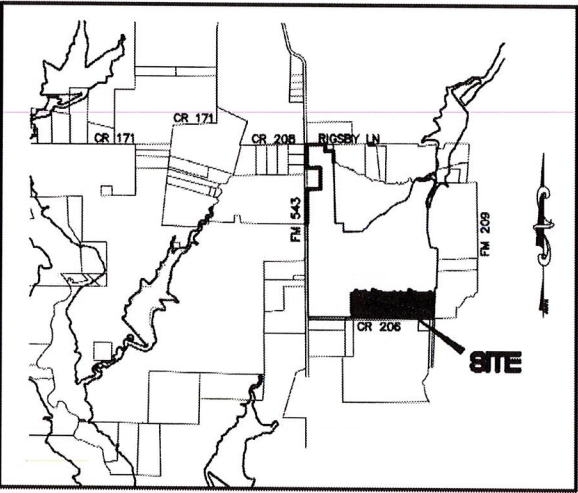


PLANS FOR THE CONSTRUCTION OF
VENETIAN AT WESTON,
OFFSITE WATER & SANITARY SEWER
EAST FORK FRESH WATER SUPPLY
DISTRICT NO. 1A, COLLIN COUNTY, TEXAS



LOCATION MAP
SCALE : N.T.S.



OWNER
HONEYCREEK VENETIAN, LLC
520 CENTRAL PARKWAY EAST, #104
PLANO, TX 75093
(972)422-9880

DEVELOPER
HONEYCREEK VENETIAN, LLC
520 CENTRAL PARKWAY EAST, #104
PLANO, TX 75093
(972)422-9880

PRELIMINARY
-FOR REVIEW ONLY-
THESE DOCUMENTS ARE FOR
DESIGN REVIEW ONLY AND
ARE NOT INTENDED FOR
CONSTRUCTION, BIDDING, OR
PERMIT PURPOSE. THEY ARE
PREPARED BY, OR UNDER
THE SUPERVISION OF:
JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME PE # DATE

PELOTON
LAND SOLUTIONS
ENGINEER
PELOTON LAND SOLUTIONS
11000 FRISCO ST., SUITE 400
FRISCO, TEXAS 75033
PHONE #: (469) 213-1800
TBPE FIRM NO. 12207

SHEET INDEX

SHEET NO.	SHEET TITLE
C000	COVER SHEET
0.05	GENERAL NOTES - TCEQ
0.06	GENERAL NOTES - TCEQ
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1.02	WATER PLAN & PROFILE - OS-WL EAST (10+50-20+50)
1.03	WATER PLAN & PROFILE - OS-WL EAST (20+50-30+50)
1.04	WATER PLAN & PROFILE - OS-WL EAST (30+50-41+00)
2.01	SANITARY SEWER PLAN OVERALL
2.02	SANITARY SEWER PLAN OVERALL
2.03	SANITARY SEWER BASIN AREA MAP
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2.05	SEWER PLAN & PROFILE - SS-OS2 (6+50-12+00)
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2.16	SEWER PLAN & PROFILE - SS-FM1 (29+00-39+00)
2.17	SEWER PLAN & PROFILE - SS-FM1 (19+50-29+00)
2.18	SEWER PLAN & PROFILE - SS-FM1 (10+50-19+50)
2.19	SEWER PLAN & PROFILE - SS-FM1 (0+00-10+50)
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DET	WATER DETAILS
DET	SEWER DETAILS
DET	FLEXAMAT DETAILS

DECEMBER 2020

add city general note before this
page

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

TCEQ WATER DISTRIBUTION SYSTEM
GENERAL CONSTRUCTION NOTES

- This water distribution system must be constructed in accordance with the current Texas Commission on Environmental Quality (TCEQ) Rules and Regulations for Public Water Systems 30 Texas Administrative Code (TAC) Chapter 290 Subchapter D. When conflicts are noted with local standards, the more stringent requirement shall be applied. At a minimum, construction for public water systems must always meet TCEQ's "Rules and Regulations for Public Water Systems."
- All newly installed pipes and related products must conform to American National Standards Institute (ANSI)/NSF International Standard 61 and must be certified by an organization accredited by ANSI [§290.44(a)(1)].
- Plastic pipe for use in public water systems must bear the NSF International Seal of Approval (NSF-pw) and have an ASTM design pressure rating of at least 150 psi or a standard dimension ratio of 26 or less [§290.44(a)(2)].
- No pipe which has been used for any purpose other than the conveyance of drinking water shall be accepted or relocated for use in any public drinking water supply [§290.44(a)(3)].
- All water line crossings of wastewater mains shall be perpendicular [§290.44(e)(4)(B)].
- Water transmission and distribution lines shall be installed in accordance with the manufacturer's instructions. However, the top of the water line must be located below the frost line and in no case shall the top of the water line be less than 24 inches below ground surface [§290.44(a)(4)].
- The maximum allowable lead content of pipes, pipe fittings, plumbing fittings, and fixtures is 0.25 percent [§290.44(b)].
- The contractor shall install appropriate air release devices with vent openings to the atmosphere covered with 16-mesh or finer, corrosion resistant screening material or an acceptable equivalent [§290.44(d)(1)].
- The contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation [§290.44(f)(1)].
- When waterlines are laid under any flowing or intermittent stream or semi-permanent body of water the waterline shall be installed in a separate watertight pipe encasement. Valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested [§290.44(f)(2)].

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- Pursuant to 30 TAC §290.44(a)(5), the hydrostatic leakage rate shall not exceed the amount allowed or recommended by the most current AWWA formulas for PVC pipe, cast iron and ductile iron pipe. Include the formulas in the notes on the plans.
 - The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-605 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

$$Q = \frac{LD\sqrt{P}}{148,000}$$

Where:

- Q = the quantity of makeup water in gallons per hour,
- L = the length of the pipe section being tested, in feet,
- D = the nominal diameter of the pipe in inches, and
- P = the average test pressure during the hydrostatic test in pounds per square inch (psi).

- The hydrostatic leakage rate for ductile iron (DI) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-600 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

$$L = \frac{SD\sqrt{P}}{148,000}$$

Where:

- L = the quantity of makeup water in gallons per hour,
- S = the length of the pipe section being tested, in feet,
- D = the nominal diameter of the pipe in inches, and
- P = the average test pressure during the hydrostatic test in pounds per square inch (psi).

- The contractor shall maintain a minimum separation distance in all directions of nine feet between the proposed waterline and wastewater collection facilities including manholes. If this distance cannot be maintained, the contractor must immediately notify the project engineer for further direction. Separation distances, installation methods, and materials utilized must meet §290.44(e)(1)-(4).
- The separation distance from a potable waterline to a wastewater main or lateral manhole or cleanout shall be a minimum of nine feet. Where the nine-foot separation distance cannot be achieved, the potable waterline shall be encased in a joint of at least 150 psi pressure class pipe at least 18 feet long and two nominal sizes larger than the new conveyance. The space around the carrier pipe shall be supported at five-foot intervals with spacers or be filled to the springline with washed sand. The encasement pipe shall be centered on the crossing and both ends sealed with cement grout or manufactured sealant [§290.44(e)(3)].
- Fire hydrants shall not be installed within nine feet vertically or horizontally of any wastewater line, wastewater lateral, or wastewater service line regardless of construction [§290.44(e)(6)].

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- Suction mains to pumping equipment shall not cross wastewater mains, wastewater laterals, or wastewater service lines. Raw water supply lines shall not be installed within five feet of any tile or concrete wastewater main, wastewater lateral, or wastewater service line [§290.44(e)(7)].
- Waterlines shall not be installed closer than ten feet to septic tank drainfields [§290.44(e)(8)].
- The contractor shall disinfect the new waterlines in accordance with AWWA Standard C-651-14 or most recent, then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed waterline will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer [§290.44(f)(3)].
- Dechlorination of disinfecting water shall be in strict accordance with current AWWA Standard C655-09 or most recent.

Revised February 2019

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BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62' SOUTH OF THE CENTERLINE OF RIGSBY LANE. ELEVATION = 745.65'

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2.945' NORTH OF THE CENTERLINE OF CR 206. ELEVATION = 733.37'

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 206. ELEVATION = 717.56'

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-FOR REVIEW ONLY-

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JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME FE # DATE

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE

GENERAL NOTES - TCEQ

WESTON, COLLIN COUNTY, TEXAS


PELOTON
LAND SOLUTIONS
TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 213-1800

DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	0.05
REVIEWER: JWR			

Texas Commission on Environmental Quality
Organized Sewage Collection System
General Construction Notes

Edwards Aquifer Protection Program Construction Notes - Legal Disclaimer

The following "General Construction Notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director, nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further action may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code, Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following "General Construction Notes" restricts the powers of the Executive Director, the Commission or any other governmental entity to prevent, correct, or control activities that result or may result in pollution of the Edwards Aquifer or hydrogeologically connected surface waters. The owner of any Edwards Aquifer Protection Plan containing "General Construction Notes" is still responsible for compliance with Title 30, Texas Administrative Code, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the Executive Director's approval, whether or not in contradiction of any construction notes, is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, Texas Administrative Code § 213.16 (relating to Enforcement). Such violations may also be subject to civil penalties and sanctions. The following "General Construction Notes" in no way represent an approved exception by the Executive Director to any part of Title 30, Texas Administrative Code, Chapters 213 and 217, or any other TCEQ applicable regulation.

- This Organized Sewage Collection System (SCS) must be constructed in accordance with 30 Texas Administrative Code (TAC) §213.5(c), the Texas Commission on Environmental Quality's (TCEQ) Edwards Aquifer Rules and any local government standard specifications.
- All contractors conducting regulated activities associated with this proposed regulated project must be provided with copies of the SCS plan and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors must be required to keep on-site copies of the plan and the approval letter.
- A written notice of construction must be submitted to the presiding TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include:
 - the name of the approved project;
 - the activity start date; and
 - the contact information of the prime contractor.
- Any modification to the activities described in the referenced SCS application following the date of approval may require the submittal of an SCS application to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval.
- Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the manufacturers specifications. These controls must remain in place until the disturbed areas have been permanently stabilized.
- If any sensitive features are discovered during the wastewater line trenching activities, all regulated activities near the sensitive feature must be suspended immediately. The applicant must immediately notify the appropriate regional office of the TCEQ of the feature discovered. A geologist's assessment of the location and extent of the feature discovered must be reported to that regional office in writing and the applicant must submit a plan for ensuring the structural integrity of the sewer line or for modifying the proposed collection system alignment around the feature. The regulated activities near the sensitive feature may not proceed until the

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executive director has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality while maintaining the structural integrity of the line.

- Sewer lines located within or crossing the 5-year floodplain of a drainage way will be protected from inundation and stream velocities which could cause erosion and scouring of backfill. The trench must be capped with concrete to prevent scouring of backfill, or the sewer lines must be encased in concrete. All concrete shall have a minimum thickness of 6 inches.
- Blasting procedures for protection of existing sewer lines and other utilities will be in accordance with the National Fire Protection Association criteria. Sand is not allowed as bedding or backfill in trenches that have been blasted. If any existing sewer lines are damaged, the lines must be repaired and retested.
- All manholes constructed or rehabilitated on this project must have watertight size on size resilient connectors allowing for differential settlement. If manholes are constructed within the 100-year floodplain, the cover must have a gasket and be bolted to the ring. Where gasketed manhole covers are required for more than three manholes in sequence or for more than 1500 feet, alternate means of venting will be provided. Bricks are not an acceptable construction material for any portion of the manhole.

The diameter of the manholes must be a minimum of four feet and the manhole for entry must have a minimum clear opening diameter of 30 inches. These dimensions and other details showing compliance with the commission's rules concerning manholes and sewer line/manhole inverts described in 30 TAC §217.55 are included on Plan Sheet ___ of ___.

It is suggested that entrance into manholes in excess of four feet deep be accomplished by means of a portable ladder. The inclusion of steps in a manhole is prohibited.

- Where water lines and new sewer line are installed with a separation distance closer than nine feet (i.e., water lines crossing wastewater lines, water lines paralleling wastewater lines, or water lines next to manholes) the installation must meet the requirements of 30 TAC §217.53(d) (Pipe Design) and 30 TAC §290.44(e) (Water Distribution).
- Where sewers lines deviate from straight alignment and uniform grade all curvature of sewer pipe must be achieved by the following procedure which is recommended by the pipe manufacturer: _____

If pipe flexure is proposed, the following method of preventing deflection of the joint must be used: _____

Specific care must be taken to ensure that the joint is placed in the center of the trench and properly bedded in accordance with 30 TAC §217.54.

- New sewage collection system lines must be constructed with stub outs for the connection of anticipated extensions. The location of such stub outs must be marked on the ground such that their location can be easily determined at the time of connection of the extensions. Such stub outs must be manufactured wyes or tees that are compatible in size and material with both the sewer line and the extension. At the time of original construction, new stub-outs must be constructed sufficiently to extend beyond the end of the street pavement. All stub-outs must be sealed with a manufactured cap to prevent leakage. Extensions that were not anticipated at the time of original construction or that are to be connected to an existing sewer line not furnished with stub outs must be connected using a manufactured saddle and in accordance with accepted plumbing techniques.

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If no stub-out is present an alternate method of joining laterals is shown in the detail on Plan Sheet ___ of ___. (For potential future laterals).

The private service lateral stub-outs must be installed as shown on the plan and profile sheets on Plan Sheet ___ of ___, and marked after backfilling as shown in the detail on Plan Sheet ___ of ___.

