

## 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's 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

All field line broken during excavation shall be replaced to its original condition, or connected to the storm sewer system as directed by the City Engineer.

All storm sewers constructed under this plan shall meet the requirements of Item 603 of the State of Ohio Specifications. Storm sewer pipe materials acceptable for use include C-76 Concrete Pipe, SDR 35 PVC Pipe, or Corrugated High Density Polyethylene Pipe (ADS N-12, or approved equal).

Storm Sewer under the proposed building shall meet the requirements of the Ohio Building Code. Pipe shall be Schedule 40 PVC with glued joints.

Backfill for utility construction within dedicated rights-of-way shall be compacted to meet the requirements of all adjacent roads and lands. Refer to Item 207, Temporary Soil Erosion and Sediment Control, 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 linear 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 Specifications, Department of Transportation, Construction and Material Specifications.

Land disturbance of areas less than five acres and not part of a larger common plan of development are not required to submit for approval, on erosion and sediment control plans; however the owner/operator proposing such land-disturbing activities shall be subject to inspection and state investigation by the City of Zanesville to determine compliance with the standards and regulations. Failure to comply with these regulations is subject to enforcement action by the City.

## ESTIMATE OF QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
601	5	C.Y.	Rock Channel Protection, Type "B"
603	720	L.F.	12" Storm Pipe w/Type "B" Bedding
603	65	L.F.	12" Storm Pipe w/Type "B" Bedding & Concrete Encasement
603	97	L.F.	12" Storm Pipe (Schedule 40 PVC w/Glued Joints)
603	217	L.F.	15" Storm Pipe w/Type "B" Bedding
604	1	Ea.	Headwall for 15" Pipe
604	4	Ea.	Area Drain (See Detail)
604	4	Ea.	ODOT 2-2-B Catch Basin
604	2	Ea.	ODOT 2-3 Catch Basin
605	120	L.F.	4" Perforated PVC Pipe Underdrain

### 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.

--- Designates Approximate Compacted Fill Limits

The area shown represents the limits of compacted fill for the development, including emergency vehicle access around the building. Any proposed fill within this area shall be compacted to meet the requirements of Section 203.12 of the State of Ohio Specifications, with a minimum 4" depth of topsoil provided in lawn areas to match the proposed grades.

The Earthwork Contractor is responsible for generating all earthwork quantities used in the preparation of his bid. The price bid for Item 203, Site Grading, shall include the cost associated with all labor, equipment and materials necessary to construct the project to the grades shown on this plan, including the placement of topsoil in landscape areas and the exchange and/or import of any required structural fill, if needed.

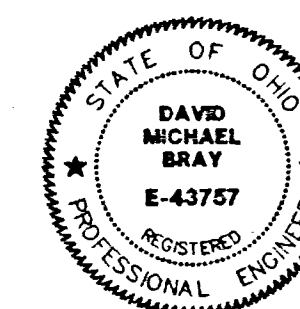
Any requirements for the import or export of material to obtain the grades shown shall be brought immediately to the attention of the ENGINEER for evaluation. Soil boring logs and subsurface exploration reports are available for review at the time of bidding.

Excess topsoil generated during the striping operation may be disposed of on-site through the filling of borrow areas or mounding if approved by the Owner's Representative in writing.

Areas disturbed by construction shall be seeded and mulched per Item 659, unless directed otherwise.

~Prepared by~

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



## ISSUED FOR CONSTRUCTION

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

ZANESVILLE, OHIO

STORM SEWER & GRADING PLAN  
FOR  
ASSISTED LIVING CONCEPTS, INC.  
3784 FRAZEYBURG ROAD

SCALE: 1" = 30'  
DWN: WSM CKD: DMB DATE: 5/8/97 JOB NO. 96-113 1/2

## STANDARD DRAWINGS

The Standard Drawings listed on this plan shall be considered a part thereof.

