

BURGESS & NIPLE

5085 Reed Road | Columbus, OH 43220 | 614.459.2050

Mr. Michael B. Nixon
Superintendent
City of Lancaster Water/Water Pollution Control
800 Lawrence Street
Lancaster, OH 43120-9401

Re: Wellhead Protection Zone Development
Proposed County Jail Development Review

RECEIVED
CITY OF LANCASTER

MAY 18 2015

ENGINEERING DEPARTMENT
FILE No. _____

May 14, 2015

Dear Mr. Nixon:

As requested, Burgess & Niple, Inc. (B&N) has reviewed development documents submitted by Bennett & Williams Environmental Consultants, Inc. (Bennett & Williams) to the City of Lancaster (City) for the proposed Fairfield County Jail/Public Safety Facility to be located at 334 West Wheeling Street. Specifically reviewed was a five volume set of documents collectively titled "*Response to the March 3, 2015 City of Lancaster Comments on the January 20, 2015 Fairfield County Submission Responding to the Lancaster Interim Policy for Development within the Wellhead Protection Zones – Proposed Fairfield County Jail/Public Safety Facility, 345 Lincoln Avenue, Lancaster, Ohio*" and dated May 5, 2015.

The original submittal for this project, "*Information and Response to City of Lancaster Interim Policy for Development within the Wellhead Protection Zones – Proposed Fairfield County Jail/Public Safety Facility, 334 West Wheeling Street, Lancaster, Ohio*" (January 20, 2015), was reviewed by the City and B&N, and comments regarding that submittal were provided to Fairfield County in correspondence dated March 3, 2015 (**Attachment 1**). This five volume set contains documents prepared in response to the March 3, 2015 City comments.

The current five volume submittal was received by B&N for review on May 6, 2015. Items reviewed by B&N within the submittal were specific to comments associated with "*City of Lancaster Interim Policy for Development within the Wellhead Protection Zones*", pages 28-31 of the March 3, 2015 review comment letter. Specific documents reviewed within the submittal, with associated comments numbers, include:

- **Volume 1, Section 2** – Responses to Comments 1, 4d, 6, 8, 9, 10, 11, 12, 13, 14, 15, and 16
- **Appendix F**, "*Installation and Sampling of Monitoring Wells MW-9S and MW-9D*" – Comment 1
- **Appendix H**, "*Risk Mitigation Plan for the Proposed Fairfield Jail/Public Safety Facility, 334 West Wheeling Street, Lancaster, Ohio*" – Comments 4d and 16
- **Appendix I**, "*Phase I Environmental Site Assessment, 333 Lincoln Avenue, Lancaster, Ohio*" – Comment 8
- **Appendix J**, "*Plan for the Analysis and Re-Use of Site Soils, Fairfield Jail/Public Safety Facility, 334 West Wheeling Street, Lancaster, Ohio*" – Comment 11
- **Appendix K**, "*Cross Sections and Location Map*" – Comment 12
- **Appendix L**, "*Evaluation of the Soil Leaching to Groundwater Pathway for Selected Metals for the Offsite Receptor of the Miller Park Wellfield, Lancaster, Ohio*" – Comment 15

May 14, 2015
Page 2

The reviewed documents provide the additional information requested by the City in the March 3, 2015 review comments to Fairfield County, and therefore complies with the requirements of the "*City of Lancaster Interim Policy for Development within the Wellhead Protection Zones*". We have no comments regarding the May 5, 2015 Fairfield County submittal as it relates to the reviewed items noted above.

Please do not hesitate to contact me with any questions or comments.

Sincerely,



Christopher R. Everett, CPG
Senior Hydrogeologist

CRE:cmc

Attachments

copy: Ms. Denise L. Crews, PE, City of Lancaster Stormwater Coordinator

RECEIVED
CITY OF LANCASTER

MAY 15 2015

ENGINEERING DEPARTMENT
FILE No. _____

ATTACHMENT 1

**CITY OF LANCASTER
DEPARTMENT OF ENGINEERING
STORMWATER MANAGEMENT**

121 EAST CHESTNUT STREET, Suite 100
LANCASTER, OHIO 43130-3825
OFFICE (740) 681-5070 - FAX (740) 681-5030



March 3, 2016

Mr. Dennis Keller, Facilities Manager
Fairfield County
210 E. Main St.
Lancaster, Ohio 43130

RE: Fairfield County Public Safety Facility

Dear Mr. Keller:

The City of Lancaster has completed a review of the preliminary plans for the above facility. Attached you will find our comments. These comments include reviews by all City departments and Christopher Everett, our consultant hydrogeologist. These comments contain and further explain the broad brush comments of my February 12, e-mail. The review does not include the zoning permit which will be done separately by the Certified Building Department.

We can sit down and review these comments with you, but it would be more productive to do this after you have final plans and specifications and have completed the Phase I ESA update and Risk Analysis. Many of these comments would normally be incorporated into your final plans and specifications in order to bid the project and will no longer be an issue.

If there are specific comments that you have questions about or would like to discuss, please let me know and we will be glad to meet.

Sincerely

Denise L. Crews P.E.

Denise L. Crews, P.E.
Stormwater Coordinator

Cc: Carrie Brown, County Administrator
Linda Aller, Bennett & Williams
Kerry Zwierscke, Bennett & Williams
Curt Shonk, 2LMN
Christopher Everett, Burgess & Niple
Mike Nixon, Water/Water Pollution
Dave Smith, Mayor
Brian Kuhn, Service Safety Director

Fairfield County Jail Site

West Wheeling Street

Review Comments

March 3, 2015

On January 19, 2015, a zoning permit and site engineering plans were submitted for the Fairfield County Jail Facility along with four volumes of information related to the Interim Policy for Development within the Wellhead Protection Zone. No building plans, construction specifications or foundation details were submitted.

In subsequent meetings, the County indicated that the submitted plans were not the final plans. On February 13, 2015, the City was copied on a submittal to the Ohio Environmental Protection Agency with plan sheets that are significantly different from the site engineering plans submitted.

A review of the January 19, submittal has been completed to provide general comments for the project. Because final plans have not been submitted, this review is considered preliminary.

GENERAL:

1. The developer is responsible for obtaining and paying applicable fees for all Ohio Environmental Protection Agency (OEPA), Federal Emergency Management Agency (FEMA), Ohio Department of Natural Resources (ODNR) and/or U.S. Army Corps of Engineers (CoE) permits.
2. The federal Clean Water Act and the River and Harbors Act of 1899 give the U.S. Army Corps of Engineers authority for regulating development in certain wetlands. Ohio EPA has jurisdiction for isolated wetlands. It is current policy that there is to be zero net loss of wetlands. It is the developer's responsibility to contact the Huntington (WV) District Office, First Army Corps or Ohio EPA for a wetlands determination. The City has made no review for wetlands.

3. The federal Clean Water Act and the River and Harbors Act of 1899 give the U.S. Army Corps of Engineers authority for regulating development within streams. The County is proposing grading work within the banks of the Hocking River as well as installation of storm outlet. The City has made no review for the need for a Corps of Engineers permit for this work.
4. This development will disturb 1 or more acres of ground. Under the 1972 Clean Water Act the developer must obtain a water discharge permit from OEPA for this construction activity. The developer may file for an individual National Pollution Discharge Elimination System (NPDES) permit or may file a Notice of Intent (NOI) under OEPA general permit. The developer needs to contact OEPA Central Office Storm Water Section at (614) 644-2034. Our office shall be provided a copy of the NOI or NPDES permit before work begins. Detailed comments on the Stormwater Permit are listed below.

