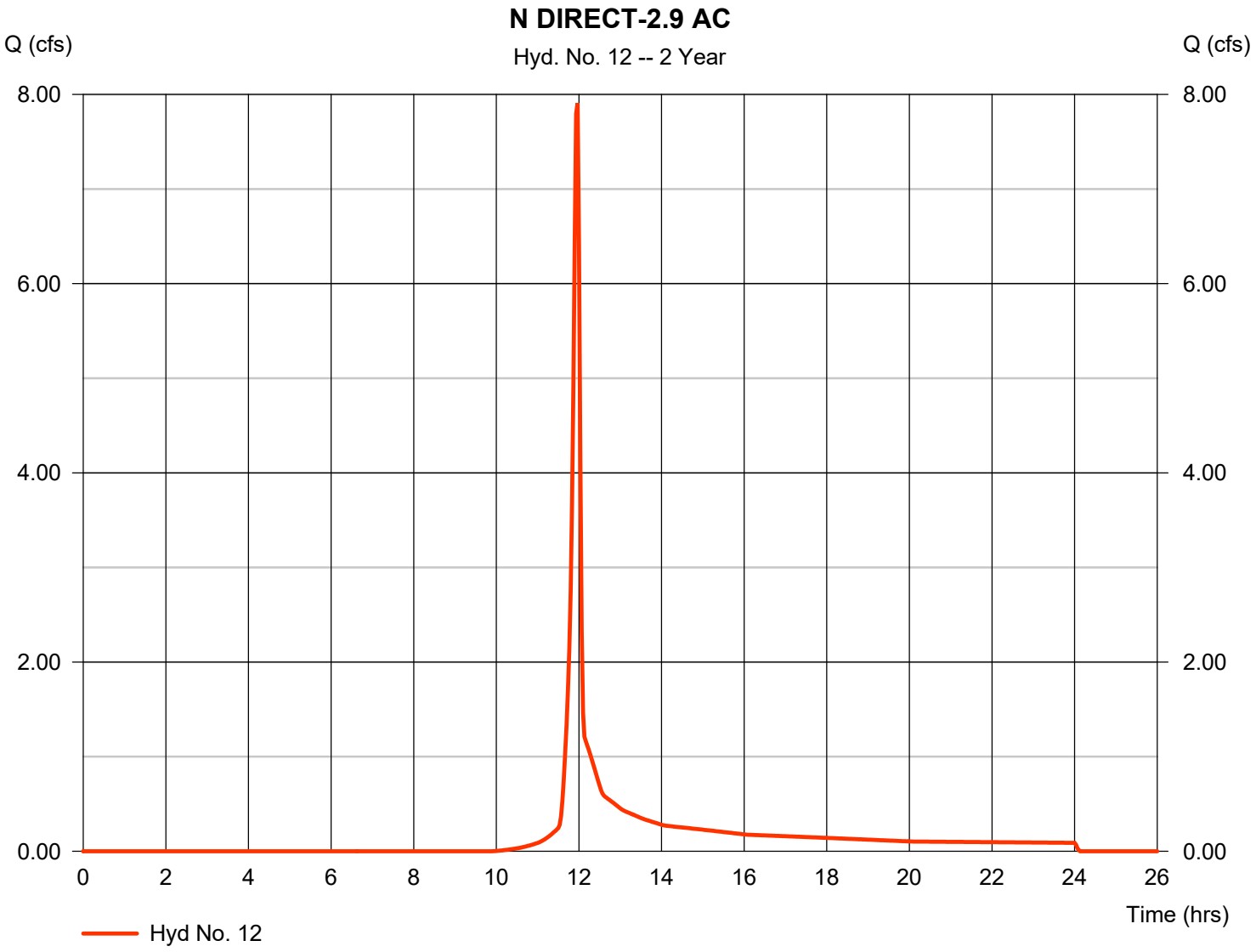


Hydrograph Report

Hyd. No. 12

N DIRECT-2.9 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	7.907 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.97 hrs
Time interval	=	2 min	Hyd. volume	=	15,827 cuft
Drainage area	=	2.900 ac	Curve number	=	74
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	5.00 min
Total precip.	=	4.01 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

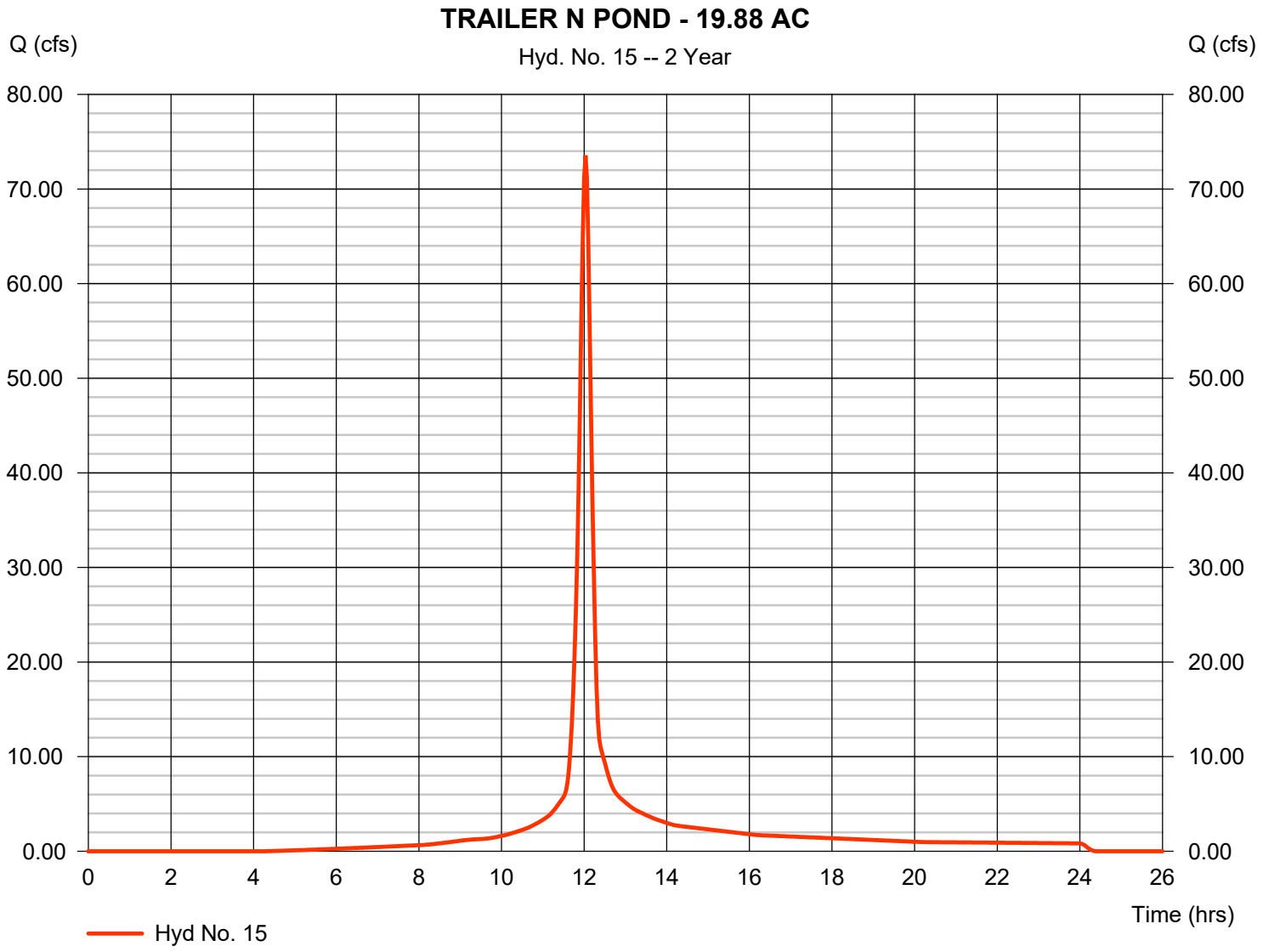


Hydrograph Report

Hyd. No. 15

TRAILER N POND - 19.88 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	73.56 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	212,975 cuft
Drainage area	=	19.880 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	15.30 min
Total precip.	=	4.01 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

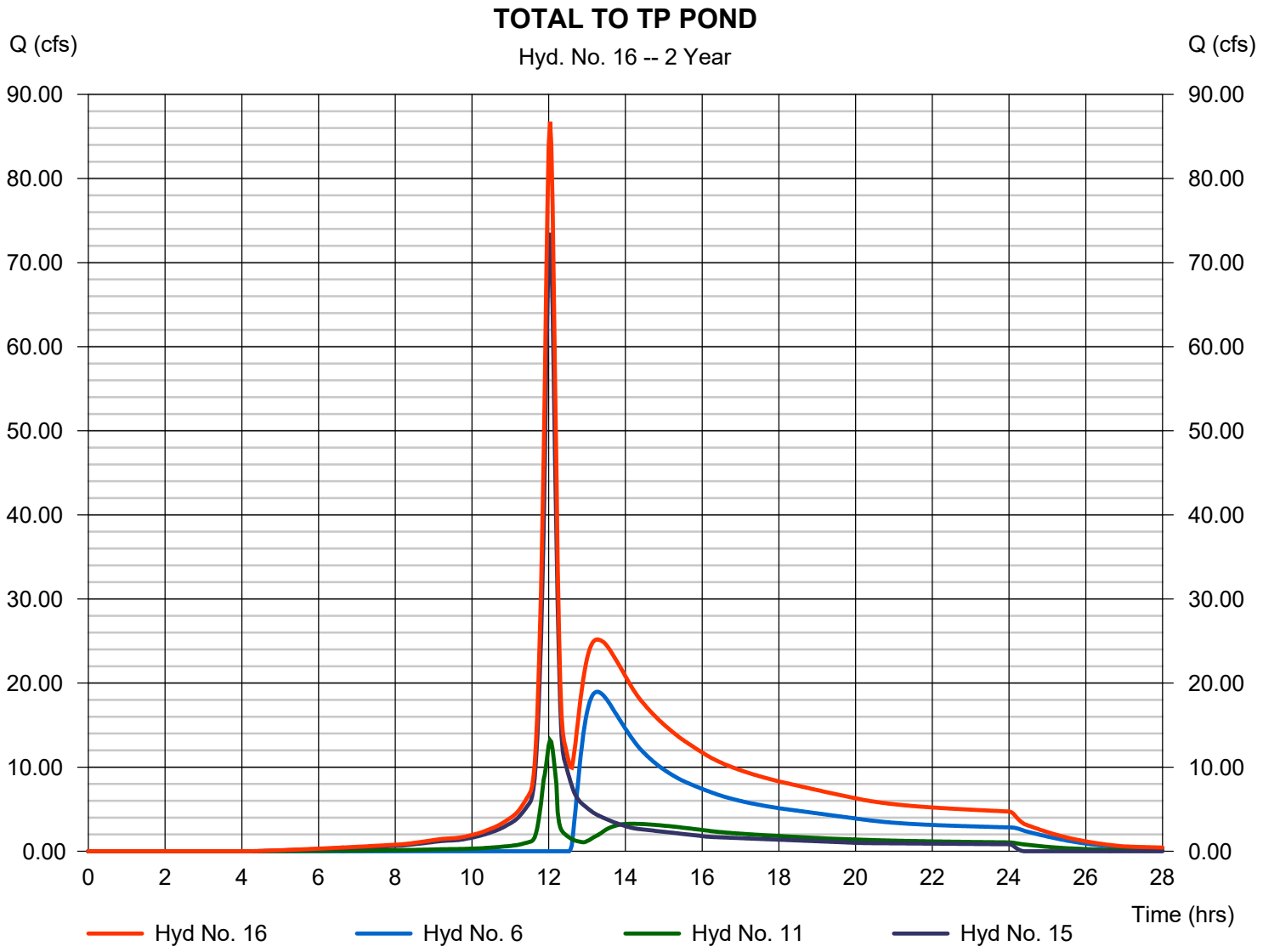


Hydrograph Report

Hyd. No. 16

TOTAL TO TP POND

Hydrograph type	=	Combine	Peak discharge	=	86.75 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	614,160 cuft
Inflow hyds.	=	6, 11, 15	Contrib. drain. area	=	19.880 ac



