



2019 SMP Package V (Bertetti., Fedora)  
Solicitation Number: CO-00205  
Job No.: 18-5015

**ADDENDUM 1**  
August 14, 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.

**RESPONSES TO QUESTIONS**

*No specific questions were submitted for 2019 SMP Package V (Bertetti Dr., Fedora)*

**CHANGES TO THE SPECIFICATIONS**

- 1. Due to an update in the General Wage Decision for Building Construction Type, remove the building wage decision document from the solicitation in entirety and replace with the revised version (rev. 08/03/2018, General Decision Number TX 180280). This version should be utilized by the awarded contractor for the project.

**CHANGES TO THE PLANS**

- 1. Adjustment to traffic control note, sheet 4 of 33
- 2. Adjustment to cap/plug locations, sheets 17, 21, 22 of 33
- 3. Adjustment to restrained lengths all water plan sheets

**CLARIFICATIONS**

*No additional clarifications are noted other than what is specified in this addendum*

**END OF ADDENDUM**

This Addendum, including this 1 page, is 19 pages with attachments in its entirety.  
Attachments:

  
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 Stephen J. Aniol  
 Lockwood, Andrews & Newnam, Inc.



*8/14/2018*

General Decision Number: TX180280 08/03/2018 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Superseded General Decision Number: TX20170280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](http://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

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
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 ELEC0060-004 06/01/2018

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

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 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.

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 ENGI0450-002 04/01/2014

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

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 IRON0066-013 06/01/2017

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 21.55	6.73

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 IRON0084-011 06/01/2017

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 23.27	7.12

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 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
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SFTX0669-002 04/01/2017

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

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\* 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

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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

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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](http://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)).

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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.

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#### 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

GENERAL NOTES

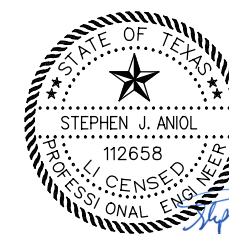
1. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS WITH THE CITY ROW DEPARTMENT PRIOR TO COMMENCING WORK. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO APPLY FOR NECESSARY PERMITS TAKING INTO ACCOUNT THE PERMIT APPROVAL TIMEFRAME.
2. TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATION REFERENCE SHEETS.
3. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. CONTRACTOR SHALL NOTIFY SAWS AND CONSULTING ENGINEER IMMEDIATELY IF UTILITY LOCATIONS DIFFER FROM WHAT IS SHOWN ON THE PLANS.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND GUY WIRES DURING CONSTRUCTION (NSPI). WHENEVER POWER/TEL. POLES ARE ADJACENT TO THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROPER SHORING, BRACING, AND/OR OTHER SUITABLE SUPPORT FOR THE POLES DURING CONSTRUCTION. (NSPI)
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER SERVICE TO EXISTING WATER MAINS AND SERVICES AT ALL TIMES.
6. CONTRACTOR SHALL PROTECT AND/OR REPAIR (IF DAMAGED) ANY EXISTING WATER SERVICE LATERALS AND IRRIGATION SHOWN OR NOT SHOWN IN THE PLANS (NSPI).
7. CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
8. PROPERTY LINES SHOWN ARE APPROXIMATE.
9. CONTRACTOR TO PROTECT EXIST SIGNS (NSPI). PROVIDE TEMPORARY SIGNS AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH CONSTRUCTION OF WATER MAIN (NSPI).
10. CONTRACTOR TO PROVIDE PROPERTY OWNER ACCESS TO PROPERTY AT ALL TIMES. ANY RESTRICTION IN ACCESS SHALL BE COMMUNICATED TO THE PROPERTY OWNER AND SAWS A MINIMUM OF 48 HOURS IN ADVANCE.
11. ALL AREAS DISTURBED BY THE CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION THAN THE START OF CONSTRUCTION. ALL REMOVED GATES, FENCES, MAILBOXES, IMPROVEMENTS, LANDSCAPING, ETC. SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, UNLESS OTHERWISE STIPULATED IN THE CONSTRUCTION DOCUMENTS.
12. REMOVAL OF ABANDONED FACILITIES, WHETHER EXISTING OR ABANDONED AS PART OF THIS PROJECT, SHALL BE PAID FOR UNDER COSA ITEMS 101, "PREPARING RIGHT-OF-WAY." EXISTING TREES AND SIGNS IN ACQUIRED RIGHT-OF-WAY TO ALSO BE PAID FOR UNDER ITEM 101.
13. CONTRACTOR TO COORDINATE WITH VIA METROPOLITAN TRANSIT AT LEAST TWO WEEKS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOT DISTURB OR ADJUST ANY VIA FACILITIES.
14. ACCESS TO BUS STOP MUST BE MAINTAINED DURING CONSTRUCTION.
15. CONTRACTOR SHALL RESTORE PAVEMENT IN ACCORDANCE WITH THE PAVEMENT REPLACEMENT DETAIL, UNLESS OTHERWISE CALLED OUT ON PLANS. DENSITY COMPACTION REQUIREMENTS SHALL MEET OR EXCEED COSA/SAWS SPECIFICATIONS. PAVEMENT SAWCUTS SHALL BE SQUARE AND PROPERLY TACKED WITH AN APPROVED MATERIAL. BUTT JOINTS ARE NOT ALLOWED.
16. WHERE REMOVAL OF PERMANENT FENCING IS REQUIRED, CONTRACTOR TO PROVIDE TEMPORARY FENCING AND GATES ALONG LIMITS OF CONSTRUCTION TO SECURE PRIVATE PROPERTY DURING CONSTRUCTION ACTIVITY. (NSPI)
17. FOR ASBESTOS CEMENT PIPE REMOVAL SEE SHEET 5.
18. ALL PROPOSED WATER PIPE SHALL HAVE 5 FEET OF COVER FROM FINISHED GRADE UNLESS OTHERWISE NOTED ON PLANS.
19. VALVE BOXES TO BE SET FLUSH WITH FINISHED GRADE OF ROAD OR PARKWAY (NSPI).
20. CONTRACTOR TO MAINTAIN WATER CONNECTIONS AT ALL TIMES DURING THE CUT/ FILL AND/OR PREPARATION OF ROW.
21. ALL EXISTING FIRE HYDRANTS THAT ARE SHOWN AS TO BE REMOVED SHALL BE SALVAGED AND RETURNED TO SAWS (NSPI).
22. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY WATER VALVES THAT ARE IN THE PROJECT AREA. ALL WATER VALVES AND MANHOLES IN SERVICE, EXISTING OR NEW, SHALL REMAIN UNCOVERED FOR FULL ACCESS BY SAWS AT ALL TIMES. CONTRACTOR SHALL ALSO MAINTAIN ACCESS TO EXISTING AND PROPOSED WATER VALVES AT ALL TIMES (NSPI).

