

## City of O'Fallon

### General Notes

- Gas, water and other underground utilities shall not conflict with the depth or horizontal locations of existing and proposed sanitary and storm sewers, including house laterals.
- Underground utilities have been plotted from available information and, therefore, their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor, and shall be located prior to grading or construction of improvements.
- Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR-15.
- Storm sewers 18" in diameter or smaller shall be ASTM C-14.
- Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
- All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class III) unless noted otherwise on the plans.
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe S-M, A.A.S.H.O. See plans for gauge.
- All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a Soils Engineer.
- All earthen filled places within State, County, or City roads (Highways) shall be compacted to 90% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a Soils Engineer.
- All storm and sanitary trench backfills shall be water jetted. Granular fill will be used under paved areas.
- Easements shall be provided for storm sewers, sanitary sewers, and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
- No area shall be cleared without the permission of the developer.
- All grade shall be within 0.2 feet (more or less) of those shown on the grading plan.
- No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.

15. Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices", end of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.

16. All manhole and curb inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to remove all face stakes from destruction.

17. All standard street curb inlets to have front of inlet 2 feet behind curb.

18. The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance of not less than 2-1/2 feet.

19. Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.

20. All cast iron pipe for water mains shall conform to A.W.W.A. specification C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification C-111.

21. All water hydrants and valves shall be cast iron and installed in accordance with plans and details.

22. All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.

23. All PVC water pipe shall have a minimum pressure rating of PM-200 or SDR-21.

24. All PVC sanitary sewer pipe shall be DR-35 or equal with crushed stone bedding uniform in size between 1" and 1-1/4" size. This bedding shall extend from 6" below the pipe to 12" above the top of the pipe.

25. All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way markers shall be reset at the completion of grading.

26. All streets must meet the specifications and installation requirements of the City of O'Fallon.

27. All sanitary manhole tops shall be set 0.2' higher than the proposed ground except in pavement areas.

28. All sanitary manholes shall have a 31 mil thick coat of coal tar pitch waterproofing.

29. All sanitary service lines shall have a 6" diameter for Multi-family and a 4" diameter for Single-family developments.

30. Manhole frame and cover shall be Clay and Bailey No. 2008 for Neenah R-1736 or Beeter 1315 or approved equal.

31. A drop of 0.2 foot is required through each sanitary manhole.

32. The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.

33. Brick shall not be used on manholes.

34. Sewer contractor shall maintain 24' vertical separation between all storm sewers and the sludge force main. Contractor shall be responsible for verifying separation prior to storm sewer installation.

35. This tract is served by:

CUIVRE RIVER ELECTRIC

ST. CHARLES GAS COMPANY

CONTINENTAL TELEPHONE

ST. CHARLES CO. WATER DIST. #2

DUCKETT CREEK SEWER DIST.

O'FALLON FIRE PROT. DIST.

FORT ZUMWALT R-2 SCHOOL DIST.

36. All sanitary sewer manholes shall be waterproofed on the exterior, in accordance w/ Mo Dept. of Natural Resources Specifications. 10 C.S.R. 8.120 (7)(E).

# "AS-BUILTS" MALLARD POINTE

## MALLARD POINTE PROPERTY DESCRIPTION 21.860 ACRE TRACT

A tract of land being part of U.S. Survey 1771, and Fractional Section 1, Township 46 North, Range 3 East, St. Charles County, Missouri and being more particularly described as follows:

BEGINNING at a point marking the intersection of the North line of J.S. Survey 1771 at an angle point in the East line of Stony Brook Subdivision as recorded in Plat Book 20 Page 181 of the St. Charles County, Missouri records; thence leaving the North line of said U.S. Survey 1771 along the East line of said Stony Brook, North 24°22'26" East, a distance of 1307.56 feet to a point in the center line of Feise Road (40' wide); thence along said centerline South 89°07'24" East, a distance of 49.44 feet to an angle point in said centerline; thence continuing along said centerline South 89°07'24" East, a distance of 150.56 feet to a point; thence leaving said centerline along the West line of Bayfield Plat Two (Subdivision) as recorded in Plat Book 21 Page 91 of the said St. Charles County, Missouri records and its extension, South 09°19'45" East, a distance of 1531.59 feet to a point; thence along the northern line of the Bayfield/Amarillo Village Future Development the following courses: South 50°06'39" West, a distance of 126.88 feet to a point; thence North 35°18'42" West, a distance of 207.68 feet to a point; thence North 37°10'59" West, a distance of 781.77 feet to a point on the East line of the aforementioned Stony Brook (Subdivision); thence along said East line North 23°59'18" East, a distance of 92.21 feet back to the POINT OF BEGINNING and containing 952.243 square feet or 21.860 acres more or less according to a boundary survey by Pickett, Ray & Silver, Inc., during the month of April 1990.