DRAINAGE/EROSION CONTROL

1. Demolition and exposing soils shall be limited to areas where work is planned within 90 days according to the approved construction schedule. A multi-phased demolition plan is required.
2. Appropriate measures shall be taken to minimize or eliminate wastes and unused building materials and all pollutants from being carried from the site by runoff. Proper storage, handling and use of all potentially polluting substances shall be employed.
3. Public and private roadways shall be kept cleared of accumulated sediment. Provisions for proper dust control may be required as deemed necessary.
4. Erosion Control design shall meet the requirements of the City of Lancaster Standard Drawings and Standard Notes.
5. All disturbed areas that are exposed to precipitation, structural control measures and locations of vehicle entrance and exit shall be inspected at least once every seven days and within twenty-four hours of a storm event greater than 0.5 inches. Inspection shall be continued until all disturbed areas are stabilized; structural controls are removed or converted to stormwater management facilities. Corrective action will be taken for all noted deficiencies. Such actions shall be initiated within 24-hours of inspection notification.
6. Sediment deposits shall be removed from straw bale and filter fence barriers upon reaching approximately one-half the height of the barrier at its lowest point or causes a silt fence to bulge and should be deposited at a controlled fill area.

7. Sediment deposits shall be removed from diversion channels, dikes, outlet channels and stabilized areas after every rainfall. Any area damaged by erosion shall be repaired and reseeded within 24-hours or as soon as the soil dries sufficiently to allow work to proceed.
8. The City maintains the right to inspect any site of land disturbance at any reasonable time and to require compliance with regulations and soil erosion control plan.

FLOOD HAZARD AREAS

1. The FEMA Flood Insurance Rate Map (FIRM) for the general area does show a portion of the development to be in a Special Flood Hazard Area (SFHA). Work is proposed within both the floodway and the flood fringe. A development permit will be required. Within the floodway a Hydraulic and Hydrologic (H&H) study may be required. The engineer should review the requirements of the work to determine if an H&H study is required as part of the development permit submission. No site work may begin before a development permit is issued.
2. The FEMA maps regulate only major drainage systems for storms of a 100-year recurrence interval. Inadequate or incomplete drainage and/or grading plans allow lesser storms to cause localized flooding in the minor channels and swales. The developer needs to recognize the potential for localized flooding when preparing the drainage and grading plans. Adequate drainage shall be provided to reduce exposure to flood damage.

GAS LINES

1. The gas tap contractor will need to bring the service to the curb box.
2. Gas meters must be obtained from Lancaster Municipal Gas only. Contact Lancaster Municipal Gas at 687-6670 for the meter set detail drawing.
3. The existing main at 333 Lincoln may need to be taken out of service. The contractor shall coordinate work with Lancaster Municipal Gas.
4. The service line shall be a 2" line with a 2" valve.

LOTS/EASEMENTS

1. Easements are not shown on the plans. Please note that when the County requested vacation of the alley on the south side of the property the City retained an easement the width of the alley for utilities.

STREETS AND RIGHT-OF-WAYS

1. It is not clear from the plans that sidewalks within the right of way will be repaired or replaced where pavement is demolished. Sidewalks shall be in accordance with Lancaster City Standards. Curb ramps if necessary must be installed at each driveway.
2. It is not clear from the plans that curb will be replaced where pavement is demolished. Curbs shall be in accordance with Lancaster City Standards.
3. Saw cuts within the public street shall be sealed in accordance with Lancaster City Standards.
4. Driveways shall be installed per standard drawing P-23. Per Lancaster Codified Ordinance 905.04, the maximum driveway width is 35 feet.

SANITARY SEWER (SAS)

1. The County will receive capacity charge credits for a 1 ½ " meter and a 2" meter. Additional capacity charges will be based on the meter size installed which does not appear on the plans. Credits are based on the assumption that the existing building will be demolished. Capacity charges will be due prior to the sewer tap.
2. Tap charges for the new lateral will be based on \$50 for the first 15,000 square feet and \$50 for each additional 40,000 square feet or part thereof. The temporary sewer tap for the sedimentation basin will be \$50. Tap charges will be due prior to the sewer tap.
3. Plans for the oil separator must be submitted for review.
4. Roof drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited in the City of Lancaster. The City will consider a temporary stormwater connection to the 36" sanitary sewer to allow the collection of potentially contaminated stormwater from the site. The connection will only be allowed to the 36" sanitary sewer and adequate sediment control must be provided. Under no circumstances will a temporary stormwater connection be allowed to the 27" combined sewer or to the 12 or 15" line tributary to the 27" line. The standard drawings for the lateral connection does not apply to this project.

WATER LINES

1. The city's Fire Department (LFD) reviews plans for fire hydrant locations. Until building plans are submitted, the LFD cannot identify fire hydrant locations required for the project.
2. The plans show the existing 6" water service being utilized by extending the 6" water line to the proposed building. The proposed 6" line is to be installed per the City of Lancaster, Division of Water specifications up to and including the meter and backflow device.

3. The plans show the water line splitting off outside the building with a 4" water line. If one water line is the fire line and the other line is the domestic line, then the service can be split off inside the building so that only one line needs to enter the building.
4. The plans show the existing fire hydrant at the west entrance on W. Wheeling St. to be relocated. The relocated hydrant will need to be within the right of way.
5. The County will receive capacity charge credits for a 1 ½ " meter and a 2" meter. Additional capacity charges will be based on the meter size installed which does not appear on the plans. Credits are based on the assumption that the existing building will be demolished. Capacity charges will be due prior to the water tap. Because the fire line will be connected to the existing fire line, there will be no fire capacity charge.
6. The proposed appears to run through the proposed sedimentation basin. The engineer will need to confirm the depths of the water line as part of the basin design. If the proposed tap made on the existing water line, there will be no additional tap fee. If a new tap is needed because of the sedimentation basin, the tap fee is based on time and materials.

STORMWATER

1. Stormwater calculations are incomplete.
2. The storm sewer shall be designed to insure self-cleaning. The minimum velocity shall be 3 fps. The maximum velocity shall be 15 fps. The size of the sewer must be adequate for flowing full, based on the design storm.
3. The design storm for storm sewers is 5 years for sewers under 48 inches and 5 years for sewers 48 inches and over. The hydraulic gradient shall be such that the 10-year storm does not exceed the window or grate elevation. The hydraulic grade line shall be based on the downstream tailwater or 0.8D at the outlet or any other critical points within the system or upon the projected elevation of the applicable storm at the outlet stream.
4. The plans do not indicate how roof drains will be discharged. Typically roof drains would connect directly to the storm sewer. However, based on the revised stormwater plan, roof drain connections will need to be coordinated with the stormwater detention work.

