

J:\20131481\Draw\Temp\BLOCK F\Mass Ex\01 Title Sheet.dwg Last Saved By: ipeltier 8/25/2017 2:51 PM Last Printed By: Peltier, James 8/25/2017 2:53 PM (No Xrefs)

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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.

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.

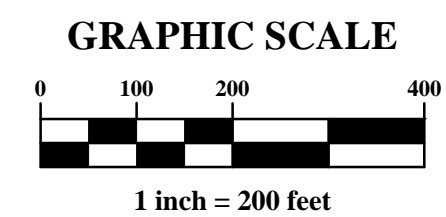
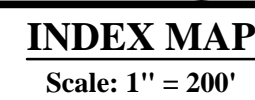
Elev. = 845.50

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



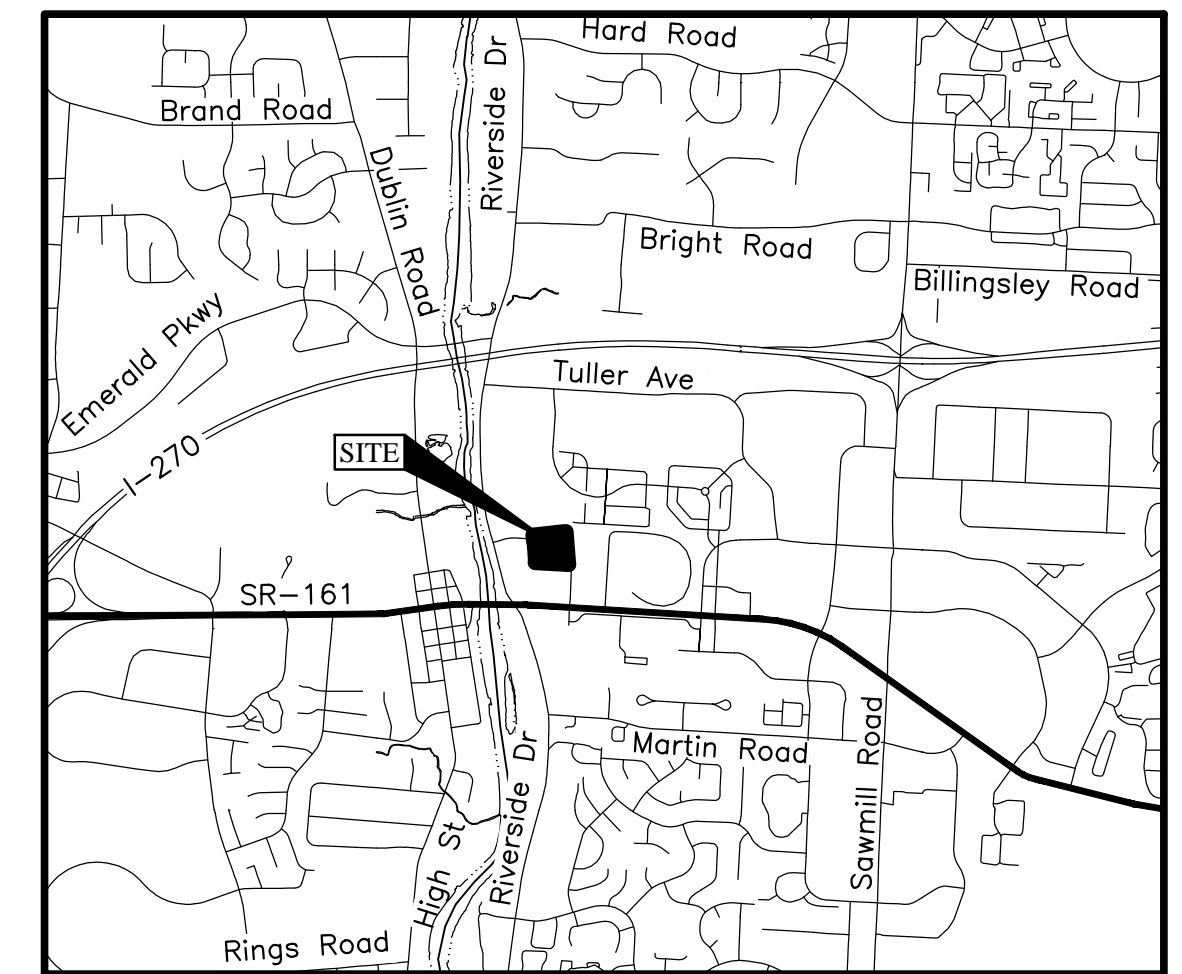
Crawford Hoying Development
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Date _____