- Trenching, bedding and backfill must conform with 30 TAC §217.54. The bedding and backfill for flexible pipe must comply with the standards of ASTM D-2321, Classes 1A, 1B, 1C, or 1D. Rigid pipe bedding must comply with the requirements of ASTM C 12 (ANSI A 106.2) classes A, B or C.
- Sewer lines must be tested from manhole to manhole. When a new sewer line is connected to an existing stub or clean-out, it must be tested from existing manhole to new manhole. If a stub or clean-out is used at the end of the proposed sewer line, no private service attachment may be connected between the last manhole and the cleanout unless it can be certified as conforming with the provisions of 30 TAC §213.5(c)(3)(E).
- All sewer lines must be tested in accordance with 30 TAC §217.57. The engineer must retain copies of all test results which must be made available to the executive director upon request. The engineer must certify in writing that all wastewater lines have passed all required testing to the appropriate regional office within 30 days of test completion and prior to use of the new collection system. Testing method will be:
 - (a) For a collection system pipe that will transport wastewater by gravity flow, the design must specify an infiltration and exfiltration test or a low-pressure air test. A test must conform to the following requirements:
 - (1) Low Pressure Air Test
 - (A) A low pressure air test must follow the procedures described in American Society For Testing And Materials (ASTM) C-828, ASTM C-924, or ASTM F-1417 or other procedure approved by the executive director, except as to testing times as required in Table C.3 in subparagraph (C) of this paragraph or Equation C.3 in subparagraph (B)(ii) of this paragraph.
 - (B) For sections of collection system pipe less than 36 inch average inside diameter, the following procedure must apply, unless a pipe is to be tested as required by paragraph (2) of this subsection.
 - (i) A pipe must be pressurized to 3.5 pounds per square inch (psi) greater than the pressure exerted by groundwater above the pipe.
 - (ii) Once the pressure is stabilized, the minimum time allowable for the pressure to drop from 3.5 psi gauge to 2.5 psi gauge is computed from the following equation:

$$\text{Equation C.3} \quad T = \frac{0.085 \times D \times K}{Q}$$

Where:

T = time for pressure to drop 1.0 pound per square inch gauge in seconds
K = 0.000419 X D X L, but not less than 1.0
D = average inside pipe diameter in inches

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L = length of line of same size being tested, in feet
Q = rate of loss, 0.0015 cubic feet per minute per square foot internal surface

(C) Since a K value of less than 1.0 may not be used, the minimum testing time for each pipe diameter is shown in the following Table C.3:

Pipe Diameter (inches)	Minimum Time (seconds)	Maximum Length for Minimum Time (feet)	Time for Longer Length (seconds/foot)
6	340	398	0.855
8	454	298	1.520
10	567	239	2.374
12	680	199	3.419
15	850	159	5.342
18	1020	133	7.693
21	1190	114	10.471
24	1360	100	13.676
27	1530	88	17.309
30	1700	80	21.369
33	1870	72	25.856

- An owner may stop a test if no pressure loss has occurred during the first 25% of the calculated testing time.
- If any pressure loss or leakage has occurred during the first 25% of a testing period, then the test must continue for the entire test duration as outlined above or until failure.
- Wastewater collection system pipes with a 27 inch or larger average inside diameter may be air tested at each joint instead of following the procedure outlined in this section.
- A testing procedure for pipe with an inside diameter greater than 33 inches must be approved by the executive director.
- (2) Infiltration/Exfiltration Test:
 - (A) The total exfiltration, as determined by a hydrostatic head test, must not exceed 50 gallons per inch of diameter per mile of pipe per 24 hours at a minimum test head of 2.0 feet above the crown of a pipe at an upstream manhole.
 - (B) An owner shall use an infiltration test in lieu of an exfiltration test when pipes are installed below the groundwater level.
 - (C) The total exfiltration, as determined by a hydrostatic head test, must not exceed 50 gallons per inch diameter per mile of pipe per 24 hours at a minimum test head of two feet above the crown of a pipe at an upstream manhole, or at least two feet above existing groundwater level, whichever is greater.
 - (D) For construction within a 25-year flood plain, the infiltration or exfiltration must not exceed 10 gallons per inch diameter per mile of pipe per 24 hours at the same minimum test head as in subparagraph (C) of this paragraph.
 - (E) If the quantity of infiltration or exfiltration exceeds the maximum quantity specified, an owner shall undertake remedial action in order to reduce

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the infiltration or exfiltration to an amount within the limits specified. An owner shall retest a pipe following a remediation action.

(b) If a gravity collection pipe is composed of flexible pipe, deflection testing is also required. The following procedures must be followed:

(1) For a collection pipe with inside diameter less than 27 inches, deflection measurement requires a rigid mandrel.

(A) Mandrel Sizing:

- (i) A rigid mandrel must have an outside diameter (OD) not less than 95% of the base inside diameter (ID) or average ID of a pipe, as specified in the appropriate standard by the ASTMs, American Water Works Association, UNI-BELL, or American National Standards Institute, or any related appendix.

(ii) If a mandrel sizing diameter is not specified in the appropriate standard, the mandrel must have an OD equal to 95% of the ID of a pipe. In this case, the ID of the pipe, for the purpose of determining the OD of the mandrel, must equal the average outside diameter minus two minimum wall thicknesses for OD controlled pipe and the average inside diameter for ID controlled pipe.

(iii) All dimensions must meet the appropriate standard.

(B) Mandrel Design:

- (i) A rigid mandrel must be constructed of a metal or a rigid plastic material that can withstand 200 psi without being deformed.

(ii) A mandrel must have nine or more odd number of runners or legs.

(iii) A barrel section length must equal at least 75% of the inside diameter of a pipe.

(iv) Each size mandrel must use a separate proving ring.

(C) Method Options:

- (i) An adjustable or flexible mandrel is prohibited.

(ii) A test may not use television inspection as a substitute for a deflection test.

(iii) If requested, the executive director may approve the use of a deflectionometer or a mandrel with removable legs or runners on a case-by-case basis.

(2) For a gravity collection system pipe with an inside diameter 27 inches and greater, other test methods may be used to determine vertical deflection.

(3) A deflection test method must be accurate to within plus or minus 0.2% deflection.

(4) An owner shall not conduct a deflection test until at least 30 days after the final backfill.

(5) Gravity collection system pipe deflection must not exceed five percent (5%).

(6) If a pipe section fails a deflection test, an owner shall correct the problem and conduct a second test after the final backfill has been in place at least 30 days.

(1) Hydrostatic Testing

(2) For a gravity collection system pipe with an inside diameter 27 inches and greater, other test methods may be used to determine vertical deflection.

(3) A deflection test method must be accurate to within plus or minus 0.2% deflection.

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(5) Gravity collection system pipe deflection must not exceed five percent (5%).

(6) If a pipe section fails a deflection test, an owner shall correct the problem and conduct a second test after the final backfill has been in place at least 30 days.

(1) Hydrostatic Testing

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Page 5 of 5

(A) The maximum leakage for hydrostatic testing or any alternative test methods is 0.025 gallons per foot diameter per foot of manhole depth per hour.

(B) To perform a hydrostatic exfiltration test, an owner shall seal all wastewater pipes coming into a manhole with an internal pipe plug, fill the manhole with water, and maintain the test for at least one hour.

(C) A test for concrete manholes may use a 24-hour wetting period before testing to allow saturation of the concrete.

(2) Vacuum Testing:

- (A) To perform a vacuum test, an owner shall plug all lift holes and exterior joints with a non-shrink grout and plug all pipes entering a manhole.

(B) No grout must be placed in horizontal joints before testing.

(C) Stub-outs, manhole boots, and pipe plugs must be secured to prevent movement while a vacuum is drawn.

(D) An owner shall use a minimum 60 inch/lb torque wrench to tighten the external clamps that secure a test cover to the top of a manhole.

(E) A test head must be placed at the inside of the top of a cone section, and the seal inflated in accordance with the manufacturer's recommendations.

(F) There must be a vacuum of 10 inches of mercury inside a manhole to perform a valid test.

(G) A test does not begin until after the vacuum pump is off.

(H) A manhole passes the test if after 2 G minutes and with all valves closed, the vacuum is at least 9.0 inches of mercury.

- All private service laterals must be inspected and certified in accordance with 30 TAC §213.5(c)(3)(i). After installation of and, prior to covering and connecting a private service lateral to an existing organized sewage collection system, a Texas Licensed Professional Engineer, Texas Registered Sanitarian, or appropriate city inspector must visually inspect the private service lateral and the connection to the sewage collection system, and certify that it is constructed in conformity with the applicable provisions of this section. The owner of the collection system must maintain such certifications for five years and forward copies to the appropriate regional office upon request. Connections may only be made to an approved sewage collection system.

Austin Regional Office
12100 Park 35 Circle, Building A
Austin, Texas 78753-1808
Phone (512) 339-2029
Fax (512) 339-3795

San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
Phone (210) 490-3096
Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

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Page 6 of 6

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811 1-800-344-8377
ATMOS GAS 972-881-4161
TXU ELECTRIC DELIVERY 1-800-711-9112
WESTON WATER SUPPLY 972-382-2245
NORTH COLLIN SUD 972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

BENCHMARKS

BM #1: "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62 SOUTH OF THE CENTERLINE OF RIGSBY LANE ELEVATION = 745.85'

BM #2: "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2.946' NORTH OF THE CENTERLINE OF CR 206 ELEVATION = 733.37'

BM #3: "X" CUT ON HEADWALL AT THE SOUTHWEST CORNER OF THE INTERSECTION OF FM 543 AND CR 206 ELEVATION = 717.56'

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE

GENERAL NOTES - TCEQ

WESTON, COLLIN COUNTY, TEXAS



TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 233-1900

DRAWN:	MCM	DATE:	PROJECT #:	SHEET:
DESIGNED:	MCM	DECEMBER 2020	LEN20001	0.06
REVIEWER:	JWR			

VENETIAN AT WESTON OFFSITE UTILITIES

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ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

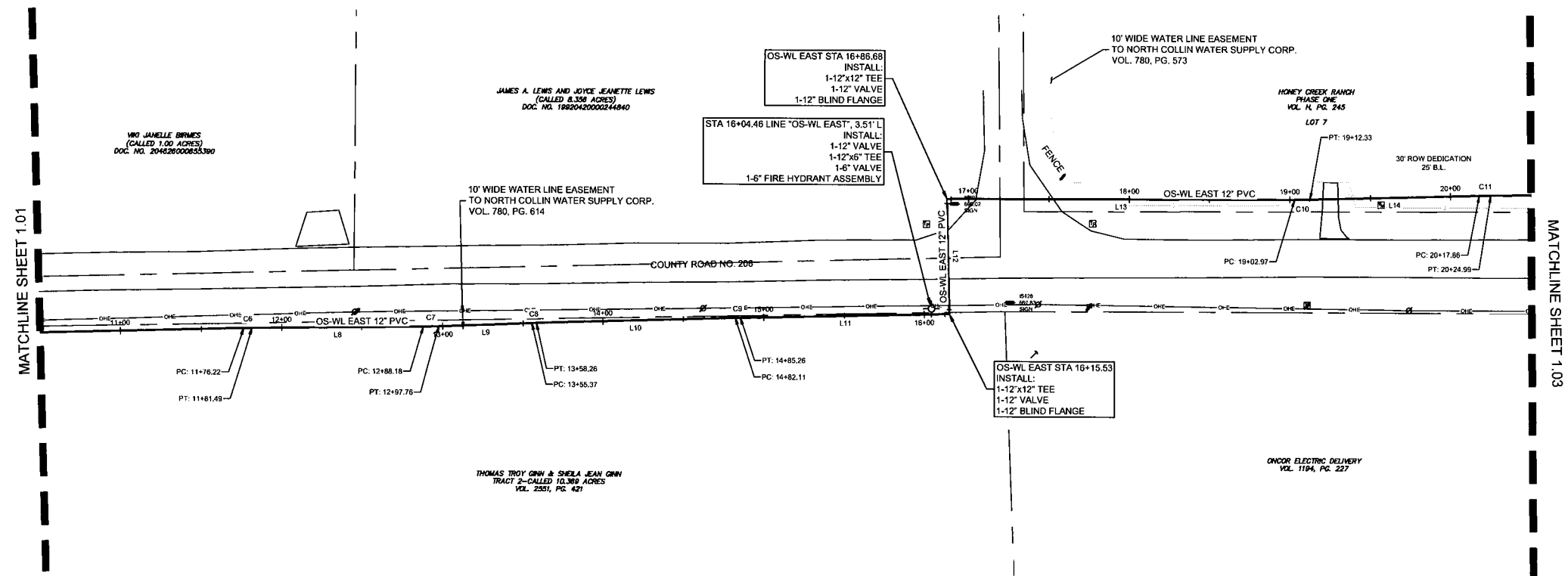
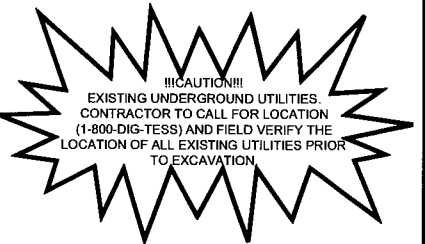
CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND

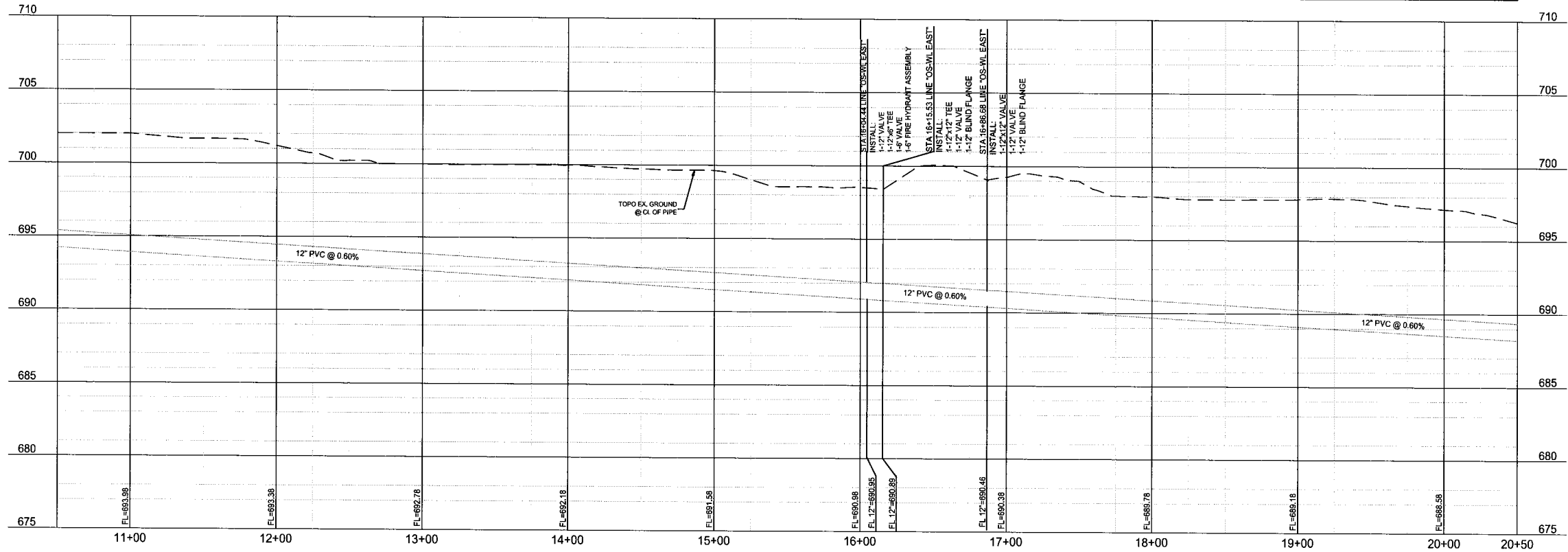
- PROPOSED SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED STORM DRAIN

- NOTES:
- ALL WATER PIPES TO BE AWWA C-300 OR-16 CLASS 150 PVC PIPE.
 - CONTRACTOR TO ENSURE NO VALVE STACK WILL INTERFERE WITH ADA RAMPS, DRIVEWAYS, OR WATER METERS.
 - CONTRACTOR TO REPLACE CONCRETE/GRAVEL DRIVEWAYS OR HOMEOWNERS' NECESSARY. NOTIFY HOMEOWNER PRIOR TO REMOVAL & REPLACEMENT.
 - CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY FENCING DURING CONSTRUCTION.