## Index

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## Benchmark

DC-1, "Δ" CUT AT WEST END, TOP OF CONCRETE CURB AT ENTRANCE TO BAYFIELD SUBD., ON FEISE ROAD.  
ELEVATION: 615.05

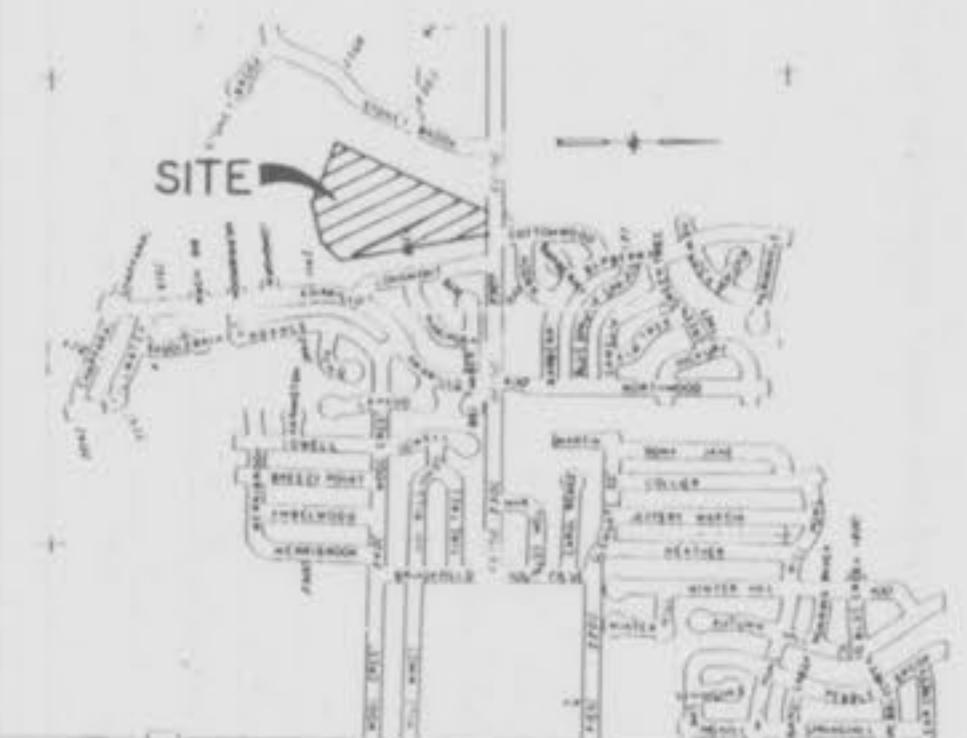
## REVISIONS PER PLAT 2 IMPROVEMENTS JUNE, 1991

## REVISIONS PER PLAT 3 IMPROVEMENTS FEBRUARY, 1992

## Legend

|    |                                 |        |                          |
|----|---------------------------------|--------|--------------------------|
| □  | Sanitary Sewer (Proposed)       | C.I.   | Curb Inlet               |
| □  | Sanitary Sewer (Existing)       | D.C.I. | Double Curb Inlet        |
| □  | Storm Sewer (Proposed)          | G.I.   | Grate Inlet              |
| □  | Storm Sewer (Existing)          | A.I.   | Area Inlet               |
| □  | Water Line & Pipe               | D.A.I. | Double Area Inlet        |
| □  | Water Line                      | C.C.   | Concrete Collar          |
| □  | Flared End Section              | F.E.   | Flared End Section       |
| □  | End Pipe                        | E.P.   | End Pipe                 |
| 18 | Lot or Building Number          | E.D.   | Energy Dissipator        |
| □  | Existing Fence Line             | M.H.   | Manhole                  |
| □  | Existing Tree Line              | C.P.   | Concrete Pipe            |
| □  | Street Sign                     | R.C.P. | Reinforced Concrete Pipe |
| □  | Direction of Proposed Residence | C.M.P. | Corrugated Metal Pipe    |
| □  | Existing Contour                | C.I.P. | Cast Iron Pipe           |
| □  | Proposed Contour                | P.V.C. | Polyvinyl Chloride       |
| □  | Graded Rip-Rap                  | V.C.P. | Vitrified Clay Pipe      |
| □  | End of Lateral                  | C.O.   | Clean Out                |
| □  | Asphalt Pavement                | V.T.   | Vent Trap                |
| □  | Concrete Pavement               |        |                          |
| □  | Storm Sanitary Structure        |        |                          |
| □  | Test Pole                       |        |                          |
| □  | Power Pole                      |        |                          |
| □  | Light Standard                  |        |                          |

## Location Map



**GENERAL NOTES**

- A Geotechnical Engineer shall be employed by the owner and be on site during grading operations.
- The grading contractor shall perform a complete grading and compaction operation as shown on the plans, stated in these notes and reasonably implied therefrom, all in accordance with the plans and notes as interpreted by the geotechnical engineer.
- The Contractor shall notify the Soils Engineer at least two days in advance of the start of the grading operation.
- All areas will be allowed to drain. All low points should be provided with temporary ditches.
- A sediment control plan that includes monitored and maintained sediment control basins and/or storm water ponds shall be provided. Sediment control basins are to be seeded and mulched. Care should be exercised to prevent soil from damaging adjacent property and silting up existing downstream storm drainage systems.
- Debris and foundation material from any existing on-site building or structure which is scheduled to be razed for this development must be disposed of off-site, or buried on site.
- Any existing trash and debris currently on this property must be removed and disposed of off-site, or buried on site.
- Soft soils in the bottom and banks of any existing or former pond site should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on storm sewer locations.
- Site preparation includes the clearance of all stumps, trees, bushes, shrubs, and weeds; the grubbing and removal of roots and other surface obstructions from the site; and the demolition and removal of any man-made structures. The unsuitable material shall be properly disposed of off-site. Topsoil and grass in the fill areas shall be thoroughly discarded prior to the placement of any fill. The Soils Engineer shall approve the discarding operation.
- The sequence of operation in the fill areas will be fill, compact, verify acceptable soil density, and repetition of the sequence. The acceptable moisture contents during the filling operation are those at which natural dry densities can be obtained by the acceptable moisture contents during the filling operation in the remaining areas are from 2 to 8 percent above the optimum moisture control.
- Measured as a percent of the maximum dry density as determined by the Proctor test (ASTM D-698). This is to certify to Pickett, Ray & Silver, Inc. that these "As-Built" San/Storm plans are based upon field surveys conducted during March, 1992 and the results are shown here on.
- Note: Trash & Debris shall be disposed in the detention basin area, & other designated areas, as shown on site. Also, all debris shall be buried a minimum of 3' below finished grade.

