

October 6, 2023

ADDENDUM NUMBER ONE (1)

Project: Hinds Community College
Health Sciences Complex
Site Improvement Package
Rankin Campus – Pearl, MS
HCC Bid #3282
DA PN: 23029

FROM: Dean Architecture, P.A.
661 Sunnybrook Road, Suite 140
Ridgeland, MS 39157
(601) 939-7717

The following additions, changes, clarifications and/or substitutions to the Project Drawings as indicated, are hereby made a part of the Contract Documents. Acknowledge receipt of this Addendum by inserting its number and date in the Proposal Form where indicated.

General:

Item #1: Attached is a list of attendees for the Pre-Bid Conference held on site on Tuesday, October 3, 2023 @ 10:00 a.m. This is provided for informational purposes only.

Architectural Specifications:

Item #1: Section 00000 – Advertisement for Bids, as follows:

Change the words "Utica Campus" to "Rankin Campus" in the last paragraph to denote bid envelope must be sealed and marked as follows:

Hinds Community College
Health Sciences Complex – Site Improvements Package
(Rankin Campus)
c/o Office of the Director of Procurement
D.G. "Sonny" Fountain Hall
608 Hinds Boulevard, Room 208
(Post Office Box 1100)
Raymond, Mississippi 39154

Item #2: Section 002100 – Instruction to Bidders, as follows:

Remove existing section and replace with the attached section.

Note: Corrected Using Agency city to Raymond, MS.

Item #3: Section 008020 – Hinds Community College Special Conditions, Paragraph 1.01P – Construction Sign, change this paragraph to read as follows:

P. A construction sign is not required on this project.

Hinds Community College
Health Sciences Complex
Site Improvement Package
Rankin Campus – Pearl, MS
HCC Bid #3282
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Civil

SEE ATTACHED CIVIL ITEMS PROVIDED BY MCMASTER & ASSOCIATES, INC.

END OF ADDENDUM NUMBER ONE (1)

Dean Architecture, P.A.



Kenneth A. Oubre, AIA, Principal



PLEASE ATTACH THIS ADDENDUM TO THE INSIDE FRONT COVER OF EACH SET OF SPECIFICATIONS.

HINDS COMMUNITY COLLEGE
P.O. Box 1100
Raymond, Mississippi 39154-1100

Purchasing Department
Fax: 601-857-3566

Phone: 601-857-3204

PRE-BID CONFERENCE

Bid No. 3282- Health Sciences Building- Site Improvements Package

DATE: Tuesday, October 2, 2023 at 10:00 am

Muse Center Conference Room, Rankin Campus

NAME	FIRM	E-MAIL OR FAX
Sam Lemons	Hinds C.C.	splemons@hindscc.edu
W. J. Cyprien	H.C.C.	william.cyprien@hindscc.edu
Chris Byrd	Southern Arch	Chris@southernarch.com
KENNETH CURRE	DEAN ARCHITECTURE	kcurre@deandean.com
BRAD HEATH	DEAN ARCHITECTURE	bheath@deandean.com
KIP TURVER	MCKEE CONSTRUCTION	KIP@MCKEECONSTRUCT.COM
Ryan Killingsworth	Birdsong Const.	ryan@birdsongconst.com
John Turner	Birdsong Const.	jturner@birdsongconst.com
Chaffin Bozeman	HCC	ckbozeman...
ANDREW HEARD	Hamp Hill Const.	Hamp Hill Const.
LEE DODD	HCC	lee.dodd@hindscc.edu
Laura Sudbeck	S&S Excavation, LLC	sandsexcavation@att.net
Kohl Bailey	McMaster & Associates, Inc.	Kohl@mcmastereng.com
Ed Marshall	" "	ed@mcmastereng.com
Ron McMaster	" "	ron@mcmastereng.com

INSTRUCTIONS TO BIDDERS

SECTION 00 21 00

PART 1 – GENERAL

- 1.01 **QUESTIONS:** Questions should be directed to the Project Professional. Should a Bidder find discrepancies in, or omissions from, the procurement documents, or be in doubt as to their meaning, the Bidder should immediately notify the Professional. The Professional will send written instruction(s) or interpretations(s) to all known holders of the documents. Neither the Owner, nor the Project Professional, will be responsible for any oral instruction or interpretation.
- 1.02 **BIDDER’S QUALIFICATIONS:**
- A. **Certificate of Responsibility:** The Mississippi State Board of Contractors is responsible for the issuing of Certificates of Responsibility numbers to Contractors. To be awarded a contract for public work, Sections 31-3-15 and 31-3-21 of the **Mississippi Code of 1972, Annotated** requires a Contractor to have a current Certificate of Responsibility number at bid time and during the entire length of the job. The Certificate of Responsibility number issued becomes a significant item in all public bidding.
 - B. **Bid Under \$50,000:** If a Bidder submits a bid not exceeding \$50,000, no Certificate of Responsibility number is required; however, a notation stating the *bid does not exceed \$50,000.00* shall appear on the face of the envelope, or a Certificate of Responsibility number.
 - C. **Bid Over \$50,000:** Each Bidder submitting a bid in excess of \$50,000.00 must show its Certificate of Responsibility number on the bid and on the face of the envelope containing the bid.
 - D. **Joint Venture Bid:** When multiple Contractors submit a joint venture bid in excess of \$50,000.00, a *joint venture* Certificate of Responsibility number shall be shown on the bid and on the face of the envelope containing the bid. If the Multiple-Contractor joint venture has no *joint venture* Certificate of Responsibility number, each of the Contractors participating in the bid shall indicate their individual Certificate of Responsibility numbers on the bid and on the face of the envelope.
- 1.03 **NON-RESIDENT BIDDER:** When a non-resident Bidder (a Contractor whose principal place of business is outside the State of Mississippi) submits a bid for a Mississippi public works project, one of the following is required and shall be submitted with the *Proposal Form* (Code 31-3-21(3)):
- A. **Copy of Law:** If the non-resident Bidder’s state has a resident Bidder preference law, a copy of that CURRENT law shall be submitted with the *Proposal Form*.
 - B. **Statement:** If the state has no such law then a statement indicating the *State of (Name of State) has no resident Contractor preference law* shall be submitted with the *Proposal Form*.
- 1.03 **DISQUALIFICATION OF BIDDER:** A Bidder may be disqualified for any of the following reasons:

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- A. Failure to comply with the bid requirements.
 - B. Bidder is in arrears on existing Contract(s) with Hinds Community College District.
 - C. Bidder is involved in an ongoing dispute related to the Bidder's execution, workmanship, or timely performance of a previous Contract with Hinds Community College District.
 - D. Bidder has defaulted on a previous Contract with Hinds Community College District.
- 1.05 **CONDITIONS OF WORK:** Each Bidder must fully inform himself of all conditions relating to the construction of the Project and employment of labor thereon. Failure to do so will not relieve a successful Bidder of obligations to furnish all material and labor necessary to carry out the provisions of the Contract. Insofar as possible, the Bidder must employ methods, or means, which will not cause interruption of, or interference with, the work of any other Bidder or Contractor.
- 1.06 **EXAMINATION OF SITE:** All Bidders, including the General Contractor and Subcontractors, shall visit the building site, compare the Drawings and Project Manual with any work in place and be informed of all conditions. Failure to visit the site will in no way relieve the successful Bidder from furnishing any materials or performing any work required to complete work in accordance with Drawings and Project Manual without additional cost to the Owner.
- 1.07 **LAWS AND REGULATIONS:** The Bidder's attention is directed to the fact that all applicable Mississippi state laws, rules and regulations of all authorities having jurisdiction over construction of the Project apply to the Contract.
- 1.08 **OBLIGATION OF BIDDER:** At the bid opening, each Bidder will be presumed to have inspected the site, read and become thoroughly familiar with the Drawings and the Project Manual, including all Addenda.
- 1.09 **BID DOCUMENT DEPOSIT AND RETURN:** The deposit amount, if any, shall be established as the estimated actual cost of copying and reproduction plus shipping via USPS Standard Ground Transportation, shall be indicated in the *Advertisement for Bids*. Bidders may request shipping via express carrier or expedited delivery at their own additional cost. Upon returning the documents to the Project Professional within ten (10) working days of the bid date and in good condition, all document holders will be refunded the full deposit amount. Further, any document holder who is awarded the contract, related subcontracts and / or vendor agreements may elect to retain their documents and request refund of the full deposit amount upon execution of the construction contract and approval of General Contractor, however; such documents shall be counted toward the total number of copies furnished free of charge to the General Contractor. No partial sets of documents will be issued. Selected trade organizations, plan rooms and web-based distribution networks will be issued one (1) set of documents without charge.

PART 2 – PROPOSAL FORM

- 2.01 **METHOD OF BIDDING:** Lump sum, single bids received on a general contract will include general, mechanical, and electrical construction and all work shown on Drawings or specified in the Project Manual.

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- 2.02 **PROPOSAL FORMS:** The Bidder shall make all proposals on forms provided and shall fill all applicable blank spaces without interlineations or alternation and must not contain recapitulation of the work to be done. No oral or telegraphic proposals will be considered.
- 2.03 **TIME OF COMPLETION:** The Bidders shall agree to commence work on, or before a date specified in a written *Notice to Proceed* and fully complete the Project within the calendar days indicated on the *Proposal Form*.
- 2.04 **BASE BID AND ALTERNATES:**
- A. On the *Proposal Form*, the Bidder shall write out the Base Bid amount in words and include the numerical amount. The written word shall govern.
 - B. The *Proposal Form* shall contain a brief description of each alternate modifying the scope. The Bidder shall write out the amount in words and include the numerical amount for each alternate. The written word shall govern.
- 2.05 **SUBSTITUTIONS:** No substitutions, qualifications or redefining of the Specification requirements are allowed to be marked on the *Proposal Form*, unless specifically required by the Bid Documents.
- 2.06 **ADDENDA:** Any Addenda to the Drawings or Project Manual issued before or during the time of bidding shall be included in the proposal and become a part of the Contract. The *Proposal Form* will have ample space to indicate the receipt of Addenda. When completing the *Proposal Form*, the Bidder shall list the Addendum number in spaces provided.
- 2.07 **BIDDER IDENTIFICATION:**
- A. **Signature:** The *Proposal Form* shall be signed by any individual authorized to enter into a binding agreement for the Business making the bid proposal.
 - B. **Name of Business:** The name appearing on the *Proposal Form* should be the complete spelling of bidder's name – exactly as recorded at the Secretary of State which should also be the same as you applied for at the Mississippi State Board of Contractors.
 - C. **Legal Address:** The address appearing on the *Proposal Form* should be the same address exact as recorded at the Secretary of State which should be the same as you applied for at the Mississippi State Board of Contractors.
 - D. **Certificate of Responsibility Number(s):** The Certificate of Responsibility Number(s) appearing on the *Proposal Form* should be the same number(s) appearing in the current Mississippi State Board of Contractors Roster.
- 2.08 **BID SECURITY:** The Bid Security shall be in the form of a Bid Bond, or a Certified Check:
- A. **Bid Bond:** The Bidder may submit a Bid Bond by a Surety licensed in Mississippi in the amount of five percent (5%) of the base bid. The Bid Bond shall be duly executed by the Bidder, a Mississippi Licensed Agent for said Surety approved by the Mississippi Insurance

Department OR signed by the Surety AND countersigned by a Mississippi Licensed Agent for said Surety approved by the Mississippi Insurance Department. <http://www.mid.ms.gov> .(No standard form is required for the Bid Bond.) Where bid is to be submitted electronically, a scanned copy of the Bid Bond is acceptable.

B. **Certified Check:** The Bidder may submit a certified check made out to Hinds Community College District in the amount of five percent (5%) of the base bid. All checks received from Bidders will be returned upon request, unless a Bidder is one (1) of the three (3) apparent low Bidders. The three (3) apparent low Bidder's checks will be held for forty-five (45) days, unless a Contract is awarded and executed in less time. Where bid is to be submitted electronically, certified check must be physically delivered to the address indicated on the Advertisement for Bids PRIOR to the time and date stated.

2.08.1 **POWER OF ATTORNEY:** Each bid security must be accompanied by an appropriate Power of Attorney. No Power of Attorney is necessary with a certified check.

PART 3 – SUBMITTING THE PROPOSAL FORM

3.01 **SUBMITTAL:** A Bid must be either submitted electronically via the designated website (as shown in the Advertisement for Bids) or physically delivered (to the address indicated on the Advertisement for Bids) prior to the time and date stated. If physically submitted, only one original of Bid Proposal Form shall be submitted which should be sealed in an opaque envelope marked, mailed or hand-delivered as follows:

(In upper left hand corner)

Name of Firm(s) / Address / Certificate of Responsibility Number(s)/ Statement

(Bid shall be addressed and delivered to)

Hinds Community College District
c/o Office of the Director of Purchasing
D. G. "Sonny" Fountain Hall
608 Hinds Boulevard, Room 208
(Post Office Box 1100)
Raymond, Mississippi 39154

(In lower left hand corner)

Bid for: HCC Bid # 3282 / Professional PN: 23029

Title: **Health Sciences Complex – Site Package – Civil & Site Utilities, Rankin Campus, Pearl, Mississippi**

Using Agency: Hinds Community College District (Community College Board), Raymond, Mississippi

Certificate of Responsibility Number: _____

Under \$50,000.00 (Add Statement)

If the Bid is mailed, then the envelope shall be placed inside a second envelope to prevent an inadvertent or premature opening of the Bid Proposal.

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- 3.02 **MODIFICATION TO BID:** A Bidder may modify the bid prior to the scheduled closing time indicated in the Advertisement for Bids in the following manner:
- A. **Physical Bid:** A modification may be written on the outside of the sealed bid envelope containing the bid.
 - B. **Electronic Bid:** Information and attachments may be modified and re-submitted via the electronic bidding site as shown in the Advertisement for Bids.
- 3.03 **WITHDRAWAL OF BID:** Any bid may be withdrawn prior to the scheduled time for opening of bids. However, bids may not be withdrawn until forty-five (45) days after the bid opening.

PART 4 - BID OPENING AND AWARD OF CONTRACT

- 4.01 **OPENING OF BIDS:** Bids will be publicly opened shortly after the time stated in the Advertisement for Bids. Bidder representatives are invited; however, attendance is not mandatory.
- Closure of the College preventing the opening of bids at the advertised date and time due to Force Majeure Event reasons will result in bids being publicly opened on the next business day that the College shall be open and at the previously advertised time.
- 4.02 **IRREGULARITIES:** The omission of any information requested on the Proposal Form may be considered as an informality, or irregularity, by the awarding public body when in their opinion the omitted information does not alter the amounts contained in the Bid Proposal, or place other Bidders at a disadvantage.
- 4.03 **PROTEST:** Any protest must be delivered in writing to the Owner within twenty-four (24) hours after the bid opening.
- 4.04 **ERRORS:** Any claim of error and request for release from a bid must be delivered in writing to the Owner within twenty-four (24) hours after the bid opening. The Bidder shall subsequently and promptly provide sufficient documentation with the written request clearly proving an error was made. Failure to provide such documentation adequate to prove an error may result in forfeiture of Bid Security to the Owner.
- 4.05 **AWARD OF CONTRACT:** The Owner reserves the right to reject any, or all bids. A Contract will be awarded (subject to receipt of an executable Contract) on the basis of the lowest, responsive, responsible base bid, or lowest combination of base and those alternates selected by the Owner generally in the order listed unless a different order is determined to be in the best interest of the Owner and which produces a total within available funds. Where such bidder fails to enter into a Contract, the Owner reserves the right to award to the next lowest responsive, responsible bidder or resolicit the project.
- 4.06 **FAILURE TO ENTER INTO A CONTRACT:** The Bidder shall forfeit the Bid Security to the Owner as liquidated damages for any of the following reasons:
- A. Prior to award, failure, or refusal, to furnish the names, classifications and COR #'s of Sub-

Contractors over Fifty Thousand Dollars (\$50,000.00) as well as entities who are to furnish materials or equipment fabricated to a special design within three (3) working days after receipt of Notice of Intent to Award the Contract.

- B. Prior to award, failure, or refusal, to furnish substitute acceptable Sub-Contractors or entities within five (5) working days of when the Owner or Prime Professional has made reasonable objection to those initially submitted.
- C. Following Notice of Award (subject to executable contract), failure, or refusal, to execute and deliver the Form of Agreement Between the Owner and the Contractor, the Performance and Payment Bond, and the Certificate of Insurance within ten (10) working days after receipt of same from the Professional.

4.07 **SECURITY FOR FAITHFUL PERFORMANCE:** Simultaneously, with delivery of the executed Contract, the Contractor will furnish a Surety Bond, or Bonds, as security for faithful performance, the payment of all persons performing labor on the project, and furnishing materials in connection with this Contract. The Surety on such Bond, or Bonds, will be a duly authorized surety company satisfactory to the Owner and meeting all of the following requirements:

- A. Licensed at the time of award by the State of Mississippi's Commissioner of Insurance for the purpose of providing surety. <http://www.mid.ms.gov> (or most up-to-date link).
- B. Listed at the time of award in the Department of Treasury's **Federal Register** as a company holding certificates of authority as acceptable sureties on Federal Bonds, commonly referred to as the Treasury List.
- C. All Bonds shall be executed on the form provided in the Project Manual under Section 00 61 00 entitled Contract Bond.
- D. The Contract Bond shall be duly executed by the Bidder, a Surety licensed in Mississippi signed by a Mississippi Licensed Agent for said Surety approved by the Mississippi Insurance Department for said Surety approved by the Mississippi Insurance Department OR signed by the Surety AND countersigned by a Mississippi Licensed Agent for said Surety approved by the Mississippi Insurance Department with the name and address typed, or lettered legibly (preferably embossed) <http://www.mid.state.ms.gov> (or most up-to-date link).
- E. All Bonds must be accompanied by an appropriate Power of Attorney dated same as Contract Bond (preferably embossed).

PART 5 – BIDDER’S CHECKLIST

The following checklist is for the Bidder’s assistance only. It is not inclusive and does not have to be included with the *Proposal Form* when submitting a *Bid Proposal*.

5.01 PROPOSAL FORM: (only one original proposal form to be submitted)

Base Bid

- Write in the amount of the base bid in words and numbers. In case of a conflict, the written word shall govern.

Alternates

- Write in each alternates’ amount in words and numbers. In case of a conflict, the written word shall govern.

Addenda

- Acknowledge the receipt of each addendum by writing in the number of the Addendum.

Acceptance

- Proposal is signed by authorized person.
- Name of Business -- complete spelling of bidder’s name and address – exactly as recorded at the Secretary of State [<http://www.sos.state.ms.us/busserv/corp/soskb/csearch.asp>] which should be the same as you applied for at the Mississippi State Board of Contractors [<http://www.msboconline.com/Search2.CFM>]
- Legal address of the business listed above (at SOS and Contractor’s Board)
- Correct Certificate of Responsibility Number(s) as it appears in the current Mississippi State Board of Contractors Roster.

Certificate of Responsibility Number(s)

- Base Bid is under \$50,000.00 and no number is required AND the statement “bid does not exceed \$50,000.00” is on the outside of the sealed envelope or statement included with electronic bid.
- OR** Base Bid is \$50,000.00 or more and number is required and is on the outside of the sealed envelope or included with electronic bid.
- Joint Venture and *Joint Venture Number* is required.
- OR** Joint Venture participants’ numbers are required.

5.02 BID SECURITY:

- Included Bid Bond
- OR** Included Certified Check

5.03 POWER OF ATTORNEY:

- Included Power of Attorney

5.04 NON-RESIDENT BIDDER:

- Attached a Copy of Non-Resident Bidder’s Preference Law
- OR** Attached a Statement

5.05 SUB-CONTRACTORS NAME:

- () List any Mechanical, Plumbing, and / or Electrical Sub-Contractor regardless of costs.
*List name even for under \$50,000.00. (See 5.06 regarding COR).
*Fire Protection Sprinkler Contractors do not have to be listed.
*If there is a separate HVAC / Plumbing Sub-Contractor, so notate as mentioned herein.
*If Mechanical, Plumbing, and / or Electrical Sub-Contractor is performed by the General, be sure the General has a COR for said discipline.
*If there is no Mechanical, Plumbing, and / or Electrical Sub-Contractor listed, then use of Sub-Contractor to perform such scope will not be permitted.

5.06 SUB-CONTRACTORS COR Number:

- () *List Certificate of Responsibility Number for any listed Sub-Contractor over \$50,000.00.

***** END OF SECTION *****



October 6, 2023

ADDENDUM NO. ONE (1) – CIVIL ENGINEERING ITEMS

Health Sciences Complex – Site Improvements Package
(Rankin Campus) Hinds Community College
(Community College Board)
Pearl, Mississippi (HCC Bid #3282)

The following changes and clarifications are hereby made a part of and take precedence over conflicting sections of the Drawings and Specifications.

CIVIL - GENERAL INFORMATION AND CLARIFICATIONS:

- 1.1 Item #1 – The City of Pearl will allow burning on-site. The contractor must notify the City of Pearl Fire Marshall prior to ANY burning taking place.
- 1.2 Item #2 – All underground piping, including water, sewer, storm sewer, gas, irrigation, etc. shall include tracer wire with testing stations placed at maximum 250' increments.

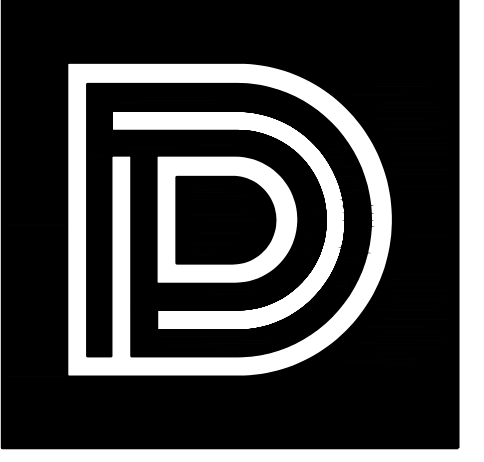
CIVIL – PERTAINING TO THE SPECIFICATIONS:

- 1.3 Item #1 – Section 321723 Pavement Markings was included if re-striping at intersections is needed. No striping should be included in the bid.
- 1.4 Item #2 – Manholes shall contain a crystalline waterproof admixture in the concrete mix. Xypex or approved equal. The contractor shall meet all City of Pearl requirements.

CIVIL – PERTAINING TO THE DRAWINGS:

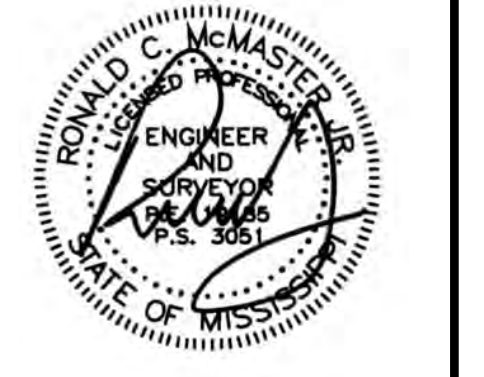
- 1.5 Item #1 – Sheet C0.2 – Note #16 has been added that calls for the addition of a 6' tall construction fence surrounding the property. No windscreen is required. The protective fence will remain in-place following construction for use in the future project. Construction access and pedestrian gates are shown on C5.1.
- 1.6 Item #2 – Contractor to follow all State and Federal regulations and pay all applicable fees for disposal of existing creosote poles.

END OF CIVL ITEMS FOR ADDENDUM NO. ONE (1)



DEAN
ARCHITECTURE
GEDDIE | GRANT | OUBRE

661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

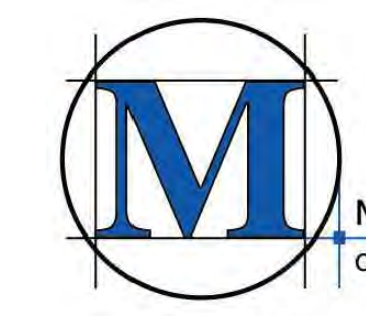


Project No. : 23029
Date: SEPTEMBER 14, 2023
Drawn: DP
Checked: RCM
Revisions: Addl. No. 1 - October 6, 2023

HEALTH SCIENCES COMPLEX -
SITE IMPROVEMENTS PACKAGE
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI (HCC BID #3282)

Sheet Number:
C0.1
INDEX SHEET

SHEET INDEX	
SHEET NO.	TITLE
C0.1	QUANTITY AND INDEX SHEET
C0.2	GENERAL NOTES
C0.3	EXISTING CONDITIONS AND DEMO PLAN
C1.1	SITE PLAN
C2.1	SPOT ELEVATIONS
C2.2	GRADING AND DRAINAGE
C2.3	DETENTION LAYOUT
C2.4	UNDERCUT PLAN
C3.1	UTILITY PLAN
C4.1	PLAN & PROFILE (ROAD "A")
C5.1	EROSION CONTROL PLAN
C6.1	MISCELLANEOUS DETAILS
C6.2	MISCELLANEOUS DETAILS
C6.3	RETAINING WALL DETAILS
C6.4	SEWER DETAILS
C6.5	WATER DETAILS



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

212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

DEMOLITION NOTES

- DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND FUNCTIONAL.
- PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING PAVEMENT ALONG ALL LIMITS OF PAVEMENT DEMOLITION.
- ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. DISPOSE OF OFF THE OWNER'S PROPERTY IN A LEGAL MANNER.
- 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.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH LOCAL UTILITY COMPANIES PRIOR TO UTILITY DISCONNECT.
- NOTIFY LOCAL UTILITY LOCATOR SERVICE OF INTENDED DEMOLITION OPERATIONS. SEE GENERAL UTILITY NOTE #4.
- EXISTING INFORMATION/TOPOGRAPHIC SURVEY WAS PREPARED BY MCMASTER & ASSOCIATES, INC.
- PAVEMENT MARKINGS TO BE REMOVED SHALL BE PAINTED OVER TO MATCH PAVEMENT OR REMOVED WITH WIRE BRUSHINGS.
- EXCEPT AS SHOWN, NO TREES SHALL BE REMOVED AND/OR VEGETATION DISTURBED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
- TREE PROTECTION SHALL CONSIST OF THE FOLLOWING STEPS:
 - CONTRACTOR SHALL HIRE A LICENSED LANDSCAPE CONTRACTOR TO OVERSEE TREE PROTECTION.
 - 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.
 - TREAT EXPOSED ROOTS WITH A HORTICULTURAL TREE PRUNING PROTECTION PRODUCT.
 - 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).
 - INSTALL A CONSTRUCTION FENCE TO THE LIMITS SHOWN AT LEAST 4' IN HEIGHT.
 - BEGIN CLEARING AND GRADING OPERATIONS.
- CONTRACTOR TO PROVIDE AND INSTALL A 6' TALL CONSTRUCTION FENCE ALONG THE PROJECT LIMITS WITH ACCESS GATES AS SHOWN IN THE PLANS.

LAYOUT & PAVING NOTES

- THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO BEGINNING WORK.
- 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 COORDINATES ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING WORK.
- 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.
- 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.
- 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.
- ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN WHICH RESULTS FROM NEW CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
- DIMENSIONS ARE TO THE EDGE OF PAVEMENT, EDGE OF CONCRETE, OR TO THE FACE OF BUILDING, UNLESS OTHERWISE NOTED.
- 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.
- EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROPERTY AT NO ADDITIONAL COST IN A LEGAL MANNER.
- MAINTAIN ONE SET OF AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ARCHITECT/ENGINEER UPON COMPLETION.
- PARKING STRIPES SHALL BE 4-INCH WHITE PAVEMENT PAINT, UNLESS OTHERWISE NOTED.
- STOP BARS, DETAIL STRIPS, FIRE LANES AND CROSSWALKS SHALL BE THERMOPLASTIC PAVEMENT MARKING MATERIAL.
- CONTRACTION JOINTS SHALL BE CONSTRUCTED TO A DEPTH OF AT LEAST 1/4 THE CONCRETE THICKNESS, AND SHALL DIVIDE CONCRETE ROUGHLY INTO SQUARES WITH MAXIMUM 10' SEGMENTS.

GRADING, DRAINAGE AND EROSION CONTROL NOTES

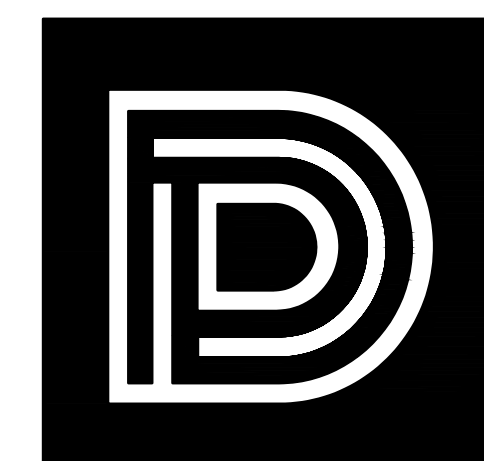
- NO TREES SHALL BE REMOVED NOR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE ARCHITECT/ENGINEER.
- IT IS THE OWNER'S INTENT TO PRESERVE ALL THE EXISTING SITE VEGETATION OUTSIDE THE LIMITS OF GRADING.
- ALL TREES, INCLUDING YOUNG SAPLINGS, PINES, AND UNDERSTORY 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.
- 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.
- 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.
- ALL GRADED AREAS SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER GRADING IS COMPLETED.
- CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWING PRIOR TO BEGINNING GRADING OPERATIONS.
- ALL DRAINAGE STRUCTURES, PIPES WITHIN THE LIMITS OF CONSTRUCTION, AND DETENTION PONDS SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.
- SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
- ALL LOCATIONS OF TEMPORARY EROSION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ARCHITECT/ENGINEER.
- WHEN THE TEMPORARY EROSION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE (IN THE ARCHITECT/ENGINEER'S OPINION), THEY SHALL BE REMOVED.
- REPLACE DAMAGED AND WORN OUT SILT BARRIERS AS DIRECTED BY THE ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE/STORE MATERIALS, WITHIN THE DRIPLINES OF TREES.
- 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.
- 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.
- NOTIFY LOCAL UTILITY LOCATOR SERVICE OF INTENDED EXCAVATION/UTILITY TRENCHING OPERATIONS.
- 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.
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS.
- SPOT ELEVATIONS AND CONTOURS REPRESENT PROPOSED FINISHED GRADE ELEVATIONS.
- CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO BEGINNING WORK.
- EXCESS MATERIAL SHALL BE DISPOSED OFF BY THE CONTRACTOR OFF THE OWNER'S PROPERTY AT NO ADDITIONAL COST IN A LEGAL MANNER.
- SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, AND OTHER OBJECTS OVER 1 INCH IN DIAMETER, OR CONTAMINANTS.
- AFTER STRIPPING TOPSOIL, PROOFROLL SUBGRADE WITH A LOADED DUMP TRUCK WITH A MINIMUM WEIGHT OF 20 TONS.
- FINISH GRADES TOLERANCES ARE 0.10 FOOT ABOVE OR BELOW DESIGN ELEVATIONS.
- CONSULT SUBSURFACE REPORT FOR ADDITIONAL EARTHWORK & UNDERCUT REQUIREMENTS.
- PROVIDE TEMPORARY SEEDING ON STOCKPILES AND ALL OTHER AREAS OF THE SITE THAT WILL REMAIN UNDISTURBED FOR 30 DAYS OR MORE.
- MAXIMUM SLOPES IN ALL DIRECTIONS OF HANDICAP PARKING SPACES/AISLES SHALL BE 2%.