5. Field tiles or subsurface drains encountered during construction shall be reported to the City of Lancaster. No connection of these drains to the stormwater management system or the sanitary sewer will allowed without the approval of the City of Lancaster.
6. Storm sewers that discharge to surface waters shall be provided with a suitable concrete full height headwall meeting the requirement of Standard Construction Drawing D-2. The invert of the storm sewer shall be set no lower than 6 inches above the bottom of the channel. In flood hazard areas, the invert at the half height headwall shall be set no lower than 6 inches above the 100 year water level.
7. Channel erosion control shall be provided at the outlet of all storm sewers. Rock channel protection shall meet the requirements of CSML 601.09.
8. The parking areas and impervious areas for all proposed site developments shall be designed to provide drainage of surface water to natural watercourses or storm sewers and to prevent draining of such water onto adjacent properties or across public walkways. The parking lots shall be drained by means of catch basins and storm sewers to an adequate outlet.
9. The parking lot shall be graded such that the surface water will drain to the catch basin or basins in a low area to permit detention of the runoff.
10. All roof top areas and/or building storm water drainage systems shall drain to the parking lot system for controlling stormwater rate of runoff prior to its release to downstream properties.
11. The catch basins must pick up the water on the paved surface. Sheet flow will not be permitted.
12. The plans do not show the location of the dumpster pad.
13. Plans are missing the following items
Cover/Title Sheet

1. Bench Marks and Datum.
2. Developer's Statement of Intent (for privately funded projects only).
3. Index/Overall tributary area map .
4. Name, Address, and Telephone Number of the developer.
5. City signature block.

General Notes Sheet(s)

These sheets shall contain a listing of the current General Notes that apply to the project being constructed by the plans. The note number and note should be shown in numerical order. The General Notes may be placed in the construction specifications in lieu of the plans. In case of discrepancies, the City of Lancaster notes shall supersede the developer specifications.

001

UTILITY OWNERS: The following utilities and owners are located within the work limits of the project:

WATER:

City of Lancaster
Division of Water
225 N. Memorial Dr.
Lancaster, OH 43130
ATTN: Andy Gundelfinger
740-687-6631

SEWERS:

City of Lancaster
Water Pollution Control
800 Lawrence St.
Lancaster, OH 43130
ATTN: Paul Menz
740-687-6664

SANITARY STORM

City of Lancaster
Transportation Department
815 Lawrence St.
Lancaster, OH 43130
ATTN: Greg Hintz
740-687-6668

ELECTRIC:

American Electric Power**
850 Tech Center Dr.
Gahanna, OH 43230-6605
1-800-277-2177

South Central Power**
2780 Coonpath Rd.
Lancaster, OH 43130
ATTN: Tim Malone (primary)
740-689-6256
ATTN: Phil Stringer (secondary)
740-689-6237

TELECOMMUNICATIONS AND SIGNALS:

AT&T Ohio
140 W. Wheeling St.
Lancaster, OH 43130
ATTN: Janeen Young
740-454-0748

City of Lancaster
Transportation Department
815 Lawrence St.
Lancaster, OH 43130
ATTN: Tim Deitz
740-687-6668

City of Lancaster
Information Technology Department
121 E. Chestnut St., Suite 50
Lancaster, Ohio 43130
ATTN: Ed Campbell
740-687-6645

Horizon Chillicothe
68 E. Main St.
P.O. Box 480
Chillicothe, OH 45601
ATTN: Tammy Perry
740-772-8260

NATURAL GAS:

City of Lancaster
Municipal Gas
1424 Camp Ground Rd.
Lancaster, OH 43130
ATTN: Hank Topf
740-687-6670

Columbia Gas Transmission*
1700 McCorkle Avenue SE
P.O. Box 1273
Charleston, WV 25325-1273

Southeastern Natural Gas
P.O. Box 377
Frazeyburg, OH 43822
1-888-863-0032
740-828-2892
ATTN: Michael Park

Columbia Gas of Ohio
939 West Goodale Ave.
Columbus, OH 43212
614-460-2170

TEPPCO
651 South Commerce St.
Seymour, IN 47274
1-800-530-1050

CABLE TV:

Time Warner Cable
111 North 11th Street
Newark, OH 43055
ATTN: Brian Amende (primary)
740-322-6703
ATTN: John Mohler (secondary)
740-322-6711

*These companies have transmission lines through the City, but do not serve customers within the City.

**These companies serve various parts of the City.

002

UTILITY LOCATIONS AND NOTIFICATION: The locations of the underground utilities shown on the plans are as obtained from the owners of utilities as required by the Ohio Revised Code, Section 153.64. Locations and elevations of existing underground utilities and structures shown in the plans are approximate only. It shall be the responsibility of the Contractor to determine their exact location and elevation when working in their vicinity.

Location, support, protection, and restoration of all utility lines, services, and appurtenances, whether shown on these plans or not, shall be the responsibility of the Contractor. Where potential grade conflicts might occur with existing utilities,

the Contractor shall uncover such utilities sufficiently in advance of construction in order that the exact elevation may be determined and the necessary adjustments made. Cost of the above work shall be included with the price bid for the pertinent item, unless otherwise noted on the plans. Estimated quantities shown on the plans for water and sanitary sewer relocations are for those items actually called for and shown on the plans.

At least seventy-two (72) hours prior to commencing any construction operations involving any excavating, auguring, boring, or other earth disturbing activity, or the demolition of any structures, the Contractor shall notify the registered utility protection service, Ohio Utility Protection Service (OUPS) (1-800-362-2764) and the owners of each utility facility shown in the plans. The Contractor is responsible for making a separate contact with all non-OUPS registered utilities with facilities in the project area. Throughout the term of the project, the Contractor shall make additional contact with OUPS and non-registered utilities as required by the Ohio Revised Code, Section 153.64.

Any existing utility or appurtenance damaged by the Contractor shall be repaired by the Contractor, or at the Contractor's expense.

004

MODIFICATIONS: Any modifications or changes to the work, as shown on the drawings, must have prior written approval by the City Engineer, City of Lancaster, or his designee.

007

PROTECTION OF SURVEY MONUMENTS: The Contractor shall carefully preserve benchmarks, property corners, reference points, and any other survey monuments or markers. If the actions of the Contractor, his employees, or his sub-contractors result in destruction of or damage to any of the above items, those items shall be accurately restored by a licensed surveyor at the Contractor's expense.

008

NOTIFICATION OF CONSTRUCTION: A minimum of ten (10) business days prior to commencing construction activities, the Contractor shall meet with and submit a construction schedule to the City Engineer, secure all necessary licenses and permits, and pay all inspection fees. Taps or connections into any City owned line (sanitary sewer, storm sewer, water line and/or gas line) shall not be made until the required tap permit has been issued.

The Contractor shall notify the City of Lancaster, City Engineer's Office a minimum of two (2) days before beginning work, holidays and weekends excluded. When the contractor suspends operations for two (2) or more working days, he shall notify the City Engineer a minimum of twenty-four (24) hours before resuming work.

011

DELIVERIES TO JOB SITE – HAUL ROUTES: Deliveries of materials and equipment to and from the job site shall be routed to maximize the use of state and federal routes and to minimize the use of City streets. No less than two (2) weeks prior to commencement of construction, the Contractor shall submit for approval a Haul Route letter to the City Engineer designating those routes to be used. If any changes are needed to the approved route, the Contractor shall submit a revision to the Haul Route letter a minimum of two (2) working days prior to the delivery date. The Engineer shall have the right to limit the route of delivery, total tonnage per vehicle per delivery, or the hours such deliveries may be made.