23. CONCRETE ENCASUREMENT, WHERE REQUIRED, SHALL BE PLACED FOR FULL WIDTH OF THE TRENCH TO A PLANE SIX (6) INCHES ABOVE THE TOP OF THE PIPE. NO DIRECT PAYMENT WILL BE MADE FOR CONCRETE ENCASUREMENT EXTENDING FURTHER THAN SIX (6) INCHES IN A HORIZONTAL PLANE OR VERTICAL PLANE FROM THE PIPE, REGARDLESS OF THE AMOUNT PLACED. (SEE SAWS STANDARD DETAIL DD-858-01)
24. CONTRACTOR SHALL INCORPORATE THE USE OF A TRENCH BOX OR OTHER ACCEPTABLE SAFETY SYSTEM IN ANY TRENCH THAT EXCEEDS FIVE (5) FEET IN DEPTH. CONTRACTOR SHALL HAVE A TEXAS LICENSED PROFESSIONAL ENGINEER DESIGN THE TRENCH EXCAVATION PROTECTION SYSTEM (N.S.P.I.). CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR 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.
25. BEDDING AND INITIAL BACKFILL SHALL MEET OR EXCEED SAWS CONSTRUCTION AND MATERIAL SPECIFICATIONS. SECONDARY BACKFILL SHALL BE IN ACCORDANCE WITH DETAILS PROVIDED WITHIN THESE APPROVED CONSTRUCTION DRAWINGS.
26. SAWS SHALL MACHINE CHLORINATE NEW WATER MAINS WHERE WATER MAIN LENGTHS ARE GREATER THAN 800 FT. CONTRACTOR TO NOTIFY SAWS ONE WEEK PRIOR TO COMMENCING CHLORINATION.
27. CONTRACTOR SHALL CHLORINATE NEW MAINS WITH HTH WHERE WATER MAIN LENGTHS ARE 800-FEET OR LESS (NSPI). CONTRACTOR TO NOTIFY SAWS ONE WEEK PRIOR TO COMMENCING CHLORINATION.
28. THE CONTRACTOR SHALL PROVIDE A SIGNED EROSION CONTROL PLAN BY A LICENSED ENGINEER IN THE STATE OF TEXAS FOR BOTH LOCATIONS AS A MATERIAL SUBMITTAL PRIOR TO COMMENCING WORK IN ACCORDANCE WITH THE BID DOCUMENTS. COST INCURRED FOR PREPARATION OF SW3P PLAN SHALL BE SUBSIDIARY AND WILL RECEIVE NO DIRECT PAY. CONTRACTOR SHALL REVIEW SW3P NARRATIVE INCLUDED IN THESE PLANS FOR SUGGESTED EROSION CONTROL MEASURES. EROSION CONTROL PLAN SHALL BE DESIGNED TO PREVENT POLLUTION OF STORM WATER ORIGINATING UP GRADIENT, AND PREVENT DOWNSTREAM POLLUTION BY CONTAMINATED STORM WATER RUNOFF FROM THE SITE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL REQUIREMENTS (NSPI).
29. ANY MATERIAL OR SPOIL THAT ENTERS INLETS, DRAINAGE SWALES, OR ANY OTHER STRUCTURES SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR AT NO SEPARATE COST TO SAWS.
30. CONTRACTOR SHALL MONITOR INSTALLED SW3P CONTROL MEASURES ON A WEEKLY BASIS, INCLUDING DIRECTLY AFTER A RAIN EVENT. EROSION CONTROL MEASURES THAT HAVE FAILED SHALL BE REPLACED BY THE CONTRACTOR TO MEET THE APPROVED MATERIAL SUBMITTAL, ALL AT NO ADDITIONAL COST TO SAWS.
31. THE CONTRACTOR SHALL REGRADE AND RESTORE CREEK BEDS, DRAINAGE WAYS AND DITCH LINES TO PRECONSTRUCTION ELEVATIONS-NO MOUNDING OF DIRT. CONTRACTOR TO RESTORE CULTIVATED FIELDS TO EXISTING CONDITION OR TO THE SATISFACTION OF PROPERTY OWNER (NSPI).
32. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY ARBORIST AT 207-0278 FOR GUIDANCE.
33. CONTRACTOR SHALL INSTALL TREE PROTECTION MEASURES FOR BOTH PROJECT LOCATIONS IN ACCORDANCE WITH PROVIDED PLAN SHEETS PRIOR TO COMMENCING WORK. TREE PROTECTION MEASURES SHALL BE PROPERLY MAINTAINED FOR THE LIFE OF THE PROJECT, AND SHALL NOT BE REMOVED UNTIL AUTHORIZED BY SAWS. TREE PROTECTION WILL NOT RECEIVE DIRECT PAYMENT.
34. ANY IRRIGATION LINES DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE BROUGHT BACK INTO SERVICE (NSPI).

3. AS WORK PROGRESSES, LOCATION OF BARRICADES WILL BE ADJUSTED AND MODIFIED, AS NECESSARY BY THE CONTRACTOR.
4. DURING THE COURSE OF THE WORK THE CONTRACTOR SHALL PROVIDE AT ALL TIMES, OPEN ACCESS FOR ALL RESIDENTS AND BUSINESSES WITHIN THE ESTABLISHED AREA OF CONSTRUCTION OPERATIONS. THIS MAY INCLUDE, BUT NOT LIMITED TO, PROVIDING STEEL PLATES AS TEMPORARY TRENCH CROSSINGS AT ENTRANCES TO BUSINESSES OR RESIDENCES. FLAGMEN TO CONTROL THESE CROSSINGS SHALL BE USED AS NECESSARY.
5. ALL TRAFFIC BARRICADES WHICH ARE REQUIRED IN ACCORDANCE WITH THE ESTABLISHED REGULATIONS SHALL HAVE ATTACHED IDENTIFICATION ON BOTH SIDES IN PROMINENT STENCILED LETTERS WITH THE CONTRACTOR'S NAME, LOCAL ADDRESS, AND TELEPHONE NUMBER OR EMERGENCY NUMBER.
6. CONTRACTOR SHALL MAINTAIN AT LEAST ONE OPEN LANE TO TRAFFIC AT ALL TIMES OR PROVIDE ALTERNATE ROUTES OF ACCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING TRAFFIC CONTROL DEVICES CONFORMING TO THE REQUIREMENTS OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AS REQUIRED TO DETOUR TRAFFIC SAFELY AROUND WORK AREA. CONTRACTOR SHALL PROVIDE FLAGMEN AS REQUIRED AND/OR AS DIRECTED BY THE ENGINEER.

ADDITIONAL NOTES

1. CONTRACTOR SHALL NOTIFY EACH USER 5 DAYS IN ADVANCE BEFORE ANY DISCONNECTION OF ANY UTILITY SERVICE IS PERFORMED, IF REQUIRED DUE TO CONSTRUCTION ACTIVITIES. THE DISCONNECTION AND RECONNECTION OF SERVICES SHALL ONLY BE PERFORMED AT NIGHT OR ON WEEKENDS TO MINIMIZE DISRUPTION (NSPI).
2. OPEN CUTTING OR TRENCHING OF THE EXISTING PAVEMENT SHALL BE ALLOWED. ALL PAVEMENT SHALL BE REPLACED AS SHOWN IN THE PLANS. METAL PLATES WILL BE ALLOWED TO COVER TRENCHES LEFT OVERNIGHT BUT SHALL NOT BE USED ON ANY SPECIFIC TRENCH FOR MORE THAN 3 CALENDAR DAYS. HMA C/TY "D" MIX OR APPROVED EQUAL BY THE ENGINEER SHALL BE USED AROUND THE EDGE OF ALL METAL PLATES PLACED IN THE PAVEMENT TO PROVIDE A SMOOTH TRANSITION OVER THE PLATES. COLD MIX ASPHALT WILL NOT BE ALLOWED.



