



Martinez Creek: Perez St to W. Huisache Ave
Solicitation Number: CO-00200
Job No.: 15-4802

ADDENDUM 2
September 27, 2018

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

MODIFICATIONS TO SPECIFICATIONS
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Building Wage Decision

Remove the Building Wage Decision in its entirety and replace with the revised version attached to this Addendum.

Supplemental Conditions

Page SS-1, remove Instructions to Respondents #24 in its entirety.

Special Conditions

Page SC-1, remove 1.0 in its entirety and replace with the following:

SC1. A Geotechnical Report has been developed for SAWS on this project and has been made available for Contractors for informational purposes only. SAWS will require the execution of a SAWS disclaimer form by the Contractor as a condition of and prior to the release of the report. To complete the disclaimer form and obtain the report, please go to the following link on SAWS website: http://www.saws.org/business_center/ContractSol/Drill.cfm?id=3296&View=Yes

Special Provisions to Technical Specifications

Page SPTS-3, Item 804 – Excavation, Trenching and Backfilling, add the following:

804.3 Excavation: Add the following additional paragraph:

4. Open Excavation Length: Open excavation areas shall be limited to 200 feet, and backfilled at the completion of each day.

MODIFICATIONS TO PLANS FOR CONSTRUCTION
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- Sheet G-4: Remove and replace Plan Sheet G-4 with the revised Plan Sheet G-4 attached to this Addendum. Sheet G-4 was revised to change the open excavation area limitation to 200 feet.
- Sheet P-22: Remove and replace Plan Sheet P-22 with the revised Plan Sheet P-22 attached to this Addendum. Sheet P-22 was revised to add the existing 4-inch gas line.
- Sheet P-23: Remove and replace Plan Sheet P-23 with the revised Plan Sheet P-23 attached to this Addendum. Sheet P-23 was revised to add the existing 2-inch gas line.
- Sheet P-26: Remove and replace Plan Sheet P-26 with the revised Plan Sheet P-26 attached to this Addendum. Sheet P-26 was revised to indicate approximate clearance between the existing 36-inch storm drain and the proposed 8-inch sanitary sewer line.
- Sheet P-29: Remove and replace Plan Sheet P-29 with the revised Plan Sheet P-29 attached to this Addendum. Sheet P-29 was revised to add the existing 4-inch and 12-inch gas lines.
- Sheet P-31: Remove and replace Plan Sheet P-31 with the revised Plan Sheet P-31 attached to this Addendum. Sheet P-31 was revised to add the existing 4-inch gas line.
- Sheet P-32: Remove and replace Plan Sheet P-32 with the revised Plan Sheet P-32 attached to this Addendum. Sheet P-32 was revised to add the existing 4-inch gas line.
- Sheet P-33: Remove and replace Plan Sheet P-33 with the revised Plan Sheet P-33 attached to this Addendum. Sheet P-33 was revised to add the existing 4-inch gas line.
- Sheet P-38: Remove and replace Plan Sheet P-38 with the revised Plan Sheet P-38 attached to this Addendum. Sheet P-38 was revised to add the existing 2-inch gas line.
- Sheet P-42: Remove and replace Plan Sheet P-42 with the revised Plan Sheet P-42 attached to this Addendum. Sheet P-42 was revised to add the existing 2-inch gas line.
- Sheet P-44A: Remove and replace Plan Sheet P-44A with the revised Plan Sheet P-44A attached to this Addendum. Sheet P-44A was revised to add the existing 4-inch gas line.

ATTACHMENTS

Attachments:

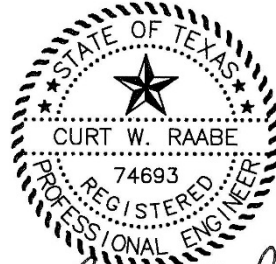
Building Wage Decision
Sheet G-4
Sheet P-22
Sheet P-23
Sheet P-26
Sheet P-29
Sheet P-31
Sheet P-32

Addendum 2
Martinez Creek: Perez St to W Huisache Ave
SAWS Job No. 15-4802
Solicitation No. CO-00200

Sheet P-33
Sheet P-38
Sheet P-42
Sheet P-44A

This Addendum, including these three (3) pages, is twenty-one (21) pages with attachments in its entirety.

CDS Muery F-1733



Curt W. Raabe
9/27/2018

September 27, 2018

Date

Signature

END OF ADDENDUM

General Decision Number: TX180280 09/14/2018 TX280

Superseded General Decision Number: TX20170280

State: Texas

Construction Type: Building

County: Bexar County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2018
1	01/12/2018
2	03/23/2018
3	04/20/2018
4	07/06/2018
5	08/03/2018
6	09/14/2018

ASBE0087-014 01/01/2018

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation).....	\$ 22.72	10.02

BOIL0074-003 01/01/2017

	Rates	Fringes
BOILERMAKER.....	\$ 28.00	22.35

ELEC0060-003 06/01/2016

	Rates	Fringes
ELECTRICIAN (Communication Technician Only).....	\$ 21.57	9%+4.65

 ELEC0060-004 06/01/2018

	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring).....	\$ 28.30	13%+5.05

 ELEV0081-001 01/01/2018

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 39.32	32.645+a+b

FOOTNOTES:

A. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked.

B. Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Friday after Thanksgiving Day; Christmas Day; and Veterans Day.

 ENGI0450-002 04/01/2014

	Rates	Fringes
POWER EQUIPMENT OPERATOR Cranes.....	\$ 34.85	9.85

 * IRON0066-013 09/01/2018

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 22.05	6.73

 * IRON0084-011 06/01/2018

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 23.77	7.12

 PLUM0142-009 07/01/2017

	Rates	Fringes
HVAC MECHANIC (HVAC Electrical Temperature Control Installation Only).....	\$ 30.25	11.80
HVAC MECHANIC (HVAC Unit Installation Only).....	\$ 30.25	11.80
PIPEFITTER (Including HVAC		

Pipe Installation).....	\$ 30.25	11.80
PLUMBER (Excludes HVAC Pipe Installation).....	\$ 30.25	11.80

SFTX0669-002 04/01/2017

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 29.03	15.84

SHEE0067-004 04/01/2018

	Rates	Fringes
Sheet metal worker Excludes HVAC Duct Installation.....	\$ 26.35	15.29
HVAC Duct Installation Only.	\$ 26.10	15.25

SUTX2014-006 07/21/2014

	Rates	Fringes
BRICKLAYER.....	\$ 22.15	0.00
CARPENTER (Acoustical Ceiling Installation Only).....	\$ 17.83	0.00
CARPENTER (Form Work Only).....	\$ 13.63	0.00
CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Hanging, Form Work, and Metal Stud Installation.....	\$ 16.86	4.17
CAULKER.....	\$ 15.00	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 22.27	5.30
DRYWALL FINISHER/TAPER.....	\$ 13.81	0.00
DRYWALL HANGER AND METAL STUD INSTALLER.....	\$ 15.18	0.00
ELECTRICIAN (Low Voltage Wiring Only).....	\$ 20.39	3.04
IRONWORKER, REINFORCING.....	\$ 12.27	0.00
LABORER: Common or General.....	\$ 10.75	0.00
LABORER: Mason Tender - Brick...	\$ 11.88	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.00	0.00

LABORER: Pipelayer.....	\$ 11.00	0.00
LABORER: Roof Tearoff.....	\$ 11.28	0.00
LABORER: Landscape and Irrigation.....	\$ 8.00	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 15.98	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 14.00	0.00
OPERATOR: Bulldozer.....	\$ 14.00	0.00
OPERATOR: Drill.....	\$ 14.50	0.00
OPERATOR: Forklift.....	\$ 12.50	0.00
OPERATOR: Grader/Blade.....	\$ 23.00	5.07
OPERATOR: Loader.....	\$ 12.79	0.00
OPERATOR: Mechanic.....	\$ 18.75	5.12
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 16.03	0.00
OPERATOR: Roller.....	\$ 12.00	0.00
PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping.....	\$ 13.07	0.00
ROOFER.....	\$ 12.00	0.00
TILE FINISHER.....	\$ 11.32	0.00
TILE SETTER.....	\$ 14.94	0.00
TRUCK DRIVER: Dump Truck.....	\$ 12.39	1.18
TRUCK DRIVER: Flatbed Truck.....	\$ 19.65	8.57
TRUCK DRIVER: Semi-Trailer Truck.....	\$ 12.50	0.00
TRUCK DRIVER: Water Truck.....	\$ 12.00	4.11

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave

for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

PROJECT GENERAL NOTES (CONT.)

**CITY OF SAN ANTONIO
RIGHT-OF-WAY ORDINANCE**

- THE CITY OF SAN ANTONIO (COSA) ADOPTED "RIGHT OF WAY MANAGEMENT REGULATIONS" EFFECTIVE MAY 1, 2001 TO MANAGE CONSTRUCTION, EXCAVATION, AND PLACEMENT OF UTILITIES WITHIN CITY RIGHT-OF-WAYS. AS PART OF THE ORDINANCE, THE COSA DEVELOPED THE "UTILITY EXCAVATION CRITERIA MANUAL" (UECM) TO PROVIDE POLICY AND TECHNICAL GUIDANCE FOR EXCAVATING AND BACKFILLING WITHIN CITY RIGHT-OF-WAYS.
- THE CONTRACTOR SHALL OBTAIN COPIES OF THESE DOCUMENTS AND SHALL EXECUTE HIS WORK IN ACCORDANCE WITH THE RULES, REGULATIONS, AND CRITERIA OUTLINED IN THE DOCUMENTS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER (IN WRITING) IF DISCREPANCIES BETWEEN THE DOCUMENTS AND THE PROJECT PLANS AND/OR SPECIFICATIONS ARE DISCOVERED.

MATERIALS TESTING

- MATERIALS TESTING FOR THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR TESTING WILL NOT BE PAID SEPARATELY BUT SHALL BE INCORPORATED INTO THE ITEMS TO WHICH IT PERTAINS. (NSPI)
- MATERIALS TESTING SHALL COMPLY WITH APPLICABLE REQUIREMENTS PER SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION, CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- FULL PAYMENT WILL NOT BE MADE UNTIL ALL TESTING IS COMPLETE AND APPROVED.

SUBSURFACE AND SOIL CONDITIONS

- THE ENGINEER HAS EMPLOYED AN INDEPENDENT GEOTECHNICAL ENGINEERING FIRM TO PERFORM A SUBSURFACE SOIL INVESTIGATION FOR THE SITE OF THIS PROJECT. THAT REPORT CAN BE VIEWED AT SAWS' PROJECT BID WEBSITE, AND IS PROVIDED FOR BIDDER'S GENERAL INFORMATION. CONTRACTOR SHALL PERFORM ANY ADDITIONAL GEOTECHNICAL INVESTIGATIONS NEEDED FOR PROPER PLANNING AND EXECUTION OF THE WORK AT NO ADDITIONAL COST TO SAWS.
- IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS, BIDDERS ARE ENCOURAGED TO VISIT THE SITE AND ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING. BIDDERS MAY, AT THEIR OWN EXPENSE, PERFORM THEIR OWN SUBSURFACE INVESTIGATIONS; HOWEVER, ALL SUCH INVESTIGATIONS MUST BE PERFORMED UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED IN ADVANCE BY SAWS.

GROUNDWATER

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY MEANS AND METHODS OF CONSTRUCTION SHOULD GROUNDWATER BE ENCOUNTERED. (NSPI)

MATERIALS STAGING AND LAYDOWN AREAS

- CONTRACTOR IS RESPONSIBLE FOR SECURING NEEDS MATERIALS STORAGE AND STAGING AREAS OFF-SITE, AND IS RESPONSIBLE FOR ALL RELATED SITE SECURITY SAFETY AND RESTORATION. (NSPI)

RECORDS

- THE CONTRACTOR SHALL MAINTAIN A NEAT AND ACCURATE "RED-LINE" MARKUP RECORD OF CONSTRUCTION FOR THE ENGINEER'S RECORDS THAT ARE UP TO DATE AND AVAILABLE FOR REVIEW AT ALL TIMES BY SAWS OR ENGINEER. THE CONTRACTOR SHALL PROVIDE ENGINEER WITH FULL SIZE REPRODUCIBLE MARKUPS THAT RECORD ALL CONSTRUCTION DEVIATING FROM THE PLANS.

AT&T

- THE CONTRACTOR SHALL CALL FOR LOCATES THROUGH THE "ONE CALL" UTILITY LOCATE SERVICE (1-800-344-8377) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION/ EXCAVATION WORK.

CPS ENERGY

- CALL CPS LOCATOR AT 353-2970 AT LEAST 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
- THE CONTRACTOR SHALL PROTECT CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND CPS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH CPS TO BRACE DISTRIBUTION POWER POLES. ANY POLES WITHIN 10 FEET OF CONSTRUCTION SHALL BE REVIEWED WITH CPS TO DETERMINE IF BRACING IS REQUIRED. (NSPI)

TRENCHLESS CONSTRUCTION

- THE CONTRACTOR SHALL SECURE ALL BORE AREAS AND RECEIVING PITS WITH SECURITY FENCING AND ALL PROPER SAFETY MEASURES.
- CONTRACTOR SHALL SUBMIT BORING PLAN TO SAWS INSPECTOR AND ENGINEER FOR REVIEW AND APPROVAL. BORE/ RECEIVING SHAFT LOCATIONS AND DIMENSIONS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE ADJUSTED AS NEEDED. (NSPI)

TRAFFIC CONTROL

- BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE CURRENT TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND ARE TO BE LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES. DURING THE PROGRESS OF WORK, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC. (NSPI)
- CONTRACTOR TO ESTABLISH AND MAINTAIN TRAFFIC BARRICADING AND CONTROL DEVICES ALONG THE ALIGNMENT IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN. (NSPI)

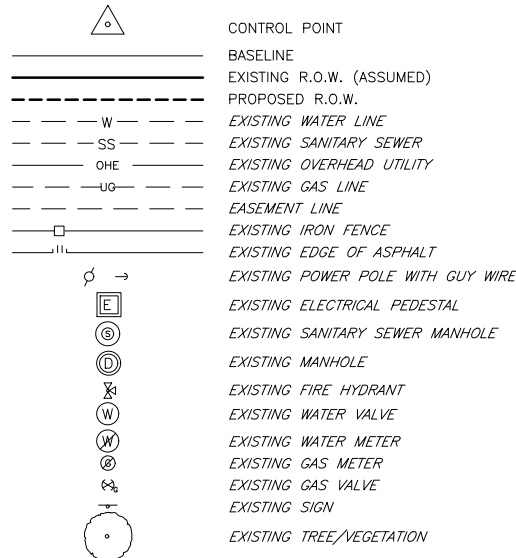
ROAD NOTES

- PRIOR TO BEGINNING ANY TRENCHING WITHIN ROADWAY PAVEMENT, CONTRACTOR SHALL PERFORM SURVEY CROSS SECTIONS OF EXISTING PAVED SURFACE AT 50-FT INTERVALS. EACH CROSS SECTION SHALL CONTAIN A SURVEYED ELEVATION AT THE EDGE OF PAVEMENT ON EACH SIDE OF THE ROAD, AND AT THE CENTERLINE OF THE ROAD. THE CONTRACTOR SHALL USE THESE ELEVATIONS TO CONSTRUCT THIS TYPICAL SECTION AT PRIOR ROAD ELEVATIONS. (NSPI)
- ROAD STRIPING SHALL BE INSTALLED TO MATCH EXISTING CONDITION. ALL STRIPING SHALL BE SUBSIDIARY TO HOT MIX ASPHALTIC PAVEMENT LINE ITEM. STRIPING SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL AND STATE REQUIREMENTS.
- CONTRACTOR SHALL SALVAGE RUBBER SPEED BUMP MATS OR REPLACE THEM AS NEEDED PER CITY OF SAN ANTONIO. CONTRACTOR SHALL RE-INSTALL MATS AT SAME LOCATION AFTER PAVEMENT INSTALLATION. (NSPI)

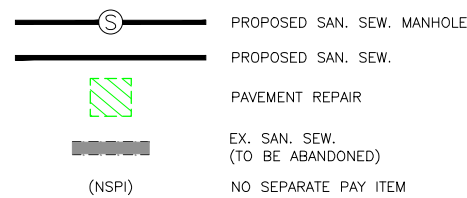
COSA GREENWAY TRAILS SYSTEM NOTES:

- FOR NEW SEWER CONSTRUCTION THAT IS TO OCCUR ADJACENT TO THE CITY OF SAN ANTONIO GREENWAY TRAILS SYSTEM AREAS, THE CONTRACTOR SHALL PLACE TEMPORARY CONSTRUCTION 6-FOOT CHAIN-LINK FENCE ON GROUND BETWEEN SAWS UTILITY CONSTRUCTION AND THE GREENWAY, SO THAT USERS OF THE GREENWAY WILL BE UNABLE TO ENTER CONSTRUCTION ZONE. IF CONSTRUCTION ACTIVITIES ARE REQUIRED THAT MAY IMPACT OR TEMPORARILY CLOSE THE GREENWAY, CONTRACTOR SHALL NOTIFY SAWS INSPECTIONS, COSA PARKS AND RECREATION, AND THE PROJECT DESIGN MANAGER AT LEAST 2 WEEKS IN ADVANCE OF INTENDED GREENWAY CLOSURE. CONTRACTOR SHALL PROVIDE TEMPORARY SAFE TRAIL BY-PASSES DURING ANY APPROVED TRAIL CLOSURES. CONTRACTOR SHALL ALSO INSTALL TEMPORARY WARNING SIGNS, AS DIRECTED BY THE CITY OF SAN ANTONIO, PRIOR AND DURING WORK. CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT GREENWAY PATRONS ARE KEPT SAFE. (NSPI)
- THE CONTRACTOR SHALL AVOID DAMAGE OF ANY KIND TO THE COSA GREENWAY TRAILS AND SHALL MINIMIZE ENCROACHMENT ON THE TRAILS DURING CONSTRUCTION. ANY DAMAGED TRAILS SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION. (NSPI)
- ANY TEMPORARY SURFACE OR PATCH ON THE TRAILS SHALL BE COARSE AND SLIP RESISTANT. NO TRAIL SHALL BE TEMPORARILY OR PERMANENTLY COVERED OR PATCHED WITH A SURFACE THAT IS OR COULD BECOME SLIPPERY (I.E. STEEL PLATES, PLASTIC SHEETING, ETC.)
- NOTIFY COSA PARKS AT 1-210-207-2721 A MINIMUM OF TWO WEEKS PRIOR TO STARTING CONSTRUCTION AND 48 HOURS PRIOR TO MOBILIZING EQUIPMENT.
- CONTRACTOR IS TO MAINTAIN UNRESTRICTED DRAINAGE OF THE PROJECT SITE AND ADJACENT AREAS DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ADVANCED WARNING ALONG COSA TRAIL IN BOTH DIRECTIONS NOTIFYING PEDESTRIANS OF CONSTRUCTION WORK ZONE AHEAD. ADVANCED WARNING AND SIGNAGE SHALL FOLLOW CURRENT MUTCD DESIGN GUIDELINES FOR TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL USE FLAGGERS AT ALL TIMES WHILE CONSTRUCTION ACTIVITIES ARE NEAR AND/OR CROSSING COSA PARK TRAILS AS AN ADDITIONAL MEANS OF PROTECTING THE PUBLIC.
- BETWEEN FREDERICKSBURG AND CINCINNATI ON EAST BANK, TRAILS ARE TO REMAIN OPEN AT TIMES WHEN CONSTRUCTION ISNT PRESENT AT THIS LOCATION.
- THE CONTRACTOR SHALL NOTIFY COSA PARKS OF ANY TRAIL CLOSURES AND THEIR DURATION.
- THE CONTRACTOR SHALL SUPPLY TRAIL CLOSURE SIGNS APPROVED BY COSA DURING ANY TRAIL CLOSURE. (NSPI)
- SHOULD CROSSING THE TRAILS BE NECESSARY, THE CONTRACTOR SHALL PROTECT THE TRAIL WITH CRANE MAT OR OTHER APPROVED METHODS. (NSPI)
- ANY DAMAGED TRAIL SHALL BE REPLACED IN TEN FOOT SEGMENTS (SCORE JOINT TO SCORE JOINT FOR CONCRETE TRAILS) AT THE CONTRACTOR'S EXPENSE.
- TRAIL, VEGETATION AND GRADING SHALL BE RETURNED TO AS GOOD OR BETTER CONDITION. (NSPI)

LEGEND



SANITARY SEWER LEGEND & ABBREVIATIONS



WORK SUMMARY AND SEQUENCE

THE WORK INCLUDES CONSTRUCTION OF A NEW APPROXIMATELY 10,300LF SEWER MAIN ALONG MARTINEZ CREEK FROM ABOUT PEREZ ST. UPSTREAM TO ABOUT W.HUISACHE AVE., ALONG WITH ASSOCIATED CONNECTING SIDE SEWERS, MANHOLES AND STRUCTURES. THE CONTRACTOR MAY ELECT TO CONSTRUCT THE WORK IN TWO SIMULTANEOUS AREAS TO MEET THE PROJECT SCHEDULE, WITH THE FOLLOWING WORK SEQUENCE PRESENTED TO MEET THESE GOALS. THE CONTRACTOR IS RESPONSIBLE FOR DEFINING ALL CONSTRUCTION MEANS AND METHODS AND MAY MODIFY THIS SEQUENCE AS DESIRED TO MEET THE CONTRACT REQUIREMENTS.

SEGMENT 1 - 54-INCH MAIN, PEREZ TO YALE

- COMPLETE RELOCATION OF THE EXISTING FIBER OPTIC LINE BETWEEN- PEREZ AND RIVAS ST.
- CONSTRUCT THE NEW 12-INCH WEST BANK SEWER LINE FROM CAMADA UPSTREAM TO DELGADO, CONNECTING CONTRIBUTING WESTERN SIDE SEWERS AS CONSTRUCTION PROCEEDS UPSTREAM. IMPLEMENT TRAFFIC CONTROL, DETOURING AND PAVEMENT REPAIRS AT DELGADO AS NEEDED TO COMPLETE THE WORK. COMPLETE ACCEPTANCE TESTING OF THE NEW 12-INCH LINE AS IT IS CONSTRUCTED UPSTREAM, AND COMPLETE DEFLECTION (MANDREL) TESTING 30 DAYS AFTER INSTALLATION AND ACCEPTANCE INTO SERVICE.
- INSTALL TEMPORARY FLOW BY-PASS SYSTEM BETWEEN DELGADO AND PEREZ INCLUDING THE TEMPORARY FLOW DIVERSION STRUCTURES, ALLOWING THE EXISTING 33" AND 36" MAINS IN THIS AREA TO BE REMOVED FROM SERVICE, EXCEPT FOR MINOR FLOW FROM THE CONTRIBUTING EASTERN SIDE SEWERS. TEMPORARILY EXTEND EXISTING EASTERN SIDE SEWERS TO THE INBOUND 36" MAIN, ALLOWING THE OUTBOUND (EASTERNMOST) 33" MAIN TO BE COMPLETELY REMOVED FROM SERVICE. PARTIALLY DEMOLISH THE 33" LINE AS REQUIRED TO COMPLETE THESE TEMPORARY EXTENSIONS.
- CONSTRUCT THE NEW 54-INCH MAIN ALONG THE EXISTING 33" ALIGNMENT FROM PEREZ UPSTREAM TO DELGADO, CONNECTING THE EASTERN SIDE SEWERS AS CONSTRUCTION PROCEEDS UPSTREAM. COMPLETE ACCEPTANCE TESTING ON EACH NEW MAIN SEGMENT AS SIDE SEWER CONNECTIONS ARE COMPLETED, COMPLETING DEFLECTION TESTING (GAUGE STICK OR COMPARABLE METHOD) AFTER 30 DAYS ALLOWING THE NEW MAIN TO BE ACCEPTED INTO SERVICE AS CONSTRUCTION PROCEEDS UPSTREAM. CONDUCT SEPARATE ACCEPTANCE TESTING, INCLUDING 30-DAY DEFLECTION (MANDREL) TESTING ON NEW EASTERN SIDE SEWER EXTENSIONS AND MANHOLES.
- TRANSFER SYSTEM FLOW TO THE NEW 54-INCH MAIN AT DELGADO VIA THE TEMPORARY 48-INCH CONNECTION LINE, ALLOWING THE TEMPORARY FLOW BY-PASS SYSTEM TO BE REMOVED. INSTALL TEMPORARY BULKHEADS OR PLUGS AND VENTILATION AS NEEDED TO ALLOW SAFE CONSTRUCTION AS INSTALLATION PROCEEDS, AND TO PREVENT SPILLAGE OR RAINWATER ENTRY.
- CONSTRUCT THE NEW 54-INCH MAIN UPSTREAM FROM DELGADO TO LOMBRANO, CONNECTING CONTRIBUTING SIDE SEWERS FROM THE EAST AND WEST AS CONSTRUCTION PROCEEDS UPSTREAM. COMPLETE ACCEPTANCE TESTING ON EACH NEW MAIN SEGMENT AS SIDE SEWER CONNECTIONS ARE COMPLETED. COMPLETE DEFLECTION TESTING AFTER 30 DAYS ALLOWING THE NEW MAIN TO BE ACCEPTING INTO SERVICE AS CONSTRUCTION PROCEEDS UPSTREAM. CONDUCT SEPARATE ACCEPTANCE TESTING, INCLUDING 30-DAY DEFLECTION (MANDREL) TESTING ON NEW SIDE SEWER EXTENSIONS AND MANHOLES. THE EXISTING RCP SEWER MAINS ARE SHALLOW AND POTENTIALLY IN POOR CONDITION. CONTRACTOR SHALL PROTECT EXISTING SEWER MAINS FROM DAMAGE DURING CONSTRUCTION OF NEW FRP MAIN AND SIDE SEWERS. INSTALL TEMPORARY BULKHEADS OR PLUGS AND VENTILATION AS NEEDED TO ALLOW SAFE CONSTRUCTION AS INSTALLATION PROCEEDS, AND TO PREVENT SPILLAGE OR RAINWATER ENTRY NEW SIDE SEWERS CONFLICTING WITH EXISTING RCP MAINS CAN BE CONNECTED ONCE UPSTREAM FLOWS HAVE BEEN TRANSFERRED TO THE NEW 54"/48" FRP.
- CONSTRUCT THE NEW TEMPORARY FLOW JUNCTION STRUCTURE AT LOMBRANO, ALLOWING THE EXISTING 33" LINE TO BE REMOVED FROM SERVICE DOWNSTREAM OF THIS DIVERSION POINT, WITH FLOW TRANSFERRED TO THE NEW 54-INCH LINE. PROVIDE LOW-FLOW BY-PASS PUMPING OF THE 33" LINE AROUND THE STRUCTURE IF NEEDED TO COMPLETE ASSOCIATED DEMOLITION AND STRUCTURAL COMPLETION. (NSPI). REPEAT SAME TEMPORARY FLOW DIVERSION CONSTRUCTION AT CULEBRA. (NSPI)
- CONSTRUCT THE NEW 54-INCH MAIN UPSTREAM FROM LOMBRANO TO PAST TINER, CONNECTING CONTRIBUTING SIDE SEWERS FROM THE EAST AND WEST AS CONSTRUCTION PROCEEDS UPSTREAM. COMPLETE ACCEPTANCE TESTING ON EACH NEW MAIN SEGMENT AS SIDE SEWER CONNECTIONS ARE COMPLETED. COMPLETE DEFLECTION TESTING AFTER 30 DAYS ALLOWING THE NEW MAIN TO BE ACCEPTING INTO SERVICE AS CONSTRUCTION PROCEEDS UPSTREAM. CONDUCT SEPARATE ACCEPTANCE TESTING, INCLUDING 30-DAY DEFLECTION (MANDREL) TESTING ON NEW SIDE SEWER EXTENSIONS AND MANHOLES.
- ABANDON THE EXISTING SEWER MAINS IN-PLACE BY GROUT FILLING, CRUSHING, EXCAVATION AND REMOVAL, OR OPEN-ABANDONMENT AS SHOWN ON THE DRAWINGS. DEMOLISH EXISTING ABANDONED MANHOLES AND TEMPORARY STRUCTURES TO 2 FEET BELOW GRADE AND BACKFILL, AND PLUG OR CAPS ABANDONED SIDE SEWERS AS SHOWN.
- COMPLETE SITE RESTORATION.
- OPEN EXCAVATION AREAS SHALL BE LIMITED TO 200 FEET, AND BACKFILLED AT THE COMPLETION OF EACH DAY.
- A TEMPORARY CAP SHALL BE SECURED ON THE UPSTREAM END OF THE NEW MAIN AND ON ANY OPEN SIDE SEWER CONNECTIONS AT THE COMPLETION OF EACH DAY'S WORK TO PREVENT WATER ENTRY IN THE EVENT OF A STORM EVENT.

SEGMENT 2 - 48-INCH MAIN, YALE TO W.HUISACHE

- CONSTRUCT THE NEW 48-INCH MAIN FROM YALE UPSTREAM TO W.HUSACHE, WHILE KEEPING THE EXISTING 33" AND 24" MAINS IN SERVICE UNTIL THE DOWNSTREAM 54-INCH NEW MAIN IS COMPLETED TO YALE TO ACCEPT SYSTEM FLOW. PROVIDE TEMPORARY SUPPORT BELOW EXISTING MAINS AS NEEDED WHERE THE NEW 48-INCH MAIN PASSES BELOW. COMPLETE ACCEPTANCE TESTING ON EACH NEW MAIN SEGMENT AS CONSTRUCTION PROCEEDS UPSTREAM. COMPLETE DEFLECTION TESTING AFTER 30 DAYS ALLOWING THE NEW MAIN TO BE ACCEPTING INTO SERVICE AS SIDE SEWER CONNECTIONS ARE MADE ONCE THE DOWNSTREAM 54-INCH NEW MAIN IS COMPLETED TO ACCEPT FLOW. THE EXISTING RCP SEWER MAINS ARE SHALLOW AND POTENTIALLY IN POOR CONDITION. CONTRACTOR SHALL PROTECT EXISTING SEWER MAINS FROM DAMAGE DURING CONSTRUCTION OF NEW FRP MAIN AND SIDE SEWERS. INSTALL TEMPORARY BULKHEADS OR PLUGS AND VENTILATION AS NEEDED TO ALLOW SAFE CONSTRUCTION AS INSTALLATION PROCEEDS, AND TO PREVENT SPILLAGE OR RAINWATER ENTRY. NEW SIDE SEWER CONFLICTING WITH EXISTING RCP MAINS CAN BE CONNECTED ONCE UPSTREAM FLOWS HAVE BEEN TRANSFERRED TO THE NEW 54"/48" FRP MAIN.
- CONNECT CONTRIBUTING SIDE SEWERS ONCE THE DOWNSTREAM 54-INCH NEW MAIN HAS BEEN COMPLETED TO YALE TO ACCEPT SYSTEM FLOW. CONDUCT SEPARATE ACCEPTANCE TESTING, INCLUDING 30-DAY DEFLECTION (MANDREL) TESTING ON NEW SIDE SEWER EXTENSIONS AND MANHOLES.
- CONSTRUCT THE NEW UPSTREAM FLOW JUNCTION STRUCTURE AT W.HUISACHE, TRANSFERRING ALL SYSTEM FLOW TO THE NEW 48-INCH MAIN. PROVIDE LOW-FLOW BY-PASS PUMPING OF THE 33" LINE AROUND THE STRUCTURE IF NEEDED TO COMPLETE DEMOLITION AND STRUCTURAL COMPLETION. (NSPI)
- ABANDON THE EXISTING SEWER MAINS IN-PLACEBY GROUT FILLING, CRUSHING EXCAVATION AND REMOVAL OR OPEN-ABANDONMENT AS SHOWN ON THE DRAWINGS. DEMOLISH EXISTING ABANDONED MANHOLES TO 2 FEET BELOW GRADE AND BACKFILL, AND PLUG OR CAP ABANDONED SIDE SEWERS AS SHOWN.
- COMPLETE SITE RESTORATION.
- OPEN EXCAVATION AREAS SHALL BE LIMITED TO 200 FEET, AND BACKFILLED AT THE COMPLETION OF EACH DAY.
- A TEMPORARY CAP SHALL BE SECURED ON THE UPSTREAM END OF THE NEW MAIN AND ON ANY OPEN SIDE SEWER CONNECTIONS AT THE COMPLETION OF EACH DAY'S WORK TO PREVENT WATER ENTRY IN THE EVENT OF A STORM EVENT.

EXCAVATION AND SPECIAL WASTE SOIL MANAGEMENT

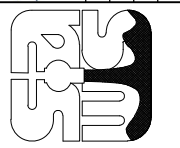
SURFICIAL SOILS ALONG THE WORK ROUTE IN SEVERAL AREAS CONTAIN NON-HAZARDOUS CLASS 2 SPECIAL WASTE ACTION LEVELS OF VARIOUS METAL CONTAMINANTS, INCLUDING; ARSENIC, CHROMIUM, BARIUM AND LEAD. SPECIAL HANDLING AND DISPOSAL OF THESE SOILS WILL BE REQUIRED IN ACCORDANCE WITH SP-1000, "CLASS 2 SPECIAL WASTE MANAGEMENT & DISPOSAL".

TRENCH BACKFILLING IN AREAS OF DEEP CLASS 2 SOILS REMOVAL WILL REQUIRE SECONDARY BACKFILL MATERIAL FROM ELSEWHERE. THE CONTRACTOR MAY USE SUITABLE SECONDARY BACKFILL MATERIAL FROM ON-SITE PROJECT EXCAVATIONS, OR MAY IMPORT SUITABLE SECONDARY BACKFILL MATERIAL FROM OFF-SITE. ANY SECONDARY BACKFILL MATERIAL FROM OFF-SITE SHALL MEET THE REQUIREMENTS OF ITEM 804, AND SHALL BE SUITABLE FOR USE IN AN ACTIVE FLOODWAY. ERODABLE SOILS SHALL NOT BE ACCEPTABLE AS IMPORTED SECONDARY BACKFILL, INCLUDING: SAND, LOAM, SANDY LOAM, OR POROUS GRAVEL. IMPORTED SECONDARY BACKFILL SHALL BE SIMILAR IN NATURE TO NATIVE STREAMBED AND SIDE SLOPE MATERIALS, INCLUDING: MARL, CLAY, AND CHALK ROCK. NO SEPARATE PAYMENT WILL BE MADE FOR ANY IMPORTED SECONDARY BACKFILL MATERIALS.

