



A SET OF AS-BUILT PLANS FOR

HAWKINS CONSTRUCTION

A TRACT OF LAND BEING ALL OF LOT 2 OF
"ELM STREET PLACE" IN FRACTIONAL SECTION 28,
TOWNSHIP 47 NORTH, RANGE 3 EAST
OF THE FIFTH PRINCIPAL MERIDIAN
ST. CHARLES COUNTY, MISSOURI

PRINCIPLES & STANDARDS:

1. All excavations, grading, or filling shall have a finished grade not to exceed a 1:1 slope (33%). Steeper grades may be required by the designated official if the excavation is through rock or the excavation or the fill is adequately protected (a designed head wall or toe wall may be required). Retaining walls that exceed a height of four (4) feet shall require the construction of safety guards as identified in the appropriate section(s) of the adopted BOCA Codes and must be approved by the Building Department. Permanent safety guards will be constructed in accordance with the appropriate section(s) of the adopted BOCA Codes.

2. Sediment and erosion control plans for sites that exceed 20,000 square feet of grading shall provide for sediment or debris basins, silt traps or filters, staked straw bales or other approved measures to remove sediment from run-off waters. The design to be approved by the Designated Official. Temporary siltation control measures (structural) shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site.

3. Where natural vegetation is removed during grading, vegetation shall be reestablished in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible during the next seeding period after grading has been completed.

4. When grading operations are completed or suspended for more than 30 days permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be provided according to the City Engineer's recommendations. All finished grades (areas not to be disturbed by future improvement) in excess of 20% slopes (5:1) shall be mulched and topped at the rate of 100 pounds per 1,000 square feet when seeded.

5. Provisions shall be made to accommodate the increased runoff caused by changed soils and surface conditions during and after grading. Unvegetated open channels shall be designed so that results resulting in velocities of 2 fpm (feet per second) or less. Open channels shall be velocities of more than 2 fpm, headwalls shall be established to prevent vegetation by use of commercial erosion control blankets or lined with rock rip rap or concrete or other suitable materials as approved by the City Engineer. Detention basins, diversions, or other appropriate structures shall be constructed to prevent velocities above 5 fpm.

6. The adjoining ground to development sites (lots) shall be provided with protection from accelerated and increased surface water, silt from erosion, and any other consequence of erosion. Run-off water from developed areas (parking lots, paved sites and buildings) above the area to be developed shall be directed to diversions, detention basins, concrete gutters and/or underground outlet systems. Sufficiently anchored straw bales may be temporarily substituted with the approval of the City Engineer.

7. Development along natural watercourses shall have residential lot lines, commercial or industrial improvements, and/or driveways built a minimum of 10 feet from the top of any existing stream banks. The watercourse shall be maintained and made the responsibility of the subdivision trustees or in the case of a site plan by the property owner. Permanent vegetation should be left intact. Variances will include designed stream bank erosion control measures and shall be approved by the City Engineer. FEMA and U.S. Army Corps of Engineers guidelines shall be followed where applicable regarding site development areas designated as flood plains and wetlands.

8. All lots shall be seeded and mulched at the minimum rates defined in Appendix A or sodded before an occupancy permit shall be issued except that a temporary occupancy permit may be issued by the Building Department in cases of undue hardship because of unfavorable ground conditions.

VEGETATIVE ESTABLISHMENT For Urban Development Sites APPENDIX A

Seeding Rates:

Permanent:
Tall Fescue - 30 lbs./ac.
Smooth Brome - 20 lbs./ac.
Combined Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.

Temporary:
Wheat or Rye - 150 lbs./ac. (3.5 lbs. per square foot)
Oats - 120 lbs./ac. (2.75 lbs. per square foot)

Seeding Periods:
Fescue or Brome - March 1 to June 1
August 1 to October 1
Wheat or Rye - March 15 to November 1
Oats - March 15 to September 15

Mulch Rates:
100 lbs. per 1,000 sq. feet (4,356 lbs. per acre)

Fertilizer Rates:
Nitrogen 30 lbs./ac.
Phosphate 30 lbs./ac.
Potassium 30 lbs./ac.
Lime 600 lbs./ac. ENM*

* ENM = effective neutralizing material as per State evaluation of
quarried rock.

GRADING QUANTITIES:

8,341 C.Y. CUT	(INCLUDES SUBGRADES)
26,510 C.Y. FILL	(INCLUDES 15% SHRINKAGE)
18,169 C.Y. SHORT	

THE ABOVE GRADING QUANTITY IS APPROXIMATE ONLY, NOT FOR
BIDDING PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES PRIOR
TO CONSTRUCTION.

AS-BUILTS ADDED MARCH 2006.

O'FALLON NOTES

1. Underground utilities have been plotted from available information and therefore their locations shall 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 any grading or construction of the improvements.