LINE TABLE		
LINE	LENGTH	BEARING
L7	424.09'	N88° 26' 47"E
L8	106.69'	N89° 17' 09"E
L9	57.61'	N87° 45' 39"E
L10	123.85'	N88° 13' 12"E
L11	130.27'	N88° 43' 15"E
L12	71.15'	N01° 16' 45"W
L13	216.29'	N89° 54' 09"E
L14	105.53'	N88° 24' 44"E
L15	188.31'	N89° 32' 51"E

CURVE TABLE						
CURVE	DELTA	RADIUS	TANGENT	LENGTH	CHORD	BEARING
C6	000° 50' 20"	360.00'	2.64'	5.27'	5.27'	N88° 51' 58"E
C7	001° 31' 29"	360.00'	4.79'	9.58'	9.58'	N88° 31' 24"E
C8	000° 27' 36"	360.00'	1.45'	2.89'	2.89'	N87° 59' 26"E
C9	000° 30' 05"	360.00'	1.58'	3.15'	3.15'	N88° 28' 14"E
C10	001° 29' 25"	359.89'	4.68'	9.36'	9.36'	N89° 09' 27"E
C11	001° 08' 05"	360.00'	3.57'	7.13'	7.13'	N88° 58' 47"E



BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62' SOUTH OF THE CENTERLINE OF RIGSBY LANE ELEVATION = 745.85

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2,945' NORTH OF THE CENTERLINE OF CR 206 ELEVATION = 733.37

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 206 ELEVATION = 717.56

PRELIMINARY -FOR REVIEW ONLY-

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JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME PG # DATE

NO.	DATE	REVISION

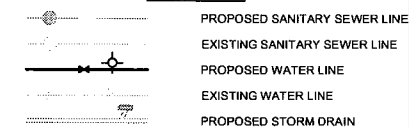
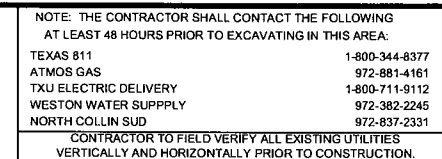
VENETIAN AT WESTON OFFSITE
WATER PLAN & PROFILE - OS-WL
EAST (10+50-20+50)

WESTON, COLLIN COUNTY, TEXAS

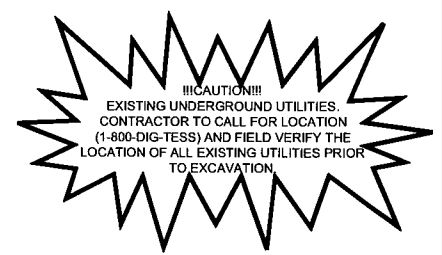


TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 213-1800

DRAWN: MCM	DATE: DECEMBER 2020	PROJECT #: LEN20001	SHEET: 1.02
DESIGNED: MCM	REVIEWER: JWR		

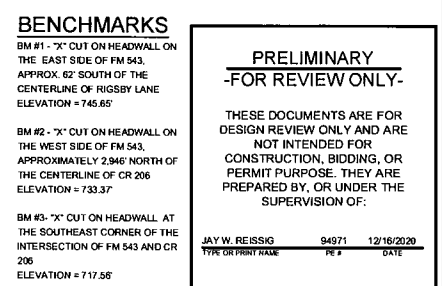


- NOTES:**
1. ALL WATER PIPES TO BE AWWA C-900 DR-18 CLASS 150 PVC PIPE.
 2. CONTRACTOR TO ENSURE NO VALVE STACK WILL INTERFERE WITH ADA RAMP'S, DRIVEWAYS, OR WATER METERS
 3. CONTRACTOR TO REPLACE CONCRETE/GRAVEL DRIVEWAYS OR HOMEOWNERS ACCESSORY DRIVEWAYS.
 4. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY FENCING DURING CONSTRUCTION.



LINE TABLE			LINE TABLE		
LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
L15	188.31'	N69° 32' 51"E	L20	18.50'	N82° 40' 00"E
L16	161.58'	S89° 48' 41"E	L21	2.62'	N77° 08' 21"E
L17	38.19'	N79° 21' 47"E	L22	274.01'	N81° 15' 52"E
L18	60.29'	N83° 38' 09"E	L23	148.71'	N86° 54' 50"E
L19	138.08'	N86° 10' 30"E			

CURVE TABLE						
CURVE	DELTA	RADIUS	TANGENT	LENGTH	CHORD	BEARING
C12	000° 38' 27"	360.24'	2.02'	4.03'	4.03'	N89° 52' 05"E
C13	004° 16' 22"	360.60'	13.43'	26.85'	26.84'	N81° 29' 58"E
C14	005° 31' 41"	360.00'	17.38'	34.73'	34.72'	N79° 54' 11"E
C15	004° 07' 29"	360.00'	12.96'	25.92'	25.91'	N79° 12' 07"E
C16	005° 38' 57"	360.00'	17.76'	35.49'	35.48'	N84° 05' 21"E

[illegible]

VENETIAN AT WESTON OFFSITE
WATER PLAN & PROFILE - OS-WL
EAST (20+50-30+50)

WESTON, COLLIN COUNTY, TEXAS



TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11900 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 213-1900

DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	1.03
REVIEWER: JWR			

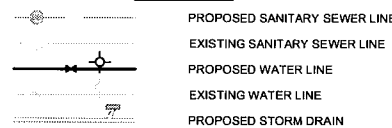
NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

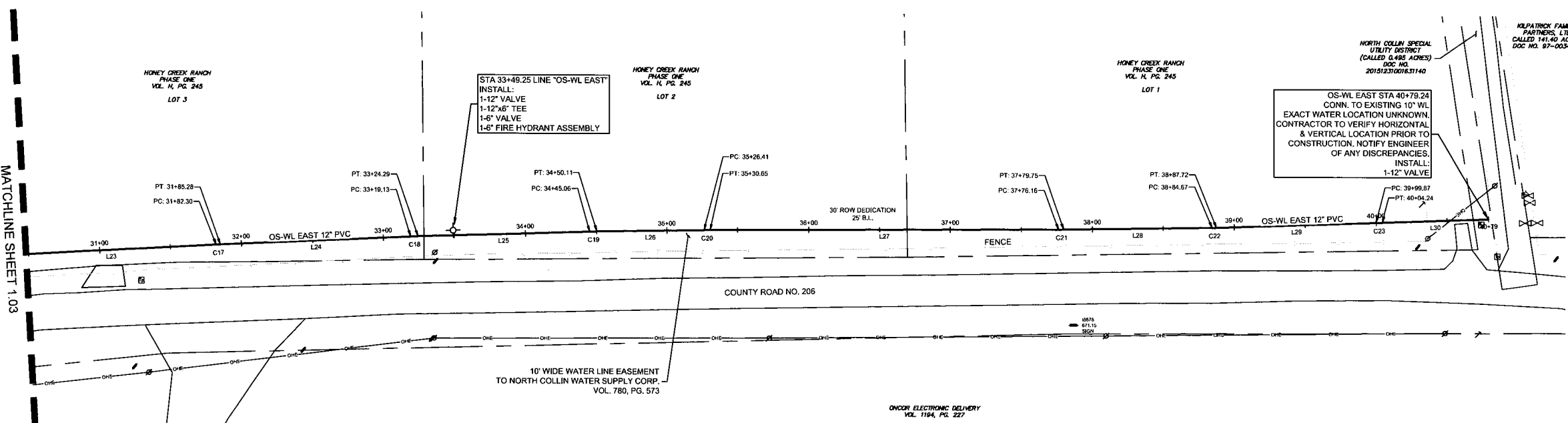
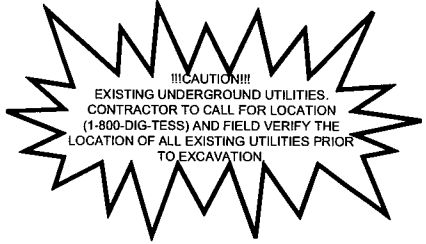
CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND



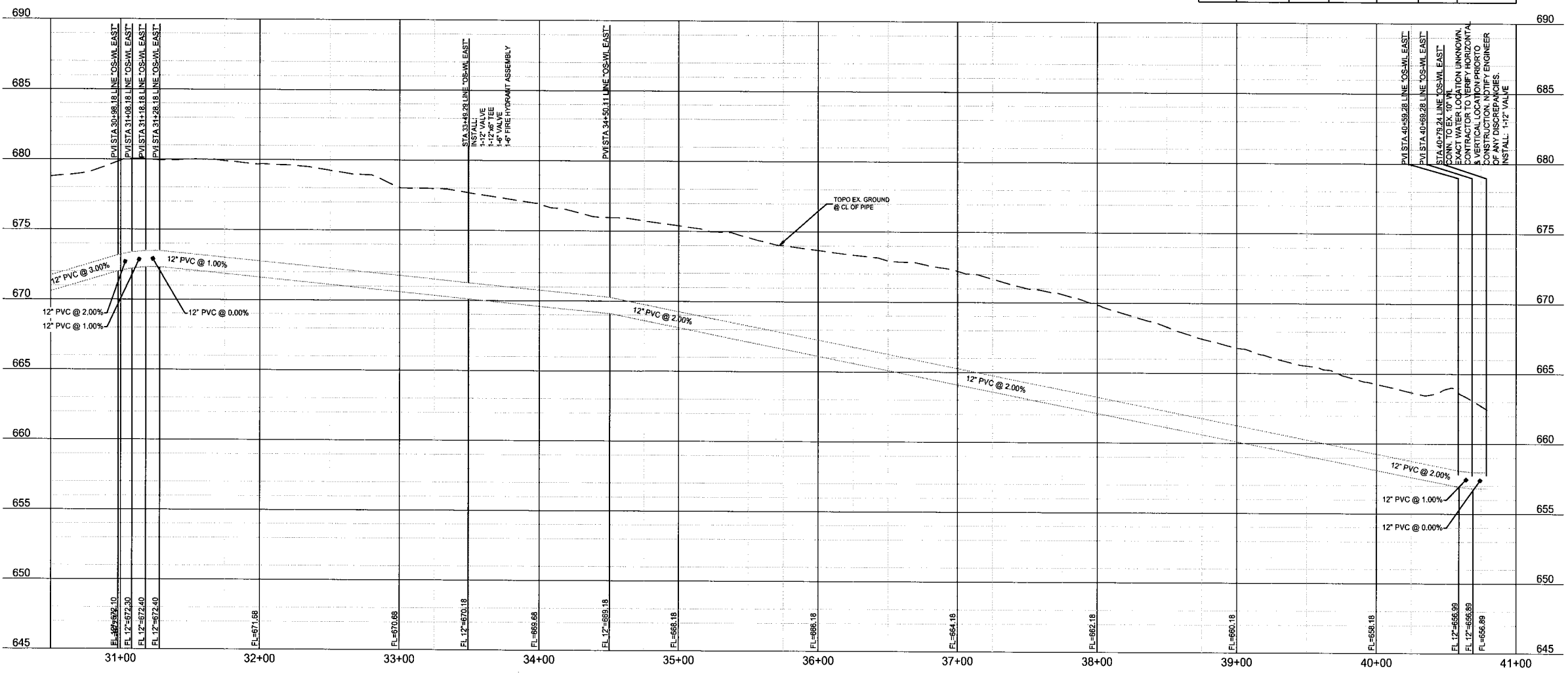
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 - CONTRACTOR TO REPLACE CONCRETE/GRAVEL DRIVEWAYS OR HOMEOWNERS' AS NECESSARY. NOTIFY HOMEOWNER PRIOR TO REMOVAL & REPLACEMENT.
 - CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY FENCING DURING CONSTRUCTION.



LINE TABLE			LINE TABLE		
LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
L23	148.71'	N86° 54' 50"E	L27	245.51'	N89° 41' 18"E
L24	133.85'	N87° 23' 14"E	L28	104.92'	N89° 07' 02"E
L25	120.77'	N88° 12' 33"E	L29	112.15'	N88° 00' 38"E
L26	76.30'	N89° 00' 46"E	L30	75.00'	N87° 56' 11"E

CURVE TABLE						
CURVE	DELTA	RADIUS	TANGENT	LENGTH	CHORD	BEARING
C17	000° 28' 27"	360.00'	1.49'	2.98'	2.98'	N87° 09' 02"E
C18	000° 49' 16"	360.00'	2.58'	5.16'	5.16'	N87° 47' 54"E
C19	000° 48' 13"	360.00'	2.53'	5.05'	5.05'	N88° 36' 40"E
C20	000° 40' 29"	360.00'	2.12'	4.24'	4.24'	N89° 21' 02"E
C21	000° 34' 17"	360.00'	1.80'	3.59'	3.59'	N89° 24' 10"E
C22	000° 29' 08"	360.00'	1.53'	3.05'	3.05'	N88° 52' 28"E
C23	000° 41' 44"	360.00'	2.19'	4.37'	4.37'	N88° 17' 03"E

OS-WL EAST



BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX 82' SOUTH OF THE CENTERLINE OF RIGSBY LANE. ELEVATION = 745.65'

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2.945' NORTH OF THE CENTERLINE OF CR 206. ELEVATION = 733.37'

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 206. ELEVATION = 717.56'

PRELIMINARY - FOR REVIEW ONLY -

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JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME PE # DATE

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE
WATER PLAN & PROFILE - OS-WL EAST (30+50-41+00)

WESTON, COLLIN COUNTY, TEXAS



TEXAS REGISTERED ENGINEERING FIRM NO. 12207
10000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (480) 213-1800

DRAWN:	DATE:	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	1.04
REVIEWER: JWR			

CALL 91.816 AC.
TRACT ONE
HONEY CREEK RANCH CORP
VOL. 5939, PG. 3812

!!!CAUTION!!!
EXISTING UNDERGROUND UTILITIES.
CONTRACTOR TO CALL FOR LOCATION
(1-800-DIG-TESS) AND FIELD VERIFY THE
LOCATION OF ALL EXISTING UTILITIES PRIOR
TO EXCAVATION.

