

CONTRACT & BID DOCUMENTS

FOR

Lakeland Avenue Drainage Improvements

Project No. 26-07-715



Prepared by:
ENGINEERING DEPARTMENT
CITY OF VALDOSTA
August 2026

Bid Opening Date: September 24, 2026 - 10:00am

LAKELAND AVENUE DRAINAGE IMPROVEMENTS

Project No. 26-07-715

Bid Package Table of Contents

Cover Page
Table of Contents

Invitation for Bids
Proposal Form
Non-Collusive Affidavit
Georgia Security and Immigration Affidavit

Instructions to Bidders
Contract Agreement Form
General Provisions
Special Provisions
Opinion of Attorney Form
Public General As-Built Forms and Samples
Title VI Assurances Form
Contractor's Statutory Affidavit Form
Bid Bond Sample
Payment Bond Sample
Performance Bond Sample
Addendum Form (blank)
Notice or Award Form (blank)
Notice to Proceed Form (blank)
Change Order Form (blank)

Construction Plans titled: LAKELAND AVENUE DRAINAGE IMPROVEMENTS
prepared by the City of Valdosta Engineering Department and dated/revised
09/29/2025

Incorporated by reference:
GDOT Standard Specifications Construction of Transportation Systems 2021
City of Valdosta Land Development Regulations
City of Valdosta Water and Sewer Standard Specifications

INVITATION FOR BID
for
Lakeland Avenue Drainage Improvements
Valdosta, Georgia

Sealed bids will be received by the City of Valdosta at the office of the City Engineer, City Hall Annex Building, 300 N. Lee Street, Valdosta, Georgia, until 10:00 AM, Local Time, on Thursday, 09/24/2026 for drainage improvements on Lakeland Avenue including related work.

The Lakeland Avenue Drainage Improvement work consists of the following:

- Stormwater drainage improvements along Lakeland Avenue including curb and gutter, storm pipes and sidewalks
- Dredging of the existing channel of One Mile Branch
- Construction of a 1.25-acre regional stormwater pond to the west of One Mile Branch
- Construction of a 0.5-acre stormwater pond behind the Senior Center

Specifications, Bidding and Contract Documents can be found on the City of Valdosta website <http://www.valdostacity.com/bid-opportunities> . This will be a Unit Price Contract, and payments will be made on a monthly basis with payment to be based on actual quantities of work measured. The list of items shown in the Unit Price Schedule is inclusive of all the work shown and described. The contract time is 300 calendar days. For more information contact Charlie Clark, Engineering Project Manager, at (229) 259-3530.

No bid may be withdrawn for a period of thirty (30) days after the scheduled time for receiving the bids.

Bids must be accompanied by a signed and notarized non collusive affidavit as well as a signed and notarized Georgia Security & Immigration Compliance affidavit.

Bids must be accompanied by a certified check or bid bond in an amount of not less than five (5) percent of the amount bid. A Contract Performance Bond and Payment Bond equal to one hundred (100) percent of the contract price will be required. If bid price is \$25,000.00 or less no bonds are required.

A mandatory Pre-Bid meeting will be held on Tuesday, 09/08/2026 at 10:00 AM at the Engineering Department office, 300 N. Lee Street, Valdosta, Georgia. No one will be allowed to sign in after 10:00 AM.

The successful bidder, being responsible as well as responsive, shall commence work with an adequate force and equipment on a date specified in a written order of the City Engineer and complete the work within the time specified under the Special Conditions section of these specifications.

The City of Valdosta reserves the right to reject any or all bids, to waive informalities and to readvertise.

The City of Valdosta is an equal opportunity employer.

CITY OF VALDOSTA, GEORGIA
Engineering Department

INVITATION FOR BID
for
Lakeland Avenue Drainage Improvements
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CITY OF VALDOSTA, GEORGIA
Engineering Department

PROPOSAL

TO: City of Valdosta, Lowndes County, Georgia

All interested parties:

In compliance with the advertisement for bids, the undersigned, hereinafter called the Bidder, proposes to enter into a contract with the City of Valdosta to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, and all necessary labor to complete the construction of the work stipulated herein in full, and in complete accord with the shown, noted, described, specified and reasonably intended requirements of the Specifications, Drawings, and Contract Documents to the full and entire satisfaction of the Owner.

The Bidder has carefully examined and fully understands the contract, plans, specifications and other documents hereto attached and has made a personal examination of the site of the proposed work and hereby agrees that if his proposal is accepted, the Bidder will contract with the City of Valdosta in compliance with the specifications.

The Bidder acknowledges that each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item; the Bidder acknowledges that the estimated quantities are not guaranteed, and are for the purpose of comparison of Bids; and the Bidder acknowledges that final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

Bidder will perform the following Work at the indicated unit prices:

The rest of this page intentionally left blank.

See next page for unit cost schedule.

LAKELAND AVENUE DRAINAGE IMPROVEMENTS
CITY OF VALDOSTA, GEORGIA

BID FORM / UNIT COST SCHEDULE

Issued 08/27/2026

ITEM NO.
(GDOT Spec.
Sec.#)

		ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
150-	A	Mobilization / Demobilization	1	LS		
150-	B	Traffic Control	1	LS		
150-	C	Construction Survey Staking & As-Built Surveying and Documentation	1	LS		
126-	A	Adjust Sewer Service	8	EA		
126-	B	3/4 inch residential water service (New) installation (short side)	8	EA		
126-	C	3/4 inch residential water service (New) installation (longside)	8	EA		
126-	D	Replace complete water line between corp and curb stop with CTS tubing	4	EA		
126-	E	8" QuikValve w/valve box	2	EA		
126-	F	Adjust water valve top	8	EA		
126-	G	Adjust manhole top - ring and cover	5	EA		
163-	A	Construction Exit - CO, Complete Including Installation, Maintenance, and Removal (contingency item, not shown on plans, to be installed	2	EA		
163-	B	Check Dam - Stone (Cd) including installation, maintenance and removal	2	EA		
163-	C	Check Dam - Haybale (Cd) including installation, maintenance and removal	15	EA		
163-	D	Storm Outlet Protection, duimped stone riprap	30	EA		
163-	E	Sediment Trap (Sd-2), including installation, cleaning & maintenance, removal, and cleanup	51	EA		
163-	F	Sediment Trap (Sd-2p), including installation, cleaning & maintenance, removal, and cleanup	16	EA		

Bidder: _____

LAKELAND AVENUE DRAINAGE IMPROVEMENTS
CITY OF VALDOSTA, GEORGIA

BID FORM / UNIT COST SCHEDULE

Issued 08/27/2026

ITEM NO.
 (GDOT Spec.
 Sec.#)

		ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
163-	G	Mulch Stabilization - DS1 - temporary mulching, including installation and maintenance	6	SY		
163-	H	Ds3 - permanent grassing, including installation, maintenance for duration of contract	6	AC		
171-	A	Sd1-NS - silt fencing, non-sensitive, including installation, maintenance, and removal	1,500	LF		
171-	B	Sd1-S - silt fencing, non-sensitive, including installation, maintenance, and removal	700	LF		
210-	A	Clearing, Grubbing, Demolition, Including Sawcut of Concrete & Asphalt and Offsite Disposal of Debris	1	LS		
210-	B	Removal of Existing Pipes Not Shown on Plans (to be performed as directed by Owner based upon field conditions)	60	LF		
210-	C	Grading Complete including Excavation, Embankment, Fine Grading, and Compaction of Construction Area (as shown on cross sections;	1	LS		
210-	D	Demolition Complete including demolition, salvage and reinstallation of items identified on the construction plans, appropriate off site	1	LS		
210-	E	Unsuitable Soil Removal & Replacement - Excavation & offsite Disposal AND Borrow Soil Offsite Excavation, Haul, Onsite Placement	200	CY		
310-	A	Graded Aggregate Base Course, 8" depth, Including Bituminous Prime	467	SY		
402-	A	Asphalt Pavement Cut & Patch	40	LF		
402-	B	Recycled Asph Conc Leveling, Incl Bitum Matl & H Lime	85	TN		
402-	C	Recycled Asph Concrete Asphalt, 9.5mm Superpave	475	TN		
413-	A	Bituminous Tack Coat (apply to existing asphalt pavement)	500	GAL		
432-	A	Milling Area Asphaltic Pavement	2,750	SY		
441-	A	Concrete Sidewalk, 6" thick, 5' nominal width, 3000 psi concrete	1,186	SY		

Bidder: _____

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ITEM DESCRIPTION

QUANTITY

UNIT

UNIT COST

TOTAL COST

441-	B	Concrete Edge Trail at Pond Bank - 8' wide, 6" thick, 3000 psi concrete	978	SY		
441-	C	Enhanced Swale Section (see detail)	278	SY		
441-	D	Concrete Curb & Gutter, 6"x 24"	120	LF		
441-	E	Concrete Driveway - 6" thick, 3000 psi	862	SY		
441-	F	Concrete Slab on Grade, 3000 psi (not shown on plan; to be installed as directed by Owner based upon field conditions)	30	CY		
441-	G	Concrete Matting Outlet Protection - interconnected, articulated, concrete block	483	SY		
441-	H	GDOT Detail A3 -Type B; Radial Handicap Ramp	3	EA		
441-	I	GDOT Detail A3, Type D Skewed Ramp, GDOT Detail A3	0	EA		
441-	J	Concrete Encasement, see City of Valdosta detail	25	LF		
550-	A	15" Safety End Section, concrete, GDOT Std 1122-C	2	EA		
550-	B	15" Reinforced Concrete Pipe	130	LF		
550-	C	18" Reinforced Concrete Pipe	858	LF		
550-	D	24" Reinforced Concrete Pipe	241	LF		
550-	E	36" Reinforced Concrete Pipe	179	LF		
550-	F	48" Reinforced Concrete Pipe	332	LF		
550-	G	15" High Density Polyethelene Pipe	16	LF		
550-	H	18" High Density Polyethelene Pipe	328	LF		

Bidder: _____

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550-	I	24" High Density Polyethelene Pipe	49	LF		
550-	J	30" High Density Polyethelene Pipe	431	LF		
550-	K	36" High Density Polyethelene Pipe	503	LF		
550-	L	42" High Density Polyethelene Pipe	689	LF		
550-	M	48" High Density Polyethelene Pipe	236	LF		
550-	N	60" High Density Polyethelene Pipe	390	LF		
610-	A	Connect to Existing Sewer Manhole, clean, line & coat	2	EA		
610-	B	8" PVC Sewermain (Complete in Place)	247	LF		
610-	C	10" PVC Sewermain (Complete in Place)	736	LF		
610-	D	12" Sewermain - either 12" DR17 HDPE installed by pipe bursting, or 12" SDR26 PVC installed by open cut)	283			
610-	E	6" Sewer Lateral	200	LF		
610-	F	6" Sewer Service Cleanout	7	EA		
610-	G	Sewer Manhole (8' Depth)	7	EA		
610-	H	Sewer Manhole - extra depth over 8'	8	EA		
610-	I	Sewer Manhole Rehabilitation	3	EA		
610-	J	Bypass Pumping - Sewer	1	LS		
636-	A	Traffic Sign - 36" Traffic Sign on Post, per MUTCD, complete and installed (STOP sign at each intersection, NO OUTLET at each dead	4	EA		
636-	B	Relocate Regulatory Signs and Posts, complete, installed (work will be performed as shown on plans and as needed as directed by	12	EA		

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		ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
643-	A	Remove and Replace Existing Fencing, Match Materials and Height	300	LF		
643-	B	Remove and Replace Existing Gates, Match Materials and Height	3	EA		
643-	C	Remove and Replace Existing Satellite Dish, Dumpster Pad, Decorative Light, Bench, Trash Receptacle	1	LS		
643-	D	Chain Link Fencing - black vinyl coated, 4' height with top and bottom rail,	820	LF		
643-	E	Chain Link Fencing - black vinyl coated, 4' height, double 8' gate, total width 16'	1	EA		
653-	A	Thermoplastic Traffic Stripe, solid yellow double 5" wide	2,250	LF		
653-	B	Thermoplastic Traffic Stripe, Standard Ladder Crosswalk, 8' wide stripes, white	120	LF		
653-	C	Thermoplastic Traffic Stripe, solid white stop bar 24" wide	120	LF		
660-	A	Sewer Service Lateral Adjustment (vertical adjustment and/or extension to R/W)	0	EA		
668-	B	Safety End Section - GDOT Std Detail 1122 - 15"	3	EA		
668-	C	Flared End Section - GDOT Std Detail 1120 - 18"	5	EA		
668-	D	Flared End Section - GDOT Std Detail 1120 - 30"	2	EA		
668-	E	Flared End Section - GDOT Std Detail 1120 - 42"	1	EA		
668-	F	Safety End Section - GDOT Std Detail 1122 - 18"	1	EA		
668-	G	End Section - GDOT Std Detail 1125 - 48"	1	EA		
668-	H	End Section - GDOT Std Detail 1125 - 54"	1	EA		
668-	I	Headwall End Section - GDOT Std Detail 1001B - 18"	1	EA		
668-	J	SW Outfall Structure End Treatment - see details and plans	1	EA		

Bidder: _____

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		ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL COST
668-	K	EW Outfall Structure End Treatment - see details and plans	1	EA		
668-	L	Catch Basin - GDOT Std Detail 1033D	10	EA		
668-	M	Catch Basin - GDOT Std Detail 1034D	3	EA		
668-	N	Drop Inlet - GDOT Std Detail 1019A Type C with Weir (single or double weir)	10	EA		
668-	O	Drop Inlet - GDOT Std Detail 1019A Type D with weir	5	EA		
668-	P	Drop Inlet - GDOT Std Detail 1019A Type E with Hood	2	EA		
668-	Q	Weir Inlet - GDOT Std Detail 9031S with Double Weir	4	EA		
668-	R	Manhole - GDOT Std Detail 1011A (48" dia)	5	EA		
668-	S	Manhole - GDOT Std Detail 1011A (48" dia) with 18" #57 stone Sump and 24" Hinged Locable Cover	1	EA		
668-	T	Manhole - GDOT Std Detail 1011A (96" base unit)	3	EA		
668-	U	Manhole - GDOT Std Detail 1011A (72" base unit)	2	EA		
668-	V	Manhole - GDOT Std Detail 1011A (60" base unit)	10	EA		
668-	W	Manhole - GDOT Std Detail 1011A (84" base unit)	3	EA		
668-	X	Structure - GDOT 9031U with Double Access Grate (6'x12')	2	EA		
668-	Y	Structure - GDOT 9031U (6'x12')	2	EA		
670-	A	Raise/Adjust Existing Manholes Top; adjust manhole ring & cover to finished grade	5	EA		

Bidder: _____

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670-	B	8" Water Main , PVC	200	LF		
670-	C	8" Tapping Sleeve & ValveTee (Water)	0	EA		
670-	D	8" Tee (Water)	0	EA		
670-	E	8" Plug (Water)	0	EA		
670-	F	8" Gate Valve (Water)	0	EA		
670-	G	Fire Hydrant and Valve Assembly (includes hydrant, valve, 6" main, 8x8x6 Tee, and associated work) - Install New Hydrant	1	EA		
670-	H	Fire Hydrant and Valve Assembly (includes hydrant, valve, 6" main, 8x8x6 Tee, and associated work) - Relocate Existing Hydrant	1	EA		
670-	I	Water Valve Top Adjustment (work will be performed as shown on plans and as needed as directed by owner)	15	EA		
670-	J	Lower 8" Water Main including pipe and fittings as necessary to clear new pipe construction - see detail	5	EA		
670-	K	Horizontal & Vertical relocation of 8" Water Main including pipe and fittings as necessary to clear new pipe construction	0	EA		
670-	L	Water Service Lateral Adjustment (vertical adjustment and/or extension to R/W)	15	EA		
670-	M	Water Meter Adjustment Relocation (work will be performed as shown on plans and as needed as directed by owner)	15	EA		
670-	N	8" Bend (Water)	6	EA		
999-	A	Relocate/Rebuild/Replace Existing Mailboxes (match existing materials and appearance)	20	EA		
999-	B	Coordination with Utility Owners for Relocation (Power, Light, Telephone Pedestal, etc.)	1	L.S.		

BID TOTAL =

Bidder: _____

LAKELAND AVENUE DRAINAGE IMPROVEMENTS
CITY OF VALDOSTA, GEORGIA

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ITEM NO.
(GDOT Spec.
Sec.#)

ITEM DESCRIPTION

QUANTITY

UNIT

UNIT COST

TOTAL COST

ALTERNATE BID ITEM (not included in Bid Total)

a163-

A	Sod	500	SY	
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Bidder: _____

In case of discrepancies between figures in the unit prices and the total, the unit price shall apply.

It is understood and agreed that the quantities listed in this proposal are approximate only and are intended principally to serve as a guide in comparing bids and may be increased without invalidating the unit costs.

The undersigned, as Bidder, hereby declares that the only person, company, or parties interested in this proposal or the contract to be entered into as principles, are named herein; and this proposal is made without connections with any other person, company, or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud.

Failure to properly acknowledge any Addendum shall result in a declaration of non-responsiveness and disqualify the bid. Receipt of the following addenda is acknowledged:

Addenda Number	Date
_____	_____
_____	_____

The full names and addresses of persons or parties interested in the foregoing bid as principles are as follows:
Company & Address:

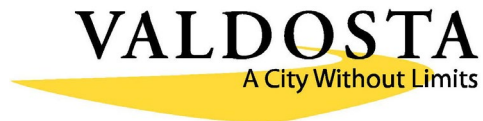
Date: _____

Signature

Signature

Registered Utility Contractors License Number: _____

END OF SECTION



NON-COLLUSIVE AFFIDAVIT

STATE OF _____

COUNTY OF _____

_____, being first duly sworn, deposes and says that he or she is a
(print name)

_____ of _____
(Owner, Officer, Agent, etc.) (Name of Business)

who is making the foregoing proposal or bid, that such proposal or bid is genuine and not collusive or sham; that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement, collusion, communication or conference with any person, to fix the bid price of affiliate or of any other bidder, or to fix any overhead, profit or cost element of said bid price, or that of any other bidder, or to secure any advantage against or any person interested in the proposed Contract; and that all statements in said proposal or bid are true.

Signature of Bidder

Title

Subscribed and sworn to before me this _____ day of _____ 20____

Signed by: _____
Notary Public (seal)

Print Name: _____ My Commission expires: _____



GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT

Contract No. and Name:

Contractor's Name:

City of Valdosta Georgia Contractor Affidavit

By executing this affidavit, the undersigned Contractor verifies its compliance with O.C.G.A. §13-10-91, stating affirmatively that the individual, firm, or corporation which is contracting with the City of Valdosta, Georgia has registered with and is participating in a federal work authorization program*, in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with the City of Valdosta, Georgia, the Contractor will secure from subcontractor(s) similar verification of compliance with O.C.G.A. § 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or a substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the City of Valdosta Georgia at the time the subcontractor(s) is retained to perform such service.

EEV / E-Verify TM User Identification Number

Date of Authorization

BY: Authorized Officer or Agent
(Contractor Name)

Date

Title of Authorized Officer or Agent of Contractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE

____ DAY OF _____, 20____

Notary Public

[NOTARY SEAL]

My Commission Expires: _____

*any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Contract Act of 1986 (IRCA), P. L. 99-603

INSTRUCTION TO BIDDERS

GENERAL:

Bidders are required to examine the Drawings and Specifications and other Contract Documents carefully and to make such examinations of the site of the proposed work as are necessary to familiarize themselves with the nature and extent of the work to be done and with all local conditions which may affect the proposed construction. Bidders are also required to inform themselves fully in regard to construction and labor conditions under which the work will be performed. The Owner will not be responsible for Bidders errors or misjudgment, nor for any information on local conditions or general laws and regulations.

Insofar as practicable the contractor will be required to so schedule his operations and employ such methods of carrying out the work that he will not cause any interruptions of, or interfere with the use of any existing premises and shall bear the expense of repair or any other cost incurred.

Scheduling of construction shall be done with the approval of the Engineer.

LOCATION AND SITE:

The site of the proposed work is in the City of Valdosta, Valdosta, Georgia.

The contractor shall, before submitting his bid, visit the site and acquaint himself with existing conditions.

PRE-BID CONFERENCE:

All parties associated with or interested in this project are welcomed to participate. A Conference Sign-In Sheet will be kept by the City to verify the parties' participation.

MAKING BIDS:

All bids must be submitted on Proposal forms attached hereto. No price changes shown on the envelope will be acknowledged. All proposals must be signed in ink by the person, or persons authorized to sign same, Bidders shall bid on all items of the proposal.

SUBMITTING BIDS:

Each bid must be submitted in a sealed envelope, bearing on the outside the name of the Bidder, his or their address, and addressed to the City Engineer, City of Valdosta, City Hall, Valdosta, Georgia and plainly marked as defined by the State of Georgia Licensing Board, **the Registered Utility Contractors License Number must appear on the front of envelope and in the space provided in the Bid Proposal.**

BID MODIFICATIONS:

Bid modifications are not allowed. Complete withdrawal or complete exchange of bid is acceptable, if done before scheduled bid opening.

AUTHORITY TO SIGN:

If a proposal is made by an individual, his name and post office address must be shown. If made by a firm, or partnership, the name and post office address of each member of the firm or partnership must be shown. If made by a Corporation, the person or persons signing the Proposal must show the name of the State under the laws of which the Corporation is chartered and his, or their authority for signing same; and the names, titles and addresses of the President, Secretary and Treasurer, and the Corporate authority for doing business in this State.

RIGHTS RESERVED:

The Owner reserves the right to reject any or all bids. It is understood and all bids are made subject to this agreement, that the Owner reserves the right to decide which bid is deemed the lowest and best, and in arriving at this decision, due consideration will be given to the Bidder, his financial responsibility, and work of this type successfully completed.

Any unauthorized conditions, limitations or provision attached to the Proposal will render it informal, and may cause its rejection. The Owner reserves the right to waive informalities.

No bids received after the time set for opening Proposals will be considered. No bids may be withdrawn after the bid opening.

PRICES BID:

The price bid shall include furnishing all equipment, tools, materials, skill, and labor of every description necessary to carry out and complete in good, firm, substantial and workmanlike manner the work specified in strict conformity with the drawings or direction of the Engineer.

CORRELATION AND INTENT OF DOCUMENTS:

The Contract Documents are complementary, and what is called for by any one shall be as binding as if called for by all.

The intent of the documents is that the Contractor will furnish all labor and equipment, materials, accessories, fittings, transportation, tools and appurtenances, such as may be reasonably required under the terms of the Contract to make such items of work complete.

The drawings are intended to conform and agree with the specifications; if however, discrepancies occur, the Engineers will decide which shall govern. Special specifications stated on the drawing govern that particular piece of construction and have equal weight with the printed specifications.

INTERPRETATIONS:

Requests for interpretations of drawings and specifications must be made in writing to the City Engineer not later than five (5) days prior to receipt of Proposals. Any interpretations made to bidders will be issued in the form of Addenda to the Specifications and sent to the bidders.

GUARANTEE TO ACCOMPANY PROPOSAL:

No proposal will be considered unless accompanied by a certified check or acceptable Bid Bond in an amount of not less than five (5) percent of the bid and made payable to the City of Valdosta, Georgia.

RETURN OF THE PROPOSAL GUARANTEES:

All proposal guarantees will be returned within ten (10) days following the opening of Proposals if requested, except those of the three lowest bidders, which will not be returned until after a satisfactory bond has been furnished and the Contract has been executed.

WITHDRAWAL OF PROPOSAL:

No bidder may withdraw his bid for a period of thirty (30) days after the date set for the opening thereof.

REJECTION AND IRREGULAR PROPOSALS:

Proposals will be considered irregular and may be rejected, if they show serious omissions, alterations of form, additions not called for, conditions, unauthorized alternate bids or irregularity of any kind.

LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT:

The successful bidder, upon his failure or refusal to execute and deliver the contract and bonds required within 10 days after he has received notice of the acceptance of his bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his bid.

CONTRACT PERFORMANCE BOND AND PAYMENT BOND:

The Contractor will be required to furnish a Contract Performance Bond and a Payment Bond executed by a Surety Company duly authorized to do business in the State of Georgia, in an amount equal to one hundred percent (100%) of the contract price, as security for the payment of all persons performing labor and furnishing materials in connection with this contract.

The form of the bonds shall be attached to these specifications and the Surety shall be acceptable to the Owner. In case of default on the part of the Contractor, all expenses incident to ascertaining and collecting losses under the bonds, including both engineering and legal services shall lie against the bonds. The Contractor will be

required to give a one-year guarantee covering workmanship and materials. The Contract Bond shall remain in force for one year from date of final acceptance of the equipment, materials and construction.

BOND REQUIREMENTS:

All bonds must be submitted on forms provided by an insurance company licensed in the State of Georgia. Payment and Performance Bonds shall be submitted in quadruplicate.

INSURANCE, PROOF OF CARRIAGE:

The contractor will be required to furnish the Owner with satisfactory proof of the carriage of the insurance required.

AWARD:

The award of the contract will be made as soon as practicable to the lowest responsible bidder meeting the requirements of the Owner; provided that in the selection of equipment or materials a contract may be awarded to a responsible bidder other than the lowest in the interest of standardization or ultimate economy. The successful bidder will be notified of the intention to award as soon after bids are opened as possible.

BIDDERS NOTICE:

Bidders are hereby notified and agree by submission of their Proposal that, after award of the Contract, should additional items not listed in the Proposal become necessary and require unit prices not established by the Proposal, that the unit prices of such items shall be negotiated and shall be directly proportional to the established unit prices of similar items in the Proposal.

AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 20____, by and between the City of Valdosta, Georgia (Party of the First Part, hereinafter called the **Owner**) and _____ (Party of the Second Part, hereinafter called the **Contractor**). THIS AGREEMENT is on a unit basis. It is understood that the quantities in the Contractor's Bid Proposal are approximate, and are subject either to increase or decrease, and payment will be based on actual quantities of work measured.

WITNESSETH: That the said Contractor has agreed, and by these presents does agree with the said Owner, for the consideration herein mentioned in this proposal and under the penalty expressed in includes all work shown on plans and specifications and listed in the attached proposal, to-wit:

LAKELAND AVENUE DRAINAGE IMPROVEMENTS Project No. 26-07-715

THE CONTRACTOR shall commence the work with adequate force and equipment on a date to be specified in a written Notice to Proceed from the Engineer and shall complete the work within 300 consecutive calendar days from and including said date.

In the event the contractor fails to complete the work within the contract time listed above, liquidated damages shall be paid to the Owner at the rate of **\$ 250.00** per day, plus any expense incurred by the Owner for engineering, legal and inspection services associated with such delays until substantial completion is achieved.

Bonds, hereto attached, to furnish all equipment, tools, materials, skill and labor of every description necessary to carry out and complete in good, firm, substantial and workmanlike manner the work specified, in strict conformity with the drawings, and the specifications hereinafter set forth, which drawings and the specifications, together with the foregoing proposal made by the Contractor, the Instructions to Bidders, General Conditions and this agreement, shall all form essential parts of this Agreement. The work covered by this agreement

THE OWNER shall pay and the Contractor shall receive the prices stipulated in the proposal hereto attached as full compensation for everything furnished and done by the Contractor under this contract for all Unit Price Work, an amount equal to the sum of the extended prices (established for each separately identified item of Unit Price Work by multiplying the unit price times the actual quantity of that item).

The extended prices for Unit Price Work set forth as of the Effective Date of the Contract are based on estimated quantities. With extended prices being the sum of _____ Dollars and _____ cents (\$ _____), which sum shall be paid in the manner and terms specified in the Contract Documents but, before issuance of certificate of payments, if the Contractor shall not have submitted evidence satisfactory to the Owner that all payrolls, material, bills, and other indebtedness connected with the work have been paid, the Owner may withhold in addition to the retained percentages, such amount or amounts as may be necessary to pay just claims for labor and services rendered and materials in and about the work, and such

amount or amounts withheld or retained may be applied by the Owner to the payment of such claims.

It is further mutually agreed between the parties hereto that if, at any time after the execution of the agreement and the surety bonds hereto attached for its faithful performance, the First Party shall deem the Surety or Sureties upon such bonds to be unsatisfactory, the Second Party shall, at its expense, within five (5) days after the receipt of notice from the First Party, so to do, furnish an additional bond or bonds in such form and amount, and with such Surety or Sureties as shall be satisfactory to the First Party. In such event no further payment to the Second Party shall be deemed to be due under this agreement until such new or additional securities for the faithful performance of the work shall be furnished in manner and form satisfactory to the First Party.

IN WITNESS THEREOF, the parties hereto have executed this Agreement in quadruplicate, this _____ day of _____, 20_____.

CITY OF VALDOSTA, GEORGIA
(Owner)

ATTESTED:

City Clerk

BY _____
(Seal) City Manager

ATTESTED:

Corporate Secretary

Contractor

Executed in Quadruplicate

(Corporate Seal)

GENERAL PROVISIONS

GENERAL NOTES:

These General Provisions shall apply to the Work as a whole and to each and all phases of the Work. Subcontractors shall be supplied with a copy of these General Provisions and no arrangements or contracts between the Contractor and the subcontractor are to be in conflict with same. They shall also apply to any modifications or extra work.

ACQUAINTANCE WITH CONDITIONS:

The Contractor shall be familiar with the site conditions, obstructions, etc. before starting the Work and report to the Engineer any discrepancy he might find. If no report is made there will be no additional compensation for encountering such.

DEFINITIONS:

Contract: The Contract consists of the Invitation for Bids, Proposal, Agreement, Bid Bond, Performance Bond, Payment Bond, Opinion of Attorney, Instruction to Bidders, General Provisions, Special Provisions, Measurement and Payment, Specifications, and the Drawings, including all changes incorporated therein before their execution. These documents form the Contract.

Owner: The Party of the First Part in the accompanying Contract.