THE VOLUMETRIC QUANTITIES (XXX CY) SHOWN ON THE SOIL EXCAVATION MANAGEMENT PLAN SHEETS REPRESENT THE TRENCH EARTHWORK APPROXIMATE RUNNING BALANCE, BEGINNING AT THE DOWNSTREAM (PEREZ) END AND PROCEEDING UPSTREAM. THE RUNNING BALANCE INCLUDES TOTAL TRENCH EXCAVATION, MINUS CLASS-2 SPECIAL WASTE, MINUS PIPE ZONE, MINUS FLOWABLE FILL. ASSUMED TRENCH WIDTHS ARE: 8-FT FOR THE 54"/48" FRP MAIN; 4-FT FOR THE 18" TO 24" SIDE SEWERS; AND 3-FT FOR THE 8" TO 15" SIDE SEWERS. NO SWELL FACTOR IS APPLIED. NEGATIVE QUANTITIES INDICATE AN IMPORT (DEFICIT) BACKFILL CONDITION. POSITIVE QUANTITIES INDICATE A SURPLUS (SPOIL) BACKFILL CONDITION. THE APPROXIMATE RUNNING BALANCE INDICATES THAT IMPORT BACKFILL WILL BE REQUIRED FROM PEREZ TO ABOUT STATION 62+00, THEN SURPLUS (SPOIL) MATERIALS WILL BE GENERATED, WITH AN UPSTREAM FINAL SURPLUS OF ABOUT 6,600CY WITHOUT ANY SWELL FACTOR APPLIED. THIS INFORMATION IS PROVIDED FOR THE CONTRACTOR'S GENERAL INFORMATION ONLY.

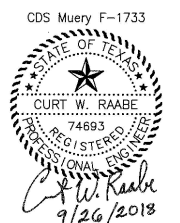
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DATE	9/26/18	NO.	2	REVISIONS
BY	MR	NO.	115143-GN	ADDENDUM No. 2 - REVISED TO 200'
DESIGN BY: CWR	DATE: SEPTEMBER 2018			
DRAWN BY: CDS	APPROVED BY:			
CHECKED BY: MR	CDS JOB NO.: 115143			
REVIEWED BY: KR	DWG NAME: 115143-GN			



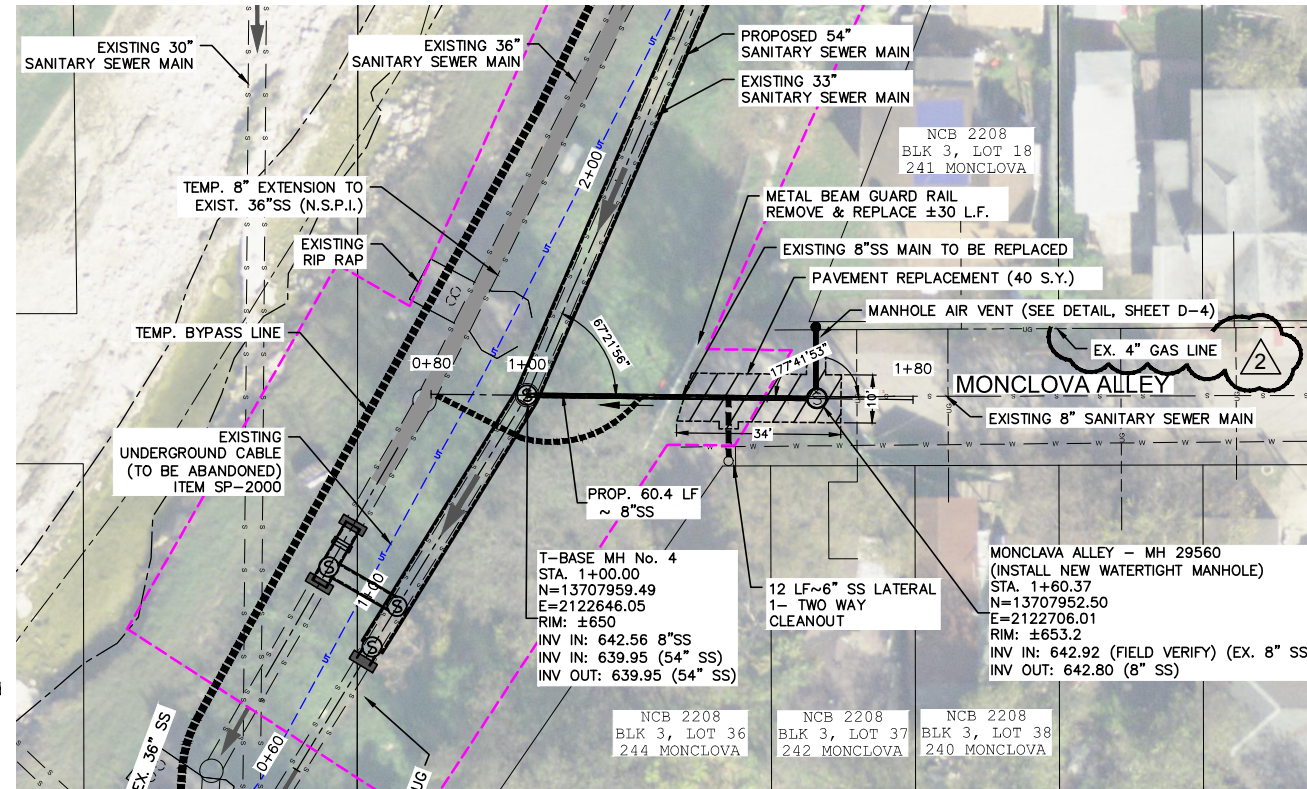
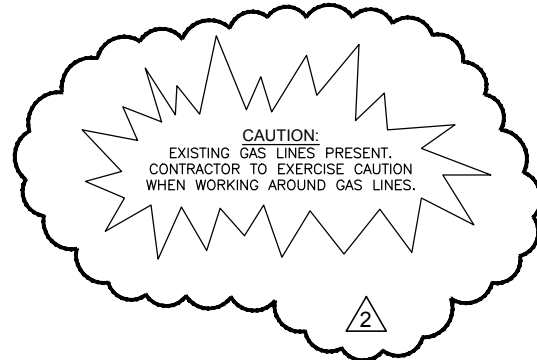
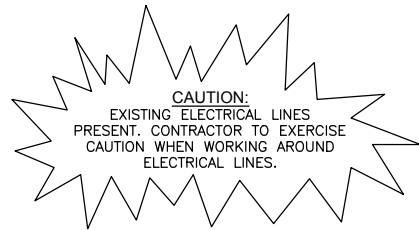
MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
GENERAL NOTES
(SHEET 2 OF 2)



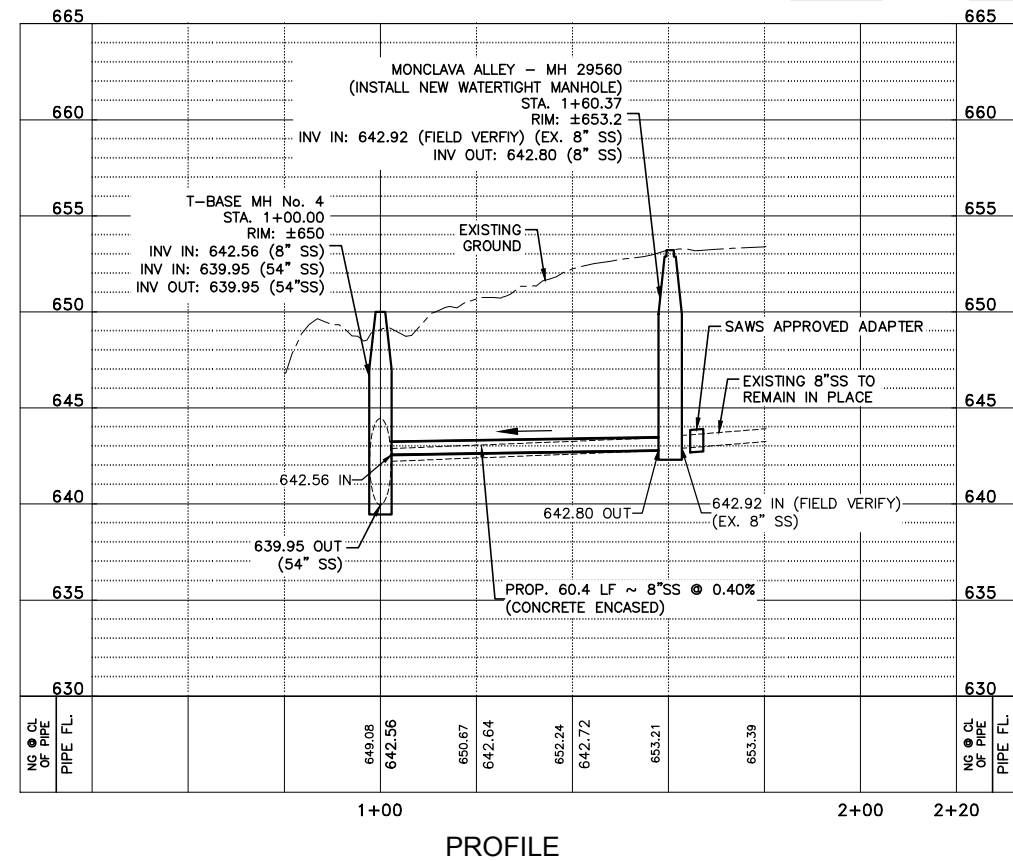
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

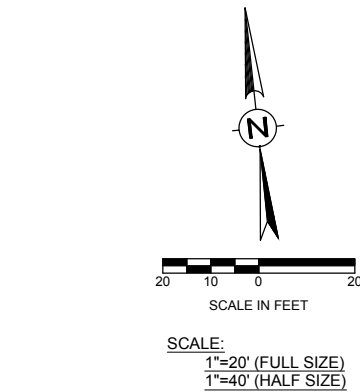


PLAN

MONCLOVA EAST



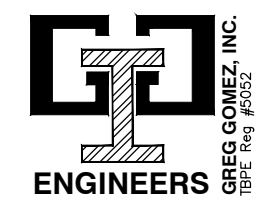
PROFILE



- LEGEND**
- EXISTING R.O.W. (ASSUMED)
 - - - PROPOSED R.O.W.
 - - - W EXISTING WATER LINE
 - - - SS EXISTING SANITARY SEWER
 - - - OHE EXISTING OVERHEAD UTILITY
 - - - UG EXISTING GAS LINE
 - - - EASEMENT LINE
 - - - EXISTING IRON FENCE
 - ⊕ EXISTING POWER POLE WITH GUY WIRE
 - ⊞ EXISTING ELECTRICAL PEDESTAL
 - ⊙ EXISTING SANITARY SEWER MANHOLE
 - ⊙ EXISTING MANHOLE
 - ⊕ EXISTING FIRE HYDRANT
 - ⊕ EXISTING WATER VALVE
 - ⊕ EXISTING WATER METER
 - ⊕ EXISTING GAS METER
 - ⊕ EXISTING GAS VALVE
 - ⊕ EXISTING SIGN

- LEGEND & ABBREVIATIONS**
- ⊙ PROPOSED SAN. SEW. MANHOLE
 - PROPOSED SAN. SEW.
 - - - PROPOSED SAN. SEW. LATERAL
 - ▨ PAVEMENT REPAIR
 - ⊞ (NSPI) EX. SAN. SEW. (TO BE ABANDONED)
 - OHWM ORDINARY HIGH WATER MARK
 - ⊞ JOINT USE AGREEMENT

Item No.	Description	Unit	Quantity
203.1	TACK COAT (COSA SPEC)	GAL	4.00
205.4	HMAC PVMINT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	40.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	40.00
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	30.00
510	TIMBER GUARD POSTS (COSA SPEC)	EA	6.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	67.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	60.40
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	60.40
853A	4" FIBERGLASS SANITARY SEWER MANHOLE (0-6')	EA	1.00
853	4' EXTRA DEPTH MANHOLE (>6')	VF	4.40
854.1	SANITARY SEWER LATERAL (SDR26-2241, 160 PSI)	LF	20.00
854.2	TWO-WAY CLEAN OUTS	EA	1.00
858	CONCRETE ENCASMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	20.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	60.40



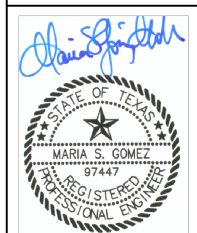
CDS muary
ENGINEERS • SURVEYORS

DESIGN BY: CWR DATE: SEPTEMBER 2018
 DRAWN BY: CDS APPROVED BY:
 CHECKED BY: MR CDS JOB NO.: 115143
 REVIEWED BY: KR DWG NAME: 115143-SIDE-P22

NO. 2 DATE 9/25/18 REVISIONS
 ADDENDUM No. 2

MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

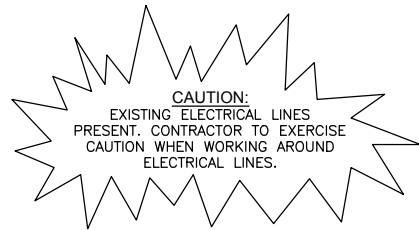
SAWS Job No. 15-4802
 MONCLOVA EAST



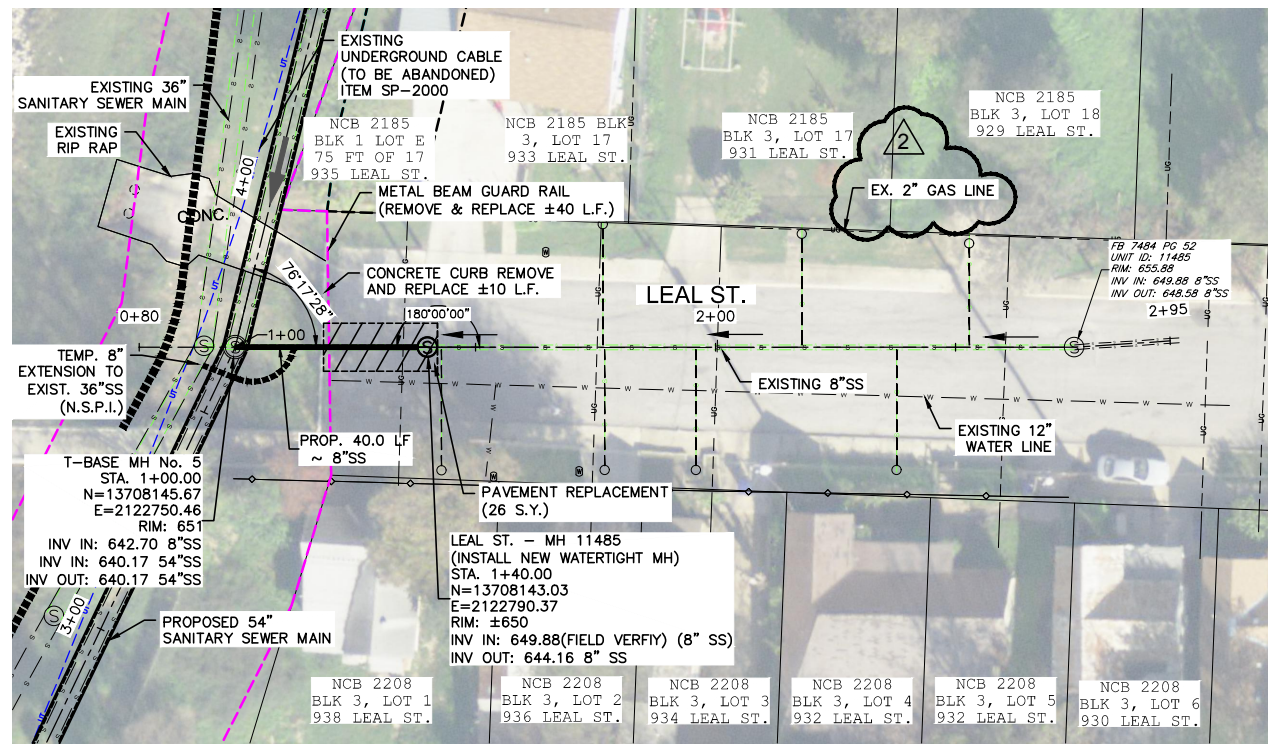
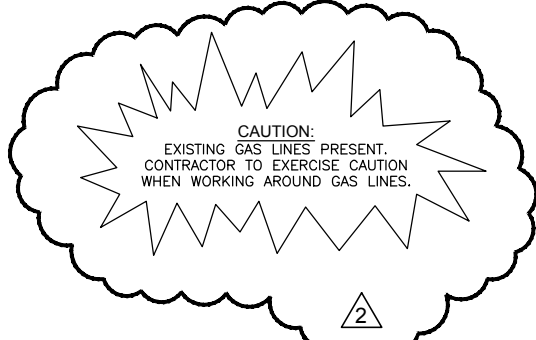
DATE: 9/26/2018
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TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

