



**Agenda
Bay Saint Louis
City Council Meeting
Recessed Meeting
March 26, 2024
5:30 p.m.**

1. Call to Order

2. Consent Agenda

- a. Motion to approve agreement with KLR Consulting for grant writing professional service at rate of \$35 per hour for remainder of 2024 Fiscal Year.
- b. Motion to approve the lowest and best quote for the purchase of a new pump for the Turner Street lift station from BEAR Electric in the amount of \$12,358.00.
- c. Motion to approve the mayor's re-appointment of Casey Favre to the Bay Waveland School Board for a 5 year term. DS
- d. Motion to approve the final plat for Shieldsboro Subdivision Phase 2A pending receipt of maintenance bond.
- e. Motion to spread the recessed meeting notice of March 26, 2024 on the minutes.

3. Redistricting Discussion

4. Adjourn

- a. Motion to adjourn the recessed meeting of March 26, 2024.

**If you would like to speak at Public Forum, please sign in as the sign-in sheets will be pulled before the Public Forum.
The Public Forum sign-in sheet is by the agenda on the table just outside the Council Chambers.**



City Council Department Report

To: City Council
From: Caitlin Bourgeois,
Date: March 26, 2024
Subject: Motion to approve agreement with KLR Consulting for grant writing professional service at rate of \$35 per hour for remainder of 2024 Fiscal Year.

Current contract ended on 02/29/24. Bay St. Louis PD has been the recipient of over \$118,000.00 in grant funding through KLR services.

Mississippi Office of Homeland Security (MOHS) Grant, No. 23LE112, awarded September 2023 in sum of \$100,000.00. Equipment usage of License Plate Readers (LPRs) affixed to poles aligned with city roadways. Currently undergoing a modification that requires approval for designated poles from FEMA Environmental Historical Preservation (EHP) screening.

Mississippi Office of Homeland Security (MOHS) Grant, No. 23LE112B, awarded September 2023 in sum of \$12,000.00. Purchase of equipment, six (6) MSWIN Kenwood hand-held radios.

Mississippi Department of Public Safety grant, Project No. 22IL2021, awarded February 2023 in sum of \$6,759.90. Purchase of 5 ballistic vest kits with a request for local match waiver. Note: This grant is to purchase 5 ballistic Safariland vests for police officers. The city requested a waiver of the local match, resulting in 100% grant funding for the purchase of the vests. Vests were on order from Barney's Police Supply but order has been cancelled and reordered from Safariland.

Attachments:

1. City of BSL Contract (1)

***KLR Consulting* <> City of Bay Saint Louis**
Contractor Agreement

KLR Consulting (also known as “Contractor”) will provide **the City of Bay Saint Louis, Mississippi** (also known as “Client”) with professional grant writing services detailed in the Terms and Conditions below.

Contract in effect beginning: March 1, 2024

Terms and Conditions:

The following rates and terms apply:

Services: Contractor will provide the following as per deliverable dates and content topics mutually agreed upon:

- Research and identify potential federal, state, local, and private funding opportunities to benefit the City of Bay St. Louis, in particular the Bay St. Louis Police Department
- Draft, review, and submit grant proposals and applications
- Work with appropriate city personnel in order to collect needed data to meet the requirements for grant proposals
- Contractor will work to submit 5 to 10, with a maximum of 12, grant proposals per contract period of 6 months

Compensation: Client will pay \$35 per hour for up to 180 hours during the contract period (approximately 30 hours per month for 6 months). Any additional projects outside the terms listed above OR outside the 180 hour maximum will incur a \$40 per hour charge. All financial compensation is due to the Contractor via check, direct deposit, or other electronic payment processor as agreed to by both parties, by the last business day of each month, for hours invoiced in the previous month. Contractor will invoice the Client each month, beginning April in 2024.

Changes and Revisions: The agreed upon fee is based on an estimate made by the Contractor, in order to fulfill the terms of the contract and compensate the Contractor appropriately. Additional projects outside the scope of this Contract may be added at any time, however, the Contractor has the option to turn down additional projects outside the scope of this Contract. Any additional projects are subject to the same terms as this Contract and will be added to the appropriate invoice. Compensation for additional services

rendered will be due on the last business day of the month of invoice.

Ownership of Work Product: As a result of this Agreement, the Contractor will create specific deliverables, which shall be referred to as “**Work Product**”, including, but not limited to, grant proposals and applications, physical and/or electronic. All Work Product shall be owned by the Client. The Contractor does not maintain any rights to this Work Product and shall turn over all Work Product upon the termination of this Contract. While the Contractor does not own the materials, the Contractor may use the materials as part of a portfolio to show examples of work completed in the past. All materials will be watermarked in an attempt to prevent unauthorized use.

Term: This Contract shall commence upon the Effective Date, as stated above, and will continue for a period of 6 months, ending once the final invoice is paid. Either party wishing to end or renew the Contract must provide written notice thirty (30) days prior to the final invoice date. Termination of the Contract to be effective on the date of final payment. Contractor maintains the right to invoice for any work performed on any projects underway at the time of termination.

Contractor Relationship: The Parties agree that the Contractor is providing the Services under this Contract and acting as an independent contractor and not as an employee. This Contract does not create a partnership, joint venture, or any other fiduciary relationship between the Client and the Contractor.

Confidentiality: During the course of this Contract, it may be necessary for the Client to share proprietary information, including trade secrets, industry knowledge, and other confidential information, to the Contractor in order for the Contractor to complete the Work Product. The Contractor will not share any of this proprietary information at any time. The Contractor also will not use any of this proprietary information for the Contractor’s personal benefit at any time. This section remains in full force and effect even after termination of the Contract by its natural termination or the early termination by either Party.

Termination: This Contract may be terminated with a written thirty (30) day notice provided by either Party. The Client will be responsible for payment of all Services performed up to the date of termination by the final business day of the month. This Contract may be terminated at any point, with sixty (60) days written notice for non payment by Client or Contractor’s breach of this Contract, where the Client/Contractor fails to cure such breach within sixty (60) days.

Upon termination of the Contract, the Contractor shall return all the Client’s content, materials, and all Work Product to the Client at its earliest convenience, but in no event beyond thirty (30) days after the date of termination.

Representations and Warranties: Both Parties represent that they are fully authorized to enter into this

Contract. The performance and obligations of either Party will not violate or infringe upon the rights of any third party or violate any other agreement between the Parties, individually, and any other person, organization, or business or any law or governmental regulation.

Hold Harmless: The parties agree to hold each other harmless from any claims, legal issues, and any other events that may arise during the performance of this contract.

Limitation of Liability: UNDER NO CIRCUMSTANCES SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY OR ANY THIRD PARTY FOR ANY DAMAGES RESULTING FROM ANY PART OF THIS CONTRACT SUCH AS, BUT NOT LIMITED TO, LOSS OF REVENUE OR ANTICIPATED PROFIT OR BUSINESS LOSS, COSTS OF DELAY OR FAILURE OF DELIVERY, WHICH ARE NOT RELATED TO OR THE DIRECT RESULT OF A PARTY'S NEGLIGENCE OR BREACH.

Disclaimer of Warranties: The Contractor shall complete the Services for the Client's purposes and to the Client's specifications. THE CONTRACTOR DOES NOT REPRESENT OR WARRANT THAT SUCH SERVICES WILL CREATE ANY ADDITIONAL PROFITS, SALES, EXPOSURE, BRAND RECOGNITION, OR THE LIKE. THE CONTRACTOR HAS NO RESPONSIBILITY TO THE CLIENT IF THE DELIVERABLES DO NOT LEAD TO THE CLIENT'S DESIRED RESULT(S).

Severability: In the event any provision of this Contract is deemed invalid or unenforceable, in whole or in part, that part shall be severed from the remainder of the Contract and all other provisions should continue in full force and effect as valid and enforceable.

Waiver: The failure by either Party to exercise any right, power, or privilege under the terms of this Contract will not be construed as a waiver of any subsequent or future exercise of that right, power, or privilege or the exercise of any other right, power, or privilege.

Legal Fees & Expenses: In the event of a dispute resulting in legal action, the prevailing Party will be entitled to its legal fees, including, but not limited to its attorneys' fees and case expenses.

Legal and Binding Contract: This Contract is legal and binding between the Parties as stated above. This Contract may be entered into and is legal and binding both in the United States and throughout Europe. The Parties each represent that they have the authority to enter into this Contract.

Governing Law and Jurisdiction: The parties maintain that this contract is governed by the laws & regulations of the state of Mississippi.

Entire Agreement: The Parties acknowledge and agree that this Contract represents the entire agreement between the Parties. In the event that the Parties desire to change, add, or otherwise modify

any terms, they shall do so in writing to be signed by both parties.

The Parties agree to the terms and conditions set forth above as demonstrated by their signatures as follows:

Client

Signed: _____

Name: _____

Date: _____

Contractor

Signed: _____

Name: _____

Date: _____

Attachment: City of BSL Contract (1) (7808 : KLR grant writing services PD)



City Council Department Report

To: City Council
From: Caitlin Bourgeois,
Date: March 26, 2024
Subject: Motion to approve the lowest and best quote for the purchase of a new pump for the Turner Street lift station from BEAR Electric in the amount of \$12,358.00.

Attachments:

1. BEAR Purchase order

Bill To: City of Bay St. Louis
P.O. Box 2550
Bay St. Louis, MS 39521
228.466.5450 – 228.466.5451
Fax: 228.466.5506

PURCHASING REQUISITION
City of Bay Saint Louis

Ship To: _____

Req By: Quentin

Auth By: Ronnie

Charge to Acct: 400-700

Apprvd By: _____

Received: _____

Vender Info: _____
BEAR

Date	Delivery Date	Ship Via	Project #	Requisition #	Purchase Order #
3-25-24			Turner St Station	10-22214	
Description of Material			QTY	Price	Amount
New HCP Pump - 15 HP			1		10,023 ⁰⁰
Remove Bracket / Lift			1		810 ⁰⁰
Install			1		800 ⁰⁰
Hoist Truck			1		725 ⁰⁰
Job # 37487; Quote dated 2/16/24			TOTAL		12,358 ⁰⁰

[Handwritten signature]

Attachment: BEAR Purchase order (7853 : BEAR Purchase Order Turner St Lift Station PW)

B.E.A.R.
Benvenuti Electrical Apparatus & Repair, Inc.
QUOTATION/PROPOSAL

9515 N. Wildflower Court
 Gulfport, MS 39503
 Phone: 228-831-0445 FAX: 228-832-8105
 A Woman-Owned Small Business



DATE: February 6, 2024
 ATTENTION: Debbie Peterson
 COMPANY: City of Bay St Louis
 PHONE: 228-466-5531
 EMAIL: dpeterson@baystlouis-ms.gov
 FROM: Mike Benvenuti
 QUOTE #: 224047 JOB #: 37487 Addendum 1
 LOCATION: Turner Street Lift Station
 Total Number of Pages: 1
 Message: Per Quentin's request I am quoting the following:

Repairs to Hidrostral Pump, O.NR: 2008/08.431, Type: DEXB2-MYAK+XB1C30-10, Serial # 175777, Part # 126417XP, P1: 12 KW, 3480 RPM, 3 phase, 230 volts, 32.4 amps. Tested, pressure washed complete pump, checked resistance, megged windings, removed oil plug and found water in pump, completely disassembled pump, found top guide bracket needs repair. Found shaft damaged, stator shorted and core bad, cooling jacket leaking, and back cover damaged. All these parts will need to be replaced, plus cord cap and S/O cord. I will list repair cost plus cost for a new Hidrostral Pump. I am also quoting you an alternate HCP Pump.

Stator:	\$5,066.00
Pump/Motor Shaft:	\$1,800.00
Back Cover:	\$2,506.00
Cooling Jacket:	\$1,706.00
Rebuild Kit:	\$2,137.00
Cord Cap & S/O Cord:	\$2,200.00
Shop Labor:	<u>\$3,250.00</u>
Total Rebuild Cost:	\$18,665.00

Lead Time: 12 weeks A.R.O.

Option #1: New Hidrostral Replacement Pump, D3K-M4+DEXK2-X1AK1FG+XC1A4MA-25, Part # 1434056 Pump Assembly, Immersible/Submersible Pump with Immersible Motor, 14.8 HP, 3505 RPM, 1.18 SF, Standard Oil Cooling, 82 Feet Cable, FM, 230/460V, DEXK2-MIAK1FG+XC1A4MM-25 (Max VFD Power 15.2 HP).
 Cost: \$27,657.00 Freight: FOB factory, prepay and add Lead Time: 12 weeks A.R.O.

Option #2: Quantity (1) one – New 15 HP HCP Pump, 230 volt, 3 phase, 4" discharge.
 Pump Cost: \$10,023.00 Freight Included Lead Time: 2 weeks A.R.O.

Removed lifting bracket from Hidrostral Pump, weld and repair, install on new HCP Pump.
 Cost: \$810.00

Service call to install with hoist truck and B.E.A.R. Technician.
 Hoist Truck: \$725.00
 Two (2) B.E.A.R. Technicians: \$800.00

Total Cost New HCP Pump, Lift Station & Install: \$12,358.00
 Time to Install: 1 working day
 We appreciate the opportunity to quote this for you

Mike Benvenuti Emailed Date 02/06/2024
Prices are subject to any applicable sales tax. Availability of quoted items is subject to prior sale.
 save as: 224047.Addendum 1 CityofBayStLouis.HidrostralPumpRepair.do.doc

Attachment: BEAR Purchase order (7853 : BEAR Purchase Order Turner St Lift Station PW)



City Council Department Report

To: City Council
From: Caitlin Bourgeois,
Date: March 26, 2024
Subject: Motion to approve the mayor's re-appointment of Casey Favre to the Bay Waveland School Board for a 5 year term. DS

Attachments:

1. Casey Nomination Letter for School Board
2. Casey Favre Letter
3. 2024-00010 Knoblock

DATE: January 25, 2024
 TO: Bay St. Louis City Council
 FROM: Mayor Mike Favre
 SUBJECT: Reappointment of Casey Favre to BWSD Board of Trustees

Please accept this letter as my notification to re-appoint Casey Favre to the BWSD Board of Trustees for another term beginning March 1, 2024.

As you are well aware, serving in this position can be challenging and is time consuming. Casey has served on the Board for approximately 8 years, and to my knowledge, has never missed a meeting or a school board event. He has served as the Board President and been elected to that position by several different combinations of board members. It is my opinion that the BWSD has never been in better shape, and I attribute a large part of that success to the fact that the City of BSL has been instrumental in shaping a school board that is highly effective.

Found below you will find some of the accomplishments of BWSD that have occurred during the time Casey has served as Board President:

- The Board of Trustees has a harmonious relationship for the first time in a long period of time which enables them to work together to make decisions that better the district.
- The district has a reputation of having done an excellent job of navigating the Covid pandemic as they missed the least amount of school days of coast school districts and were able to provide virtual instruction in a record amount of time. The preventative measures taken resulted in relatively few serious cases of Covid within the district.
- The district has state of the art technology including the latest Promethean instructional boards in each classroom and a 1:1 initiative of instructional laptops.
- A comprehensive reading development program has been instituted at West Elementary School with a result of North Bay Elementary School consistently having some of the top 3rd grade “reading gate” scores on the coast.
- The district has a focus on securing competitive grants and has secured approximately \$10 million in grant funding outside of the “normal school district grant programs”.
- A district wide Pre-K program is offered at no cost to parents and is funded through competitive grants.
- The most important accomplishment speaks for itself and is the improvement of the school district which has risen from being ranked #69 to #11 in the State of Mississippi.

I spoke with Sandra Reed, Superintendent BWSD, about the current status of the board and she shared that she felt like the current board was highly effective and that she believed it was critically important to retain Casey on the board as he was tremendously helpful to the success of the district.

Thank you for your consideration of my recommendation to re-appoint Casey the BWSD Board of Trustees.



BAY-WAVELAND SCHOOL DISTRICT

200 N. Second St., Bay St. Louis, MS 39520

Thomas J. Burlison
Business Administrator

Telephone (228) 467-9242
Fax: (228) 467-1230

February 6, 2024

To Whom it May Concern:

This letter is to certify that Mr. Casey Favre has not received any compensation or reimbursements from the Bay Waveland School District in his recent appointment as Board Member.

If you have any questions, feel free to contact me at 228-467-9242.

Sincerely,

A handwritten signature in black ink, appearing to be 'T. J. Burlison', written in a cursive style.

T. J. Burlison
Chief Financial Officer



March 20, 2024

The Honorable Gary Knoblock
 Councilman, City of Bay St. Louis
 688 Highway 90
 Bay St. Louis, Mississippi 39520

Re: Nepotism

Dear Mr. Knoblock:

The Office of the Attorney General has received your request for an official opinion.

Question Presented

Would it be a violation of the nepotism statute for the mayor of Bay St. Louis to appoint his son to the Bay-Waveland School District if the son does not receive any compensation as a school board member?

Brief Response

If the son waives all payments or reimbursements that come from public funds, it would not be a nepotism violation for the mayor to appoint his son to the local school board.

Applicable Law and Discussion

Mississippi's general nepotism statute provides, in relevant part:

It shall be unlawful for any person elected, appointed or selected in any manner whatsoever to any state, county, district or municipal office, or for any board of trustees of any state institution, to appoint or employ, as an officer, clerk, stenographer, deputy or assistant *who is to be paid out of the public funds*, any person related by blood or marriage within the third degree, computed by the rule of the civil law, to the person or any member of the board of trustees having the authority to make such appointment or contract such employment as employer. . . .

Miss. Code Ann. § 25-1-53 (emphasis added). We use a three-part analysis to determine whether an employment relationship violates the nepotism statute. "First, are the parties related within the

Hon. Gary Knoblock
 March 20, 2024
 Page 2

third degree? Second, is the relative who is a public official the ‘appointing authority’? Third, is the job included in the list of prohibited positions? If the answer to any of these three questions is ‘no’, there is no violation of the statute.” MS AG Op., *Nowak* at *1 (June 5, 2020) (internal citations omitted).

In your factual scenario, the answer to all of these questions is yes. Father and son are related within the third degree, the father is the appointing authority, and a school board member is considered an officer under the nepotism statute. MS AG Op., *Hammack* at *1 (Apr. 10, 2015). However, you further state in your request that the son does not receive any payment or reimbursement using public funds for his service as a school board member. This office has previously opined that a nepotism violation can be avoided if the appointee waives all payments or reimbursements using public funds. *Hammack* at *1. “With regard to a school board member, the waiver must apply to payments under Section 37-6-13, including the salary or per diem, and payment in reimbursement for expenses and travel . . . otherwise available to school board members for travel to school board meetings and any training sessions or regional or national education meetings.” *Id.* (internal citation omitted). Accordingly, it would not be a nepotism violation for the mayor to appoint his son to the local school board if the son waives all payments or reimbursements that come from public funds for his service as a school board member.

To the extent that your question raises other possible ethics issues, we recommend you contact the Mississippi Ethics Commission regarding any potential conflicts of interest governed by Mississippi’s Ethics in Government Laws. Miss. Code Ann. §§ 25-4-101, *et seq.*

If this office may be of any further assistance to you, please do not hesitate to contact us.

Sincerely,

LYNN FITCH, ATTORNEY GENERAL

By: */s/ Beebe Garrard*

Beebe Garrard
 Special Assistant Attorney General



City Council Department Report

To: City Council
From: Caitlin Bourgeois,
Date: March 26, 2024
Subject: Motion to approve the final plat for Shieldsboro Subdivision Phase 2A pending receipt of maintenance bond.

Attachments:

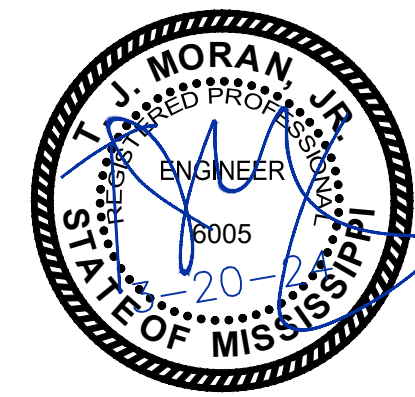
1. 20-006 PHASE 2A AS-BUILT
2. Shieldsboro Phase 2A (2)

SHIELDSBORO SUBDIVISION PHASE 2A 42 LOTS OLD SPANISH TRAIL BAY ST. LOUIS, MISSISSIPPI

CLIENT:

JEFF VALEE & HENRY SCOTT
1109 HICKORY HILL DR
GAUTIER, MS 39553

JUNE 20, 2021



CONFORMS TO
CONSTRUCTION
RECORDS
DATE: 01-02-24 BY: *[Signature]*

TME

TERRY MORAN
ENGINEERING & SURVEYING
TERRY MORAN, P.E., P.L.S.
P.O. BOX 4075 - Biloxi, MS 39535
Ph (228) 896-4733 Fax (228) 896-6769

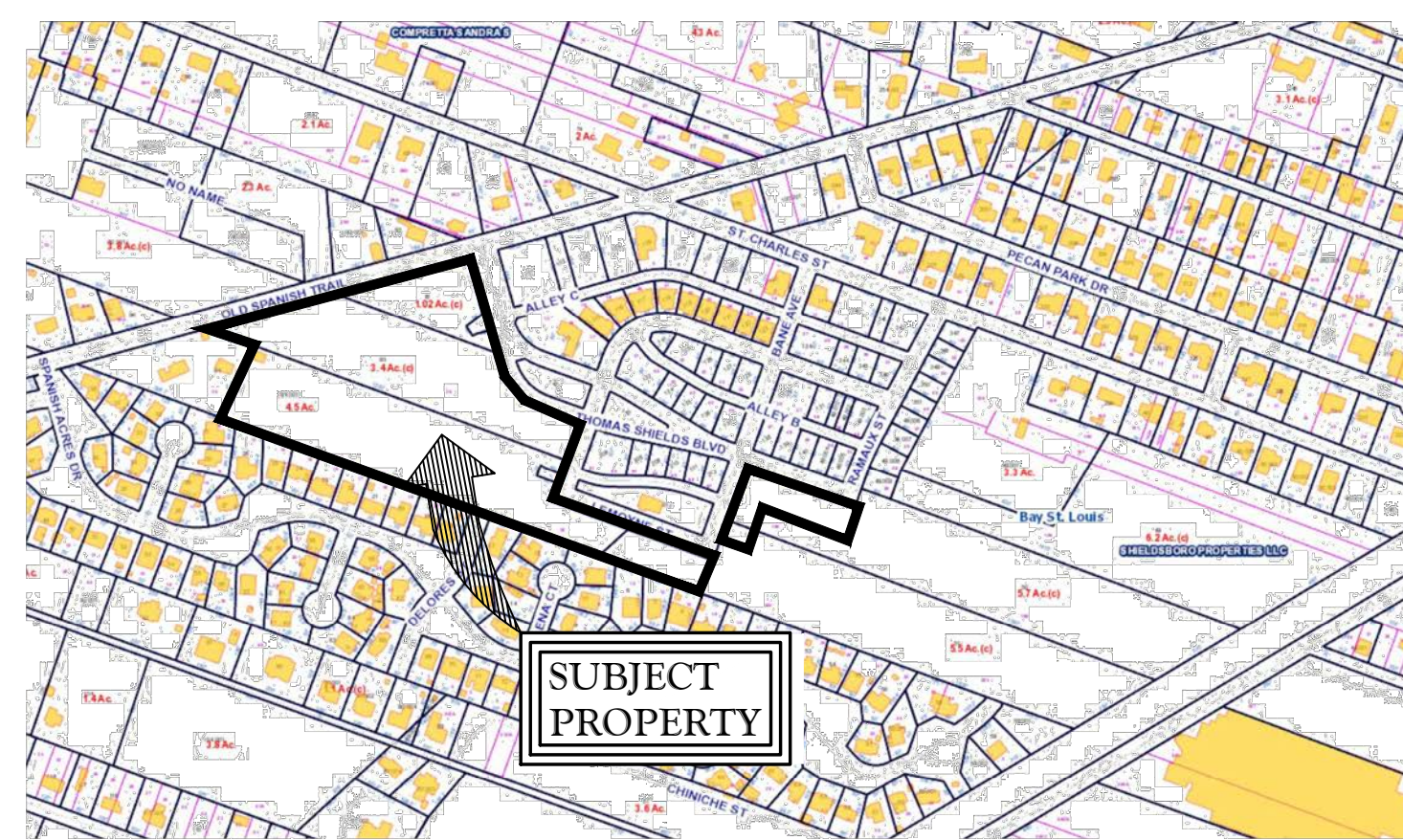
IN ASSOCIATION WITH

HEINRICH & ASSOCIATES

RESIDENTIAL & COMMERCIAL DESIGN
1806 23rd AVE., Suite B - Gulfport, MS 39501
Ph (228) 896-6768

ATTENTION: NO CONSTRUCTION IS TO COMMENCE ON THIS PROJECT
BEFORE THE APPROPRIATE PERMITS HAVE BEEN OBTAINED.

VICINITY MAP



N.T.S.

SHEET INDEX

COVER SHEET	T1
GENERAL NOTES & LEGENDS	C1
EXISTING CONDITIONS & DEMILITION PLAN	C2
LOT & STREET LAYOUT	C3
GRADING & DRAINAGE PLAN	C4
EROSION CONTROL PLAN	C5
UTILITY PLAN	C6
CONSTRUCTION DETAILS	CD1
CONSTRUCTION DETAILS	CD2
CONSTRUCTION DETAILS	CD3
PLAN AND PROFILE	PP1
PLAN AND PROFILE	PP2
PLAN AND PROFILE	PP3

Sheet
T1
Project No
20-006

CONFORMS TO CONSTRUCTION RECORDS DATE: 01-02-24 BY: [Signature]

UTILITY PLAN NOTES

- 1. THE CONTRACTOR SHALL NOTIFY HUTCHINSON, MOORE, AND RAUCH'S CONSTRUCTION SURVEILLANCE REPRESENTATIVE AND LOCAL JURISDICTIONAL INSPECTOR 48 HOURS BEFORE THE BEGINNING OF EACH PHASE OF CONSTRUCTION.
2. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
3. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS HE DISCOVERS IN THE PLAN.
4. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.
5. THE CONTRACTOR IS REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR PROTECTION.
7. THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING AND COMPACTED SUBGRADE.
8. UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION.
9. FIRE HYDRANT AND WATER MAINS TO BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS EQUIPMENT TO EXISTING UTILITIES, CROSS-DRAIN PIPES AND HEADWALLS.
11. ALL WATER AND SANITARY SEWER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE FAIRHOPE UTILITIES COMPANIES STANDARD SPECIFICATIONS.
12. UNLESS DUCTILE IRON PIPE IS USED, MINIMUM COVER FOR SANITARY SEWER SHALL BE THREE(3) FEET.
13. ALL MANHOLES WITHIN THE 100-YEAR FLOOD PLAIN SHALL BE CONSTRUCTED THREE(3) FEET ABOVE GRADE.
14. NEOPRENE COUPLINGS WITH STAINLESS STEEL BAND AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
15. THE CONTRACTOR SHALL EXCAVATE FOR NEW SEWER TO ELEVATIONS SHOWN ON PLANS. THE CONTRACTOR SHALL TAKE EVERY NECESSARY PRECAUTION TO PROTECT EXISTING SEWER DURING CONSTRUCTION OPERATIONS.
16. 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.
17. ALL EXCESS MATERIAL FROM EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR. COST FOR THIS WORK SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
18. 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.
19. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND INVERT OF SANITARY SEWER FOR CONNECTION TO EXISTING OR PROPOSED SEWER SYSTEM.
20. THE WATER SYSTEM IN THE PUBLIC RIGHT-OF-WAY WILL BECOME THE PROPERTY OF THE LOCAL UTILITIES BOARD UPON COMPLETION.
21. BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS.
22. NATURAL GAS REQUIREMENTS SHALL BE PROVIDED TO THE UTILITIES DEPARTMENT ONE(1) MONTH PRIOR TO SERVICE REQUEST.

