

SECTION 00 91 13.2 – ADDENDUM 2

1.1 PROJECT INFORMATION

- A. Project Name: Lincoln Quad Demolition and Site Restoration.
- B. Owner: Indiana State University.
- C. Owner Project Number: B0027341.
- D. Architect: arcDESIGN, PC.
- E. Architect Project Number: 19189.
- F. Date of Addendum: Friday, October 9, 2020

1.2 NOTICE TO BIDDERS

- A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. The date for receipt of bids is unchanged by this Addendum , at same time and location.

1.3 ATTACHMENTS

- A. This Addendum includes the following attached Documents:
 - 1. Document Pre-Bid Meeting Agenda / Notes and Attendance Sheets dated October 8, 2020, (new).
 - 2. Document Lincoln Quad Salvage List, dated 10.09.2020 , (new).
- B. This Addendum includes the following attached Specification Sections:
 - 1. Section 32 84 23 - IRRIGATION, dated 10.09.2020 , (new).
- C. This Addendum includes the following attached Sheets:
 - 1. Civil Sheet C300-A-ALTERNATE GRADING AND UTILITY PLAN, dated 04.03.2020, (reissued).
 - 2. Civil Sheet C450 – UTILITY DETAILS, dated 04.03.2020, (reissued).

1.4 REVISIONS TO DIVISIONS 02 - 49 SPECIFICATION SECTIONS

- A. Specification Section 02 41 16 Structure Demolition and Site Restoration, (not reissued).

1. Paragraph 3.2 A. 1.: Add Subparagraph 3.2 A. 1. a. to read as follows:

“Contractor is to cut the sewer laterals at the Owner’s property line, cap with 12” of concrete. City inspection and approval of capping is required before covering the work. Contact Terre Haute City Inspector Dan Bell (812-244-4959).”
2. Paragraph 3.7 a. : Add Subparagraph 3.7 A. 4 to read as follows:

“Existing Below Grade Topography: For existing below grade topography not created by building removal or excavations, fill to 6” below grade as indicated above or by utilizing suitable earth spoils from the site with no toxic substances nor any objects larger than 2” x 2”, and capable of achieving the compaction levels indicated in the paragraphs above. Fill such areas from 6” to finish grade as indicated in paragraph above for below grade areas and voids resulting from demolition operations.
3. Article 3.1: Add Subparagraph 3.1 B. 1. to read as follows:

“Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.”
4. Article 3.1: Add Subparagraph 3.1 B. 2. to read as follows:

“Electrical equipment including but not limited to, devices, switches, and lamps: Before starting demolition, remove electrical items containing mercury or other EPA regulated materials and dispose in compliance with regulations and authorities having jurisdiction.”
- B. Specification Section 31 20 00 – Earth Moving, (not reissued).
 1. Paragraph 1.2.B.1: Delete this paragraph in its entirety.
 2. 1.2.B.2: Delete reference to 32 92 00 ‘Turf and Grasses’. Reference Section 02 41 16 Structure Demolition for turf and grasses.
 3. 1.3 A: Revise section number for “Unit Prices” to 01 23 00 from 01 22 00.
- C. Specification Section 32 12 16 – Asphalt Paving:
 1. 1.2 B 1 & 2: Revise Section 02 41 16 title to read “Structure Demolition and Site Restoration”.
- D. Specification Section 32 13 13 – Concrete Paving:
 1. 1.2 B.2: Delete reference to Section 32 13 16 in its entirety.
- E. Section 32 84 23 – Irrigation
 1. Add this Section in its entirety to the Bid Documents.

1.5 REVISIONS TO DRAWING SHEETS

- A. Sheet C-300A – Alternate Grading and Utility Plan (reissued).
 - 1. Revise Drainage Not D2. To read “Underdrain per Detail-A, Sheet C-450”.
 - 2. Revise Storm Structure 4 to 12” RCP End Section.
 - 3. Add contour label (484) to bottom of detention basin.
- B. Sheet C-450 – Utility Details (reissued).
 - 1. Remove Detail “Underground Stone storage Detention System – Detail A” in its entirety.
 - 2. Revise Label (6” Underdrain Detail) to read “6” Underdrain Detail-A”
- C. Drawing No. MD-100 – Site and Tunnel Demolition - Mechanical (not reissued).
 - a. Per City requirements, remove existing Manholes MH-1 & MH-4 on west side of site and associated piping connections. Cap existing sewer pipe from manhole to street connection at property line with minimum 12” concrete. Contact Dan Bell (812-244-4959), City Plumbing Inspector, for a final inspection and approval.
- D. Drawing No. ED-100 – Site Plan – Electrical Demolition (not reissued).
 - 1. Plan Note 2 – edit responsibility and scope of work as follows:
 - a. The Contractor shall expose the ductbank.
 - b. The Owner will cut the ductbank (concrete encasement, transite conduit and wire) into sections. Section lengths to be coordinated with the Contractor, but likely 8’ to 10’ sections.
 - c. The Contractor shall provide a roll-off or dump truck for transport. The Contractor shall load the sections and transport the sections for disposal at Sycamore Ridge Landfill. The Contractor shall pay all fees.
 - d. The Owner shall provide waste profile and manifest paperwork.
- E. Drawing No. E-100 – Site Plan – Electrical (not reissued).
 - 1. Plan Note 2 – delete last sentence about panel schedule.
 - 2. Plan Note 11 – also provide a 20 amp, 208V, 1-phase circuit for irrigation pump. Provide 3#3, 1-1/2”C from Panel ‘NP’. Provide 20A-2P breaker in panel.
 - 3. Plan Note 13 – Provide 3#1, 1-1/4”C (120V = Ph/N/G) and route around perimeter of site following circuit NP-5 circuit.
 - 4. Plan Note 16. Delete this note. These circuits are to be fed from existing Panel ‘TE’ per Plan Note 2.
- F. Drawing No. E-401 – Details – Electrical Site (not reissued).
 - 1. Panel ‘NP’ schedule – circuits 13, 15 & 17 shall be spare. Change circuits 27 & 29 to a 20A-2P breaker for irrigation pump.
- G. Drawing No. T-100 – Site Plan – Telecom (not reissued).
 - 1. All work associated with the security camera, hub and code blue shall be part of the parking lot Alternate bid.

1.6 QUESTIONS AND ANSWERS

- A. If the parking lot alternate is accepted, can we use the fill generated from the parking lot grading plan for backfill and fill on the site ?
1. Answer: The outdoor area east of the commons could receive these spoils (if suitable to compaction) since they are not the result of the building removal / excavation. We will clarify by addendum the compaction requirements at locations other than building removal / excavations.
- B. Can the Crushing of the concrete, block and brick. (The painted block as long as it is non lead based can be used for backfill per IDEM if approved) and used for backfill for this project?
1. Answer: The specifications currently are not allowing this in the bid documents – Reference Section 024116 Structure Demolition and Site Restoration Article 3.9 DISPOSAL OF DEMOLITION MATERIALS, which indicates to remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction...The apparent low and responsive bidder may, after bid award, choose to submit a voluntary proposal for this scope.
- C. Is there a soil borings or geotechnical survey for the project?
1. Answer: No.
- D. Are all portions of basements indicated to be remaining on the site prior to the original construction to be removed?
1. Answer: No, the remains of these structures are not indicated on the drawings to be removed, only site elements, building, or portions of buildings built after 1968, shown on the bid document drawings, and observable on site at present.
- E. Who will be responsible for disconnect water service and sewer service from city services?
1. Answer: The Contractor. Per Dan Bell (812-244-4959) Terre Haute City plumbing inspector, the Contractor is to cut the sewer laterals at the Owner's property line, cap with 12" of concrete. Dan Bell's inspection and approval of capping is required before covering the work.
- F. Can you please clarify who will be responsible for the removal of All furniture MSW materials? (There was a lot of furniture and other MSW material on south buildings such as a mattress, sofa, chair, etc.)?
1. Answer: Conditions in Lincoln Quad present and present at the time of bidding will be maintained until the time of Contractor Mobilization. The Contractor is responsible to remove and dispose of all items in the facility unless noted otherwise to be salvaged by the Owner. A list of items to be salvaged will be included by Addendum.
- G. When we were on site we see lamps, ballasts, mercury switches, electrical appliances so can you please clarify that the owner will remove all regulated waste, freon, and any kind of chemicals before demo?
1. Answer: The Contractor will be responsible for removal and legal disposal of these items unless specifically noted otherwise.

- H. Can you provide us a list of university certified Subcontractors for all Trades?
1. Answer: The University does not maintain a list of certified subcontractors. The University may respond to specific contractor/scope requests with contractors who have successfully completed work on the ISU Campus, however this should not be construed as a directive. MBE, VBE, and WBE goals listed for the project should also be considered when selecting subcontractors.
- I. Can Demo contractor crush concrete on-site and use it to backfill the site?
1. Answer: The specifications currently are not allowing this in the bid documents – Reference Section 024116 Structure Demolition and Site Restoration Article 3.9 DISPOSAL OF DEMOLITION MATERIALS, which indicates to remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction...The apparent low and responsive bidder may, after bid award, choose to submit a voluntary proposal for this scope.
- J. Does the Owner have any lead paint inspection report? Should the Demo contractor expect the building as a clean Building?
1. Answer: No, the Owner does not have a lead paint inspection report for the Project. Having been constructed in 1968, all painted surfaces should be assumed by the Contractor to have been painted at some point with lead-based paint. Contractor is responsible for removing and disposing of painted items in compliance with all laws and regulations.
- K. The Bid Form lists two alternates for a new irrigation system. Are there associated drawings or specs for these? I was not able to locate them in the drawings or project manual I have.
1. Answer: A specification for Irrigation requirements will be included in the next Addendum.