Contractor: The Party of the Second Part in the accompanying Contract.

Subcontractor: Includes only those having a direct contract with the Contractor; it includes one who furnishes materials worked to a special design according to the Drawings and Specifications of this Work but does not include one who merely furnishes material not so worked.

Work at the Site of Project: The Work to be performed includes efforts and tasks normally done at the location of the project including all materials, equipment, labor, services and documentation necessary to construct the Project as defined in the Contract and includes efforts of the Contractor and the Subcontractors. The Work as employed herein means all tasks and efforts to be accomplished by the Contractor under the terms of this Agreement or as specified by the Engineer.

Project: The Work as a whole under this Contract, including all labor and materials, and all other items included in the Contract documents.

Engineer: The City Engineer and his office; the City Engineer will make the final decisions on design and construction.

City Engineer: Refers to the City Engineer, the City Engineer's staff, assistants and inspectors.

City: Refers to City of Valdosta, Georgia.

Written Notice: Written notice shall be deemed to have been fully served if delivered in person to the individual or to an officer of the Corporation for whom it is intended or if delivered at or sent by mail to the last business address known to the person who gives the notice.

STATUS AND DECISIONS OF ENGINEER:

The Engineer shall have general supervision and direction of the Work and has the authority to stop the Work whenever such stoppage may be necessary to insure the proper execution of the Contract.

The Engineer shall make decisions on all claims of the Contract and on all other matters relating to the execution and progress of the Work or the interpretation of the Contract documents.

PLANS AND DOCUMENTS FOR CONSTRUCTION PURPOSES:

The Contractor shall download from the City of Valdosta website a complete set of construction documents and Contract Specifications applicable to the Work required under this Contract for use during the course of construction. Revisions shall also be downloaded from the City's website. For download instructions, please visit the City of Valdosta website at www.valdostacity.com or contact the Engineering Department. If hardcopies are needed, the Contractor will be responsible to make efforts to have such hardcopies produced at his own expense.

SHOP DRAWINGS:

The Contractor shall provide the Engineer with four copies of shop drawings of any structure which requires details not shown on the construction Drawings. The Contractor shall provide shop drawings of any structure he intends to build in order to facilitate the construction of the project as a whole. The Contractor is to check shop drawings before sending them to the Engineer for approval and shall mark them as approved. The Engineer shall then check shop drawings and approve or disapprove them. Approval will not relieve the Contractor of any responsibility for accuracy of dimensions or details.

DRAWINGS AND SPECIFICATIONS:

All Drawings and Specifications are the property of the Engineer and are not to be used on other work without the permission of the Engineer. The Contractor shall keep a set of Drawings and Specifications on the site during the times of construction, and if the Contractor has no Drawings and Specifications, the Engineer shall have the authority to stop work until the above mentioned Drawings and Specifications are present on the site.

SPECIFICATIONS AND DRAWINGS TO BE COOPERATIVE:

The Specifications, the Drawings accompanying them and other Contract documents shall be supplementary to each other, and any material, workmanship and/or service which may be in one but not called for in the others shall be as binding as if indicated, called for, or implied by all.

The Contractor will understand that the Work herein described shall be completed in every detail notwithstanding that every item necessarily involved is not particularly mentioned, and the Contractor shall be held to provide all labor and material necessary for the completion of the indicated Work. Before starting the Work of the Contract, **the Contractor shall report in writing to the Engineer any discrepancy which he may discover between the Drawings and Specifications.** If the Contractor fails to call such discrepancy to the attention of the Engineer, the subsequent decisions of the Engineer as to which is correct shall be binding and final. Should any error and inconsistency appear in the Drawings or Specifications, the Contractor, before proceeding with the Work, shall make mention of the same to the Engineer for proper adjustment and in no case shall he proceed with the Work in uncertainty.

PROGRESS SCHEDULE:

The Contractor shall prepare and present to the Engineer a carefully prepared Schedule of Work which shall set forth the series of dates upon which the Contractor proposes to begin and finish the different parts of the Work.

ORDER OF WORK:

The Work shall be begun at such points as the Engineer shall designate and shall be prosecuted in the order he shall direct. This applies to both location and items of construction. The Contractor shall have no claim for extra compensation because of restrictions and limitations of work prescribed by the Owner.

SEQUENCE OF OPERATIONS:

In order that all phases of work to be done under the whole project may be properly coordinated, the Contractor shall arrange the sequence of his work in accordance with the schedule accepted and adopted in the early stages of construction. Such work schedule shall be approved by the Engineer and Owner.

WORK NOT SHOWN ON PLANS AND DRAWINGS:

In the carrying out of this Work as contemplated by the Drawings and Specifications, there may arise certain items of work for which definite plans have not yet been decided upon. All such work when authorized shall be paid for as provided in Changes of the Work.

PERFORMANCE OF WORK BY CONTRACTOR:

The Contractor shall perform on the site and with his own organization, at least 50 percent of the total amount of the Work to be performed under this Contract. If, during the progress of the Work hereunder, the Contractor requests a reduction of such percentage, and the Engineer determines that it would be to the Owners advantage, the percentage of the labor required to be performed by the Contractor's own organization may be reduced; provided prior to written approval of such reduction is obtained by the Contractor from the Owner.

CONTRACTORS SUPERINTENDENT:

The Contractor shall continuously maintain the presence of a competent general superintendent on the worksite during the progress of the Work. Whenever a superintendent is not on the job supervising the Work even though his crew is there, the Engineer shall have authority to stop the Work until the superintendent returns.

SUBCONTRACTOR:

The Contractor shall, as soon as practicable after the execution of the Contract, and before any subcontracts are awarded, notify the Engineer in writing of the names of the Subcontractors proposed to be used on the various parts of the Work.

When the names of the Subcontractors are submitted for approval, the Contractor shall give the Engineer the name and quality of the material and the name of the manufacturer of the material which the Subcontractor proposes to use.

No Subcontract shall be awarded until the Contractor has received approval in writing from the Engineer on the proposed Subcontractor.

The Contractor agrees that he is fully responsible to the Owner for the acts and omissions of persons directly employed by him.

Nothing contained in the Contract documents shall create any contractual relationship between the Subcontractor and the Owner.

INSPECTORS:

The Engineer will be represented by an inspector on the project. It shall be the Contractor's responsibility to notify the Engineer whenever work is to begin so that arrangements for inspection can be made. The inspector shall, while on the job, have the same authority as the Engineer and any instructions that he might give shall be carried out as if said instructions came directly from the Engineer.

INSPECTION:

The Engineer or his representatives, while observing work in progress on behalf of the Owner, will give the Contractor and subcontractors all possible assistance in interpreting the terms of the Contract. Such assistance shall not relieve the Contractor from responsibility for his work, in accordance with the Contract requirements and any work which proves faulty shall be made right by the Contractor.

Representatives of the Engineer are without authority to alter or relax the terms of the Contract. Any alterations or relation of terms of the Contract shall be valid only if made in accordance with the procedures set forth under Changes of the Work.

Upon request of the Contractor, decisions, instructions, or interpretations of the Engineer will be issued in writing. Any claim by the Contractor that all decisions, instructions, or interpretations are not within the scope of the Work, or that they entail cost beyond the scope of the Contract shall be made to the Engineer in writing and within five days of such ruling, and before the work involved is performed, otherwise interpretations are accepted without questions.

If any work should be covered up without approval or consent of the Engineer, if required by the Engineer, it must be uncovered for examination at the Contractors expense. Re-examination of questioned work may be ordered by the Engineer, and if so ordered, the work must be uncovered by the Contractor.

MATERIALS AND WORKMANSHIP:

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labor, tools, equipment, appliances, light, power, transportation and all facilities necessary for the proper execution and satisfactory completion of this Work.

Unless otherwise specified all materials shall be new and both materials and workmanship shall be of good quality. The Contractor shall furnish satisfactory evidence and quality of materials intended to be used, if required.

Should any dispute arise as to the quality or fitness of any materials or workmanship, the decision shall rest with the Engineer and shall be based on the requirements that all material furnished and all work done shall be of good quality, and what might be usual and customary in the erection of other structures shall in no way enter into any consideration or decision.

It is not incumbent upon the Engineer to give the Contractor early notice of the rejection of faulty materials or workmanship or in any case to superintend to the extent of relieving the Contractor of responsibility for any consequence of neglect or carelessness of himself or of his subordinates. All materials and labor shall be delivered and furnished at such time as shall be for the best

interest of all concerned to the end that the combined work of all may be properly and fully completed on time.

POSSESSION OF SITE AND RESPONSIBILITY:

Upon taking possession of the site, the Contractor shall be responsible thereafter until the final acceptance of the Work by the Owner for the management, care and maintenance of the site and the Work both new and existing and shall be solely and wholly responsible for damage thereto and for any and all injury to persons or property incident to or on account of the execution of this Work and shall adjust all the claims or suits arising there from, without loss to the Engineer or the Owner. Any approval of means or methods of construction or protection of persons or property shall not relieve the Contractor from sole responsibility for the adequacy of such means or methods.

STORAGE OF APPARATUS AND MATERIALS:

All equipment and materials shall be stored in such manner as to insure the preservation of their quality and fitness for the Work. Materials stored shall be located so as to facilitate prompt inspection and shall be confined to space designated by the Engineer.

Should it become necessary at any time during the progress of the whole project to move materials which have been temporarily placed previous to their use in the construction, the Contractor shall when so directed by the Engineer or inspector move them without additional cost to the Owner.

PROPERTY CONFINES:

The Contractor has no authority to permit the use of any portion of the premises by anyone except for business connected with the construction in which his Contract is concerned.

CLEANING DURING CONSTRUCTION AND AT COMPLETION OF WORK:

The Contractor shall keep the premises clean at all times and shall remove all rubbish as often as directed by the Engineer and Owner. If the Contractor does not at all times provide men to attend to the cleaning up, on request, in a manner acceptable to the Engineer, the Engineer may employ such men direct and charge the cost of same to the account of the Contractor.

CHANGES OF THE WORK:

The Owner, without invalidating the Contract, may order extra work or make changes by altering, adding to, or deducting from the Work, the Contract sum being adjusted accordingly. All such work shall be executed according to the conditions of the original Contract, except that any claim for extensions of time caused thereby shall be adjusted at the time of ordering such changes.

In giving instructions, the Engineer shall have authority to make any minor changes in the Work, not involving extra cost, and not inconsistent with the purpose of the construction. But otherwise except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order from the Engineer stating that the Owner has authorized extra work or changes, and no claim for an addition to the Contract sum shall be valid unless so ordered.

The value of such extra work or change shall be determined by one or more of the following methods, at the option of the Owner:

- (1) By estimate and acceptance in a lump sum.

- (2) By unit prices named in the Contract or subsequently agreed upon.
- (3) By cost percentage
- (4) By cost plus a fixed fee

If none of the above methods are agreed upon, the Contractor, provided he receives an order as above, shall proceed with the work. In such case and also under cases (3) and (4) he shall keep and present in such form as the Engineer may direct, a correct amount of the net cost of materials, and labor, together with vouchers. In any case, the Engineer shall certify to the amount including reasonable allowance for overhead and profit due to the Contractor. Pending final determination of value, payments on accounts of changes shall be made on certificate of Engineer.

OWNERS RIGHT TO DO WORK:

If the Contractor shall neglect to prosecute the Work properly, and in a diligent manner or fail to perform the provisions of the Contract, the Owner may, after three days written notice to the Contractor, without prejudice to any other remedy, make good such deficiencies and may deduct the net cost thereof from the payment then or thereafter due the Contractor provided however, the Engineer shall approve both such actions and the amount charged to the Contractor.

ASSIGNMENT:

Neither party to the Contract shall assign the Contract or sublet it as a whole without the written consent of the other, nor shall the Contractor assign any monies due, or to become due, hereunder, without the previous consent of the Owner.

RIGHT OF OWNER TO TERMINATE CONTRACT:

In the event that any of the provisions of this Contract are violated by the Contractor, or by any of his subcontractors, the Owner may serve written notice upon the Contractor and the Surety of its intention to terminate the Contract, and unless within ten (10) days after the serving of such notice upon the Contractor, such violation or delay shall cease and satisfactory arrangement of correction be made, the Contract shall, upon the expiration of said ten (10) days, cease and terminate. In the event of any such termination, the Owner shall immediately serve notice thereof upon the Surety and the Contractor and the Surety shall have the right to take over and perform the Contract; provided, however, that if the Surety does not commence performance thereof within ten (10) days from the date of the mailing to such Surety of notice of termination, the Owner may take over the Work and prosecute the same to completion by contract or by force account and at the expense of the Contractor and the Contractor and his Surety shall be liable to the Owner for any excess cost occasioned the Owner thereby, and in such event the Owner may take possession of and utilize in completing the Work, such materials, appliances and plant as may be on the site of the Work and necessary therefore.

EXTENSION OF TIME:

Should the Contractor be delayed at any time due to causes beyond his control or due to extra work ordered by the Owner, the Contractor shall within seven (7) days of such delay request extension of time from the Engineer who shall decide if the Contractor has sufficient grounds for an extension and how much time is to be granted.

TIME FOR COMPLETION AND LIQUIDATED DAMAGES:

It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the date of beginning, rate of progress and the time for completion of the Work to be done hereunder are ESSENTIAL CONDITIONS of this Contract; and it is further mutually understood and agreed that the Work embraced in this Contract shall be commenced on a date to be specified in the Notice To Proceed. The Contract time shall apply to the period from the Notice to Proceed until the time of Substantial Completion. Substantial Completion is the degree of construction completion at which the Work can be used for its intended purpose.

The Contractor agrees that said Work shall be prosecuted regularly, diligently, and uninterrupted at such rate of progress as will insure full completion thereof within the time specified.

It is expressly understood and agreed, by and between the Contractor and the Owner, that the time for the completion of the Work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

It is further agreed that time is of the essence of each and every portion of this Contract and of the Specifications wherein a definite and certain length of time is fixed for the performance of any act whatsoever, and where, under the Contract, an additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be of the essence of this Contract. Provided, that the Contractor shall not be charged with liquidated damages or any excess cost when the delay in completion of the Work is due:

- (1) To any preference, priority, or allocation order duly issued by the government.
- (2) To unforeseeable cause beyond the control and without the fault of negligence of the Contractor, including, but not restricted to acts of God, or of the public enemy, acts of the owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; and
- (3) To any delays of subcontractors occasioned by any of the causes specified in subsections (1) and (2) of this article.

Provided, further that the Contractor shall, within seven (7) days from the beginning of such delay, notify the Owner, in writing, of the causes of the delay, who shall ascertain the facts and extent of the delay and notify the Contractor within a reasonable time of his decision in the matter.

LICENSE:

The Contractor shall be required to have during the life of the Contract a current City of Valdosta Occupational Tax Certificate/Business License for the work he will perform.

BOND REQUIREMENTS:

All bonds must be submitted on forms provided by an insurance company licensed in the State of Georgia. Payment and Performance Bonds shall be submitted in quadruplicate.

CONTRACTORS INSURANCE:

Said project shall be constructed and maintained at the sole risk of the Contractor and the Contractor agrees, without regard to negligence on the part of City to save the City, and to hold the City harmless from and against all claims, damages, expense and liability (whether or not such liability has been judicially determined) for loss of life, personal injury or damage to property,

resulting from or in any manner attributable to the construction, maintenance, use, operation or presence of the project, or to the presence of the equipment or employees of Contractor, on City's property.

The Contractor shall carry Workmen's Compensation Insurance and shall have all subcontractors carry Workmen's Compensation Insurance and shall carry Comprehensive Liability Insurance covering all operations and vehicles.

The Contractor shall name the City of Valdosta as an additional insured party on all insurance policies.

The Contractor shall submit Certificates of Insurance showing minimum coverage as follows:

- | | | |
|-----|---|---------------------------|
| (1) | Workmen's Compensation - As required by State Law | |
| (2) | Comprehensive General Liability | |
| | (a) | Each Person \$ 500,000 |
| | (b) | Each Occurrence 1,000,000 |
| (3) | Vehicle Liability | |
| | (a) | Each Person 300,000 |
| | (b) | Each Occurrence 500,000 |
| (4) | Property Damage Insurance | |
| | 200,000 | |

SOCIAL SECURITY AND SALES TAXES:

The Contractor shall be liable for all state and Federal Payroll or Social Security and Sales and Use Taxes that are in force at the time of the award of the Contract except taxes the City may be exempt from.

LIENS:

Neither the final payment or any part of the retained percentage shall become due until the Contractor, if required, shall deliver to the Owner a complete release of all liens arising out of this Contract, or receipts in full in lieu thereof, and, if required in either case, an affidavit that insofar as he has knowledge or information, the releases and receipts include all the materials and labor for which a lien might be filed, but the Contractor may, if any subcontractor refuses to furnish a release of claims or receipts in full, furnish a bond satisfactory to the Owner to indemnify him against any lien. If any lien should remain unsatisfied after all payments are made then the Contractor shall refund to the Owner all monies that the latter may be compelled to pay in discharging such lien, including all costs and reasonable Attorney's fees.

MAINTENANCE:

The Contractor will be required to maintain all work done by him in a functional condition for sixty (60) days after the same has been completed as a whole, and the Engineer has notified the Contractor in writing that the Work has been finished and finalized to their satisfaction. The retained percentage will not be due to the Contractor until after the 60 days maintenance period but may be payable to the discretion of the Engineer. Any damage to the site or surroundings

whether it be existing before construction or whether it be materials or items of construction shall be repaired by the Contractor at his expense and all parts of the site shall be left in as good repair as before the work started.

GUARANTEE:

The Contractor shall guarantee all materials and workmanship for a period of one (1) year from the date of final acceptance of the Work by the Engineer. If during this period any material or item of construction proves defective, the Contractor shall repair the same at his expense to the satisfaction of the Owner and guarantees shall be covered by Performance Bond. Neither the final certificate of payment nor any other provision relieves the Contractor of the responsibility for faulty materials or workmanship.

ACCEPTANCE:

When the Work has reached the point of Substantial Completion and can be used for its intended purpose, the Contractor shall notify the Engineer to this effect and shall request a final inspection. No work shall be accepted until the final inspection has been made and the job approved by the Engineer. Within ten (10) days after the final inspection the Engineer shall inform the Contractor in writing of the acceptance or rejection of the job and if the job is accepted the maintenance and guarantee periods will begin from this date.

PATENTS AND ROYALTIES:

The Contractor shall forever protect and defend the Owner against all demands whatsoever, involving the full and free use and enjoyment of any and all rights to any invention, machine or device, which may be applied as a part of the work, either in the construction or after construction. The Contractor shall notify the Owner in writing as to any such demands on the above rights upon which the Contractor may have to pay any royalties.

ACCIDENT PREVENTION:

Precautions shall be exercised at all times for the protection of persons (including employees) and property, and hazardous conditions shall be guarded against or eliminated. The foregoing shall be as indicated by the Engineer if it becomes necessary.

ESTIMATE:

At least 30 days before each progress payment falls due, the Contractor shall submit a detailed estimate of the Amount Earned during the preceding month for the separate portions of the Work, and request payment. The words Amount Earned means the value completed as of the date of the estimate for partial payment of the Work in accordance with the Contract Documents including the value of approved materials delivered to the project site suitably stored and protected prior to incorporation into the Work.

The Engineer will, after receipt of each request for payment, recommend payment or return the request to the Contractor indicating the reasons for refusing to recommend payment. In the latter case, the Contractor may, within 7 days, make the necessary corrections and resubmit the request.

The Engineer may refuse to recommend the whole or any part of any payment because:

- (1) The work is defective, or completed work has been damaged requiring correction or replacement;

- (2) Written claims have been made against Owner or Liens have been filed in connection with the Work;
- (3) The Contract price has been reduced because of Change Orders;
- (4) The Contractor's unsatisfactory prosecution of the work in accordance with the Contract documents; or
- (5) Contractor's failure to make payment to Subcontractors or for labor, materials, or equipment.

DEDUCTION FROM ESTIMATE:

The Owner will deduct from the estimate, and retain as part security, 5 percent of the amount earned for work satisfactorily completed. A deduction and retainage of 5 percent will be made on the estimated amount earned for approved items of material delivered to and properly stored at the job site but not incorporated into the Work.

QUALIFICATION FOR PARTIAL PAYMENT AND MATERIALS DELIVERED:

Qualification for partial payment for materials delivered but not yet incorporated into the Work shall be as described below:

- (1) Materials, as used herein, shall be considered to be those items which are fabricated and manufactured material and equipment. No consideration shall be given to individual purchases of less than \$200 for any one item.
- (2) To receive partial payment for materials delivered to the site, but not incorporated in the Work, it shall be necessary for the Contractor to include a list of such materials on the Partial Payment Request. At his sole discretion, the Engineer may approve items for which partial payment is to be made. Partial payment shall be based on the Contractor's actual cost for the materials as evidenced by invoices from the supplier. Proper storage and protection shall be provided by the Contractor, and as approved by the Engineer. Final payment shall be made only for materials actually incorporated in the Work and, upon acceptance of the Work, all materials remaining for which advance payments had been made shall revert to the Contractor, unless otherwise agreed, and partial payments made for these items shall be deducted from the final payment for the Work.
- (3) Contractor warrants and guarantees that title to all work, materials, and equipment covered by any Application for Payment, whether incorporated in the project or not, will pass to Owner at the time of payment free and clear of all liens, claims, security interests, and encumbrances.
- (4) If requested by the Engineer, the Contractor shall provide with subsequent pay requests, invoices receipted by the supplier showing payment in full has been made.

PAYMENT:

After deducting the retainage and the amount of all previous partial payments made to the Contractor from the amount earned, the amount due will be paid to the Contractor.

END OF SECTION

SPECIAL PROVISIONS

Location of Resurfacing Work: The location of the work is within the City of Valdosta, more specifically: along Lakeland Avenue from Melrose Drive to Barack Obama Boulevard and the area immediately south on City owned lands.

Clarifications and Special Conditions:

1. The Owner shall adjust the line item quantities as required to bring project cost to within the available funding.
2. In addition to the Pre-Construction Meeting, the Contractor shall establish a regular schedule for monthly project status meetings with City Engineering Department staff.
3. Contractor shall be responsible for cleanup and repair of asphalt trailings and other damages on City streets, both streets included in this project and city streets impacted by transport of materials.

Description of Work:

The Lakeland Avenue Drainage Improvement work consists of the following:

- Stormwater drainage improvements along +/- 2000 linear feet of Lakeland Avenue including curb and gutter, storm pipes and sidewalks
- Dredging of the existing channel of One Mile Branch
- Construction of a 1.25-acre regional stormwater pond to the west of One Mile Branch
- Construction of a 0.5-acre stormwater pond behind the Senior Center

The work includes demolition and removal of designated areas of asphalt pavement, concrete pavement, root removal, and curbing; milling of designated areas of existing asphalt pavement; cleaning of existing pavement to be resurfaced; repair and patching of the areas of removed pavement and concrete; resurfacing including tack coat and leveling course; adjustment of existing manholes and valves/valve boxes to the new finished pavement grade; application of painted and thermoplastic pavement striping and markings, sanitary sewer installation and all related work.

Schedule of Work: The Contractor shall submit a schedule of work to the City Engineer's office before construction begins. Times of construction shall be 8:00 AM to 6:00 PM Monday through Friday and 9:00 AM to 4:00 PM on Saturday.

Notice to Proceed: Upon written notice by the City Engineer, work will begin immediately.

Time of Contract: The Contractor shall start upon notice to proceed by the City Engineer and shall have **300 consecutive calendar days** to complete the work. In the event the Contractor shall not complete the work within the time limit, or

extended time limit agreed upon, **liquidated damages shall be paid to the Owner at the following rate of \$250.00 per day.**

Construction Standards: All construction shall be in accordance with the latest edition of the Georgia Department of Transportation Standard Specifications – Construction of Transportation Systems, the City of Valdosta Standard Specifications for Water and Sewer Construction, , and the City of Valdosta Land Development Regulations.

Accident Prevention: Precautions shall be exercised at all times for the protection of persons (including employees) and property, and hazardous conditions shall be guarded against or eliminated. The foregoing shall be as indicated by the Engineer if it becomes necessary.

Use of Premises: The Contractor shall confine his work, the storage of materials, and the operation of his workmen to the limits developed by laws, ordinances, permits or directions of the Engineer and shall not unduly encumber the premises with his materials.

Permits: The Owner shall obtain the necessary easements and permits for construction across public and private property, streets, etc.

The Contractor shall abide by all rules, regulations, and requirements of the Owner of such property in regard to the construction under the contract including the giving of notices, provisions for inspection, and employment of such methods of construction as may be required. Whenever additional costs are incurred due to such requirements, all such costs shall be included in the prices bid. No additional compensation will be allowed for such costs after award of the contract.

Work by City and Utilities: The Contractor shall be responsible for complying with the City requirements and shall pay for all required work in connection therewith whether performed by himself, the City, Utility Companies, or others.

Materials Furnished: All materials necessary under this contract and items listed in the proposal will be furnished and installed by the Contractor unless otherwise specified.

Delivery of Materials: The Owner will not be responsible for delays in delivery of materials. No extra compensation will be allowed because of resulting expense. This also refers to items not listed in the proposal and may be termed as extra work which may be added on the project site by the Engineer.

Moving Materials: If it becomes necessary at any time during the construction to move materials which are to enter into the construction, which materials have been temporarily placed, the Contractor or subcontractor shall, when so directed by the

Engineer move them or cause them to be moved without additional cost to the Owner.

Salvaged Materials: The Owner shall have the right of first refusal for any salvaged materials as a result of demolition on the project.

Owner's Option: In all cases where the choice of more than one make or style of material is specified, the final selection of material rests with the Owner. Where any difference occurs in price, such difference is to be given at the time bids are submitted. After the contracts have been signed, the Owner reserves the right to choose whichever material he desires assuming that the price increased thereto and approved, or other words to that effect, it is to be taken the same as if the choice of more than one material was specified and the selection will rest with the Owner the same as above.

Materials -Test: Materials furnished for all construction shall be subject to test at all times by the Engineer and any samples or specimens selected for test shall be furnished at no cost to the Owner. All tests shall be made by a recognized testing laboratory acceptable to the Engineer.

The following materials will be subject to test in accordance with the latest standards and tentative standards of the American Society for Testing Materials (ATM) and the Georgia Department of Transportation, Division for Test and Investigation: cement, sand, coarse aggregate, brick, pipe, concrete, asphalt, base, curing compound and any other material that is used. Compaction tests on new base related to the paving work shall be performed every three hundred (300) feet.

These tests shall be performed by an independent testing laboratory approved by the Engineer. The cost of tests of whatever nature shall be borne by the Contractor. No separate payment will be made for tests and all costs in connection herewith shall be included in the price bid for the applicable item.

Items Not Listed in Proposal: If some item of work is required which is not covered in the specifications or in the proposal, the City reserves the right to do these items with their own forces.

Traffic Control: The Contractor shall be responsible for placing construction signs, detour signs, and other traffic control devices to protect the motoring public and his work force while the work is being performed. This signage and traffic control shall be placed in accordance with the MUTCD, current edition.

Pre-construction Meeting: A general preconstruction meeting will be held at the offices of the City Engineer prior to the notice to proceed.

Lines and Levels: The Contractor is responsible for providing all surveying and staking.

Road Closures or Detours: If the Contractor selects to hire off duty law enforcement officers to control road closures or detours, he must first approach The City of Valdosta Police Department for employment, if an agreement cannot be made between the Police Department and the Contractor. Only then can the Contractor seek an outside law enforcement agency.



OPINION OF ATTORNEY

This is to certify that I have examined the attached Contract Documents, that after examination, I am of the opinion that such documents conform to the laws of the State of Georgia, that the execution of the Construction Contract and the Contract Performance and Payment Bonds are in due and proper form, and that the representatives of the respective contracting parties have full power and authority to execute such Construction Contract and Contract Performance and Payment Bonds on behalf of the respective contacting parties and that the foregoing agreements constitute valid and binding obligations on such parties.

Attorney for
City of Valdosta, Georgia

This the _____ day of _____, 20_____.

PUBLIC SYSTEMS

GENERAL AS-BUILT REQUIREMENTS:

1. All as-builts for projects are required to be on 24" x 36" paper, and shall bear the name, address, and telephone number of the firm preparing the drawing and the date the as-built data is added to the original via the revision block. Two (2) sets of paper plans and Two (2) electronic copies (one (1) PDF file and one (1) DWG file) of the plans are required to be submitted. The electronic AutoCAD drawing files shall be referenced to Georgia State Plane Coordinates, West Zone (NAD 83, current adjustment) and NAVD 88.
2. Surveyor's statement (with seal and with an original signature on each sheet) shall verify that as-built drawings reflect the true conditions in the field or Engineer's statement (with seal and an original signature on each sheet) shall state that the project will function as was originally intended on the approved construction plans.
3. Contractors' statement (with an original signature on each sheet) shall verify that all construction specifications and product qualities have been met or exceeded.
4. "AS-BUILT DRAWING" or "RECORD DRAWING", the name of the project and the date shall be clearly labeled on each sheet.
5. Street names shall be on all streets. All easements and right-of-ways shall be shown and clearly labeled.
6. If the utility system is to be private (not to be dedicated to City), then so state on each sheet.
7. The location and elevation of the benchmark referenced will be shown on the drawing. If the referenced benchmark is not within the project, then a complete description of its location will be provided to assist in future locating.
8. The locations and description of any utility lines and other installations of any kind or other description known to exist within the construction area. The location includes dimensions to permanent features. The construction area is defined as the area on site that is disturbed.
9. The locations and dimensions of any changes to buildings and structures.
10. Correct grade and alignment of roads.
11. Changes in details of design or additional information such as approved placement details, pipe sizes, material changes, etc.