100% SUBMITTAL

GENERAL TRAFFIC NOTES



1. A TRAFFIC CONTROL PLAN (TCP) SHALL BE COMPLETED FOR EVERY PROJECT. IF THE CONTRACTOR CHOOSES TO USE TXDOT OR COSA STANDARDS, THEN PROVIDING A TCP SIGNED BY A TEXAS LICENSED PE IS NOT REQUIRED. SHOULD THE CONTRACTOR CHOOSE TO DEVIATE FROM AVAILABLE TCP STANDARDS, THEN THE CONTRACTOR MUST SUBMIT A DETAILED TCP SIGNED AND SEALED BY A TEXAS LICENSED PE AT NO ADDITIONAL COST TO SAWS.
2. CONTRACTOR SHALL ENSURE TRAFFIC CONTROL SIGNAGE, BARRELS, CONES, ETC. REMAIN IN A SUITABLE CONDITION THROUGHOUT THE LIFE OF THE PROJECT FOR PROTECTION OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. IF IN THE EVENT SAWS, COSA ROW DEPARTMENT, OR CONSULTING ENGINEER DETERMINES TRAFFIC CONTROL MEASURES ARE INSUFFICIENT OR REQUIRE REPLACEMENT, CONTRACTOR SHALL SUPPLY ADDITIONAL TRAFFIC CONTROL MEASURES AT NO ADDITIONAL COST TO SAWS. COST INCURRED BY CONTRACTOR FOR DEVELOPMENT OF SIGNED TCP SHALL BE SUBSIDIARY TO THE ITEMS OF WHICH IT FORMS A COMPONENT PART AND SHALL NOT RECEIVE DIRECT PAYMENT. COST FOR IMPLEMENTATION WILL BE REIMBURSED UNDER COSA ITEM 530.

<b>Lockwood, Andrews &amp; Newnam, Inc.</b> <small>A LEO A DALY COMPANY</small> TBPE REGISTRATION NO: F-2614				
1	NOTE MODIFICATION	HF	SA	8/14/18
No.      Revision      Drawn      Approved      Date				
<b>REVISIONS</b>				
2019 SMP PACKAGE V BERTETTI DR & FEDORA DR GENERAL NOTES				
DEVELOPER: _____ CONT.             BUDGET PROJ.				
SUBMITTED _____ APPROVED _____				
MAP No. _____ SECT. No. _____ DR. IN [CK, SJA]      JOB No. 18-5015				SHEET 4 OF 33

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8/14/2018

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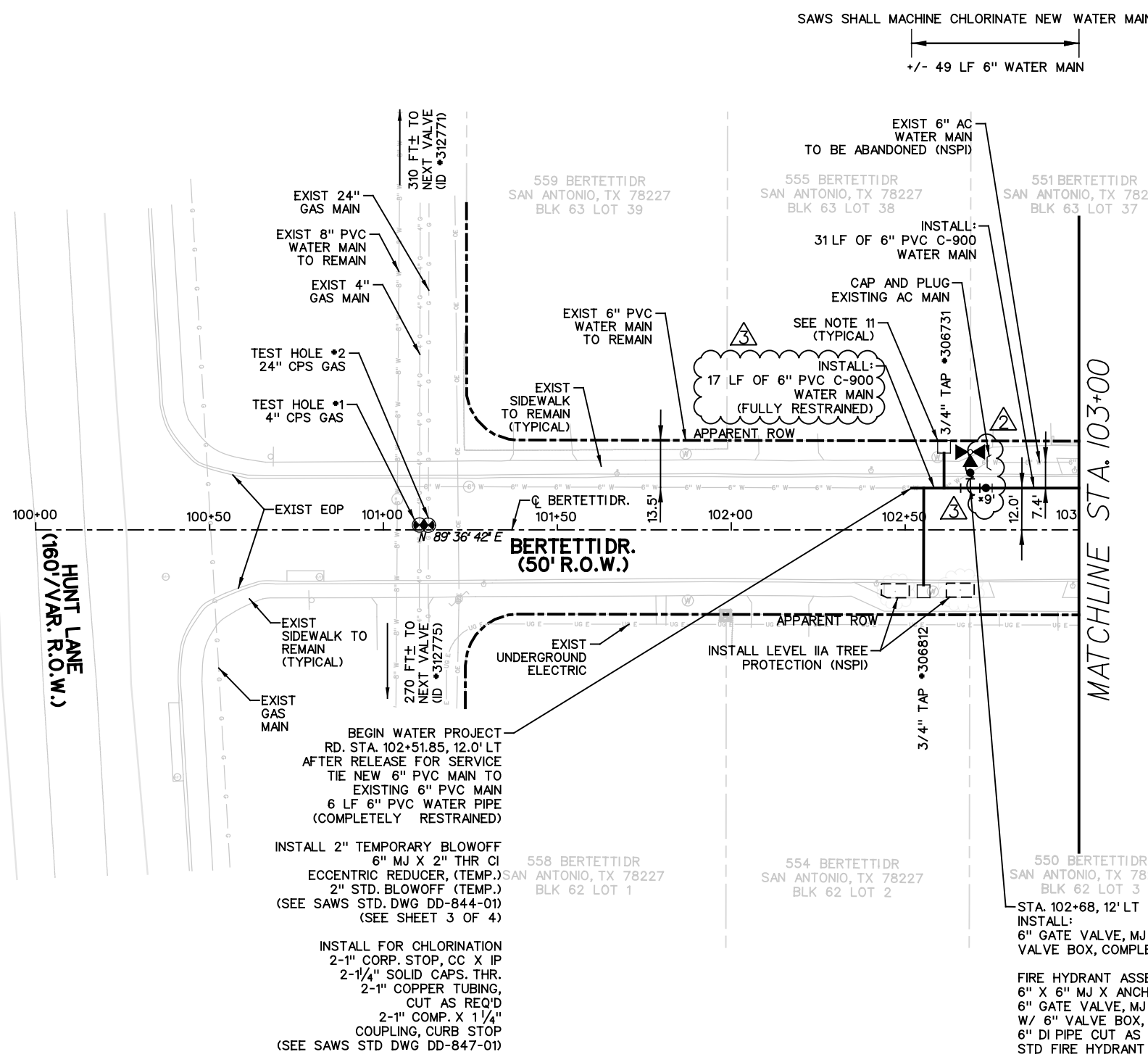
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8/14/2018

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ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
100	MOBILIZATION	EA	1
101	PREPARING RIGHT OF WAY	EA	1
103.1	REMOVE CONCRETE CURB	LF	8
103.3	REMOVE SIDEWALKS AND DRIVEWAYS	SF	54
203.1	TACK COAT	GAL	3
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH)	SY	20
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH)	SY	25
500.1	CONCRETE CURB	LF	8
502.1	CONCRETE SIDEWALKS	SY	6
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	49
818	6" PVC (C900) WATERLINE (RESTRAIN AS REQUIRED) (ALL DEPTHS)	LF	49
824	RELAY 3/4" SHORT SERVICE	EA	1
824	RELAY 3/4" LONG SERVICE	EA	1
824.5	CUSTOMER SHUT-OFF VALVE W/ BOX	EA	2
828	6" GATE VALVE, MJ W/ BOX, COMPLETE	EA	1
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	1
833	NEW METER BOX	EA	2
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	0.2
840	6" WATER TIE-IN	EA	1
841	HYDROSTATIC TESTING	EA	1
844	2" BLOW-OFF, TEMPORARY	EA	1

- NOTES:
- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATION. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK.
  - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND GUY WIRES DURING CONSTRUCTION (NSPI).
  - CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS. PROPERTY LINES SHOWN ARE APPROXIMATE.
  - CONTRACTOR TO PROTECT EXIST SIGNS (NSPI). PROVIDE TEMPORARY SIGNS AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH CONSTRUCTION OF WATER MAIN (NSPI).
  - PRIOR TO TIE-IN'S, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210)233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-IN'S; THIS IS AT NO ADDITIONAL COST TO SAWS OR PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
  - CONTRACTOR TO SET VALVES TO FINAL FINISHED GRADE.
  - CONTRACTOR TO MAINTAIN ACCESS TO ALL VALVES (EXISTING AND PROPOSED) DURING CONSTRUCTION (NSPI).
  - FIRE HYDRANTS TO BE BETWEEN 1 AND 7 FEET FROM CURBS AS PER FIRE CODE.
  - CUSTOMER SHUT OFF VALVES WITH BOX SHALL BE INSTALLED AT THE DISCRETION OF THE SAWS INSPECTOR.