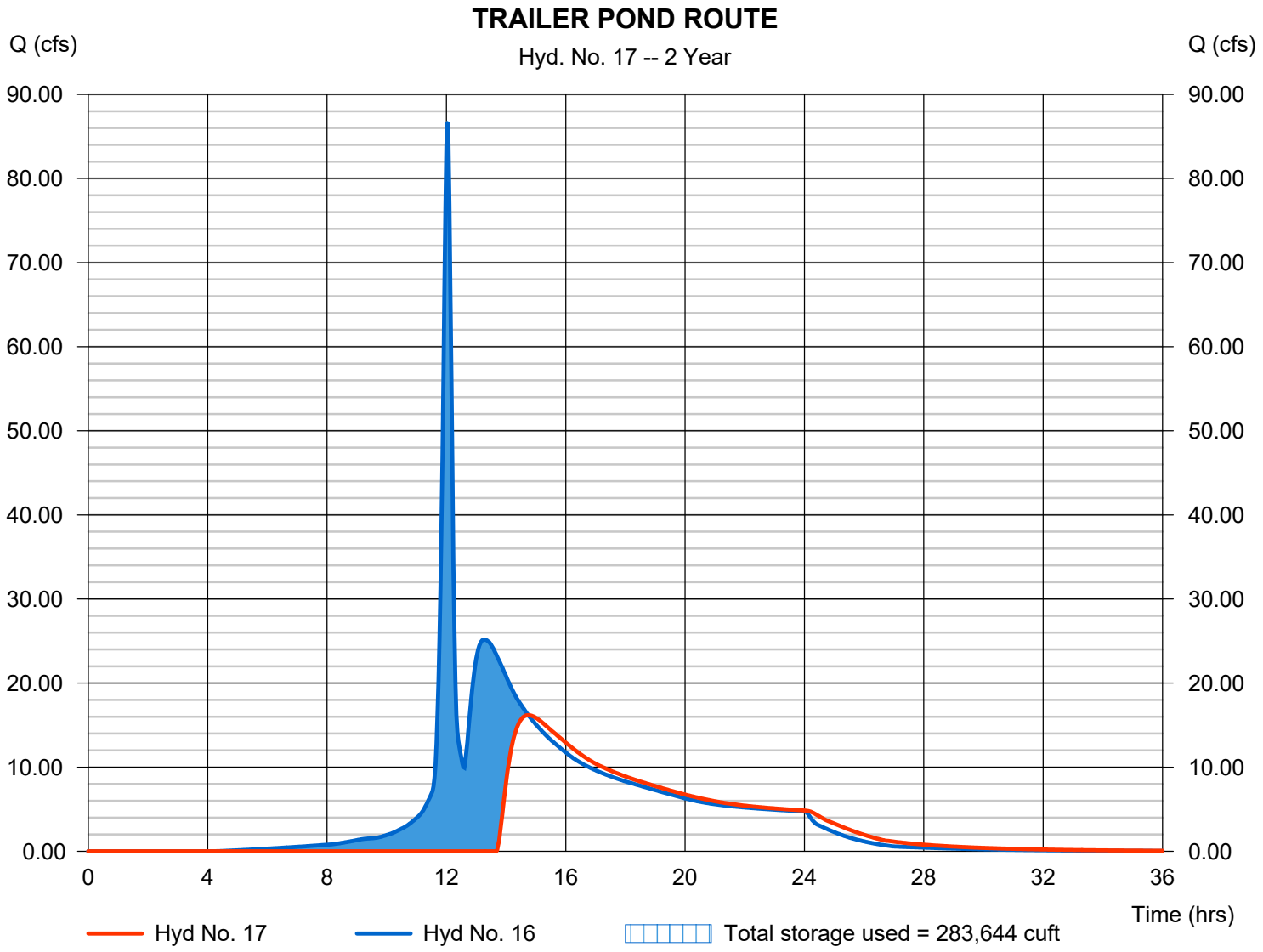
Hydrograph Report

Hyd. No. 17

TRAILER POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	16.19 cfs
Storm frequency	=	2 yrs	Time to peak	=	14.73 hrs
Time interval	=	2 min	Hyd. volume	=	362,269 cuft
Inflow hyd. No.	=	16 - TOTAL TO TP POND	Max. Elevation	=	393.54 ft
Reservoir name	=	TRAILER PARKING POND	Max. Storage	=	283,644 cuft

Storage Indication method used.



Pond Report

Pond No. 10 - TRAILER PARKING POND

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 386.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	386.00	00	0	0
1.00	387.00	4,378	1,459	1,459
2.00	388.00	25,738	13,576	15,035
3.00	389.00	44,788	34,823	49,857
4.00	390.00	47,533	46,149	96,007
5.00	391.00	50,378	48,944	144,950
6.00	392.00	53,343	51,848	196,799
7.00	393.00	56,862	55,087	251,886
8.00	394.00	61,138	58,981	310,867
9.00	395.00	65,471	63,286	374,153

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 42.00	Inactive	18.00	0.00
Span (in)	= 42.00	38.00	48.00	0.00
No. Barrels	= 1	1	3	0
Invert El. (ft)	= 386.00	386.00	393.00	0.00
Length (ft)	= 50.00	0.00	0.00	0.00
Slope (%)	= 1.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

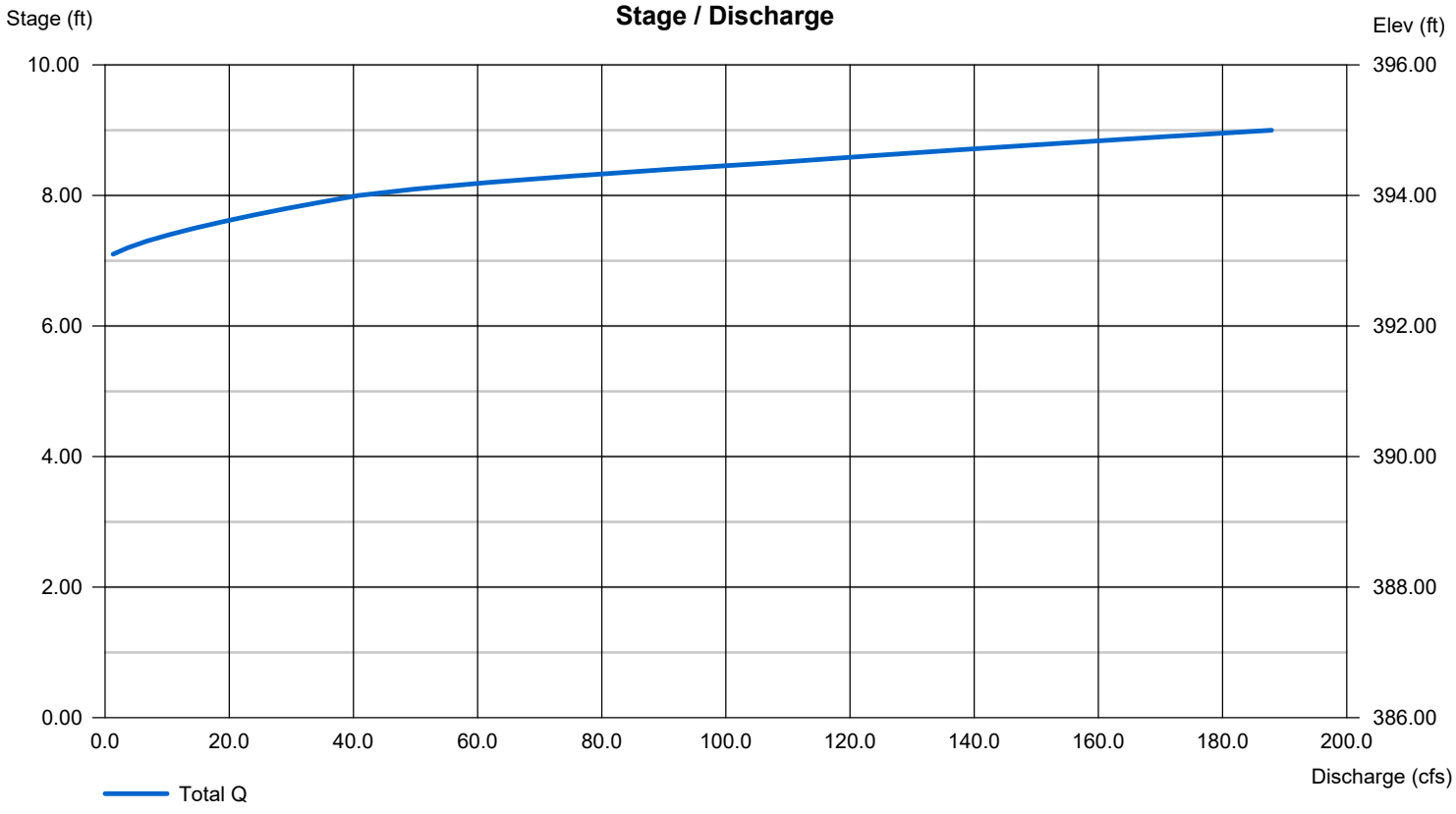
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 20.00	35.00	0.00	0.00
Crest El. (ft)	= 395.00	394.00	0.00	0.00
Weir Coeff.	= 3.33	2.60	3.33	3.33
Weir Type	= 1	Broad	---	---
Multi-Stage	= Yes	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



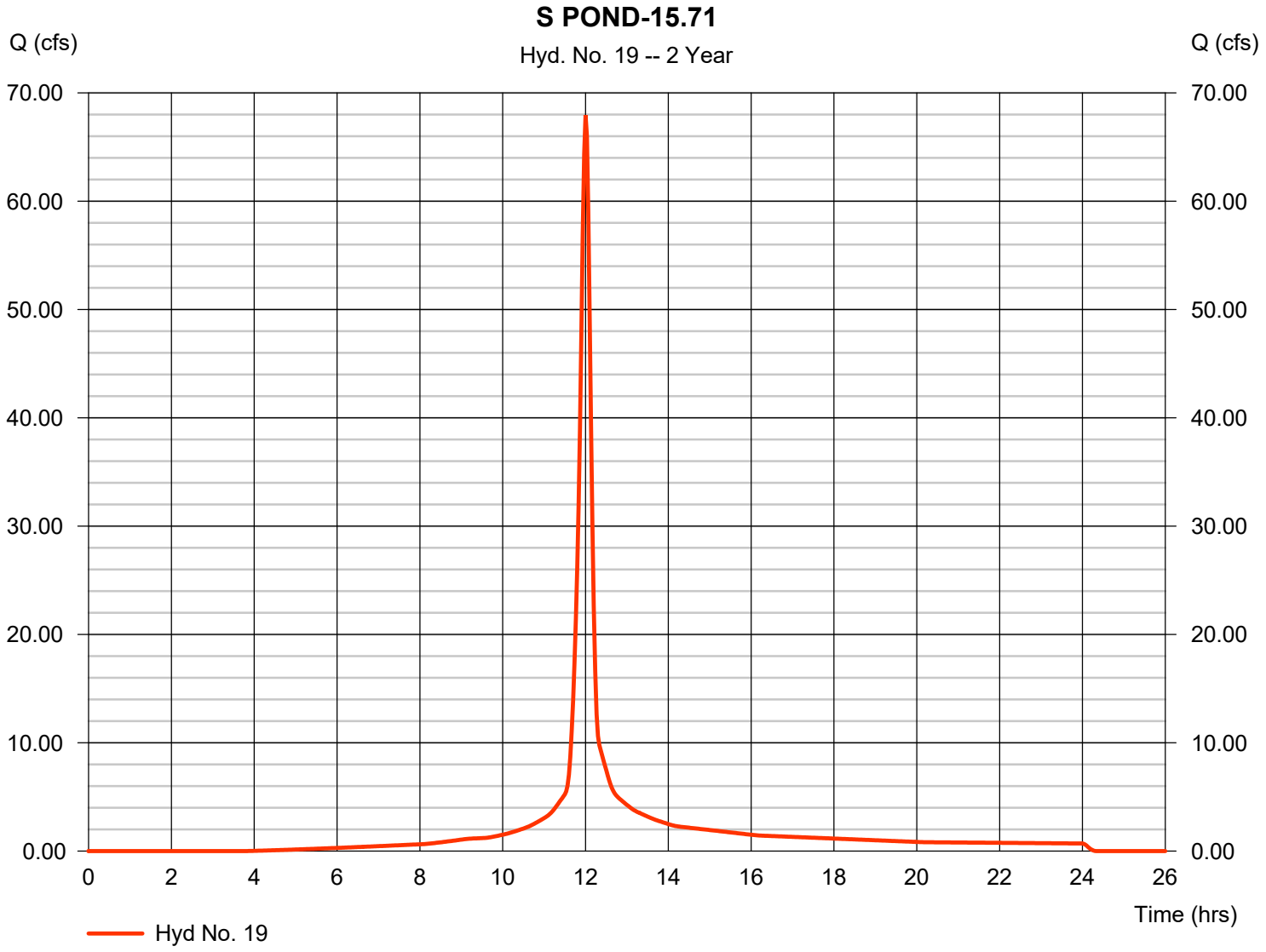
Hydrograph Report

Hyd. No. 19

S POND-15.71

Hydrograph type	=	SCS Runoff	Peak discharge	=	67.96 cfs
Storm frequency	=	2 yrs	Time to peak	=	12.00 hrs
Time interval	=	2 min	Hyd. volume	=	183,909 cuft
Drainage area	=	15.710 ac	Curve number	=	92*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	10.00 min
Total precip.	=	4.01 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = [(3.100 x 98) + (1.590 x 76)] / 15.710