END OF DOCUMENT 00 91 13.2

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ISU Form PBA-20A/E

Pre-Bid Conference Agenda / Information

DATE: October 8, 2020
TIME: 10:00am
LOCATION: Skype Conference Call

To attend the Pre-Bid call 812-237-5920 and enter conference ID **3078016**.

Introduce Project: Lincoln Quad Demolition & Site Improvements, Bid Number B0027341.

Architect/Engineer: ARCDDESIGN / R.E. Dimond and Associates

Main Contact: Greg Miller Phone 317-559-1044 E-mail gmliller@arcdesign.us
Alt. Contact: Zach Grajewski Phone 317-951-9192 Ext. 232 E-mail zgrajewski@arcdesign.us
All questions shall be submitted through the Main Contact

Other A/E Contacts:

R.E. Dimond – MEP Engineer Dale Warner Phone 317-634-4672 E-mail dale.warner@redimond.com
Veridus – Civil Engineer Scott Senefeld Phone 317-598-6647 E-mail ssenefeld@theveridusgroup.com

Introduce Owner's Team:

Bryan Duncan, Dir Capital Planning/Improvements 812-237-8195 e-mail bryan.duncan@indstate.edu
Steve Culp, Owner's Project Manager 812-279-0409 (cell) e-mail steven.culp@indstate.edu
Mark Pupilli, Mechanical/Electrical Rep: 812-237-8185 e-mail mark.pupilli@indstate.edu
Pat Teeters, Contract Administrator: 812-230-6141(cell) e-mail patrick.teeters@indstate.edu
Greg Luken, Dir Housing Facilities Operations 812-237-3558 e-mail gregory.luken@indstate.edu

Bidding Documents:

Bidding Documents are available for download on-line from the ISU Plan Room at <http://www.indstateplanroom.com/> for \$5.00 which covers all downloads for that particular Project.
Note: Bidders must register for a free account the first time they access the website.

The Bid Documents may be ordered on CD (at a cost of \$7.50 per CD) or on paper copy (at applicable printing costs) from:

Rapid Reproductions, Inc. 812-238-1681
129 South 11th Street
Terre Haute, IN 47807

Forms for Bidding:

Refer to Section 00 10 10 Instructions to Bidders Part 3 for the forms required for Bidding and when they are due.

Submit Bids and other information to:

Office of the Purchasing Department
Facilities Management and Purchasing Building
951 Sycamore Street
Terre Haute, Indiana 47809

Bid Date: **October 20, 2020** Time Bids Due Into ISU Purchasing: **2:00pm LOCAL TIME**

There will be no in person Public Bid Opening. The Bids will be opened at 2:15pm on the due date and read aloud via Skype conference call. For conference call access call 812-237-5920 and enter conference ID **4386705**.

Type of Bid: Single Prime

Award Date: Within seven (7) days or less

Alternates:

1. Alternate No. 1: Remove existing perimeter sidewalks and curbs indicated in the base bid to remain and provide new concrete sidewalks in addition to new curbs and walks indicated to be replaced in the Base Bid.
2. Alternate No. 2: Provide new street and pedestrian lighting as indicated in the Construction Documents in lieu of maintaining existing street and pedestrian lighting included in the Base Bid.
3. Alternate No. 3: Provide a new lawn / landscape irrigation system for the base bid open lawn area as indicated in the Construction Documents, including new water service connection and piping to the site, through the utility tunnel, from the Student Recreation Center east of 6th Street.
4. Alternate No. 4: Provide a new vehicular parking lot and associated improvements indicated in the Construction Documents at the northern portion of the project site.
5. Alternate No. 5: Provide a new lawn / landscape irrigation system for a new vehicular parking lot and associated improvements (Alternate #4) and the open lawn area for the remainder of the site as indicated in the Construction Documents.

Allowances:

1. A \$2,500.00 Allowance shall be included in the Base Bid for the A/E to create "Record Drawings" as detailed in Section 01 77 00 Contract Closeout.
2. A \$50,000.00 Allowance shall be included in the Base Bid for Unforeseen Conditions and General Construction Contingency. It is solely at the discretion of the Architect/Engineer/Owner what costs may be applied to this Allowance.

Supplier/Subcontractor list: Appendix A, submit with Bid

Unit Prices: Appendix B, submit with Bid

1. Provide a cost per cubic yard to replace unsatisfactory soils at the project site.
2. Provide a cost per square foot to replace existing concrete-paved pedestrian walkway.
3. Provide a cost per lineal foot to replace existing concrete street curb.

Demolition Dates:

The Contractor shall begin Work within seven (7) days after Award and IDEM Permit release with all Work substantially completed by April 19, 2021. Final closeout shall be within thirty (30) calendar days thereafter. A warranty walk-thru will be held eleven (11) months from the date of substantial completion.

Tax Exempt (non-profit)

Indiana State University is a Tax-Exempt Institution and Indiana Sales Tax for products permanently incorporated in work shall not be included as part of the Bid or on any Application for Payment. Contact the Owner if a copy of the Certificate is needed.

Hours of Demolition:

When classes are in session (now until 11/20/2020 and starting after 1/11/2021) **8:00am to 9:00pm**. All other times the Contractor is free to work any hours.

Permits and fees:

Include with Bid

Asbestos or other hazardous materials:

Refer to Section 02 41 16 STRUCTURE DEMOLITION AND SITE RESTORATION paragraph 1.8 D regarding potential asbestos on the site.

Original Building Drawings:

A link to download the original 1968 construction drawings is available at <http://fileshare.arcdesign.us/File/tpQERs>

General Project Information and Requirements:

Site protection: See Specifications

Material storage: On-site

Parking: See Section 00 30 00 1.07 for requirements

Communication: Job Superintendent shall have a cellular phone.

Fire Protection: See Section 00 30 00 1.09 C for requirements

Salvage: The Owner has the right of first salvage. The Owner will supply a list of any items, not slated for reuse, which the Owner wishes to salvage. The Owner will remove all items to be salvaged.

Coordination With Owner: A minimum of seventy-two (72) Hours prior notification of any closings, areas to be blocked off or utility shutdowns.

Smoking Policy: See Section 00 30 00 1.06 for Rules

MBE/WBE/VBE Participation:

Indiana State University is committed to diversity and non-discrimination in all aspects of its operations. Refer to Section 00 10 30 for full information and links to websites of MBE/WBE/VBE Firms, Each Prime contractor should actively solicit and include certified minority, women and veteran owned subcontractors in bid submissions if economically feasible.

The Minority, Women's and Veteran's Business Enterprise Participation Plan Section 00 10 40 shall be **submitted with the Bid** of all Bidders. This Participation Plan will be considered during the proposal evaluation process. A standalone editable (fill in the blanks) PDF file has been uploaded to the plan room with the Bidding Documents to aid the Bidders in the submission of this required form.

Contact Mike Bonnett in ISU Purchasing Department 812-237-3600 with any questions.

Additional Site Visits:

None Scheduled. Contact Greg Luken (812-249-3038) or Steve Culp (812-249-0409) to schedule additional visits.

Owner Comments:

ISU is an FM Global insured Institution. An FM Global Hot Work Permit is required for torch or other open flame operations. Permits shall be requested from Bill Fairbanks, ISU Fire Safety Specialist, 48 hours prior to each operation and as indicated in Division 0 Sections.

Attendees at this online Prebid Meeting who have not previously submitted their participation form are requested to do so immediately following the meeting in order to be included in the addendum along with the Prebid Agenda / Information.

Consultant Comments:

Your interest in the Project and your questions during bidding are appreciated. Submit all questions in writing via email for response by the Architect. The Architect will make reasonable effort to respond in a timely manner to your questions. Your questions and our subsequent responses may be included in an Addendum if they are determined to provide scope clarification, scope adjustment, or otherwise resolve question of interpretation of the Bid Documents.

This Agenda and Information will be included in Addendum 2, anticipated to be posted tomorrow afternoon.

The Owner will have a list of equipment intended to be salvaged prior to the commencement of work. Should equipment on this list remain at the time of mobilization, the contractor will coordinate activities to allow the Owner to salvage these items.

An Irrigation specification will be included in the next Addendum providing requirements of the Irrigation system associated with Alternates 3 & 5.

Contractor questions:

Due to the nature of the online meeting forum, Bidders were requested to submit questions to the Architect / Engineer via email following the meeting.

e.c. Electronic Project Folder

Sign-in Sheet

Meeting: Lincoln Quad Demolition and Site Restoration

Date: October 8, 2020

Time: 10:00am

Name	Pat Teeters		
Company	ISU Department of Facilities Management		
Phone	812-237-8187	Fax	812-237-7630
Cellular	812-230-6141	E-mail	patrick.teeters@indstate.edu

Name	Bryan Duncan		
Company	ISU Department of Facilities Management		
Phone	812-237-8195	Fax	812-237-7630
Cellular		E-mail	bryan.duncan@indstate.edu

Name	Steve Culp		
Company	ISU Department of Facilities Management		
Phone	812-237-8183	Fax	812-237-7630
Cellular	812-249-0409	E-mail	steven.culp@indstate.edu

Name	Greg Miller		
Company	arcDESIGN, PC		
Phone	(317) 951-9192	Fax	(317) 951-9194
Cellular	(317) 445-4373	E-mail	gmler@arcdesign.us

Name	Dale Warner		
Company	R.E. Dimond & Associates		
Phone	(317) 634-4672	Fax	
Cellular		E-mail	dale.warner@redimond.com

Name	Scott Sennefeld		
Company	The Veridus Group		
Phone	(317) 598-6647	Fax	
Cellular	(317) 695-2394	E-mail	ssennefeld@theveridusgroup.com

