

CSJ #	1685-06-043
District #	HOU-12
Code Chart 64 #	50080
Project Name	SH 6 & Voss Rd

STATE OF TEXAS §

COUNTY OF TRAVIS §

AGREEMENT For A LOCAL ON-SYSTEM IMPROVEMENT PROJECT

THIS AGREEMENT (Agreement) is made by and between the State of Texas, acting by and through the Texas Department of Transportation called the "State", and the **Fort Bend County**, acting by and through its duly authorized officials, called the "Local Government." The State and Local Government shall be collectively referred to as "the parties" hereinafter.

WITNESSETH

WHEREAS, the Texas Transportation Code, Section 201.103 establishes that the State shall design, construct and operate a system of highways in cooperation with local governments and Section 222.052 authorizes the Texas Transportation Commission to accept contributions from political subdivisions for development and construction of public roads and the state highway system within the political subdivision; and

WHEREAS, the Texas Transportation Commission passed Minute Order Number **116073**, authorizing the State to accept Local Government funded projects performed on the state highway system. The project covered by this Agreement includes only work within the state right of way as described in the Agreement, Article 2, Scope of Work (Project); and,

WHEREAS, the Governing Body of the Local Government has approved entering into this Agreement by resolution, ordinance, or commissioners court order dated **01/25/2022**, which is attached to and made a part of this Agreement as Attachment A, Resolution, Ordinance, or Commissioners Court Order (Attachment A) for the improvement covered by this Agreement. A map showing the Project location appears in Attachment B, Project Location Map (Attachment B), which is attached to and made a part of this Agreement.

NOW, THEREFORE, in consideration of the premises and of the mutual covenants and agreements of the parties, to be by them respectively kept and performed as set forth in this Agreement, it is agreed as follows:

AGREEMENT

1. Period of the Agreement

This Agreement becomes effective when signed by the last party whose signing makes the Agreement fully executed. This Agreement shall remain in effect until the completed Project is accepted by the State or unless terminated as provided below.

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2. **Scope of Work**

The project consists of the design and construction of a right turn lane from east bound Voss Road into SH 6 in Fort Bend County, Texas. All design and construction work will be provided by the Local Government, its consultant, or its contractor. There will be no exchange of right of way or utilities.

3. **Local Project Sources and Uses of Funds**

- A. The total estimated cost of the Project is shown in Attachment C, Local On-System Improvement Project Budget (Attachment C), which is attached to and made a part of this Agreement. The estimated funds from the Local Government are shown in Attachment C. The State will pay for no Project costs performed by or managed by Local Government under this Agreement.
- B. Attachment C shows how necessary resources for completing the Project will be provided by major cost categories. These categories may include but are not limited to: (1) costs of real property (right of way); (2) costs of utility work; (3) costs of environmental assessment and remediation; (4) cost of preliminary engineering and design; (5) cost of construction and construction management; and (6) any other Project costs.
- C. The Local Government shall be solely responsible for all of its costs associated with the Project provided for in this Agreement. The Local Government shall be responsible for cost overruns for the Project in excess of the estimated amount to be paid by the Local Government on Attachment C. The Local Government shall also be responsible for direct and indirect costs incurred by the State related to performance of this project if so indicated on Attachment C. If the State determines that the on-system improvements are of significant operational benefit to the State, the State may waive its direct or indirect costs. The State's waiver of its direct or indirect costs shall be indicated on Attachment C by showing the State as responsible for these costs. When the Local Government is responsible for the State's direct or indirect costs, the amount indicated on Attachment C is a fixed fee and not subject to adjustment except through the execution of an amendment to this Agreement.
- D. Prior to the performance of any engineering review work by the State, the Local Government shall pay to the State the amount of direct and indirect State costs specified in Attachment C.
- E. Whenever funds are paid by the Local Government to the State under this Agreement, the Local Government shall remit a check or warrant made payable to the "Texas Department of Transportation" or may use the State's Automated Clearing House (ACH) system for electronic transfer of funds in accordance with instructions provided by TxDOT's Financial Management Division. The funds shall be deposited and managed by the State and are not refundable.
- F. The Local Government will begin construction on the Project within 12 months after execution of the Agreement.
- G. The Local Government will complete construction and receive the State's acceptance of the project within 36 months after the date the State authorizes in writing for the Local Government to commence construction of the Project.
- H. If the Local Government chooses not to or fails to complete the work once construction on the Project commences, the State may terminate this Agreement in accordance with

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paragraph 4.C. below. The State may address unfinished construction work as it determines necessary to protect the interests of the State, which includes returning the Project area to its original condition or completing the work using State forces or contractors. The Local Government shall pay all costs incurred by the State under this provision.

4. Termination of this Agreement

This Agreement shall remain in effect until the Project is completed and accepted by the State, unless:

- A. The Agreement is terminated in writing with the mutual consent of the parties;
- B. The State terminates the Agreement in writing due to the Local Government's failure to comply with paragraphs 3.F or 3.G; or
- C. The Agreement is terminated by one party because of a breach, in which case any cost incurred because of the breach shall be paid by the breaching party.

5. Amendments

Amendments to this Agreement due to changes in the character of the work, terms of the Agreement, or responsibilities of the parties relating to the Project may be enacted through a mutually agreed upon, written amendment. Amendments may not include the addition of State or Federal funds. If any funds other than Local Government funds are proposed, this Agreement must be terminated and a new agreement with appropriate terms and clauses executed in its place.

6. Remedies

This Agreement shall not be considered as specifying the exclusive remedy for any Agreement default, but all remedies existing at law and in equity may be availed of by either party to this Agreement and shall be cumulative.

7. Architectural and Engineering Services

The Local Government has responsibility for the performance of architectural and engineering services. The engineering plans shall be developed in accordance with the applicable *State's Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges* and the special specifications and special provisions related to it. The Project design shall, at a minimum conform to applicable State manuals.

The State shall review the plans, specifications, and estimates provided by the Local Government upon completion or at any time deemed necessary by the State. Should the State determine that the complete plans, specifications, and estimates for the Project are not acceptable, the Local Government shall correct the design documents to the State's satisfaction. Should additional specifications or data be required by the State, the Local Government shall redesign the plans and specifications to the State's satisfaction. The costs for additional work on the plans, specifications, and estimates shall be borne by the Local Government.

8. Environmental Assessment and Mitigation

Development of a transportation project must comply with applicable environmental laws. The Local Government is responsible for:

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- A. The identification and assessment of any environmental problems associated with the development of the Project governed by this Agreement.
- B. The cost of any environmental problem's mitigation and remediation.
- C. Providing any public meetings or public hearings required for development of all required environmental documents and obtaining all required permits and approvals.
- D. The preparation of documents required for the environmental clearance of the Project.

Before the advertisement for bids, the Local Government shall provide to the State written documentation from the appropriate regulatory agency or agencies that all environmental clearances and approvals have been obtained.

9. Right of Way and Real Property

The Local Government shall acquire all required right of way and necessary right of entry for performance of the Project in accordance with applicable requirements of the Texas Department of Transportation Right of Way Manual, State law, and Federal law governing the acquisition of real property including but not limited to Title II and Title III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 Title 42 U.S.C.A. Section 4601 et seq. Right of way acquired for improvements to the state highway system shall be acquired in the name of the State. Local Government shall provide right of entry to State personnel and its authorized representatives to areas off the state highway system throughout the duration of the Project for the State to perform inspection and oversight of the Project.

10. Utilities

The Local Government shall be responsible for the adjustment, removal, or relocation of utility facilities for the Project in accordance with applicable State and Federal laws, regulations, rules, policies, and procedures, including any cost to the State of a delay resulting from the Local Government's failure to ensure that utility facilities are adjusted, removed, or relocated before the scheduled beginning of construction. The Local Government will not be reimbursed for the cost of required utility work. The Local Government must obtain advance approval for any variance from established procedures.

11. Compliance with Texas Accessibility Standards and ADA

Local Government shall ensure that the plans for and the construction of the Project are in compliance with standards issued or approved by the Texas Department of Licensing and Regulation (TDLR) as meeting or consistent with minimum accessibility requirements of the Americans with Disabilities Act (P.L. 101-336) (ADA).

12. Construction Responsibilities

- A. The Local Government shall advertise for construction bids, issue bid proposals, receive and tabulate the bids, and award and administer the contract for construction of the Project. Administration of the contract includes the responsibility for construction engineering and for issuance of any change orders, supplemental agreements, amendments, or additional work orders that may become necessary subsequent to the award of the construction contract. Project plans and specifications for improvements on the state highway system must be approved by the State prior to advertising for construction. Upon selection of a contractor and prior to commencing construction

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within the state highway system right of way, the Local Government shall request and obtain written authorization to commence construction of the Project from the State. The Local Government will supervise and inspect all work performed hereunder and provide such engineering inspection and testing services as may be required to ensure that the construction is accomplished in accordance with the approved plans and specifications. All construction change orders impacting the proposed improvements, traffic control, environmental mitigation, or drainage on the state highway system require written pre-approval by the State prior to execution by the Local Government.

- B. Upon completion of the Project, the Local Government will issue and sign a "Notification of Completion" acknowledging the Project's construction completion. A copy will be provided to the State prior to State's final acceptance of the improvements.
- C. Prior to the State's acceptance of the improvements on the state highway system, Local Government shall furnish to the State written certification from a Texas Registered Professional Engineer that the Project was constructed in substantial compliance with the Project's plans, specifications, and quality assurance requirements.

13. Project Maintenance

After Local Government completion of the work and acceptance by the State, the State will be responsible for maintenance of the improvements within the state highway system right of way outside the boundaries of an incorporated city. This obligation may be fulfilled through other agreements signed by the State.