013

OPERATION OF FIRE HYDRANTS AND WATER VALVES: The Contractor shall not operate, open, close, or otherwise use any City owned fire hydrant or water line valve without the written authorization of the Superintendent, Division of Water. Any unauthorized taking of water from the City distribution system will result in prosecution for the theft of a public utility. Any damage caused to the fire hydrants or water valves as a result of the Contractor's operations will be repaired by Division of Water forces at the Contractor's expense.

The Contractor is hereby notified that the use of fire hydrants will not be permitted on this project. The Division of Water will provide the Contractor potable water at the Miller Park Water Treatment Plant, 225 North Memorial Drive, in bulk at a rate of \$0.015 per gallon. The Contractor may make arrangements for obtaining water at 740-687-6631.

The cost of obtaining and/or providing water shall be included in the Contractor's various prices bid for associated items in the Project unless otherwise provided for as a separate bid item.

014

LINE CROSSINGS: At all utility crossings, the backfill shall be granular material, per Item 912, between the top of the upper conduit and the bottom of the lower conduit, provided the vertical clearance between the two pipes is 1-foot or more.

Where the clearance is less, a concrete cradle shall be poured from the bottom of the lower pipe to the spring line of the upper pipe for the full-width of the upper pipe's trench width, or longer if the Engineer so orders.

A six inch (6") thick sand envelope shall be used around all water and gas lines to protect said lines from abrasive and protruding aggregate. This sand shall be fine graded aggregate per ODOT 703.02.A and free of large particles.

015

DISPOSAL OF EXCESS EXCAVATED MATERIAL: The Contractor shall be responsible for locating a site for the disposal of excess excavated material. Before disposing any such material, the Contractor shall have the disposal site approved by the City Engineer.

The Contractor is notified that the City's *Flood Damage Prevention Ordinance* regulates the placement of fill in special flood hazard areas, as delineated on the current Federal Emergency Management Agency *Flood Insurance Rate Maps for the City of Lancaster*. The Contractor shall first obtain a Development Permit from the Engineering Department before disposing any excess excavated materials within any designated special flood hazard area. In disposing of excess excavated materials in areas of special flood hazard, the Contractor shall comply with the City's *Flood Damage Prevention Ordinance*. If excess excavated materials are deposited in a special flood hazard area without a permit, the Contractor shall promptly remove the material from the special flood hazard area. The cost of this work shall be borne by the Contractor.

FEMA FIRM maps are available for inspection in the Engineering Department's office in the Municipal Annex, 121 East Chestnut Street, Suite 100, Lancaster, Mondays through Fridays between 7:30 AM and 4:00 PM.

016

WEEKEND AND HOLIDAY WORK: No work that requires City of Lancaster inspection shall be permitted on weekends or on City of Lancaster holidays without the prior, written approval of the City Engineer. If the Contractor needs to perform work that requires City of Lancaster inspection on a weekend day or a holiday, he shall submit his request stating the reasons for working those days to the City Engineer a minimum of forty-eight (48) hours in advance of that weekend or holiday.

022

PAVEMENT CLEANING: The Contractor is hereby notified that it is his/her responsibility to keep streets and roads clear of all mud, dirt, gravel, and/or stones of any kind deposited as a result of his/her operations. Pavements shall be cleaned at the end of each work day and at any other time as the Engineer directs. Failure to comply with this note may result in the Contractor's prosecution under L.C.O. 901.21. In addition, upon the Contractor's failure to adequately clean the pavement upon notice from the Engineer, the City may clean the pavement and charge the Contractor for the cost of this work.

023

WORK LIMITS: The Contractor shall confine his activities to the Project Site under development, the existing right-of-ways, and/or applicable construction/permanent easements. The Contractor shall not trespass upon other private property without the written consent of the owner. All damage to private properties shall be repaired by the Contractor to the Engineer's satisfaction. The Contractor shall bear the cost of this Work.

024

TEMPORARY PAVEMENT REPLACEMENT: Temporary pavement replacement shall be provided on permanent pavements damaged or removed by the Contractor in the performance of the work to limits shown on the plans or ordered by the Engineer. As soon as the trench has been backfilled, temporary pavement shall be installed. The Engineer may require that all materials and equipment incidental to providing the temporary pavement be on the job site prior to removing the existing pavement. The temporary pavement shall consist of 2 inches of compacted bituminous material Item 405 CMSL placed upon 6 inches of compacted Item 304, CMSC aggregate base.

It shall be the Contractor's responsibility to maintain the temporary pavement until the placement of the permanent pavement is complete.

025

PERMANENT PAVEMENT REPLACEMENT: Permanent paving shall not begin prior to the Engineer's approval of the trench backfill. The existing pavement to be removed shall be neatly sawed in a straight line at a distance of no less than 12-inches beyond the trench limits. If temporary pavement has been placed, it shall be removed down to clean granular trench backfill material. The pavement to be

removed shall not be removed more than 24 hours prior to the placing of permanent pavement materials. The permanent pavement materials and workmanship shall be the equivalent to the existing pavement being replaced, or the pertinent Standard Construction Drawing, whichever is greater. All Work shall be performed in conformance with the pertinent Standard Construction Drawing and CMSL.

027

FINAL CLEAN-UP: The Contractor shall clean up all debris and materials resulting from his/her operations. It is also the responsibility of the Contractor to restore all public and private surfaces, structures, and/or properties that were disturbed during his/her operations to their original or better condition. The Contractor shall also restore any disturbed stream channels, swales, and/or ditches to their original or better condition. This restoration work shall include the removal of all deposits of sediment, sand, gravel, or dirt in any waterways, and any subsequent reseeding or sodding of those waterways using Type A seed mixture in conformity with ODOT CMS Item 659, as deemed necessary by the Engineer. The Contractor shall perform this Work at his/her expense, and shall not be due any extra payment.

028

CONSTRUCTION NOISE: Activities and land uses adjacent to the Project may be adversely affected by construction noise. In order to minimize the construction noise impacts, any power-operated equipment or construction-type device shall not be operated between the hours of 9:00 PM and 7:00 AM. In addition, any such equipment shall not be operated at any time in such manner that the noise created substantially exceeds the noise customarily and necessarily attendant to the reasonable and efficient performance of such equipment.

030

INDEMNIFICATION: The contractor will indemnify and hold harmless the CITY and their agents and employees from and against all claims, damages, losses and expenses including attorneys' fees arising out of or resulting from performance of the WORK, provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property, including the loss of use resulting therefrom; and is caused in whole or in part by any negligent or willful act or omission of the CONTRACTOR, and SUBCONTRACTOR, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.

In any and all claims against the City or the Engineer, or any of their agents or

employees, by any employee of the CONTRACTOR, any SUBCONTRACTOR, anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any SUBCONTRACTOR under Workers' Compensation acts, disability benefit acts, or other employee benefit acts.

The obligation of the Contractor under this paragraph shall not extend to the liability of the ENGINEER, his agents or employees arising out of the preparation or approval of maps, PLANS, opinions, reports, surveys, CHANGE ORDERS, designs or SPECIFICATIONS.