Sign-in Sheet

Meeting: Lincoln Quad Demolition & Site Improvements Pre-Bid Conference Call

Date: October 8, 2020

Time: 10:00am

If you are planning to "attend" the Conference Call Pre-Bid please provide contact info for all attendees and e-mail this form to Pat Teeters patrick.teeters@indstate.edu

Name	Stanley Lewandowski		
Company	Spirtas Wrecking Company		
Phone	314.862.9800x2517	Fax	314.862.0229
Cellular	908.578.2924	E-mail	Stanley.Lewandowski@spirtas.com

Name	Todd Dickson		
Company	Spirtas Wrecking Company		
Phone	314.862.9800x2551	Fax	314.862.0229
Cellular	314.341.1151	E-mail	Todd.dickson@spirtas.com

Name	David Gaines		
Company	Spirtas Wrecking Company		
Phone	314.862.9800x2542	Fax	314.862.0229
Cellular	636.299.2201	E-mail	David.gaines@spirtas.com

Name	Charlie Whitlow		
Company	C-Cat, Inc.		
Phone	(317) 568-2899 x102	Fax	(317) 568-3718
Cellular	(317) 696-7574	E-mail	cwhitlow@c-cat.com

Name	Jeff Athey		
Company	Freitag-Weinhardt		
Phone	812-466-9816	Fax	812-466-7581
Cellular	812-264-8317	E-mail	jeffathey@freitaginc.com

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Name	Scott Hollmann		
Company	O'Rourke Wrecking Company		
Phone	(513) 871-1400	Fax	(513) 871-1313
Cellular	(513) 616-2031	E-mail	bid@orourkewrecking.com

Name	Patrick Roetting		
Company	Homrich		
Phone	734.654.9800	Fax	734.654.3116
Cellular	859.250.1350	E-mail	patrickr@homrich.com

Name	Stacy Gihart		
Company	Green Demolition Contractors Inc.		
Phone	312-409-4771	Fax	773-477-7149
Cellular	312-286-7467	E-mail	stacyg@greendemolitioninc.com

Name	Laura Hayes		
Company	Green Demolition Contractors Inc		
Phone	312-409-4771	Fax	773-477-7149
Cellular	773-288-9499	E-mail	laura@greendemolitioninc.com

Name	BK (Bhargav Kachhadiya)		
Company	Veit & company inc.		
Phone	763-428-6769	Fax	
Cellular	612-490-9756	E-mail	bkachhadiya@veitusa.com

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Name	Dean Reader		
Company	North American Dismantling Corp.		
Phone	810-664-2888	Fax	810-664-6053
Cellular	810-834-8229	E-mail	dreader@nadc1.com

Name	Rob Dinning		
Company	North American Dismantling Corp.		
Phone	810-664-2888	Fax	810-664-6053
Cellular	810-272-0395	E-mail	rdinning@nadc1.com

Name	Gage Cuppetilli		
Company	Adamo Demolition Co.		
Phone	313-892-7330 ext 127	Fax	313-892-4656
Cellular	313-779-7200	E-mail	gcuppetilli@adamogroup.com

Name	Arthur M. Dore		
Company	Dore & Associates		
Phone	989-684-8356	Fax	989-684-6663
Cellular	989-450-5145	E-mail	est@DOREASSOC.COM

Name	Stephen Coppler		
Company	Dore & Associates		
Phone		Fax	
Cellular	989-450-6099	E-mail	scoppler@yahoo.com

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Name	Bill Hann		
Company	Hannig Construction, Inc.		
Phone	812-235-6218	Fax	812-235-1218
Cellular	812-208-2131	E-mail	bhann@hannigconstruction.com

Name	Chris Hertzelt		
Company	Sunesis Environmental		
Phone	513-881-0900	Fax	513-326-6001
Cellular	513-335-9095	E-mail	chertzelt@sunesiscc.com

Name	JP Martinez		
Company	Sunesis Environmental		
Phone	513-881-0900	Fax	513-326-6001
Cellular	920-217-7138	E-mail	jpmartinez@sunesisenv.com

Name	Colin Stout		
Company	Innovative Demolition Service, LLC		
Phone	859-800-8194	Fax	
Cellular	859-619-7048	E-mail	innovatedemolitionsvc@gmail.com

Name	Paul Sharp		
Company	Innovative Demolition Service, LLC		
Phone	859-800-8194	Fax	
Cellular	859-621-1387	E-mail	Paulsharp97@gmail.com

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Name	Ben Hughes		
Company	Eastern Branch Demolition		
Phone	(202) 280-2058	Fax	
Cellular	(202) 525-8145	E-mail	Bhughes@easternbranch.com Estimating@easternbranch.com

Name	Ameerah Abutaa		
Company	Eastern Branch Demolition		
Phone	(202) 280-2058	Fax	
Cellular	(202) 816-2002	E-mail	Aabutaa@easternbranch.com Estimating@easternbranch.com

Name	Alex Bruns		
Company	Eastern Branch Demolition		
Phone	(202) 280-2058	Fax	
Cellular	(202) 258-5253	E-mail	Abruns@easternbranch.com

Name	Walter Kordek		
Company	Eastern Branch Demolition		
Phone	(202) 280-2058	Fax	
Cellular	(202) 839-1219	E-mail	Wkordek@easterbranch.com

Name	Simon Smith		
Company	Eastern Branch Demolition		
Phone	(202) 280-2058	Fax	
Cellular	(202) 235-6928	E-mail	Ssmith@easternbranch.com

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Name	Tom OBrien		
Company	Sabre Demolition		
Phone	315-320-4233	Fax	315-320-4238
Cellular	315-382-4010	E-mail	tobrien@sabredemolition.com

Name	Ian LaTulippe		
Company	Renascent		
Phone	317-783-1500 Ext 205	Fax	317-783-4860
Cellular		E-mail	ilatulippe@renascentinc.com

Name	Joann Zeller		
Company	Owl Creek Farm, LLC		
Phone	812-470-9380	Fax	
Cellular	812-550-0381	E-mail	owlcreekfarm@gmail.com

Name	Trevor Kolden		
Company	White Construction		
Phone	317-210-9550	Fax	
Cellular	812-558-8153	E-mail	Trevor.kolden@whiteconstruction.com

Name	Brett Pangallo		
Company	White Construction		
Phone	317-210-9550	Fax	
Cellular	317-796-4018	E-mail	Brett.pangallo@whiteconstruction.com

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Name	Keith Roembke – Director of Business Development		
Company	Crestline Construction		
Phone	317-620-6599 x 702	Fax	317.257.8925
Cellular	317-999-7354	E-mail	kroembke@thinkcrestline.com

Name	Rick Crouch – Director of PreConstruction		
Company	Crestline Construction		
Phone	317-620-6599	Fax	317.257.8925
Cellular	812-325-4737	E-mail	rcrouch@thinkcrestline.com

Name	Bud Holmes – Procurement Manager		
Company	Crestline Construction		
Phone	317-620-6599	Fax	317.257.8925
Cellular	317-361-8339	E-mail	bholmes@thinkcrestline.com

Name	Greg Goscenski		
Company	North American Dismantling Corp.		
Phone	810-664-2888	Fax	810-664-6053
Cellular	810-441-2447	E-mail	ggoscenski@nadc1.com

Name	Logan Jackson		
Company	North American Dismantling Corp.		
Phone	810-664-2888	Fax	810-664-6053
Cellular	810-441-7306	E-mail	ljackson@nadc1.com

Lincoln Quad Salvage List

1. Emergency Generator/transfer switch/accessories.
2. JCI NCE panel in mechanical room.
3. JCI Temperature control panel in kitchen.
4. Newer exterior light fixtures in the south interior courtyard.
5. LED wall packs.
6. Domestic hot water heating system with “Brain” mixing valves and monitoring system.
7. Small domestic hot water return pumps.
8. Main building chilled water pump.
9. Chilled water heat exchanger.
10. Temperature control valve on CHW heat exchanger.
11. Newer motors on HW and CHW pumps.
12. Transformers in transformer vault.
13. Storage shed east side of dock.
14. Walk-in cooler condensing unit and evaporator.
15. Mechanical room AHU.
16. Condensing unit located at south side by dock.
17. Small AHU’s serving north and south corridors in center complex.

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PART 1 – GENERAL

1.01 SCOPE

- A. This scope of work is to include a design-build bid for a complete irrigation system, including piping of irrigation water supply from the Owners well south of the Student Recreation Center, in accordance with these specifications and the Notice to Bidders for Alternates 3 and 5. As a part of this bid the contractor shall include submittal of design documents to the Architect for the layout and placement of heads, mainlines, valves, controllers, and miscellaneous connections for approval of total coverage of the turf areas.

1.02 RELATED SECTIONS

- A. All applicable Division 00 and 01 Sections
- B. Section 02 41 16 Structure Demolition & Site Restoration

1.03 SUBMITTALS

- A. Submit Product Data and Shop Drawings required for a complete irrigation system to Architect and Owner for Review and Approval prior to on-site operations.

1.04 RESPONSIBILITIES

- A. It is the responsibility of the irrigation contractor to be familiar with all grades differences, locations of walls, structures and utilities and make the necessary adjustments to accommodate the irrigation system as shown on the drawings when it is obvious in the field that unknown obstructions, grades or dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the Architect. In the event that this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions and cost necessary.
- B. Irrigation Water Supply & Utility Tunnel Piping: Contractor shall include in their design and bid the cost of all labor and materials to bring irrigation water to the site by tapping well head / supply south of the Student Recreation Center, installing supply piping in the utility tunnel from the well head to the project site for the irrigation system in accordance with University Standards.