PUBLIC SYSTEMS

WATER SYSTEM AS-BUILT REQUIREMENTS:

1. Locate valves, fittings, and services that are located within the City right-of-way or easement by labeling each with Northings and Eastings. All fire lines, fire hydrants, and fire appurtenances shall be located.
2. All horizontal distances shall be shown to the nearest hundredth of a foot (i.e., 56.30'). All vertical distances shall be shown to the nearest hundredth of a foot (i.e., 217.65').
3. Show all sizes and types of valves and pipes.
4. Special detail drawings may be required where installations are not shown on approved construction drawings for whatever reason or where required for clarity.
5. Show location and elevations on pipes and fittings where changes in direction occur and at a maximum of every 100'.
6. Typical water service installation details with deviations from original plans shall be noted on as-built drawings.

SANITARY SEWER SYSTEM AS-BUILT REQUIREMENTS:

1. All piping, wyes, tees, valves, manholes and special cases shall be located in the same manner as water locations.
2. Horizontal dimensions shall be to the nearest hundredth of a foot (i.e., 78.60'). Vertical dimensions shall be to the nearest hundredth of a foot (i.e., 217.65').
3. Identify runs of gravity mains (i.e., 300.4 feet of 8" PVC SDR 35 at 0.4%).
4. Elevations shall be given for the top of all manhole covers and for all inverts.
5. Service laterals are to be identified with location of end service or plug (Northing and Easting).
6. Manholes shall be identified by types.

PUBLIC SYSTEMS

FORCE MAINS AS-BUILT REQUIREMENTS:

1. Locate all valves, fittings, etc. as above.
2. Locations of pipe shall be shown at all changes in direction and at a maximum of every 100'.
3. Show all sizes and types of valves, fittings, pipe, etc.
4. Special detail drawings will be required where installations were not as shown on original drawings due to field conditions or where required for clarity.

PUMP STATION AS-BUILT REQUIREMENTS:

1. Wet well size and location shall be shown.
2. Elevations for top, bottom, inverts, adjacent ground and type and size of lines and fittings for all lines entering or leaving the wet well.
3. All schedules which show pump, motor and electrical data shall be amended and shall be submitted with wet well drawings.
4. All improvements within the pump station boundaries shall be located horizontally and vertically to the nearest hundredth of a foot (i.e., 5.62'), including valve pit, pump-out, water spigot, backflow device, wet well, control panel, bends, fittings, etc.).

DRAINAGE SYSTEM AS-BUILT REQUIREMENTS:

1. All drainage structures shall be located by northing and easting as above. Any deviations from construction plans shall be noted on as-built.
2. Provide the type of drainage structure (e.g., 1033, 1019, D.I.) along with elevations on the top, weir, and invert.
3. Identify size, material, and slope of all piping. Identify end treatment of all open ended pipes (i.e., headwall type and material, FES, SES, etc.)
4. All improvements, structures, pipe ends, grates, boxes, etc. shall be located horizontally and vertically to the nearest hundredth of a foot (i.e., 5.62')
5. Any utility conflicts less than 18" of vertical separation shall be shown, to include type of utility, direction and elevation.

PUBLIC SYSTEMS

6. Provide spot elevations and cross sectional information at 100' intervals and at any deviation in channel as well as slopes, on all ditches, canals, etc.
7. Show all drainage easements, including width and encroachments on those easements along with owner of record.
8. Show one foot contour lines of detention or retention facilities along with spot elevations on top of bank, emergency overflows, water stage and bottom of pond in front of the outlet control structure and the opposite end of facility to verify positive drainage.
9. Provide a detail of the outlet control structure, including: top elevations, inverts and sizes of weirs, spillways, orifices, outlet control pipe along with downstream pipe elevation and slope.
10. The Engineer shall provide a certification letter, signed and sealed, of the "as constructed" detention facility along with an as-built hydrology report and summary table indicating the as-built storm water facility produces a net zero increase, see Attachment A for sample certification letter.

STREETS, SIDEWALKS AND TRAILS SYSTEMS AS-BUILT REQUIREMENTS:

1. Show all right-of-way and easement lines, (e.g. right of way, easement width) clearly labeled.
2. Provide typical offset dimensions from property, right-of-way and easement lines.
3. Typical ramp or curb opening installation details that deviate from original plans shall be noted on as-built drawings.
4. Special detail drawings will be required where installations were not as shown on original drawings due to field conditions or where required for clarity.
5. State plane coordinates (NAD83, Georgia west zone) and elevation data (NAVD88) on all right-of- way monuments installed or encountered within the project.
6. Locate and describe all regulatory or warning signage and pavement markings within the project.
7. Location and species information on installed trees.

PUBLIC SYSTEMS

8. All irrigation lines, controllers, sprinkler heads, backflow devices, pressure reducing valves, meters, supply sources and tap locations shall be located to by Northing and Easting as above.
9. Location, type, material and reinforcement, height, drainage systems and foundation information of all retaining walls.
10. Note any changes to the alignment, either vertically or horizontally, of curb & gutter, sidewalk, pavers or any other surface improvement.
11. Provide center line crown elevations at approximately 100-foot stations and sags and crests, or as field conditions warrant.

PUBLIC SYSTEMS

Attachment "A"

SAMPLE

**ENGINEER'S CERTIFICATION
OF
DETENTION FACILITIES**

I, *John J. Smith, P.E., Director of Water Resources for Professional Consulting Engineers*, a registered professional engineer in the state of Georgia, hereby certify with my signature and seal that the detention facility in the project known as *Kings Lake Subdivision, lying in land lot/lots 509 of the 18th district*, Lowndes County, has been constructed in conformance with the approved site plan and hydrology study, Specifically, but not limited to, detention pond volume, elevation of earthen dam or top of wall, and size and elevation of weir openings.

Professional Consulting Engineers, Inc.,

Signature: _____

*John J. Smith, P.E.
Director of Water Resources*

This 19th day of April 2012.

Georgia Registration No. 220X0

Stamp & Seal:

TITLE VI ASSURANCES

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest

(hereinafter referred to as the "Contractor"), agree as follows:

1. Compliance with Regulations

The Contractor shall comply with the Regulations relative to nondiscrimination in federally-assisted programs of the Department of Transportation (hereinafter referred to as DOT), Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

2. Nondiscrimination

The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, sex, or national origin in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

3. Solicitations for Subcontracts, Including Procurement of Materials and Equipment

In all solicitations either by competitive bidding or negotiations made by the Contractor for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the ground of race, color, sex, or national origin.

4. Information and Reports

The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the City of Valdosta or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations, orders, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the City of Valdosta, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance

In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, the City of Valdosta shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

- a. Withholding of payments to the Contractor under the contract until the Contractor complies; and/or
- b. Cancellation, termination, or suspension of the contract, in whole or in part.



**CONTRACTORS
STATUTORY AFFIDAVIT**

STATE OF _____ COUNTY OF _____

FROM: _____
(Contractor)

TO: _____
(Owner)

RE: Contract entered into the _____ day of _____, 20____, between the
above mentioned parties for the construction of a

KNOW ALL MEN BY THESE PRESENTS:

1. The undersigned hereby certifies that all work required under the above contract has been performed in accordance with the terms thereof, that all material, men, subcontractors, mechanics, and laborers have been paid and satisfied in full and that there are no outstanding claims of any character arising out of the performance of the contract which have not been paid and satisfied in full.
2. The undersigned further certifies that to the best of his knowledge and belief there are no unsatisfied claims for damages resulting from injury or death to any employees, subcontractors, or the public at large arising out of the performance of the contract, or any suits or claims for any other damage of any kind, nature, or description which might constitute a lien upon the property of the Owner.
3. The undersigned makes this affidavit as provided by law and for the purpose of receiving final payment in full settlement of all claims arising under or by virtue of the contract, and acceptance of such payment is acknowledged as a release of the Owner from any and all claims arising under or by virtue of the contract.

IN WITNESS THEREOF, the undersigned has signed and sealed this instrument this _____ day of _____, 20____

(Contractor) _____

personally appeared before the undersigned, _____
who after being duly sworn, depose(s) and say(s) that the facts stated in the above affidavit are true.

(Notary Public)

This _____ day of _____, 20____ My commission expires _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, _____

_____ (hereinafter called the

Principal), and _____

(Hereinafter called the Surety, a corporation chartered and existing under the laws of the State of _____ with its principal offices in the City of _____, in the full and just sum of _____ Dollars (\$_____) good and lawful money of the United States of America, to be paid upon demand of the City of Valdosta, Georgia to which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally and firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted to the City of Valdosta, Georgia a proposal for furnishing materials and labor and constructing certain improvements on _____ for the said City of Valdosta, and,

WHEREAS, the Principal desires to file this bond in accordance with the law, in lieu of a certified bidder's check otherwise required to accompany this proposal.

NOW, THEREFORE: The conditions of this obligation are such that if the proposal be accepted, the Principal shall within ten (10) days after receipt of notification of the acceptance thereof execute a contract in accordance with the Proposal and upon the terms, conditions and prices set forth therein, in the form and manner required by the City of Valdosta, Georgia, and execute a sufficient and satisfactory performance bond and payment bond payable to the City of Valdosta, Georgia, each in an amount of one hundred percent (100%) of the total contract price, in form and with security satisfactory to said City of Valdosta, then this obligation to be void; otherwise, to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principle to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the aforesaid City of Valdosta, Georgia, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

IN TESTIMONY THEREOF, the Principal and Surety have caused these presents to be duly signed and sealed this _____ day of _____, 20_____.

Principal

Surety

By _____ (Seal) _____ (Seal)

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____

As Principal, and _____
as Surety, are held and firmly bound unto the City of Valdosta, Georgia in the full sum of _____ Dollars (\$_____). for the use and protection of the said City of Valdosta and all subcontractors and all persons supplying labor, materials, machinery and equipment for the performance of the work provided for in the contract hereinafter referred to, for the payment of which well and truly to be made we find ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, by these presents.

WHEREAS, the above bound Principal has entered into a contract with the City of Valdosta, Georgia dated the _____ day of _____, 20____, designated as Contract No. _____.

NOW THEREFORE, the conditions of this obligation are such that if the above bound Principal shall promptly pay all subcontractors and all other persons supplying labor, materials, machinery and equipment furnished for the performance of the work provided for by said contract and such alterations or additions as may be made therein or in the plans and specifications, then this bond to be void; otherwise of full force and effect.

And the Surety to this Bond, for value received, agrees that no change, extensions of time, alterations or additions to the terms of the contract or to the work to be performed there under or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alterations or additions to the terms of the contract or the work to the plans and specifications.

It is agreed that this bond is executed pursuant to and in accordance with the provisions of Section 23-1705, et. Sep. of the Code of Georgia, as amended by the Act approved February 27, 1956, and is intended to be and shall be construed to be a bond in compliance with the requirements thereof.

IN WITNESS WHEREOF, the principal and the Surety have caused these presents to be duly signed and sealed this ____ day of _____, 20____.

L.S. _____ L.S.

By _____

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____

_____ (hereinafter called the Principal), and

_____ (hereinafter called the Surety) are held and firmly bound unto the City of Valdosta, Georgia (hereinafter known as the Owner) for the use of said obligee and all persons doing work or furnishing skill, tools, machinery, supplies, or materials under or for the purpose of the contract hereinafter referred to, in full and just sum of

_____ Dollars (\$ _____) lawful money of the United States of America, to be paid to said City of Valdosta, Georgia, its successors, and assigns to which payment well and truly to be made we find ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above bounded Principal has entered into contract with the said Owner, bearing date of _____, 20_____, for construction _____ in the City of Valdosta, Georgia, Contract No. _____, more particularly mentioned:

WHEREAS, it was one of the conditions of the award by said Owner pursuant to which said contract was entered into, that these presents shall be executed.

NOW, THEREFORE: The conditions of this obligation are such that if the above bounded Principal shall in all respects fully comply with the terms and conditions of said contract and his obligations there under, including the Specifications, Proposal, and Plans therein referred to and made a part thereof, and such alterations as may be made in said plans and specifications as therein provided for, and including one year guarantee period from date of final acceptance, and shall indemnify and save harmless the City of Valdosta, Georgia, against and from all costs, expenses, damages, injury or loss to which the said Owner may be subject by reason of any wrong doing, misconduct, want of care or skill, negligence, or default, including patent infringement on part of said Principal, his agents or employees, in the execution or performance of said Contract and shall promptly pay all just claims for damages, or injury to property and for all work done, or skill, tools, and machinery, supplies, labor, and materials, furnished and debts incurred by said

Principal in or about the construction or improvements contracted for this obligation to be void, otherwise in full force and effect.

And the said Surety to this Bond, for value received, hereby stipulates and agrees that no change, extension of time, alterations or additions to the terms of the Contract or to the work to be performed there under or the specifications accompanying same shall in any wise affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alterations or addition to the terms of the contract or to the work or to the specifications.

The Bond shall be for the use of all persons doing work or furnishing skill, tools, machinery, or materials under or for the purpose of this Contract, in accordance with the provisions of Section

23-1705 et. Sep. of the Code of the State of Georgia, as amended by the Act approved February 27, 1956, and is intended to be and shall be construed to be a bond in compliance with the requirements thereof.

The life of this Bond extends through the life of the Contract including the sixty-day maintenance period, and until one year after the final acceptance of the work by the City of Valdosta.

IN TESTIMONY THEREOF, the Principal and Surety have caused these presents to be duly signed and sealed in quadruplicate, this _____ day of _____, 20____.

ATTESTED:

Contractor

By: _____

ATTESTED:

Surety

By: _____

Executed in Quadruplicate



ADDENDUM NUMBER ONE (1)

DATE

Project: _____

Owner: City of Valdosta, Georgia

Opening Date and Time: _____

SAMPLE

The deadline for turning in bids has been extended to March 2, 20xx, at 10:00 am. Public opening of bids will begin at 10:15 am. Additional requested information regarding this project will be provided in a later addendum.

Please be sure to acknowledge the receipt of this Addendum on your proposal form in the appropriate space provided.

Submitted,

Name

Title



NOTICE OF AWARD

To: CONTRACTOR NAME.
ADDRESS
ADDRESS

Project Description: PROJECT NAME

The OWNER has considered the BID submitted by you for the above-described WORK in response to its advertisement for BIDS.

You are hereby notified that your BID is accepted in the amount of \$ #####.

You are hereby required to execute the AGREEMENT, and within fourteen (14) calendar days from the date of this NOTICE to furnish the required Contractor's CERTIFICATION OF INSURANCE with a 30 day notice of cancellation and PERFORMANCE BOND.

If you fail to execute said AGREEMENT and to furnish said BOND and CERTIFICATIONS within fourteen (14) days from the date of this NOTICE, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of the NOTICE OF AWARD to the OWNER.

Dated this 9th day of June, 2023 .

CITY OF VALDOSTA, GEORGIA

CONTRACTOR

BY: _____
Benjamin O'Dowd

BY: _____

TITLE: City Engineer

TITLE: _____

DATE: _____

DATE: _____

END OF SECTION



ENGINEERING DEPARTMENT

NOTICE TO PROCEED

To: ATTN: name
contractor
address
city, state zip

Regarding: project name

You are hereby notified to commence WORK, in accordance with the CONTRACT agreement dated month day, year, on or before month day, year, and you are to complete the WORK within xxx consecutive calendar days thereafter. The date of substantial completion of the WORK is therefore month day, year.

City of Valdosta, Georgia

BY: _____
Benjamin O'Dowd, City Engineer

DATE: _____



CHANGE ORDER NUMBER ##

PROJECT: **Project Name**

OWNER/ENGINEER

City of Valdosta – Engineering Department
P. O. Box 1125
300 North Lee Street
Valdosta, GA 31603 - 1125

CONTRACTOR

company
address
address
city, state zip code

The contract amount prior to this change is \$ ###,###.##

The contract is modified as follows:

Description of change – quantity, item, unit costs, total costs per line item...

The contract amount is hereby INCREASED/DECREASED/UNCHANGED to \$ ###,###.##

The contract time is hereby CHANGED/UNCHANGED from _____ to _____.

The above changes are hereby:

Recommended:

by: _____
(Project Manager)

Title: _____

date: _____

Approved:

by: _____
(City Engineer/Owner)

Title: _____

date: _____

Approved:

by: _____
(Contractor)

Title: _____

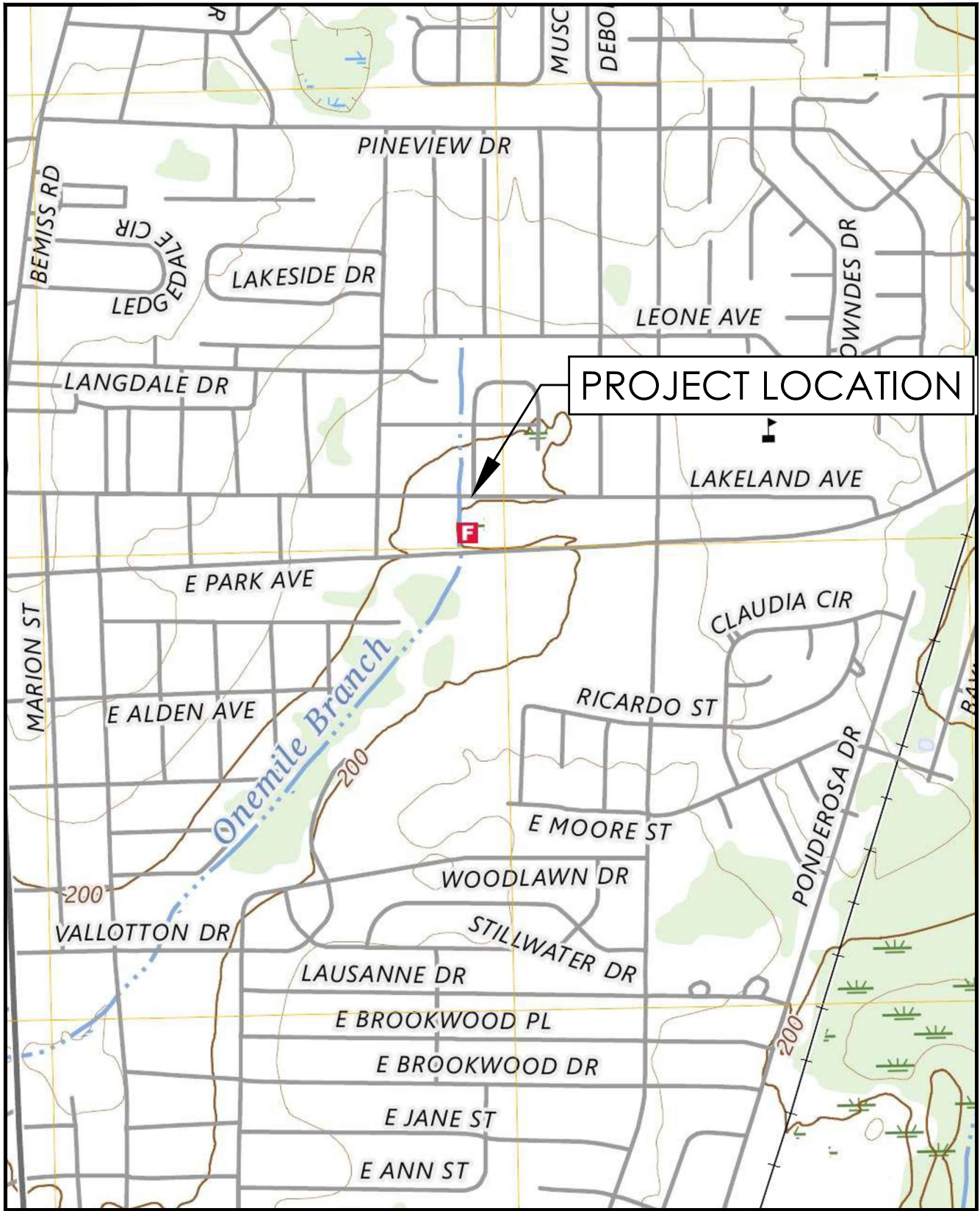
date: _____

This change order is hereby fully executed and in effect as of the latest date shown above.

LAKELAND AVENUE DRAINAGE IMPROVEMENTS



KEY CONTACT INFORMATION
CITY OF VALDOSTA - ENGINEERING DEPARTMENT: 229-259-3530
CITY OF VALDOSTA - UTILITIES DEPARTMENT: 229-259-3510
AFTER HOURS UTILITY CONTACT NUMBER: 229-434-4132



LOCATION MAP
SCALE: 1" = 1,000'

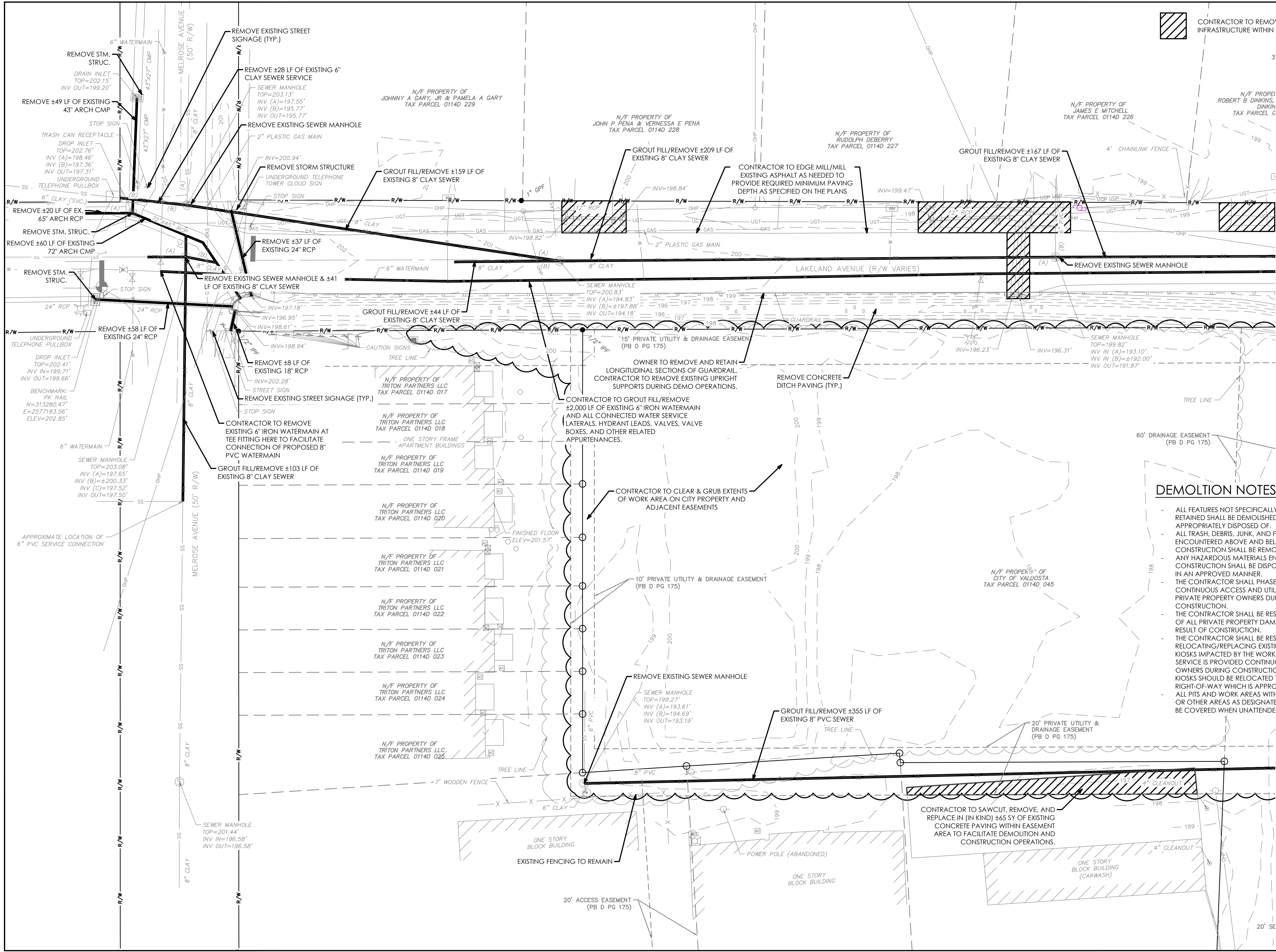
SHEET INDEX	
SHEET NO.	SHEET TITLE
1	COVER
2	EXISTING CONDITIONS & DEMO PLAN (1 OF 3)
3	EXISTING CONDITIONS & DEMO PLAN (2 OF 3)
4	EXISTING CONDITIONS & DEMO PLAN (3 OF 3)
5	ROAD PLAN & PROFILE (BEGIN - STA 5+00)
6	ROAD PLAN & PROFILE (STA 5+00 - STA 10+00)
7	ROAD PLAN & PROFILE (STA 10+00 - STA 15+00)
8	ROAD PLAN & PROFILE (STA 15+00 - END)
9	PARK AVENUE OUTFALL GRADING & DRAINAGE PLAN
10	DETAILED GRADING PLANS (1 OF 2)
11	DETAILED GRADING PLANS (2 OF 2)
12	LAYOUT & UTILITY PLAN (1 OF 2)
13	LAYOUT & UTILITY PLAN (2 OF 2)
14	SANITARY SEWER PLAN & PROFILE (1 OF 2)
15	SANITARY SEWER PLAN & PROFILE (2 OF 2)
16	ESPC PLAN (1 OF 2)
17	ESPC PLAN (2 OF 2)
18	ESPC NARRATIVE
19	ESPC DETAILS (1 OF 3)
20	ESPC DETAILS (2 OF 3)
21	ESPC DETAILS (3 OF 3)
22	CONSTRUCTION DETAILS (1 OF 3)
23	CONSTRUCTION DETAILS (2 OF 3)
24	CONSTRUCTION DETAILS (3 OF 3)



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS	
ISS	DATE
DRFT	9/10/25
DRFT	9/29/25

DRAFT
COVER
SHEET 1 OF 24



DEMOLITION NOTES:

- ALL FEATURES NOT SPECIFICALLY DENOTED TO BE SAVED OR RETAINED SHALL BE DEMOLISHED, REMOVED, AND APPROPRIATELY DISPOSED OF.
- ALL TRASH, DEBRIS, JUNK, AND FOREIGN OBJECTS ENCOUNTERED ABOVE AND BELOW GRADE DURING CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR.
- ANY HAZARDOUS MATERIALS ENCOUNTERED DURING CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED MANNER.
- THE CONTRACTOR SHALL PHASE THE WORK SUCH THAT CONTINUOUS ACCESS AND UTILITY SERVICE ARE PROVIDED TO PRIVATE PROPERTY OWNERS DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ALL PRIVATE PROPERTY DAMAGED DURING AND AS A RESULT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING/REPLACING EXISTING MAILBOXES AND DELIVERY KIOSKS IMPACTED BY THE WORK SUCH THAT MAIL DELIVERY SERVICE IS PROVIDED CONTINUOUSLY TO PRIVATE PROPERTY OWNERS DURING CONSTRUCTION. MAILBOXES AND DELIVERY KIOSKS SHOULD BE RELOCATED TO A LOCATION WITHIN THE RIGHT-OF-WAY WHICH IS APPROVED BY THE CITY.
- ALL PITS AND WORK AREAS WITHIN THE PUBLIC RIGHT-OF-WAY OR OTHER AREAS AS DESIGNATED BY THE CITY ENGINEER SHALL BE COVERED WHEN UNATTENDED.