| CATEGORY  | MINIMUM PERCENT COMPACTION |
|---|----------------------------|
| Fill in building areas below footings, walls, walks and pavements | 90%                        |
| Fill other than building areas                                    | 90%                        |
| Natural subgrade  | 90%                        |
| Pavement upgrade  | 90%                        |
| Pavement - loose class base course                                | 90%                        |

Moisture content must be within 2 percent below or 4 percent based on actual field surveys conducted above optimum moisture content if fill is deeper than 10 feet during March, 1992 and the results are shown here on.

by Pickett, Ray & Silver

Delmar F. Vincent  
MO R.L.S. No 1869

DRAWN: D.P.T.D. DATE: June, 1990  
CHECKED: DATE:

FIELD BOOK: 477 PROJECT #: 90-040  
JOB ORDER #: 18362

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.92 As-Builts

*FLAT PLAN  
MALLARD POINTE*

JUNE, 1990

040

7.2.91 DCSD Td<sub>3</sub>  
2.10.92 Plot 3 Td<sub>3</sub>

Rev. 7-27-90 today City of O'Fallon Comments.  
Rev. 8-6-90 Keweenaw Duckrkt Creek comment.

General Notes

- Plat 1 (Phase 1) - 31 lots  
Display Houses on lots 2,3,4,4  
Lot setbacks  
25' Front  
6' Side  
25' Rear  
Present Zoning (R1 E)  
Minimum lot width - 70'  
Minimum lot area - 7,000 sf.  
Minimum dwelling size - 775 sf.  
All streets in development shall be dedicated  
to the public  
All utilities shall be located underground.  
Due to rock elevations laterals 29 & 30  
are shallower than normal. Field verify  
lateral elevations prior to constructing houses

NOTE: SHADED "BALLOONS"  
INDICATE "AS-BUILT" STRUCTURES.

The connection at Feise Rd  
shall be concrete pavement  
to existing asphalt, saw cut  
2" of asphalt, providing an  
uniform edge for connection

NOTE: Sediment in Basin shall be removed every 2 years per the City of O'Fallon. 8/30/90 Rdy

NOTE:  
ALL EXISTING BUILDINGS, PAVEMENT AND  
OTHER IMPROVEMENTS SHALL BE DEMOLISHED  
AND/OR BURIED (IN DESIGNATED AREAS) OR  
REMOVED FROM THE SITE, AS DIRECTED BY THE  
SOIL ENGINEER OR PICKETT, RAY AND SILVER.

**NOTE:** underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

"AS-BUILTS"

