INDEX OF SHEETS:
1. Title Sheet
2. General Notes
3. General Notes & Quantities
4. Centerline Data & Control Points
5. Sanitary Sewer Plan & Profile
6. Sanitary Tributary Map

BENCHMARKS H.A.V.O.D. 1988

The vertical datum is based on the elevation established by the Franklin County Engineering Department, at monument 8844, being 923.044 feet in elevation, at monument 8850, being 927.054 feet in elevation, and at monument PHRESET, being 896.245 feet in elevation. The said monuments being source benchmarks with elevations that are based on the North American Vertical Datum of 1988.

DESCRIPTION

BM #1: Aluminum cap is concrete monument, of the centerline intersection of Wilcox Road and relocated Hayden Run Road, on east side of Wilcox, 10 feet south of the west side of the centerline of Wilcox Road. Elev. = 911.78

BM #2: Brass plug in the northeast wingwall of Wilcox Road bridge, 29.5 feet east of the centerline of Wilcox Road. Elev. = 896.25

BM #3: Chiseled on the east side of a stone marked mule, located 10 feet west of the edge of pavement of Wilcox Road, 100 feet north of the intersection of Hayden Run Road and Wilcox Road. Elev. = 910.39

BM #4: Chiseled "n" on the east side of a stone marked mule, located 10 feet west of the edge of pavement of Wilcox Road, 100 feet north of the intersection of Hayden Run Road and Wilcox Road. Elev. = 914.42

BM #5: Chiseled "n" on the east side of a stone marked mule, located 10 feet west of the edge of pavement of Wilcox Road. Elev. = 927.61

BM #6: Chiseled "n" on the north side of a stone marked mule, located 10 feet west of the edge of pavement of Wilcox Road, 100 feet north of the intersection of Hayden Run Road and Wilcox Road. Elev. = 931.16

For addresses and property owner information, see sheet 4.

REVISIONS

<table>
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<th>REV. NO.</th>
<th>DATE OF REV.</th>
<th>SHEETS REVISED</th>
<th>DESCRIPTION OF REVISION</th>
<th>APPROVED BY</th>
<th>DATE OF APPROVAL</th>
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CITY OF HILLIARD, OHIO
PUBLIC SANITARY SEWER IMPROVEMENTS
RIGGINS ROAD
2015
HP-875

LOCATION MAP
LATITUDE: 40° 03' 42" N  LONGITUDE: 83° 09' 06" W
SCALE IN MILES

The signatures below signify only concurrence with the purpose and general location of the project. All technical details remain the responsibility of the engineer preparing the plans.

Reviewed By: [Signature] Date: [Date]
[Name] Director of Public Service/City Engineer
City of Hilliard

City of Columbus Approval
Approval on the part of the City of Columbus is given pursuant to provisions of the sanitary sewer service agreement between the City of Hilliard and the City of Columbus, Ohio, dated Oct. 12, 1989, and all subsequent amendments thereto.

This sanitary sewer service or expands City of Columbus design Standards (including per capita flow, peaking factor, and I/D Allowance and material specification).

Approved: [Signature] Date: [Date]
[Name] Administration, Division of Sewerage and Drainage
City of Columbus, Ohio

Approved: [Signature] Date: [Date]
[Name] Director of Public Utilities
City of Columbus, Ohio
GENERAL NOTES
1. The regulations and construction standards of the City of Hilliard, including the current construction and material specifications of the City of Columbus (City of Columbus) and the Ohio Department of Transportation (ODOT), must be followed. The City Engineer will require at least one representative to inspect all construction items that are part of this plan unless otherwise noted.

2. The City Engineer or his authorized representative will make the inspections. Prior to the work, the City Engineer will require at least 48 hours written notice before any work begins. Failure to request the necessary inspection may result in the rejection of the work and the project.

3. It is the intention of the plans to provide and require a project reserve for operation, any work items omitted from the plans, which are clearly necessary for completion of the work and its operation. The appearances shall be considered a part of such work, though not directly specified or called for in the plans, this includes, but is not limited to such items as relocation of utilities, such as cutting, and removal or relocation of signs, sidewalks, or other miscellaneous items.

4. All items of work called for in the plans for which no specific method of payment is provided shall be performed by the Contractor with the cost to be included in the unit price bid for the various related items.

5. The Contractor may subcontract the work to other approved contractors provided that the work is of a similar nature.

6. The City Engineer shall provide the City of Hilliard, a surveyor, adequate to accept the City of Hilliard, equal to cost of constructing the work for one year after acceptance by the City.

7. The City Engineer will not be responsible for any 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 the failure by the contractor to perform work according to plans.

8. Approval of these plans is contingent upon all applicable federal, state, and local regulations. Contractors must be licensed and insured. The contractor shall be responsible for the construction of the project (including employee) and its operation. It shall also be the responsibility of the contractor to initiate, perform, and complete all requirements, preparations, and programs in connection with the work, including the requirements for confined spaces per 29 CFR 1910.