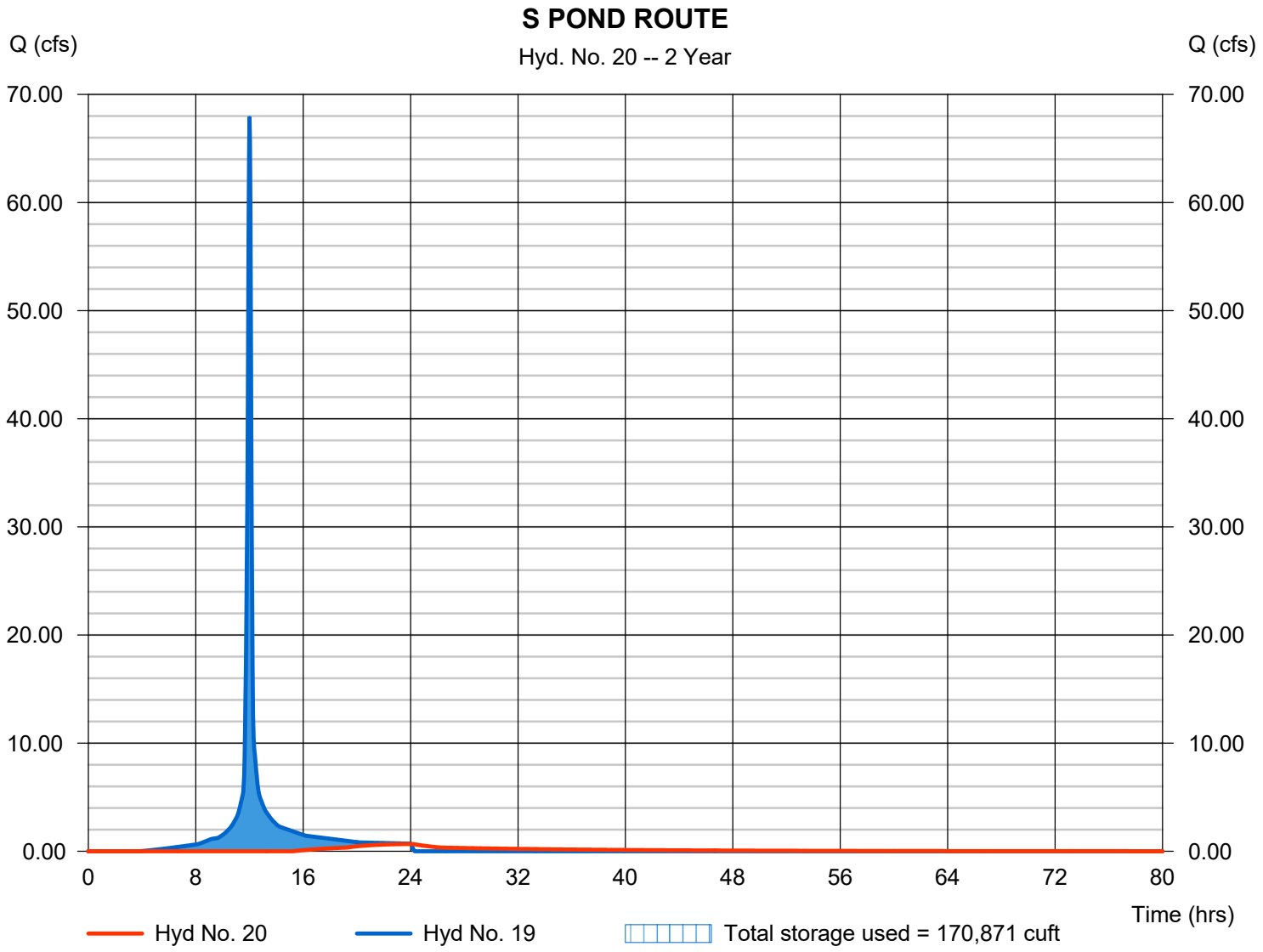
Hydrograph Report

Hyd. No. 20

S POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	0.671 cfs
Storm frequency	=	2 yrs	Time to peak	=	24.03 hrs
Time interval	=	2 min	Hyd. volume	=	32,703 cuft
Inflow hyd. No.	=	19 - S POND-15.71	Max. Elevation	=	423.32 ft
Reservoir name	=	S POND	Max. Storage	=	170,871 cuft

Storage Indication method used.



Pond Report

Pond No. 7 - S POND

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 421.50 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	421.50	00	0	0
0.50	422.00	72,196	12,031	12,031
1.50	423.00	146,028	106,956	118,988
2.50	424.00	175,890	160,712	279,699
3.50	425.00	196,925	186,290	465,989

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 18.00	Inactive	6.00	0.00
Span (in)	= 18.00	8.00	36.00	0.00
No. Barrels	= 1	1	3	0
Invert El. (ft)	= 421.50	421.50	423.25	0.00
Length (ft)	= 50.00	0.00	0.00	0.00
Slope (%)	= 1.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

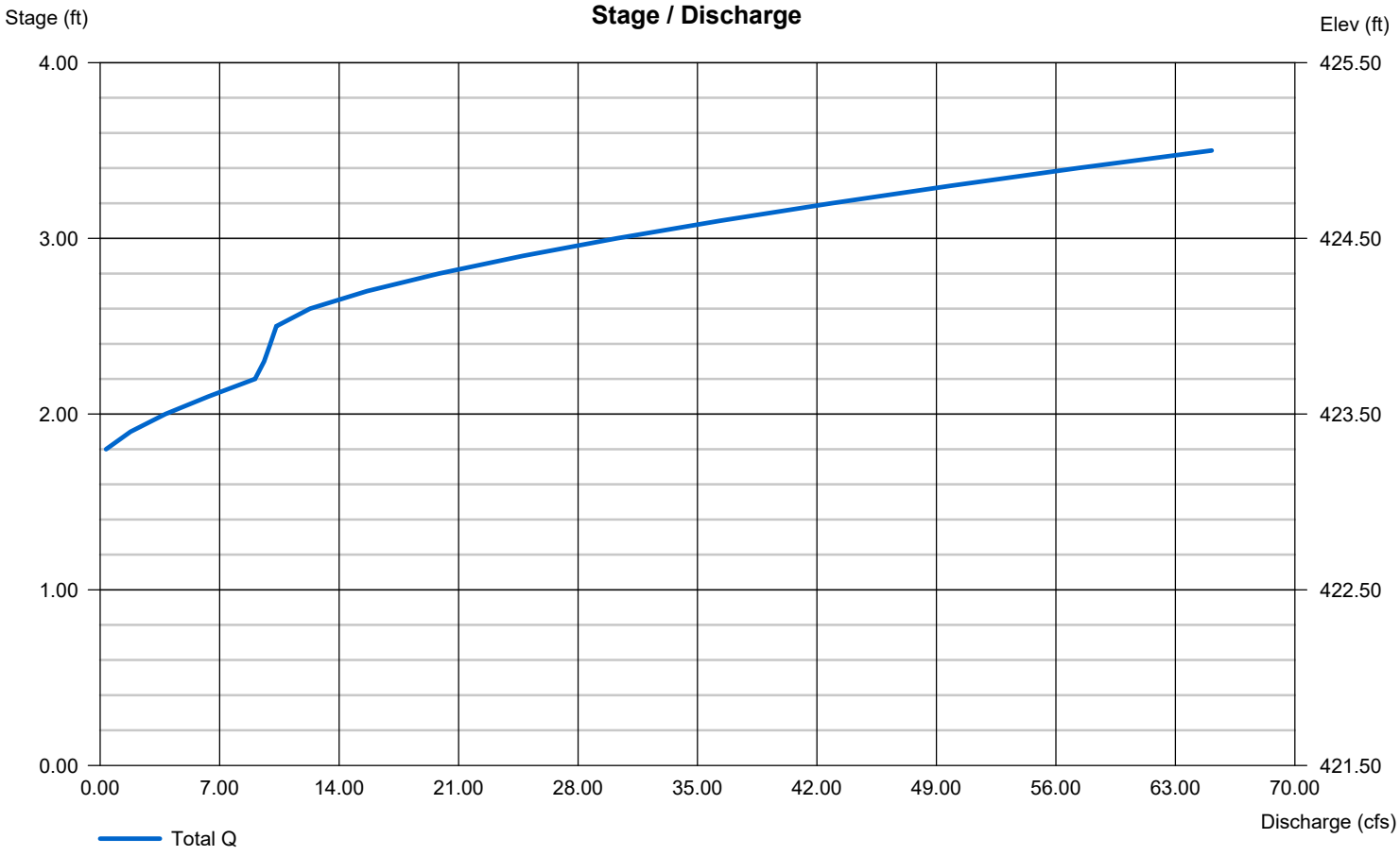
Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 16.00	20.00	0.00	0.00
Crest El. (ft)	= 425.50	424.00	0.00	0.00
Weir Coeff.	= 3.33	2.60	3.33	3.33
Weir Type	= 1	Broad	---	---
Multi-Stage	= Yes	No	No	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