035

DUMPSTER PAD: The dumpster pad and enclosure shall be constructed in compliance with the Sanitation Department's (740-687-6660) standards as shown in Standard Construction Drawing M-4. The Contractor may consult the Superintendent, Sanitation Department if there are questions on the work. The Department will not service dumpsters from pads and enclosures where the Superintendent determines the Department's employees cannot do so in a safe manner.

036

SAWING PAVEMENT: Where necessary to disturb pavement or drives, the pavement shall be saw cut in neat, straight lines. The cost of this work shall be included in the unit bid price for furnishing and placing asphalt concrete.

037

SIDEWALKS: All public sidewalks and ramps constructed as a part of this project shall be constructed in full compliance with the requirements of the Americans with Disabilities (ADA) Act of 1990, including all supplements thereto. Sidewalks and ramps shall be constructed with a design cross-slope of 1:64 (1.56%) but shall not exceed 1:50 (2.00%). In all directions, all landing areas shall be a minimum of 4 feet by 4 feet with a design slope of 1.56% that shall not exceed 1:50 (2.00%). Crosswalk areas between curb ramps shall be designed for a cross-slope of 1:64 (1.56%) but shall not exceed 1:50 (2.00%).

040

DEWATERING: Any well, well point, or other device installed for the purpose of lowering the ground water to facilitate construction of this project shall be properly

abandoned in accordance with the provisions of Section 3745-9-10 of the Ohio Administrative Code or in accordance with the provisions of this plan and the written approval of the City Engineer.

Any contractor installing any well, well point, pit, or other device used for the purpose of removing ground water from an aquifer shall complete and file a well log and drilling report form with the Ohio Department of Natural Resources, Division of Soil and Water Resources, within 30 days of the well completion in accordance with the Ohio Revised Code, Section 1521.05. If the water removal device is capable of withdrawing more than 100,000 gallons per days (equivalent to 70 gallons per minute), the contractor shall file a Water Withdrawal Facility Registration form with the Ohio Department of Natural Resources, Division of Soil and Water Resources in accordance with the Ohio Revised Code, Section 1521.16.

For copies of the necessary well log, drilling report, or registration forms, please contact:

Ohio Department of Natural Resources
Division of Soil and Water Resources
2045 Morse Road, Building B-3
Columbus, Ohio 43229-6693
(614) 265-6610

The contractor shall be solely responsible to the O.D.N.R. for the registry, maintenance, and abandonment of any withdrawal device used in the construction of this project.

041

WORK IN PUBLIC RIGHTS-OF-WAY: No work shall begin within the public right-of-way until an approved *Permit to Occupy the Public Right-of-Way* has been obtained from the City. The Contractor shall include with his permit application his traffic control plan for working in the right-of-way. This restriction includes, but is not limited to, the closure of any street or street lanes, and the placement of construction equipment, material, trailers and/or debris. If excavation in the right-of-way is required, the Contractor must also obtain a *Right-of-Way Excavation Permit* that, in addition to the aforesaid information, includes an estimate of the pavement area to be disturbed.

042

BACKFILL IN PAVEMENT AREAS: All backfill of trenches within the pavement influence lines shall be compacted granular material meeting the requirements of

CMSL Item 912, unless otherwise specified.

043

CONSTRUCTION ENTRANCE: A minimum of five (5) days prior to beginning work or moving equipment and/or materials onto the site, the Contractor shall submit to the Engineering Department an *Application for a Curb Cut or Driveway Permit* for his construction entrance, if applicable. All deliveries and access to the site shall be restricted to the approved construction entrance. At the time the application is reviewed, the existing curbing will be inspected and any cracks or breaks will be noted. Any curbing damaged during the project will be replaced by the Contractor at his expense.

The construction entrance shall be constructed in accordance with Standard Construction Drawing D-9 to minimize the tracking of mud, dirt, stones, and other debris from the project site onto the public street. Existing curbing removed for the project shall be replaced per City specifications. Drive entrances onto the public street shall be constructed in conformity with standards and specifications of the City.

044

INSPECTIONS: Various items of work on this project will require inspections by City personnel. Inspections will be required on, but not limited to, curb cuts and drive approaches, gas taps and line, water taps and lines, sanitary sewer taps and line, storm sewer taps and line, stormwater detention or retention facilities, and dumpster pads and enclosures. Inspections shall be requested no less than 48 hours in advance. Inspections will only be performed Monday through Friday, excluding holidays, between 7:30 A.M. and 3:30 P.M. Failure to obtain a required inspection shall be cause for the City to deny service to the facility.

045

PLATING OF TRENCHES IN PUBLIC STREETS: Between November 15 and April 15, the Contractor shall not temporarily plate any excavation within a public street's pavement area without the permission of the Superintendent of the City's Department of Transportation.

102

EROSION AND SEDIMENTATION CONTROL: The Contractor is responsible for controlling soil erosion, silting and sedimentation resulting from his/her operations.

It shall be the objective of the Contractor to contain erosion, silting and sedimentation to the project site insofar as practical. The location and timing of all erosion and sediment control items shall be field adjusted to prevent significant impacts on receiving waters and/or adjoining properties. Implementation of the *Storm Water Pollution Prevention Plan* shall continue throughout the duration of the Project or until such time that the disturbed areas have been stabilized. The Engineer may require additional activities when and where the work as set forth in the *Storm Water Pollution Prevention Plan* is not sufficient to control the effects of erosion, silting, and/or sedimentation in conformance with the *National Pollution Discharge Elimination System Construction Storm Water General Permit*.

All reasonable attempts should be made to minimize the total area of disturbed land.

Each sediment and erosion control measure shall be inspected after each rainfall and at least daily during prolonged rainfalls to determine if the measure is functioning as required. Any necessary repairs shall be made immediately.

Field adjustment for location and dimension of sediment control devices may be made as required with the approval of the City's Stormwater Inspector.

Erosion control devices removed during grading operations shall be put back in place at the end of the day or during inclement weather.

Topsoil should be removed and stockpiled from all work areas prior to the commencement of construction. Immediately after construction of ditches and/or base paving of streets, topsoil from the stockpile shall be spread over the exposed areas and graded as required to prepare areas for permanent seeding. Application of permanent seeding, agricultural lime, fertilizer, and mulching material shall be as per the pertinent 659 items.

If shown on this plan, energy dissipation devices or erosion control measures at the outfall of the storm sewer system shall be installed at the time of the construction of the outfall.

Areas within fifty (50) feet of a stream shall not be disturbed unless specifically permitted in the plans. No soil, rock, debris or any other such material shall be dumped or placed into a water resource, or into such proximity that it may readily slough, slip, or erode into a water resource, unless such dumping or placing is authorized by the City Engineer and, when applicable, the U.S. Army Corps of Engineers for such purposes as, but not limited to, the construction of bridges, culverts, and erosion control structures.

Seeding should be applied the same day that grading operations are complete. All constructed slopes and cuts shall be seeded as each vertical interval of no more than ten (10) feet is completed. The Contractor shall irrigate or water as

necessary to establish a healthy, erosion resistant cover crop or grass stand.

Areas to remain dormant for forty-five (45) calendar days should be immediately stabilized with construction seeding and mulching, erosion control matting or other appropriate control method.

When grading operations shall cease for a period of fourteen (14) calendar days or more, temporary seeding and mulching per 659 shall be immediately applied. If an unforeseen delay is encountered, the Contractor shall begin seeding and mulching immediately when recognized.

