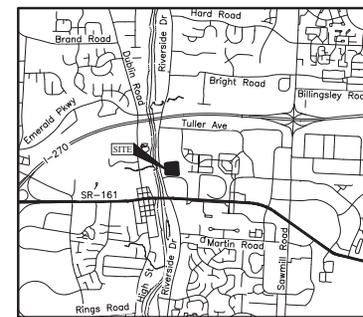


# CITY OF DUBLIN, FRANKLIN COUNTY, OHIO MASS EXCAVATION PLAN FOR **BRIDGE PARK AVE EXTENSION & BLOCK D** 2016



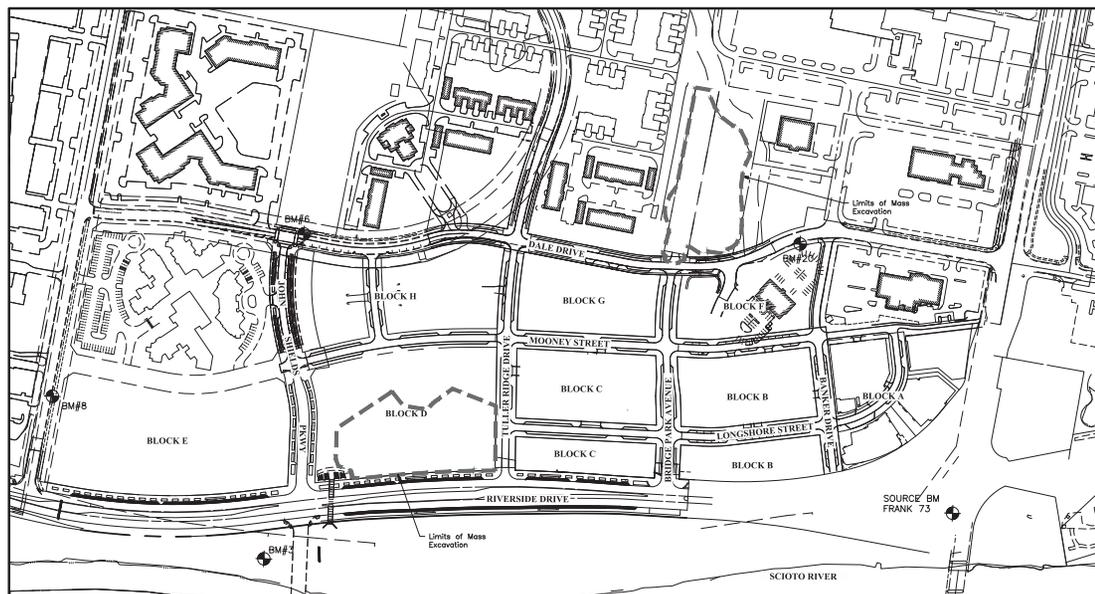
**LOCATION MAP**  
Not to Scale

**SHEET INDEX**

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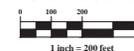
**BENCH MARKS**  
(NAVD 1988)

- Station is a stainless steel rod driven to a depth of 16 feet, in a triangular shaped grass median at the northwest corner of the intersection of Dublin-Granville Road and Riverside Drive, 59.9 feet southeast of the north corner of the median, 28.4 feet northwest of the southeast corner of the median, 20.2 feet northeast of the southwest corner of the median, 2 feet north of a witness post, access through aluminum access cover, level with the sidewalk.
- Source BM Frank 13 Elev. = 801.706
- BM #3 Nail in the East side of power pole #3221341, being on the West side of Riverside Drive and 800 feet South of Tuller Road. Elev. = 800.24
- BM #6 Chiseled "X" on the West bolt of the second fire hydrant South of the intersection of Tuller Road and Existing Tuller Ridge Drive, said hydrant being on the East side of Existing Tuller Ridge Drive. Elev. = 845.50
- BM #8 Chiseled "X" on the North bolt of the second fire hydrant East of the intersection of Riverside Drive and Tuller Road, said hydrant being on the South side of Tuller Road. Elev. = 821.18
- BM #20 Chiseled "X" on the north bolt of the second fire hydrant north of the intersection of Dale Drive and Dublin-Granville Road. Being on the west side of Dale Drive. Elev. = 839.80



**INDEX MAP**  
Scale: 1" = 200'

**GRAPHIC SCALE**



DATE	DESCRIPTION
11/20/14	Initial Review For Issuance for other use.