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

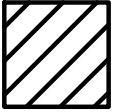
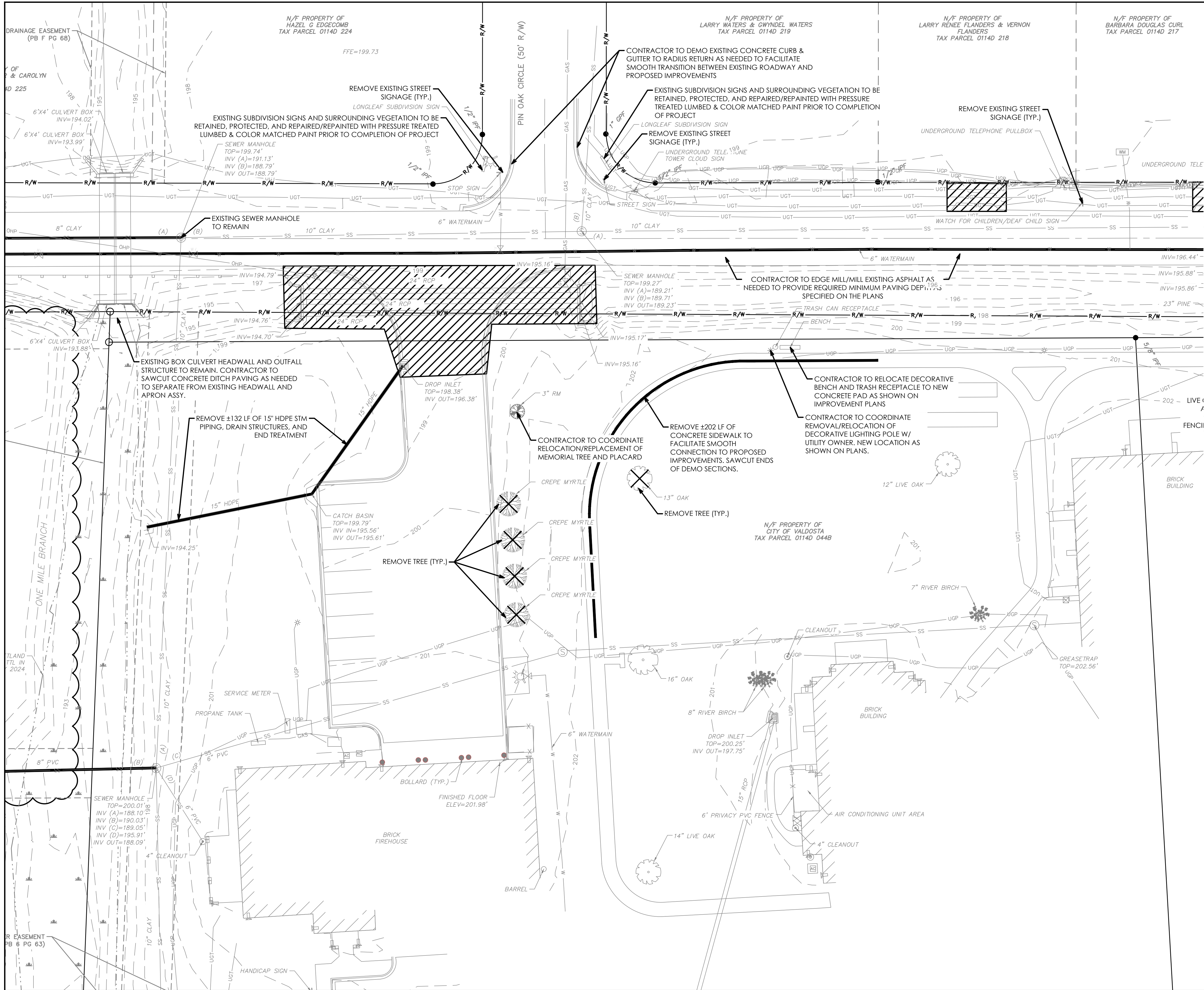
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DRFT	9/10/25
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EXISTING CONDITIONS
& DEMO PLAN
(1 OF 3)

DRAFT

C-1



CONTRACTOR TO REMOVE ALL DRIVEWAY AND DRAINAGE INFRASTRUCTURE WITHIN THE HATCHED AREA



CITY OF VALDOSTA
ENGINEERING DEPARTMENT

LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

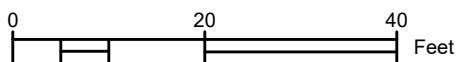
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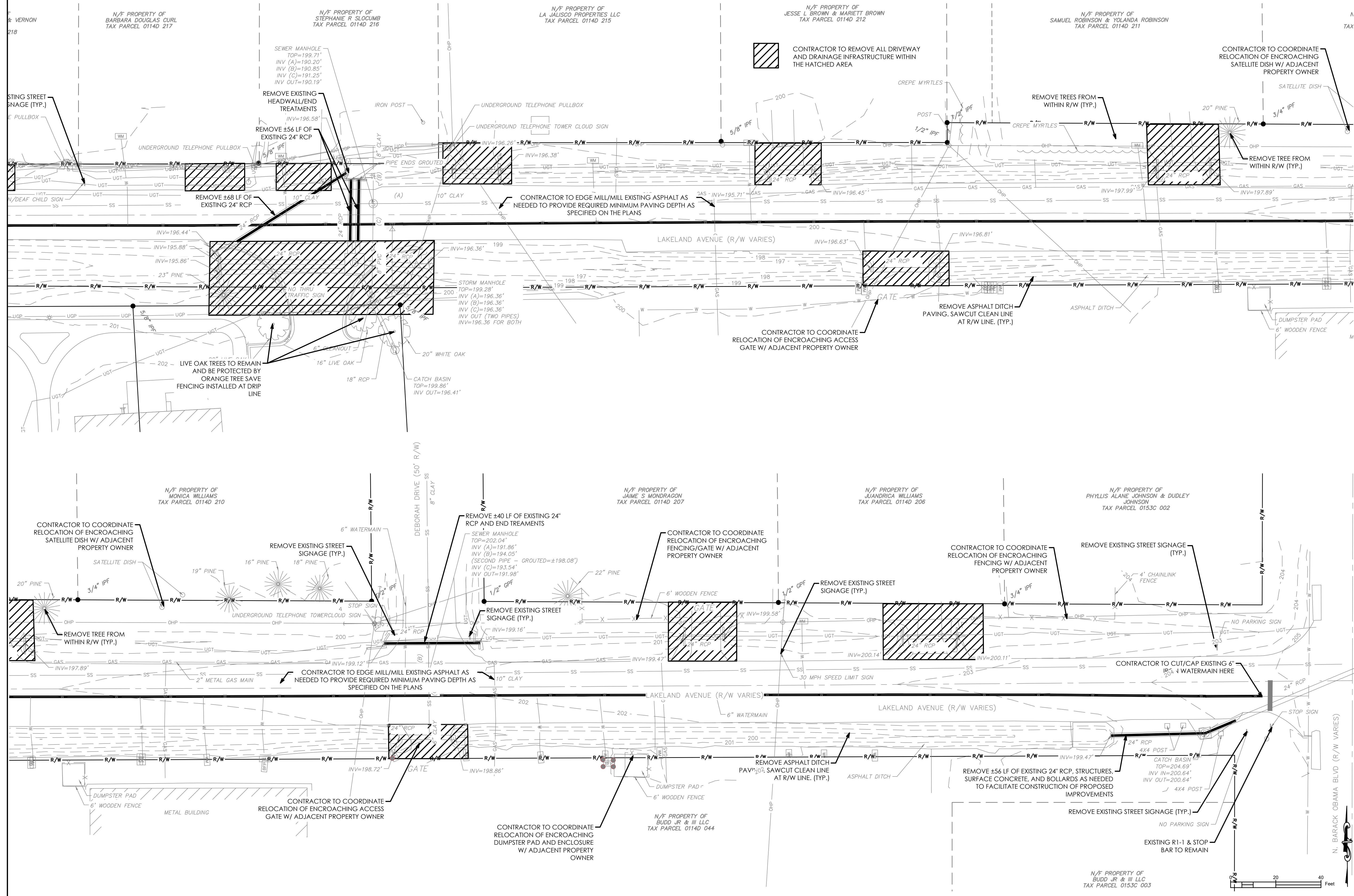
EXISTING CONDITIONS &
DEMO PLAN
(2 OF 3)

DRAFT

C-2

SHEET 3 OF 24







CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS	
ISS	DATE
DRFT	9/10/25
DRFT	9/29/25

EXISTING CONDITIONS & DEMO PLAN
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DRAFT

C-3
SHEET # OF 24



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

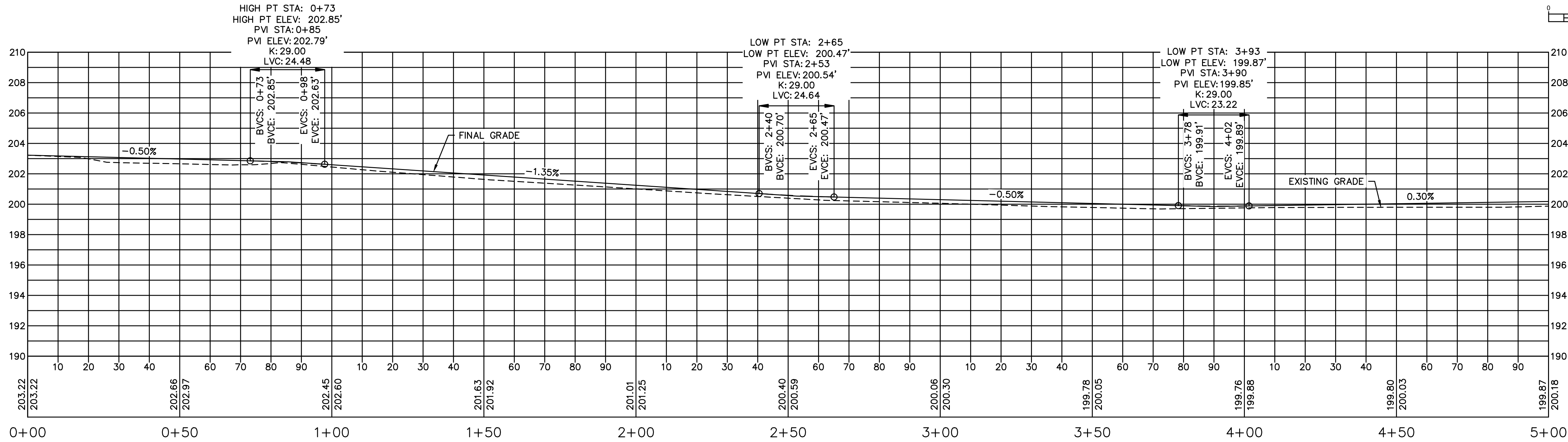
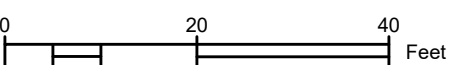
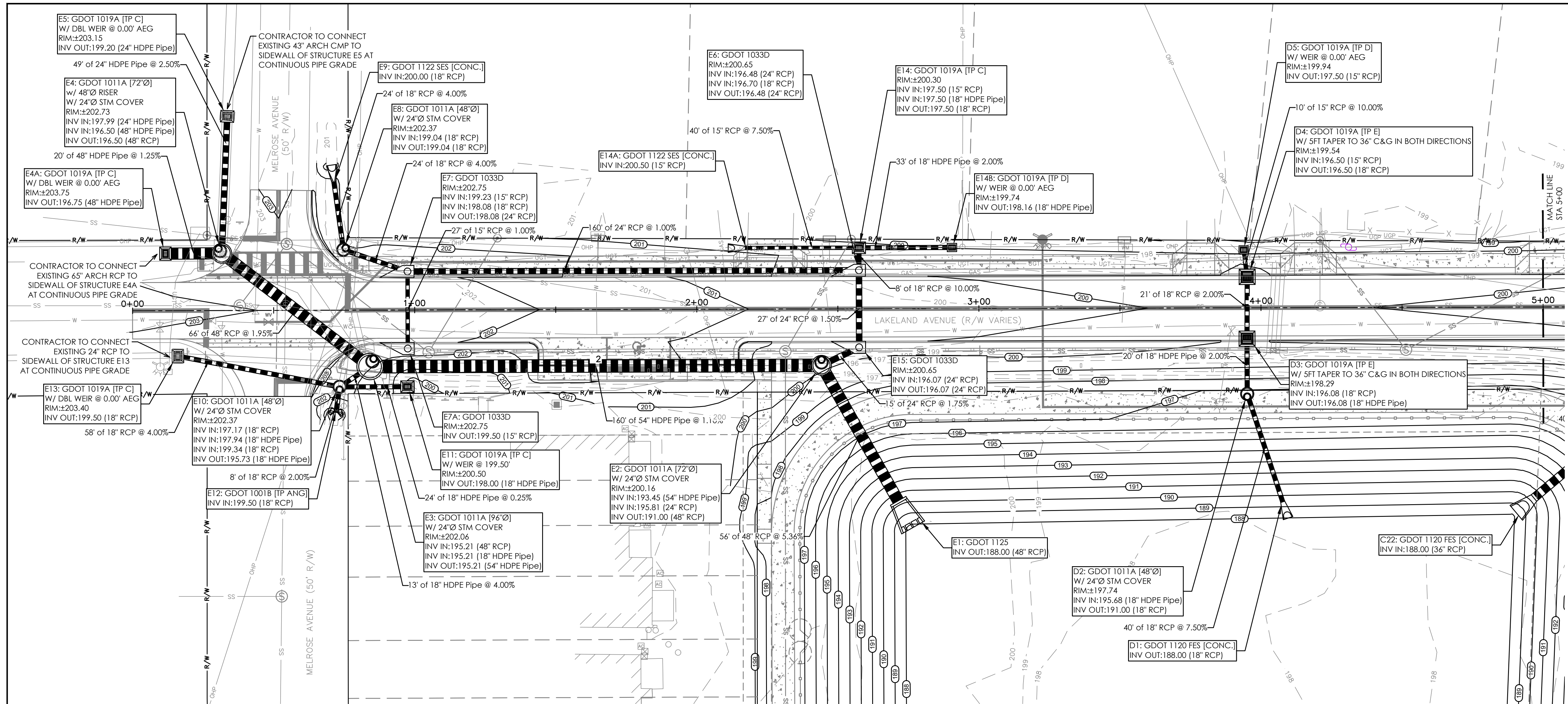
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ROAD PLAN & PROFILE
(BEGIN TO STA 5+00)

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C-4

SHEET # OF 24





CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

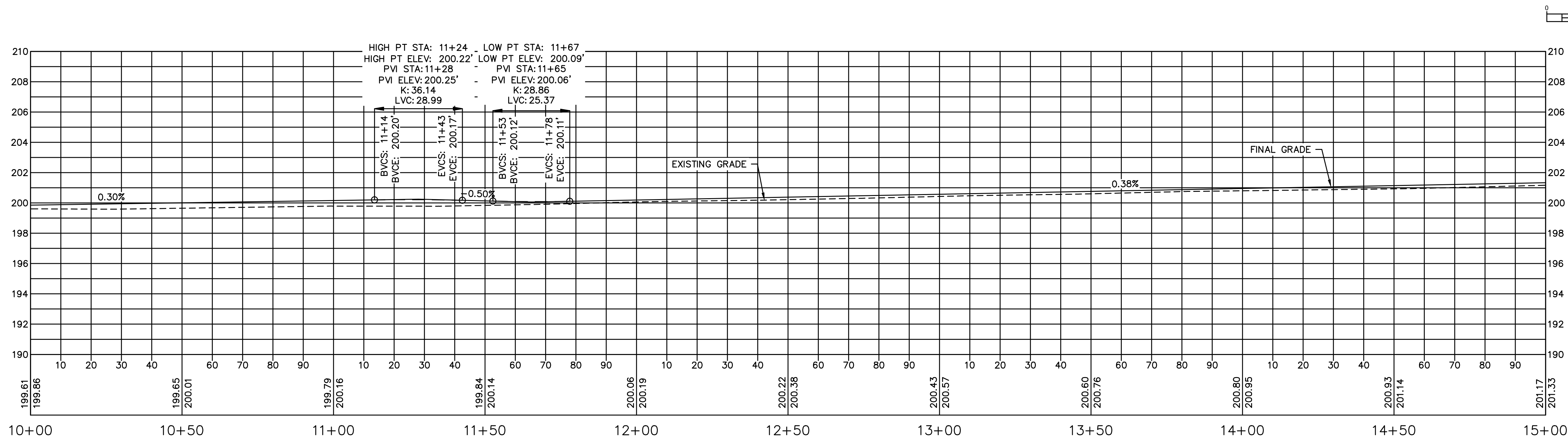
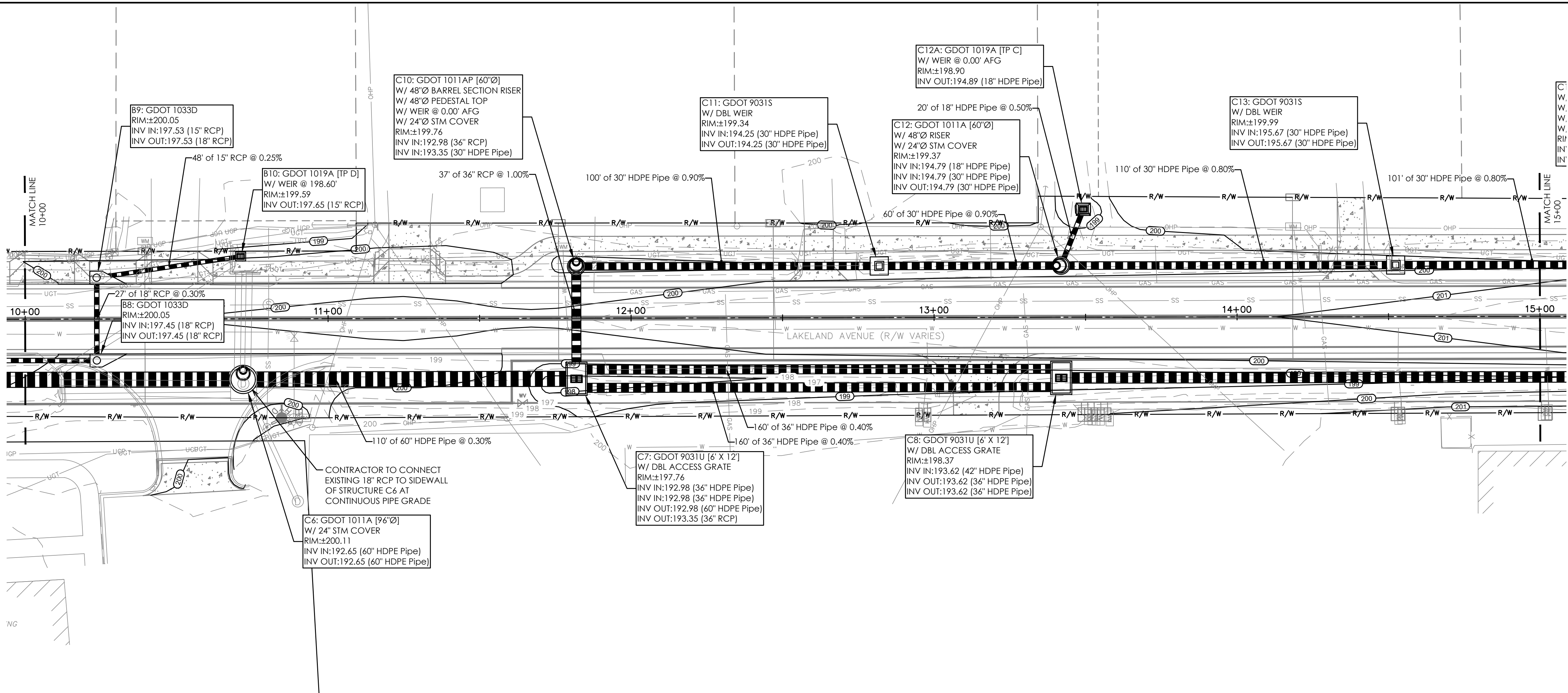
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ROAD PLAN & PROFILE
(STA 10+00 TO STA 15+00)

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C-6

SHEET 7 OF 24





CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

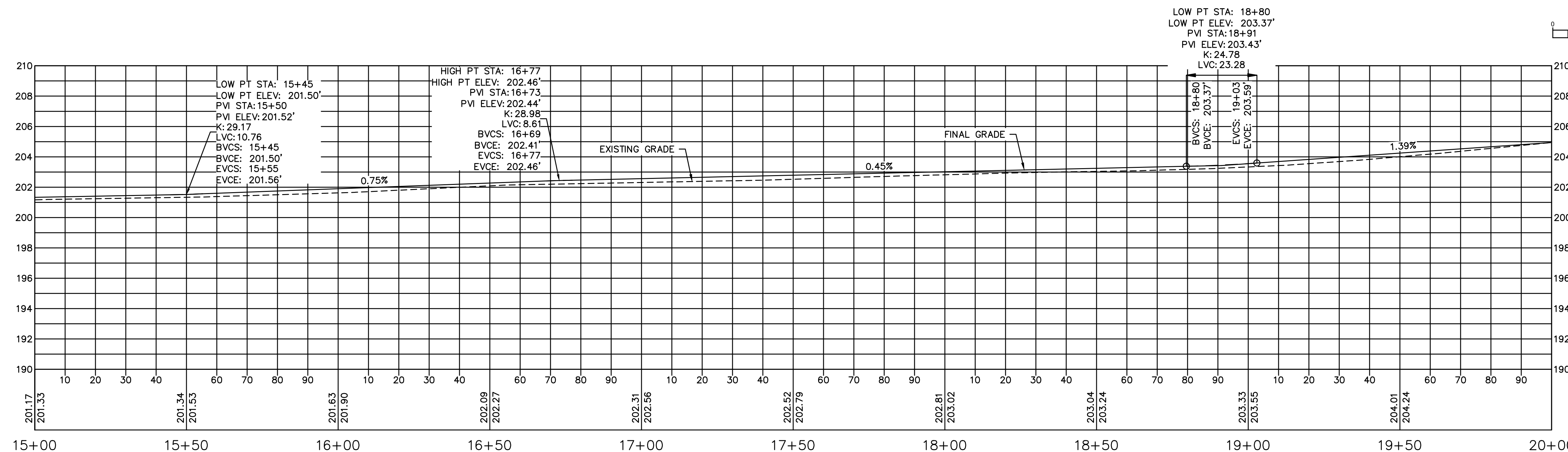
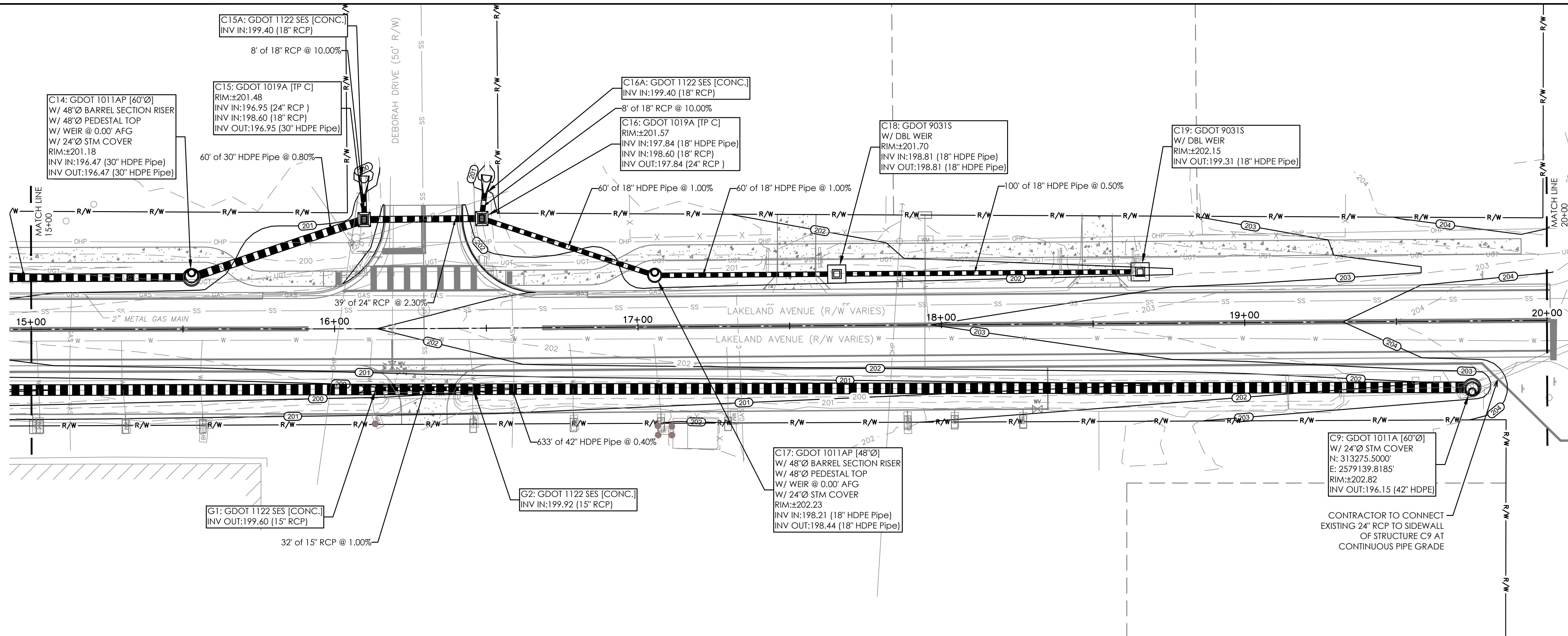
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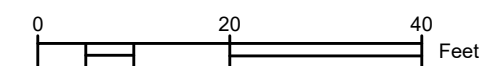
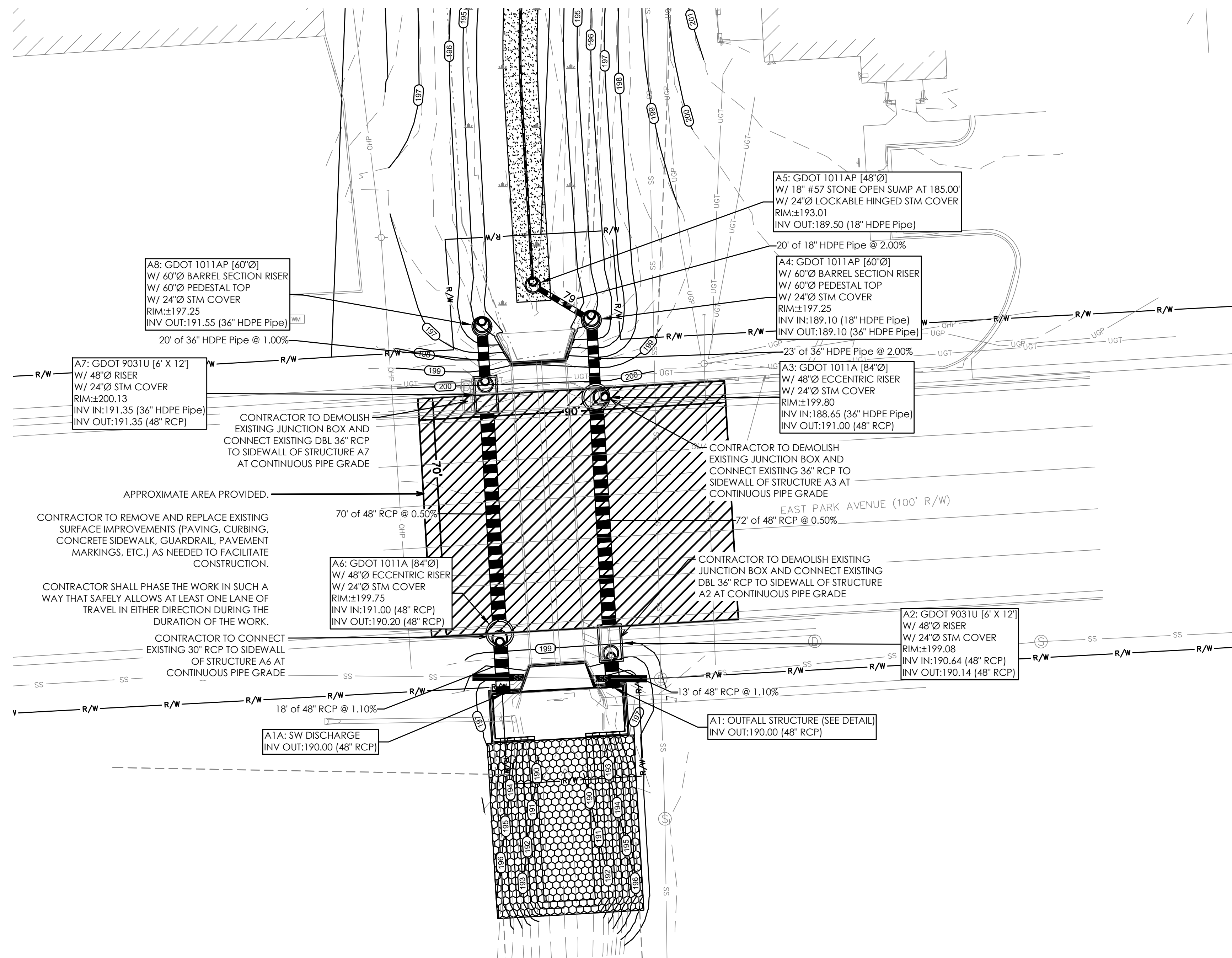
ROAD PLAN & PROFILE
(STA 15+00 - 20+00)

DRAFT

C-7

SHEET 8 OF 24





CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS	
ISS	DATE
DRFT	9/10/25
DRFT	9/29/25

PARK AVENUE OUTALL
GRADING &
DRAINAGE PLAN



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

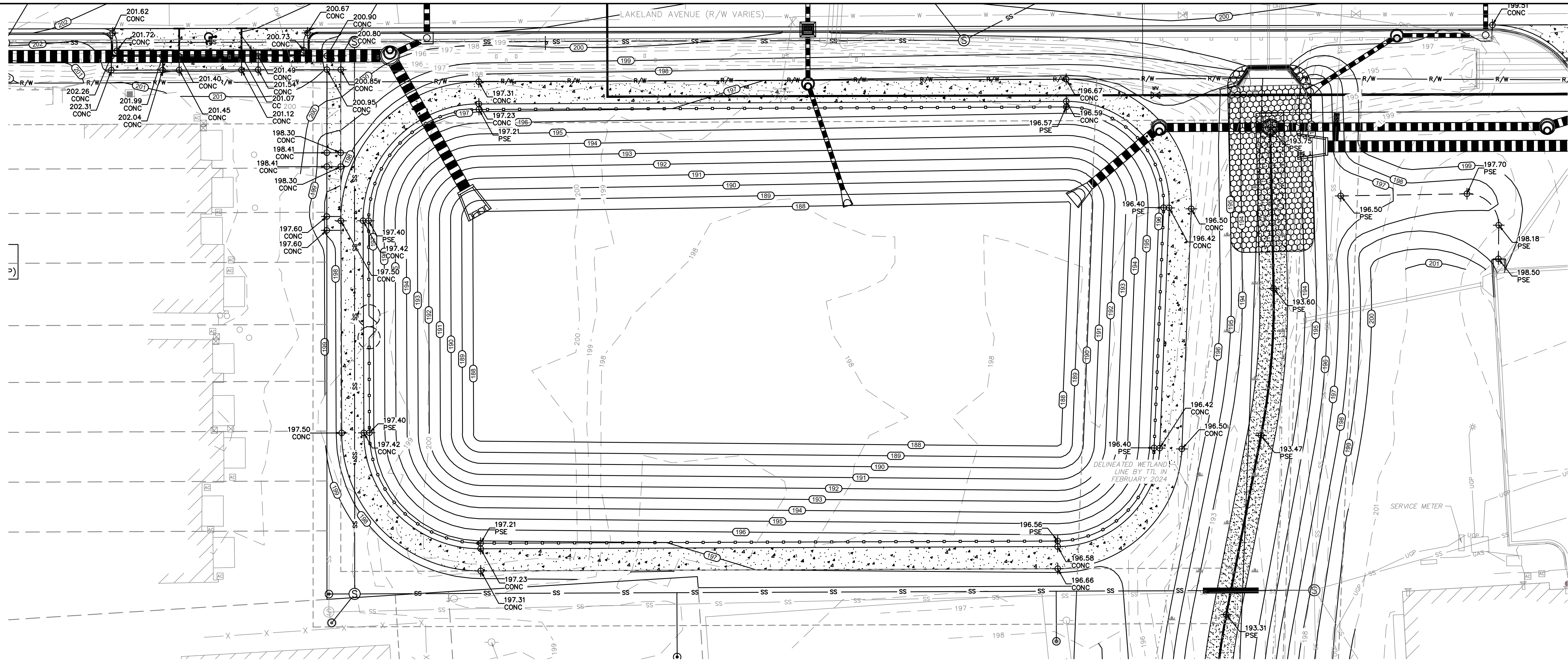
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DETAILED GRADING PLANS
(1 OF 2)

