

# CONSTRUCTION PLANS FOR BRIDGEWATER 11-C ADDITION

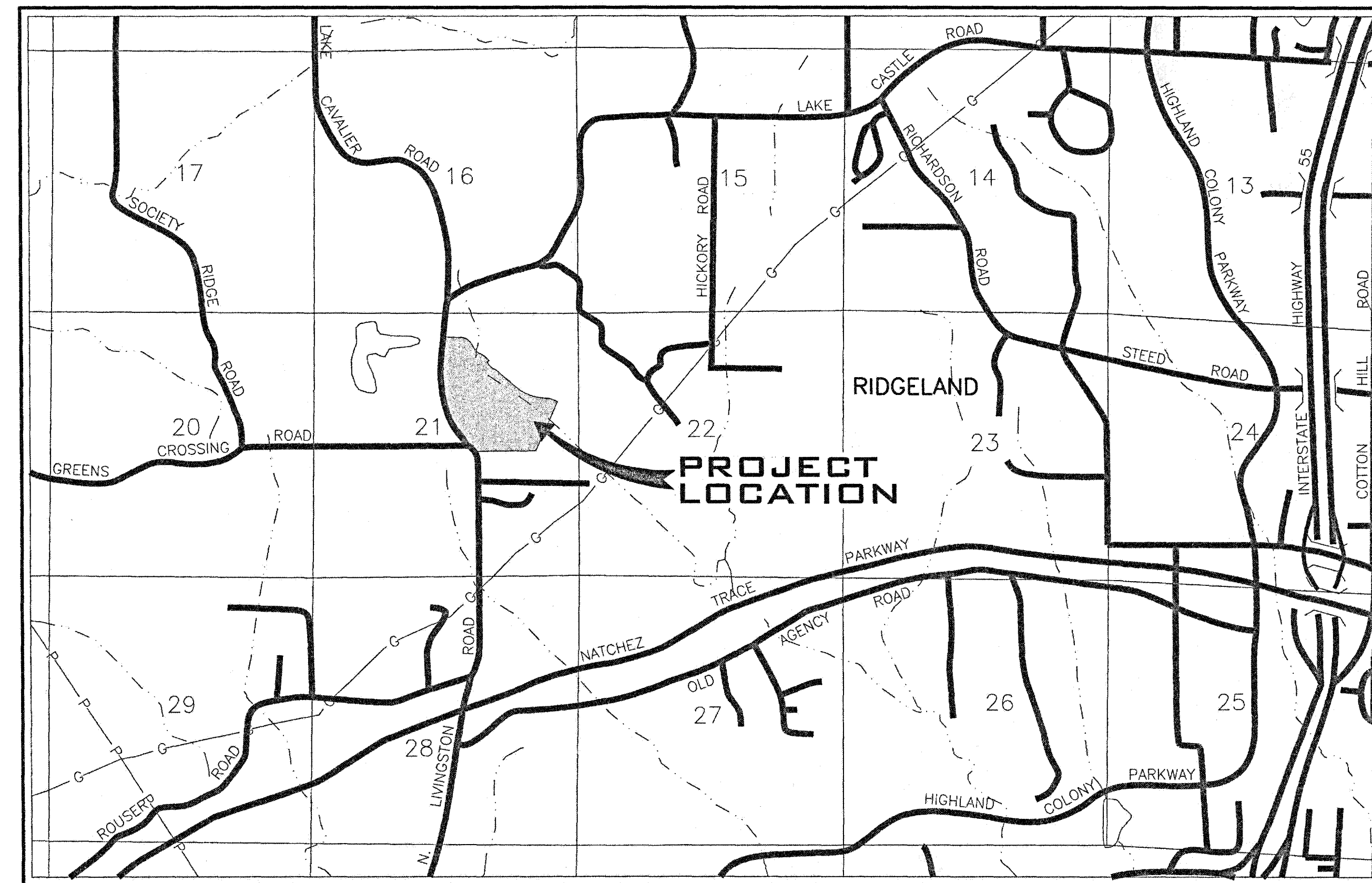
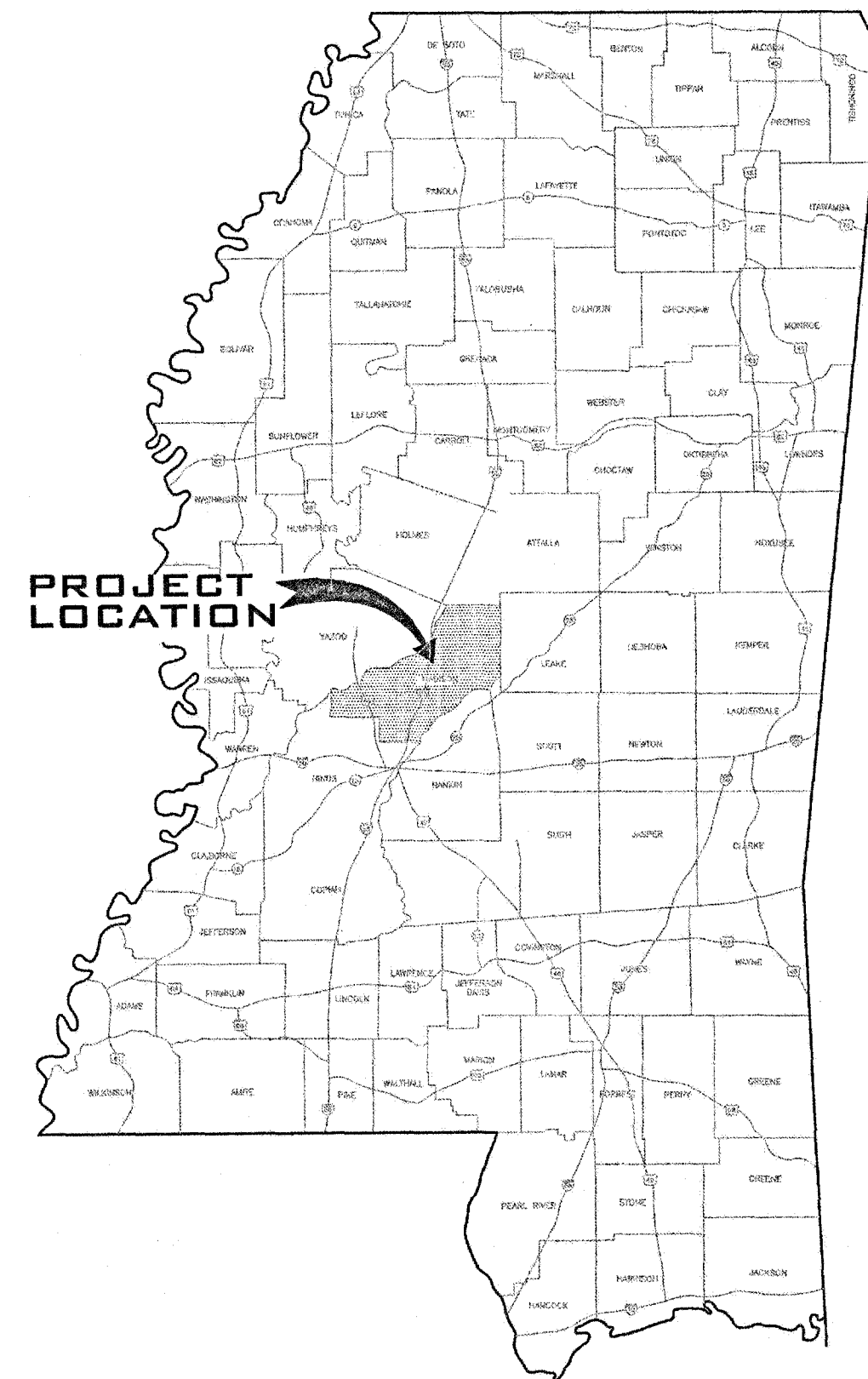
N 1/2 OF SECTION 21, T7N-R1E,  
MADISON COUNTY, MISSISSIPPI

A DEVELOPMENT  
OF  
BRIDGEWATER, LLC  
117 PARK CIRCLE DRIVE  
FLOWOOD, MS 39232  
PH. 601-932-1155

OFFICE COPY \_\_\_\_\_  
PLANS REVIEW \_\_\_\_\_  
CD Director \_\_\_\_\_  
FW Director \_\_\_\_\_  
City Planner \_\_\_\_\_  
Traffic Engineer \_\_\_\_\_  
Drainage Engineer \_\_\_\_\_  
Fire Official \_\_\_\_\_  
Police Official \_\_\_\_\_

The plans will not go forward to the  
Architectural Review Board or the Mayor  
and Board of Aldermen prior to the above  
review.

AS-BUILT

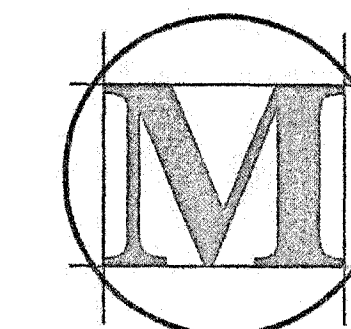


| DRAWING INDEX                      |           |
|------------------------------------|-----------|
| TITLE                              | SHEET NO. |
| COVER SHEET                        | 1         |
| GENERAL NOTES                      | 2         |
| GEOMETRIC LAYOUT                   | 3         |
| SPOT ELEVATIONS                    | 4         |
| WATER AND SEWER LAYOUT             | 5         |
| EROSION CONTROL                    | 6         |
| PROPOSED LAKE LAYOUT               | 7         |
| PLAN & PROFILE (HIDDEN OAKS TRAIL) | 8         |
| PLAN & PROFILE (HIDDEN OAKS TRAIL) | 9         |
| PLAN & PROFILE (HIDDEN OAKS COVE)  | 10        |
| PLAN & PROFILE (RED OAK COVE)      | 11        |
| PLAN & PROFILE (TWIN OAK COVE)     | 12        |
| PLAN & PROFILE (RED CEDAR COVE)    | 13        |
| PLAN & PROFILE (CYPRESS COVE)      | 14        |
| PLAN & PROFILE (HIDDEN OAKS DRIVE) | 15        |
| MISCELLANEOUS DETAILS              | 16        |
| SEWER DETAILS                      | 17        |
| WATER DETAILS                      | 18        |

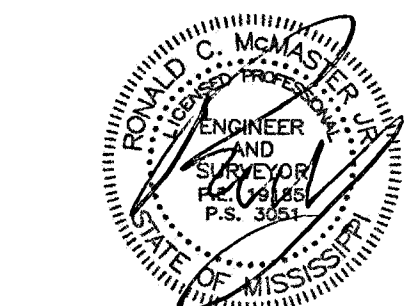
VICINITY MAP

PWP-00237

**CAUTION**  
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.



**M'MASTER & ASSOCIATES, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS



212 WATERFORD SQUARE  
SUITE 300  
MADISON, MS 39110  
601.605.1090

DEMOLITION NOTES

1. DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND FUNCTIONAL.
2. PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING PAVEMENT ALONG ALL LIMITS OF PAVEMENT DEMOLITION.
3. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. DISPOSE OF OFF THE OWNER'S PROPERTY IN A LEGAL MANNER.
4. ALL PAVEMENT, BASE COURSE, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., IN THE AREA TO BE REMOVED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE PROVIDED THAT THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE OF AREAS TO RECEIVE PLANTING.
5. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK.
6. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
7. ALL ITEMS OF CONSTRUCTION REMAINING AND NOT SPECIFICALLY MENTIONED THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
8. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED TO MATCH AT NO ADDITIONAL COST TO THE OWNER.
9. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL AND COMPACTED 98% OF MAXIMUM DENSITY PER ASTM D698 OR PER GEOTECHNICAL RECOMMENDATIONS IN THE DOCUMENTS.
10. CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH LOCAL UTILITY COMPANIES PRIOR TO UTILITY DISCONNECT.
11. NOTIFY LOCAL UTILITY LOCATOR SERVICE OF INTENDED DEMOLITION OPERATIONS. SEE GENERAL UTILITY NOTE #4.
12. EXISTING INFORMATION/TOPOGRAPHIC SURVEY WAS PREPARED BY McMASTER & ASSOCIATES, INC.
13. PAVEMENT MARKINGS TO BE REMOVED SHALL BE PAINTED OVER TO MATCH PAVEMENT OR REMOVED WITH WIRE BRUSHINGS.
14. EXCEPT AS SHOWN, NO TREES SHALL BE REMOVED AND/OR VEGETATION DISTURBED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
15. TREE PROTECTION SHALL CONSIST OF THE FOLLOWING STEPS:
  - a. CONTRACTOR SHALL HIRE A LICENSED LANDSCAPE CONTRACTOR TO OVERSEE TREE PROTECTION.
  - b. PRIOR TO ANY GRADING OPERATIONS, LOCATE TREES TO BE PROTECTED AND NEATLY CUT ROOTS TO A DEPTH OF 30" AT THE DIMENSIONED LIMITS SHOWN USING A UTILITY TRENCHING MACHINE.
  - c. TREAT EXPOSED ROOTS WITH A HORTICULTURAL TREE PRUNING PROTECTION PRODUCT.
  - d. PRUNE TREE LIMBS BY THE SAME PROPORTIONAL PERCENTAGE AS TREE ROOTS REMOVED (I.E., 25% OF ROOTS REMOVED SHALL RESULT IN 25% OF TREE LIMBS REMOVED).
  - e. INSTALL A CONSTRUCTION FENCE TO THE LIMITS SHOWN AT LEAST 4' IN HEIGHT.
  - f. BEGIN CLEARING AND GRADING OPERATIONS.

GENERAL UTILITY NOTES

1. WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS.
3. ALL EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND ARE BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS FROM THE FACILITY. ADDITIONAL UTILITIES MAY BE PRESENT. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS.
4. THE CONTRACTOR SHALL NOTIFY THE MISSISSIPPI ONE-CALL SYSTEM, INC. (MOCs) AT 811 AND ANY NON-MOCs MEMBER UTILITY INDIVIDUALLY. AT LEAST 3 WORKING DAYS PRIOR TO ANY EXCAVATION AND/OR DEMOLITION.
5. MAINTAIN 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN SANITARY SEWER AND WATER SUPPLY LINES.
6. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF ALL EXISTING UTILITIES INCLUDING IRRIGATION. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. RELOCATE IRRIGATION LINES AS NECESSARY FOR CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO FINAL PAVEMENT CONSTRUCTION.
8. BACKFILL UTILITY TRENCHES UNDER PAVEMENT AREAS AND IN LAWN AREAS WITH SATISFACTORY FILL MATERIAL COMPACTED TO AT LEAST 98% OF MAXIMUM PER ASTM D698.
9. ADJUST ALL EXISTING CASTINGS TO MATCH PROPOSED FINISH GRADE.
10. EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF THE OWNER'S PROPERTY AT NO ADDITIONAL COST IN A LEGAL MANNER.
11. ALL SANITARY SEWER PIPE SHALL BE CLASS SDR 26 PVC UNLESS NOTED OTHERWISE.
12. FIRE HYDRANT AND WATER MAINS TO BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
13. NEOPRENE COUPLINGS WITH STAINLESS STEEL BAND AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
14. THE CONTRACTOR SHALL EXCAVATE FOR NEW SEWER ELEVATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL TAKE EVERY NECESSARY PRECAUTION TO PROTECT EXISTING SEWER DURING CONSTRUCTION OPERATIONS. ALL EXCAVATION, SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL EXPLORE AHEAD 200 FEET SO ADJUSTMENTS CAN BE MADE IN THE ALIGNMENT OF THE PIPE IN CASE OF CONFLICTS WITH EXISTING STRUCTURES, UTILITIES AND PIPING.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING. IF PIPE FLOATS DURING CONSTRUCTION, THE CONTRACTOR SHALL RELAY PIPE TO GRADE AT HIS EXPENSE.
17. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND INVERT OF SANITARY SEWER FOR CONNECTION TO EXISTING OR PROPOSED SEWER SYSTEM.
18. BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED IN WET OR WEAK AREAS. THE CONTRACTOR SHALL HAVE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
19. ALL FORCE MAIN SHALL BE INSTALLED WITH #12 LOCATE WIRE (SOLID COPPER).
20. ALL WATER MAIN SHALL BE C-900 P.V.C. AND INSTALLED WITH #12 LOCATE WIRE (SOLID COPPER). TRACER WIRE TERMINALS SHALL BE PROVIDED AT EACH FIRE HYDRANT AND WATER VALVE.
21. ALL WATER SERVICE LINE SHALL BE CL. 200 SERVICE TUBING & INSTALLED WITH #12 LOCATE WIRE (SOLID COPPER). TRACER WIRE TERMINALS SHALL BE PROVIDED AT EACH WATER METER.

GRADING, DRAINAGE AND EROSION CONTROL NOTES

1. NO TREES SHALL BE REMOVED NOR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE ARCHITECT/ENGINEER.
2. IT IS THE OWNER'S INTENT TO PRESERVE ALL THE EXISTING SITE VEGETATION OUTSIDE THE LIMITS OF GRADING.
3. ALL TREES, INCLUDING YOUNG SAPLINGS, PINES, AND UNDERSTORY SPECIES ARE TO BE PROTECTED AND SAVED IF THEY FALL OUTSIDE THE LIMITS OF GRADING, EVEN IF THEY ARE NOT LOCATED OR IDENTIFIED ON THE SURVEY.
4. SELECTIVE CLEARING BEYOND THE LIMITS OF GRADING SHALL CONSIST OF REMOVAL OF HONEYSUCKLE, HERBACEOUS SHRUBS, POISON IVY, AND NOXIOUS WEEDS. GRASS SHALL BE SOWN ON THE WHOLE SITE AFTER PREPARATION, AS NOTED IN THE SPECIFICATIONS.
5. TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER-GRADED AREAS TO A MINIMUM DEPTH OF 6 INCHES. STOCKPILES SHALL BE FREE DRAINING AND PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES. IMPORTED TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES IS REQUIRED IN ALL AREAS BETWEEN BUILDING AND SIDEWALKS.
6. ALL GRADED AREAS SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER GRADING IS COMPLETED.
7. CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWING PRIOR TO BEGINNING GRADING OPERATIONS.
8. ALL DRAINAGE STRUCTURES, PIPES WITHIN THE LIMITS OF CONSTRUCTION, AND DETENTION PONDS SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.
9. SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
10. ALL LOCATIONS OF TEMPORARY EROSION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ARCHITECT/ENGINEER.
11. WHEN THE TEMPORARY EROSION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE (IN THE ARCHITECT/ENGINEER'S OPINION), THEY SHALL BE REMOVED.
12. REPLACE DAMAGED AND WORN OUT SILT BARRIERS AS DIRECTED BY THE ARCHITECT/ENGINEER.
13. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE/STORE MATERIALS, WITHIN THE DRIP LINES OF TREES.
14. TOP OF GRATE ELEVATIONS FOR CURB INLETS ARE GIVEN TO THE CENTER OF THE INLETS AT THE FACE OF CURB. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADE. ADJUST THE CASTING TO FALL ALONG THE CURB LINE.
15. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, PROTECT UTILITIES TO REMAIN, AND REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT CONTRACTOR'S EXPENSE.
16. NOTIFY LOCAL UTILITY LOCATOR SERVICE OF INTENDED EXCAVATION/UTILITY TRENCHING OPERATIONS.
17. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
18. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS.
19. SPOT ELEVATIONS AND CONTOURS REPRESENT PROPOSED FINISHED GRADE AND TOP OF DIRT ELEVATIONS UNLESS OTHERWISE NOTED.
20. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO BEGINNING WORK.
21. EXCESS MATERIAL SHALL BE DISPOSED OFF BY THE CONTRACTOR OFF OF THE OWNER'S PROPERTY AT NO ADDITIONAL COST IN A LEGAL MANNER.
22. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THIS INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES, THE ARCHITECT/ENGINEER SHALL BE CONTACTED PRIOR TO BEGINNING WORK.
23. EXISTING MANHOLE CASTINGS TO REMAIN SHALL BE RESET TO MATCH NEW GRADE.
24. ALL CURBS AND SIDEWALKS SHALL BE BACKFILLED WITH TOPSOIL, AND SEEDED AND MULCHED, UNLESS OTHERWISE NOTED.
25. ALL PIPES SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL COMPACTED TO 98% OF MAXIMUM PER ASTM D698.
26. ALL STORM DRAINAGE PIPE SHALL BE R.C.P UNLESS OTHERWISE NOTED, AND COMPLETELY WRAPPED WITH TYPE V FILTER FABRIC AT ALL JOINTS. FILTER FABRIC SHALL BE 18" WIDE AND OVERLAP 8". LIFT HOLES SHALL BE GROUTED AND SEALED WATER TIGHT AND COVERED WITH FILTER FABRIC. PIPE LENGTHS SHOWN ARE APPROXIMATE.
27. ALL CUT AND FILL SLOPES TO BE 3:1 MAXIMUM, UNLESS OTHERWISE NOTED.
28. ALL HEADWALLS SHALL HAVE A MINIMUM 10'x20'x1.5' RIP-RAP APRON INSTALLED USING 8" MIN. DIAMETER STONE, UNLESS OTHERWISE SPECIFIED.
29. SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, AND OTHER OBJECTS OVER 1 INCH IN DIAMETER, OR CONTAMINANTS.
30. AFTER STRIPPING TOPSOIL, PROOFROLL SUBGRADE WITH A LOADED DUMP TRUCK WITH A MINIMUM WEIGHT OF 20 TONS.
31. FINISH GRADES TOLERANCES ARE 0.10 FOOT ABOVE OR BELOW DESIGN ELEVATIONS
32. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
33. PROVIDE TEMPORARY SEEDING ON STOCKPILES AND ALL OTHER AREAS OF THE SITE THAT WILL REMAIN UNDISTURBED FOR 30 DAYS OR MORE.
34. PLACEMENT OF EARTHWORK FILL SHALL BE IN MAX. 8" COMPACTED LIFTS WITH DENSITY OF 98% OF MAXIMUM PER ASTM D698.

LAYOUT & PAVING NOTES

1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, AND REPAIR CONTRACTOR CAUSED DAMAGE ACCORDING TO CURRENT LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
3. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING WORK.
4. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVEMENT.
5. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN, IN ACCORDANCE WITH THE SPECIFICATIONS DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE, NOR STORE MATERIALS WITHIN THE DRIP-LINES OF TREES OR OUTSIDE THE LIMIT OF GRADING.
6. CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH. ALL CONCRETE SHALL BE 4,000 P.S.I. UNLESS OTHERWISE NOTED. CURB RAMPS, SIDEWALK SLOPES, AND DRIVEWAY RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT LOCAL REQUIREMENTS. IF APPLICABLE, THE CONTRACTOR SHALL REQUEST INSPECTION OF SIDEWALK AND RAMP FORMS PRIOR TO PLACEMENT OF CONCRETE.
7. ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN WHICH RESULTS FROM NEW CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
8. DIMENSIONS ARE TO THE EDGE OF PAVEMENT, EDGE OF CONCRETE, OR TO THE FACE OF BUILDING, UNLESS OTHERWISE NOTED.
9. COORDINATES ARE FOR FACE OF BUILDINGS, CENTER LINES OF DRIVEWAYS, CENTER OF SANITARY SEWER MANHOLES, AND CENTER AT FACE OF CURB INLETS, UNLESS OTHERWISE NOTED.
10. EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE OWNER/ENGINEER.

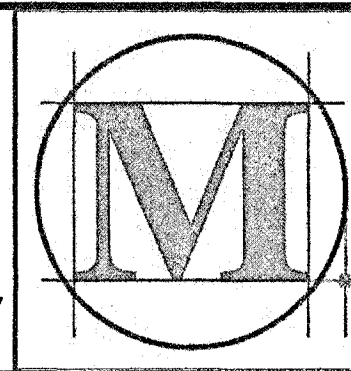
STORMWATER POLLUTION PREVENTION NOTES

1. REFER TO EROSION CONTROL PLAN FOR ADDITIONAL REQUIREMENTS.
2. THE OWNER AND THE CONTRACTOR ARE REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) TO DISCHARGE CONSTRUCTION ACTIVITY STORMWATER APPLICATION TO THE LOCAL MISSISSIPPI ENVIRONMENTAL ASSISTANCE CENTER AT LEAST 30 DAYS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR AND OWNER SHALL PROVIDE (WITH THE (NOI) FOR THIS PROJECT) EXISTING NPDES PERMIT TRACKING NUMBERS FOR SITES WHERE BORROW MATERIAL MAY BE OBTAINED AND WHERE SPOIL MATERIAL MAY BE PLACED SHOULD PERMITS NOT EXIST FOR BORROW AND SPOIL SITES. SEPARATE (NOI)'S SHALL BE PROVIDED BY THE OWNER AND CONTRACTOR.
3. THE NOTICE OF COVERAGE (NOC) OF THE PERMIT TO DISCHARGE CONSTRUCTION-ACTIVITY STORMWATER SHALL BE POSTED NEAR THE CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL HAVE A SET OF APPROVED EROSION CONTROL PLANS ON SITE DURING ALL CONSTRUCTION.
4. THE CONSTRUCTION ACTIVITY ANTICIPATED ON THIS PROJECT INCLUDES CLEARING, GRUBBING, GRADING, TOPSOILING, AND SEEDING.
5. THE APPROXIMATE TOTAL AREA OF THE SITE IS 73.98 ACRES. THE APPROXIMATE TOTAL AREA OF GRADING PROPOSED IS 64.50 ACRES.
6. THE ANTICIPATED FILL MATERIAL WILL CONSIST OF ON-SITE SOIL AND/OR OFF-SITE SOIL BORROW MATERIALS.
7. THE RECEIVING WATER/STORM SEWER OPERATOR IS THE CITY OF RIDGELAND, AND THE STATE OF MISSISSIPPI.
8. CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE EXPOSURE TIME OF CLEARED SURFACE AREA. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL PRIOR TO EARTH MOVING OPERATIONS. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, AND AT MAXIMUM 7 CALENDAR DAYS IN DRY PERIODS AND WITHIN 24 HOURS OF ANY RAINFALL EXCEEDING 0.5 INCH PER 24 HOUR PERIOD.
9. THE CONTRACTOR SHALL DESIGNATE IN WRITING THE NAME AND PHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS.
10. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE REMOVED MORE THAN 20 CALENDAR DAYS PRIOR TO GRADING. ALL GRADED AREAS EXPECTED TO REMAIN UNFINISHED AND UNWORKED FOR MORE THAN 30 CALENDAR DAYS SHALL BE COVERED WITH TEMPORARY GRASS, SOD, STRAW, MULCH OR FABRIC MATS. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED WITHIN 7 CALENDAR DAYS OF FINAL GRADING.
11. THE CONTRACTOR SHALL MAINTAIN RECORDS OF EROSION CONTROL INSPECTIONS AND REPAIRS FOR A MINIMUM OF 3 YEARS AFTER COMPLETION OF CONSTRUCTION.
12. TEMPORARY SEEDING FOR MISSISSIPPI PROJECTS INCLUDE THE FOLLOWING:
  - JAN 1 - MAY 1 ITALIAN RYE/KOREAN LESPEDEZA/SUMMER OATS
  - MAY 1 - JULY 15 SUDAN OT STARR MILLET
  - JULY 15 - JAN 1 BALBOA RYE/ITALIAN RYE
13. MULCHING SHALL CONSIST OF LOOSE HAY OR STRAW APPLIED AT THE RATE OF 2 TONS/ACRE.
14. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM TRAPS, SILT FENCES, SEDIMENT PONDS, ETC. AS NECESSARY AND WHEN CAPACITY HAS BEEN REDUCED BY 50%.
15. STOCKPILES SHALL BE STABILIZED AND PROTECTED FROM EROSION.
16. UPON COMPLETION OF SITE STABILIZATION, THE OWNER AND CONTRACTOR SHALL PROVIDE A NOTICE OF TERMINATION (NOT) FOR THE PROJECT TO THE MS DEPARTMENT OF ENVIRONMENTAL QUALITY. A COPY OF THE (NOT) SHALL BE PROVIDED TO THE ENGINEER.

| Revisions |          |                      |     | Project No. | Designed By |
|-----------|----------|----------------------|-----|-------------|-------------|
| #         | Date     | Nature               | By  | App'd.      |             |
| 1         | 11-19-14 | RESPONSE TO COMMENTS | RCM | RCM         | M-2227      |
| 2         | 3-16-15  | RESPONSE TO COMMENTS | RCM | RCM         |             |
|           |          |                      |     |             | 3/2/15      |
|           |          |                      |     |             | SEE ABOVE   |

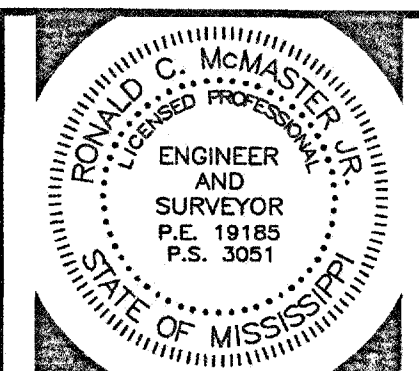
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| Drawn By   | D.P.   |
| Checked By | R.C.M. |

BRIDGEWATER 11 ADDITION

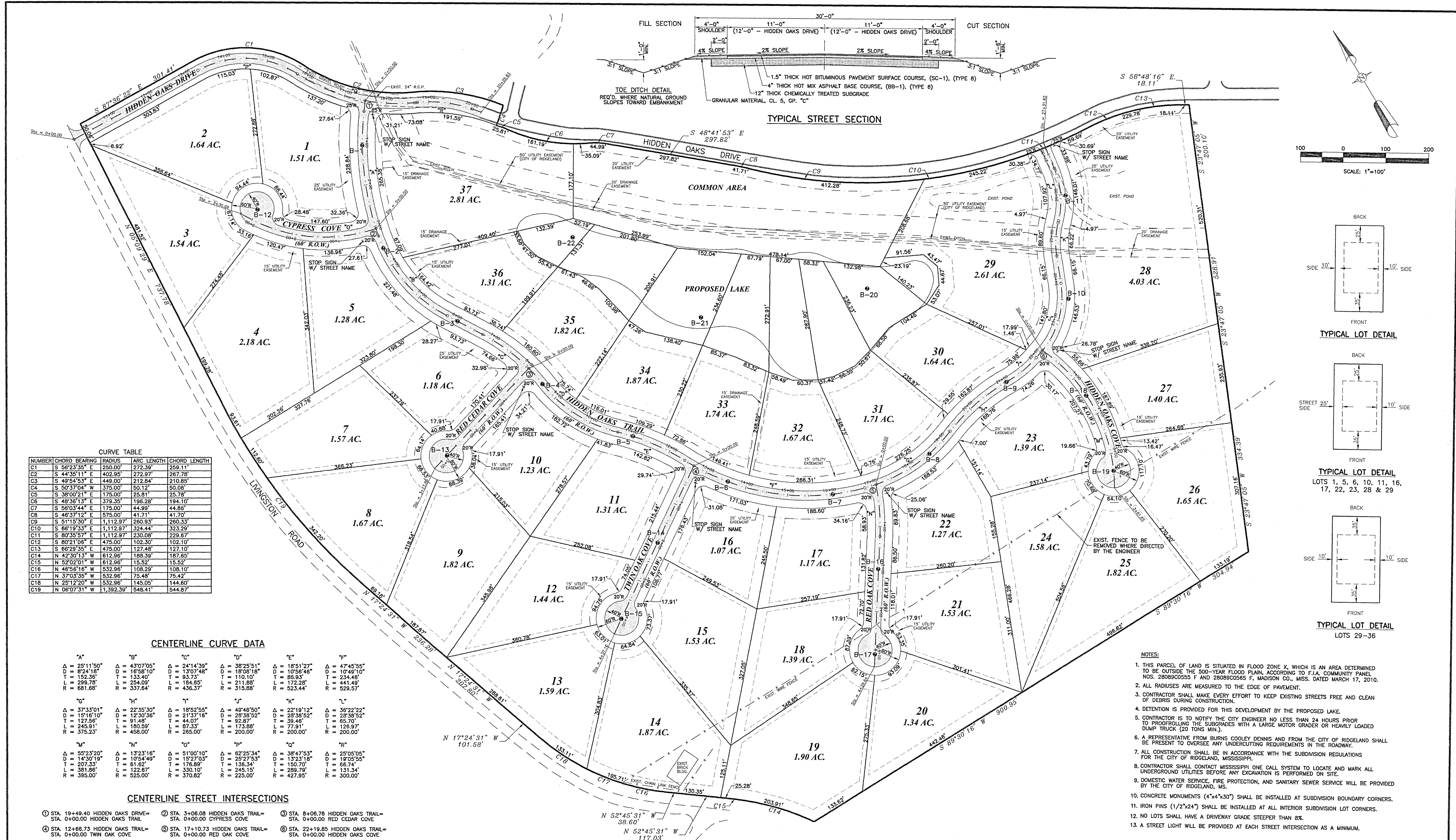


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GENERAL NOTES  
**2**



**CURVE TABLE**

| NUMBER | CHORD BEARING | RADIUS    | ARC LENGTH | CHORD LENGTH |
|--------|---------------|-----------|------------|--------------|
| C1     | S 56°23'35" E | 250.00'   | 272.39'    | 259.11'      |
| C2     | S 44°35'11" E | 402.95'   | 272.97'    | 267.78'      |
| C3     | S 49°54'53" E | 449.00'   | 212.84'    | 210.85'      |
| C4     | S 50°37'04" W | 375.00'   | 50.12'     | 50.08'       |
| C5     | S 38°00'21" E | 175.00'   | 25.81'     | 25.78'       |
| C6     | S 48°35'13" E | 379.35'   | 198.28'    | 194.10'      |
| C7     | S 56°03'44" E | 175.00'   | 44.98'     | 44.86'       |
| C8     | S 46°37'12" E | 575.00'   | 41.71'     | 41.70'       |
| C9     | S 51°15'30" E | 1,112.97' | 260.93'    | 260.33'      |
| C10    | S 68°19'33" E | 1,112.97' | 324.44'    | 323.29'      |
| C11    | S 80°35'57" E | 1,112.97' | 230.08'    | 229.87'      |
| C12    | S 80°21'08" E | 475.00'   | 102.30'    | 102.10'      |
| C13    | S 66°29'35" E | 475.00'   | 127.48'    | 127.10'      |
| C14    | N 42°30'13" W | 612.96'   | 188.39'    | 187.65'      |
| C15    | N 52°02'01" W | 612.96'   | 15.52'     | 15.52'       |
| C16    | N 46°56'16" W | 532.96'   | 108.29'    | 108.10'      |
| C17    | N 37°03'35" W | 532.96'   | 75.48'     | 75.42'       |
| C18    | N 25°12'20" W | 532.96'   | 145.05'    | 144.60'      |
| C19    | N 06°07'31" W | 1,392.39' | 548.41'    | 544.87'      |