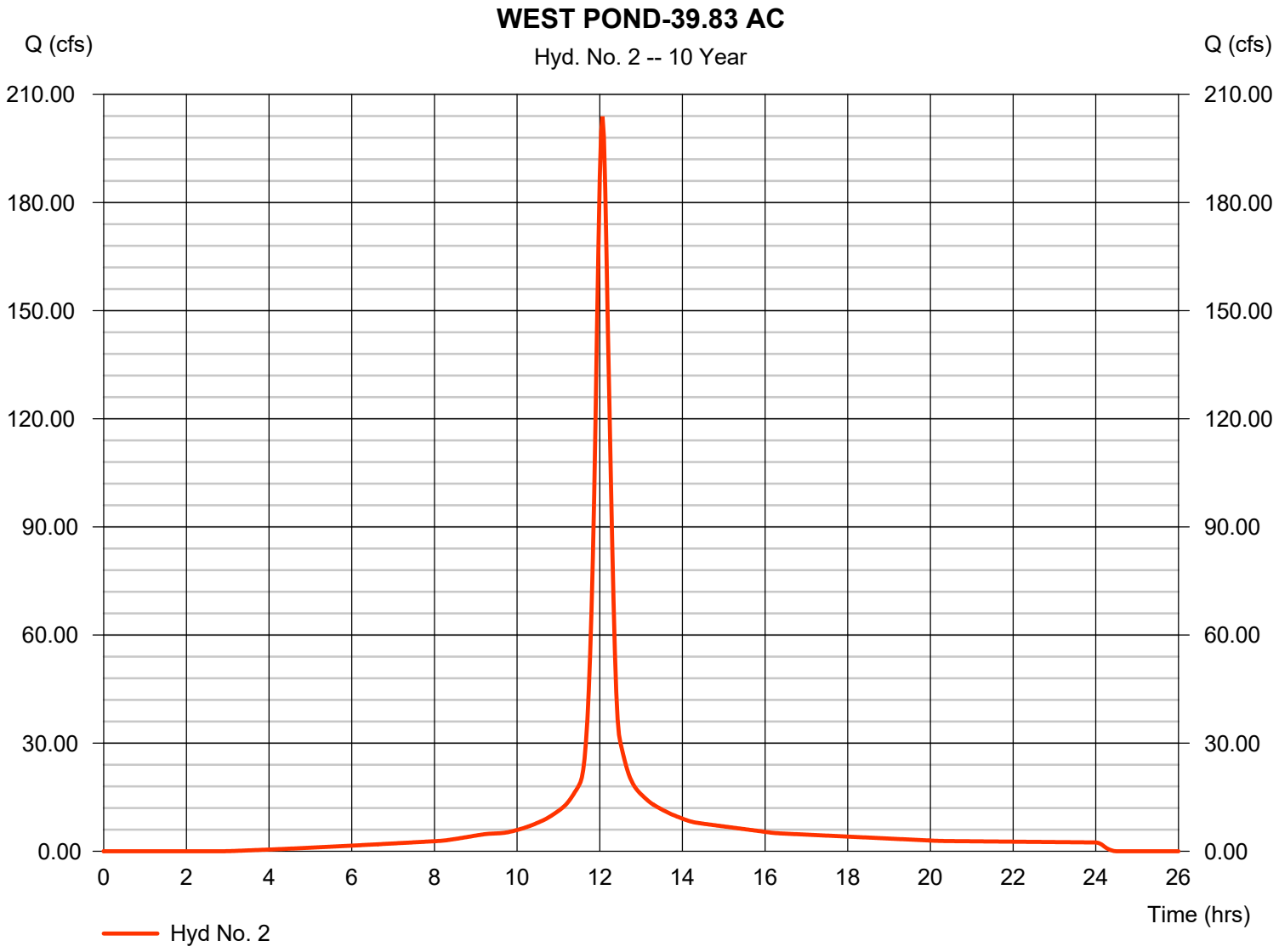
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
2	SCS Runoff	203.90	2	724	673,325	------	------	------	WEST POND-39.83 AC
3	Reservoir	82.33	2	738	450,449	2	424.67	355,190	W POND
4	SCS Runoff	128.98	2	722	385,027	------	------	------	N POND-23.36 AC
5	Combine	150.53	2	724	835,477	3, 4	------	------	N POND TOTAL - 63.19AC
6	Reservoir	89.28	2	746	640,686	5	413.66	276,417	N POND ROUTE
7	SCS Runoff	109.82	2	722	327,834	------	------	------	E POND-19.89 AC
8	Reservoir	23.03	2	738	174,988	7	422.88	194,353	E POND ROUTE
9	SCS Runoff	24.66	2	718	60,858	------	------	------	NE POND-3.6 AC
10	Combine	26.09	2	738	235,846	8, 9	------	------	NE POND INFLOW-23.49 AC
11	Reservoir	24.18	2	746	235,843	10	401.76	9,031	NE POND ROUTE
12	SCS Runoff	13.85	2	716	27,979	------	------	------	N DIRECT-2.9 AC
15	SCS Runoff	108.11	2	722	319,908	------	------	------	TRAILER N POND - 19.88 AC
16	Combine	128.56	2	744	1,196,436	6, 11, 15	------	------	TOTAL TO TP POND
17	Reservoir	104.52	2	760	944,546	16	394.48	341,473	TRAILER POND ROUTE
19	SCS Runoff	98.93	2	720	273,876	------	------	------	S POND-15.71
20	Reservoir	3.497	2	842	122,659	19	423.48	196,733	S POND ROUTE

Hydrograph Report

Hyd. No. 2

WEST POND-39.83 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	203.90 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.07 hrs
Time interval	=	2 min	Hyd. volume	=	673,325 cuft
Drainage area	=	39.830 ac	Curve number	=	92
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	20.00 min
Total precip.	=	5.58 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484



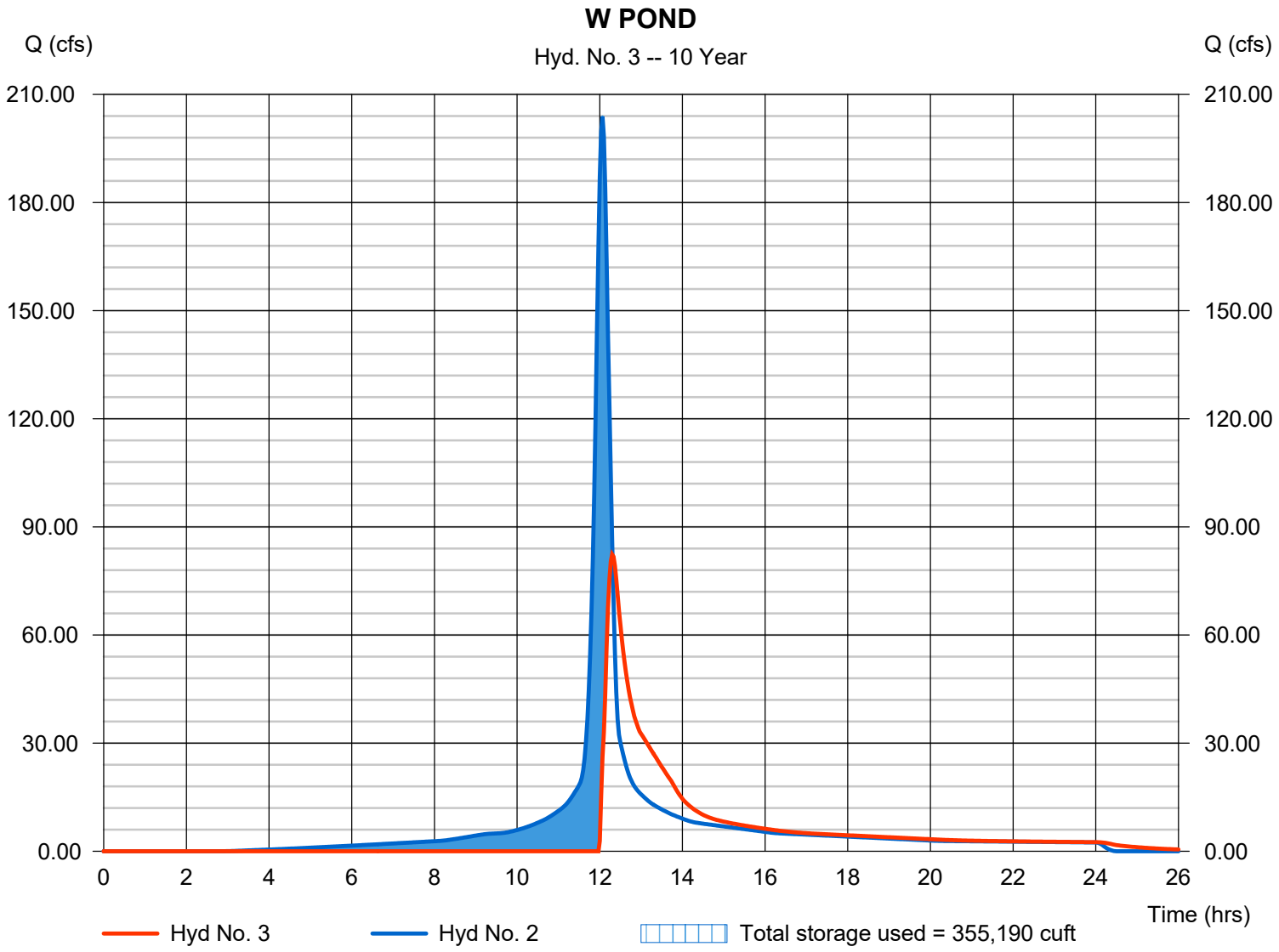
Hydrograph Report

Hyd. No. 3

W POND

Hydrograph type	=	Reservoir	Peak discharge	=	82.33 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.30 hrs
Time interval	=	2 min	Hyd. volume	=	450,449 cuft
Inflow hyd. No.	=	2 - WEST POND-39.83 AC	Max. Elevation	=	424.67 ft
Reservoir name	=	W POND	Max. Storage	=	355,190 cuft

Storage Indication method used.



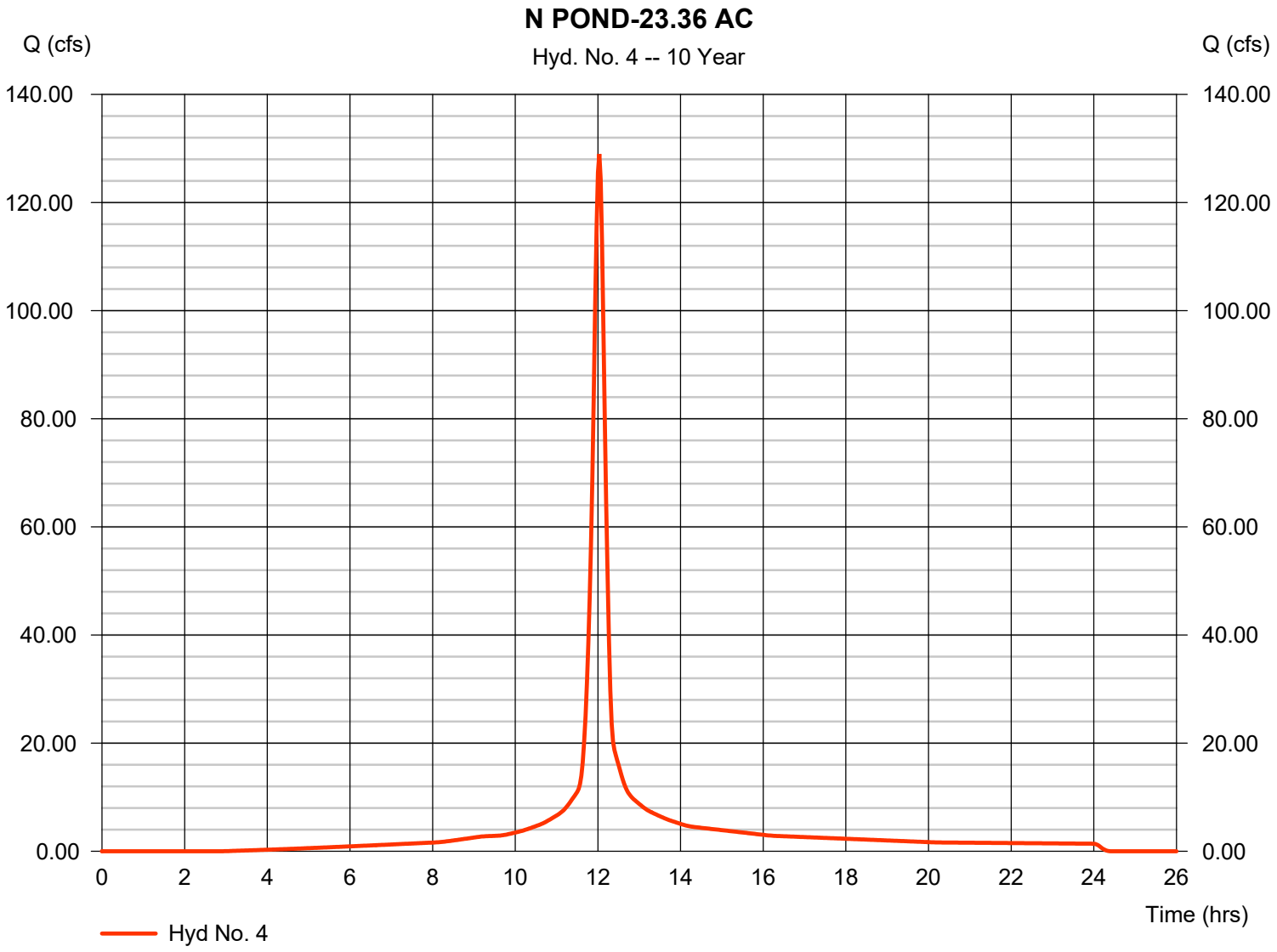
Hydrograph Report

Hyd. No. 4

N POND-23.36 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	128.98 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	385,027 cuft
Drainage area	=	23.360 ac	Curve number	=	92*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	15.00 min
Total precip.	=	5.58 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = [(2.240 x 98) + (1.500 x 74)] / 23.360