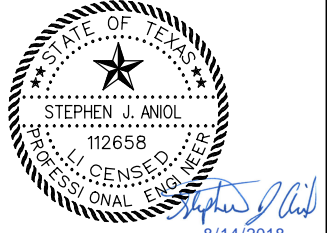
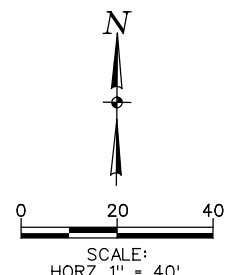


BEGIN WATER PROJECT RD. STA. 102+51.85, 12.0' LT AFTER RELEASE FOR SERVICE TIE NEW 6" PVC MAIN TO EXISTING 6" PVC MAIN 6 LF 6" PVC WATER PIPE (COMPLETELY RESTRAINED)

INSTALL 2" TEMPORARY BLOWOFF 6" MJ X 2" THR CI ECCENTRIC REDUCER, (TEMP.) 2" STD. BLOWOFF (TEMP.) (SEE SAWS STD. DWG DD-844-01) (SEE SHEET 3 OF 4)

INSTALL FOR CHLORINATION 2-1" CORP. STOP, CC X IP 2-1/4" SOLID CAPS, THR. 2-1" COPPER TUBING, CUT AS REQ'D 2-1" COMP. X 1/4" COUPLING, CURB STOP (SEE SAWS STD DWG DD-847-01)

FIRE HYDRANT ASSEMBLY: 6" X 6" MJ X ANCHOR TEE 6" GATE VALVE, MJ W/ 6" VALVE BOX, COMPLETE 6" DI PIPE CUT AS REQ'D STD FIRE HYDRANT (SEE SAWS STD. DWG DD-834-01)



100% SUBMITTAL

LEGEND

PROP. WATER MAIN	—●—
EXIST. WATER MAIN	—○—
GAS MAIN	—●—
SANITARY SEWER	—○—
STORM SEWER	—○—
UTILITY POLE LINE	—●—
ELECTRIC CABLE	—●—
TELEPHONE CABLE	—●—
DUAL BRANCH SERV.	—●—
NEW UNMETERED SERVICE:	
3/4" SINGLE	—●—
1" DUAL	—●—
SERVICE RECONNECT:	
3/4"	—●—
1" OR LARGER	—●—
SERVICE RELAY:	
3/4"	—●—
1" OR LARGER	—●—
SERVICE RELOCATE:	
3/4"	—●—
1" OR LARGER	—●—
RELOCATE METER	—●—
RELAY METER	—●—
NEW SERVICE:	
3/4"	—●—
1" OR LARGER	—●—

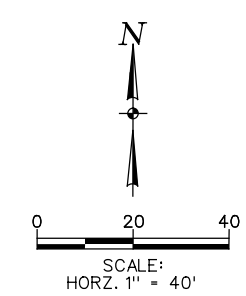
LEGEND X RESTRAINED LENGTH

<b>Lockwood, Andrews &amp; Newnam, Inc.</b>				
A LEAD & QUALITY COMPANY				
TBPE REGISTRATION NO: F-2614				
2	ADJUSTED CAP/PLUG	HF	SA	8/14/18
3	RESTRAINED LENGTH	HF	SA	8/14/18
No.	Revision	Drawn	Approved	Date
REVISIONS				
<b>2019 SMP PACKAGE V BERTETTI DR &amp; FEDORA DR BERTETTI DR PLAN SHEET BEGIN TO STA 103+00</b>				
DEVELOPER:		BUDGET PROJ.		
CONT.		BUDGET PROJ.		
SUBMITTED				
APPROVED				
MAP No. 106568 & 108568				
SECT. No.		SHEET 17 OF 33		
DR. IN	CK. SJA	JOB No. 18-5015		



		ESTIMATED QUANTITIES	
ITEM	DESCRIPTION	UNIT	QTY
203.1	TACK COAT	GAL	21
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH)	SY	160
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH)	SY	205
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	400
818	6" PVC (C900) WATERLINE (RESTRAIN AS REQUIRED) (ALL DEPTHS)	LF	400
824	RELAY 3/4" SHORT SERVICE	EA	6
824	RELAY 3/4" LONG SERVICE	EA	6
824.5	CUSTOMER SHUT-OFF VALVE W/ BOX	EA	12
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	6
833	NEW METER BOX	EA	12