**CRAWFORD HOYING**  
development

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
MASS EXCAVATION PLAN  
**BRIDGE PARK AVE EXT & BLOCK D**  
TITLE SHEET



DATE	October 7, 2016
SCALE	As Noted
JOB NO.	2013-1481
SHEET	1 / 5

**DEVELOPER**  
Crawford Hoying Development  
555 Metro Place North, Suite 600  
Dublin, Ohio 43017  
Tel: (614) 335-2020  
Fax: (614) 850-9191

**ENGINEER**  
EM&T Inc.  
5500 New Albany Road  
Columbus, Ohio 43054  
Tel: (614) 775-4500  
Fax: (614) 775-4800

**Ohio Utilities Protection Services**  
800-362-2764 or 8-1-1  
www.oups.org

A:\2013\1481\Draws\Sheet\A\Mass\_Excavation.dwg, Plot: Sheet.dwg, User: jshanklin, Date: 10/7/2016 10:15 AM, Plot: 2016









**Erosion & Sediment Control Narrative**

**Plan Engineer:** Evans, Mechwart, Hambleton & Tilton, Inc.  
5500 New Albany Road  
Columbus, OH 43224  
Phone: (614) 775-4500  
Fax: (614) 775-4900

**Property Owner:** City of Dublin  
5800 Shier Kings Road  
Dublin, Ohio 43020  
Phone: 614-410-4600

**Applicant/Developer:** Crawford Hoyle Development  
555 Metro Place North, Suite 600  
Dublin, Ohio 43017  
Tel: (614) 330-2020  
Fax: (614) 650-9191

**Existing Site Description:** Wooded area.

**Site Disturbance:** 2.31 Acres

**Existing Site Drainage Condition:** Sheet drainage to the Southwest to an existing ditch and stream.

**Waterhead:** The site is tributary to the Scioto River.

**Adjacent Areas:** The site is bounded by Dale Drive to the West, a stream to the Southeast, and an existing apartment complex to the North.

**Soils:** The soils onsite consist of Kendallville Silt Loam (KsB), Miami Silt Loam (MkB), Miami Silt Clay Loam (MkC2), Milton Silt Loam (MkS & Mck2), and Ritchey Silt Loam (RkS) according to the NRCS Web Soil Survey.

**Critical Areas:** Ensure that the sediment control measures are properly installed and maintained along the existing stream.

**Erosion & Sediment Control Measures:** Perimeter sediment fence will be installed onsite to assist with sediment removal prior to the runoff flowing into the stream and ditch. Temporary and permanent seeding and mulching applications will be used to stabilize the soil during construction activities.

**Maintenance:** Street cleaning, on an as-needed basis, is required through the duration of this construction project. This includes sweeping, power cleaning and, if necessary, manual removal of dirt and mud in the street gutters. Additional long term maintenance and inspection requirements are listed in the table to the right on this sheet.

**Construction Sequence:** Prior to Construction Operations in a particular area, all sedimentation and erosion control features shall be in place. The Contractor shall place silt fence protection for the erosion control immediately after construction of the catch basins or inlets which are not tributary to a sediment basin or dam.

It may become necessary to remove portions of the barrier during construction to facilitate the grading operations in certain areas. However, the barrier shall be in place in the evening or during any inclement weather.

The limits of seeding and mulching have been established as 5'-0" outside the grading limits or 20'-0" beyond the right-of-way, whichever is greater. All areas not designated to be seeded shall remain under natural ground cover. Those areas disturbed outside the seeding limits shall be seeded and mulched at the Contractor's expense. "Temporary seeding" No area for which grading has been completed shall be left unseeded or unmulched for longer than 14 days. If permanent seed is not applied at this time, temporary seeding shall be done at the following rates:

<b>March 1 to August 15</b>	Seed: Oats	2 lbs./1,000 Sq.Ft.
	Fertilizer (12:12:12)	12 1/2 lbs./1,000 Sq.Ft.
	Mulch (Straw or Hay)	2 tons/acre
<b>August 15 to November</b>	Seed: Annual Ryegrass	2 lbs./1,000 Sq.Ft.
	Fertilizer (12:12:12)	12 1/2 lbs./1,000 Sq.Ft.
	Mulch (Straw or Hay)	2 tons/acre
<b>November 1 to March 1</b>	Mulch (ONLY) (Straw or Hay)	2 tons/acre

"Permanent seeding" shall be done between March 15 and September 15. If seeding is done between September 15 and March 15, it shall be classified as "Temporary Seeding." Permanent seeds shall be 40% Kentucky Bluegrass, 40% Creeping Red Fescue, 20% Annual Ryegrass. Permanent seeding shall consist of fertilizing, watering and seeding rates indicated under item 659. Seeding shall be applied within two(2) days after final grading or following seed bed preparation.