1.05 DESIGN CRITERIA

- A. The irrigation system design shall be based on a minimum operating pressure of 65 psi @ the p.o.c. and a maximum flow demand of 57 gpm. The irrigation contractors shall verify water pressures prior to construction. Report differences between requirements and actual readings to the Architect.
- B. The Contractor shall provide 120V-AC power source at the irrigation controller location. The irrigation contractor shall make the final connection from the electrical source to the controller.
- C. Install all backflow prevention devices and all piping between the point of connection and the backflow preventer as per local codes.
- D. Install a 4" concrete pad that is 28" wide by 52" long that protects the piping risers of this system. Contractor shall provide and install a protective cover that is made from A-36 steel plate (3/8") that fully covers this equipment. Contractor shall provide anti-tampering

fasteners that bolts this protective cover to the concrete pad. If a special tool is required to remove the bolts to allow access to the Owner the Contractor shall provide two tools to the Owner as a part of this bid. Contractor shall protective coat (2 coats) of anodized dark bronze paint.

- E. Locate the backflow preventer and automatic controller at the southeast corner of the project site, north of the utility tunnel. Final location of the backflow preventer and the automatic controller shall be approved by the Architect per local codes.
- F. A quick coupling valve shall be located at the irrigation water supply point of connection to provide for a point of injection of compressed air to purge the system of retained water for winterization.
 - 1. Quick coupling valves shall be mounted on a 1" Lasco brass insert swing joint with stabilizer elbow.
 - 2. The irrigation contractor shall supply and install a Sta-Rite irrigation pump (model number JBMF 1.5 hp/230v). Location shall be coordinated with the Architect and Owner. The Owner will supply all power to this pump. The irrigation contractor shall make the final connection from the electrical source to the pump. Irrigation contractor shall install a 4" thick concrete equipment pad that is 12" larger (length and width), centering the pump upon this pad. Contractor shall also provide a protective enclosure per specification 1.03.E.
- G. Mainline and lateral piping and control wires:
 - 1. All mainline and lateral piping and control wires under paving shall be installed in separate sleeves (min. SDR 26 PVC) unless noted otherwise. Main and lateral sleeves shall be a minimum of twice (2X) the diameter of the pipe to be sleeved. Control wire sleeves shall be sufficient size for the required number of wires under paving.
 - 2. Pipe size shall conform to those shown on drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. Minimum pipe shall be 1".
 - 3. All lateral zones shall be connected to the mainline with PVC pipe and sized as follows:
 - a. 1" Class 200 = 0-17gpm
 - b. 1 1/4" Class 160 = 18 -29gpm
 - c. 1 1/2" Class 160 = 30 - 38gpm
 - d. 2" Class 160 = 39 - 59gpm
 - e. 2 1/2" Class 160 = 60 - 86gpm
 - f. 3" Class 160 = 87 - 129gpm
 - 4. Install thrustblocks behind elbows/tees and gate valves along 3" or larger mainlines. Thrustblocks are defined as 0.5 cubic feet of concrete
 - 5. All lateral piping shall be installed within a trench that is a minimum of 16 inches below grade. Contractor shall place 4 inches of "red sand" cushion prior to installing the piping. Contractor shall install all piping in a "S" fashion to prevent "water thrust pressures".

Contractor shall then place 8" of "red sand" in the trench for pipe coverage. Contractor shall then compact per these specifications and backfill the remaining trench with 4" of topsoil. All mainline piping shall be installed a minimum of 40" below grade. Contractor shall place 4" of "red sand" for cushioning, install the piping in a "S" fashion, and then place 32" of "red sand" for coverage. Compaction and topsoil shall be same as described for the lateral piping process. Contractor shall perform an air pressure test for 24 hours to assure no leakage of piping and joints is occurring before backfilling. The Architect or Owner shall be notified to witness the testing.

6. All fittings shall be schedule 40 PVC. All pipe shall be ASTM D2241 schedule 26

H. Component requirements:

1. All remote control valves, gate valves, quick couplers, control wire (16gauge) and computer cable pull points shall be installed in "Rainbird" approved locking valve boxes.
2. All sprinkler heads shall be set perpendicular and flush to finish grade and with a clearance of 2" (min.) from the edge of any hardscape unless otherwise specified.
3. All irrigation heads with a 1" or larger inlet are to be installed with 1" Lasco swing joints.
4. Check valves shall be installed on all irrigation heads in areas where finish grade exceeds 4:1, where post valve shut-off draining of the irrigation head occurs or as directed by the owner's representative.
5. Where Rain Bird 1800 series spray heads are used, provide 1800 pressure compensating screens and/or 1800 Van nozzles to reduce or eliminate overspray onto walks, streets, or other areas directed by the owner's authorized representative.
6. All sprinkler heads and valves shall be flushed and adjusted for optimum coverage with minimum overspray on walks, streets, walls, etc.
7. All irrigation equipment not otherwise detailed or specified shall be installed as per manufacture's (Rainbird") recommendations and specifications.

PART 2 – PRODUCTS

2.01 CONTROLS

- A. All irrigation controls shall be TUCOR advanced computer controlled irrigation system.
1. The site control boxes are connected via Owner supplied telephone lines back to the computer located at the Grounds Maintenance Office.

PART 3 – EXECUTION

3.01 METHODS NOT PERMITTED

- A. Above ground sprinkler systems
- B. Drip Irrigation heads, use pop-up fine spray heads.

3.02 CLOSEOUT

- C. The Irrigation Contractor shall assure to the Owner's satisfaction that the correct water coverage is within standard as well with The Irrigation Association guidelines.
- D. The Irrigation Contractor shall conduct a training session with the owner's representative to

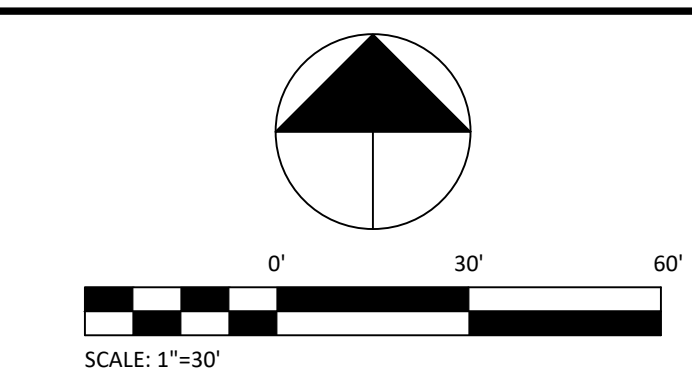
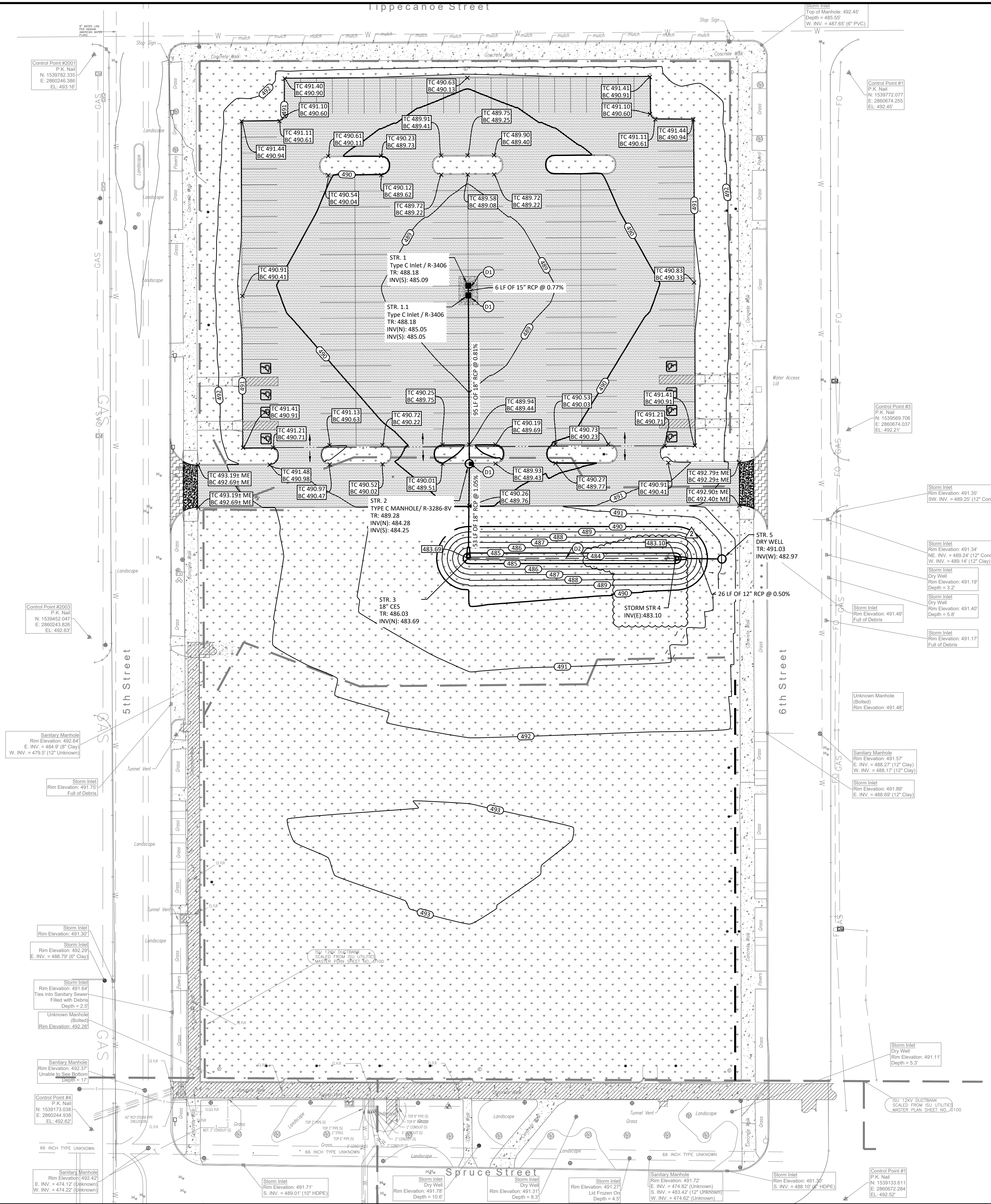
demonstrate the operation of the system and controllers.

