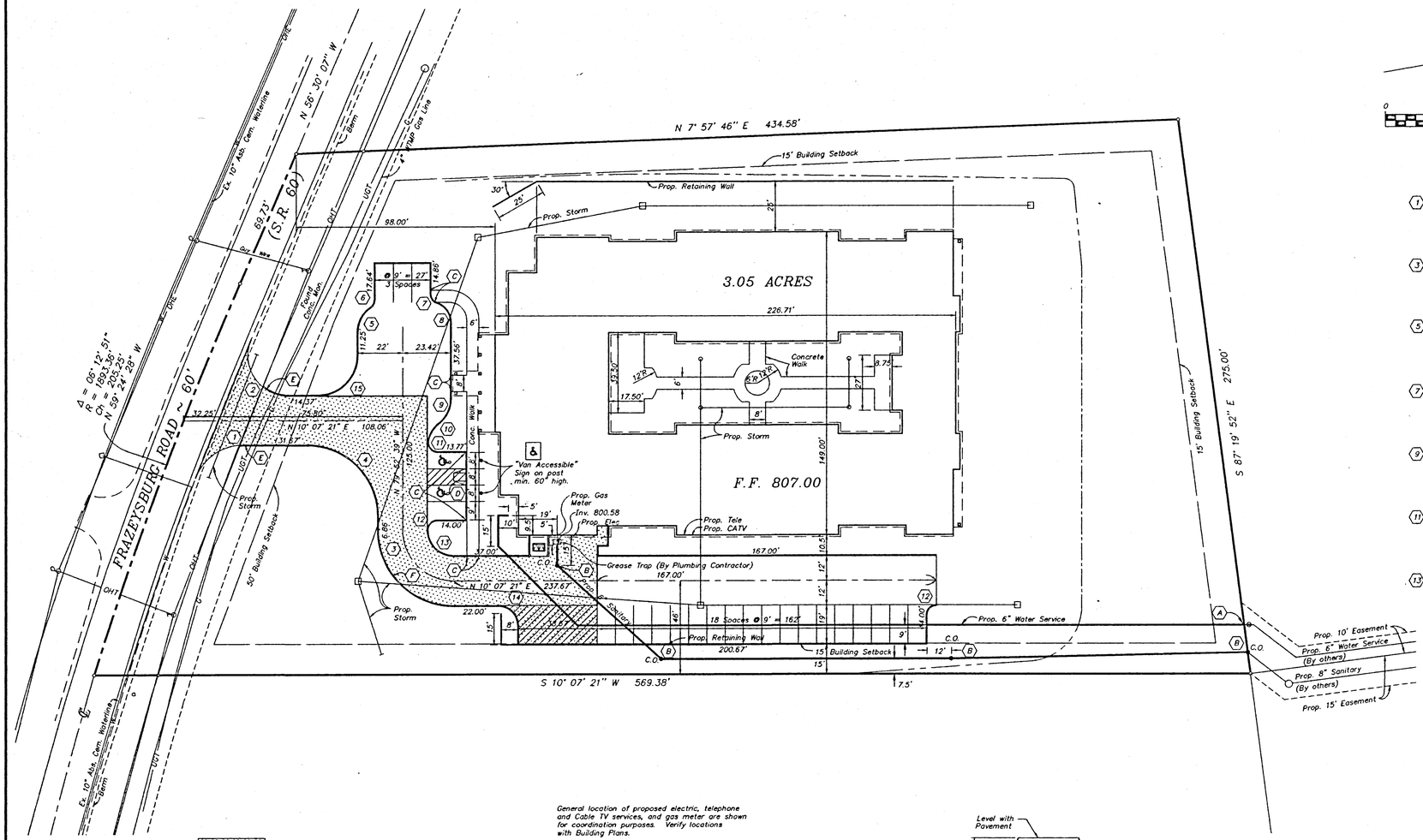
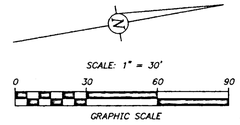




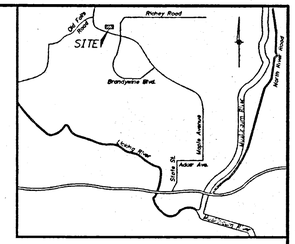
BENCH MARKS

#1 Northeast Corner of Concrete Base of "Prepare to Stop When Flashing" Sign.