GENERAL UTILITY NOTES

- WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS.
- 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.
- 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.
- MAINTAIN 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN SANITARY SEWER AND WATER SUPPLY LINES.
- 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.
- 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.
- BACKFILL UTILITY TRENCHES UNDER PAVEMENT AREAS AND IN LAWN AREAS WITH SATISFACTORY FILL MATERIAL COMPACTED TO AT LEAST 98% OF MAXIMUM PER ASTM D698.
- ADJUST ALL EXISTING CASTINGS TO MATCH PROPOSED FINISH GRADE.
- THRUST BLOCKS ALL WATERLINE FITTINGS WITH CONCRETE (2,500 P.S.I. MIN.) POURED AGAINST UNDISTURBED EARTH TO SUSTAIN 120 PERCENT TEST PRESSURE SPECIFIED. FORM THRUST BLOCKING SO AS TO NOT EMBED JOINTS, BOLTS, VALVE BOXES OR OPERATING NUTS.
- PROVIDE VENTS AT HIGH POINTS IN WATERLINE AS NECESSARY FOR EXPELLING AIR DURING FILLING OF WATERLINE. PROVIDE BRONZE CORPORATION STOP FOR CLOSING VENT DURING TESTING AND SERVICE. LEAVE VENT COMPONENTS PLUGGED AND ATTACHED TO PIPE AFTER SUCCESSFUL TEST.
- EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF THE OWNER'S PROPERTY AT NO ADDITIONAL COST IN A LEGAL MANNER.
- ALL SANITARY SEWER PIPE SHALL BE CLASS SDR 26 PVC UNLESS NOTED OTHERWISE.
- ALL WATER MAINS SHALL BE C-900 P.V.C. UNLESS NOTED OTHERWISE.
- ALL FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED AS NOTED ON THE PLANS.
- FIRE HYDRANT AND WATER MAINS TO BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
- NEOPRENE COUPLINGS WITH STAINLESS STEEL BAND AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND INVERT OF SANITARY SEWER FOR CONNECTION TO EXISTING OR PROPOSED SEWER SYSTEM.
- 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.

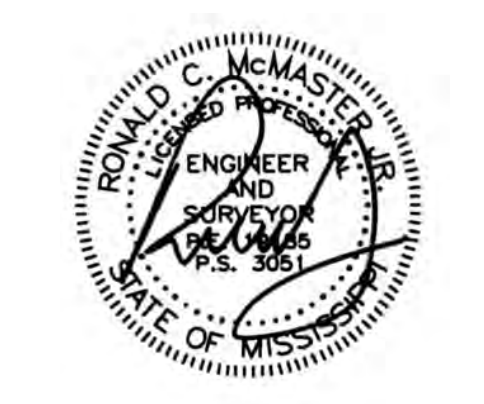
STORMWATER POLLUTION PREVENTION NOTES

- REFER TO EROSION CONTROL PLAN FOR ADDITIONAL REQUIREMENTS.
- 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.
- 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.
- THE CONSTRUCTION ACTIVITY ANTICIPATED ON THIS PROJECT INCLUDES CLEARING, GRUBBING, GRADING, TOPSOILING, AND SEEDING.
- THE APPROXIMATE TOTAL AREA OF THE SITE IS 7.34 ACRES. THE APPROXIMATE TOTAL AREA OF GRADING PROPOSED IS 7.34 ACRES.
- THE ANTICIPATED FILL MATERIAL WILL CONSIST OF SUITABLE ON-SITE SOIL AND/OR OFF-SITE SOIL BORROW MATERIALS.
- THE RECEIVING WATER/STORM SEWER OPERATOR IS THE CITY OF PEARL, AND THE STATE OF MISSISSIPPI.
- 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.
- THE CONTRACTOR SHALL DESIGNATE IN WRITING THE NAME AND PHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS.
- 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.
- THE CONTRACTOR SHALL MAINTAIN RECORDS OF EROSION CONTROL INSPECTIONS AND REPAIRS FOR A MINIMUM OF 3 YEARS AFTER COMPLETION OF CONSTRUCTION.
- 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
- MULCHING SHALL CONSIST OF LOOSE HAY OR STRAW APPLIED AT THE RATE OF 2 TONS/ACRE. ETC. AS NECESSARY AND WHEN CAPACITY HAS BEEN REDUCED BY 50%.
- STOCKPILES SHALL BE STABILIZED AND PROTECTED FROM EROSION.
- 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.
- FINAL SODDING AND STABILIZATION SHALL BE IN ACCORDANCE WITH THE RECORD LANDSCAPING DRAWINGS.



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601.939.7717
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(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI (HCC BID #3282)

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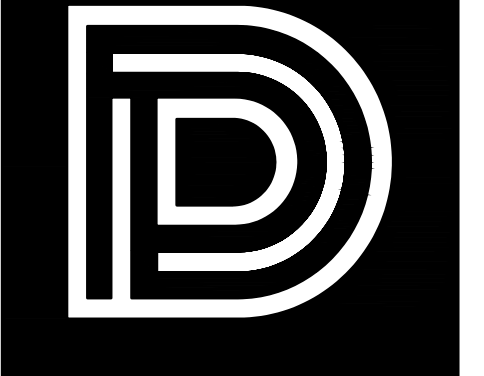
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GENERAL NOTES



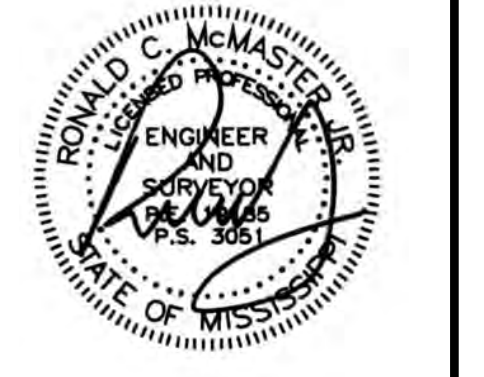
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SUITE 300
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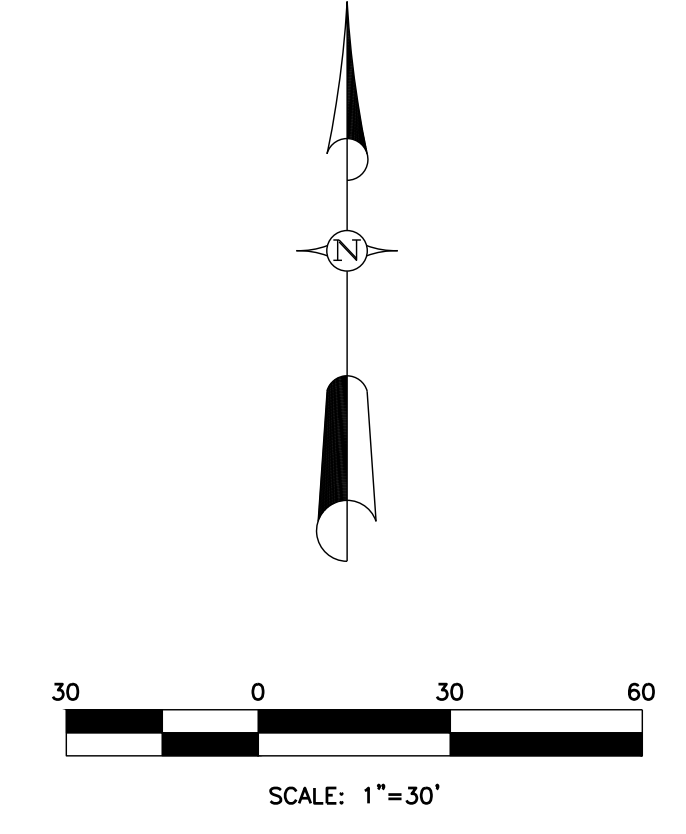
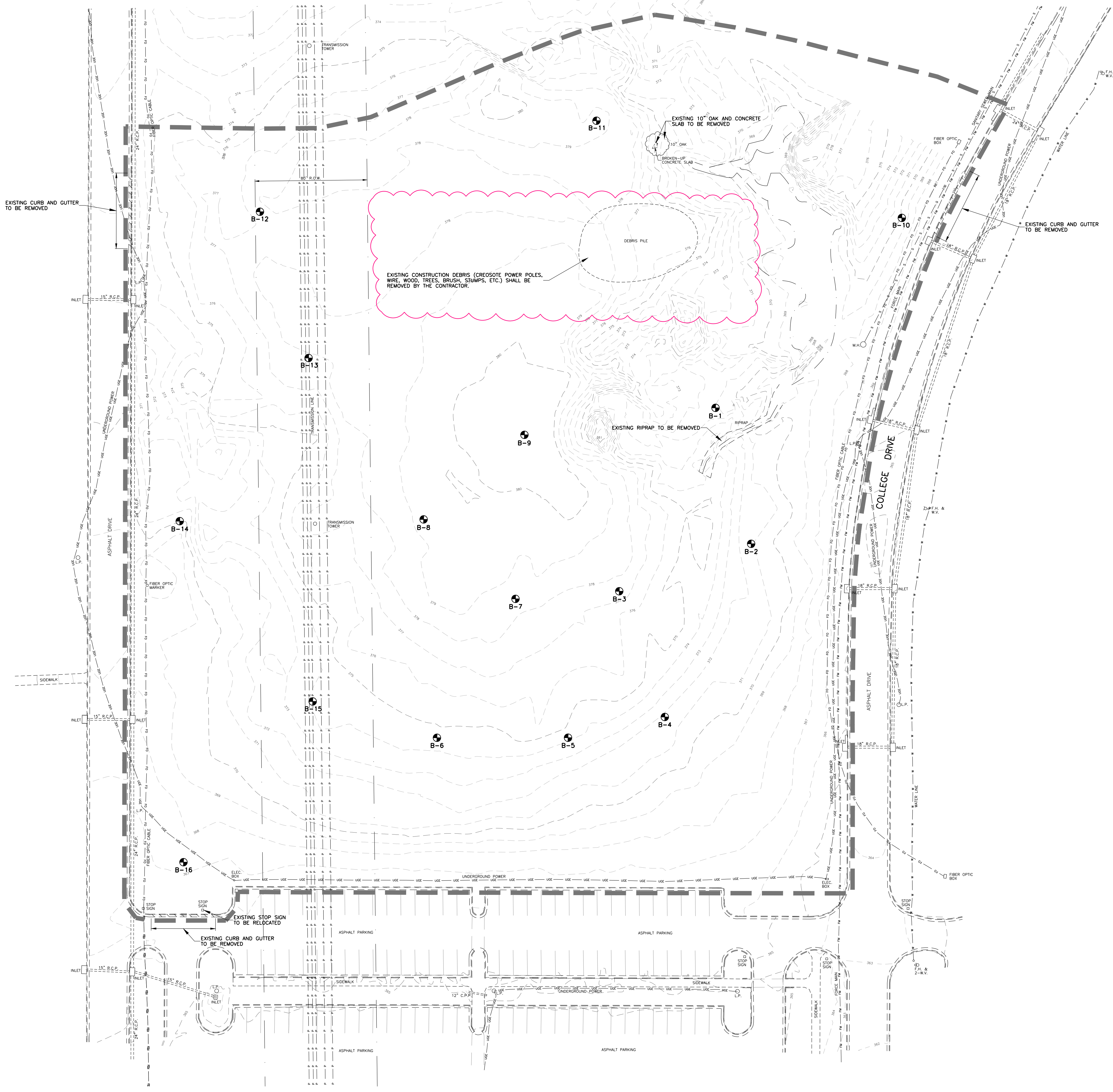
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EXISTING CONDITIONS
AND DEMO PLAN



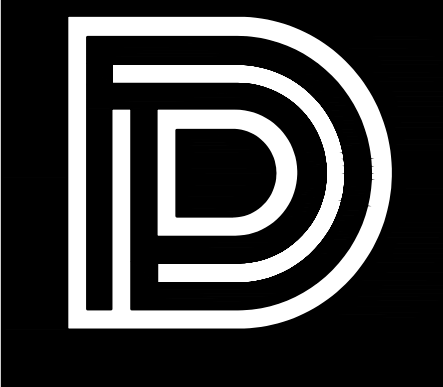
- NOTES:**
- CONTRACTOR TO CONTACT AND COORDINATE WITH UTILITY PROVIDERS FOR REMOVAL AND RELOCATION OF EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER, GAS, COMMUNICATION, ELECTRICAL, ETC.
 - CONTRACTOR TO COORDINATE WITH THE OWNER REGARDING REMOVAL/REPLACEMENT OF ANY EXISTING IRRIGATION LINES WITHIN THE CONSTRUCTION LIMITS.
 - ALL EXISTING STRUCTURES, TREES, PAVEMENTS, UTILITIES, ETC. NOT DESIGNATED TO BE REMOVED WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE DONE TO SAID ITEMS DURING CONSTRUCTION DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE FULLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER(S). ANY REPAIRS ARE TO BE APPROVED BY THE OWNER, ENGINEER, AND/OR ARCHITECT.
 - CONTRACTOR TO COORDINATE THE REMOVAL OF EXISTING UTILITIES WITH CURRENT ON-GOING OPERATIONS OF THE EXISTING FACILITIES AS TO CAUSE NO INTERRUPTION IN SERVICE (i.e. WATER, SEWER, GAS, ELECTRICAL, COMMUNICATIONS, ETC.).
 - CONTRACTOR TO SECURE THE SITE AND SHALL COORDINATE SCOPE, LIMITS AND ACCESS POINTS WITH THE OWNER.
 - CONTRACTOR TO COORDINATE EMPLOYEE PARKING, LAY-DOWN AND STAGING AREAS, AND OFFICE TRAILER LOCATIONS WITH THE OWNER.
 - UNDERGROUND UTILITIES WERE LOCATED BY FIELD OBSERVATION AND BY THE FOLLOWING MISSISSIPPI 811 LOCATE REQUEST: #22102611290865 DATE CALLED: OCTOBER 26, 2022.
UTILITIES NOTIFIED:
MS0013 TELEPAK DBA C-SPIRE FIBER
MS0184 UNITI FIBER - SOUTHERN LIGHT 1
MS0463 GULF SOUTH PIPELINE FLOWWOOD-BOARDWALK
MS0604 CITY OF PEARL
MS0809 SOUTHERN PINE ELECTRIC BRANDON
MS1020 COMCAST CABLE OF JACKSON
MS1058 CENTERPOINT ENERGY BYRAM
MS2067 SPIRE MS INC. RANKIN
MS2079 HINDS COMMUNITY COLLEGE
MS3000 AT&T DISTRIBUTION
MS4021 ENTERGY MS
 - UNDERCUTTING IS REQUIRED IN AREAS WITH WEAK SOILS. SEE GEOTECHNICAL REPORT.
 - CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. DURING THE LOCATING PROCESS, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER IN ORDER THAT THE LOCATION AND GRADE CAN BE RECORDED. SHOULD ANY CONFLICTS ARISE BETWEEN THE EXISTING UTILITIES AND PROPOSED IMPROVEMENTS, THE ENGINEER SHALL MAKE ADJUSTMENTS IN THE DESIGN ELEMENTS AND/OR DIRECT THE CONTRACTOR TO ADJUST EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ALL COSTS FOR LOCATING THE EXISTING UTILITIES, INCLUDING ANY SUBCONTRACTORS, SHALL BE INCLUDED IN THE CONTRACTORS BID. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
 - ALL TREES, UNDERBRUSH, AND DEBRIS WITHIN THE CONSTRUCTION LIMITS TO BE REMOVED.
 - CONTRACTOR TO FOLLOW ALL STATE AND FEDERAL REGULATIONS AND PAY ALL APPLICABLE FEES FOR DISPOSAL OF CREOSOTE POLES.

LEGEND

	EXISTING WATER LINE
	EXISTING OVERHEAD POWERLINE
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER FORCE MAIN
	EXISTING FIBER OPTIC CABLE
	EXISTING UNDERGROUND ELECTRIC CABLE
	CONSTRUCTION LIMITS

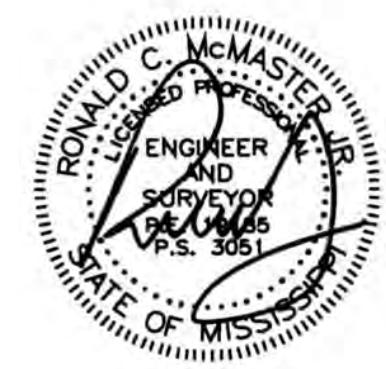
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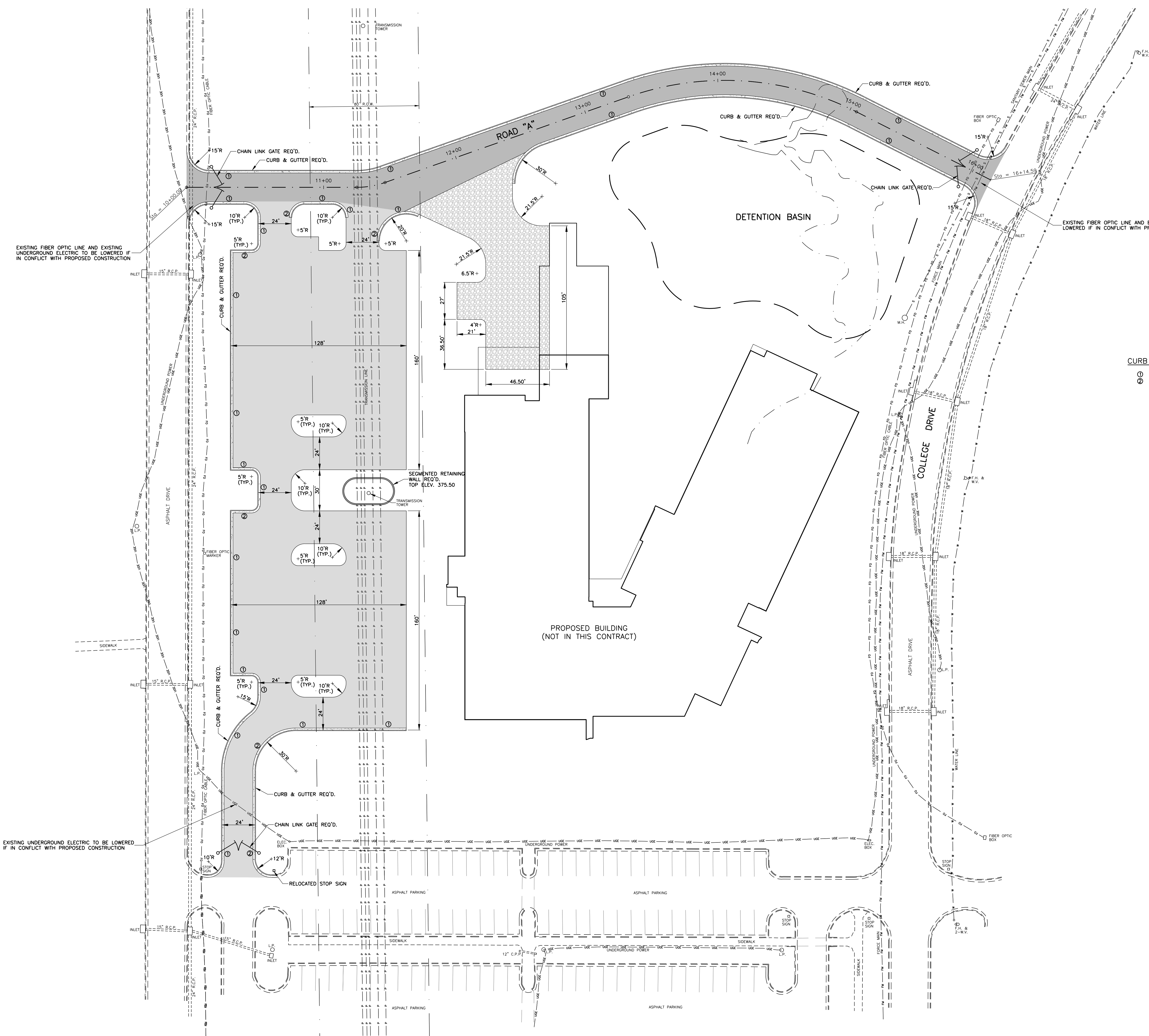
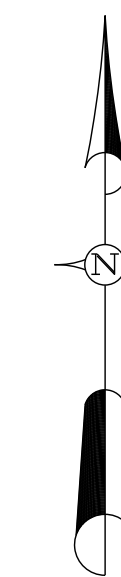
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SITE PLAN



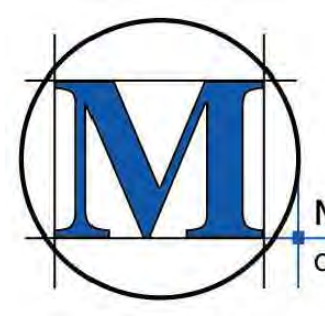
CURB AND GUTTER LEGEND
 ① NORMAL CURB AND GUTTER
 ② PITCHED CURB AND GUTTER

NOTES:

1. THE TOTAL AREA OF THIS DEVELOPMENT IS 7.34 AC./319,820.0 S.F., MORE OR LESS. THE BREAKDOWN OF THIS AREA IS AS FOLLOWS:
 PERVIOUS = 250,381.0 S.F.
 IMPERVIOUS = 69,439.0 S.F.
 TOTAL = 319,820.0 S.F.
2. THIS PROPERTY IS ZONED S-1, SPECIAL USE DISTRICT, IN THE CITY OF PEARL.
3. THIS PROPERTY IS LOCATED IN ZONE X - OTHER AREAS, WHICH IS DEFINED AS, "AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE FLOODPLAIN," AS SHOWN ON FIRM MAP NUMBER 2812100189F, DATED JUNE 9, 2014.
4. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE CITY OF PEARL SPECIFICATIONS.
5. DOMESTIC WATER SERVICE, FIRE PROTECTION, AND SEWER SERVICE WILL BE PROVIDED BY THE CITY OF PEARL.
6. ALL SIGNING AND STRIPING SHALL CONFORM TO THE CITY OF PEARL SPECIFICATIONS.
7. CURB & GUTTER RADII AND DIMENSIONS ARE MEASURED TO THE FACE OF CURB, UNLESS NOTED OTHERWISE.

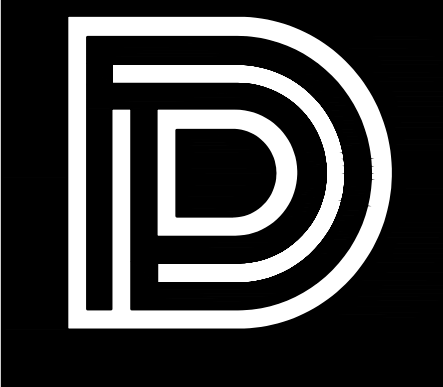
LEGEND

- - - - - EXISTING WATER LINE
- - - - - EXISTING OVERHEAD POWERLINE
- - - - - EXISTING SANITARY SEWER LINE
- - - - - EXISTING SANITARY SEWER FORCE MAIN
- - - - - EXISTING FIBER OPTIC CABLE
- - - - - EXISTING UNDERGROUND ELECTRIC CABLE
- PROPOSED ROAD "A" SECTION
- PROPOSED PARKING/DRIVE LANES/ENTRANCE/EXITS
- PROPOSED CONCRETE AREAS
- PROPOSED CRUSHED STONE AREA



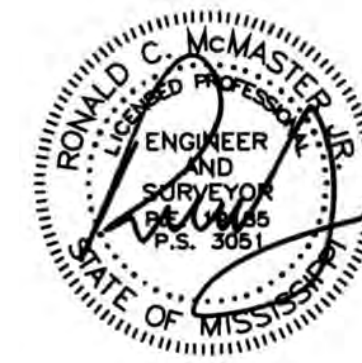
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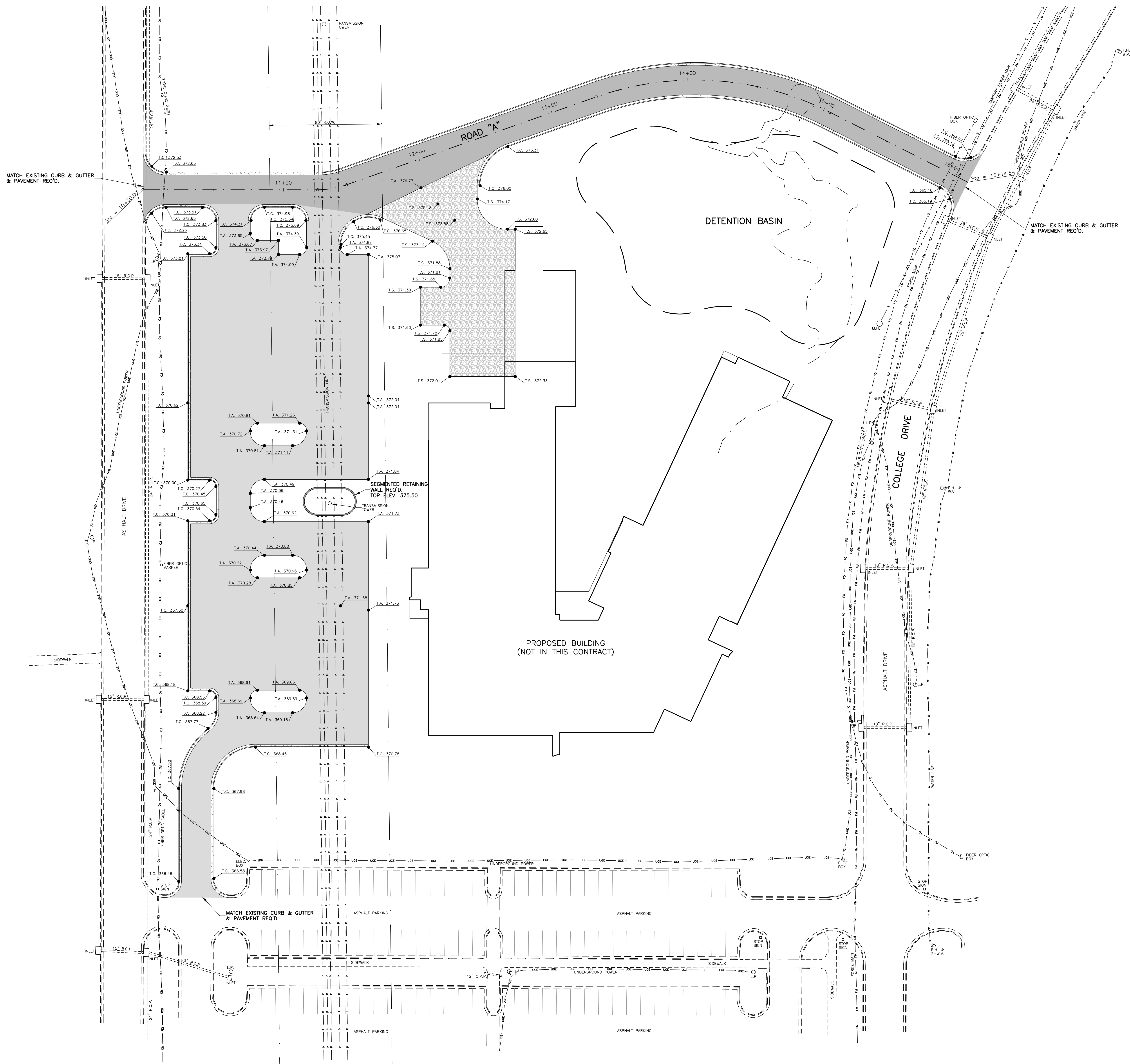
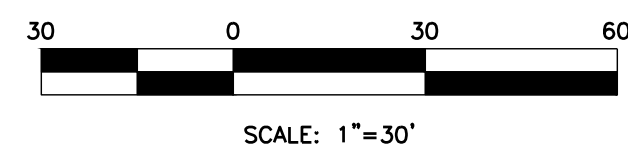
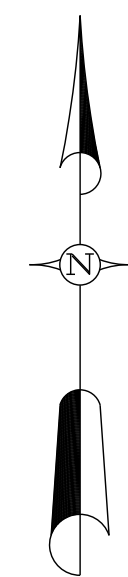
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C2.1

SPOT ELEVATIONS



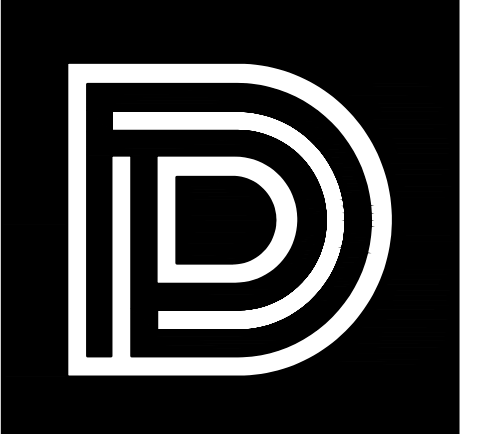
LEGEND

- T.C. 375.00 PROPOSED TOP OF CURB ELEVATION
- T.A. 375.00 PROPOSED TOP OF ASPHALT PAVEMENT ELEVATION
- T.S. 375.00 PROPOSED TOP OF CRUSHED STONE ELEVATION
- EXISTING WATER LINE
- EXISTING OVERHEAD POWERLINE
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING FIBER OPTIC CABLE
- EXISTING UNDERGROUND ELECTRIC CABLE
- PROPOSED ROAD "A" SECTION
- PROPOSED PARKING/DRIVE LANES/ENTRANCE/EXITS
- PROPOSED CONCRETE AREAS
- PROPOSED CRUSHED STONE AREA