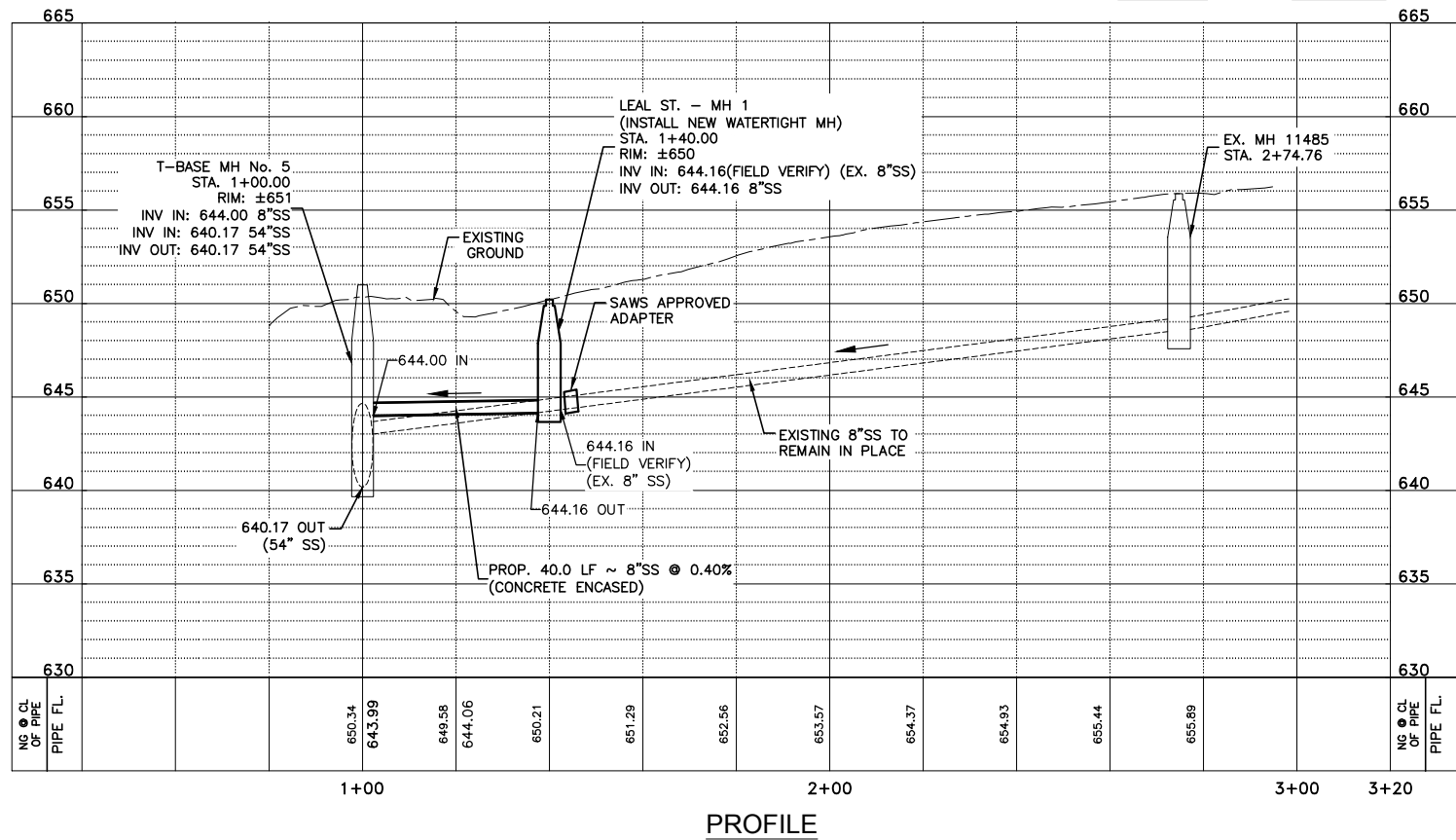


Item No.	Description	Unit	Quantity
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	10.00
203.1	TACK COAT (COSA SPEC)	GAL	2.60
205.4	HMAC PVMNT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	26.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	26.00
500.1	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF	10.00
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	40.00
510	TIMBER GUARD POSTS (COSA SPEC)	EA	8.00
520	HYDRMULCH SEEDING (COSA SPEC)	SY	33.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	40.00
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	40.00
853A	4" FIBERGLASS SANITARY SEWER MANHOLE (0-6')	EA	1.00
858	CONCRETE ENCASEMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	14.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	40.00

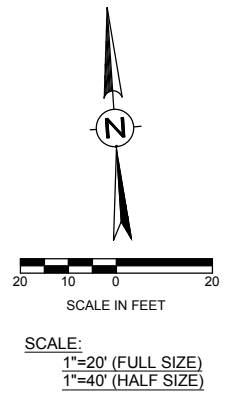


PLAN

LEAL EAST

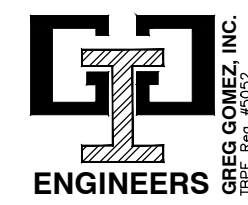


PROFILE



- LEGEND**
- EXISTING R.O.W. (ASSUMED)
 - - - PROPOSED R.O.W.
 - W — EXISTING WATER LINE
 - SS — EXISTING SANITARY SEWER
 - OHE — EXISTING OVERHEAD UTILITY
 - UG — EXISTING GAS LINE
 - - - EASEMENT LINE
 - EXISTING IRON FENCE
 - ⊕ — EXISTING POWER POLE WITH GUY WIRE
 - ⊕ — EXISTING ELECTRICAL PEDESTAL
 - ⊕ — EXISTING SANITARY SEWER MANHOLE
 - ⊕ — EXISTING MANHOLE
 - ⊕ — EXISTING FIRE HYDRANT
 - ⊕ — EXISTING WATER VALVE
 - ⊕ — EXISTING WATER METER
 - ⊕ — EXISTING GAS METER
 - ⊕ — EXISTING GAS VALVE
 - ⊕ — EXISTING SIGN
- LEGEND & ABBREVIATIONS**
- ⊕ — PROPOSED SAN. SEW. MANHOLE
 - PROPOSED SAN. SEW.
 - - - PROPOSED SAN. SEW. LATERAL
 - ▨ — PAVEMENT REPAIR
 - - - EX. SAN. SEW. (TO BE ABANDONED)
 - (NSPI) — NO SEPARATE PAY ITEM
 - OHWM — ORDINARY HIGH WATER MARK
 - — JOINT USE AGREEMENT

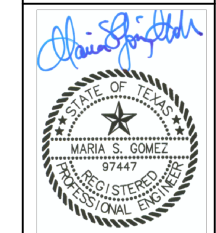
NOTE 1:
PRIOR TO CONSTRUCTION OF THE PROPOSED 8" SANITARY SEWER MAIN, CONTRACTOR SHALL FIELD VERIFY DEPTH OF CUSTOMER SERVICE LATERAL AT THE ROW LINE TO DETERMINE IF SERVICE LATERALS CAN BE TIED IN TO NEW 8" SANITARY SEWER AT NEW RAISED GRADE.



DESIGN BY: CWR	DATE: SEPTEMBER 2018
DRAWN BY: CDS	APPROVED BY:
CHECKED BY: MR	CDS JOB NO.: 115143
REVIEWED BY: KR	DWG NAME: 115143-SIDE-P23
	NO. 2
	DATE 9/25/18
	REVISIONS

MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
LEAL EAST



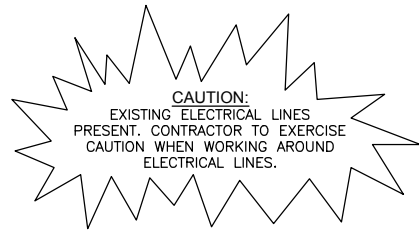
DATE: 9/26/2018

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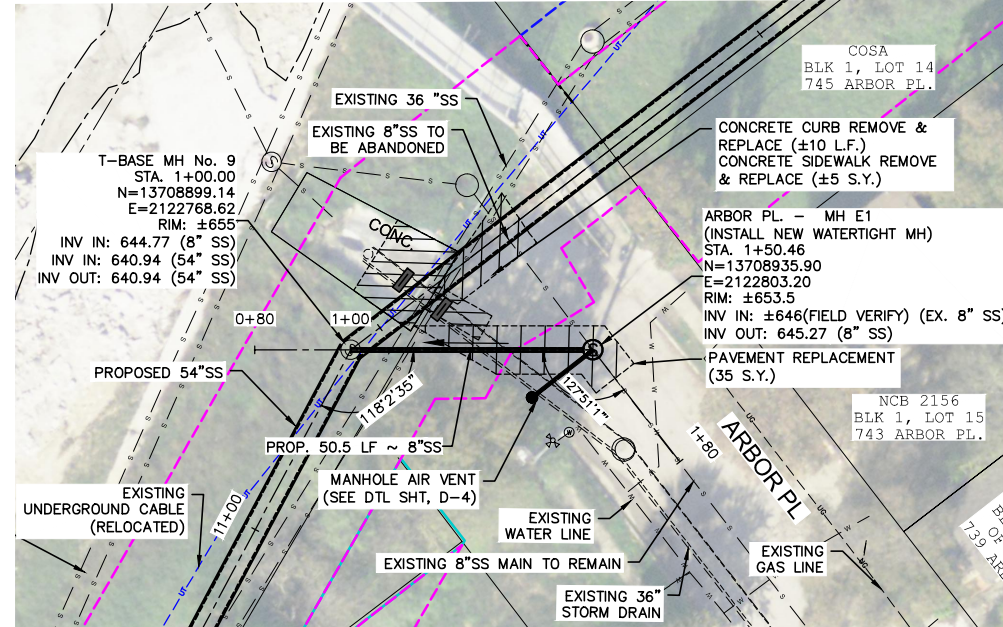
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TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

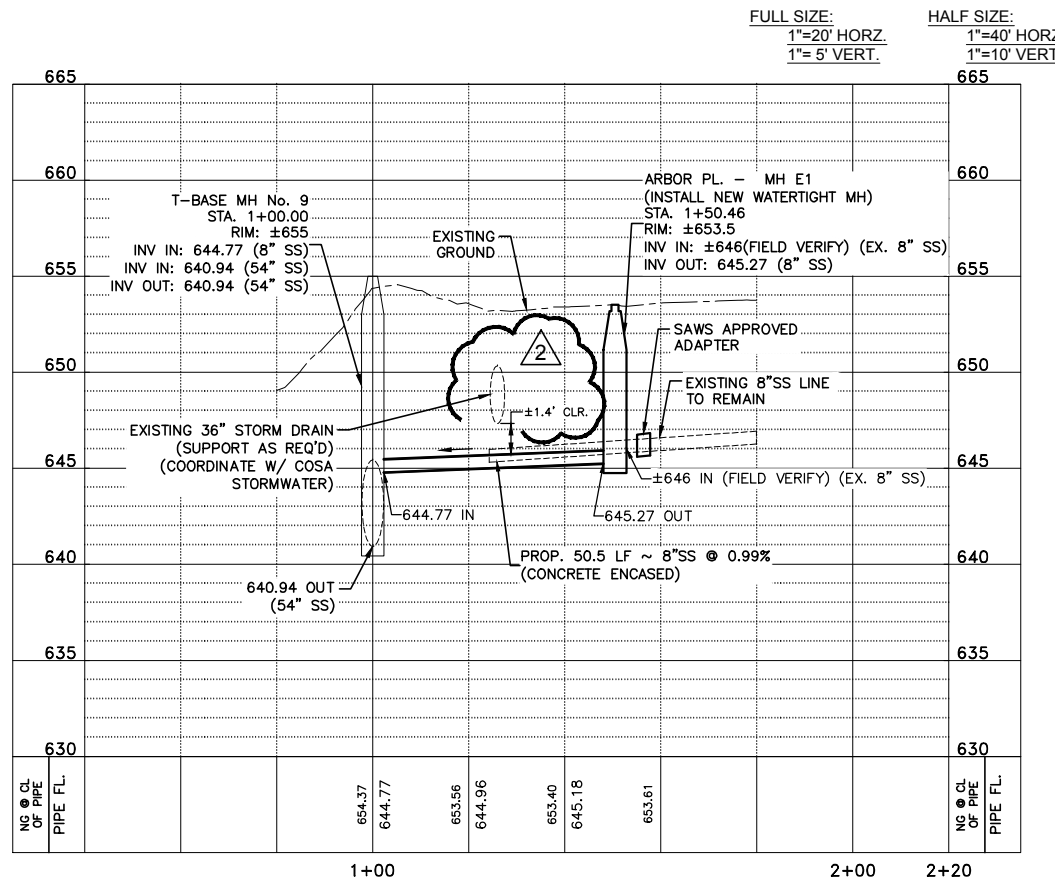


Item No.	Description	Unit	Quantity
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	10.00
103.3	REMOVE CONCRETE SIDEWALK AND DRIVEWAY (COSA SPEC)	SF	45.00
203.1	TACK COAT (COSA SPEC)	GAL	3.50
205.4	HMAC PYMNT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
500.1	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF	10.00
502.1	CONCRETE SIDEWALKS-CONVENTIONALLY FORMED (COSA SPEC)	SY	5.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	45.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	50.50
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	50.50
853A	4' FIBERGLASS SANITARY SEWER MANHOLE (0-6')	EA	1.00
853	4' EXTRA DEPTH MANHOLE (>6')	VF	2.24
858	CONCRETE ENCASUREMENT (5-YR FLDPN) (FLOWABLE FILL)	CY	17.00
862.1	ABANDONMENT OF SANITARY SEWER MAIN & MANHOLES (IN-PLACE)	LF	80.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	50.50

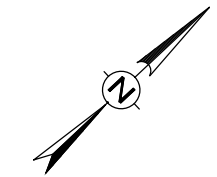


PLAN

ARBOR EAST



PROFILE



SCALE IN FEET
20 10 0 10 20

SCALE:
1"=20' (FULL SIZE)
1"=40' (HALF SIZE)

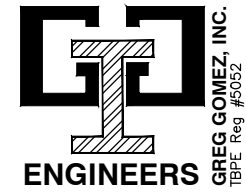
LEGEND

- EXISTING R.O.W. (ASSUMED)
- PROPOSED R.O.W.
- W --- EXISTING WATER LINE
- SS --- EXISTING SANITARY SEWER
- OHE --- EXISTING OVERHEAD UTILITY
- UG --- EXISTING GAS LINE
- EASEMENT LINE
- EXISTING IRON FENCE
- EXISTING POWER POLE WITH GUY WIRE
- EXISTING ELECTRICAL PEDESTAL
- EXISTING SANITARY SEWER MANHOLE
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING GAS METER
- EXISTING GAS VALVE
- EXISTING SIGN

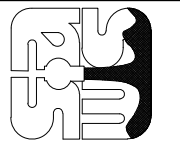
LEGEND & ABBREVIATIONS

- (S) --- PROPOSED SAN. SEW. MANHOLE
- PROPOSED SAN. SEW.
- PROPOSED SAN. SEW. LATERAL
- PAVEMENT REPAIR
- EX. SAN. SEW. (TO BE ABANDONED)
- (NSPI) NO SEPARATE PAY ITEM
- OHWM ORDINARY HIGH WATER MARK
- JOINT USE AGREEMENT

CAUTION:
PROTECT WATER & GAS LINES DURING SEWER MAIN AND SEWER LATERALS INSTALLATION, TYP.

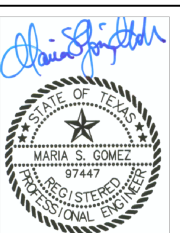


DESIGN BY: CWR	DATE: SEPTEMBER 2018	NO.	BY:
DRAWN BY: CDS	APPROVED BY:	2	REVISIONS
CHECKED BY: MR	CDS JOB NO.: 115143	9/25/18	ADDENDUM No. 2
REVIEWED BY: KR	DWG NAME: 115143-SIDE-P26		



MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
ARBOR EAST



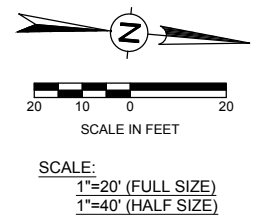
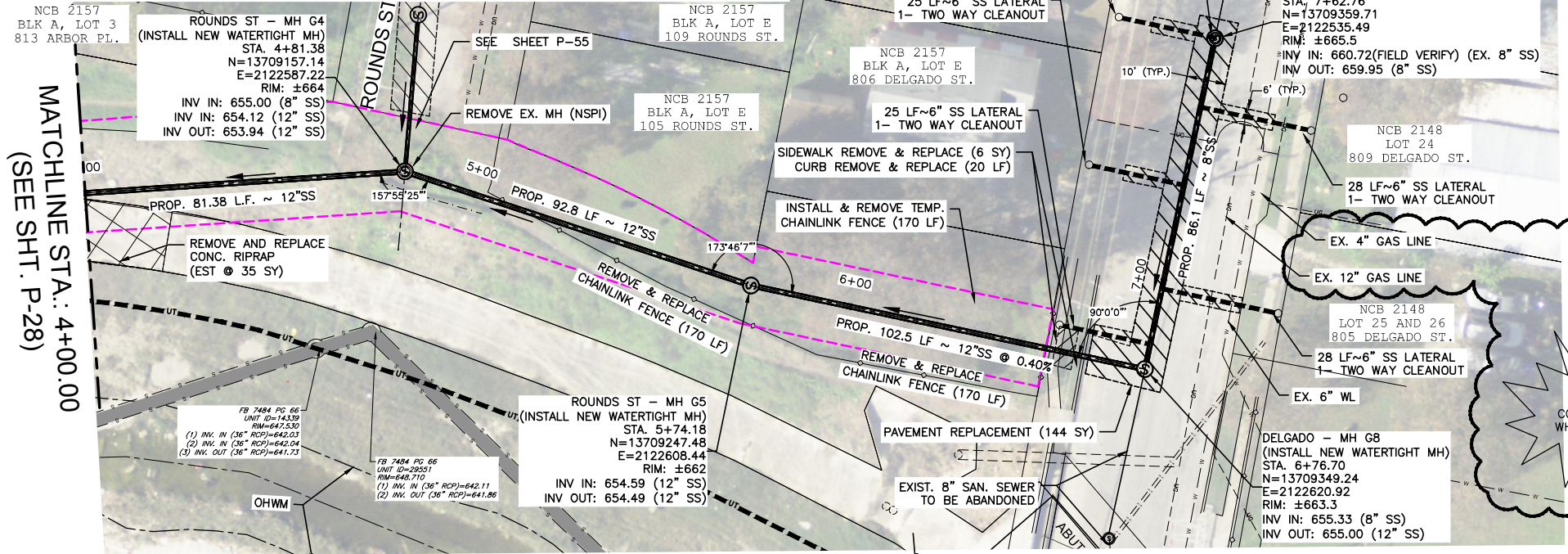
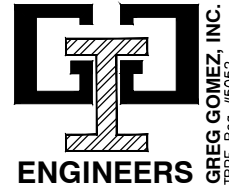
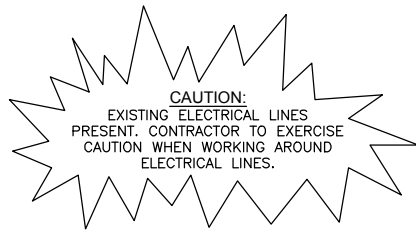
DATE: 9/26/2018