14. Notices

All notices to either party shall be delivered personally or sent by certified or U.S. mail, postage prepaid, addressed to that party at the following address:

Local Government	State
Assistant County Engineer Fort Bend County 301 Jackson Street, Suite 401, Richmond, TX 77469	Director of Contract Services Texas Department of Transportation 125 E. 11 th Street Austin, Texas 78701

All notices shall be deemed given on the date delivered in person or deposited in the mail, unless otherwise provided by this Agreement. Either party may change the above address by sending written notice of the change to the other party. Either party may request in writing that notices shall be delivered personally or by certified U.S. mail, and that request shall be carried out by the other party.

15. Legal Construction

If one or more of the provisions contained in this Agreement shall for any reason be held invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provisions and this Agreement shall be construed as if it did not contain the invalid, illegal, or unenforceable provision.

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16. Responsibilities of the Parties

The State and the Local Government agree that neither party is an agent, servant, or employee of the other party, and each party agrees it is responsible for its individual acts and deeds as well as the acts and deeds of its contractors, employees, representatives, and agents.

17. Ownership of Documents

Upon completion or termination of this Agreement, copies of all documents and data prepared under this Agreement by the Local Government for improvements within the state highway system right of way shall be provided to the State prior to State acceptance of the Project without restriction or limitation on their further use. The originals shall remain the property of the Local Government. At the request of the State, the Local Government shall submit any Project information required by the State in the format directed by the State.

18. Compliance with Laws

The parties shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any manner affecting the performance of this Agreement. When required, the Local Government shall furnish the State with satisfactory proof of this compliance.

19. Sole Agreement

This Agreement constitutes the sole and only agreement between the parties and supersedes any prior understandings or written or oral agreements respecting the Agreement's subject matter.

20. Inspection of Books and Records

The parties to this Agreement shall maintain all books, documents, papers, accounting records, and other documentation relating to costs incurred and engineering inspection and testing services performed under this Agreement and shall make such materials available to the State and the Local Government or their duly authorized representatives for review and inspection at its office during the Agreement period and for seven (7) years from the date of completion of work defined under this Agreement or until any impending litigation or claims are resolved. Additionally, the State and the Local Government and their duly authorized representatives shall have access to all the governmental records that are directly applicable to this Agreement for the purpose of making audits, examinations, excerpts, and transcriptions.

21. Insurance

Before beginning work on the state highway system, the Local Government and its contractor performing the work shall provide the State with a fully executed copy of the State's Form 1560 Certificate of Insurance verifying the existence of coverage in the amounts and types specified on the Certificate of Insurance for all persons and entities working on state right of way. Self-insurance documentation acceptable to the State may be substituted for all or part of the coverage's required for the Local Government. This coverage shall be maintained until all work on the state right of way is complete. If coverage is not maintained, all work on state right of way shall cease immediately, and the State may recover damages and all costs of completing the work.

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22. Pertinent Non-Discrimination Authorities

During the performance of this Agreement, the Local Government, for itself, its assignees, and successors in interest agree to comply with all applicable Federal and State nondiscrimination statutes and authorities.

23. Signatory Warranty

Each signatory warrants that the signatory has necessary authority to execute this Agreement on behalf of the entity represented.

Each party is signing this agreement on the date stated under that party's signature.

THE STATE OF TEXAS

DocuSigned by:



Signature

Kenneth Stewart

Typed or Printed Name

Director of Contract Services


Typed or Printed Title

3/16/2022

Date

THE LOCAL GOVERNMENT

DocuSigned by:



Signature

KP George

Typed or Printed Name

County Judge

Typed or Printed Title

3/11/2022

Date

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ATTACHMENT A
RESOLUTION, ORDINANCE, OR COMMISSIONERS COURT ORDER

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ORDER OF COMMISSIONERS COURT

The Commissioners Court of Fort Bend County, Texas, convened in regular session at a regular term of said Court, open to the public, at the Fort Bend County Courthouse in the City of Richmond, Texas, on January 25, 2022, with a quorum of said Court present:

Whereupon, among other business, the County considered the following:

AN ORDER AUTHORIZING EXECUTION OF AN AGREEMENT FOR A LOCAL ON-SYSTEM PROJECT BETWEEN FORT BEND COUNTY AND THE STATE OF TEXAS ACTING BY AND THROUGH THE TEXAS DEPARTMENT OF TRANSPORTATION FOR A LOCAL PROJECT TO DESIGN AND CONSTRUCT EAST BOUND VOSS ROAD INTO SH 6

Commissioner Meyers introduced an order and moved that Commissioners Court adopt the order. Commissioner Prestage seconded the motion for adoption of the order. The motion, carrying with it the adoption of the order, prevailed by the following vote:

	Yes	No	Abstain
Judge KP George	✓	—	—
Commissioner Vincent Morales	✓	—	—
Commissioner Grady Prestage	✓	—	—
Commissioner Andy Meyers	✓	—	—
Commissioner Ken DeMerchant	—	—	—

The County Judge thereupon announced that the motion had duly and lawfully carried and that the order had been duly and lawfully adopted. The order thus adopted follows:

IT IS ORDERED THAT:

1. The Fort Bend County Judge is authorized to execute on behalf of Fort Bend County the attached Agreement for a Local On-System Improvement Project between Fort Bend County and the State of Texas acting by and through the Texas Department of Transportation to design and construct east bound Voss Road into SH 6.
2. All Fort Bend County officials and employees are authorized to do any and all things necessary or convenient to accomplish the purposes of this order.


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Approved by the Commissioners Court of Fort Bend County, Texas, this 25th day of January, 2022.

FORT BEND COUNTY, TEXAS

By: 
County Judge KP George
KP George, County Judge

ATTEST:


Laura Richard, County Clerk



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ATTACHMENT B
PROJECT LOCATION MAP



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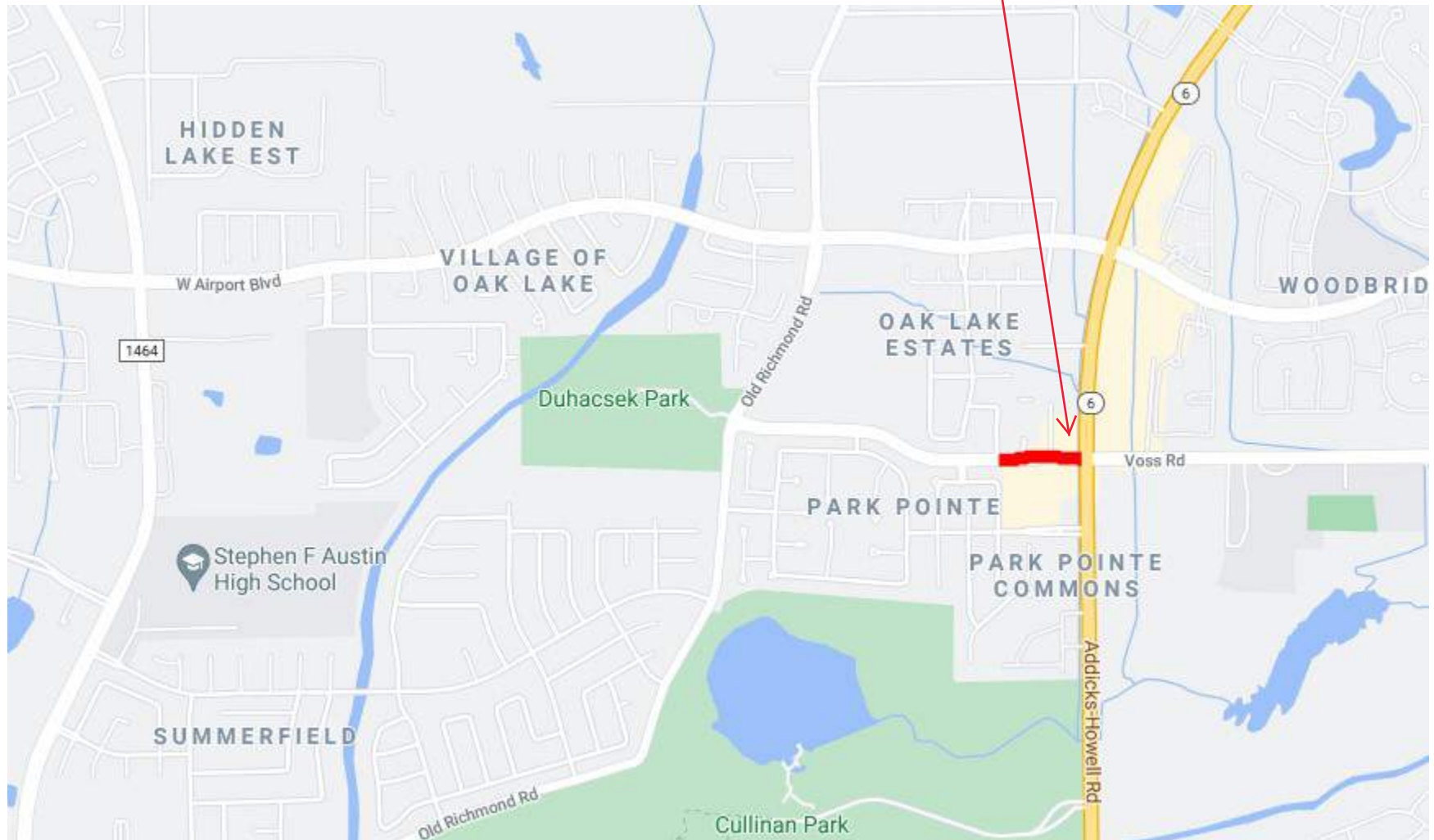
ATTACHMENT C
LOCAL ON-SYSTEM IMPROVEMENT PROJECT BUDGET
(Locally Funded and Performed Project)

The Local Government is responsible for 100% of the costs allocated to it as described below, including overruns.