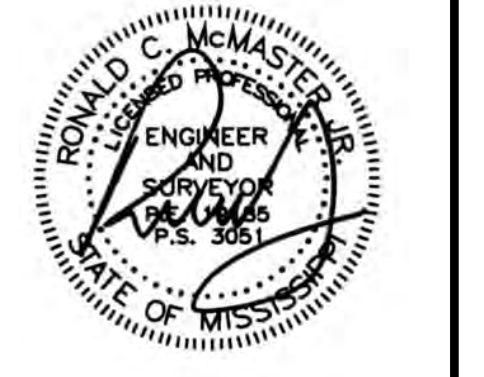
M M^{CM}MASTER & ASSOCIATES, INC.
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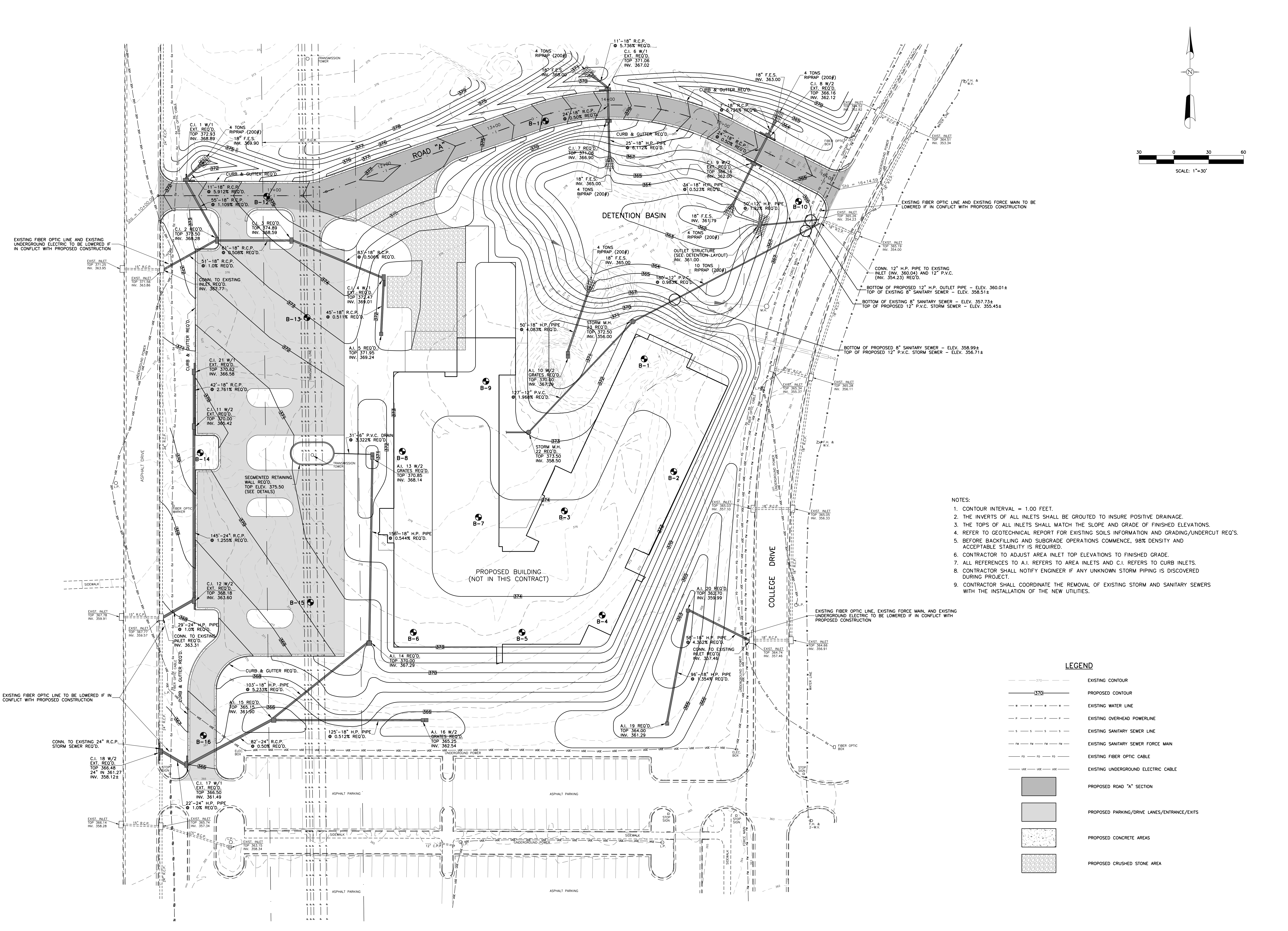
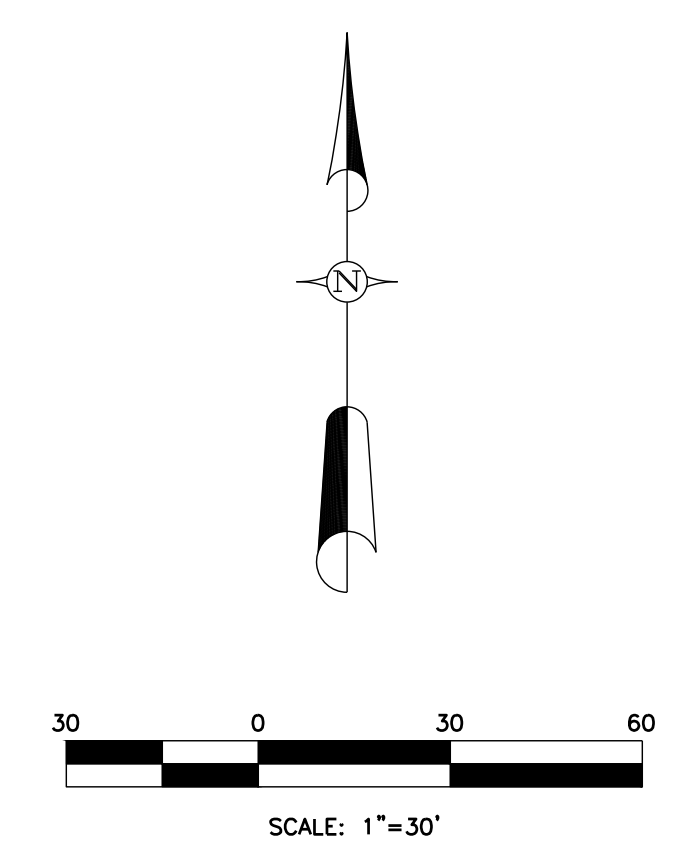
Project No. : 23029
Date: SEPTEMBER 14, 2023
Drawn: DP
Checked: RCM
Revisions: Add. No. 1 - October 6, 2023

HEALTH SCIENCES COMPLEX -
SITE IMPROVEMENTS PACKAGE
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI (HCC BID #3282)

Sheet Number:

C2.2

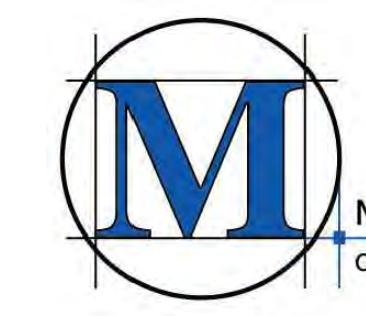
GRADING AND DRAINAGE



- NOTES:
1. CONTOUR INTERVAL = 1.00 FEET.
 2. THE INVERTS OF ALL INLETS SHALL BE GROUTED TO INSURE POSITIVE DRAINAGE.
 3. THE TOPS OF ALL INLETS SHALL MATCH THE SLOPE AND GRADE OF FINISHED ELEVATIONS.
 4. REFER TO GEOTECHNICAL REPORT FOR EXISTING SOILS INFORMATION AND GRADING/UNDERCUT REQ'S.
 5. BEFORE BACKFILLING AND SUBGRADE OPERATIONS COMMENCE, 98% DENSITY AND ACCEPTABLE STABILITY IS REQUIRED.
 6. CONTRACTOR TO ADJUST AREA INLET TOP ELEVATIONS TO FINISHED GRADE.
 7. ALL REFERENCES TO A.I. REFERS TO AREA INLETS AND C.I. REFERS TO CURB INLETS.
 8. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY UNKNOWN STORM PIPING IS DISCOVERED DURING PROJECT.
 9. CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING STORM AND SANITARY SEWERS WITH THE INSTALLATION OF THE NEW UTILITIES.

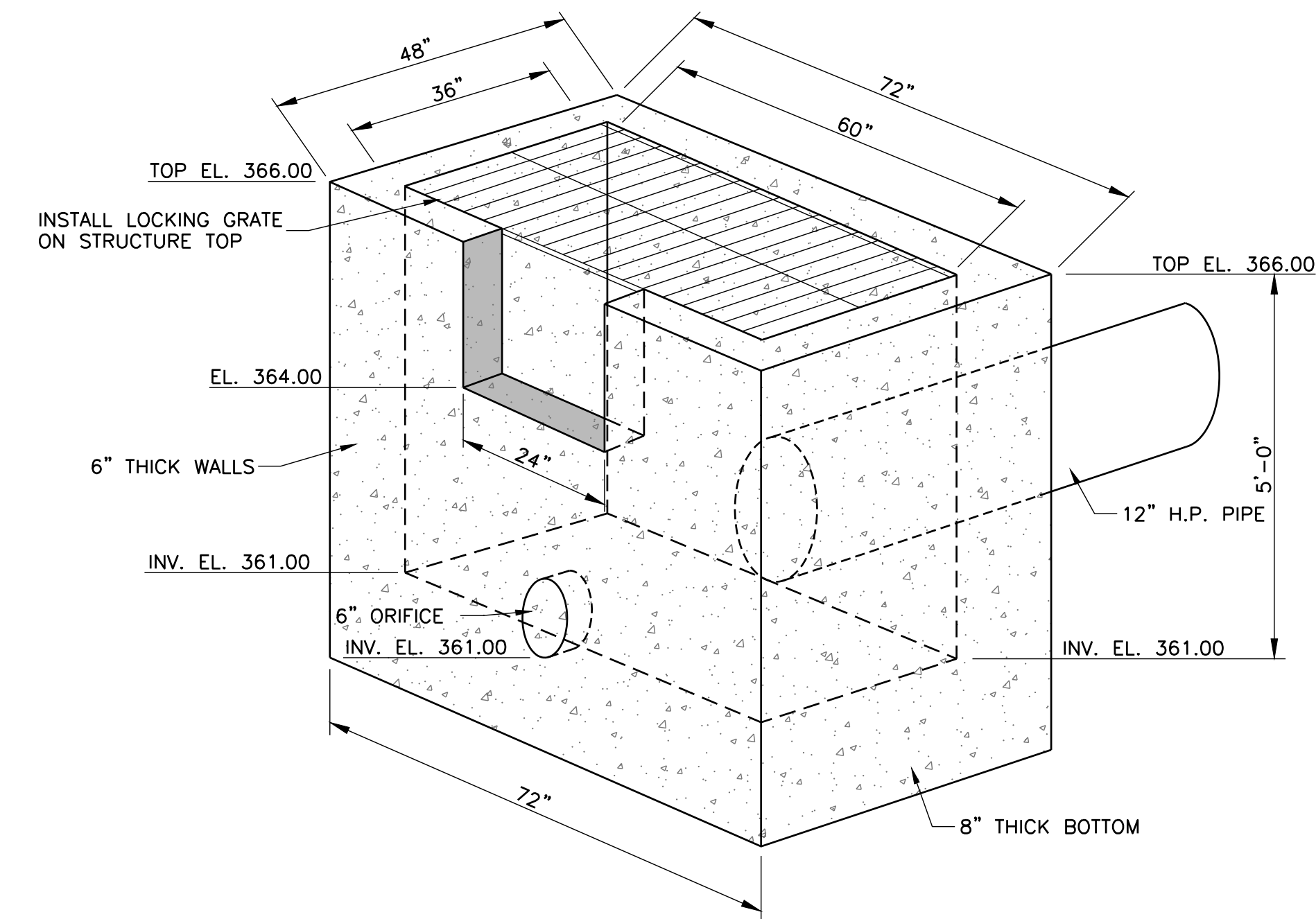
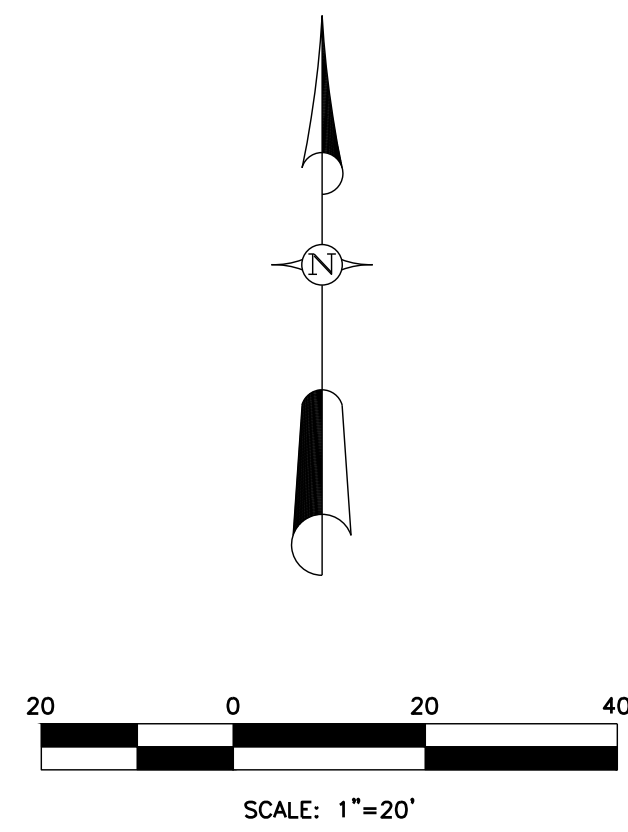
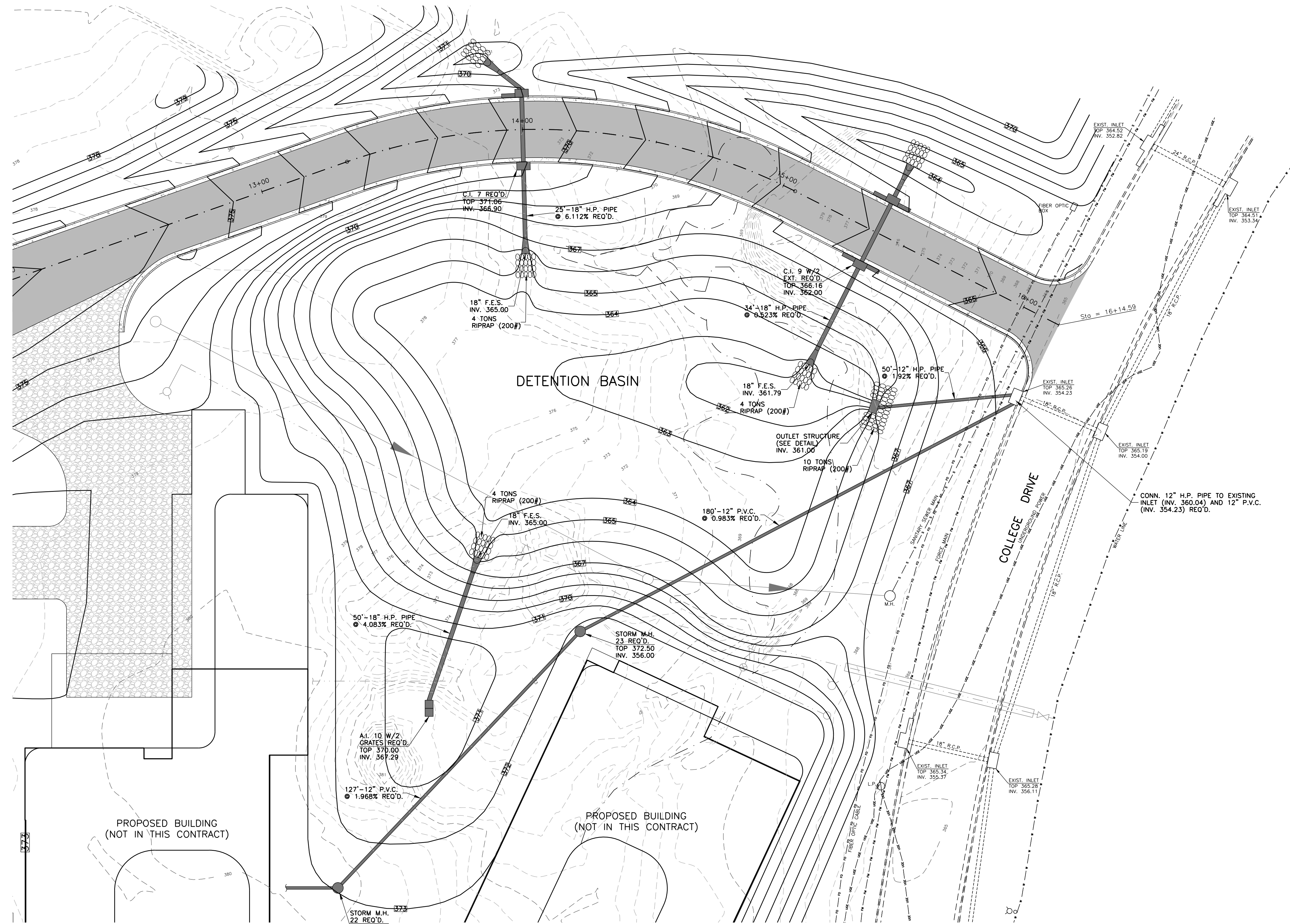
LEGEND

	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING WATER LINE
	EXISTING OVERHEAD POWERLINE
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER FORCE MAIN
	EXISTING FIBER OPTIC CABLE
	EXISTING UNDERGROUND ELECTRIC CABLE
	PROPOSED ROAD "A" SECTION
	PROPOSED PARKING/DRIVE LANES/ENTRANCE/EXITS
	PROPOSED CONCRETE AREAS
	PROPOSED CRUSHED STONE AREA



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DETENTION BASIN
OUTLET STRUCTURE DETAIL
N.T.S.

LEGEND

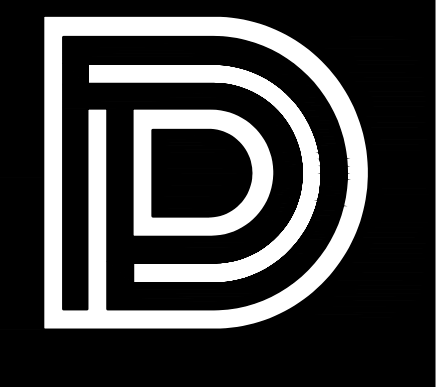
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING WATER LINE
- EXISTING OVERHEAD POWERLINE
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER FORCE MAIN
- EXISTING FIBER OPTIC CABLE
- EXISTING UNDERGROUND ELECTRIC CABLE
- PROPOSED ROAD "A" SECTION
- PROPOSED PARKING/DRIVE LANES/ENTRANCE/EXITS
- PROPOSED CONCRETE AREAS
- PROPOSED CRUSHED STONE AREA

HYDRAULIC INFORMATION

2 YEAR RUNOFF (EXIST.) - 3.75 CFS	25 YEAR RUNOFF (EXIST.) - 8.31 CFS
2 YEAR RUNOFF (PROP.) - 5.05 CFS	25 YEAR RUNOFF (PROP.) - 11.86 CFS
2 YEAR TOTAL RUNOFF (EXIST.) - 8.35 CFS	25 YEAR TOTAL RUNOFF (EXIST.) - 19.15 CFS
DETENTION OUTFLOW - 2.28 CFS	DETENTION OUTFLOW - 5.54 CFS
DETENTION MAX. ELEV. - 364.22	DETENTION MAX. ELEV. - 364.73
2 YEAR TOTAL RUNOFF (PROP.) - 5.74 CFS	25 YEAR TOTAL RUNOFF (PROP.) - 11.72 CFS
5 YEAR RUNOFF (EXIST.) - 5.48 CFS	50 YEAR RUNOFF (EXIST.) - 9.67 CFS
5 YEAR RUNOFF (PROP.) - 7.61 CFS	50 YEAR RUNOFF (PROP.) - 13.91 CFS
5 YEAR TOTAL RUNOFF (EXIST.) - 12.43 CFS	50 YEAR TOTAL RUNOFF (EXIST.) - 22.39 CFS
DETENTION OUTFLOW - 3.40 CFS	DETENTION OUTFLOW - 6.25 CFS
DETENTION MAX. ELEV. - 364.42	DETENTION MAX. ELEV. - 364.88
5 YEAR TOTAL RUNOFF (PROP.) - 7.79 CFS	50 YEAR TOTAL RUNOFF (PROP.) - 13.75 CFS
10 YEAR RUNOFF (EXIST.) - 6.82 CFS	100 YEAR RUNOFF (EXIST.) - 10.72 CFS
10 YEAR RUNOFF (PROP.) - 9.60 CFS	100 YEAR RUNOFF (PROP.) - 15.51 CFS
10 YEAR TOTAL RUNOFF (EXIST.) - 15.59 CFS	100 YEAR TOTAL RUNOFF (EXIST.) - 24.92 CFS
DETENTION OUTFLOW - 4.38 CFS	DETENTION OUTFLOW - 6.36 CFS
DETENTION MAX. ELEV. - 364.57	DETENTION MAX. ELEV. - 365.02
10 YEAR TOTAL RUNOFF (PROP.) - 9.57 CFS	100 YEAR TOTAL RUNOFF (PROP.) - 15.38 CFS

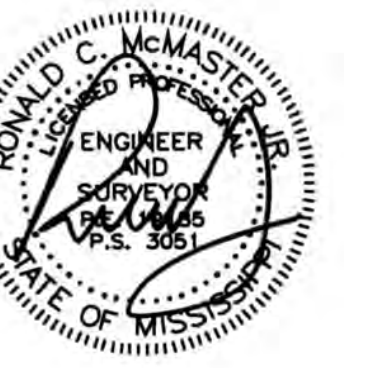
DRAINAGE AREA (EXIST.) - 2.39 AC. (BASIN INFLOW) + 1.38 AC. (NOT THRU BASIN)
DRAINAGE AREA (PROP.) - 2.39 AC. (BASIN INFLOW) + 1.38 AC. (NOT THRU BASIN)

NOTE:
THE TOTAL EXISTING AND PROPOSED FLOW ACCOUNTS FOR OVER-DETAINING
THE 1.38 ACRES THAT DRAINS INTO THE SAME STORM SEWER SYSTEM IN
THE SOUTHWEST CORNER OF THE SITE. SEE HYDRAULIC CALCS.



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PEARL, MISSISSIPPI (HCC BID #3282)

Sheet Number:

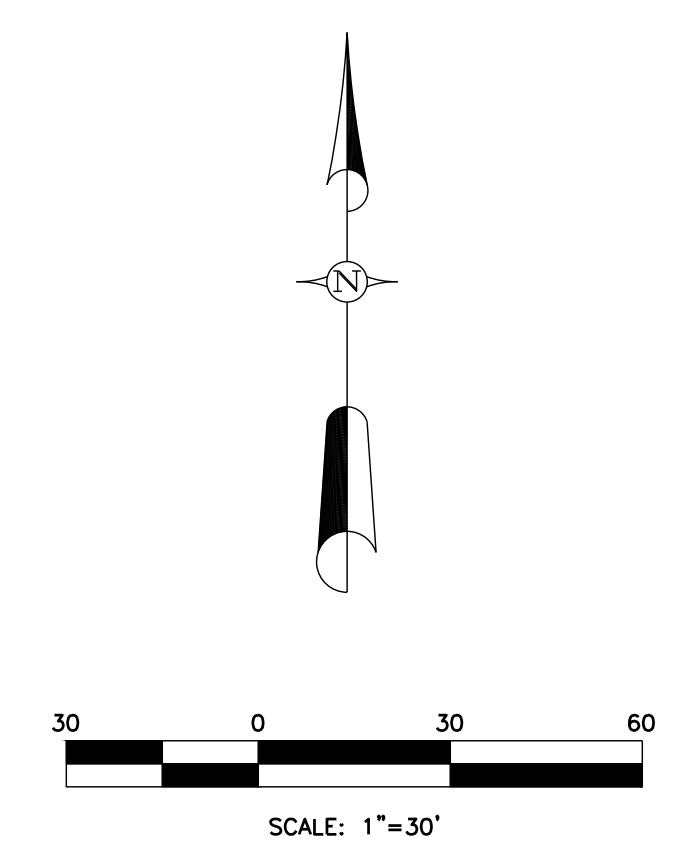
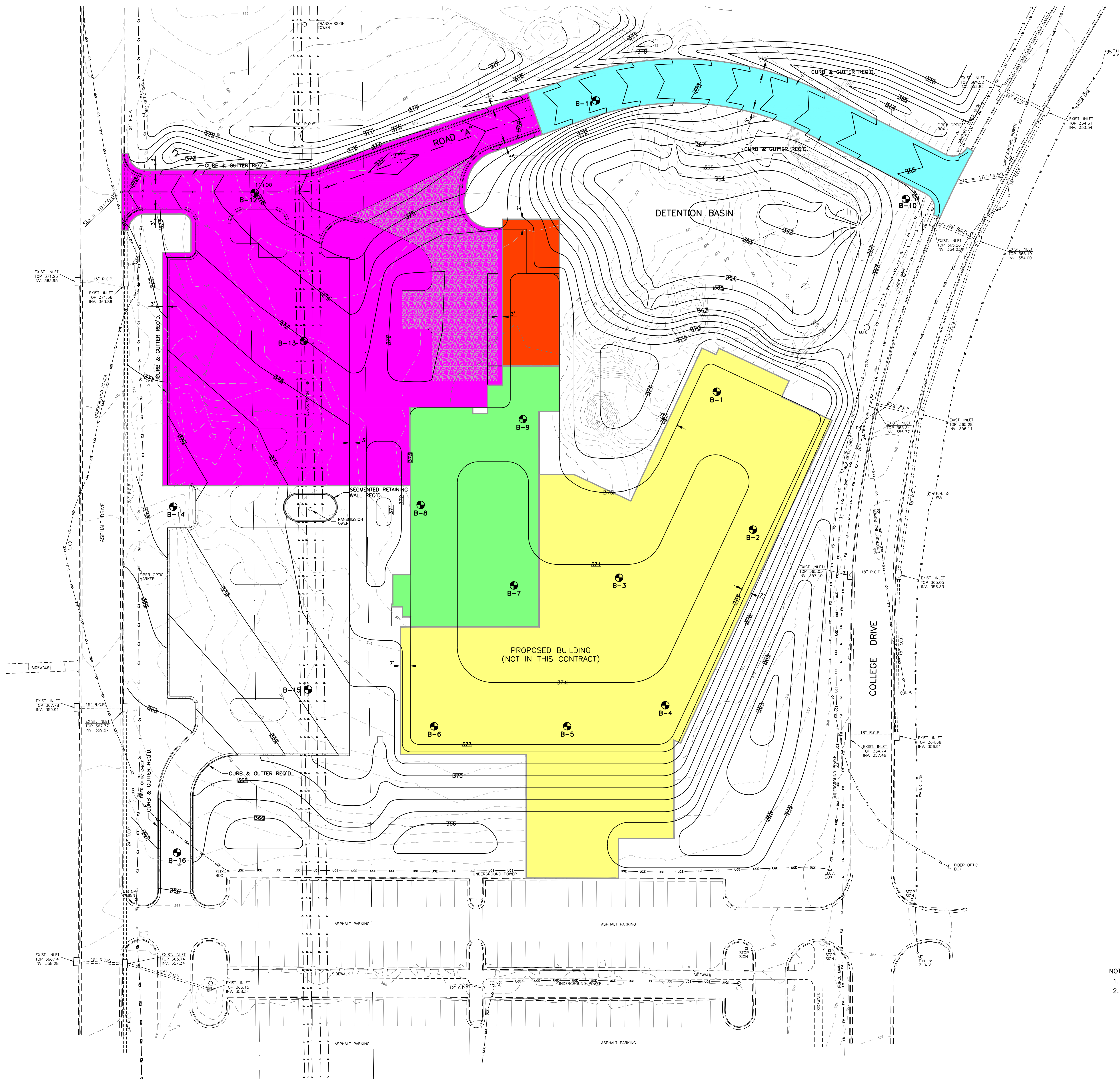
C2.3

DETENTION LAYOUT



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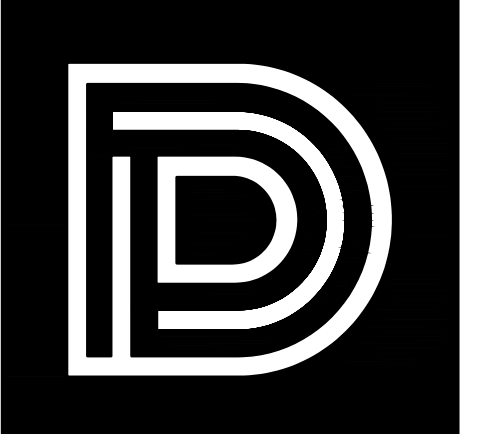
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UNDERCUT LEGEND

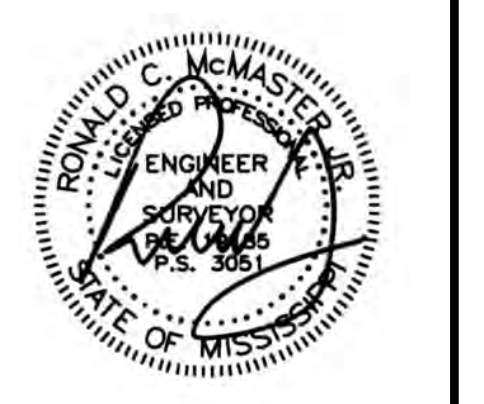
	PROPOSED 1.5' UNDERCUT
	PROPOSED 3' UNDERCUT
	PROPOSED 5' UNDERCUT
	PROPOSED 7' UNDERCUT
	FUTURE CRAWL SPACE (NO UNDERCUT REQUIRED)

- NOTES:**
1. DEPTHS OF UNDERCUT FOR BUILDING AREAS ARE MEASURED FROM ELEV. 372.00.
 2. DEPTHS OF UNDERCUT FOR PARKING/DRIVES ARE MEASURED FROM TOP OF SUBGRADE ELEVATIONS.



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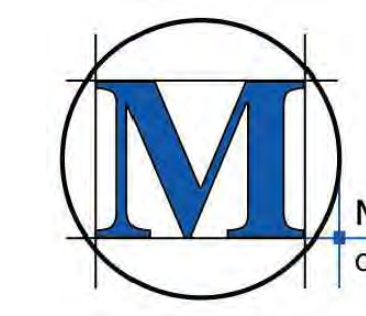
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Sheet Number:

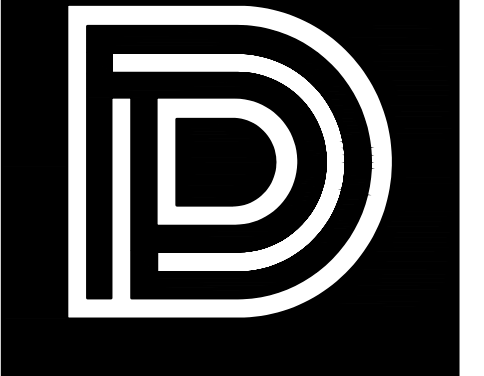
C2.4

UNDERCUT PLAN



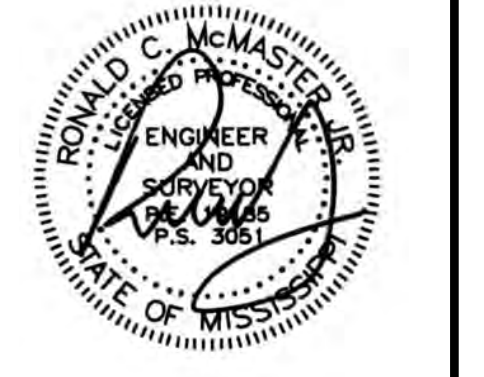
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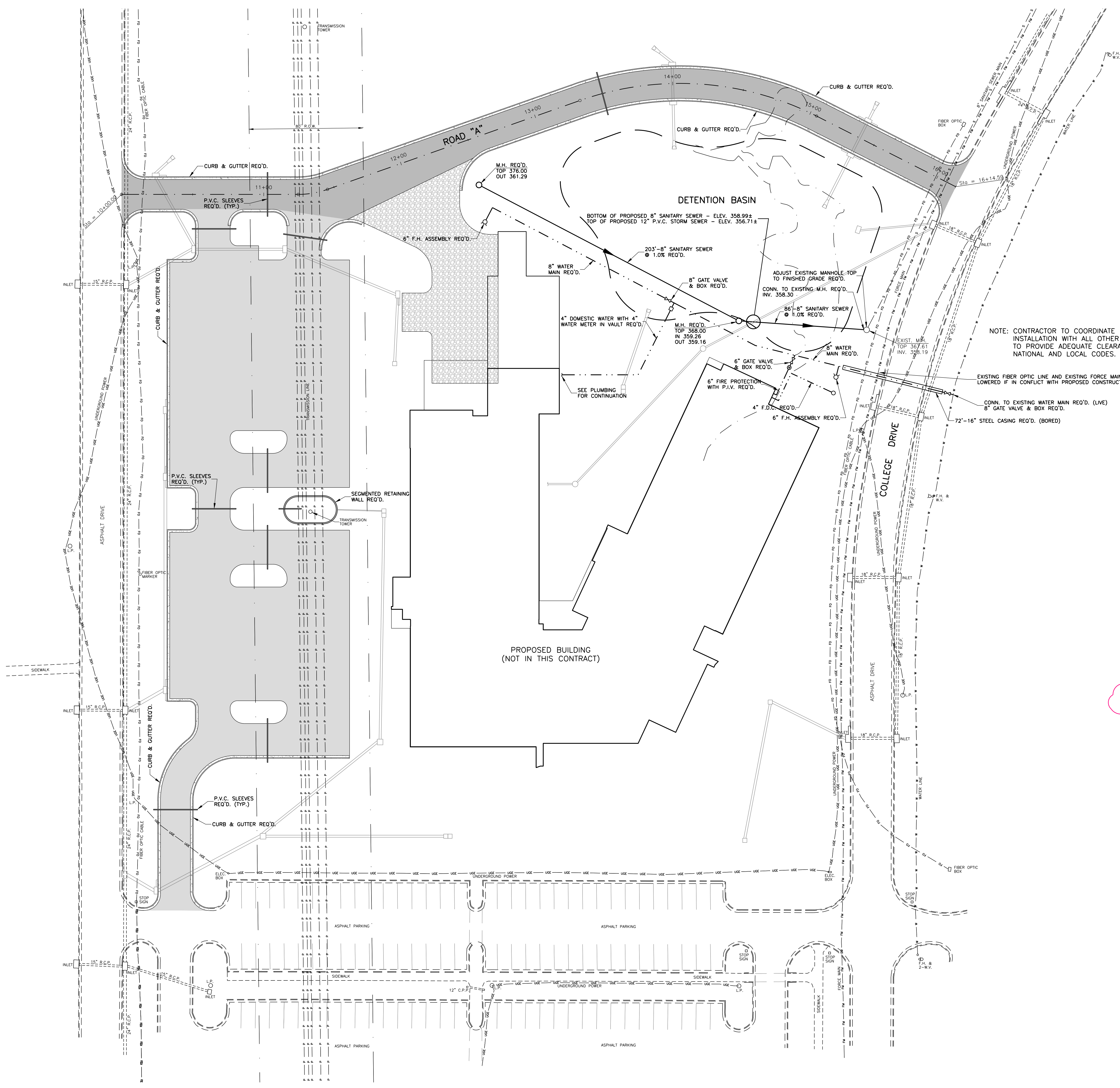
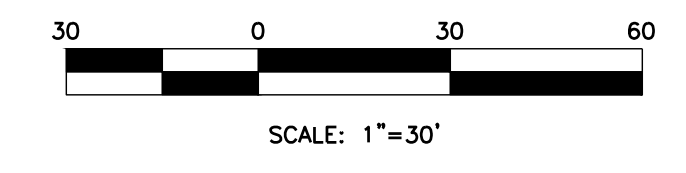
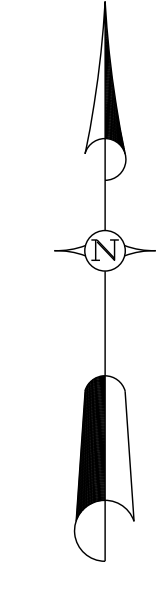
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Sheet Number:

C3.1

UTILITY PLAN



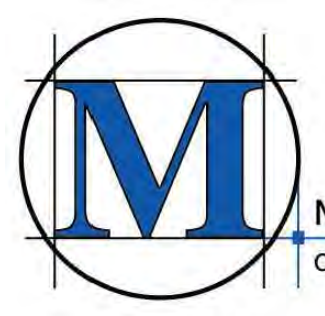
NOTE: CONTRACTOR TO COORDINATE DOMESTIC AND FIRE MAIN INSTALLATION WITH ALL OTHER UTILITIES AND APPURTENANCES TO PROVIDE ADEQUATE CLEARANCES IN ACCORDANCE WITH NATIONAL AND LOCAL CODES.