ODOT

CB-2-2B

CB-2-3

HW-4B

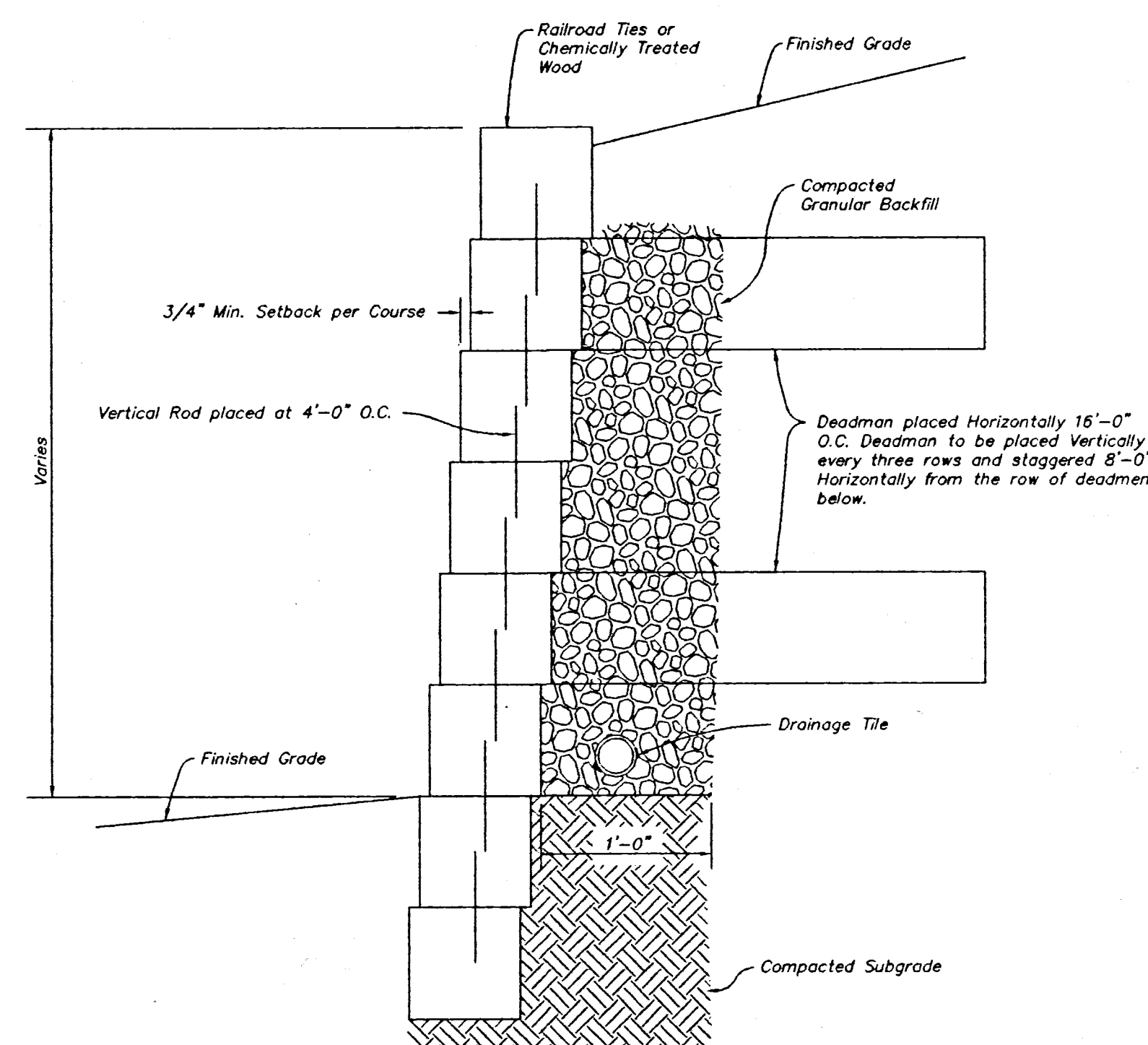
## BENCH MARKS

#1 Northeast Corner of Concrete Base of "Prepare to Stop When Flashing" Sign.  
Elev. = 800.63