**CENTERLINE CURVE DATA**

| "A"           | "B"            | "C"           | "D"           | "E"            | "F"            |
|---------------|----------------|---------------|---------------|----------------|----------------|
| Δ = 25°11'50" | Δ = 43°07'05"  | Δ = 24°14'39" | Δ = 38°25'51" | Δ = 18°51'27"  | Δ = 47°45'55"  |
| D = 87°24'18" | D = 165°08'10" | D = 130°7'48" | D = 18°08'18" | D = 107°49'18" | D = 107°49'18" |
| T = 152.36'   | T = 133.40'    | T = 93.73'    | T = 110.10'   | T = 86.93'     | T = 234.48'    |
| L = 299.78'   | L = 254.09'    | L = 184.65'   | L = 211.88'   | L = 172.28'    | L = 441.49'    |
| R = 681.68'   | R = 337.64'    | R = 436.37'   | R = 315.88'   | R = 523.44'    | R = 529.57'    |

**CENTERLINE STREET INTERSECTIONS**

|  |  |  |
|--|--|--|
| ① STA. 19+49.40 HIDDEN OAKS DRIVE= STA. 0+00.00 HIDDEN OAKS TRAIL= | ② STA. 3+06.08 HIDDEN OAKS TRAIL= STA. 0+00.00 CYPRESS COVE  | ③ STA. 8+06.78 HIDDEN OAKS TRAIL= STA. 0+00.00 RED CEDAR COVE    |
| ④ STA. 12+66.73 HIDDEN OAKS TRAIL= STA. 0+00.00 TWIN OAK COVE      | ⑤ STA. 17+10.73 HIDDEN OAKS TRAIL= STA. 0+00.00 RED OAK COVE | ⑥ STA. 22+19.85 HIDDEN OAKS TRAIL= STA. 0+00.00 HIDDEN OAKS COVE |

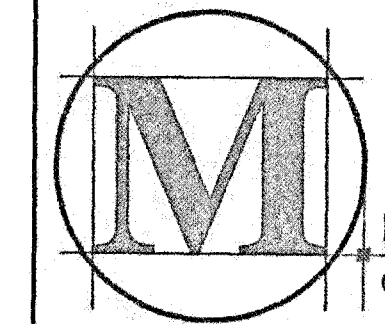
**Revisions**

| # | Date     | Nature               | By  | App'd |
|---|----------|----------------------|-----|-------|
| 1 | 11-16-14 | RESPONSE TO COMMENTS | RCM | RCM   |
| 2 | 3-16-15  | RESPONSE TO COMMENTS | RCM | RCM   |

**Project Info**

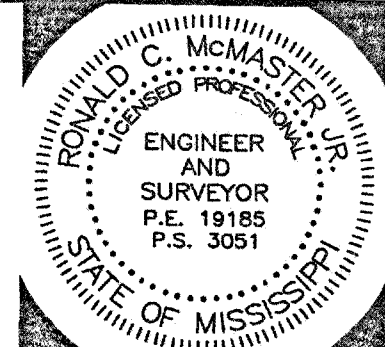
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|-------------|-----------|-------------|--------|
| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

**BRIDGEWATER 11 ADDITION**



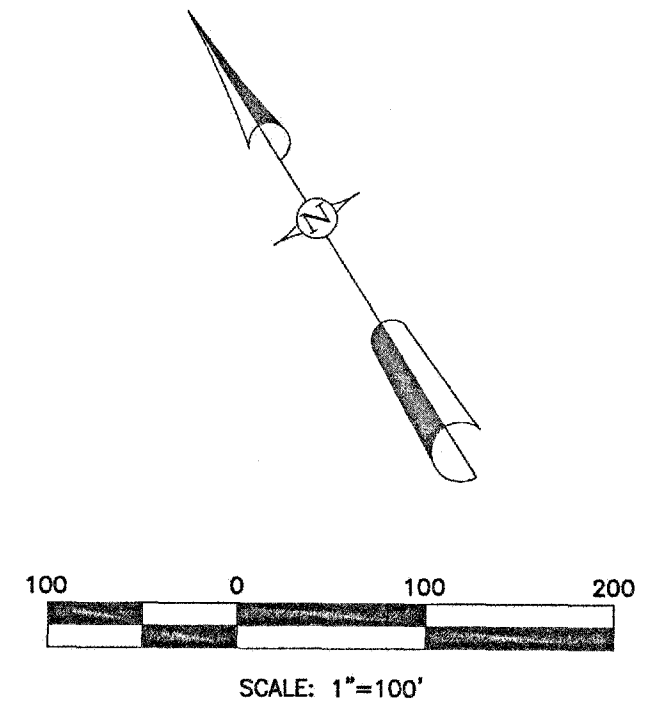
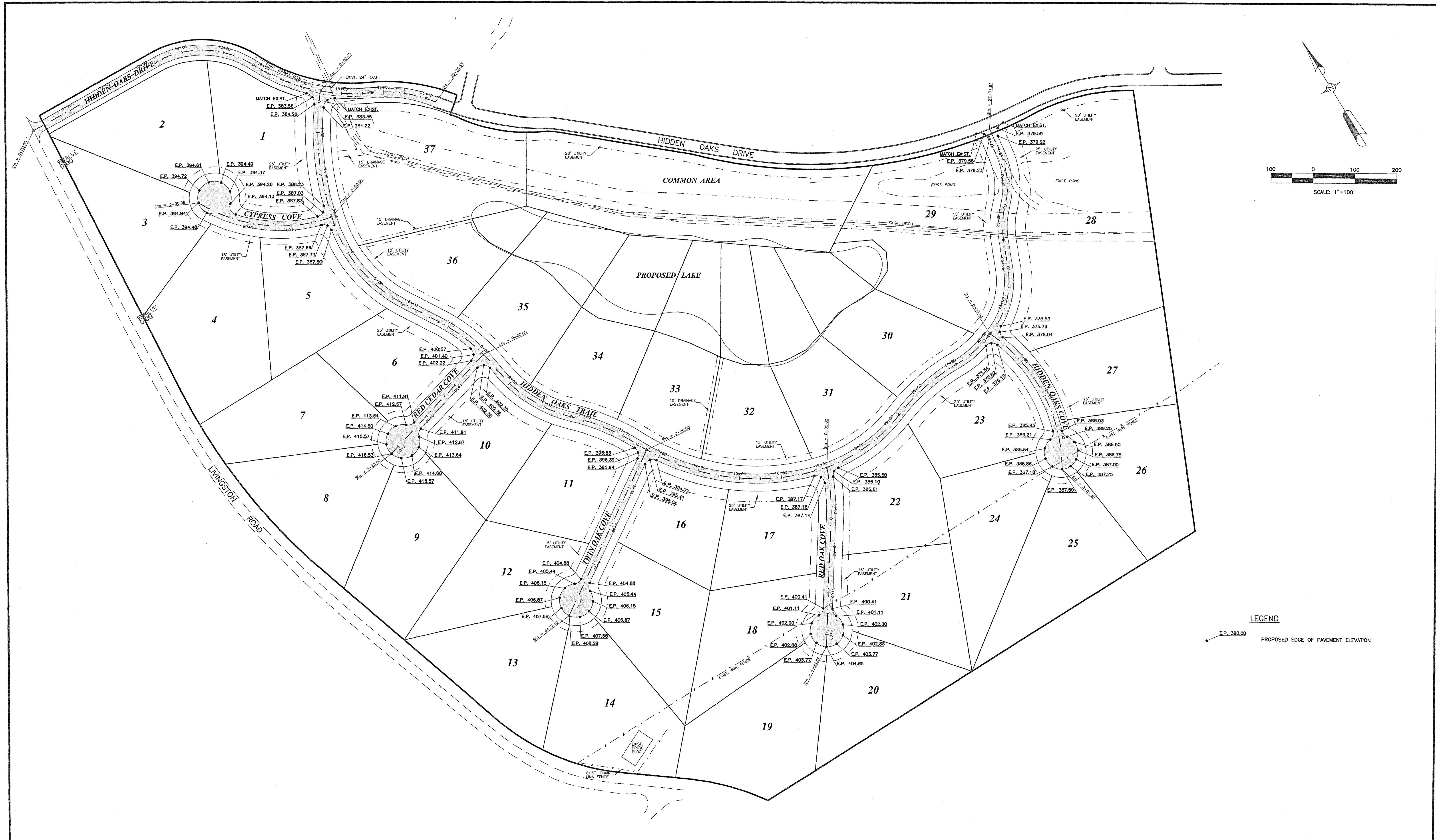
**M-MASTER & ASSOCIATES, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS

212 WATERFORD SQUARE  
SUITE 300  
MADISON, MS 39110  
601.605.1090



**GEOMETRIC LAYOUT**  
**3**

- NOTES:**
- THIS PARCEL OF LAND IS SITUATED IN FLOOD ZONE X, WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN, ACCORDING TO F.I.A. COMMUNITY PANEL NOS. 28089C0555 F AND 28089C0565 F, MADISON CO., MISS. DATED MARCH 17, 2010.
  - ALL RADIIUSES ARE MEASURED TO THE EDGE OF PAVEMENT.
  - CONTRACTOR SHALL MAKE EVERY EFFORT TO KEEP EXISTING STREETS FREE AND CLEAN OF DEBRIS DURING CONSTRUCTION.
  - DETENTION IS PROVIDED FOR THIS DEVELOPMENT BY THE PROPOSED LAKE.
  - CONTRACTOR IS TO NOTIFY THE CITY ENGINEER NO LESS THAN 24 HOURS PRIOR TO PROFFROLLING THE SUBGRADES WITH A LARGE MOTOR GRADER OR HEAVILY LOADED DUMP TRUCK (20 TONS MIN.).
  - A REPRESENTATIVE FROM BURNS COOLEY DENNIS AND FROM THE CITY OF RIDGELAND SHALL BE PRESENT TO OVERSEE ANY UNDERCUTTING REQUIREMENTS IN THE ROADWAY.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SUBDIVISION REGULATIONS FOR THE CITY OF RIDGELAND, MISSISSIPPI.
  - CONTRACTOR SHALL CONTACT MISSISSIPPI ONE CALL SYSTEM TO LOCATE AND MARK ALL UNDERGROUND UTILITIES BEFORE ANY EXCAVATION IS PERFORMED ON SITE.
  - DOMESTIC WATER SERVICE, FIRE PROTECTION, AND SANITARY SEWER SERVICE WILL BE PROVIDED BY THE CITY OF RIDGELAND, MS.
  - CONCRETE MONUMENTS (4"x4"x30") SHALL BE INSTALLED AT SUBDIVISION BOUNDARY CORNERS.
  - IRON PINS (1/2"x24") SHALL BE INSTALLED AT ALL INTERIOR SUBDIVISION LOT CORNERS.
  - NO LOTS SHALL HAVE A DRIVEWAY GRADE STEEPER THAN 8%.
  - A STREET LIGHT WILL BE PROVIDED AT EACH STREET INTERSECTION AS A MINIMUM.

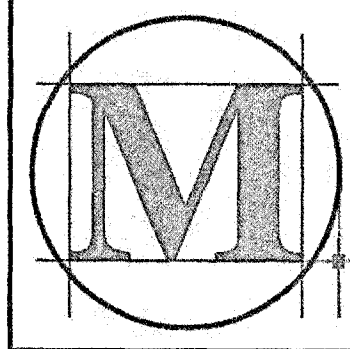


**LEGEND**  
 E.P. 390.00 PROPOSED EDGE OF PAVEMENT ELEVATION

| Revisions |          |                      |     |        |
|-----------|----------|----------------------|-----|--------|
| #         | Date     | Nature               | By  | App'd. |
| 1         | 11-18-14 | RESPONSE TO COMMENTS | RCM | RCM    |
| 2         | 3-16-15  | RESPONSE TO COMMENTS | RCM | RCM    |
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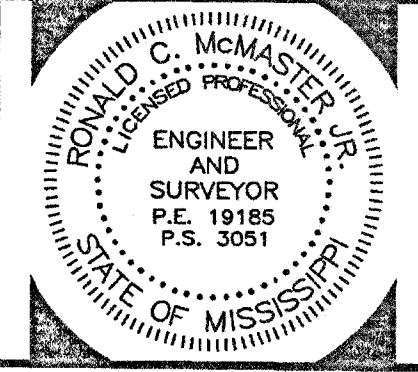
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

# BRIDGEWATER 11 ADDITION

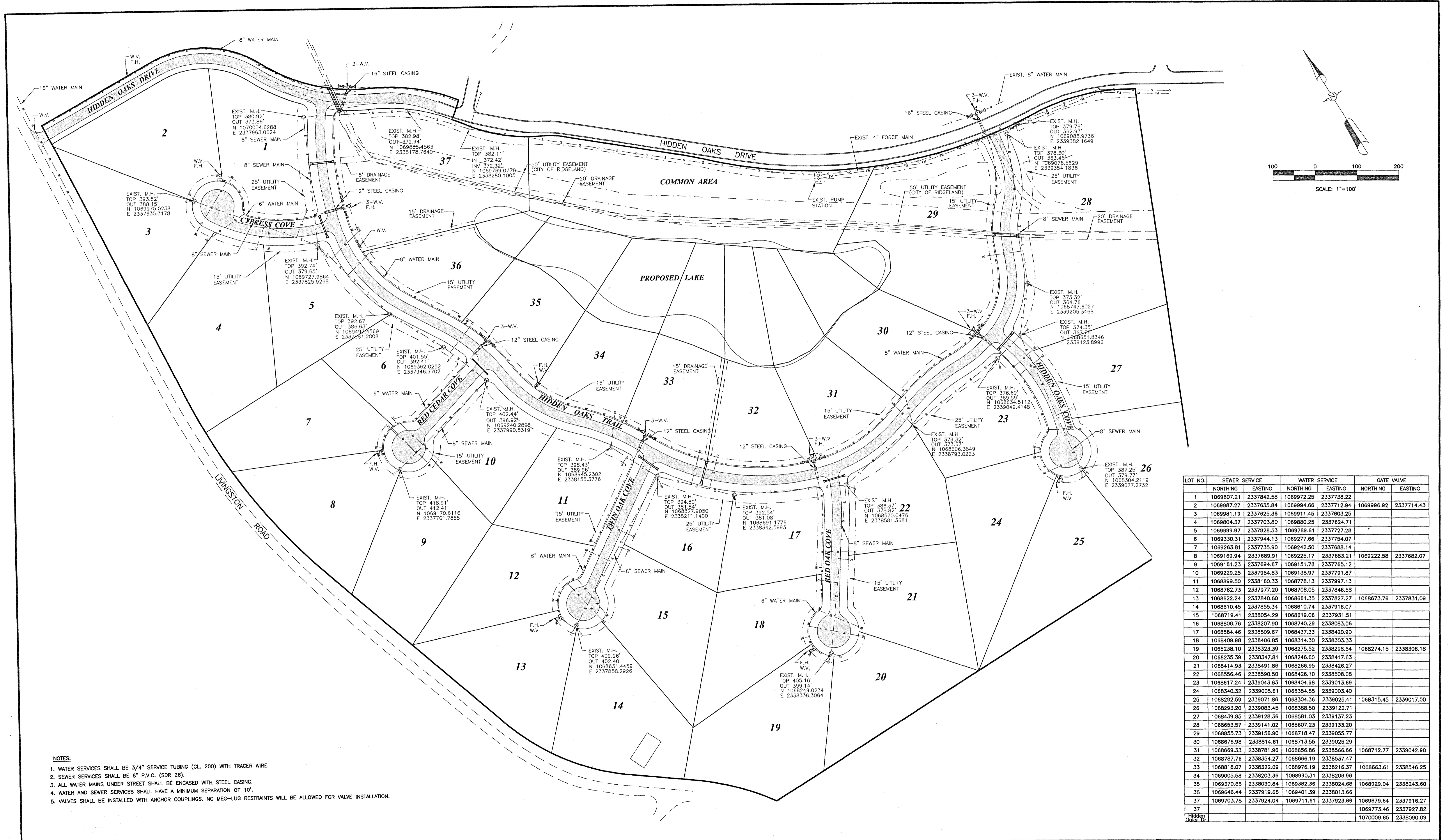


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SPOT ELEVATIONS  
**4**



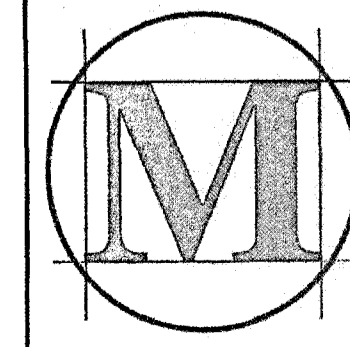
- NOTES:**
1. WATER SERVICES SHALL BE 3/4" SERVICE TUBING (CL. 200) WITH TRACER WIRE.
  2. SEWER SERVICES SHALL BE 6" P.V.C. (SDR 26).
  3. ALL WATER MAINS UNDER STREET SHALL BE ENCASED WITH STEEL CASING.
  4. WATER AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10'.
  5. VALVES SHALL BE INSTALLED WITH ANCHOR COUPLINGS. NO MEG-LUG RESTRAINTS WILL BE ALLOWED FOR VALVE INSTALLATION.

| LOT NO.         | SEWER SERVICE |            | WATER SERVICE |            | GATE VALVE |            |
|-----------------|---------------|------------|---------------|------------|------------|------------|
|                 | NORTHING      | EASTING    | NORTHING      | EASTING    | NORTHING   | EASTING    |
| 1               | 1069807.21    | 2337842.58 | 1069972.25    | 2337738.22 |            |            |
| 2               | 1069987.27    | 2337635.84 | 1069994.66    | 2337712.94 | 1069996.82 | 2337714.43 |
| 3               | 1069981.19    | 2337825.36 | 1069911.45    | 2337603.25 |            |            |
| 4               | 1069804.37    | 2337703.80 | 1069880.25    | 2337624.71 |            |            |
| 5               | 1069899.97    | 2337828.53 | 1069789.61    | 2337727.28 |            |            |
| 6               | 1069330.31    | 2337944.13 | 1068277.66    | 2337754.07 |            |            |
| 7               | 1069263.81    | 2337735.90 | 1069242.50    | 2337688.14 |            |            |
| 8               | 1069169.94    | 2337689.91 | 1069225.17    | 2337683.21 | 1069222.58 | 2337682.07 |
| 9               | 1069161.23    | 2337694.67 | 1069151.78    | 2337765.12 |            |            |
| 10              | 1069229.25    | 2337984.83 | 1069138.97    | 2337791.87 |            |            |
| 11              | 1068899.50    | 2338160.33 | 1068778.13    | 2337997.13 |            |            |
| 12              | 1068762.73    | 2337977.20 | 1068708.05    | 2337846.58 |            |            |
| 13              | 1068622.24    | 2337840.60 | 1068661.35    | 2337827.27 | 1068673.76 | 2337831.09 |
| 14              | 1068610.45    | 2337855.34 | 1068610.74    | 2337916.07 |            |            |
| 15              | 1068719.41    | 2338054.29 | 1068619.06    | 2337931.51 |            |            |
| 16              | 1068806.76    | 2338207.90 | 1068740.29    | 2338083.06 |            |            |
| 17              | 1068584.46    | 2338509.67 | 1068437.33    | 2338420.90 |            |            |
| 18              | 1068409.98    | 2338406.85 | 1068314.30    | 2338303.33 |            |            |
| 19              | 1068238.10    | 2338323.39 | 1068275.52    | 2338298.54 | 1068274.15 | 2338306.18 |
| 20              | 1068235.39    | 2338347.81 | 1068246.60    | 2338417.63 |            |            |
| 21              | 1068414.93    | 2338491.86 | 1068286.95    | 2338426.27 |            |            |
| 22              | 1068556.46    | 2338590.50 | 1068426.10    | 2338508.08 |            |            |
| 23              | 1068617.24    | 2339043.63 | 1068404.98    | 2339013.69 |            |            |
| 24              | 1068340.32    | 2339005.61 | 1068384.55    | 2339003.40 |            |            |
| 25              | 1068292.59    | 2339071.86 | 1068304.36    | 2339025.41 | 1068315.45 | 2339017.00 |
| 26              | 1068293.20    | 2339083.45 | 1068388.50    | 2339122.71 |            |            |
| 27              | 1068439.85    | 2339128.36 | 1068581.03    | 2339137.23 |            |            |
| 28              | 1068853.57    | 2339141.02 | 1068607.23    | 2339133.20 |            |            |
| 29              | 1068855.73    | 2339156.90 | 1068718.47    | 2339055.77 |            |            |
| 30              | 1068676.98    | 2338814.61 | 1068713.55    | 2339025.29 |            |            |
| 31              | 1068669.33    | 2338781.96 | 1068656.86    | 2338566.66 | 1068712.77 | 2339042.90 |
| 32              | 1068787.76    | 2338354.27 | 1068666.19    | 2338537.47 |            |            |
| 33              | 1068818.07    | 2338322.09 | 1068976.19    | 2338216.37 | 1068663.61 | 2338546.25 |
| 34              | 1069005.58    | 2338203.36 | 1068990.31    | 2338206.96 |            |            |
| 35              | 1069370.86    | 2338030.84 | 1069382.36    | 2338024.68 | 106929.04  | 2338243.60 |
| 36              | 1069646.44    | 2337919.66 | 1069401.39    | 2338013.66 |            |            |
| 37              | 1069703.78    | 2337924.04 | 1069711.61    | 2337923.66 | 1069679.64 | 2337916.27 |
| Hidden Oaks Dr. |               |            |               |            | 1070009.65 | 2338090.09 |

| Revisions |          |                      |     |
|-----------|----------|----------------------|-----|
| #         | Date     | Nature               | By  |
| 1         | 11-18-14 | RESPONSE TO COMMENTS | RCM |
| 2         | 3-16-15  | RESPONSE TO COMMENTS | RCM |
| 3         | 11-4-15  | AS-BUILT DRAWINGS    | SJS |

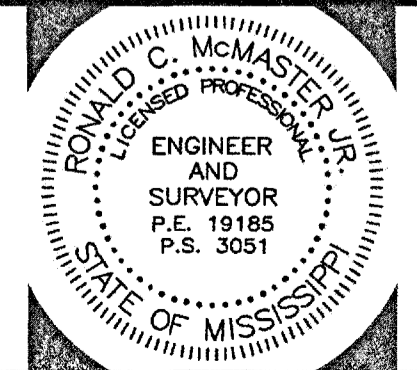
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|-------------|-----------|-------------|--------|
| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

# BRIDGEWATER 11 ADDITION

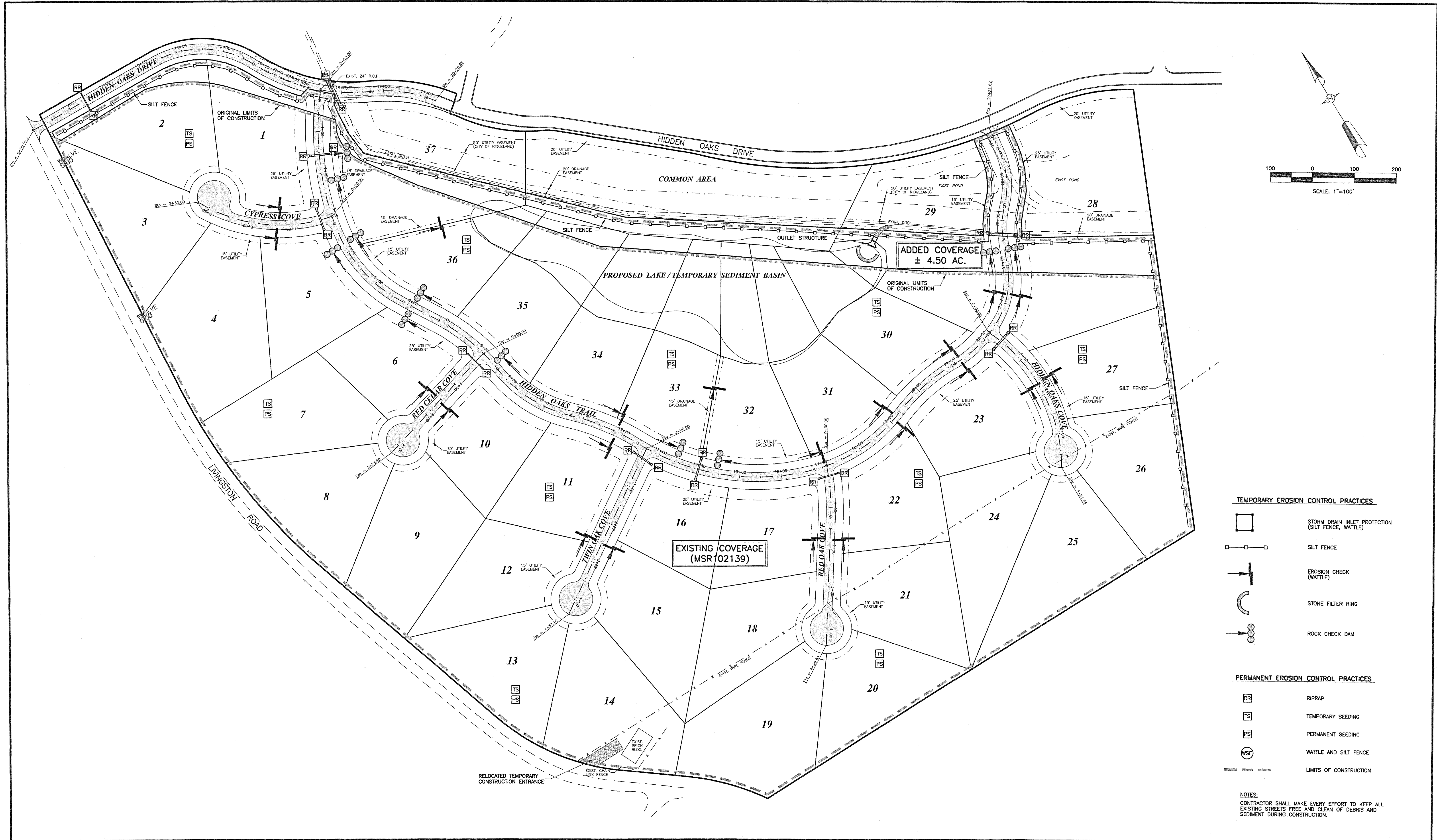


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WATER AND SEWER LAYOUT



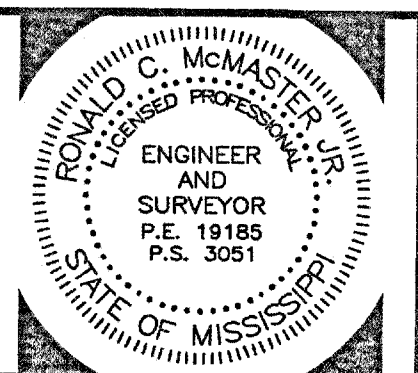
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| #         | Date     | Nature               |
| 1         | 11-18-14 | RESPONSE TO COMMENTS |
| 2         | 3-16-15  | RESPONSE TO COMMENTS |

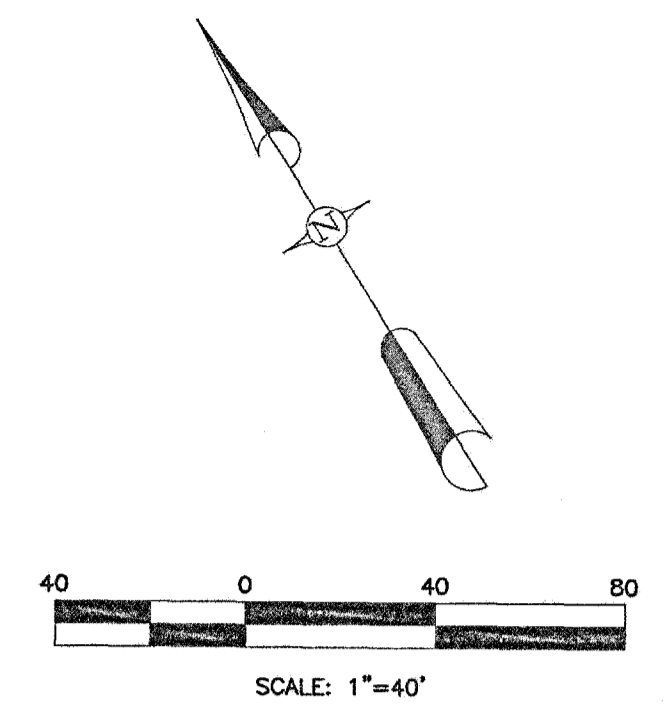
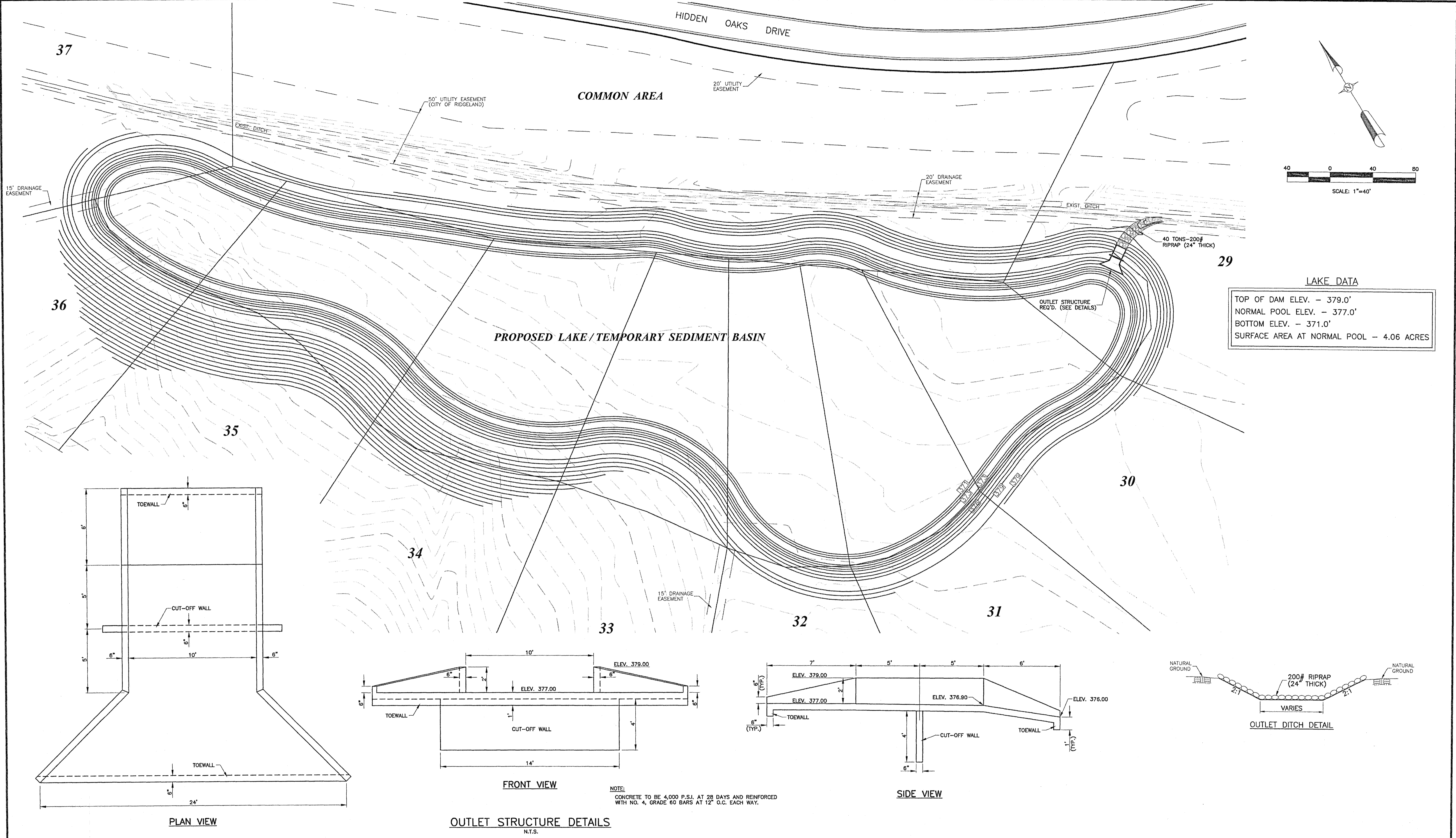
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