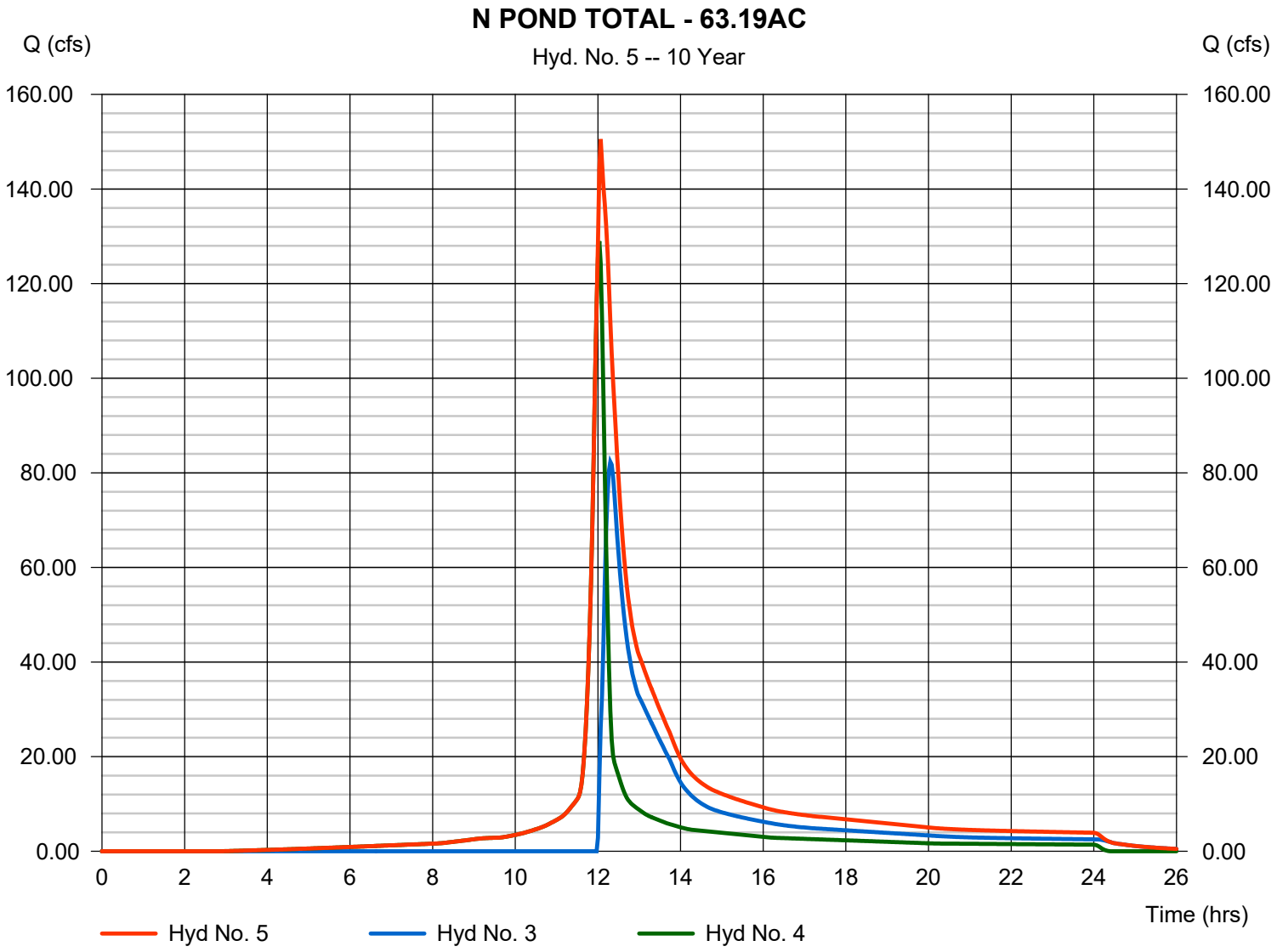


Hydrograph Report

Hyd. No. 5

N POND TOTAL - 63.19AC

Hydrograph type	=	Combine	Peak discharge	=	150.53 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.07 hrs
Time interval	=	2 min	Hyd. volume	=	835,477 cuft
Inflow hyds.	=	3, 4	Contrib. drain. area	=	23.360 ac



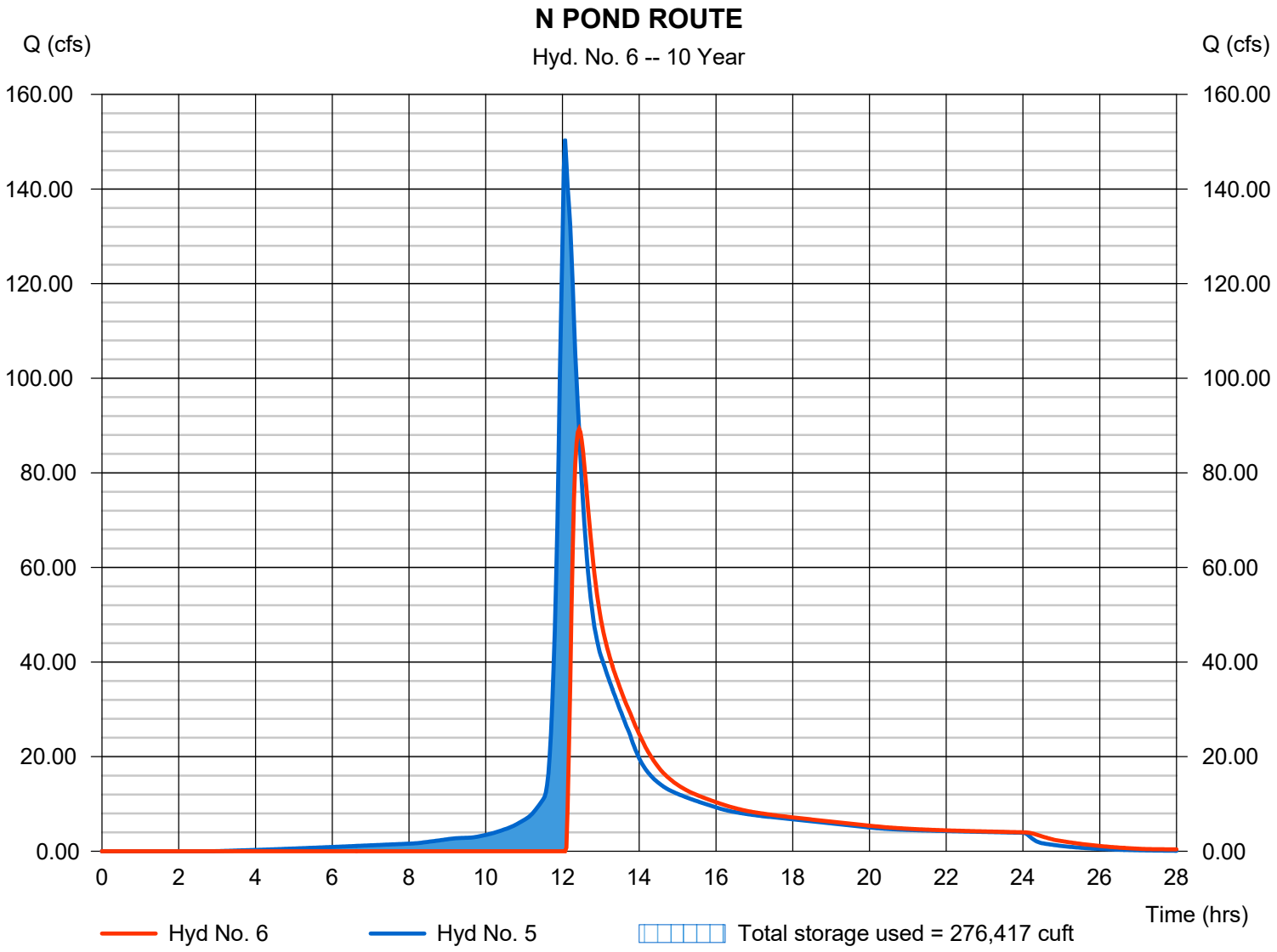
Hydrograph Report

Hyd. No. 6

N POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	89.28 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.43 hrs
Time interval	=	2 min	Hyd. volume	=	640,686 cuft
Inflow hyd. No.	=	5 - N POND TOTAL - 63.19AC	Max. Elevation	=	413.66 ft
Reservoir name	=	N POND	Max. Storage	=	276,417 cuft

Storage Indication method used.



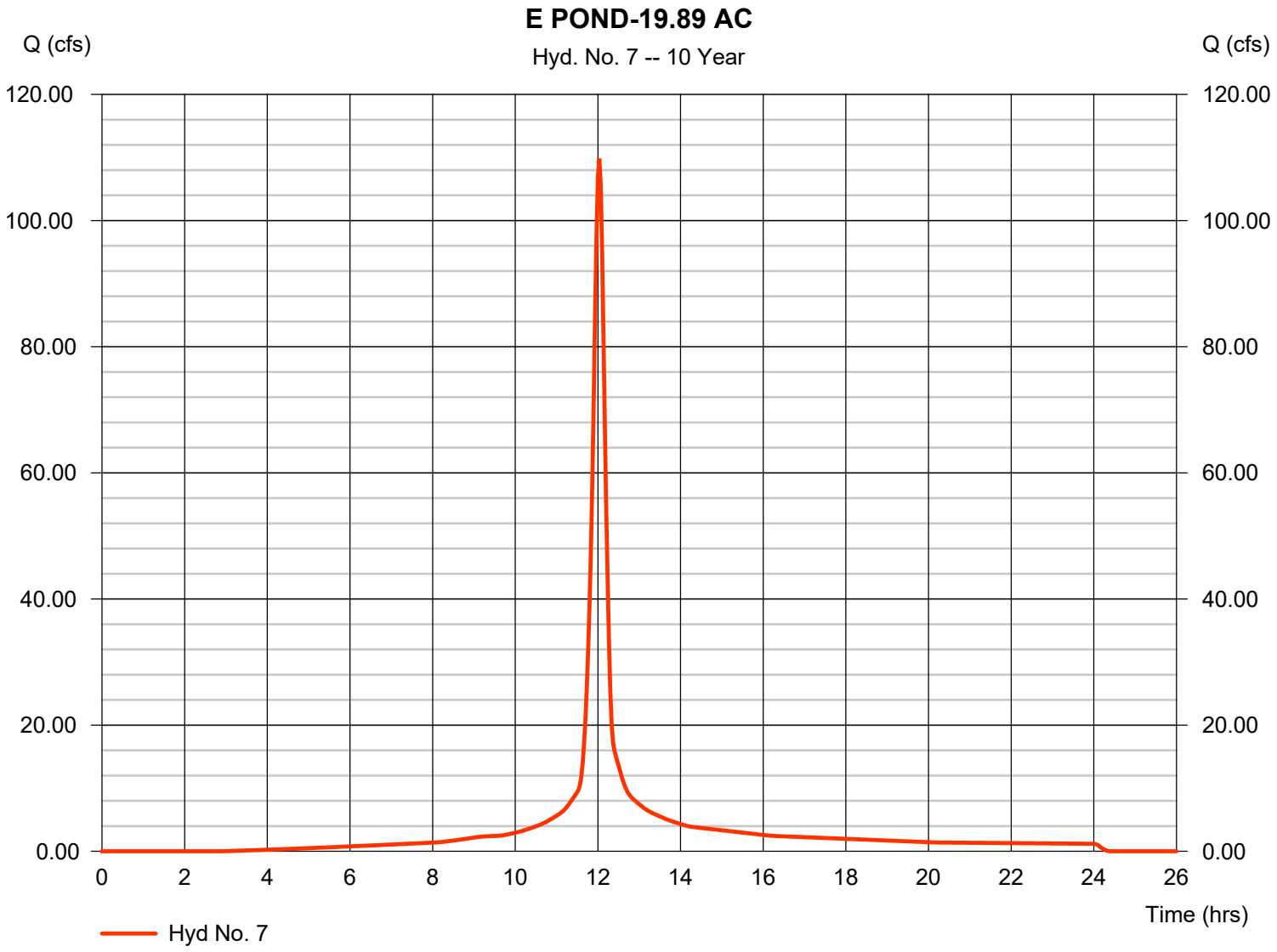
Hydrograph Report

Hyd. No. 7

E POND-19.89 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	109.82 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	327,834 cuft
Drainage area	=	19.890 ac	Curve number	=	92*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	15.00 min
Total precip.	=	5.58 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = [(23.480 x 98) + (7.820 x 74)] / 19.890