2. Sediment and erosion control plans for sites that exceed 20,000 square feet of grading shall provide for sediment or debris basins, silt traps or filters, staked straw bales or other approved measures to remove sediment from run-off waters. The design to be approved by the Designated Official. Temporary siltation control measures (structural) shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site.

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AS-BUILTS ADDED MARCH 2006.

O'FALLON NOTES (CONTINUED)

27. Developer must supply City Construction Inspectors with soil reports prior to or during site soil testing. The soil report will be required to contain the following information on soil test curves (Proctor reports) for projects within the City:

1. Maximum dry density
2. Optimum moisture content
3. Maximum and minimum allowable moisture content
4. Curve must be plotted to show density from a minimum of 90% maximum density as determined by the "Modified AASHTO T-180 Compaction Test, or 95% of maximum density as determined by the standard Proctor Test AASHTO T-99. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. All plots shall be submitted to the City of O'Fallon for review and approval. All test shall be verified by a soils engineer concurrent with grading and backfilling operations. Ensure the moisture content of the soil in the fill areas is to correspond to the compactive effort as defined by the Standard or Modified Proctor Test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to the City of O'Fallon prior to the placement of fill. Proof rolling may be required to verify soil stability of the description of the City of O'Fallon.

5. No area shall be cleared without the permission of the Project Engineer.

6. The City of O'Fallon shall be notified 48 hours prior to construction for coordination and inspection.

7. All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match pre-construction conditions.

8. All construction and materials shall conform to the current construction standards of the City of O'Fallon.

9. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.

10. No slopes shall exceed 3(Horizontal) : 1(Vertical).

11. The Contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The Contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or siltation fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/or the City of O'Fallon and/or MoDOT. The Contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/or the City of O'Fallon and/or MoDOT may at their option direct the Contractor to his methods as deemed fit to protect property and improvements. Any depositing of silt or mud on new or existing pavement or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City of O'Fallon and/or MoDOT.

12. Erosion control systems shall not be limited to what is shown on the plan. Whatever means necessary shall be taken to prevent siltation and erosion from entering natural streams and adjacent roadways, properties and ditches.

13. All building mounted lights shall be pointed downward and fully screened to prevent light from spilling over onto adjacent properties.

14. All ground and roof hvac mechanical units to be screened from view.

15. The Developer must supply City Construction Inspectors with soil reports prior to or during site soil testing.

16. All paving to be in accordance with St. Charles County standards and specifications except as modified by the City of O'Fallon ordinances.

17. All sidewalks, curb ramps, ramps and accessible parking spaces shall be constructed in accordance with the current approved "Americans with Disabilities Act Accessibility Guidelines" (ADAAG) along with the required grades, construction materials, specifications and signage. If any conflict occurs between the above information and the plans, the ADAAG guidelines shall take precedence and the contractor prior to any construction shall notify the Project Engineer. Ensure at least one 8' wide handicap access aisle is provided and curb ramps do not project into handicap access aisles.

18. Brick shall not be used in the construction of storm or sanitary sewer structures.

19. The Contractor shall ensure all storm and sanitary sewer joint shall be gasketed O-Ring Type.

20. Lighting values will be reviewed on the site prior to the final occupancy inspection. Corrections will need to be made if not in compliance with City standards.

21. All proposed fencing requires a separate permit through the Planning Division.

22. All sign locations and sizes must be approved separately through the Planning Division.

23. All erosion control systems shall be inspected and necessary corrections shall be made within 24 hours of any rainstorm resulting in one-half inch of rain or more.

24. All graded areas that are to remain bare for over 2 weeks shall be seeded and mulched per DNR requirements.

25. Rip-rap shown at flared ends will be evaluated in the field after installation for effectiveness and field modified if necessary to reduce erosion on and off-site.

26. Marking to be provided on storm sewer inlets. The City will allow the following marker and adhesive procedures only as shown in the table below. "Peel and Stick" adhesive pads will not be allowed.

27. All sign posts and bracket arms shall be painted black using Coroline Rustbond Penetrating Sealer SG and Coroline 133 HB paint (or equivalent as approved by the City of O'Fallon and MoDOT). Sign designating street names shall be on the opposite side of the street from traffic control signs.