!!!CAUTION!!!
EXISTING GAS MAIN AND UNDERGROUND
UTILITIES. CONTRACTOR TO FIELD VERIFY
THE LOCATION OF ALL EXISTING UTILITIES
PRIOR TO EXCAVATION AND NOTIFY
ENGINEER OF ANY DISCREPANCIES.

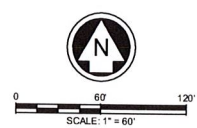
ID - all sheets
creeks
roads

ID
Lift station

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING
AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES
VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND

- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED PLUG
- EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED STORM DRAIN

- NOTES:
- ALL MANHOLES GREATER THAN 12 FEET DEEP SHALL BE A MINIMUM OF 6 FEET (60 INCHES) IN DIAMETER AND SHALL HAVE AN EXTERIOR DROP CONNECTION.
 - ALL SEWER MAINS SHALL BE CONSTRUCTED UTILIZING SDR-26 PIPE.
 - CONTRACTOR SHALL PRESSURE RATE THE SANITARY SEWER PIPE AT ALL CROSSINGS BETWEEN THE WATERLINE AND THE SANITARY SEWER PIPE IN ACCORDANCE WITH TCEQ REGULATIONS.
 - SEPARATION BETWEEN WATERLINE AND SANITARY SEWER CROSSINGS SHALL CONFORM TO TCEQ'S CHAPTER 290.44(e), AND CHAPTER 317.13 APPENDIX E.
 - SERVICES THAT CONNECT INTO AN SDR26 MAINLINE WILL BE CONSIDERED DEEP SEWER SERVICES.
 - SEWER MANHOLES IN THE FLOODPLAIN ARE REQUIRED TO HAVE SEALED LIDS THAT CONFORM TO THE CITY STANDARDS. EVERY THIRD MANHOLE WITHIN THE SHALL BE VENTED IN ACCORDANCE WITH TCEQ REGULATIONS.
 - CLASS "H" EMBEDMENT.
 - FOR UTILITY AND OTHER TRENCHES (PUBLIC AND PRIVATE) UNDER PAVEMENT, BACKFILL SHALL BE TESTED AT 100-FOOT SPACING IN EACH LIFT. FOR MANHOLES AND JUNCTION BOXES THE SPIRAL TESTING METHOD SHALL BE UTILIZED; HOWEVER, TWO TESTS PER LIFT 180 DEGREES APART WILL BE TAKEN.

BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62' SOUTH OF THE CENTERLINE OF RIGSBY LANE ELEVATION = 745.85'

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2,946' NORTH OF THE CENTERLINE OF CR 206 ELEVATION = 733.37'

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 206 ELEVATION = 717.56'

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JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME PE # DATE

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE

SANITARY SEWER PLAN OVERALL

WESTON, COLLIN COUNTY, TEXAS



TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 273-1800

DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	2.01
REVIEWER: JWR			

MATCHLINE SHEET 2.02

CALL 284.8510 AC.
WESTON-LAND, LTD.
VOL. 5984, PG. 2819
D.R.C.C.T.

Drawn: J. L. L. 12/16/2020, 10:00 AM, 12/16/2020 10:00 AM
Last Saved: 12/16/2020 10:00 AM
Plot Date: 12/16/2020 10:00 AM

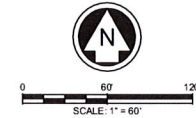
FIRST SUBMITTAL

VENETIAN AT WESTON OFFSITE UTILITIES

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING
AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES
VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND

- | | |
|--|---------------------------------|
| | PROPOSED SANITARY SEWER LINE |
| | PROPOSED SANITARY SEWER SERVICE |
| | PROPOSED PLUG |
| | EXISTING SANITARY SEWER LINE |
| | PROPOSED WATER LINE |
| | EXISTING WATER LINE |
| | PROPOSED STORM DRAIN |

- NOTES:
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 4. SEPARATION BETWEEN WATERLINE AND SANITARY SEWER CROSSINGS SHALL CONFORM TO TCEQ'S CHAPTER 290.44(e), AND CHAPTER 317.13 APPENDIX E.
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BENCHMARKS

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JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME PE # DATE

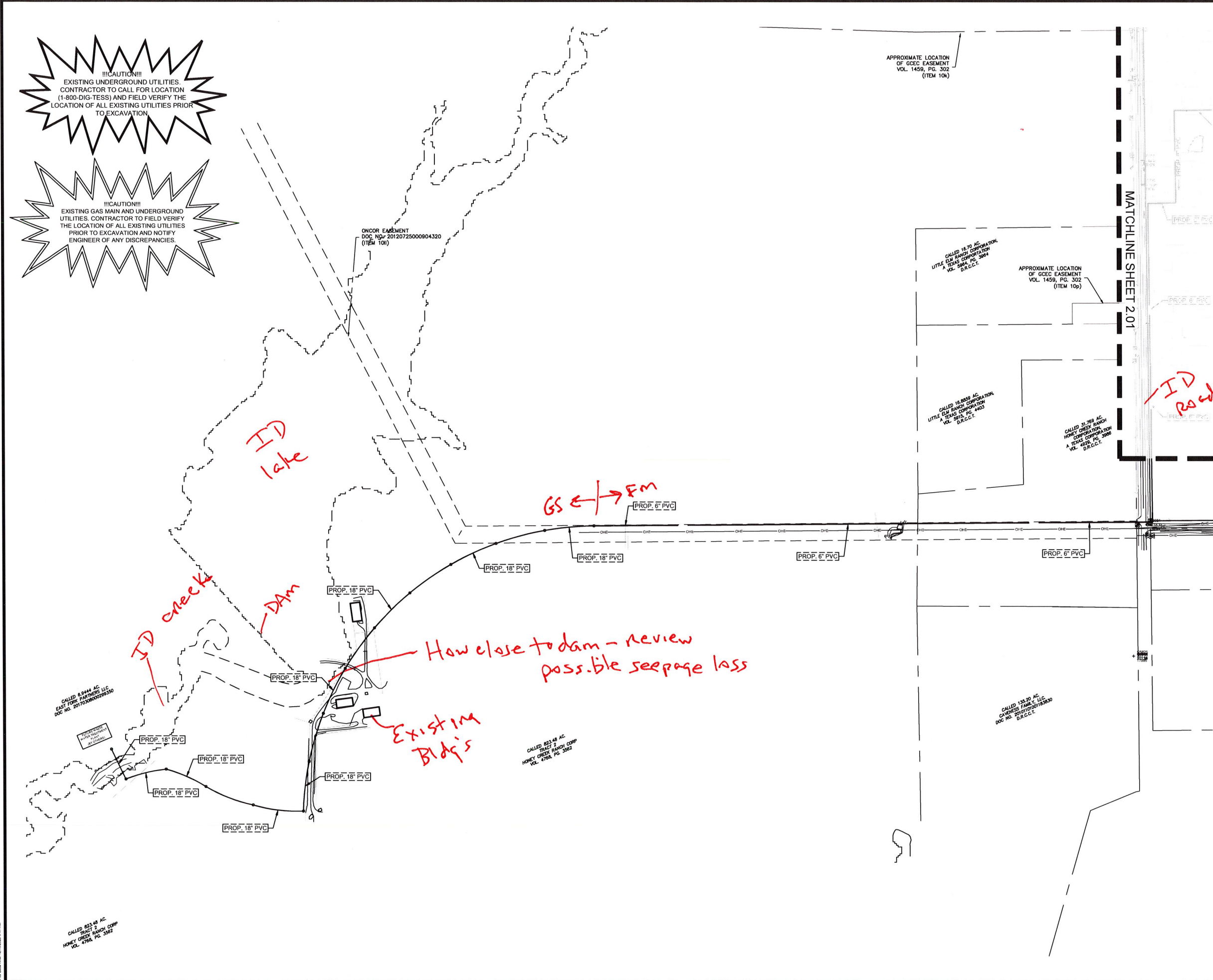
NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE
SANITARY SEWER PLAN OVERALL

WESTON, COLLIN COUNTY, TEXAS



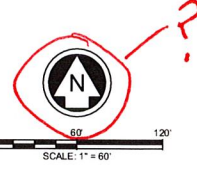
DRAWN: MCM	DATE: DECEMBER 2020	PROJECT #	SHEET
DESIGNED: MCM	2020	LEN20001	2.02
REVIEWER: JWR			



NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND

- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED PLUG
- EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
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clarify - where used + need detail

BENCHMARKS

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PRELIMINARY -FOR REVIEW ONLY-

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JAY W. REISSIG 54971 12/18/2020
TYPE OR PRINT NAME P.E. DATE

NO.	DATE	REVISION

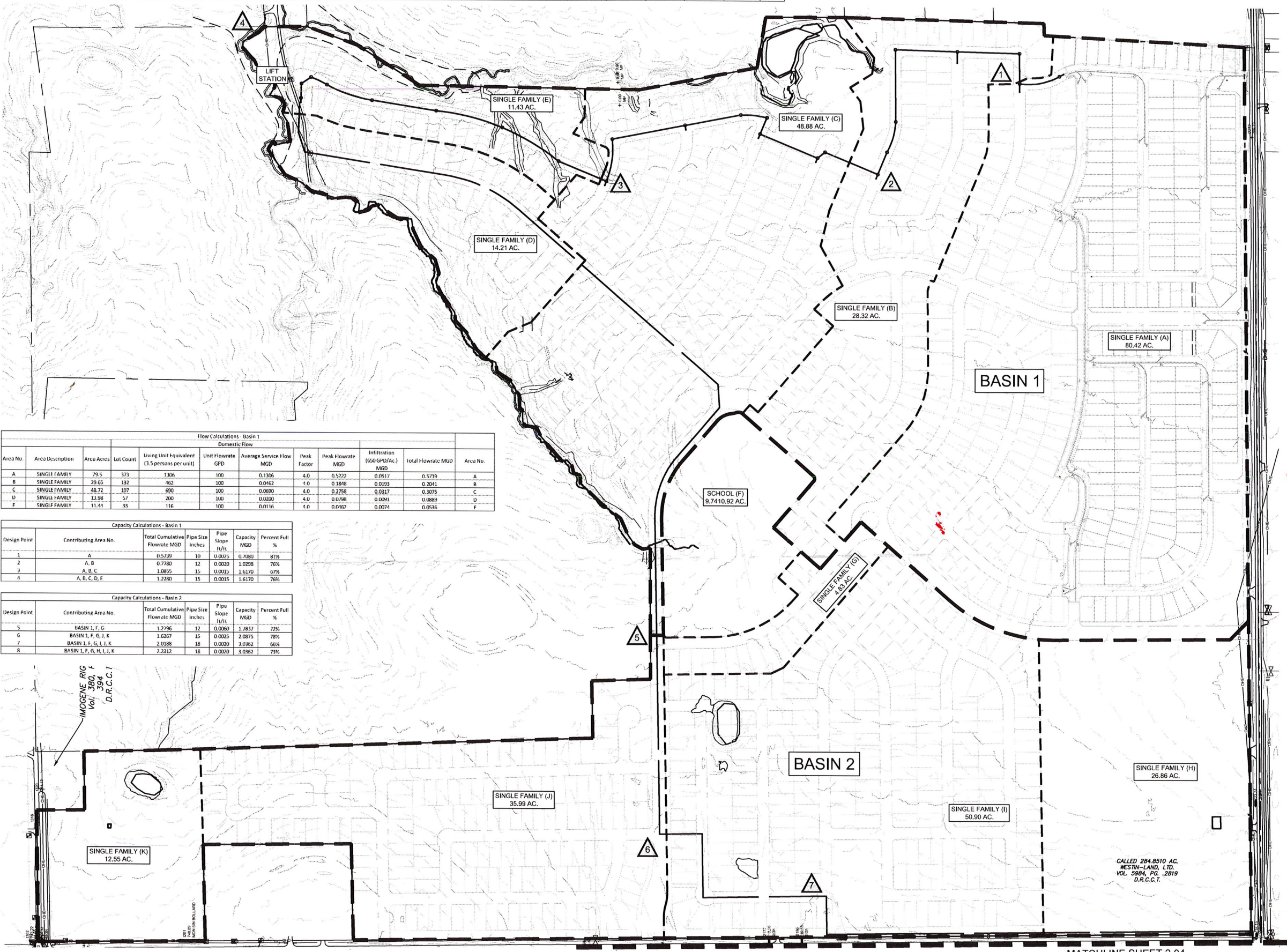
VENETIAN AT WESTON OFFSITE
SANITARY SEWER BASIN AREA
MAP

WESTON, COLLIN COUNTY, TEXAS



DRAWN: MCM	DATE: DECEMBER 2020	PROJECT #: LEN20001	SHEET: 2.03
DESIGNED: MCM	REVIEWER: JWR		

Flow Calculations - Basin 2																Area No.			
Domestic Flow				Commercial Flow				School Flow				Infiltration							
Area No.	Area Description	Area Acres	Lot Count	Living Unit Equivalent (3.5 persons per unit)	Unit Flowrate GPD	Average Service Flow MGD	Peak Factor	Peak Flowrate MGD	Commercial Area Acres	Unit Equivalent (90 persons per acre)	Unit Flowrate GPD	Average Service Flow MGD	School Area Acres	Unit Equivalent	Unit Flowrate GPD	Average Service Flow MGD	Infiltration (650 GPD/Ac.) MGD	Total Flowrate MGD	
I	SCHOOL	9.74											9.74	600	15	0.0090	0.0063	0.0153	I
G	SINGLE FAMILY	4.80	73	81	100	0.0081	4.0	0.0327									0.0031	0.0353	G
H	SINGLE FAMILY	25.35	140	490	100	0.0490	4.0	0.1960									0.0165	0.2175	H
J	SINGLE FAMILY	49.26	257	900	100	0.0900	4.0	0.3598									0.0230	0.3416	J
I	SINGLE FAMILY	31.75	166	581	100	0.0581	4.0	0.2324									0.0026	0.2350	I
K	SINGLE FAMILY	12.55	60	210	100	0.0210	4.0	0.0840									0.0082	0.0922	K