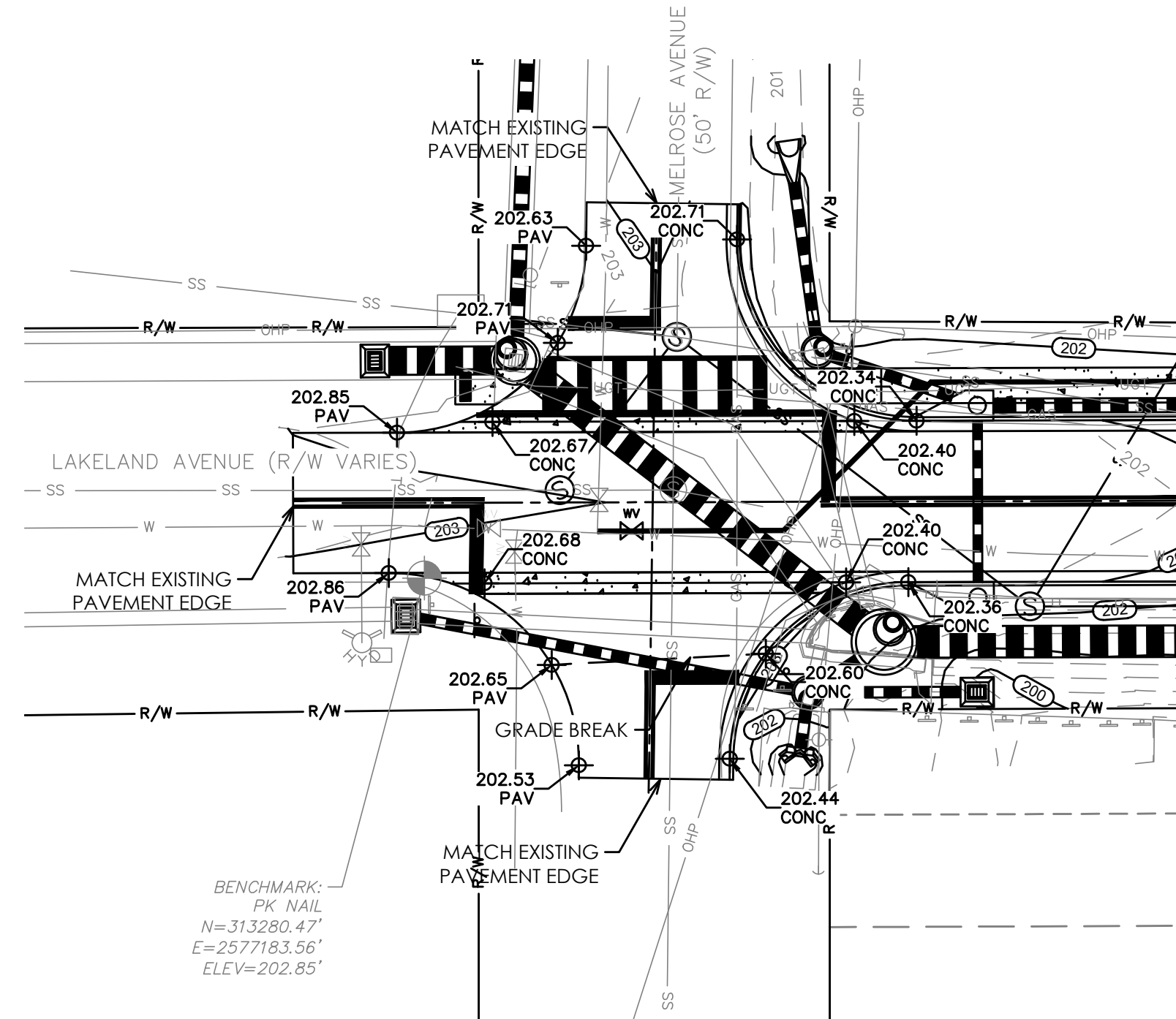
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C-9

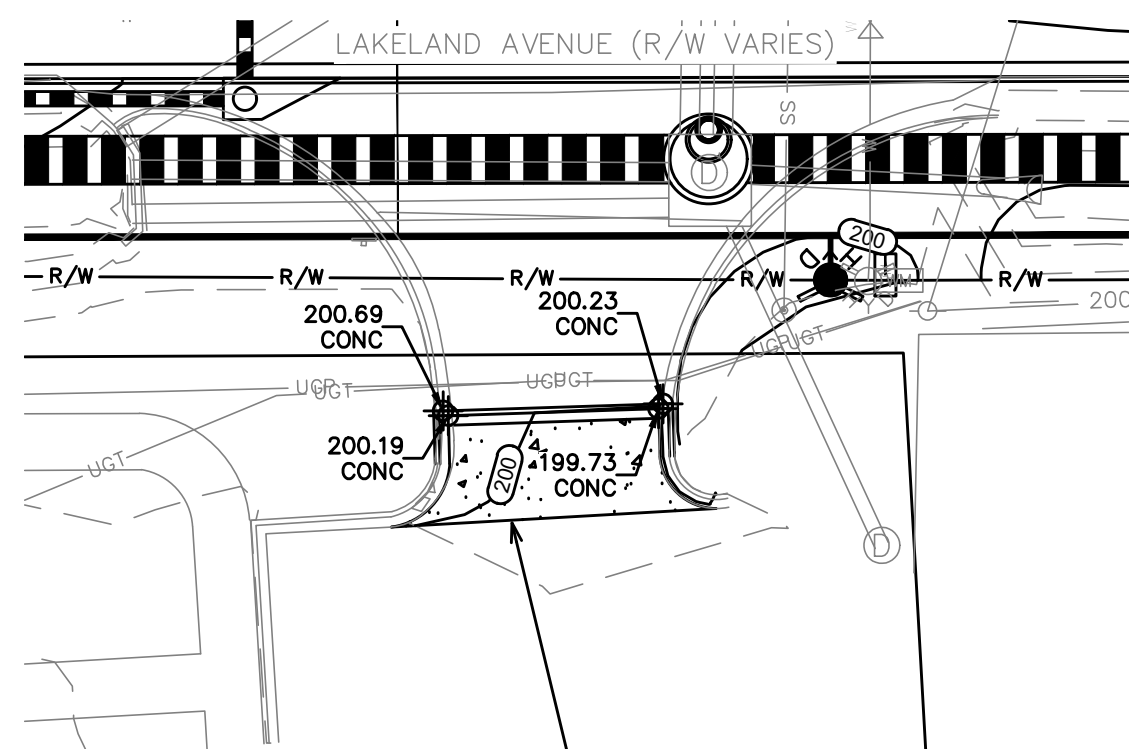
SHEET 10 OF 24



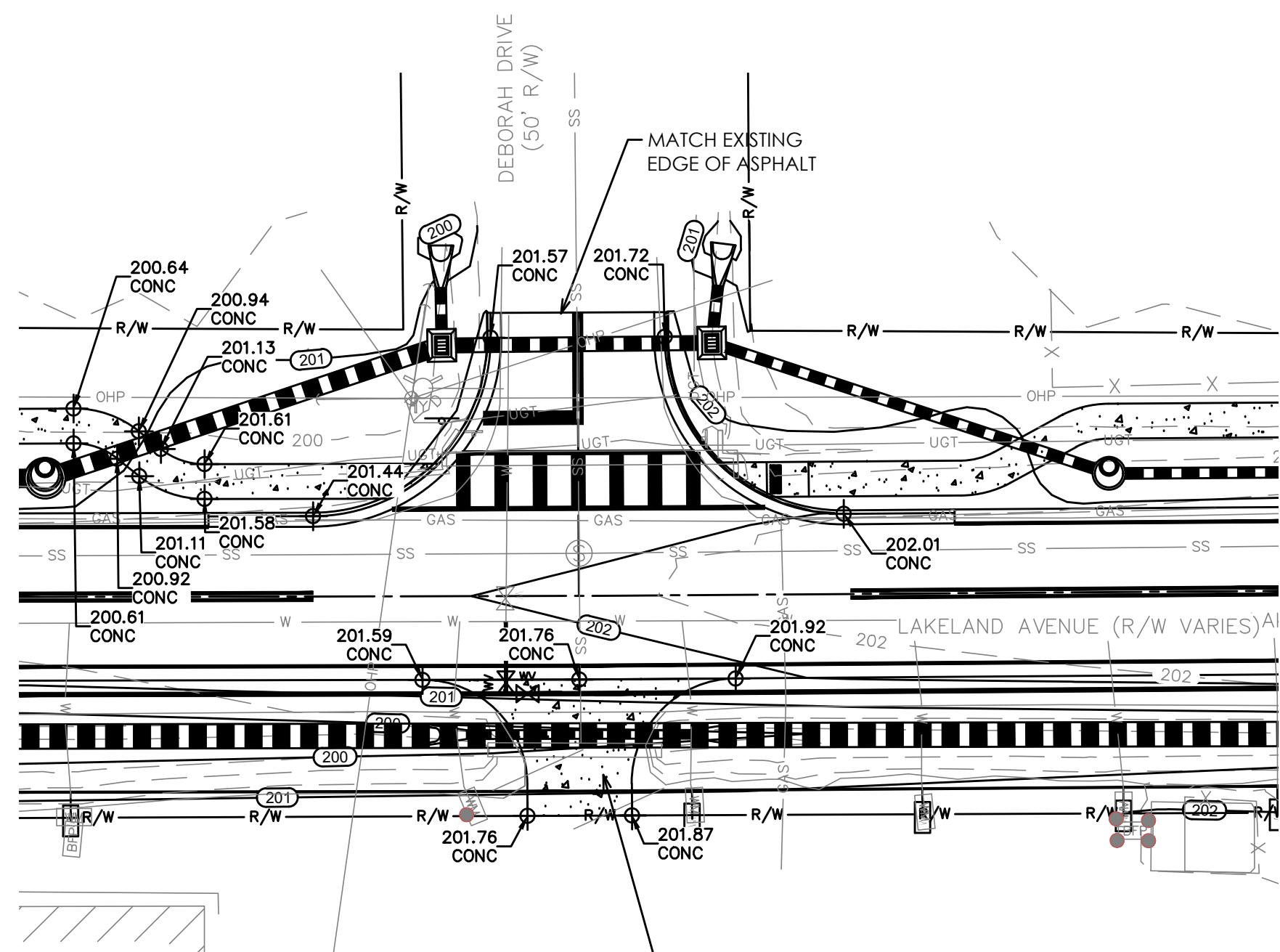
POND A - DETAILED GRADING PLAN
N.T.S.



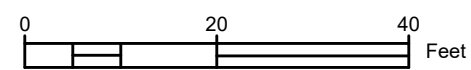
MELROSE @ LAKELAND - DETAILED GRADING PLAN
N.T.S.

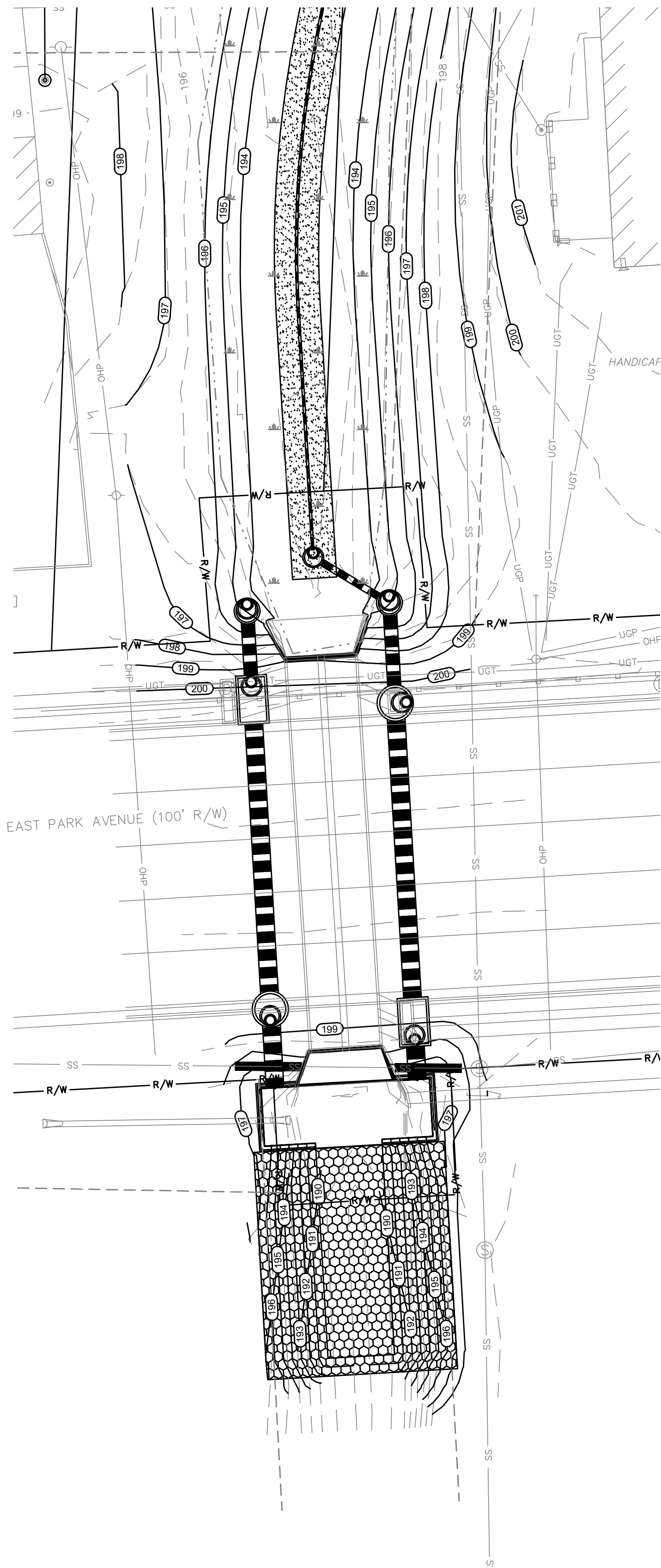


VSC DUMPSTER CORRAL - DETAILED GRADING PLAN
N.T.S.

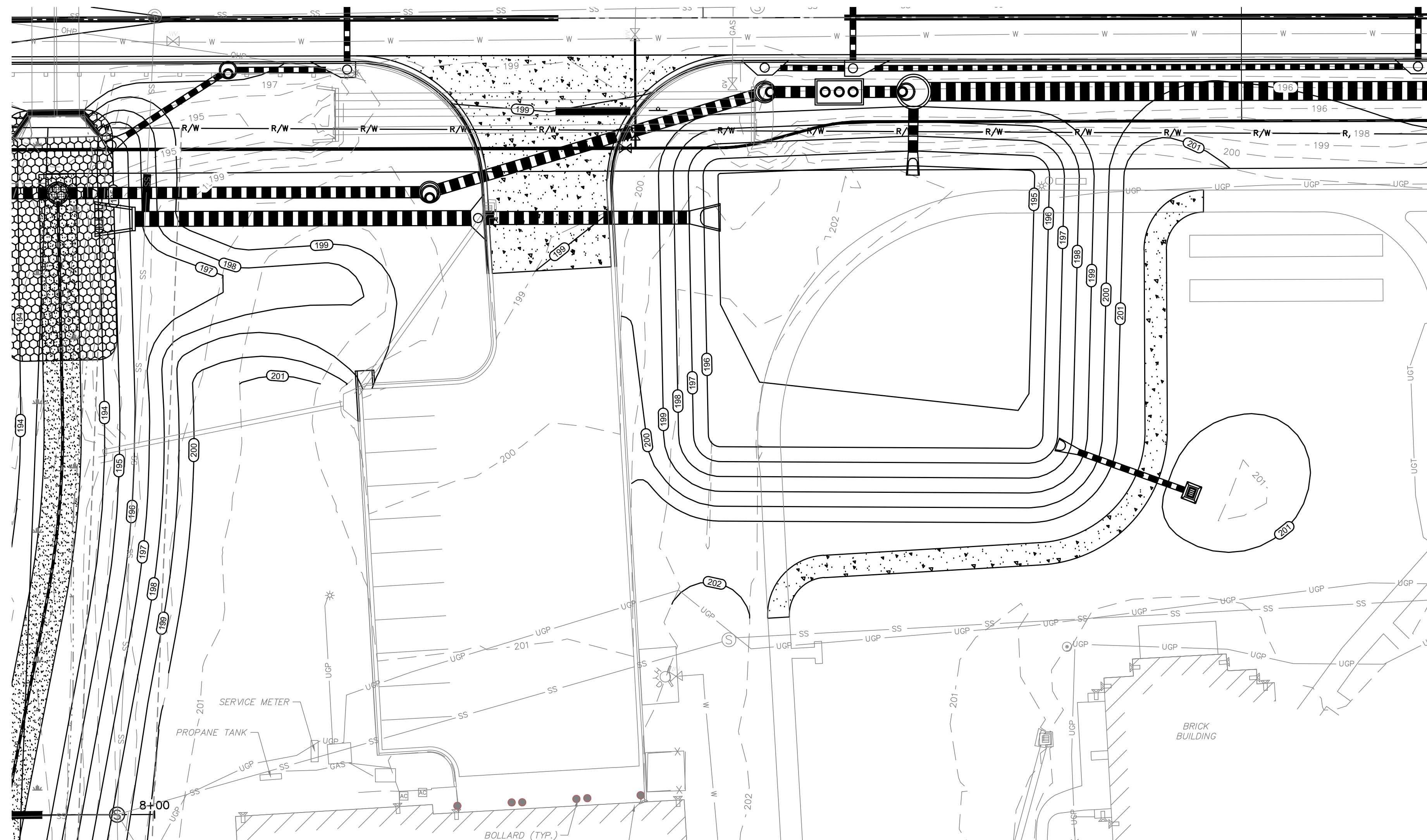


DEBORAH @ LAKELAND - DETAILED GRADING PLAN
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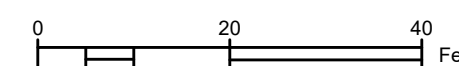




PARK AVENUE OUTFALL - DETAILED GRADING PLAN
N.T.S.



POND B - DETAILED GRADING PLAN
N.T.S.



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

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DETAILED GRADING PLANS
(2 OF 2)

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C-10



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

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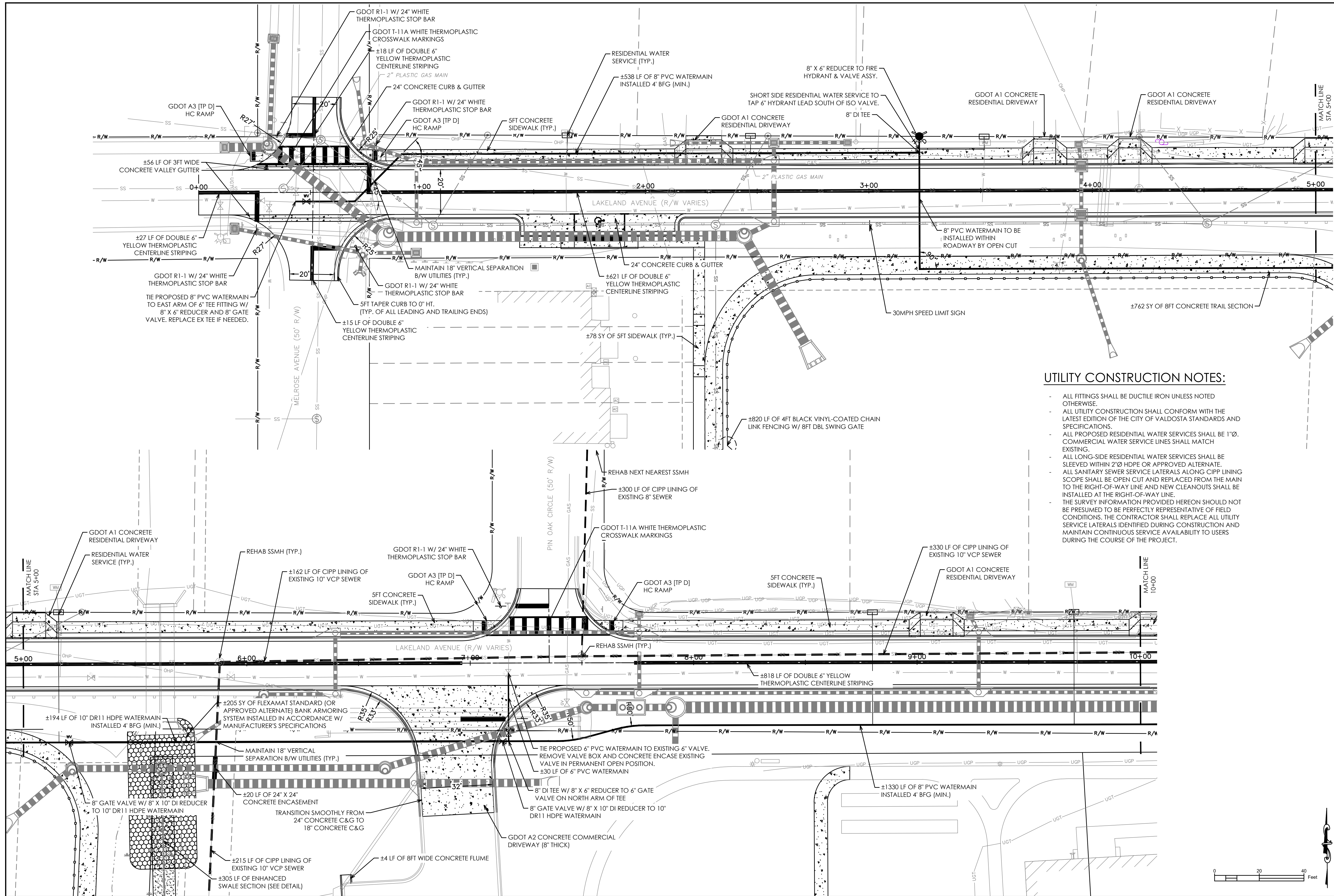
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LAYOUT & UTILITY PLAN
(1 OF 2)

DRAFT

C-11

SHEET 12 OF 24



UTILITY CONSTRUCTION NOTES:

- ALL FITTINGS SHALL BE DUCTILE IRON UNLESS NOTED OTHERWISE.
- ALL UTILITY CONSTRUCTION SHALL CONFORM WITH THE LATEST EDITION OF THE CITY OF VALDOSTA STANDARDS AND SPECIFICATIONS.
- ALL PROPOSED RESIDENTIAL WATER SERVICES SHALL BE 1"Ø. COMMERCIAL WATER SERVICE LINES SHALL MATCH EXISTING.
- ALL LONG-SIDE RESIDENTIAL WATER SERVICES SHALL BE SLEEVED WITHIN 2"Ø HDPE OR APPROVED ALTERNATE.
- ALL SANITARY SEWER SERVICE LATERALS ALONG CIPP LINING SCOPE SHALL BE OPEN CUT AND REPLACED FROM THE MAIN TO THE RIGHT-OF-WAY LINE AND NEW CLEANOUTS SHALL BE INSTALLED AT THE RIGHT-OF-WAY LINE.
- THE SURVEY INFORMATION PROVIDED HEREON SHOULD NOT BE PRESUMED TO BE PERFECTLY REPRESENTATIVE OF FIELD CONDITIONS. THE CONTRACTOR SHALL REPLACE ALL UTILITY SERVICE LATERALS IDENTIFIED DURING CONSTRUCTION AND MAINTAIN CONTINUOUS SERVICE AVAILABILITY TO USERS DURING THE COURSE OF THE PROJECT.