28. All new utility line shall be located underground.

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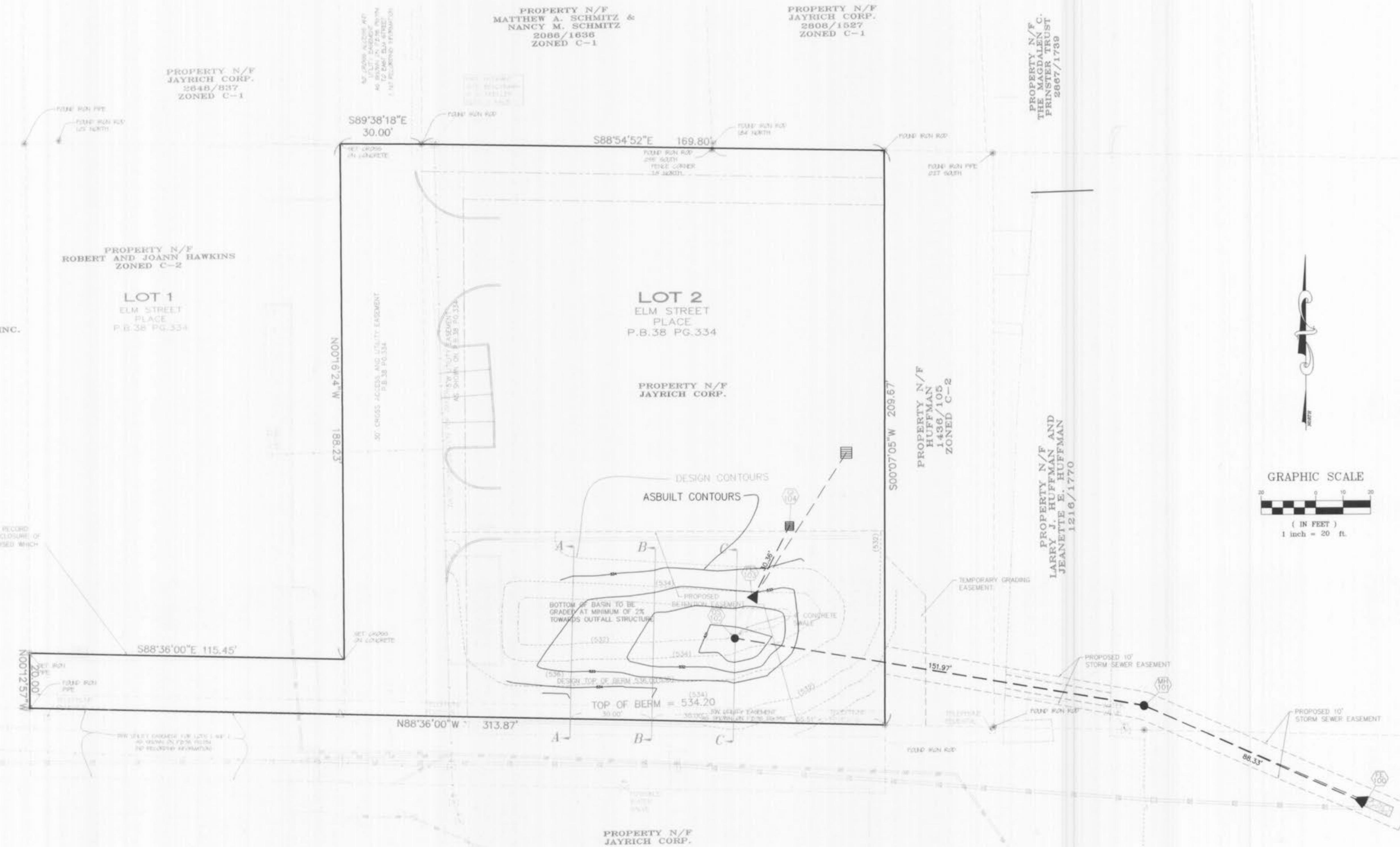
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REVISIONS
04-17-2006
PER CITY COMMENTS
05-19-2006
PER CITY COMMENTS
09-26-2006
PER CITY COMMENTS