Description	Estimated Costs	Subtotals
PROJECT PHASES: Work performed by the Local Government or its Consultant or Contractor		
Environmental	\$	
Right of Way	\$	
Engineering	\$42,349.18	
Utility Work	\$	
Construction	\$262,335	
Subtotal for Project Phases		\$304,684.18
DIRECT STATE COSTS:	Paid By: <input type="checkbox"/> Local Government <input checked="" type="checkbox"/> State	
Environmental	\$	
Right of Way	\$	
Engineering	\$1,694.00	
Utility Work	\$	
Construction	\$10,493.40	
Subtotal for Direct State Costs		\$12,187.40
INDIRECT STATE COSTS:	Paid By: <input type="checkbox"/> Local Government <input checked="" type="checkbox"/> State	
Subtotal for Indirect State Costs		\$581.34
TOTAL ESTIMATED COST OF PROJECT		\$317,452.92

\$0.00	Fixed price amount of payment by the Local Government to the State for the State's direct and indirect costs as stated in Article 3, C and D of the Agreement.
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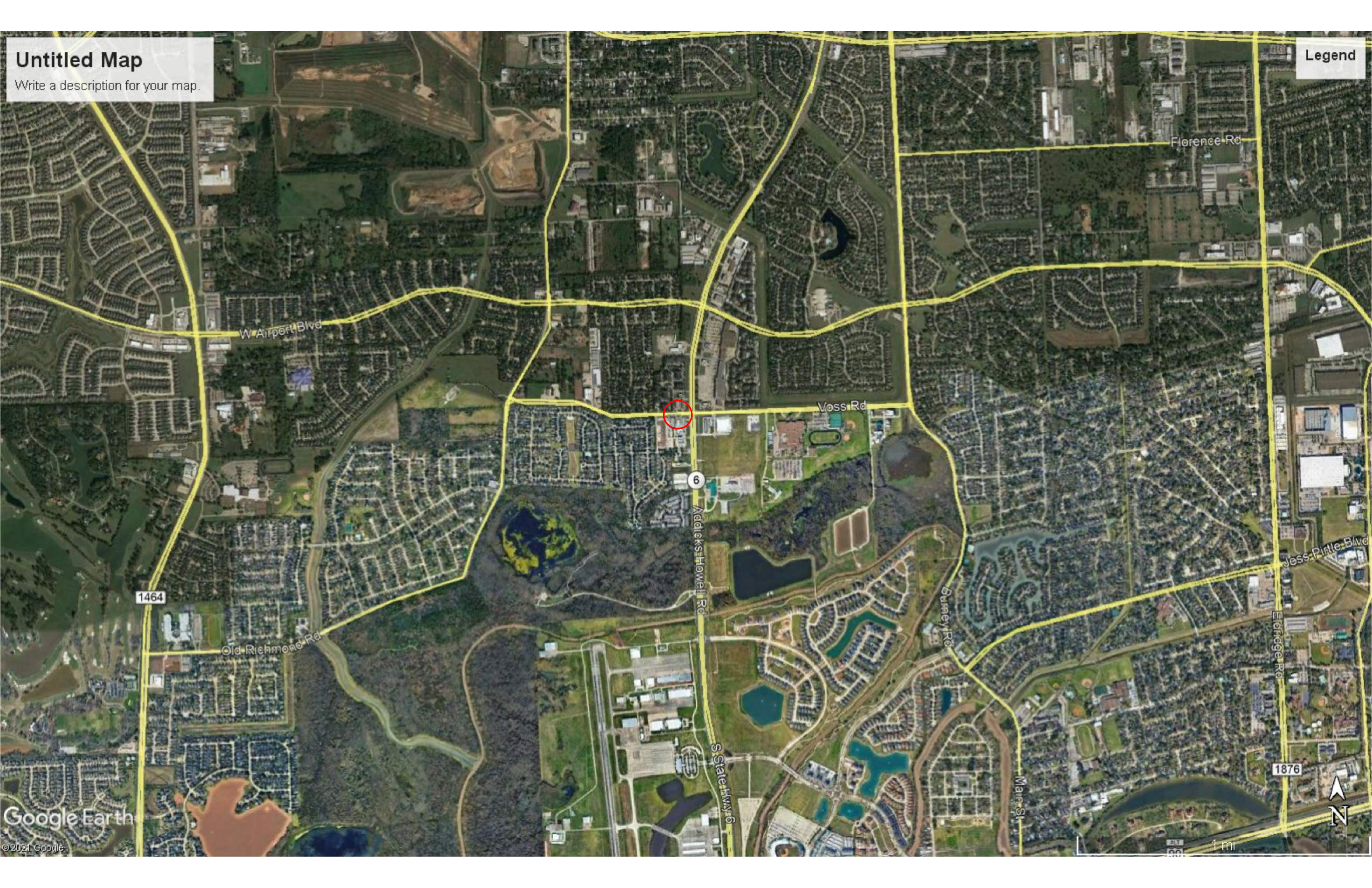
Project Location



Untitled Map

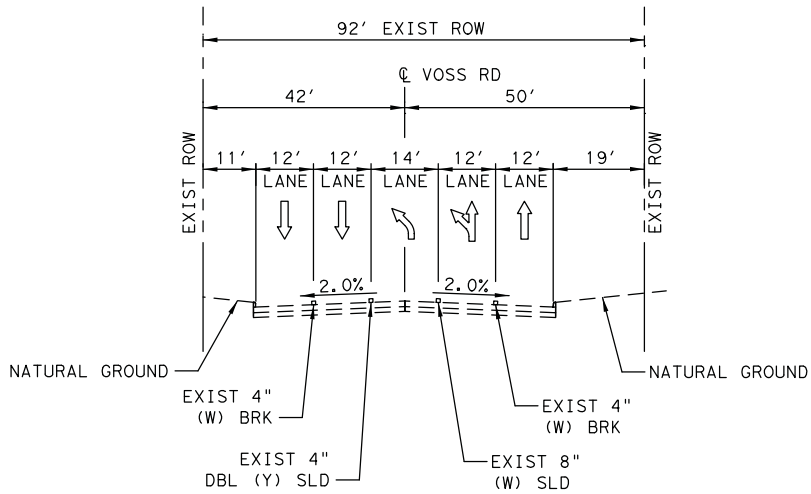
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Legend

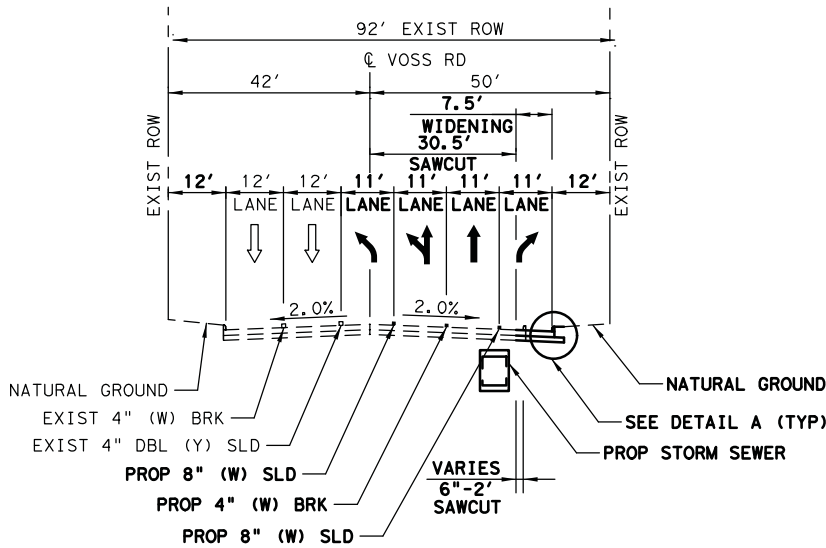


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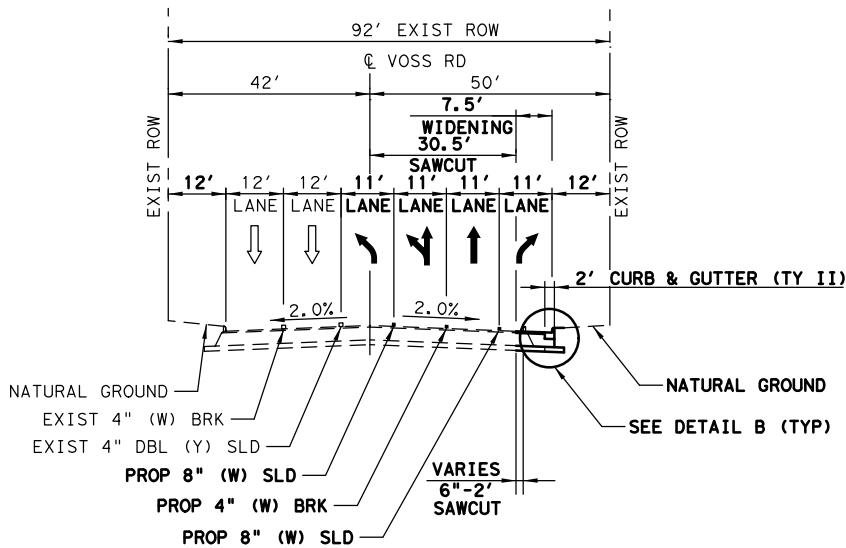
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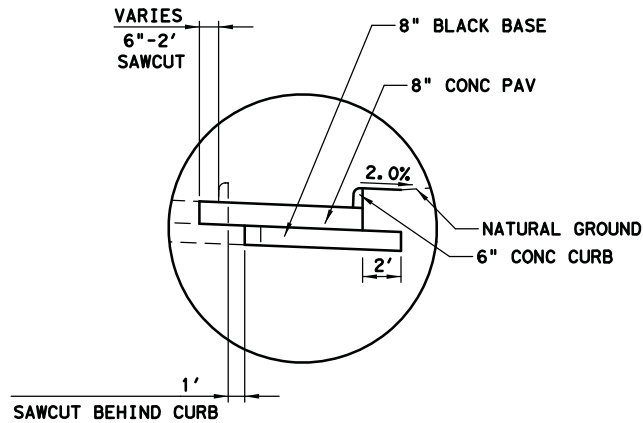
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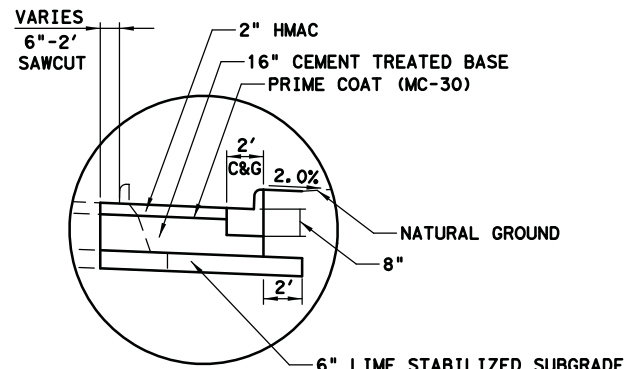
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STA 13+10.62 TO STA 15+83.38



PROP TYPICAL SECTION
STA 15+83.38 TO SH 6



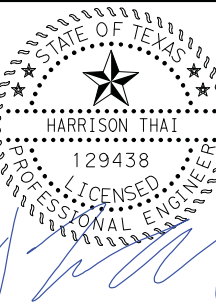
DETAIL A
N. T. S.