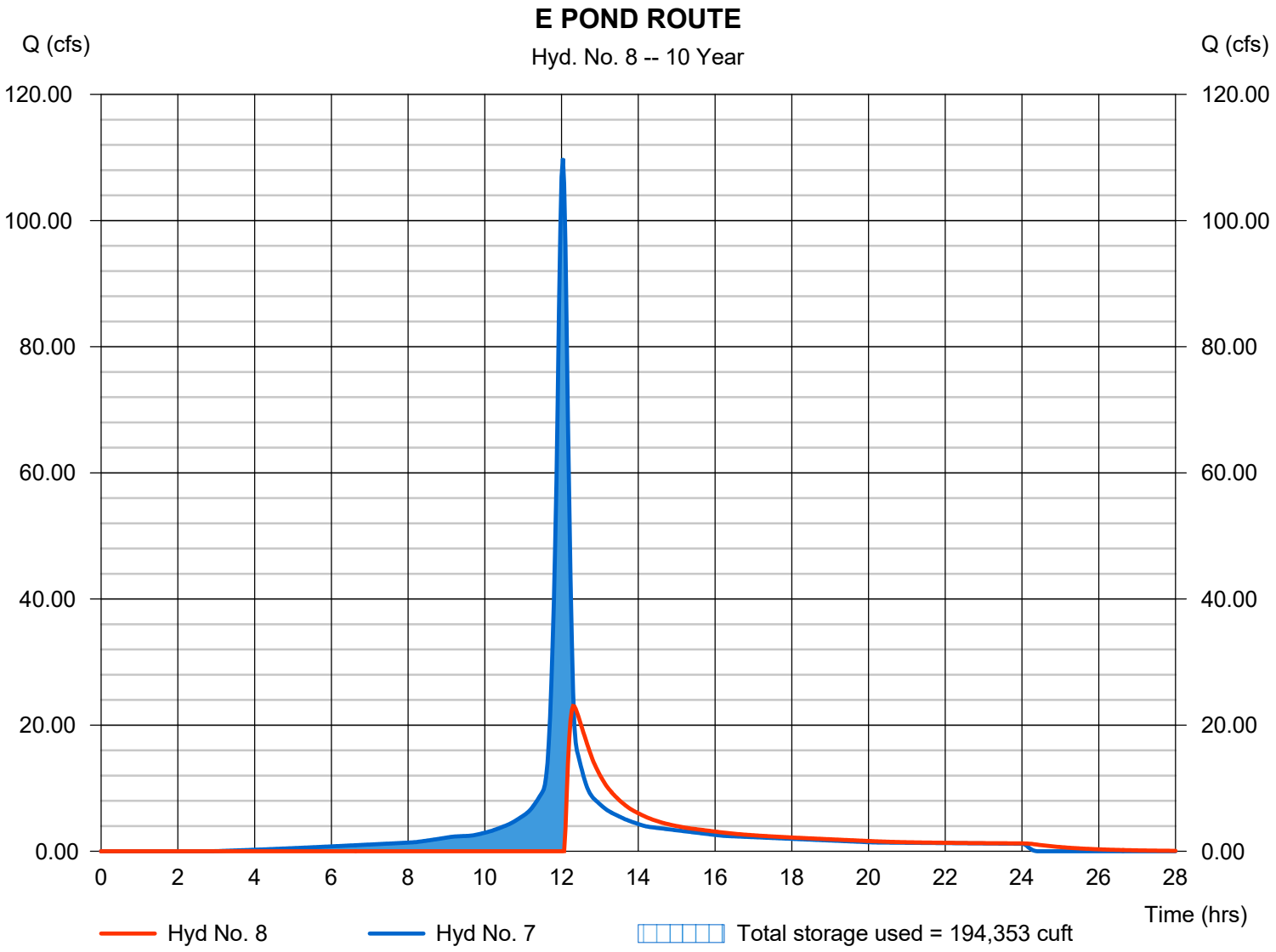
Hydrograph Report

Hyd. No. 8

E POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	23.03 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.30 hrs
Time interval	=	2 min	Hyd. volume	=	174,988 cuft
Inflow hyd. No.	=	7 - E POND-19.89 AC	Max. Elevation	=	422.88 ft
Reservoir name	=	E POND	Max. Storage	=	194,353 cuft

Storage Indication method used.

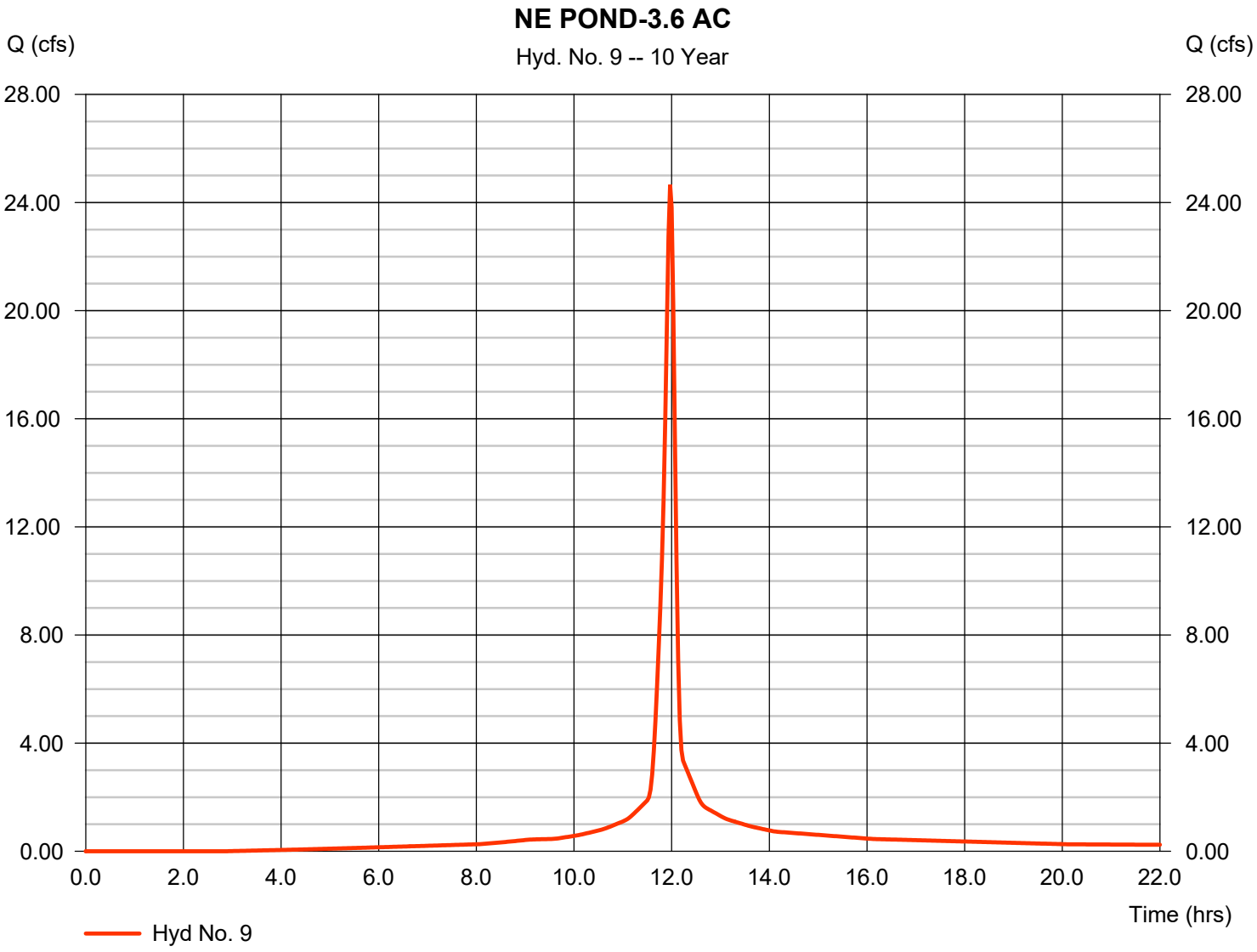


Hydrograph Report

Hyd. No. 9

NE POND-3.6 AC

Hydrograph type	= SCS Runoff	Peak discharge	= 24.66 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.97 hrs
Time interval	= 2 min	Hyd. volume	= 60,858 cuft
Drainage area	= 3.600 ac	Curve number	= 92
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.58 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

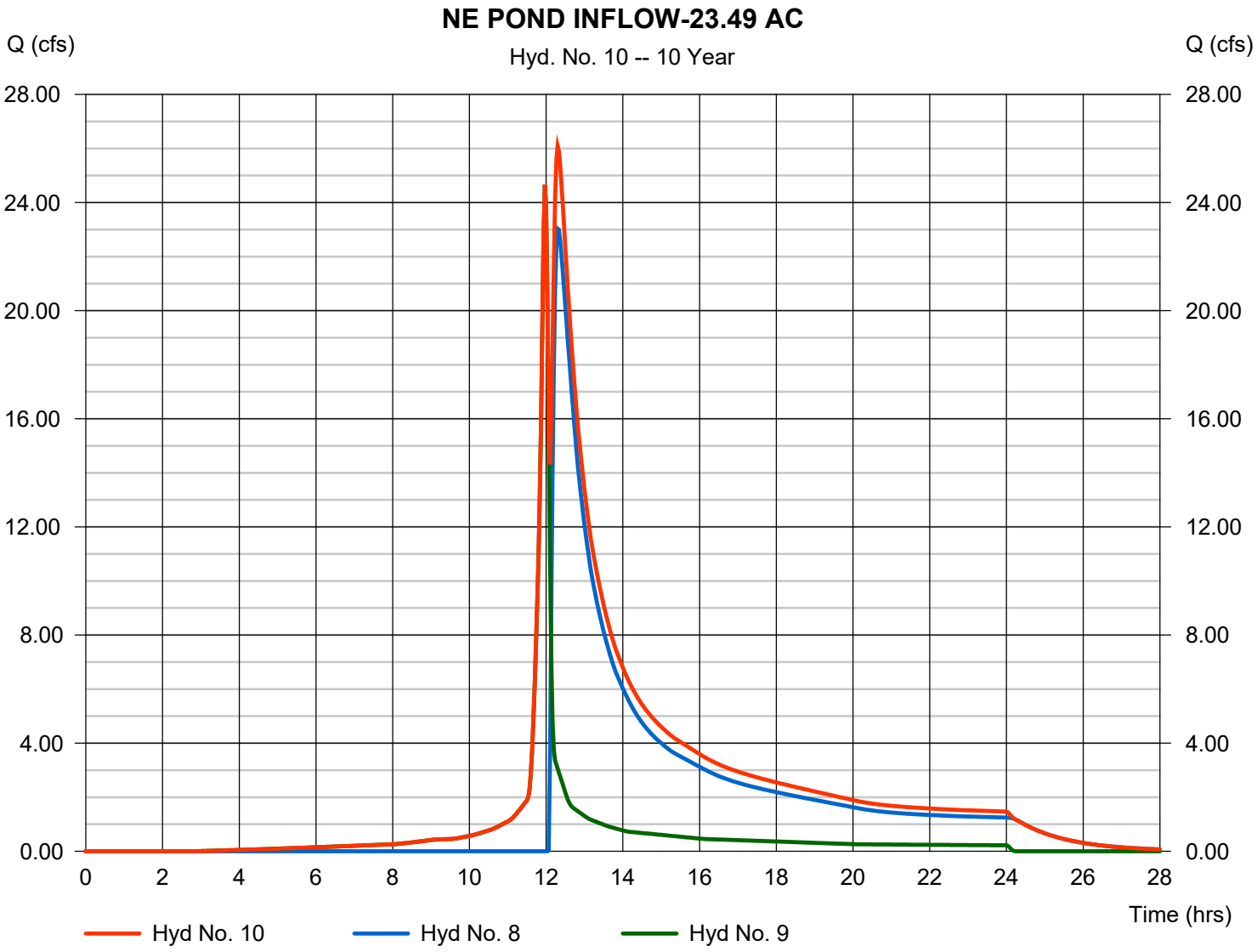


Hydrograph Report

Hyd. No. 10

NE POND INFLOW-23.49 AC

Hydrograph type	=	Combine	Peak discharge	=	26.09 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.30 hrs
Time interval	=	2 min	Hyd. volume	=	235,846 cuft
Inflow hyds.	=	8, 9	Contrib. drain. area	=	3.600 ac