Sheet P-26

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TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

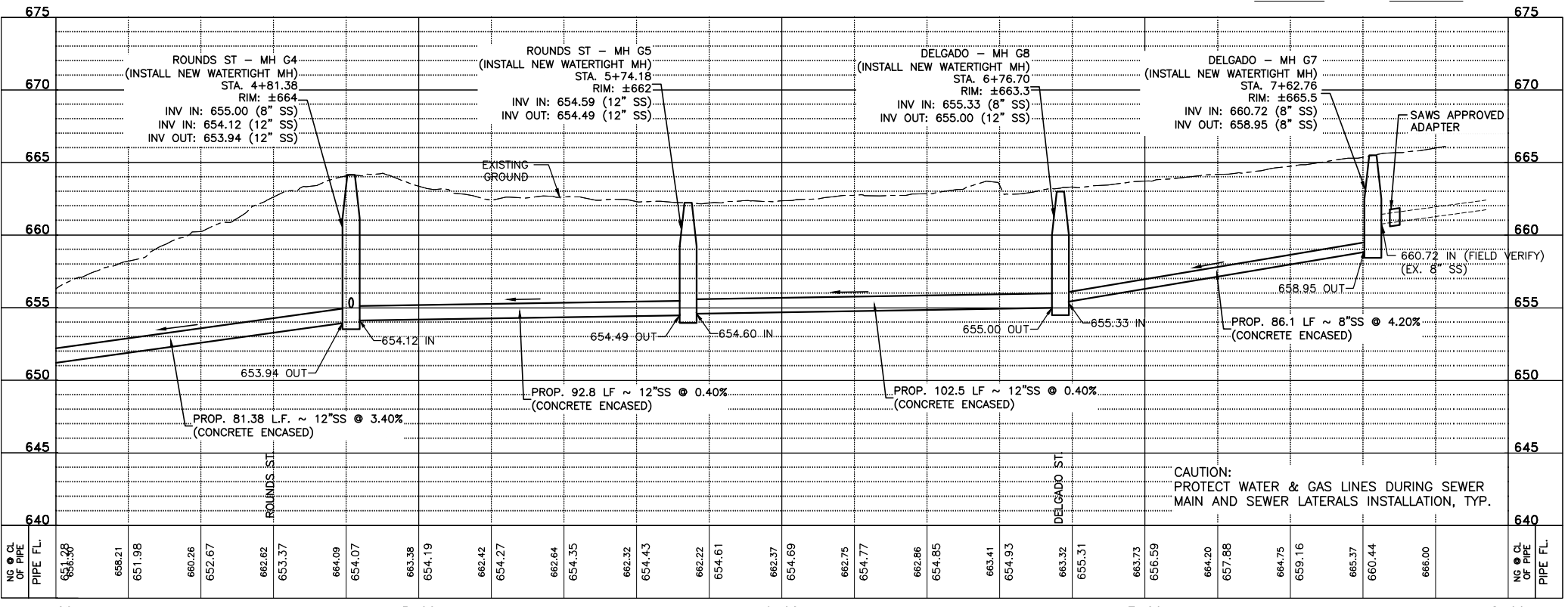


- LEGEND**
- EXISTING R.O.W. (ASSUMED)
 - - - - PROPOSED R.O.W.
 - - - - W EXISTING WATER LINE
 - - - - SS EXISTING SANITARY SEWER
 - - - - OHE EXISTING OVERHEAD UTILITY
 - - - - -UG EXISTING GAS LINE
 - - - - EASEMENT LINE
 - - - - EXISTING IRON FENCE
 - - - - EXISTING POWER POLE WITH GUY WIRE
 - - - - EXISTING ELECTRICAL PEDESTAL
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING MANHOLE
 - EXISTING FIRE HYDRANT
 - EXISTING WATER VALVE
 - EXISTING WATER METER
 - EXISTING GAS METER
 - EXISTING GAS VALVE
 - EXISTING SIGN
- LEGEND & ABBREVIATIONS**
- PROPOSED SAN. SEW. MANHOLE
 - PROPOSED SAN. SEW.
 - - - - PROPOSED SAN. SEW. LATERAL
 - ▨ PAVEMENT REPAIR
 - EX. SAN. SEW. (TO BE ABANDONED)
 - (NSPI) NO SEPARATE PAY ITEM
 - OHWM ORDINARY HIGH WATER MARK
 - JOINT USE AGREEMENT

PLAN

DELGADO TO CAMADA

FULL SIZE: 1"=20' HORZ., 1"=5' VERT.
HALF SIZE: 1"=40' HORZ., 1"=10' VERT.



PROFILE

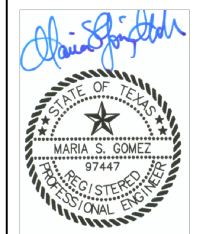
Item No.	Description	Unit	Quantity
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	20.00
103.3	REMOVE CONCRETE SIDEWALK AND DRIVEWAY (COSA SPEC)	SF	54.00
103.4	REMOVE MISCELLANEOUS CONCRETE (COSA SPEC)	SF	315.00
203.1	TACK COAT (COSA SPEC)	GAL	14.40
205.4	HMAC PVMINT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	144.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	144.00
500.1	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF	20.00
502.1	CONCRETE SIDEWALKS-CONVENTIONALLY FORMED (COSA SPEC)	SY	6.00
505.1	CONCRETE RIPRAP (UP TO 6 INCHES) (COSA SPEC)	SY	35.00
507.1	CHAIN LINK WIRE FENCE WITH POSTS - 4' (REMOVE AND REPLACE)(COSA SPEC)	LF	170.00
507.2	CHAIN LINK WIRE FENCE WITH POSTS - 6' (TEMPORARY)(COSA SPEC)	LF	170.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	2,200.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	362.78
848A	12" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	362.78
853A	4' FIBERGLASS SANITARY SEWER MANHOLE (0-6')	EA	4.00
853	4' EXTRA DEPTH MANHOLE (>6')	VF	8.42
854.1	SANITARY SEWER LATERAL (SDR26-2241, 160 PSI)	LF	150.00
854.2	TWO-WAY CLEAN OUTS	EA	5.00
858	CONCRETE ENCASUREMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	125.00
862.1	ABANDONMENT OF SANITARY SEWER MAIN & MANHOLES (IN-PLACE)	LF	335.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	362.78

DESIGN BY: CWR	DATE: SEPTEMBER 2018
DRAWN BY: CDS	APPROVED BY:
CHECKED BY: MR	CDS JOB NO.: 115143
REVIEWED BY: KR	DWG NAME: 15143-SS-29
	NO.
	DATE
	REVISIONS
	ADDENDUM No. 2
	BY



MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802 DELGADO TO CAMADA



DATE: 9/26/2018

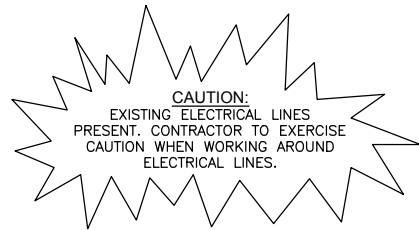
Sheet P-29

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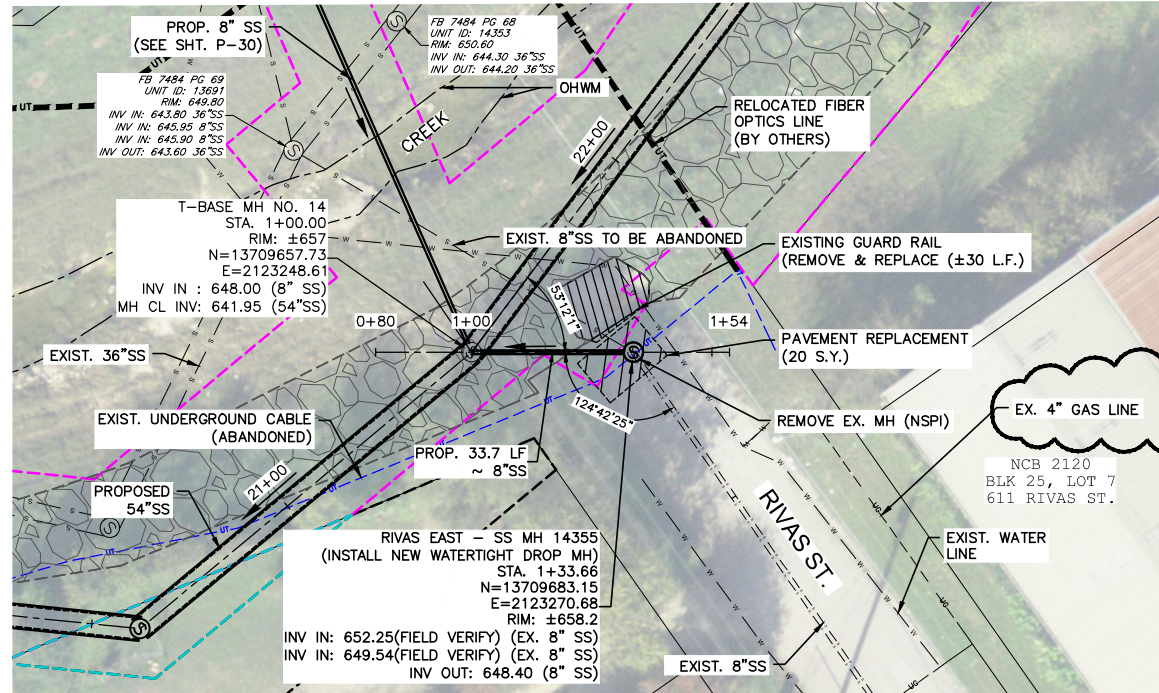
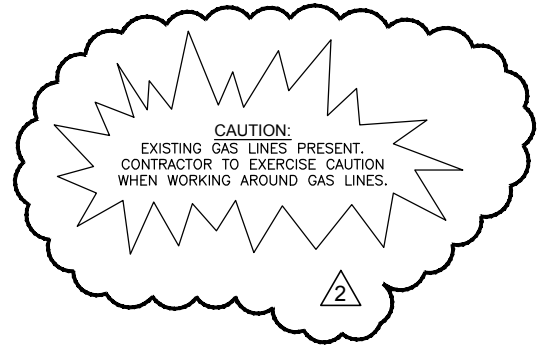
F:\2015\115143 SAWS MARTINEZ CREEK-Civil 3D\DWG\Engineering\DWG\95% Design\115143-SIDE-P28-29.dwg

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

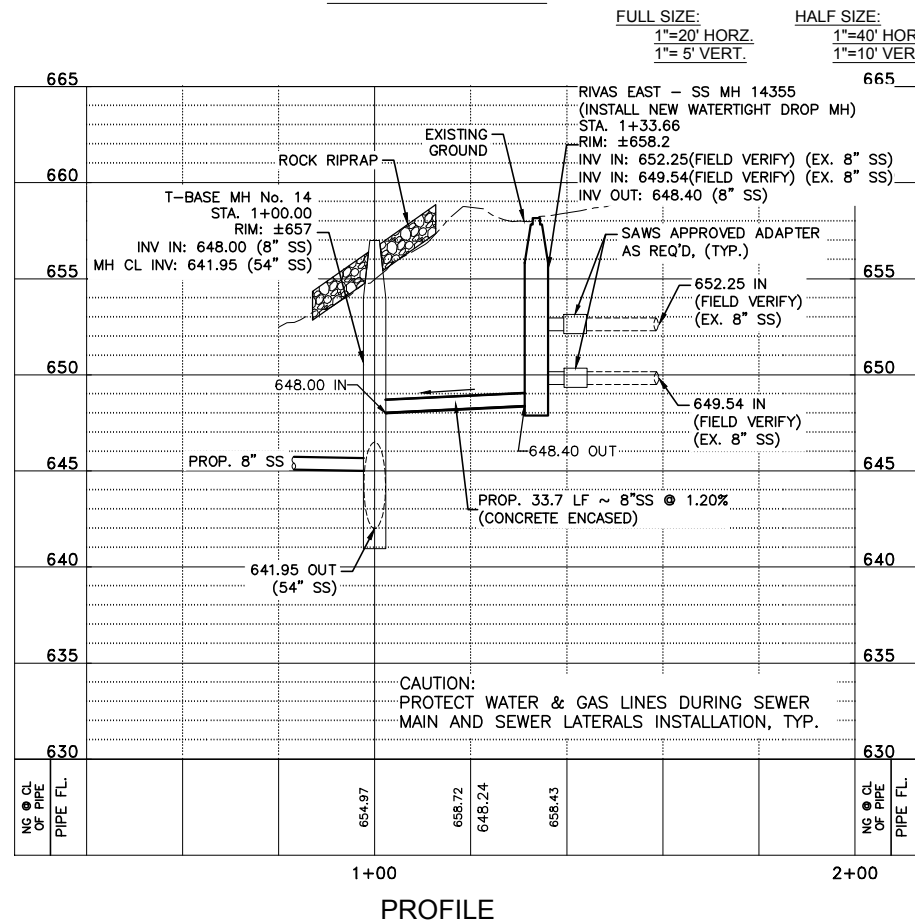


Item No.	Description	Unit	Quantity
203.1	TACK COAT (COSA SPEC)	GAL	2.00
205.4	HMAC PVMNT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	20.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	20.00
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	30.00
510	TIMBER GUARD POSTS (COSA SPEC)	EA	6.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	33.70
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	33.70
853A	4" FIBERGLASS SANITARY SEWER DROP MANHOLE (0-6')	EA	1.00
853	4" EXTRA DEPTH MANHOLE (>6')	VF	3.76
858	CONCRETE ENCASMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	12.00
862.1	ABANDONMENT OF SANITARY SEWER MAIN & MANHOLES (IN-PLACE)	LF	80.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	33.70

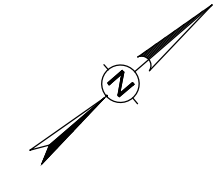


PLAN

RIVAS EAST



PROFILE



SCALE IN FEET
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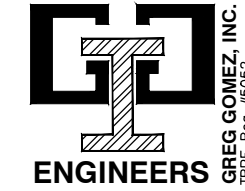
SCALE:
1"=20' (FULL SIZE)
1"=40' (HALF SIZE)

LEGEND

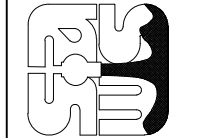
- EXISTING R.O.W. (ASSUMED)
- - - - - PROPOSED R.O.W.
- - - - - W EXISTING WATER LINE
- - - - - SS EXISTING SANITARY SEWER
- - - - - OHE EXISTING OVERHEAD UTILITY
- - - - - UG EXISTING GAS LINE
- - - - - EASEMENT LINE
- - - - - EXISTING IRON FENCE
- ⊕ EXISTING POWER POLE WITH GUY WIRE
- ⊕ EXISTING ELECTRICAL PEDESTAL
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING MANHOLE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING WATER METER
- ⊕ EXISTING GAS METER
- ⊕ EXISTING GAS VALVE
- ⊕ EXISTING SIGN

LEGEND & ABBREVIATIONS

- ⊕ PROPOSED SAN. SEW. MANHOLE
- PROPOSED SAN. SEW.
- - - - - PROPOSED SAN. SEW. LATERAL
- ▨ PAVEMENT REPAIR
- - - - - EX. SAN. SEW. (TO BE ABANDONED)
- (NSPI) NO SEPARATE PAY ITEM
- OHWM ORDINARY HIGH WATER MARK
- JOINT USE AGREEMENT
- PERMANENT EASEMENT



CDS muary
ENGINEERS • SURVEYORS
DESIGN BY: CWR DATE: SEPTEMBER 2018
DRAWN BY: CDS APPROVED BY:
CHECKED BY: MR CDS JOB NO.: 115143
REVIEWED BY: KR DWG NAME: 115143-SIDE-P31



MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
RIVAS EAST



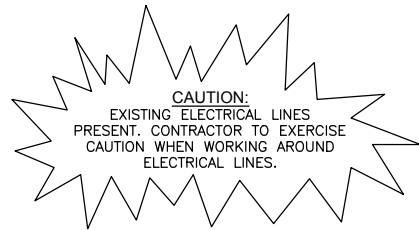
DATE: 9/26/2018

Sheet P-31

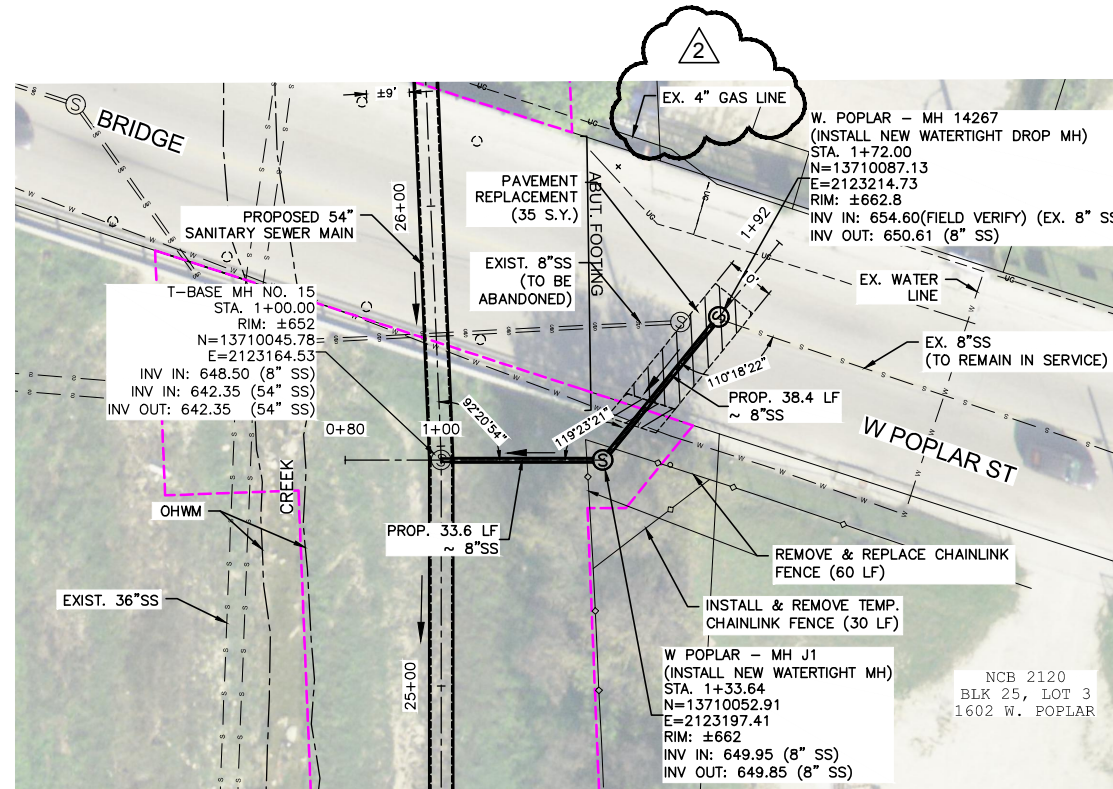
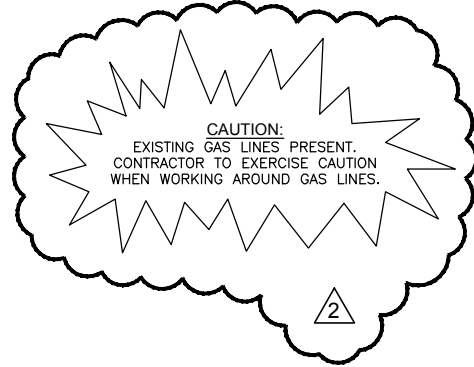
62 of 115

TRENCH EXCAVATION SAFETY PROTECTION

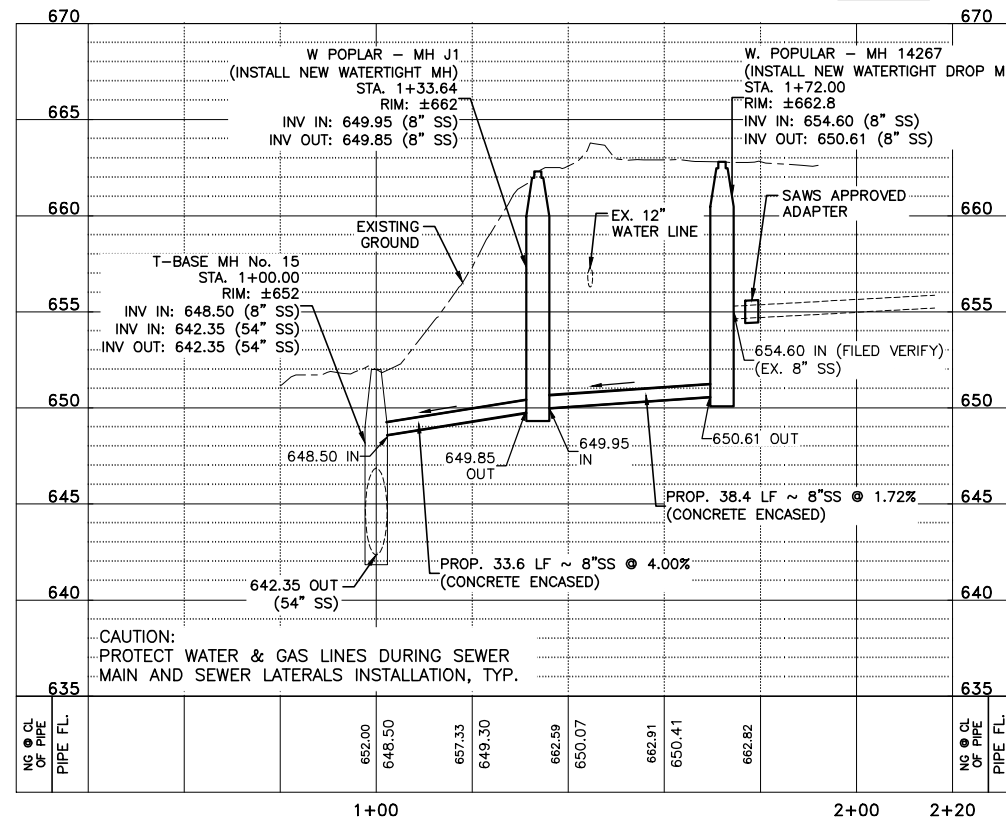
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



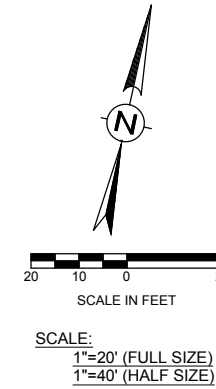
Item No.	Description	Unit	Quantity
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	10.00
103.3	REMOVE CONCRETE SIDEWALK AND DRIVEWAY (COSA SPEC)	SF	45.00
203.1	TACK COAT (COSA SPEC)	GAL	3.50
205.4	HMAC PVMINT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
500.1	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF	10.00
502.1	CONCRETE SIDEWALKS-CONVENTIONALLY FORMED (COSA SPEC)	SY	5.00
507.2	CHAIN LINK WIRE FENCE WITH POSTS - 6' (REMOVE AND REPLACE)(COSA SPEC)	LF	60.00
507.2	CHAIN LINK WIRE FENCE WITH POSTS - 6' (TEMPORARY)(COSA SPEC)	LF	30.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	22.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	72.00
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	72.00
853A	4' FIBERGLASS SANITARY SEWER MANHOLE (0-6')	EA	1.00
853A	4' FIBERGLASS SANITARY SEWER DROP MANHOLE (0-6')	EA	1.00
853	4' EXTRA DEPTH MANHOLE (>6')	VF	12.98
858	CONCRETE ENGAGEMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	24.00
862.1	ABANDONMENT OF SANITARY SEWER MAIN & MANHOLES (IN-PLACE)	LF	90.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	72.00



PLAN
POPLAR EAST



PROFILE

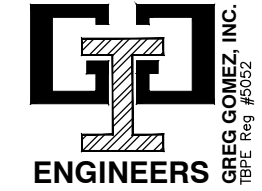


LEGEND

---	EXISTING R.O.W. (ASSUMED)
- - - -	PROPOSED R.O.W.
---	EXISTING WATER LINE
---	EXISTING SANITARY SEWER
---	EXISTING OVERHEAD UTILITY
---	EXISTING GAS LINE
---	EASEMENT LINE
---	EXISTING IRON FENCE
---	EXISTING POWER POLE WITH GUY WIRE
---	EXISTING ELECTRICAL PEDESTAL
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING MANHOLE
---	EXISTING FIRE HYDRANT
---	EXISTING WATER VALVE
---	EXISTING WATER METER
---	EXISTING GAS METER
---	EXISTING GAS VALVE
---	EXISTING SIGN

LEGEND & ABBREVIATIONS

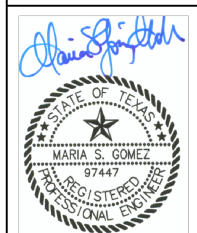
---	PROPOSED SAN. SEW. MANHOLE
---	PROPOSED SAN. SEW.
---	PROPOSED SAN. SEW. LATERAL
---	PAVEMENT REPAIR
---	EX. SAN. SEW. (TO BE ABANDONED)
(NSPI)	NO SEPARATE PAY ITEM
OHWM	ORDINARY HIGH WATER MARK
---	JOINT USE AGREEMENT



DESIGN BY: CWR	DATE: SEPTEMBER 2018
DRAWN BY: CDS	APPROVED BY:
CHECKED BY: MR	CDS JOB NO.: 115143
REVIEWED BY: KR	DWG NAME: 115143-SIDE-P32
	NO. 2
	DATE 9/25/18
	REVISIONS
	BY

MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
POPLAR EAST



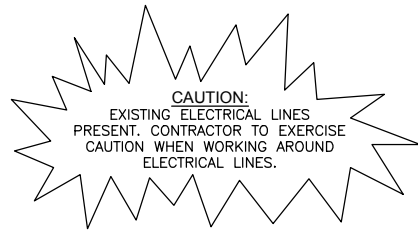
DATE: 9/26/2018

Sheet P-32

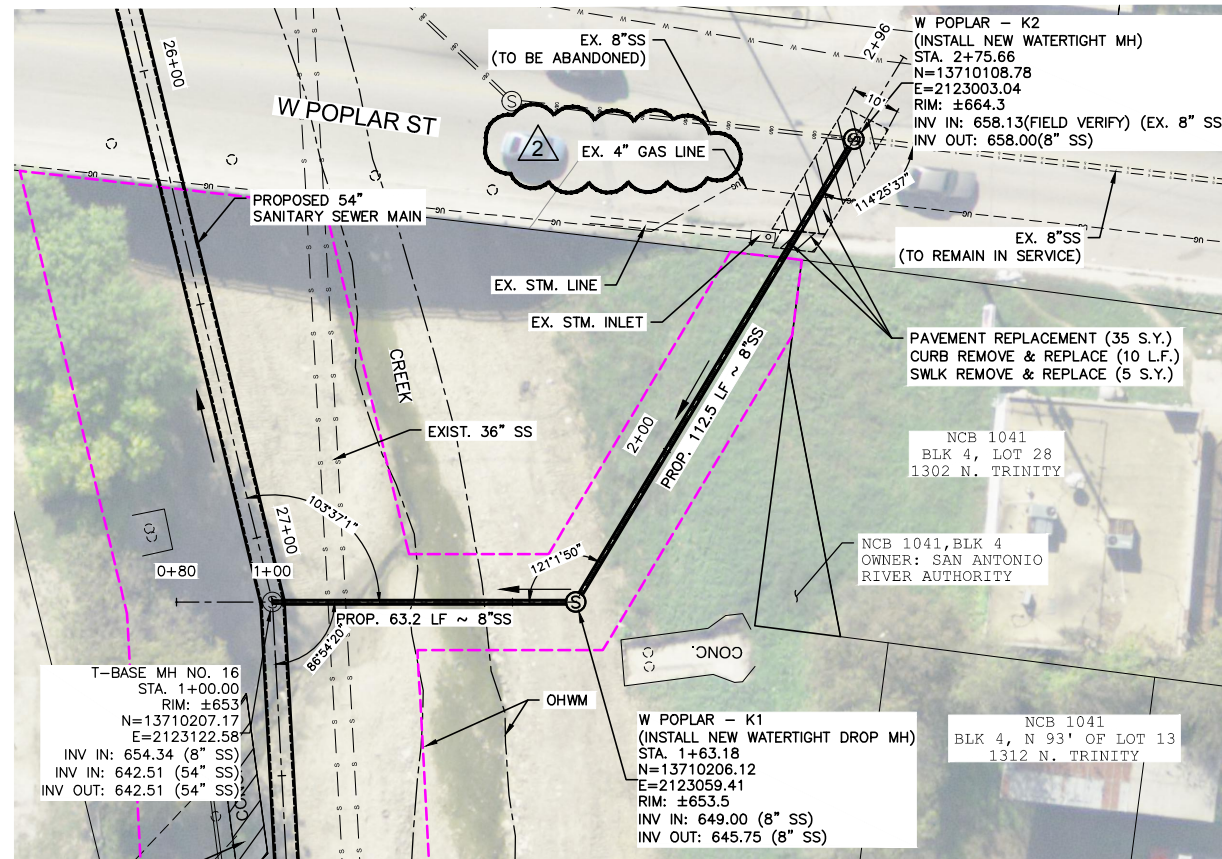
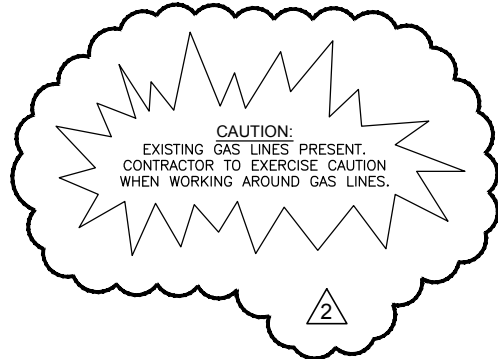
63 of 115

TRENCH EXCAVATION SAFETY PROTECTION

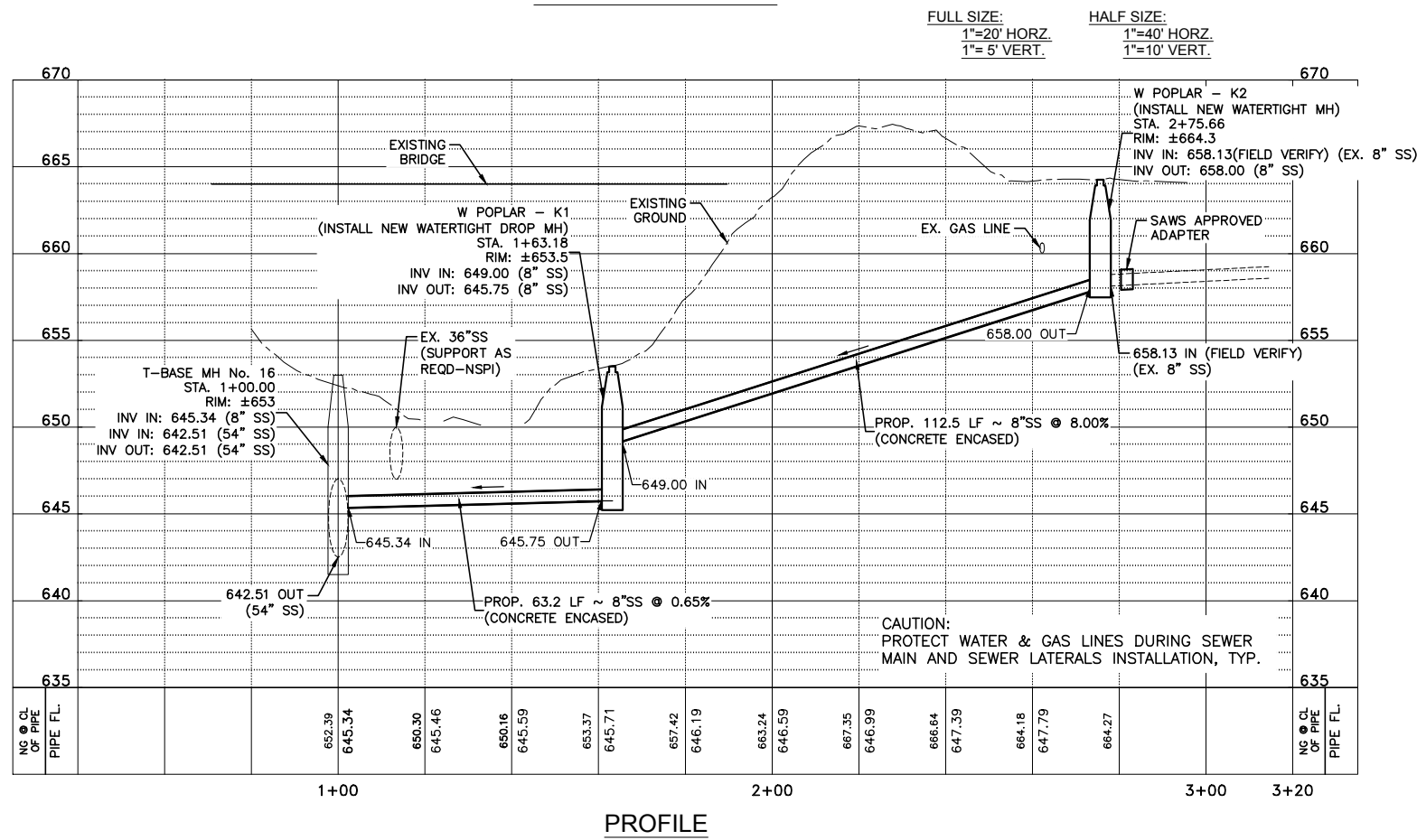
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