AN AS-BUILT SITE PLAN FOR
HAWKINS CONSTRUCTION
03-12726

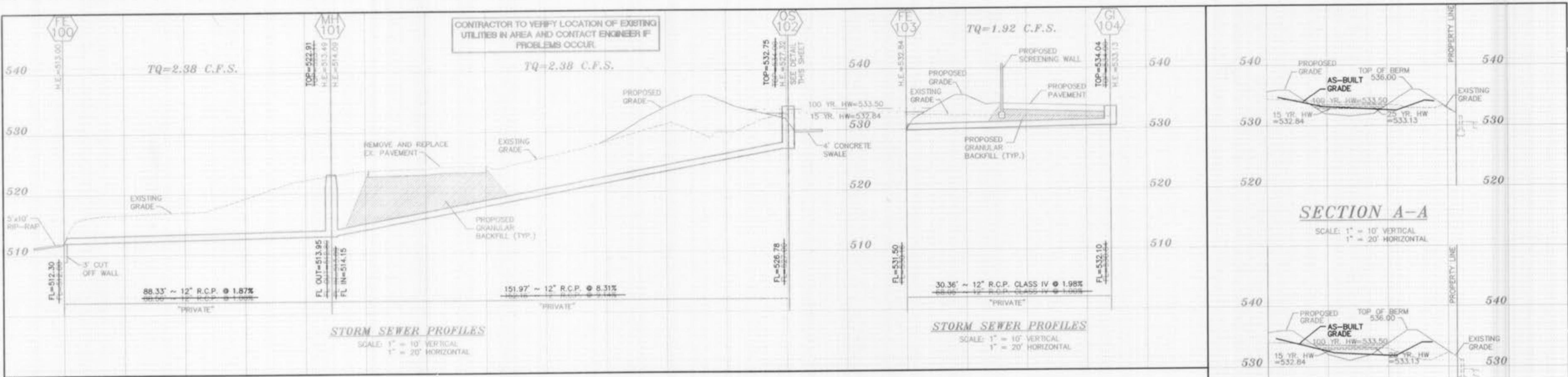
7-12-05



AS-BUILTS ADDED MARCH 2006.



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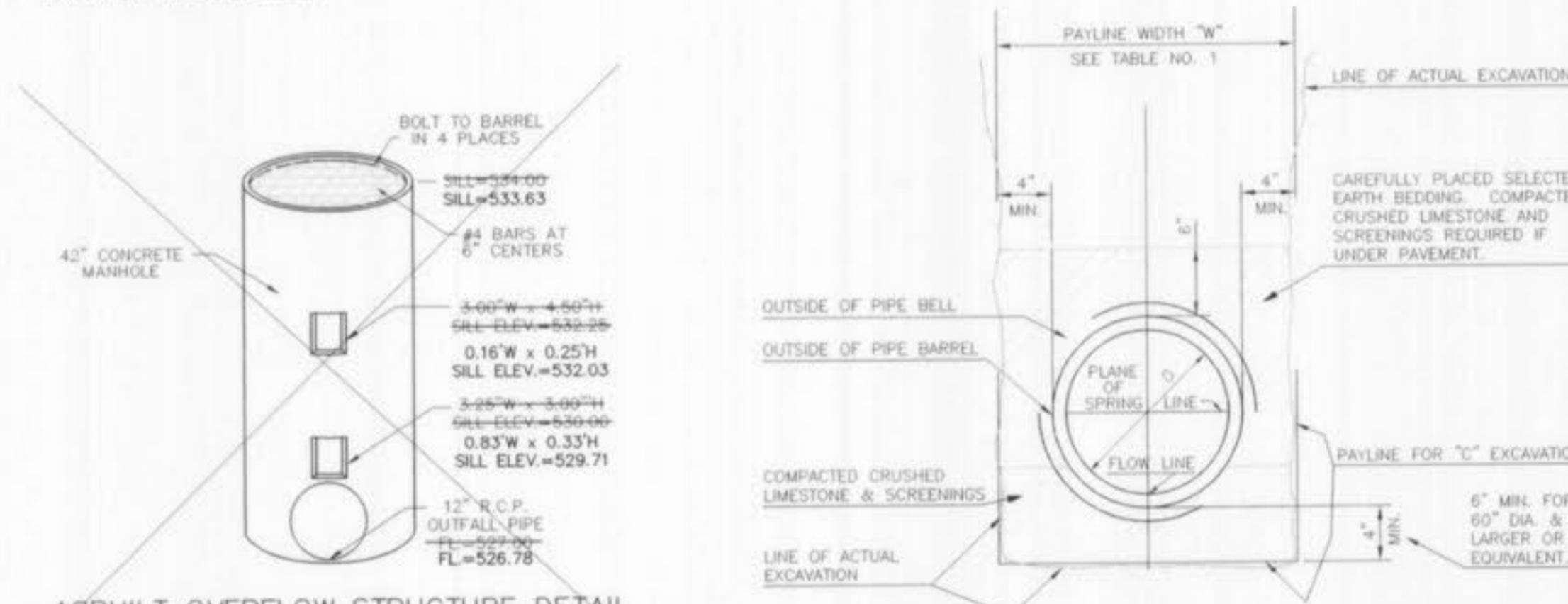