EXISTING FIBER OPTIC LINE AND EXISTING FORCE MAIN TO BE LOWERED IF IN CONFLICT WITH PROPOSED CONSTRUCTION
CONN. TO EXISTING WATER MAIN REQ'D. (LIVE)
8" GATE VALVE & BOX REQ'D.
72"-16" STEEL CASING REQ'D. (BORED)

- NOTES:
1. ALL P.V.C. SLEEVES SHALL BE 2-4" SCH. 40 (SIDE BY SIDE) AND SHALL INCLUDE END CAPS, PULL STRINGS, AND THE ENDS MARKED WITH A 6" METAL FENCE POST.
 2. ROUTE PROPOSED UTILITIES TO AVOID CONFLICTS WITH EXISTING AND PROPOSED IMPROVEMENTS.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL TAP AND METER FEES FOR UTILITIES.
 4. THE CITY IS NOT RESPONSIBLE FOR THE MAINTENANCE OF THE WATER AND SEWER BEYOND A 25' OFFSET OF THE CENTERLINE OF ROADWAY.

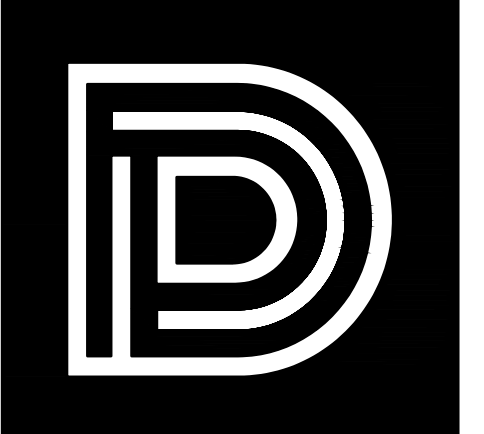
LEGEND

	EXISTING WATER LINE
	EXISTING OVERHEAD POWERLINE
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER FORCE MAIN
	EXISTING FIBER OPTIC CABLE
	EXISTING UNDERGROUND ELECTRIC CABLE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER SERVICE
	PROPOSED ROAD "A" SECTION
	PROPOSED PARKING/DRIVE LANES/ENTRANCE/EXITS
	PROPOSED CONCRETE AREAS
	PROPOSED CRUSHED STONE AREA



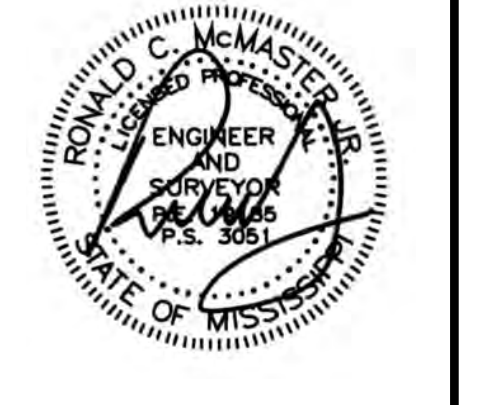
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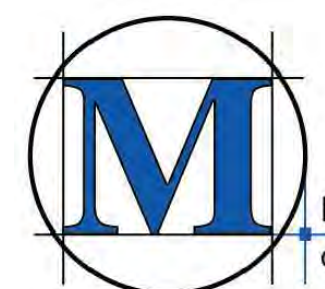
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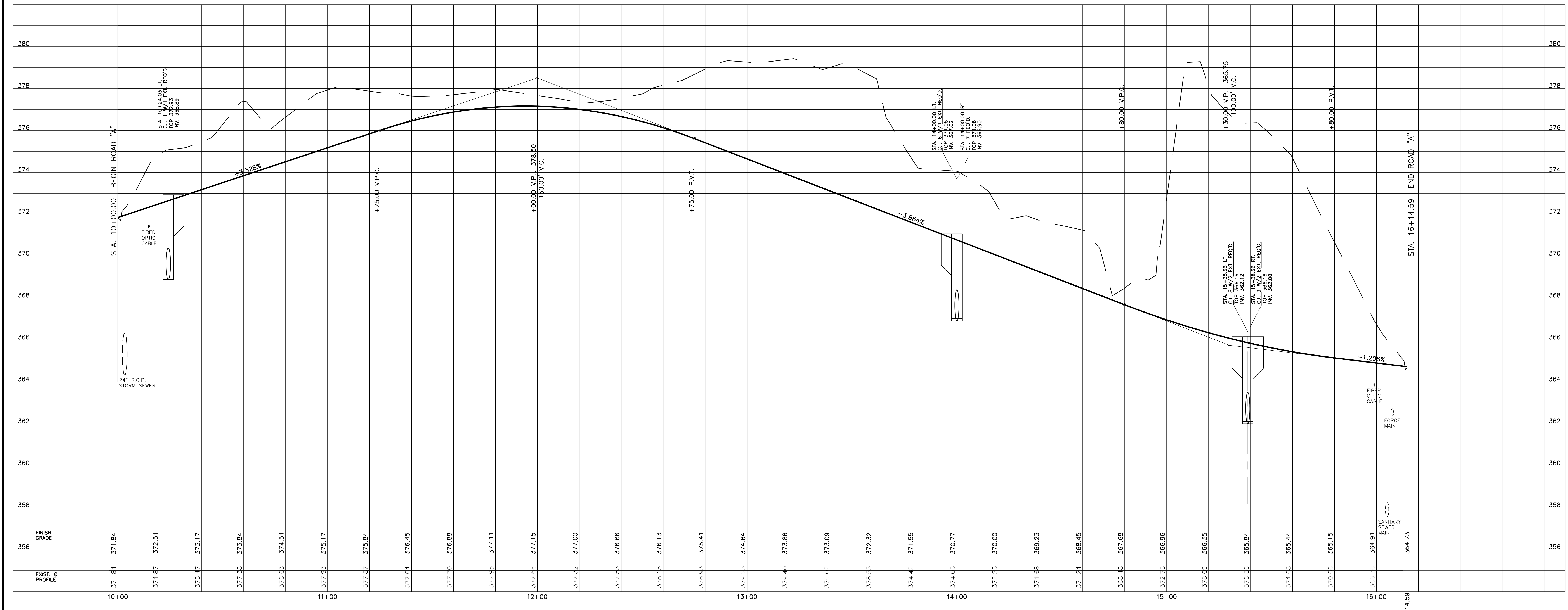
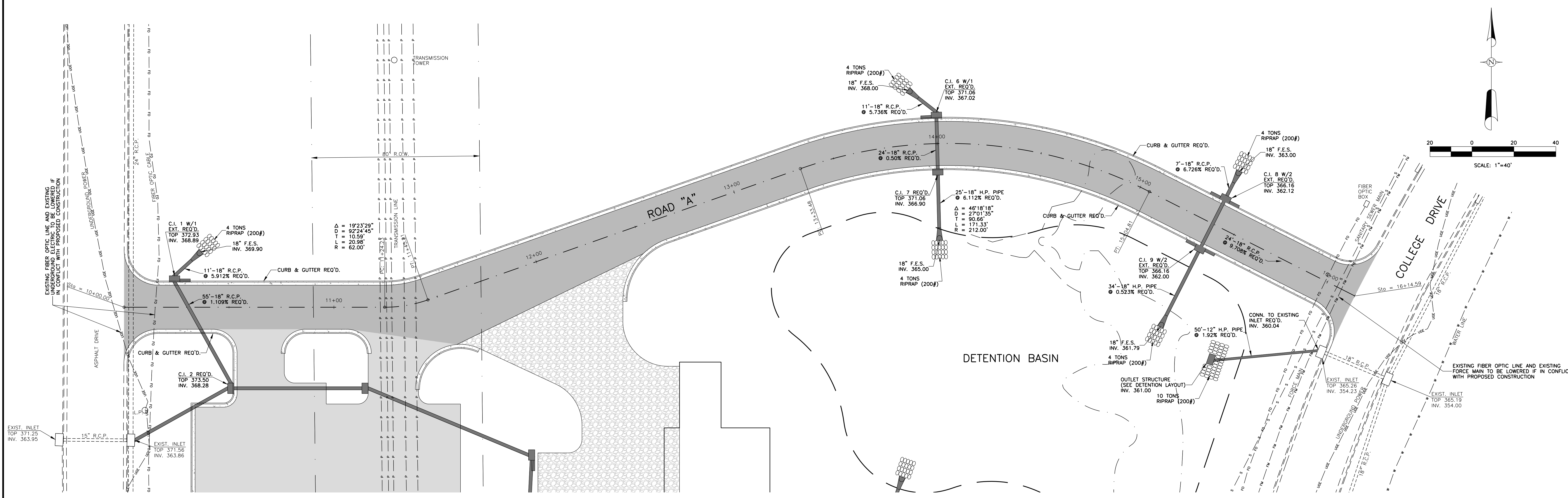
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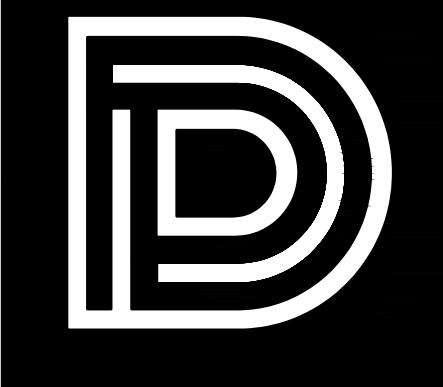
PLAN AND PROFILE
ROAD "A"



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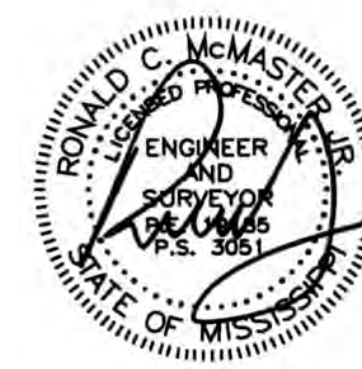


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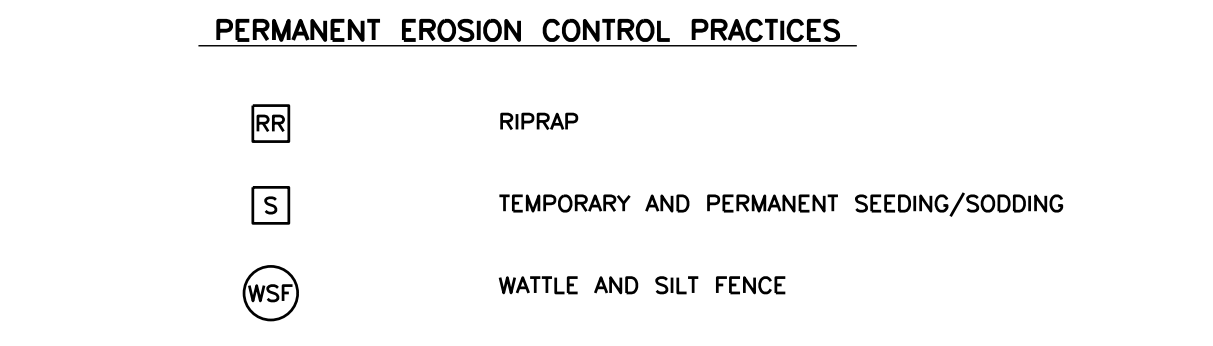
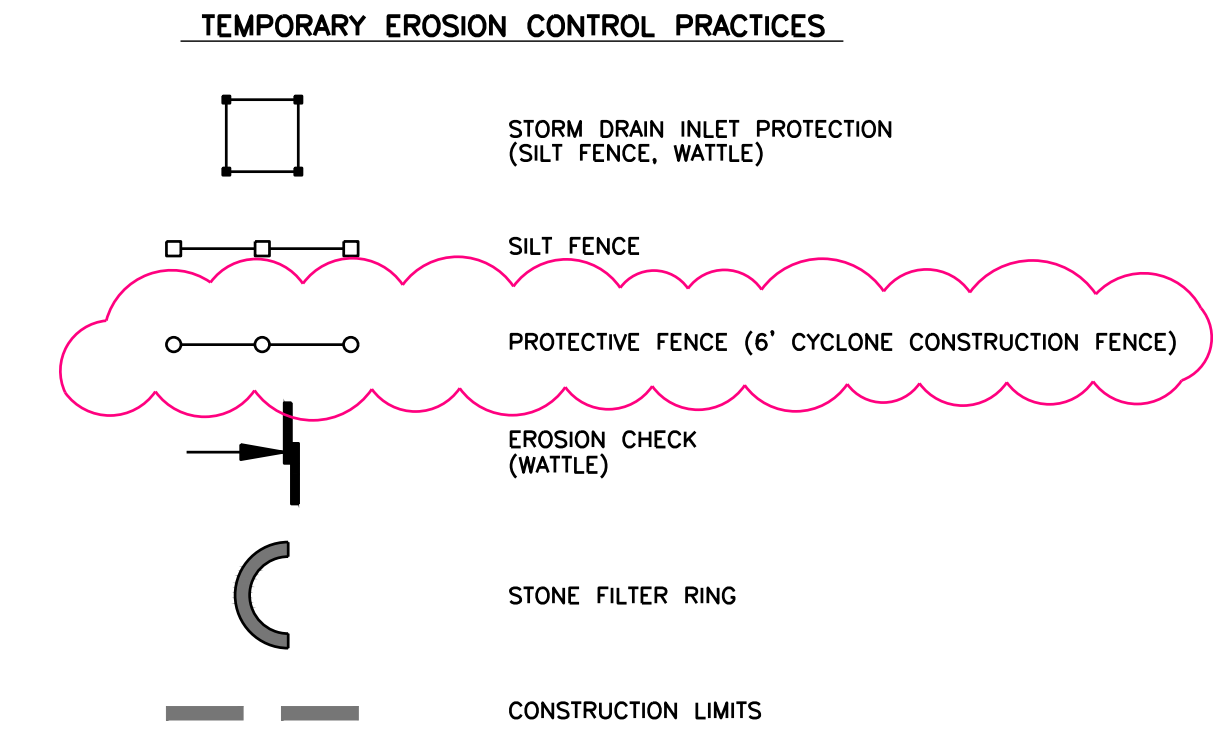
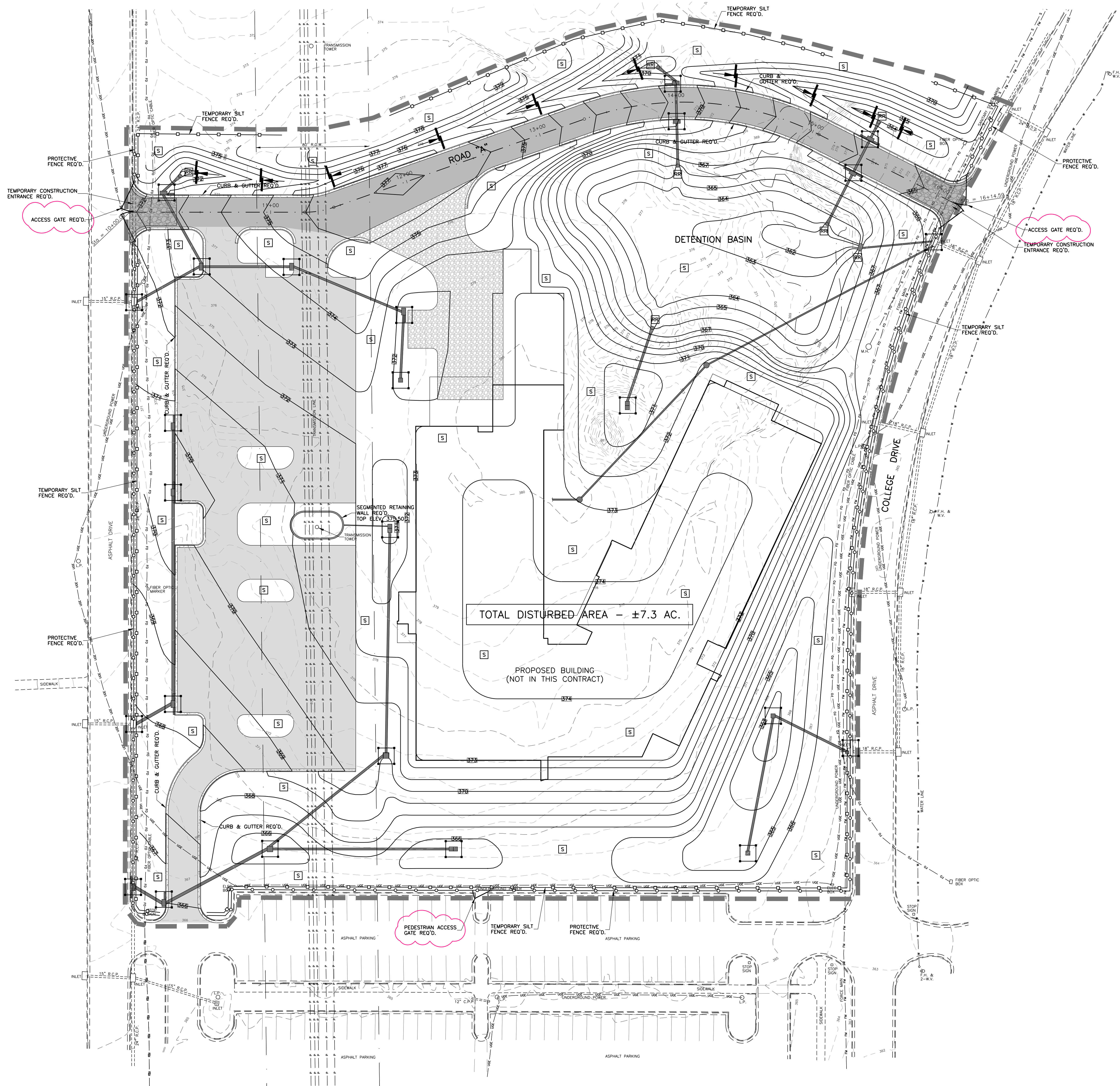
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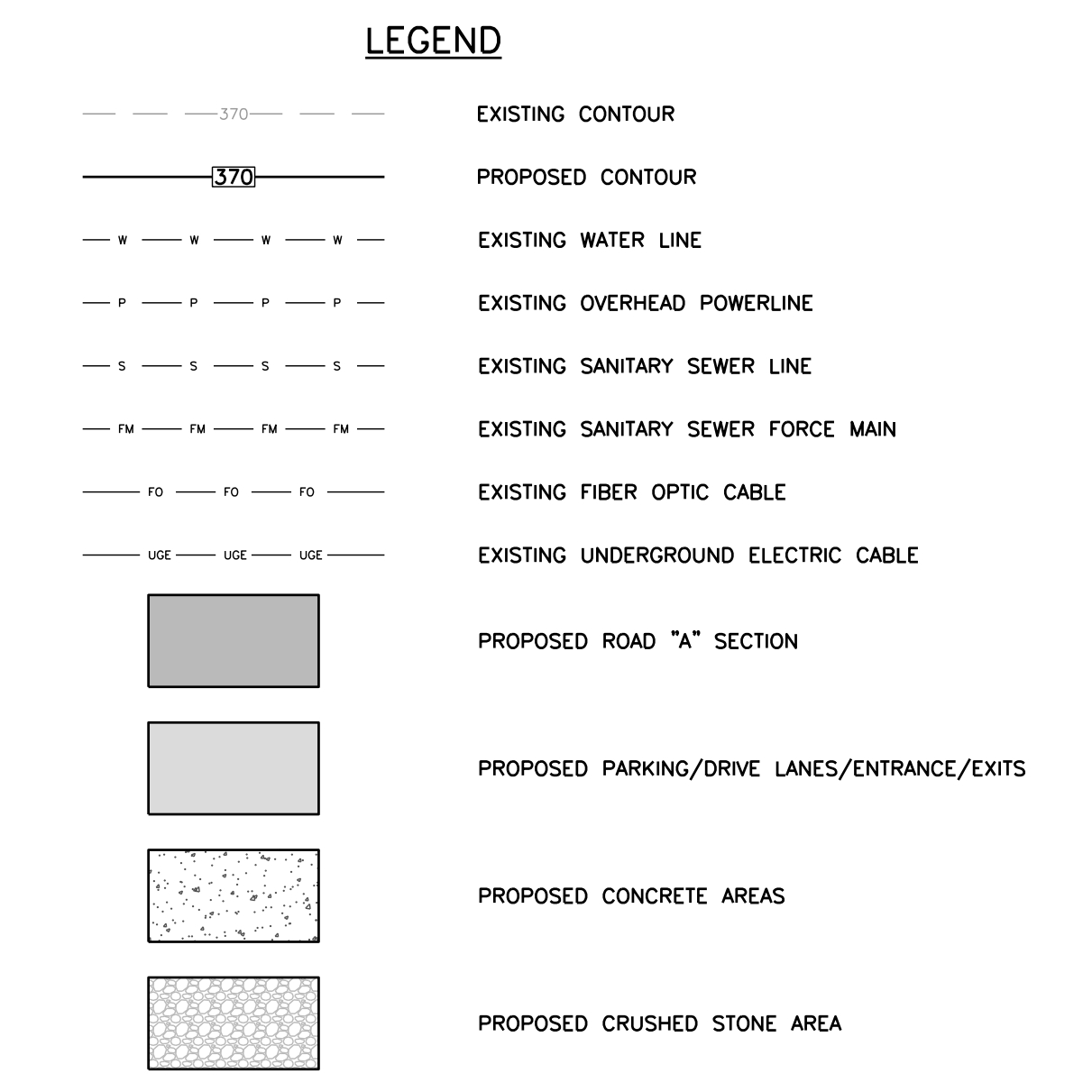
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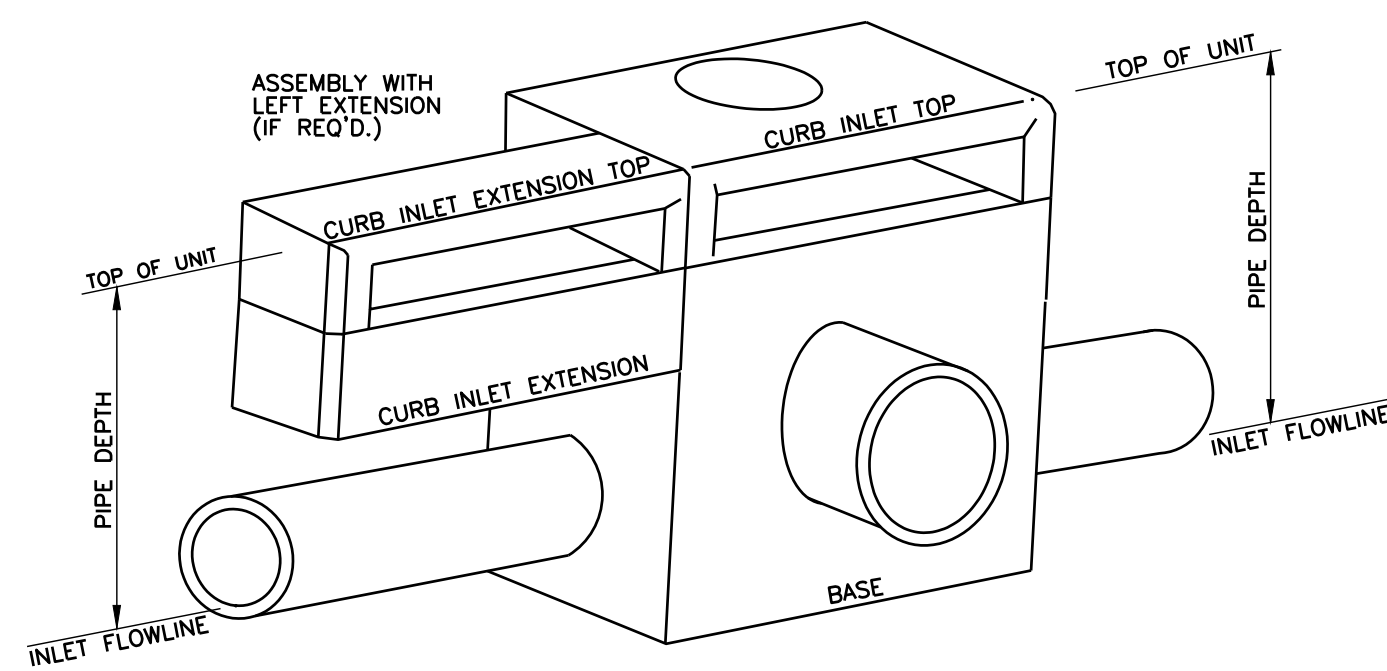
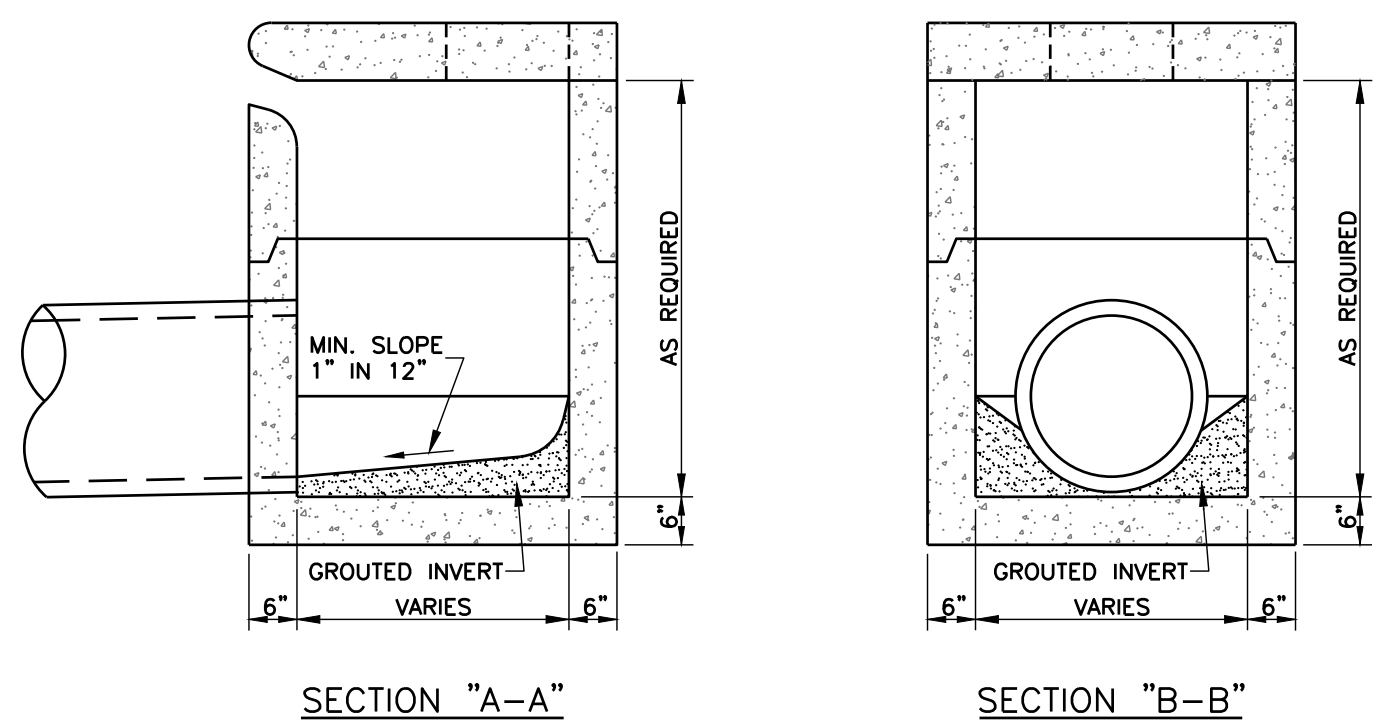
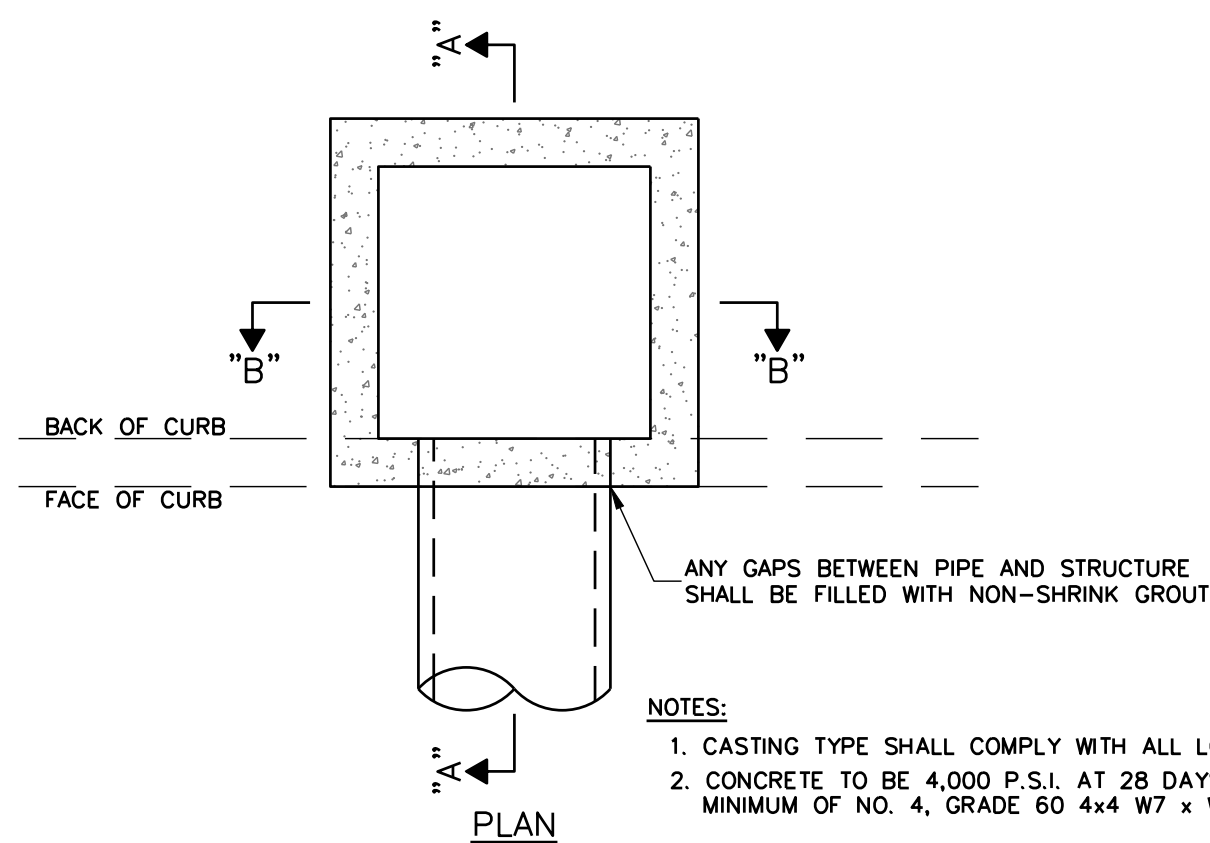
EROSION CONTROL
PLAN