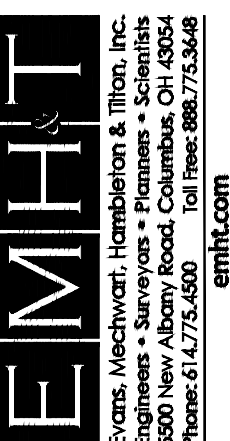
CUSTOMER LETTER

MARK	DATE	DESCRIPTION
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CRAWFORD HOYING
development

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
MASS EXCAVATION PLAN
FOR
BRIDGE PARK BLOCK F
TITLE SHEET



August 25, 2017

As Noted

2013-1481

1/4

1. City of Columbus and Ohio Department of Transportation Construction and Material Specifications, current editions, and any supplements thereto (hereafter referred to as Standard Specifications), shall govern all construction items unless otherwise noted. If a conflict between specifications is found, the more strict specification will apply as decided by the City Engineer. Item Numbers listed refer to City of Columbus Item Numbers unless otherwise noted.
2. The City Engineer will not be responsible for means, methods, procedures, techniques, or sequences of construction that are not specified herein. The City Engineer will not be responsible for safety on the work site, or for failure by the Contractor to perform work according to contract documents.
3. The Employer or Contractor shall be responsible to obtain all necessary permits including but not limited to Ohio EPA Permits to Install (PTI) and Notices of Intent (NOI), Building Permits, etc.
4. The Contractor shall notify the City of Dublin Division of Engineering in writing at least 3 working days prior to beginning construction.
5. The Contractor shall be solely responsible for complying with all federal, state and local safety requirements including the Occupational Safety and Health Act of 1970. The Contractor shall exercise precaution always for the protection of persons (including employees) and property. It shall also be the sole responsibility of the Contractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work, including the requirements for confined spaces per 29 CFR 1910.146.
6. Following completion of construction of the site improvements and before requesting occupancy, a proof survey shall be provided to the Division of Engineering that documents "as-built" elevations, dimensions, slopes and alignments of all elements of this project. The proof survey shall be prepared, signed and submitted by the Professional Engineer who sealed the construction drawings.
7. The Contractor shall restrict construction activity to public right-of-way and areas defined as permanent and/or temporary construction easements, unless otherwise authorized by the City Engineer.
8. The Contractor shall carefully preserve bench marks, property corners, reference points, stakes and other survey reference monuments or markers. In cases of willful or careless destruction, the Contractor shall be responsible for restorations. Resetting of markers shall be performed by an Ohio Professional Surveyor as approved by the City Engineer.
9. Non-rubber tired vehicles shall not be moved on or across public streets or highways without the written permission of the City Engineer.
10. The Contractor shall restore all disturbed areas to equal or better condition than existed before construction. Drainage ditches or water courses that are disturbed by construction shall be restored to the grades and cross-sections that existed before construction.
11. Tracking or spilling mud, dirt, or debris upon streets, residential or commercial drives, sidewalks or bike paths is prohibited according to Section 97.38 of the Dublin Code of Ordinances. Any such occurrence shall be cleaned up immediately by the Contractor at no cost to the City. If the Contractor fails to remove said mud, dirt, debris, or spillage, the City reserves the right to remove these materials and clean affected areas, the cost of which shall be the responsibility of the Contractor.
12. Disposal of excess excavation within Special Flood Hazard Areas (100-year floodplain) is not permitted.
13. All signs, landscaping, structures or other appurtenances within right-of-way disturbed or damaged during construction shall be replaced or repaired to the satisfaction of the City Engineer. The cost of this work shall be the responsibility of the Contractor.
14. All field tile broken or encountered during excavation shall be replaced or repaired and connected to the public storm sewer system as directed by the City Engineer. The cost of this work shall be the responsibility of the Contractor.
15. All precast concrete products shall be inspected at the location of manufacture. Approved precast concrete products will be stamped or have such identification noting that inspection has been conducted by the City of Columbus. Precast concrete products without proof of inspection shall not be approved for installation.
16. Backfill within a 1:1 influence line of existing structures (houses, garages, etc.) or public infrastructure (pavement, curbs, sidewalks, bike paths, etc.) shall be compacted granular backfill according to Item 912 of the Standard Specifications or Flowable CDF, Type III according to Item 613. Item 911 of the Standard Specifications may be used elsewhere.
17. The Contractor shall submit a copy of the approved construction drawings and a list of proposed precast concrete product manufacturers to the City of Columbus Construction Inspection Division before commencing construction.