- 23. ALL TRAFFIC PLANS SHALL BE COORDINATED WITH BALDWIN COUNTY HIGHWAY DEPARTMENT.
24. ALL PROPERTY LINE MARKERS (IRON PINS, CONCRETE MONUMENTS, ETC.) DESTROYED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF ALABAMA TO RESET PROPERTY MARKERS. THE COST FOR THIS WORK SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

SITE NOTES

- 1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH WITH A MAXIMUM SLUMP OF 4" UNLESS NOTED OTHERWISE.
2. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER OR TENANT.
3. ALL DIMENSIONS ARE FACE OF CURB AND FACE OF BUILDING OR AS NOTED.
4. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION

GRADING AND DRAINAGE NOTES

- 1. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
2. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.
3. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
4. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.
5. COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ATM D698).
6. ALL FILL MATERIAL TO BE UTILIZED ON THE PROJECT SHALL BE FREE OF ORGANIC OR OTHERWISE DELETERIOUS MATERIALS AND COMPACTED TO MINIMUM DRY DENSITIES CORRESPONDING TO 95% OF MAXIMUM DRY DENSITY AS OBTAINED BY STANDARD PROCTOR.
7. MAXIMUM SLOPE OF EMBANKMENT SHALL BE 3.0 FEET HORIZONTAL TO 1.0 FOOT VERTICAL.
8. PROPOSED CONTOUR INTERVALS ARE AS LABELED. ALL PROPOSED CONTOURS ARE FINISHED GRADES.
9. THE CONTRACTOR WILL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS.
10. EXCESS EARTH CUT MATERIAL, IF ANY, SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE APPROVED TO BE PLACED ON SITE BY THE OWNER.
11. ALL STORM DRAINAGE PIPE SHALL BE LAID ON SMOOTH CONTINUOUS GRADES WITH NO VISIBLE BENDS AT JOINTS.
12. ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE METAL FRAME AND COVER FOR ACCESS.

- 13. THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS.
14. SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.

- 15. CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM LIMITS OF ROADWAY CONSTRUCTION AS DIRECTED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED.

SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS SHOWN TO CONTROL EROSION.
2. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
3. DISTURBED AREAS SHALL BE PERMANETLY STABILIZED/VEGETATED AFTER CONSTRUCTION.
4. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
5. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
6. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION LAWS,
7. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED.
8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
9. CONSTRUCT SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.
10. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE ACTIVITY.
11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
12. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.
13. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR ACCEPTANCE.
14. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.

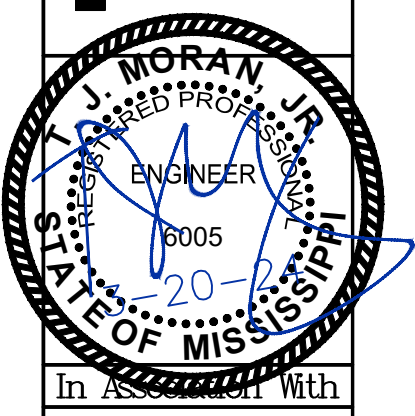
- 15. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
16. TREE PROTECTION AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
17. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.
18. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
19. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS POSSIBLE.
20. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.
21. GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH GRASS IN KIND. IN AREAS OF INDECIIPHERABLE GRASSES-USE CENTIPEDE.
22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.
23. LENGTH OF RIP RAP AREA SHALL BE 6(SIX) TIMES THE DIAMETER OF THE STORM DRAIN PIPE. WIDTH OF RIP RAP AREA SHALL BE THREE(3) TIMES THE DIAMETER AT THE MOUTH OF THE PIPE AND TWO(2) TIMES THE DIAMETER AT THE DOWNSTREAM END.
24. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE DETENTION POND UPON PROJECT COMPLETION.

LEGEND

Table with 2 columns: Symbol and Description. Includes entries for OTF (Open Top Iron Found), CRF (Capped Rebar Found), RBF (Rebar Found 1/2"), CRS (Capped Rebar Set Stamped CA#604LS), CMF (Concrete Monument Found), CMS (Concrete Monument Set), PP (Power Pole), R.O.W. (Right-of-Way), 1' Contours, 5' Contours, Pool Pump, GUY Wire, Electric Meter Box, Air Conditioner, Fire Hydrant, Water Meter, Sanitary Sewer Valve, Junction Box, Telephone Pedestal, Telephone Manhole, Storm Drain Manhole, Transformer Box, Light Pole, Shower, Faucet, Sewer Cleanout, Gas Valve, Water Valve, Cable TV, Sign, Sanitary Sewer Manhole, Grinder Pump, Electric Box, Flag Pole, Existing Asphalt.

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TERRY MORAN ENGINEERING

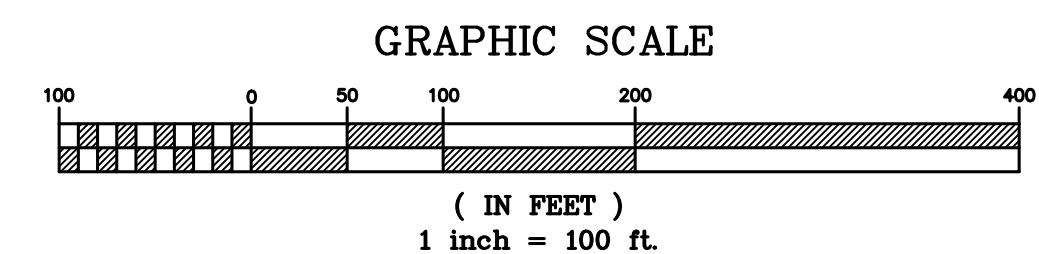
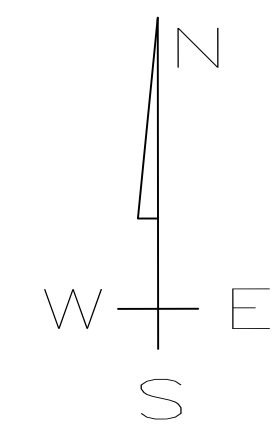


HEINRICH & ASSOCIATES RESIDENTIAL & COMMERCIAL DESIGN 1806 23rd Avenue, Suite B - Gulfport, MS 39501 Ph: (228) 966-6768

GENERAL NOTES & LEGENDS SHIELDSBORO PHASE 2A 42 LOTS BAY ST. LOUIS, MISSISSIPPI

Sheet Date 6-20-21 Drawn By CEV Check By TDL REV

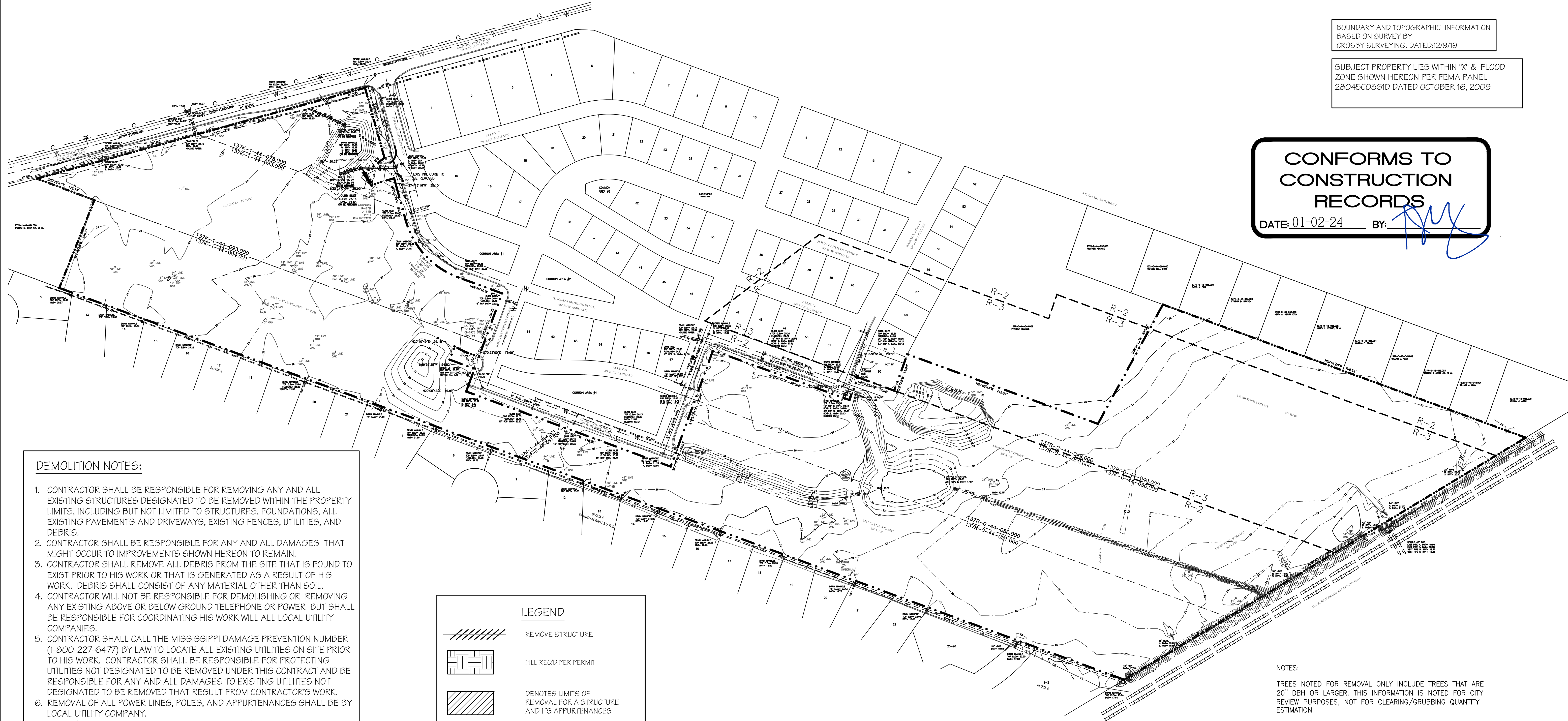
Sheet No. 20-006 Project No. 20-006



BOUNDARY AND TOPOGRAPHIC INFORMATION
BASED ON SURVEY BY
CROSBY SURVEYING, DATED:12/9/19

SUBJECT PROPERTY LIES WITHIN "X" & FLOOD
ZONE SHOWN HEREON PER FEMA PANEL
28046C0361D DATED OCTOBER 16, 2009

**CONFORMS TO
CONSTRUCTION
RECORDS**
DATE: 01-02-24 BY: *[Signature]*



DEMOLITION NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL EXISTING STRUCTURES DESIGNATED TO BE REMOVED WITHIN THE PROPERTY LIMITS, INCLUDING BUT NOT LIMITED TO STRUCTURES, FOUNDATIONS, ALL EXISTING PAVEMENTS AND DRIVEWAYS, EXISTING FENCES, UTILITIES, AND DEBRIS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR TO IMPROVEMENTS SHOWN HEREON TO REMAIN.
3. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE THAT IS FOUND TO EXIST PRIOR TO HIS WORK OR THAT IS GENERATED AS A RESULT OF HIS WORK. DEBRIS SHALL CONSIST OF ANY MATERIAL OTHER THAN SOIL.
4. CONTRACTOR WILL NOT BE RESPONSIBLE FOR DEMOLISHING OR REMOVING ANY EXISTING ABOVE OR BELOW GROUND TELEPHONE OR POWER BUT SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL LOCAL UTILITY COMPANIES.
5. CONTRACTOR SHALL CALL THE MISSISSIPPI DAMAGE PREVENTION NUMBER (1-800-227-6477) BY LAW TO LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO HIS WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITIES NOT DESIGNATED TO BE REMOVED UNDER THIS CONTRACT AND BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UTILITIES NOT DESIGNATED TO BE REMOVED THAT RESULT FROM CONTRACTOR'S WORK.
6. REMOVAL OF ALL POWER LINES, POLES, AND APPURTENANCES SHALL BE BY LOCAL UTILITY COMPANY.
7. LIMITS OF CLEARING AND GRUBBING SHALL BE PROPERTY LINES, UNLESS SPECIFICALLY DESIGNATED OTHERWISE.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION PERMITS THAT ARE REQUIRED TO ACCOMPLISH THE WORK SPECIFIED HEREON.

LEGEND

	REMOVE STRUCTURE
	FILL REQ'D PER PERMIT
	DENOTES LIMITS OF REMOVAL FOR A STRUCTURE AND ITS APPURTENANCES
	TREE REMOVAL

NOTES:
TREES NOTED FOR REMOVAL ONLY INCLUDE TREES THAT ARE 20" DBH OR LARGER. THIS INFORMATION IS NOTED FOR CITY REVIEW PURPOSES, NOT FOR CLEARING/GRUBBING QUANTITY ESTIMATION

NOTE:
NO ON SITE SUPERVISION OR INSPECTIONS ARE PROVIDED WITH THE USE OF THESE PLANS BY THE DESIGNER. BUILDER/CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, CONDITIONS, AND SIZES OF COMPONENTS ALONG WITH SITE CONDITIONS BEFORE STARTING CONSTRUCTION. BUILDER/CONTRACTOR SHALL SEE THAT CONSTRUCTION IS IN CONFORMANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (I.B.C.) AND WITH THE COUNTY/CITY BUILDING INSPECTOR. THE USE OF THESE PLANS FOR CONSTRUCTION SHALL BE EVIDENCE THAT THE REQUIREMENTS STATED ARE ACCEPTED BY THE BUILDER/CONTRACTOR.

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: 1" = 100'-0"

BEFORE UNDERTAKING EACH PART OF THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE PLANS & SPECIFICATIONS AND CHECK AND VERIFY PERTINENT FIGURES SHOWN THEREON AND ALL APPLICABLE FIELD MEASUREMENTS. IF ANY CONFLICTS, ERRORS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR IN THE FIELD, THE CONTRACTOR SHALL PROMPTLY REPORT IN WRITING TO THE ENGINEER OR HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK AFFECTED THEREBY.

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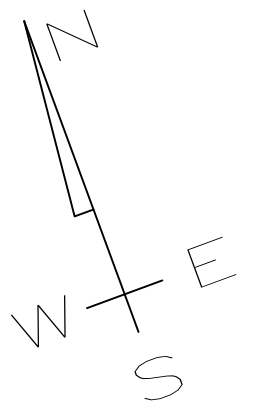
MORAN
REGISTERED PROFESSIONAL
ENGINEER
No. 0005
20
STATE OF MISSISSIPPI

HEINRICH & ASSOCIATES
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Sheet: 6-20-21
Date: 6-20-21
Drawn By: CLV
Check By: TDL
REV: _____

EXIST. CONDITIONS/DEM. PLAN
Project: SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

Project No: 20-006



GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

SITE LEGEND

- TYPICAL SIGN
- TYPICAL STOP BAR
- HEADER CURB
- CURB & GUTTER
- STREET LIGHT

SITE DATA TABLE

ZONING	R-2
ACREAGE	10.8 AC
MIN. LOT SIZE	70' x 89'
SETBACKS	
FYSB	15 FT
SYSB	5 FT
RYSB	10 FT

SITE NOTES:

- CONTRACTOR TO ENSURE ALL CURB RAMPs AND SIDEWALKS MEET ADA REQUIREMENTS.
- STREET LIGHT LOCATIONS AND TYPES TO BE DESIGNED AND SUBMITTED BY MS POWER.
- SEE SHEET CD1 FOR PAVEMENT DETAILS.

UTILITY NOTES:

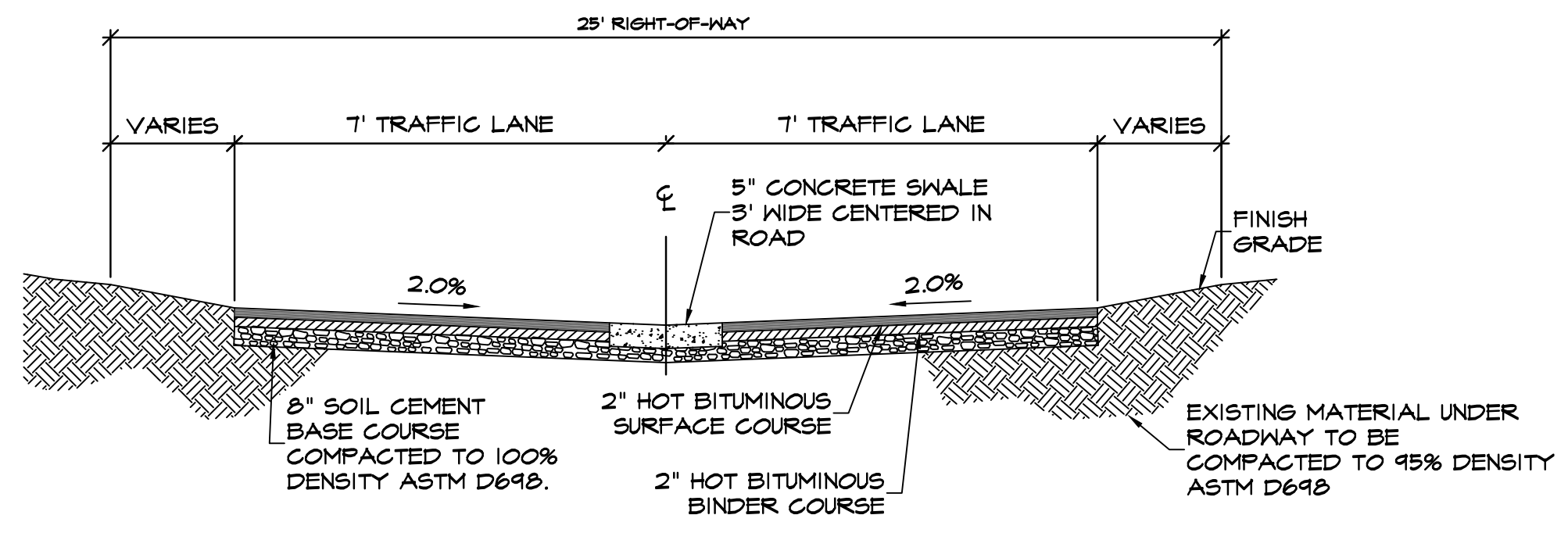
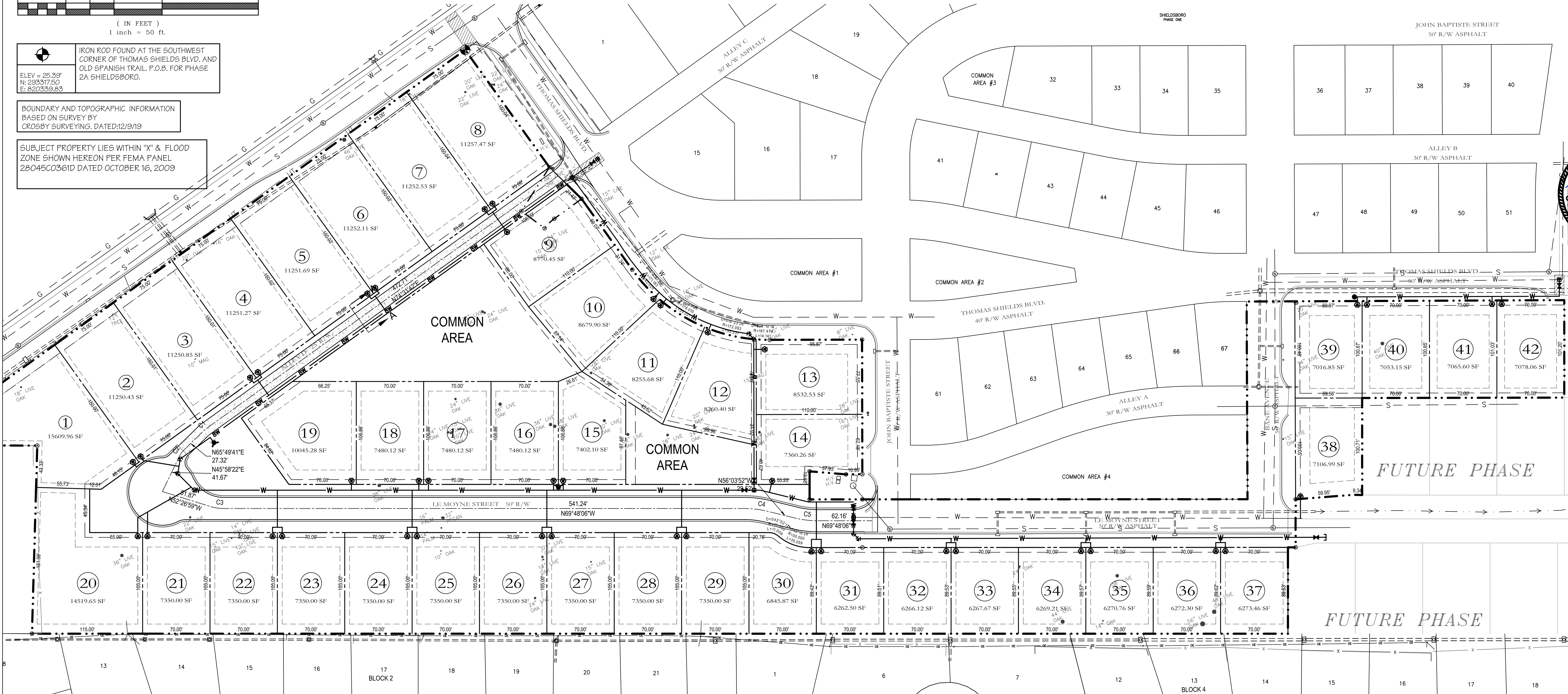
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES AND SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.

- GEOMETRIC NOTES:**
- ALL PAVEMENT STRIPING SHALL BE 4-INCH-WIDE WHITE UNLESS OTHERWISE NOTED.
 - PAINT SHALL BE APPLIED TO PAVEMENT BY SPRAYING WITH A MECHANICAL SPRAYER DEVELOPED FOR SUCH PURPOSES TO ASSURE UNIFORM STRAIGHT LINES.
 - ALL DIMENSIONS FOR PAVEMENT SHOWN HEREIN, UNLESS OTHERWISE NOTED, ARE TAKEN AT THE EDGE OF PAVEMENT.
 - SEE ARCHITECTURAL SITE DETAILS AND/OR LANDSCAPE PLANS FOR SIDEWALK GEOMETRICS AND GRADES.
 - ALL SIDEWALKS SHOWN SHALL BE 4" THICK CONCRETE.
 - ALL SIDEWALKS SHALL BE SCORED W/ DUMMY JOINTS AT 4-FT INTERVALS AND W/ REDWOOD JOINTS AT 32-FT. MAXIMUM SPACING.
 - ALL CURBS SHALL TRANSITION FROM 6" TO 0" AT ALL GRADE SIDEWALK CROSSINGS AND CONNECTIONS TO NON-CURBED AREAS.

IRON ROD FOUND AT THE SOUTHWEST CORNER OF THOMAS SHIELDS BLVD. AND OLD SPANISH TRAIL. P.O.B. FOR PHASE 2A, SHIELDSBORO.
ELEV = 25.39'
N: 293317.50
E: 820339.85

BOUNDARY AND TOPOGRAPHIC INFORMATION BASED ON SURVEY BY CROSBY SURVEYING, DATED:12/9/19

SUBJECT PROPERTY LIES WITHIN "X" & FLOOD ZONE SHOWN HEREON PER FEMA PANEL 28045C0361D DATED OCTOBER 16, 2009



ALLEY "D" SECTION A-A

SCALE: 1" = 50'-0"

CONFORMS TO CONSTRUCTION RECORDS
DATE: 01-02-24 BY: [Signature]

Curve Table

Curve #	Length	Radius	Delta
C1	7.593	50.000	008.7005
C2	5.891	17.000	019.8552
C3	7.117	47.000	008.6780
C4	23.976	100.000	013.7372
C5	23.976	100.000	013.7370

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LOT & STREET LAYOUT
SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

Date: 6-20-21
Drawn By: CLV
Check By: TDL
REV: _____

Sheet No: 20-006

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED DRAIN INLET AND PIPE
- EXISTING CURB INLET AND PIPE
- MATCH EXISTING GRADE

NOTES:

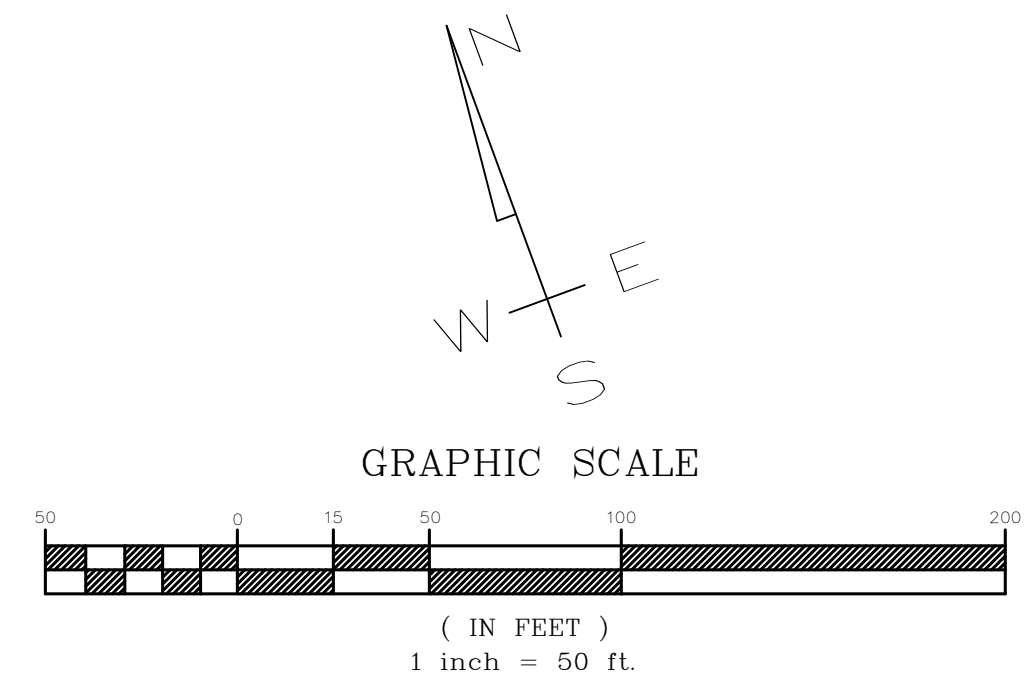
- ALL FINISH SPOT ELEVATIONS REPRESENT BASE OF CURB ELEVATIONS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AT ALL TIMES.
- OWNER SHALL BE RESPONSIBLE FOR GRADING OF PARCELS TO ENSURE POSITIVE DRAINAGE AS INDICATED.