If construction takes place from October 1 to February 28, all exposed areas are to be temporarily mulched until March 1 and then permanently seeded as previously specified. Mulching shall be applied at a rate of 100 pounds per 1000 square feet. It shall be anchored with liquid asphalt rapid curing (R.C. 70, 250 or 800) at a rate of 0.04 gallons per square yard. When applied during freezing weather it shall be cut back with a kerosene-like product. In areas where runoff water is concentrated, mulch nettings of jute, bio-degradable synthetic materials or light-weight paper shall be used to hold the mulch in place. Substitute anchoring methods may be used such as straight disk or notched disk to tuck the straw into the seedbed three (3) inches horizontal to the slope.

In addition to the above described work, the construction drawings or contract documents may contain other notes, contingency quantities or construction and material specification that set forth other erosion control work to be performed on the Project. In such cases, the other work shall be performed in addition to the work described above.

The above work, where not specifically itemized in the quantities, shall be considered incidental to the earthwork and seeding work as set forth in the plans and the cost of materials, labor and equipment shall be included in the unit prices bid for earthwork and seeding and mulching.

All erosion and sediment control practices shall be removed and disposed of within thirty (30) days after final site stabilization is achieved or after the temporary practices are no longer needed. Trapped sediment shall be permanently stabilized to prevent further erosion.

All erosion control practices shall be in accordance with the Ohio Department of Natural Resource's Rainwater and Land Development manual, latest edition in force at the time of the bid opening.

301

TRAFFIC CONTROL: It shall be the responsibility of the Contractor to maintain traffic within the project area. The Contractor shall erect, maintain and remove the necessary traffic control devices, barricades, flagmen, and lights to safely maintain traffic around his operations. Traffic shall be maintained in accordance with the Ohio Manual of Uniform Traffic Control Devices and the City of Lancaster's Traffic Control for Construction and Maintenance Operations.

In no case shall the stipulations of these traffic control notes waive the requirements of either the construction and material specifications or the Ohio Manual of Uniform Traffic Control Devices.

309

STREET AND LANE CLOSINGS: No street or part of any street, including the sidewalk, shall be permitted to be closed without an approved *Permit to Occupy the Public Right-of-Way* from the Service-Safety Director. The Contractor shall submit his request, along with a plan of the proposed detour route and maintenance of traffic plan, a minimum of seventy-two (72) hours before the actual closing, weekends and holidays excluded. There is no fee for this permit.

If the closing is approved, the Contractor shall notify the City Engineer and Superintendent, Department of Transportation a minimum of four (4) hours before he implements the actual closing. The Contractor shall also notify any affected residents or businesses prior to the closing as to the extent, nature, and duration of the closure. The cost of this work shall be included in the unit price bid for Item 614, Maintaining Traffic.

The length and duration of lane and/or street closures shall be at the approval of the Engineer. It is the intent to minimize the impact to the traveling public. Lane closures or restrictions over segments of the project in which no work is anticipated within a reasonable time frame, as determined by the Engineer, shall not be permitted. The level of utilization of maintenance of traffic devices shall be commensurate with the Work in progress.

310

SPECIAL DUTY POLICE OFFICERS: When the Contractor requires the services of a Special Duty City Police Officer, with or without a city police cruiser, the contractor shall make arrangements for these services with the Captain of Operations, Lancaster Police Department, 740-687-6680. Notice of one (1) week should be provided to ensure the availability of a special duty city police officer. Lesser notice may result in the unavailability of a special duty city police officer.

Any resulting delay to the project due to the unavailability of a Special Duty City Police Officer shall not be the responsibility of the City of Lancaster.

Special Duty City Police officers shall be considered as employees of the Contractor and the Contractor shall be responsible for their actions. Although employed by the Contractor, the project engineer shall have control over their placement.

Payment for the services of Special Duty City Police Officers and city police cruisers shall be included in the unit price bid for Item 614, Maintenance of Traffic unless otherwise set forth as a separate pay item in these plans.

901

SERVICE CONNECTIONS: Services or house connections shall not be connected to the lateral or main line sewers shown hereon until full approval of said lateral or main line sewer has been received.

906

CONNECTIONS TO EXISTING STRUCTURES: Where new sewers are connected to existing structures (manholes, catch basins, etc.), the Contractor shall core drill any new openings into the existing structure by a method approved by the City Engineer. The Contractor shall clean the structure of all debris before making the connection. The Contractor shall construct a semi-circular, concrete channel to the new pipe to provide smooth, uninterrupted flow through the structure.

907

SANITARY SEWER-MANHOLE CONNECTIONS: The sanitary sewer pipe to manhole connections shall be of a flexible watertight joint of approved manufacture. The joint shall be a rubber sleeve with stainless steel banding. A-Locks are not acceptable.

908

PROHIBITION OF CLEAN WATER CONNECTIONS TO SANITARY SEWERS: Roof drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited in the City of Lancaster. Where sanitary sewer work is exposed to storm water flows or other clean water sources, the Contractor shall take all necessary precautions to prevent storm or other clean water flow from entering the sanitary sewer system, including, but not limited to, the plugging of all

open sewer pipe and/or other openings at the end of each work day.

909

EXISTING BRICK SEWERS: The Contractor shall use extreme caution when working adjacent to existing brick sewers. Flow in the sewer during storm runoff could be in a surcharged (pressure) condition. All brick sewers disturbed during construction shall be replaced to the satisfaction of the Engineer. Cost of this work including new pipe, concrete collars, backing, encasement, excavation, bracing and all other materials and labor necessary to complete the work shall be included in the price bid for CMSL Item 901.

911

SEWER INSPECTIONS: Pipe laying and backfill shall be performed in accordance with pertinent construction and material specifications of Lancaster and City of Lancaster standard construction drawings. Backfilling operations shall not begin until this work has been inspected by the City Engineer or his representative. This inspection prior to the backfilling operation does not relieve the contractor of his responsibilities for the leakage tests. Inspections must be requested twenty-four (24) hours in advance. Inspections will only be performed on week-days between 7:30 A.M. and 3:30 P.M. excluding City holidays. Requests for inspections on weekends or holidays must be submitted in writing forty-eight (48) hours in advance. Requests must state the special circumstances warranting the inspection.

917

EXISTING SEWERS AND STRUCTURES: The contractor shall replace to the satisfaction of the Engineer all existing manholes, catch basins, drains, sewers and appurtenances removed or damaged during construction. The above is not applicable to structures to be abandoned. The Contractor shall remove debris, silt, etc. from existing manholes and catch basins and various sewer pipes which are connected in the new system.

918

EXISTING SEWAGE FLOWS: The Contractor shall make provisions to maintain flows in the existing sewer at all times during construction. Methods for maintaining flows shall be submitted to the Engineer for approval prior to construction. At no time will sanitary sewage be allowed to discharge to any river or stream nor spill out on the ground. Approval of plans by the Engineer to

maintain flows shall not relieve the Contractor of any responsibility to adequately provide for all flows.

The Contractor shall be aware that the existing sewers may be operating under pressure (head) during times of rainfall; therefore the Contractor shall exercise caution when working on these sewers.