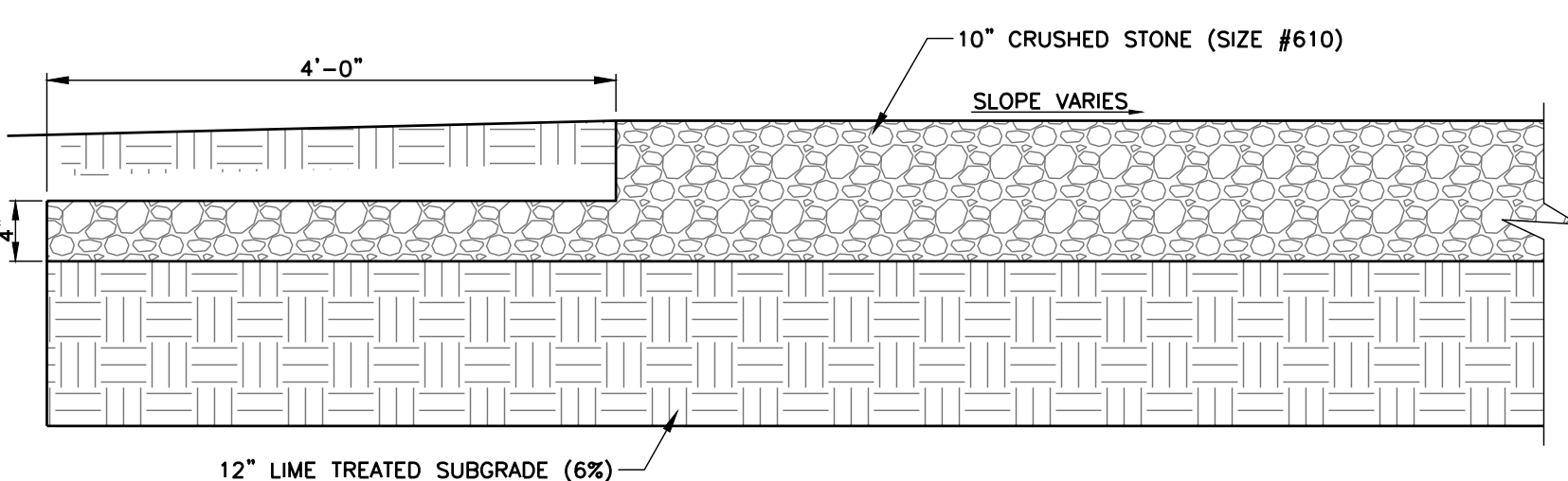
NOTES:
CONTRACTOR SHALL KEEP ALL EXISTING STREETS FREE AND CLEAN OF DEBRIS AND SEDIMENT DURING CONSTRUCTION.
ALL INLETS SHALL BE PROTECTED BY SILT FENCE AND WATTLES FOLLOWING INSTALLATION. CONTRACTOR SHALL MAINTAIN INLET PROTECTION UNTIL FINAL STABILIZATION.
FOLLOW PLANNING AND DESIGN MANUAL (DEO) FOR STORMWATER MANAGEMENT.
ANY DISTURBED AREAS LAID-UP FOR OVER 7 DAYS WILL BE SEEDED (TEMPORARY) IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS WILL BE SEEDED IMMEDIATELY.
NO CONSTRUCTION TRAFFIC OR OPERATIONS WILL BE ALLOWED WITHIN THE BLUE HEALTH PARKING LOT



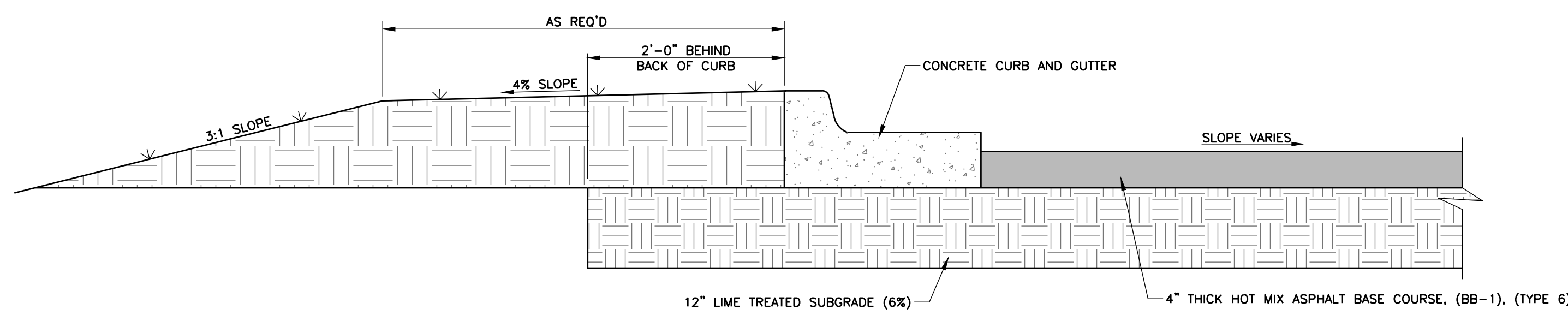
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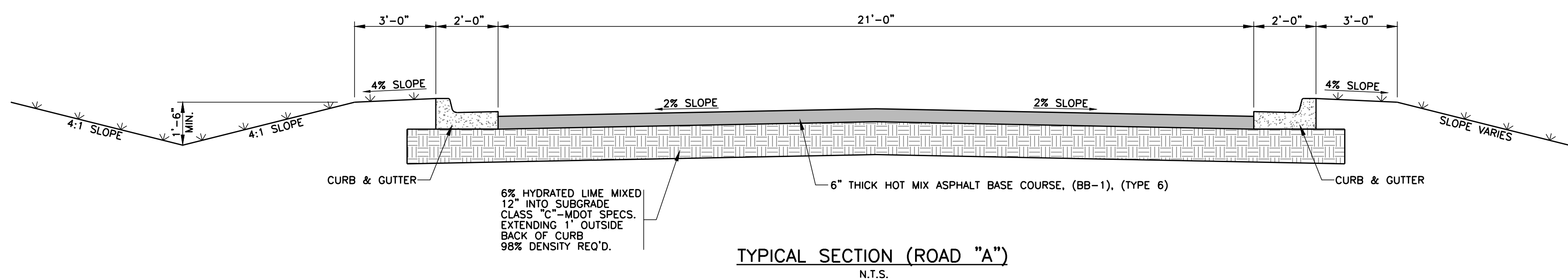
PRECAST CURB INLET DETAIL
N.T.S.



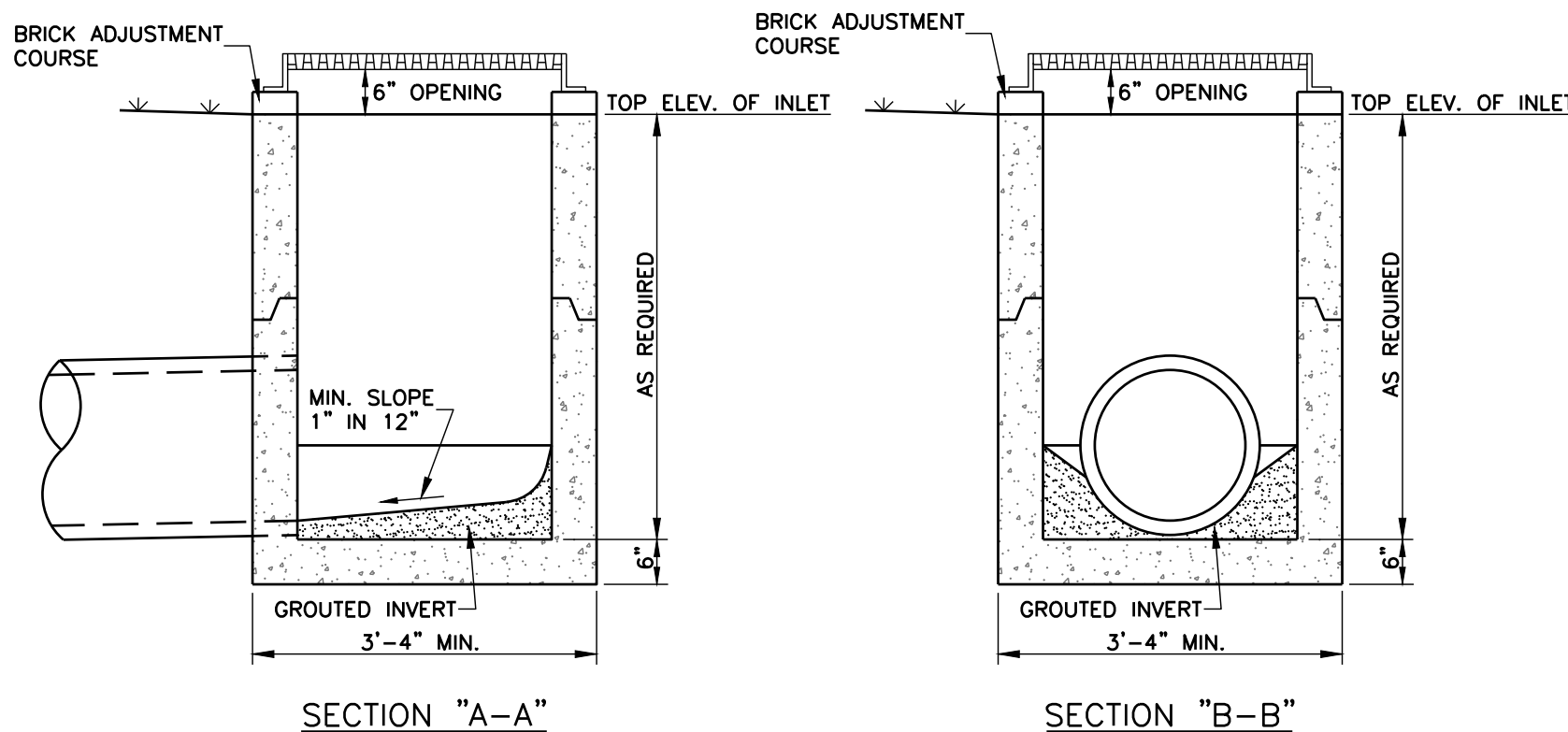
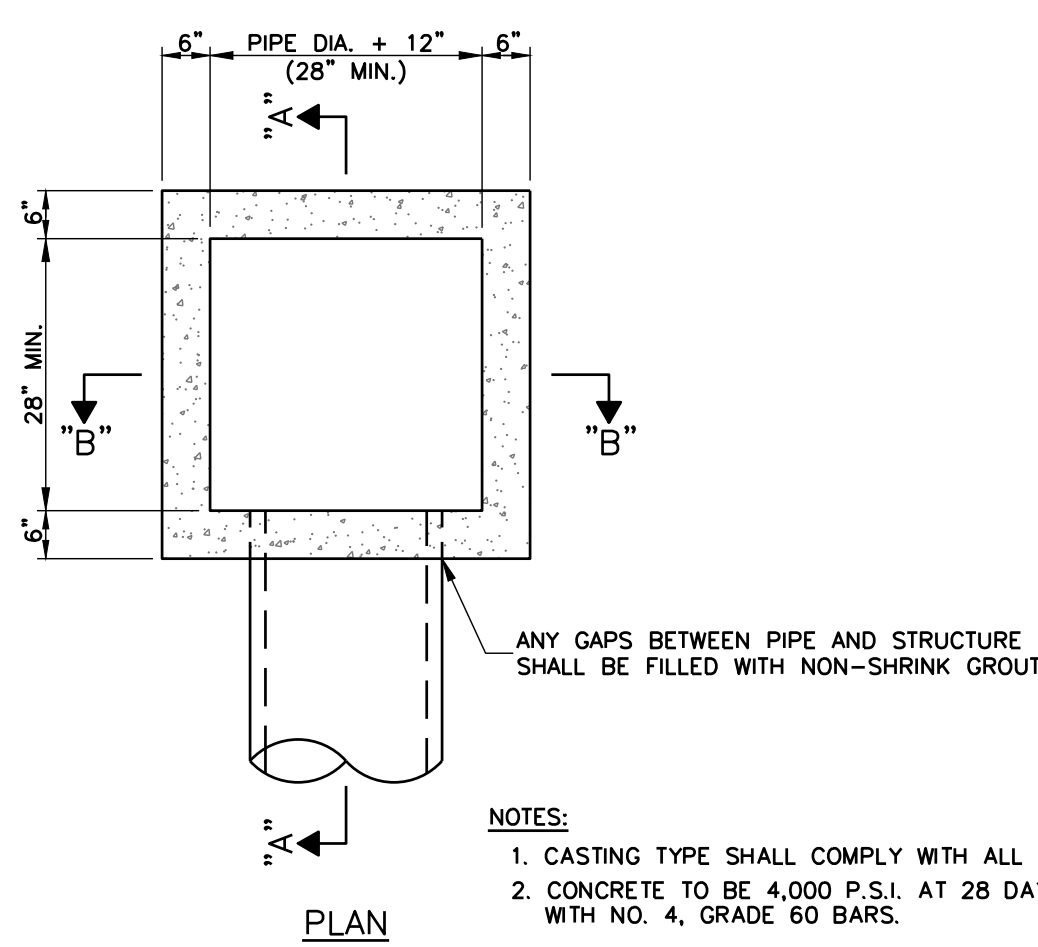
CRUSHED STONE SECTION
N.T.S.



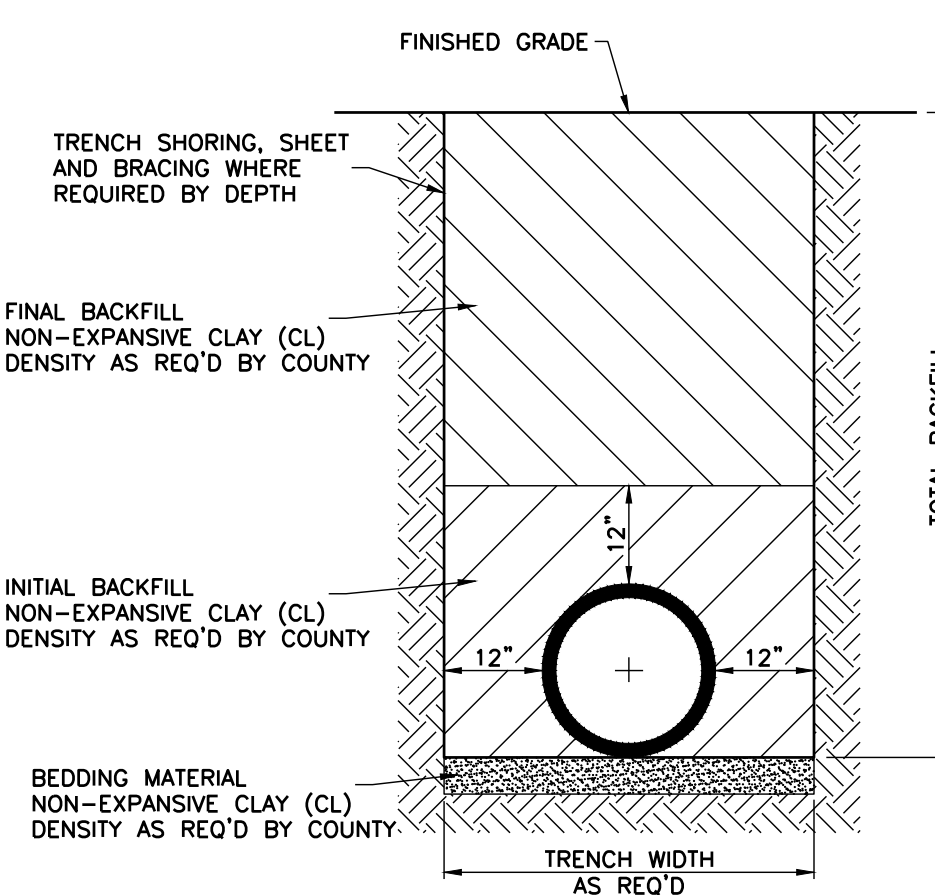
ASPHALT PAVEMENT (PARKING AND DRIVE LANES)
N.T.S.



TYPICAL SECTION (ROAD "A")
N.T.S.

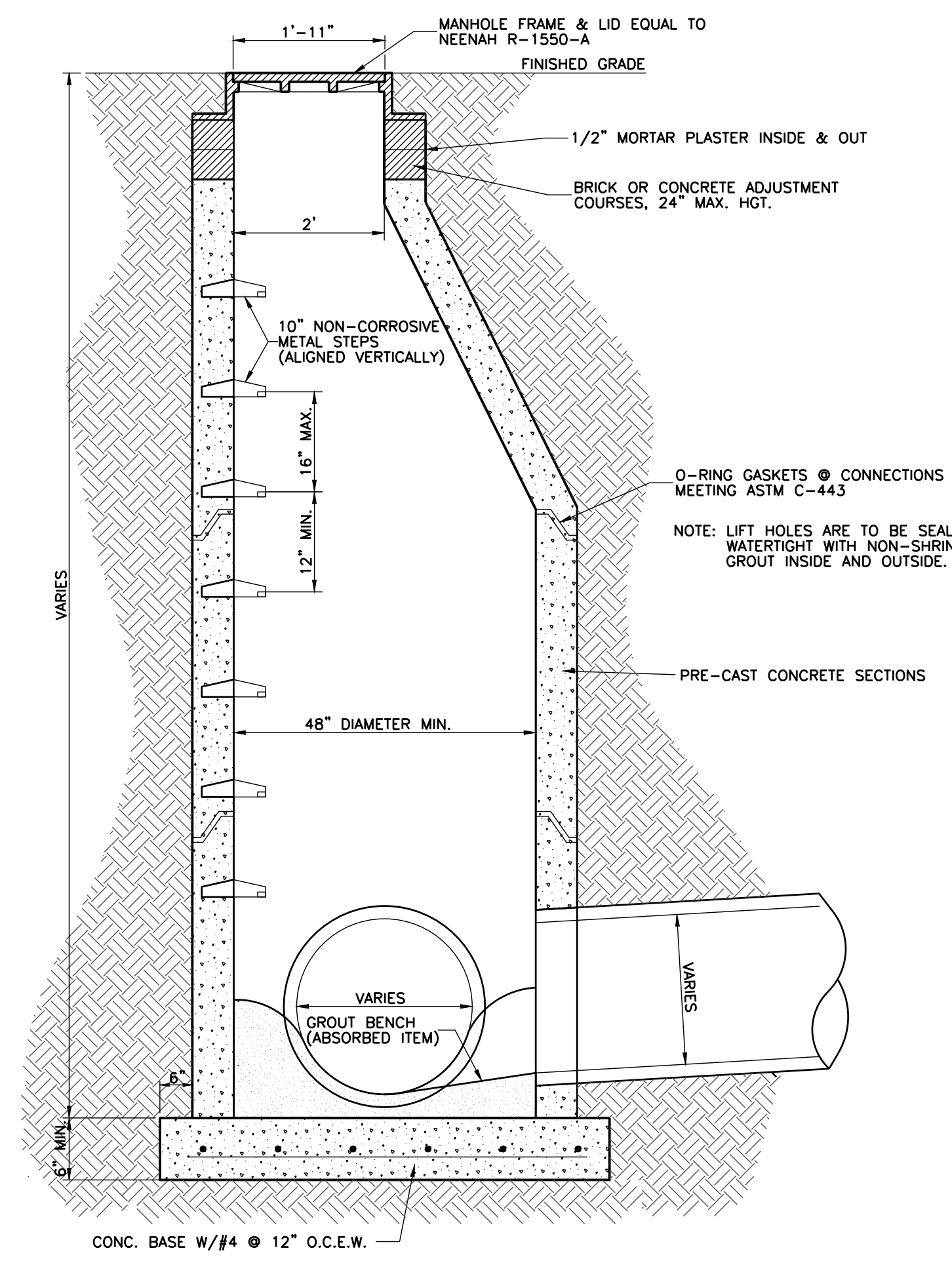


SINGLE PRECAST AREA INLET DETAILS
(LOCATED IN OPEN AREAS)
N.T.S.

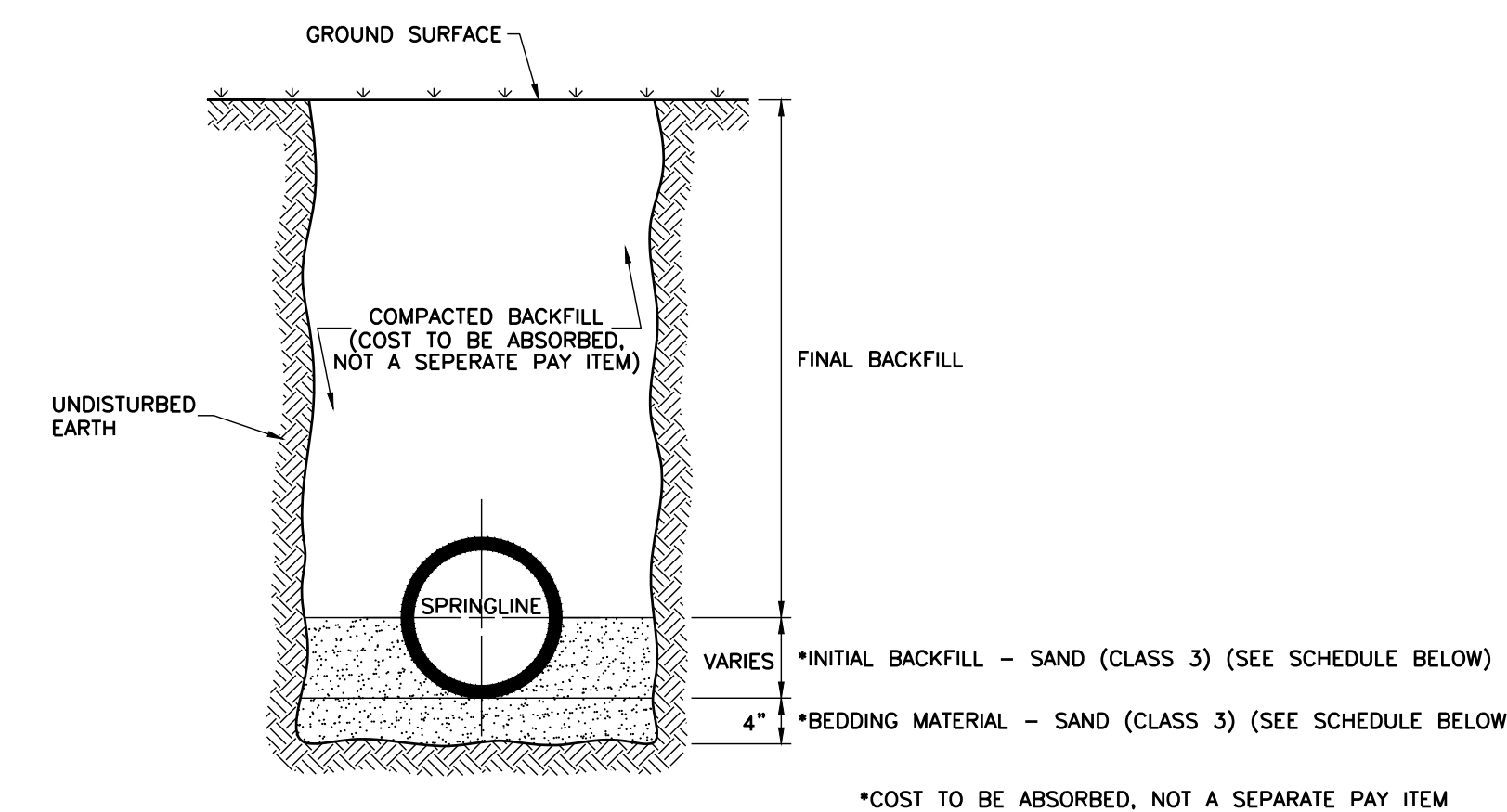


TYPICAL TRENCH CROSS-SECTION FOR CONCRETE STORM SEWER

- NOTES:**
1. ALL CONCRETE STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC BEFORE BACKFILLING. COST TO BE ABSORBED, NOT A SEPARATE PAY ITEM.
 2. ALL COST FOR EXCAVATION, HAUL-OFF, IMPORT AND BACKFILL SHALL BE ABSORBED BY THE CONTRACTOR.
 3. ALL LIFT HOLES TO BE PLUGGED AND SEALED WITH POPIT PLUGS.

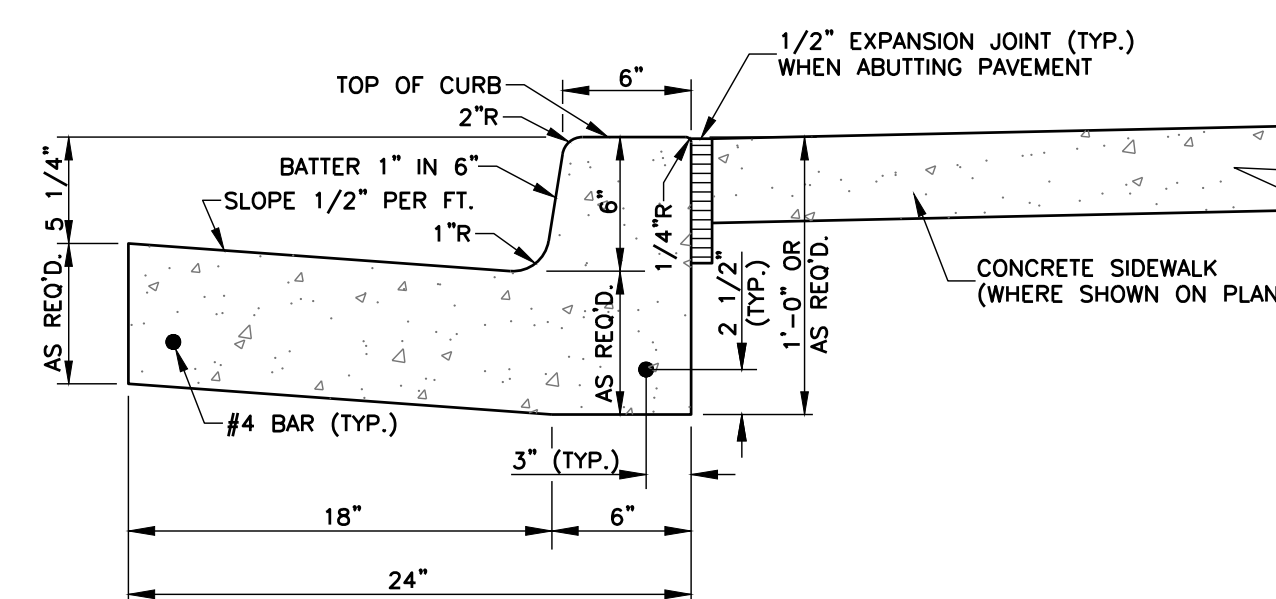


STORM SEWER MANHOLE
N.T.S.

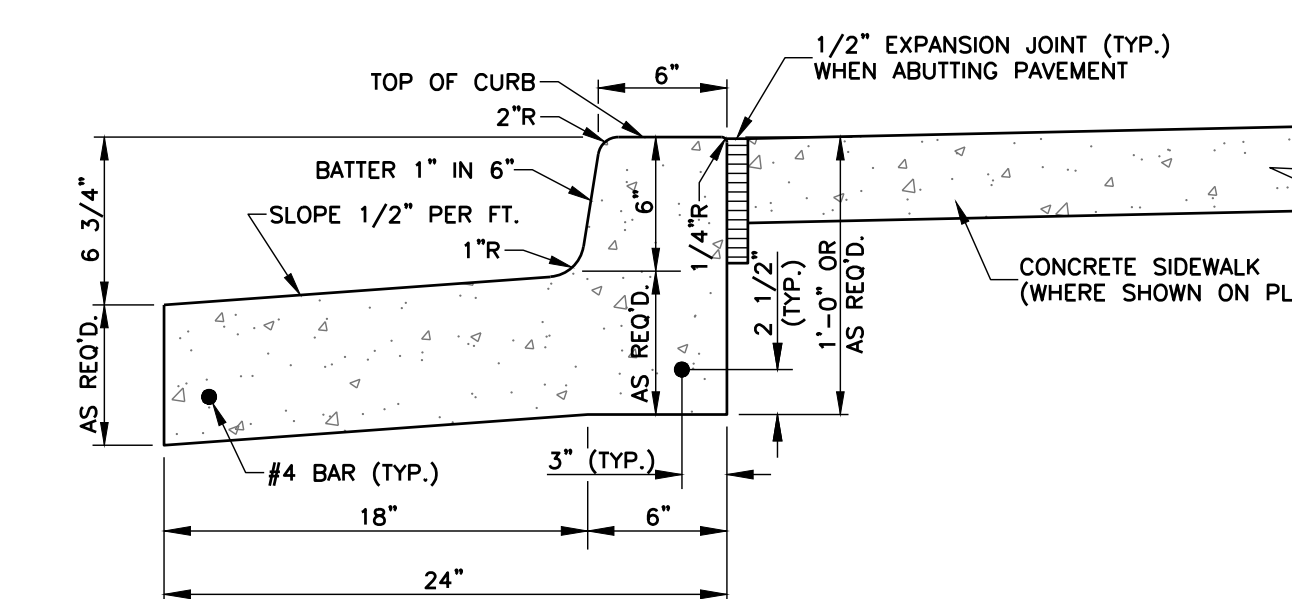


TYPICAL TRENCH CROSS-SECTION FOR HIGH-PERFORMANCE POLYPROPYLENE PIPE (H.P. PIPE) AND P.V.C. PIPE

CLASS	3
PERCENT PASSING NO. 200 SIEVE (MAX.)	10
FRACTION PASSING NO. 40 SIEVE - LIQUID LIMIT (MAX.)	--
PLASTICITY INDEX (MAX.)	np



NORMAL GUTTER



PITCHED GUTTER

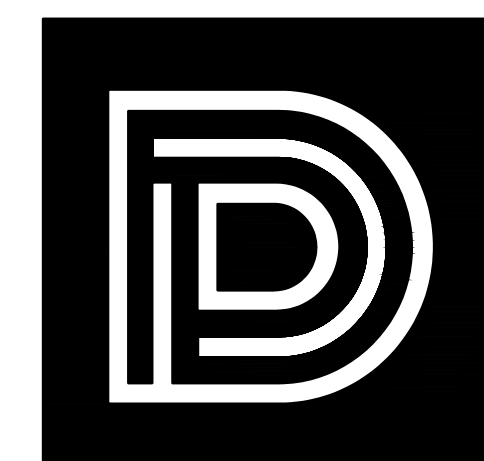
CONCRETE CURB AND GUTTER DETAIL
N.T.S.