IRON ROD FOUND AT THE SOUTHWEST CORNER OF THOMAS SHIELDS BLVD. AND OLD SPANISH TRAIL P.O.B. FOR PHASE 2A SHIELDSBORO.

ELEV = 25.39'
N: 293317.50
E: 820339.85

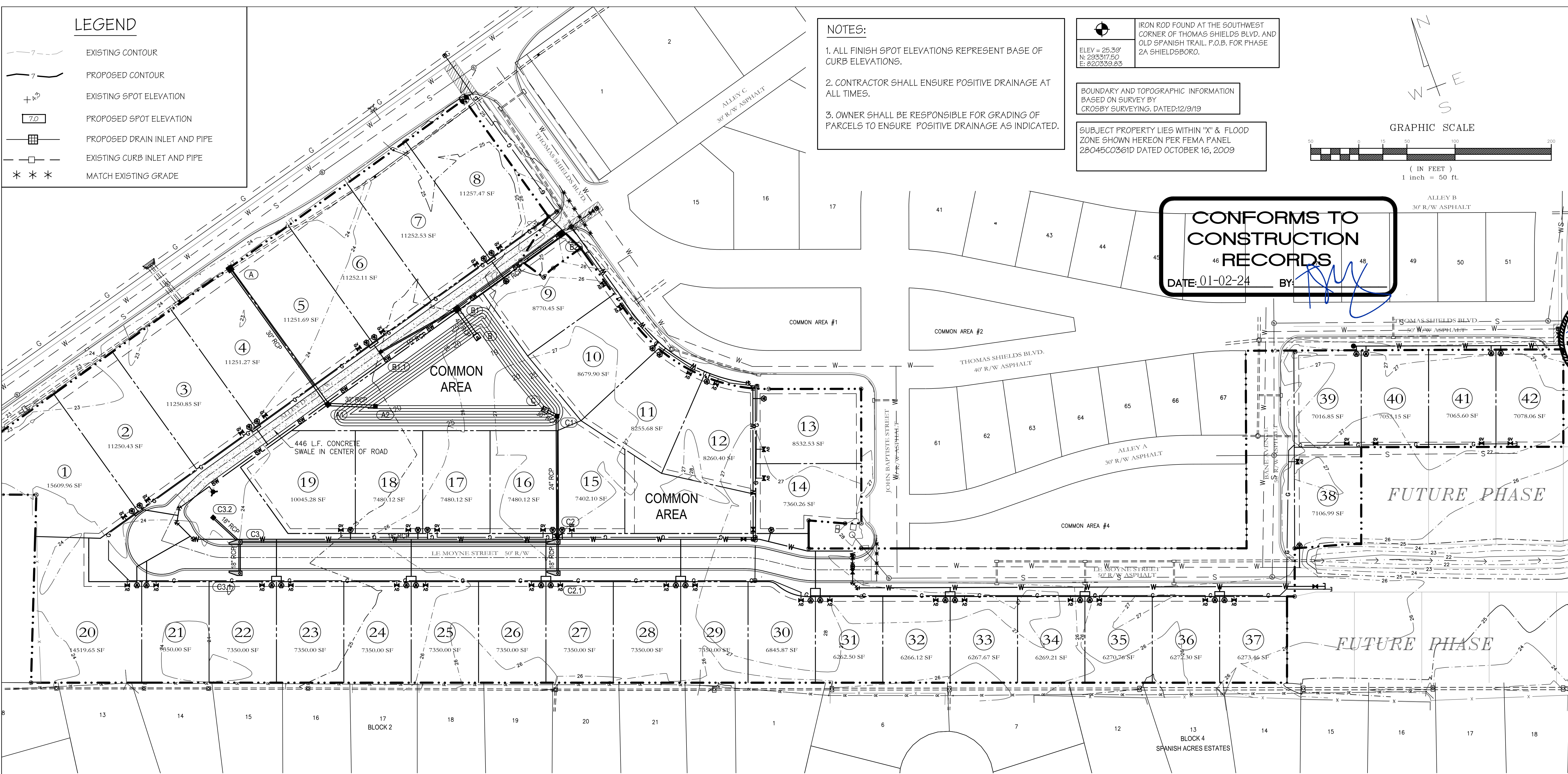
BOUNDARY AND TOPOGRAPHIC INFORMATION BASED ON SURVEY BY CROSBY SURVEYING, DATED: 12/9/19

SUBJECT PROPERTY LIES WITHIN "X" & FLOOD ZONE SHOWN HEREON PER FEMA PANEL 28045C0361D DATED OCTOBER 16, 2009



CONFORMS TO CONSTRUCTION RECORDS

DATE: 01-02-24 BY:



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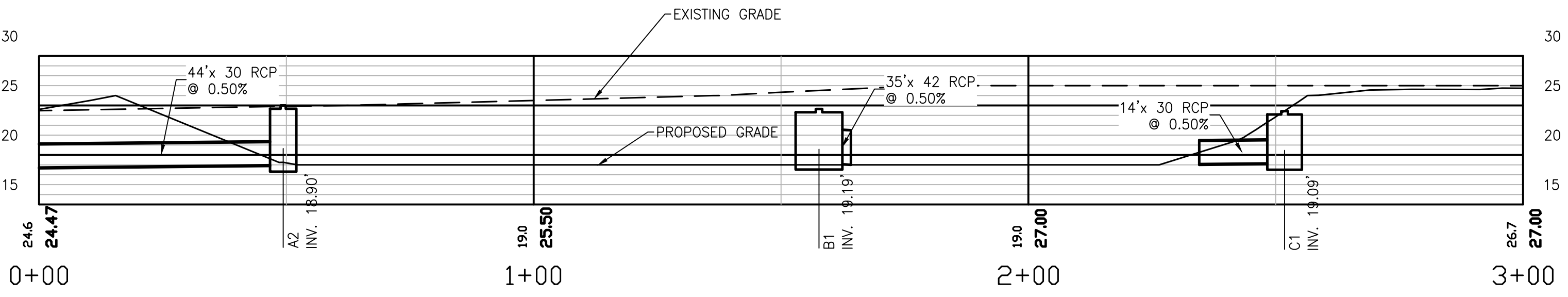
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Ph (228) 996-6768

GRADING & DRAINAGE PLAN

SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

Date: 6-20-21
Drawn By: CEV
Check By: TDL
REV



DRAIN PIPE SUMMARY: STRM

TO	FROM	SIZE (IN.)	TYPE	LENGTH	UP INV.	DOWN INV.	SLOPE
A1	A	30	RCP	168'	18.65	17.78	0.50%
A2	A1	30	RCP	44'	18.90	18.65	0.50%
B1	B	42	RCP	35'	19.19	19.00	0.50%
B1.1	B1	15	RCP	86'	19.64	19.19	0.50%
B2	B1	42	RCP	127'	20.32	19.19	0.85%
C1	C	30	RCP	14'	19.09	19.00	0.50%
C2	C1	24	RCP	127'	19.74	19.09	0.50%
C2.1	C2	18	RCP	29'	19.90	19.74	0.50%
C3	C2	18	RCP	327'	21.39	19.74	0.50%
C3.1	C3	18	RCP	29'	21.55	21.39	0.50%
C3.2	C3	18	RCP	33'	21.58	21.39	0.50%

DRAINAGE STRUCTURE DESIGN SUMMARY: STRM

ID	TYPE	TOP/THROAT	INVERT
A	JUNCTION BOX	21.36	17.78
A1	JUNCTION BOX	24.60	18.65
A2	OCS	21.81	18.90
B	HW	22.92	19.00
B1	Grate Inlet Type X	24.64	19.19
B1.1	Grate Inlet Type X	23.26	19.64
B2	Grate Inlet Type X	26.52	20.32
C	HW	20.92	19.00
C1	Grate Inlet Type B	24.43	19.09
C2	SW-S1-L	26.98	19.74
C2.1	SW-S1-R	27.00	19.90
C3	SW-S1-L	25.31	21.39
C3.1	SW-S1-R	25.40	21.55
C3.2	Grate Inlet Type B	25.08	21.58

GRADING & DRAINAGE PLAN

SCALE: 1" = 50'-0"

NOTE:
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C4

Sheet No
20-006

NOTE:

- ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY. ALL AREAS WITHIN THE RIGHT OF WAY ARE TO BE SOLID SOD.
- THE CONTRACTOR SHALL TAKE ALL MEASURES TO ENSURE THAT SOD THRIVES AFTER INSTALLATION.
- THIS SITE SHALL COMPLY WITH ALL CITY ORDINANCES, INCLUDING EROSION & SEDIMENTATION CONTROL AND WETLANDS.
- ALL CLEARING AND DEMOLITION DEBRIS, CONSTRUCTION AND DOMESTIC WASTE, AND HAZARDOUS AND TOXIC WASTE SHALL BE HAULED OFF SITE AND PROPERLY DISPOSED OF.
- CONTRACTOR IS REQUIRED TO SUPPLY AND MAINTAIN MEASURES NEEDED TO PROTECT THE EXISTING TREES DURING ALL PHASES OF CONSTRUCTION.
- ALL EROSION CONTROL MEASURES ARE TO BE IN ACCORDANCE WITH THE MISSISSIPPI HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS (LATEST EDITION), AND SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- THE EROSION CONTROL MEASURES SHOWN ARE A REQUIRED MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF SEDIMENT TRANSPORT FROM THIS PROPERTY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ADDITIONAL DEVICES AND IMPLEMENT ADDITIONAL PRACTICES IF WARRANTED BY FIELD CONDITIONS.
- THE CONTRACTOR'S SITE SUPERINTENDENT SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES AND PRACTICES DAILY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EROSION CONTROL MEASURES EXCEPT CHANNEL LINING AND OUTLET PROTECTION AFTER SITE STABILIZATION. THE CONTRACTOR SHALL DRESS ALL AREAS TO THE LINE AND GRADE SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND/OR FLUSHING SEDIMENT FROM EXISTING STORM DRAINS IF AN EXCESSIVE AMOUNT IS COLLECTED DURING CONSTRUCTION ACTIVITIES.
- REMOVE ACCUMULATED SEDIMENT WHEN DEPTH REACHES 1/4 OF THE HEIGHT OF BARRIER.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN THE STONE IN THE CONSTRUCTION ENTRANCE THROUGHOUT CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRACKING OR SEDIMENT LEAVING THE SITE.

SEQUENCE OF CONSTRUCTION

PHASE I

CONSTRUCT TEMPORARY STONE ENTRANCE AS SHOWN
PLACE TYPE A SILT FENCE AS SHOWN

PHASE II

CLEAR & GRUB PROPOSED R.O.W.
CONSTRUCT CURBING, INLETS, PIPES & UTILITIES
PLACE WATTLE INLET PROTECTION AT EACH INLET BOX AS EACH IS CONSTRUCTED

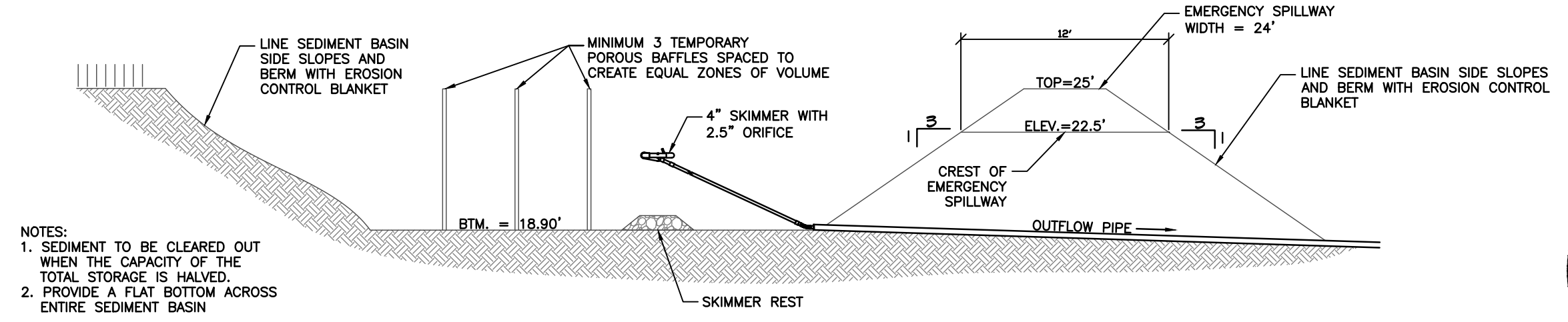
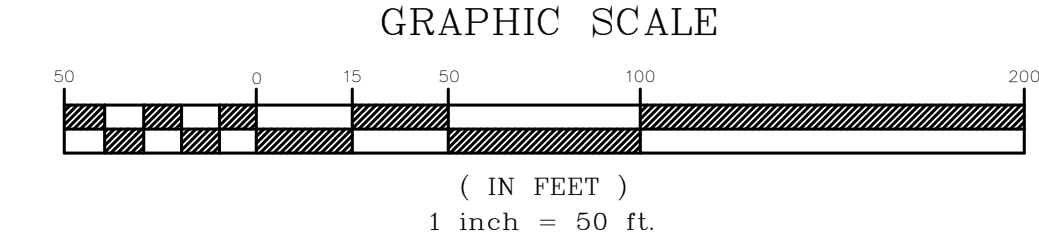
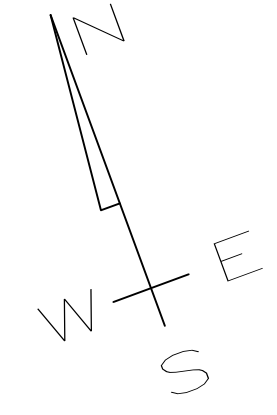
PHASE III

BASE & PAVE PROPOSED ROADWAY.
INSTALL LANDSCAPING & STABILIZE ALL DISTURBED AREAS
REMOVE SILT FENCE, WATTLES, & ANY ACCUMULATED SEDIMENT IN THE DRAINAGE FACILITIES.

IRON ROD FOUND AT THE SOUTHWEST CORNER OF THOMAS SHIELDS BLVD. AND OLD SPANISH TRAIL. P.O.B. FOR PHASE 2A SHIELDSBORO.

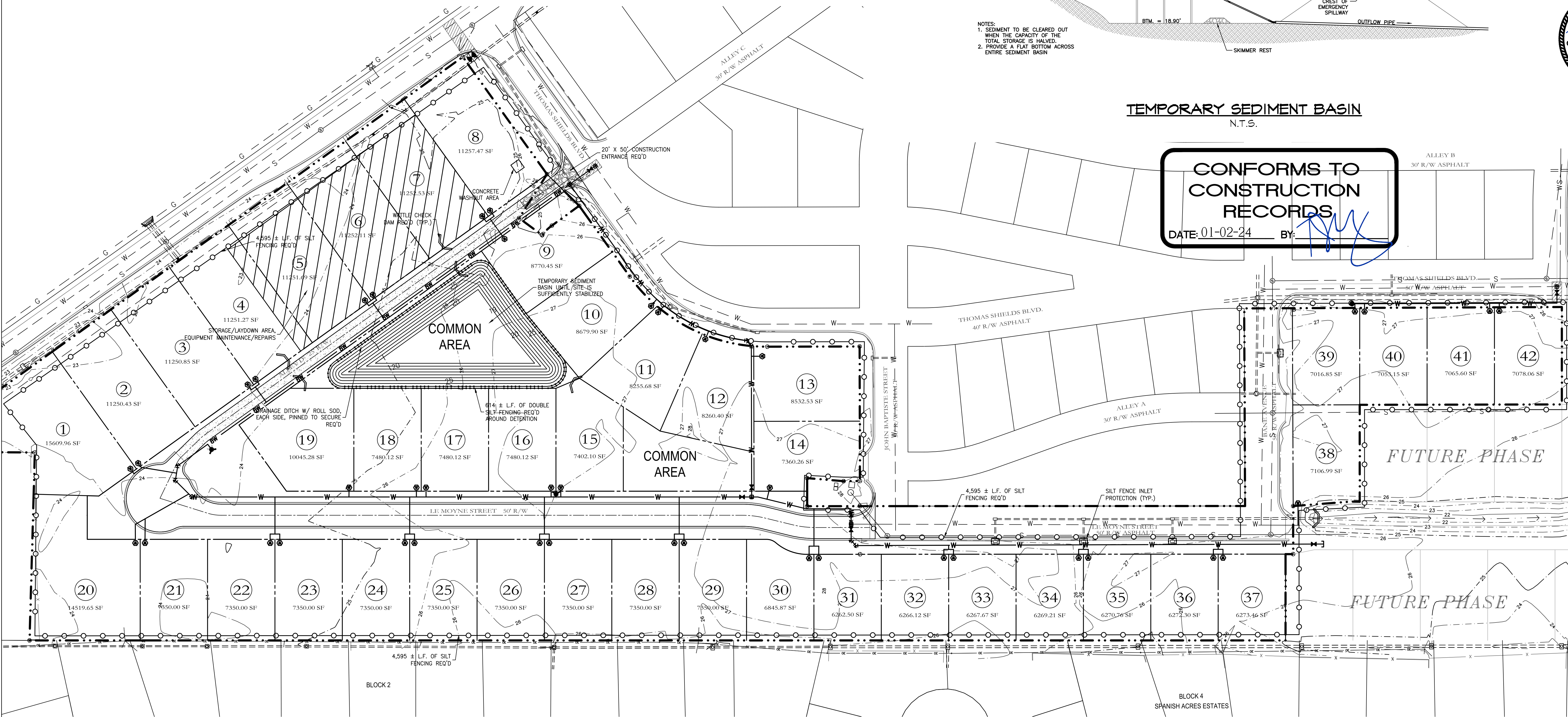
BOUNDARY AND TOPOGRAPHIC INFORMATION BASED ON SURVEY BY CROSBY SURVEYING, DATED:12/9/19

SUBJECT PROPERTY LIES WITHIN "X" & FLOOD ZONE SHOWN HEREON PER FEMA PANEL 28045C0361D DATED OCTOBER 16, 2009



TEMPORARY SEDIMENT BASIN
N.T.S.

CONFORMS TO
CONSTRUCTION
RECORDS
DATE: 01-02-24 BY: [Signature]



EROSION CONTROL PLAN

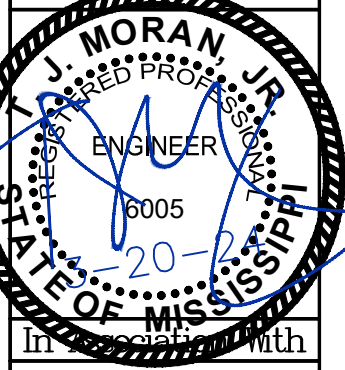
SCALE: 1" = 50'-0"

NOTE:
NO ON SITE SUPERVISION OR INSPECTIONS ARE PROVIDED WITH THE USE OF THESE PLANS BY THE DESIGNER. BUILDER/CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, CONDITIONS, AND SIZES OF COMPONENTS ALONG WITH SITE CONDITIONS BEFORE STARTING CONSTRUCTION. BUILDER/CONTRACTOR SHALL SEE THAT CONSTRUCTION IS IN CONFORMANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (I.B.C.) AND WITH THE COUNTY/CITY BUILDING INSPECTOR. THE USE OF THESE PLANS FOR CONSTRUCTION SHALL BE EVIDENCE THAT THE REQUIREMENTS STATED ARE ACCEPTED BY THE BUILDER/CONTRACTOR.

BEFORE UNDERTAKING EACH PART OF THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE PLANS & SPECIFICATIONS AND CHECK AND VERIFY PERTINENT FIGURES SHOWN THEREON AND ALL APPLICABLE FIELD MEASUREMENTS. IF ANY CONFLICTS, ERRORS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR IN THE FIELD, THE CONTRACTOR SHALL PROMPTLY REPORT IN WRITING TO THE ENGINEER OR HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK AFFECTED THEREBY.

TERRY MORAN, P.E., P.L.S.
P.O. Box 4075
Biloxi, MS 39263
Ph (228) 896-4783
Fax (228) 896-6768

TME
TERRY MORAN
ENGINEERING

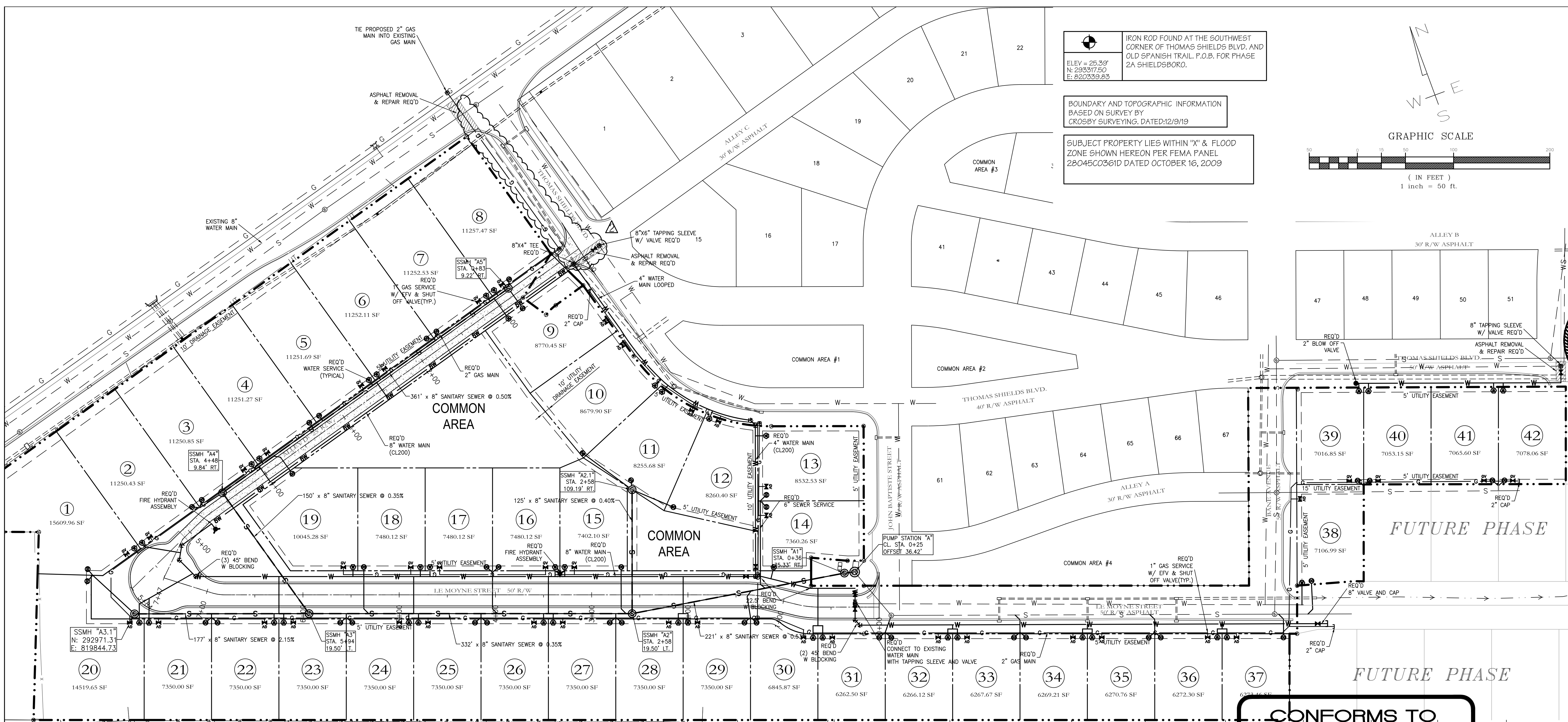


HEINRICH & ASSOCIATES
RESIDENTIAL & COMMERCIAL DESIGN
1806 23rd Avenue, Suite B - Gulfport, MS 39501
Ph (228) 996-6768

EROSION CONTROL PLAN
SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

Date: 6-20-21
Drawn By: CLV
Check By: TDL
REV

Sheet: C5
Project No: 20-006

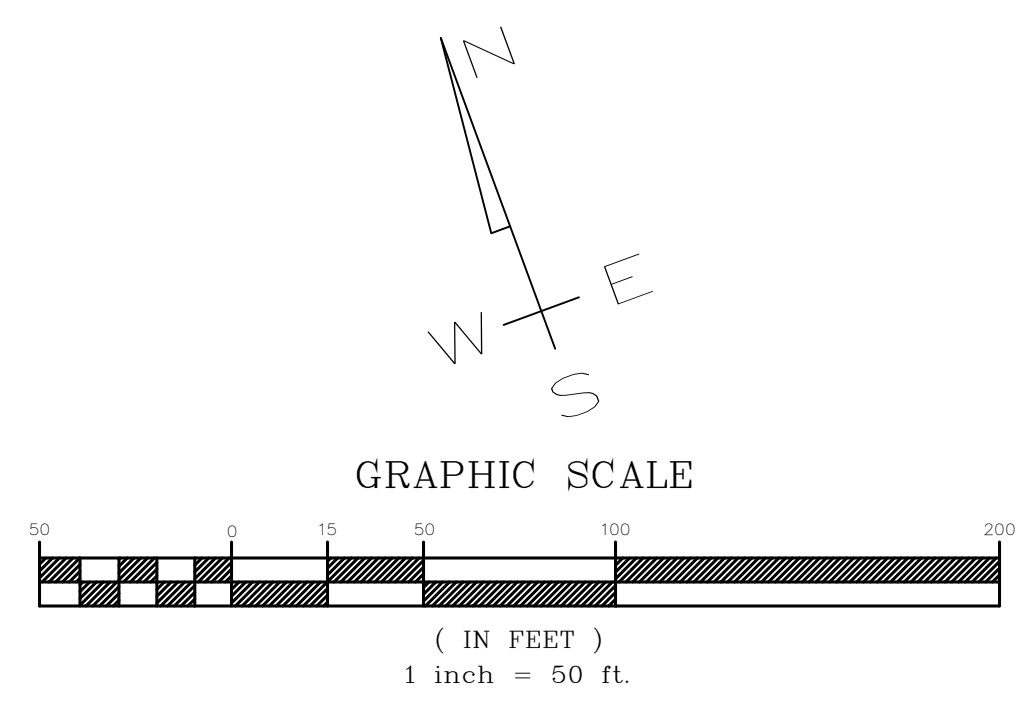


IRON ROD FOUND AT THE SOUTHWEST CORNER OF THOMAS SHIELDS BLVD. AND OLD SPANISH TRAIL. P.O.B. FOR PHASE 2A SHIELDSBORO.