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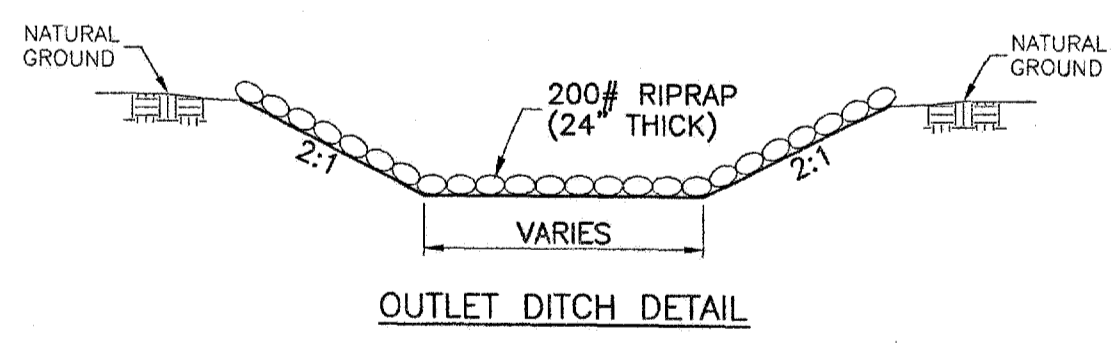
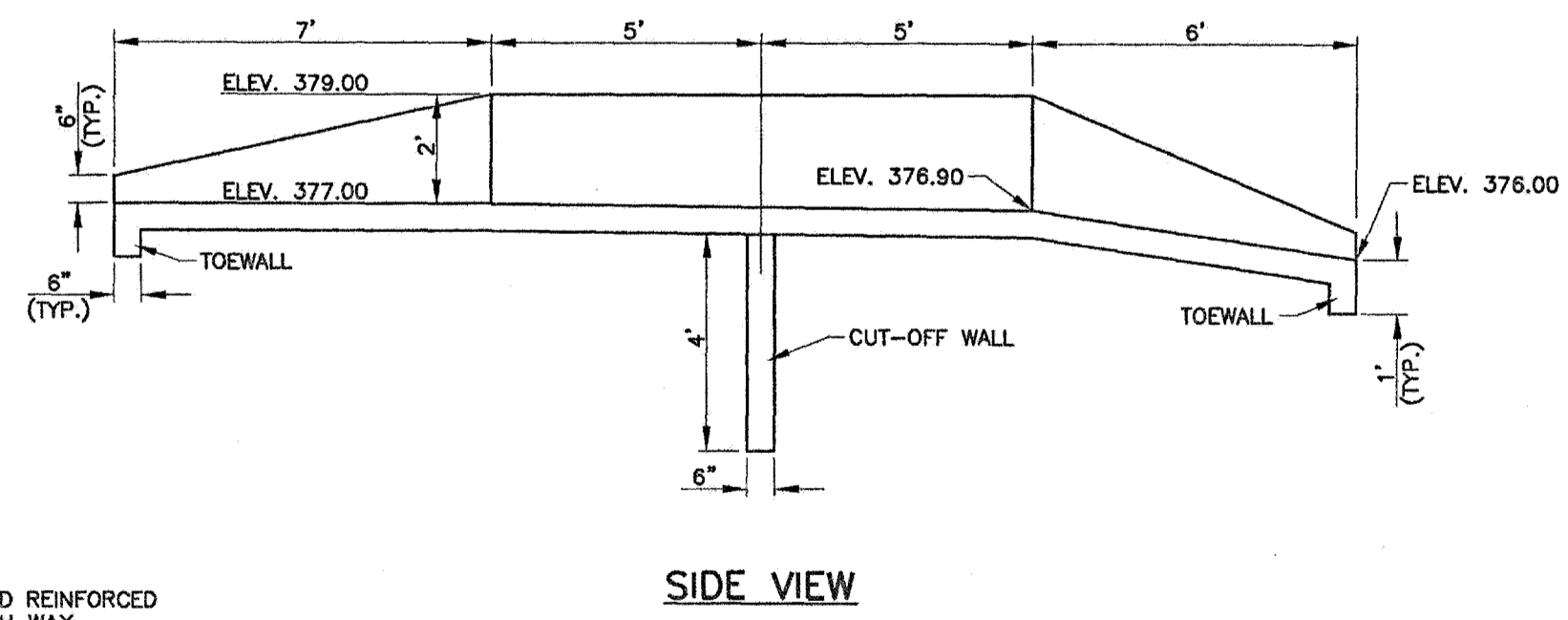
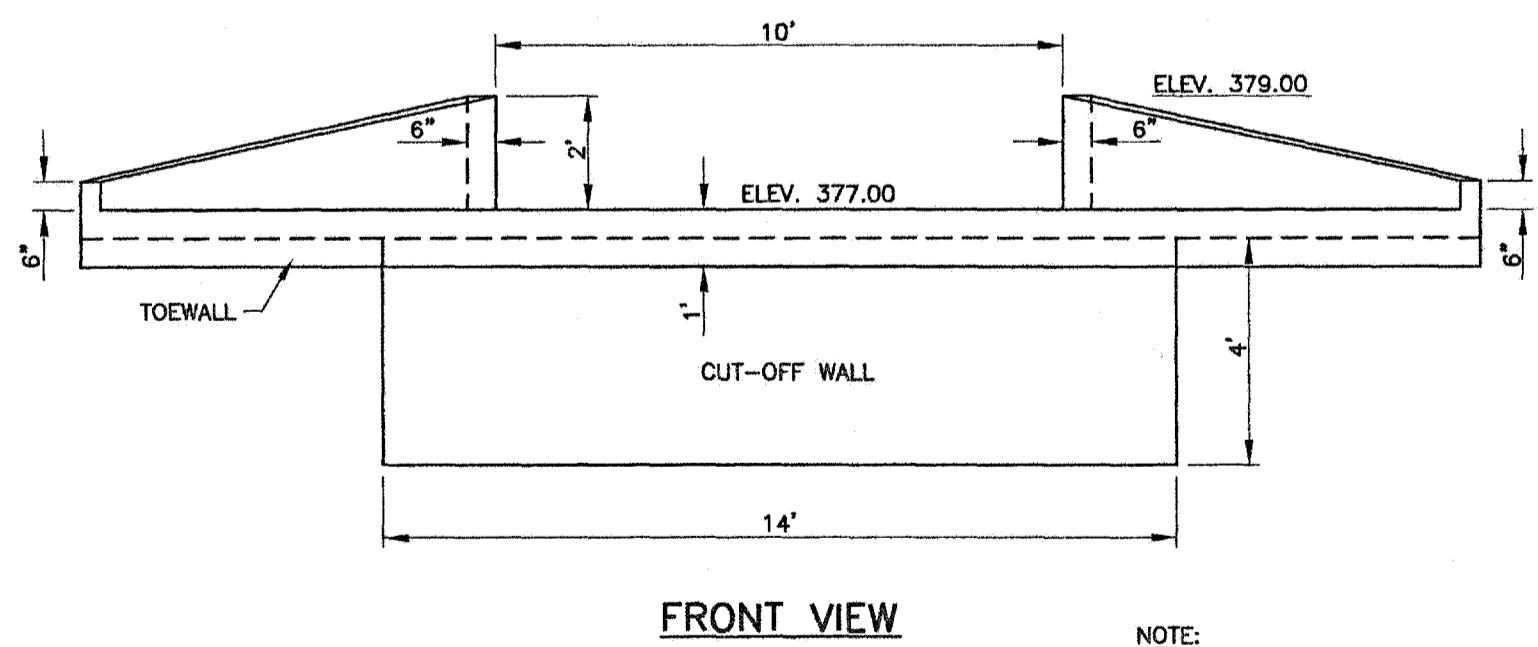
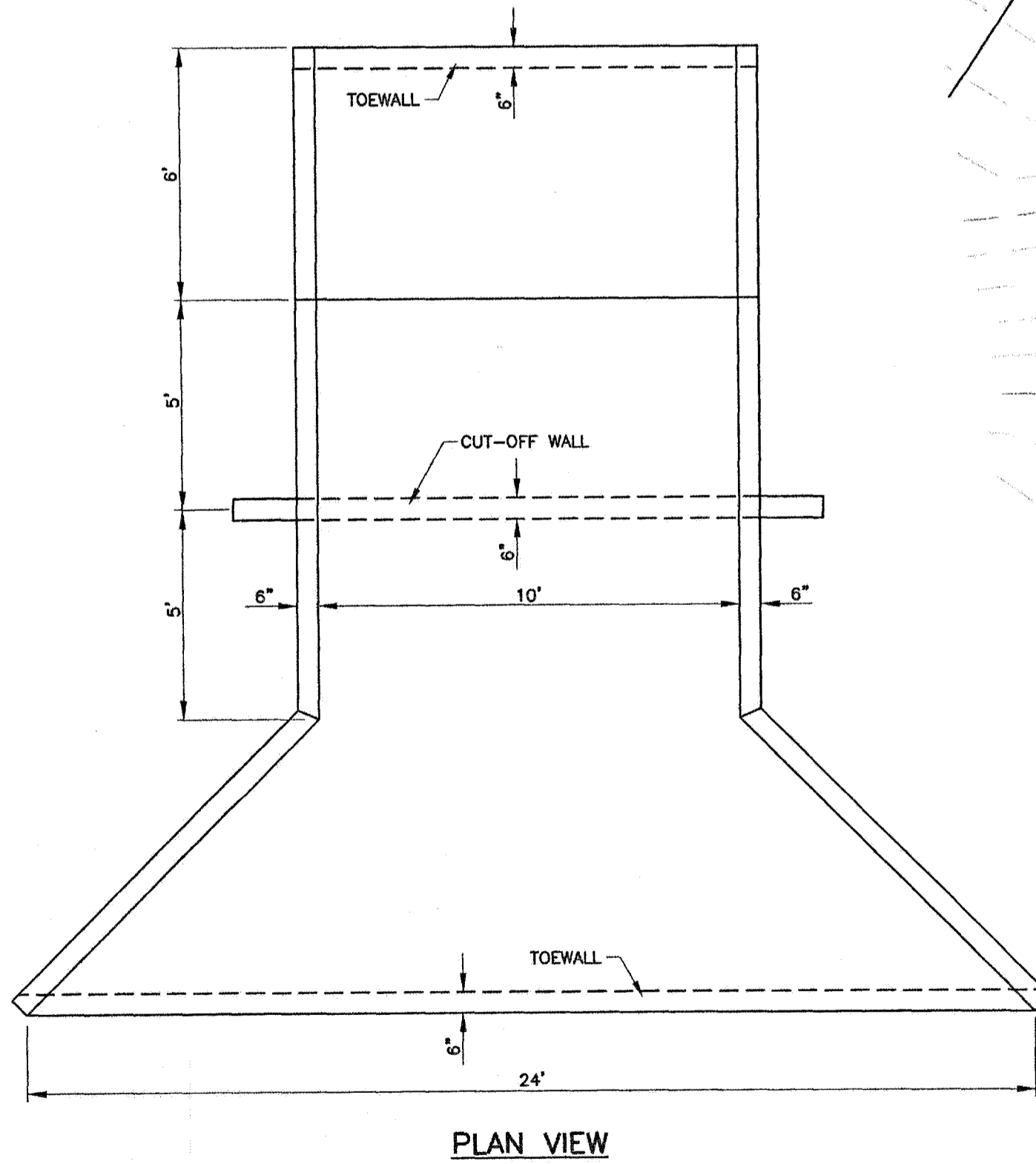
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**LAKE DATA**  
 TOP OF DAM ELEV. - 379.0'  
 NORMAL POOL ELEV. - 377.0'  
 BOTTOM ELEV. - 371.0'  
 SURFACE AREA AT NORMAL POOL - 4.06 ACRES

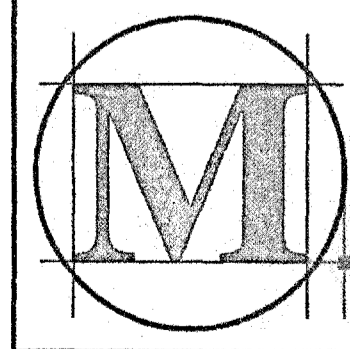


NOTE:  
 CONCRETE TO BE 4,000 P.S.I. AT 28 DAYS AND REINFORCED  
 WITH NO. 4, GRADE 60 BARS AT 12" O.C. EACH WAY.  
 N.T.S.

| Revisions |          |                      |     |        |
|-----------|----------|----------------------|-----|--------|
| #         | Date     | Nature               | By  | App'd. |
| 1         | 11-18-14 | RESPONSE TO COMMENTS | RCM | RCM    |
| 2         | 3-16-15  | RESPONSE TO COMMENTS | RCM | RCM    |
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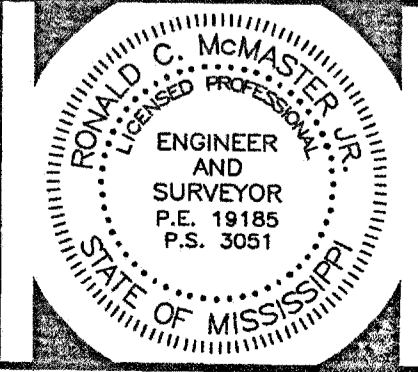
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

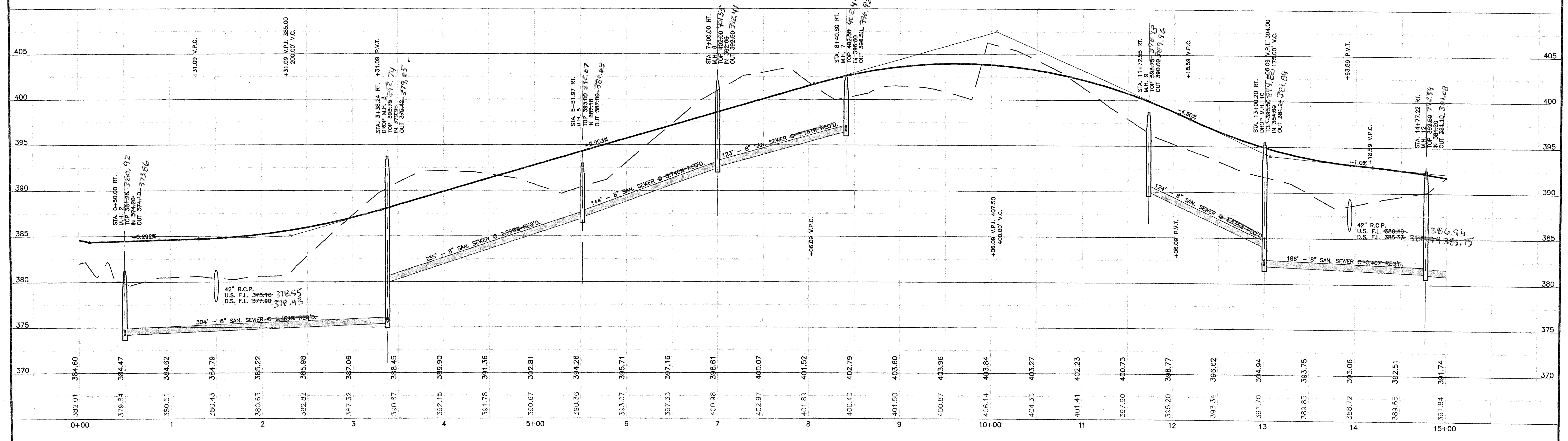
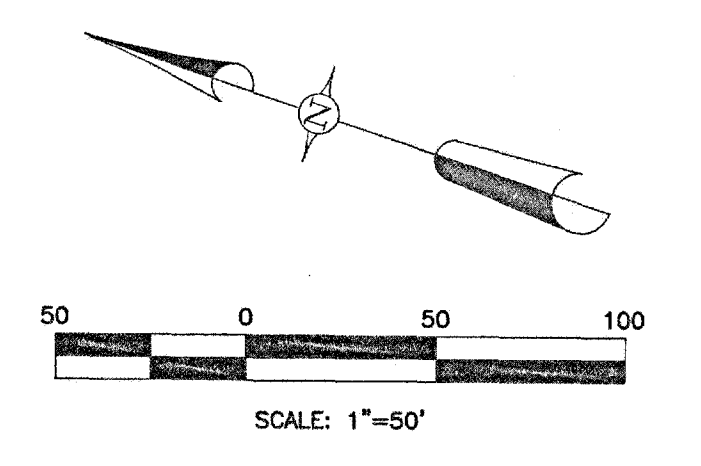
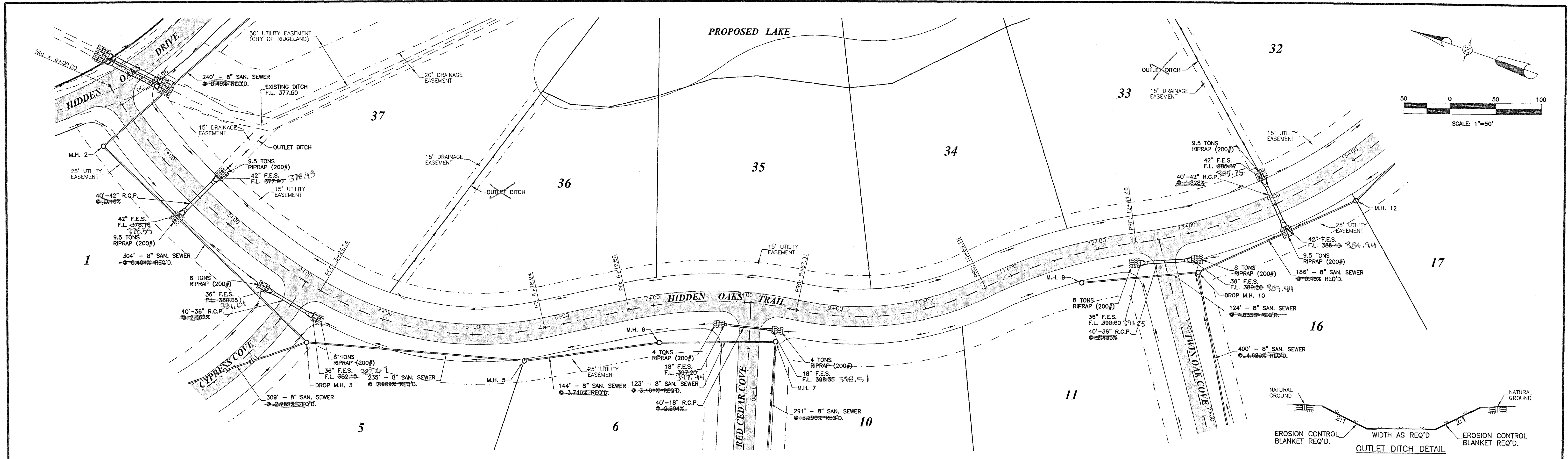
# BRIDGEWATER 11 ADDITION



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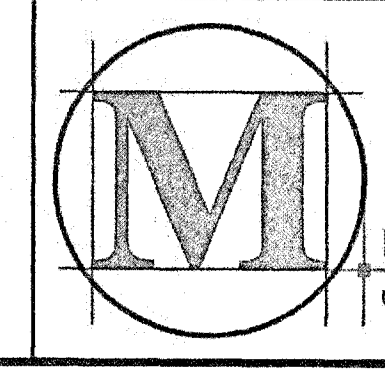




| Revisions |          |                      |
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| 2         | 3/16/15  | RESPONSE TO COMMENTS |

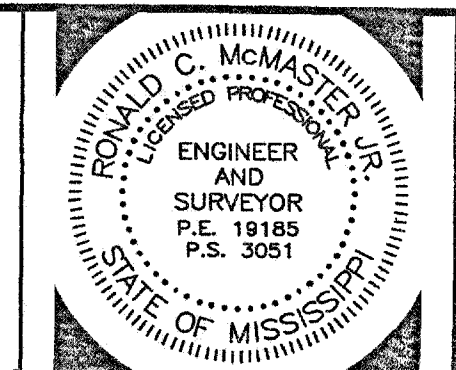
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

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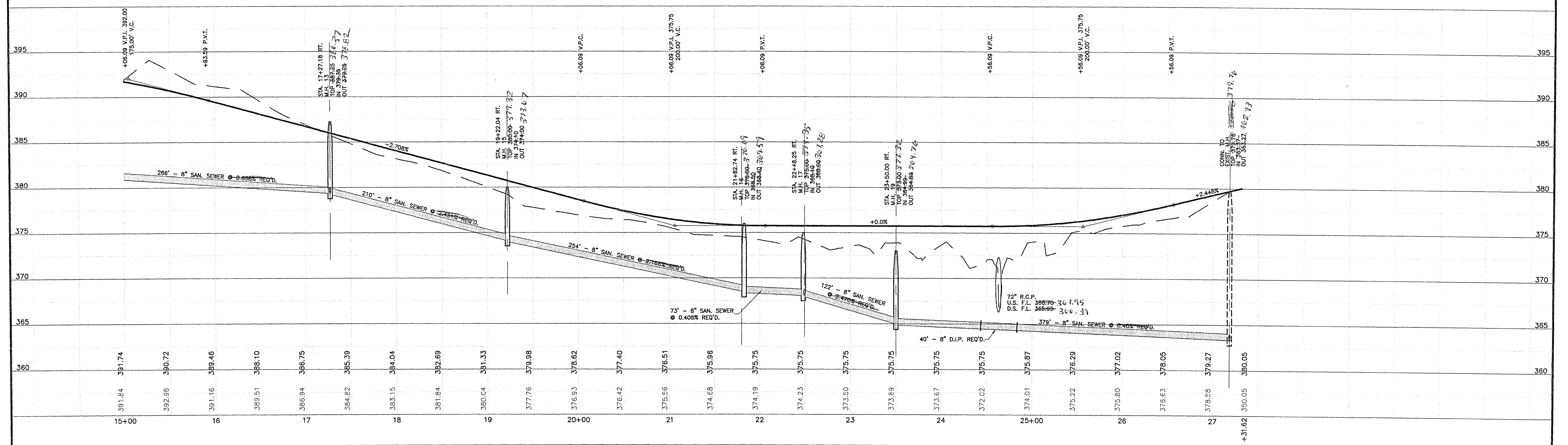
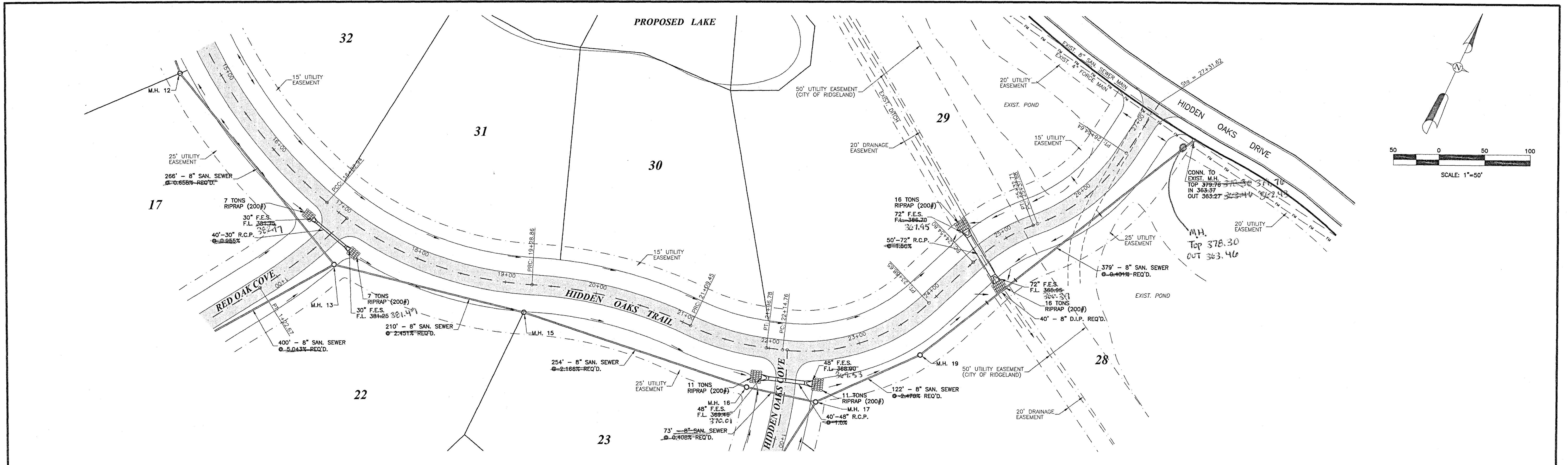


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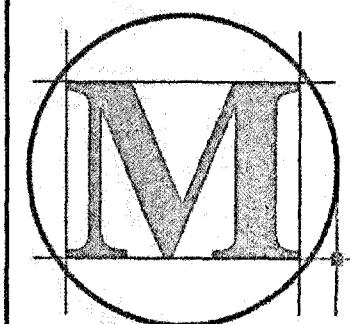




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| 1         | 11/18/14 | RESPONSE TO COMMENTS | RCM | RCM   |
| 2         | 3/16/15  | RESPONSE TO COMMENTS | RCM | RCM   |

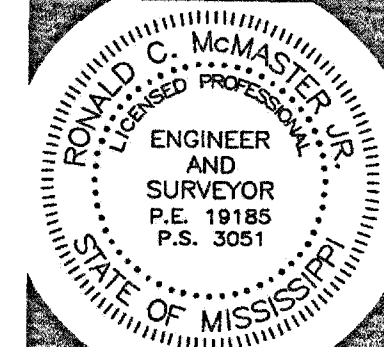
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| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

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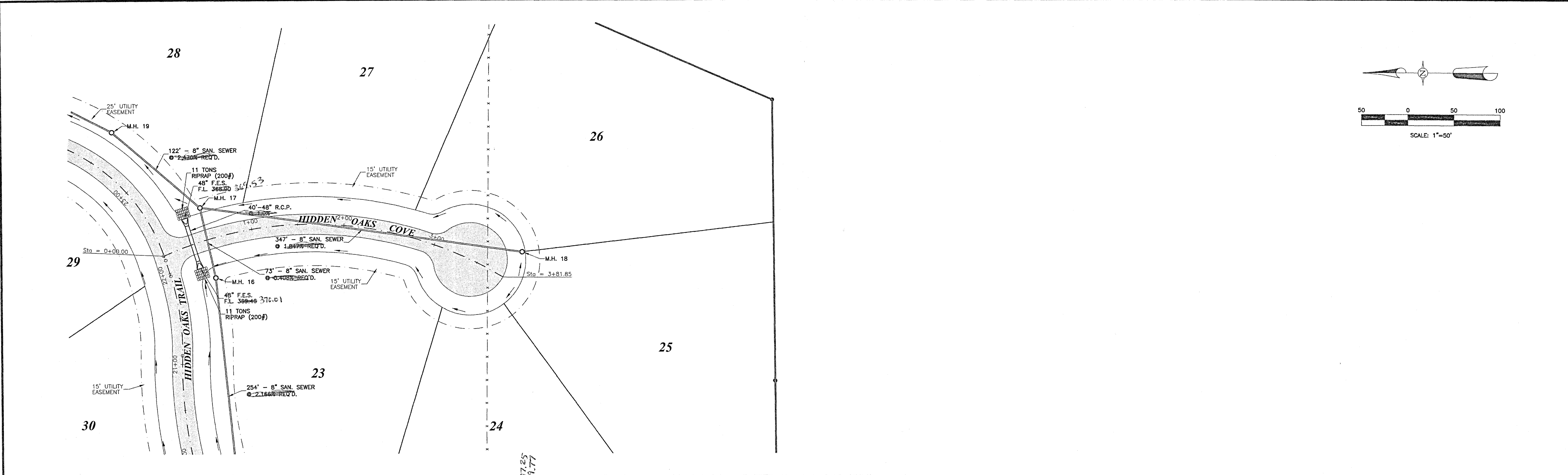
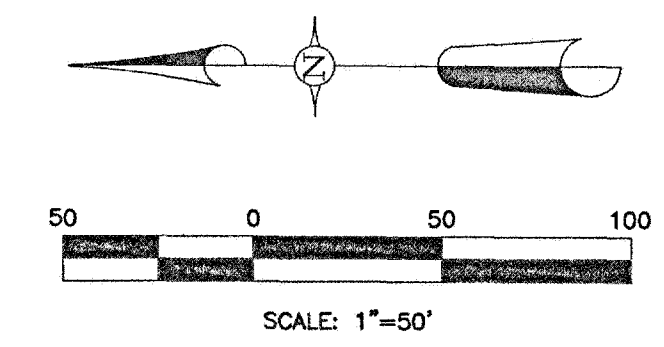


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PLAN & PROFILE  
 HIDDEN OAKS TRAIL



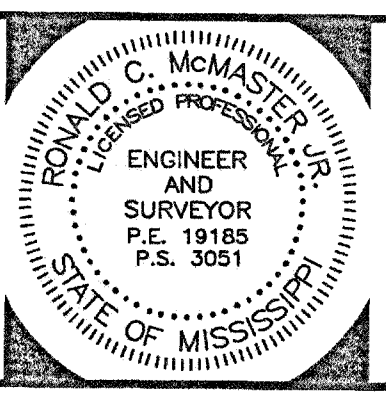
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| #         | Date     | Nature               | By  | App'd. |
| 1         | 11/18/14 | RESPONSE TO COMMENTS | RCM | RCM    |
| 2         | 3/16/15  | RESPONSE TO COMMENTS | RCM | RCM    |
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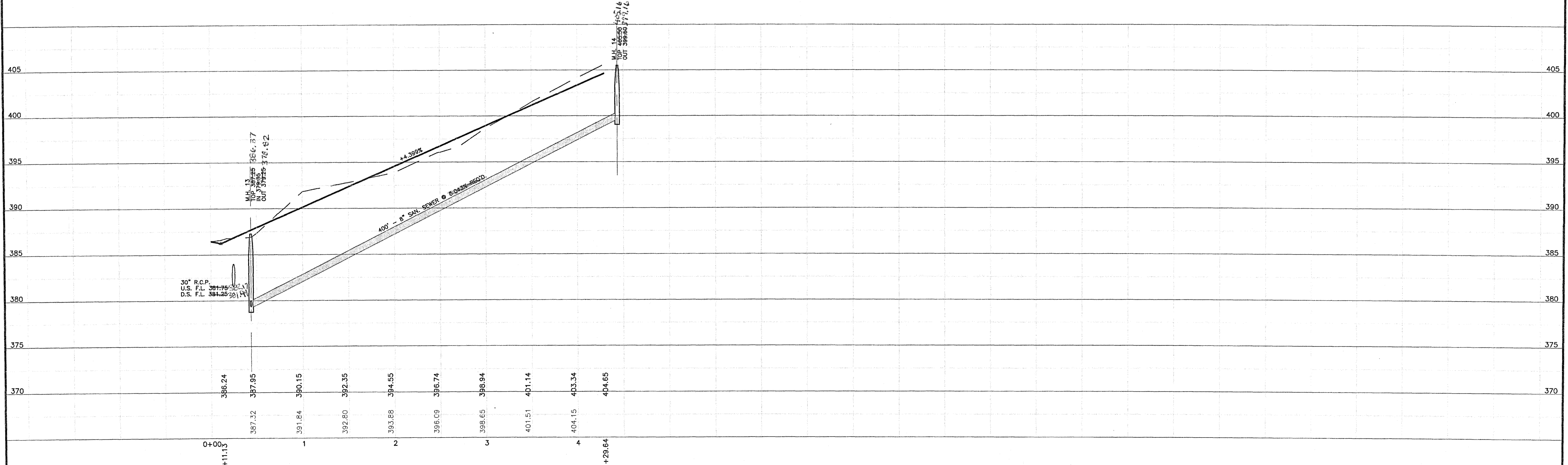
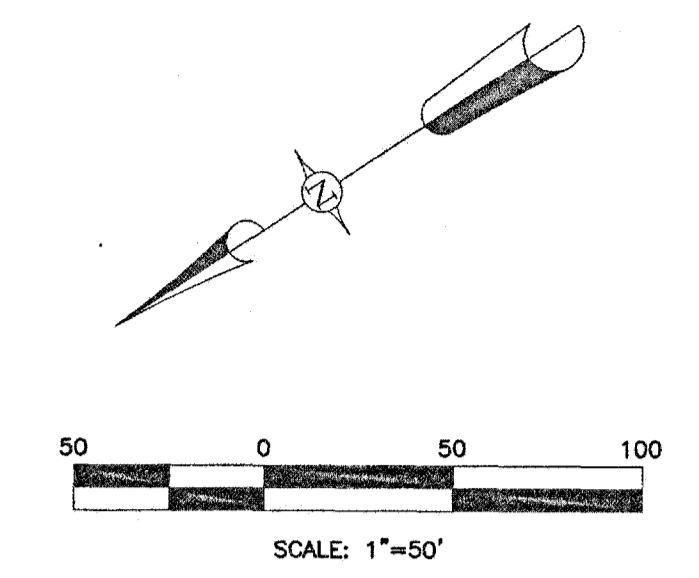
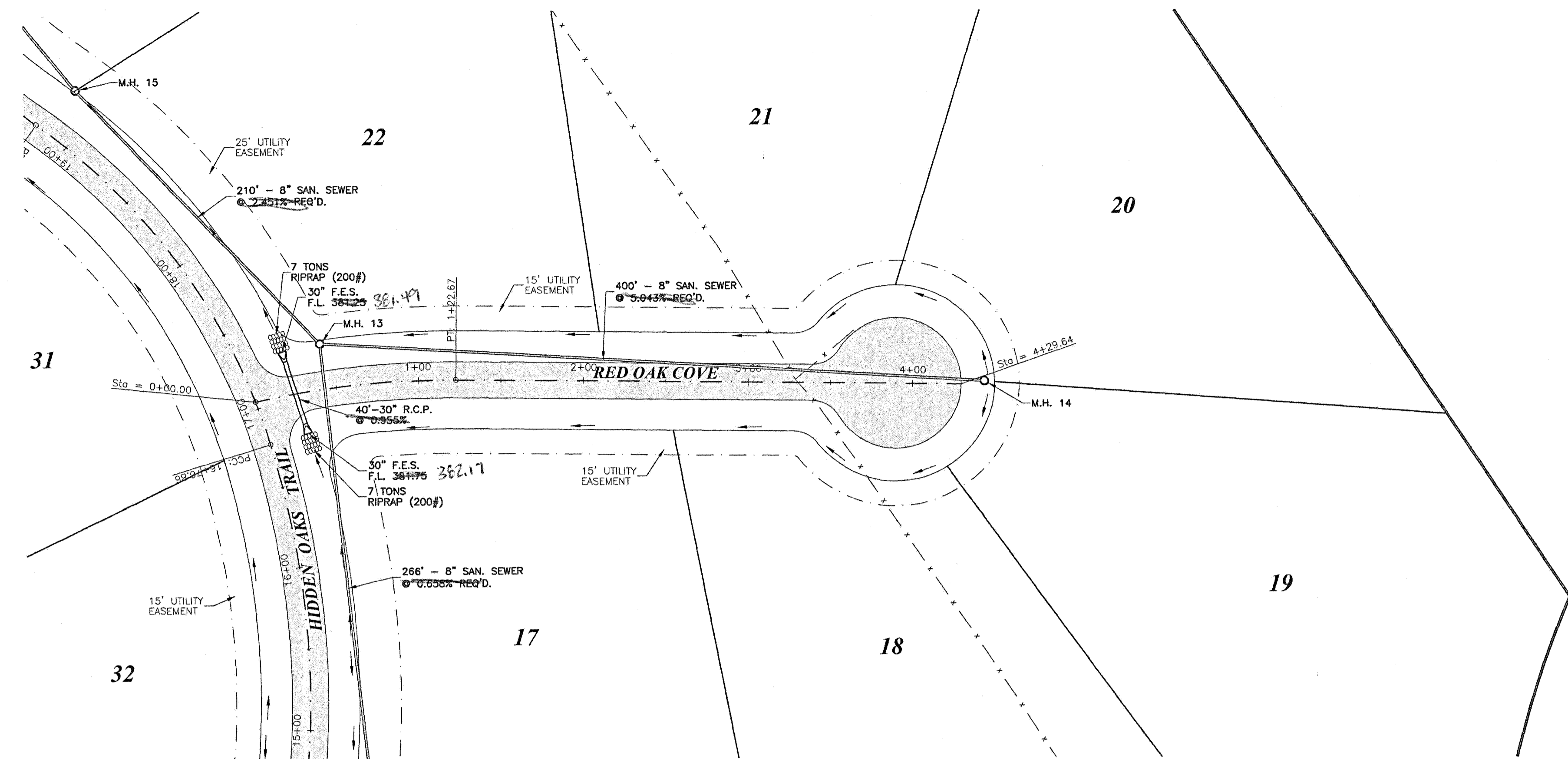
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