- E. The Irrigation Contractor shall provide operation manuals, and a schedule of operation equal to 1" of application per week.
- F. Record drawings of the completed installation to the owner on reproducible vellum of the scale of the original construction document.

3.03 WARRANTY

- B. The Irrigation Contractor is responsible for settling of all trenches and sprinkler heads for a period of one year.
- C. A three (3) year written warranty to be issued by the Irrigation Contractor from date of substantial completion or first use, whichever shall occur first.
- D. Warranty to include:
 - 1. Shall warrant materials and workmanship of the system
 - 2. Shall warrant materials installed meet/exceed or product specifications
 - 3. Shall have a provision to replace such portions of the installed materials that are no longer serviceable (fair, wear or tear, or by breakage) (in accordance with the Warranty Standards), to maintain a serviceable and water economical irrigation system, and make good without cost or expense to the Owner.
 - 4. Shall state all limitations and exclusions.
 - 5. Shall be a warranty covering all workmanship and all self-manufactured or procured materials
 - 6. Shall provide start up and winterization services for all years warranted
 - 7. Shall provide the services of an Irrigation Auditor for three spring start ups after the initial installation audit to assure that the system performs to the expectations of The Irrigation Association standards and initial audit report. All deficiencies detected by the audits shall be repaired at no charge to the Owner. Three (3) copies of each years' report shall be transmitted to the owner.

END OF SECTION 32 84 23



GRADING/UTILITY LEGEND

ME	MATCH EXISTING
HP	HIGH POINT
LP	LOW POINT
BC	BOTTOM OF CURB
TC	TOP OF CURB
TR	TOP OF RIM/CASTING
FL	FLOWLINE
000	CONTOURS
TC 000.00	RIDGE LINE
000.00	CURB ELEVATIONS
→	SPOT ELEVATIONS
→	FLOW ARROW
---	FLOW LINE
---	STORM SEWER LINE

DRAINAGE

- D1. PAVEMENT UNDERDRAIN PER DETAIL TYP.
- D2. UNDERDRAIN PER DETAIL-A SHEET C-450

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY MYERS ENGINEERING, INC.. PROJECT NUMBER TM19-209-01, DATED 11.25.2019.

GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO STATE AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
3. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND INSPECTED BY THE RESPONSIBLE PARTY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START. TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES. THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF UNDER OR WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, THE CONTRACTOR SHALL PROOF-ROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUB-DRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR SHALL TEST FOR, AND CORRECT ANY DEFICIENT CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO STANDARD INDOT SPECIFICATIONS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. CONTRACTOR SHALL VERIFY ELEVATION OF ALL EXISTING STORM SEWERS BEFORE INSTALLATION OF THE PROPOSED STORM SEWER. IF A CONDITION IS DISCOVERED THAT PREVENTS INSTALLATIONS PER THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
14. CONTRACTOR SHALL PERFORM GRADING AND COMPACTION AND LIME STABILIZATION OF PAVEMENT SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
15. STRUCTURES RECEIVING SUBSURFACE DRAINS SHALL HAVE BOTH PORTS CORE DRILLED. FOR Y-BLIND CONNECTIONS ARE NOT ALLOWED.
16. ANY OFFSITE BORROW AND/OR WASTE SITES THAT ARE NEEDED SHALL BE PERMITTED AS PART OF THIS PERMIT OR BE PART OF AN EXISTING PERMIT.
17. IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
18. ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
19. ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
20. ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
21. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
22. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
23. ANY WATER MAINS TO HAVE 54" MINIMUM COVER OVER TOP OF PIPE.
24. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
25. STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH.
26. ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
27. IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.
- 28.