922

SANITARY SEWER LATERALS: All backfill for sanitary sewer laterals under the existing or proposed street pavement and within the influence of the pavement shall be Compacted Granular Material per CMSL 912. The remaining backfill within the street right-of-way shall be Compacted Backfill per CMSL Item 911.

Plan View Guidelines

1. No stationing was provided. The proposed sewer line shall be stationed increasing from the downstream most end (and not from the street centerline).
2. Label adjacent property owners.
3. Label pavement replacement type and location, if required.
4. Show all existing utilities as dashed lines and label type and size. Not all utilities are shown.
5. Note material of pipe that is to be used.
6. Note type of bedding that is to be used.
7. Joint Sawing Diagram (If Applicable)
8. Guardrails, signs, and other miscellaneous items
9. Work and clearing limits
14. Permanent easements, including widths

Profile View Guidelines

1. Stationing and numbering of proposed sewer and structures shall match plan view.
2. Show any existing features as a dashed line type and label with an existing drawing number.

3. Show special backfill limits with appropriate stationing.

Grading Plan Guidelines

1. Top of Casting Elevations
2. A sufficient number of spot grades to build the site from and to demonstrate drainage scheme of development should be shown. Spot elevations shall be provided at the right-of-way, top of curb locations, the lot lines, and grade breaks. Spot grades for all ADA accessibility paths and handicap parking spaces are required.
3. Finished ground elevations and first floor elevations for all proposed buildings should be shown.
4. Site layout including street centerlines, curb, right-of-way, building line, lot lines, and street names.
5. The path of the 100 year storm water routing should be shown.
6. Special Flood Hazard Areas
7. Landscaping and buffer areas if required by zoning regulations
8. Confirm that grades comply with ADA requirements (drives, sidewalks, parking, etc.).
9. A driveway detail and profile shall be included.

Erosion and Sediment Control Plan Guidelines

1. Any general or special notes required based on the Construction General Stormwater Permit or the Interim Policy. Notes may be placed within the construction specifications in lieu of the plans and the construction specifications must be submitted.
6. Flood routing information
7. Erosion and Sedimentation Control Narrative, including:
 - Correct Facility Name and Address
 - Estimated Timetable including such phasing included in the construction specifications. A project schedule must be submitted and incorporated into the SWPPP prior to construction

- Acres to be Disturbed
- Proposed measures to control stormwater pollution
- Existing site conditions
- Soils

Street Lighting Plan

1. Scale shall not be less than 1" = 100'
2. Site Layout
3. Proposed Light Locations
4. Legend for Drawings
5. Light type, manufacturer, and product number

Frontage and Off-site Improvements

1. Proposed curb cuts in relation to existing driveways
2. Sidewalks repairs and replacement in accordance with Lancaster Standard Drawings.
3. Curb Repairs where driveways are removed in accordance with Lancaster Standard Drawings.

14. The following calculations are missing

- Storm Sewer Design Calculations – Indicating drainage to and capacity of storm sewers. The calculations submitted do not correspond to the plans and use ODOT not City of Lancaster requirements.
- Storage Calculations – Indicating the amount of storage required and amount provided
- Orifice Calculations – Indicating sizing
- Detention area design calculations
- Sedimentation Pond Calculations

15. A tributary map showing all areas draining to the proposed stormwater system shall be provided. The map shall be no smaller than 1" = 100' and include both upstream and downstream areas tributary to the drainage system. All proposed

stormwater facilities shall be shown with the appropriate tributary boundaries for each inlet, structure or basin. The routing path for major storms shall be indicated.

ZONING

1. A zoning review will be done separately by the Certified Building Department.
2. The property is located within both the Special Flood Hazard Area overlay district and the Wellhead Protection Zone overlay district. Requirements of both districts shall be met.

MISCELLANEOUS

1. A permit must be obtained from the City Tree Commission before planting any trees within public right-of-ways. Only approved species of trees may be planted in the R/W. We recommend early consultation with the city arborist if a master landscaping plan is to be developed.
2. A Permit by Rule Notification to the Ohio EPA will be required for the emergency generator
3. Demolition materials, not classified as clean fill, shall be disposed in accordance with Ohio EPA requirements in a licensed facility.

Construction General Stormwater Permit

1. The site is discharging stormwater off site and coverage under an Ohio EPA permit is required. The County may apply for coverage under the General Construction Stormwater Permit or may request an individual NPDES permit for the site. The permit as well as the Stormwater Pollution Prevention Plan (SWP3) must be available on site at all time.
2. The SWP3 does not identify sources of non-stormwater associated with construction activity. The most common sources will be lawn watering/irrigation uncontaminated groundwater from trench or well point dewatering and water line flushing water.
3. The County must submit a Notice of intent (NOI) for coverage under the General Construction Stormwater Permit at least 21 days prior to the commencement of construction. All contractors on the site must submit a NOI as a co-permittee prior to issuing a notice to proceed.
4. The Construction permit requires erosion and sediment controls to minimize the discharge of pollutants. For construction the plans propose to route the majority

of construction stormwater to the City of Lancaster sanitary sewer system with the approval of the City. Disturbed areas that discharge directly off the site have silt fence installed. Inlets are protected by dandy bags. Silt fence is missing along the driveway on the south property line. A sediment basin or equivalent control will be required upstream of the discharge to the sanitary sewer.

5. Measures to control both the peak flow rates and total volume are not provided. The plan proposes to reduce the impervious area by 21%. However the plan also proposes to install an impervious liner and underdrains that would discharge to the parking lot. The approach negates both the function of the pervious area and is not acceptable. This method would be acceptable if an appropriate storage volume is provided above the pervious liner and if the underdrains discharge directly to stormwater system.
6. The permit requires if feasible a 50 foot undisturbed buffer from the Hocking River. According to the plans, a 50 foot buffer is not feasible, so temporary seeding will be required in accordance with the permit within two days if the area will remain idle for more than 14 days and permanent seeding is required within two days of reaching final grade. This information must be included in the SWP3.
7. The plans do not address dewatering activities, although it is assumed that the dewatering will discharge to the sanitary sewer after appropriate controls. Dewatering controls must be added to the SWP3.
8. The location of washing areas, including concrete washout must be shown on the SWP3.
9. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials is prohibited.
10. The discharge from the sediment basins shall utilize outlet structures that withdraw water from the surface of the basin unless infeasible. A detail of the outlet structure must be included in the SWP3.
11. The City requires that site clearing and demolition be limited to areas within a ninety day work period on the contractor's approved schedule. The County will need to provide a phased SWP3 that reflects phasing of the demolition work as well as phasing of the underground installation and location of BMP's.
12. The SWP3 does not include the required certification.
13. The County shall inform all contractors and subcontractors not listed as co-permittees of the terms and conditions of the permit. Written documentation and signatures shall be obtained prior to the Notice to Proceed.
14. The SWP3 is missing the following items

- a. Percent Imperviousness created by the construction activity
- b. Post Runoff coefficients based on the actual site design. Since the plans propose to line the pervious areas the post runoff coefficient is not correct.
- c. An implementation schedule which describes the sequence of major construction activities and the implementation of erosion, sediment and stormwater management practices to be employed during each operation of the sequence. Because demolition is limited to a 90 day work area, a phased schedule is required.
- d. A cover page or title identifying the name and location of the site, the name and contact information of all construction site operators, the name and contact information for the person responsible for authorizing and amending the SWP3, preparation date, and the estimated dates that construction will start and be complete.
- e. Water wells within 200 feet of the site.
- f. Location of areas likely to require temporary stabilization during the course of site development.
- g. Sediment and stormwater management basins noting their sediment settling volume and contributing drainage area.
- h. The location of permanent stormwater management practices to be used to control pollutants in stormwater after construction operations have been completed.
- i. Areas designated for the storage or disposal of solid, sanitary and toxic wastes including dumpster areas, areas designated for cement truck washout and vehicle fueling.
- j. A description of the operators that are responsible for implementation and management of each control measure as well as each subcontractor that will engage in activities that could impact stormwater runoff.
- k. The SWP3 shall provide that disturbed areas be stabilized in accordance with the permit.
- l. Because work is being done within the banks of the Hocking River, the operators shall develop and implement special measures to stabilize channels and outfalls.
- m. The proposal sent to Ohio Environmental Protection Agency proposes temporary sediment control basins and swales. No erosion control was provided on the temporary swales.