DETAIL B
N. T. S.



REV	DATE	BY	DESCRIPTION



10/26/2021

FORT BEND COUNTY
ENGINEERING DIVISION

BGE BGE, Inc.
10777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-558-8700 • www.bgeinc.com
TBPE Registration No. F-1046

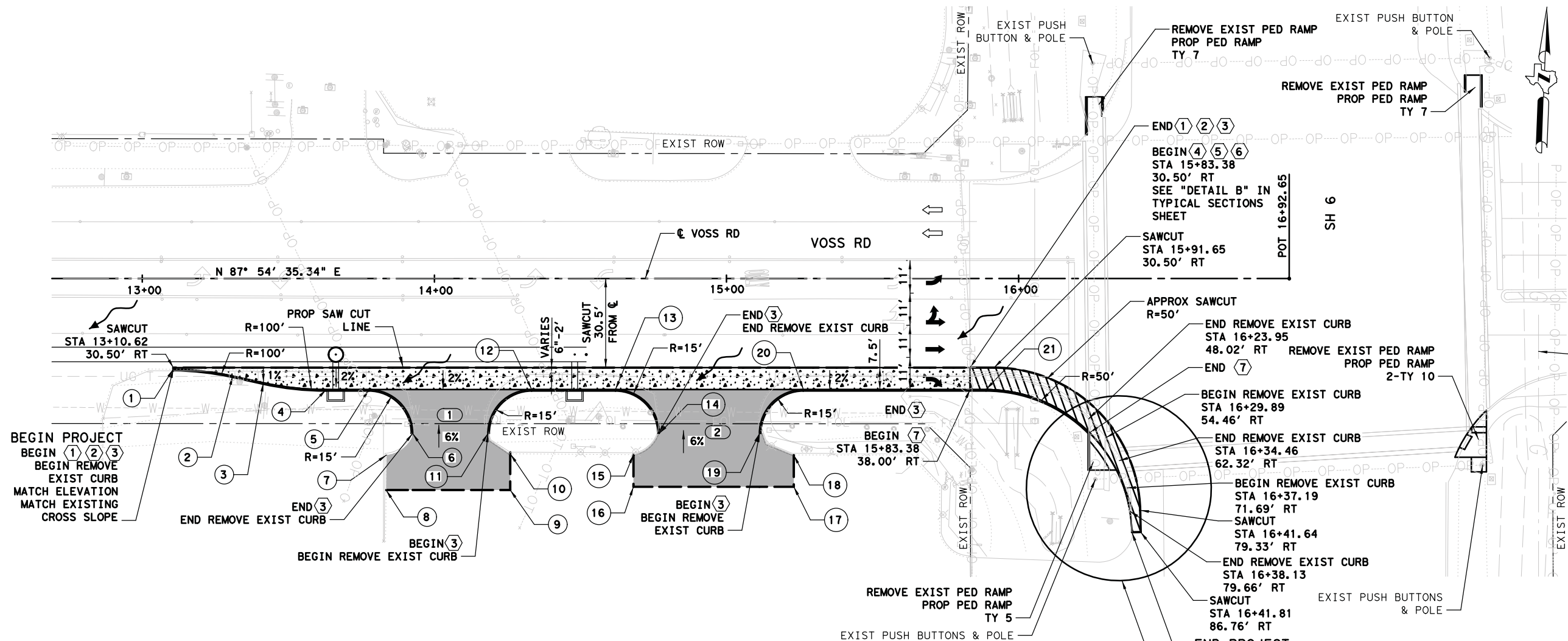
VOSS RD
TYPICAL SECTIONS

SHEET 1 OF 1

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DRAWN BY:
DATE:
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VOSS RD

CHAIN VOSS CL CONTAINS:
VOSS01 VOSS02

BEGINNING CHAIN VOSS CL DESCRIPTION

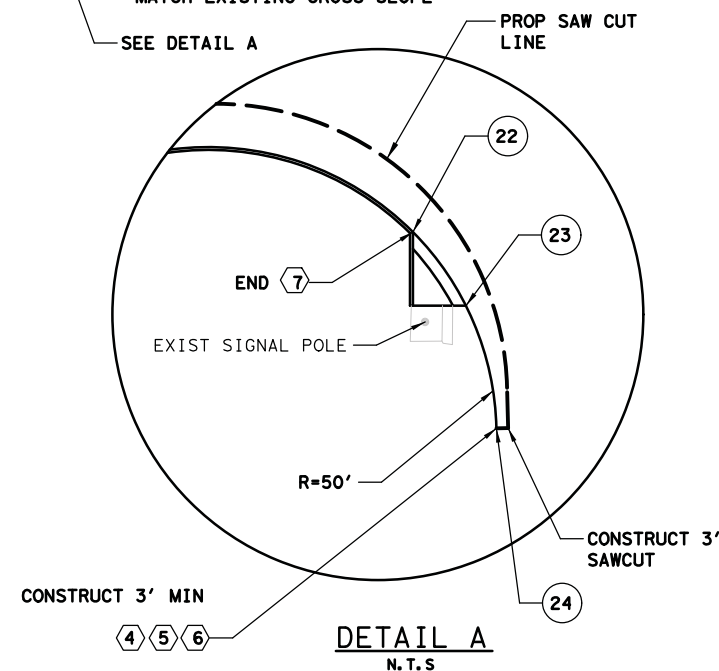
POINT VOSS01 N 13,798,838.7956 E 3,031,642.1496 STA 10+00.00

COURSE FROM VOSS01 TO VOSS02 N 87° 54' 35.34" E DIST 692.6494

POINT VOSS02 N 13,798,864.0583 E 3,032,334.3381 STA 16+92.65

ENDING CHAIN VOSS CL DESCRIPTION

	STATION	OFFSET	ELEVATION
1	PC 13+10.62	31.03' RT	82.30
2	PT 13+30.95	33.35' RT	82.33
3	PC 13+41.45	35.66' RT	82.35
4	PT 13+62.93	38.00' RT	82.31
5	PC 13+77.58	38.00' RT	82.35
6	PT 13+92.58	53.00' RT	84.77
7	13+83.61	60.41' RT	84.51
8	13+83.45	72.38' RT	84.59
9	14+26.00	72.38' RT	84.53
10	14+26.00	60.02' RT	84.53
11	PC 14+18.33	53.00' RT	84.79
12	PT 14+33.33	38.00' RT	82.48
13	PC 14+61.97	38.00' RT	82.56
14	PT 14+76.97	53.00' RT	84.65
15	14+68.14	60.26' RT	84.56
16	14+68.14	71.28' RT	84.59
17	15+23.04	71.28' RT	84.79
18	15+23.04	60.45' RT	84.77
19	PC 15+11.31	53.00' RT	84.53
20	PT 15+26.31	38.00' RT	82.74
21	PC 15+88.85	38.00' RT	83.21
22	PT 16+24.29	52.76' RT	84.42
23	PC 16+33.49	65.54' RT	84.69
24	PT 16+38.81	86.83' RT	84.65

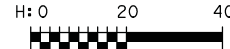


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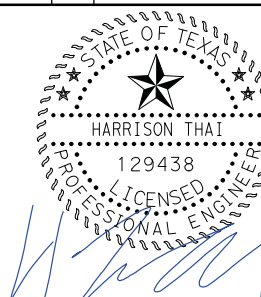
- 1 8" CONCRETE PVMT
- 2 8" BLACK BASE
- 3 6" CONCRETE CURB
- 4 2" HMAC
- 5 16" CEMENT TREATED BASE
- 6 6" LIME STABILIZED SUBGRADE
- 7 CURB & GUTTER (TY II)
- 6" CONCRETE DRIVEWAY
- * DRIVEWAY NUMBER
- EXIST ROW
- PROP ROW
- SAW CUT LINE
- EXIST DIRECTION OF TRAFFIC
- PROPOSED DIRECTION OF TRAFFIC

NOTES:

- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
- STATION AND OFFSET BASED ON VOSS RD UNLESS NOTED OTHERWISE.
- CONTRACTOR TO CONTACT UTILITY COMPANIES WHEN DIGGING IN VICINITY OF COMPANIES' PIPELINES AND TO TAKE PROPER PRECAUTIONS.
- ALL ELEVATIONS ARE AT THE GUTTER LINE.