ELEV = 25.39'
N: 293317.50
E: 820359.83

BOUNDARY AND TOPOGRAPHIC INFORMATION BASED ON SURVEY BY CROSBY SURVEYING, DATED: 12/9/19

SUBJECT PROPERTY LIES WITHIN "X" & FLOOD ZONE SHOWN HEREON PER FEMA PANEL 28045C0361D DATED OCTOBER 16, 2009



TERRY MORAN, P.E., P.L.S.
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TME
TERRY MORAN
ENGINEERING

Professional Engineer Seal: Terry Moran, No. 0005, State of Mississippi, expires 12/31/2019.

SANITARY SEWER STRUCTURE SUMMARY:

NODE	TOP	INVERT	STATION	OFFSET	TYPE
A	27.3'	13.71'	0+25	36.4' RT.	EX PS
A1	27.3'	13.76'	0+36	35.3' RT.	SSMH
A2	27.5'	14.94'	2+58	19.5' LT.	SSMH
A2.1	26.4'	19.73'	2+58	109.2' RT.	SSMH
A3	25.8'	16.11'	5+94	19.5' LT.	SSMH
A3.1	25.8'	20.00'			SSMH
A4	24.8'	16.65'	4+48	9.8' RT.	SSMH
A5	25.5'	18.48'	0+83	9.2' RT.	SSMH

PIPE SUMMARY: SSWR

TO	FROM	SIZE (IN.)	TYPE	LENGTH	UP INV.	DOWN INV.	SLOPE
A1	A	8	PVC	7'	13.76	13.71	0.50%
A2	A1	8	PVC	221'	14.94	13.76	0.53%
A2.1	A2	8	PVC	125'	19.73	19.22	0.40%
A3	A2	8	PVC	332'	16.11	14.94	0.35%
A3.1	A3	8	PVC	177'	20.00	16.11	2.15%
A4	A3	8	PVC	150'	16.65	16.11	0.35%
A5	A4	8	PVC	361'	18.48	16.65	0.50%

- LOCAL UTILITY COMPANIES**
1. WATER AND SEWER - CITY OF BAY ST. LOUIS 467-5505
 2. GAS SERVICE - CENTERPOINT ENERGY 896-7500
 3. TV CABLE SERVICE - SPARKLIGHT 864-1506
 4. ELECTRICAL SERVICE - MS POWER CO. 868-9800
 5. TELEPHONE SERVICE - AT&T 557-6000
 6. MISS I CALL BEFORE YOU DIG 1-800-227-6477

LEGEND

PROPOSED	EXISTING
— W —	--- W ---
— S —	--- S ---
— G —	--- G ---
— FM —	--- FM ---
— FOC —	--- FOC ---
⊙	⊙
⊕	⊕
⊙	⊙
⊕	⊕
⊕	⊕
⊕	⊕
⊕	⊕
⊕	⊕

CONFORMS TO CONSTRUCTION RECORDS

DATE: 03-08-24 BY: [Signature]

- NOTES:
1. ALL UTILITIES WORK AND CONNECTIONS ARE TO BE PROVIDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS OF THE UTILITY PROVIDING.
 2. ALL MATERIALS AND WORKMANSHIP UTILIZED WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM WITH APPLICABLE RIGHT-OF-WAY ORDINANCE AND REQUIREMENTS.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE FEDERAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, DURING AND CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
 4. SITE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES, HAVE EXISTING UTILITIES LOCATED PRIOR TO EXCAVATION
 5. CONTRACTOR SHALL FURNISH TREE PROTECTION FOR EXISTING TREES TO REMAIN AND SHALL BE RESPONSIBLE FOR MAINTAINING THEM THROUGHOUT CONSTRUCTION.
 6. ALL UTILITIES SHALL BE PLACED UNDERGROUND
 7. STREET LIGHTS WILL BE COORDINATED WITH LOCAL POWER COMPANY.

NOTE:
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UTILITY PLAN

SCALE: 1" = 50'-0"

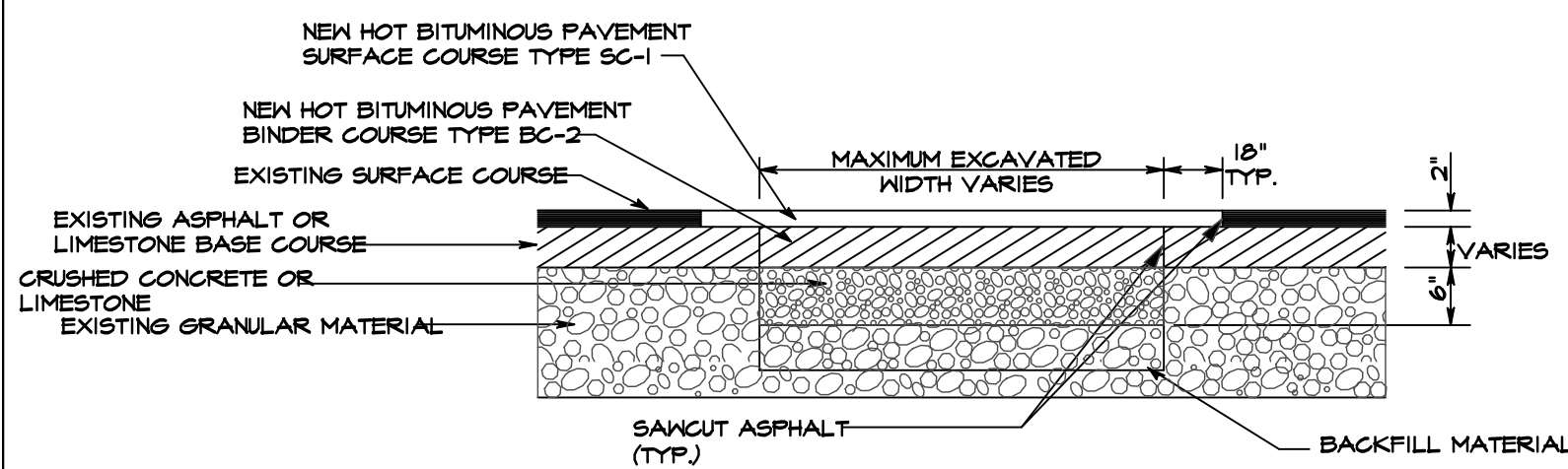
HEINRICH & ASSOCIATES
RESIDENTIAL & COMMERCIAL DESIGN
1806 23rd Avenue, Suite B - Gulfport, MS 39501
Ph (228) 896-6768

UTILITY PLAN
SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

Sheet: C6
Date: 6-20-21
Drawn By: CEV
Check By: TDL
REV: 1-9-23
3-17-23

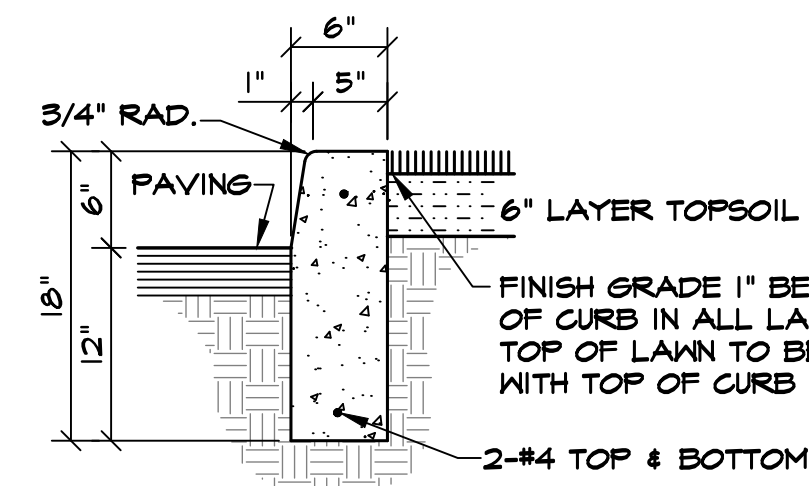
Project No: 20-006

PAVEMENT & DRAINAGE DETAILS



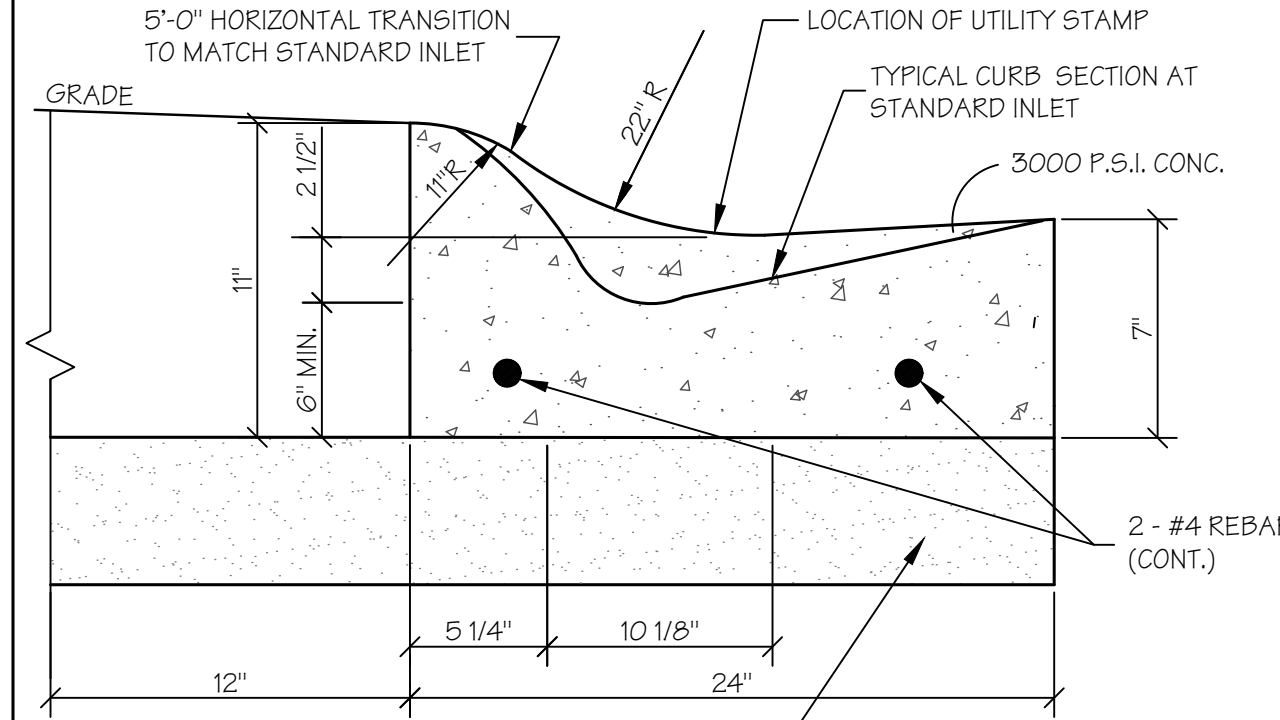
- NOTES:**
- EXISTING GRANULAR MATERIAL, NEW BACKFILL MATERIAL, AND NEW #10 LESTONE SHALL BE COMPACTED TO 100% PROCTOR PER ASTM D1557.
 - TACK COAT SHALL BE APPLIED WHERE NEW ASPHALT MEETS EXISTING ASPHALT.
 - REFER TO OTHER DETAILS FOR UTILITY PLACEMENT AND PAVEMENT MARKINGS AS APPLICABLE.
 - "MAXIMUM EXCAVATED WIDTH" REFERS TO THE MAXIMUM WIDTH THAT WILL BE USED FOR COMPUTATION OF APPLICABLE PAY ITEMS FOR BEDDING, BORROW FOR BACKFILL, LESTONE, OR PAVING. THE CONTRACTOR MAY EXCAVATE A WIDER TRENCH AT HIS OWN EXPENSE AS LONG AS THE TRENCH REMAINS WITHIN THE LIMITS OF THE CITY R.O.W., PROPERTY OR EASEMENT AND THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE APPROVES THE DIMENSIONS OF THE WIDER TRENCH. SEE UTILITY PLACEMENT DETAILS FOR "MAXIMUM EXCAVATED TRENCH WIDTH". LIMITS OF EXCAVATION FOR POINT REPAIRS SHALL BE DETERMINED IN THE FIELD BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

ASPHALT STREET REPAIR DETAIL
N.T.S.



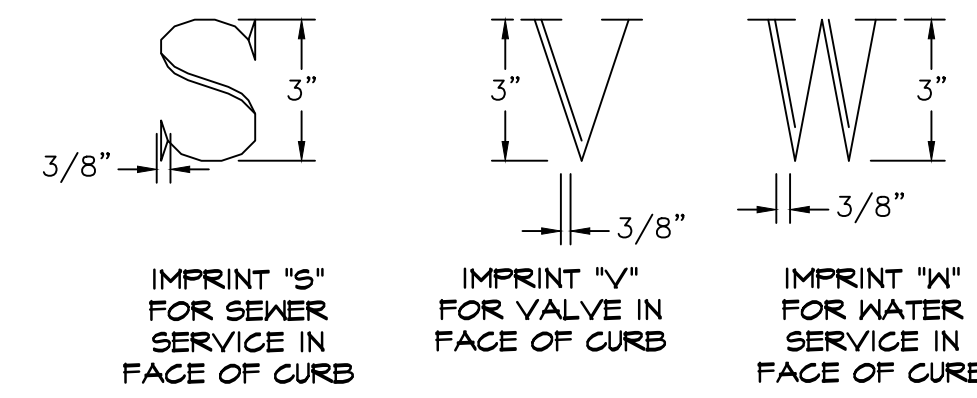
NOTE: 1/2" PREMOULDED EXPANSION JOINT REQ'D. @ 40' O.C. & SCORE @ 10' O.C.

FREE STANDING CURB
N.T.S.



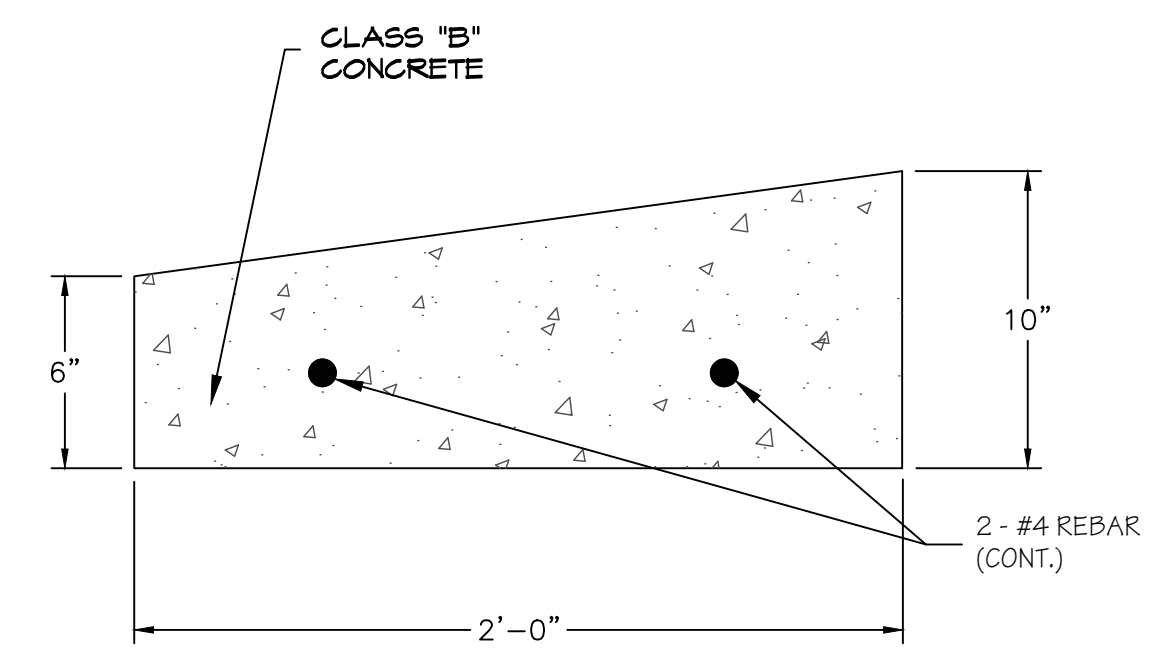
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR STAMPING INTO CURB THE LETTER "S" FOR SEWER AND THE LETTER "W" FOR WATER AT TIME OF POUR. LETTERS SHALL BE 3" TALL AND 1/2" DEEP INTO CURB. "W" SHALL BE PAINTED BLUE AND "S" SHALL BE PAINTED GREEN.

ROLLOVER CURB DETAIL
N.T.S.

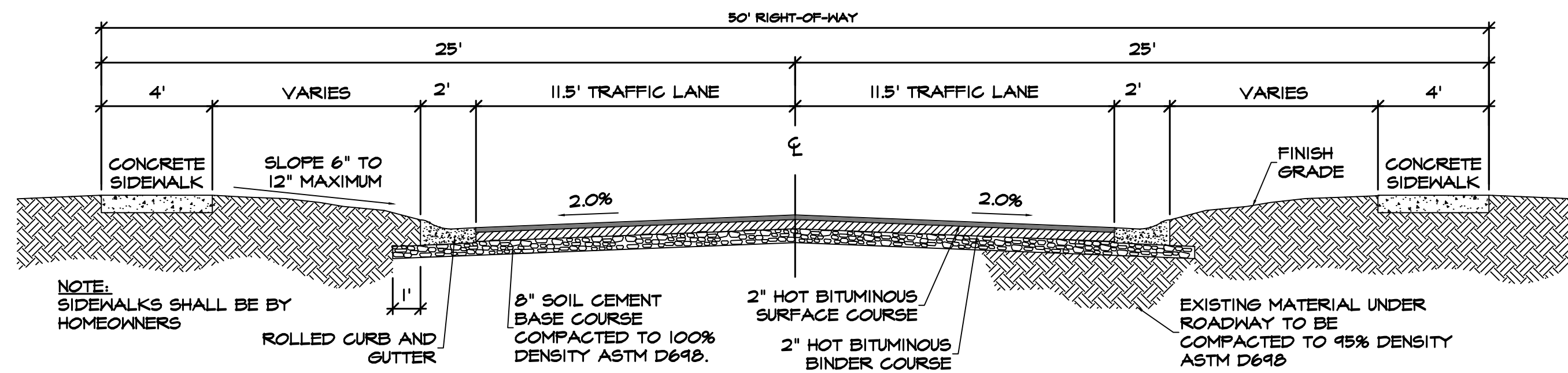


- NOTES:**
- LETTER "S", "W", AND "V" TO BE 1/2" DEEP.
 - CONTRACTOR SHALL STAMP CURB AT EACH SEWER AND WATER SERVICE LOCATION WITH STAMPING TOOL ON THE FACE OF THE CURB.
 - CONTRACTOR SHALL STAMP CURB AT EACH VALVE LOCATION WITH STAMPING TOOL ON THE FACE OF THE CURB. STAMP CURB ON BOTH SIDE OF THE STREET IF VALVE IS LOCATED WITHIN STREET. STAMP FACE OF ADJACENT CURB IF VALVE LOCATED OUTSIDE OF STREET.
 - STAMPING TOOL TO BE APPROVED PRIOR TO USE.

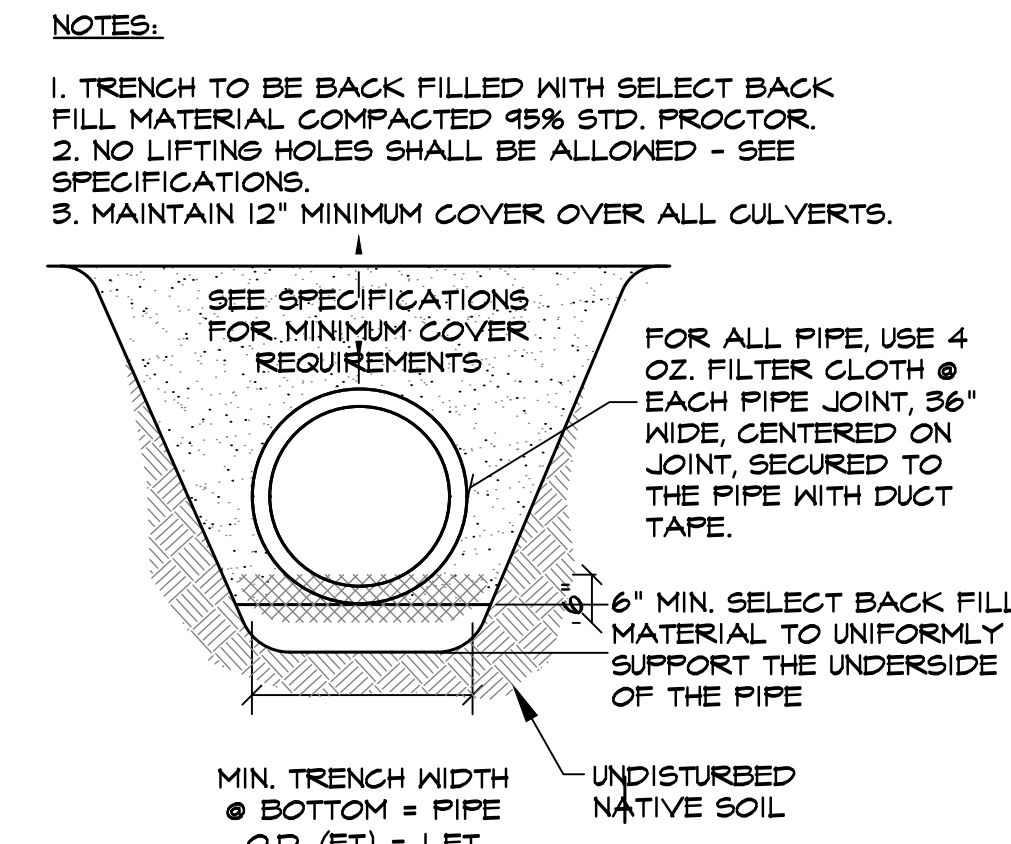
CURB STAMPING DETAIL
N.T.S.



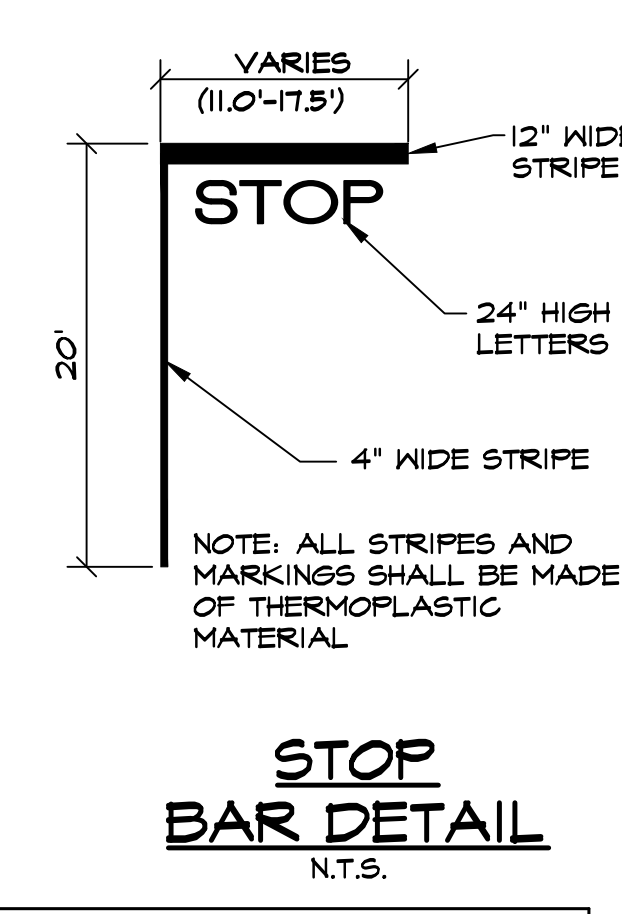
CROSS-SECTION OF RIBBON CURB FOR ISLANDS
N.T.S.



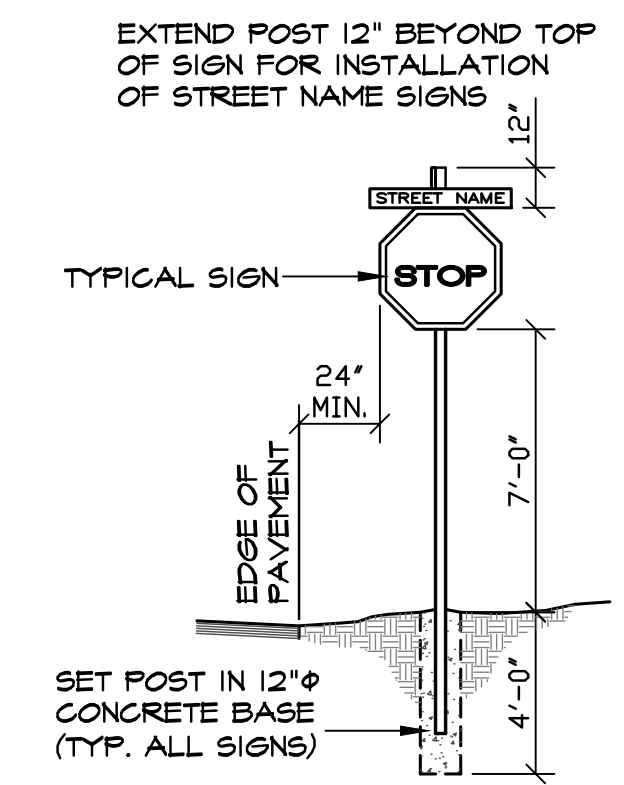
TYPICAL STREET SECTION
N.T.S.