- NOTES:
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100% SUBMITTAL

STEPHEN J. ANIOL  
112658  
PROFESSIONAL ENGINEER  
8/14/2018

**Lockwood, Andrews & Newnam, Inc.**  
A LEO A DALY COMPANY  
TBPE REGISTRATION NO: F-2614

No.	Revision	Drawn	Approved	Date

**REVISIONS**

2019 SMP PACKAGE V  
BERTETTI DR & FEDORA DR  
BERTETTI DR PLAN SHEET  
STA 103+00 TO STA 107+00

DEVELOPER: \_\_\_\_\_  
CONT. \_\_\_\_\_ BUDGET PROJ. \_\_\_\_\_

SUBMITTED \_\_\_\_\_  
APPROVED \_\_\_\_\_

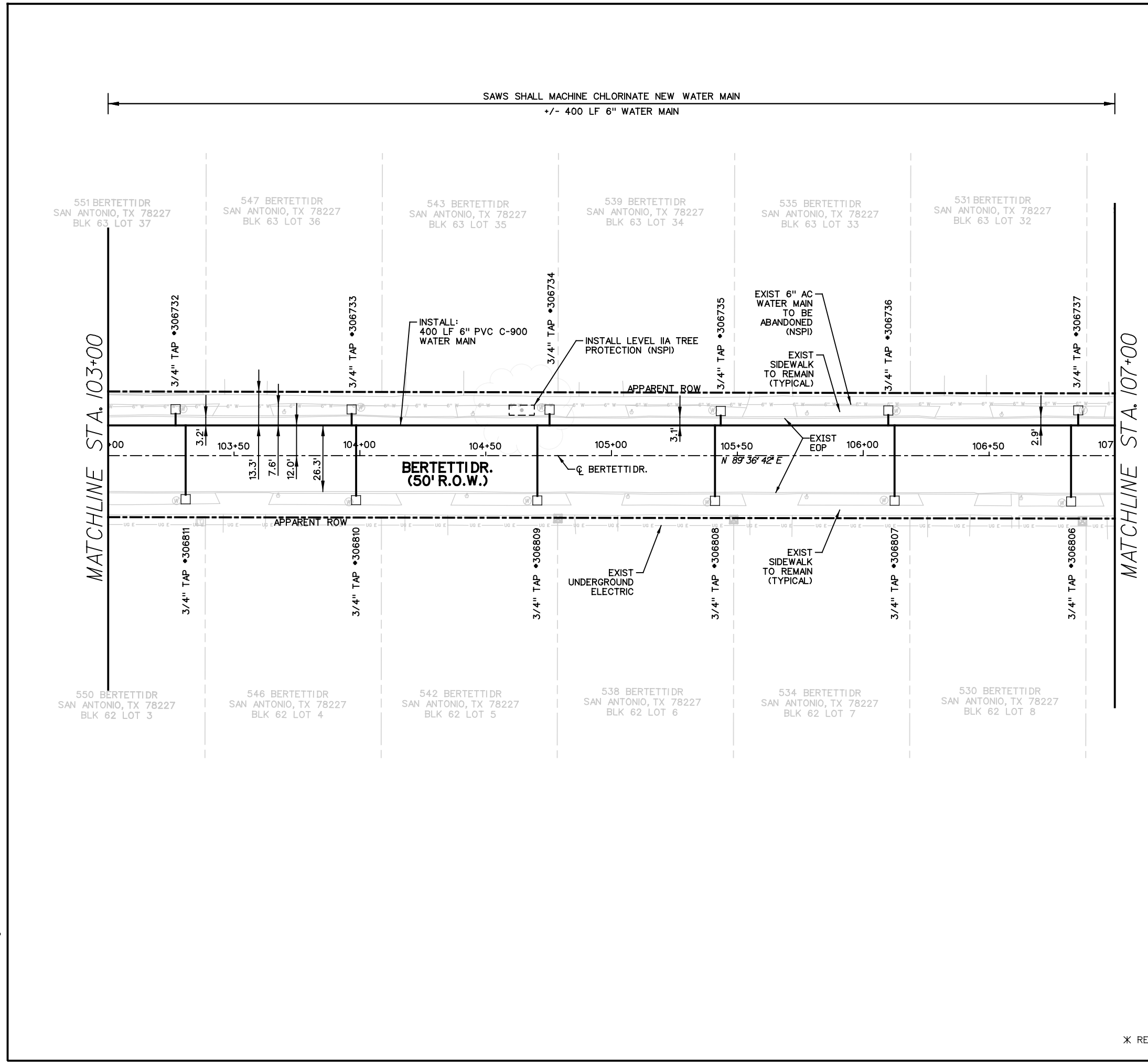
MAP No. 106568 & 108568  
SECT. No. \_\_\_\_\_  
DR. IN [CK, SJA] JOB No. 18-5015

SHEET 18 OF 33

**LEGEND**

PROP. WATER MAIN	
EXIST. WATER MAIN	
GAS MAIN	
SANITARY SEWER	
STORM SEWER	
UTILITY POLE LINE	
ELECTRIC CABLE	
TELEPHONE CABLE	
DUAL BRANCH SERV.	
NEW UNMETERED SERVICE:	
3/4" SINGLE	
1" DUAL	
SERVICE RECONNECT:	
3/4"	
1" OR LARGER	
SERVICE RELAY:	
3/4"	
1" OR LARGER	
SERVICE RELOCATE:	
3/4"	
1" OR LARGER	
RELOCATE METER	
RELAY METER	
NEW SERVICE:	
3/4"	
1" OR LARGER	

X RESTRAINED LENGTH



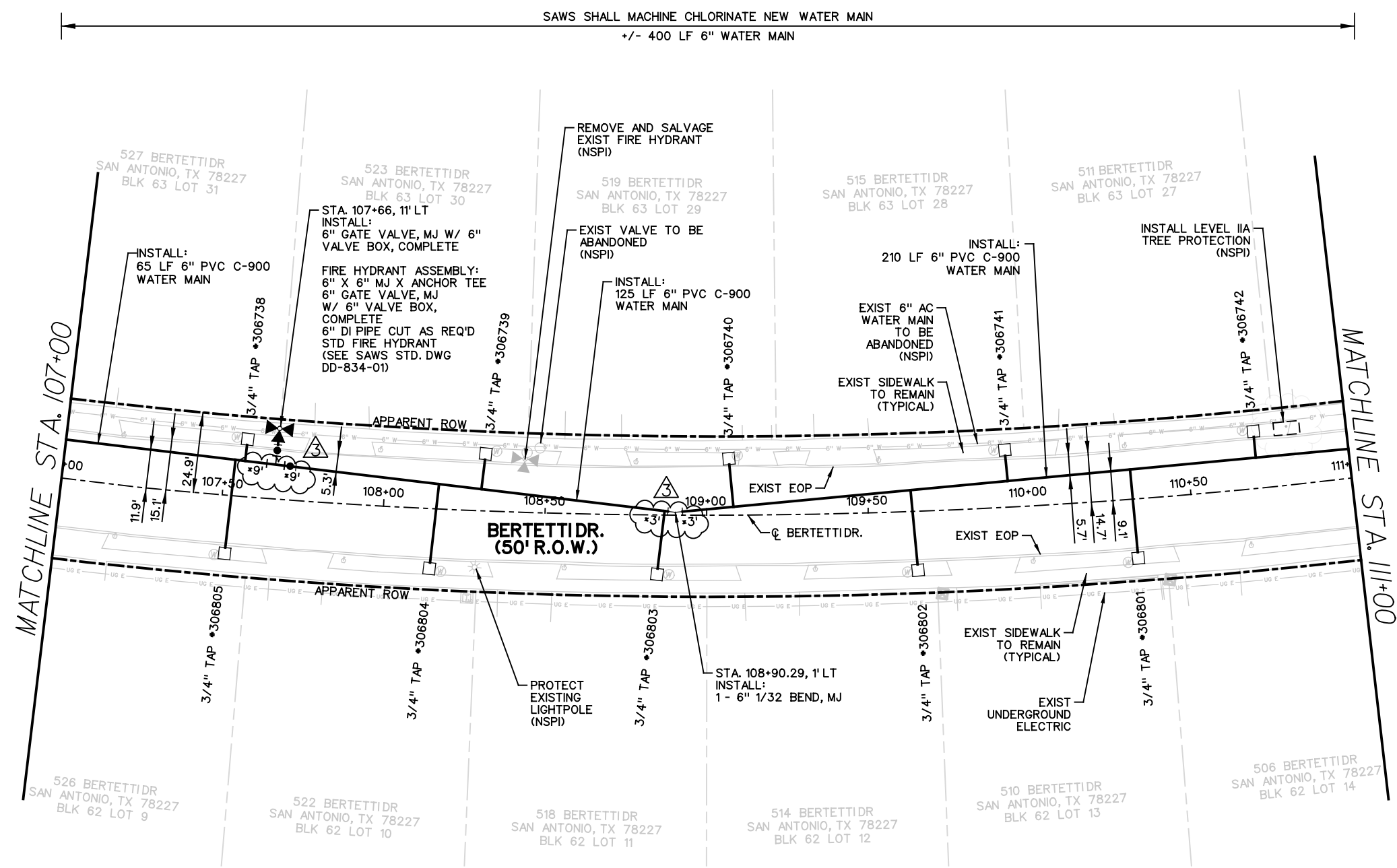
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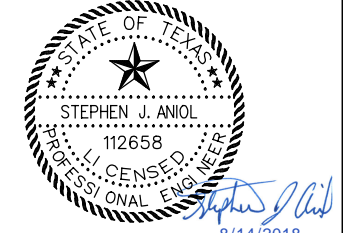
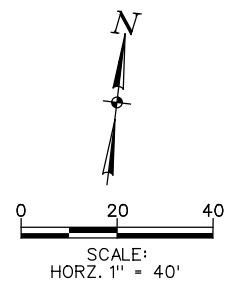
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ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.1	REMOVE CONCRETE CURB	LF	8
103.3	REMOVE SIDEWALKS AND DRIVEWAYS	SF	54
203.1	TACK COAT	GAL	21
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH)	SY	160
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH)	SY	205
500.1	CONCRETE CURB	LF	8
502.1	CONCRETE SIDEWALKS	SY	6
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	400
818	6" PVC (C900) WATERLINE (RESTRAIN AS REQUIRED) (ALL DEPTHS)	LF	400
824	RELAY 3/4" SHORT SERVICE	EA	5
824	RELAY 3/4" LONG SERVICE	EA	5
824.5	CUSTOMER SHUT-OFF VALVE W/ BOX	EA	10
828	6" GATE VALVE, MJ W/ BOX, COMPLETE	EA	1
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	5
833	NEW METER BOX	EA	10
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	0.1