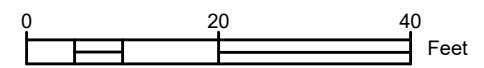
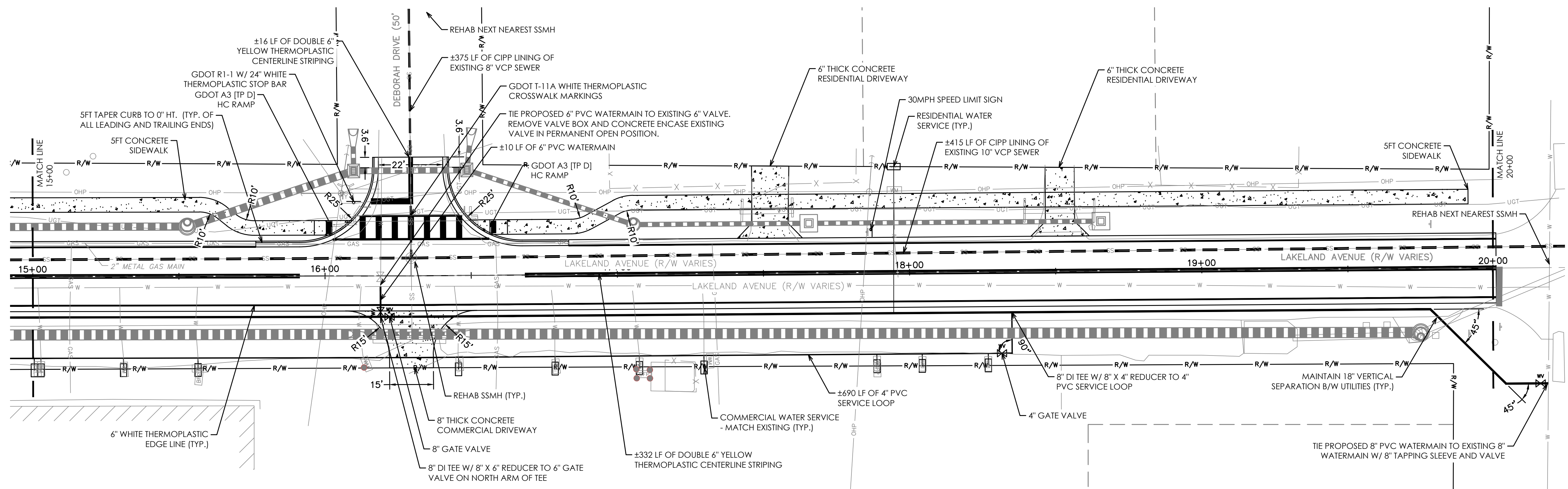
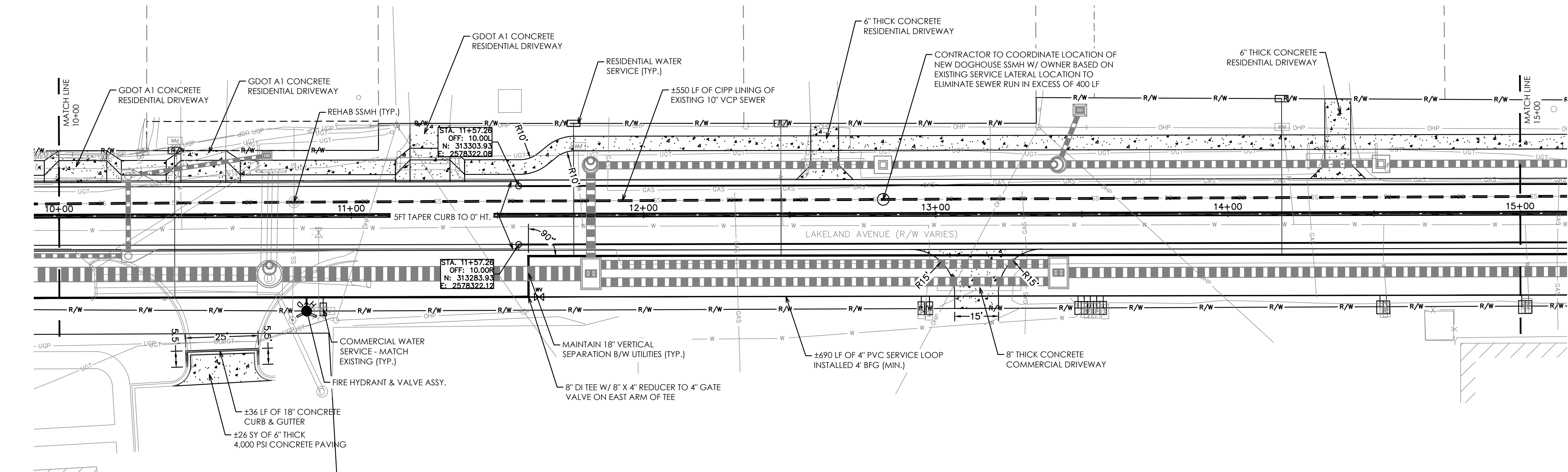
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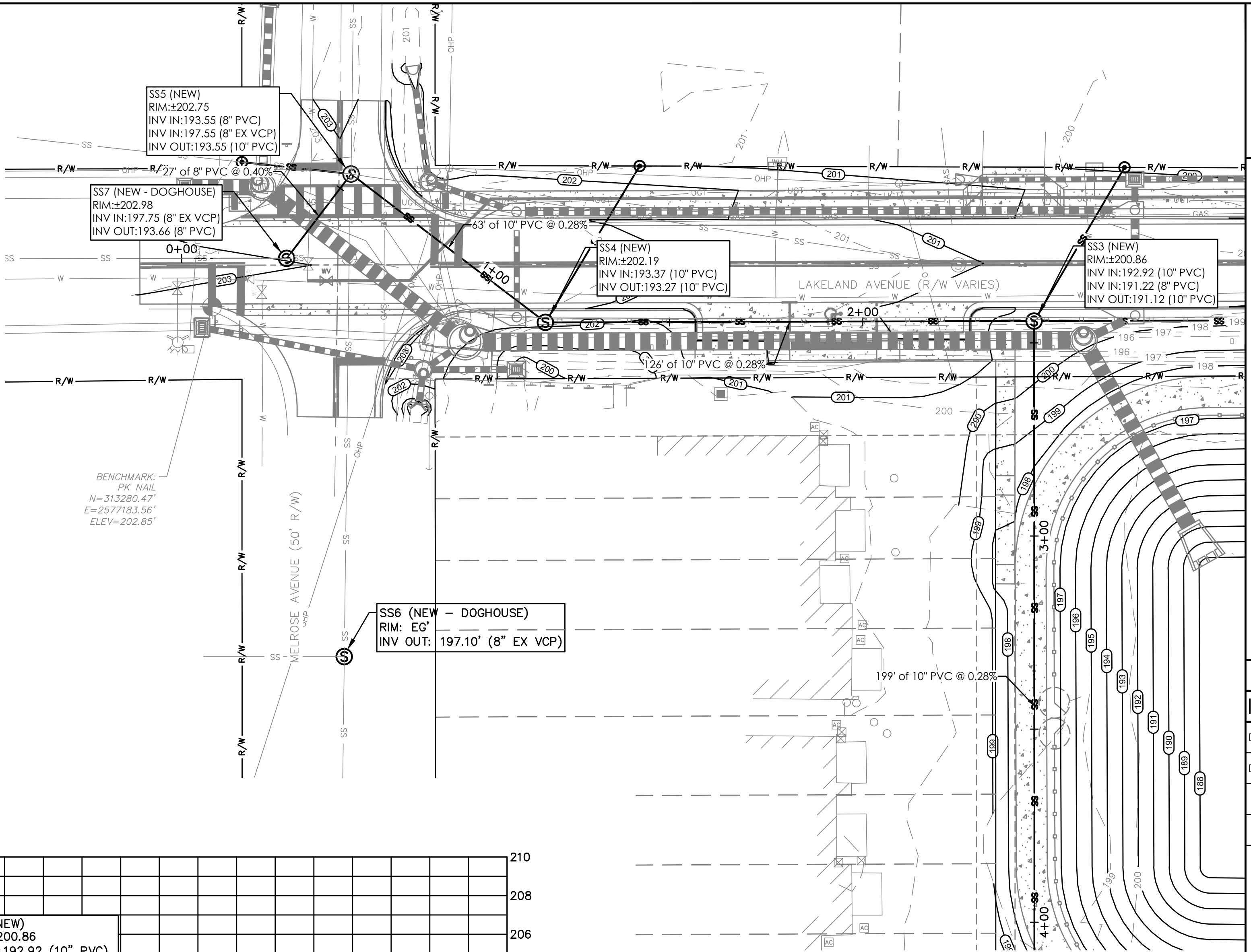
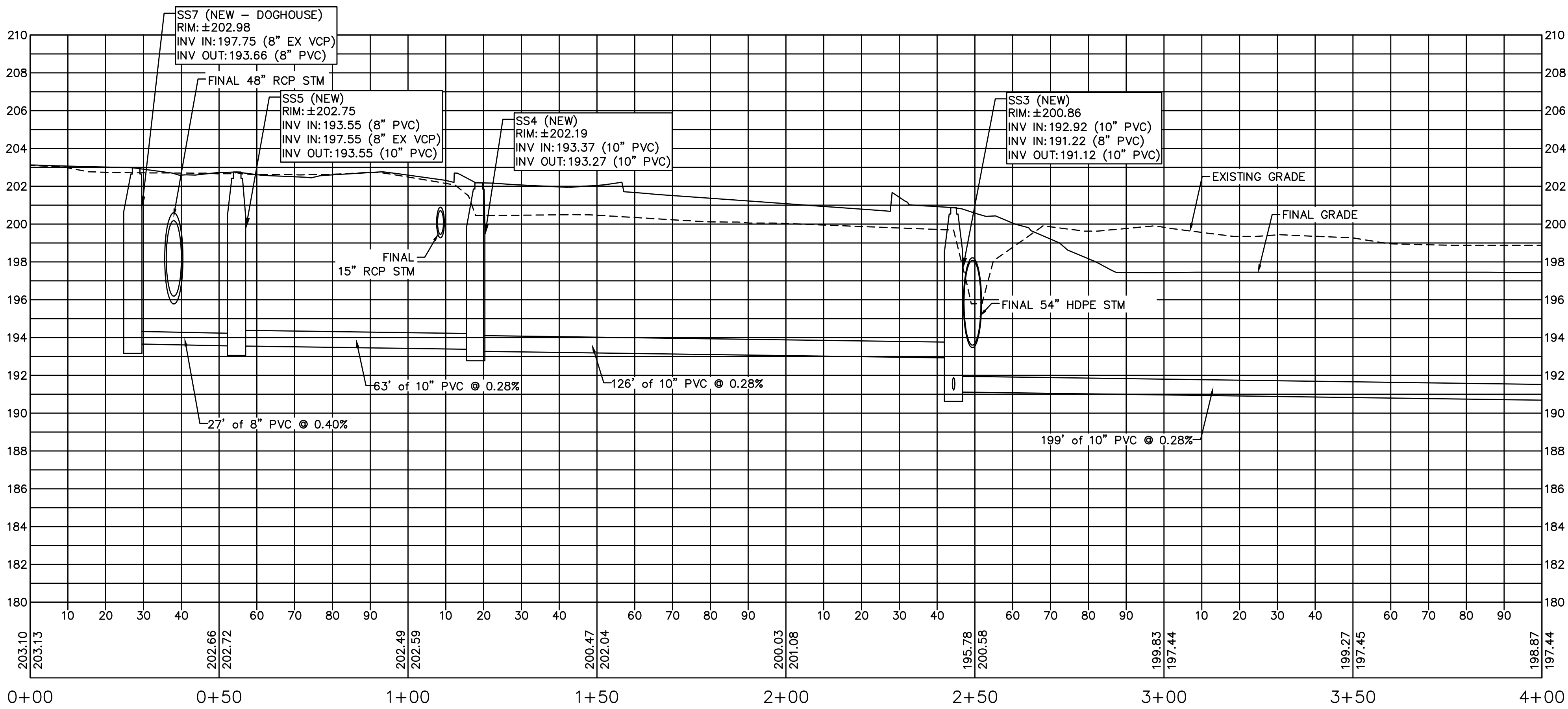
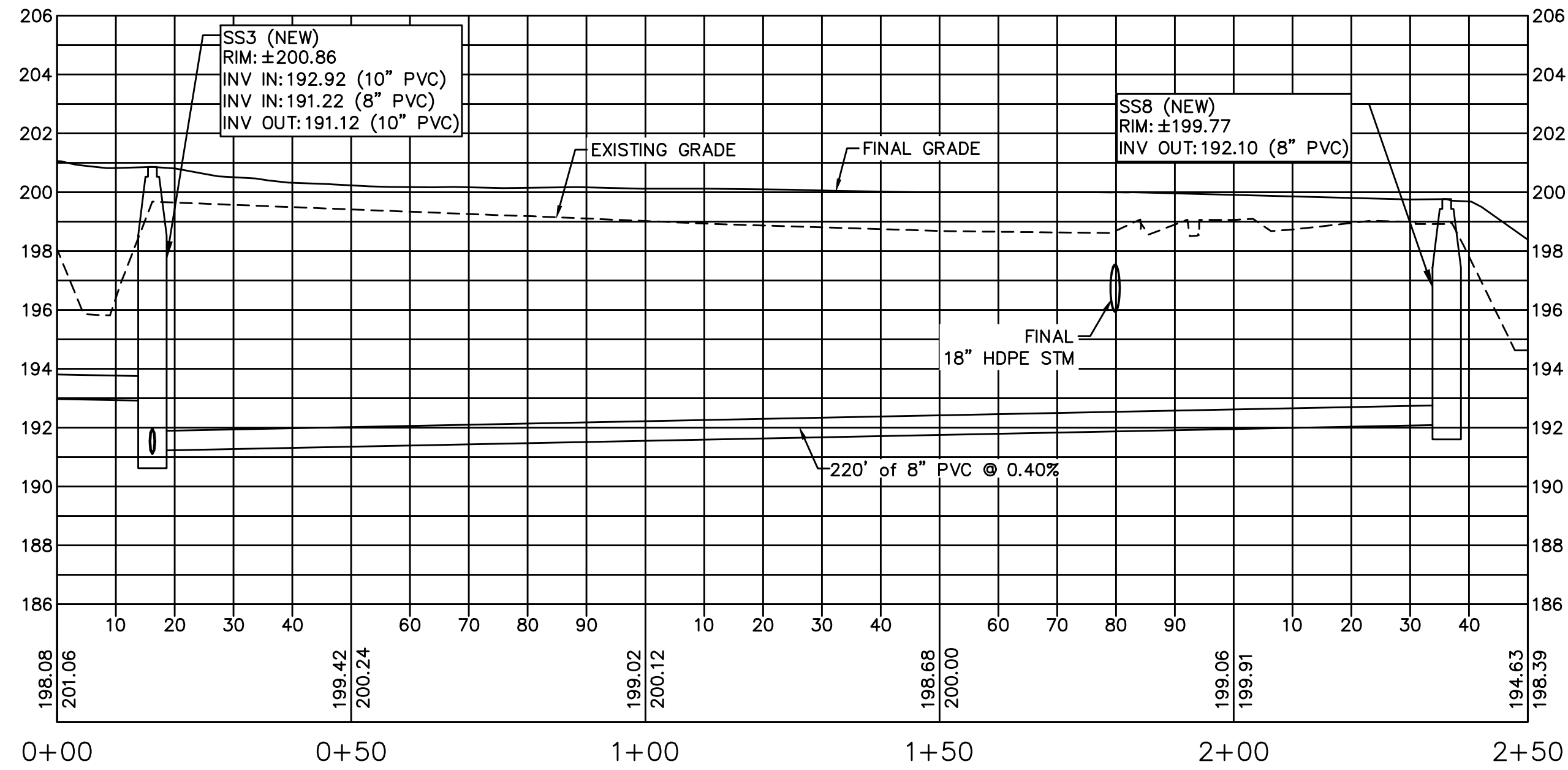
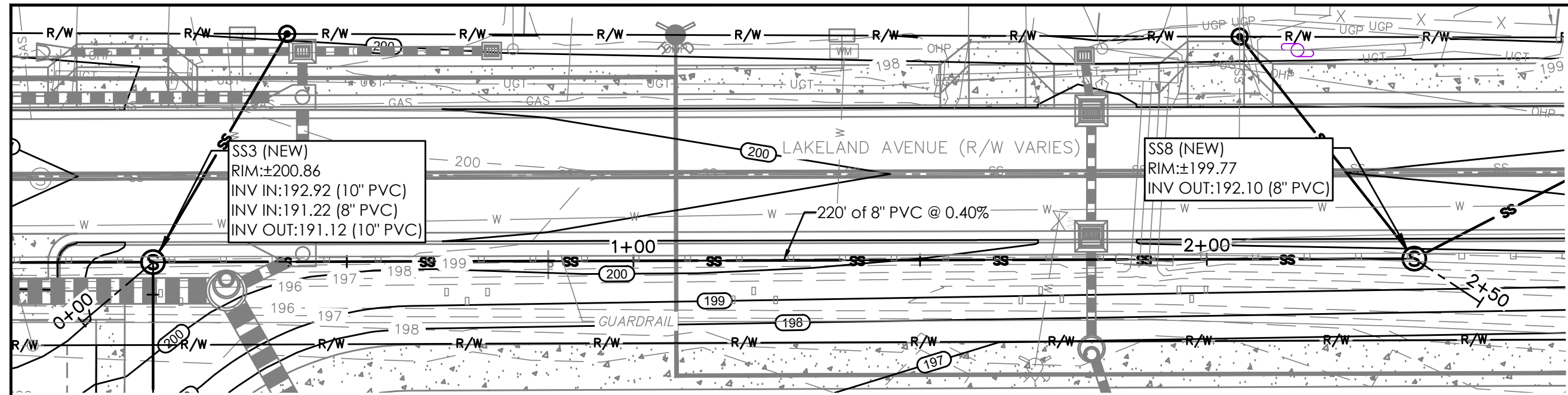
LAYOUT & UTILITY PLAN
(1 OF 2)

DRAFT

C-12

SHEET 13 OF 24





CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

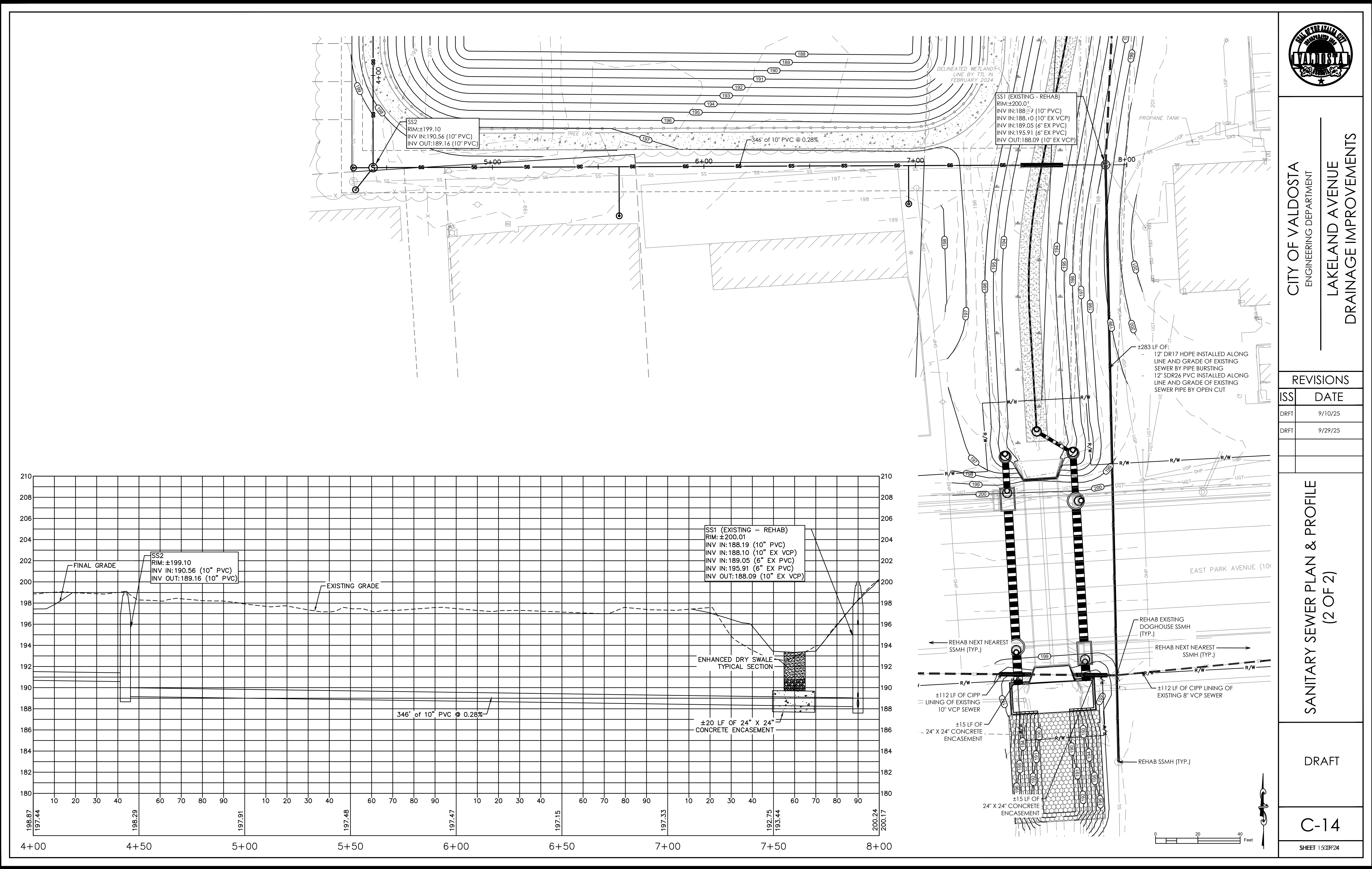
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SANITARY SEWER PLAN & PROFILE
(1 OF 2)

DRAFT

C-13

SHEET 14 OF 24



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS	
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DRFT	9/10/25
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SANITARY SEWER PLAN & PROFILE
(2 OF 2)

DRAFT



AKELAND AVENUE

DRAINAGE IMPROVEMENTS

S	DATE
EFT	9/10/25
EFT	9/29/25

DRAFT

SHEET 16 OF 24



CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
DS1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		DS1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
DS2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		DS2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
DS4	DISTURBED AREA STABILIZATION (WITH SODDING)		DS4	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
DU	DUST CONTROL ON DISTURBED AREAS		DU	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Ss	SLOPE STABILIZATION		Ss	A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS.
Sb	STREAM STABILIZATION (LIVE STAKE)		Sb	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
	CONSTRUCTION SITE EXIT		 (Label)	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
	CHECK DAM			A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED AT THE SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.
			 (Indicate type)	
	RETRO FITTING		 (Label)	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.
	SEDIMENT BARRIER		 (Indicate type)	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, OR SILT FENCE.
	INLET SEDIMENT TRAP			A TEMPORARY PROTECTIVE DEVICE FORMED AT OR AROUND AN INLET TO A STORM DRAIN TO TRAP SEDIMENT
	STORM DRAIN OUTLET PROTECTION		 (Label)	A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.

1. THE CONTRACTOR SHALL MINIMIZE THE AREAS TO BE DISTURBED SIMULTANEOUSLY.
2. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
3. THE CONTRACTOR SHALL VERIFY WITH ENGINEER THE NOTICE OF INTENT HAS BEEN SUBMITTED TO EPD PRIOR TO CONSTRUCTION.
4. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
5. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.
6. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
7. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED PER REQUIREMENTS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
8. THE CONSTRUCTION AREA SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
9. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
10. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
11. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF ALL SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
13. CUT AND FILL SLOPES ARE NOT TO EXCEED 2H:1V.
14. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH SOD. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
15. TYPE "A" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCKPILE AREAS.
16. CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
- 17. ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.**
- 18. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.**
- 19. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.**
20. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
21. UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.



CITY OF VALDOSTA
ENGINEERING DEPARTMENT
LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

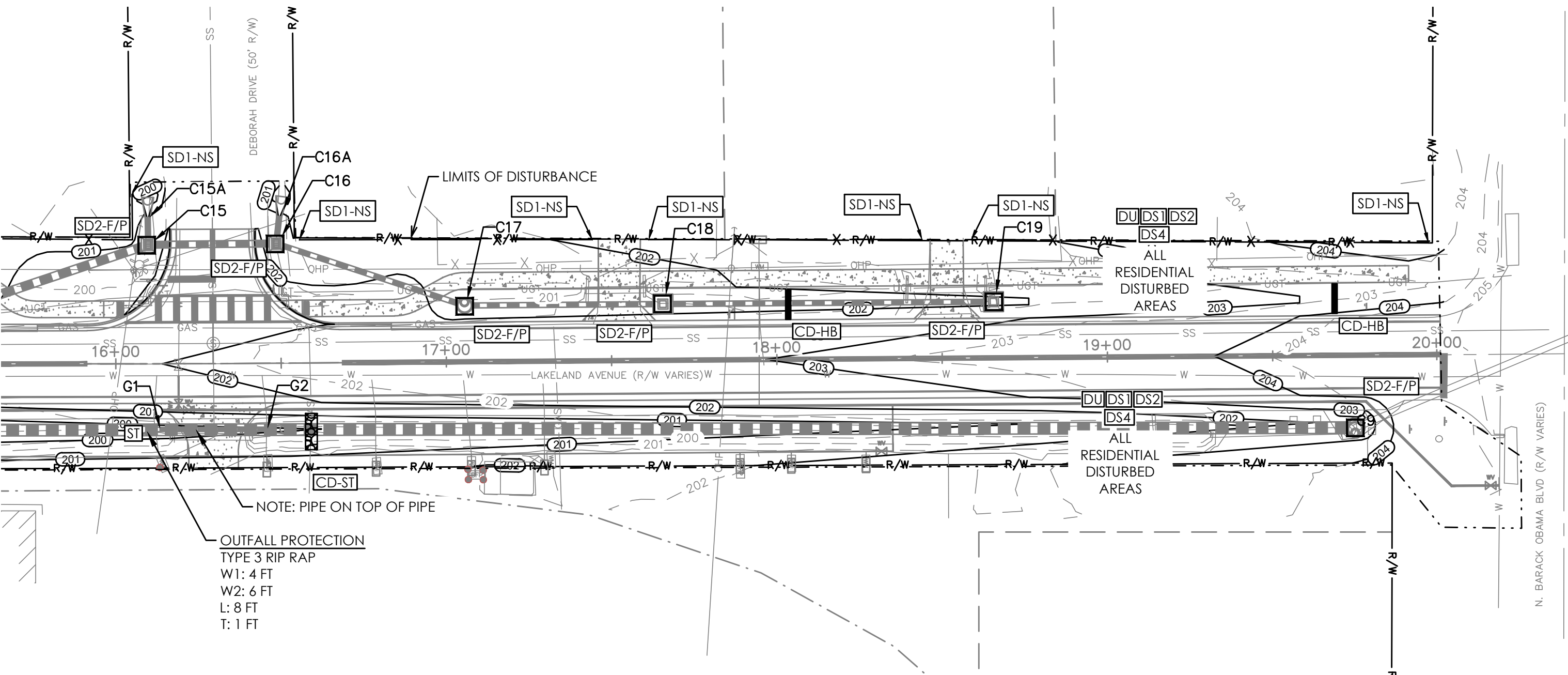
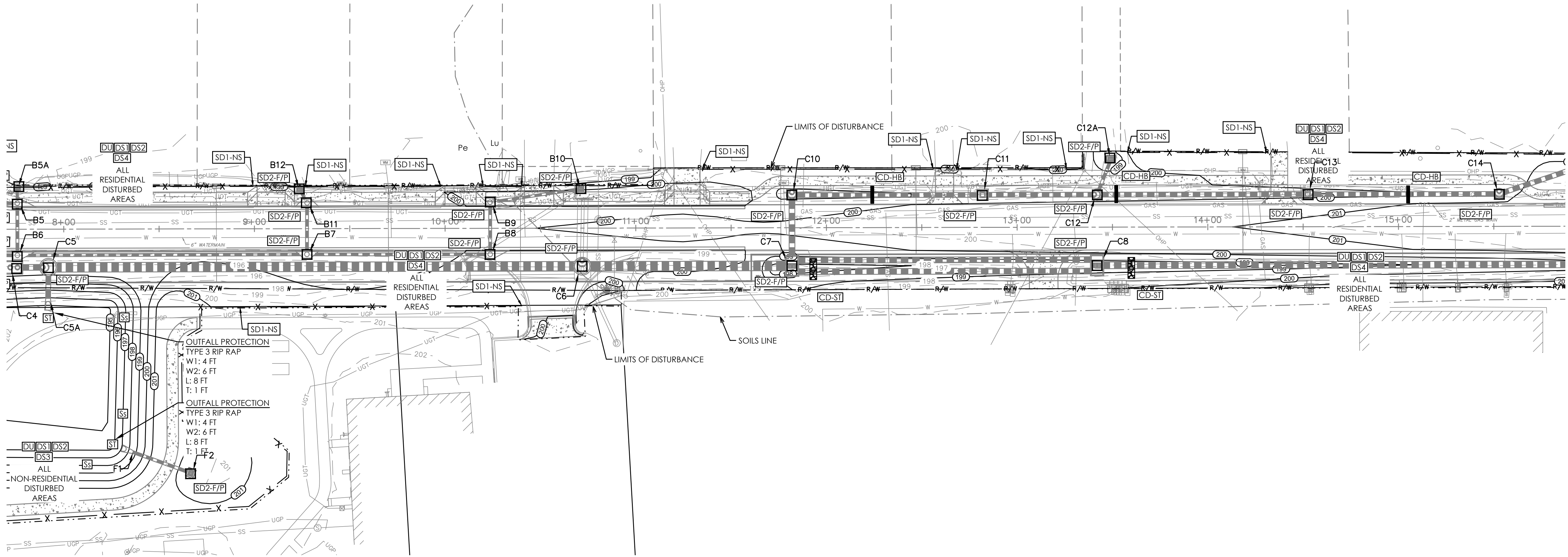
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ESPC PLAN
(2 OF 2)

DRAFT

C-16

SHEET 17 OF 24



ESPC LEGEND	
---	LAND DISTURBANCE LIMITS
X	SILT FENCE
---	SOIL LINE

SOILS LEGEND	
SYMBOL	MAP UNIT DEFINITION
Lu	Leefield-Urban land complex
Pe	Pelham loamy sand, 0 to 2 percent slopes, frequently flooded

SEDIMENT STORAGE CALCULATIONS

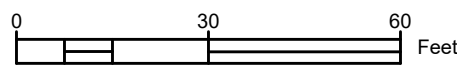
- Drainage area = 5.8 ac
- Required sediment storage = 67 cy/ac*drainage area
Required sediment storage = 67 cy/ac*5.8 ac
Required sediment storage = 388 cy = 10,476 cf
- Assume excavation depth (minimum of 2 ft) = 2 ft
Shape: SQUARE
Dimensions: l = 15 ft w = 15 ft
ONE EXCAVATED SEDIMENT TRAP: 15' X 15' X 2' DEEP = 6.5 CY STORAGE
55 (excavated sediment traps) x 6.5 cy = 357 CY STORAGE

RETROFIT CALCULATIONS

(SEE SHEET 20 FOR DETAILS)

REQUIRED STORMWATER STORAGE = 4034 CY (1.65 IN. STORM)
REQUIRED SEDIMENT STORAGE = 677 CY
5.8 AC X 67 CY/AC = 388
TOTAL STORAGE REQUIRED = 388
TOTAL STORAGE AVAILABLE = 357 CY

CLEANOUT ELEVATION = 201.5
THE LENGTH OF THE CLEANOUT IS GREATER THAN 1.8:1,
THEREFORE, THE CLEANOUT IS SHOWN TO INCREASE THE FLOW
LENGTH OF THE CLEANOUT = ONE 60" TO COVER BOTH PIPES, OR TWO
30" CLEANOUTS FOR EACH PIPE
CLEANOUT HEIGHT = 2'



SITE SUMMARY

24 HOUR CONTACT: Ben O'Dowd, 229–253–0900

PRIMARY PERMITTEE:

City of Valdosta
300 N Lee Street
Valdosta, GA 31602
bodow@valdostacity.com
229–253–0900

TOTAL SITE AREA (ACRES): 5.8 Acres

TOTAL DISTURBED AREA (ACRES): 5.8 Acres

SITE NAME and DESCRIPTION OF CONSTRUCTION ACTIVITY:

[Site Name]

The proposed site is located on Lakeland Avenue (Begin: N30.858337° W83.272277°, End N30.858336° W83.269548°) in Valdosta, Georgia. The site is currently a paved road. There are wetlands on the site and will be impacted but are covered under Nationwide Permit #43. The site slopes generally from the west. The proposed work includes clearing, grading, and installation of infrastructure. The site is not within a 100–year flood plain. The site is in Land Lot 105 & 106 of the 11th Land District. The project is proposed to begin in February 2026 with project completion estimated in August 2026.

NAME OF INITIAL RECEIVING WATER:

- City of Valdosta MS4 System and into One Mile Branch.

WATER QUALITY SAMPLING LOCATIONS:

Location #1–Pond Outfall

A turbidity limit of 75 NTUs has been established for this location based on the following criteria:

- Warm Water Fishery
- Construction Site Site: 5.8 ACRES
- Surface water drainage area: 0–4.99 mi²

RUNOFF COEFFICIENT OR PEAK FLOW:

PRE–DEVELOPMENT= 65

POST–DEVELOPMENT= 65

GENERAL ESPC NOTES

- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
- Non–empt activities shall not be conducted within the 25 or 50–foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25–feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.
- The design professional who prepared the ES&PC plan is to inspect and certify the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation.
- Amendments/revisions to the ES&PC plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.
- Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
- This ES&PC plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations.
- After construction shall be in accordance with City of Valdosta standards and specifications.
- All erosion control measures shall be inspected by the contractor daily. Any damages observed shall be repaired by the end of that day.
- Contractor shall be responsible for installing the minimum required erosion control measures as shown on plans. Contractor is also responsible for ensuring compliance with NPDES law.
- The contractor is to verify all elevations of proposed structures as shown to ensure positive drainage prior to any construction.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY FIELD INSPECTOR.**
- Upon completion of the project and receipt of certificate of occupancy, the contractor shall remove all temporary erosion control measures and dispose of them unless noted on plans.

EROSION AND SEDIMENT CONTROLS

SEQUENCE OF MAJOR ACTIVITIES: Initial sediment storage requirements and perimeter control BMPs

- Clearing, grubbing, rough grading
- Maintenance of best management practices on–going throughout project
- Demolition of existing structures
- Intermediate grading and drainage BMPs
- Building and infrastructure construction
- Final grading
- Final BMPs

BUFFER ENCROACHMENTS:

- A buffer variance is not required.

SEDIMENT BASINS:

"For common drainage locations a temporary (or permanent) sediment basin providing at least 1800 cubic feet (67 cubic yards) of storage per acre drained, or equivalent control measures, shall be provided until final stabilization of the site." Implementation and maintenance of sediment basins shall be conducted according to paragraph I.V.D.3.a.(3) of Permit GAR 100002.