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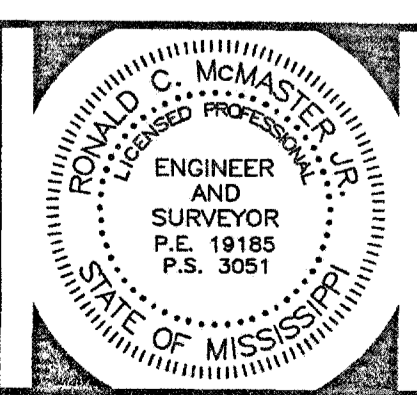
| Revisions |          |                      |     |        |
|-----------|----------|----------------------|-----|--------|
| #         | Date     | Nature               | By  | App'd. |
| 1         | 11/14/14 | RESPONSE TO COMMENTS | RCM | RCM    |
| 2         | 3/2/15   | RESPONSE TO COMMENTS | RCM | RCM    |
|           |          |                      |     |        |
|           |          |                      |     |        |
|           |          |                      |     |        |

|             |           |
|-------------|-----------|
| Project No. | M-2227    |
| Designed By | R.C.M.    |
| Date        | 3/2/15    |
| Drawn By    | D.P.      |
| Scale       | SEE ABOVE |
| Checked By  | R.C.M.    |

**BRIDGEWATER 11 ADDITION**

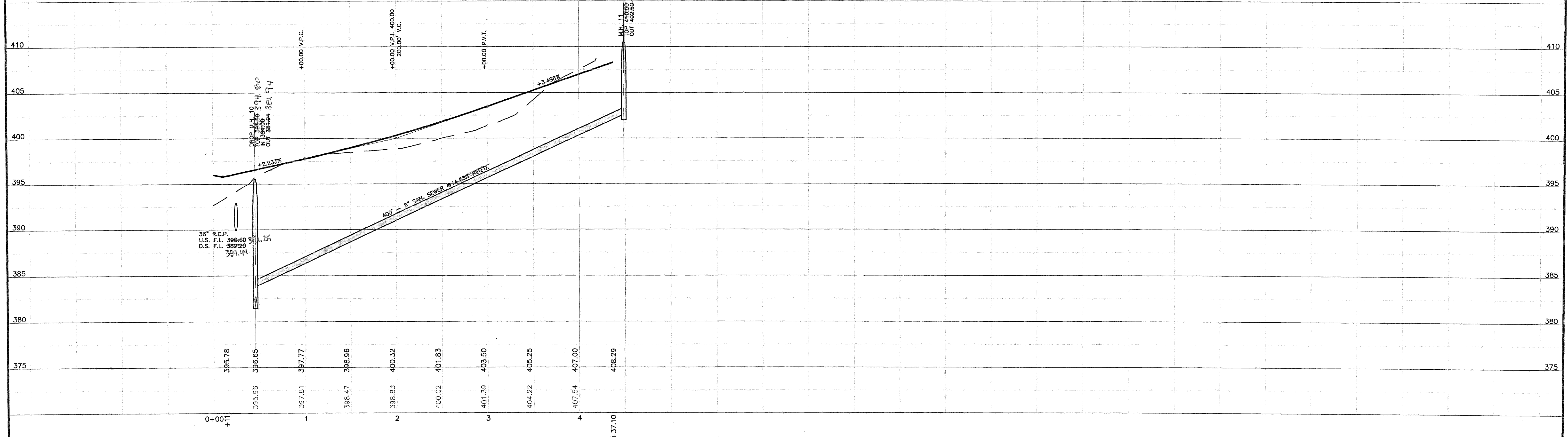
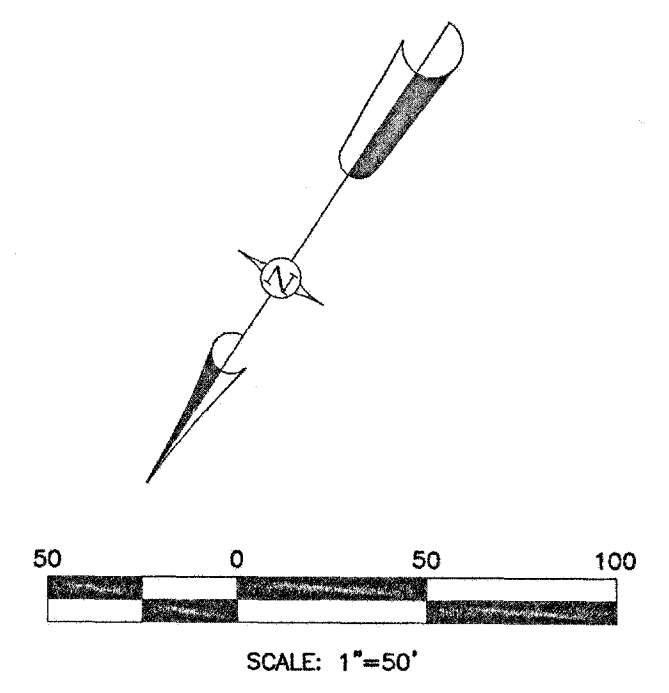
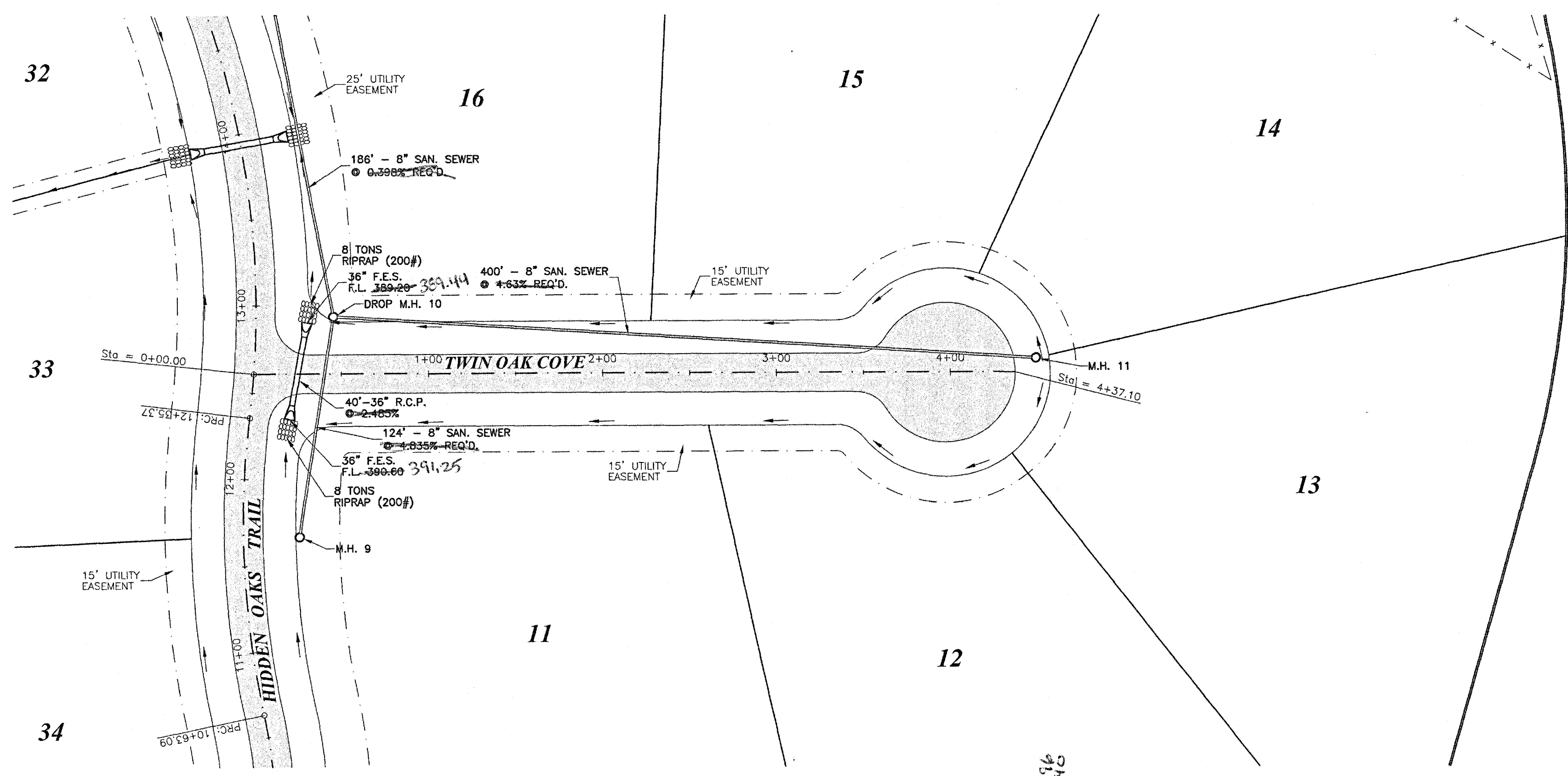
**McMASTER & ASSOCIATES, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS

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SUITE 300  
MADISON, MS 39110  
601.605.1090



PLAN & PROFILE  
RED OAK COVE

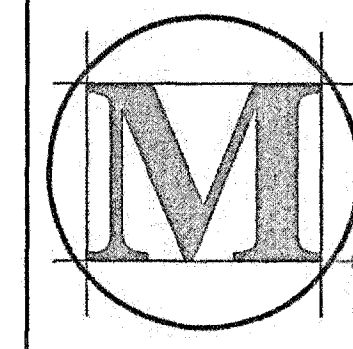
**11**



| Revisions |          |                      |     |        |
|-----------|----------|----------------------|-----|--------|
| #         | Date     | Nature               | By  | App'd. |
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| 2         | 3/18/15  | RESPONSE TO COMMENTS | RCM | RCM    |

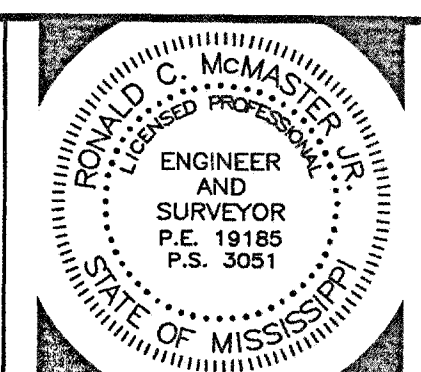
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

# BRIDGEWATER 11 ADDITION

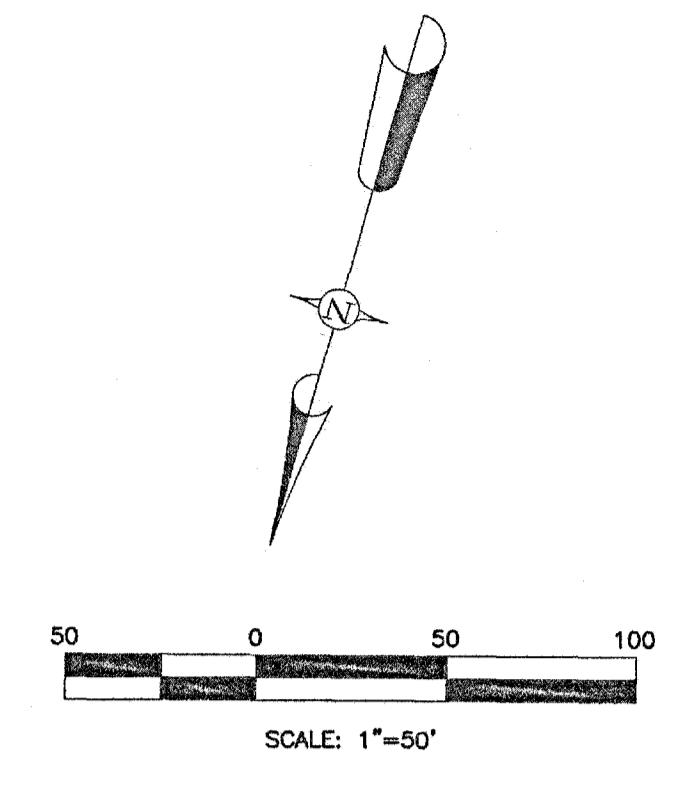
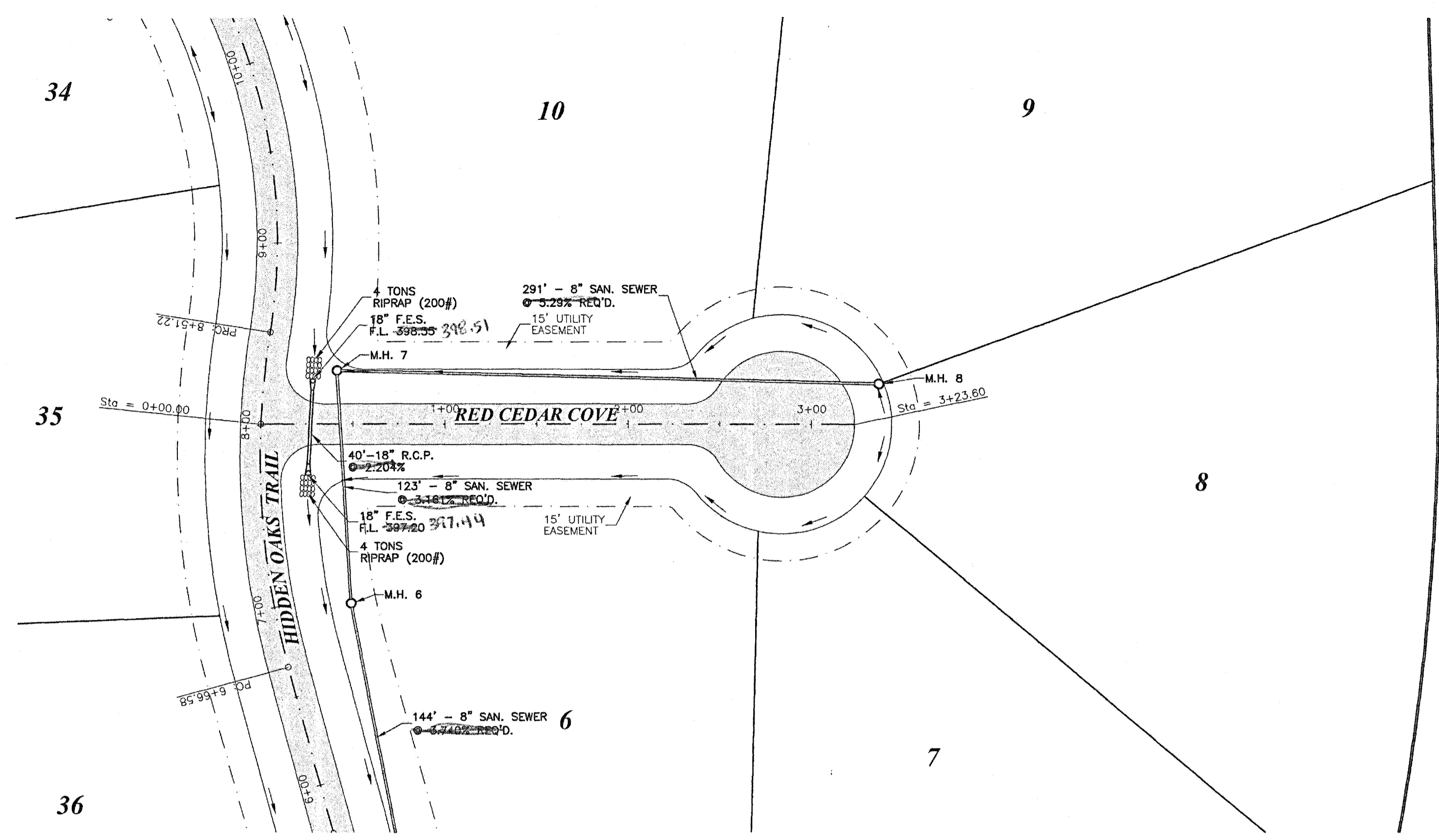


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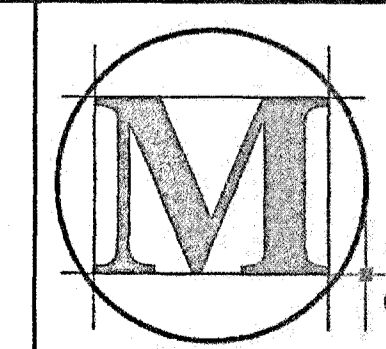
PLAN & PROFILE  
TWIN OAK COVE



| Revisions |          |                      |     |       |  |
|-----------|----------|----------------------|-----|-------|--|
| #         | Date     | Revision             | By  | App'd |  |
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| 2         | 3/18/15  | RESPONSE TO COMMENTS | RCM | RCM   |  |

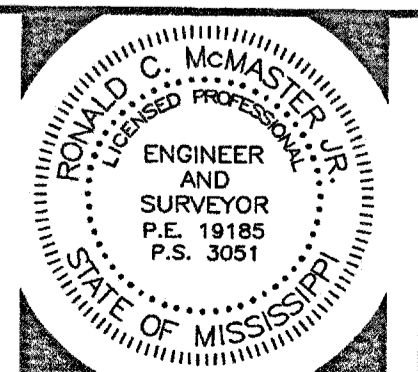
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

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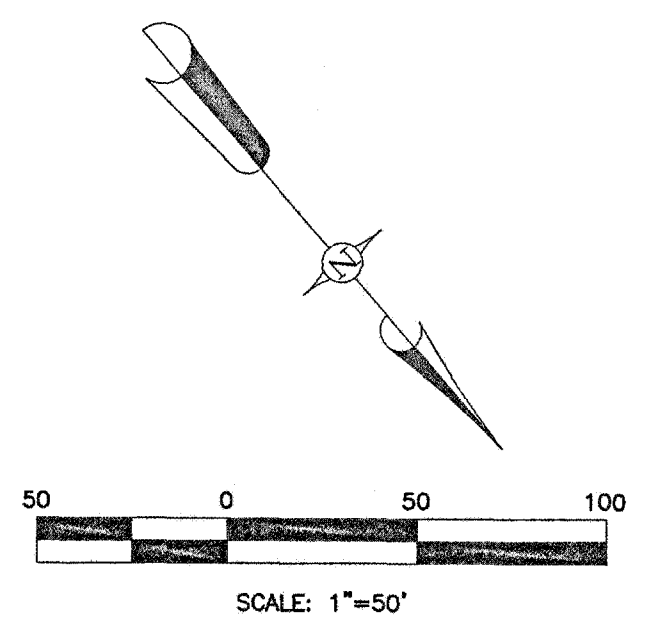
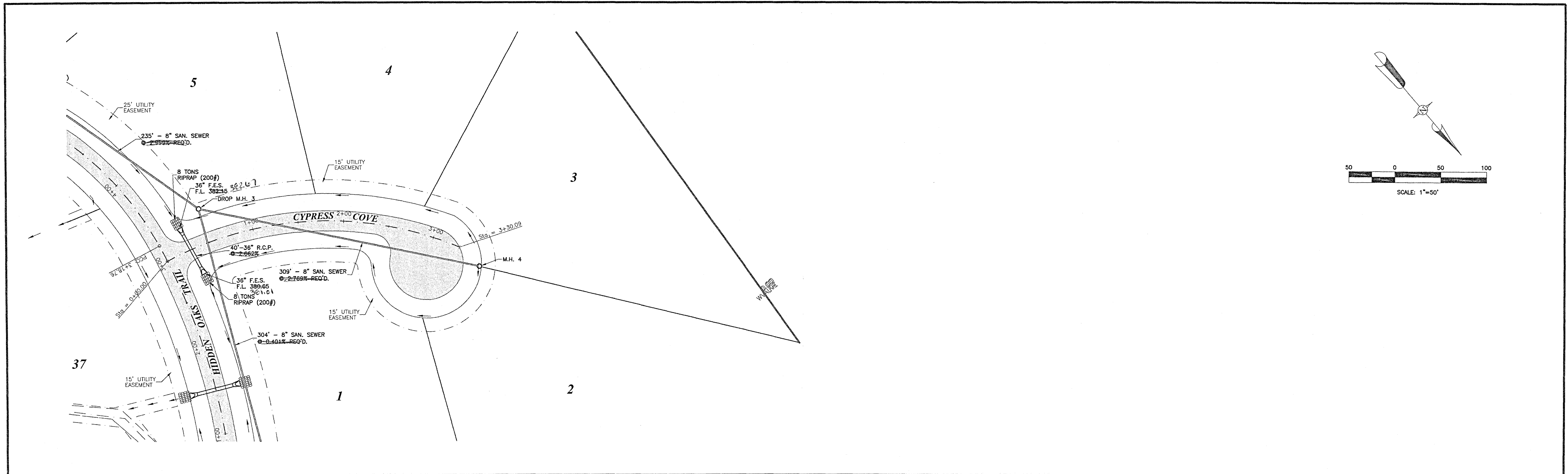


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PLAN & PROFILE  
RED CEDAR COVE  
**13**



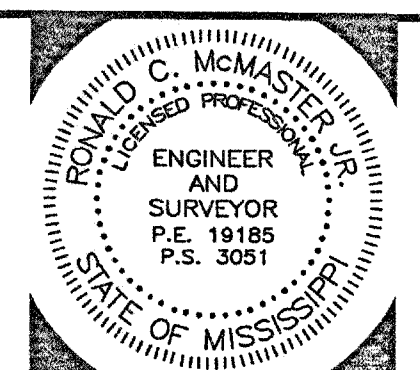
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|-----------|----------|----------------------|-----|--------|
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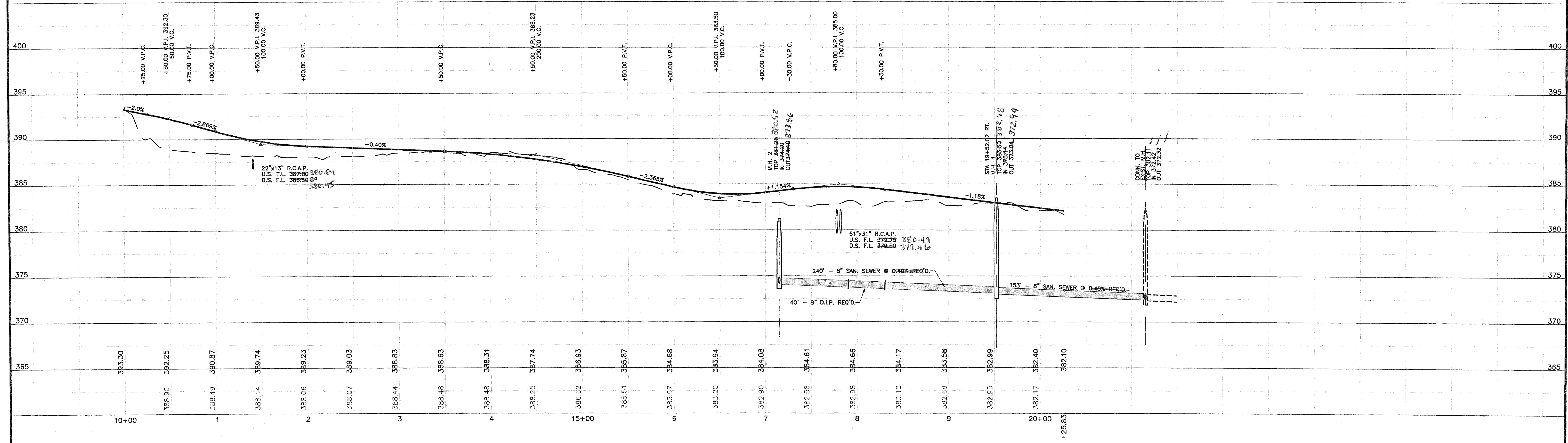
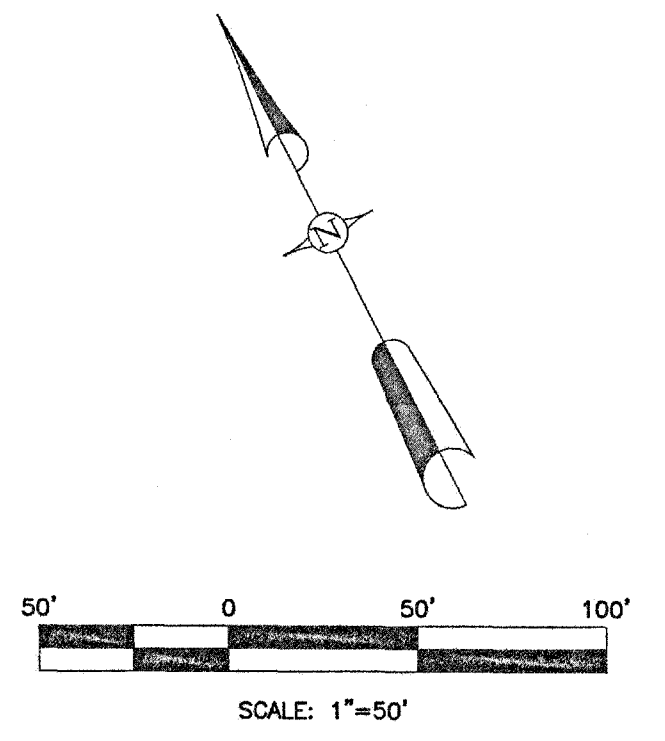
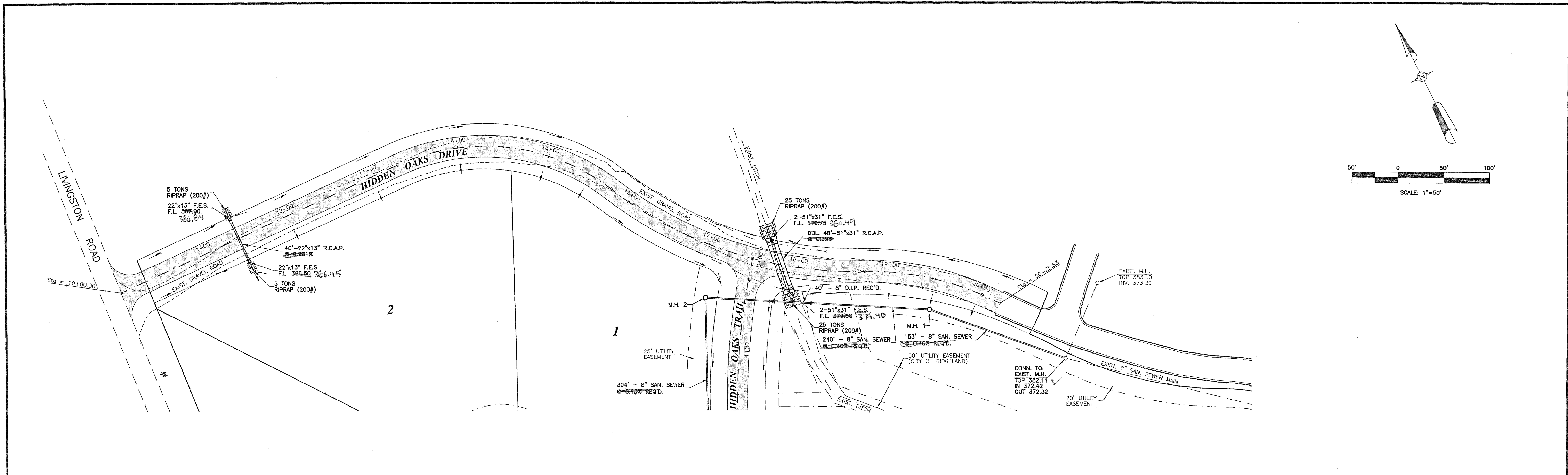
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| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

# BRIDGEWATER 11 ADDITION

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SUITE 300  
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| Revisions |          |                      |     |       |
|-----------|----------|----------------------|-----|-------|
| #         | Date     | Nature               | By  | Appd. |
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|           |          |                      |     |       |
|           |          |                      |     |       |
|           |          |                      |     |       |

|             |           |             |        |
|-------------|-----------|-------------|--------|
| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

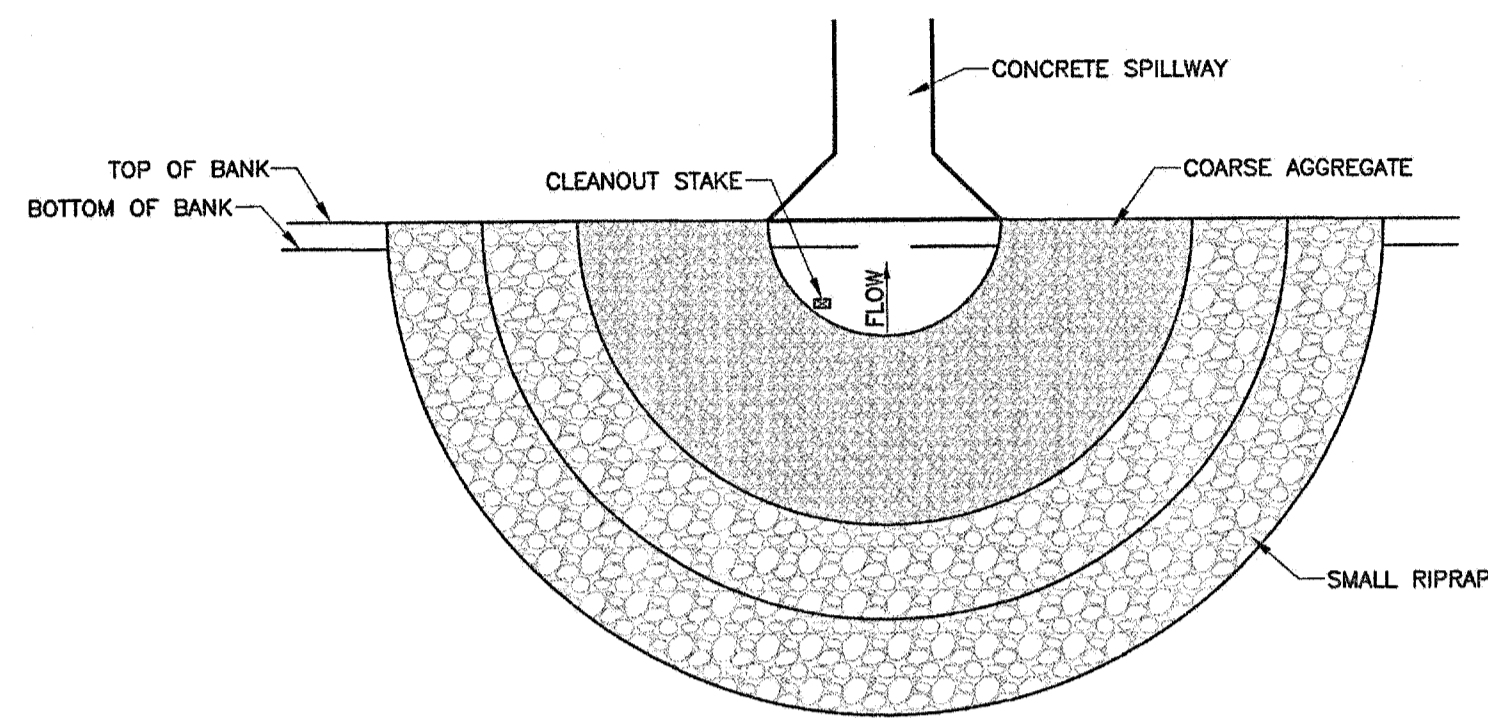
**BRIDGEWATER 11 ADDITION**

**McMASTER & ASSOCIATES, INC.**  
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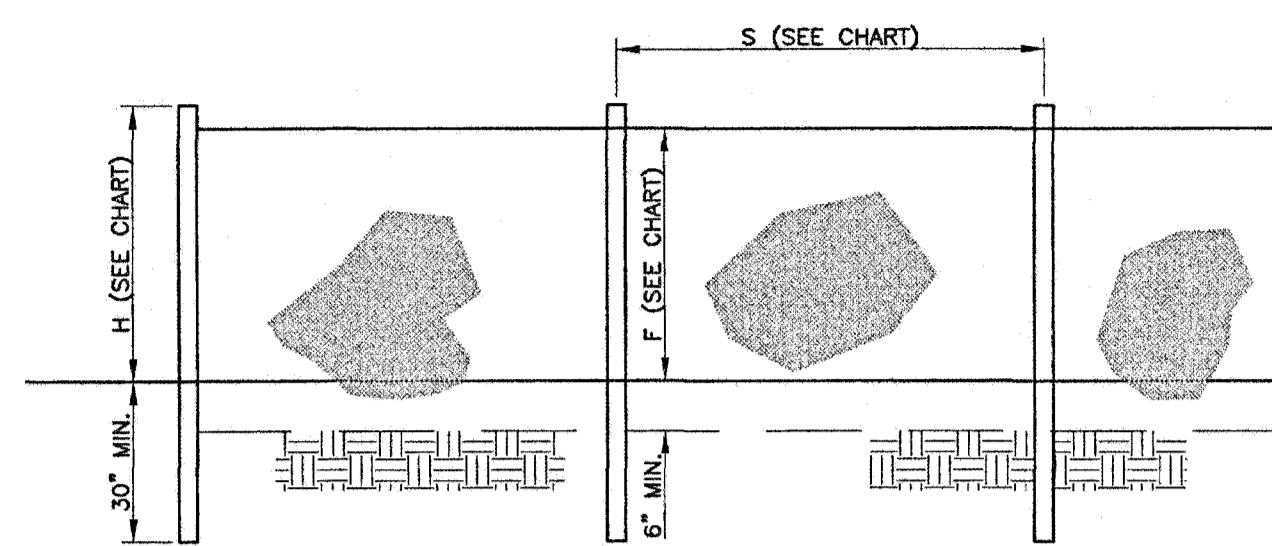
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PLAN & PROFILE  
HIDDEN OAKS DRIVE

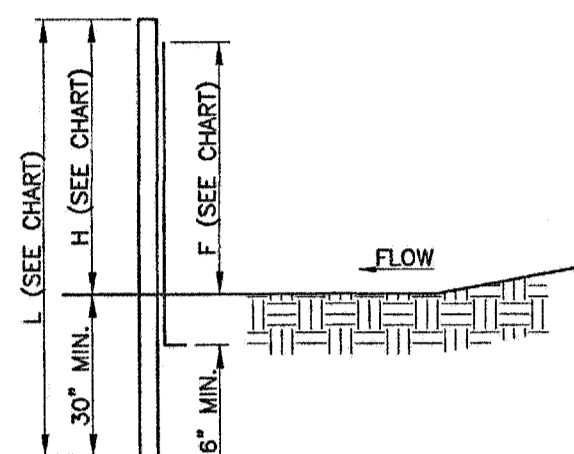
15



OUTLET (PLAN VIEW)  
**TEMPORARY STONE FILTER RING DETAILS**  
 N.T.S.