9. The Contractor shall perform all work in accordance with all applicable federal, state, and local regulations, and in accordance with the Ohio Occupational Safety and Health Act of 1970. The contractor shall exercise all reasonable precautions for the protection of persons (including employees) and property. If it shall be the sole responsibility of the contractor to initiate, perform, and complete all requirements, preparations, and programs in connection with the work, including the requirements for confined spaces per 29 CFR 1910.

10. The Contractor/Developer shall be responsible to obtain all necessary permits.
35. Backfill for storm sewer and sanitary sewer trenches parallel to the pavement and within the right-of-way, with the top of the trench 3 feet or closer to the edge of pavement or located under a pedestrian pathway, shall be Compacted Granular Material, COSS Item 921, to within 6 inches of finished grade. Backfill for all other storm sewer and sanitary sewer trenches within the right-of-way parallel to the pavement, shall be Compacted Backfill, COSS Item 921, except that compaction shall be to a minimum 15 percent maximum dry density. Prior to construction of the streets, the City Engineer may require soil tests on the backfill, where test results indicate that the backfill does not meet compaction requirements, the backfill shall be removed, replaced, and re-tested until meeting those requirements. For backfill for water line trenches parallel to the pavement, see water line general notes #9.

36. NOT USED.

37. NOT USED.

38. All seeding shall be applied at the rate of 8 pounds (0.16 per 1000 square feet) and shall use the following seed mixtures:

- 40% Tall fescue
- 40% Tall fescue
- 20% Kentucky bluegrass
- 10% Tennessee fescue

39. Commercial-grade composted fertilizer of neutral character, containing 5% fast and slow release nitrogen, 5% derived from natural organic sources of urea, ammonium, and ammonium with the following composition shall be applied composition; 18% nitrogen, 3% phosphorus, and 0.6% potassium by weight. Fertilizer shall be applied at the rate of 200 pounds (0.4 per 1000 square feet) and shall be applied the day before seeding.

40. All signs, landscaping, structures, or other permanent construction shall be replaced or repaired to the satisfaction of the city engineer. The contractor shall pay for the

41. All no-paint during construction shall Wilcox Rd be closed. Construction traffic shall enter the site at the designated construction entrance of Wilcox Rd. No construction traffic shall enter the site from Silverton Way, SilverMono Lane, or Amber Lane.

SANITARY SEWER

1. Any modification of the work as shown on these drawings must have prior written approval by the City Engineer and the Administrator, Division of Sewers and Drainage, City of Columbus.

2. Sewer drainage, foundation drainage, and other paved water connections to the sanitary sewer system are prohibited.

3. Temporary backfills shall be placed where indicated on the plans and shall remain in place until the city engineer directs removal.

4. All A.B.S. Composite wall sewer pipe eyew fittings shall have a two-foot minimum service extension installed prior to the service being capped and backfill being placed over the manhole sewer.

5. Service risers, cols Item 94, shall be installed where depths from the eyew to the existing or proposed ground elevation exceed 10 feet. The tops of risers shall be 1 foot below the existing or proposed surface elevation, whichever is higher.

6. The contractor shall furnish and place as directed, approved pipe modes of 2½-inch lumber at all eye locations, ends of services, or at the end of each riser where risers are required. Pipe modes shall be visible for each eye before acceptance by the city. The cost of these pipe modes shall be included in the price bid for the sewer items.

7. All ovc sewer lines shall be deflection tested after installation, in accordance with the requirements of Item 901 of the City of Columbus, Construction and Material Specifications, current edition, and any supplements thereto.

8. Upon completion of construction for each phase of sanitary sewer work, the contractor, through its engineer, shall furnish the city engineer a tabulation of structure items, the elevation of the top of casing as proposed on the plans, and the elevation of the top of casing, as built. The city engineer will determine adjustments, if any, that are necessary and all necessary adjustments shall be done prior to submittal of "as built" drawings.

9. The original drawings, revised "as built," and two sets of prints shall be given to the city prior to any top panels being issued. Accompanying the city for the one-year maintenance period, the information shown on the "as built" plans shall be from field measurements. Eye locations and the distance between manholes, for each section of sewer, shall be shown on the plans. The city engineer will determine the accuracy of the horizontal location of the sewer from that shown on the approved plans, shall be shown.

10. After sewers have been cleaned, passed all tests, and before acceptance, all main line sewers shall be video taped on CD or DVD with a notation of mainline numbers, an accurate distance between manholes and location of all eye branches from the nearest downstream manhole module shall be shown on the video tape. Copies of the video tapes shall be given to the city engineer prior to acceptance of the sewers.

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CHECKED BY: VOD  DATE: 08/26/2015

The intent is to construct this public sanitary sewer under the same construction contract on the public water line detailed in plans designated 94-1392 and 94-376. Quantities that are needed for both plans have been included in the public water line plans.

All necessary data verifying measures shall be included in the cost of Item 901 24" Pipe. See the subsurface investigation report dated 08/2014 by SBAE for soil boring details.
### SANITARY ALIGNMENT TABLE

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### SANITARY MANHOLE COORDINATES

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