Send the information to the following address:
Construction Inspection Division
City of Columbus
1800 East 17th Avenue
Columbus, Ohio 43219

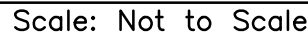
Send a copy of the transmittal letter to the following address:
Division of Engineering
City of Dublin
5800 Shier Rings Road
Dublin, Ohio 43016

18. All trenches within public right-of-way shall be backfilled according to the approved construction drawings or securely plated during nonworking hours. Trenches outside these areas shall be backfilled or shall be protected by appropriate temporary fencing or barricades during nonworking hours. Clean-up shall follow closely behind the trenching operation.
19. All trees within the construction area not specifically designated for removal shall be preserved, whether shown or not shown on the approved construction drawings. Trees to be preserved shall be protected with high visibility fencing placed a minimum 15 feet from the tree trunk. Trees 6-inches or greater at DBH (Diameter Breast Height) must be protected with fencing placed at the critical root zone or 15 feet, whichever is greater. Trees not indicated on the approved construction drawings for removal may not be removed without prior approval of the Division of Engineering.
20. Conduit must be directionally bored across streets instead of open cut, unless specifically approved by the City Engineer. Use of pneumatic air ram devices is not permitted. Permits to construct in the right-of-way of existing streets must be obtained from the City of Dublin Division of Engineering before commencing construction. Should open cutting of existing pavement be permitted, Controlled Density Backfill (Type III) shall be used in place of compacted granular backfill, according to Item 613 of the Standard Specifications.
21. The Contractor shall be responsible for the condition of trenches within the right-of-way and public easements for a period of one year from the final acceptance of the work, and shall make any necessary repairs at no cost to the City.
22. Pavements shall be cut in neat, straight lines the full depth of the existing pavement, or as required by the City Engineer. Pavement replacement shall be conducted according to City of Columbus Standard Drawing 1441 and applicable City of Dublin standard drawings. The replacement of driveways, handicapped ramps, sidewalks, bike paths, parking lot pavement, etc. shall be provided according to the approved construction drawings and City of Dublin standard construction drawings.
23. Tree trimming within the construction zone is to be completed by a certified Arborist. At the completion of the project the Arborist is to return and trim any broken branches as needed.
24. Any modification to the work shown on drawings must have prior written approval by the City Engineer, City of Dublin.
25. All inlets shall be channelized.
26. Park areas shall be fine-graded and seeded with the following mixture:
Improved Kentucky Bluegrass, 40% of weight (2 varieties in equal parts)
Improved Perennial Ryegrass, 60% of weight (2 varieties in equal parts)
Germination Rate: 85%
Application Rate: 7 lbs per 1000 sq ft as directed by the Division of Parks & Recreation, City of Dublin, Ohio.
27. Traffic control and other regulatory signs shall be Type S with a square post anchor base installation and meet all requirements of ODOT TC-41.20 and applicable City of Dublin specifications.
28. Street signs shall meet all City of Dublin specifications with lettering colored in white displayed over a brown background. Sign tubing shall be brown in color and conform with the Type S, square post anchor base installation requirements of ODOT TC-41.20.