- NOTES:**
1. CONCRETE SHALL BE 4,000 P.S.I. MINIMUM.
 2. PROVIDE CONTRACTION JOINTS AT 10'-0" O.C. AND EXPANSION JOINTS AT 40'-0" O.C.
 3. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1" OF DEPTH AND A MAXIMUM OF 1/4 DEPTH OF THE PAVEMENT. EDGES SHALL BE TOoled TO A 1/4" RADIUS.
 4. EXPANSION JOINTS SHALL BE 1/2" IN WIDTH AND FILLED WITH PREMOULDED EXPANSION JOINT FILLER TO WITHIN 1/2" OF THE SURFACE. EDGES SHALL BE TOoled TO A 1/4" RADIUS AND SEALED FLUSH WITH AN APPROVED SEALANT.
 5. CONTRACTOR TO FIELD VERIFY TYPE OF GUTTER PITCH USED.



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212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090



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661 Sunnybrook, Ste 140
Ridgeland, MS 39157
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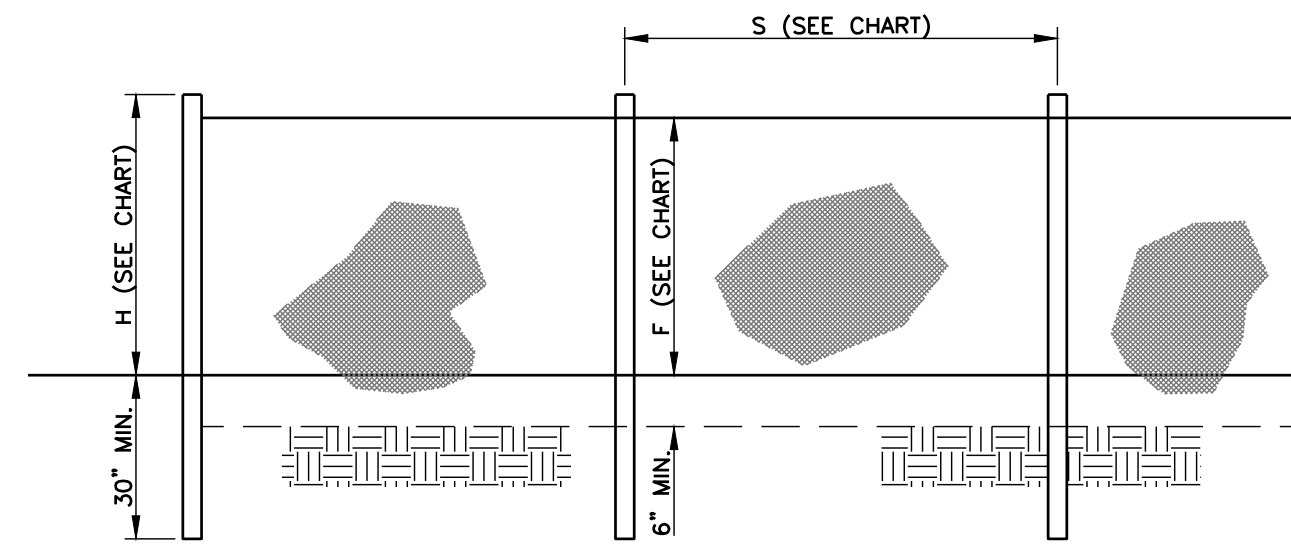
HEALTH SCIENCES COMPLEX -
SITE IMPROVEMENTS PACKAGE
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI (HCC BID #3282)

Sheet Number:

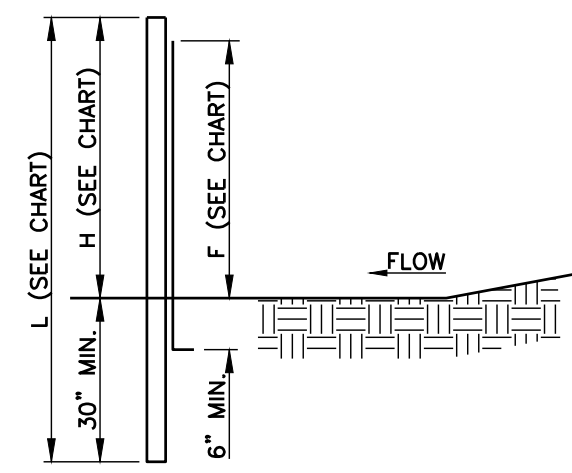
C6.1

MISCELLANEOUS
DETAILS

DATE PLOTTED: 10/11/2023 10:11:00 AM



ELEVATION



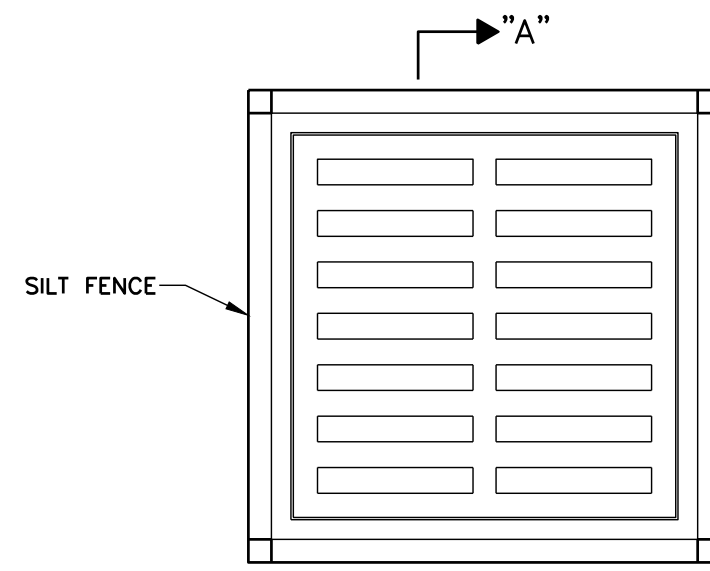
SECTION

	POST SIZE, MATERIAL AND SPACING CHART	
	WITHOUT BACKING	WITH BACKING
MIN. LENGTH=L	30'	30'
MIN. HEIGHT=H	2'-0"	2'-4"
MAX. SPACING=S	6'-0"	6'-0"
MIN. FABRIC WIDTH	30"	30"
MATERIAL	1.25 LB/YD STEEL	1.25 LB/YD STEEL
	WITHOUT BACKING	
TENSILE STRENGTH (LBS. MIN. (K))	WARP 120	FILL 100
ASTM D 4632		
PERMEATION (IN. MAX.)	20	---
ASTM D 4632		
APPROX. PERCENT OPENING (SIZE)	400	400
MAX. SIEVE SIZE (ASTM D 4753)	4	10
ADVERSE SLOPE (MIN. TO 1 FT)	70	90
ADVERSE SLOPE (MAX.)	70	90
STABILITY AFTER 800 HOURS	70	90
STABILITY BY ACCUMULATED WEIGHT (LBS. PER SQ. FT.)	200	400
ASTM D 5340 (PHASE I)		
MIN. FABRIC WIDTH	30"	30"
INCHES ± 1/4"		
	WITH BACKING	
TENSILE STRENGTH (LBS. MIN. (K))	WARP 120	FILL 100
ASTM D 4632		
PERMEATION (IN. MAX.)	20	---
ASTM D 4632		
APPROX. PERCENT OPENING (SIZE)	400	400
MAX. SIEVE SIZE (ASTM D 4753)	4	10
ADVERSE SLOPE (MIN. TO 1 FT)	70	90
ADVERSE SLOPE (MAX.)	70	90
STABILITY AFTER 800 HOURS	70	90
STABILITY BY ACCUMULATED WEIGHT (LBS. PER SQ. FT.)	200	400
ASTM D 5340 (PHASE I)		
MIN. FABRIC WIDTH	30"	30"
INCHES ± 1/4"		
	TENSILE STRENGTH (LBS. MIN. (K))	
	WARP 120 FILL 100	
	PERCENT OF REQUIRED INITIAL TENSILE STRENGTH	

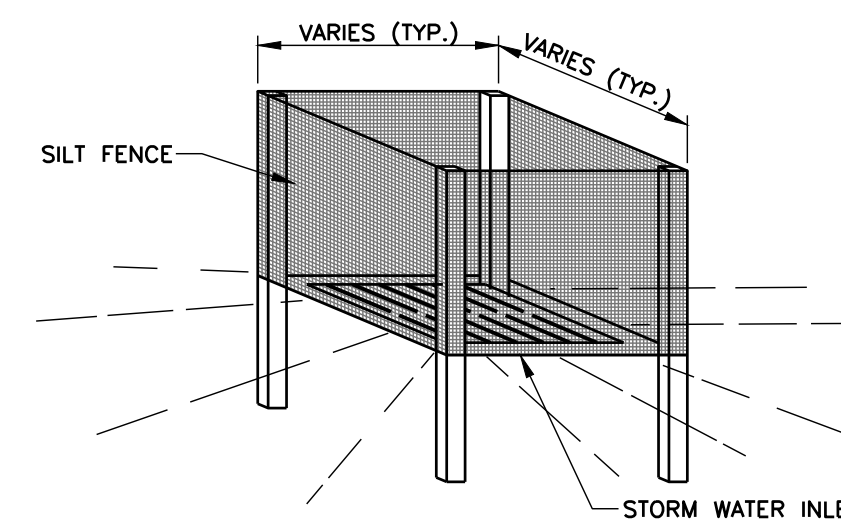
NOTES:

- 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".

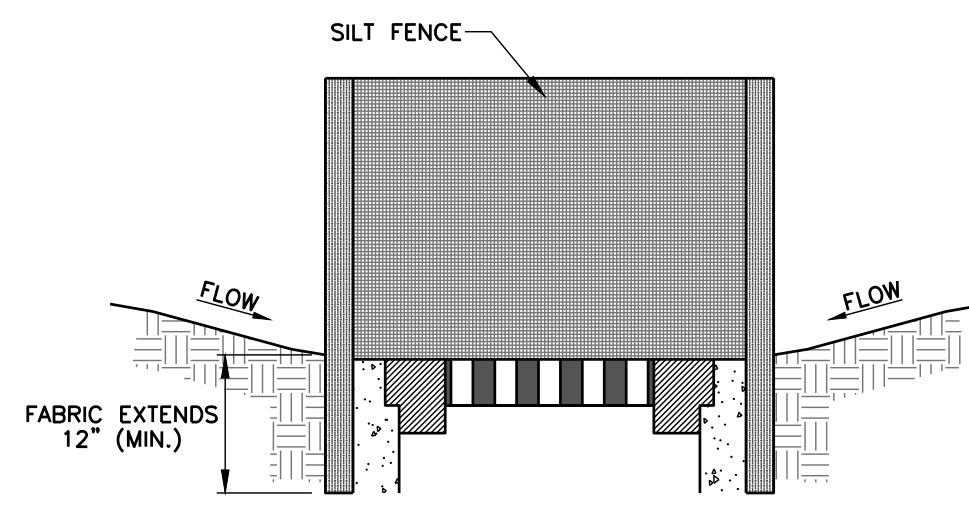
SILT FENCE INSTALLATION DETAILS
N.T.S.



PLAN VIEW

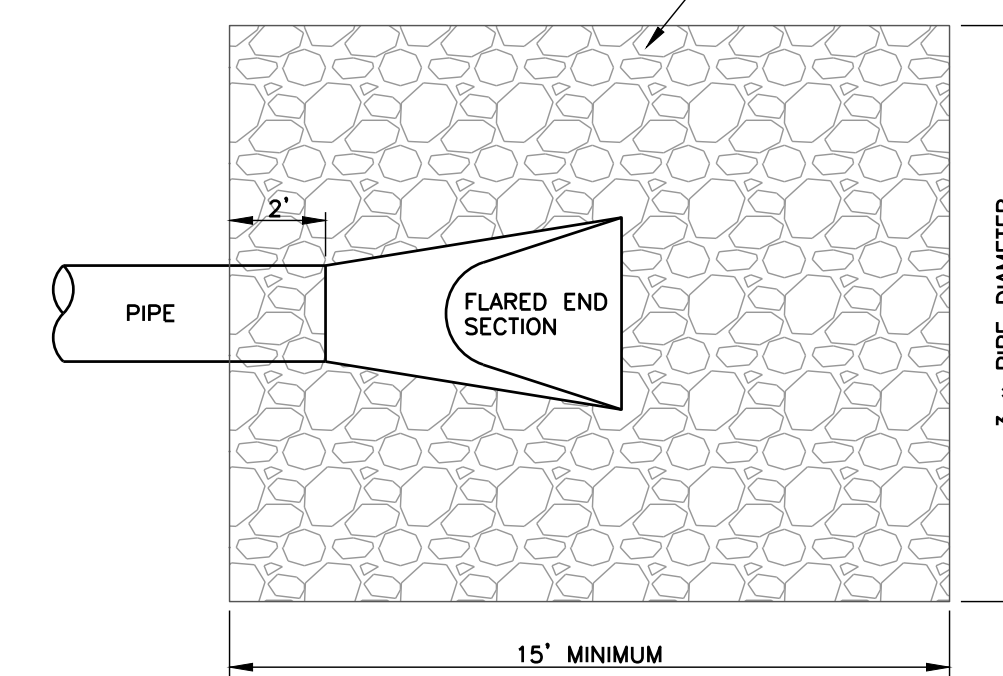


ISOMETRIC VIEW

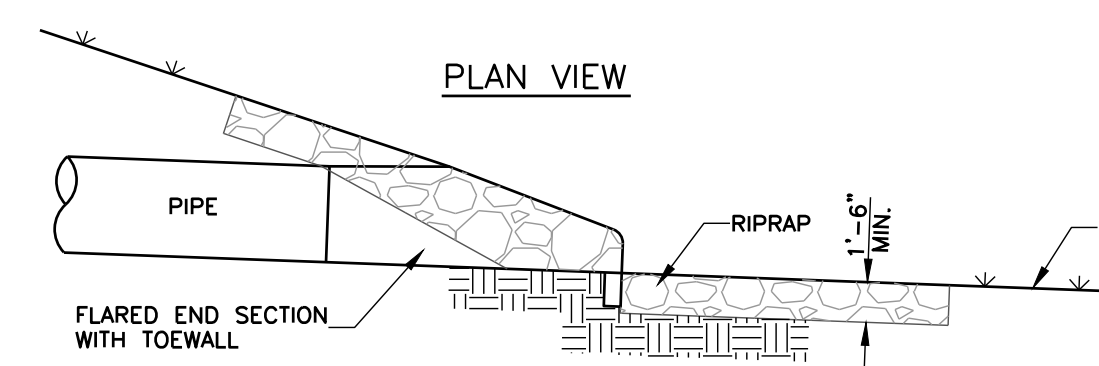


SECTION "A-A"

SILT FENCE INLET PROTECTION DETAILS
N.T.S.

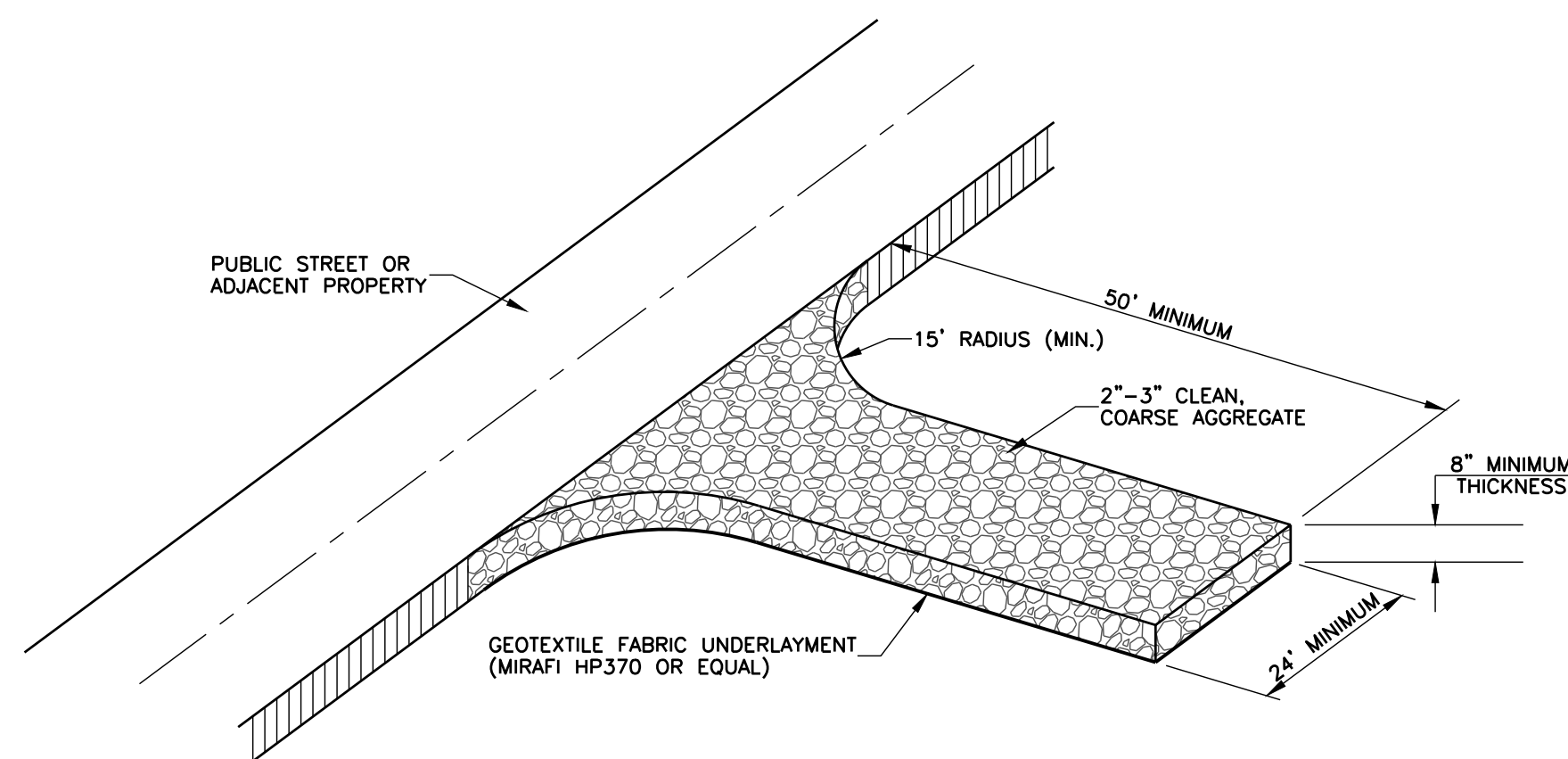


PLAN VIEW



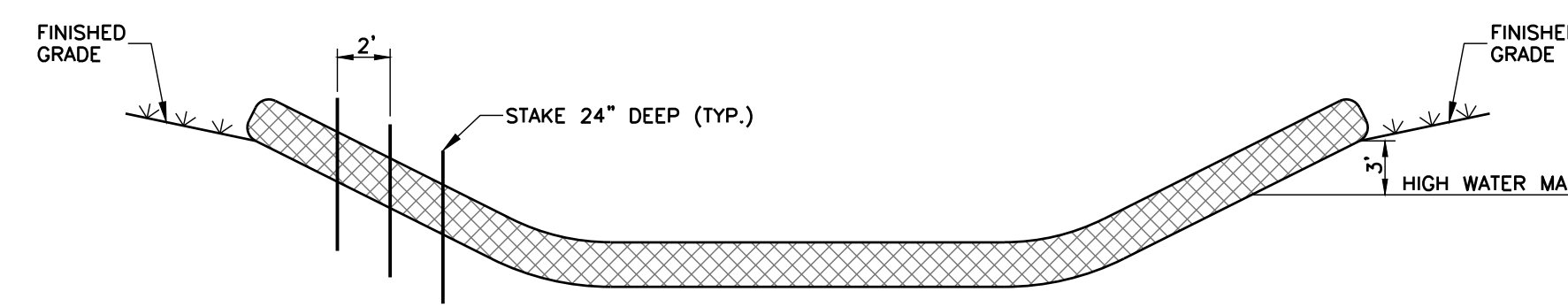
SECTION

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



ISOMETRIC VIEW

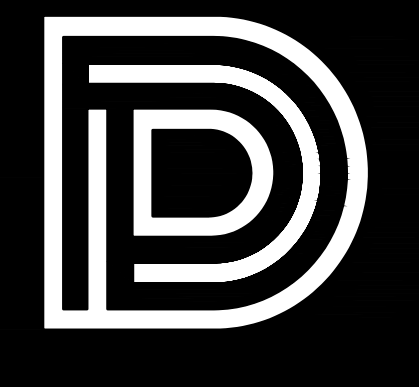
CONSTRUCTION ENTRANCE DETAIL
N.T.S.



WATTLE INSTALLATION CRITERIA:

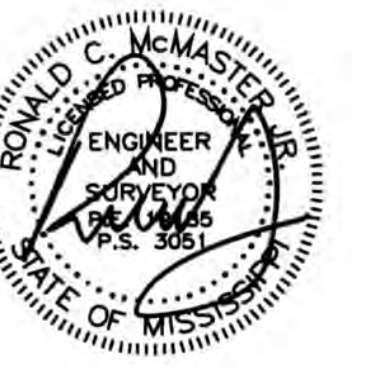
- MAY BE INSTALLED FLAT ON THE GROUND OR ENTRENCHED.
- MAY BE INSTALLED OVER BARE SOIL OR OVER EROSION CONTROL BLANKETS AND ON STEEP SLOPES.
- SHOULD REMAIN IN PLACE UNTIL VEGETATION IS FULLY ESTABLISHED AND CAN SURVIVE ON ITS OWN.
- TYPICALLY SECURED TO THE SUBGRADE SOIL USING A 1-INCH BY 1-INCH WOOD 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.



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(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI (HCC BID #3282)

Sheet Number:

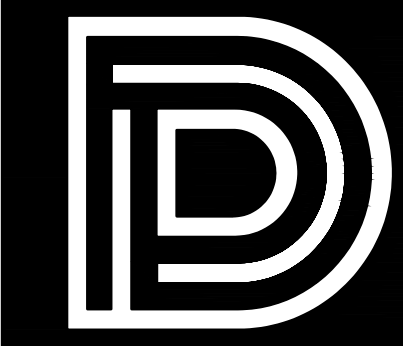
C6.2

MISCELLANEOUS
DETAILS



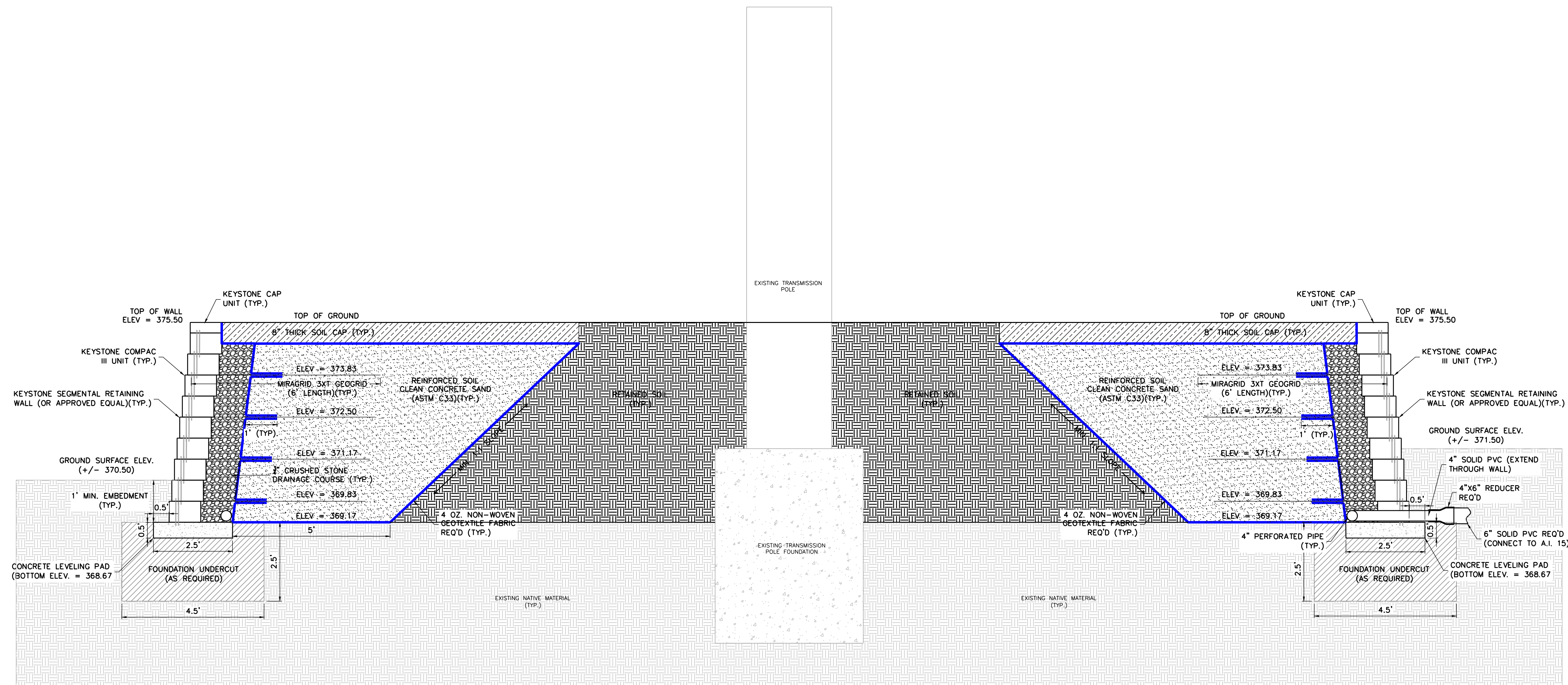
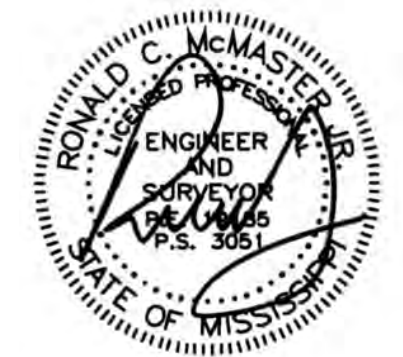
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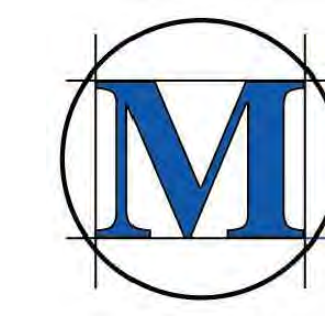
TYPICAL SECTION
SCALE: 1" = 2'

- NOTES:**
1. WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 2. REINFORCED SOIL SHALL BE CLEAN CONCRETE SAND MEETING REQUIREMENTS OF ASTM C33.
 3. REINFORCED SOIL (CLEAN CONCRETE SAND) SHALL BE INSTALLED IN MAX 12" LOOSE LIFTS. EACH LIFT SHALL BE VIBRATED WITH MECHANICAL TAMP PLATE TO CONSOLIDATE MATERIAL. CONTRACTOR SHALL MAKE AT LEAST THREE FULL PASSES WITH MECHANICAL TAMP PLATE PRIOR TO PLACEMENT OF SUBSEQUENT LIFT.
 4. RETAINED SOIL FOUNDATION UNDERCUT BACKFILL, AND 8" THICK SOIL CAP SHALL BE A LEAN CLAY (OR SUITABLE NATIVE EXCAVATION) WITH A PLASTICITY INDEX (PI) WITHIN THE RANGE OF 10 TO 24, A LIQUID LIMIT (LL) LESS THAN 45, AND NOT LESS THAN 70 PERCENT FINES PASSING THE NO. 200 SIEVE.
 5. RETAINED SOIL SHALL BE INSTALLED IN MAX 9" LOOSE LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY, STANDARD PROCTOR.
 6. IF WEATHERED YAZOO CLAY IS ENCOUNTERED DURING WALL EXCAVATION ACTIVITIES, CONTRACTOR SHALL UNDERCUT FOUNDATION AS INDICATED ON TYPICAL SECTION.
 7. CONTRACTOR SHALL INSTALL CRUSHED STONE LEVELING PAD ON PREPARED, LEVEL, & COMPACTED FOUNDATION MATERIALS.
 8. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM BACK OF WALL AND SURROUNDING WALL AREAS.
 9. BLOCK FACE SHALL BE STRAIGHT-SPLIT (MATCH COLOR TO EXISTING TRANSMISSION TOWER RETAINING WALLS).
 10. SEE DETAILS FOR GEOGRID AND DRAINAGE STONE REQUIREMENTS AT CURVES AND CORNERS.