REV	DATE	BY	DESCRIPTION



10/26/2021

FORT BEND COUNTY ENGINEERING DIVISION

BGE, Inc.
10777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-558-8700 • www.bgeinc.com
TBPE Registration No. F-1046

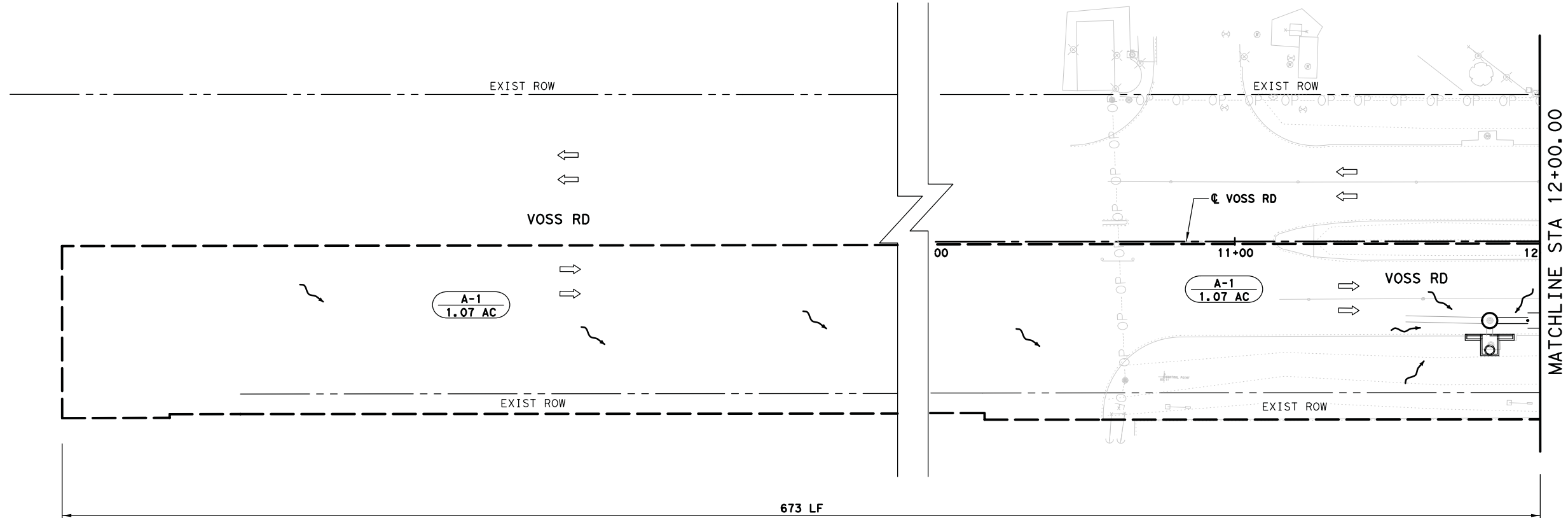
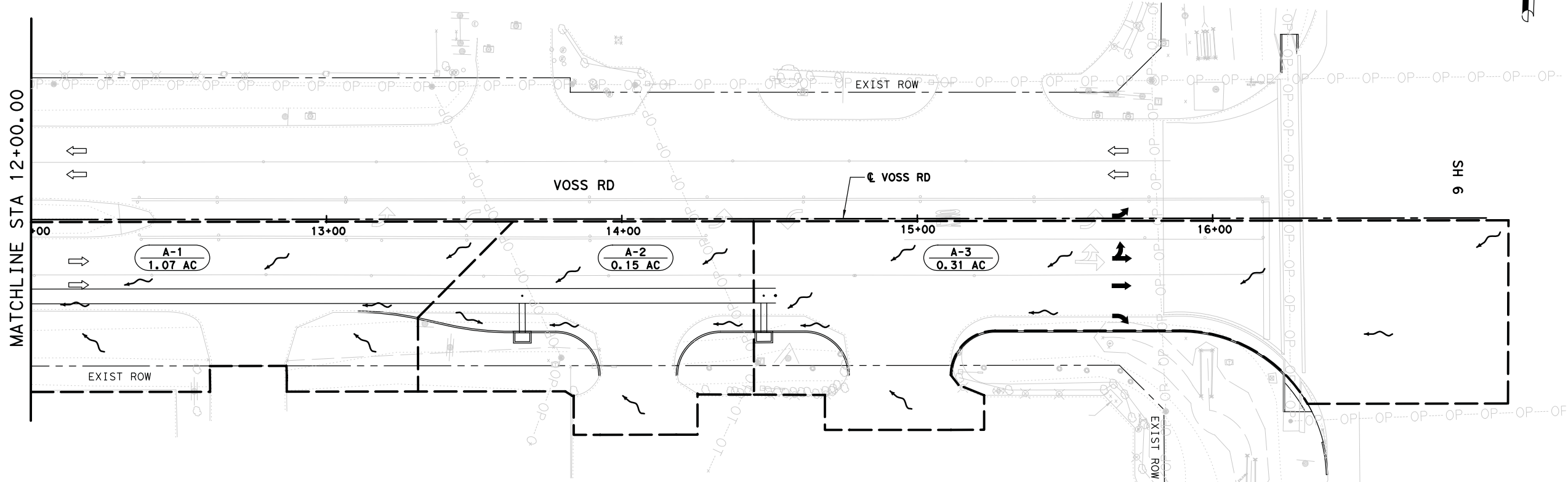
VOSS RD ROADWAY PLAN

SHEET 1 OF 1

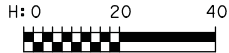
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DRAWN BY:
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SHEET NO: 7

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- LEGEND:**
- X-X
XX.XX DRAINAGE AREA NO
AREA IN ACRES
 - DRAINAGE BOUNDARY
 - ~ DIRECTION OF FLOW
 - ⇨ EXIST DIRECTION OF TRAFFIC
 - ➡ PROPOSED DIRECTION OF TRAFFIC



REV	DATE	BY	DESCRIPTION

HARRISON THAI
129438
LICENSED PROFESSIONAL ENGINEER

3/23/2021

FORT BEND COUNTY
ENGINEERING DIVISION

BGE BGE, Inc.
10777 Westheimer, Suite 400, Houston, TX 77042
Tel: 281-558-8700 • www.bgeinc.com
TBPE Registration No. F-1046

VOSS RD
DRAINAGE AREA MAP

SHEET 1 OF 1
DESIGNED BY:
DRAWN BY:
DATE:
SHEET NO: 8

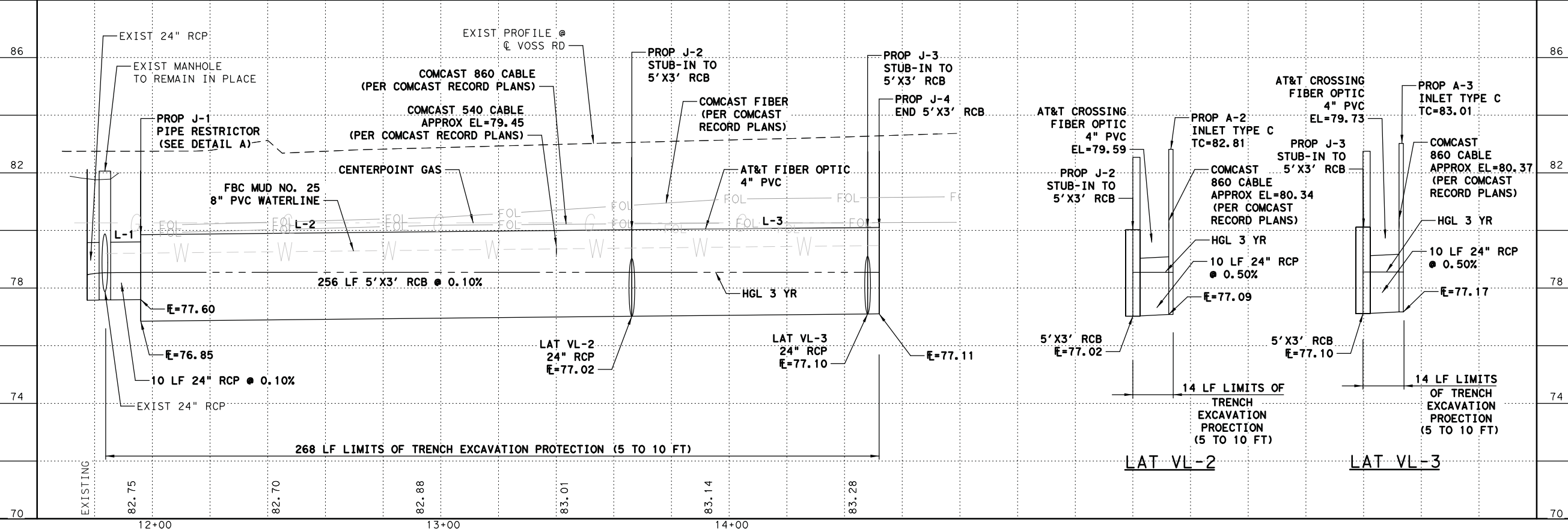
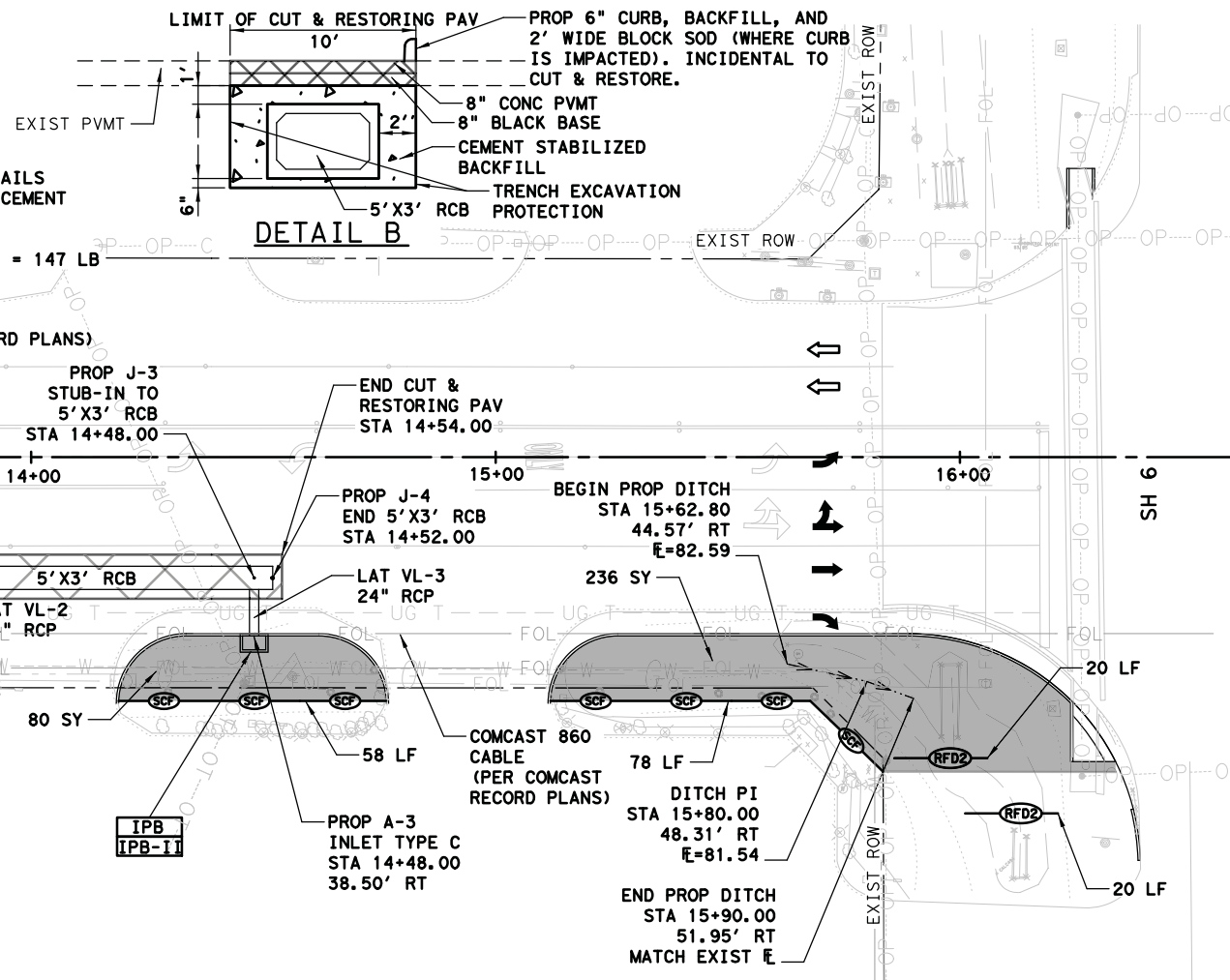
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NOTES CONTINUED:

5. PROVIDE 1'-0" THICK CAST-IN-PLACE CONCRETE WALL AT JUNCTION BETWEEN PROP 24" RCP AND PROPOSED 5'X3' RCB.
6. PROVIDE (10) #5 X 1'-6" DOWELS ALONG PERIMETER OF RCB WALL TO TIE INTO 5'X3' RCB.
7. PLACE #5 DOWELS ALONG RCB WALL CENTERLINE @ 1'-0" MAXIMUM CENTER-TO-CENTER SPACING.
8. PROVIDE (6) HORIZONTAL #5 X 4'-6" @ 6" MAXIMUM CENTER-TO-CENTER SPACING, EACH FACE.

9. PROVIDE (10) VERTICAL #5 X 2'-6" @ 6" MAXIMUM CENTER-TO-CENTER SPACING, EACH FACE.
10. CUT OR TRIM VERTICAL AND HORIZONTAL BARS AS REQUIRED AT RCB BOX HAUNCHES AND PROP 24" RCP OPENING.
11. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING REINFORCEMENT DETAILS AND CONCRETE FORMWORK DETAILS FOR APPROVAL PRIOR TO FABRICATION STEEL REINFORCEMENT OR ANY PRECAST CONCRETE RCB'S.
12. FOR CONTRACTOR'S INFO ONLY, STEEL REINFORCEMENT = 147 LB



STATE OF TEXAS
HARRISON THAI
129438
LICENSED PROFESSIONAL ENGINEER

3/23/2021

FORT BEND COUNTY
ENGINEERING DIVISION

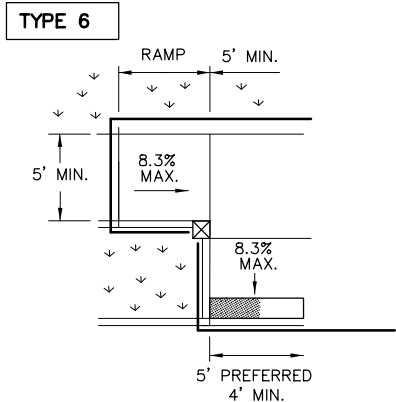
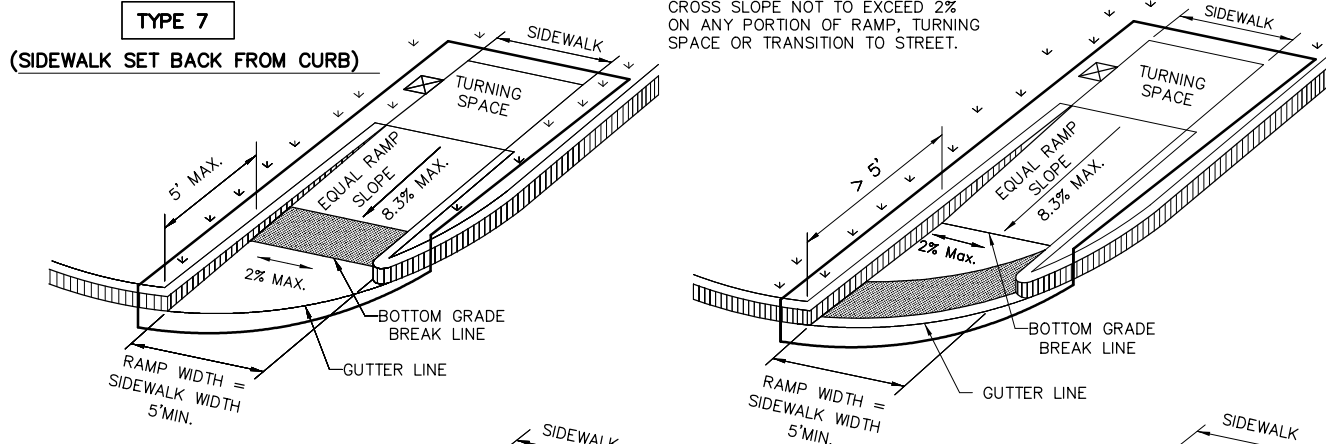
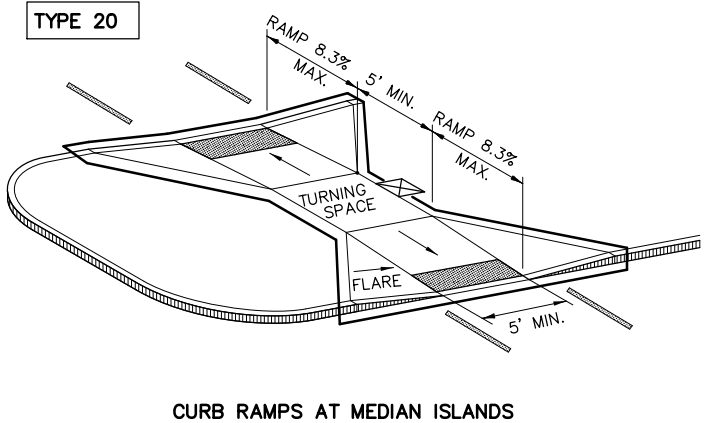
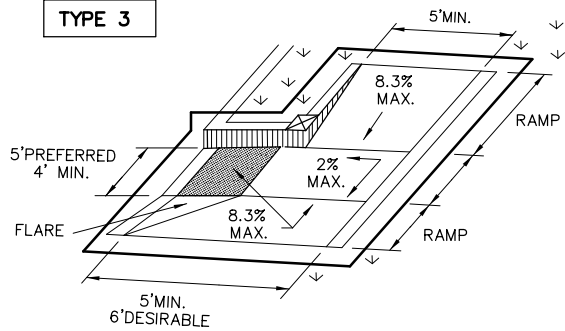
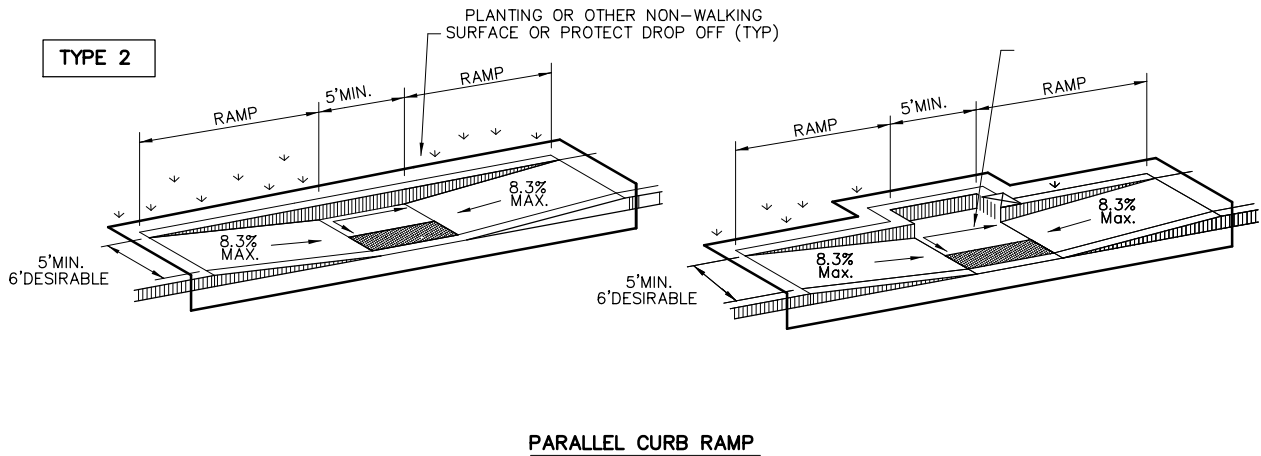
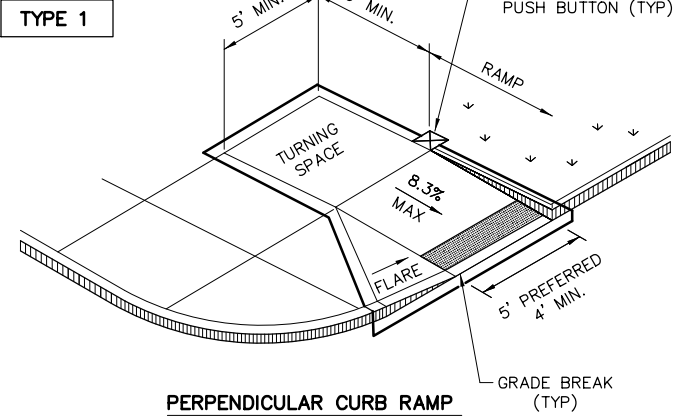
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VOSS RD
DRAINAGE/SW3P
PLAN AND PROFILE