Flow Calculations - Basin 1											Area No.
Domestic Flow											
Area No.	Area Description	Area Acres	Lot Count	Living Unit Equivalent (3.5 persons per unit)	Unit Flowrate GPD	Average Service Flow MGD	Peak Factor	Peak Flowrate MGD	Infiltration (650 GPD/Ac.) MGD	Total Flowrate MGD	
A	SINGLE FAMILY	79.5	173	1306	100	0.1306	4.0	0.5222	0.0517	0.5739	A
B	SINGLE FAMILY	29.65	132	462	100	0.0462	4.0	0.1848	0.0193	0.2041	B
C	SINGLE FAMILY	48.72	197	690	100	0.0690	4.0	0.2758	0.0317	0.3075	C
D	SINGLE FAMILY	12.98	57	200	100	0.0200	4.0	0.0798	0.0091	0.0889	D
F	SINGLE FAMILY	11.44	33	116	100	0.0116	4.0	0.0462	0.0074	0.0536	F








Capacity Calculations - Basin 1						
Design Point	Contributing Area No.	Total Cumulative Flowrate MGD	Pipe Size Inches	Pipe Slope ft/ft	Capacity MGD	Percent Full %
1	A	0.5789	10	0.0027	0.7080	81%
2	A, B	0.7780	12	0.0020	1.0298	76%
3	A, B, C	1.0855	15	0.0015	1.6170	67%
4	A, B, C, D, F	1.2280	15	0.0015	1.6170	76%

Capacity Calculations - Basin 2						
Design Point	Contributing Area No.	Total Cumulative Flowrate MGD	Pipe Size Inches	Pipe Slope ft/ft	Capacity MGD	Percent Full %
5	BASIN 1, F, G	1.2796	12	0.0050	1.2837	72%
6	BASIN 1, F, G, J, K	1.6267	15	0.0025	2.0875	78%
7	BASIN 1, F, G, J, I, K	2.0188	18	0.0020	3.0362	66%
8	BASIN 1, F, G, H, I, J, K	2.2312	18	0.0020	3.0362	73%

Drawn: J. L. H. 12/18/2020, 11:48 AM
Unit: Feet
Scale: 1" = 60'
Date: 12/18/2020 8:41 AM

Capacity Calculations - Basin 4						
Design Point	Contributing Area No.	Total Cumulative Flowrate MGD	Pipe Size inches	Pipe Slope ft/ft	Capacity MGD	Percent Full %
11	BASIN 1, BASIN 2, BASIN 3	4.2091	18	0.0080	6.0774	69%

LEGEND

	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER SERVICE
	PROPOSED PLUG
	EXISTING SANITARY SEWER LINE
	PROPOSED WATER LINE
	EXISTING WATER LINE
	PROPOSED STORM DRAIN

- NOTES:
1. ALL MANHOLES GREATER THAN 12 FEET DEEP SHALL BE A MINIMUM OF 5 FEET (60 INCHES) IN DIAMETER AND SHALL HAVE AN EXTERIOR DROP CONNECTION.
 2. ALL SEWER MAINS SHALL BE CONSTRUCTED UTILIZING SDR-26 PIPE.
 3. CONTRACTOR SHALL PRESSURE RATE THE SANITARY SEWER PIPE AT ALL CROSSINGS BETWEEN THE WATERLINE AND THE SANITARY SEWER PIPE IN ACCORDANCE WITH TCEQ REGULATIONS.
 4. SEPARATION BETWEEN WATERLINE AND SANITARY SEWER SERVICES SHALL CONFORM TO TCEQ'S CHAPTER 290.40-A, AND CHAPTER 317.73 AS AMENDX E.
 5. CONNECTIONS THAT CONNECT INTO AN SSES MAINLINE WILL BE CONSIDERED DEEP SEWER SERVICES.
 6. SEWER MANHOLES IN THE FLOODPLAIN ARE REQUIRED TO HAVE SEALED LIDS THAT CONFORM TO THE CITY STANDARDS. EVERY THIRD MANHOLE WITHIN THE SHALL BE VENTED IN ACCORDANCE WITH TCEQ REGULATIONS.
 7. CLASS "B" EMBEDEDMENT.
 8. FOR UTILITY AND OTHER TRENCHES (PUBLIC AND PRIVATE) UNDER PAVEMENT, BACKFILL SHALL BE TESTED AT 100-FOOT SPACING IN EACH LIFT. FOR MANHOLES AND JUNCTION BOXES THE SPIRAL TESTING METHOD SHALL BE UTILIZED. HOWEVER, TWO TESTS PER LIFT 180 DEGREES APART WILL BE TAKEN.

3M #1 - "X" CUT ON HEADWALL OF
THE EAST SIDE OF FM 543,
APPROX. 62' SOUTH OF THE
CENTERLINE OF RIGSBY LANE
ELEVATION = 745.65'

3M #2 - "X" CUT ON HEADWALL OF
THE WEST SIDE OF FM 543,
APPROXIMATELY 2,946' NORTH OF
THE CENTERLINE OF CR 206
ELEVATION = 733.37'

3M #3- "X" CUT ON HEADWALL AT
THE SOUTHEAST CORNER OF THE
INTERSECTION OF FM 543 AND CR
206
ELEVATION = 717.56'

THESE DOCUMENTS ARE FOR
DESIGN REVIEW ONLY AND ARE
NOT INTENDED FOR
CONSTRUCTION, BIDDING, OR
PERMIT PURPOSE. THEY ARE
PREPARED BY, OR UNDER THE
SUPERVISION OF:

RAY W. REISSIG	94971	12/16/2020
TYPE OR PRINT NAME	PE #	DATE

NO.	DATE	REVISION

WESTON, COLLIN COUNTY, TEXAS



DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	2.04
REVIEWER: JWR			

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



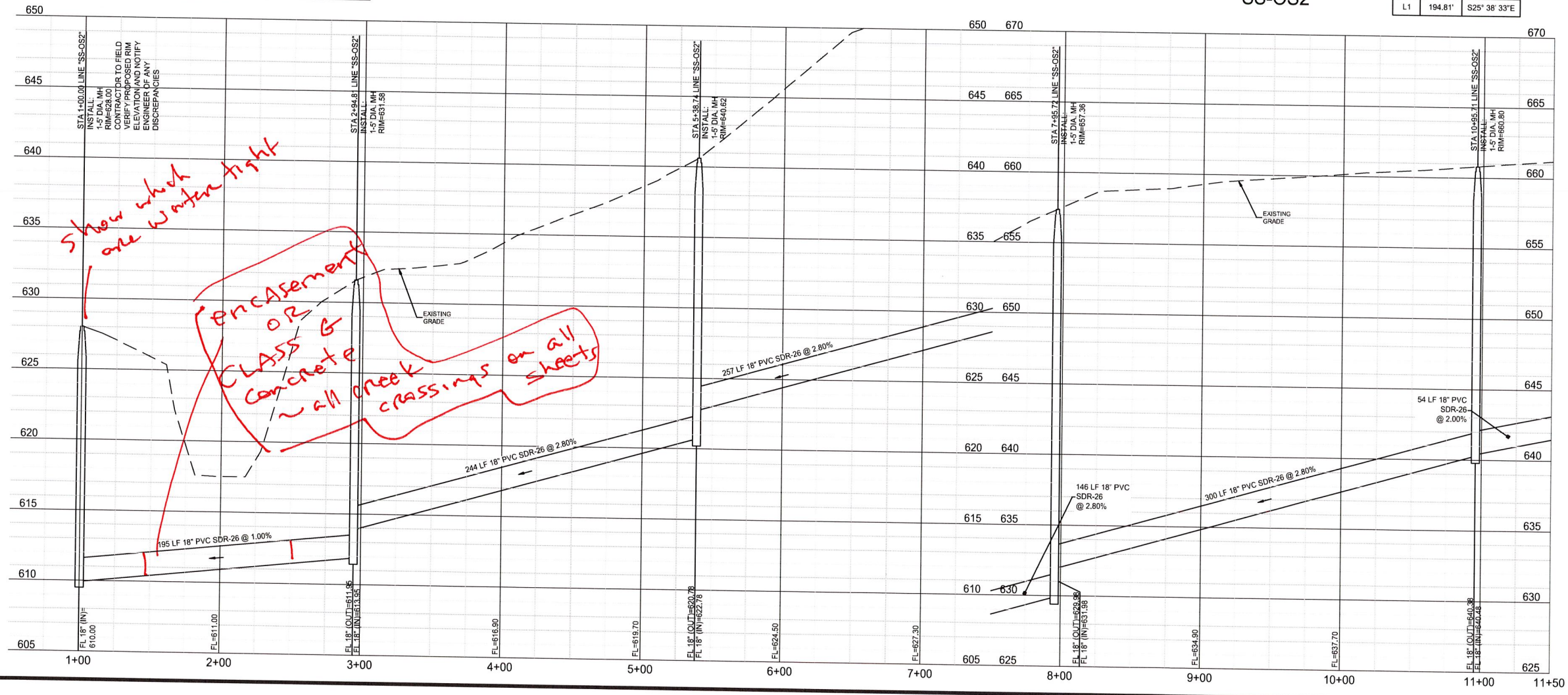
LEGEND

- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED PLUG
- EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED STORM DRAIN

- NOTES:
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 - SERVICES THAT CONNECT INTO AN SDR26 MAINLINE WILL BE CONSIDERED DEEP SEWER SERVICES.
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CURVE TABLE						
CURVE	DELTA	RADIUS	TANGENT	LENGTH	CHORD	BEARING
C1	015° 31' 44"	900.00'	122.72'	243.93'	243.18'	N76° 11' 01"E
C2	016° 21' 36"	900.00'	129.37'	256.98'	256.11'	S66° 27' 09"E
C3	019° 05' 54"	900.00'	151.40'	300.00'	298.61'	S68° 46' 56"E

LINE TABLE		
LINE	LENGTH	BEARING
L1	194.81'	S25° 38' 33"E



BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62' SOUTH OF THE CENTERLINE OF RISSBY LANE ELEVATION = 745.65'

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2.946' NORTH OF THE CENTERLINE OF CR 206 ELEVATION = 733.37'

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 206 ELEVATION = 717.58'

PRELIMINARY - FOR REVIEW ONLY -

THESE DOCUMENTS ARE FOR DESIGN REVIEW ONLY AND ARE NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSE. THEY ARE PREPARED BY, OR UNDER THE SUPERVISION OF:

JAY W. REISSIG 04971 12/16/2020
TYPE OR PRINT NAME P.E. DATE

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE

SEWER PLAN & PROFILE - SS-OS2 (6+50-12+00)

WESTON, COLLIN COUNTY, TEXAS

PELOTON
LAND SOLUTIONS

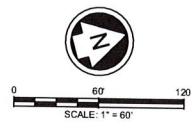
TEXAS REGISTRATION ENGINEERING FIRM NO. 12027
11000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 273-1800

DRAWN: MCM	DATE: DECEMBER 2020	PROJECT #: LEN20001	SHEET: 2.05
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NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

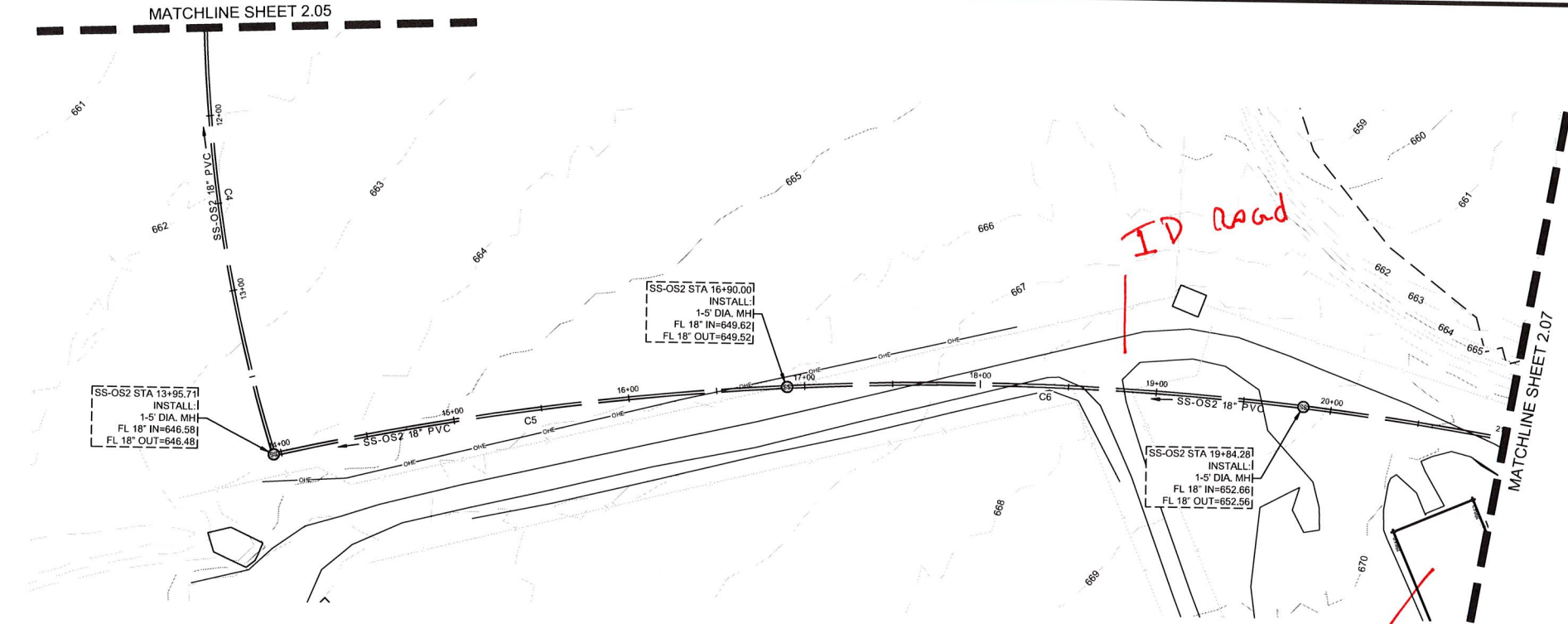
CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND

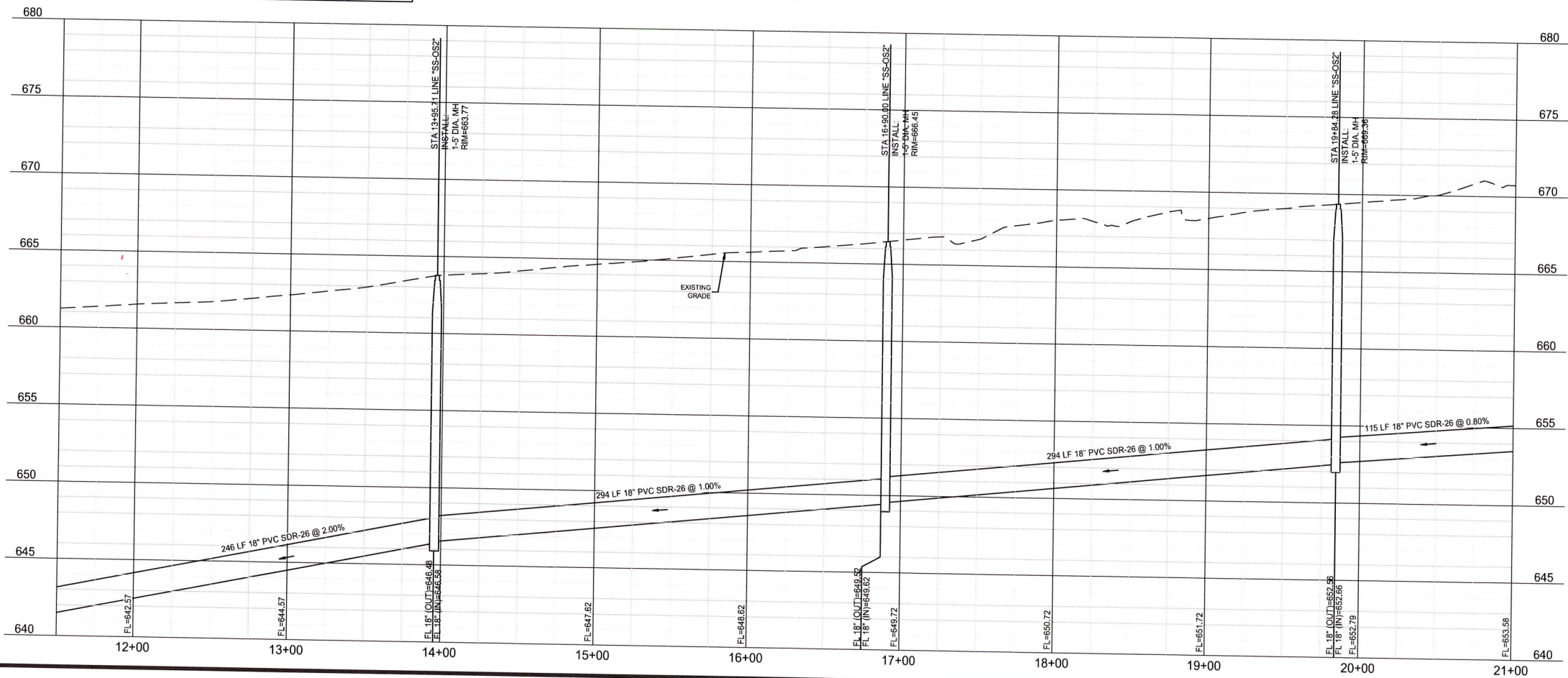
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED PLUG
- EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED STORM DRAIN

- NOTES:
- ALL MANHOLES GREATER THAN 12 FEET DEEP SHALL BE A MINIMUM OF 5 FEET (60 INCHES) IN DIAMETER AND SHALL HAVE AN EXTERIOR DROP CONNECTION.
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 - CONTRACTOR SHALL PRESSURE RATE THE SANITARY SEWER PIPE AT ALL CROSSINGS BETWEEN THE WATERLINE AND THE SANITARY SEWER PIPE IN ACCORDANCE WITH TCEQ REGULATIONS.
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CURVE TABLE						
CURVE	DELTA	RADIUS	TANGENT	LENGTH	CHORD	BEARING
C4	019° 05' 54"	900.00'	151.40'	300.00'	298.61'	S83° 05' 40"E
C5	009° 44' 57"	1729.50'	147.50'	294.28'	293.93'	N06° 43' 01"E
C6	009° 44' 57"	1729.50'	147.50'	294.28'	293.93'	N16° 27' 58"E

SS-OS2



BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543. APPROX. 62' SOUTH OF THE CENTERLINE OF RIGSBY LANE. ELEVATION = 745.65'

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543. NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSE. THEY ARE PREPARED BY, OR UNDER THE SUPERVISION OF:

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 206. ELEVATION = 717.56'

PRELIMINARY
-FOR REVIEW ONLY-

THESE DOCUMENTS ARE FOR DESIGN REVIEW ONLY AND ARE NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSE. THEY ARE PREPARED BY, OR UNDER THE SUPERVISION OF:

JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME RE # DATE

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE

SEWER PLAN & PROFILE - SS-OS2
(12+00-22+00)

WESTON, COLLIN COUNTY, TEXAS

PELOTON
LAND SOLUTIONS

TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11500 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 213-1800

DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	2.06
REVIEWER: JWR			

FIRST SUBMITTAL

VENETIAN AT WESTON OFFSITE UTILITIES

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

0 60' 120'

SCALE: 1" = 60'

LEGEND

	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER SERVICE
	PROPOSED PLUG
	EXISTING SANITARY SEWER LINE
	PROPOSED WATER LINE
	EXISTING WATER LINE
	PROPOSED STORM DRAIN

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BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62' SOUTH OF THE CENTERLINE OF RIGSBY LANE. ELEVATION = 745.65'

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2.946' NORTH OF THE CENTERLINE OF CR 205. ELEVATION = 733.37'

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 205. ELEVATION = 717.56'

PRELIMINARY - FOR REVIEW ONLY.

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JAY W. REISSIG	94971	12/16/2020
TYPE OR PRINT NAME	PE #	DATE

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE

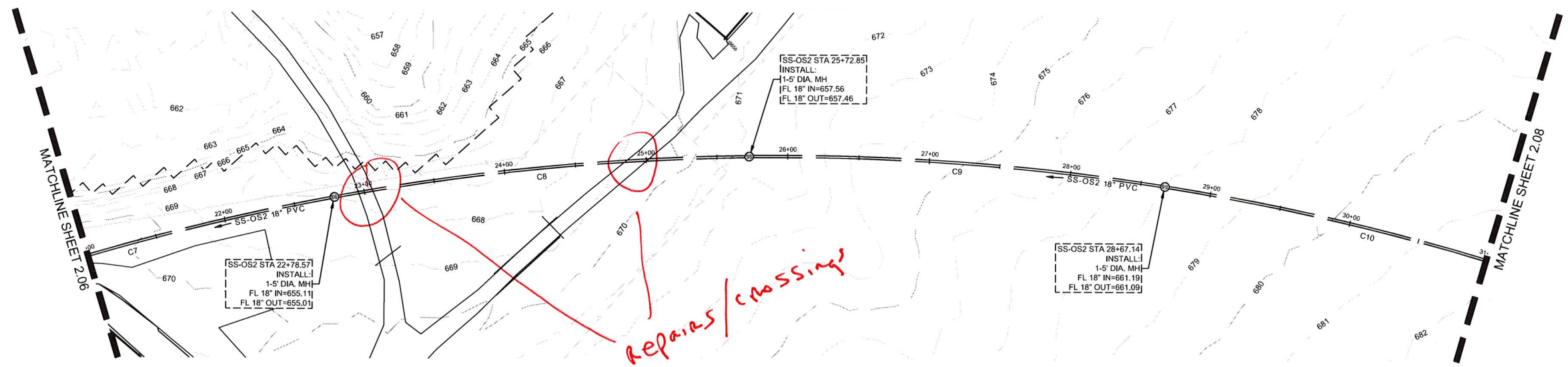
SEWER PLAN & PROFILE - SS-OS2 (22+00-32+00)

WESTON, COLLIN COUNTY, TEXAS

PELOTON
LAND SOLUTIONS

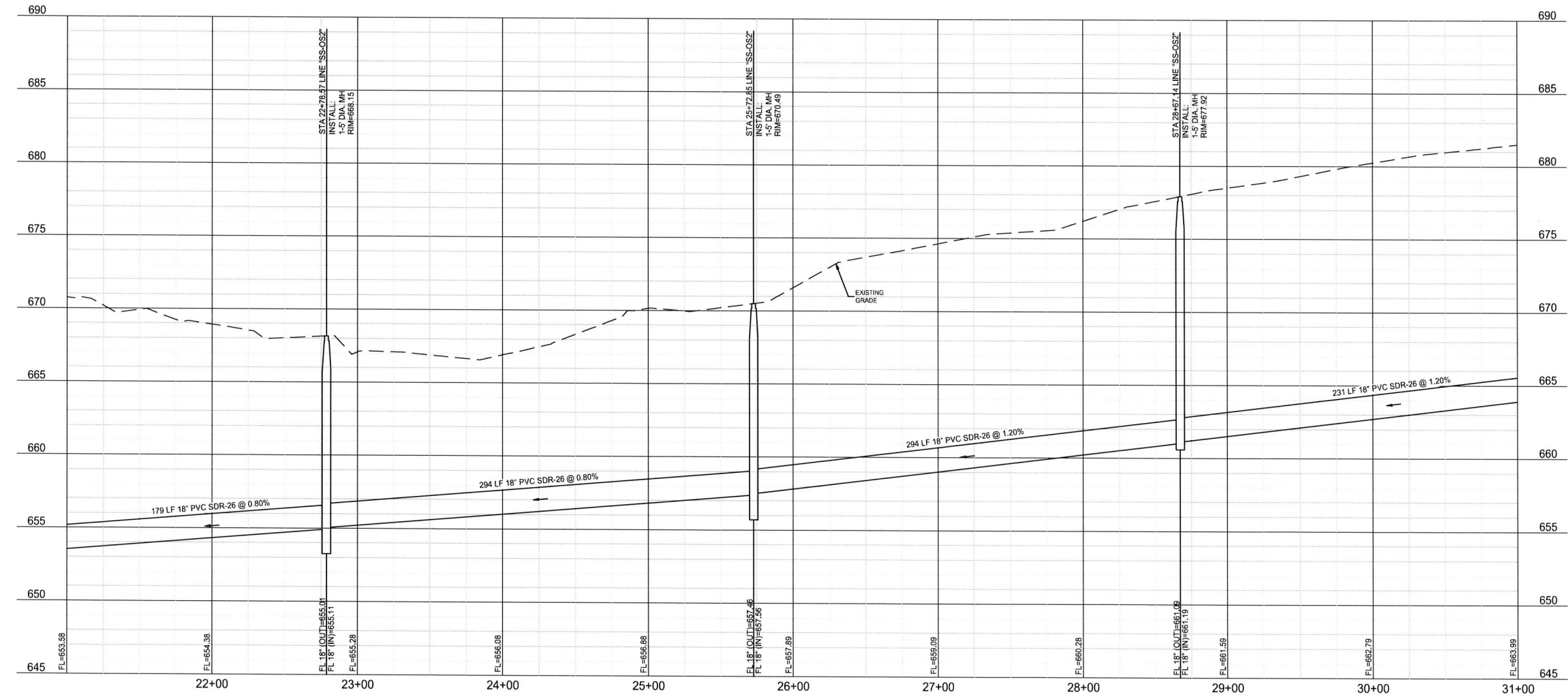
TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11500 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 213-1800

DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	2.07
REVIEWER: JWR			



CURVE TABLE						
CURVE	DELTA	RADIUS	TANGENT	LENGTH	CHORD	BEARING
C7	009° 44' 57"	1729.50'	147.50'	294.28'	293.93'	N26° 12' 56"E
C8	009° 44' 57"	1729.50'	147.50'	294.28'	293.93'	N35° 57' 53"E
C9	009° 44' 57"	1729.50'	147.50'	294.28'	293.93'	N45° 42' 50"E
C10	009° 44' 57"	1729.50'	147.50'	294.28'	293.93'	N55° 27' 48"E

SS-OS2

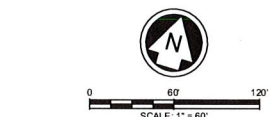


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Last Saved: 12/16/2020 9:44 AM
Plot Date/Time: 12/16/2020 9:44 AM

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-981-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND

- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED PLUG
- EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED STORM DRAIN

- NOTES:
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BENCHMARKS

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PRELIMINARY -FOR REVIEW ONLY-

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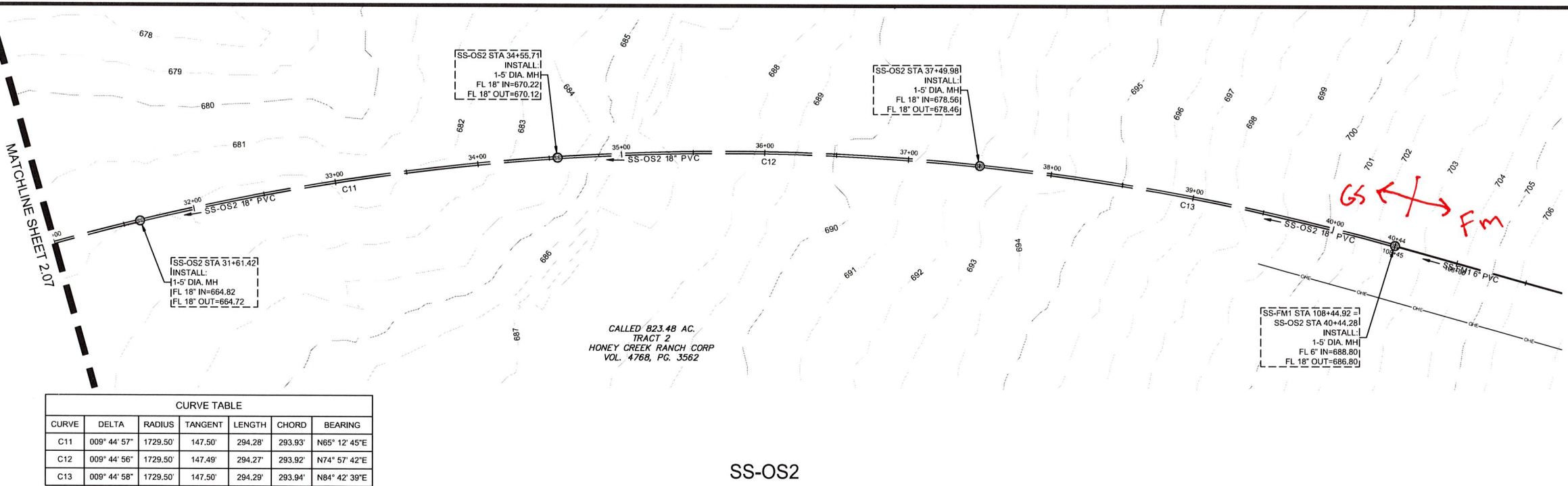
JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME PE # DATE

VENETIAN AT WESTON OFFSITE
SEWER PLAN & PROFILE - SS-OS2
(32+00-END)