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100% SUBMITTAL

LEGEND

PROP. WATER MAIN	
EXIST. WATER MAIN	
GAS MAIN	
SANITARY SEWER	
STORM SEWER	
UTILITY POLE LINE	
ELECTRIC CABLE	
TELEPHONE CABLE	
DUAL BRANCH SERV.	
NEW UNMETERED SERVICE:	
3/4" SINGLE	
1" DUAL	
SERVICE RECONNECT:	
3/4"	
1" OR LARGER	
SERVICE RELAY:	
3/4"	
1" OR LARGER	
SERVICE RELOCATE:	
3/4"	
1" OR LARGER	
RELOCATE METER	
RELAY METER	
NEW SERVICE:	
3/4"	
1" OR LARGER	

LEGEND  
X RESTRAINED LENGTH

**Lockwood, Andrews & Newnam, Inc.**  
A LEO A DALY COMPANY  
TBPE REGISTRATION NO: F-2614

3	RESTRAINED LENGTH	HF	SA	8/14/18
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No. Revision Drawn Approved Date

REVISIONS

**2019 SMP PACKAGE V  
BERTETTI DR & FEDORA DR  
BERTETTI DR PLAN SHEET  
STA 107+00 TO STA 111+00**

DEVELOPER: [ ]  
CONT. [ ] BUDGET PROJ. [ ]

SUBMITTED [ ]  
APPROVED [ ]

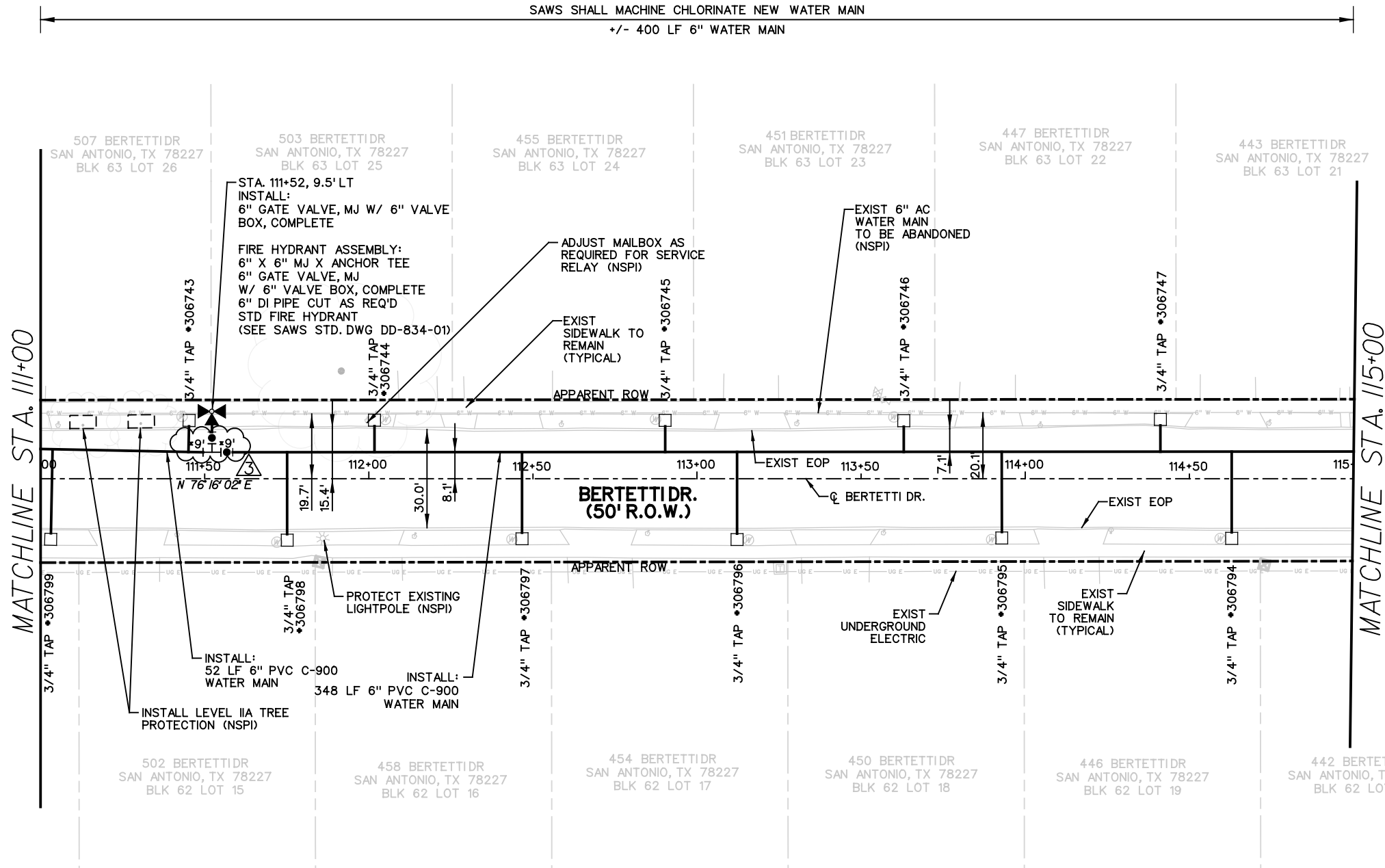
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SECT. No. [ ]  
DR. IN [ ] CK. SJA [ ] JOB No. 18-5015

SHEET 19 OF 33



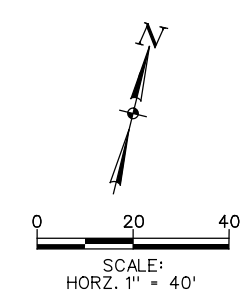
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ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.1	REMOVE CONCRETE CURB	LF	8
103.3	REMOVE SIDEWALKS AND DRIVEWAYS	SF	54
203.1	TACK COAT	GAL	21
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH)	SY	160
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH)	SY	205
500.1	CONCRETE CURB	LF	8
502.1	CONCRETE SIDEWALKS	SY	6
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	400
818	6" PVC (C900) WATERLINE (RESTRAIN AS REQUIRED) (ALL DEPTHS)	LF	400
824	RELAY 3/4" SHORT SERVICE	EA	5
824	RELAY 3/4" LONG SERVICE	EA	6
824.5	CUSTOMER SHUT-OFF VALVE W/ BOX	EA	11
828	6" GATE VALVE, MJ W/ BOX, COMPLETE	EA	1
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	6
833	NEW METER BOX	EA	11
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	0.1