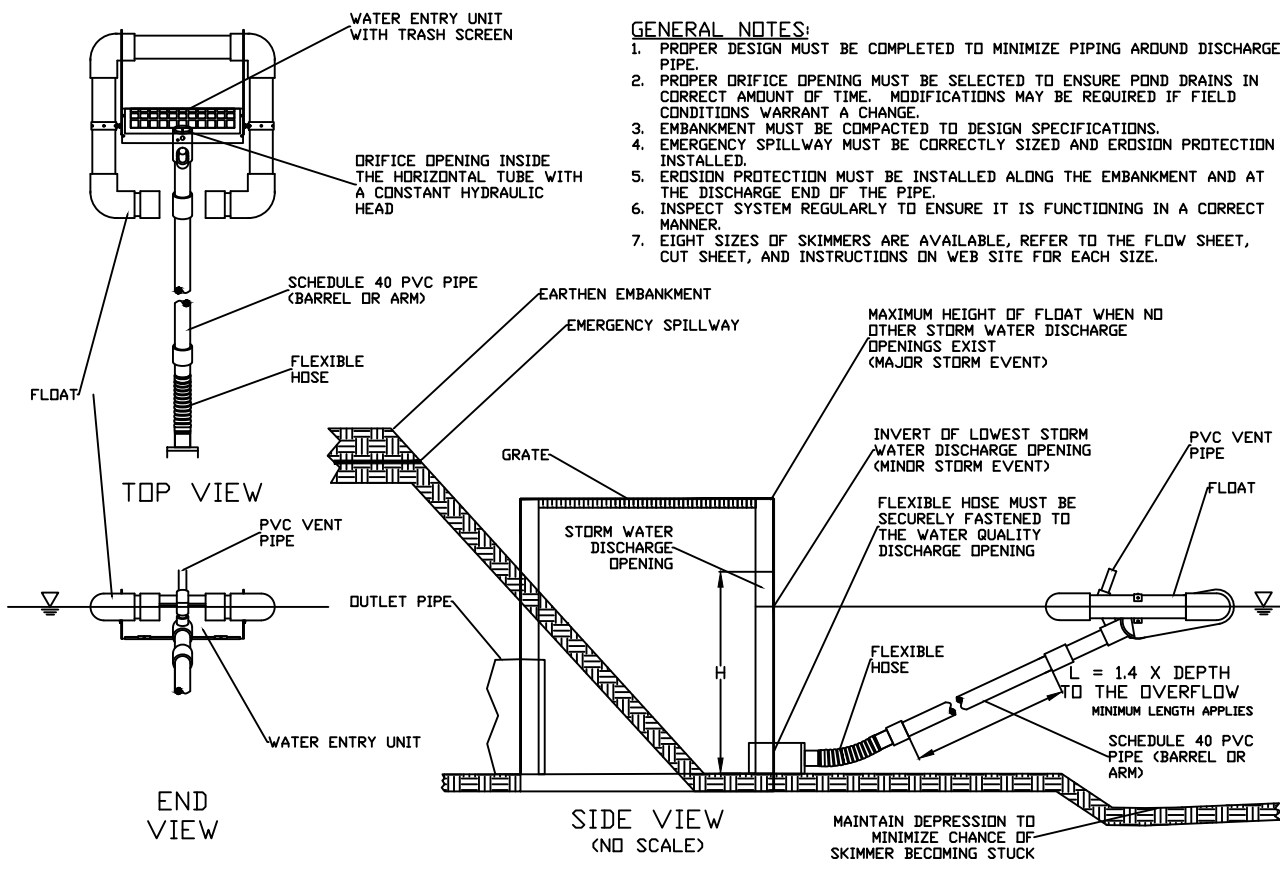
TYPICAL RCP BEDDING DETAIL
N.T.S.



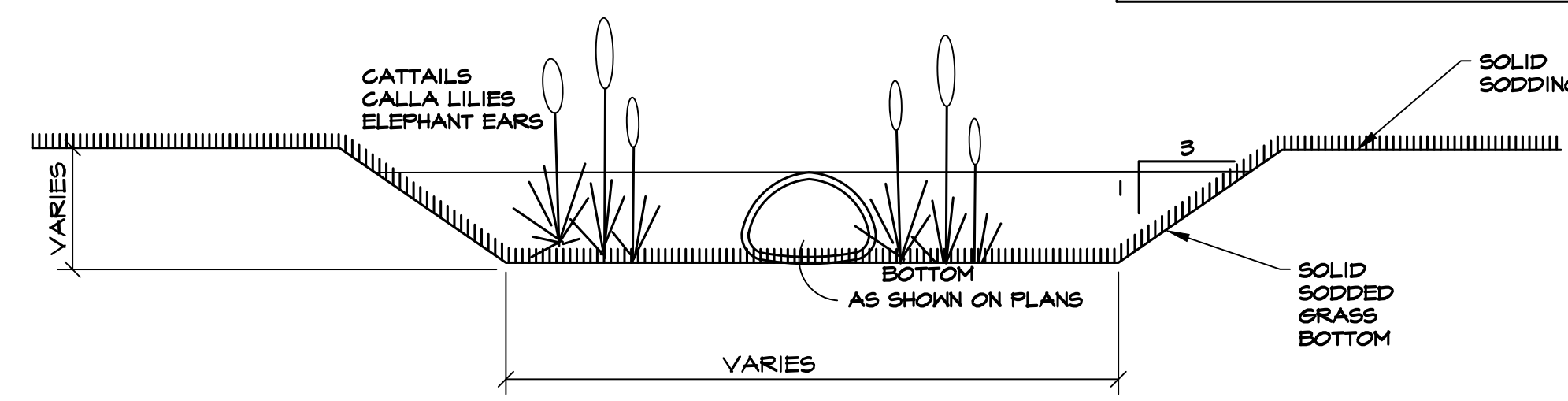
STOP BAR DETAIL
N.T.S.



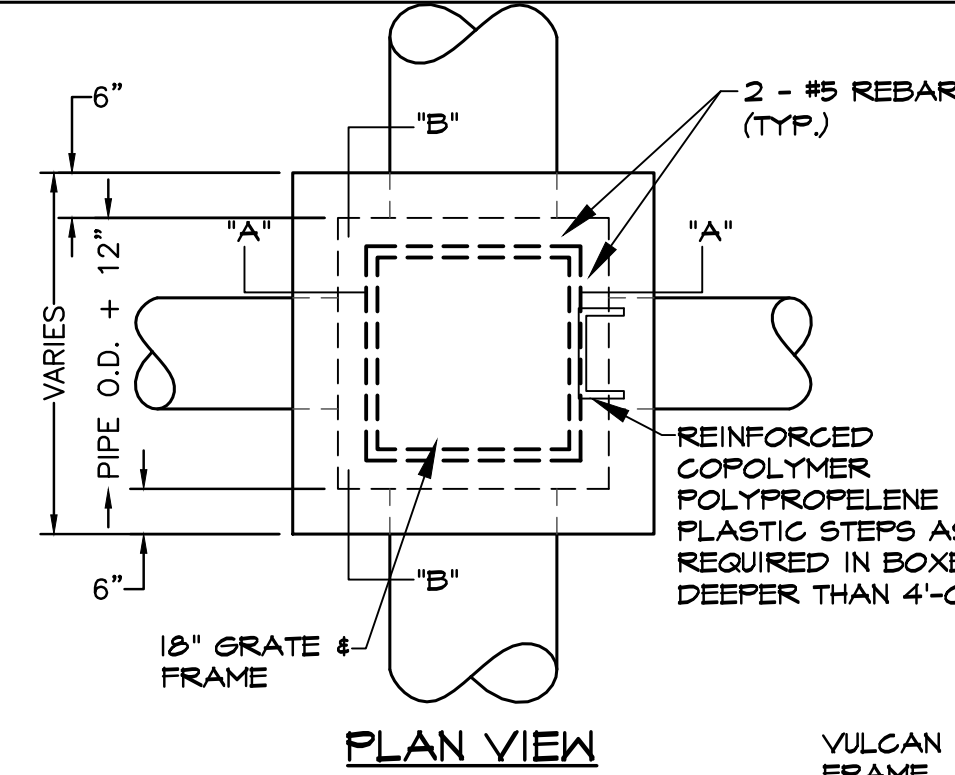
SIGN INSTALLATION DETAIL
N.T.S.



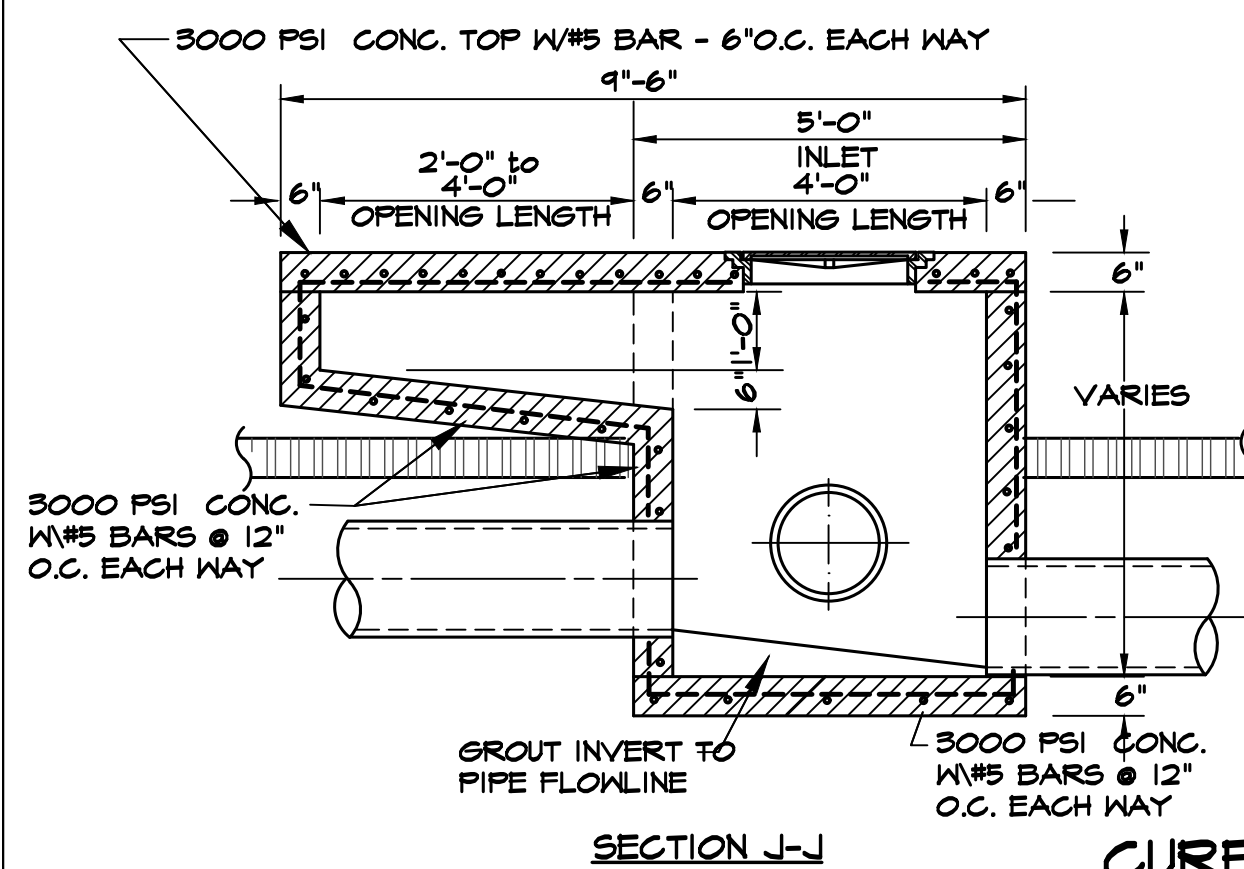
SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE
N.T.S.



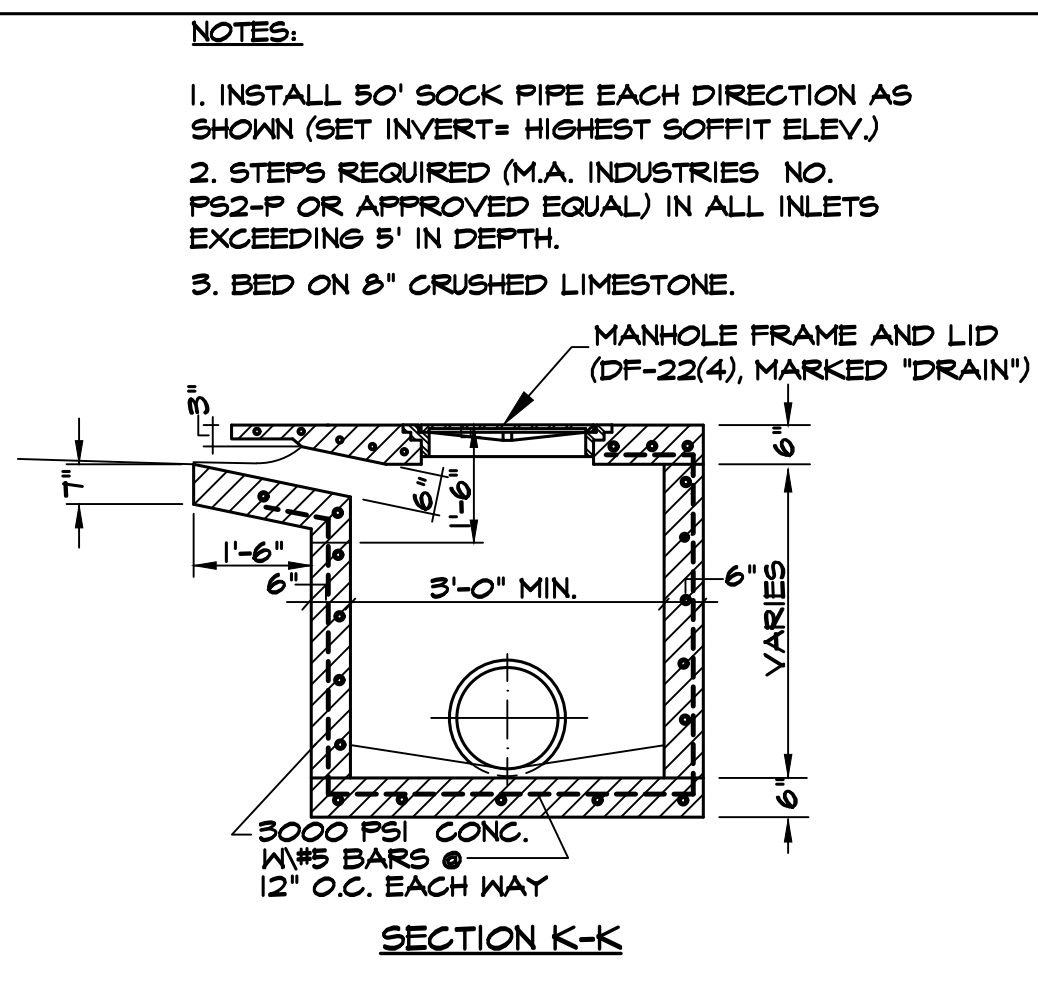
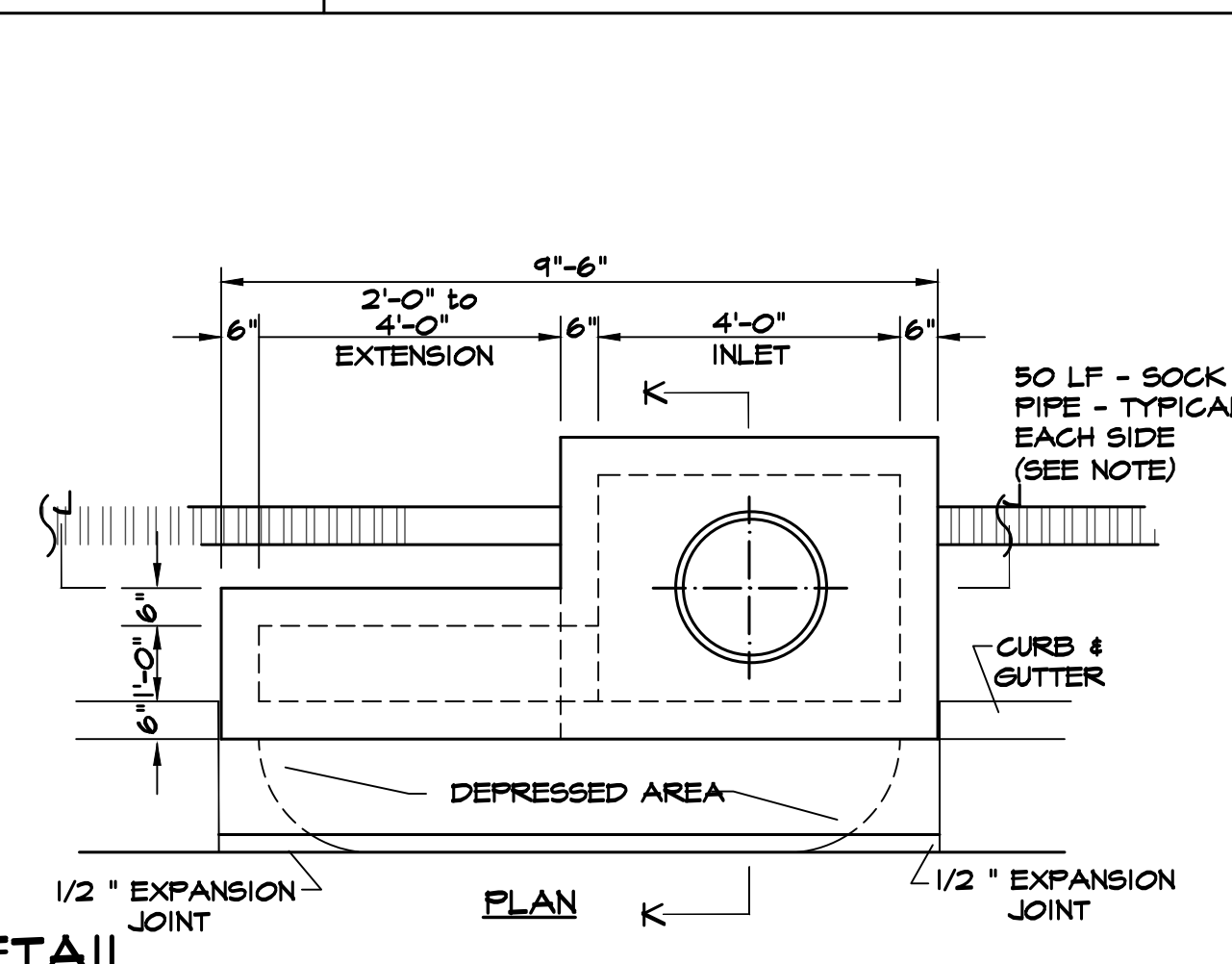
SECTION A-A: DETENTION POND CROSS SECTION (TYP.)
N.T.S.



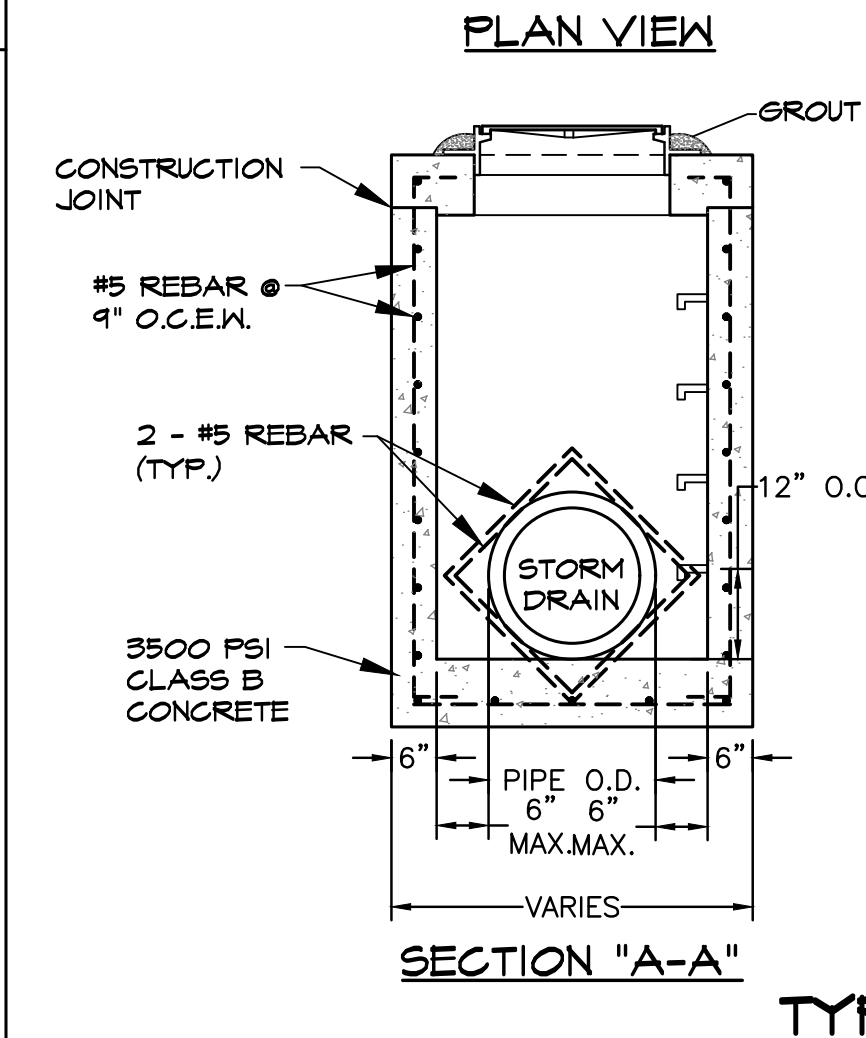
TYPICAL SWALE SECTION
N.T.S.



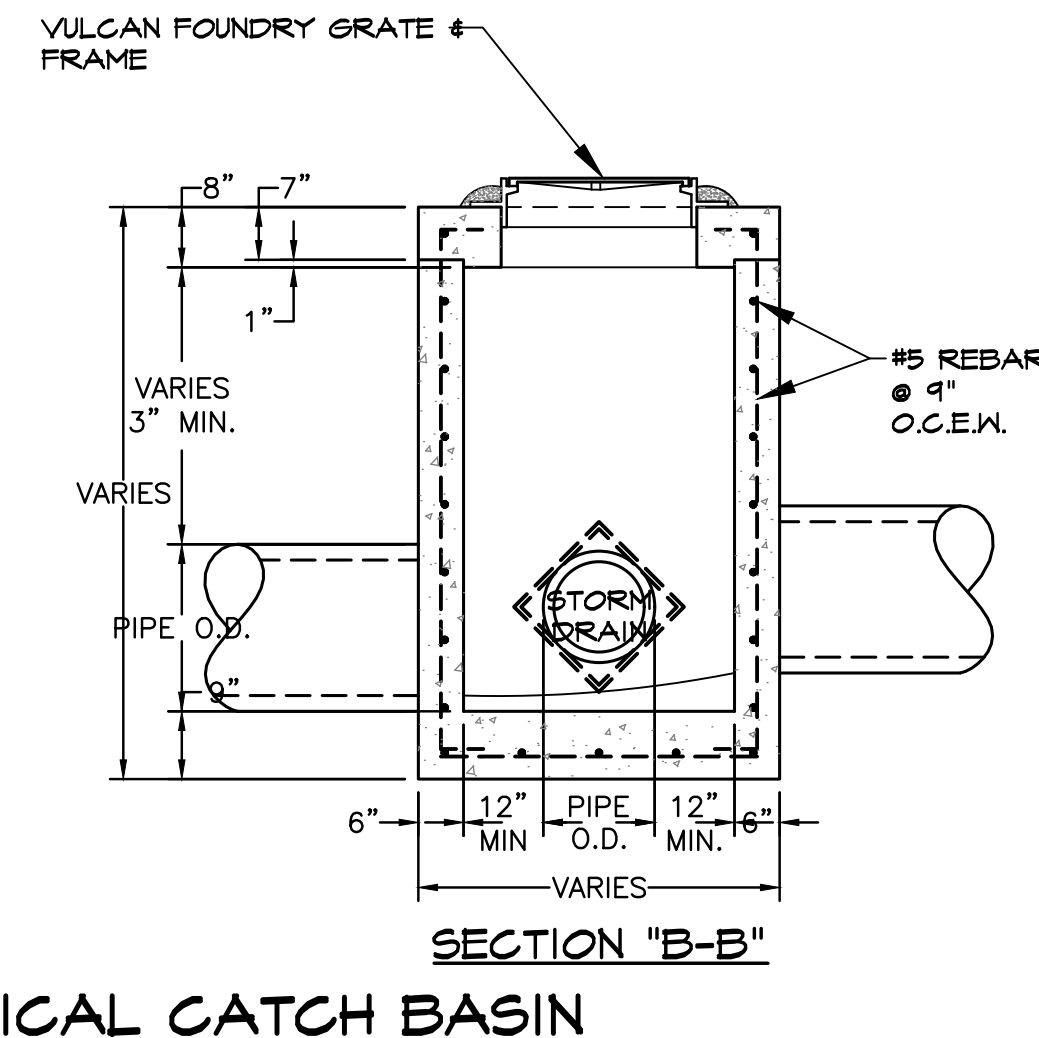
CURB INLET DETAIL
N.T.S.



SECTION K-K

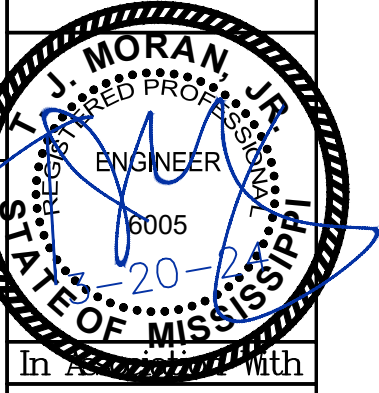


SECTION "A-A"



SECTION "B-B"

TYPICAL CATCH BASIN
N.T.S.