1. The following utilities are known to be located within the limits of this project:			
Columbia Gas of Ohio Attn. Tammy Schmid 200 Civic Center Drive, 4th Floor Columbus, Ohio 43215 1-800-440-6111	City of Dublin Division of Engineering Ken Richardson, P.E. 5800 Shier Rings Road Dublin, Ohio 43016 (614) 410-4631	XO Communications Jeremy Johnson 10 West Broad Street, Suite #300 Columbus, Ohio 43215 (614) 148-1473	City of Columbus Division of Water 910 Dublin Road, 2nd Floor Columbus, Ohio 43215 (614) 645-7677
American Electric Power Robin Hand Engineering Liaison Coordinator 850 Tech Center Drive Gahanna, Ohio 43230-6605 (614) 883-6829	Time Warner Cable Kevin Rich 1266 Dublin Road Columbus, Ohio 43215 (614) 481-5263	Time Warner Cable Telecom Mark Blackburn 1266 Dublin Road Columbus, Ohio 43215 (614) 481-5263	Wide Open West Ken Holdreifer Engineering Manager 3675 Corporate Drive Columbus, Ohio 43231

1. High Density Polyethylene (HDPE) corrugated pipe with integrally formed smooth interior wall, ADS N-12 or approved equal, is an approved alternate to reinforced concrete pipe in paved and non-paved areas.
2. HDPE pipe joints shall be made using watertight couplers with "O"-ring gasket, ADS WT of approved equal, where rubber "O"-ring gasket (ASTM C-361) pipe is required on approved constructions plans or within contract documents. All other pipe shall have a bell and spigot joint with rubber gasket meeting ASTM F477.
3. All bedding material shall be in accordance with City of Columbus Standard Construction Drawing AA-S149.

No Scale



The diagram illustrates the typical details of a filter cloth installation in two views: Profile and Plan View.

Profile View: Shows a cross-section of the installation. The filter cloth is placed over a 6" Min. thick layer of material. A Mountable Berm (optional) is shown on top, with a 3' width. The existing pavement is shown on the right.