BENCHMARK DATA



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



PROJECT

ISU LINCOLN QUAD DEMOLITION

PRELIMINARY PLANS

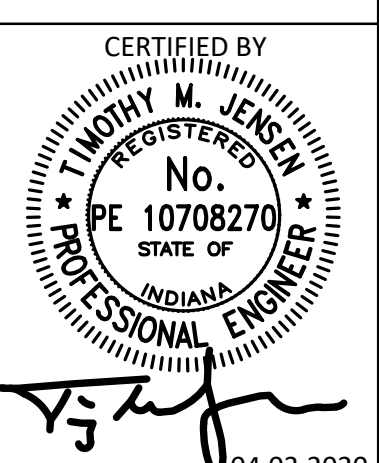
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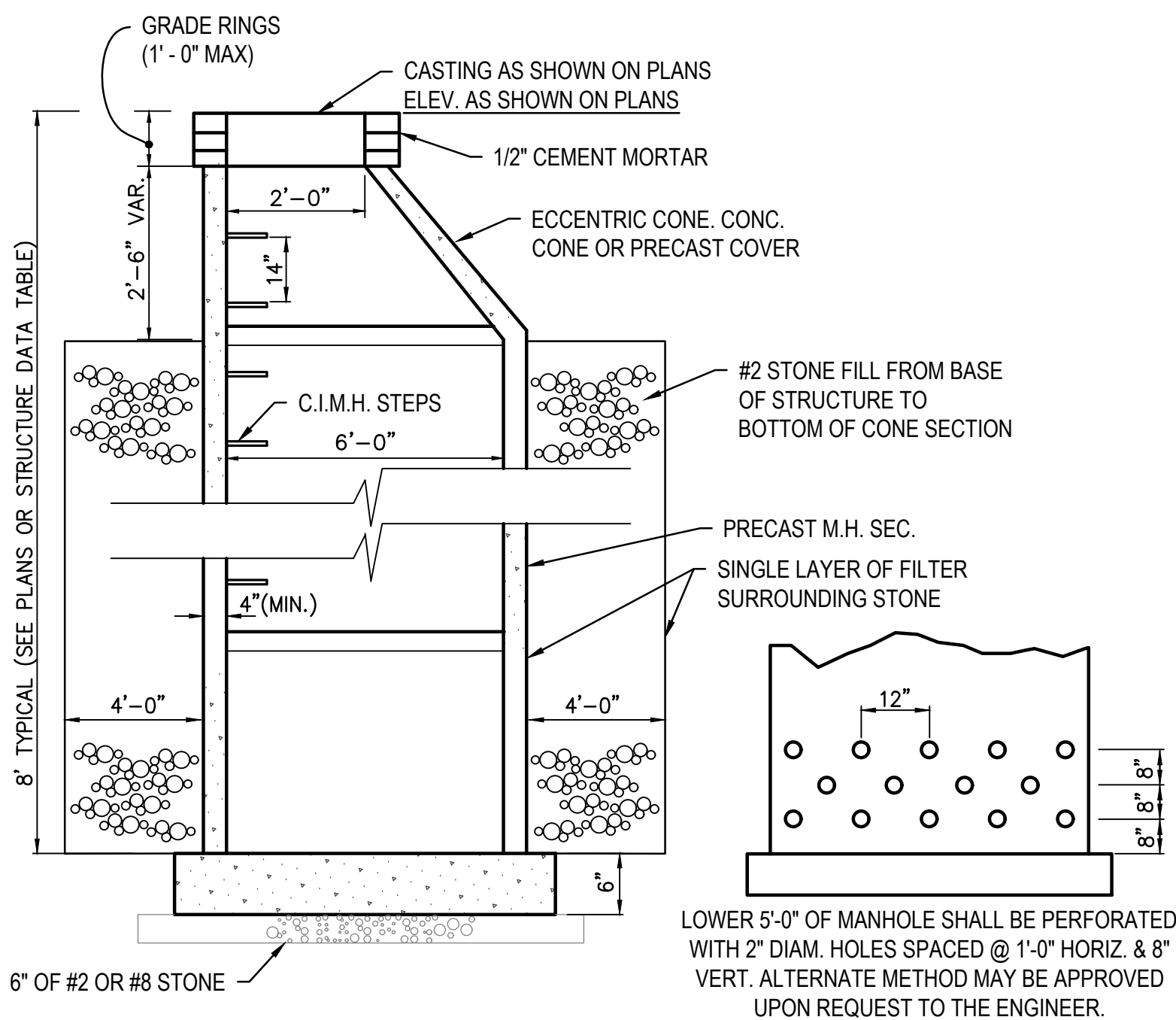
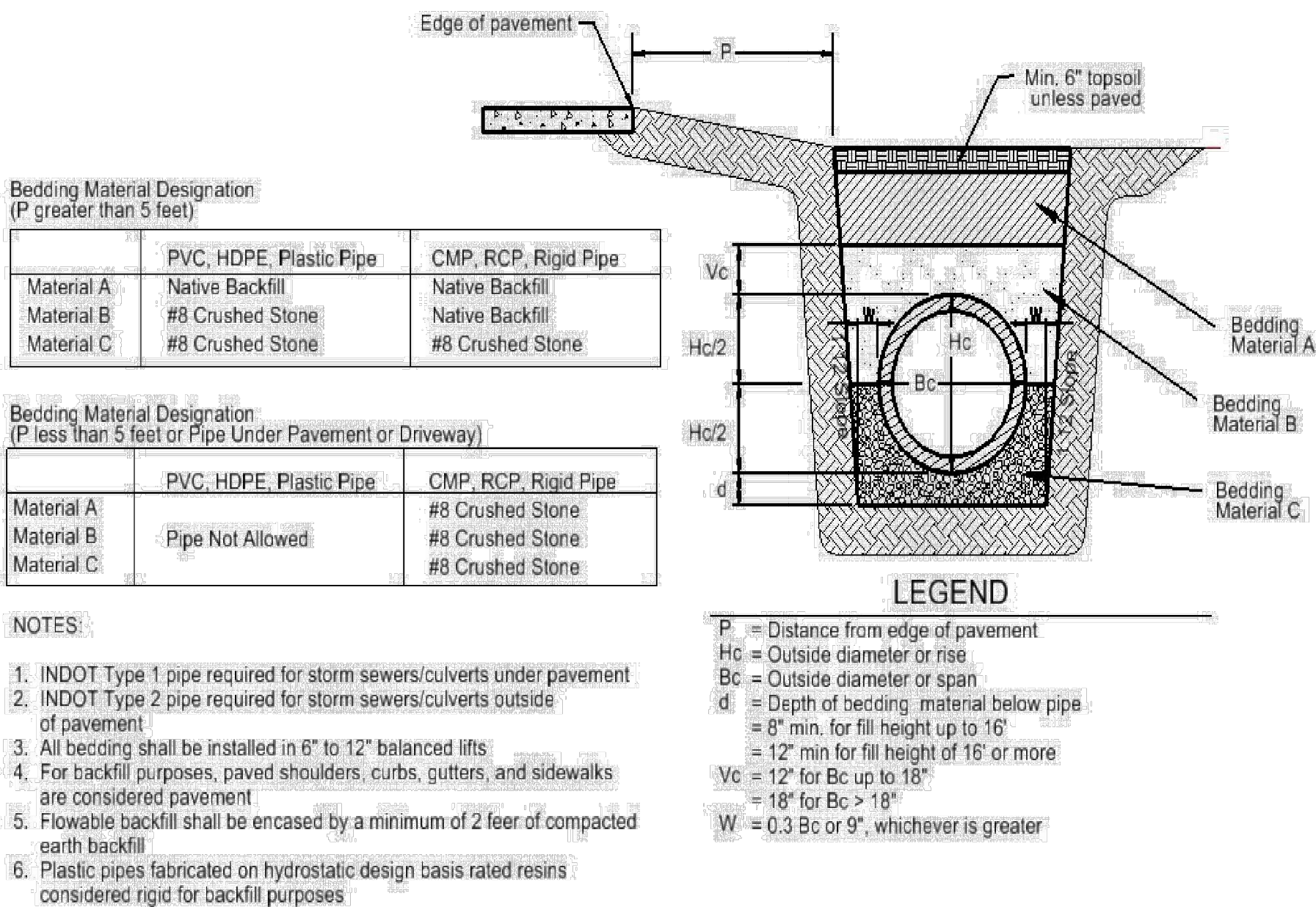
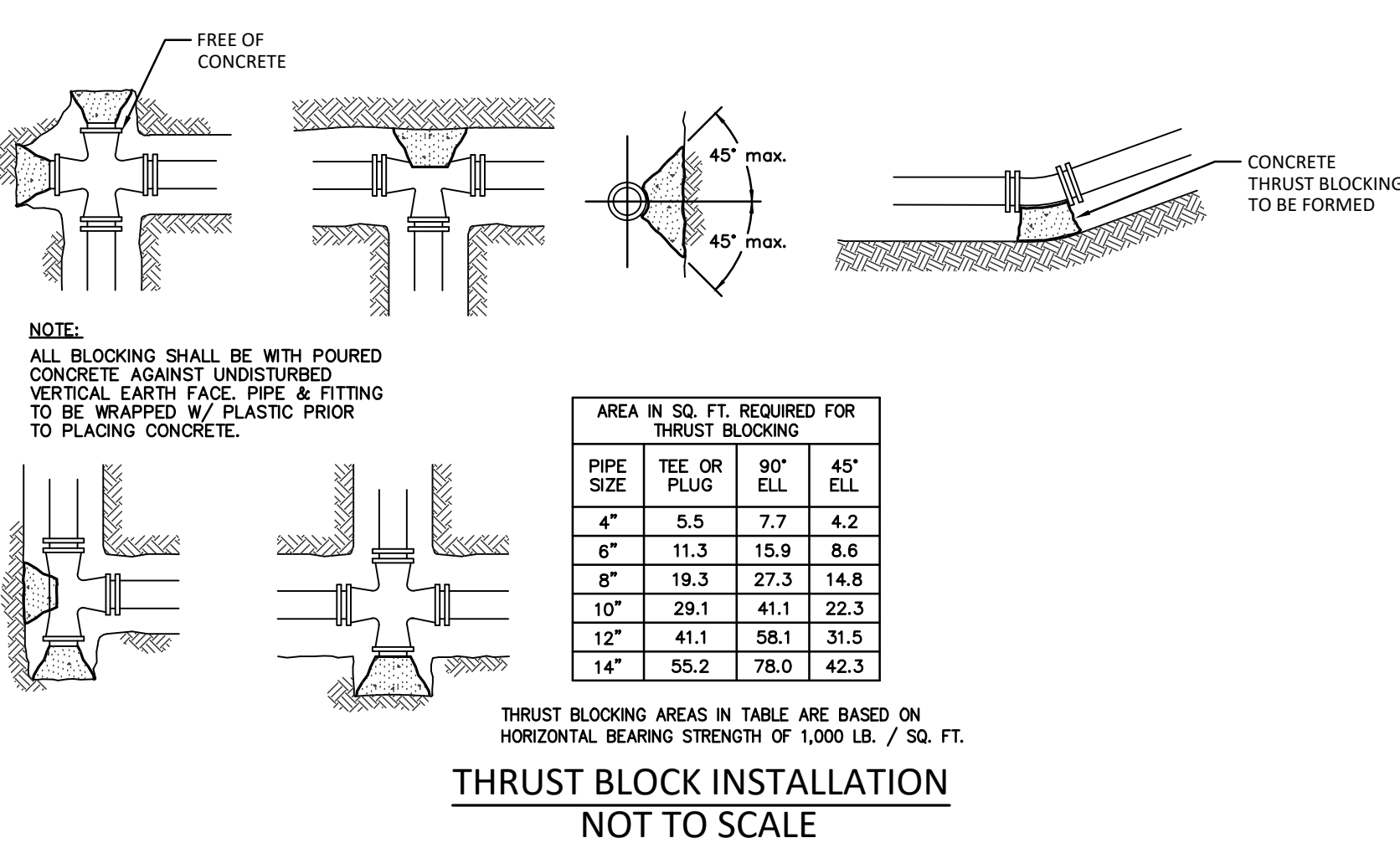
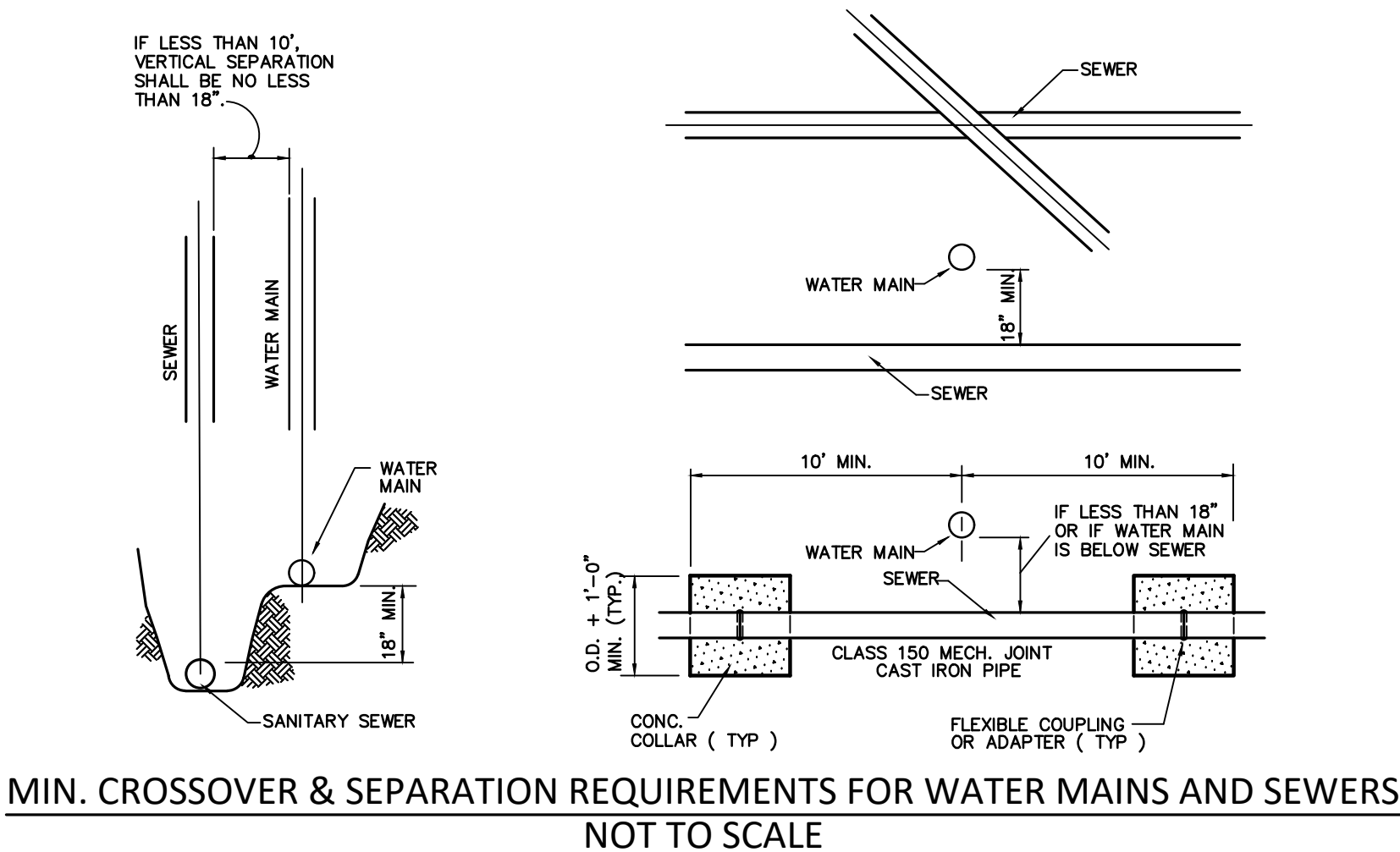