STABILIZATION MEASURES

A stabilized construction exit (Co) shall be provided to help reduce vehicle tracking of sediments. Paved streets used to access the site and those within shall be swept as needed to remove any excess mud, dirt or rock tracked from the site. Dump trucks hauling material from the construction site shall be covered with tarpaulins. Silt fencing (Sd1) shall be utilized downstream of all disturbed areas. Temporary sediment traps (Sd2) shall be installed around all stormwater structures. Check dams (Cd) shall be installed in areas of concentrated flow. Dust control (Du) shall be utilized on all disturbed areas. Temporary and permanent grassing (Ds2, Ds3) shall be applied according to the schedule shown in the specifications for the practice. Stabilization measures shall be initiated as soon as practicable but in no case later than 14 days after construction has temporarily or permanently ceased.

POST-CONSTRUCTION BMPs

Stormwater detention ponds and vegetated swales are permanent measures that will be installed to control pollutants after construction operations are complete. Velocity dissipation devices will be placed at discharge locations and along the length of any outflow channel in order to provide a non–erosive flow so that the natural physical and biological characteristics and functions of the water course are maintained and protected. The installation of these devices may be subject to Section 404 of the federal Clean Water Act.

OTHER CONTROLS

TIMING OF CONTROLS/MEASURES:

All control measures shall be implemented according to the construction schedule shown in the Sequence of Major Activities section.

NON-STORMWATER DISCHARGES:

It is expected that the following non–stormwater discharges will occur from the site during the construction period

- Water from water line flushings and fire hydrants.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated ground water (from dewatering excavation).

All non–stormwater discharges shall be directed to a sediment basin prior to discharge.

POTENTIAL POLLUTANTS:

The following potential pollutants typically identified with construction may be present on–site. Pollution prevention measures implemented as part of this plan will reduce the potential for contact of these pollutants with stormwater.

- Petroleum products
- Construction debris
- Silt
- Fertilizers
- Paints and related materials
- Chlorinated water line flushings
- Sanitary waste

SPILL PREVENTION:

Material management practices:

Good Housekeeping: The following good housekeeping practices shall be followed on–site during the construction project.

- An effort shall be made to store only enough of any product utilized on–site as is required to do the job.
- All materials stored on–site shall be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site, provide cover (e.g. plastic sheeting, temporary roofs) to minimize the exposure of these products to precipitation and to stormwater, or a similarly effective means designed to minimize the discharge of pollutants from these areas. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk to stormwater contamination (such as final products and materials intended for outdoor use).
- Products shall be kept in their original containers with the original manufacturer's label.
- Substances shall not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product shall be used up before disposing of the container.
- Manufacturer's recommendations for proper use and disposal shall be followed.
- The site superintendent shall inspect daily to ensure proper use and disposal of materials on–site.

Hazardous Products:

- Hazardous products used on–site shall be kept in original containers unless they are not resealable.
- Original labels and safety data sheets (MSDSs) shall be retained on site.
- Surplus hazardous products shall be disposed of according to Federal, State, and Local guidelines.

Fertilizers:

- Fertilizers used for enhancement of stabilization measures shall be applied according to applicable rate schedules.
- Fertilizers shall be "worked" into the soil to minimize exposure to stormwater.
- Fertilizer materials stored on–site shall be managed in a manner to reduce the potential for stormwater contamination.

Paints:

- Paint materials on–site shall be stored in tightly sealed containers.
- Excess paint and paint waste shall be disposed of according to applicable Federal, State, and Local guidelines.

SPILL CONTROL PRACTICES:

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices shall be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup shall be clearly posted and site personnel shall be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup shall be kept in material storage area on–site.
- All spills shall be cleaned up immediately after discovery.
- Spills of toxic or otherwise hazardous materials shall be reported to the appropriate Federal, State, or local government agency, regardless of the size.
- The spill prevention plan shall be adjusted to include measures to prevent spills from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the clean up measures shall also be included.

The site superintendent responsible for the day–to–day operations shall be the spill prevention and cleanup coordinator.

WASTE DISPOSAL:

- Waste Materials:

All trash and construction debris from the site shall be deposited in a dumpster. The dumpster shall be emptied when full. No construction waste materials shall be buried on–site. All personnel shall be instructed regarding the correct procedure for waste disposal. All waste disposal practices shall be conducted in accordance with State and/or local waste disposal regulations.

- Hazardous Waste:

All hazardous waste materials shall be disposed of in the manner specified by State or local regulation or by the manufacturer. Site personnel shall be instructed in these practices and the Project Superintendent, the individual who manages day–to–day site operations, shall be responsible for seeing that these practices are followed.

- Sanitary Waste:

Sanitary waste generated from portable units shall be emptied as required to provide for sanitary conditions. All sanitary waste disposal practices shall be conducted in accordance with State and/or local waste disposal regulations.

INSPECTIONS AND RECORD KEEPING

The following is the complete requirements of inspections and record keeping as stated in Part I.V.D.4.a of the Permit:

- Inspections.
- Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off–site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non–working Saturday, non–working Sunday and non–working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the Primary Permittee) shall inspect the following at least once every fourteen (14) calendar days: (a) disturbed areas of the Primary Permittee's construction site; (b) areas used by the Primary Permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the Primary Permittee's site shall be observed to ensure that they are operating correctly. Certified personnel shall also conduct inspections within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non–working Saturday, non–working Sunday or any non–working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first). Post–rain inspections will reset the 14–day inspection frequency requirement. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part I.V.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e. until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a

seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part I.V.D.4.a.(5), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best management practices on the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part of this permit.

SAMPLING FREQUENCY AND REPORTING OF RESULTS

The following is the complete requirements of inspections and record keeping as stated in Part I.V.D.6.d and Part IV.E of the Permit:

Part I.V.D.6.d Sampling Frequency

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving water and/or from a monitored outfall location within forty–five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the stormwater discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

- For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the representative sampling location;
- In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;
- At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post–rain event inspections determine that BMPs are properly designed, installed and maintained;
- Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part I.V.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and
- Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

Part IV.E Reporting

- The applicable permittees are required to submit the sampling results to the EPD by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
- All sampling reports shall include the following information:
 - The rainfall amount, date, exact place and time of sampling or measurements;
 - The name(s) of the certified personnel who performed the sampling and measurements;
 - The date(s) analyses were performed;
 - The time(s) analyses were initiated;
 - The name(s) of the certified personnel who performed the analyses;
 - References and written procedures, when available, for the analytical techniques or methods used;
 - The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
 - Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
 - Certification statement that sampling was conducted as per the Plan.
- All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate EPD District Office or delivery receipt email to the appropriate EPD District Office resource mailbox according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

RETENTION OF RECORDS

The following is the complete requirements of retention of records as stated in Part IV.F of the Permit:

Part IV.F Retention of Records

The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- A copy of all Notices of Intent submitted to EPD;
- A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- A copy of all sampling information, results, and reports required by this permit;
- A copy of all inspection reports generated in accordance with Part I.V.D.4.a. of this permit;
- A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- Daily rainfall information collected in accordance with Part I.V.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), or other reports requested by the EPD, Erosion,

Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternate location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

SAMPLING PROCEDURES AND ANALYTICAL TESTING METHODS

- All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136; the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833–B–92–001" and guidance documents that may be prepared by the EPD.

Sample Type

- 1.1. Sample containers should be labeled prior to collecting the samples.
- 1.2. Samples should be well mixed before transferring to a secondary container.
- 1.3. Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
- 1.4. Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event.

2. Sampling Points

- 2.1. Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s).
- 2.2. Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall stormwater channel.
- 2.3. The sampling container should be held so that the opening faces upstream.
- 2.4. The samples should be kept free from floating debris.

NOTICE OF TERMINATION

Upon final stabilization, A Notice of Termination shall be submitted to GA EPD in accordance with Permit GAR 100002 on forms provided by EPD (if available) or in the format outlined in the permit.

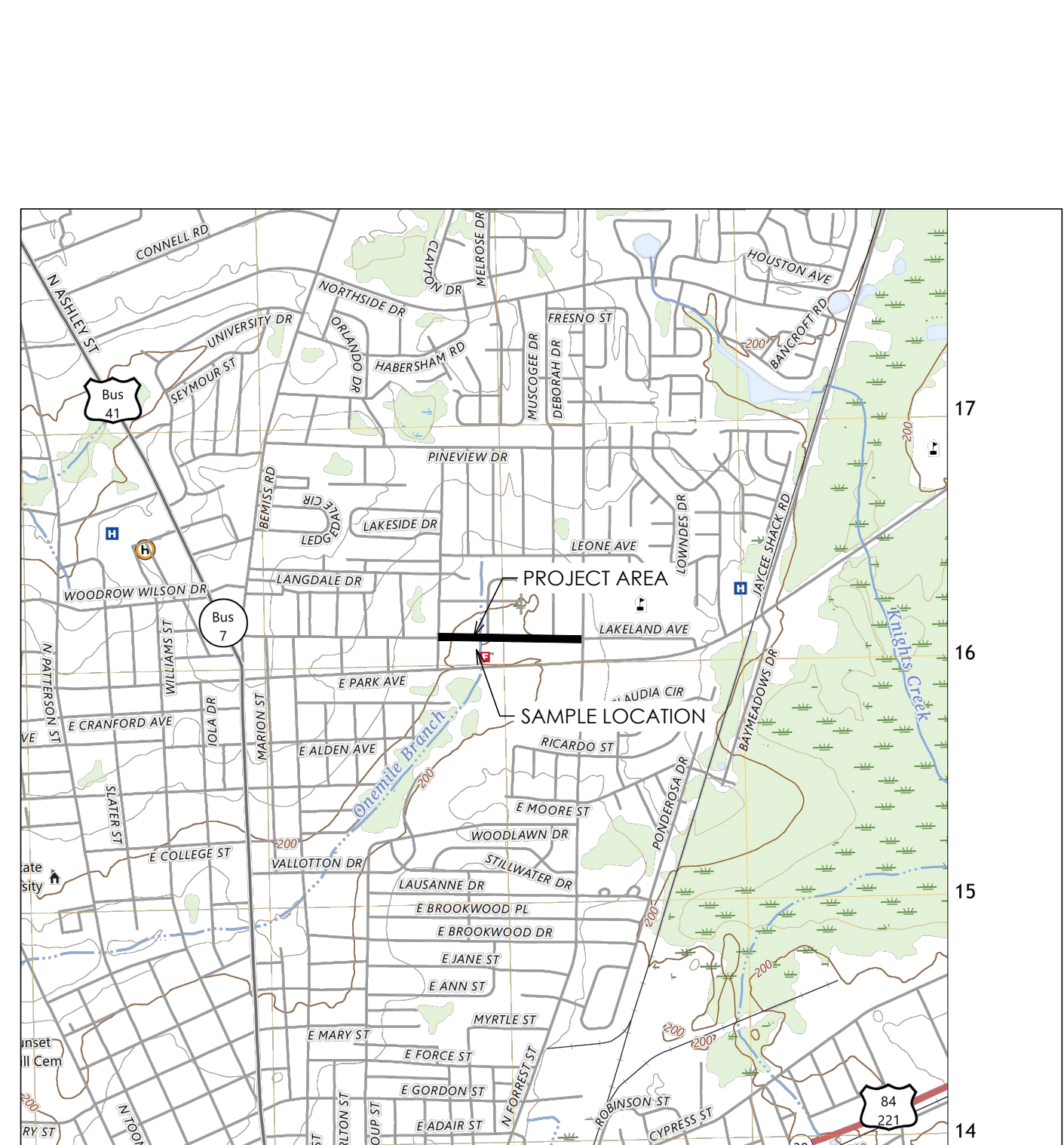
DESIGN PROFESSIONAL CERTIFICATION

I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land–disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the stormwater outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies."

Ben O'Dowd, P.E.
Level II Certification # 000000XXXX
GA PE# 46808



USGS MAP

SCALE: 1" = 2000'



CITY OF VALDOSTA
ENGINEERING DEPARTMENT

LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

ISS	DATE
DRFT	9/10/25
DRFT	9/29/25

ESPC NARRATIVE

DRAFT

C-17

SHEET 18 OF 24

Du

DUST CONTROL ON
DISTURBED AREAS

DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS AND DEMOLITION SITES.

PURPOSE

TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES AND REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

CONDITIONS

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHODS AND MATERIALS

- A. TEMPORARY METHODS
- MULCHES: SEE STANDARD DS1 – DISTURBED AREA STABILIZATION (WITH MULCHING ONLY) IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION. SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. TACKIFIERS, BINDERS, AND RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- VEGETATIVE COVER: SEE STANDARD DS2 – DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
- SPRAY-ON ADHESIVES: THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.
- TILLAGE: THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION: THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS: SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALL, BALES OF HAY AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
- B. PERMANENT METHODS
- PERMANENT VEGETATION: SEE STANDARD DS3 – DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING: THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIIVE SOIL MATERIAL.
- STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (Gallons/Acre)
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

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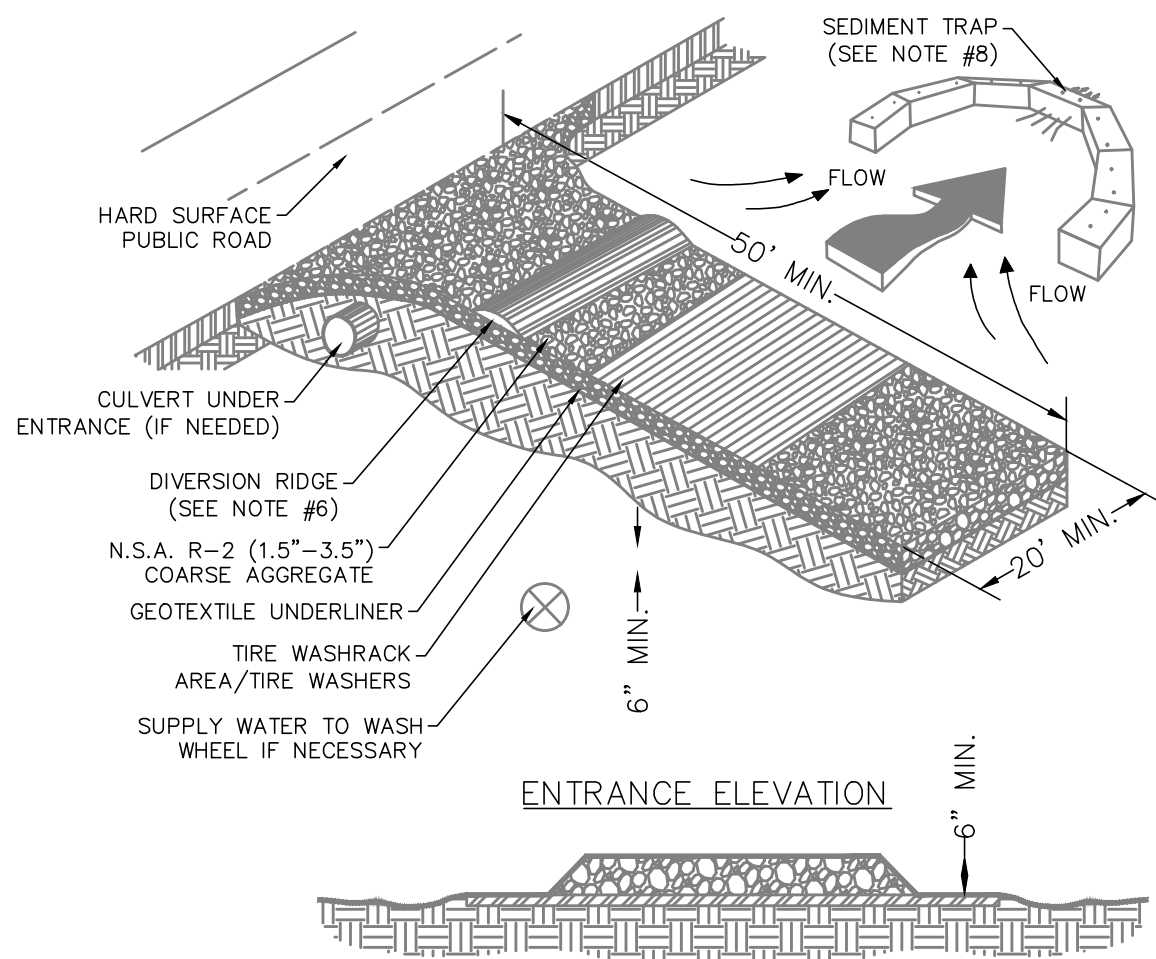
CONSTRUCTION EXIT

N.T.S.

NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"–3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

EXIT DIAGRAM



Ds1

DISTURBED AREA STABILIZATION
(With MULCHING ONLY)

DEFINITION

A TEMPORARY COVER OF PLANT RESIDUES APPLIED TO THE SOIL SURFACE FOR A PERIOD OF SIX (6) MONTHS OR LESS WHEN SEEDING IS NOT PRACTICAL.

CONDITIONS

THESE AREAS USUALLY CANNOT BE STABILIZED BY ORDINARY CONSERVATION TREATMENT AND MANAGEMENT AND IF LEFT UNTREATED CAN CAUSE SEVERE EROSION SEDIMENT DAMAGE.

SPECIFICATIONS

1. INSTALLATION
 - 1.1. INSTALL ALL OTHER REQUIRED BMPs FIRST
 - 1.2. GRADE SITE, IF POSSIBLE, TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
 - 1.3. LOOSEN COMPACTED SOIL, IF POSSIBLE, TO A DEPTH OF THREE (3) INCHES.
 - 1.4. APPLY STRAW OR HAY UNIFORMLY, AS SHOWN IN TABLE 1, BY HAND, AND ANCHOR BY PRESSING INTO SOIL OR USE NETTING.
 - 1.5. MULCH ON SLOPES GREATER THAN 3% SHOULD BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1) OR OTHER SUITABLE TACKIFIER.
 - 1.6. WOOD WASTE ON SLOPES FLATTER THAN 3:1 DO NOT NEED ANCHORING.
2. MAINTENANCE
 - 2.1. ADD MULCH AS NEEDED TO MAINTAIN THE SUGGESTED DEPTH.
 - 2.2. IF ORGANIC MULCH IS TO BE LEFT AND INCORPORATED INTO THE SOIL, APPLY 20–30 POUNDS OF NITROGEN IN ADDITION TO THE FERTILIZER REQUIRED FOR VEGETATION.

MATERIAL STRAW OR HAY	RATE 2.5 TON/ACRE	DEPTH 6" TO 10"
WOOD WASTE CHIPS, SAWDUST BARK	6 TO 9 TON/ACRE	2" TO 3"
CUTBACK ASPHALT	12 GAL/ACRE OR .25 GAL/SQ YD	2" TO 3"
POLYETHYLENE FILM	SECURE WITH SOIL ANCHORS, WEIGHTS	2" TO 3"
CUTBACK ASPHALT	SEE MANUFACTURER'S RECOMMENDATIONS	2" TO 3"
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	2" TO 3"

Ds2

DISTURBED AREA STABILIZATION
(WITH TEMPORARY SEEDING)

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

PURPOSE

- TO REDUCE RUNOFF AND SEDIMENT DAMAGE OF DOWNSTREAM RESOURCES
- TO PROTECT THE SOIL SURFACE FROM EROSION
- TO IMPROVE WILDLIFE HABITAT
- TO IMPROVE AESTHETICS
- TO IMPROVE TILT, INFILTRATION AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS.

CONDITIONS

THIS PRACTICE IS APPLICABLE ON AREAS SUBJECT TO EROSION FOR UP TO SIX MONTHS OR UNTIL THE ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATIVE COVER. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ENSURE ECONOMICAL AND EFFECTIVE STABILIZATION.

SPECIFICATIONS

1. GRADING AND SHAPING
 - 1.1. EXCESSIVE WATER RUN-OFF MUST BE CONTROLLED BY PLANNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BASINS AND OTHERS.
 - 1.2. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.
2. SEEDBED PREPARATION
 - 2.1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED.
 - 2.2. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAIN.
 - 2.3. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
3. LIME AND FERTILIZER
 - 3.1. AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION.
 - 3.2. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED.
 - 3.3. ON SOILS OF VERY LOW FERTILITY, USE 500 TO 700 POUNDS OF 10–10–10 FERTILIZER OR THE EQUIVALENT PER ACRE (12–16 LBS./1,000SQ.FT.). IF THE SITE WILL PERMIT, APPLY BEFORE LAND PREPARATION AND DISK, RIP OR CHISEL TO INCORPORATE.
4. SEEDING: SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR.
5. IRRIGATION
 - 5.1. DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.
 - 5.2. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL ENSURE GERMINATION OF THE SEED.
 - 5.3. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	ALONE		IN MIXTURE		PLANTING DATES ** COASTAL AREA
	RATE PER 1,000 SQ.FT.	RATE PER ACRE *	RATE PER 1,000 SQ.FT.	RATE PER ACRE *	
Barley	3.3 lbs.	3 bushels	0.6 lbs.	1/2 bushel	9/1–12/31
Annual Lespedeza	0.9 lbs.	40 lbs.	0.2 lbs.	10 lbs.	1/15–3/15
Weeping Lovegrass	0.1 lbs.	4 lbs.	0.05 lbs.	2 lbs.	2/14–6/15
Browntop Millet	0.9 lbs.	40 lbs.	0.2 lbs.	10 lbs.	4/1–7/15
Pearl Millet	1.1 lbs.	50 lbs.	NOT RECOMMENDED FOR MIXTURES		4/1–8/31
Oats	2.9 lbs.	4 bushels	0.7 lbs.	1 bushel	9/1–11/30
Rye	3.9 lbs.	3 bushels	0.6 lbs.	1/2 bushel	9/1–2/28
Ryegrass	0.9 lbs.	40 lbs.	NOT TO BE USED IN MIXTURES		8/15–3/31
Sudangrass	1.4 lbs.	60 lbs.	NOT RECOMMENDED FOR MIXTURES		3/1–7/31
Triticale	3.3 lbs.	3 bushels	0.6 lbs.	1/2 bushel	1/1–1/31, 9/15–10/15, 12/15–12/31
Wheat	4.1 lbs.	3 bushels	0.7 lbs.	1/2 bushel	10/15–1/31

* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES

** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.

CONSTRUCTION SCHEDULE

ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	MONTH 10	MONTH 11	MONTH 12	MONTH 13
CLEARING & GRUBBING	/	/	/	/	/	/	/	/	/	/	/	/	/
EROSION CONTROL DEVICES	/	/	/	/	/	/	/	/	/	/	/	/	/
GRADING	/	/	/	/	/	/	/	/	/	/	/	/	/
STORM DRAINAGE	/	/	/	/	/	/	/	/	/	/	/	/	/
WATER, SEWER, UTILITIES	/	/	/	/	/	/	/	/	/	/	/	/	/
PAVING	/	/	/	/	/	/	/	/	/	/	/	/	/
FINE GRADING & LANDSCAPING	/	/	/	/	/	/	/	/	/	/	/	/	/
TEMPORARY GRASSING AND TYPE OF GRASS	PEARL MILLET (APR–AUG) RYEGRASS, ANNUAL (SEP–MAR)												
FINAL GRASSING	SEE NOTE BELOW												

NOTE: FINAL GRASSING SHALL CONSIST OF SODDING ALL DISTURBED AREAS AFTER BUILDING CONSTRUCTION IS COMPLETED. IF ALL AREAS ARE NOT SODDED, THE FOLLOWING GRASSES SHALL BE PLANTED UNTIL PERMANENT VEGETATIVE COVER CAN BE ESTABLISHED:
BROWNTOP MILLET–JUNE THROUGH OCTOBER
UNHULLED BERMUDA–NOVEMBER THROUGH JANUARY
HULLED BERMUDA–FEBRUARY THROUGH MAY



CITY OF VALDOSTA
ENGINEERING DEPARTMENT

LAKELAND AVENUE
DRAINAGE IMPROVEMENTS

REVISIONS

ISS	DATE
DRFT	9/10/25
DRFT	9/29/25

ESPC DETAILS
(1 OF 3)

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DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

- TO PROTECT THE SOIL FROM EROSION
- TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS.
- TO IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES.
- TO IMPROVE AESTHETICS.

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING SHALL BE APPLIED TO ALL AREAS AT FINAL GRADE. "FINAL STABILIZATION" MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROPPED ANNUAL VEGETATION AND A SEEDING OF A BAREOT CROPPED ANNUAL VEGETATION). FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. FOR LINEAR CONSTRUCTION PROJECTS, THE LAND USE FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. UNTIL THIS STANDARD IS SATISFIED, PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS.

1. GRADING AND SHAPING
1.1. GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.
1.2. WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING, AND MAINTENANCE OF VEGETATION.
2. LIME AND FERTILIZER RATES AND ANALYSIS
2.1. AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
2.2. LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "GROUND LIMESTONE." GROUND LIMESTONE IS DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE, NOT LESS THAN 50 PERCENT WILL PASS THROUGH A 40-MESH SIEVE, AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.
2.3. AGRICULTURAL LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "FINELY GROUND LIMESTONE." FINELY GROUND LIMESTONE IS DOLOMITIC LIMESTONE GROUND SO THAT 98 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.
3. LIME AND FERTILIZER APPLICATION
3.1. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.
3.2. FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING.
3.3. WHEN CONVENTIONAL SEEDING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED SEPARATELY IN ONE OF THE FOLLOWING WAYS:
3.3.1. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
3.3.2. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
3.3.3. BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
3.3.4. A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.
4. PLANT SELECTION
4.1. PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING, METHOD OF PLANTING, AND THE NEEDS AND DESIRES OF THE LAND USER.
4.2. SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE COMMON BERMUDA AND WEEPING LOVEGRASS.
4.3. OTHER PERENNIALS SUCH AS BAHIA GRASS AND SERICEA LESPEDEZA, ARE SLOW TO BECOME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER PERENNIAL SPECIES. THE ADDITIONAL SPECIES WILL PROVIDE QUICK COVER AND AMPLE SOIL PROTECTION UNTIL THE TARGET PERENNIAL SPECIES BECOME ESTABLISHED.
4.4. WHEN SELECTION OF AN ADDITIONAL COMPANION CROPS, ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A COMMON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID-SUMMER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENT AND GROWING SPACE. A HIGH SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE ESTABLISHMENT OF PERENNIAL SPECIES.
4.5. RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.
5. SEEDBED PREPARATION
5.1. SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS FOR BROADCAST PLANTINGS:
5.2. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS USED.
5.3. TILLAGE SHOULD BE DONE WITH ANY SUITABLE EQUIPMENT.
5.4. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
5.5. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE WILL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.
6. PLANTING
6.1. HYDRAULIC SEEDING
MIX THE SEED, INOCULANT, FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.
6.2. CONVENTIONAL SEEDING
SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRME SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH $\frac{1}{8}$ TO $\frac{1}{4}$ INCH OF SOIL FOR SMALL SEED AND $\frac{1}{2}$ TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.
6.3. NO-TILL SEEDING
NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.
7. MULCHING
7.1. MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED.
7.2. DRY STRAW OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2½ TONS PER ACRE. SERICEA LESPEDEZA HAY SHALL BE APPLIED AT THE RATE OF 3 TONS PER ACRE.
7.3. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
7.4. BITUMINOUS TREATED CELLULOSE OR BITUMINOUS TREATED Roving WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER.
7.5. WHEN USING TEMPORARY EROSION CONTROL, BLANKETS OR BLOCK SOO, MULCH IS NOT REQUIRED.
7.6. BITUMINOUS TREATED Roving MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED Roving SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
7.7. WOOD CELLULOSE MULCH OR BITUMINOUS TREATED Roving SHALL BE APPLIED TO PREVENT GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.
8. IRRIGATION
8.1. IF WATER IS APPLIED, IT MUST BE AT A RATE NOT CAUSING RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO A DEPTH THAT WILL ENSURE GERMINATION OF THE SEED.
9. USE AND MANAGEMENT
9.1. MOW SERICEA LESPEDEZA ONLY AFTER PROOF TO ENSURE THAT THE SEEDS ARE MATURE. MOW BETWEEN NOVEMBER AND MARCH.
9.2. BERMUDAGRASS AND BAHIAGRASS MAY BE MOWED AS DESIRED. MAINTAIN AT LEAST 6 INCHES OF TOP GROWTH UNDER ANY USE AND MANAGEMENT. MODERATE USE OF TOP GROWTH IS DESIRED AFTER ESTABLISHMENT.
9.3. EXCLUDE TRAFFIC UNTIL THE PLANTS ARE WELL ESTABLISHED.

* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
 ** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.
 *** PLANT WITH TEMPORARY COVER SUCH AS WINTER ANNUALS.
 *** DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.

DISTURBED AREA STABILIZATION (WITH SODDING)

A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

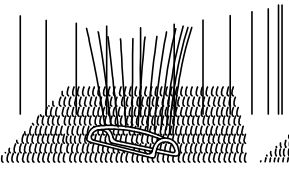
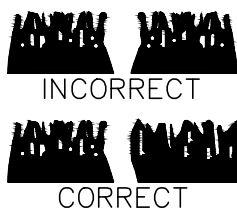
- TO ESTABLISH IMMEDIATE GROUND COVER.
- TO REDUCE RUNOFF AND EROSION
- TO IMPROVE AESTHETICS AND LAND VALUE
- TO REDUCE DUST AND SEDIMENTS
- TO STABILIZE WATERWAYS, CRITICAL AREAS
- TO FILTER SEDIMENTS, NUTRIENTS AND BUGS
- TO REDUCE DOWNSTREAM COMPLAINTS
- TO REDUCE LIKELIHOOD OF LEGAL ACTION
- TO REDUCE LIKELIHOOD OF WORK STOPPAGE DUE TO LEGAL ACTION
- TO INCREASE "GOOD NEIGHBOR" BENEFITS

THIS APPLICATION IS APPROPRIATE FOR AREAS WHICH REQUIRE IMMEDIATE VEGETATIVE COVERS, DROP INLETS, GRASS SWALES, AND WATERWAYS WITH INTERMITTENT FLOW.