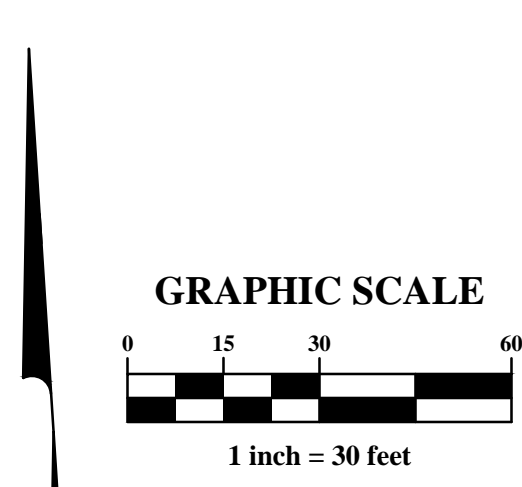
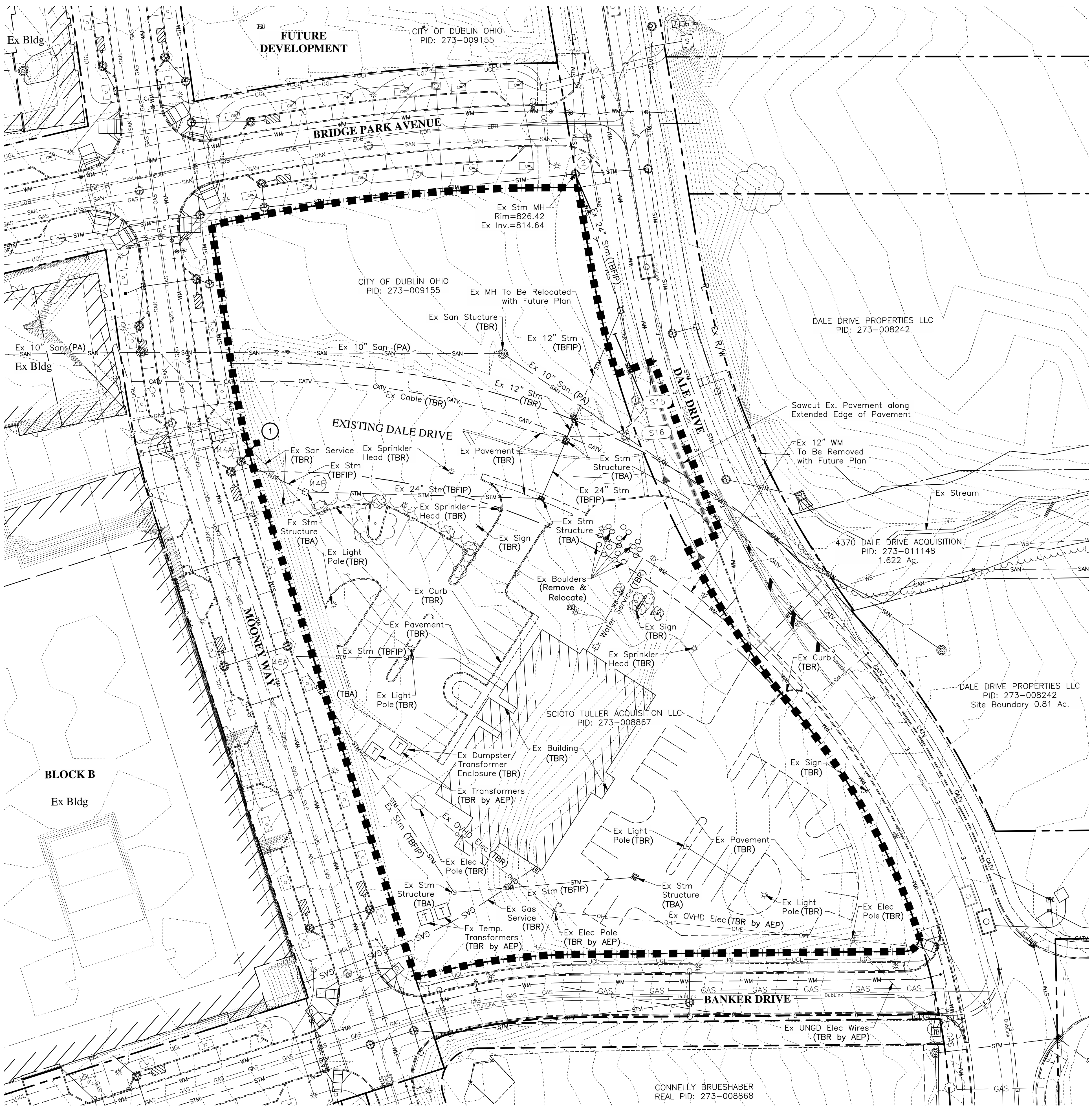
Plan View: Shows a top-down view of the installation. The filter cloth is shown extending 20' from the existing ground line. A 10' Min. overlap is shown with the existing pavement. The existing pavement is shown on the right.

1. Stone Size - Use 2" Stone, or Reclaimed or Recycled Concrete Equivalent.
2. Length - as Required.
3. Thickness - not Less than Six (6) Inches.
4. Width - Twenty (20) Foot Minimum, but not Less than the Full Width at Point of Egress Occurs.
5. Filter Cloth - will be Placed Over the Entire Area Prior to Placing of Stone.
6. Surface Water - All Surface Water Flowing or Diverted Toward Construction Across the Entrance. If Piping is Impractical, a Moundable Berm with 5:1 Slope of Pipe shall be Included in the Price Bid for the Stabilized Construction Egress.
7. Maintenance - The Entrance shall be Maintained in a Condition which will prevent Sediment onto Public Right-of-Way. This may Require Periodic Top Dressing as conditions Demand and Repair and/or Cleanout of any Measures used to prevent Sediment Spilled, Dropped, Washed or Tracked onto Public Rights-of-Way are Immediately.
8. Washing - Wheels shall be Cleaned to Remove Sediment Prior to Entrance. When Washing is Required, it shall be Done on an Area Stabilized with Stone or Approved Sediment Trapping Device.
9. Periodic Inspection and Needed Maintenance shall be Provided After Each Rain Event.