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100% SUBMITTAL

STEPHEN J. ANIOL  
112658  
PROFESSIONAL ENGINEER  
8/14/2018

**LEGEND**

PROP. WATER MAIN	
EXIST. WATER MAIN	
GAS MAIN	
SANITARY SEWER	
STORM SEWER	
UTILITY POLE LINE	
ELECTRIC CABLE	
TELEPHONE CABLE	
DUAL BRANCH SERV.	
NEW UNMETERED SERVICE:	
3/4" SINGLE	
1" DUAL	
SERVICE RECONNECT:	
3/4"	
1" OR LARGER	
SERVICE RELAY:	
3/4"	
1" OR LARGER	
SERVICE RELOCATE:	
3/4"	
1" OR LARGER	
RELOCATE METER	
RELAY METER	
NEW SERVICE:	
3/4"	
1" OR LARGER	

X RESTRAINED LENGTH

**Lockwood, Andrews & Newnam, Inc.**  
A LEO A DALY COMPANY  
TBE REGISTRATION NO: F-2614

3	RESTRAINED LENGTH	HF	SA	8/14/18
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No. Revision Drawn Approved Date

**REVISIONS**

**2019 SMP PACKAGE V  
BERTETTI DR & FEDORA DR  
BERTETTI DR PLAN SHEET  
STA 111+00 TO STA 115+00**

DEVELOPER: [Signature]  
CONT. [Signature] BUDGET PROJ.  
SUBMITTED [Signature]  
APPROVED [Signature]

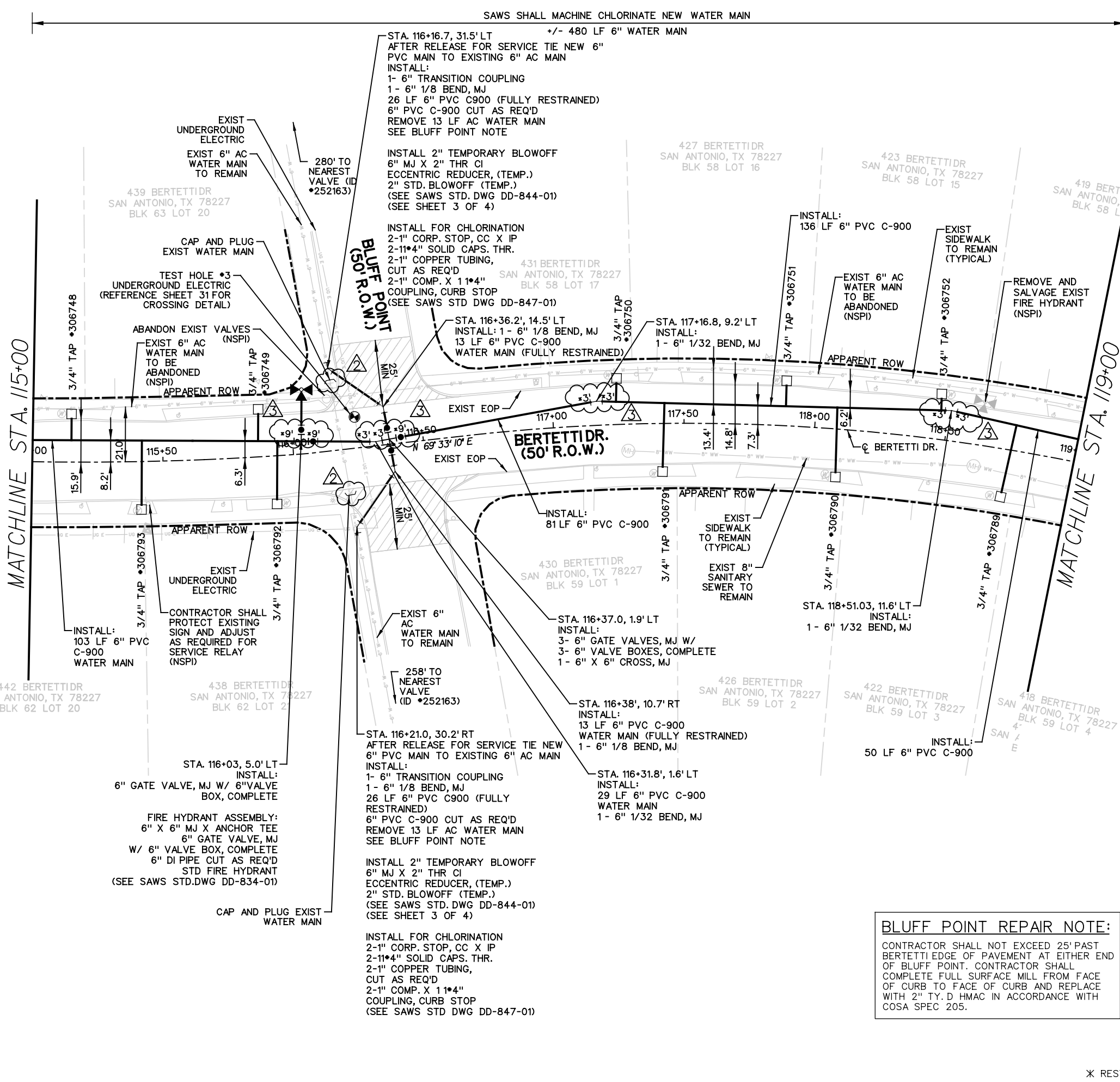
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DR. IN [Blank] CK. SJA JOB No. 18-5015

SHEET 20 OF 33

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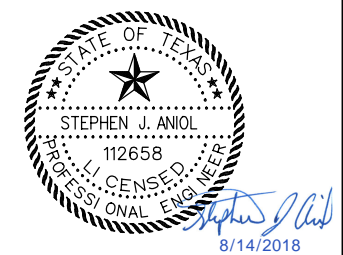
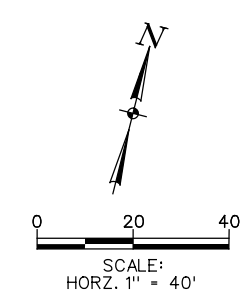
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ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
103.1	REMOVE CONCRETE CURB	LF	24
103.3	REMOVE SIDEWALKS AND DRIVEWAYS	SF	43
203.1	TACK COAT	GAL	23
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (10" COMP DEPTH)	SY	190
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP DEPTH)	SY	425
208.1	SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2 INCH DEPTH)	SY	200
500.1	CONCRETE CURB	LF	24
502.1	CONCRETE SIDEWALKS	SY	12
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	480
818	6" PVC (C900) WATERLINE (FULLY RESTRAINED) (ALL DEPTHS)	LF	80
818	6" PVC (C900) WATERLINE (RESTRAIN AS REQUIRED) (ALL DEPTHS)	LF	400
824	RELAY 3/4" SHORT SERVICE	EA	5
824	RELAY 3/4" LONG SERVICE	EA	5
824.5	CUSTOMER SHUT-OFF VALVE W/ BOX	EA	10
828	6" GATE VALVE, MJ W/ BOX, COMPLETE	EA	4
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	5
833	NEW METER BOX	EA	10
834.1	FIRE HYDRANT	EA	1
836	PIPE FITTINGS (ALL SIZES & TYPES)	TN	0.6
840	6" WATER TIE-IN	EA	2
841	HYDROSTATIC TESTING	EA	1
844	2" BLOW-OFF, TEMPORARY	EA	2
3000	REMOVAL, TRANSPORTATION, AND DISPOSAL OF AC PIPE	LF	26

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100% SUBMITTAL

**BLUFF POINT REPAIR NOTE:**  
CONTRACTOR SHALL NOT EXCEED 25' PAST BERTETTI EDGE OF PAVEMENT AT EITHER END OF BLUFF POINT. CONTRACTOR SHALL COMPLETE FULL SURFACE MILL FROM FACE OF CURB TO FACE OF CURB AND REPLACE WITH 2" TY. D HMAC IN ACCORDANCE WITH COSA SPEC 205.