1. SOIL PREPARATIONS—
 - 1.1. BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS.
 - 1.2. TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DON'T USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS.
 - 1.3. MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR TABLE 6-6.1.
2. INSTALLATION—
 - 2.1. LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD (SEE FIGURE BELOW).
 - 2.2. ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS. INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SOIL.
 - 2.3. IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION.
 - 2.4. SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.
3. MATERIALS—
 - 3.1. SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE.
 - 3.2. SOD SHOULD BE MACHINE CUT AND CONTAIN $\frac{3}{4}$ " ($\pm\frac{1}{8}$ ") OF SOIL, NOT INCLUDING SHOOTS OR THATCH.
 - 3.3. SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN $\pm 5\%$. TORN OR UNEVEN PADS SHOULD BE REJECTED.
 - 3.4. SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
 - 3.5. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
 - 3.6. THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO TABLE 6-6.2.
4. MAINTENANCE—
 - 4.1. RE-SOD AREAS WHERE AN ADEQUATE STAND OF SOD IS NOT OBTAINED. NEW SOD SHOULD BE MOWED SPARINGLY. GRASS HEIGHT SHOULD NOT BE CUT LESS THAN 2"-3" OR AS SPECIFIED (SEE FIGURE BELOW).
 - 4.2. APPLY ONE TON OF AGRICULTURAL LIME AS INDICATED BY SOIL TEST OR EVERY 4-6 YEARS. FERTILIZE GRASSES IN ACCORDANCE WITH SOIL TESTS OR TABLE 6-6.3.

AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	NITROGEN TOP DRESSING RATE (LBS/ACRE)
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12	1500	15-100
		6-12-12	1000	-
		10-10-10	400	30
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12	1500	50-100
		6-12-12	800	50-100
		10-10-10	400	30

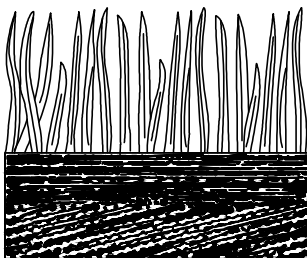


ROLL SOD
IMMEDIATELY TO
ACHIEVE FIRM
CONTACT WITH
THE SOIL.

WATER TO A DEPTH
OF 4" AS NEEDED.
WATER WELL AS
SOON AS THE SOD
IS LAID.

MOW WHEN THE SOD IS ESTABLISHED – IN 2-3 WEEKS. SET THE MOWER HIGH (2"–3").

APPEARANCE OF GOOD SOD



SHOOTS (OR GRASS BLADES) – GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2”–3” CUTTING HEIGHT.
THATCH– GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2” THICK.
ROOT ZONE – SOIL AND ROOTS SHOULD BE 1/2” – 3/4” THICK, WITH DENSE ROOT MAT FOR STRENGTH.

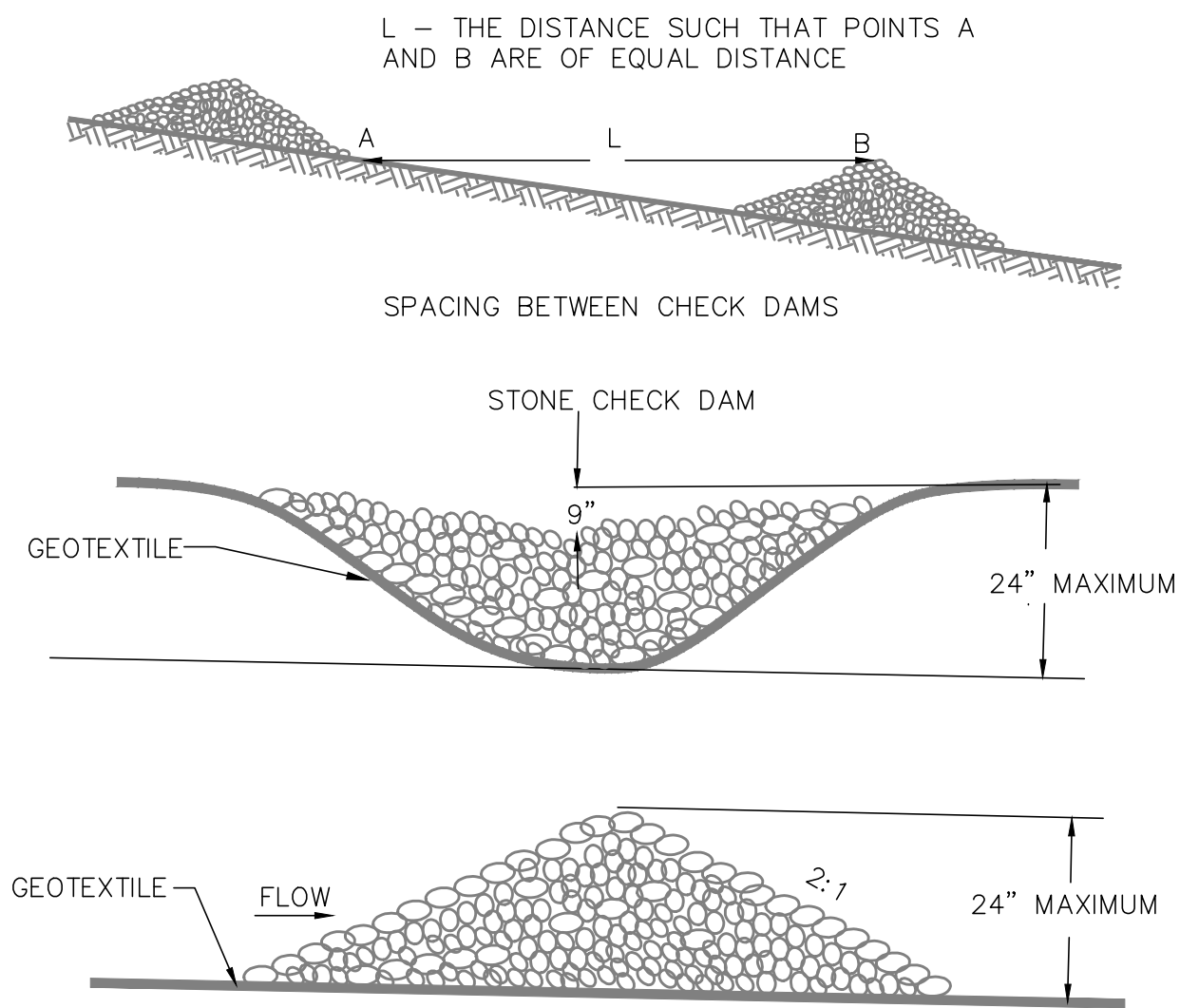
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CHECKDAM W/ STONE

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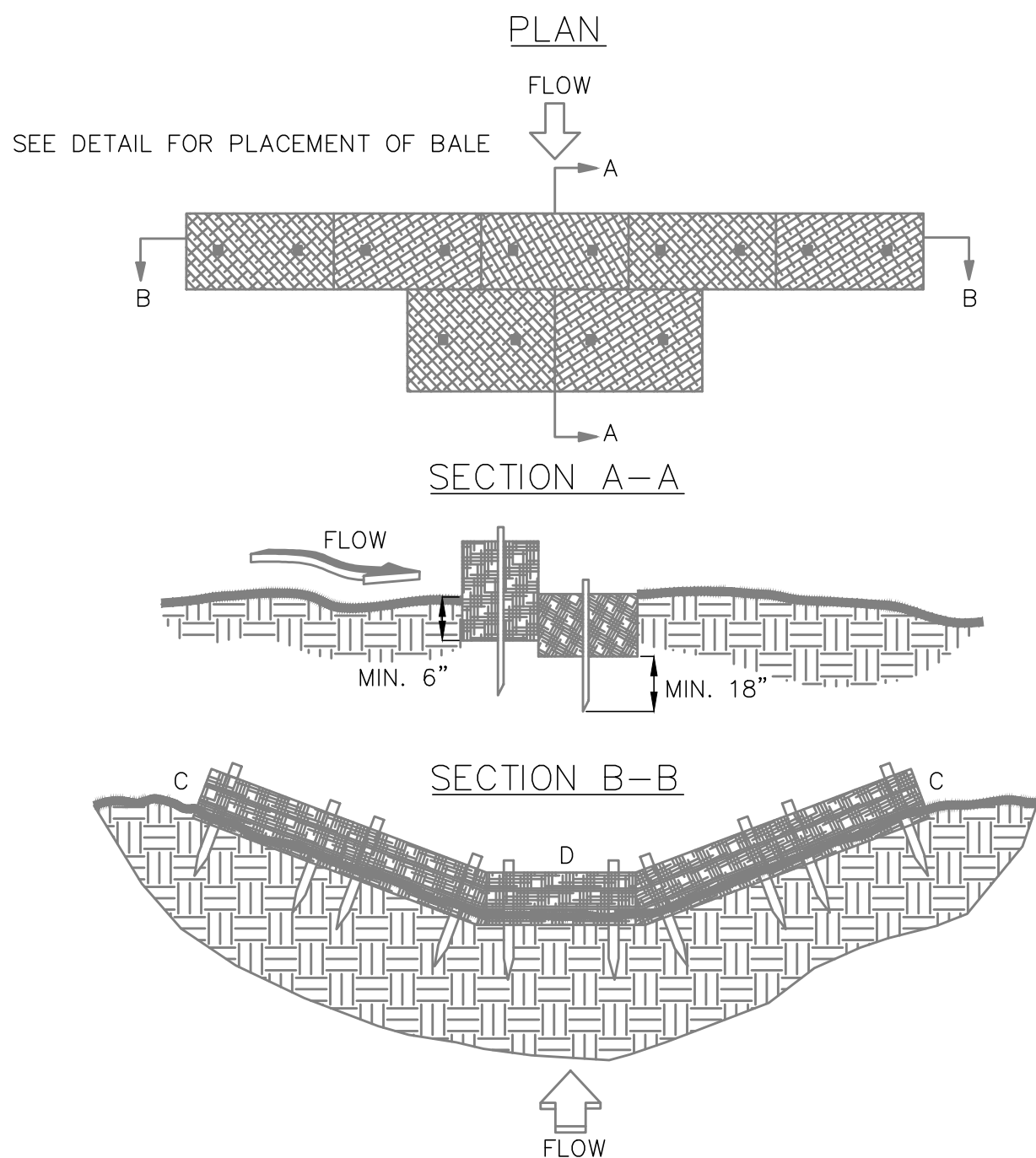


- NOTES:
- CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
 - THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
 - THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
 - THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
 - THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
 - GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

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CHECKDAM W/ HAYBALES

N.T.S.

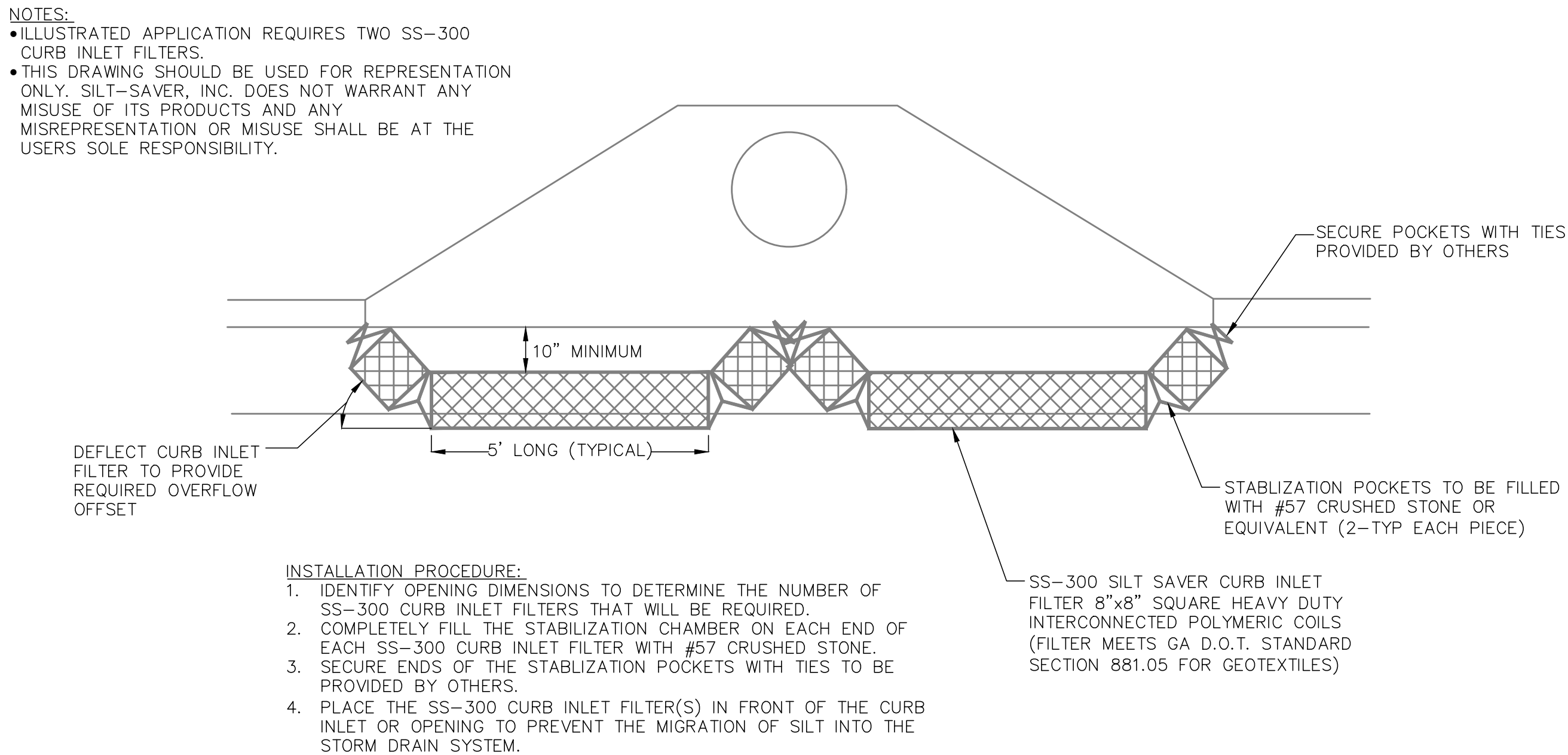


- NOTES:
- BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - BALES SHOULD BE STAKED TO THE SPECIFIED DEPTH USING #4 REBAR.
 - REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
 - POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.
 - CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED.
 - AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

Sd2-P

INLET PROTECTION

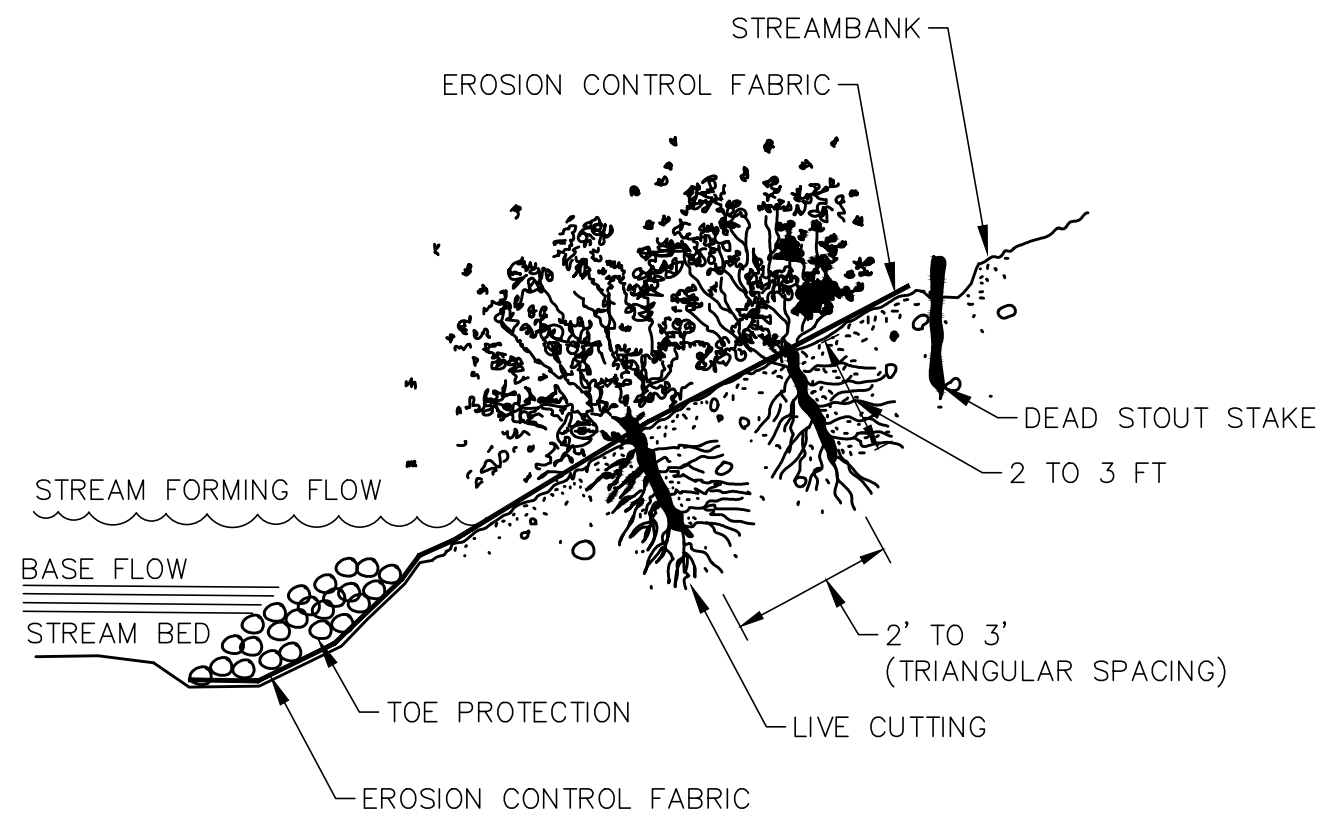
SILT-SAVER® SS-300 CURB INLET FILTER



Sb

STREAMBANK STABILIZATION

N.T.S.



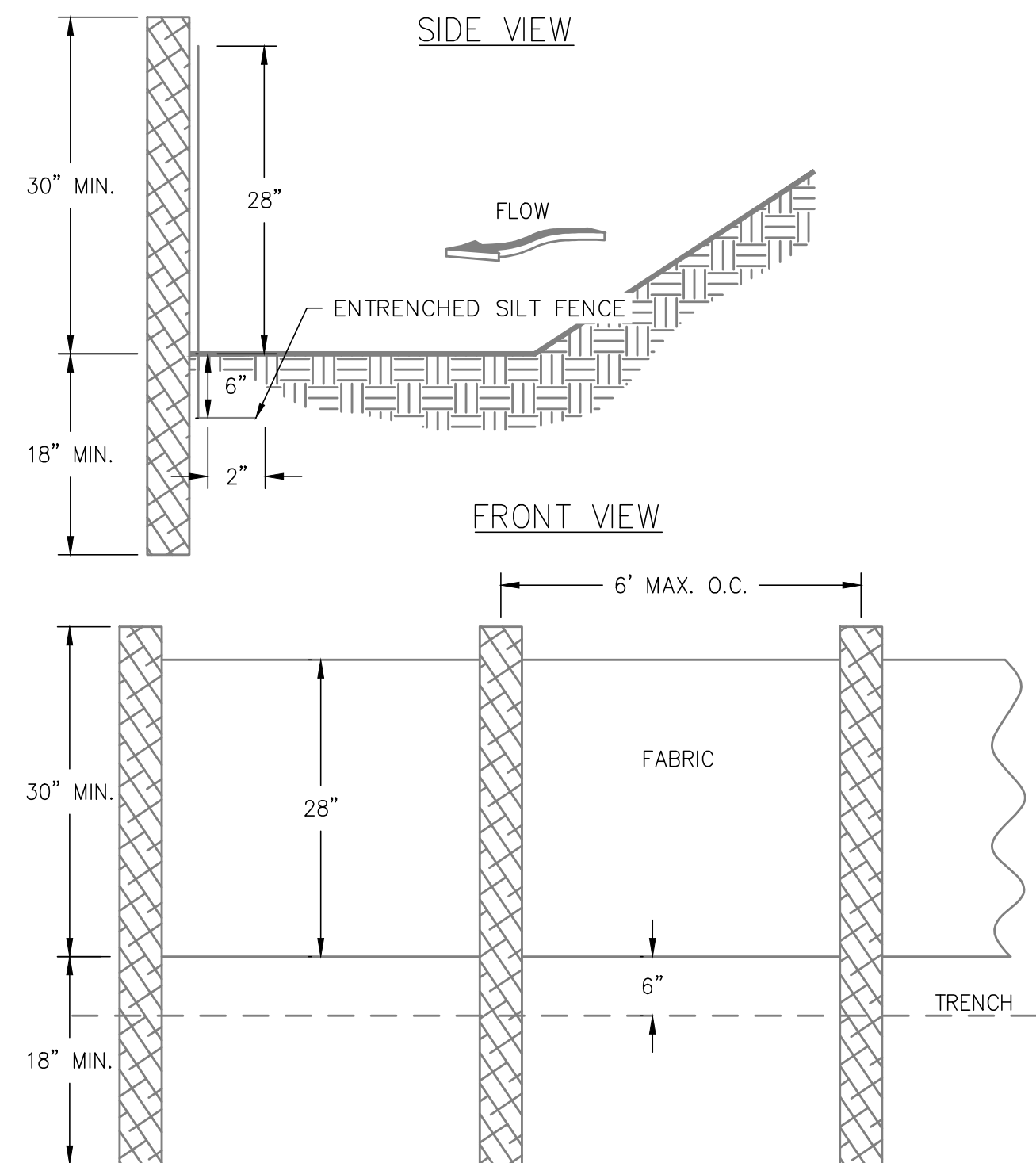
NOTE:

ROOTED/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE AT THE TIME OF INSTALLATION.

SD1-NS

SEDIMENT BARRIER - NON-SENSITIVE

N.T.S.

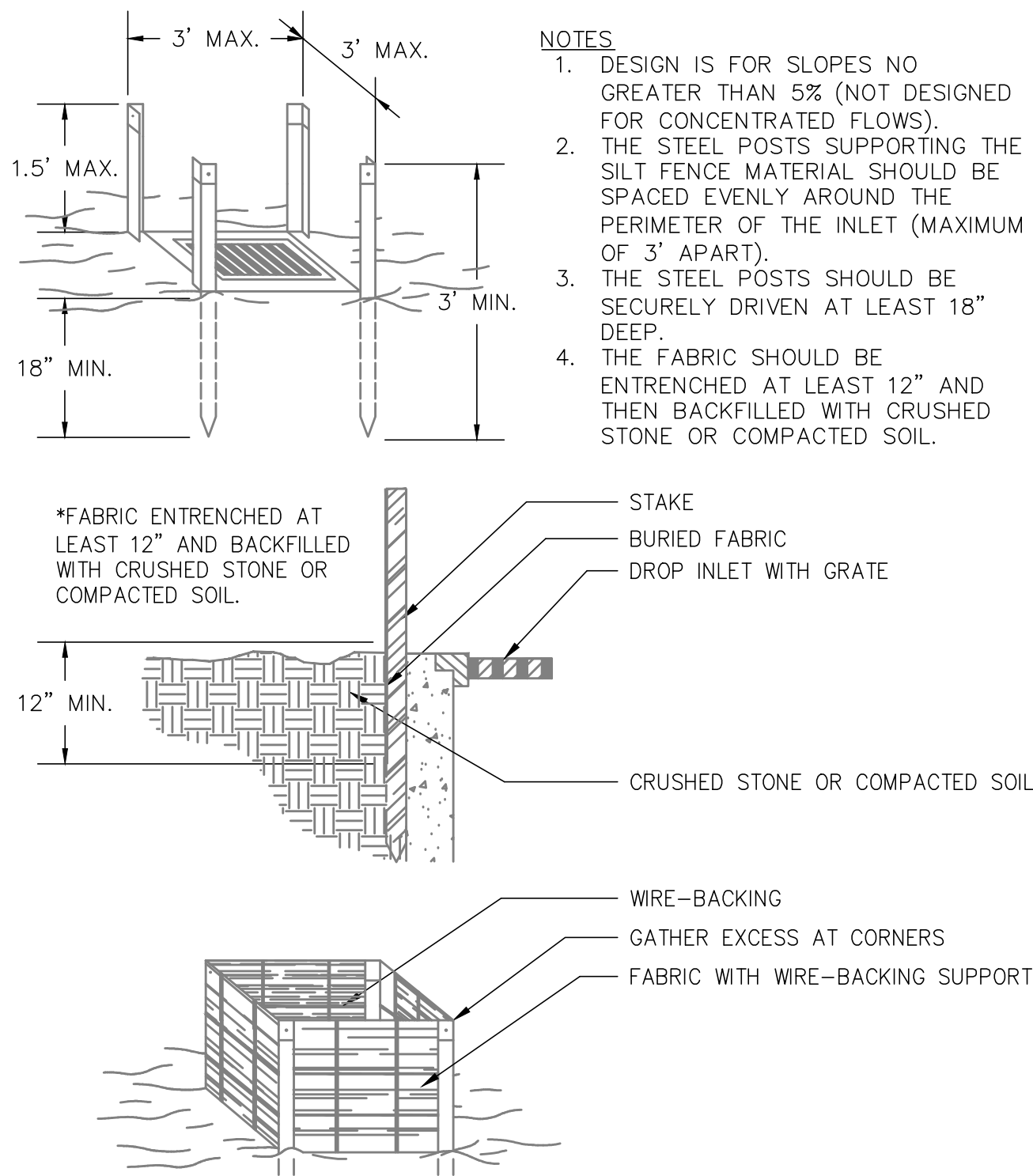


- NOTES:
- USE 1.5" X 1.5" OAK POSTS, 3" DIAMETER SOFTWOOD DOWELS, 2" X 4" SOFTWOOD BOARDS, OR 1.15 LB/FT (MIN.) STEEL POSTS.

Sd2-F

FABRIC INLET PROTECTION

N.T.S.



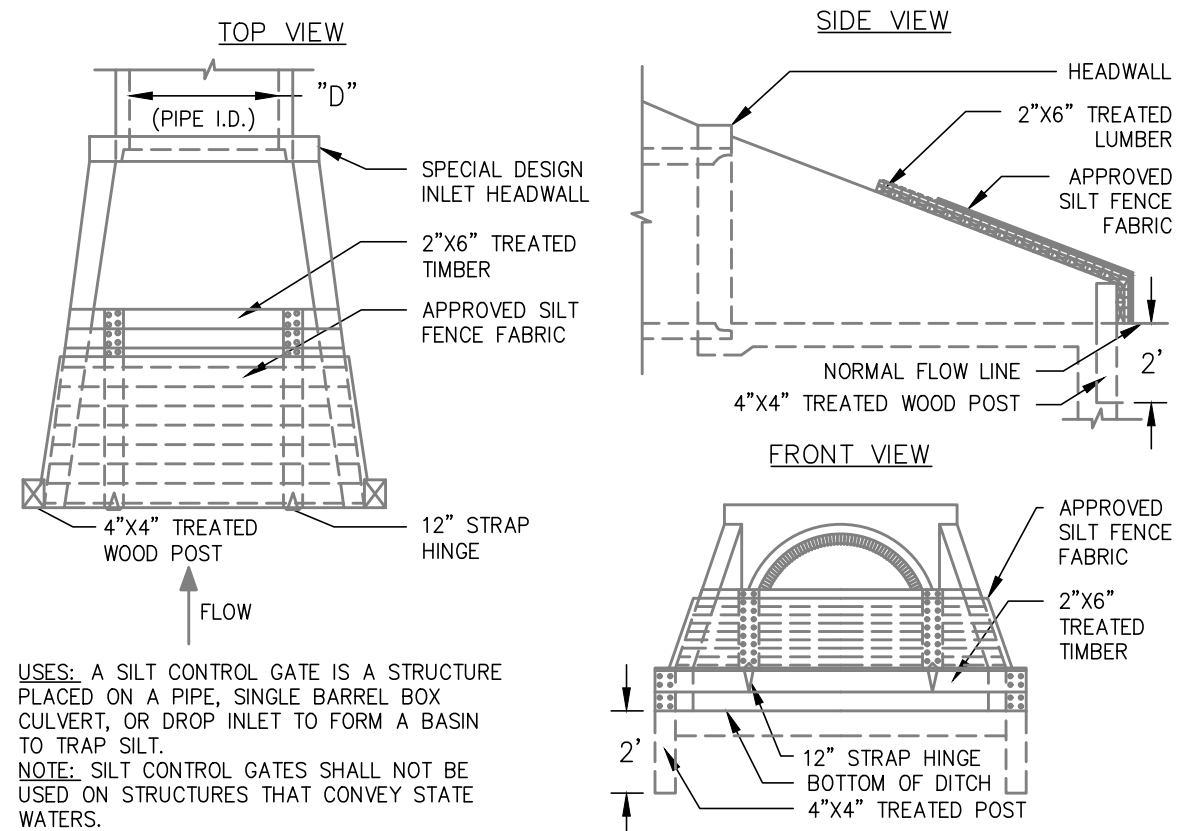
Rt-B

RETROFIT

N.T.S.

TYPE 3: FOR FLARED END SECTIONS AND TAPERED HEADWALLS

- NOTES:
- SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
 - BOARDS SHOULD HAVE A 0.5" TO 1" SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
 - MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
 - POSTS FOR THE SILT CONTROL GATE SHALL BE 4" X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
 - AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STAPLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
 - SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
 - ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.



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LAKELAND AVENUE

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ESPC DETAILS
(3 OF 3)

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SHEET 21 OF 24



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