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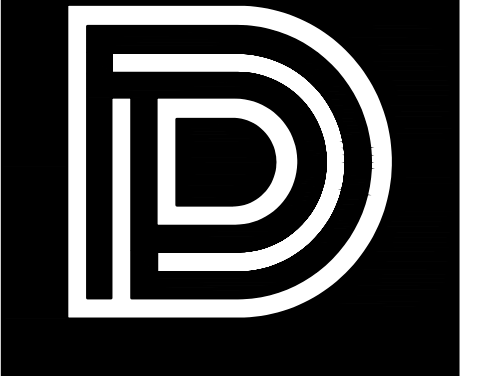
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Sheet Number:
C6.3
RETAINING WALL
DETAILS



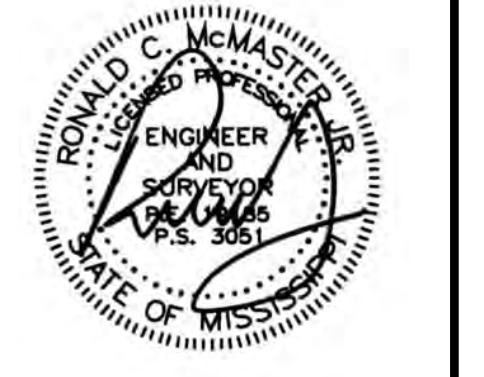
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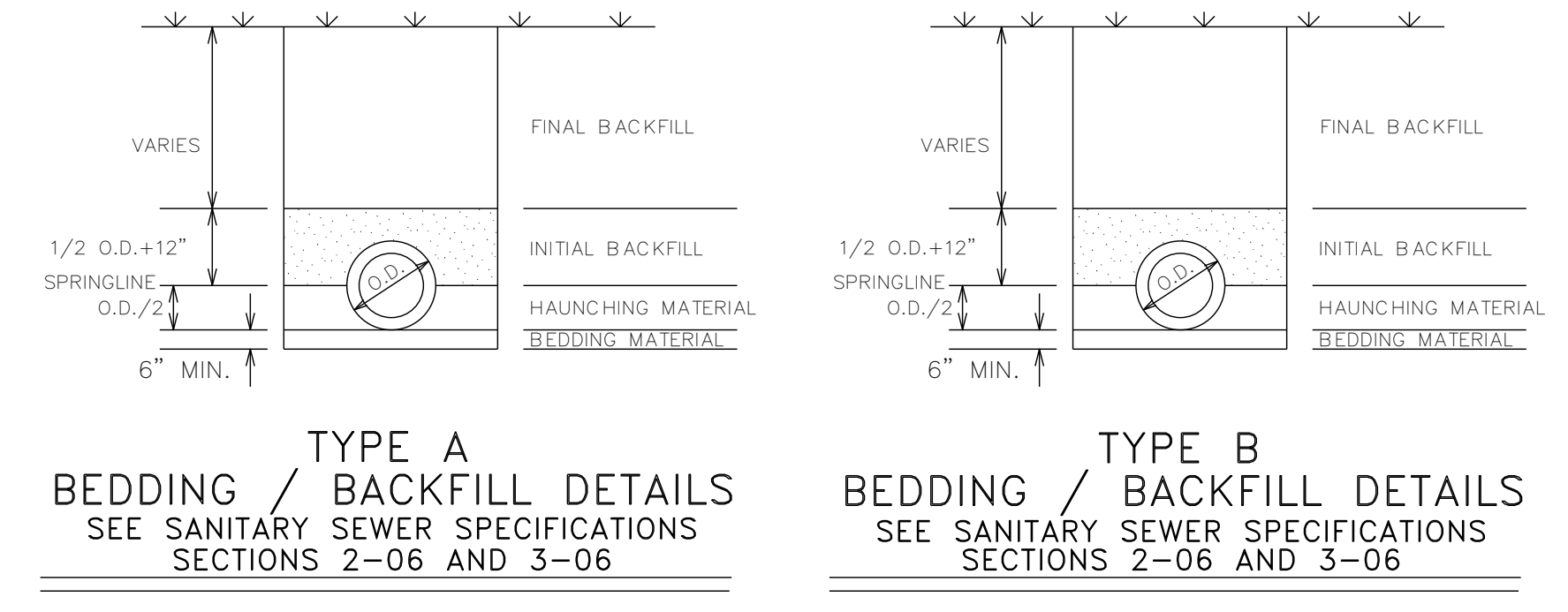
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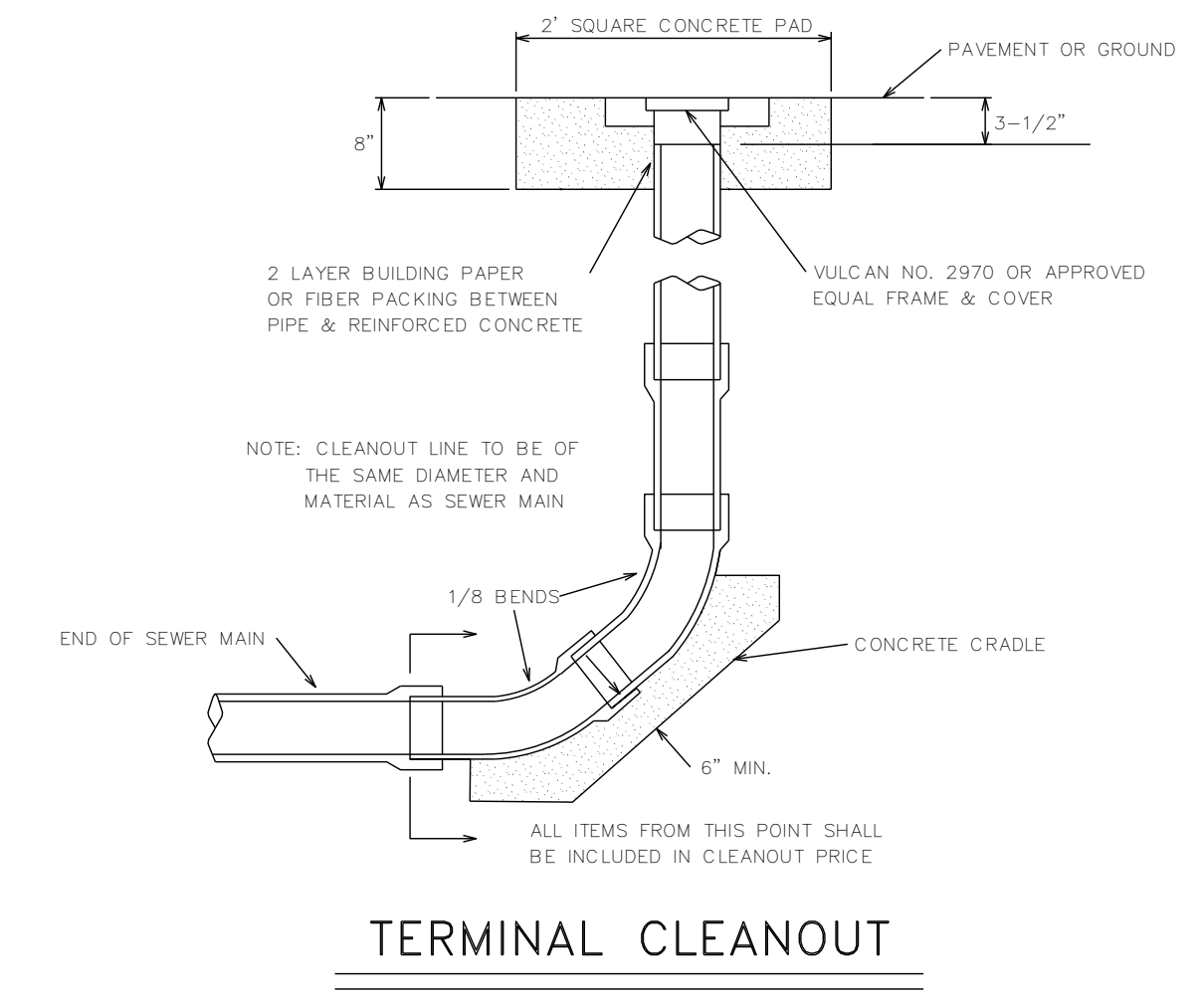
HEALTH SCIENCES COMPLEX -
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Sheet Number:
C6.4
SEWER DETAILS

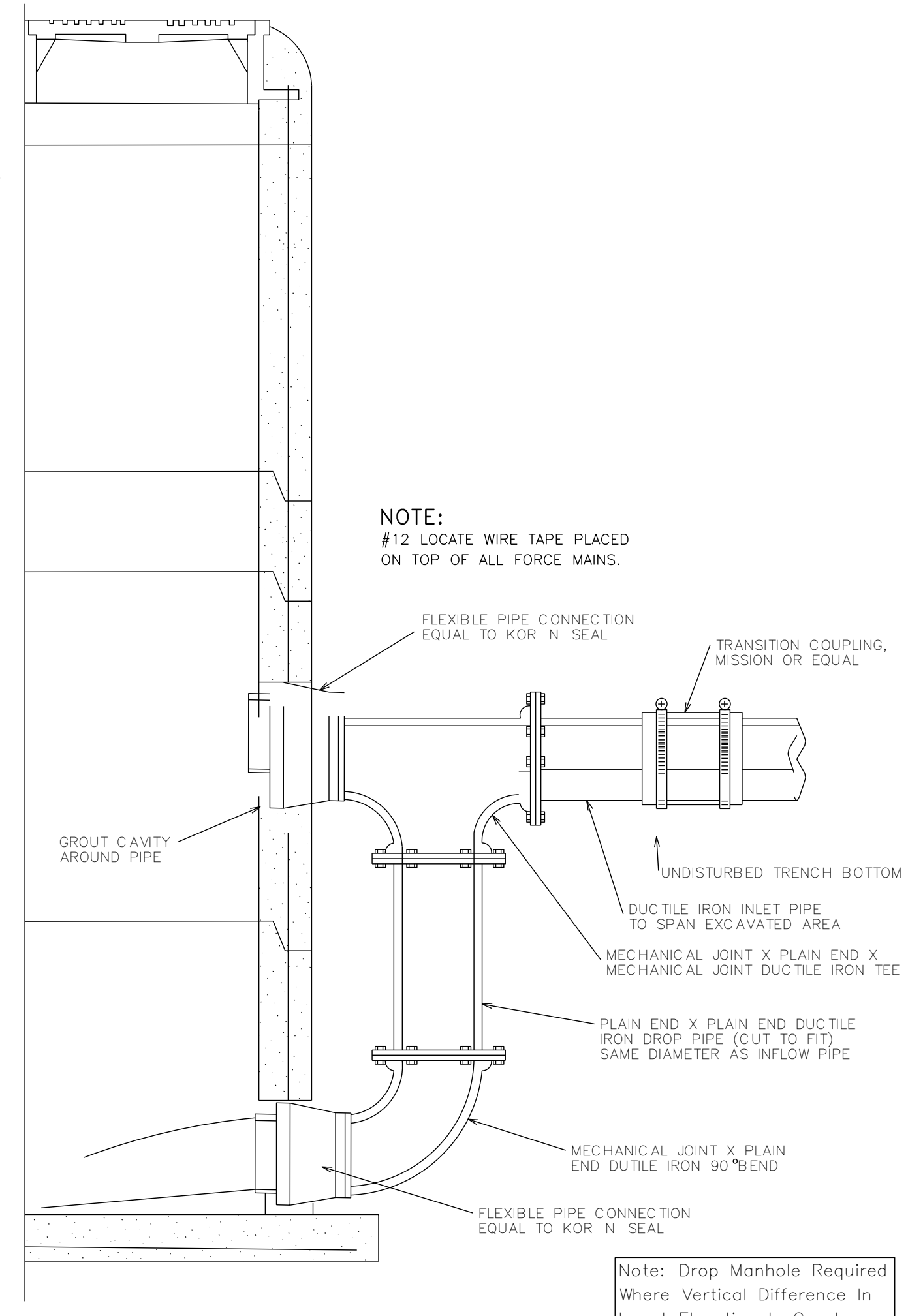


TYPE A
BEDDING / BACKFILL DETAILS
SEE SANITARY SEWER SPECIFICATIONS
SECTIONS 2-06 AND 3-06

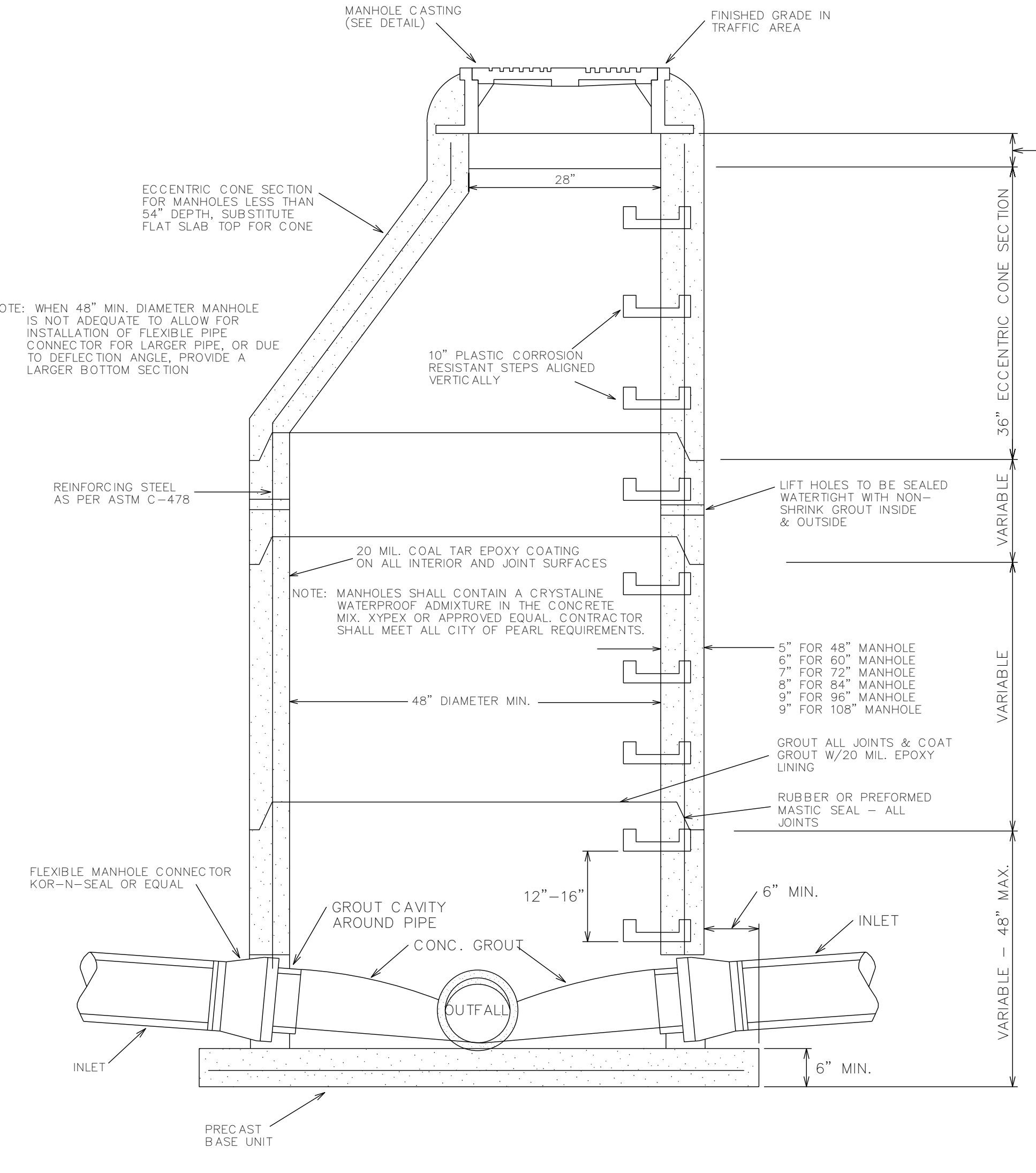
TYPE B
BEDDING / BACKFILL DETAILS
SEE SANITARY SEWER SPECIFICATIONS
SECTIONS 2-06 AND 3-06



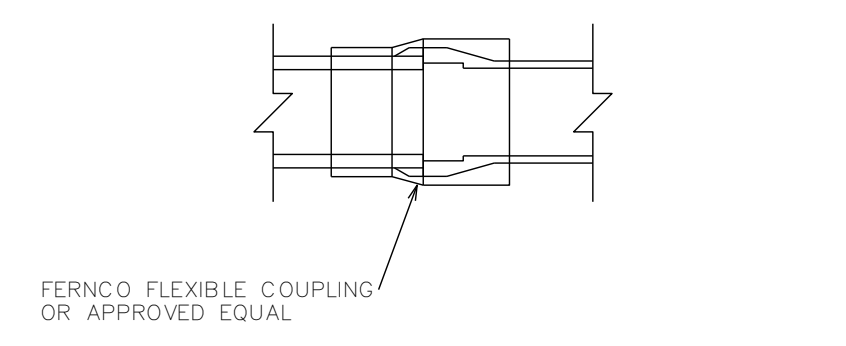
TERMINAL CLEANOUT



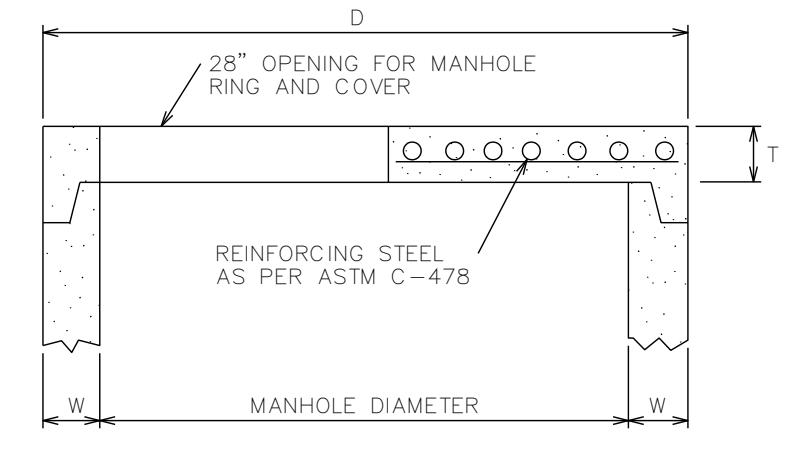
SECTION PRECAST CONCRETE MANHOLE WITH DROP CONNECTION
(NOTE : INTERIOR STYLE DROP MANHOLE WILL BE ALLOWED)



SECTION PRECAST CONCRETE MANHOLE



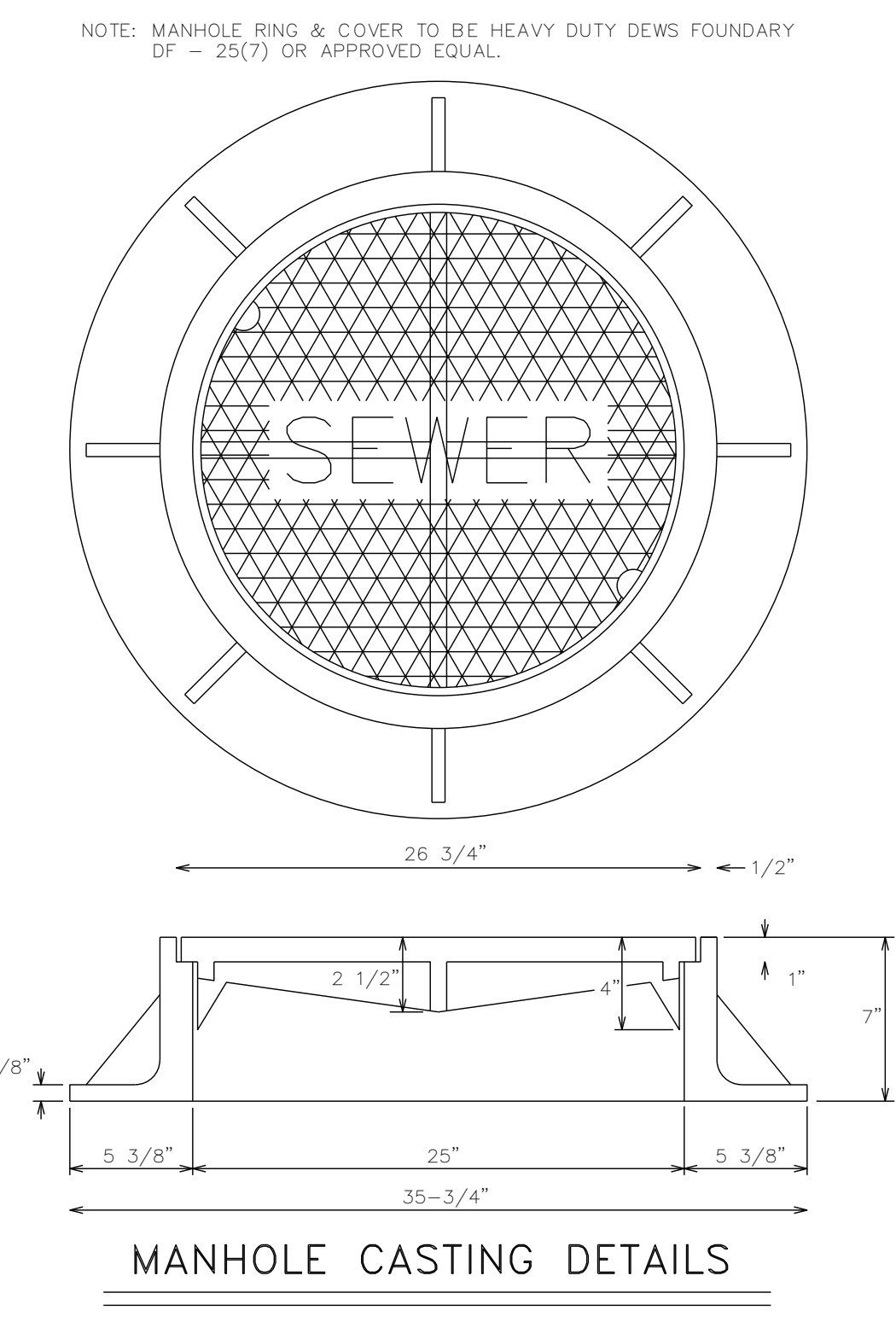
JOINTING DISSIMILAR PIPES



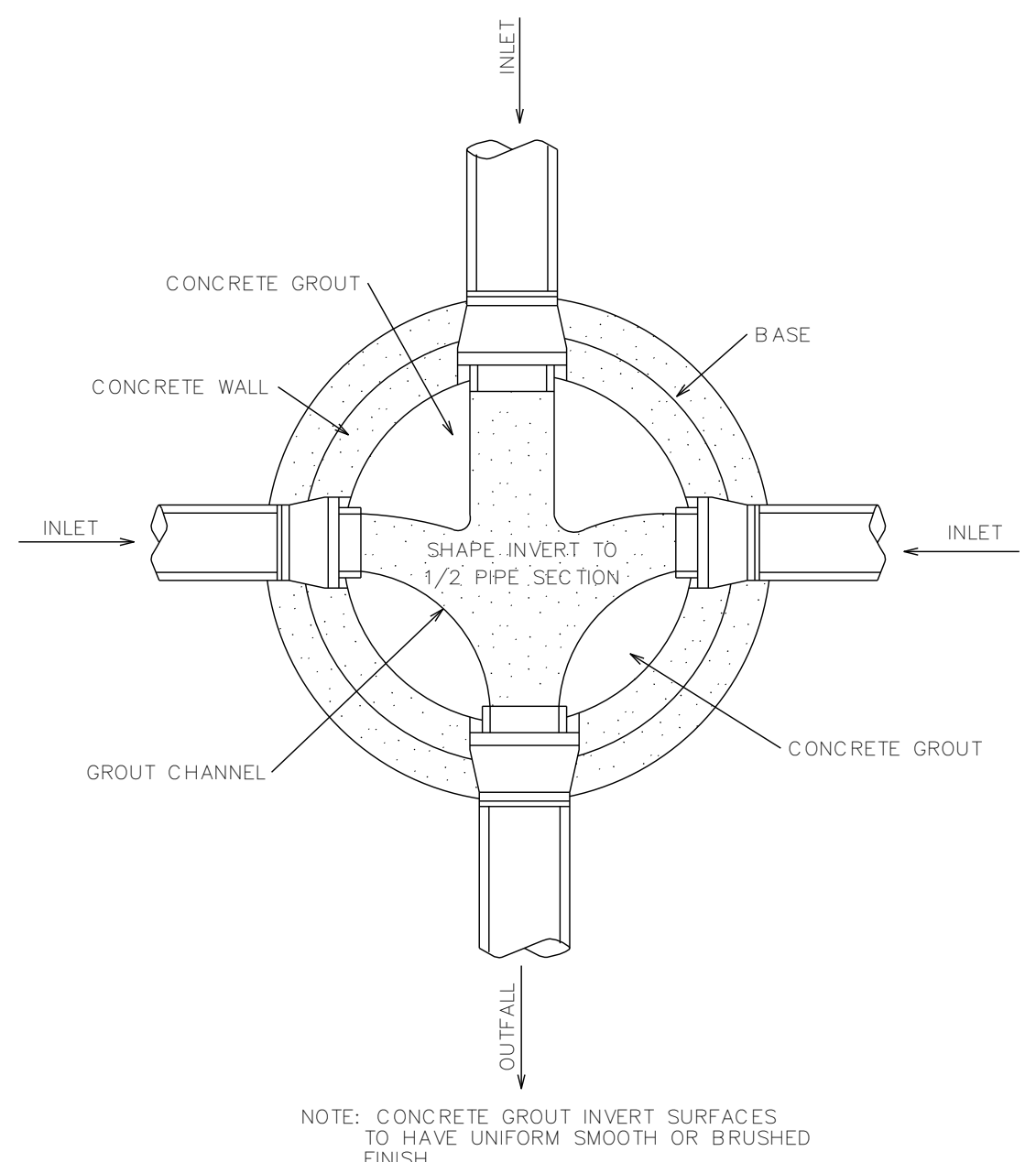
DIMENSION TABLE

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"