- n. No runoff control is provided on the slopes on the Memorial Drive end of the property or on the south driveway section.
- o. Sedimentation controls were not shown on the plans although basins appear on the plan sheet submitted to Ohio EPA. No designs or calculations were submitted.
- p. The plans shall include a description of the post-construction requirements that will be installed on site. Detail drawings and maintenance plans shall be provided. Because the proposed post construction incorporates underdrains near the building, the design will need to be coordinated with the building foundation drain design.
- q. The post construction BMP must be selected from Table 2 of the General Construction Stormwater Permit or approved in advance by Ohio EPA. The City of Lancaster will only allow the BMP's listed in Table 2 however infiltration BMPs are not allowed in the Wellhead Protection Area. We will accept your proposed grass area as long as it is designed as a permeable pavement-extended detention with a liner. Drawdown time will be 24 hours.
- r. There shall be no turbid discharges to surface waters resulting from dewatering activities. The plans do not include treatment of dewatering wastewater or wastewater from the foundation pile construction.
- s. Where construction activities are to occur on sites with contamination from previous activities, concentrations from materials that meet other criteria may still result in storm water discharges in excess of Ohio Water Quality Standards that are not authorized under the General Construction Stormwater Permit.
- t. A description of maintenance procedures for all temporary and permanent control practices shall be provided.
- u. The specifications shall include requirements for inspections in accordance with the permit.
- v. The plans must certify that the SWP3 meets the requirements of the City of Lancaster.
- w. The signatory agent for the SWP3 and related requirements is required to be either a principal executive officer or ranking elected official.

Interim Policy for Development within the Wellhead Protection Zones

1. A shallow and deep monitoring well will be required on the property Wheeling Street at a site approved by the Division of Water and to Division of Water standards. These wells should be installed 2 months prior to the start of construction so that we can establish a baseline preconstruction condition. The County will not be required to sample the wells, but the City of Lancaster will provide sampling at their cost.
2. The submittal includes the Sheriff's policy concerning handling of toxic, corrosive and flammable substances but does not include of list of those chemicals or a storage area description.
3. Methods and locations of receiving, handling, storing, shipping and disposal of chemicals and wastes was not included.
4. The site plan is missing the following information
 - a. Other buried utilities on site
 - b. Chemical/product and waste storage areas
 - c. Liquid transfer area for generator
 - d. Property Specific Risk Mitigation practices. These practices may be incorporated into the construction specifications in lieu of the plans.
5. While we agree that insurance would not be available to the County, we will require that the City be listed as an additional insured party by the contractors. Contract specifications must be submitted that shows this language. A copy of the insurance certificate must be submitted prior to the start of demolition. The City will make no determination on a bond until the Property Specific Risk Analysis is submitted and reviewed.
6. Plans or specifications shall include language related to the prompt removal of wastes from the site.
7. Grading operations shall be minimized to an area required for a 90 day work period. A phased grading plan that meets this requirement is required.
8. Two Phase I ESAs were included with the submittal, in Appendices F and O. The Phase I ESAs are dated March 1992 and February 1993, respectively. Both Phase I ESAs are out of date and do not meet the standards of ASTM 1527-13. A Limited Phase II ESA has been conducted to evaluate the subsurface soils and groundwater. Since the initial Phase I studies were completed, there have been a number of changes including the closing and demolition of the Lancaster Glass site. In order to meet this requirement, a current Phase I ESA that meets ASTM 1527-13 standards should be submitted. We will accept a Phase I ESA done in conjunction with other property the County is contemplating purchasing in the area.

9. The City agrees that commercial sources of fill (such as mined gravel or topsoil) from ODOT approved sources meet this requirement. Copies of ODOT certification shall be maintained on site and submitted prior to approval of the occupancy permit.
10. If it is necessary to bring other fill materials from off-site, provide the sources of fill prior to filling operations. Fill materials must comply with the Required Chemical Testing of the policy.
11. Fill materials from the site that will be used on the site are subject to the Required Chemical Testing of the policy. Please provide a plan detailing analysis and potential re-use of site soils that may exceed the residential land-use standards.
12. The soil borings completed to date do not meet the requirements of this policy. However, the City agrees that completing additional borings at each pile location and building corner is unnecessary. In lieu of additional borings, geologic cross-sections shall be submitted using the available soil boring data to visually depict and provide a better understanding of the nature and extent of the fill, intermediate clay/silt layer, and remaining unconsolidated deposits underlying the proposed building footprint. Please provide at least two cross-sections in each direction to portray the materials.
13. Soil samples were not analyzed for cyanide, Alachlor, and Simazine, and therefore were not analyzed in accordance with the required parameters indicated on Table 1 of the policy. However, the analytical list used during the Limited Phase II ESA was comprehensive and reasonable based on the information available during field investigation. Cyanide was not identified as a chemical of concern (COC) and Alachlor and Simazine are pesticides generally associated with agriculture and rural runoff. No further action is required.
14. The groundwater samples were not analyzed for cyanide, Alachlor, Atrazine, and Simazine, and therefore were not analyzed in accordance with the required parameters indicated on Table 1 of the policy. However, the analytical list used during the Limited Phase II ESA was comprehensive and reasonable based on the information available during the field investigation. Cyanide was not identified as a COC and Alachlor, Atrazine, and Simazine are pesticides generally associated with agricultural and rural runoff. No further action is required.
15. The Limited Phase II ESA indicates that soil concentrations of antimony, arsenic, chromium, lead, mercury, selenium, and thallium exceed Ohio EPA generic leach-based soil values. Please evaluate the potential risks associated with soil leaching to groundwater pathway. The provided Risk Analysis indicates that the on-site groundwater pathway is not complete because the site is served by City of Lancaster water. However, the off-site receptor pathway has not been

considered which is important because the City's Miller Park wellfield is located on the adjacent property to the north, the site lies within the 1-year Wellhead Protection Zone, and groundwater flow under the site is presumably towards the Miller Park wellfield. Please evaluate the risks associated with the off-site groundwater receptor pathway, being toward the City of Lancaster Miller Park wellfield.

16. Please prepare and submit a Risk Mitigation Work Plan detailing analysis and handling of excavated soils, and other proposed mitigation such as double-casing the proposed auger cast borings.