**Rate of application of Item 659:**

Seed:	2 lbs./1,000 Sq.Ft.
Fertilizer (12:12:12)	25 lbs./1,000 Sq.Ft.
Mulch (Straw or Hay)	2 tons/acre

The cost for temporary channels, sediment dams, sediment basins, and other appurtenant earthmoving operations shall be included in the price bid for erosion and sedimentation control quantities.

**MAINTENANCE:** It is the Contractor's responsibility to maintain the sediment control features used on this project. The site shall be inspected periodically and within 24 hours of a significant rainfall. Records of these inspections shall be kept and made available to jurisdictional agencies if requested. Any sediment or debris which has reduced the efficiency of a structure shall be removed immediately. Should a structure or feature become damaged, the Contractor shall repair or replace at no additional cost to the Owner. Not all details shown on this sheet may be required for this project.

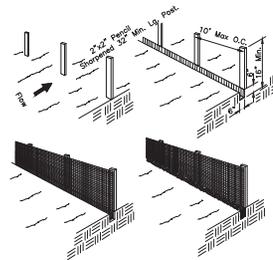
**SCHEDULE:** The Contractor shall provide a schedule of operations to the owner. Sedimentation and erosion control features shall be placed in accordance with this schedule.

Block D OCEPA NOI Permit - 400047344AG

All Erosion & Sediment Control practices are subject to Field Modification at the direction of the City of Columbus and/or Ohio EPA.

This plan must be posted on-site. A copy of the SWPPP plan and the approved EPA Stormwater Permit (with the site specific NOI number) shall be kept on-site at all times.

**CONTRACTOR RESPONSIBILITY:** Details have been provided on the plans in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternate details may be found in the O.D.N.R. Manual "Stormwater and Land Development." The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection in compliance with the NPDES General Permit for Storm Water Discharges Associated with Construction Activity.



**SEDIMENT FENCE DETAIL**  
Not To Scale  
Minimum Criteria for Silt Fence Fabric

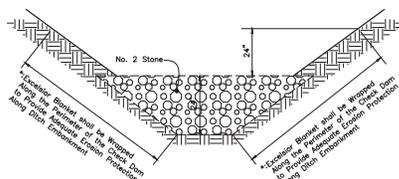
The use of straw wattles has proven to be a versatile and effective EDC BMP, especially in residential settings. Straw wattles may be substituted for silt fence in linear installations.

- The Height of a Silt Fence shall not Exceed 36 Inches (Higher Fences May Impound Volumes of Water Sufficient to Cause Failure of the Structure).
- The Filter Fabric shall be Purchased in a Continuous Roll Cut to the Length of the Barrier to Avoid the Use of Joints. When Joints are Necessary, Filter Cloth shall be Spliced Together Only at a Support Post, with a Minimum of a 6-inch Overlap, and Securely Sealed.
- Posts shall be Spaced a Maximum of 10 Feet apart at the Barrier Location and Driven Securely into the Ground (Minimum Of 12 Inches).
- A Trench shall be Excavated Approximately 6 Inches Wide and 6 Inches Deep Along the Line of Posts and Upstage from the Barrier.
- The Filter Fabric shall be Staked or Wired to the Fence, And 8-Inches of the Fabric shall be Extended into the Trench. The Fabric shall not Extend More than 36 Inches above the Original Ground Surface. Filter Fabric shall not be Staked to Existing Trees.
- The Trench shall be Backfilled and Soil Compacted Over the Filter Fabric.
- Silt Fences shall be Removed when they have Served their Useful Purpose, but not Before the Upstage Area has been Permanently Stabilized.

**Maintenance:** Silt Fences and Filter Barriers shall be Inspected Immediately After Each Rainfall and at Least Daily During Prolonged Rainfall. Any Required Repairs shall be Made Immediately. Should the Fabric on a Silt Fence or Filter Barrier Decompose or Become Ineffective Prior to the End of the Expected Usable Life and the Barrier is Still Necessary, the Fabric Shall be Replaced Promptly.