Elev. = 800.63

#2 Railroad Spike in Utility Pole at the Northeast Corner of S.R. 60 and Richey Road.

Elev. = 778.39



LOCATION MAP
NO SCALE

(1) RETURN DATA E/P
Δ = 69° 20' 36"
R = 25.00'
L = 30.26'
Ch = 28.44'
T = 17.29'

(2) RETURN DATA E/P
Δ = 112° 33' 58"
R = 20.00'
L = 39.29'
Ch = 28.44'
T = 29.97'

(3) RETURN DATA F/C
Δ = 90° 00' 00"
R = 37.00'
L = 58.12'
Ch = 52.33'
T = 37.00'

(4) RETURN DATA F/C
Δ = 90° 00' 00"
R = 35.00'
L = 54.98'
Ch = 49.50'
T = 35.00'

(5) RETURN DATA F/C
Δ = 54° 46' 23"
R = 14.89'
L = 14.23'
Ch = 13.70'
T = 7.71'

(6) RETURN DATA F/C
Δ = 54° 46' 23"
R = 5.00'
L = 4.78'
Ch = 4.60'
T = 2.59'

(7) RETURN DATA F/C
Δ = 70° 31' 43"
R = 5.00'
L = 6.15'
Ch = 5.77'
T = 3.54'

(8) RETURN DATA F/C
Δ = 70° 31' 44"
R = 10.00'
L = 12.31'
Ch = 11.55'
T = 7.07'

(9) RETURN DATA F/C
Δ = 51° 43' 28"
R = 15.00'
L = 13.54'
Ch = 13.09'
T = 7.27'

(10) RETURN DATA F/C
Δ = 39° 31' 06"
R = 15.00'
L = 10.35'
Ch = 10.14'
T = 5.39'

(11) RETURN DATA F/C
Δ = 102° 12' 22"
R = 5.00'
L = 8.92'
Ch = 7.78'
T = 6.20'

(12) RETURN DATA F/C
Δ = 90° 00' 00"
R = 5.00'
L = 7.85'
Ch = 7.07'
T = 5.00'

(13) RETURN DATA F/C
Δ = 90° 00' 00"
R = 13.00'
L = 20.42'
Ch = 18.38'
T = 13.00'

(14) RETURN DATA F/C
Δ = 90° 00' 00"
R = 10.00'
L = 15.71'
Ch = 14.14'
T = 10.00'

(15) RETURN DATA F/C
Δ = 90° 00' 00"
R = 20.00'
L = 310.42'
Ch = 28.28'
T = 20.00'

GENERAL NOTES

All construction materials and installation shall be in accordance with the Specifications of the City of Zanesville, Ohio together with the latest Construction and Material Specifications of the State of Ohio, as directed by the Zanesville Service Director and Muskingum County Building Official.

The Contractor shall notify the City of Zanesville Service Director Office (614-455-0650) and Muskingum County Building Official's Office (614) 455-7905 at least 48 hours prior to any construction.

The Contractor shall secure and pay for all permits and governmental fees, licenses, and inspections necessary for the proper execution and completion of the improvements shown on this plan.

The Contractor shall perform all work in accordance with applicable Federal, State and Local Safety Requirements.

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

Existing utilities shown are from best available records and field investigation, and are not necessarily complete or exact. The Contractor is responsible for the investigation, location, support, protection, and restoration of all existing utilities and appurtenances whether shown on these plans or not. The Contractor shall expose all utilities or structures prior to construction to verify the vertical and horizontal effect on the proposed construction. The Contractor shall call, toll free, the Ohio Utilities Protection Service (1-800-362-2764) 72 hours prior to construction and shall notify all utility companies at least 48 hours PRIOR to work in the vicinity of their underground lines.

The following utilities and owners are located within the work limits of this project and do not subscribe to a registered underground utility service.