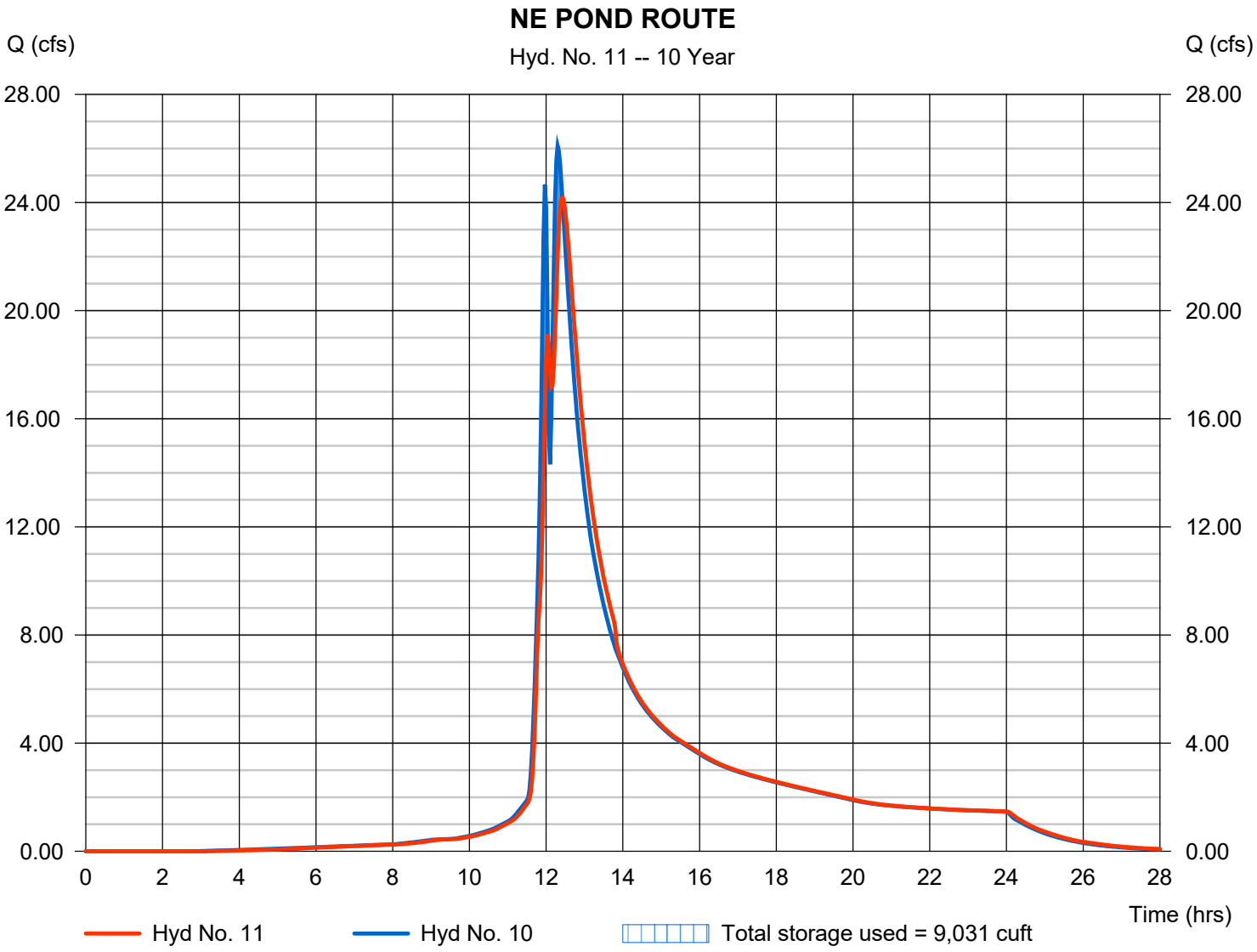
Hydrograph Report

Hyd. No. 11

NE POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	24.18 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.43 hrs
Time interval	=	2 min	Hyd. volume	=	235,843 cuft
Inflow hyd. No.	=	10 - NE POND INFLOW-23.49Ac	Max. Elevation	=	401.76 ft
Reservoir name	=	NE POND	Max. Storage	=	9,031 cuft

Storage Indication method used.

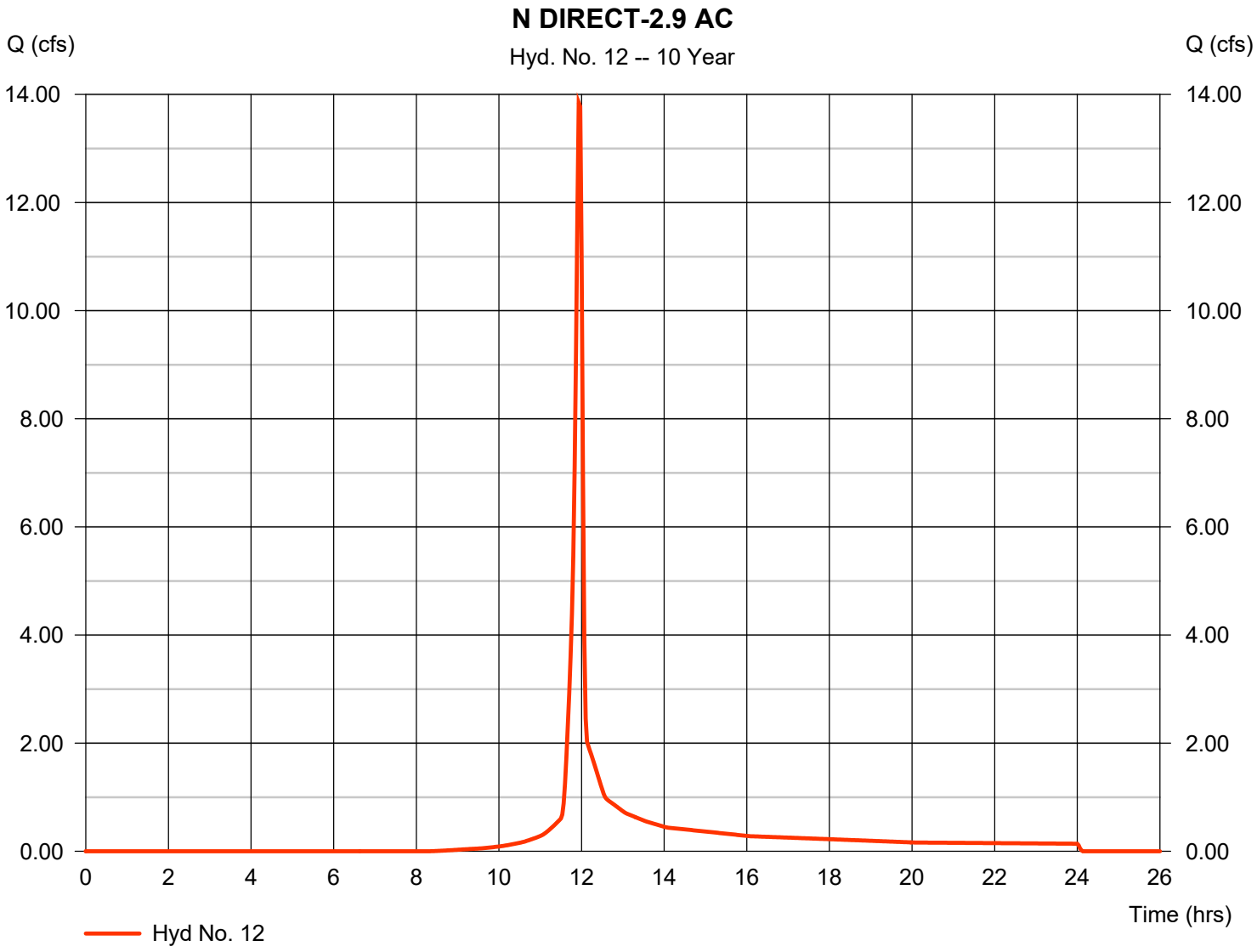


Hydrograph Report

Hyd. No. 12

N DIRECT-2.9 AC

Hydrograph type	= SCS Runoff	Peak discharge	= 13.85 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.93 hrs
Time interval	= 2 min	Hyd. volume	= 27,979 cuft
Drainage area	= 2.900 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.58 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

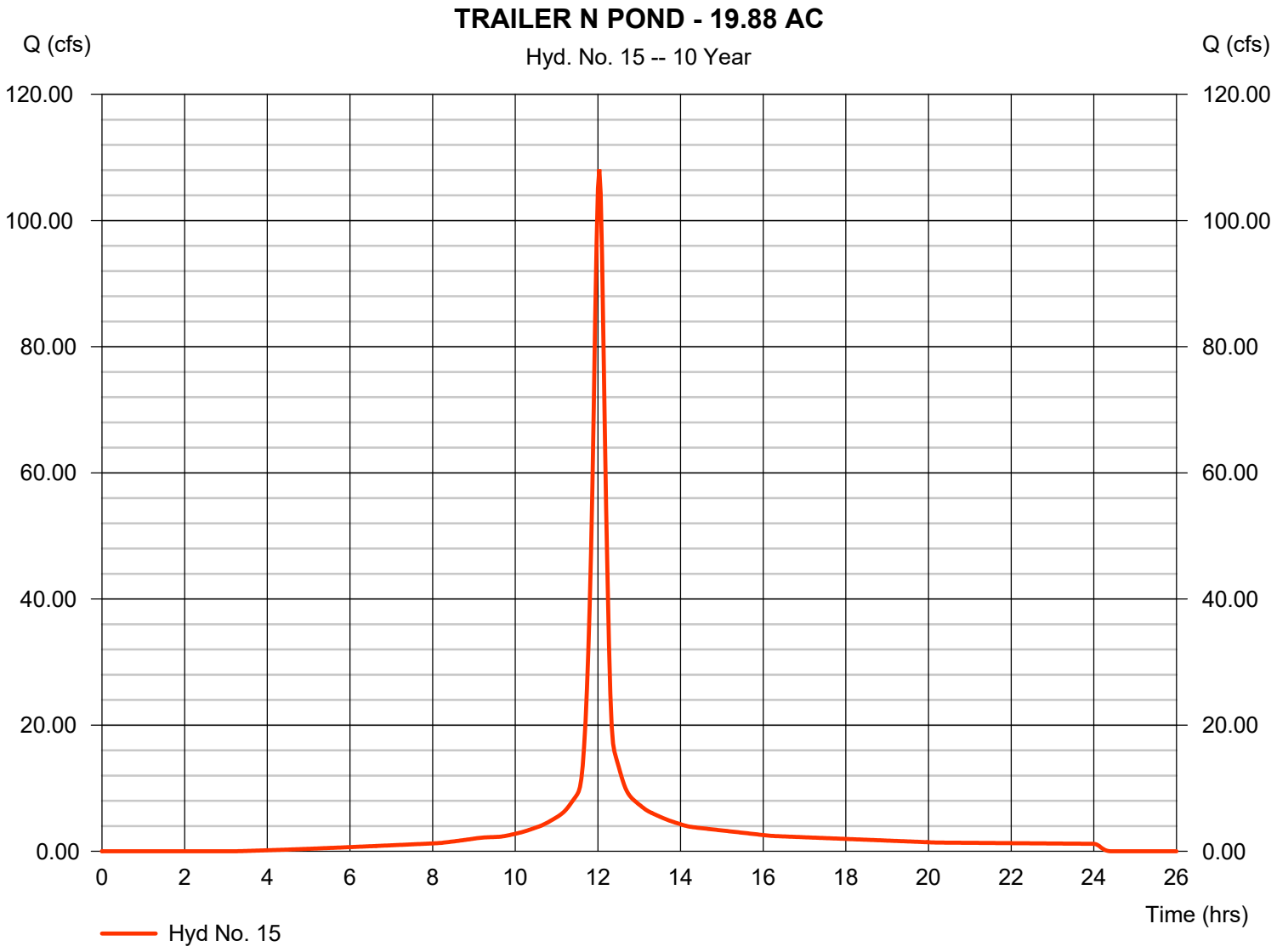


Hydrograph Report

Hyd. No. 15

TRAILER N POND - 19.88 AC

Hydrograph type	=	SCS Runoff	Peak discharge	=	108.11 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.03 hrs
Time interval	=	2 min	Hyd. volume	=	319,908 cuft
Drainage area	=	19.880 ac	Curve number	=	91
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	15.30 min
Total precip.	=	5.58 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