ELEVATION

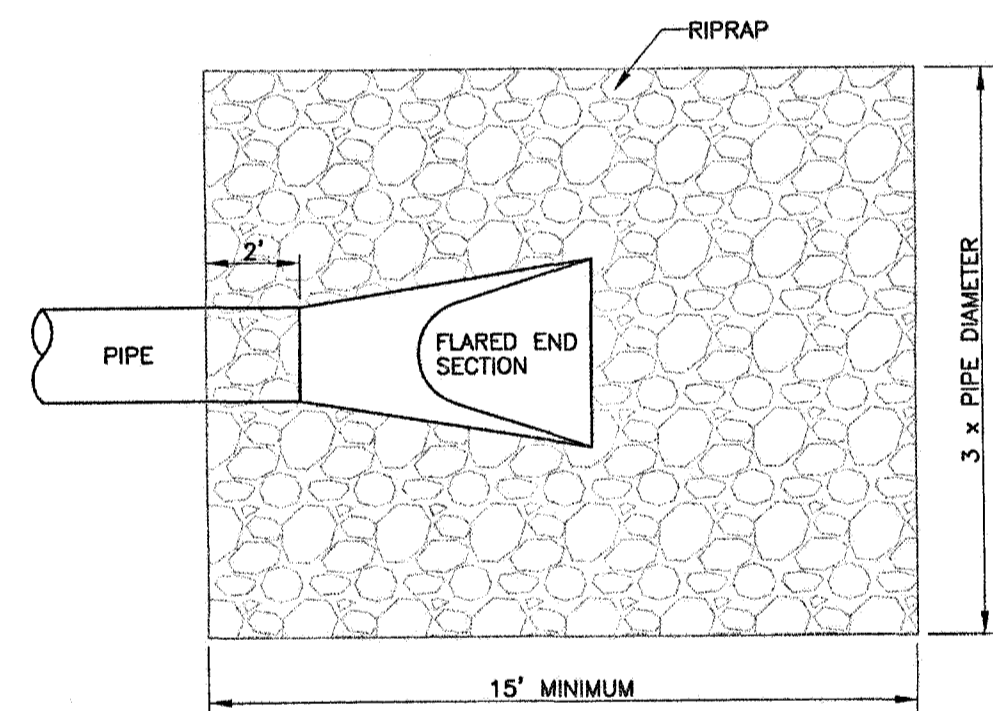


SECTION

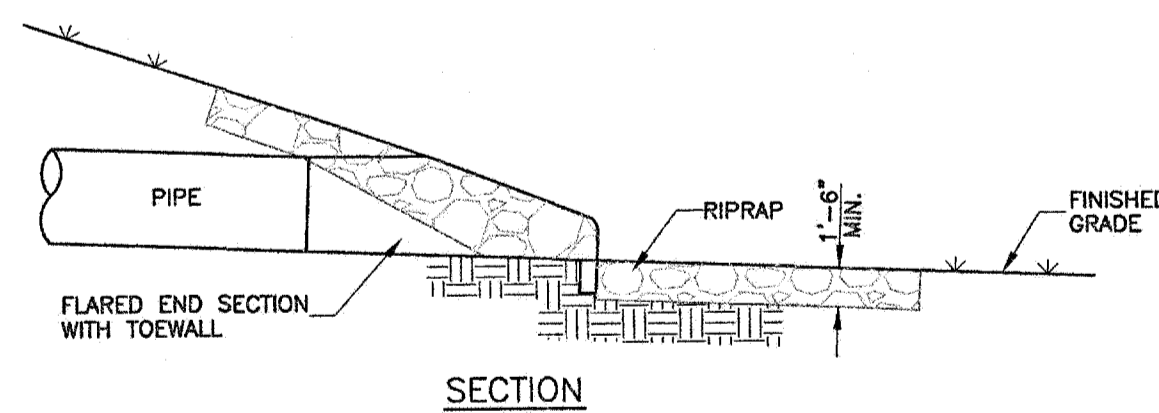
|  | POST SIZE, MATERIAL AND SPACING CHART |                    |
|--|---------------------------------------|--------------------|
|  | WITHOUT BACKING                       | WITH BACKING       |
| MIN. LENGTH=L  | 58"                                   | 58"                |
| MIN. HEIGHT=H  | 2'-0"                                 | 2'-6"              |
| MAX. SPACING=S   | 6'-0"                                 | 6'-0"              |
| MIN. FABRIC WIDTH  | 28"                                   | 30"                |
| MATERIAL   | 1.25 LB./YD. STEEL                    | 1.25 LB./YD. STEEL |
| TENSILE STRENGTH (LBS. MIN. (1)) (ASTM D-4632)                 | WARP - 120                            | FILL - 300         |
| ELONGATION (IN MAX.) (ASTM D-4632)                             | 20                                    | ---                |
| ACS (APPROXIMATE OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4753) | 430                                   | 470                |
| FLOW RATE (GAL./MIN./SQ. FT.) (DOT 87) (MAX.)                  | 4                                     | 18                 |
| ULTRAVIOLET STABILITY (2) (ASTM D-4632) (AFTER 1000 HOURS)     | 70                                    | 90                 |
| WEATHERING IN ACCORDANCE WITH ASTM D-4632                      | 250                                   | 400                |
| TEAR STRENGTH (LBS./INCH) (ASTM D-3983) (RIPRAP)               | ---                                   | ---                |
| TEAR STRENGTH (LBS./INCH) (ASTM D-3983) (STEEL)                | 56                                    | 56                 |
| MIN. FABRIC WIDTH (INCHES) = F + 4"                            | ---                                   | ---                |

- NOTES:**
- USE SILT FENCE WITHOUT BACKING UNLESS OTHERWISE NOTED.
  - SILT FENCE SHALL BE INSTALLED USING A MECHANICAL TRENCHING MACHINE.
  - FABRIC, IN AREAS WHERE ROCK PROHIBITS PROPER EMBEDMENT, SHALL BE SECURED BY PLACING CLEAN CRUSHED STONE OR SAND ALONG THE BASE OF THE FENCE, 20 POUNDS OF STONE OR SAND PER FOOT, MINIMUM.
  - FILTER FABRIC SHALL BE FASTENED TO POSTS WITH A MINIMUM OF FIVE WIRES OR PLASTIC ZIP TIES WITH A MINIMUM OF 50 LBS. TENSILE STRENGTH.
  - CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT DEPTH REACHES 12".

**SILT FENCE INSTALLATION DETAILS**  
 N.T.S.

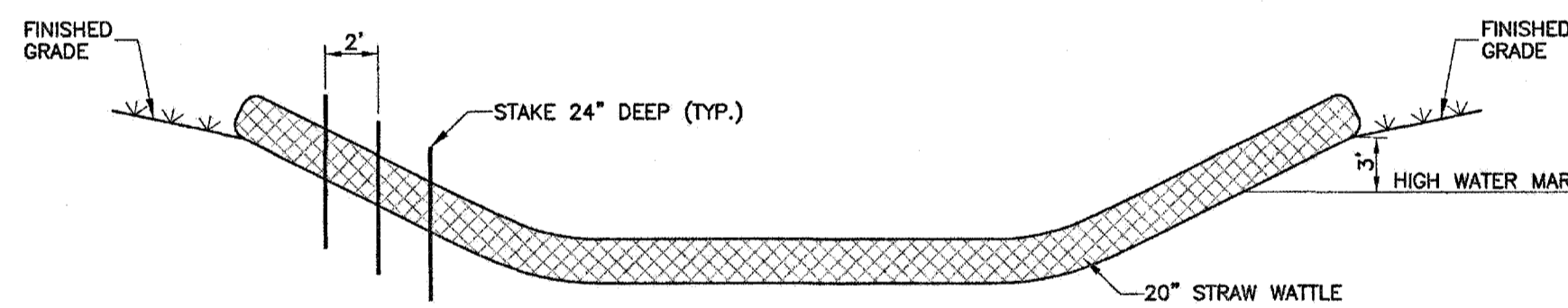


PLAN VIEW



SECTION

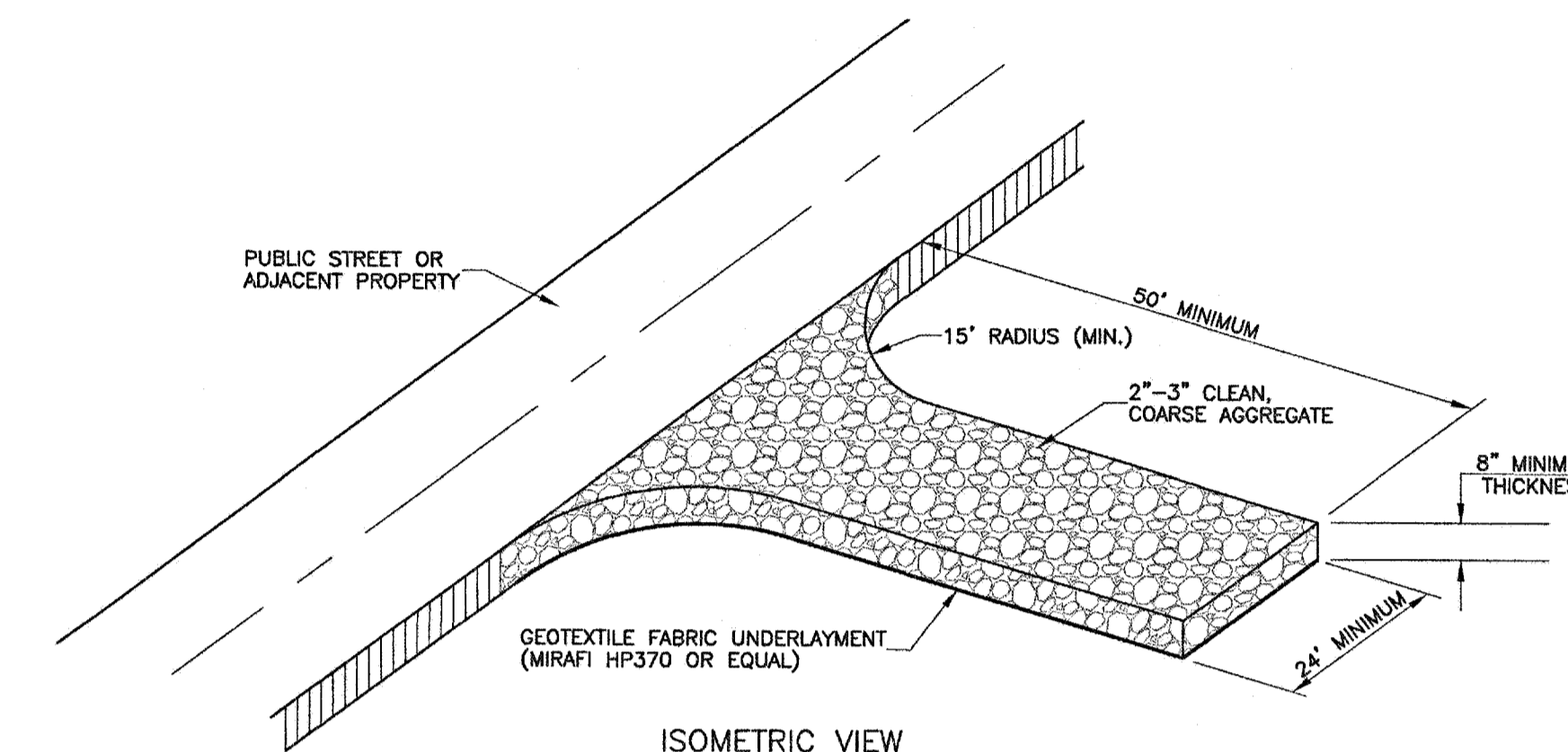
**FLARED END SECTION WITH RIPRAP DETAILS**  
 N.T.S.



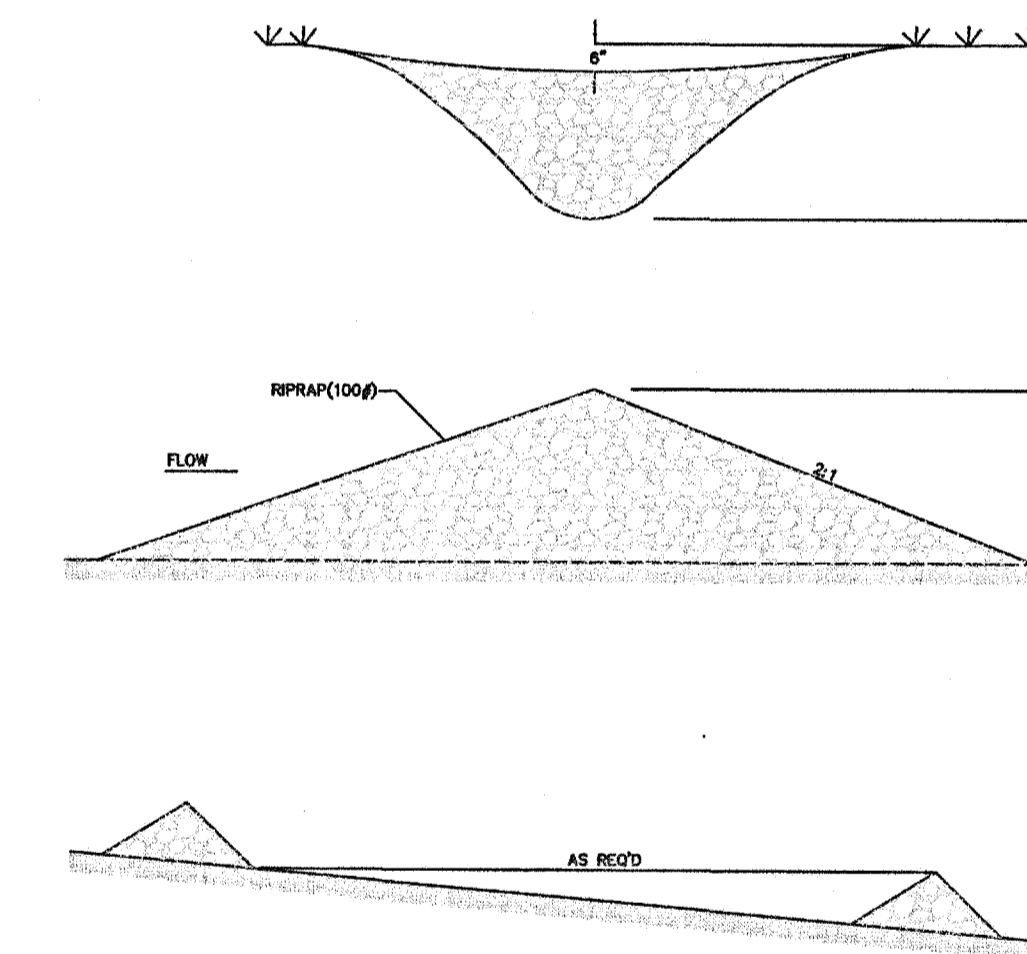
**WATTLE INSTALLATION CRITERIA:**

MAY BE INSTALLED FLAT ON THE GROUND OR ENTRENCHED.  
 MAY BE INSTALLED OVER BARE SOIL OR OVER EROSION CONTROL BLANKETS AND ON STEEP SLOPES.  
 SHOULD REMAIN IN PLACE UNTIL VEGETATION IS FULLY ESTABLISHED AND CAN SURVIVE ON ITS OWN.  
 TYPICALLY SECURED TO THE SUBGRADE SOIL USING A 1-INCH BY 1-INCH WOOD STAKE. STAKES SHOULD BE PLACED EVERY TWO FEET ACROSS THE LENGTH OF THE SEDIMENT TUBE. STAKES SHOULD BE INTERTWINED WITH OUTER MESH ON THE DOWNSTREAM SIDE AND DRIVEN INTO THE GROUND A MINIMUM OF 24 INCHES.  
 WATTLES PLACED IN SWALES OR CHANNEL BOTTOMS SHOULD CONTINUE UP THE SIDE SLOPES THREE FEET ABOVE THE ANTICIPATED HIGH WATER MARK AND PERPENDICULAR TO THE FLOW OF WATER.

**WATTLE INSTALLATION DETAIL**  
 N.T.S.



ISOMETRIC VIEW  
**CONSTRUCTION ENTRANCE DETAIL**  
 N.T.S.



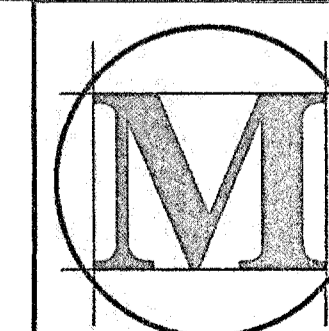
**CONSTRUCTION ENTRANCE DETAIL**  
 N.T.S.

- NOTES:**
- CHECK DAM SHALL BE NO MORE THAN 2 FEET IN HEIGHT
  - THE CENTER OF THE CHECK DAM SHALL BE AT LEAST 6 INCHES LOWER THAN THE OUTER EDGES.
  - COVER THE SWALE WITH THE CHECK DAM AND SET THE HEIGHT OF THE OUTER EDGES SO THAT RUNOFF WILL NOT FLOW AROUND EITHER END.
  - SPACE THE CHECK DAMS SO THAT THE CENTER OF EACH CHECK DAM IS THE SAME ELEVATION AS THE BOTTOM OF THE CHECK DAM IMMEDIATELY ABOVE IT.
  - USE 100# RIPRAP PLACED ON FILTER FABRIC.
  - CHECK FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 OF THE DAM'S ORIGINAL HEIGHT.
  - CHECK FOR EROSION AROUND EDGES OF DAM AND EXTEND DAM IF EROSION IS TAKING PLACE.
  - REMOVE DAM WHEN SURROUNDING AREA HAS BEEN STABILIZED. IMMEDIATELY STABILIZE AREA UNDER DAM.

| Revisions |          |                      |     |
|-----------|----------|----------------------|-----|
| #         | Date     | Nature               | By  |
| 1         | 11-18-14 | RESPONSE TO COMMENTS | RCM |
| 2         | 3-16-15  | RESPONSE TO COMMENTS | RCM |

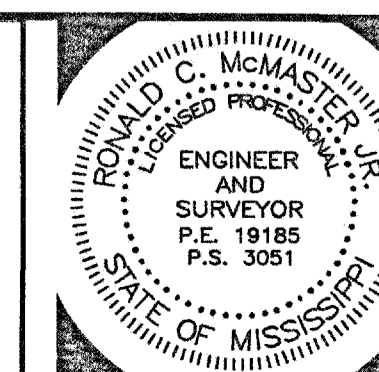
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|-------------|-----------|-------------|--------|
| Project No. | M-2227    | Designed By | R.C.M. |
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**BRIDGEWATER 11 ADDITION**



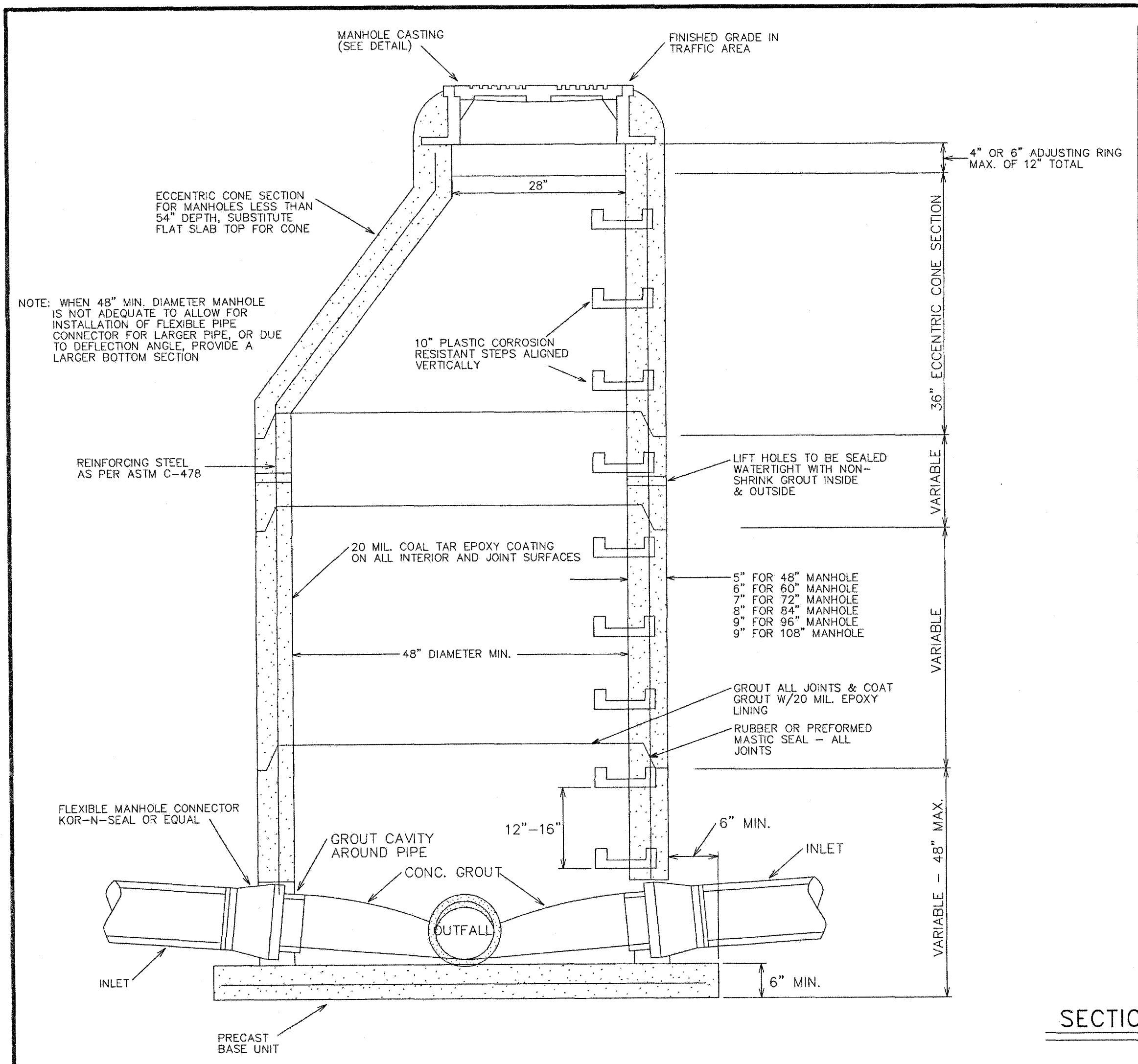
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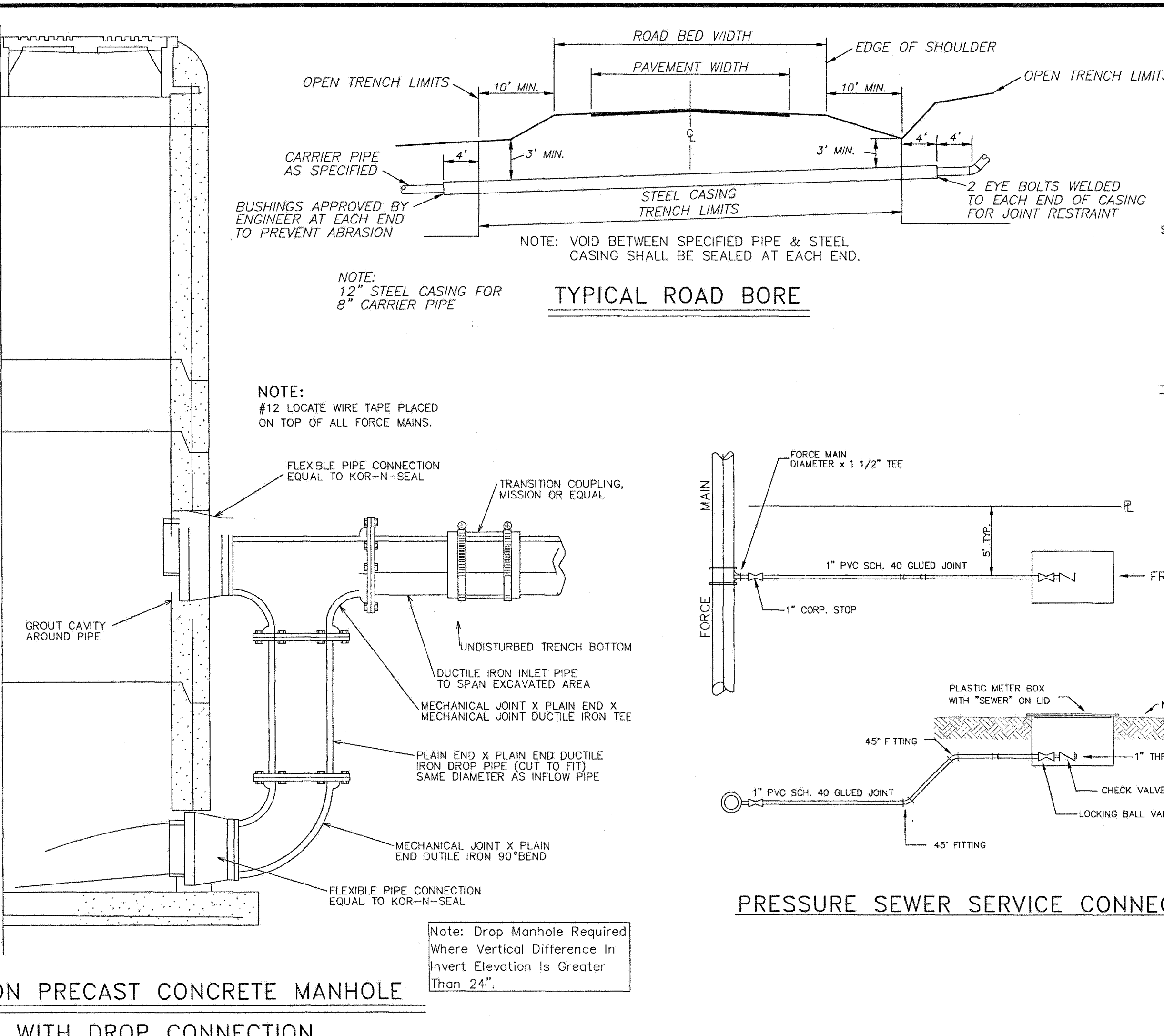