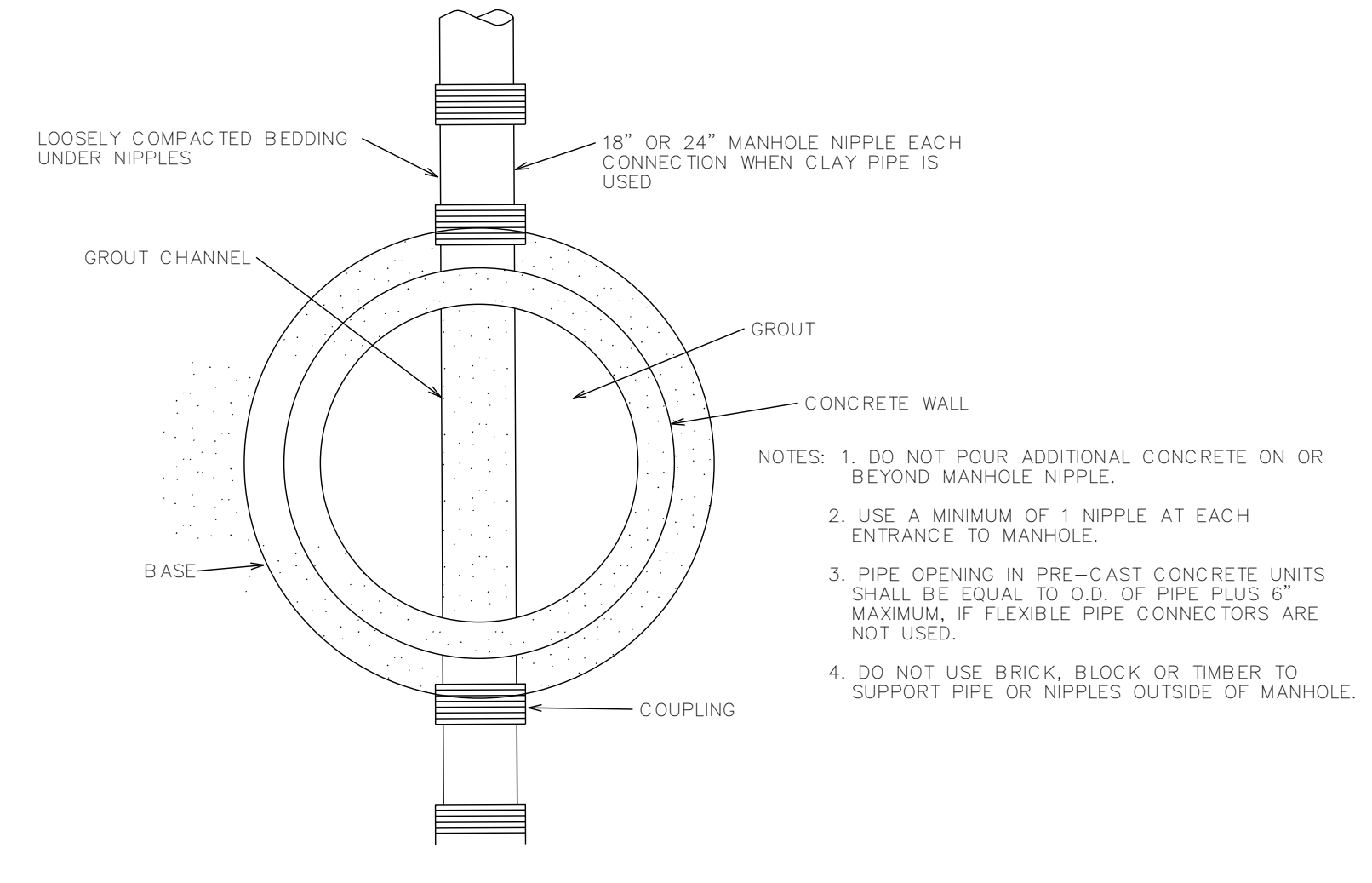
FLAT SLAB MANHOLE TOP



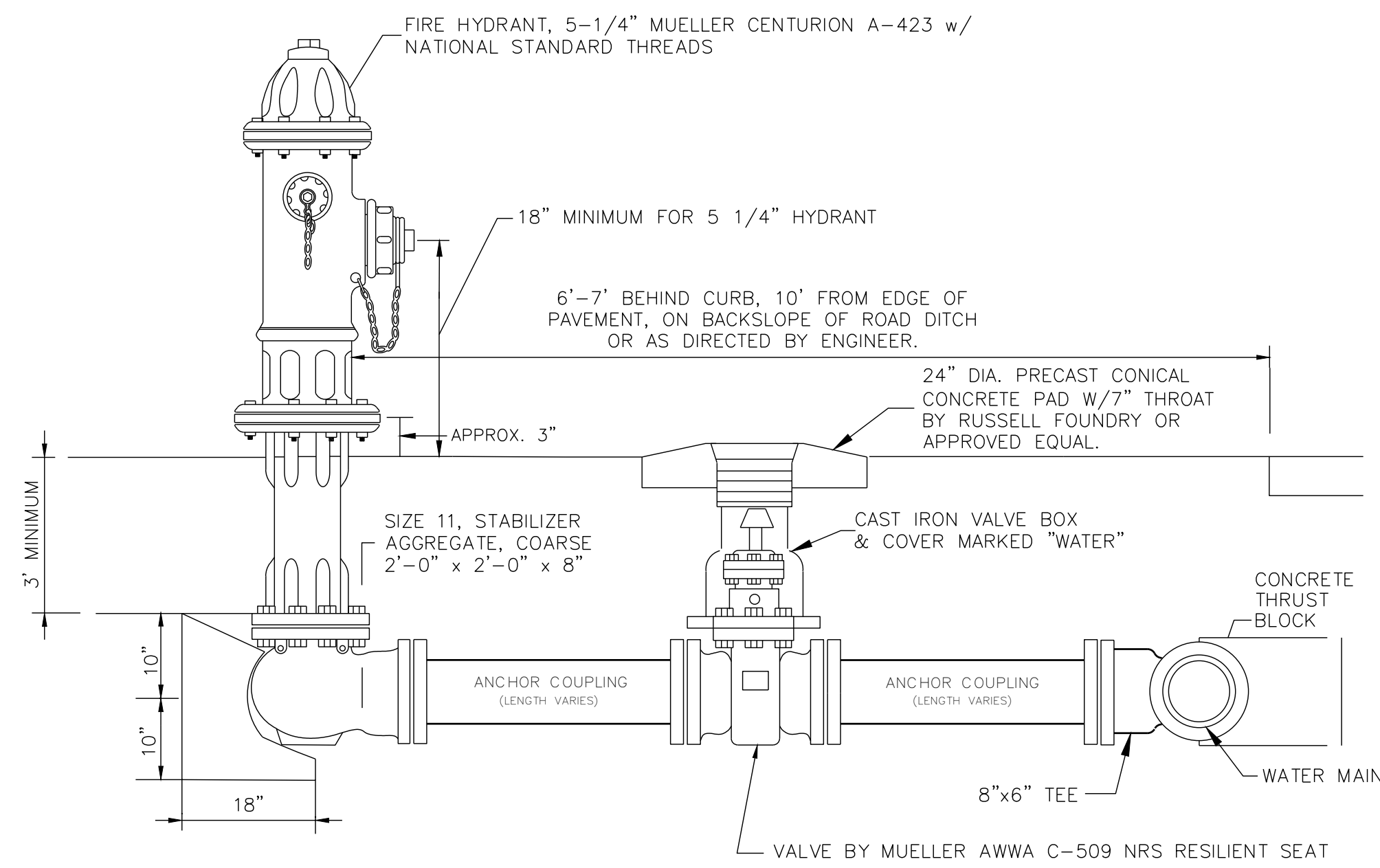
MANHOLE CASTING DETAILS



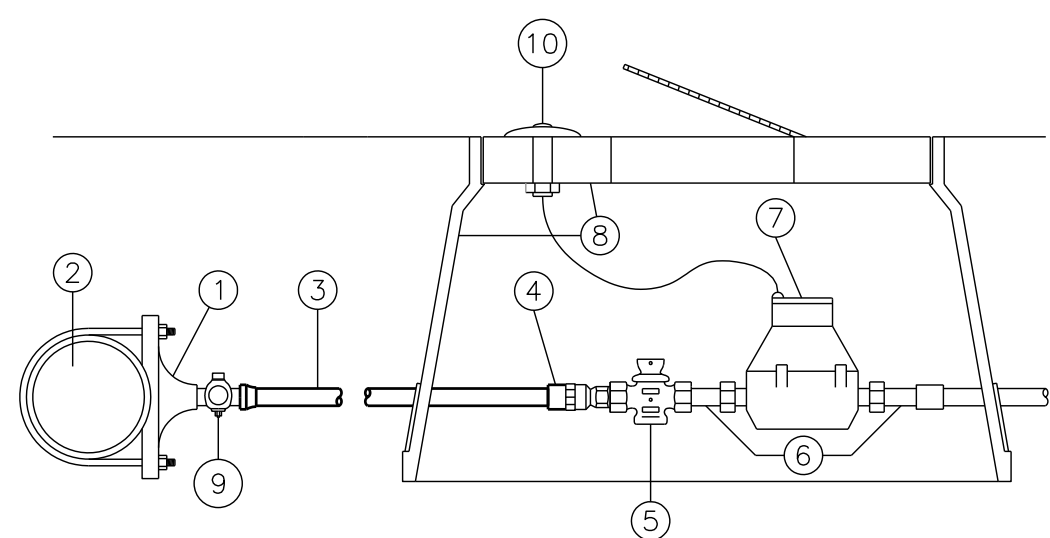
MANHOLE FLOW CHANNELS DETAIL



TYPICAL PIPE CONNECTION TO MANHOLE

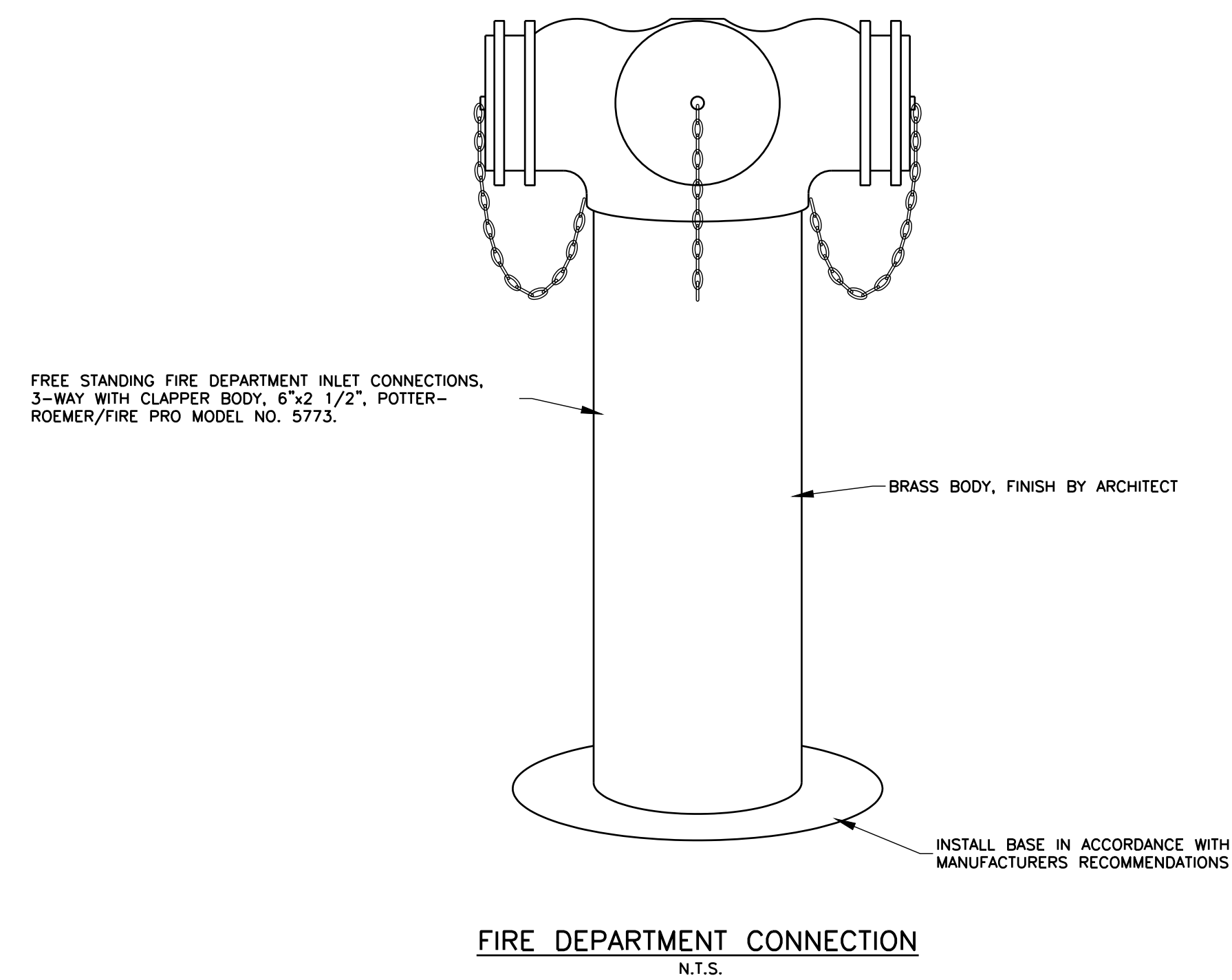


FIRE HYDRANT ASSEMBLY

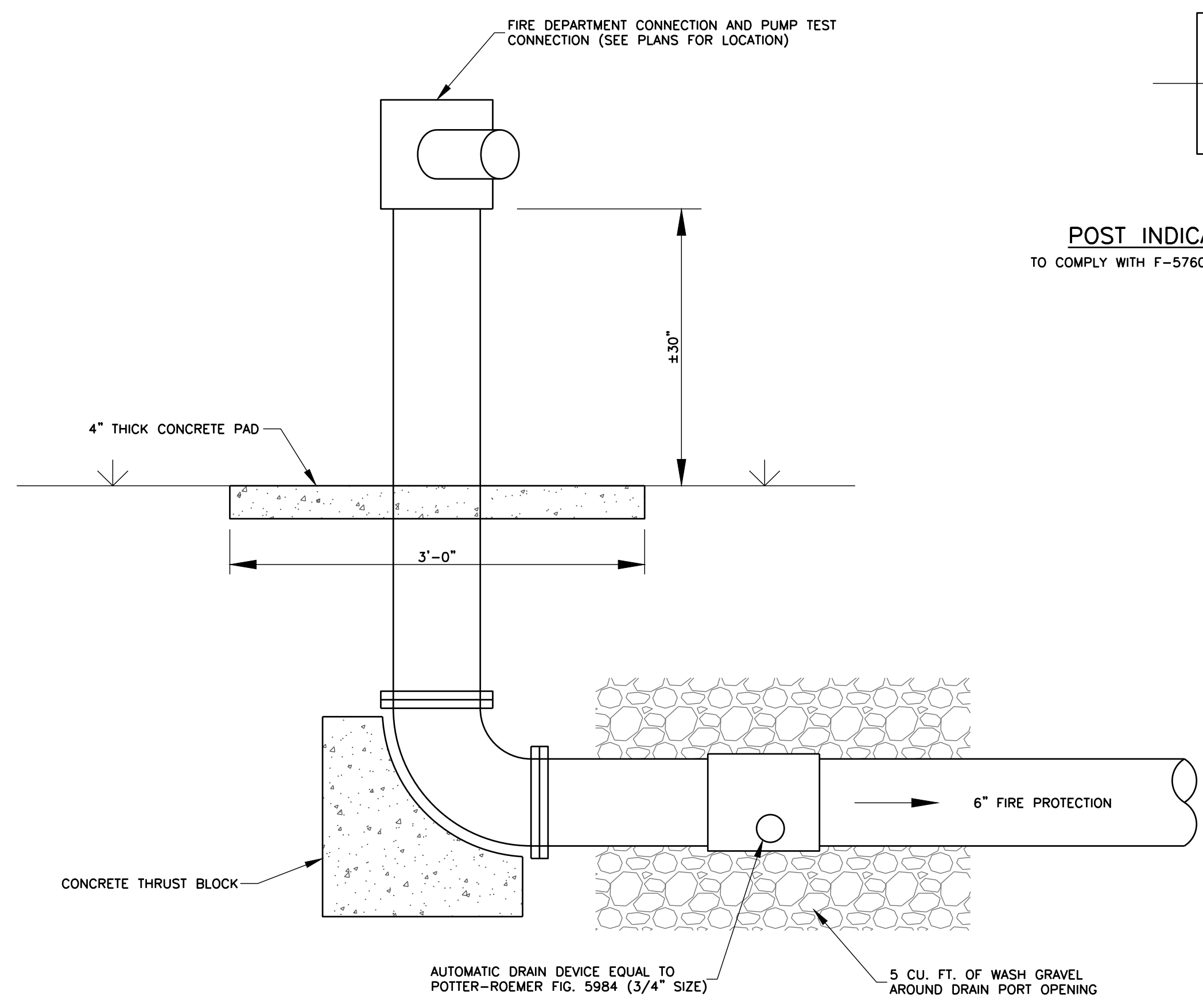


ITEM NO.	SIZE AND DESCRIPTION	MATERIAL SPECIFICATIONS
1	SERVICE CLAMP	MUELLER-DOUBLE ALLOY STRAP
2	P.V.C. MAIN	C-900 P.V.C., CLASS 150 MINIMUM
3	SERVICE LINE W/ SPECIFIED P.V.C. CASING UNDER ROADWAY	POLYETHYLENE CL-200
4	TRANSITION FITTING P.V.C.	MUELLER H-12211
5	CURB STOP	MUELLER BRASS w/ LOCK
6	METER COUPLINGS	MUELLER H-10891
7	WATER METER	SENSUS SR (TO BE APPROVED BY CITY)
8	STANDARD BLACK PLASTIC METER BOX WITH READER LID.	NDS 12" STD BOX W/ 2 HOLES (TOUCH READ)
9	CORPORATION STOP	MUELLER H-10012 (BRASS)
10	TOUCH READ DEVICE	SENSUS (TO BE APPROVED BY CITY)

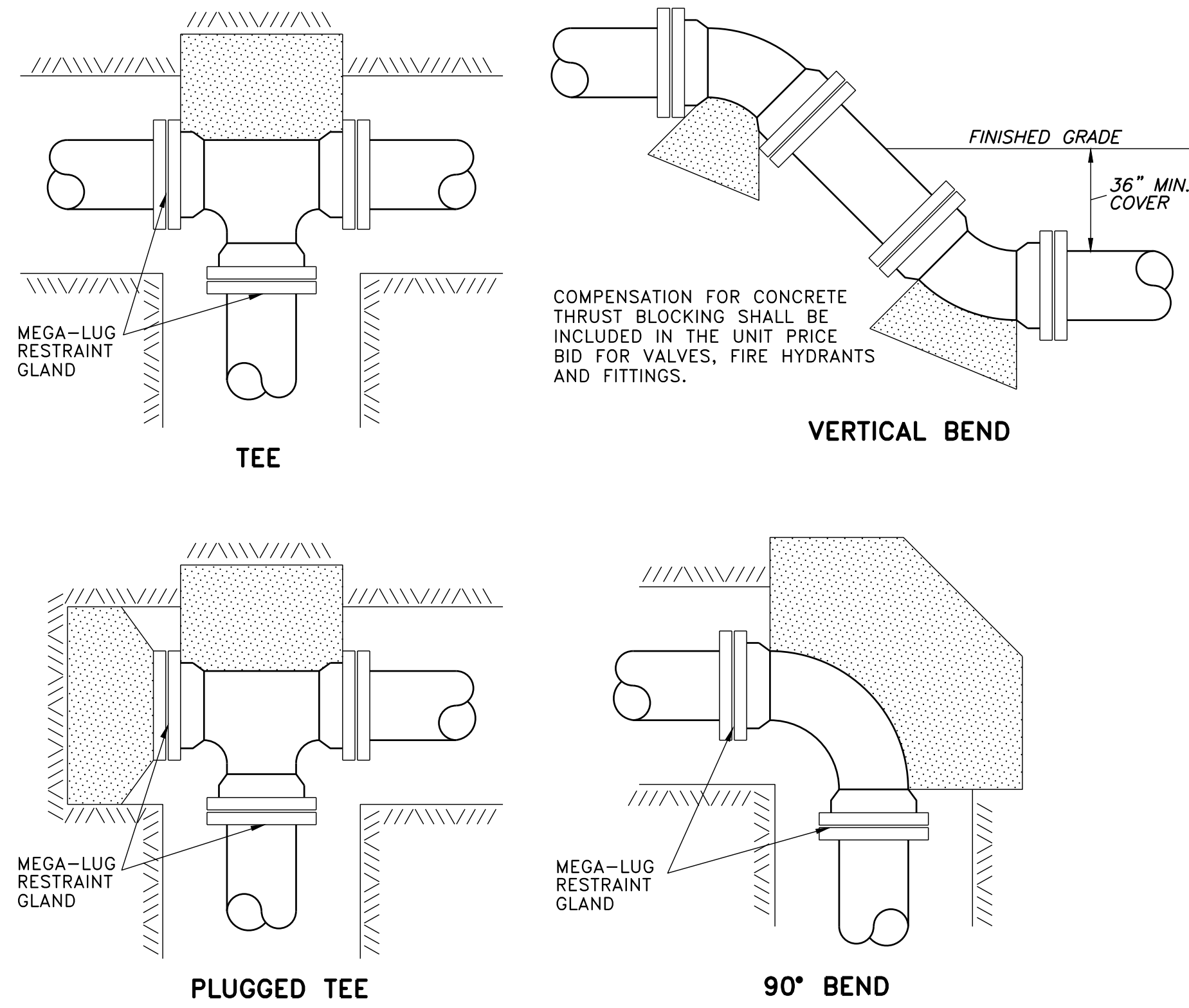
*SEE PLANS FOR MATERIAL SIZES
TYPICAL SERVICE ASSEMBLY
CONNECTING TO P.V.C. WATER MAIN
(TOUCH READ METER)



FIRE DEPARTMENT CONNECTION
N.T.S.



FIRE DEPARTMENT AND FIRE PUMP CONNECTIONS
N.T.S.



COMPENSATION FOR CONCRETE THRUST BLOCKING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VALVES, FIRE HYDRANTS AND FITTINGS.

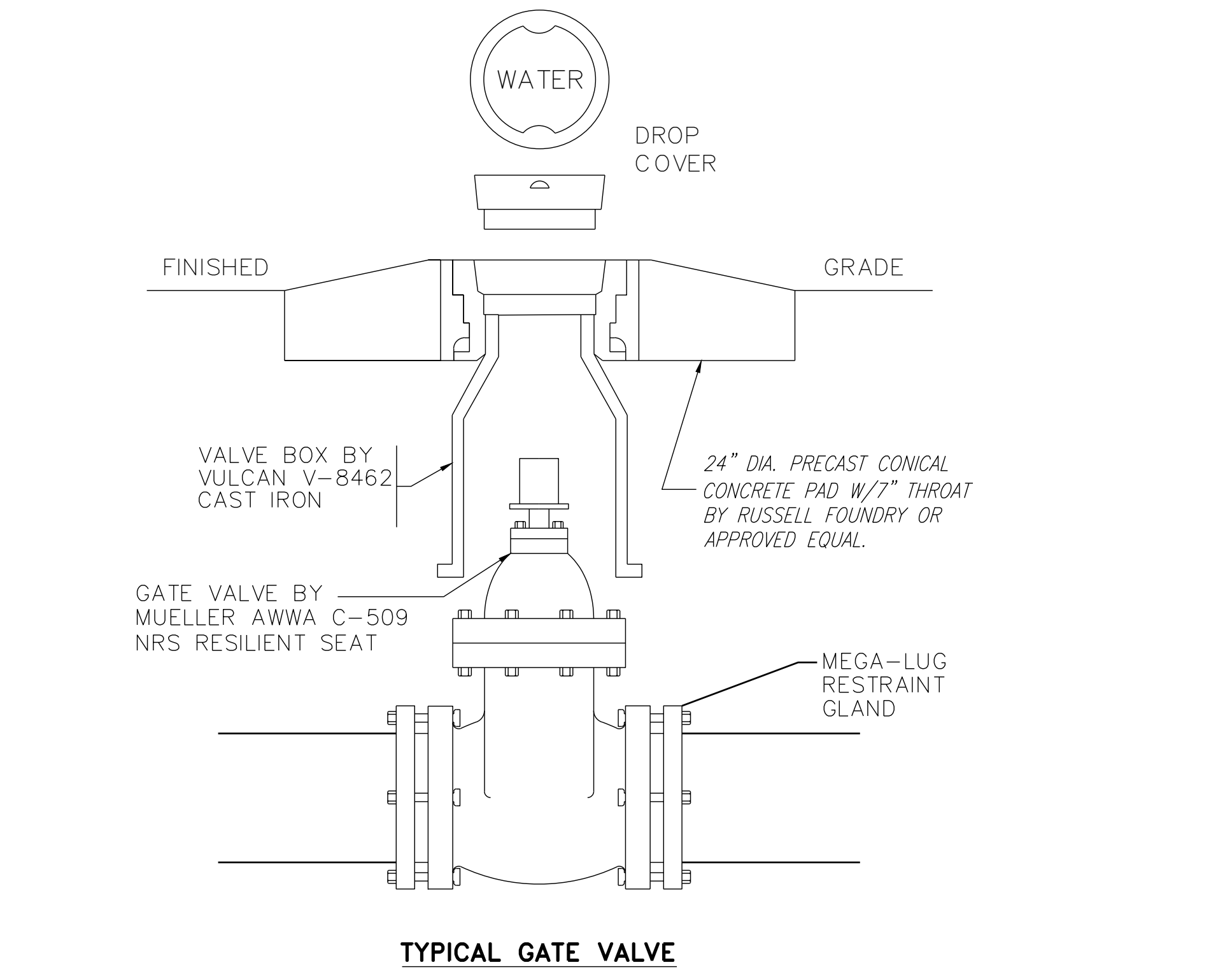
TYPICAL BLOCKING ON WATER MAIN
(3000 PSI CONCRETE REQUIRED)

BEARING AREA IN SQ. FT.

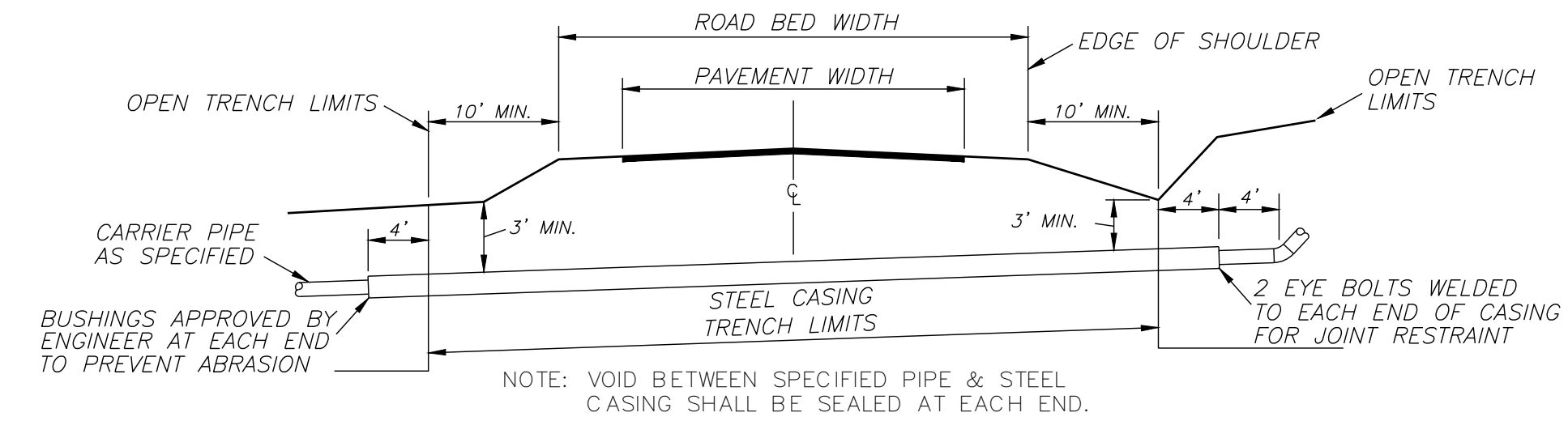
NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
12	5.0	5.0	4.0	3.0	3.0
16	8.0	12.0	6.0	4.0	4.0

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)

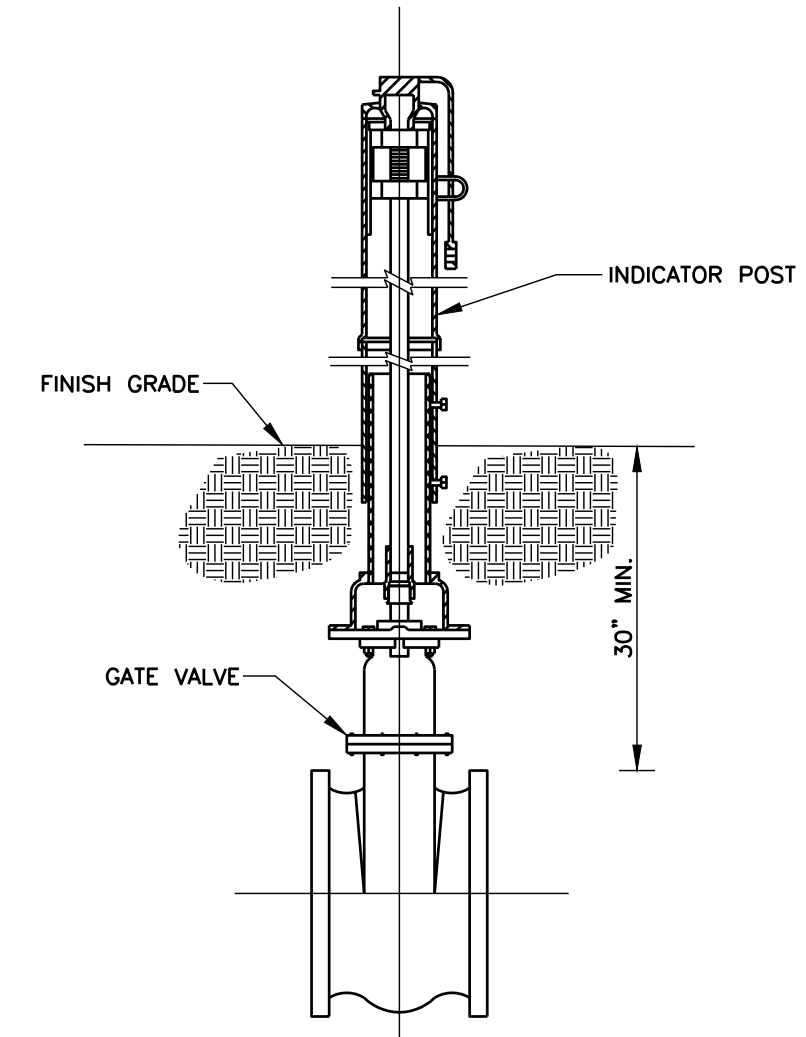
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)



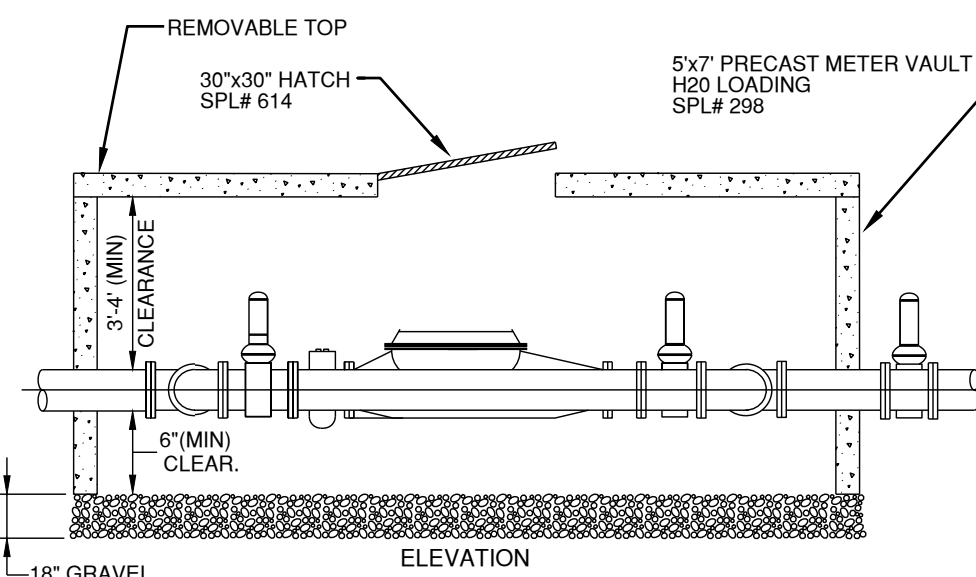
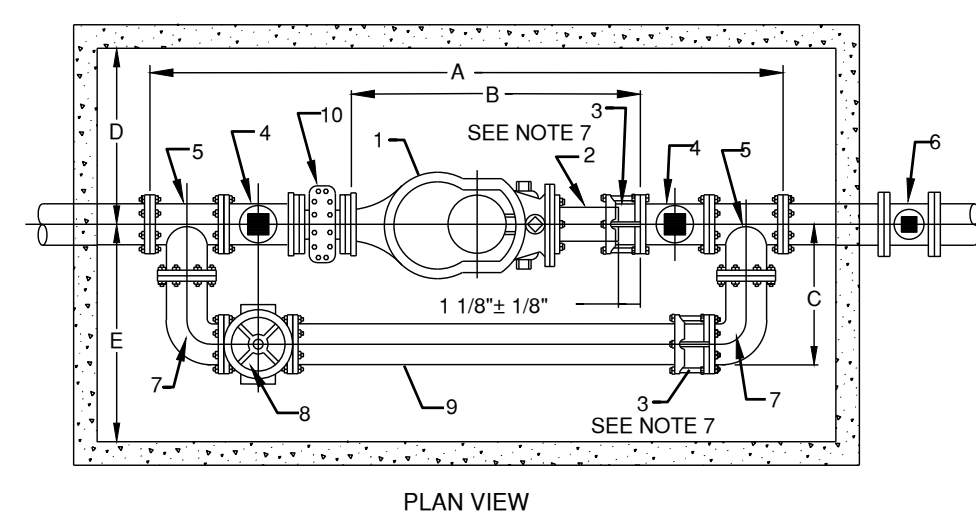
TYPICAL GATE VALVE



TYPICAL ROAD BORE



POST INDICATOR VALVE DETAIL
TO COMPLY WITH F-5760 AND/OR NFPA 13, OR LOCAL CODES

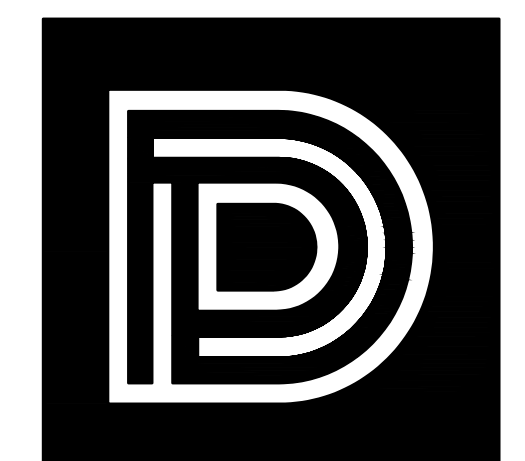


NO.	NAME	LENGTH
A	OVERALL LENGTH	79"
B	METER + NIPPLE + FCA	34 1/2"
C	CENTER OF MAINLINE TO OUTSIDE OF BYPASS	17 1/2"
D	CENTERLINE OF MAINLINE TO INSIDE OF VAULT	30"
E	CENTERLINE OF MAINLINE TO INSIDE OF VAULT	30"

WATER METER AND VAULT DETAILS
N.T.S.

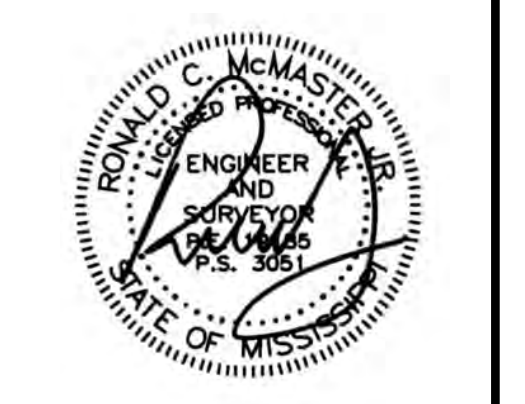
NO.	NAME	LENGTH
1	3" COMPOUND METER	21"
2	3" FLANGED + PLAIN END	12"
3	3" FLANGED COUPLING ADAPTER	5"
4	NBU 3" GATE VALVE SQUARE NUT	9"
5	3" x 3" x 3" FLANGED TEE	13"
6	PROPERTY OWNER'S 3" GATE VALVE SQUARE NUT	9"
7	3" FLANGED LONG RADIUS ELBOW 90°	9"
8	3" BYPASS GATE VALVE WITH HANDWHEEL TO BE LOCKED IN CLOSED POSITION BY NBU	9"
9	3" BYPASS DUCTILE IRON PIPE	7 1/2"
10	3" STRAINER	7 1/2"

- NOTES:**
- PIPE AND METER SIZE SHALL BE AS DETERMINED BY OWNER; APPROVAL BY NBU WATER SYSTEMS ENGINEERING. PLANS MUST BE PREPARED BY LICENSED ENGINEER IF INSTALLATION IN RIGHT-OF-WAY IS BY OTHER THAN NEW BRAUNFELS UTILITIES FORCES.
 - METER VAULT MUST BE BEHIND CURB AND/OR WALK AND OUT OF VEHICULAR TRAFFIC.
 - MAIN LINE AND BYPASS VALVES WILL BE RESILIENT SEAT TYPE WITH CORROSION RESISTANT FUSION BONDED EPOXY COATING INSIDE AND OUTSIDE. NON-RISING STEM. MAIN LINE VALVES SHALL HAVE SQUARE OPERATING NUTS; BYPASS VALVE WILL HAVE A HANDWHEEL. PROPERTY OWNER'S VALVE MUST BE LOCATED OUTSIDE OF THE NEW BRAUNFELS UTILITIES METER VAULT.
 - APPROVAL WILL BE NEEDED IF HEIGHT OF VAULT EXCEEDS 72"; CALL NEW BRAUNFELS UTILITIES.
 - HATCH OPENING WILL BE 30" x 30".
 - IRON PIPE TAPPING SLEEVE IN STREET RIGHT-OF-WAY SHALL BE IMBEDDED IN GRANULAR MATERIALS AS REQUIRED BY SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SPECIFICATIONS.
 - DOUBLE HARNESS MJ WITH THE ROOFS. ALL OTHER FITTINGS INSIDE VAULT WILL BE FLANGED.
 - CONTACT NEW BRAUNFELS UTILITIES PRIOR TO INSTALLATION OF COMPOUND METERS FOR PROPER DOMESTIC DEMANDS.
 - NOTCHES WHERE PIPING GOES THROUGH VAULT SHALL BE FILLED WITH MORTAR.
 - THE TOP OF THE METER VAULT SHALL BE AT AN ELEVATION SUCH THAT THE SURROUNDING GROUND SLOPES AWAY FROM THE VAULT.



DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE

661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com



Project No.: 23029
Date: SEPTEMBER 14, 2023
Drawn: DP
Checked: RCM
Revisions: Add. No. 1 - October 6, 2023

HEALTH SCIENCES COMPLEX -
SITE IMPROVEMENTS PACKAGE
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI (HCC BID #3282)

Sheet Number:
C6.5
WATER DETAILS



M-MASTER & ASSOCIATES, INC.
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090