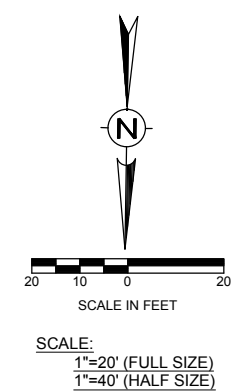
Item No.	Description	Unit	Quantity
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	10.00
103.3	REMOVE CONCRETE SIDEWALK AND DRIVEWAY (COSA SPEC)	SF	45.00
203.1	TACK COAT (COSA SPEC)	GAL	3.50
205.4	HMAC PVMNT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
500.1	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF	10.00
502.1	CONCRETE SIDEWALKS-CONVENTIONALLY FORMED (COSA SPEC)	SY	5.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	711.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	175.70
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	175.70
853A	4" FIBERGLASS SANITARY SEWER MANHOLE (0-6')	EA	1.00
853A	4" FIBERGLASS SANITARY SEWER DROP MANHOLE (0-6')	EA	1.00
853	4" EXTRA DEPTH MANHOLE (>6')	VF	2.05
858	CONCRETE ENCASEMENT (5-YR FLDPN) (FLOWABLE FILL)	CY	63.00
862.1	ABANDONMENT OF SANITARY SEWER MAIN & MANHOLES (IN-PLACE)	LF	130.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	175.70



PLAN
POPLAR WEST

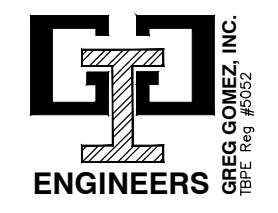


PROFILE



- LEGEND**
- EXISTING R.O.W. (ASSUMED)
 - PROPOSED R.O.W.
 - EXISTING WATER LINE
 - EXISTING SANITARY SEWER
 - EXISTING OVERHEAD UTILITY
 - EXISTING GAS LINE
 - EASEMENT LINE
 - EXISTING IRON FENCE
 - EXISTING POWER POLE WITH GUY WIRE
 - EXISTING ELECTRICAL PEDESTAL
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING MANHOLE
 - EXISTING FIRE HYDRANT
 - EXISTING WATER VALVE
 - EXISTING WATER METER
 - EXISTING GAS METER
 - EXISTING GAS VALVE
 - EXISTING SIGN

- LEGEND & ABBREVIATIONS**
- PROPOSED SAN. SEW. MANHOLE
 - PROPOSED SAN. SEW.
 - PROPOSED SAN. SEW. LATERAL
 - PAVEMENT REPAIR
 - EX. SAN. SEW. (TO BE ABANDONED)
 - (NSPI) NO SEPARATE PAY ITEM
 - OHWM ORDINARY HIGH WATER MARK
 - JOINT USE AGREEMENT



DESIGN BY: CWR	DATE: SEPTEMBER 2018
DRAWN BY: CDS	APPROVED BY:
CHECKED BY: MR	CDS JOB NO.: 115143
REVIEWED BY: KR	DWG NAME: 115143-SIDE-P33
	NO. 2
	DATE 9/25/18
	REVISIONS
	BY

MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
POPLAR WEST



DATE: 9/26/2018

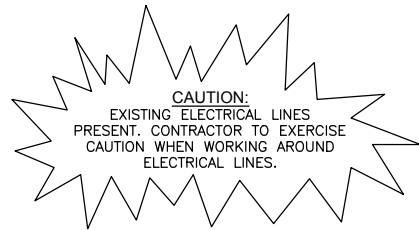
Sheet P-33

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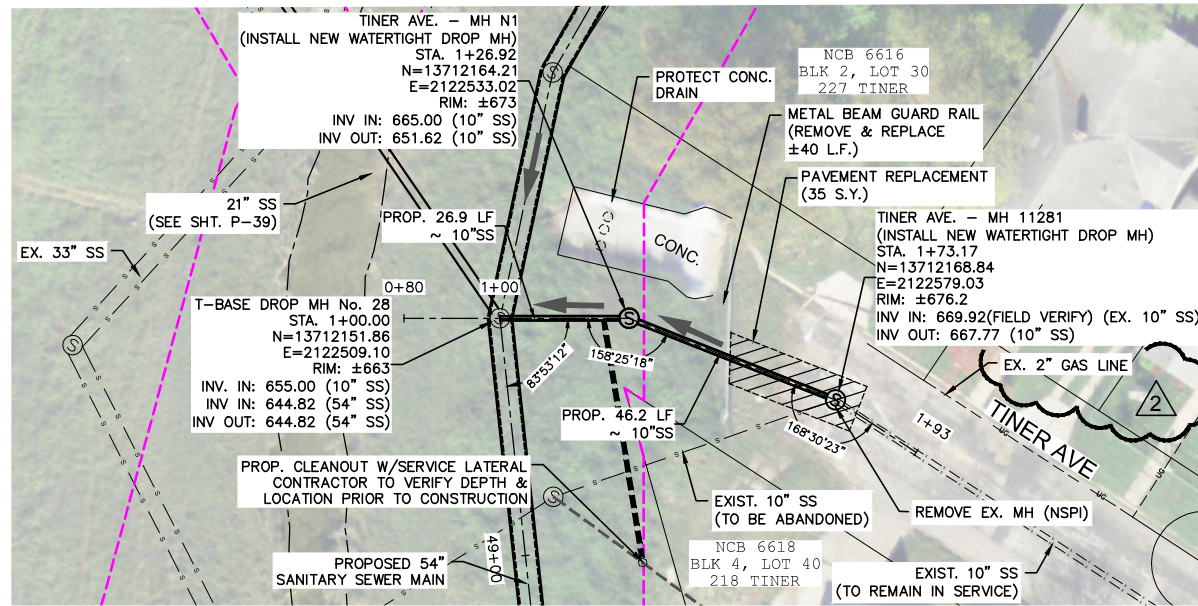
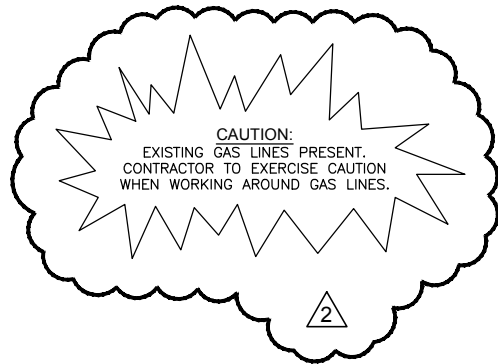
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TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

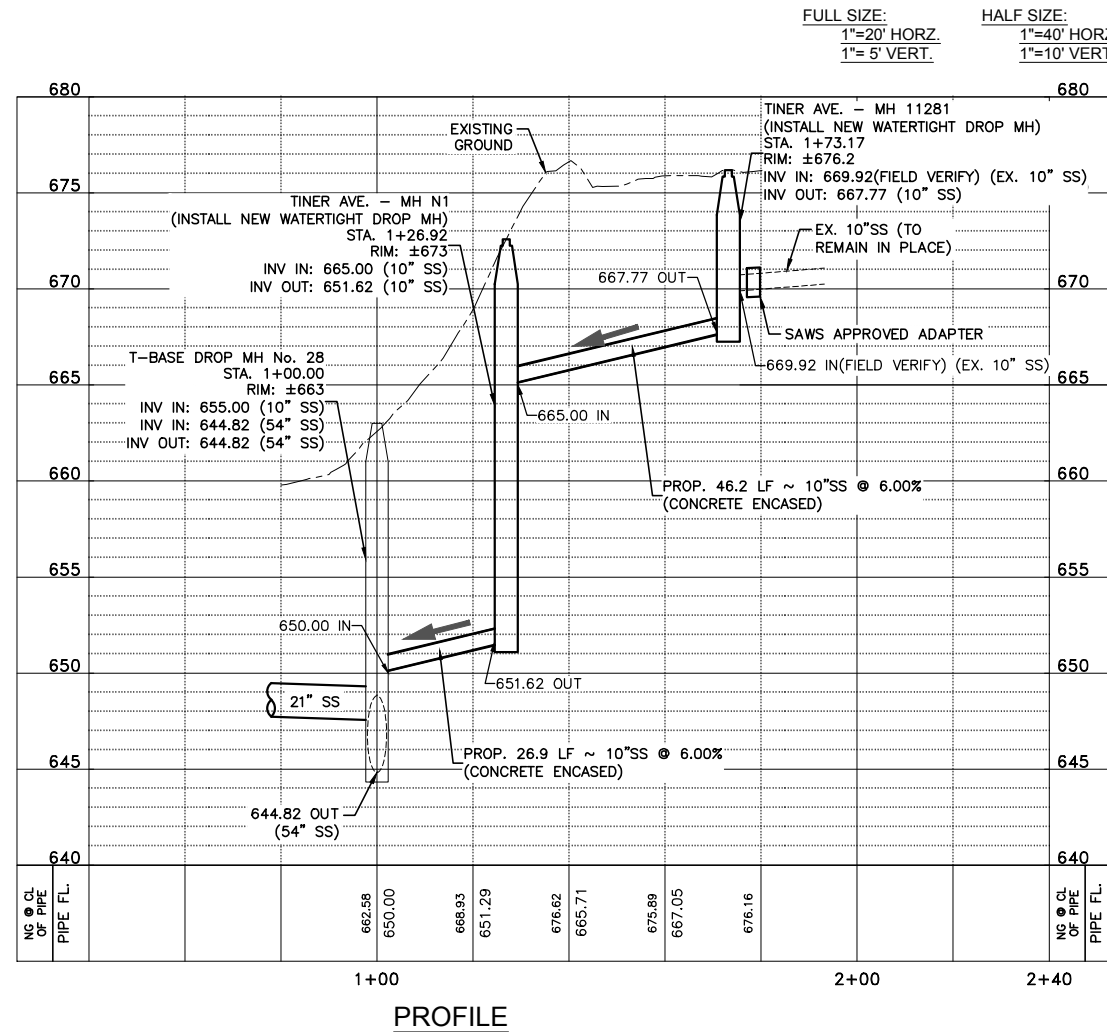


Item No.	Description	Unit	Quantity
203.1	TACK COAT (COSA SPEC)	GAL	3.50
205.4	HMAC PVMNT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	35.00
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	40.00
510	TIMBER GUARD POSTS (COSA SPEC)	EA	8.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	111.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	73.10
848A	10" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	73.10
853A	4" FIBERGLASS SANITARY SEWER DROP MANHOLE (0-6')	EA	2.00
853	4' EXTRA DEPTH MANHOLE (>6')	VF	17.80
854.1	SANITARY SEWER LATERAL (SDR26-2241, 160 PSI)	LF	50.00
854.2	TWO-WAY CLEAN OUTS	EA	1.00
858	CONCRETE ENCASMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	24.00
860	VERTICAL STACKS	VF	4.88
862.1	ABANDONMENT OF SANITARY SEWER MAIN & MANHOLES (IN-PLACE)	LF	140.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	73.10

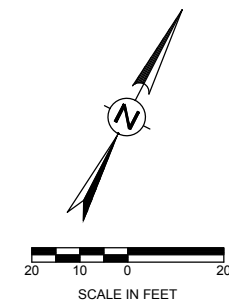


PLAN

TINER EAST



PROFILE



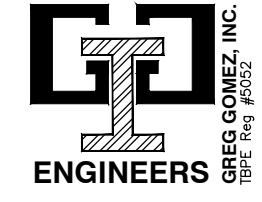
SCALE:
1"=20' (FULL SIZE)
1"=40' (HALF SIZE)

LEGEND

- EXISTING R.O.W. (ASSUMED)
- - - PROPOSED R.O.W.
- - - W - - - EXISTING WATER LINE
- - - SS - - - EXISTING SANITARY SEWER
- - - OHE - - - EXISTING OVERHEAD UTILITY
- - - UG - - - EXISTING GAS LINE
- - - EASEMENT LINE
- - - EXISTING IRON FENCE
- ⊕ → EXISTING POWER POLE WITH GUY WIRE
- ⊕ EXISTING ELECTRICAL PEDESTAL
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING MANHOLE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING WATER METER
- ⊕ EXISTING GAS METER
- ⊕ EXISTING GAS VALVE
- ⊕ EXISTING SIGN

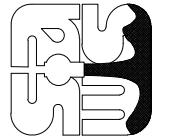
LEGEND & ABBREVIATIONS

- ⊕ PROPOSED SAN. SEW. MANHOLE
- PROPOSED SAN. SEW.
- - - PROPOSED SAN. SEW. LATERAL
- ▨ PAVEMENT REPAIR
- - - EX. SAN. SEW. (TO BE ABANDONED)
- (NSPI) NO SEPARATE PAY ITEM
- OHWM ORDINARY HIGH WATER MARK
- ⊕ JOINT USE AGREEMENT



CDS muary
ENGINEERS • SURVEYORS

DESIGN BY: CWR DATE: SEPTEMBER 2018
DRAWN BY: CDS APPROVED BY:
CHECKED BY: MR CDS JOB NO.: 115143
REVIEWED BY: KR DWG NAME: 115143-SIDE-P38



MARTINEZ CREEK-
PEREZ ST. TO
W. HUISACHE AVE.
PROJECT

SAWS Job No. 15-4802
TINER EAST

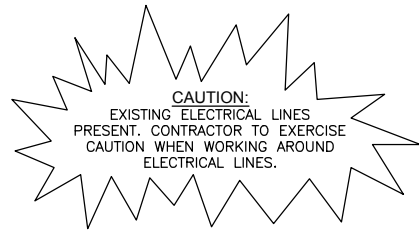


DATE: 9/26/2018
Sheet P-38
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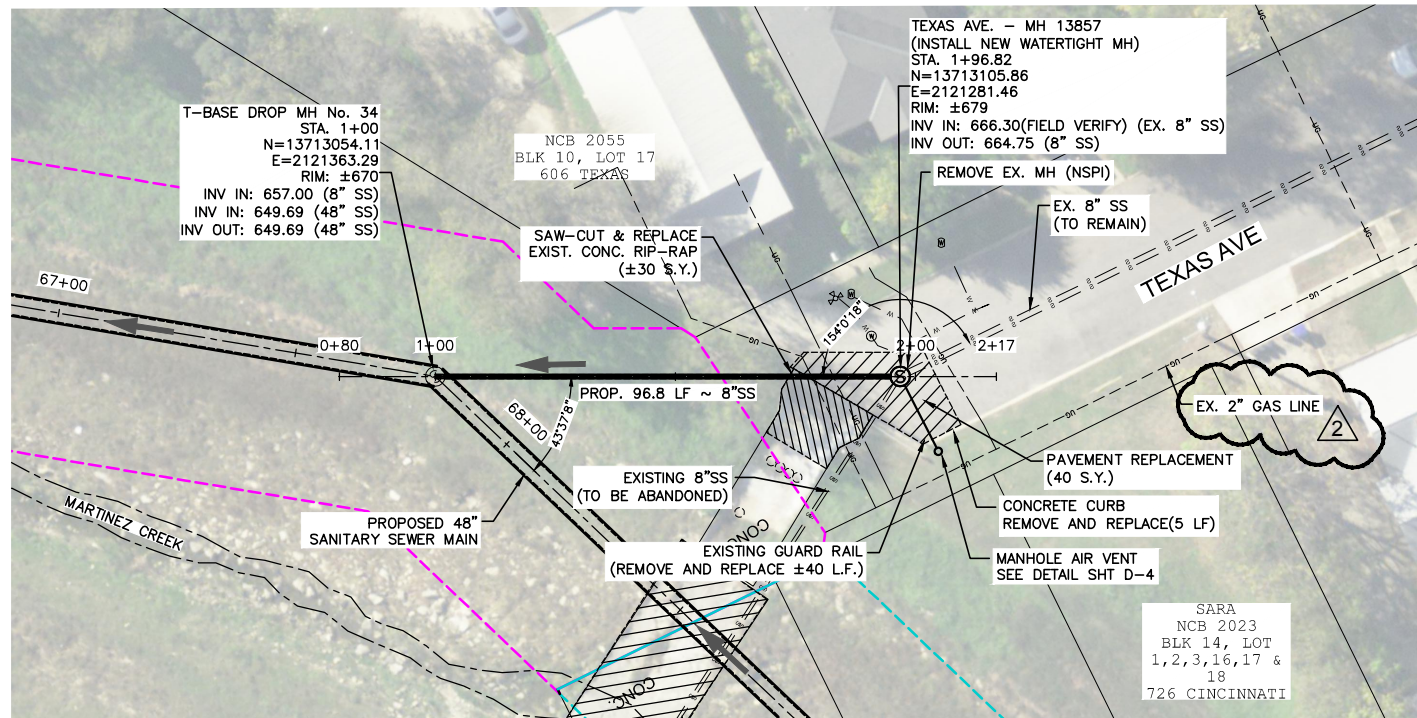
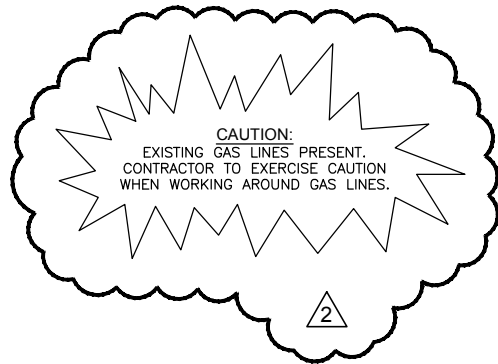
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TRENCH EXCAVATION SAFETY PROTECTION