MISCELLANEOUS DETAILS

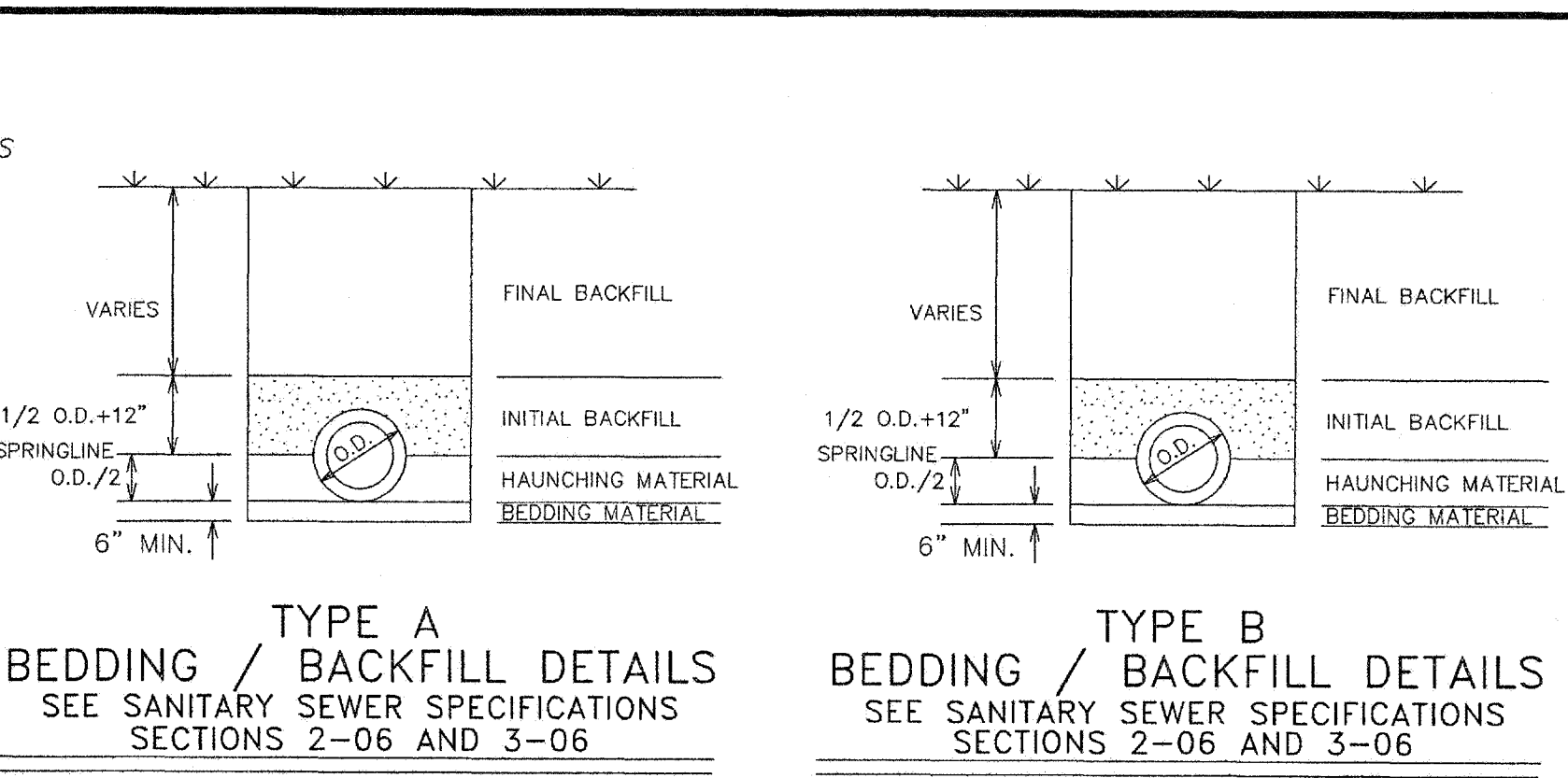




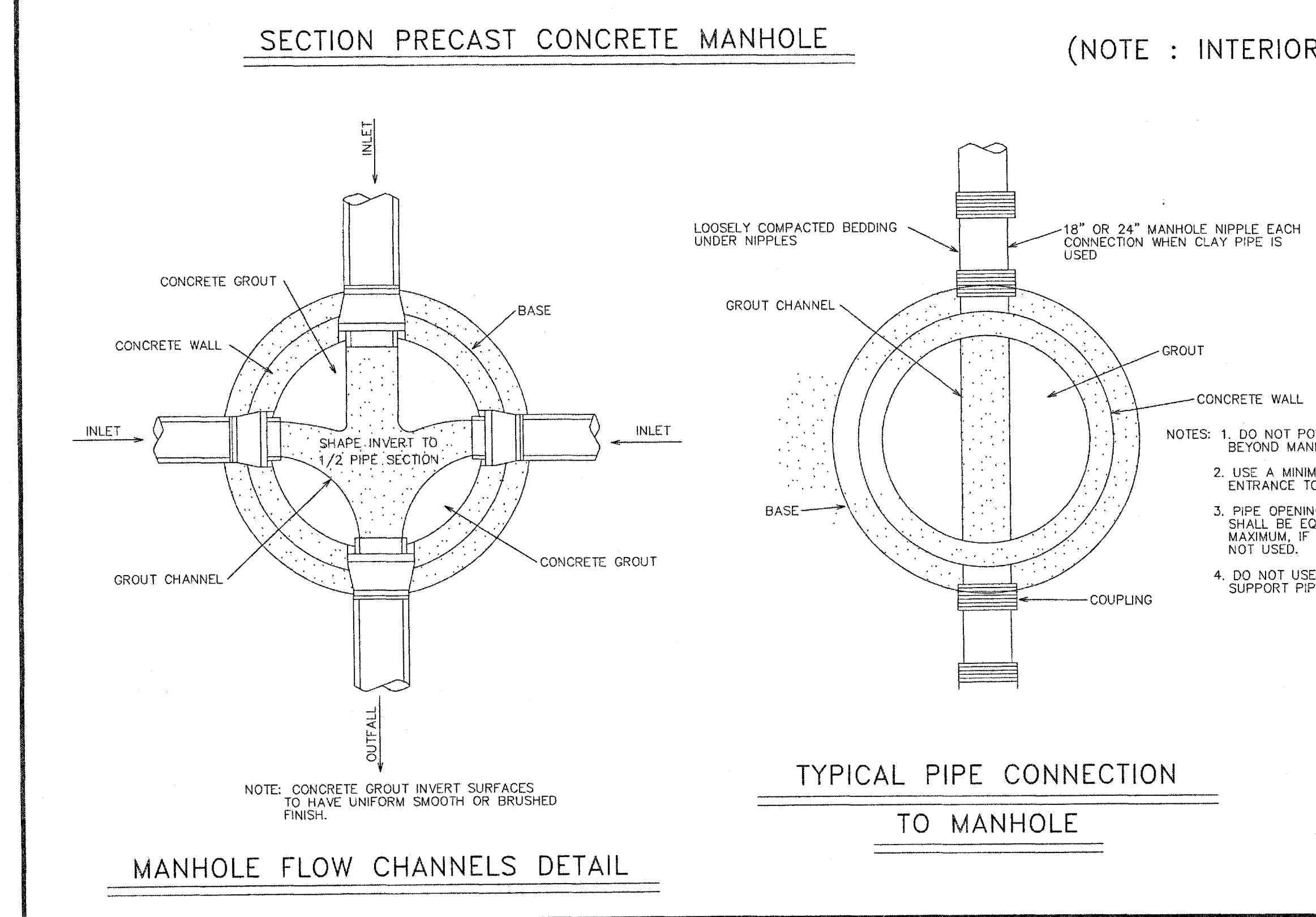
SECTION PRECAST CONCRETE MANHOLE



TYPICAL ROAD BORE



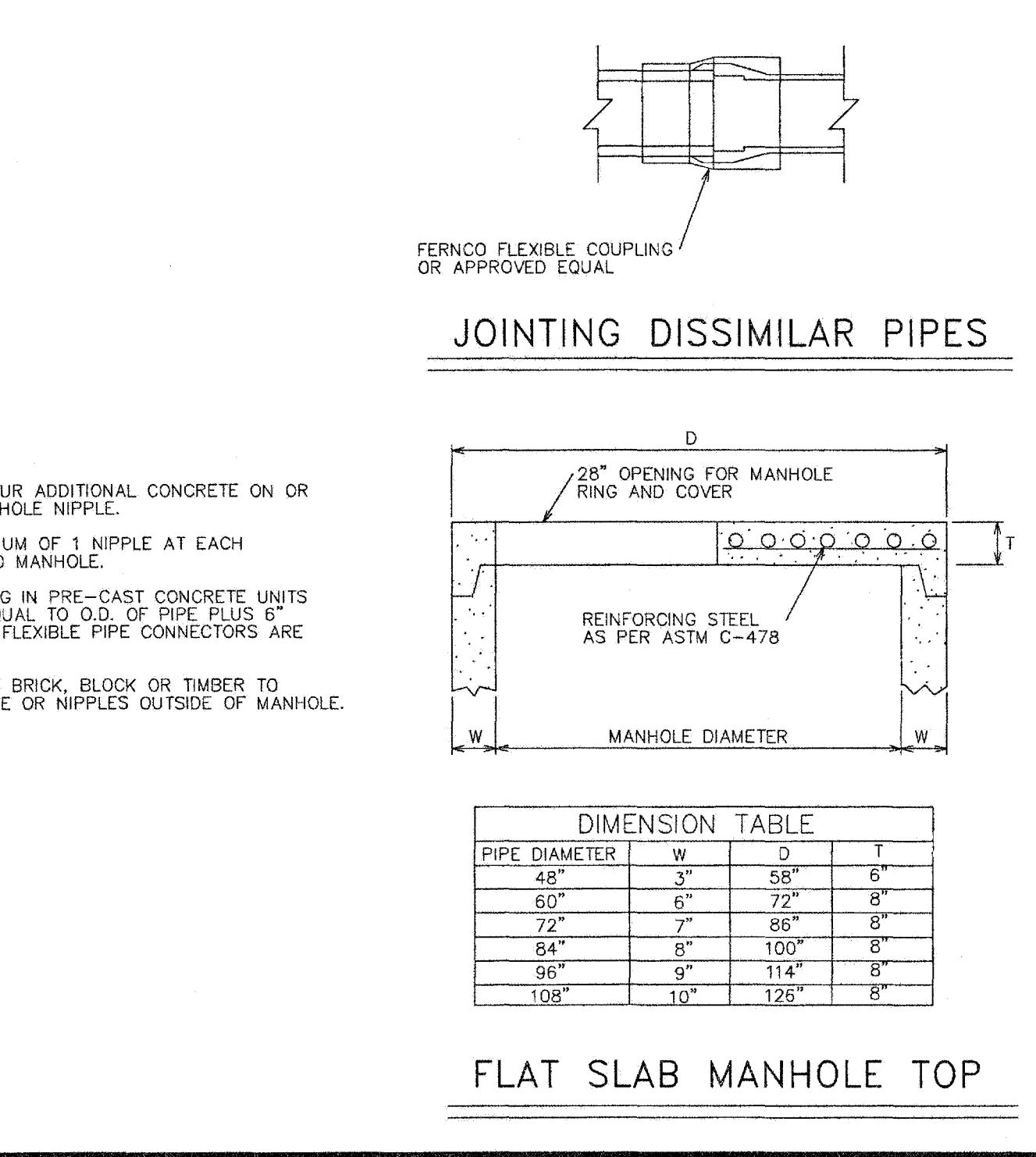
TYPE A BEDDING / BACKFILL DETAILS  
TYPE B BEDDING / BACKFILL DETAILS



MANHOLE FLOW CHANNELS DETAIL

TYPICAL PIPE CONNECTION TO MANHOLE

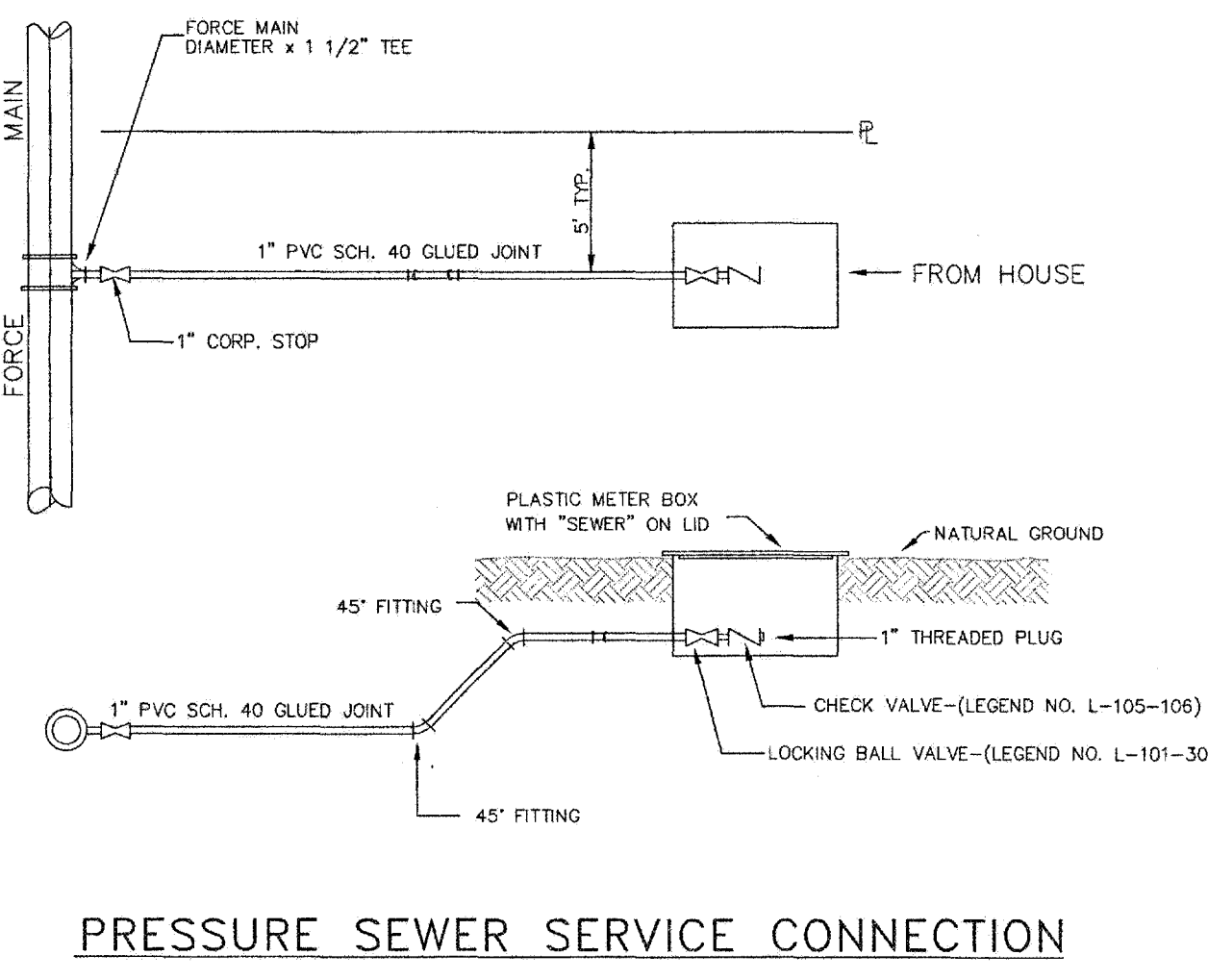
SECTION PRECAST CONCRETE MANHOLE WITH DROP CONNECTION (NOTE: INTERIOR STYLE DROP MANHOLE WILL BE ALLOWED)



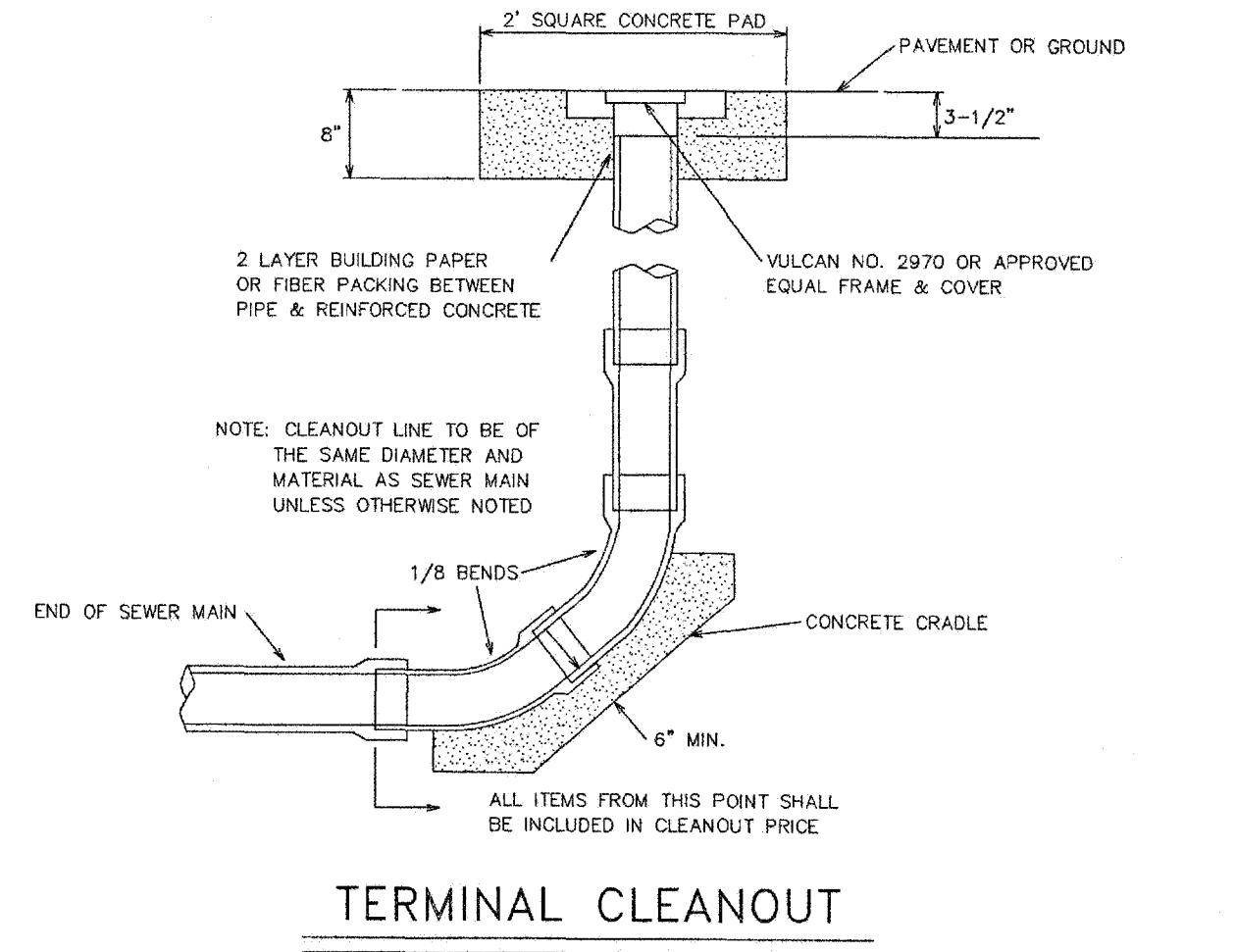
JOINTING DISSIMILAR PIPES

FLAT SLAB MANHOLE TOP

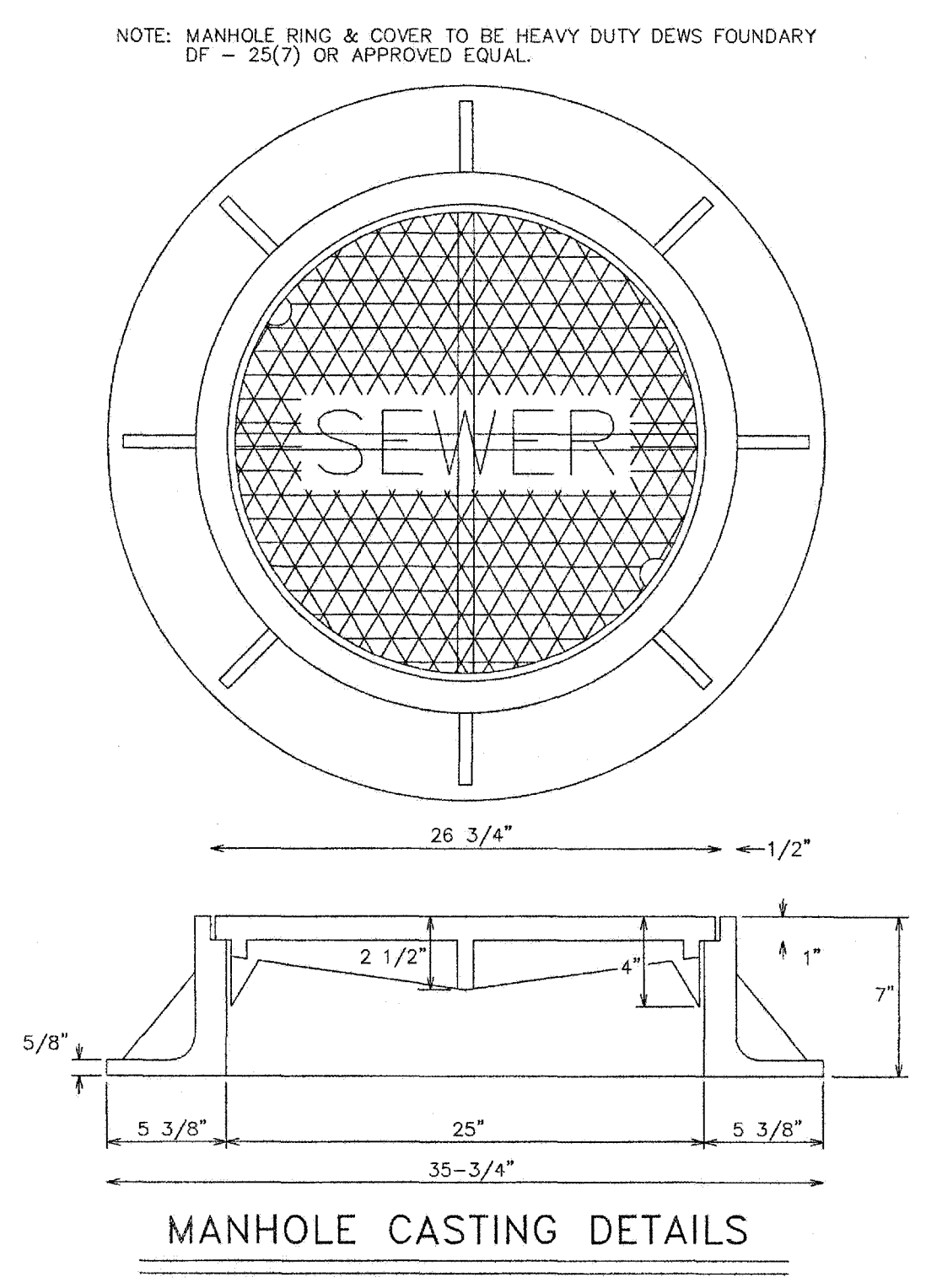
| PIPE DIAMETER | W   | D    | T  |
|---------------|-----|------|----|
| 48"           | 3"  | 58"  | 6" |
| 60"           | 6"  | 72"  | 8" |
| 72"           | 7"  | 86"  | 8" |
| 84"           | 8"  | 100" | 8" |
| 96"           | 9"  | 114" | 8" |
| 108"          | 10" | 128" | 8" |



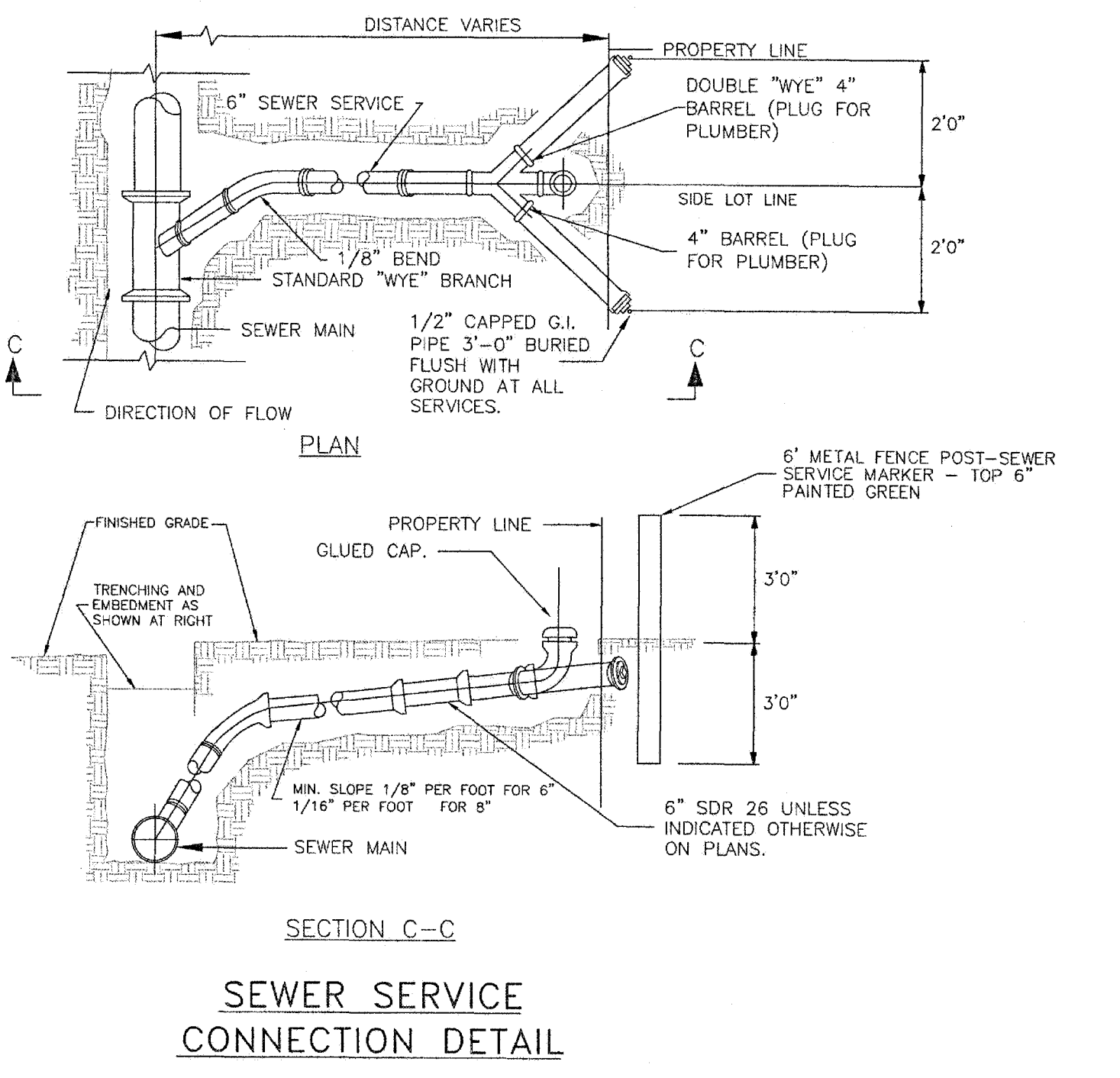
PRESSURE SEWER SERVICE CONNECTION



TERMINAL CLEANOUT



MANHOLE CASTING DETAILS

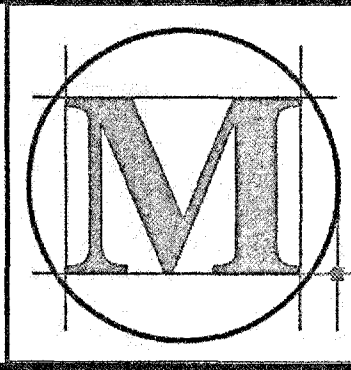


SEWER SERVICE CONNECTION DETAIL

| Revisions |          |                      |     |        |
|-----------|----------|----------------------|-----|--------|
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| 1         | 11-18-14 | RESPONSE TO COMMENTS | RCM | RCM    |
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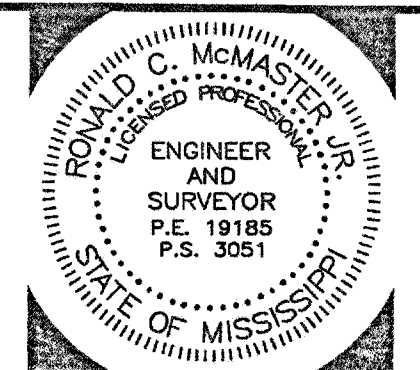
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| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

BRIDGEWATER 11 ADDITION

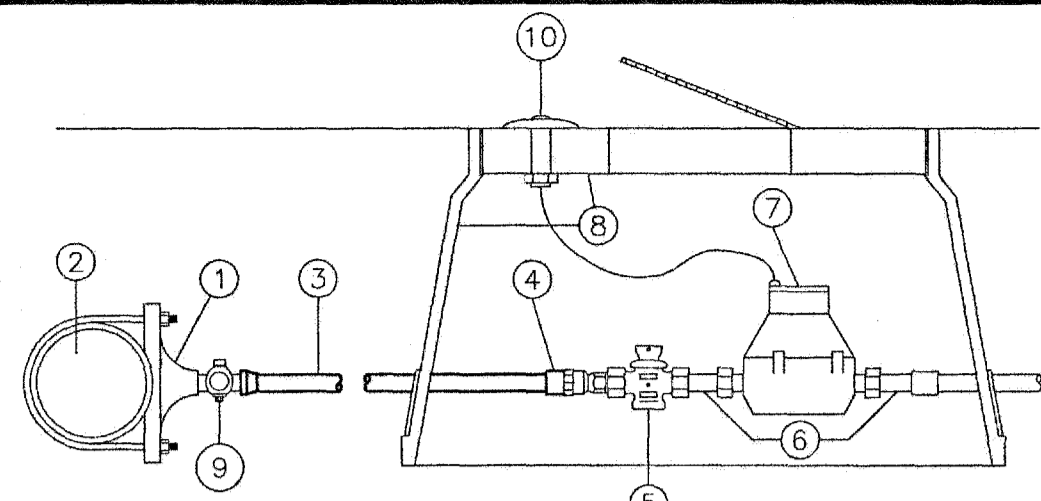


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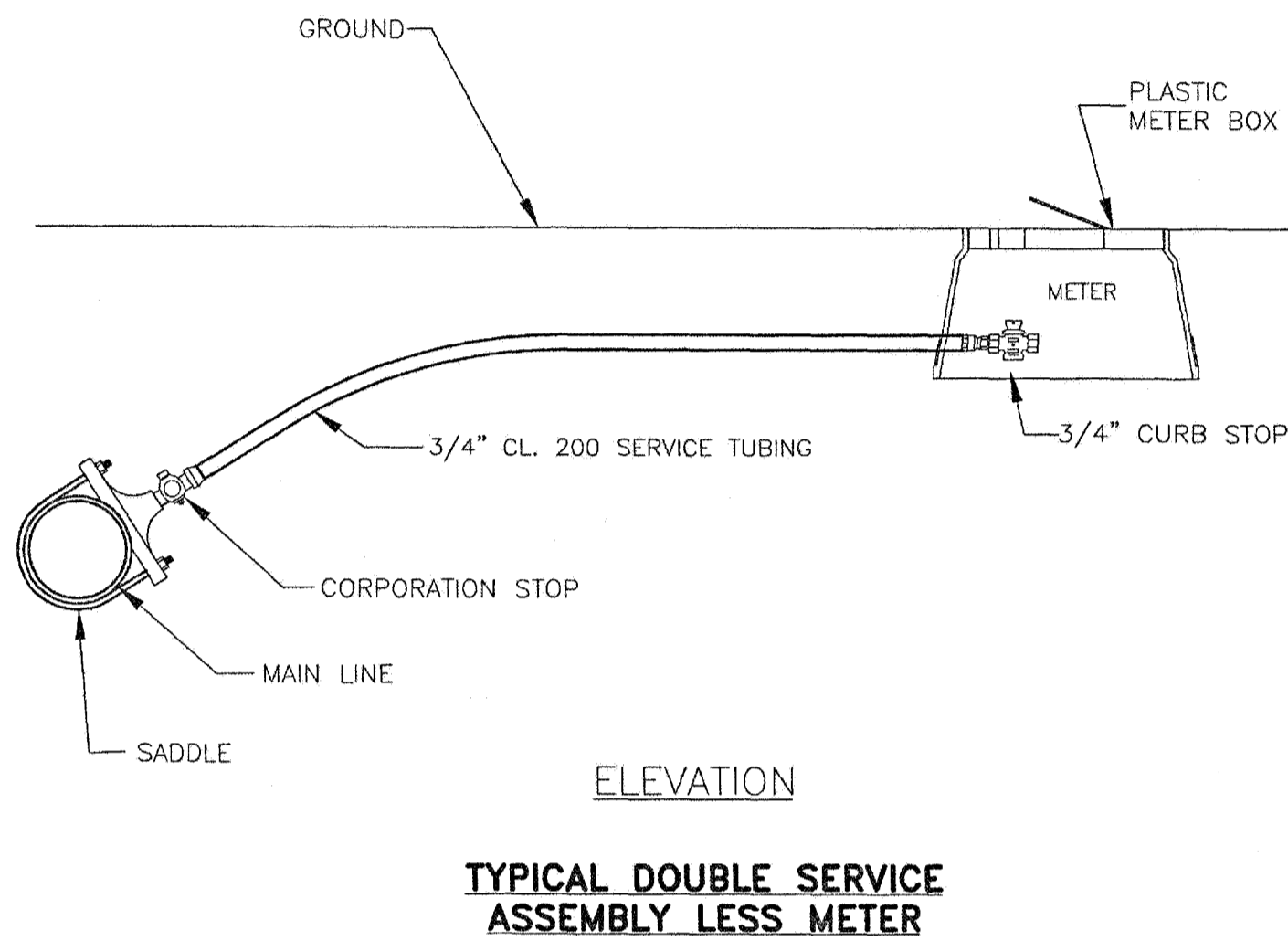
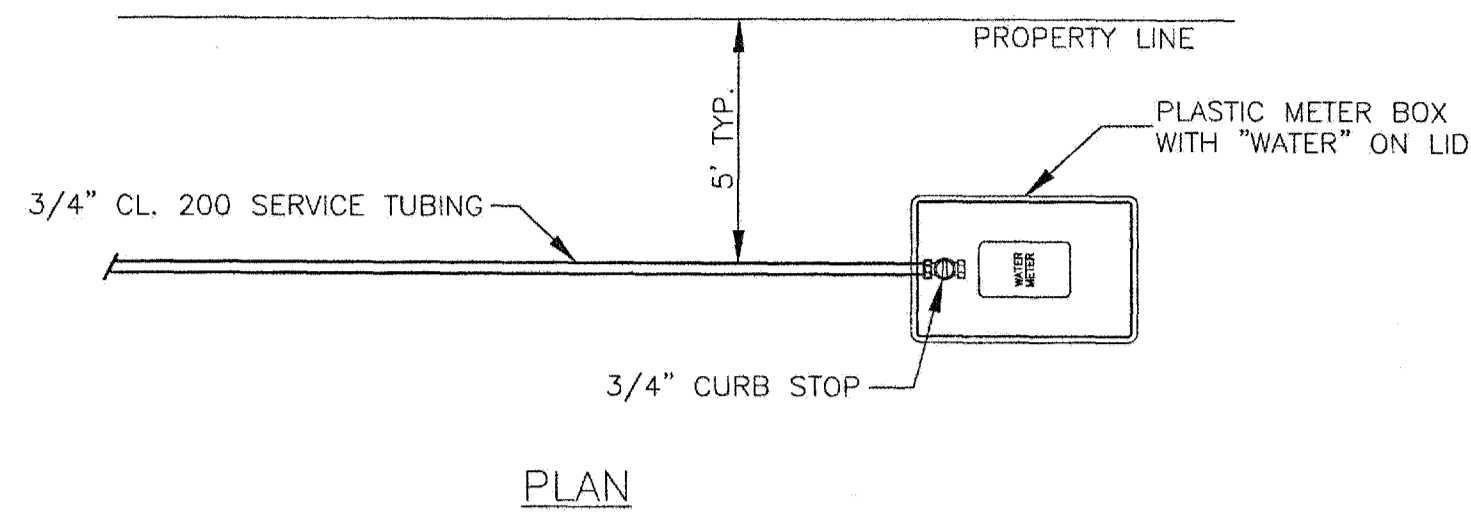


SEWER DETAILS

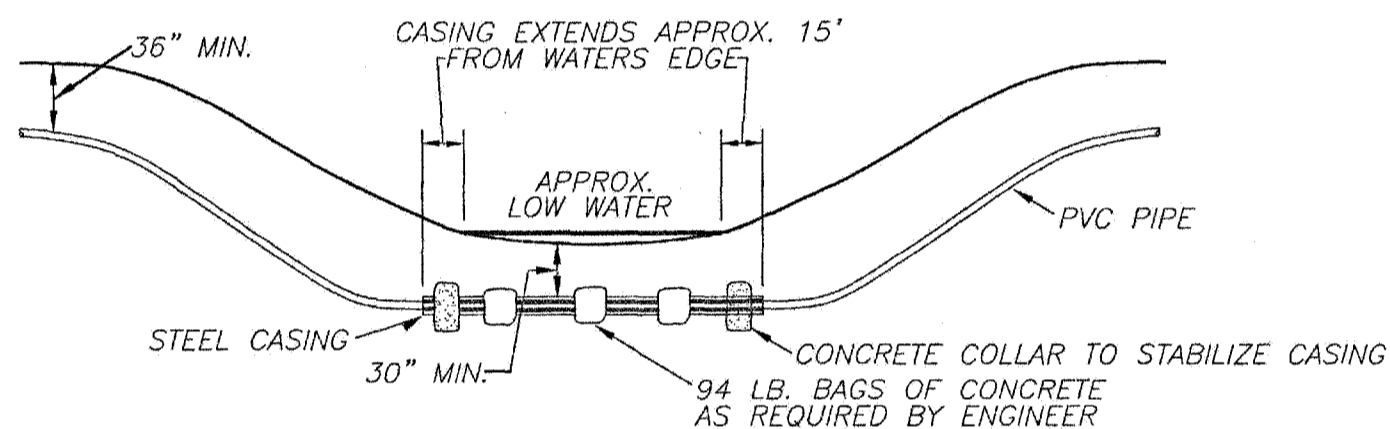


| ITEM NO. | SIZE AND DESCRIPTION                                  | MATERIAL SPECIFICATIONS                 |
|----------|---|---|
| 1        | SERVICE CLAMP   | FORD 202B                               |
| 2        | P.V.C. MAIN   | C-900 P.V.C., CLASS 150 MINIMUM         |
| 3        | SERVICE LINE W/ SPECIFIED P.V.C. CASING UNDER ROADWAY | POLYETHYLENE CL-200                     |
| 4        | TRANSITION FITTING P.V.C.                             | MUELLER H-12211                         |
| 5        | CURB STOP   | FORD B43-232W-NL                        |
| 6        | METER COUPLINGS                                       | MUELLER H-10891                         |
| 7        | WATER METER   | BADGER (TO BE INSTALLED BY CITY)        |
| 8        | STANDARD BLACK PLASTIC METER BOX WITH READER LID.     | NDS 12" STD BOX W/ 2 HOLES (TOUCH READ) |
| 9        | CORPORATION STOP                                      | FORD F1000-3-NL                         |
| 10       | TOUCH READ DEVICE                                     | (TO BE APPROVED BY CITY)                |