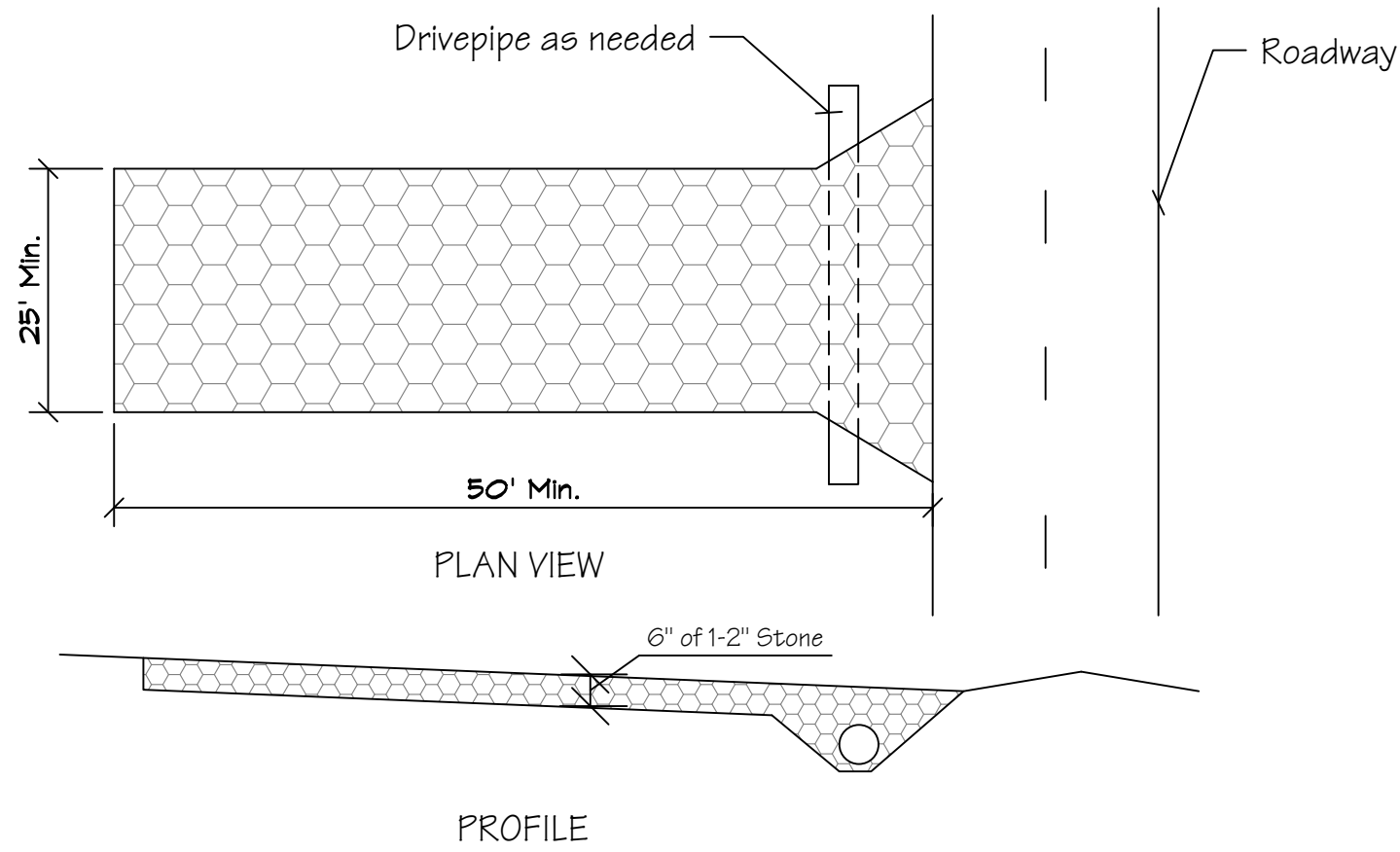


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CONSTRUCTION DETAILS
SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

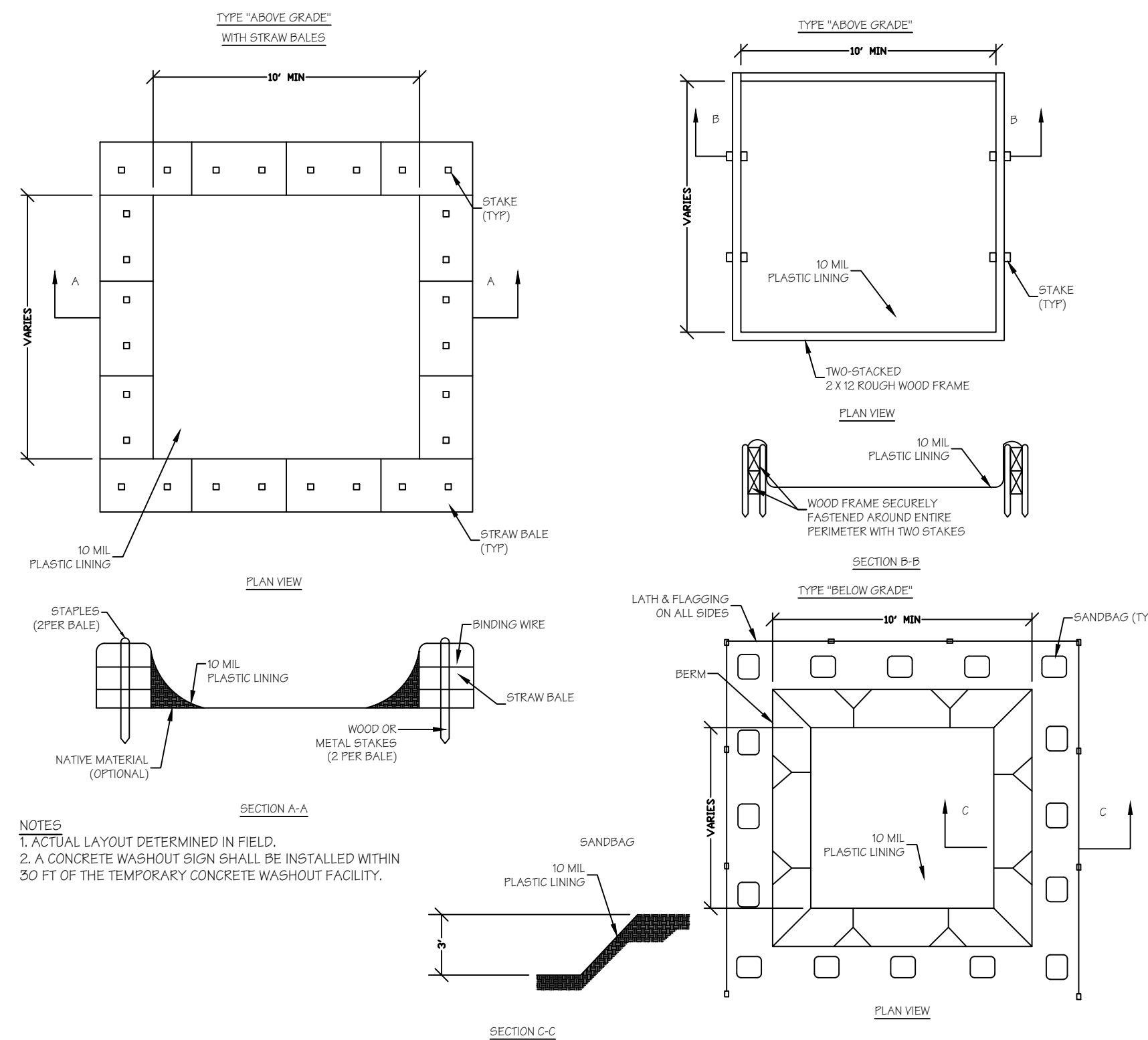
Sheet No. **CD1**
Date: 6-20-21
Drawn By: CEV
Check By: TDL
REV
Project No. 20-006

EROSION CONTROL DETAILS



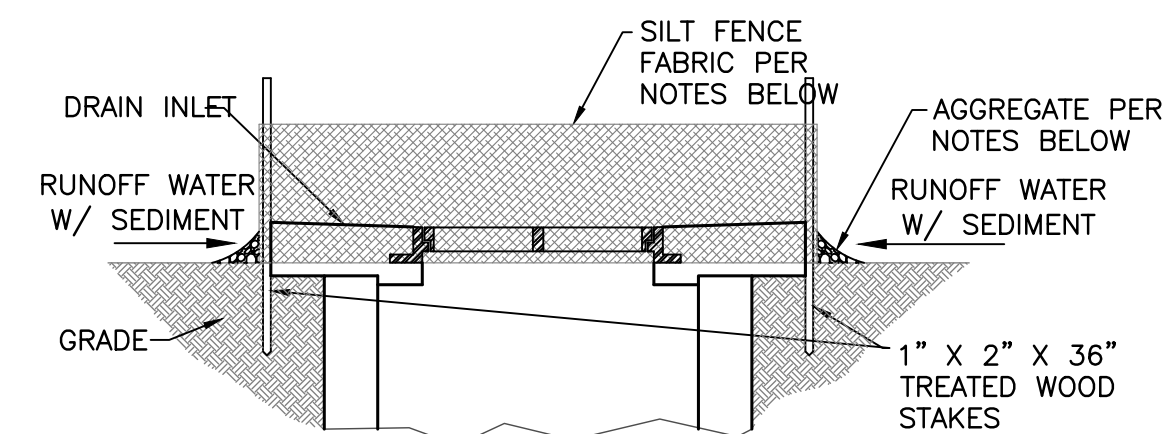
- Stone Size - Two-inch stone shall be used, or recycled concrete equivalent.
- Length - The construction entrance shall be as required to stabilize high traffic areas but not less than 75 ft.
- Thickness - The stone layer shall be at least 6 in. thick.
- Width - The entrance shall be at least 20 ft. wide, but not less than the full width at points where ingress or egress occurs.
- Bedding - A geotextile shall be placed over the entire area prior to placing stone. It shall have a Grab Tensile Strength of at least 200 lb. and a mullen Burst Strength of at least 190 lb.
- Culvert - A pipe or culvert shall be constructed under the entrance if needed to prevent surface water flowing across the entrance from being directed out onto paved surfaces.
- Maintenance - Top dressing of additional stone shall be applied as conditions demand. Mud spilled, dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls shall be removed immediately. Removal shall be accomplished by scraping or sweeping.
- Construction Entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction site shall be restricted from muddy areas.

CONSTRUCTION ENTRANCE DETAIL
N.T.S.

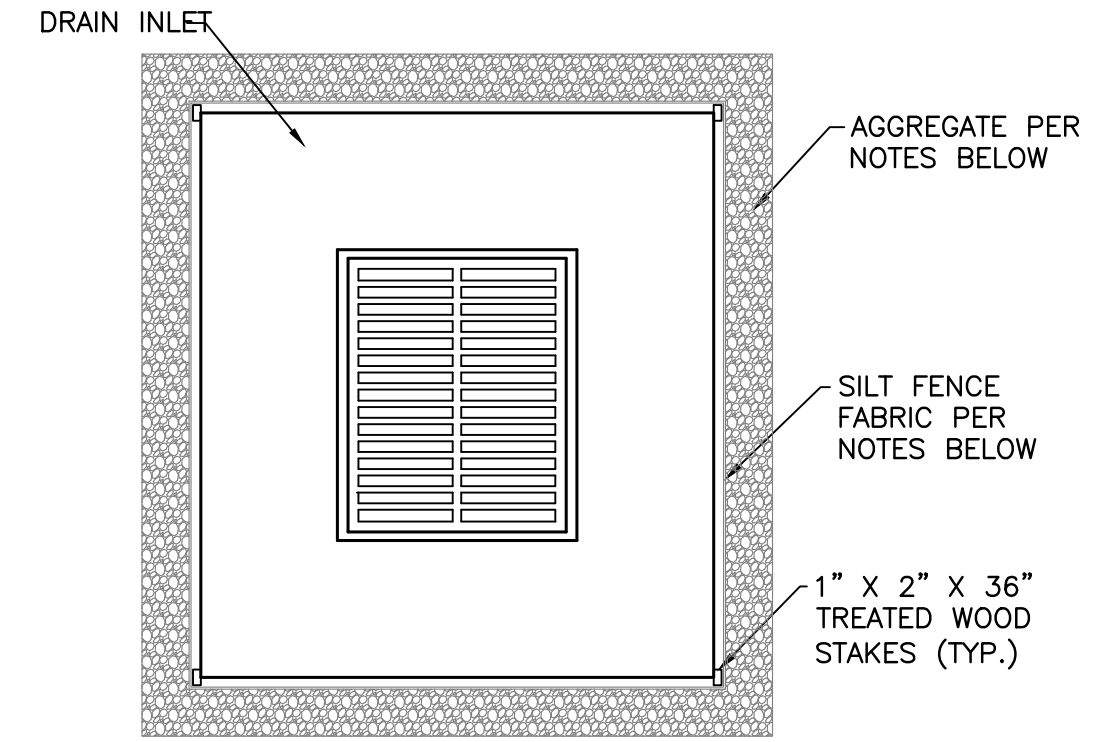


NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL
N.T.S.



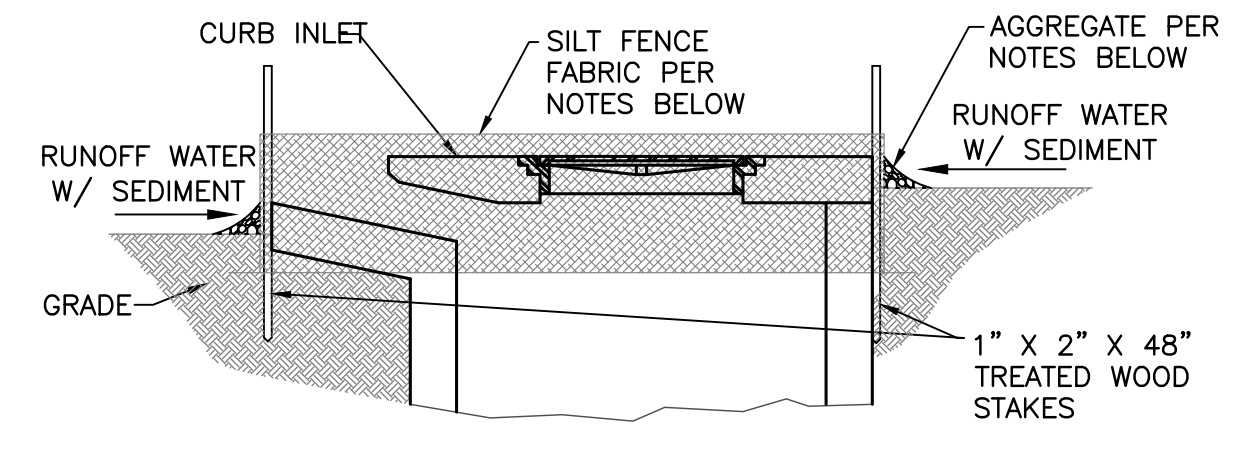
ELEVATION VIEW



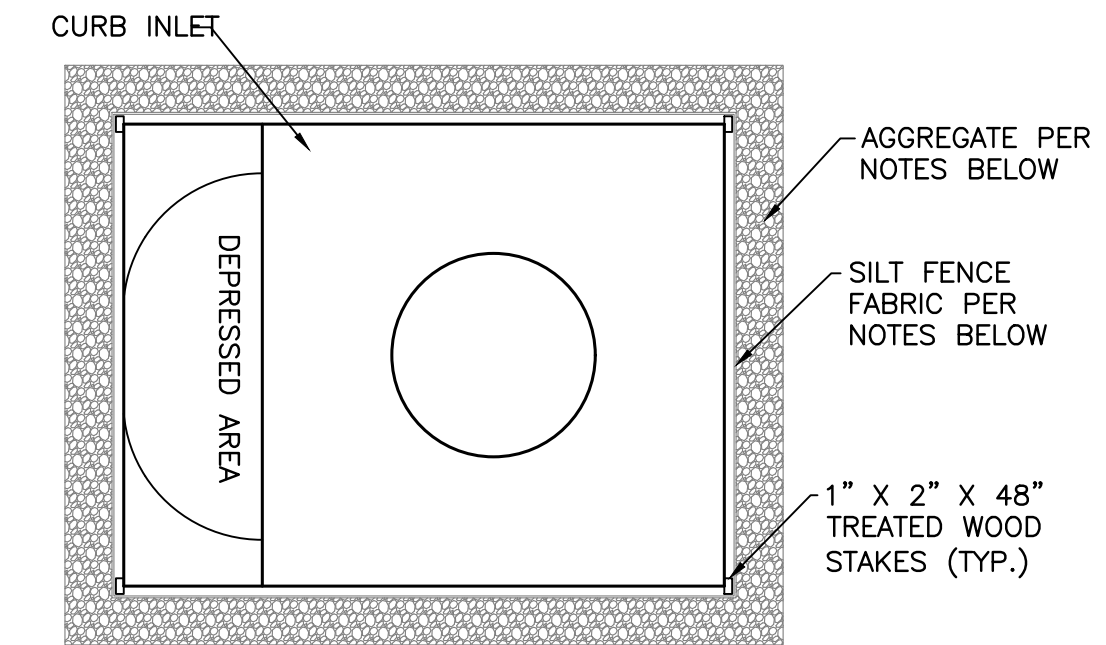
PLAN VIEW

- NOTES:
- FENCE SHALL BE 10 OUNCE PER SQUARE YARD AND SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID JOINTS
 - STAKES SHALL BE 1" X 2" TREATED WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
 - STAPLES SHALL BE OF HEAVY DUTY WIRE AT LEAST 1/2" LONG.
 - STAPLES SHALL BE SPACED AROUND PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND SECURELY DRIVEN INTO THE GROUND (MINIMUM OF 8").
 - A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND 4" DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
 - THE FABRIC SHALL BE STAPLED TO THE WOODEN STAKES, AND 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE HEIGHT OF THE FILTER BARRIER SHALL BE A MINIMUM OF 15" AND SHALL NOT EXCEED 18".
 - TRENCH SHALL BE 8" WIDE X 4" DEEP AND FILLED WITH DOT NO. 1 COARSE AGGREGATE TO PREVENT EROSION WHERE GRADE MEETS FENCE.

SILT FENCE INLET
SEDIMENT FILTER FOR
DRAIN INLET DETAIL
N.T.S.



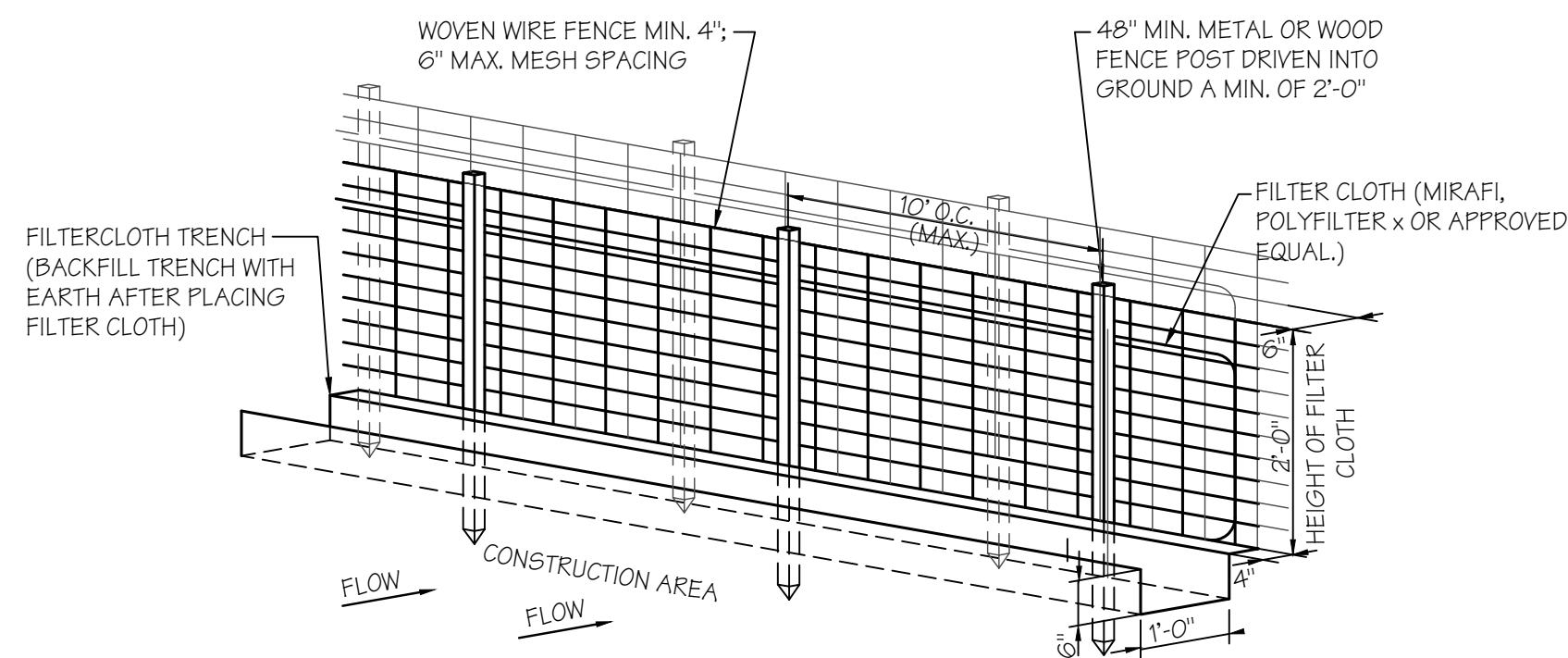
ELEVATION VIEW



PLAN VIEW

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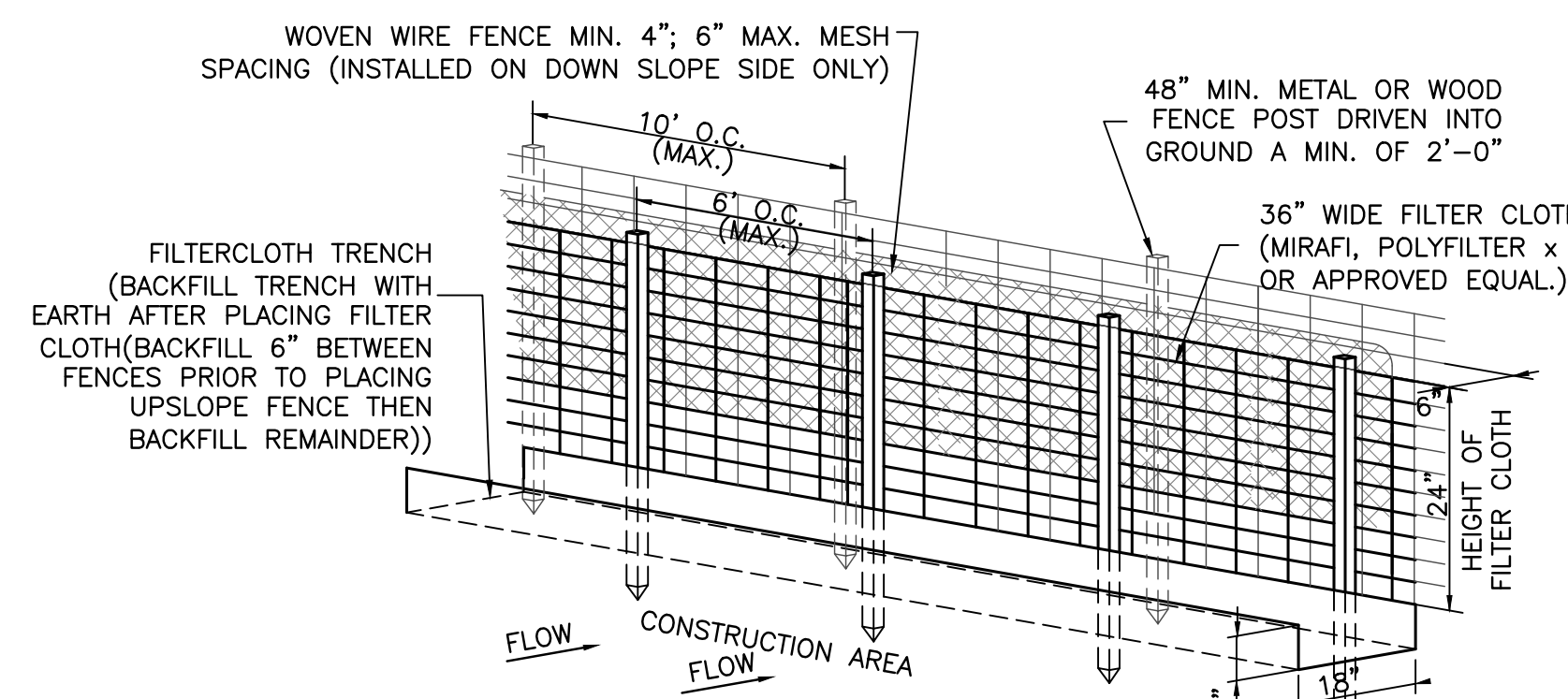
SILT FENCE INLET SEDIMENT
FILTER FOR CURB INLET
DETAIL
N.T.S.



SINGLE LAYER SILT FENCE DETAIL
N.T.S.

CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS BY USE OF WIRE TIES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE BY USE OF WIRE TIES SPACED EVERY 24" X 24".
- SILT FENCES TO BE INSTALLED IN LOCATIONS AS SHOWN ON THIS EROSION AND SEDIMENT CONTROL PLAN PRIOR TO BEGINNING OF CONSTRUCTION TO CONTROL SEDIMENT.
- SILT FENCES TO BE MAINTAINED AND CLEANED AS NECESSARY TO MAINTAIN IN FUNCTIONAL CONDITION.
- SILT FENCES TO BE REMOVED AND THE AREA TO BE RESTORED TO ITS NATURAL CONDITION WHEN PERMANENT EROSION AND SEDIMENT CONTROL PROCEDURES ARE EFFECTIVE.



DOUBLE LAYER SILT FENCE DETAIL
N.T.S.

CONSTRUCTION SPECIFICATIONS

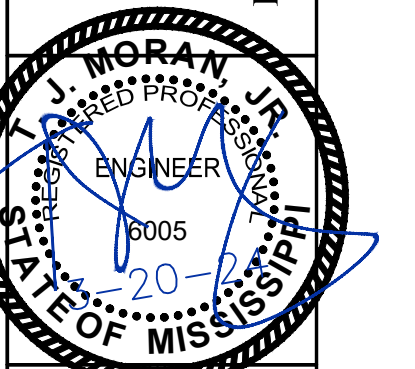
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS BY USE OF WIRE TIES.
- 36" WIDE FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE BY USE OF WIRE TIES SPACED EVERY 24" X 24".
- SILT FENCES TO BE INSTALLED IN LOCATIONS AS SHOWN ON THE EROSION CONTROL PLAN PRIOR TO BEGINNING CONSTRUCTION TO CONTROL SEDIMENT RUNOFF.
- SILT FENCES TO BE MAINTAINED AND CLEANED AS NECESSARY TO MAINTAIN IN FUNCTIONAL CONDITION.
- SILT FENCES TO BE REMOVED AND THE AREA TO BE RESTORED TO ITS NATURAL CONDITION WHEN PERMANENT EROSION AND SEDIMENT CONTROL PROCEDURES ARE EFFECTIVE.