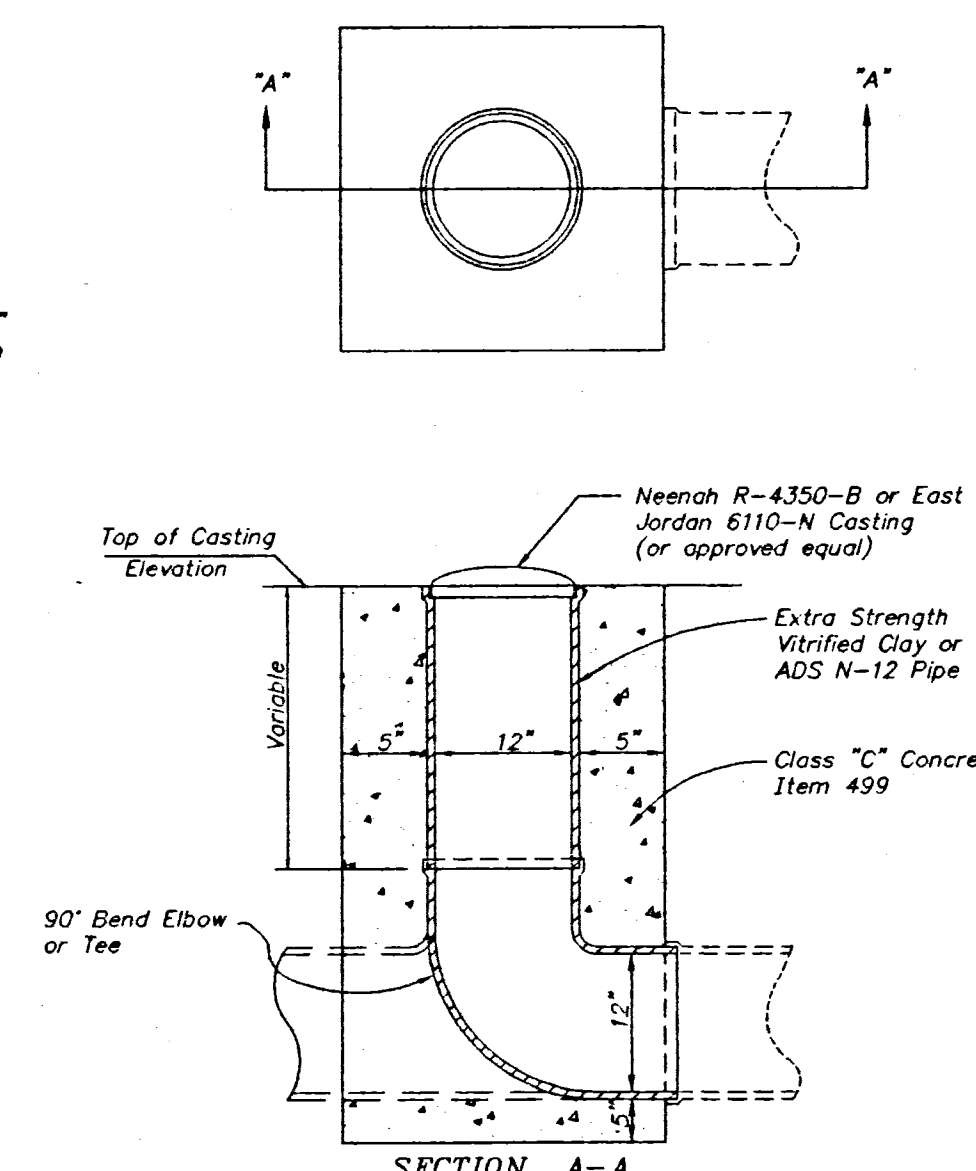
#2 Railroad Spike in Utility Pole at the Northeast Corner of S.R. 60 and Richey Road.  
Elev. = 778.39

STRUCTURE NUMBER	PONDING REQUIRED	PONDING PROVIDED	STORAGE ELEVATION
1	3972	4300	803.8
TOTAL	3972 C.F.	4300 C.F.	

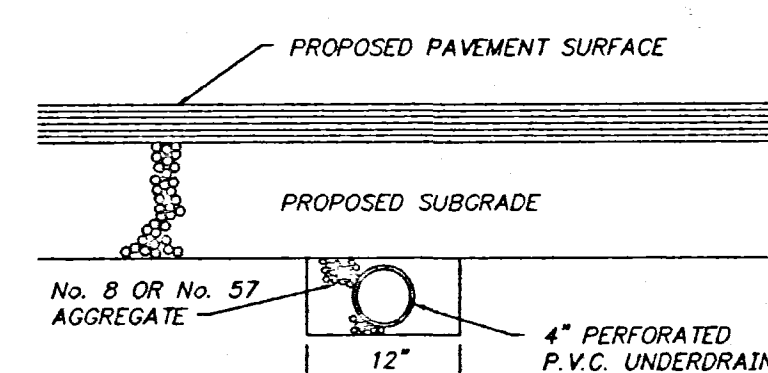
NOTE: Shaded area represents limits of ponding.



DETAIL OF WOODEN TIMBER RETAINING WALL  
NO SCALE



AREA DRAIN DETAIL  
NO SCALE



SUBGRADE DRAIN TRENCH DETAIL

- (A) Install 15 foot lengths of 4" perforated P.V.C. underdrain at all structures within pavement areas per the above detail. The underdrain is to be installed at a 1.00% grade toward the structure, with the upstream end plugged, and the invert at the structure 18" below the proposed rim elevation. The underdrain shall be protected from construction traffic after installation.
- (B) Contractor shall provide 15" diameter wall sleeves where required for courtyard storm sewer pipe. Sleeves shall be ductile iron pipe, Class 52 or Schedule 40 black steel pipe. Voids between storm pipe and wall sleeve to be filled with cement grout (one part portland cement and three parts fine aggregate by volume). See General Notes re: pipe material and construction.
- (C) Curb cut for drainage with Rock Channel protection, Type "B" 10' x 3' x 1-1/2".
- ↑ Indicates direction of major flood routing.