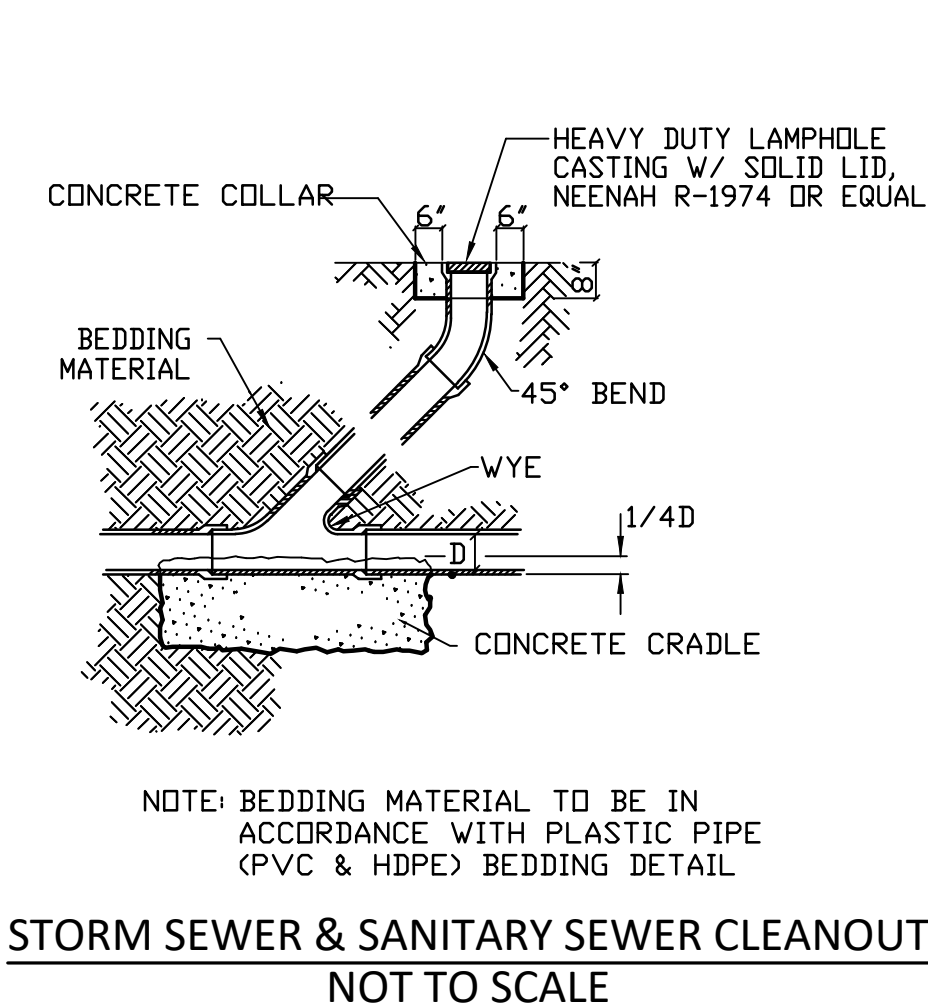
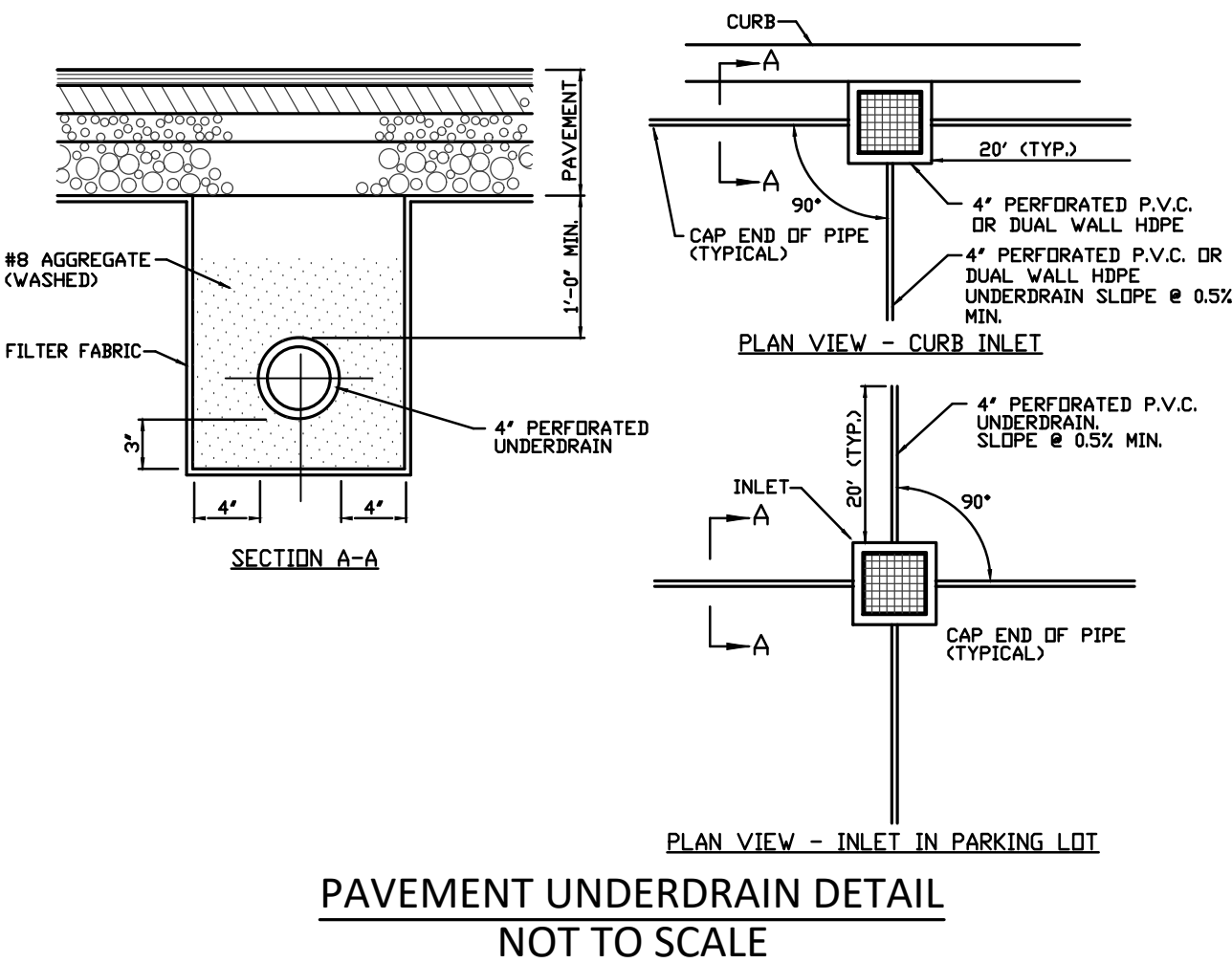
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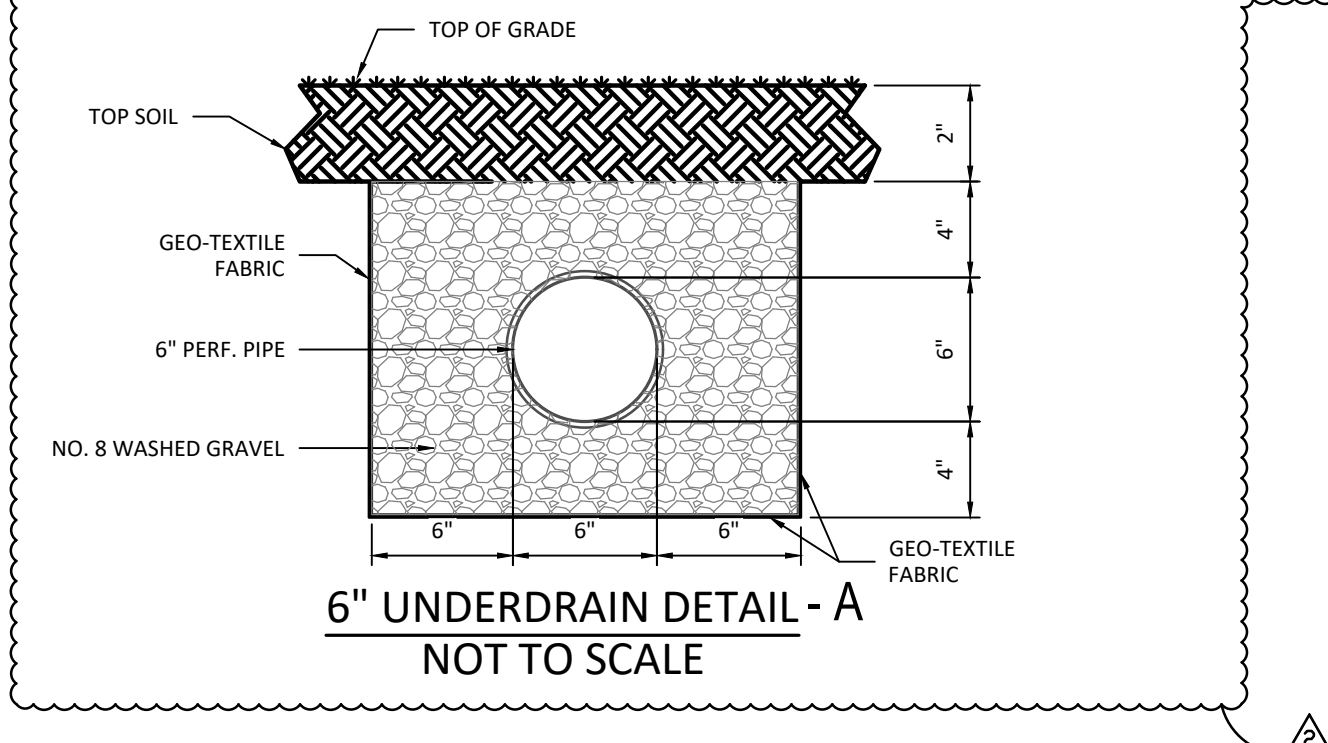
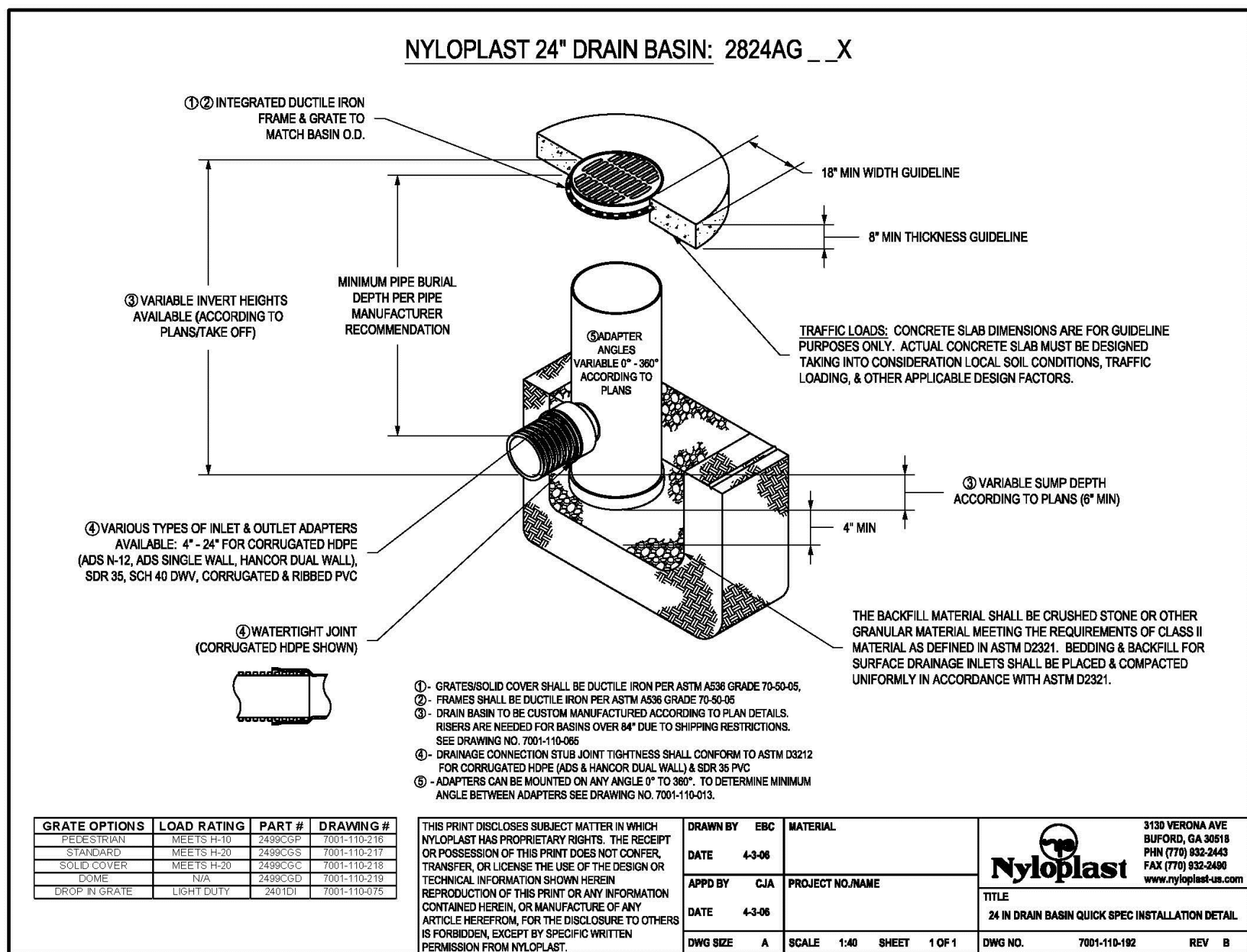
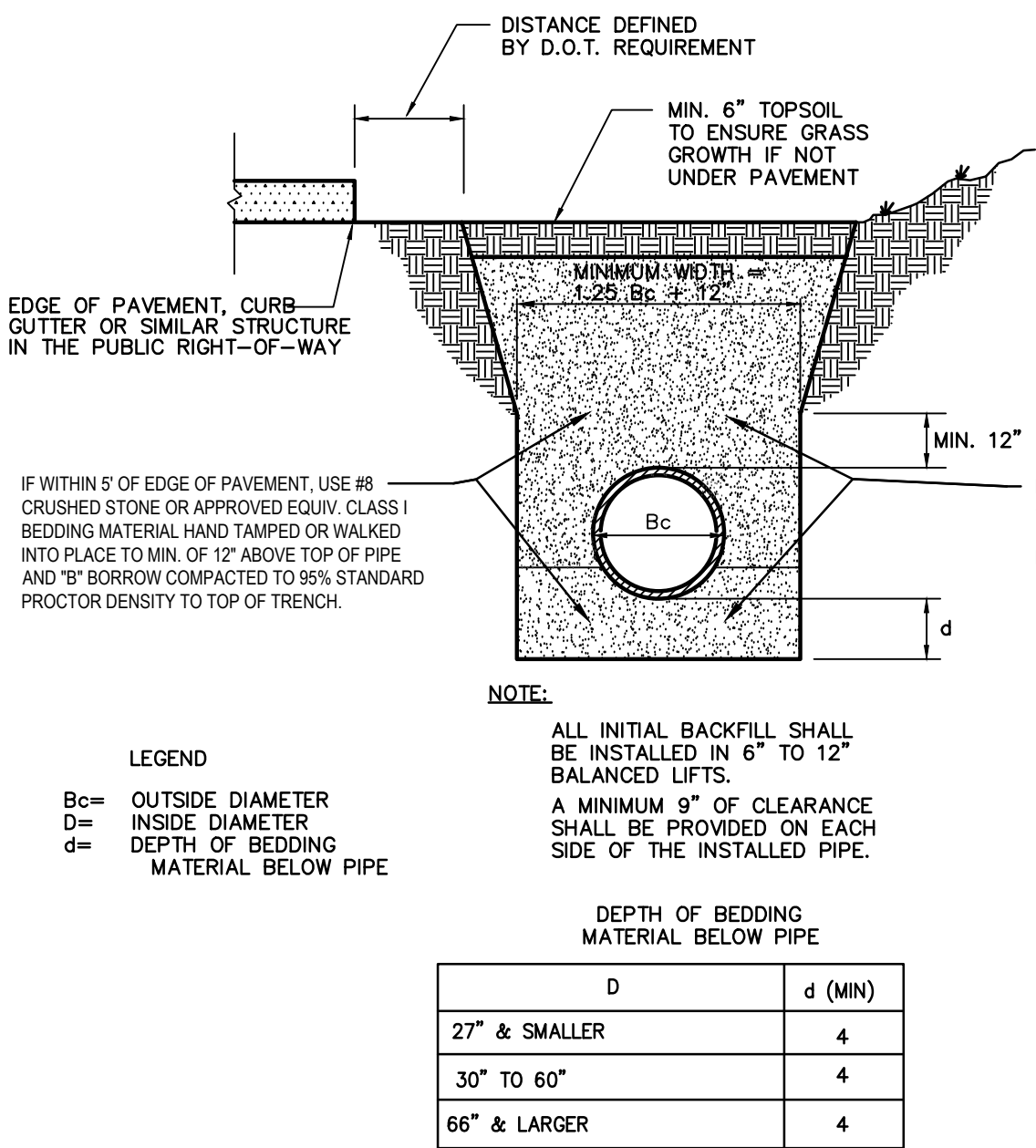
ALTERNATE GRADING & UTILITY PLAN



PROJECT NUMBER: 2019.0177
DRAWING NUMBER: C300-A



NOTE: THE INSIDE OF ALL STORM SEWER STRUCTURES SHALL HAVE FINISH GROUTING WHICH ENTAILS BETWEEN BARREL TO BARREL SECTIONS, BETWEEN RISER RINGS, AT CASTINGS AND AROUND ALL PIPES.



REVISIONS		
NO.	DATE	DESCRIPTION
1	10.05.20	ADDENDUM - 1
2	10.09.20	ADDENDUM - 2

ISSUE DATE: 04.03.2020
DRAWN BY: VALUE
CHECKED BY: TMJ

DRAWING TITLE
UTILITY DETAILS

CERTIFIED BY
TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER

04.03.2020

PROJECT NUMBER
2019.0177

DRAWING NUMBER
C450