Utility	Owner	Telephone
Sanitary Sewer, Storm Sewer & Water Facilities	City of Zanesville 401 Market St. Zanesville, Ohio 43701	(614) 455-0650
Water Facilities	East Muskingum Water Authority 375 Richards Road Zanesville, Ohio 43702-2007	(614) 453-0678

Backfill for utility construction within dedicated rights-of-way shall be compacted to meet the requirements of Section 203.12 of the State of Ohio Specifications. Construction within existing or proposed pavement areas shall be backfilled with Compacted Granular Material per Item 203.02 of the State of Ohio Specifications, extending at least 3 feet beyond the edge of pavement.

At all utility crossings the trench backfill shall consist of compacted granular material between the deeper and shallower pipe.

The cost of compacted granular backfill where indicated shall be included in the cost bid per lineal foot of pipe and shall comply with Section 203.02 of the State of Ohio Specifications.

During construction the Contractor shall provide adequate drainage and proper soil erosion control measures for protection of all adjacent roads and lands. Refer to Item 207, Temporary Soil Erosion and Sediment Control, of the State of Ohio, Department of Transportation, Construction and Material Specifications.

SANITARY NOTES

All sanitary sewers or services constructed under this plan shall meet the requirements of Item 603 of the State of Ohio Specifications, and the pipe shall meet the requirements of ASTM C-700 or ASTM D-3034.

Roof drains, foundation drains and other clean water connections to the sanitary sewer system are prohibited on this project.

The Contractor shall perform deflection tests on all P.V.C. sanitary sewer pipe after backfilling and the maximum allowable deflection shall not exceed 5 percent.

WATER NOTES

The State of Ohio, Department of Transportation, Item 638 - Water Main and Service Branches, shall govern all water main construction items that are a part of this plan, unless otherwise noted.

All water line materials and installations shall be in accordance with the current rules and regulations of the City of Zanesville.

All water mains shall be disinfected in accordance with A.W.W.A. requirements. Special attention is directed to applicable sections of A.W.W.A. C-601, particularly for flushing (Section 5) and for chlorinating valves (Section 7). Cost of work is to be included in price bid for Item 638.

Water lines and services shall be laid with a minimum of 4'-0" from the top of finished grade to the top of the water line.

In case of conflict in grade between water lines and storm sewers, the water lines shall be lowered during construction.

Where the water line does not maintain 18" vertical separation above or below the sanitary sewer, the sanitary sewer should be constructed of, or encased in (as directed by the City Engineer), water main type materials which will withstand a 50 psi pressure test for a distance of 10 feet on both sides of the water main.

TRAFFIC CONTROL NOTES

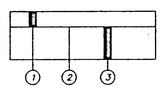
All traffic control devices shall be furnished, erected, maintained, and removed by the Contractor in accordance with the "Ohio Manual of Traffic Control Devices For Construction Operations", copies of which are available from the Ohio Department of Transportation, Bureau of Traffic, 25 South Front Street, Columbus, Ohio 43215.

All traffic lanes shall be fully opened to traffic from 7:00 to 9:00 A.M. and 4:00 TO 6:00 P.M. on Frazeysburg Road. One lane may be closed to traffic during working hours, in accordance with Page C-21 of the Ohio Manual.

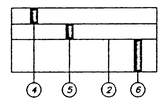
All trenches shall be backfilled or securely plated during non-working hours.

Access to all adjoining properties shall be maintained at all times.

Heavy Duty Pavement



STANDARD PAVEMENT SECTION
NO SCALE



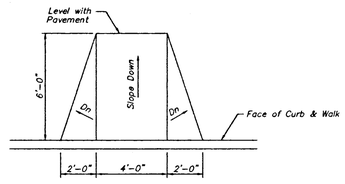
HEAVY DUTY PAVEMENT SECTION
NO SCALE

(1) 2" Hot Mixed, Hot Laid Asphalt Concrete, Item 404
(2) Prime Coat, Item 408 (0.20 Gals./S.Y.)
(3) 6" Aggregate Base, Item 304
(4) 1-1/2" Hot Mixed, Hot Laid Asphalt Concrete, Item 404.
(5) 1-1/2" Hot Mixed, Hot Laid Asphalt Concrete, Item 402.
(6) 8" Aggregate Base, Item 304 (Compacted in two equal layers).