WESTON, COLLIN COUNTY, TEXAS

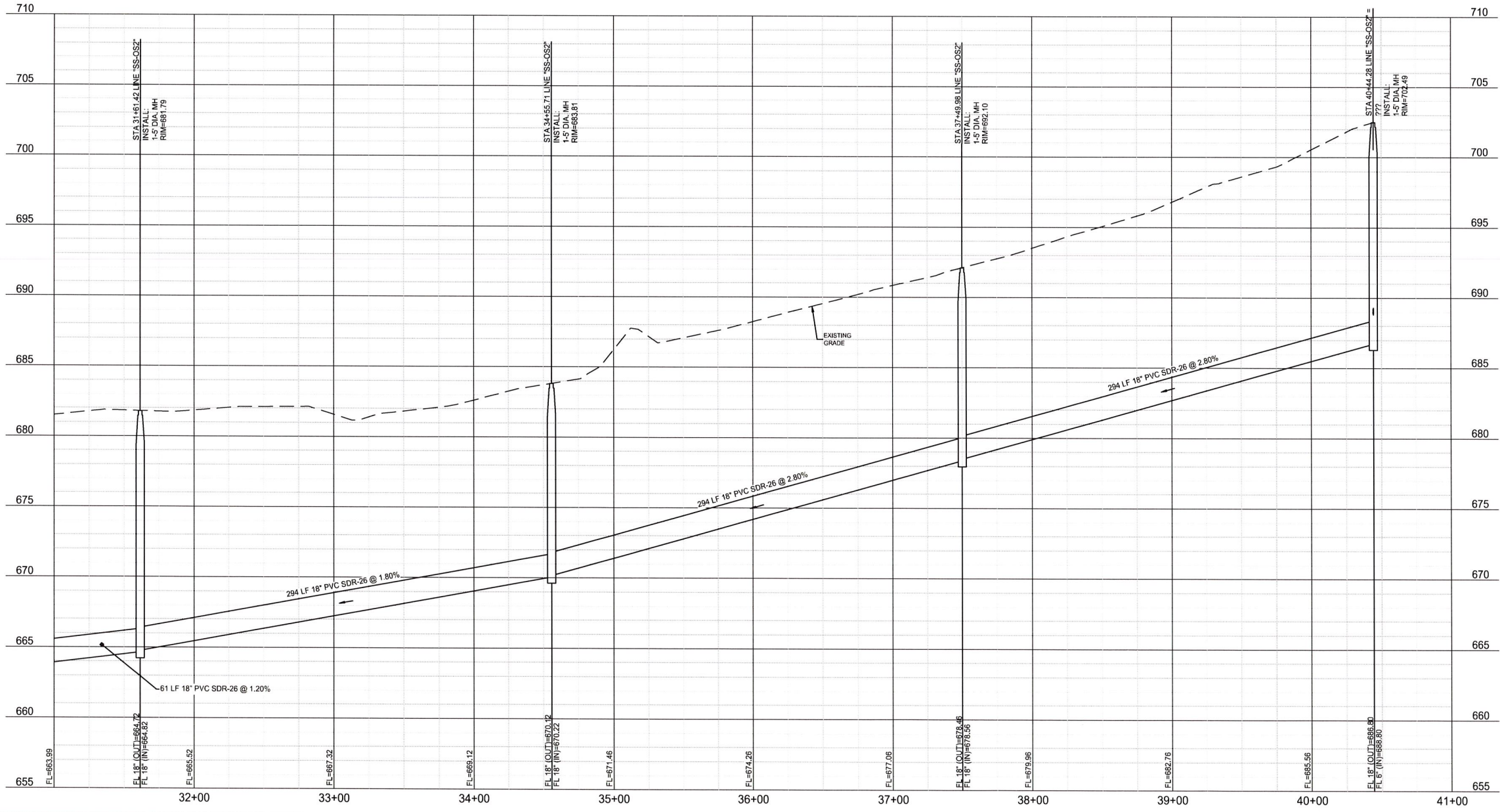


DRAWN: MCM	DATE: DECEMBER 2020	PROJECT #	SHEET
DESIGNED: MCM	2020	LEN20001	2.08
REVIEWER: JWR			



CURVE TABLE						
CURVE	DELTA	RADIUS	TANGENT	LENGTH	CHORD	BEARING
C11	009° 44' 57"	1729.50'	147.50'	294.28'	293.93'	N65° 12' 45"E
C12	009° 44' 56"	1729.50'	147.49'	294.27'	293.92'	N74° 57' 42"E
C13	009° 44' 58"	1729.50'	147.50'	294.29'	293.94'	N84° 42' 39"E

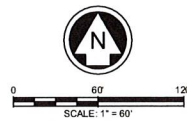
SS-OS2



NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING
AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES
VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.

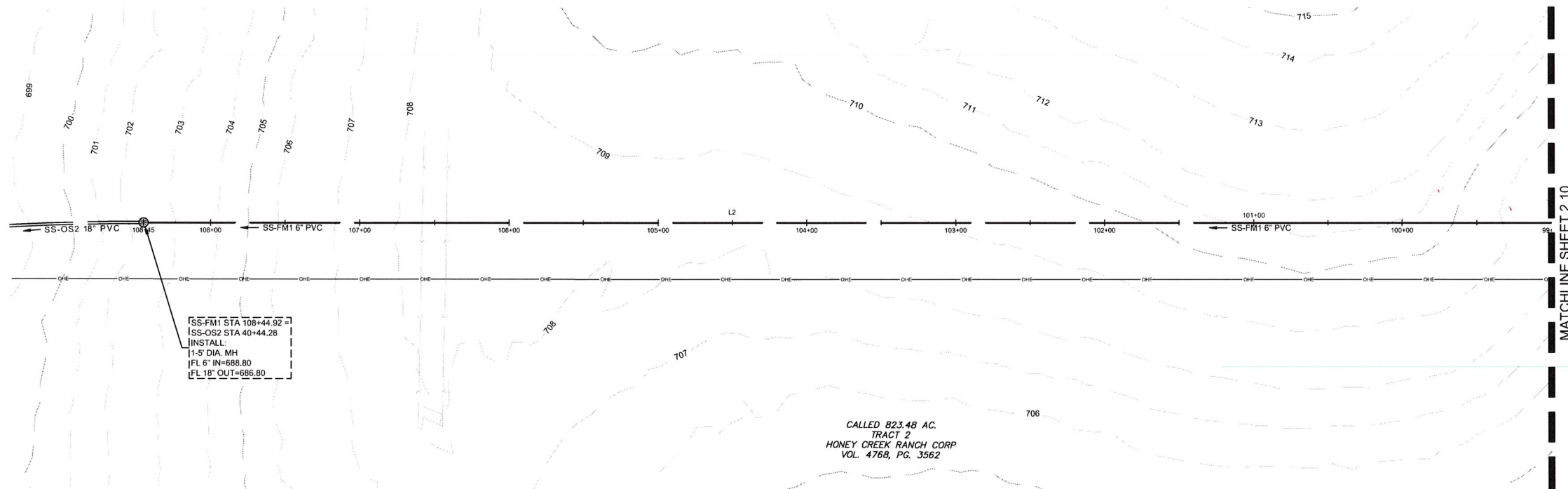


LEGEND

	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER SERVICE
	PROPOSED PLUG
	EXISTING SANITARY SEWER LINE
	PROPOSED WATER LINE
	EXISTING WATER LINE
	PROPOSED STORM DRAIN

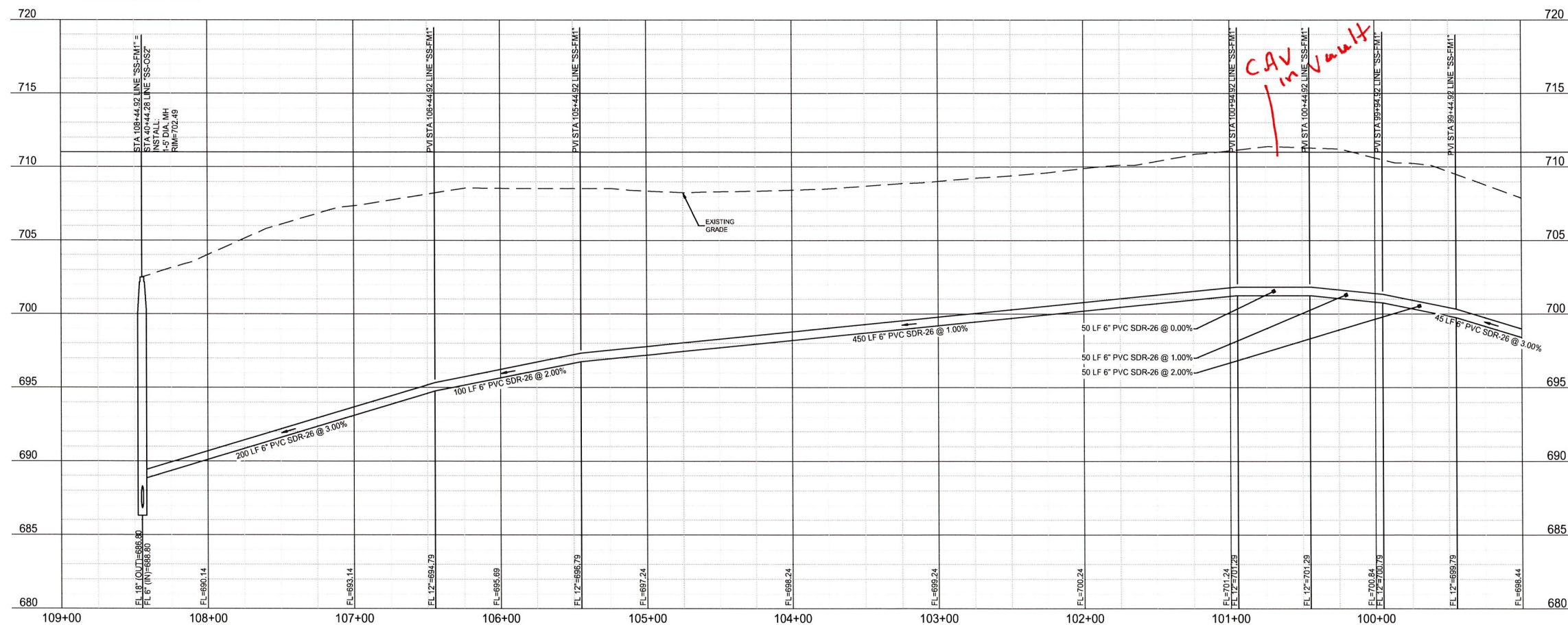
NOTES:

1. ALL MANHOLES GREATER THAN 12 FEET DEEP SHALL BE A MINIMUM OF 5 FEET (60 INCHES) IN DIAMETER AND SHALL HAVE AN EXTERIOR DROP CONNECTION.
2. ALL SEWER MAINS SHALL BE CONSTRUCTED UTILIZING SDR-26 PIPE.
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LINE TABLE		
LINE	LENGTH	BEARING
L2	3291.45'	S89° 35' 08" W

SS-FM1



BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62' SOUTH OF THE CENTERLINE OF RIGSBY LANE ELEVATION = 745.65'

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2.946' NORTH OF THE CENTERLINE OF CR 206 ELEVATION = 733.37'

BM #3 - "X" CUT ON HEADWALL AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FM 543 AND CR 206 ELEVATION = 717.56'

PRELIMINARY
-FOR REVIEW ONLY-

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JAY W. REISSIG 94971 12/16/2020
TYPE OR PRINT NAME PG # DATE

NO.	DATE	REVISION

VENETIAN AT WESTON OFFSITE
SEWER PLAN & PROFILE - SS-FM1
(99+00-END)

WESTON, COLLIN COUNTY, TEXAS



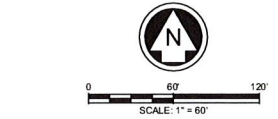
TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 213-1800

DRAWN: MCM	DATE: DECEMBER 2020	PROJECT #	SHEET
DESIGNED: MCM	2020	LEN20001	2.09
REVIEWER: JWR			

NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

TEXAS 811	1-800-344-8377
ATMOS GAS	972-881-4161
TXU ELECTRIC DELIVERY	1-800-711-9112
WESTON WATER SUPPLY	972-382-2245
NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



LEGEND

- | | |
|--|---------------------------------|
| | PROPOSED SANITARY SEWER LINE |
| | PROPOSED SANITARY SEWER SERVICE |
| | PROPOSED PLUG |
| | EXISTING SANITARY SEWER LINE |
| | PROPOSED WATER LINE |
| | EXISTING WATER LINE |
| | PROPOSED STORM DRAIN |

- NOTES:
- ALL MANHOLES GREATER THAN 12 FEET DEEP SHALL BE A MINIMUM OF 5 FEET (60 INCHES) IN DIAMETER AND SHALL HAVE AN EXTERIOR DROP CONNECTION.
 - ALL SEWER MAINS SHALL BE CONSTRUCTED UTILIZING SDR-26 PIPE.
 - CONTRACTOR SHALL PRESSURE RATE THE SANITARY SEWER PIPE AT ALL CROSSINGS BETWEEN THE WATERLINE AND THE SANITARY SEWER PIPE IN ACCORDANCE WITH TCEQ REGULATIONS.
 - SEPARATION BETWEEN WATERLINE AND SANITARY SEWER CROSSINGS SHALL CONFORM TO TCEQ'S CHAPTER 290.44(e), AND CHAPTER 317.13 APPENDIX E.
 - SERVICES THAT CONNECT INTO AN SDR26 MAINLINE WILL BE CONSIDERED DEEP SEWER SERVICES.
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 - CLASS "H" EMBEDMENT.
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BENCHMARKS

BM #1 - "X" CUT ON HEADWALL ON THE EAST SIDE OF FM 543, APPROX. 62' SOUTH OF THE CENTERLINE OF RIGSBY LANE ELEVATION = 745.85

BM #2 - "X" CUT ON HEADWALL ON THE WEST SIDE OF FM 543, APPROXIMATELY 2.945' NORTH OF THE CENTERLINE OF CR 206 ELEVATION = 733.37

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JAY W. REISSIG 94971 12/15/2020
TYPE OR PRINT NAME PG # DATE