Sediment Deposits Shall be Removed After Each Storm Event. They must be Removed when Deposits Reach Approximately One-half the Height of the Barrier.

Any Sediment Deposits Remaining in Place After the Silt Fence or Filter Barrier is no Longer Required shall be Dressed to Conform with the Existing Grade, Prepared and Seeded.



**Maintenance:** Aggregate Check Dams shall be Inspected Immediately After Each Rainfall and at Least Daily During Prolonged Rainfall.

Close Attention shall be Paid to the Repair of Damaged Check Dams, End Runs and Undercutting Beneath Dams.

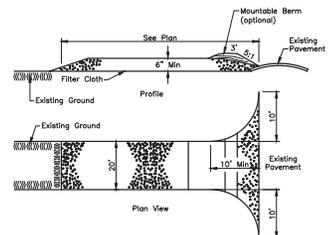
Necessary Repairs to Check Dams shall be Accomplished Promptly.

Any Sediment Deposits Remaining in Place After the Aggregate is no Longer Required shall be Dressed to Conform to the Proposed Grade, Prepared and Seeded.

Sediment Deposits Should be Removed After Each Rainfall. They must be Removed when the Level of Deposition Reaches Approximately one-half the Height of the Barrier.

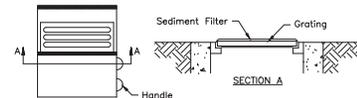
**ROCK CHECK DAM**  
(Use as Warranted)

\* Excelsior Matting shall be Cortech Standard Grade Excelsior Blanket (etb) or Approved Equivalent. Installation shall be in Accordance with the Manufacturer's Specification.



- Construction Specifications**
- Stone Size - Use 2" Stone, or Reclaimed or Recycled Concrete Equivalent.
  - Length - as Required.
  - Thickness - not Less than Six (6) Inches.
  - Width - Twenty (20) Foot Minimum, but not Less than the Full Width of Points where Ingress or Egress Occurs.
  - Filter Cloth - will be Placed Over the Entire Area Prior to Placing of Stone.
  - Surface Water - All Surface Water Flowing or Diverted Toward Construction Entrances shall be Piped Across the Entrance. If Piping is Impractical, a Mountable Berm with 6:1 Slopes will be Permitted. Cost of Pipe shall be Included in the Price Bid for the Stabilized Construction Entrance.
  - Maintenance - The Entrance shall be Maintained in a Condition which will Prevent Tracking or Flowing of Sediment onto Public Right-of-Way. This may Require Periodic Top Dressing with Additional Stone or conditions Demand and Repair and/or Removal of any Measures used to Trap Sediment. All Sediment Spilled, Dropped, Washed or Tracked onto Public Rights-of-Way must be Removed Immediately.
  - Washing - Wheels shall be Cleaned to Remove Sediment Prior to Entrance onto Public Right-of-Ways. When Washing is Required, it shall be Done on an Area Stabilized with Stone and which Drains into an Approved Sediment Trapping Device.
  - Periodic Inspection and Needed Maintenance shall be Provided After Each Rain.

**STABILIZED CONSTRUCTION ENTRANCE**  
Not To Scale



**Installation:** Stand grate on end. Place Catch Basin Protection Bag over grate. Roll grate over so that open end is up. Pull up slack. Tuck flap in. Be sure end of grate is completely covered by flap or Catch Basin Protection Bag will not fit properly. Holding handles, carefully place Catch Basin Protection Bag with grate inserted into catch basin frame so that red dot on the top of the Catch Basin Protection Bag is visible.

**Maintenance:** With a stiff bristle broom or square point shovel, remove silt & other debris off surface after each event.

**Note:** 1. Dandy Bag, FryeFlow Systems Inlet Protection, FLEXSTORM Inlet Filter or approved equal are acceptable.

**CATCH BASIN SEDIMENT FILTER DETAIL**  
Scale: Not to Scale

REVISIONS
DATE
DESCRIPTION

CRAWFORD HOYLE Development  
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO  
MASS EXCAVATION PLAN  
**BRIDGE PARK AVE. EXT. & BLOCK D**  
SEDIMENT & EROSION CONTROL NOTES AND DETAILS



DATE	October 7, 2016
SCALE	None
JOB NO.	2013-1481
SHEET	6/6

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