Not To Scale

EMH&T
Evans, Mechtawi, Hambleton & Tilton, Inc.
Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614/775-4500 Toll Free: 888/775-3648
emhit.com

2/4



- LEGEND**
- WM Existing Watermain
 - WS Existing Water Service
 - STM Existing Storm Sewer
 - SAN Existing Sanitary Sewer
 - CATV Existing Cable TV
 - E Existing Underground Electric
 - DubLink Existing Dublink
 - STM Storm Sewer (By Block B Streets)
 - SAN Sanitary Sewer (By Block B Streets)
 - WM Water Main (By Block B Streets)
 - EDB Electric Duct Bank (By Block B Streets)
 - E UNGD Electric (By Block B Streets)
 - Dublink Dublink Conduit (By Block B Streets)
 - UGL Street Lighting (By Block B Streets)
- Mass Excavation Boundary Limits

- ABBREVIATION LEGEND**
- TBR To Be Removed
 - TBA To Be Abandoned
 - TBFIP To Be Filled In Place
 - PA Previously Abandoned

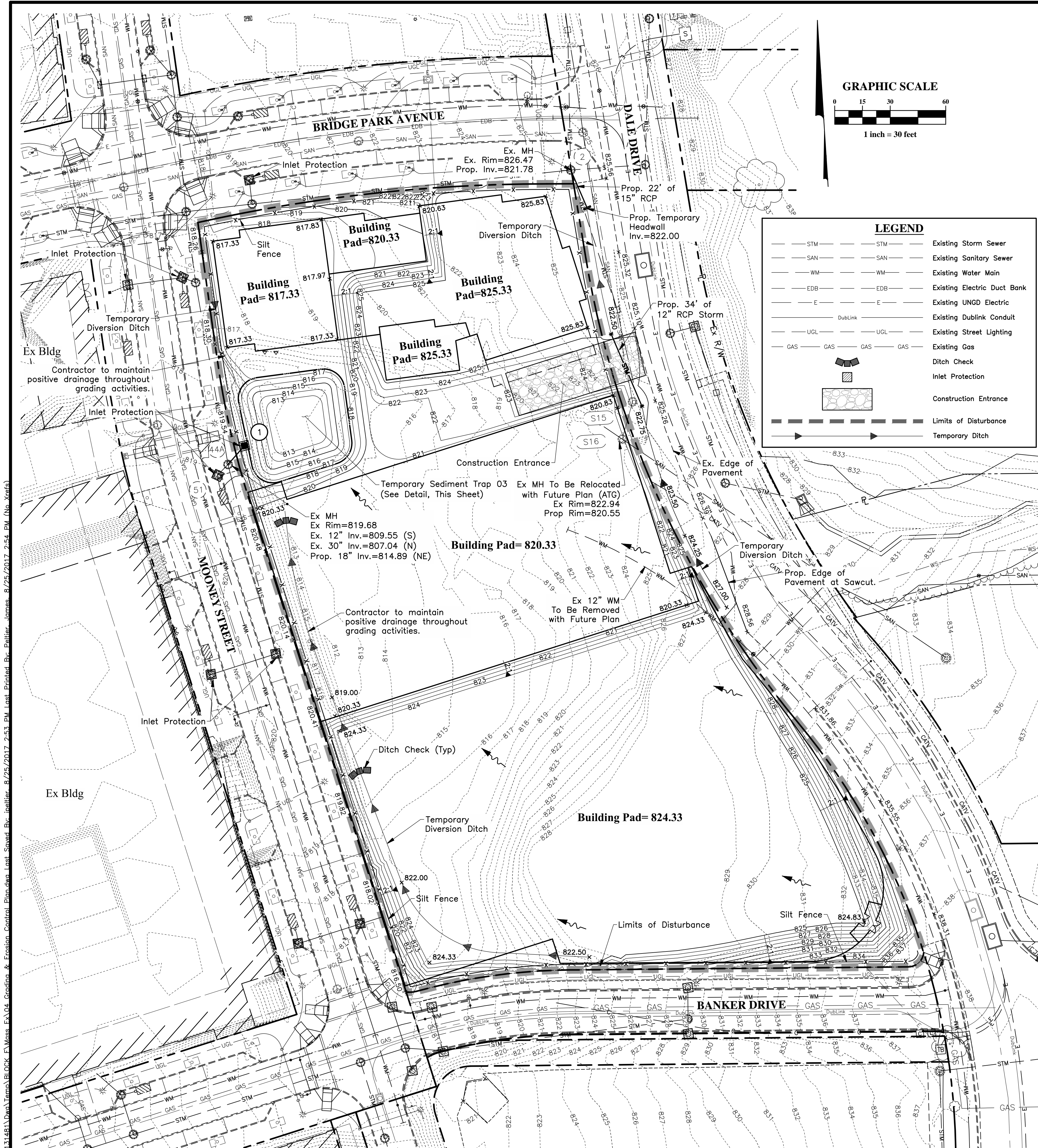
REVISIONS		
MARK	DATE	DESCRIPTION
A	8/15/17	Added Ex. Conditions & Demolition Plan for Block F