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SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

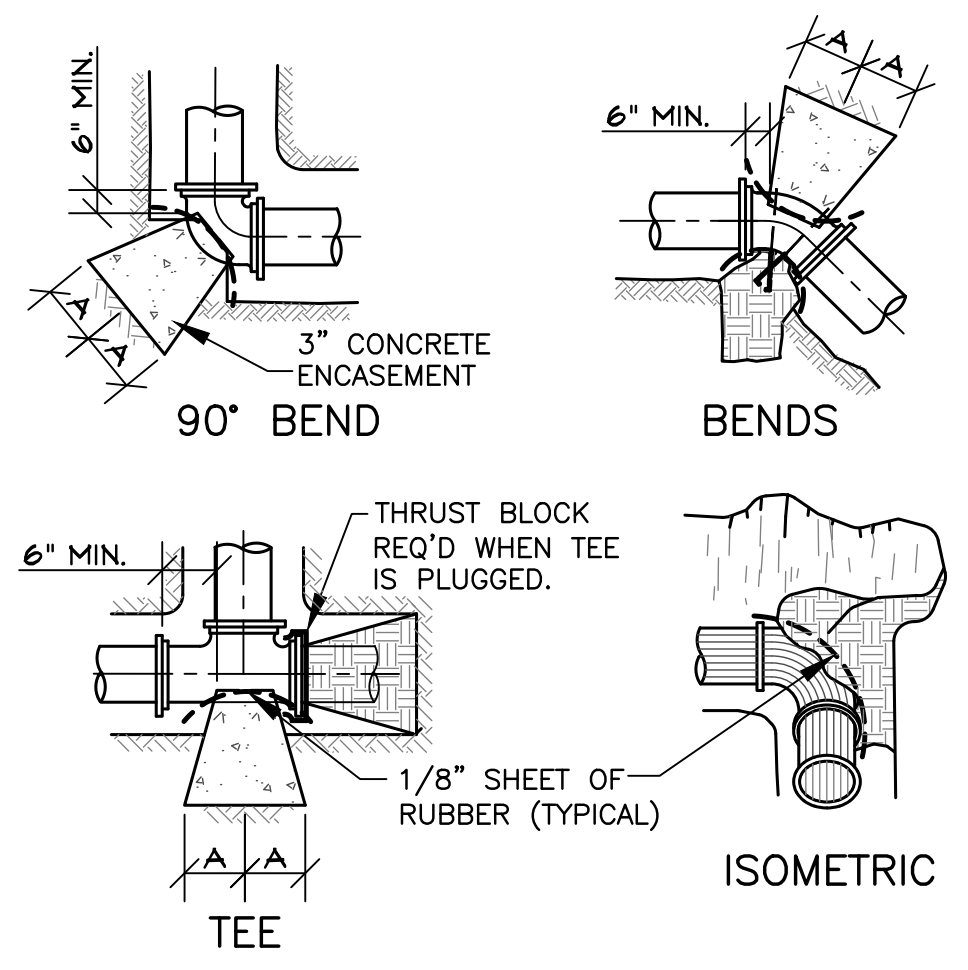
Date 6-20-21
Drawn By CEV
Check By TDL
REV

Sheet 20-006
Project No 20-006



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TERRY MORAN
ENGINEERING & SURVEYING

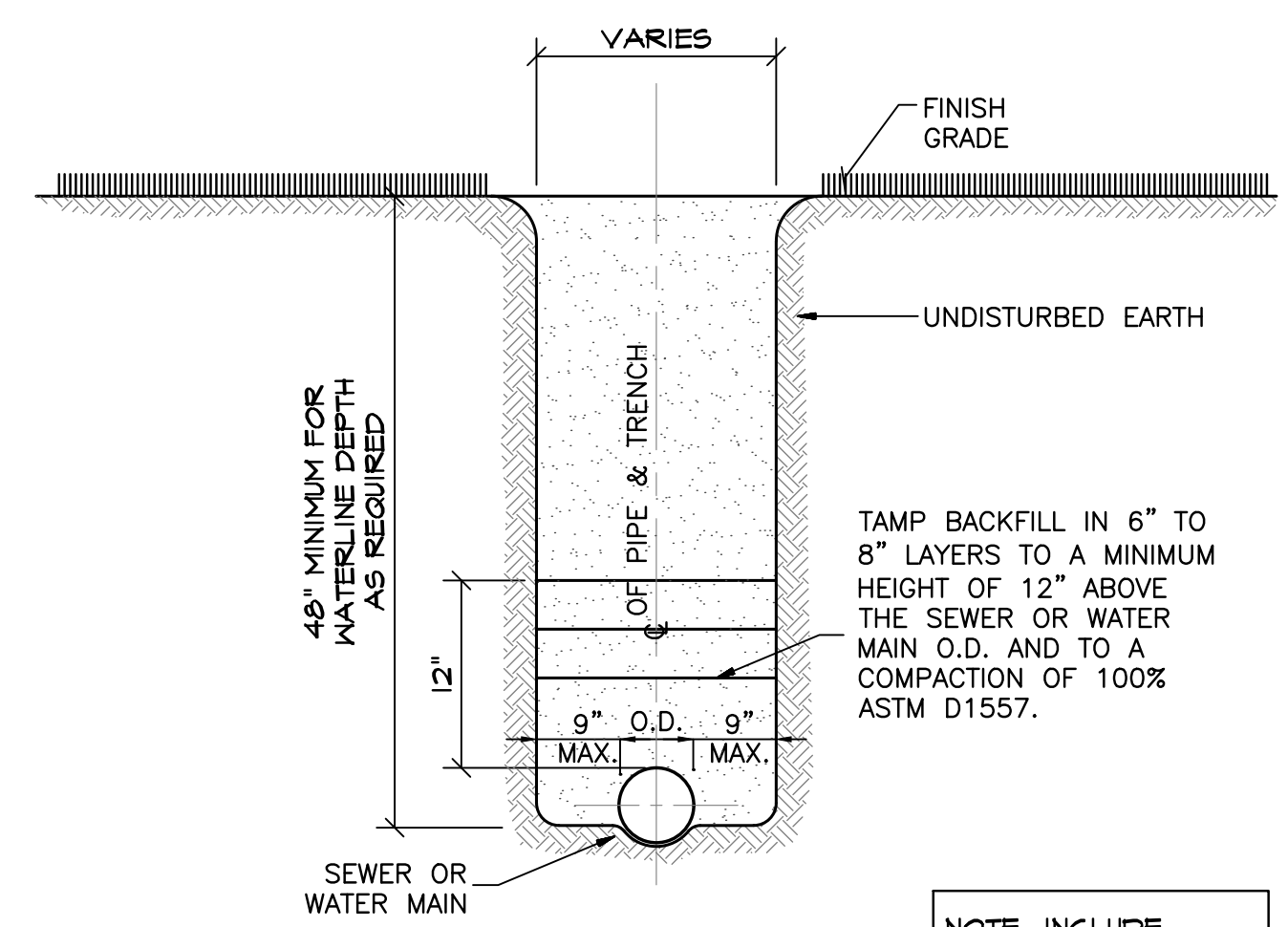
WATER DETAILS



NOTES:
 1. ALL DIMENSIONS ARE IN INCHES.
 2. USE ON WATER LINES AND SEWER FORCE MAINS.
 3. ALL CONCRETE AND PIPE SHALL BE SEPARATE BY A NON-CONDUCTIVE MATERIAL (TYPICALLY 1/8" SHEET RUBBER).

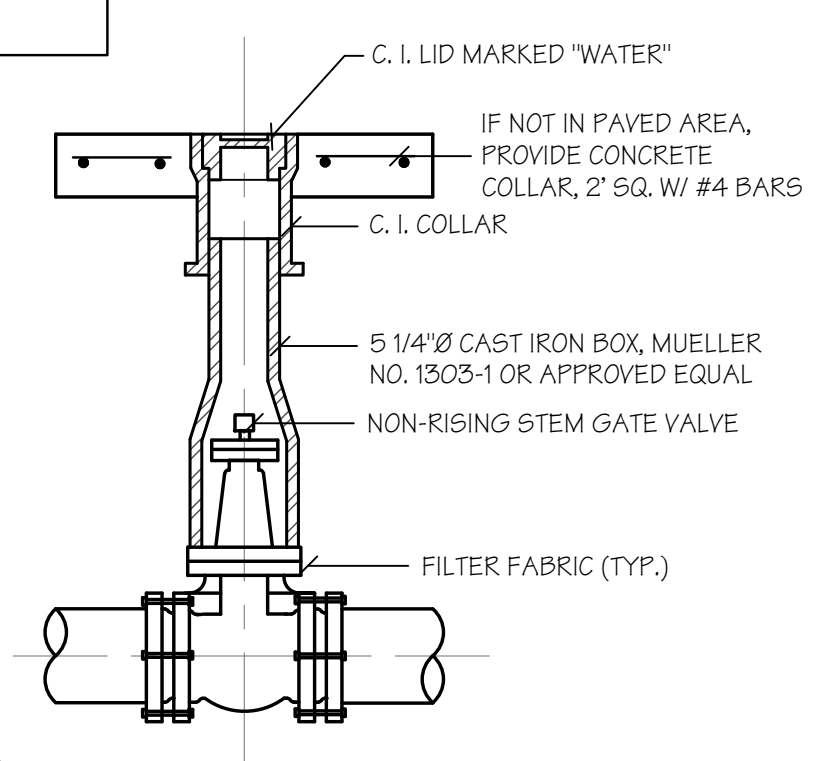
SOIL	SIZE	45° BEND		22-1/2° BEND		1-1/4° BEND		90° BEND		TEE		PLUG	
		A	B	A	B	A	B	A	B	A	B		
4000 PSF	6"	8	10	6	8	3	8	10	10	8	8	10	15
	8"	12	12	8	10	5	9	15	12	9	12	20	20
	10"	16	14	10	12	6	10	20	14	11	14	25	25
	12"	19	16	12	14	8	11	24	16	14	16	30	30
	14"	23	18	14	16	10	12	24	18	16	18	35	35
2000 PSF	6"	26	20	16	18	11	13	30	20	18	20	38	38
	8"	16	10	9	10	6	8	18	10	10	12	21	21
	10"	22	13	12	13	8	10	25	13	16	12	29	29
	12"	26	17	14	17	10	13	30	17	16	20	36	36
	14"	29	21	16	21	11	16	34	21	18	24	41	41
	16"	35	24	19	24	12	20	36	24	22	27	48	48
	16"	38	27	21	27	12	24	42	27	24	30	54	54

THRUST BLOCKING
N.T.S.



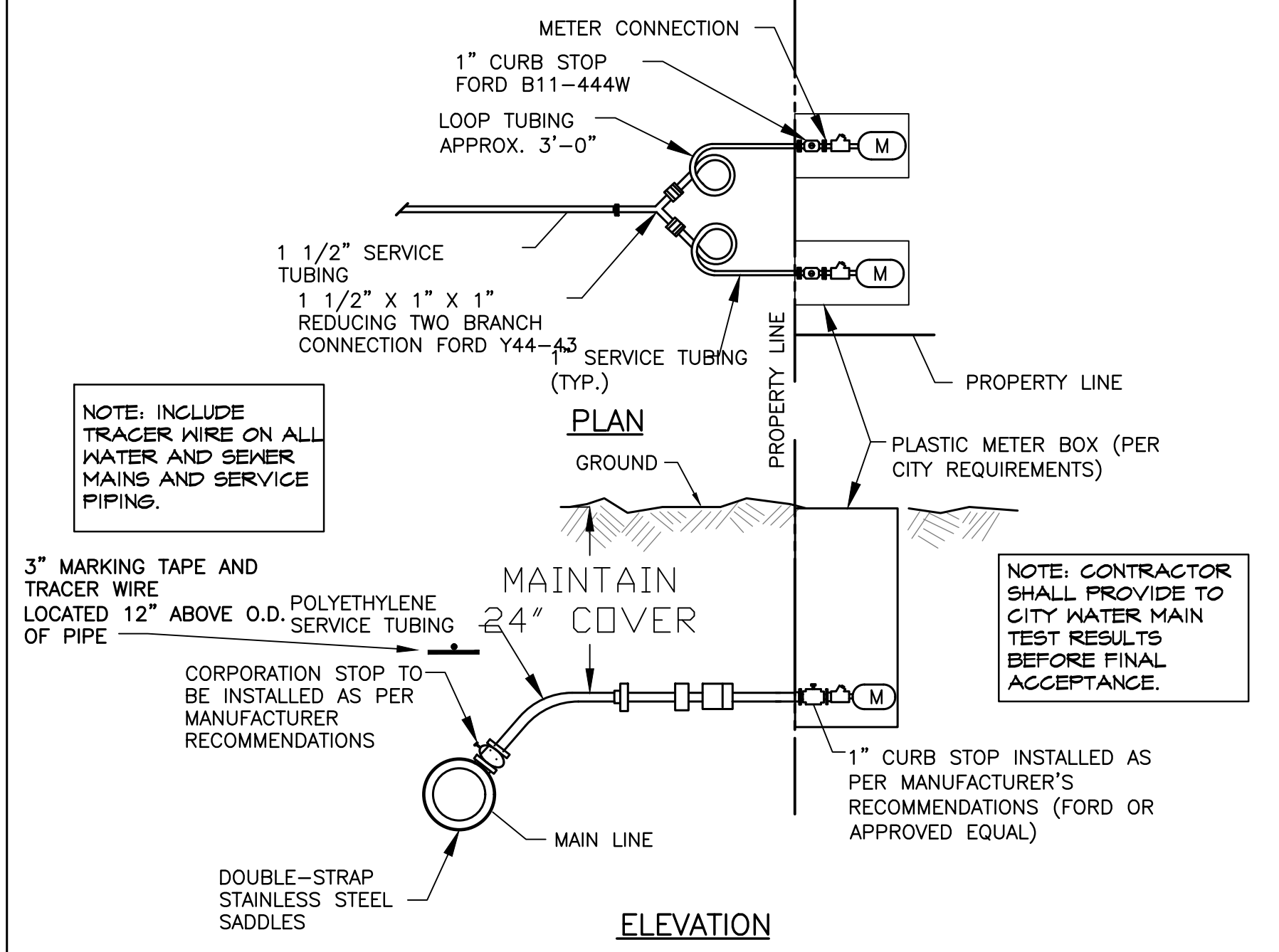
NOTE: CONTRACTOR SHALL PROVIDE TO CITY SEWER VIDEOS BEFORE FINAL ACCEPTANCE.

NOTE: INCLUDE TRACER WIRE ON ALL WATER AND SEWER MAINS AND SERVICE PIPING.



NOTES:
 1. VALVE BOX SECTIONS SHALL BE OF THE ADJUSTABLE SCREW TYPE.
 2. FURNISH CAST IRON VALVE BOX EXTENSIONS AS REQUIRED.

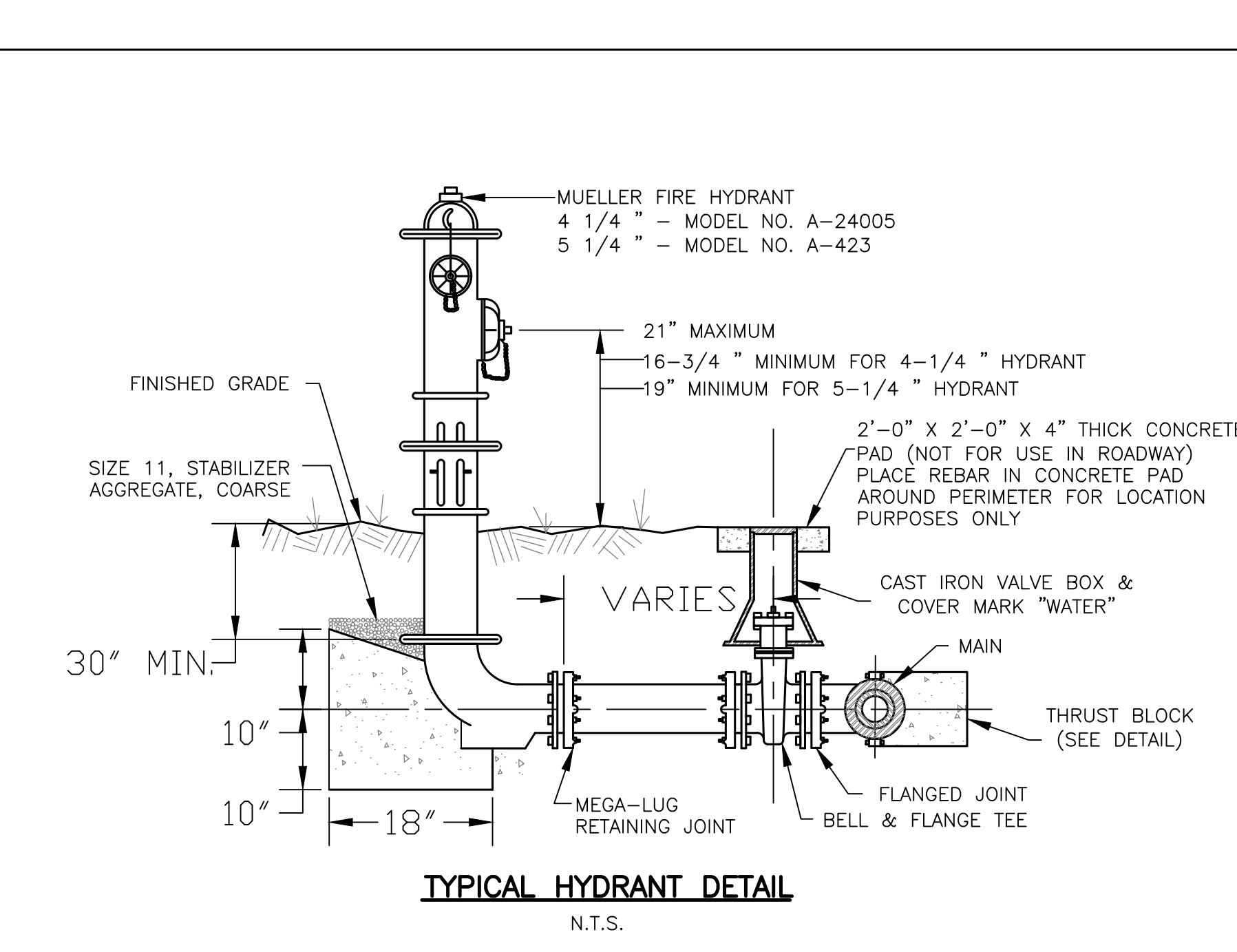
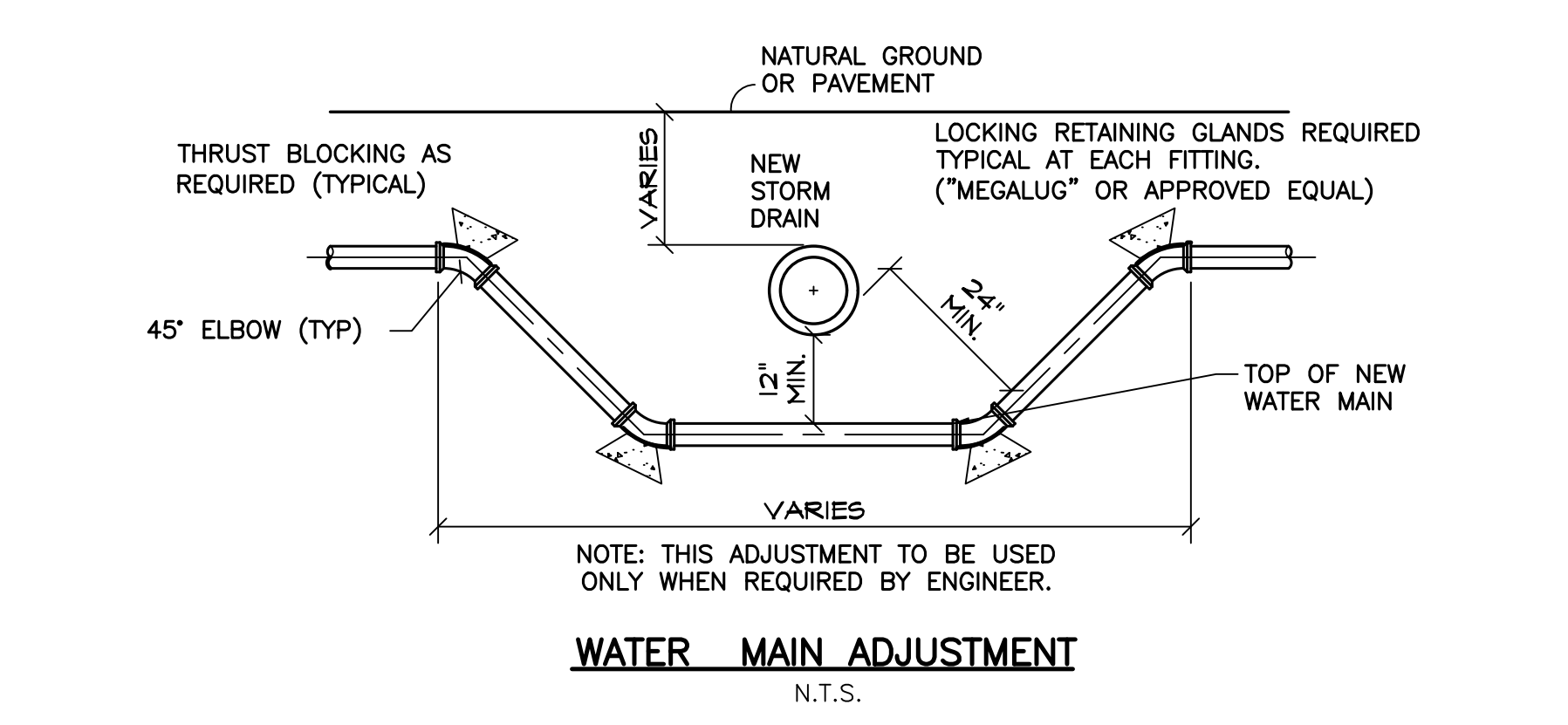
GATE VALVE BOX & COVER DETAIL
N.T.S.



NOTE: CONTRACTOR SHALL PROVIDE TO CITY WATER MAIN TEST RESULTS BEFORE FINAL ACCEPTANCE.

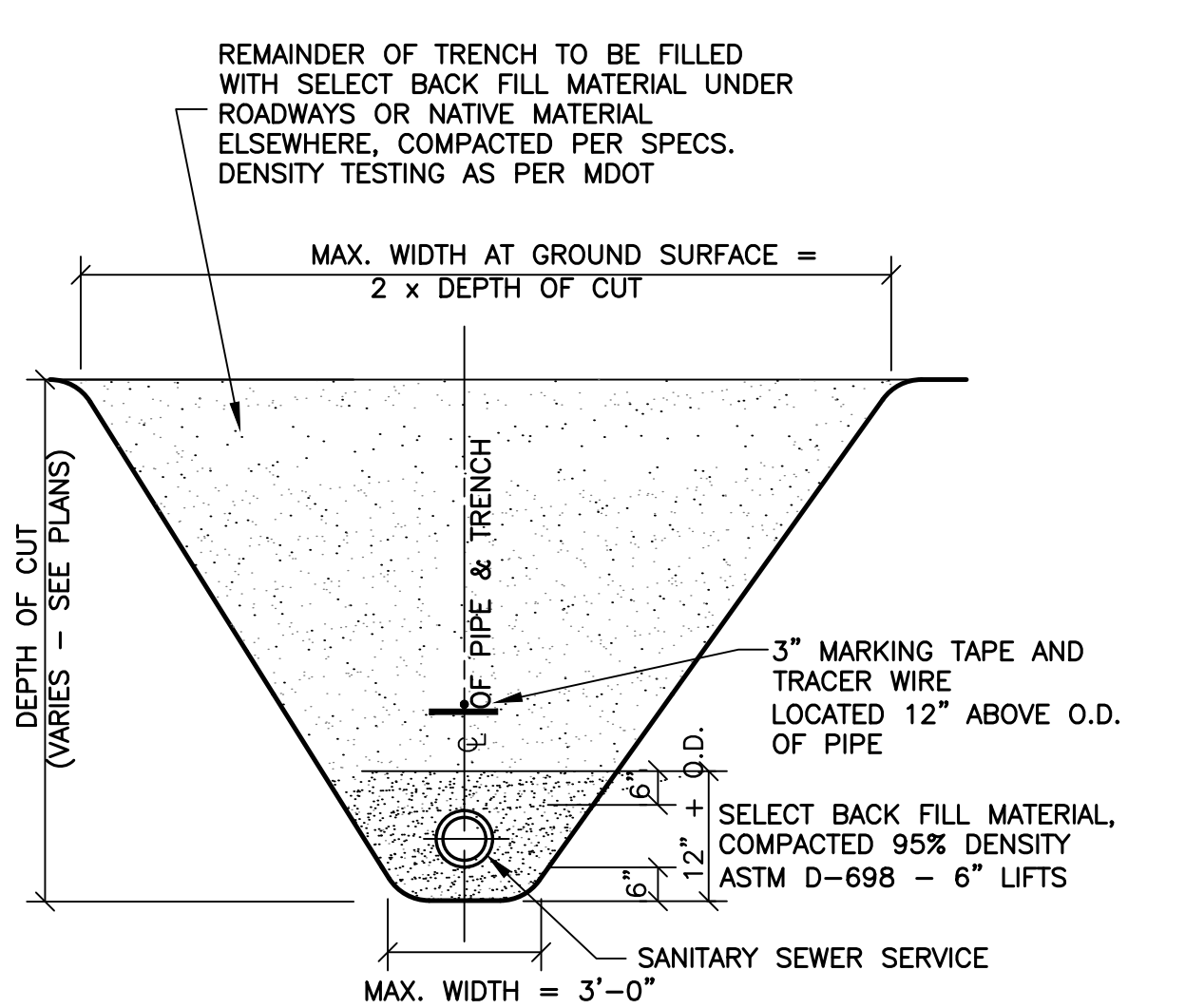
WATER SERVICE NOTES:
 1. ALL CURB STOPS, CORPORATION STOPS, SPLITTERS, REDUCERS, AND OTHER MISC. HARDWARE AND FITTINGS SHALL BE AS MANUFACTURED BY FORD OR APPROVED EQUAL. ALL HARDWARE AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 2. POLYETHYLENE SERVICE TUBING SHALL BE AS MANUFACTURED BY DRISCO PIPE OR APPROVED EQUAL.
 3. THE MINIMUM SIZE SERVICE SHALL BE 1". IF THE EXISTING SERVICE IS SMALLER THAN THE NEW SERVICE, THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIZED REDUCER. THE COST OF REDUCERS OR ANY OTHER HARDWARE NEEDED FOR THE PROPER WATER SERVICE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER SERVICES.
 4. WATER SERVICE SIZE SHALL MATCH EXISTING, BUT SHALL NOT BE LESS THAN 1" UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
 5. STAMP "W" IN THE FACE OF CURB AT EACH SERVICE LOCATION AND "W" AT EACH VALVE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SERVICE AND VALVE LOCATIONS ARE ACCURATELY MARKED.
 6. EXACT LOCATION OF ALL SERVICES AND VALVES SHALL BE SHOWN ON FINAL AS-BUILTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE LOCATION OF SERVICE OR VALVE FROM THE NEAREST CROSS STREET CENTERLINE OR ANOTHER PERMANENT LANDMARK APPROVED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
 7. ALL NEW WATER SERVICES SHALL BE INSTALLED WITH 12 GAUGE LOCATOR WIRE. THE WIRE SHALL BE CONTINUOUS FROM MAIN TO PROPERTY LINE. WIRE SHALL BE SPLICED AT EACH SPLITTER.

TYPICAL DOUBLE METER (SINGLE LOT) WATER SERVICE DETAIL
N.T.S.