SHEET 1 OF 1

DESIGNED BY:
DRAWN BY:
DATE:
SHEET NO: 10

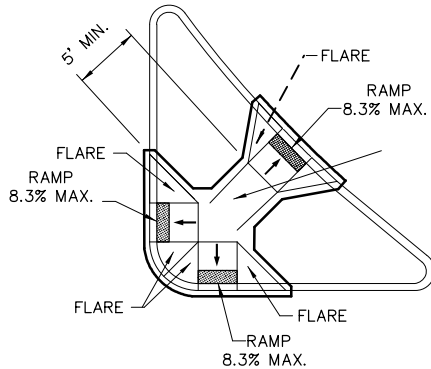
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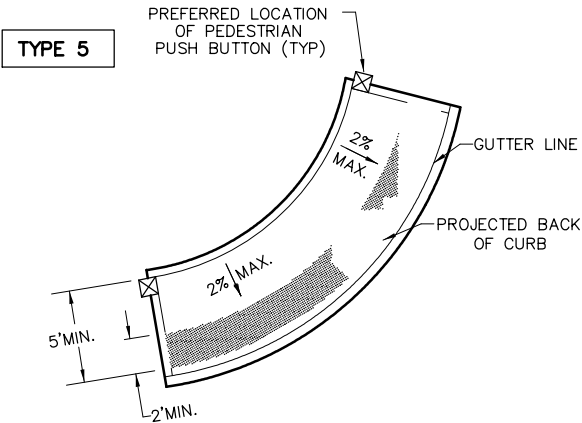
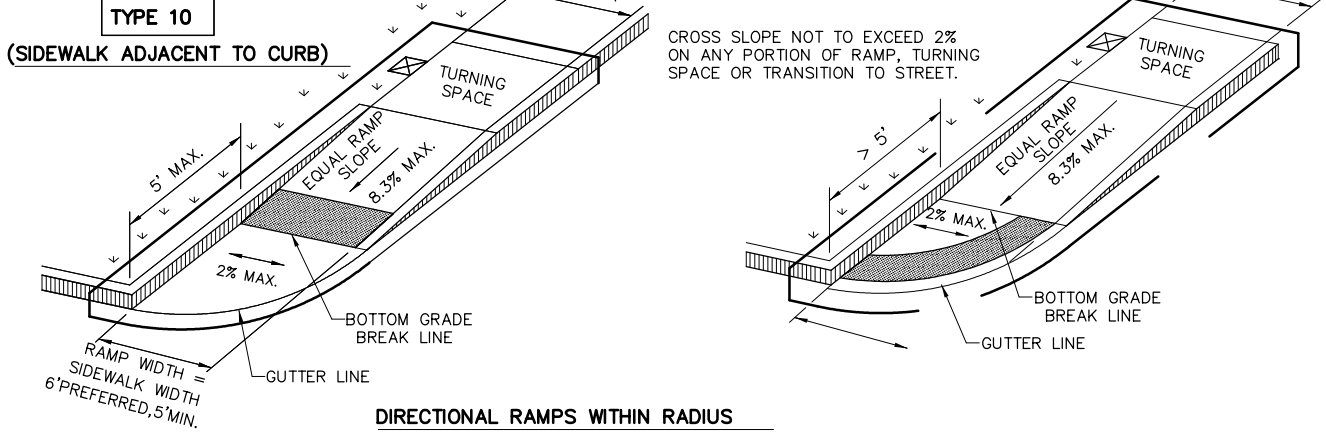
INSTALL DETECTABLE WARNING SURFACE AT EACH END OF THE CUT-THROUGH RAMP WITH A MINIMUM 2' USUAL SIDEWALK SURFACE BETWEEN. IF MEDIAN IS LESS THAN 6' WIDE, ELIMINATE DETECTABLE WARNING SURFACES.

ALIGN CURB PARALLEL WITH CROSSWALK.

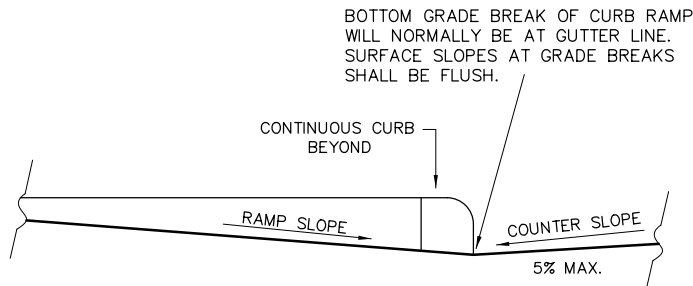
NOTE: CURB DETAILS ARE SHOWN ELSEWHERE IN THE PLANS.



TYPE 22



DIRECTIONAL RAMPs WITHIN RADIUS



NOTES / LEGEND:

SEE GENERAL NOTES ON SHEET 2 OF 4 FOR MORE INFORMATION.

- DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.
- DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.
- DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.
- DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.
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- DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.
- DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-21	RWB
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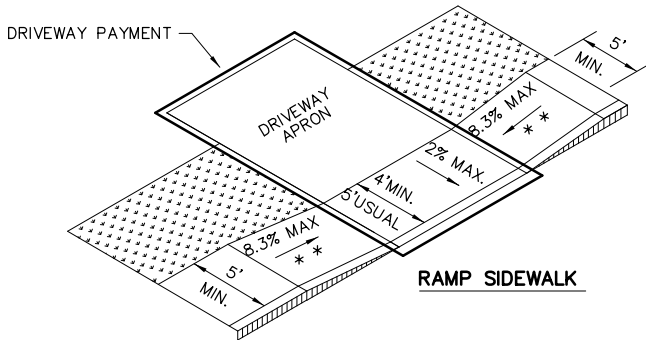
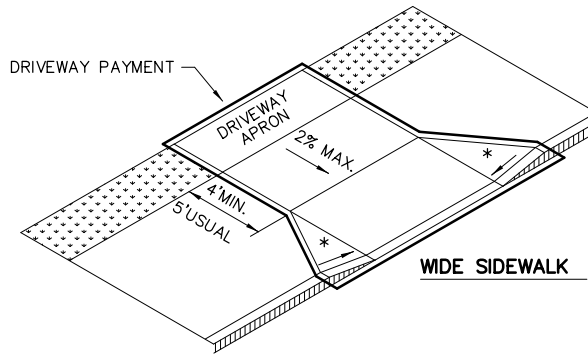
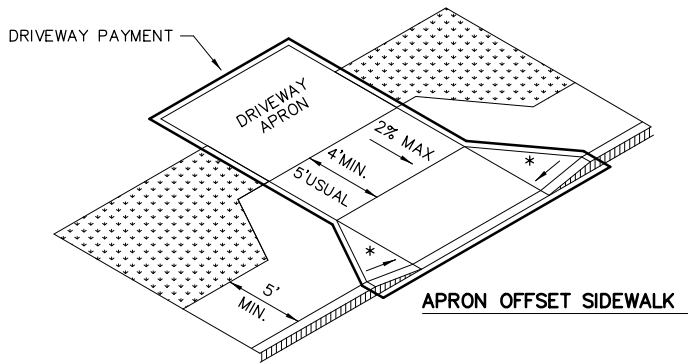
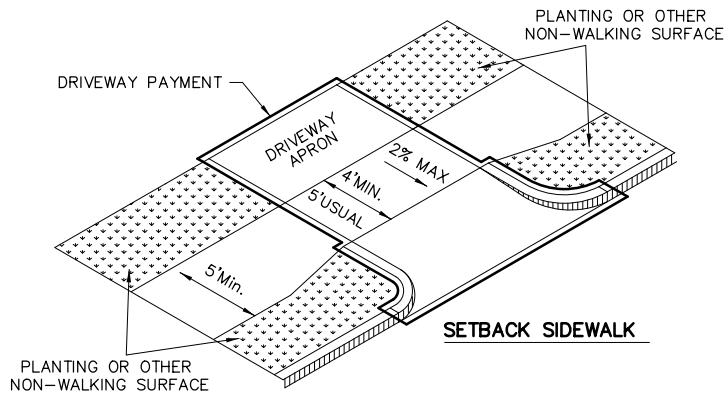
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ENGINEER:
P.E. SERIAL No.
DATE:

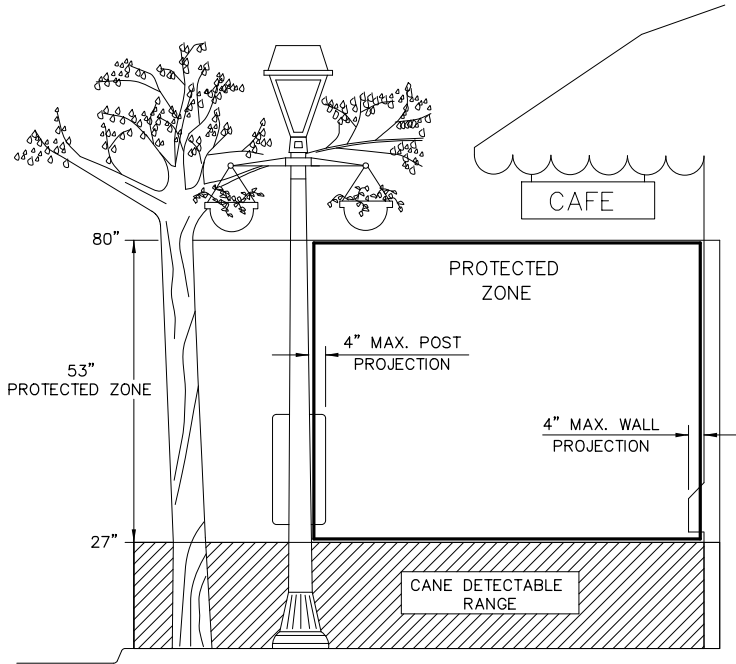
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DRAWN BY: INIT	SHEET DESCRIPTION: PED-18 RAMP DETAILS	
CK'D BY: INIT	SHEET 1 OF 4	SHEET NO: # 16 #
SCALE: 1" = 1'	APPROVED BY:	
DATE: 2-1-21		

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SIDEWALK TREATMENT AT DRIVEWAYS

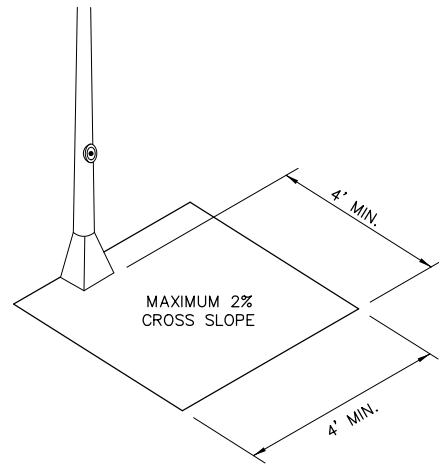


- NOTES:
- * WHERE DRIVEWAYS CROSS THE PEDESTRIAN ROUTE, SIDES SHALL BE FLARED AT 10% MAX SLOPE.
 - ** IF CURB HEIGHT IS GREATER THAN 6 INCHES, USE GRADE LESS THAN OR EQUAL TO 5%. HANDRAIL AND DETECTABLE WARNING ARE NOT REQUIRED.

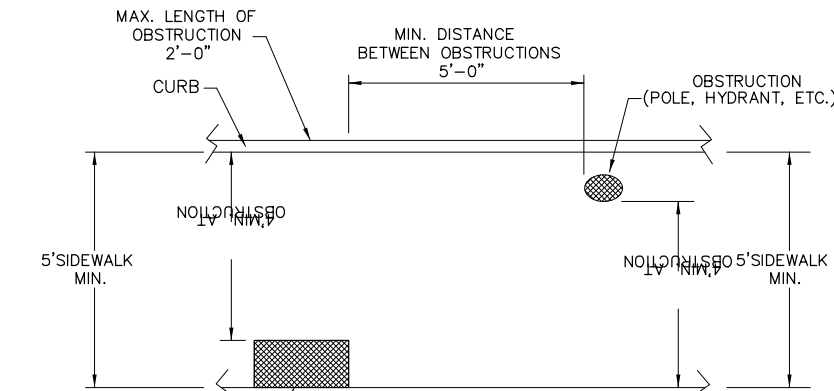


PROTECTED ZONE

NOTE: IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27" AND 80" ABOVE THE SURFACE.

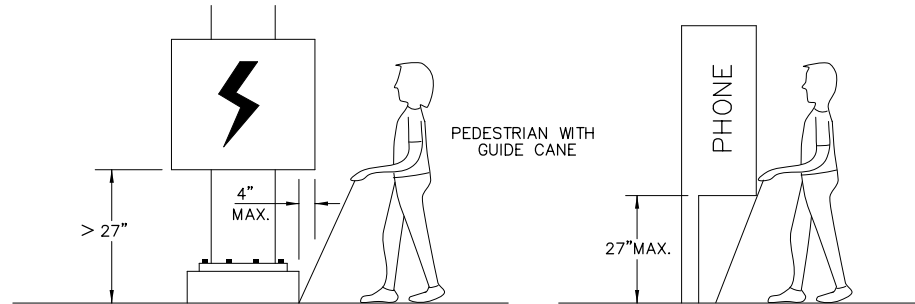


CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



PLAN VIEW
PLACEMENT OF STREET FIXTURES

NOTE: ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.



DETECTION BARRIER FOR VERTICAL CLEARANCE 30"

WHEN AN OBSTRUCTION OF A HEIGHT GREATER THAN 27" FROM THE SURFACE WOULD CREATE A PROTRUSION OF MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA, CONSTRUCT ADDITIONAL CURB OR FOUNDATION AT THE BOTTOM TO PROVIDE A MAXIMUM 4" OVERHANG.

PROTRUDING OBJECTS OF A HEIGHT 27" ARE DETECTABLE BY CANE AND DO NOT REQUIRE ADDITIONAL TREATMENT.

NO.	REVISIONS	DATE	NAME
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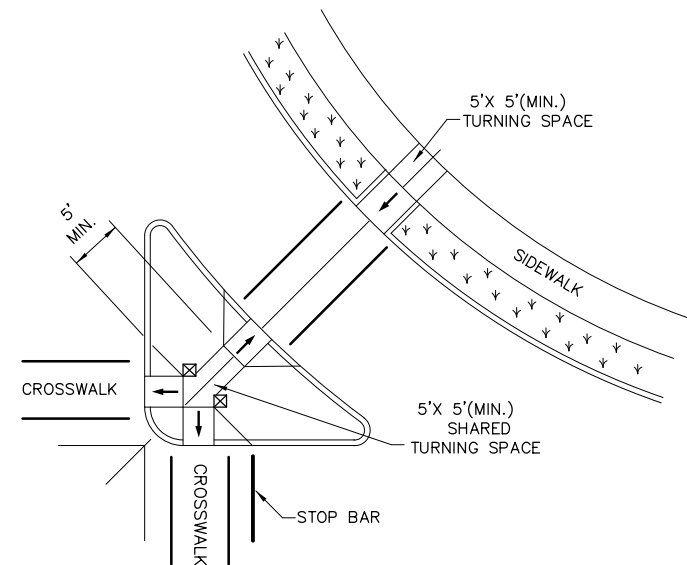
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DATE:

PROJECT TITLE:		
DRAWN BY: INIT	SHEET DESCRIPTION: PED-18 RAMP DETAILS	FBCD STANDARD
CK'D BY: INIT		
SCALE: 1" = 1'	SHEET 3 OF 4	SHEET NO: # 18 #
DATE: 2-1-21	APPROVED BY:	

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The diagram illustrates a skewed intersection with a "small" radius, showing two different sidewalk configurations and the resulting vehicle maneuvering spaces.

Left Scenario: Sidewalk Adjacent to Curb
 This scenario shows a sidewalk that is adjacent to the curb. The vehicle's path is constrained by the curb, resulting in a "4'x 4'(MIN.) MANEUVERING SPACES" area. A "STOP BAR" is indicated on the approach road. The "5'x 5'(MIN.) TURNING SPACE" is shown for the vehicle's turning path. The "CROSSWALK" is also labeled.

Right Scenario: Sidewalk Remote from Curb
 This scenario shows a sidewalk that is remote from the curb. The vehicle's path is less constrained, resulting in a larger "4'x 4'(MIN.) MANEUVERING SPACES" area. The "CROSSWALK" and "SIDEWALK" are also labeled.

Common Labels:
 - **STOP BAR**: Indicated on the approach road.
 - **CROSSWALK**: The crossing area for pedestrians.
 - **5'x 5'(MIN.) TURNING SPACE**: The required space for the vehicle to turn.
 - **4'x 4'(MIN.) MANEUVERING SPACES**: The required space for the vehicle to maneuver during the turn.

SKewed Intersection with "SMALL" RADIUS

5'x 5'(MIN.) TURNING SPACE

4'(MIN.) AT OBSTRUCTION

5' MIN. 6' MIN. PREFERRED.

SIDEWALK

SIDEWALK ADJACENT TO CURB

SIDEWALK

5' MIN.

SIDEWALK REMOTE FROM CURB

MID-BLOCK PLACEMENT PERPENDICULAR RAMPS

Diagram illustrating a normal intersection with a "small" radius. The diagram shows a street with a crosswalk and a stop bar. A vehicle is shown turning left from the street onto a sidewalk. The required clearances are labeled:

- 5'X 5'(MIN.) TURNING SPACE
- STOP BAR
- CROSSWALK
- 4'X 4'(MIN.) MANEUVERING SPACES
- SIDEWALK REMOTE FROM CURB
- SIDEWALK ADJACENT TO CURB

NORMAL INTERSECTION WITH "SMALL" RADIUS

LEGEND:

SHOWS DOWNWARD SLOPE.



DENOTES PREFERRED LOCATION OF PEDESTRIAN
PUSH BUTTON (IF APPLICABLE).



DENOTES PLANTING OR NON-WALKING SURFACE
NOT PART OF PEDESTRIAN CIRCULATION PATH.



NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-21	RWB
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INIT
OK'D BY

CK D BY:
INIT

SCALE:
1" = 1'

DATE:
2-1-21

SHEET DESCRIPTION:	PED-18 RAMP DETAILS
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SHEET 4 OF 4

APPROVED BY:

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STBCED
STANDARD

EET NO:

19 #