BAX PROJECT NAME : HAWKINS CONSTRUCTION AS-BUILT
BAX PROJECT NO. : 03-12726
DESIGN DATE : 04-26-2006
DESIGNED BY : JLJ

DESIGN DATE : 04-26-2006
DESIGNED BY : JLJ FILENAME: 12726AS

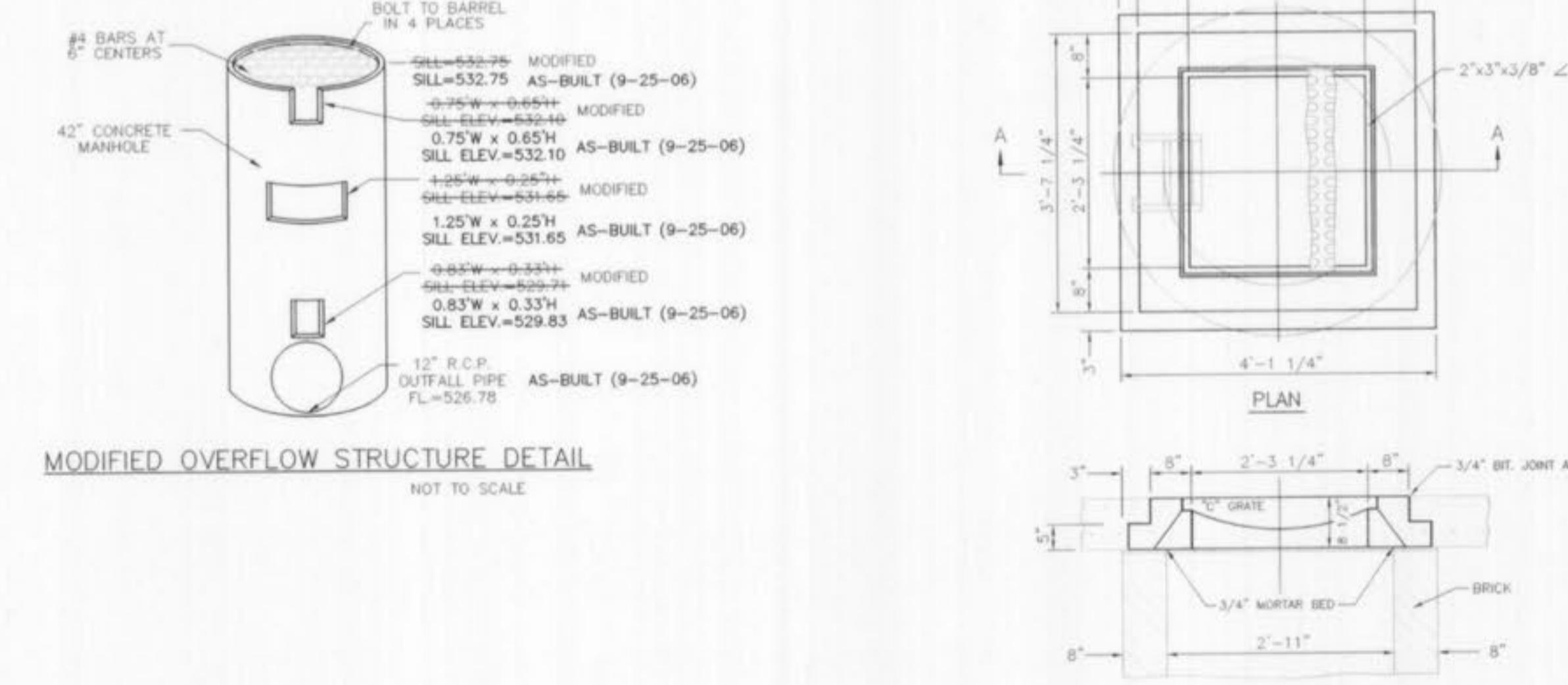
FILENAME: 12726ASE

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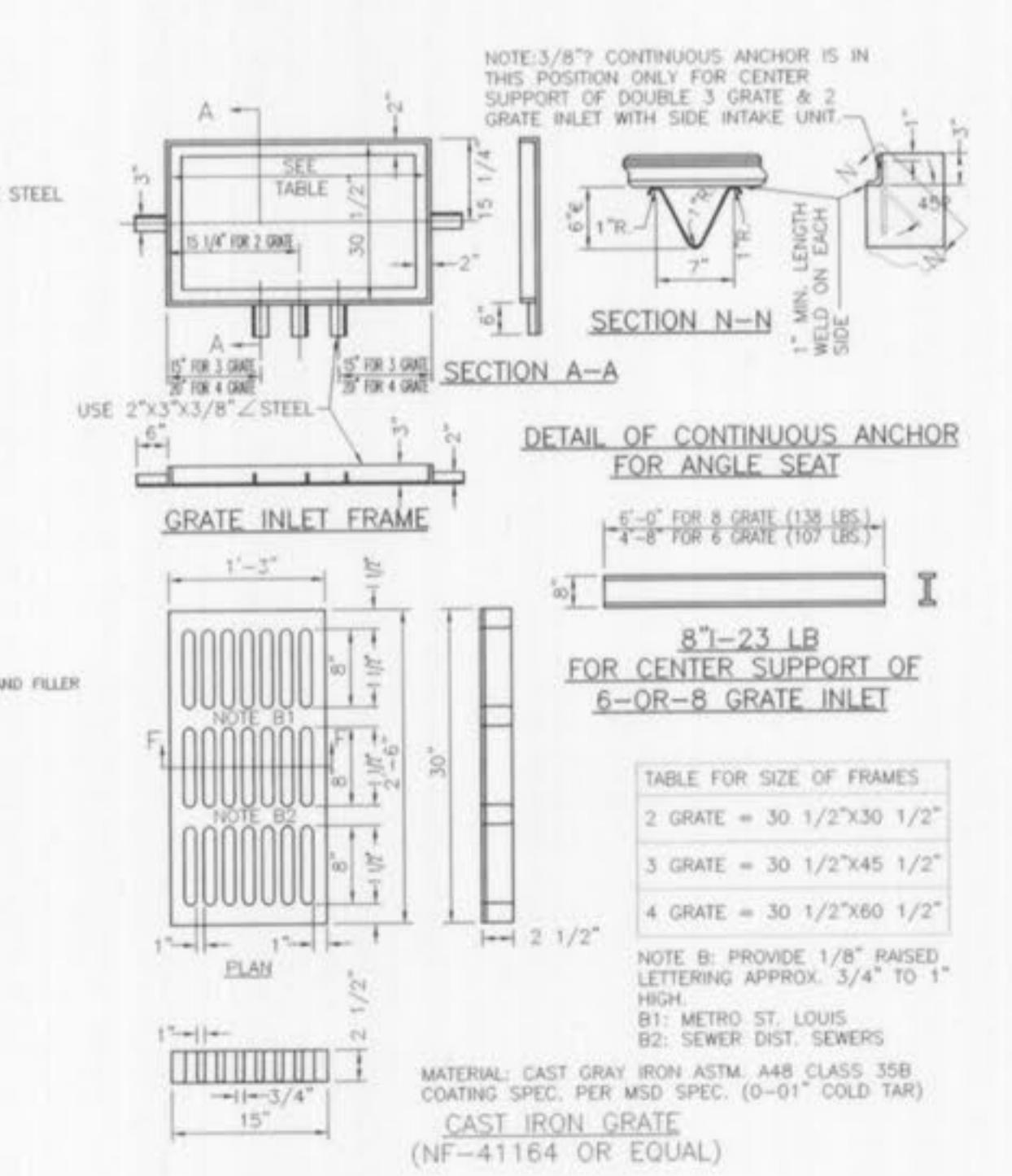
ASBUILT OVERFLOW STRUCTURE DETAIL