3. 31.92 As-Builts

Sanitary Sewer Profiles  
Mallard Pointe

June 1990 90000

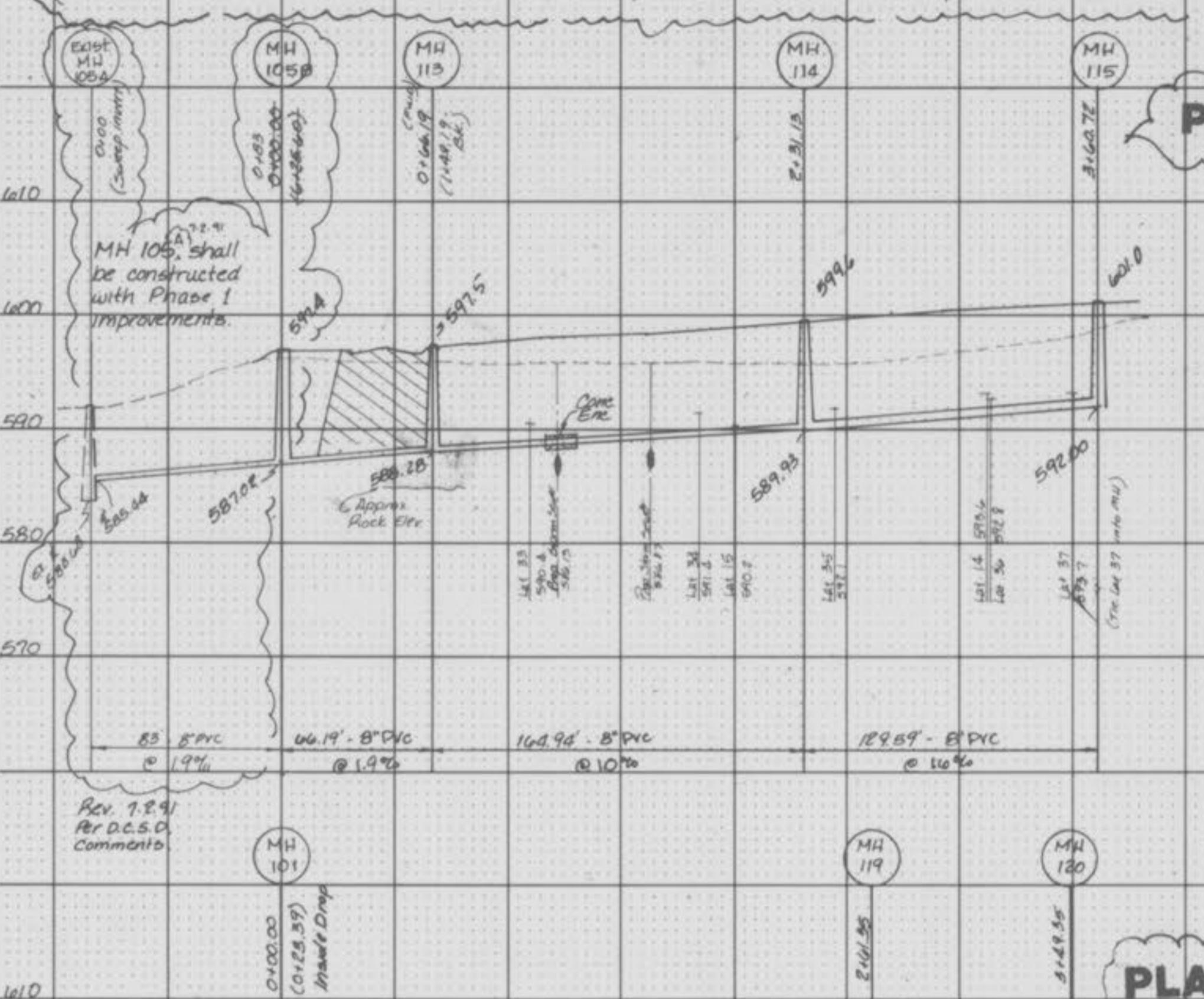
Rev. 7.29 90 TAB  
Rev. 2-1990 KW Itch (sewer %)  
Rev. 8/15/90 TAB DCSO  
Rev. 6/27/91 TAB - Plat C. info  
Rev. 7/2/91 TAB per D.C.S.D. comments  
Rev. 2/10/92 TAB Hat 3.

| FINAL SURVEY  | DATE     |
|---------------|----------|
| SURVEYED      | PLOTTED  |
| NOTE BOOK     | TEMPLATE |
| AREAS CHECKED | NO.      |

| ORIGINAL SURVEY | DATE     |
|-----------------|----------|
| SURVEYED        | PLOTTED  |
| NOTE BOOK       | TEMPLATE |
| AREAS CHECKED   | NO.      |

Due to Rock MH 105 has been relocated. MH's 105A & 105B have been added - see plat. Plat. sheet 918. MH 105A is existing along w/ Lat 59.1'. MH 105B shall be constructed with Phase 1 improvements.