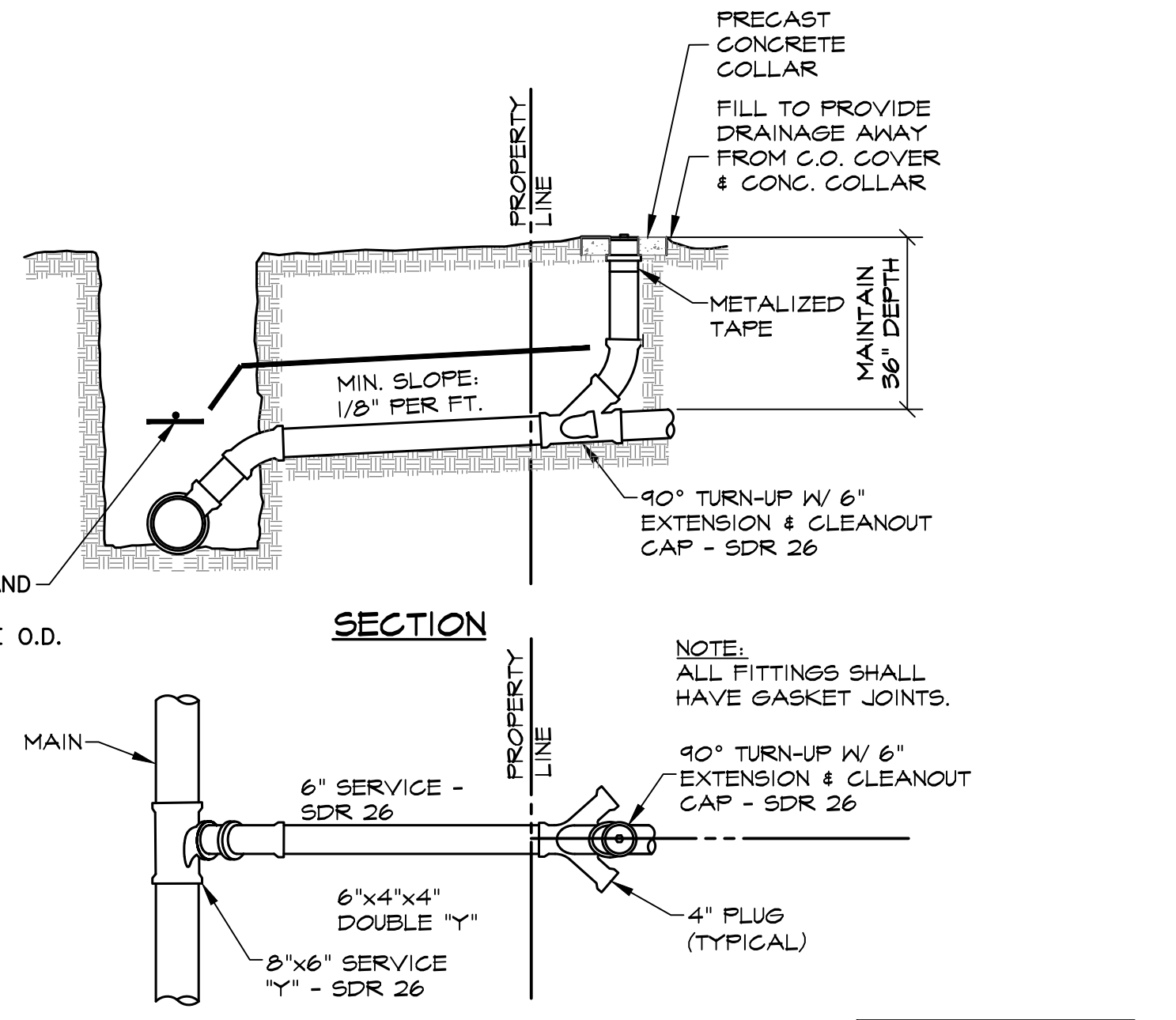
TYPICAL HYDRANT DETAIL
N.T.S.

SEWER DETAILS



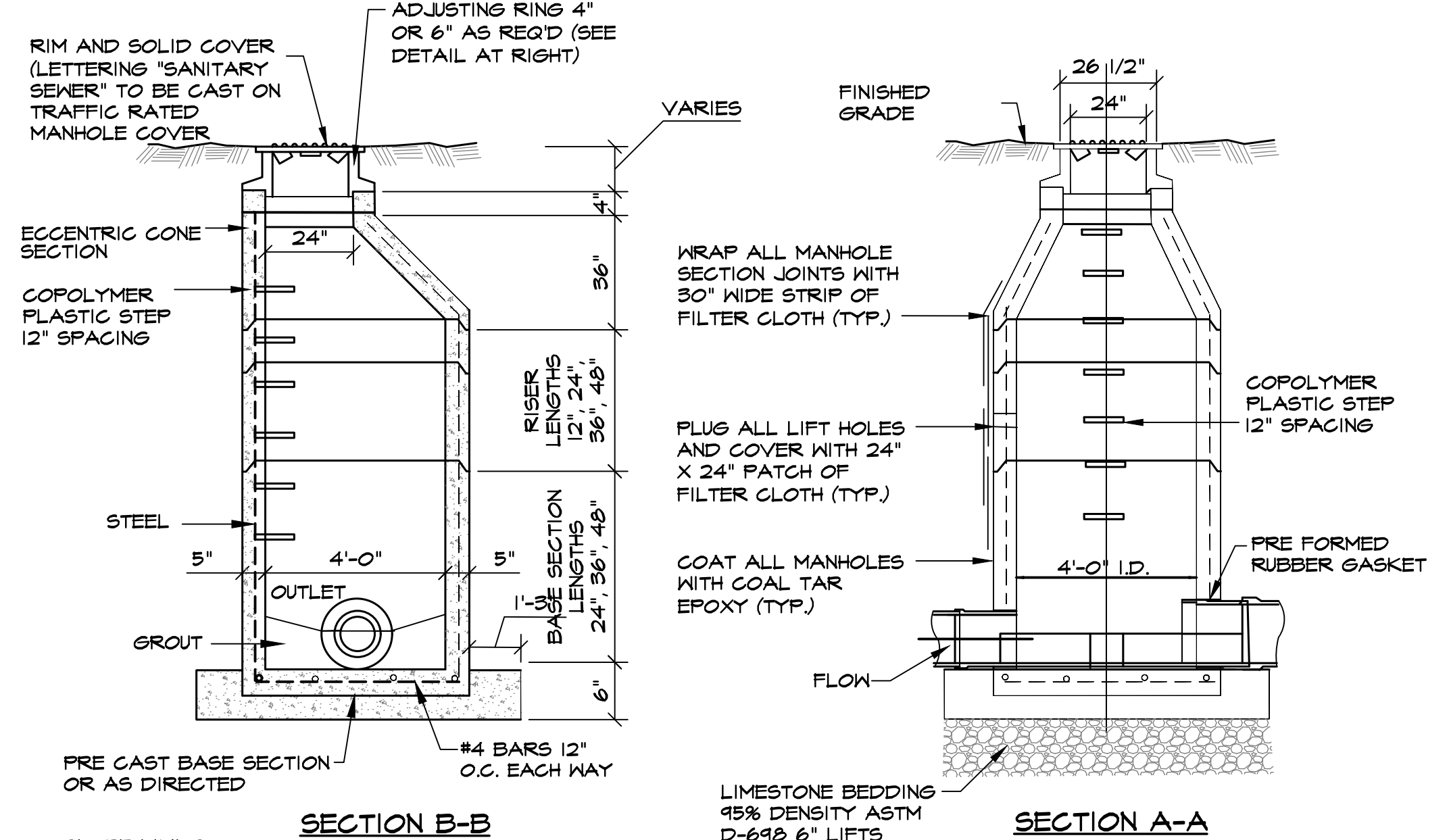
NOTE: CONTRACTOR SHALL INSTALL TEMPORARY BRACING, TRENCH BOX AND/OR SHEET PILING IF NECESSARY TO ENSURE STABILITY OF TRENCH UNTIL UTILITY IS FULLY BACK FILLED, INCIDENTAL TO PIPE INSTALLATION.

SEWER SERVICE TRENCH & BEDDING DETAIL
N.T.S.



NOTE: INCLUDE TRACER WIRE ON ALL WATER AND SEWER MAINS AND SERVICE PIPING.

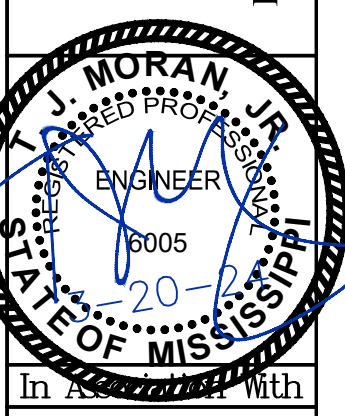
SEWER SERVICE DETAIL
N.T.S.



NOTE: INCLUDE XYPEX WATERPROOFING ADMIXTURE TO THE MANHOLES AT THE MANUFACTURING FACILITY. NO LIFTING HOLES ALLOWED.

TYPICAL PRE-CAST CONCRETE SEWER MANHOLE DETAIL
N.T.S.

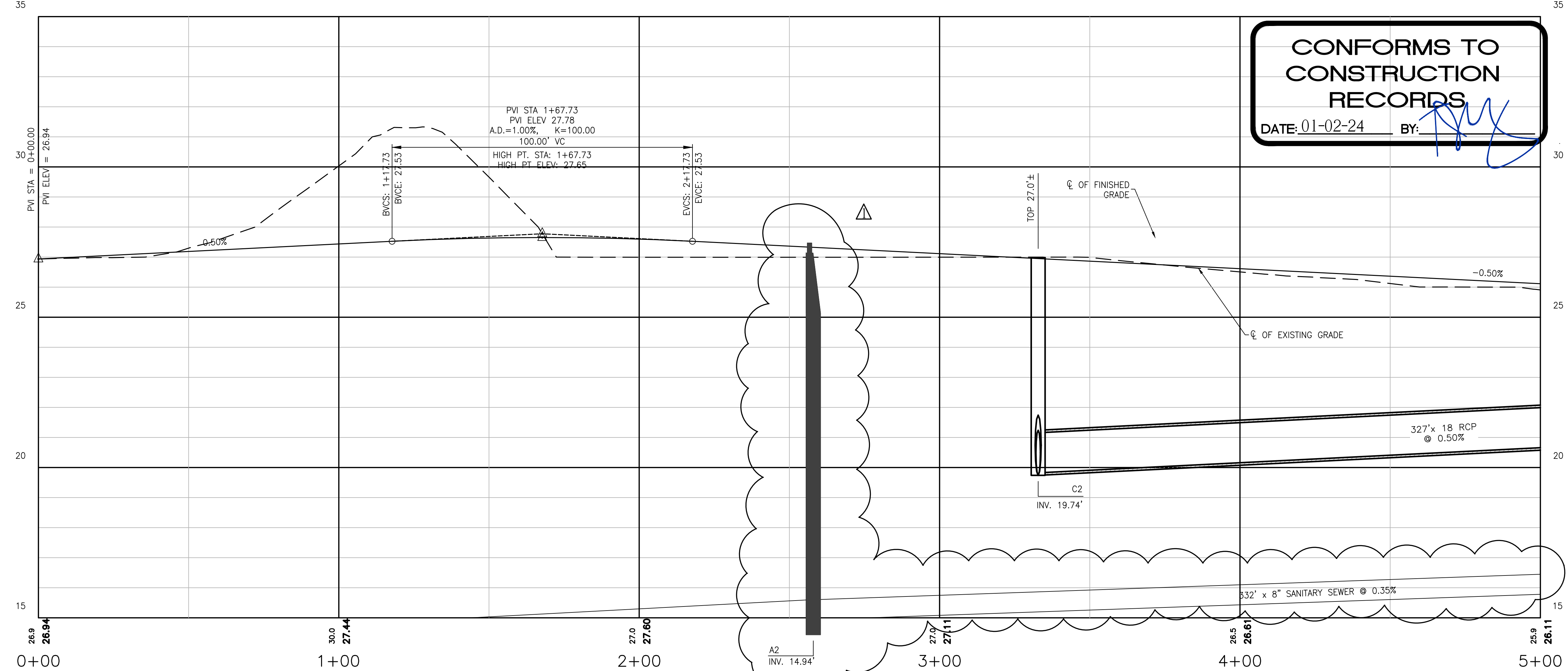
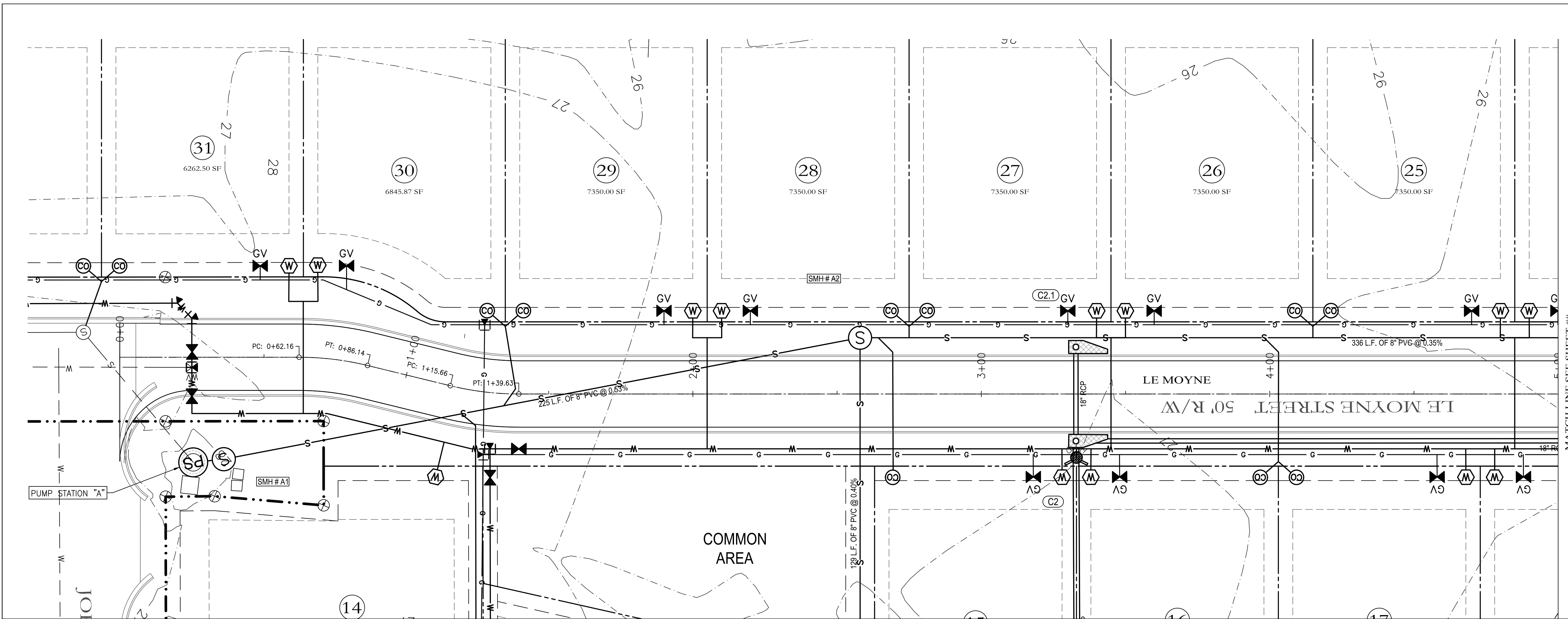
TERRY MORAN, P.E., P.L.S.
 P.O. Box 4075
 Biloxi, MS 39535
 Ph (228) 896-4733
 Fax (228) 896-6769



HEINRICH & ASSOCIATES
 RESIDENTIAL & COMMERCIAL DESIGN
 1806 23rd Ave., Suite B - Gulfport, MS 39501
 Ph (228) 966-6768

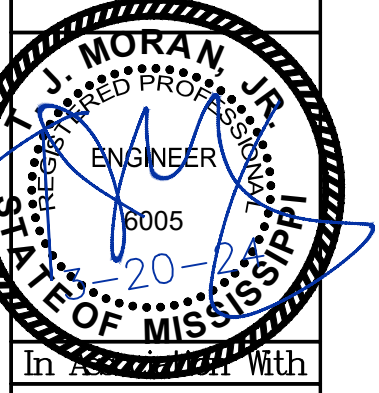
CONSTRUCTION DETAILS
 SHIELDSBORO PHASE 2A
 42 LOTS
 BAY ST. LOUIS, MISSISSIPPI

6-20-21
 Date
 Drawn By: CEV
 Check By: TDL
 REV
 Project No
 20-006



LE MOYNE PROFILE
STA. 0+00 to STA. 5+00

SCALE: HORZ.: 1"=20'
VERT.: 1"=2'

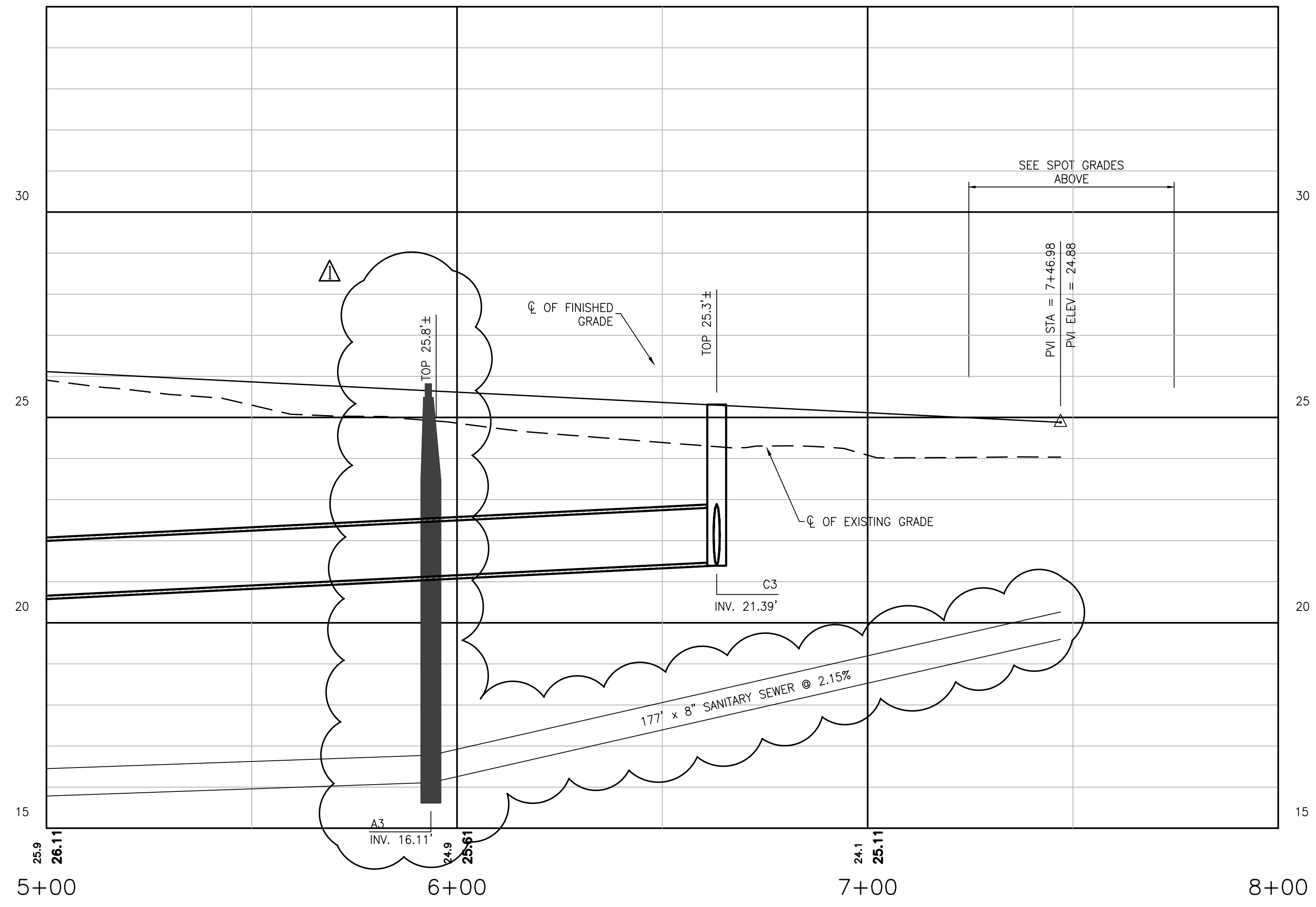
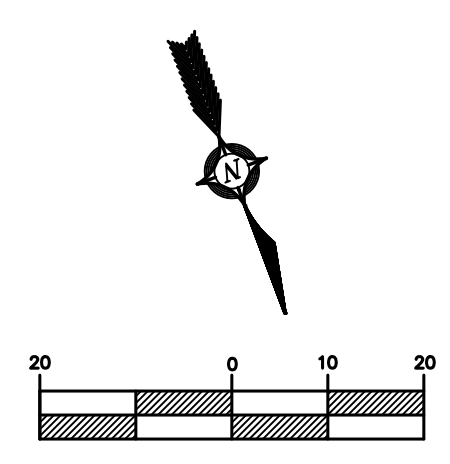
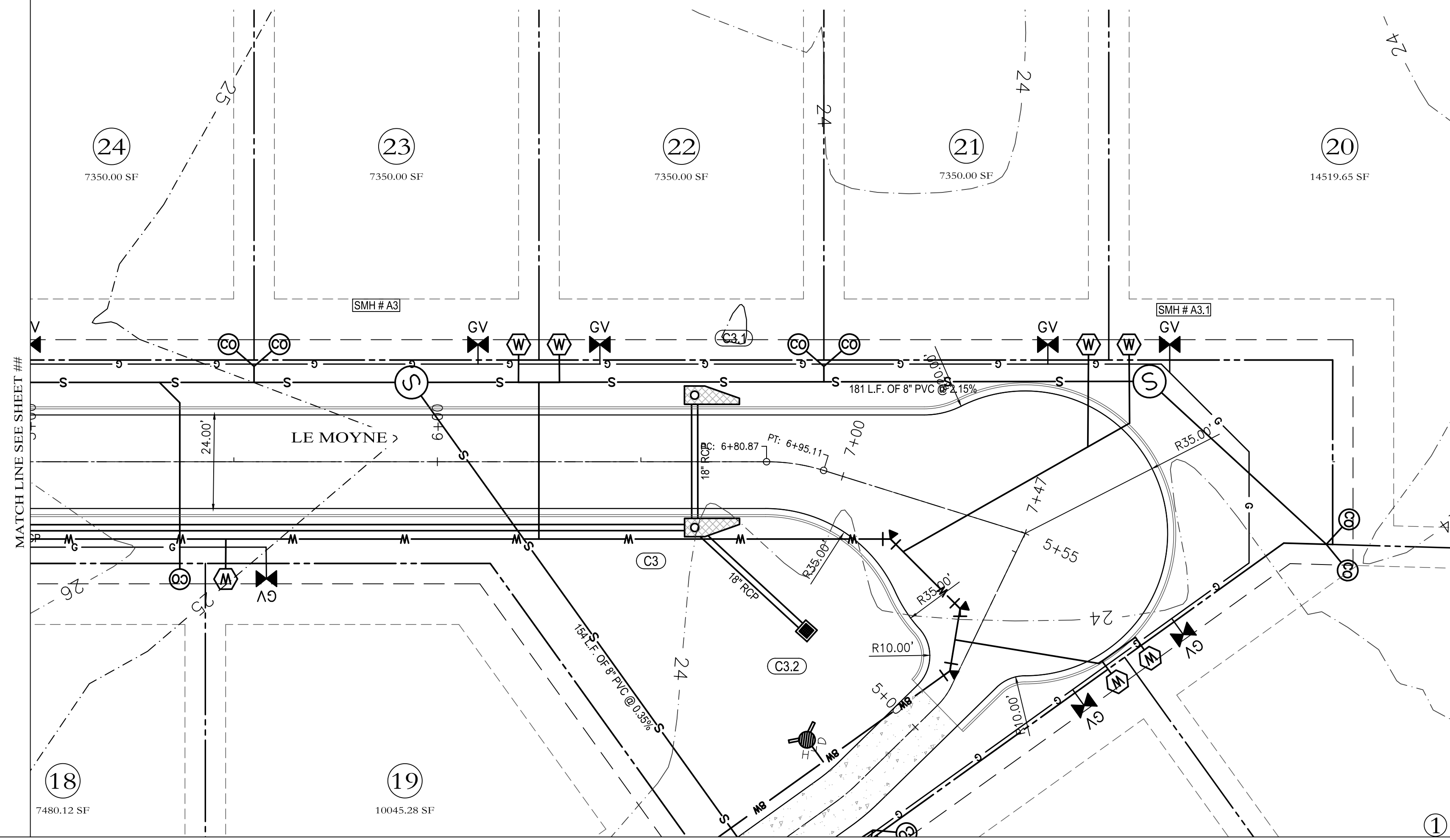


HEINRICH & ASSOCIATES
RESIDENTIAL & COMMERCIAL DESIGN
1806 23rd Avenue, Suite B - Gulfport, MS 39501
Ph (228) 896-6768

LE MOYNE - PLAN & PROFILE
SHIELDSBORO PHASE 2A
42 LOTS
BAY ST. LOUIS, MISSISSIPPI

Sheet: 6-20-21
Date: 6-20-21
Drawn By: CEV
Check By: TDL
REV 1-9-23

Project No: 20-006



LE MOYNE PROFILE
STA. 5+00 to STA. 8+00

**CONFORMS TO
CONSTRUCTION
RECORDS**
 DATE: 01-02-24 BY: *[Signature]*

SCALE: HORZ.: 1"=20'
VERT.: 1"=2'

 HEINRICH & ASSOCIATES RESIDENTIAL & COMMERCIAL DESIGN 1806 23rd Avenue, Suite B - Gulfport, MS 39501 Ph (228) 996-6768	 TERRY MORAN, P.E., P.L.S. P.O. Box 4075 Biloxi, MS 39535 Ph (228) 896-4733 Fax (228) 896-6768	TME TERRY MORAN ENGINEERING	LE MOYNE - PLAN & PROFILE SHIELDSBORO PHASE 2A 42 LOTS BAY ST. LOUIS, MISSISSIPPI
Sheet PP3 Project No 20-006	Date 6-20-21 Drawn By CEV Check By TDL REV 1-9-23	Sheet 6-20-21 Project SHIELDSBORO PHASE 2A	CONFORMS TO CONSTRUCTION RECORDS DATE: 01-02-24 BY: <i>[Signature]</i>



March 25, 2024

Re:

Shieldsboro Phase 2A

Final Plat

Bay Saint Louis City Council:

The Bay St. Louis City Engineer and Bay St Louis Administration have reviewed Shieldsboro Phase 2A and confirmed that it meets the minimum requirements set by the City of Bay Saint Louis. Pending receipt of a maintenance bond, the final plat should be approved by the Bay St. Louis City Council.

Jeremy L Burke



City Council Department Report

To: City Council
From: Caitlin Bourgeois,
Date: March 26, 2024
Subject: Motion to spread the recessed meeting notice of March 26, 2024 on the minutes.

Attachments:

1. 3.26.24 NOTICE

RECESSED MEETING NOTICE

The City of Bay St. Louis will hold a recessed meeting on **Tuesday, March 26, 2024** at 5:30pm at 598 Main Street in the Conference Center to discuss redistricting.

Clerk of Council
Caitlin Bourgeois



City Council Department Report

To: City Council
From: Caitlin Bourgeois,
Date: March 26, 2024
Subject: Motion to adjourn the recessed meeting of March 26, 2024.