NOT TO SCALE

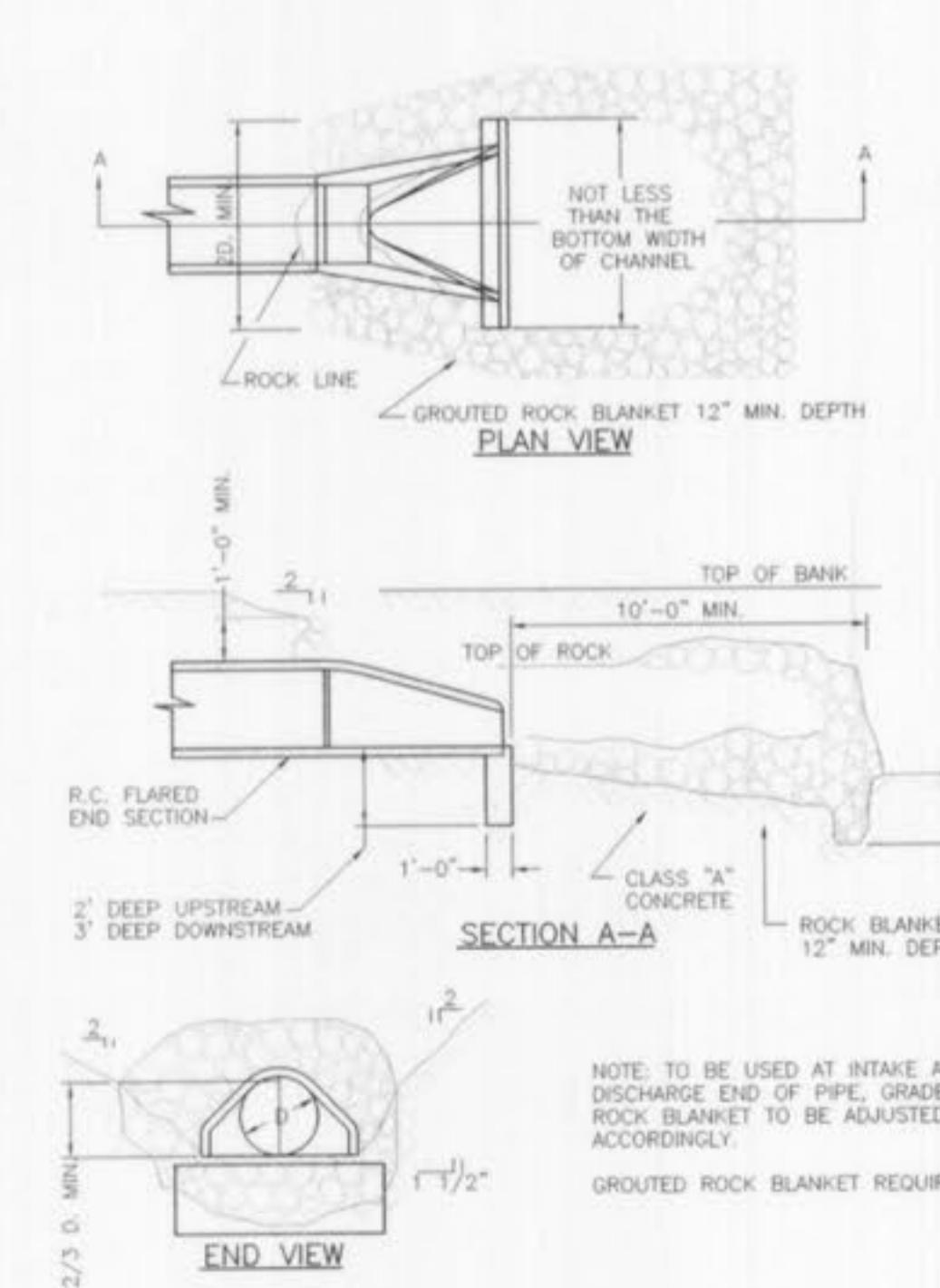


MODIFIED OVERFLOW STRUCTURE DETAIL

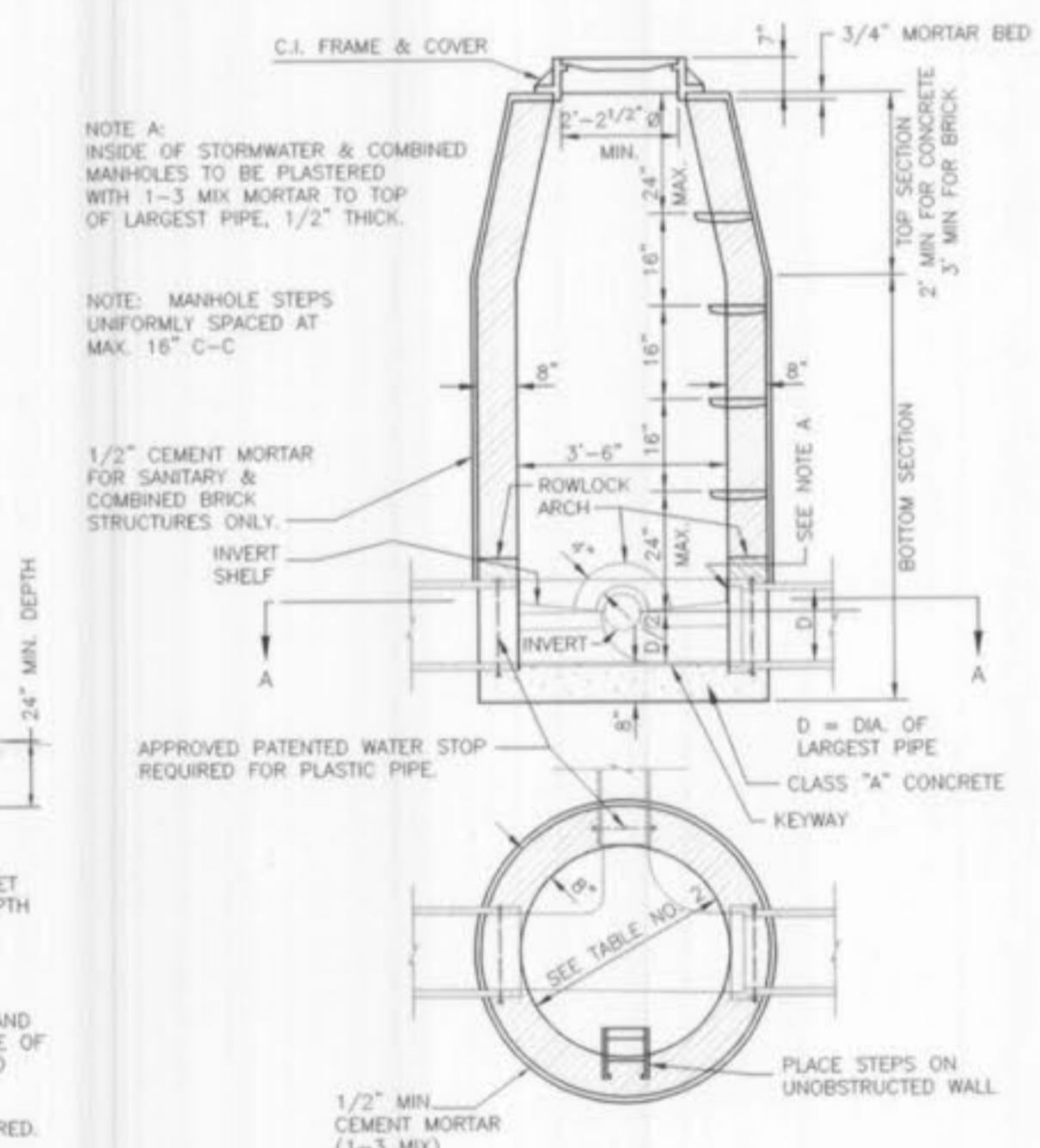
NOT TO SCALE



DETAILS OF INLET
FRAME AND GRATES



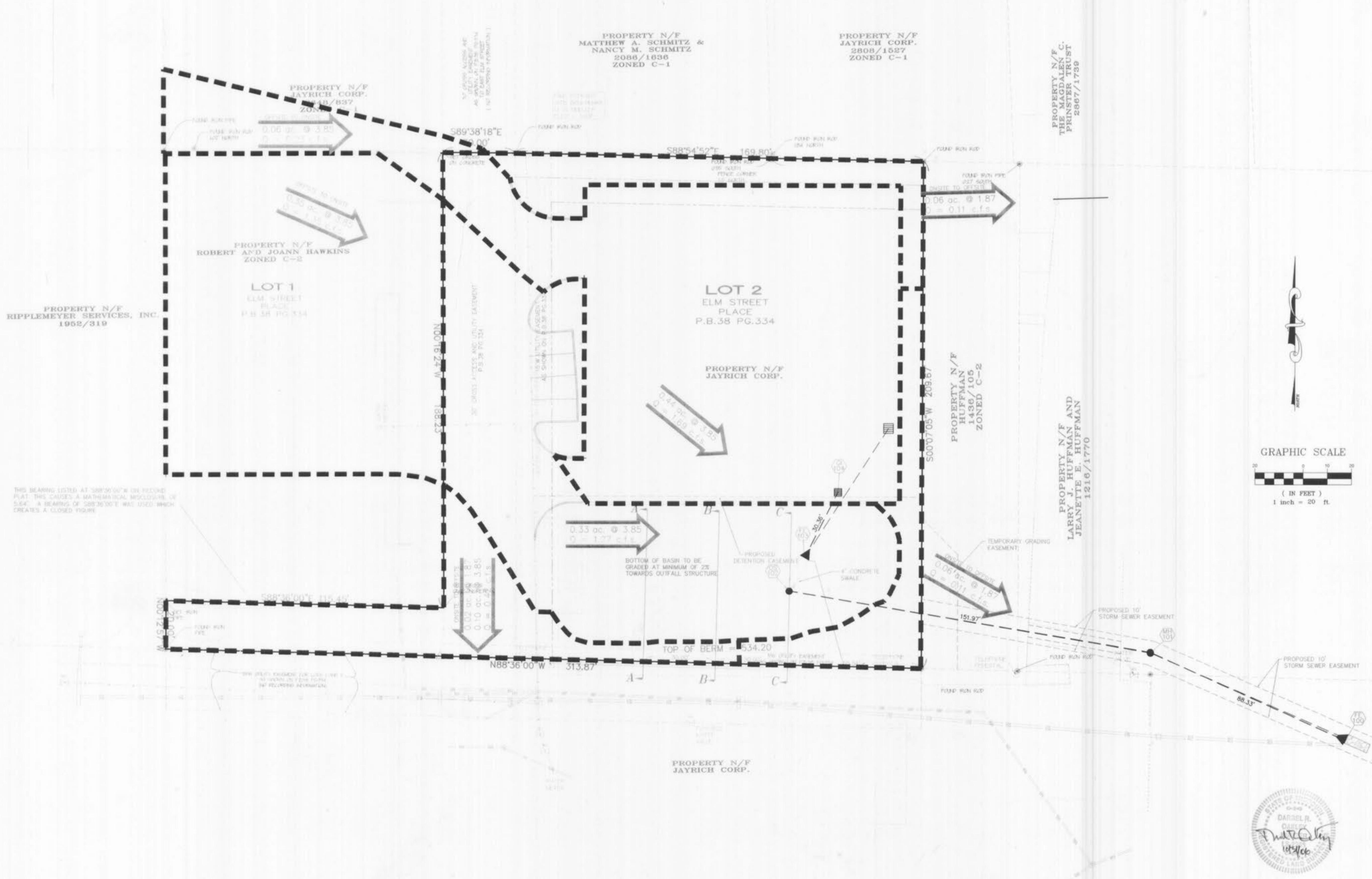
FLARED END SECTION



LINE MANHOLE
PIPE SEWERS 8"-24" DIA.

A circular Missouri state seal featuring the state motto "Missouri State Seal" around the perimeter. In the center, there is a signature of "Darrel R. Oakley" written across the seal, with "LS-2215" written below it.

12-05



THIS SHEET FOR DRAINAGE AREA PURPOSES ONLY,
NOT TO BE USED AS CONSTRUCTION PLANS!!!