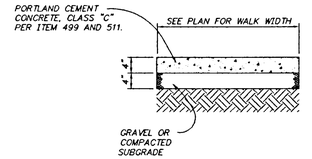
General location of proposed electric, telephone and Cable TV services, and gas meter are shown for coordination purposes. Verify locations with Building Plans.

NOTE: For Building Foundation Dimensions, See Architectural Plans. Coordinate locations and elevations of water and sanitary services with Plumbing plans.

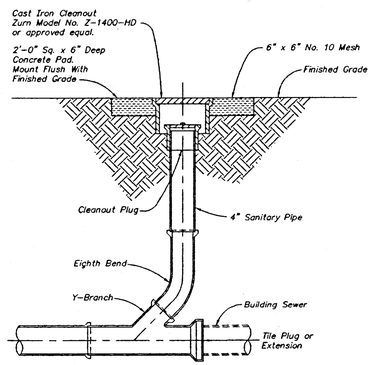
NOTE (A): Connect to proposed water service by others.
(B) Cast Iron Cleanout, Zurn Model No. Z-1400-HD or approved equal (See Detail).
(C) Combined Curb & Walk (See Detail)
(D) Asphalt Handicapped Ramp (See Detail).
(E) Taper Curb height from 6" to 0" in 5ft.
(F) 1' Curb Cut for drainage. Coordinate with Storm & Grading Plan.



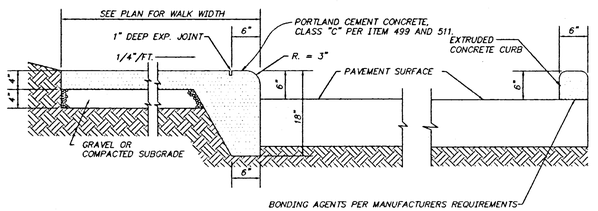
ASPHALT HANDICAPPED RAMP DETAIL
NO SCALE



CONCRETE WALK DETAIL
NO SCALE



OUTSIDE CLEANOUT DETAIL
NO SCALE



DETAIL OF COMBINED CURB & WALK, & EXTRUDED CONCRETE CURB
NO SCALE

ESTIMATE OF QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
638	403	L.F.	6" Water Pipe w/Type "B" Bedding
603	368	L.F.	6" Sanitary Service Pipe w/Type "B" Bedding
603	4	Ea.	Cleanout (See Note (B))
608	3,284	S.F.	Concrete Walk

NOTE RE: ESTIMATE OF QUANTITIES

These quantities are approximate only and are not to be used for preparation of cost estimates, bids, or any other estimating purpose without verification by the user. Any discrepancies in the quantities shall be brought immediately to the attention of the ENGINEER for evaluation.

H:\JOBS\DWG\96-113\MISC\ZANESSKI.DWG (X-ref = ZANES95)

ISSUED FOR CONSTRUCTION

~Prepared by~
C.F. BIRD & R.J. BULL, INC.
Consulting Engineers & Surveyors
2875 W. Dublin-Granville Rd.
Columbus, Ohio 43235

STATE OF OHIO
DAVID MICHAEL BRAY
E-43757
REGISTERED
PROFESSIONAL ENGINEER

By David M. Bray 5/8/97
David M. Bray ~ Ohio Engineer No. 43757 Date

C.F. BIRD & R.J. BULL, INC.
ENGINEERS / SURVEYORS
2875 W. DUBLIN-GRANVILLE RD.
COLUMBUS, OHIO

ZANESVILLE, OHIO

STAKING & UTILITY PLAN
FOR
ASSISTED LIVING CONCEPTS, INC.
3784 FRAZEYSBURG ROAD

SCALE: 1" = 30'			JOB NO. 96-113	1/1
DWN: DJH	CKD: DMB	DATE: 5/8/97		