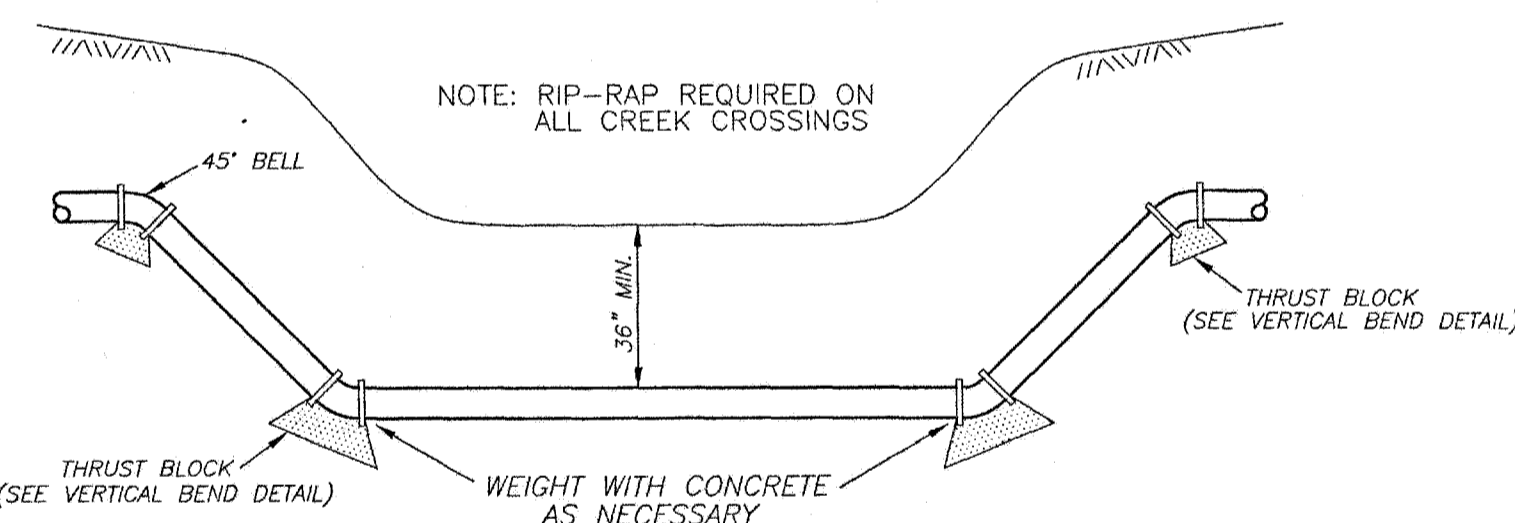
\*SEE PLANS FOR MATERIAL SIZES  
 \*ALL FITTINGS SHALL BE NO-LEAD (NL)  
**TYPICAL SERVICE ASSEMBLY**  
 CONNECTING TO PVC WATER MAIN



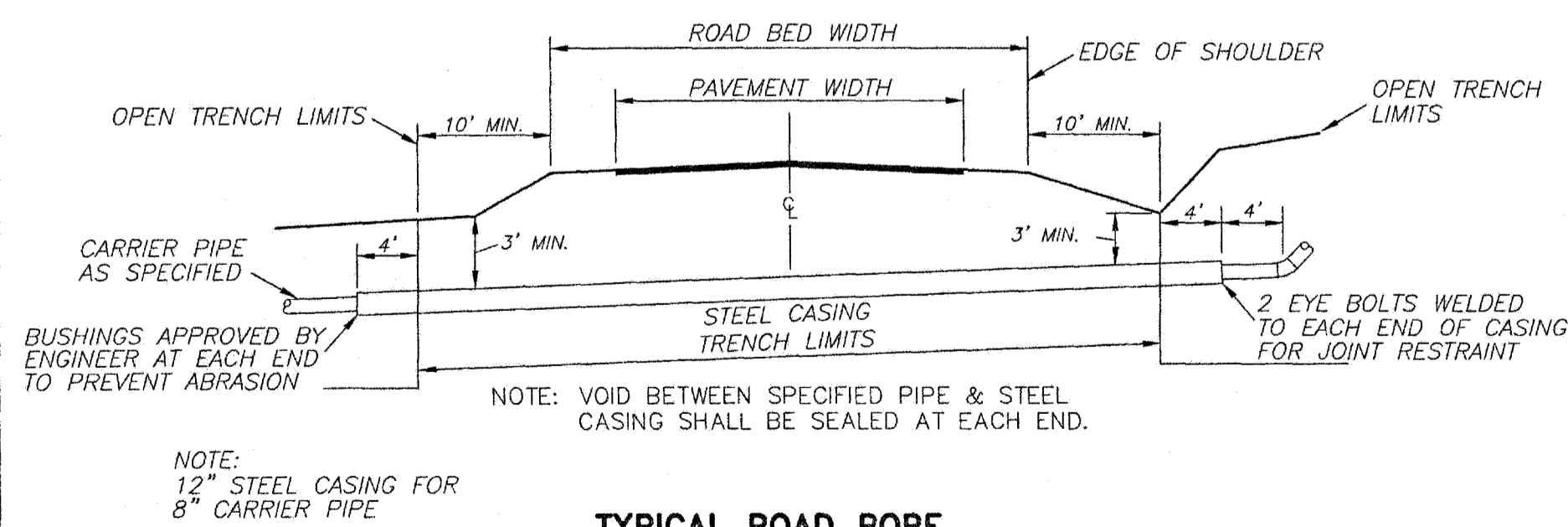
**TYPICAL DOUBLE SERVICE ASSEMBLY LESS METER**



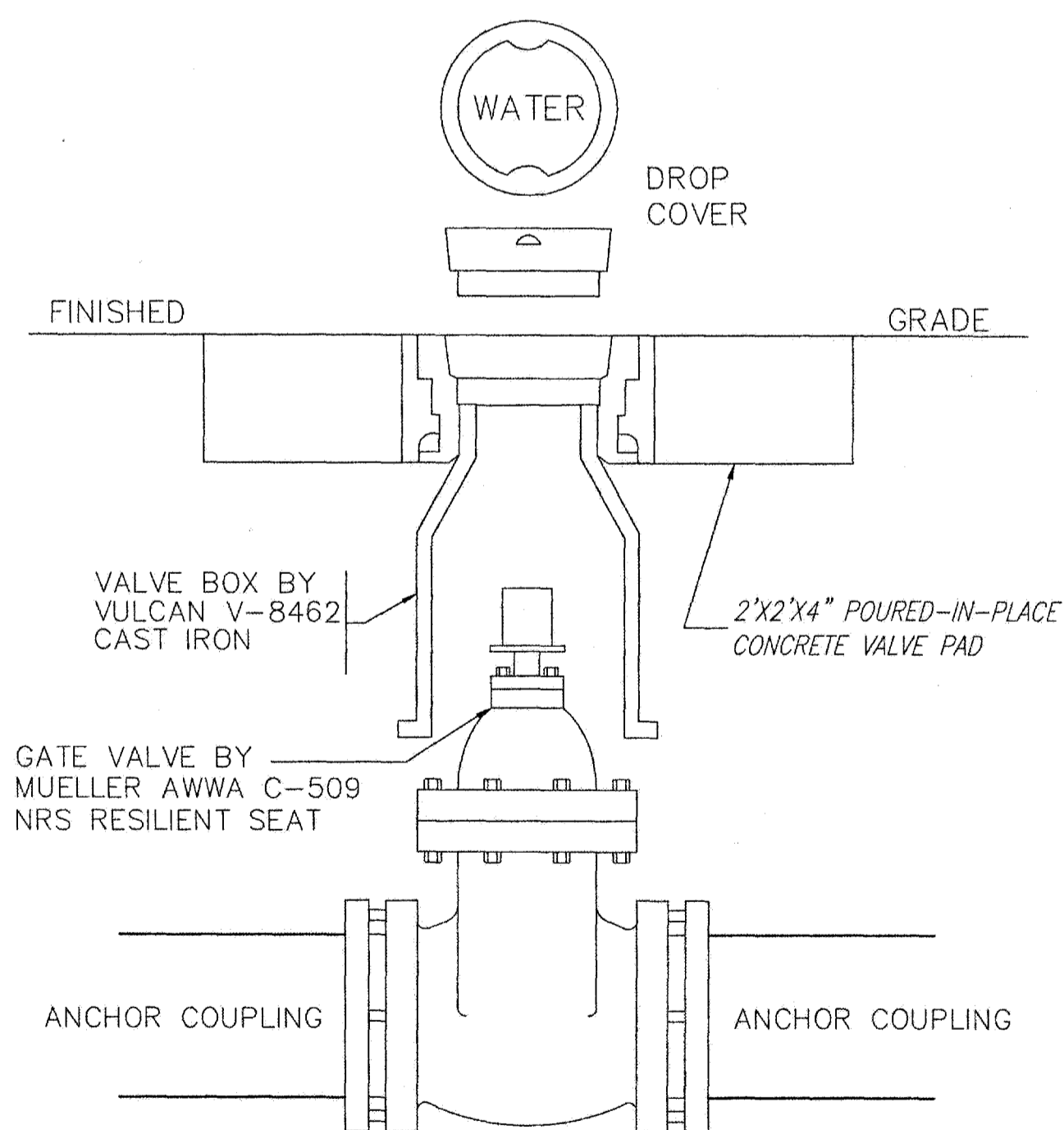
**TYPICAL CREEK CROSSING FOR P.V.C. PIPE**



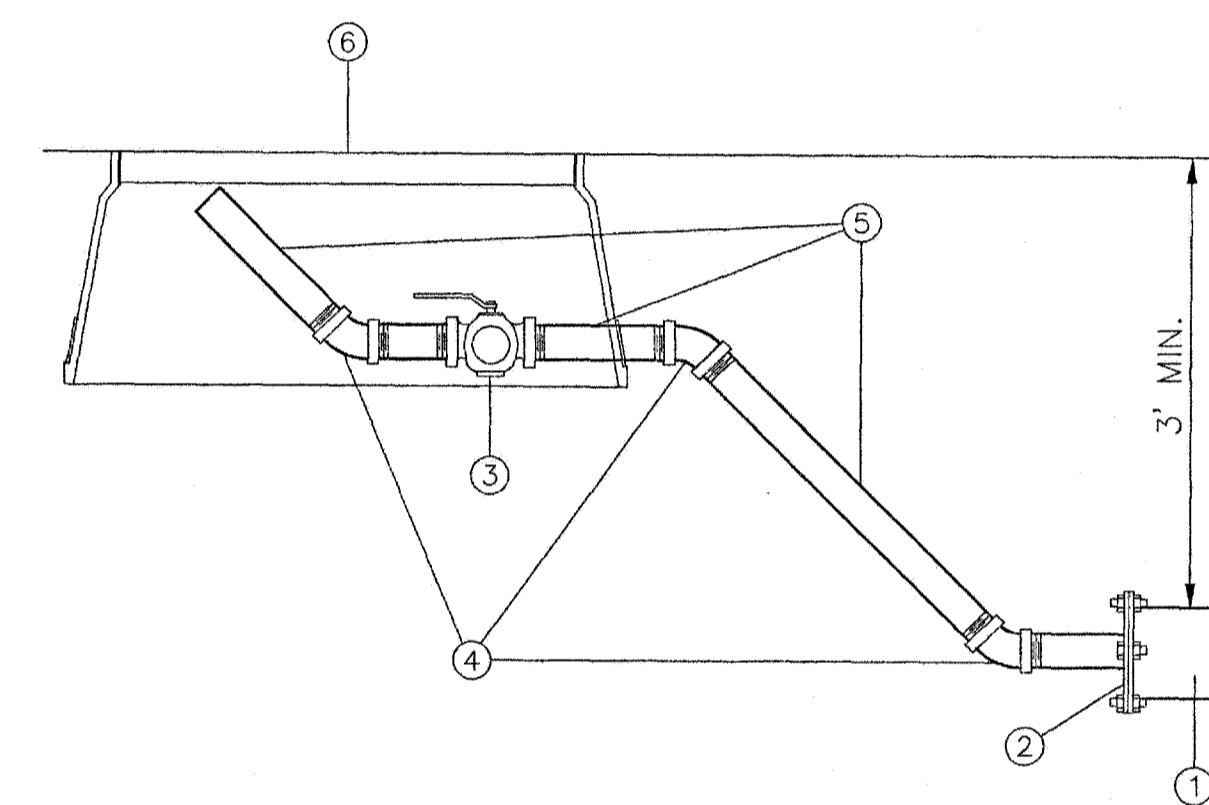
**TYPICAL CREEK CROSSING FOR DUCTILE IRON PIPE**



**TYPICAL ROAD BORE**

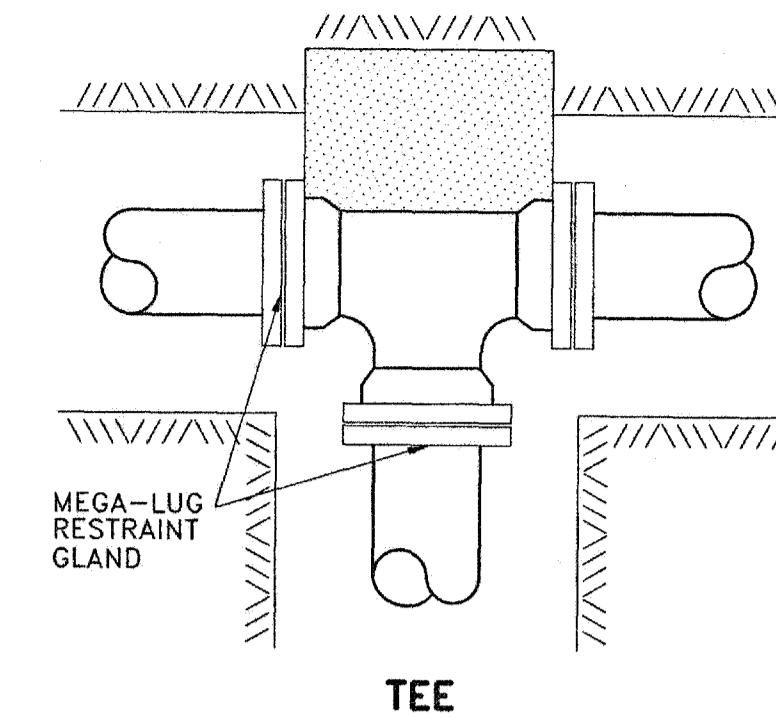


**TYPICAL GATE VALVE**

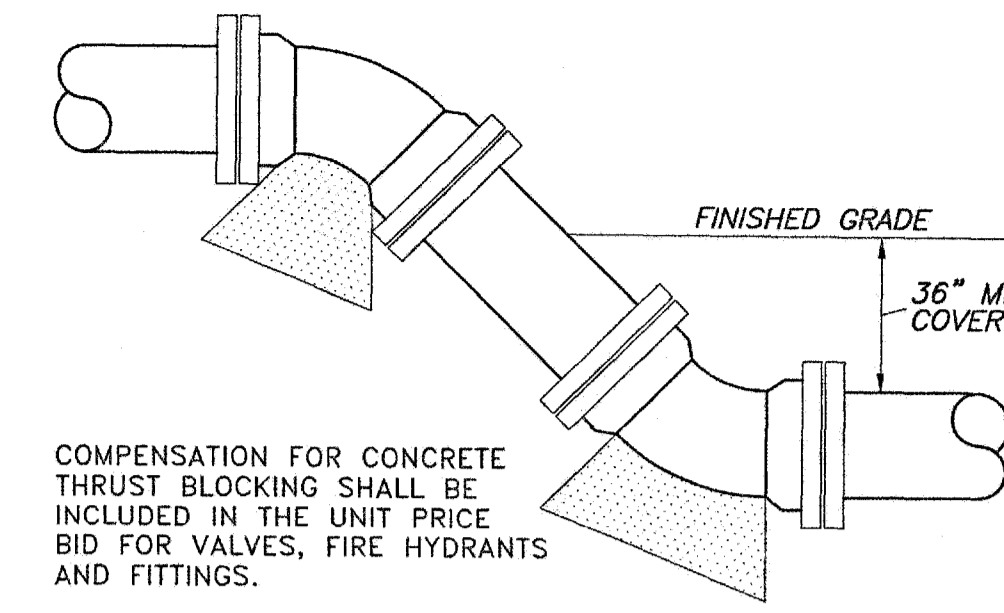


| ITEM NO. | SIZE AND DESCRIPTION                     | MATERIAL SPECIFICATIONS         |
|----------|--|---------------------------------|
| 1        | P.V.C. MAIN                              | C-900 P.V.C., CLASS 150 MINIMUM |
| 2        | DUCTILE IRON M.J. TAPPED CAP w/ MEGA-LUG | AS APPROVED                     |
| 3        | 2" LOCKING BALL VALVE - SCREWED ENDS     | MUELLER                         |
| 4        | 2" GALVANIZED BENDS - THREADED           | AS APPROVED                     |
| 5        | 1-1/2" GALVANIZED PIPE - THREADED        | AS APPROVED                     |
| 6        | OVERSIZED BLACK PLASTIC METER BOX        | NDS STD BOX                     |

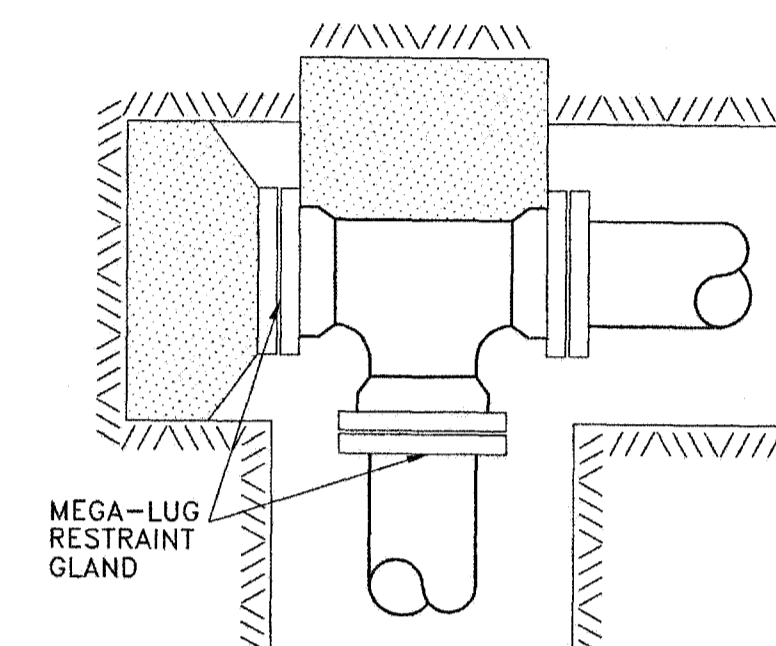
**TYPICAL 2" BLOW-OFF ASSEMBLY**



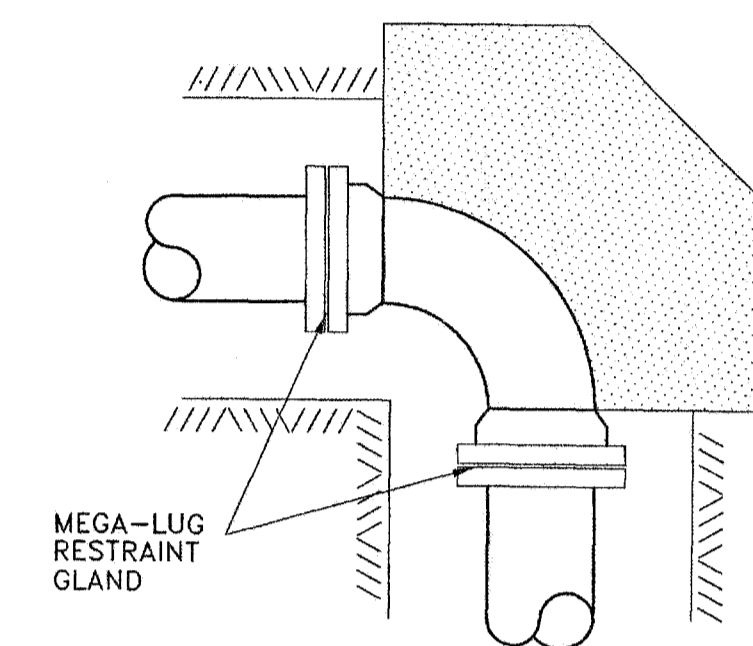
**TEE**



**VERTICAL BEND**



**PLUGGED TEE**



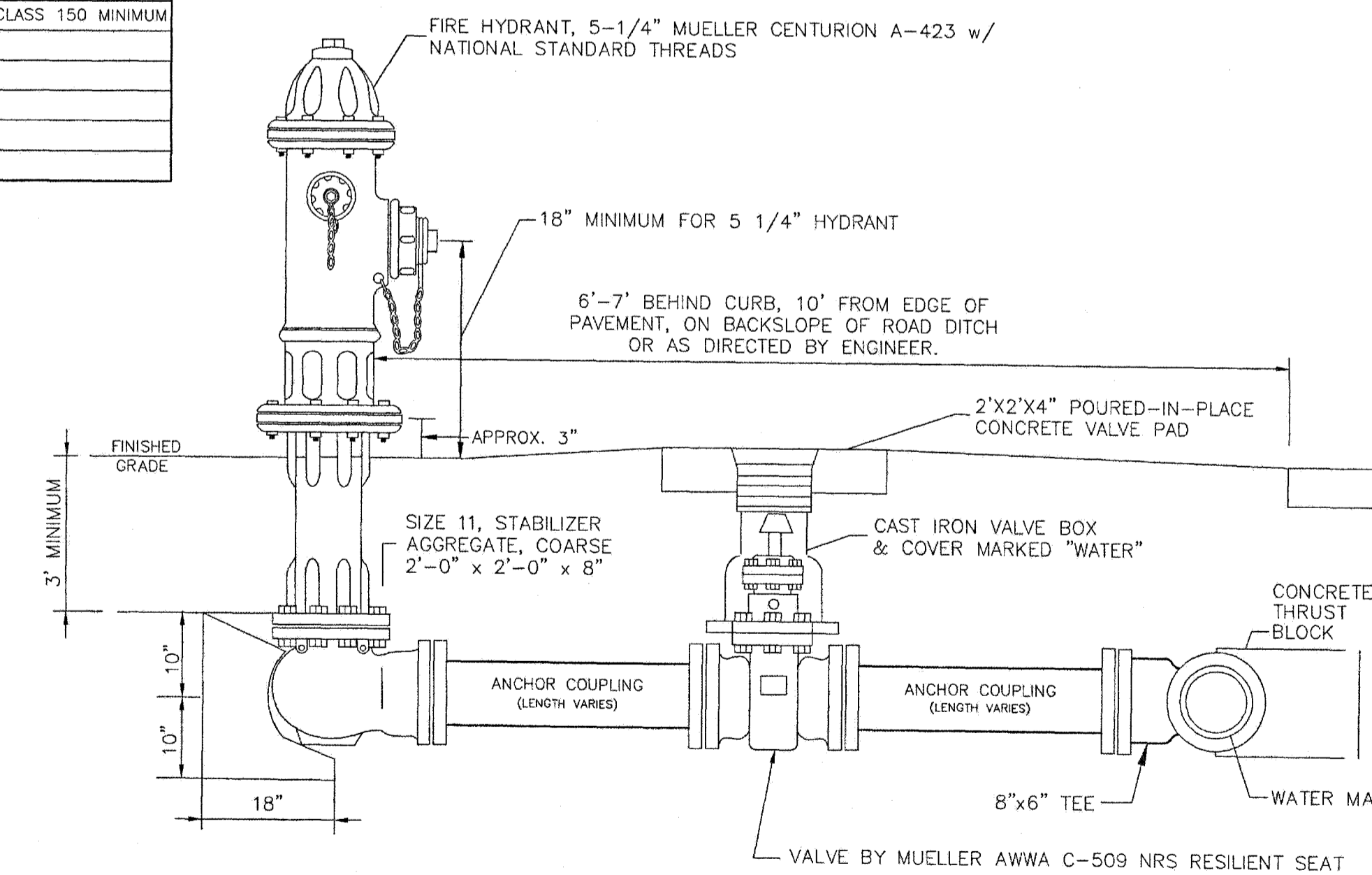
**90° BEND**

**TYPICAL BLOCKING ON WATER MAIN**  
 (3000 PSI CONCRETE REQUIRED)

**BEARING AREA IN SQ. FT.**

| NOMINAL PIPE DIAMETER (IN) | DEAD-END OR TEE | 90° BEND | 45° BEND    | 22-1/2° BEND | 11-1/4° BEND |
|----------------------------|-----------------|----------|-------------|--------------|--------------|
| 4                          | 2.0             | 2.0      | 2.0         | 2.0          | 2.0          |
| 6                          | 2.0             | 2.0      | 2.0         | 2.0          | 2.0          |
| 8                          | 3.0             | 3.0      | 2.0         | 2.0          | 2.0          |
| 12                         | 5.0             | 5.0      | 4.0         | 3.0          | 3.0          |
| 16                         | 8.0             | 12.0     | 6.0         | 4.0          | 4.0          |
| 4                          |                 |          | 6.0 (.22)   | 4.0 (.15)    | 4.0 (.15)    |
| 6                          |                 |          | 14.0 (.52)  | 6.0 (.22)    | 4.0 (.15)    |
| 8                          |                 |          | 27.0 (1.0)  | 9.0 (.33)    | 6.0 (.22)    |
| 12                         |                 |          | 68.0 (2.5)  | 22.0 (.80)   | 9.0 (.33)    |
| 16                         |                 |          | 90.0 (3.33) | 52.0 (1.9)   | 18.0 (.67)   |

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

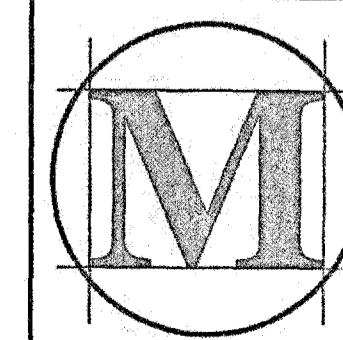


**FIRE HYDRANT ASSEMBLY**

| Revisions |          |     |       |                      |
|-----------|----------|-----|-------|----------------------|
| #         | Date     | By  | Appr. | Notes                |
| 1         | 11-18-14 | RCM | RCM   | RESPONSE TO COMMENTS |
| 2         | 3-16-15  | RCM | RCM   | RESPONSE TO COMMENTS |

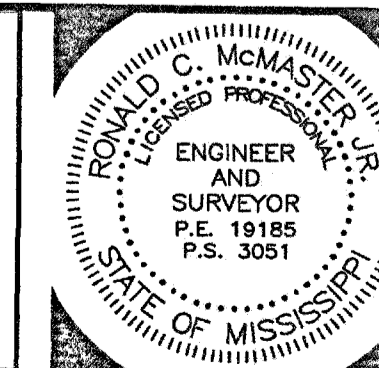
|             |           |             |        |
|-------------|-----------|-------------|--------|
| Project No. | M-2227    | Designed By | R.C.M. |
| Date        | 3/2/15    | Drawn By    | D.P.   |
| Scale       | SEE ABOVE | Checked By  | R.C.M. |

**BRIDGEWATER 11 ADDITION**



**McMASTER & ASSOCIATES, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS

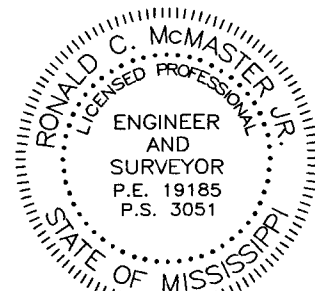
212 WATERFORD SQUARE  
 SUITE 300  
 MADISON, MS 39110  
 601.605.1090



WATER DETAILS

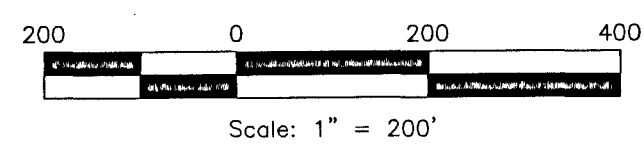
# BRIDGEWATER, ELEVEN-C

SITUATED IN SECTION 21, TOWNSHIP 7 NORTH, RANGE 1 EAST,  
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI



Class "B" Survey  
Bearings Based on Survey  
Grade GPS Observations  
Taken February 22, 2014  
(Geodetic North)

Our Job No. M-2227 Final Plat  
Date - October 5, 2015  
POB - Point of Beginning  
POC - Point of Commencement  
Iron Pin (1/2"x1/8" Iron Rebar)  
Easement Boundary  
Minimum Finished Floor Elevation

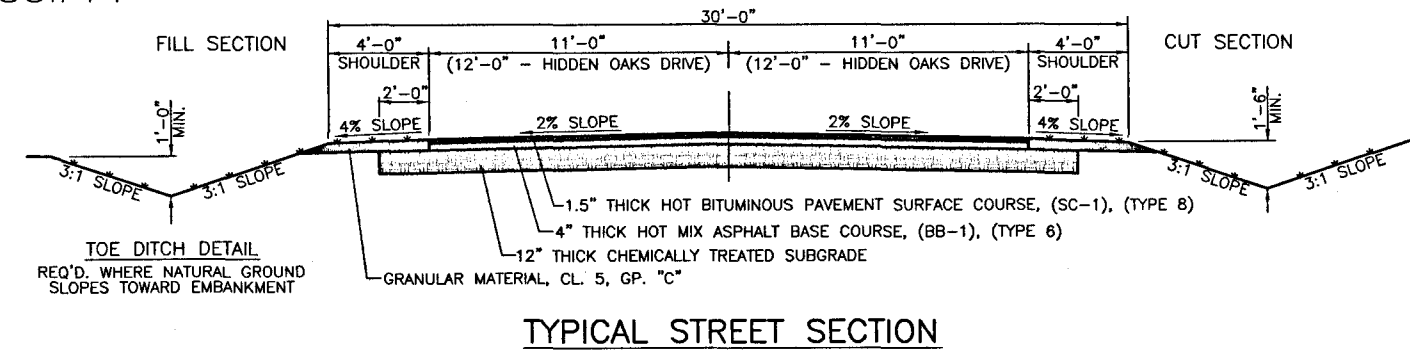


| Line # | Length | Direction        |
|--------|--------|------------------|
| L62    | 80.45  | S84° 34' 25.14"W |
| L63    | 109.34 | N87° 35' 50.09"W |
| L64    | 18.90  | N55° 30' 40.19"W |
| L65    | 9.95   | N38° 53' 36.02"W |

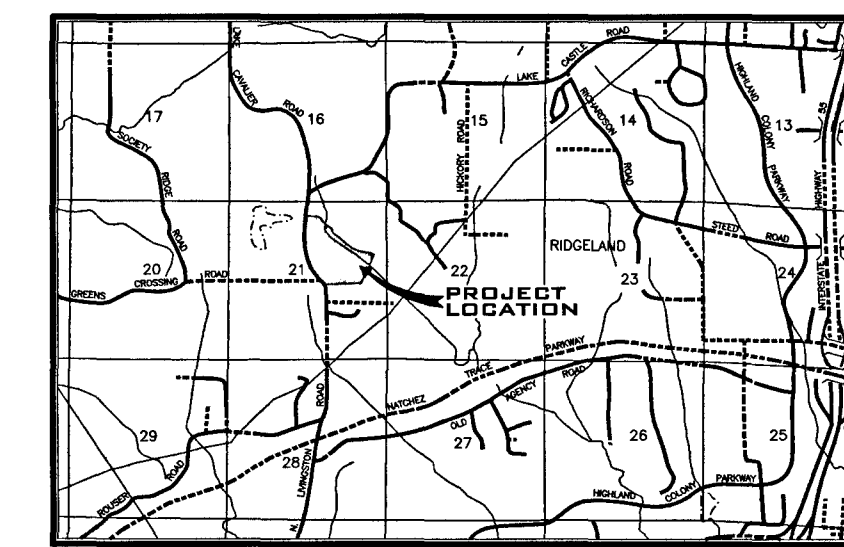
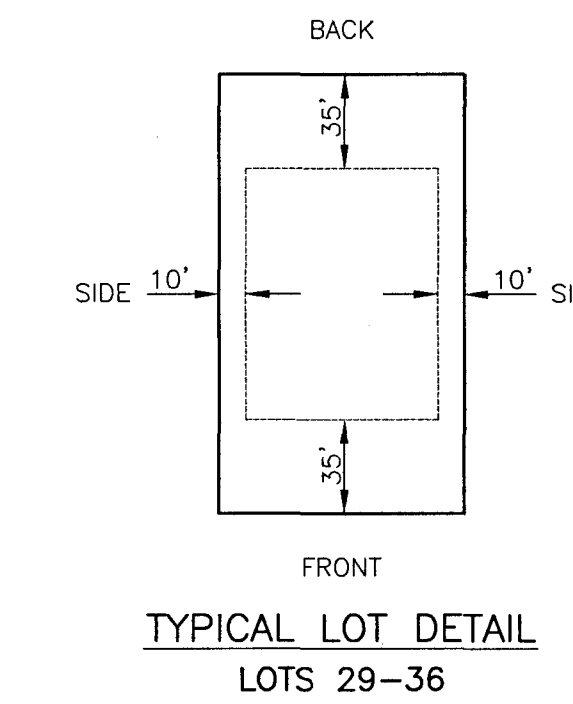
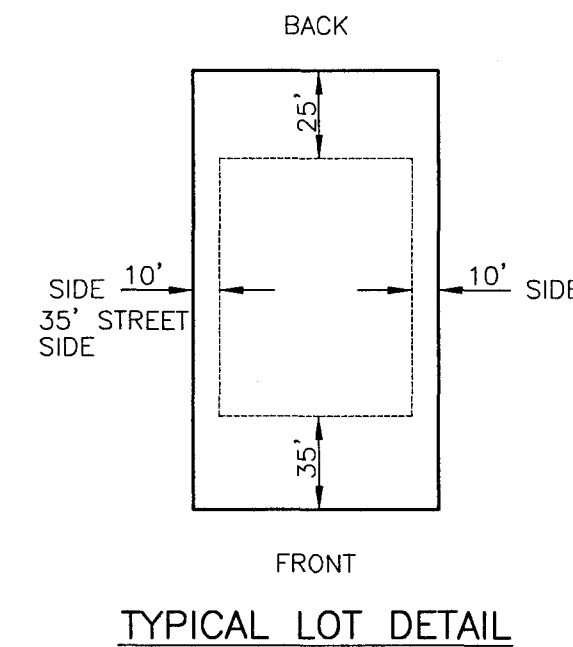
| FH No. | TOP OF HYD. ELEV. |
|--------|-------------------|
| FH 1   | 404.03'           |
| FH 2   | 390.86'           |
| FH 3   | 377.15'           |

**NOTES:**

- ALL STREETS AND STORM DRAINS ARE PRIVATE.
- THE RIGHT OF OPERATION AND MAINTENANCE OF ITS UTILITIES IS CONVEYED TO THE CITY OF RIDGELAND AS SHOWN IN THE CERTIFICATE OF OWNERSHIP.
- THE CITY OF RIDGELAND OR MADISON COUNTY ACCEPTS NO RESPONSIBILITY FOR UPKEEP, MAINTENANCE, OR FLOW OF WATER THROUGH ANY DRAINAGE EASEMENT, DRAINAGE STRUCTURE, OR WATER COURSE.
- THE CITY OF RIDGELAND OR MADISON COUNTY ACCEPTS NO RESPONSIBILITY FOR UPKEEP, MAINTENANCE OR REPAIR OF ANY STREET OR ROADWAY PLATTED HEREON.
- THIS PARCEL OF LAND IS SITUATED IN FLOOD ZONE X, WHICH IS AN AREA DETERMINED TO BE OUTSIDE OF THE 500-YEAR FLOOD PLAIN, ACCORDING TO THE F.I.A. COMMUNITY PANEL NOS. 28089C0555 F AND 28089C0565 F, MADISON CO., MISS. DATED MARCH 17, 2010.
- IRON PINS AT LOT CORNERS AS SHOWN ON THIS PLAT. FIELD WORK MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "B" SURVEY.
- STREETS, DRAINAGE IMPROVEMENTS, RETENTION POND, & OUTLET STRUCTURE SHALL BE PRIVATELY OWNED & MAINTAINED BY THE HOME OWNERS ASSOCIATION.
- DRAINAGE EASEMENTS SHALL BE PRIVATELY OWNED & MAINTAINED BY THE HOME OWNERS ASSOCIATION.
- ALL COMMON AREA SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE HOME OWNERS ASSOCIATION.