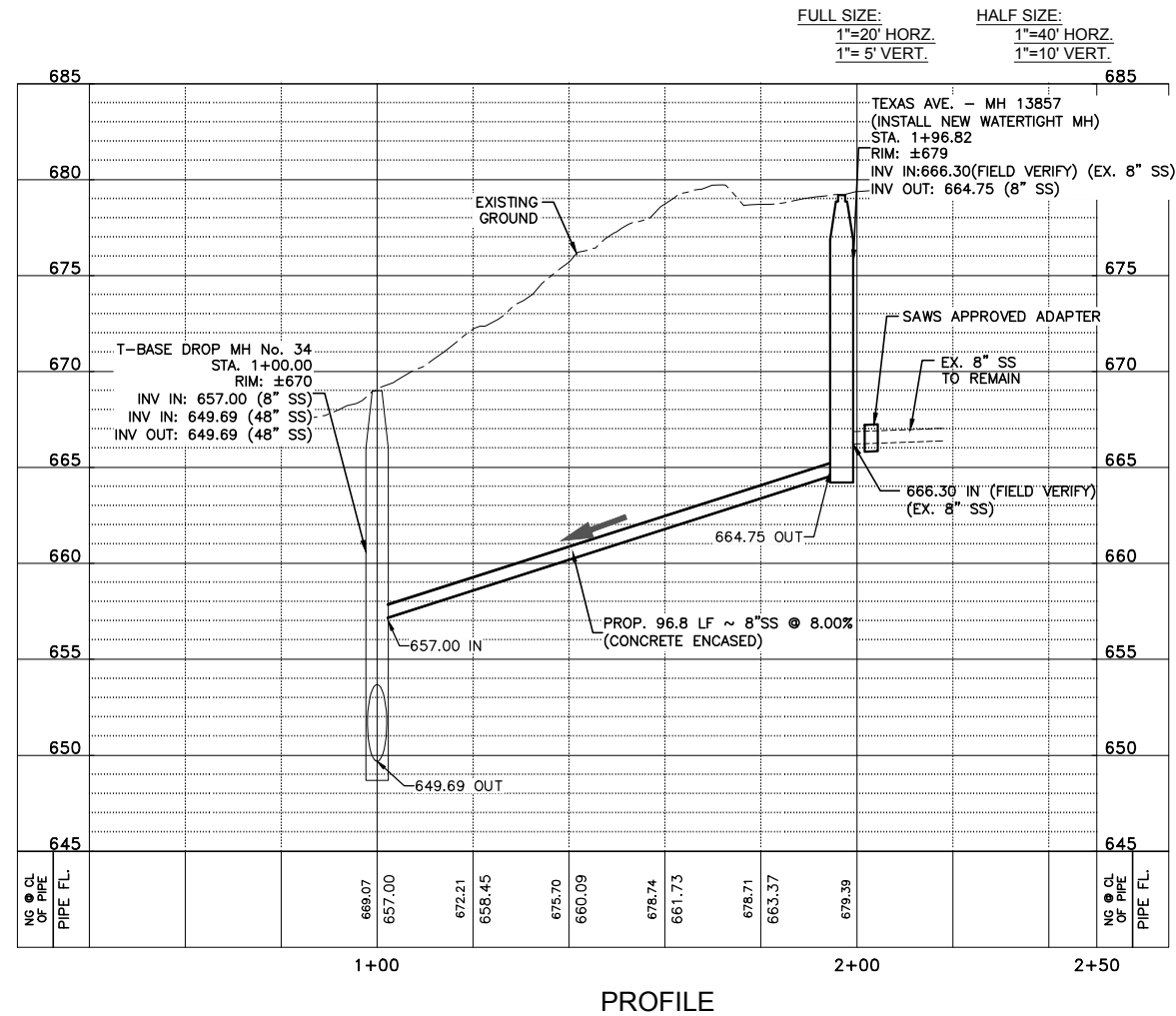
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



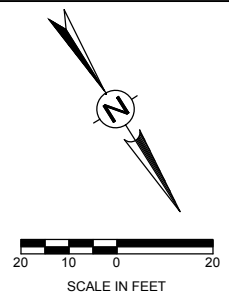
Item No.	Description	Unit	Quantity
103.1	REMOVE CONCRETE CURB (COSA SPEC)	LF	5.00
103.4	REMOVE MISCELLANEOUS CONCRETE (COSA SPEC)	SF	270.00
203.1	TACK COAT (COSA SPEC)	GAL	4.00
205.4	HMAC PVMNT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	40.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	40.00
500.1	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER (COSA SPEC)	LF	5.00
505.1	CONCRETE RIPRAP (UP TO 6 INCHES) (COSA SPEC)	SY	30.00
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	40.00
510	TIMBER GUARD POSTS (COSA SPEC)	EA	8.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	222.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	96.80
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	96.80
853A	4' FIBERGLASS SANITARY SEWER DROP MANHOLE (0-6')	EA	1.00
853	4' EXTRA DEPTH MANHOLE (>6')	VF	8.20
858	CONCRETE ENCASUREMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	33.00
862.1	ABANDONMENT OF SANITARY SEWER MAIN & MANHOLES (IN-PLACE)	LF	130.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	96.80



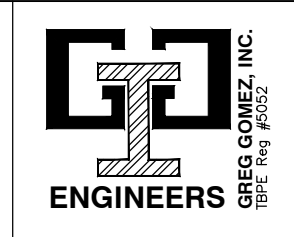
PLAN
TEXAS WEST



PROFILE



SCALE:
1"=20' (FULL SIZE)
1"=40' (HALF SIZE)



LEGEND

	EXISTING R.O.W. (ASSUMED)
	PROPOSED R.O.W.
	EXISTING WATER LINE
	EXISTING SANITARY SEWER
	EXISTING OVERHEAD UTILITY
	EXISTING GAS LINE
	EASEMENT LINE
	EXISTING IRON FENCE
	EXISTING ELECTRICAL PEDESTAL
	EXISTING SANITARY SEWER MANHOLE
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING GAS METER
	EXISTING GAS VALVE
	EXISTING SIGN

SANITARY SEWER LEGEND & ABBREVIATIONS

	PROPOSED SAN. SEW. MANHOLE
	PROPOSED SAN. SEW.
	PROPOSED SAN. SEW. LATERAL
	PAVEMENT REPAIR
	EX. SAN. SEW. (TO BE ABANDONED)
(NSPI)	NO SEPARATE PAY ITEM
OHW	ORDINARY HIGH WATER MARK
JUA	JOINT USE AGREEMENT
PERM	PERMANENT EASEMENT

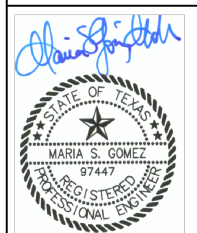
CDS muary ENGINEERS & SURVEYORS

DESIGN BY: CWR DATE: SEPTEMBER 2018
 DRAWN BY: CDS APPROVED BY:
 CHECKED BY: MR CDS JOB NO.: 115143
 REVIEWED BY: KR DWG NAME: 115143-SIDE-P42

NO. DATE REVISIONS
 2 9/25/18 ADDENDUM No. 2

MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
 TEXAS WEST



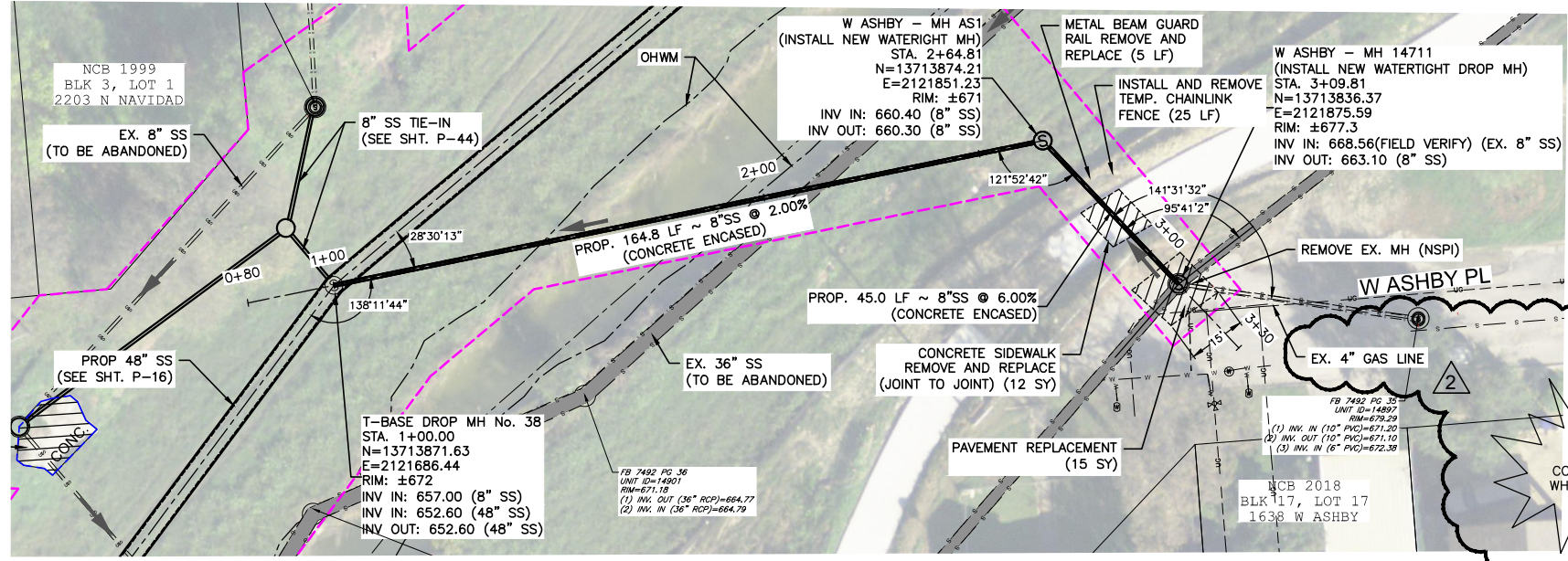
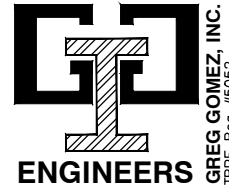
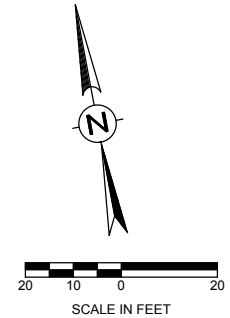
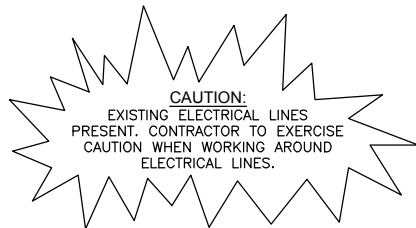
DATE: 9/26/2018

Sheet P-42

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TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



PLAN

ASHBY EAST

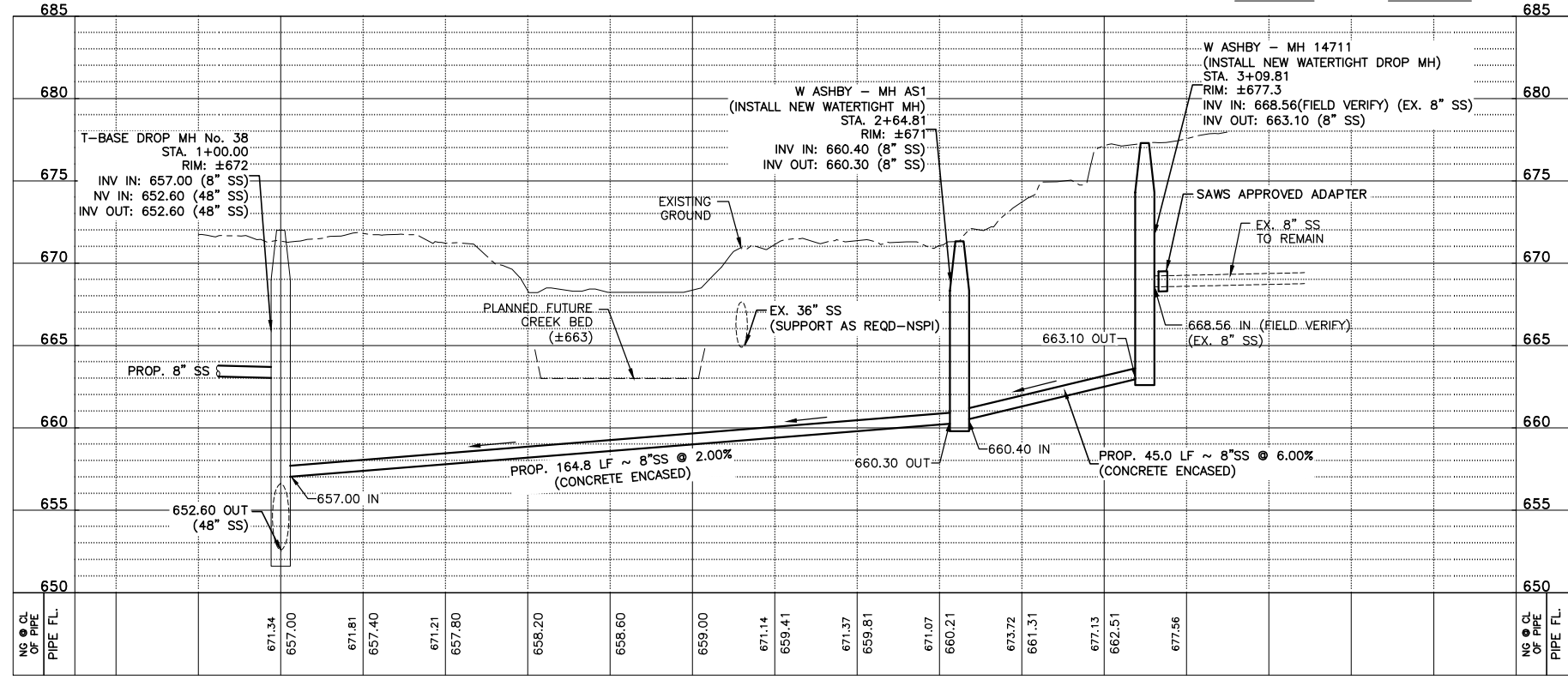
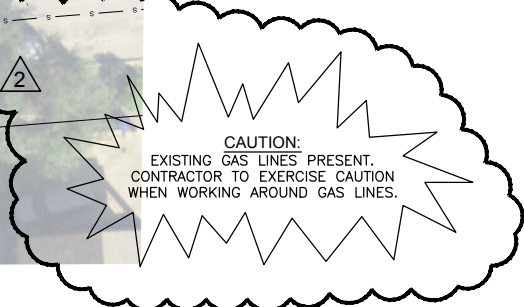
FULL SIZE: 1"=20' HORZ. 1"=5' VERT.
 HALF SIZE: 1"=40' HORZ. 1"=10' VERT.

LEGEND

- EXISTING R.O.W. (ASSUMED)
- PROPOSED R.O.W.
- W - EXISTING WATER LINE
- SS - EXISTING SANITARY SEWER
- OHE - EXISTING OVERHEAD UTILITY
- UG - EXISTING GAS LINE
- EASEMENT LINE
- EXISTING IRON FENCE
- EXISTING POWER POLE WITH GUY WIRE
- EXISTING ELECTRICAL PEDESTAL
- EXISTING SANITARY SEWER MANHOLE
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING GAS METER
- EXISTING GAS VALVE
- EXISTING SIGN

LEGEND & ABBREVIATIONS

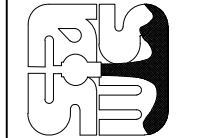
- PROPOSED SAN. SEW. MANHOLE
- PROPOSED SAN. SEW.
- PROPOSED SAN. SEW. LATERAL
- PAVEMENT REPAIR
- EX. SAN. SEW. (TO BE ABANDONED)
- (NSPI) NO SEPARATE PAY ITEM
- OHWM ORDINARY HIGH WATER MARK
- JOINT USE AGREEMENT



PROFILE

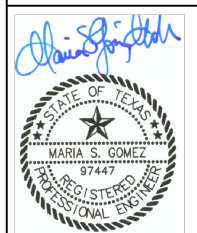
Item No.	Description	Unit	Quantity
103.3	REMOVE CONCRETE SIDEWALK AND DRIVEWAY (COSA SPEC)	SF	108.00
203.1	TACK COAT (COSA SPEC)	GAL	1.50
205.4	HMAC PVMNT TY D (2" COMPACTED DEPTH) (COSA SPEC)	SY	15.00
206.1	ATB (10" COMPACTED DEPTH) (COSA SPEC)	SY	15.00
502.1	CONCRETE SIDEWALKS-CONVENTIONALLY FORMED (COSA SPEC)	SY	12.00
507.2	CHAIN LINK WIRE FENCE WITH POSTS - 6" (TEMPORARY)(COSA SPEC)	LF	25.00
509.1	METAL BEAM GUARD RAIL (COSA SPEC)	LF	5.00
510	TIMBER GUARD POSTS (COSA SPEC)	EA	1.00
520	HYDROMULCH SEEDING (COSA SPEC)	SY	466.00
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	209.80
848A	8" PVC SANITARY SEWER LINE (SDR26-2241, 160 PSI) (ALL DEPTHS)	LF	209.80
853A	4" FIBERGLASS SANITARY SEWER MANHOLE (0-6')	EA	1.00
853A	4" FIBERGLASS SANITARY SEWER DROP MANHOLE (0-6')	EA	1.00
853	4" EXTRA DEPTH MANHOLE (>6')	VF	13.22
858	CONCRETE ENCASEMENT (5-YR FLDPLN) (FLOWABLE FILL)	CY	63.00
866	SEWER MAIN POST-TELEVISION INSPECTION (24" OR SMALLER)	LF	209.80

NO.	DATE	BY	REVISIONS
1	9/25/18	ADDENDUM No. 2	
2			



MARTINEZ CREEK- PEREZ ST. TO W. HUISACHE AVE. PROJECT

SAWS Job No. 15-4802
 ASHBY EAST



DATE: 9/26/2018

Sheet P-44A

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