NO.	DATE	REVISION

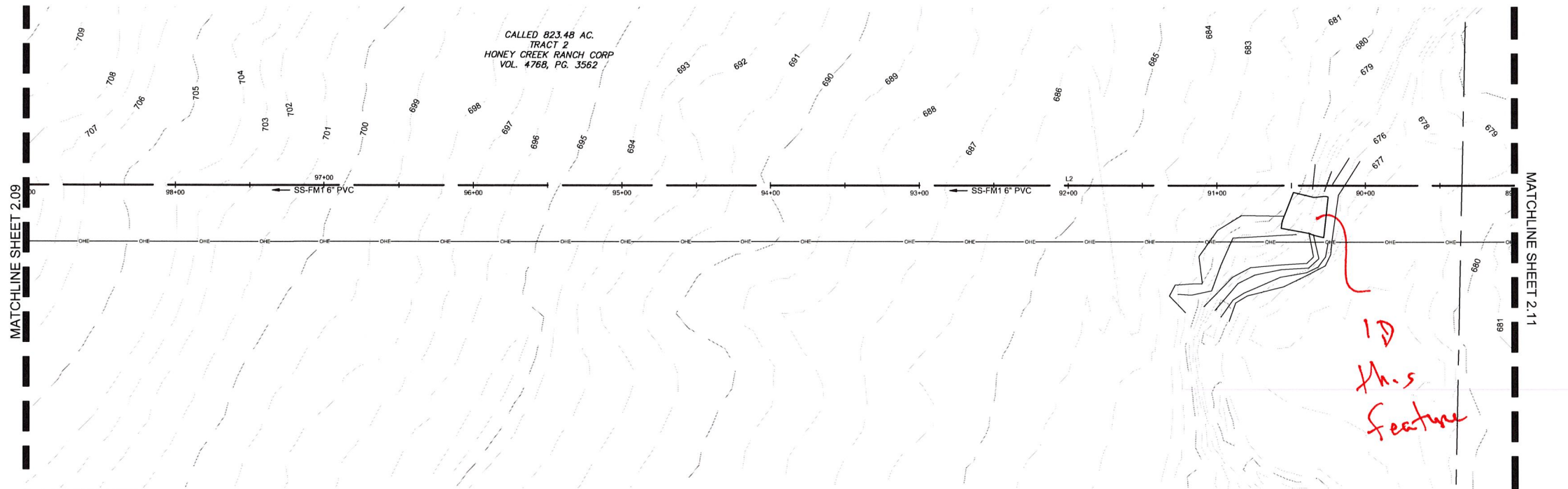
VENETIAN AT WESTON OFFSITE
SEWER PLAN & PROFILE - SS-FM1
(89+00-99+00)

WESTON, COLLIN COUNTY, TEXAS



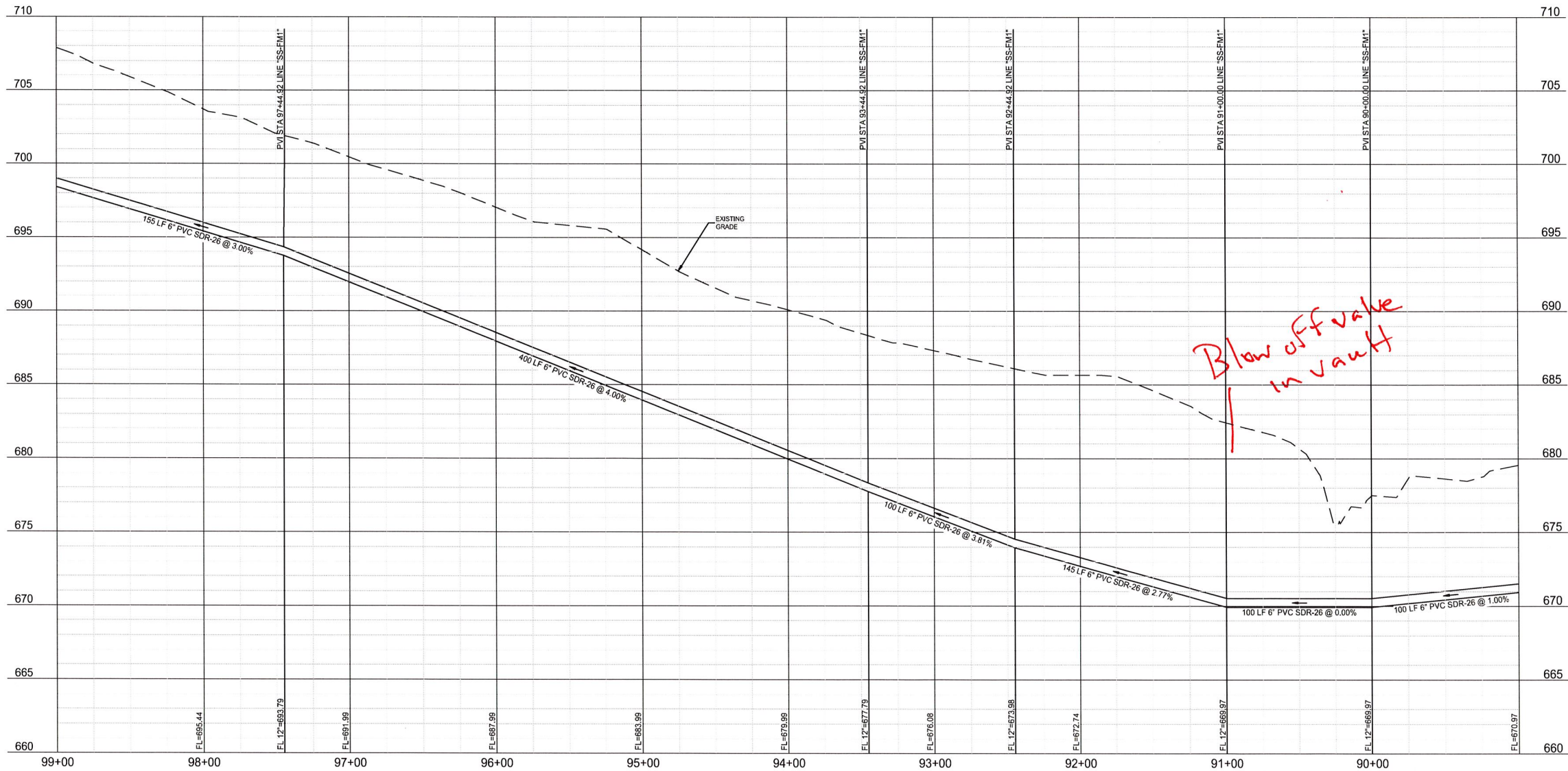
TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11009 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE: (469) 213-1800

DRAWN: MCM	DATE: DECEMBER 2020	PROJECT #: LEN20001	SHEET: 2.10
DESIGNED: MCM			
REVIEWER: JWR			



LINE TABLE		
LINE	LENGTH	BEARING
L2	3291.45'	S89° 35' 08"W

SS-FM1



NOTE: THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THIS AREA:

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NORTH COLLIN SUD	972-837-2331

CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION.



0 60 120
SCALE: 1" = 60'

LEGEND

- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED PLUG
- EXISTING SANITARY SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED STORM DRAIN

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JAY W. REISSIG 94971 12/18/2020
TYPE OR PRINT NAME RE # DATE

NO.	DATE	REVISION

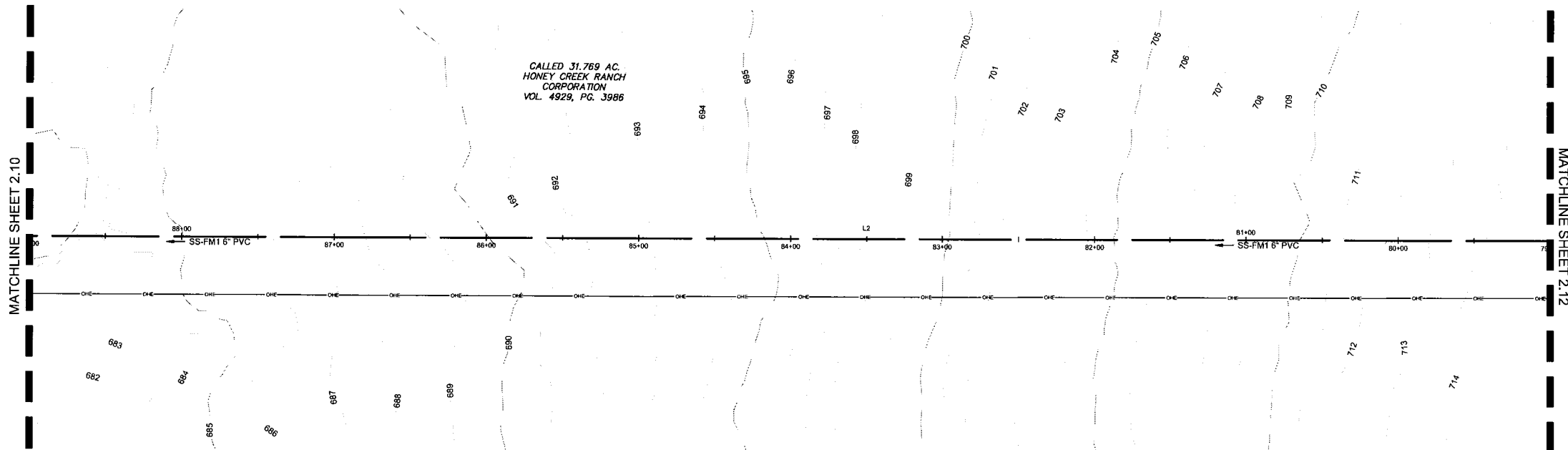
VENETIAN AT WESTON OFFSITE
SEWER PLAN & PROFILE - SS-FM1
(79+00-89+00)

WESTON, COLLIN COUNTY, TEXAS



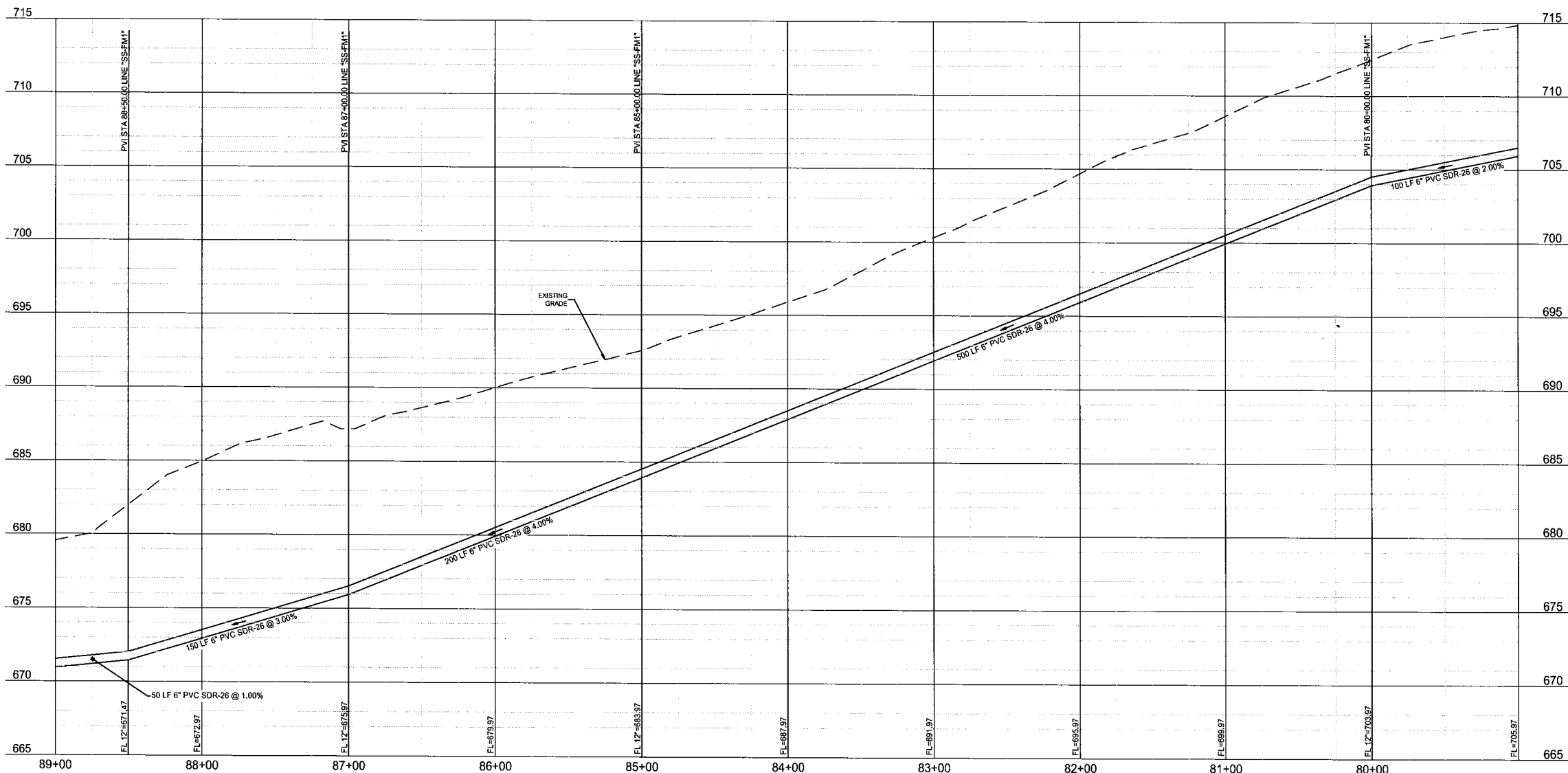
TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
15000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75033
FRISCO OFFICE PHONE (480) 213-1800

DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER 2020	LEN20001	2.11
REVIEWER: JWR			



LINE TABLE		
LINE	LENGTH	BEARING
L2	3291.45'	S89° 35' 08\"W

SS-FM1



PROPOSED SANITARY SEWER LINE
 PROPOSED SANITARY SEWER SERVICE
 PROPOSED PLUG
 EXISTING SANITARY SEWER LINE
 PROPOSED WATER LINE
 EXISTING WATER LINE
 PROPOSED STORM DRAIN

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JAY W. REISSIG	94971	12/16/202
TYPE OR PRINT NAME	FILE #	DATE

VENETIAN AT WESTON OFFSITE
SEWER PLAN & PROFILE - SS-FM
(69+00-79+00)



PELTON
LAND SOLUTIONS

TEXAS REGISTRATION ENGINEERING FIRM NO. 12207
11000 FRISCO STREET, SUITE 400, FRISCO, TEXAS 75040
FRISCO OFFICE PHONE: (409) 213-1800

DRAWN: MCM	DATE	PROJECT #	SHEET
DESIGNED: MCM	DECEMBER	LEN20001	2.12
REVIEWER: JWR	2020		



LINE TABLE		
LINE	LENGTH	BEARING
L2	3291.45'	S89° 35' 08"W
L3	1865.60'	S00° 39' 59"E

CAVIN
Vault

Drawing: J:\Utility\20001_...village at weston\Phase1\CMFAD\LEINZ0001-COS PROFILES 2
Last Saved by: Mmarrinez
Last Saved: 12/16/2020 8:01 AM
Plot Date/Time: 12/16/2020 9:46 AM