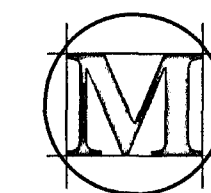
| Curve # | Length | Radius | Chord Direction | Chord Length |
|---------|--------|--------|-----------------|--------------|
| C106    | 30.13  | 460.00 | N88° 25' 33"W   | 30.13        |
| C107    | 41.14  | 460.00 | S87° 08' 08"W   | 41.12        |
| C108    | 46.46  | 340.00 | S88° 29' 18"W   | 46.42        |
| C109    | 100.92 | 165.00 | N70° 04' 30"W   | 99.36        |
| C110    | 78.82  | 165.00 | N38° 52' 05"W   | 78.07        |
| C111    | 170.21 | 485.00 | N35° 14' 02"W   | 169.34       |
| C112    | 97.81  | 485.00 | N58° 12' 03"W   | 97.64        |
| C113    | 105.07 | 240.00 | N51° 26' 08"W   | 104.24       |
| C114    | 232.03 | 800.00 | N47° 12' 08"W   | 231.22       |
| C115    | 210.09 | 711.68 | S26° 40' 03"W   | 209.33       |
| C116    | 250.43 | 651.68 | S23° 33' 32"W   | 248.89       |



**HYDRAULIC INFORMATION**

DRAINAGE AREA (PRE) - ±43.20 AC.  
DRAINAGE AREA (POST) - ±43.20 AC.  
100 YEAR RUNOFF (PRE) - 168.90 CFS  
100 YEAR RUNOFF (POST) - 190.51 CFS  
DETENTION OUTFLOW - 90.65 CFS  
DETENTION MAX. ELEV. - 377.95'

**TOTAL AREA**  
3,089,873.33 sq. ft  
70.9337 Acres



212 WATERFORD SQUARE  
SUITE 300  
MADISON, MS 39110  
601.665.1090

# BRIDGEWATER, ELEVEN-C

SITUATED IN SECTION 21, TOWNSHIP 7 NORTH, RANGE 1 EAST,  
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

## CERTIFICATE AND DEDICATION OF OWNER STATE OF MISSISSIPPI COUNTY OF MADISON

I, Barry Woodward, member of Augusta 185 LLC, a Mississippi Limited Liability Company, do hereby certify that the aforementioned is the owner of the land described in the foregoing certificate of Ronald C. McMaster, Jr., Professional Engineer and Surveyor, and that as a Member of said Augusta 185 LLC and owner, have caused the same to be subdivided and plotted as shown hereon, and hereby adopt this plot of said subdivision as the free act and deed of said limited liability company and owner, have dedicated all utilities to the public use, and have designated certain areas of land as private streets or drives intended for use by the lot owners in BRIDGEWATER, ELEVEN-C, and all other phases annexed as part of the Bridgewater II Community and subject to the Declaration of Covenants, Conditions, and Restrictions for the Bridgewater II Community applicable thereto. Any area designated as "Private Drive" or "Common Area" is not dedicated hereby for use by the general public, but is dedicated to the common use and enjoyment of the lot owners of BRIDGEWATER, ELEVEN-C as more fully provided for in the aforesaid Declaration of Covenants, Conditions, and Restrictions for the Bridgewater II Community, of record in Deed Book 2176 at Page 221, and the same being re-filed at Deed Book 2143 at Page 180, and as supplemented in Deed Book 2480 at Page 918, and any amendments or supplements thereto.

Notwithstanding anything to the contrary appearing in this Certificate or elsewhere on this plot, the undersigned does hereby grant and convey to the City of Ridgeland, or to the proper entity lawfully owning, operating, or maintaining any utility system in this subdivision, BRIDGEWATER, ELEVEN-C, a right of way and easement over, along, and across said streets or drives as shown on said plot or across any other area designated as a utility easement, for the purpose of constructing, servicing, maintaining, or repairing any of said utilities.

All utilities, utility easements, and other easements are as designated and defined hereon and in the above referenced Declaration, as the same may be amended from time to time, or as may be reserved or delineated in any conveyance by, or otherwise specified by, the undersigned.

WITNESS THE SIGNATURE OF THE UNDERSIGNED, this the \_\_\_\_\_ day of \_\_\_\_\_, 2016.

Augusta 185 LLC  
A Mississippi Limited Liability Company

By: \_\_\_\_\_  
Barry Woodward, Member

## ACKNOWLEDGMENT STATE OF MISSISSIPPI COUNTY OF MADISON

Personally appeared before me, the undersigned officer in and for the jurisdiction aforesaid, the within named Barry Woodward, who acknowledged to me that he is a Member of Augusta 185 LLC, a Mississippi Limited Liability Company, who acknowledged to me that he signed and delivered this plot and the certificates thereon, for and on behalf of, said Augusta 185 LLC, as his act and deed, after being authorized so to do, and Ronald C. McMaster, Jr., Professional Engineer and Surveyor, who acknowledged to me that he signed and delivered this plot and the certificates thereon as his own act and deed, on the day and year herein mentioned.

Given under my hand and seal of office this the \_\_\_\_\_ day of \_\_\_\_\_, 2016.

By: \_\_\_\_\_ D.C.  
Ronnie Lott, Chancery Clerk

## CITY PLANNING AND ENGINEER'S APPROVAL STATE OF MISSISSIPPI CITY OF RIDGELAND COUNTY OF MADISON

We have examined this plot and find that it conforms to all conditions set forth on the preliminary plot as approved by the Mayor and Board of Aldermen and thus recommend final approval.

Public Works Director \_\_\_\_\_ Chairman  
City Planning and Zoning Board

## CITY APPROVAL CERTIFICATE STATE OF MISSISSIPPI CITY OF RIDGELAND COUNTY OF MADISON

I hereby certify that this is a true copy and that this plot was approved by the Mayor and Board of Aldermen in session on the \_\_\_\_\_ day of \_\_\_\_\_, 2016.

ATTEST:

City Clerk \_\_\_\_\_ Mayor \_\_\_\_\_  
City of Ridgeland City of Ridgeland

## ENGINEER'S CERTIFICATE OF COMPLIANCE WITH SUBDIVISION REGULATIONS STATE OF MISSISSIPPI COUNTY OF MADISON

I hereby certify that the monuments and markers shown hereon are in place on the ground and the plan and plot shown and described hereon are a true and correct representation of a survey to the accuracy designated in the Subdivision Regulations for the City of Ridgeland, Madison County, Mississippi.

WITNESS MY SIGNATURE on the 25<sup>th</sup> day of January, 2016.

Ronald C. McMaster, Jr., P.E., P.S.

## PROFESSIONAL LAND SURVEYOR'S CERTIFICATE STATE OF MISSISSIPPI COUNTY OF MADISON

I, Ronald C. McMaster, Jr., Professional Engineer and Surveyor, do hereby certify that at the request of Augusta 185 LLC, the owner, have subdivided and plotted the following described land, as follows, to-wit:

A parcel or tract of land, containing 70.9337 acres (3,089,873.33 Sq. Ft.), more or less, lying and being situated in Section 21, 7N-R1E, Madison County, Mississippi, and being more particularly described as follows:

BEGINNING at an iron pin lying at the SW corner of Bridgewater Eleven-A, as referenced on map or plot of same in Plat Cabinet E at Slot 108-B of the Records of said Madison County, Mississippi, said plot being and lying 986.38' South and 1830.72' West of the NE corner of said Section 21, 7N-R1E, Madison County, Mississippi; run thence

Along the Southerly boundary of said Bridgewater Eleven-A to iron pins at each of the following calls;

25.81 feet along the arc of a 175.00 foot radius curve to the right, said arc having a 25.78 foot chord which bears South 38 degrees 00 minutes 21 seconds East; thence

196.28 feet along the arc of a 379.35 foot radius curve to the left, said arc having a 194.10 foot chord which bears South 48 degrees 36 minutes 13 seconds East; thence

44.99 feet along the arc of a 175.00 foot radius curve to the right, said arc having a 44.86 foot chord which bears South 56 degrees 03 minutes 44 seconds East; thence

South 48 degrees 41 minutes 53 seconds East for a distance of 297.82 feet to an iron pin; thence

41.71 feet along the arc of a 575.00 foot radius curve to the right, said arc having a 41.70 foot chord which bears South 46 degrees 37 minutes 12 seconds East; thence

260.93 feet along the arc of a 1,112.97 foot radius curve to the left, said arc having a 260.33 foot chord which bears South 15 degrees 15 minutes 30 seconds East to the NW corner of Lot 469 of said Bridgewater Eleven-A; thence

Leaving the Southerly boundary of said Bridgewater Eleven-A, run along the Northerly boundary of Lot 469, Lot 468 and Lot 467 of said Bridgewater Eleven-A to iron pins at each of the following calls;

324.44 feet along the arc of a 1,112.97 foot radius curve to the left, said arc having a 323.29 foot chord which bears South 66 degrees 19 minutes 33 seconds East; thence

230.08 feet along the arc of a 1,112.97 foot radius curve to the left, said arc having a 229.67 foot chord which bears South 80 degrees 35 minutes 57 seconds East; thence

102.30 feet along the arc of a 475.00 foot radius curve to the right, said arc having a 102.10 foot chord which bears South 80 degrees 21 minutes 06 seconds East; thence

127.48 feet along the arc of a 475.00 foot radius curve to the right, said arc having a 127.10 foot chord which bears South 66 degrees 29 minutes 35 seconds East; thence

South 58 degrees 48 minutes 16 seconds East for a distance of 18.11 feet; thence

Leaving the Northerly boundary of Lot 467 of said Bridgewater Eleven-A, run South 23 degrees 47 minutes 05 seconds West for a distance of 200.10 feet to the above referenced Southerly boundary of said Bridgewater Eleven-A, said point also lying on the Northerly boundary of the Augusta Properties, LLC property as described in Deed Book 2464 at Page 355 of the Records of said Madison County, Mississippi; thence

Leaving the Southerly boundary of said Bridgewater Eleven-A and the Northerly boundary of said Augusta Properties, LLC, run South 23 degrees 47 minutes 05 seconds West for a distance of 528.91 feet to an iron pin lying on the Northerly boundary of the Thomas W. Bobbitt property as described in Deed Book 3060 at Page 116 of the Records of said Madison County, Mississippi; thence

Leaving the Northerly boundary of said Thomas W. Bobbitt property, run South 23 degrees 47 minutes 05 seconds West for a distance of 334.39 feet to an iron pin lying on the Southerly boundary of the Tom Bobbitt property as described in Deed Book 2744 at Page 520 of the Records of said Madison County, Mississippi; thence

South 89 degrees 30 minutes 16 seconds West along the Southerly boundary of said Tom Bobbitt property, for a distance of 304.94 feet to an iron pin at the SW corner, thereof, said point also lying at the SE corner of the Walter L. Jefferson property as described in Deed Book 2535 at Page 766 of the Records of said Madison County, Mississippi; thence

South 89 degrees 30 minutes 16 seconds West along the Southerly boundary of said Walter L. Jefferson property for a distance of 900.95 feet, more or less, to the Easterly Right-Of-Way of Livingston Road (State Aid Project No. SAP-45(12)), as it existed in October, 2015; thence

Along the Easterly Right-Of-Way of said Livingston Road to iron pins at each of the following calls;

188.39 feet along the arc of a 612.96 foot radius curve to the left, said arc having a 187.65 foot chord which bears North 42 degrees 30 minutes 13 seconds West; thence

15.52 feet along the arc of a 612.96 foot radius curve to the left, said arc having a 15.52 foot chord which bears North 52 degrees 02 minutes 01 seconds West; thence

North 52 degrees 45 minutes 31 seconds West for a distance of 117.03 feet; thence

Continue North 52 degrees 45 minutes 31 seconds West for a distance of 38.60 feet; thence

108.29 feet along the arc of a 532.96 foot radius curve to the right, said arc having a 108.10 foot chord which bears North 46 degrees 56 minutes 16 seconds West; thence

75.48 feet along the arc of a 532.96 foot radius curve to the right, said arc having a 75.42 foot chord which bears North 37 degrees 03 minutes 35 seconds West; thence

11.94 feet along the arc of a 532.96 foot radius curve to the right, said arc having a 11.94 foot chord which bears North 32 degrees 21 minutes 39 seconds West; thence

North 44 degrees 04 minutes 24 seconds East for a distance of 304.83 feet to an iron pin; thence

63.01 feet along the arc of a 60.00 foot radius curve to the right, said arc having a 60.16 foot chord which bears North 12 degrees 14 minutes 15 seconds West feet to an iron pin; thence

94.76 feet along the arc of a 60.00 foot radius curve to the right, said arc having a 85.21 foot chord which bears North 63 degrees 05 minutes 32 seconds East feet to an iron pin; thence

17.91 feet along the arc of a 20.00 foot radius curve to the left, said arc having a 17.32 foot chord which bears North 82 degrees 40 minutes 36 seconds East feet to an iron pin; thence

North 57 degrees 01 minutes 04 seconds East for a distance of 74.05 feet to an iron pin; thence

North 45 degrees 25 minutes 31 seconds West for a distance of 252.08 feet to an iron pin; thence

South 66 degrees 11 minutes 33 seconds West for a distance of 296.86 feet to an iron pin; thence

West for a distance of 51.15 feet; thence

North 17 degrees 24 minutes 31 seconds West for a distance of 167.09 feet; thence

Continue North 17 degrees 24 minutes 31 seconds West for a distance of 69.19 feet; thence

548.41 feet along the arc of a 1392.39 foot radius curve to the right, said arc having a 544.87 foot chord which bears North 06 degrees 07 minutes 31 seconds West; thence

North 05 degrees 09 minutes 29 seconds East for a distance of 737.78 feet; thence

Leaving the Easterly Right-Of-Way of said Livingston Road, run to iron pins at each of the following calls;

South 87 degrees 36 minutes 22 seconds East for a distance of 301.41 feet; thence

272.39 feet along the arc of a 250.00 foot radius curve to the right, said arc having a 259.11 foot chord which bears South 06 degrees 23 minutes 35 seconds East; thence

272.97 feet along the arc of a 402.95 foot radius curve to the left, said arc having a 267.78 foot chord which bears South 44 degrees 35 minutes 11 seconds East; thence

212.84 feet along the arc of a 449.00 foot radius curve to the right, said arc having a 210.85 foot chord which bears South 49 degrees 54 minutes 53 seconds East to a point on the Westerly boundary of said Bridgewater Eleven-A; thence

Along said Westerly boundary of said Bridgewater Eleven-A, 50.12 feet along the arc of a 375.00 foot radius curve to the right, said arc having a 50.08 foot chord which bears South 50 degrees 37 minutes 04 seconds West to the POINT OF BEGINNING of the above described parcel or tract of land.

Witness my signature, this the 25<sup>th</sup> day of January, 2016.

Ronald C. McMaster, Jr., Professional Engineer and Surveyor  
Mississippi P.S. No. 6051

## CERTIFICATE OF COMPARISON STATE OF MISSISSIPPI COUNTY OF MADISON

We, Ronnie Lott, Chancery Clerk and Ronald C. McMaster, Jr., Professional Engineer and Surveyor, do hereby certify that we have carefully compared this plot of BRIDGEWATER, ELEVEN-C with the original thereof, as made by Ronald C. McMaster, Jr., Professional Engineer and Surveyor, and find it to be a true and correct copy of said map or plot.

Given under my hand and seal of office this the \_\_\_\_\_ day of \_\_\_\_\_, 2016.

Ronald C. McMaster, Jr., P.E., P.S. Ronnie Lott, Chancery Clerk

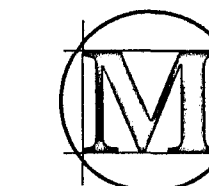
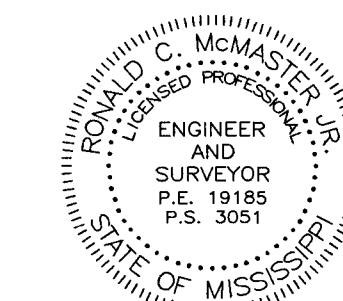
By: \_\_\_\_\_ D.C.

## FILING AND RECORDATION STATE OF MISSISSIPPI COUNTY OF MADISON

I, Ronnie Lott, Chancery Clerk in and for said County and State, do hereby certify that the final plot of BRIDGEWATER ELEVEN-C was filed for record in my office on this the \_\_\_\_\_ day of \_\_\_\_\_, 2016, and was duly recorded in Plat Cabinet \_\_\_\_\_ at Slide \_\_\_\_\_ of the records of maps and plats of land in Madison County, Mississippi.

Given under my hand and seal of office this the \_\_\_\_\_ day of \_\_\_\_\_, 2016.

Ronnie Lott, Chancery Clerk By: \_\_\_\_\_ D.C.



212 WATERFORD SQUARE  
SUITE 300  
MADISON, MS 39110  
601.905.1099  
MCMASTER & ASSOCIATES, INC.  
CIVIL ENGINEERS & LAND SURVEYORS

## BRIDGEWATER, ELEVEN-C

SITUATED IN SECTION 21, TOWNSHIP 7 NORTH, RANGE 1 EAST,  
CITY OF RIDGELAND, MADISON COUNTY, MISSISSIPPI

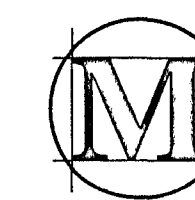
| Curve Table |        |         |                 |              |
|-------------|--------|---------|-----------------|--------------|
| Curve #     | Length | Radius  | Chord Direction | Chord Length |
| C1          | 30.38  | 20.00   | N34° 52' 48"W   | 27.54        |
| C2          | 30.69  | 20.00   | S52° 35' 26"W   | 27.77        |
| C3          | 107.92 | 170.00  | N26° 48' 59"E   | 106.12       |
| C4          | 146.01 | 230.00  | N26° 48' 59"E   | 143.57       |
| C5          | 89.60  | 230.00  | S33° 50' 34"W   | 89.03        |
| C6          | 66.22  | 170.00  | S33° 50' 34"W   | 65.81        |
| C7          | 147.80 | 170.00  | N47° 35' 23"E   | 143.19       |
| C8          | 146.53 | 230.00  | N40° 56' 00"E   | 144.06       |
| C9          | 26.78  | 20.00   | S20° 49' 05"W   | 24.83        |
| C10         | 30.17  | 20.00   | N59° 49' 26"W   | 27.39        |
| C11         | 207.27 | 365.00  | N0° 20' 05"W    | 204.50       |
| C12         | 55.66  | 425.00  | N13° 47' 45"W   | 55.62        |
| C13         | 187.89 | 425.00  | N2° 37' 17"E    | 186.37       |
| C14         | 19.66  | 20.00   | N44° 06' 03"E   | 18.88        |
| C15         | 43.79  | 60.00   | S51° 21' 27"W   | 42.83        |
| C16         | 70.68  | 60.00   | S3° 17' 53"E    | 66.66        |
| C17         | 64.10  | 60.00   | S67° 38' 52"E   | 61.09        |
| C18         | 117.10 | 60.00   | N25° 50' 05"E   | 99.38        |
| C19         | 16.47  | 20.00   | S6° 29' 29"E    | 16.01        |
| C20         | 13.42  | 425.00  | N16° 11' 28"E   | 13.42        |
| C21         | 72.13  | 1112.97 | S76° 32' 00"E   | 72.12        |
| C22         | 97.38  | 1112.97 | S80° 53' 47"E   | 97.35        |
| C23         | 60.58  | 1112.97 | S84° 57' 44"E   | 60.57        |
| C24         | 77.44  | 235.00  | N81° 56' 15"E   | 77.09        |
| C25         | 162.87 | 488.00  | S81° 49' 03"W   | 162.11       |
| C26         | 29.55  | 488.00  | S70° 31' 18"W   | 29.55        |
| C27         | 74.26  | 295.00  | N84° 10' 02"E   | 74.06        |
| C28         | 168.76 | 428.00  | S80° 04' 58"W   | 167.67       |
| C29         | 195.53 | 405.22  | N82° 36' 38"E   | 193.64       |
| C30         | 226.25 | 345.22  | N87° 33' 44"E   | 222.23       |
| C31         | 25.06  | 20.00   | S60° 32' 23"W   | 23.45        |
| C32         | 34.16  | 20.00   | N21° 50' 21"W   | 30.16        |
| C33         | 58.93  | 495.00  | N30° 30' 30"E   | 58.89        |
| C34         | 89.83  | 555.00  | N29° 16' 55"E   | 89.73        |
| C35         | 17.91  | 20.00   | N59° 34' 40"E   | 17.32        |
| C36         | 87.39  | 60.00   | S43° 30' 40"W   | 79.87        |
| C37         | 62.15  | 60.00   | S27° 53' 23"E   | 59.41        |
| C38         | 93.09  | 60.00   | N77° 59' 19"E   | 84.03        |
| C39         | 53.35  | 60.00   | N8° 04' 18"E    | 51.61        |
| C40         | 17.91  | 20.00   | S8° 15' 36"W    | 17.32        |
| C41         | 188.60 | 559.57  | S61° 07' 15"E   | 187.71       |
| C42         | 267.07 | 499.57  | S58° 20' 52"E   | 263.90       |
| C43         | 171.03 | 559.57  | S42° 42' 34"E   | 170.36       |
| C44         | 149.41 | 499.57  | S34° 27' 54"E   | 148.85       |
| C45         | 31.08  | 20.00   | N78° 28' 05"W   | 28.04        |

| Curve Table |        |        |                 |              |
|-------------|--------|--------|-----------------|--------------|
| Curve #     | Length | Radius | Chord Direction | Chord Length |
| C46         | 29.74  | 20.00  | N14° 25' 23"E   | 27.07        |
| C47         | 17.91  | 20.00  | N82° 40' 36"E   | 17.32        |
| C48         | 94.76  | 60.00  | N63° 05' 32"E   | 85.21        |
| C49         | 63.01  | 60.00  | S12° 14' 15"E   | 60.16        |
| C50         | 64.84  | 60.00  | S73° 16' 58"E   | 61.73        |
| C51         | 73.37  | 60.00  | N40° 43' 46"E   | 68.88        |
| C52         | 17.91  | 20.00  | S31° 21' 31"W   | 17.32        |
| C53         | 142.82 | 493.44 | N36° 27' 47"W   | 142.32       |
| C54         | 41.83  | 345.88 | S41° 17' 25"E   | 41.80        |
| C55         | 182.72 | 345.88 | S22° 41' 32"E   | 180.60       |
| C56         | 34.21  | 20.00  | N56° 33' 31"W   | 30.19        |
| C57         | 72.86  | 553.44 | N29° 40' 08"W   | 72.81        |
| C58         | 109.29 | 553.44 | N39° 05' 51"W   | 109.11       |
| C59         | 116.01 | 285.88 | S33° 07' 45"E   | 115.22       |
| C60         | 75.74  | 285.88 | S13° 54' 50"E   | 75.52        |
| C61         | 160.60 | 466.37 | N16° 11' 22"W   | 159.81       |
| C62         | 32.98  | 20.00  | N27° 11' 59"E   | 29.37        |
| C63         | 17.91  | 20.00  | S79° 53' 58"E   | 17.32        |
| C64         | 40.88  | 60.00  | N73° 45' 28"W   | 40.09        |
| C65         | 64.14  | 60.00  | S56° 06' 10"W   | 61.13        |
| C66         | 66.53  | 60.00  | S6° 17' 04"E    | 63.17        |
| C67         | 86.39  | 60.00  | S79° 17' 58"E   | 79.12        |
| C68         | 38.04  | 60.00  | N41° 17' 14"E   | 37.41        |
| C69         | 17.91  | 20.00  | S48° 46' 57"W   | 17.32        |
| C70         | 74.66  | 406.37 | N25° 18' 18"W   | 74.55        |
| C71         | 36.74  | 466.37 | N28° 18' 41"W   | 36.73        |
| C72         | 28.27  | 367.64 | S28° 21' 54"E   | 28.27        |
| C73         | 221.48 | 367.64 | S8° 54' 12"E    | 218.15       |
| C74         | 164.42 | 307.64 | S15° 15' 25"E   | 162.47       |
| C75         | 67.09  | 307.64 | S6° 18' 07"W    | 66.96        |
| C76         | 14.95  | 651.68 | S35° 13' 30"W   | 14.95        |
| C77         | 27.61  | 20.00  | N31° 11' 21"W   | 25.47        |
| C78         | 32.36  | 20.00  | N64° 33' 51"E   | 28.94        |
| C79         | 147.60 | 340.82 | S56° 40' 31"E   | 146.45       |
| C80         | 136.96 | 400.82 | S60° 56' 40"E   | 136.30       |
| C81         | 120.47 | 400.82 | S42° 32' 41"E   | 120.02       |
| C82         | 28.48  | 20.00  | S3° 28' 41"E    | 26.13        |
| C83         | 86.44  | 60.00  | N3° 57' 31"W    | 79.15        |
| C84         | 94.44  | 60.00  | S89° 40' 36"W   | 84.99        |
| C85         | 67.14  | 60.00  | S12° 31' 37"W   | 63.69        |
| C86         | 33.16  | 400.82 | S31° 33' 50"E   | 33.15        |
| C87         | 18.76  | 711.68 | S35° 52' 46"W   | 18.76        |
| C88         | 31.21  | 20.00  | S80° 34' 52"W   | 28.14        |
| C89         | 27.64  | 20.00  | N2° 57' 00"W    | 25.49        |
| C90         | 137.20 | 452.95 | S33° 51' 26"E   | 136.67       |

| Curve Table |        |         |                 |              |
|-------------|--------|---------|-----------------|--------------|
| Curve #     | Length | Radius  | Chord Direction | Chord Length |
| C91         | 102.87 | 200.00  | N39° 54' 56"W   | 101.74       |
| C92         | 115.03 | 200.00  | S71° 07' 43"E   | 113.46       |
| C93         | 51.24  | 375.00  | S88° 29' 18"W   | 51.20        |
| C95         | 64.80  | 425.00  | S88° 56' 31"W   | 64.74        |
| C96         | 11.94  | 532.96  | S32° 21' 39"E   | 11.94        |
| C97         | 342.21 | 1392.39 | S10° 22' 05"E   | 341.34       |
| C98         | 112.60 | 1392.39 | S1° 00' 38"E    | 112.57       |
| C99         | 93.61  | 1392.39 | S3° 13' 55"W    | 93.59        |
| C100        | 73.08  | 452.95  | S59° 20' 31"E   | 73.00        |
| C101        | 191.59 | 399.00  | N49° 42' 32"W   | 189.76       |
| C102        | 161.19 | 379.35  | N45° 57' 14"W   | 159.98       |
| C103        | 35.09  | 379.35  | N60° 46' 36"W   | 35.08        |
| C104        | 151.34 | 1112.97 | S61° 52' 13"E   | 151.23       |
| C105        | 173.09 | 1112.97 | S70° 13' 17"E   | 172.92       |

| Parcel Line Table |        |                  |
|-------------------|--------|------------------|
| Line #            | Length | Direction        |
| L1                | 34.77  | S8° 37' 48.31"W  |
| L2                | 33.98  | S8° 37' 48.31"W  |
| L3                | 17.99  | N72° 29' 47.65"E |
| L4                | 131.82 | N33° 55' 07.62"E |
| L5                | 86.50  | S33° 55' 07.62"W |
| L6                | 72.70  | N33° 55' 07.62"E |
| L7                | 118.01 | S33° 55' 07.62"W |
| L8                | 176.43 | S57° 01' 03.55"W |
| L9                | 215.44 | N57° 01' 03.55"E |
| L10               | 106.77 | S57° 01' 03.55"W |
| L11               | 74.05  | N57° 01' 03.55"E |
| L12               | 170.41 | N74° 26' 29.52"E |
| L13               | 165.41 | S74° 26' 29.52"W |
| L14               | 93.73  | S30° 34' 05.33"E |
| L15               | 93.73  | N30° 34' 05.33"W |
| L16               | 111.14 | S87° 36' 22.13"E |
| L17               | 80.45  | S84° 34' 25.14"W |
| L18               | 153.16 | N31° 52' 23.60"E |
| L19               | 52.19  | S42° 26' 22.45"E |
| L20               | 67.79  | N53° 17' 05.24"W |
| L21               | 67.00  | N53° 17' 05.24"W |
| L22               | 58.33  | N53° 17' 05.24"W |
| L23               | 132.98 | N53° 17' 05.24"W |
| L24               | 140.23 | N19° 31' 45.64"W |
| L25               | 23.19  | N58° 13' 43.18"E |
| L27               | 199.91 | N72° 15' 39.17"E |
| L28               | 131.31 | N72° 15' 39.17"E |
| L29               | 277.01 | N71° 26' 05.02"W |
| L30               | 132.39 | N71° 26' 05.02"W |

| Parcel Line Table |        |                  |
|-------------------|--------|------------------|
| Line #            | Length | Direction        |
| L31               | 222.14 | N65° 18' 56.02"E |
| L32               | 205.92 | N65° 18' 56.02"E |
| L33               | 230.22 | N54° 37' 58.63"E |
| L34               | 234.60 | N54° 37' 58.63"E |
| L36               | 248.59 | N42° 22' 16.17"E |
| L37               | 208.68 | N58° 13' 43.18"E |
| L38               | 91.56  | S63° 28' 14.79"E |
| L39               | 43.47  | S18° 08' 43.63"E |
| L40               | 44.67  | S26° 47' 57.95"W |
| L41               | 53.07  | S65° 09' 06.28"W |
| L42               | 104.46 | S89° 10' 59.06"W |
| L43               | 68.58  | S70° 48' 08.25"W |
| L44               | 50.67  | S75° 52' 31.55"W |
| L45               | 56.35  | N85° 31' 02.79"W |
| L46               | 37.42  | N70° 46' 37.39"W |
| L47               | 60.37  | N59° 28' 54.24"W |
| L48               | 58.49  | N40° 03' 38.71"W |
| L49               | 83.32  | N33° 42' 39.76"W |
| L50               | 85.37  | N39° 05' 05.17"W |
| L51               | 138.40 | N45° 05' 47.21"W |
| L52               | 47.26  | N24° 33' 25.85"W |
| L53               | 100.98 | N11° 08' 15.68"W |
| L54               | 49.66  | N22° 10' 20.81"W |
| L55               | 61.43  | N35° 45' 49.35"W |
| L56               | 55.43  | N31° 39' 11.76"W |
| L57               | 41.50  | S14° 35' 15.57"E |
| L58               | 33.55  | N6° 39' 55.75"E  |
| L59               | 66.15  | N22° 40' 57.87"E |
| L60               | 66.15  | S22° 40' 57.87"W |



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