CRAWFORD HOYING
development

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
MASS EXCAVATION PLAN
FOR
BRIDGE PARK BLOCK F
EXISTING CONDITIONS & DEMOLITION PLAN

EMHT
Evans, Meacham, Hensley & Thon, Inc.
5900 New Albany Road, Columbus, OH 43254
Phone: 614.775.6500 Toll Free: 888.775.3448
emht.com

DATE	August 25, 2017
SCALE	1" = 30'
JOB NO.	2013-1481
SHEET	3/4



Erosion & Sediment Control Narrative

Plan Engineer: Evans, Mechwart, Hambleton & Tilton, Inc. 5500 New Albany Road Columbus, OH 43054 Phone: (614) 775-4500 Fax: (614) 775-4800

Property Owners: Crawford Hoying Development 6640 Riverside Drive, Suite 500 Dublin, Ohio 43017 Tel: (614) 335-2020 Fax: (614) 850-9191

Applicant/Developer: Crawford Hoying Development 6640 Riverside Drive, Suite 500 Dublin, Ohio 43017 Tel: (614) 335-2020 Fax: (614) 850-9191

Existing Site Description: Grass, Asphalt and Buildings.

Site Disturbance: 2.31 Acres

Existing Site Drainage Condition: Sheet drainage to the West to an existing Inlet.

Watershed: The site is tributary to the Scioto River.

Adjacent Areas: The site is bounded by Dale Drive to the East, Banker Drive to the South, Mooney Street to the West and Bridge Park Avenue to the North.

Soils: The soils onsite consist of Kendallville Silt Loam (KsB), Miamian Silt Loam (MkB), Miamian Silty Clay Loam (MIC2), Milton Silt Loam (MoB & MoC2), and Ritchey Silt Loam (RhB) 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. Field adjustments with respect to locations and dimensions may be made by the Engineer.

The Contractor shall place inlet 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:

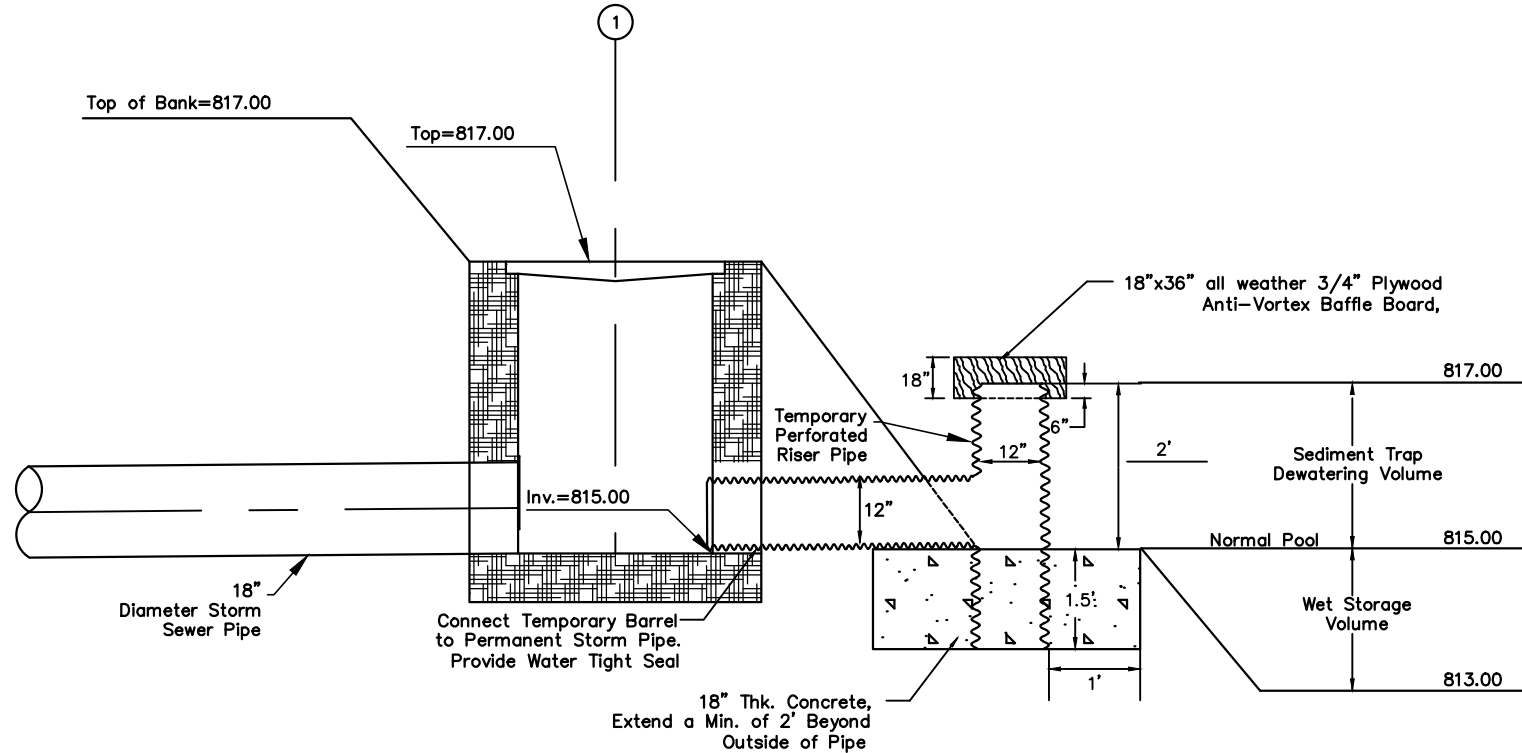
March 1 to August 15		
Seed: Oats	2 lbs./1,000 Sq.Ft.	
Fertilizer: (12:12:12)	12 1/2 lbs./1,000 Sq.Ft.	
Mulch:(Straw or Hay)	2 tons/acre	
August 15 to November		
Seed: Annual Rye	2 lbs./1,000 Sq.Ft.	
Fertilizer: (12:12:12)	12 1/2 lbs./1,000 Sq.Ft.	
Mulch:(Straw or Hay)	2 tons/acre	
November 1 to March 1		
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 seed 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.		
Rates 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.



TEMPORARY SEDIMENT CONTROL STRUCTURE SCHEDULE						
TRAP	TRIBUTARY ACREAGE	DISTURBED ACREAGE	REQUIRED BASIN DEWATERING VOLUME (67 CY/TRIBUTARY AC)	PROVIDED BASIN DEWATERING VOLUME	REQUIRED SEDIMENT STORAGE VOLUME (37 CY/DISTURBED A.C.)	PROVIDED SEDIMENT STORAGE VOLUME
03	2.31 Ac	2.31 Ac	154.8 CY	248.7 CY	85.5 CY	89.4 CY

TEMPORARY SEDIMENT TRAP OUTLET STRUCTURE

REVISIONS

MARK	DATE	DESCRIPTION

CRAWFORD HOYING
development

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
MASS EXCAVATION PLAN
FOR
BRIDGE PARK BLOCK F
GRADING & EROSION CONTROL PLAN

EMHT

Evans, Mechwart, Hambleton & Tilton, Inc.
5500 New Albany Road, Columbus, OH 43054
Phone: (614) 775-4500 Toll Free: 888-775-3448
emht.com

DATE

August 25, 2017

SCALE

1" = 30'

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SHEET

4/4