PLAT 2



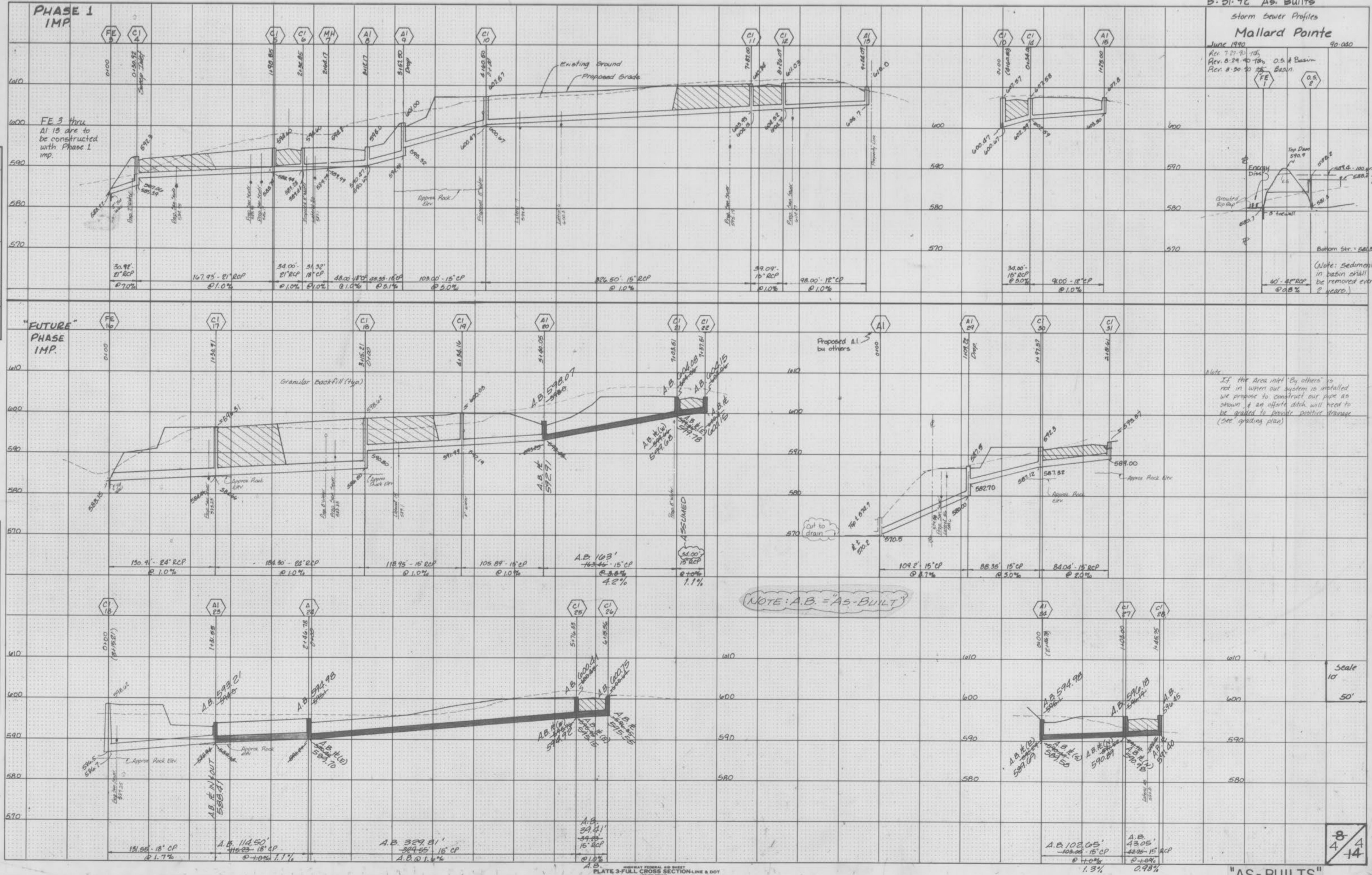
3-31-92 As-Builts

## Storm Sewer Profiles Mallard Pointe

June 1990 90-030

27.90 15<sub>3</sub>  
29.90 15<sub>3</sub> 0.5 ft Basin

133



## "AS-BUILTS"