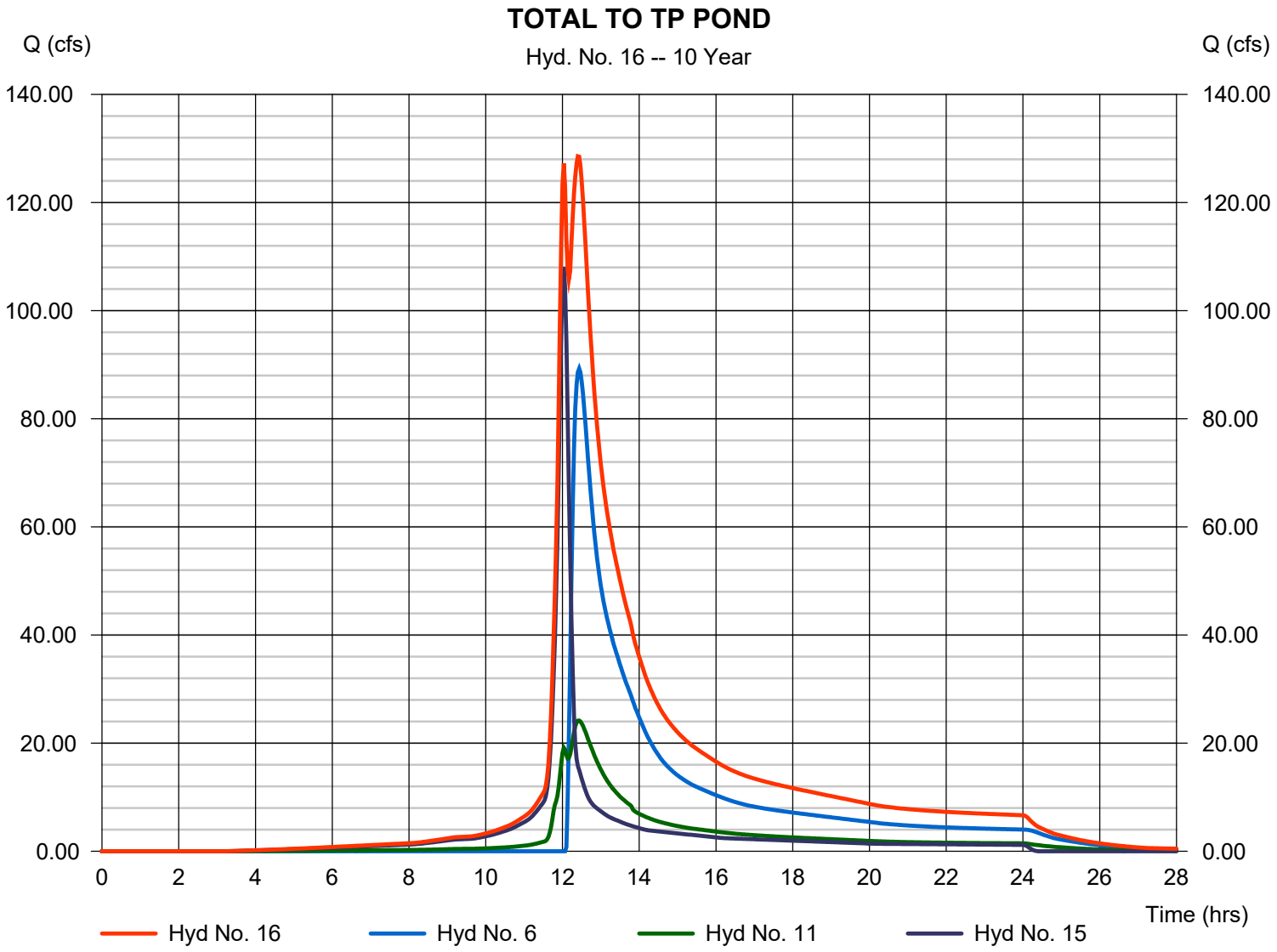


Hydrograph Report

Hyd. No. 16

TOTAL TO TP POND

Hydrograph type	=	Combine	Peak discharge	=	128.56 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.40 hrs
Time interval	=	2 min	Hyd. volume	=	1,196,436 cuft
Inflow hyds.	=	6, 11, 15	Contrib. drain. area	=	19.880 ac



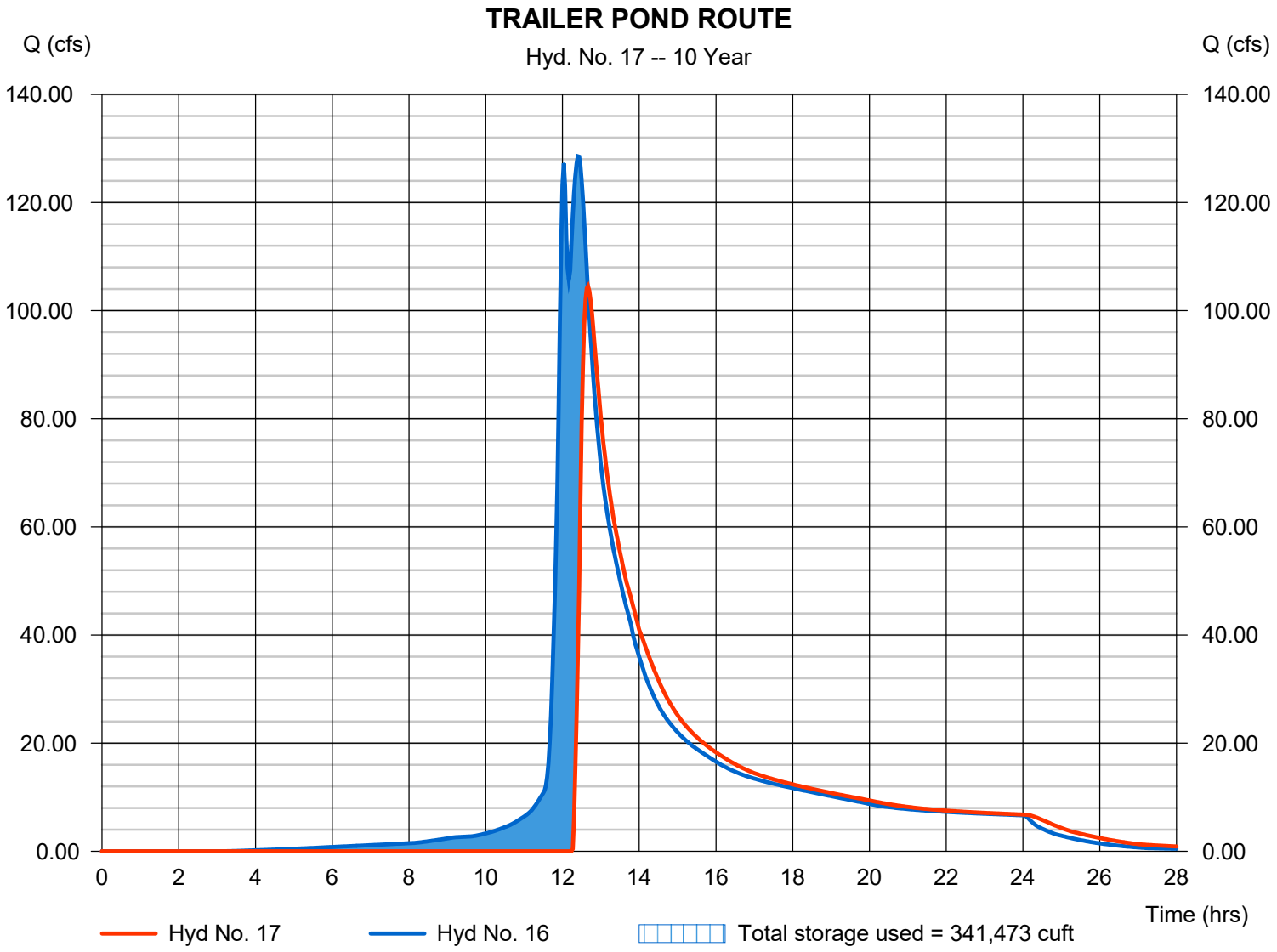
Hydrograph Report

Hyd. No. 17

TRAILER POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	104.52 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.67 hrs
Time interval	=	2 min	Hyd. volume	=	944,546 cuft
Inflow hyd. No.	=	16 - TOTAL TO TP POND	Max. Elevation	=	394.48 ft
Reservoir name	=	TRAILER PARKING POND	Max. Storage	=	341,473 cuft

Storage Indication method used.



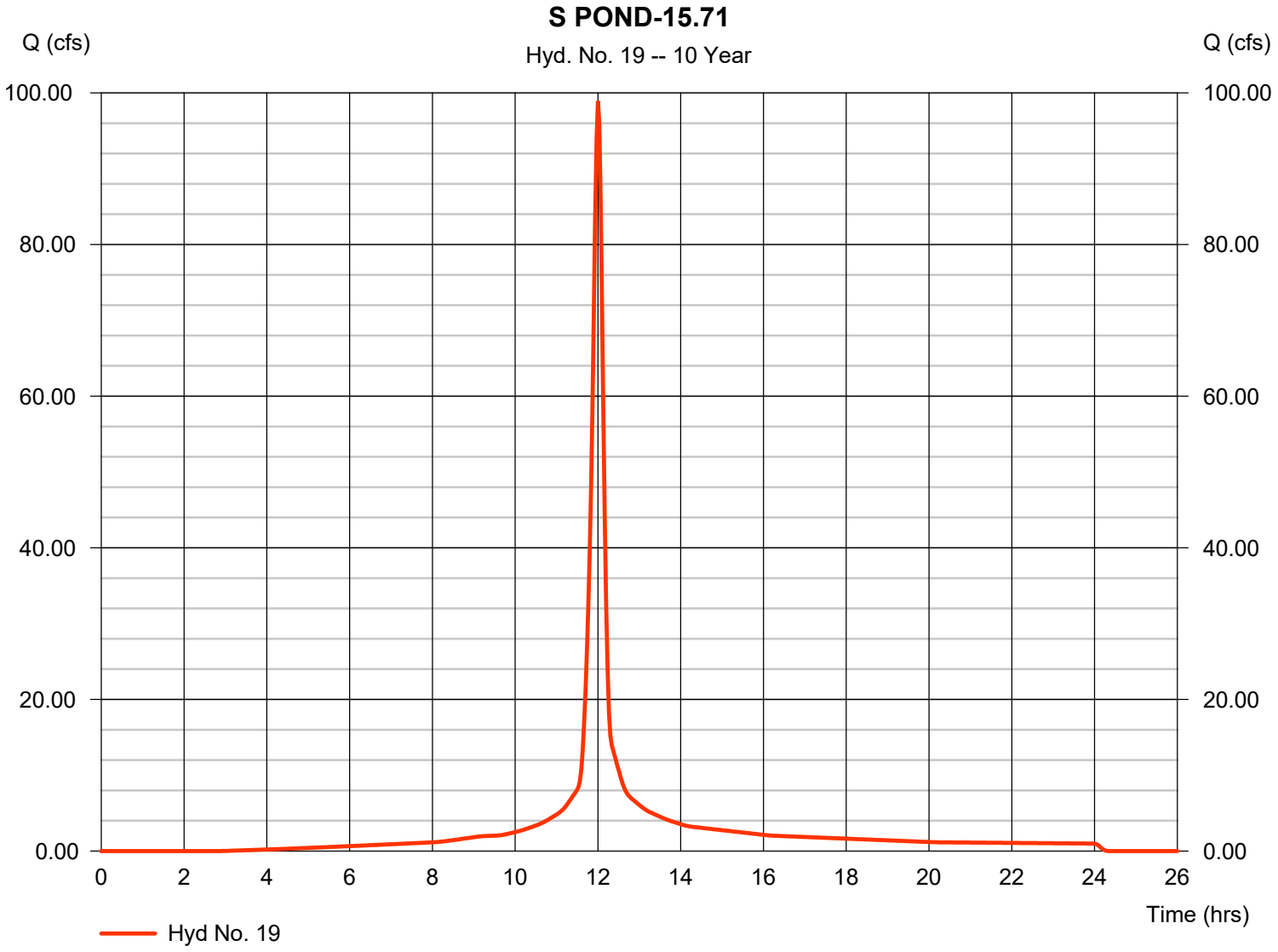
Hydrograph Report

Hyd. No. 19

S POND-15.71

Hydrograph type	=	SCS Runoff	Peak discharge	=	98.93 cfs
Storm frequency	=	10 yrs	Time to peak	=	12.00 hrs
Time interval	=	2 min	Hyd. volume	=	273,876 cuft
Drainage area	=	15.710 ac	Curve number	=	92*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	10.00 min
Total precip.	=	5.58 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = [(3.100 x 98) + (1.590 x 76)] / 15.710



Hydrograph Report

Hyd. No. 20

S POND ROUTE

Hydrograph type	=	Reservoir	Peak discharge	=	3.497 cfs
Storm frequency	=	10 yrs	Time to peak	=	14.03 hrs
Time interval	=	2 min	Hyd. volume	=	122,659 cuft
Inflow hyd. No.	=	19 - S POND-15.71	Max. Elevation	=	423.48 ft
Reservoir name	=	S POND	Max. Storage	=	196,733 cuft

Storage Indication method used.