**LEGEND**

PROP. WATER MAIN	—●—
EXIST. WATER MAIN	—○—
GAS MAIN	—○—
SANITARY SEWER	—○—
STORM SEWER	—○—
UTILITY POLE LINE	—○—
ELECTRIC CABLE	—○—
TELEPHONE CABLE	—○—
DUAL BRANCH SERV.	—○—
NEW UNMETERED SERVICE:	
3/4" SINGLE	—
1" DUAL	—
SERVICE RECONNECT:	
3/4"	—
1" OR LARGER	—
SERVICE RELAY:	
3/4"	—
1" OR LARGER	—
SERVICE RELOCATE:	
3/4"	—
1" OR LARGER	—
RELOCATE METER	—
RELAY METER	—
NEW SERVICE:	
3/4"	—
1" OR LARGER	—

LOCKWOOD, ANDREWS & NEWNAM, INC.				
A LEO A DALY COMPANY				
TBPE REGISTRATION NO: F-2614				
2	ADJUSTED CAP/PLUG	HF	SA	8/14/18
3	RESTRAINED LENGTH	HF	SA	8/14/18
REVISIONS				
No.	Revision	Drawn	Approved	Date
2019 SMP PACKAGE V BERTETTI DR & FEDORA DR BERTETTI DR PLAN SHEET STA 115+00 TO STA 119+00				
DEVELOPER:		BUDGET PROJ.		
CONT.		SUBMITTED		
APPROVED		MAP No. 106568 & 108568		
SECT. No.		SHEET 21		
DR. IN [CK, SJA]		JOB No. 18-5015		
		OF 33		

LEGEND  
X RESTRAINED LENGTH





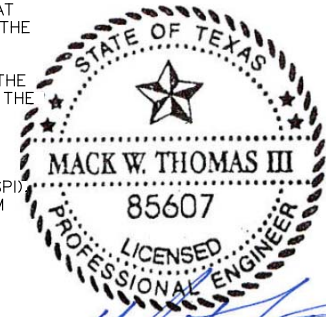
SAWS SHALL MACHINE CHLORINATE NEW WATER MAIN

+/- 400 LF 8" WATER MAIN

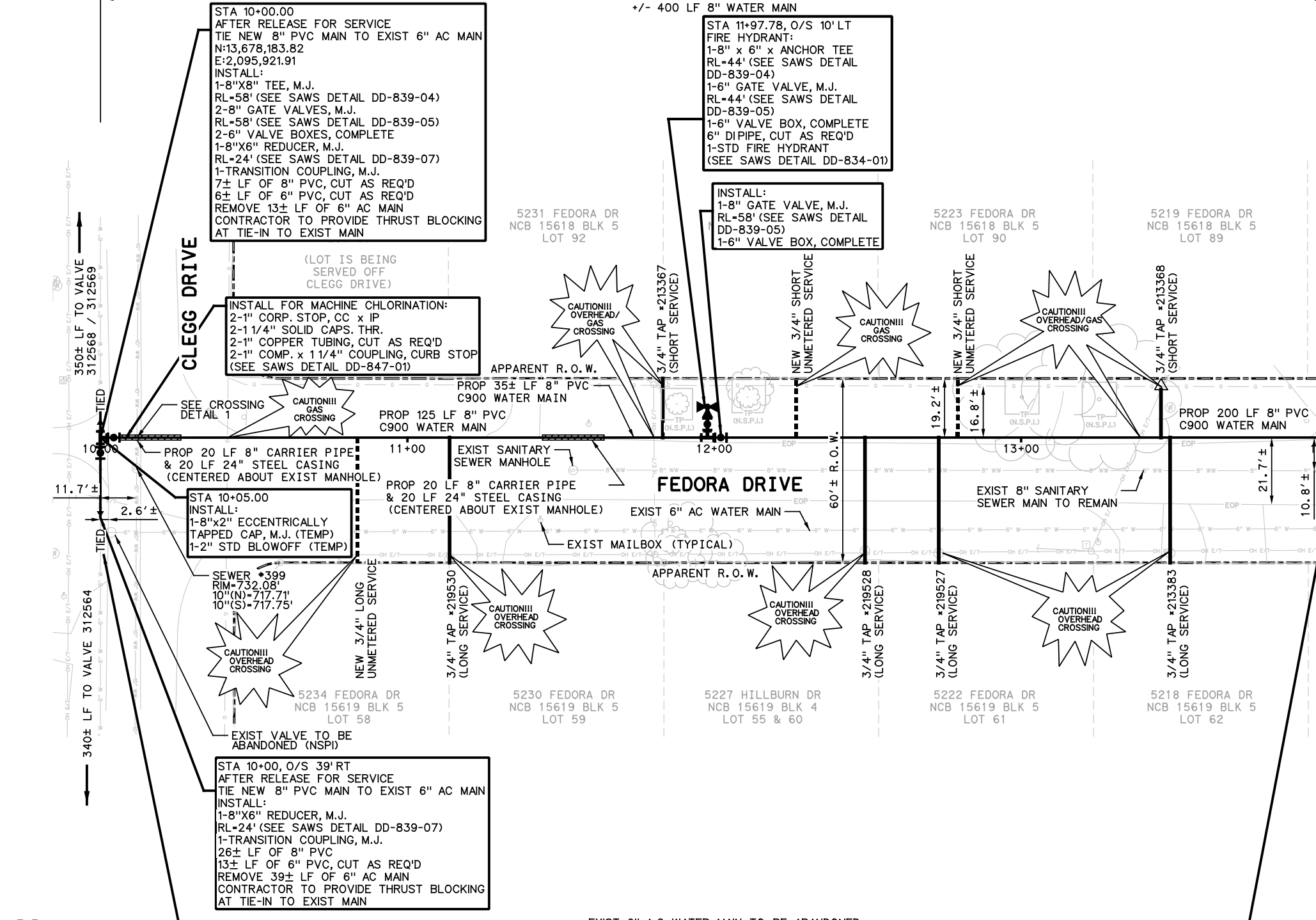
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203	TACK COAT	GAL	24
205	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMP. DEPTH) (COSA SPECIFICATION)	SY	188
205	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMP. DEPTH) (COSA SPECIFICATION)	SY	238
413	FLOWABLE FILL	CY	138
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	452
818	6" PVC WATERLINE (RESTRAINED)	LF	19
818	8" PVC WATERLINE (RESTRAINED)	LF	393
824	RELAY 3/4" SHORT SERVICE	EA	2
824	RELAY 3/4" LONG SERVICE	EA	4
824	NEW 3/4" SHORT UNMETERED SERVICE	EA	2
824	NEW 3/4" LONG UNMETERED SERVICE	EA	1
824.5	CUSTOMER SHUTOFF VALVE W/ BOX	EA	9
828	8" GATE VALVE, M.J. W/ BOX, COMPLETE	EA	3
833	NEW METER BOX	EA	9
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	5
834.3	FIRE HYDRANT ASSEMBLY	EA	1
836	PIPE FITTINGS, ALL SIZES & TYPES	TON	0.2
840	6" WATER TIE-IN	EA	2
844	2" BLOW-OFF, TEMPORARY	EA	1
856	8" CARRIER PIPE	LF	40
856	24" STEEL CASING	LF	40
3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF VARIOUS SIZES OF A.C. PIPE	LF	52

NOTES:

- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATION.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND GUY WIRES DURING CONSTRUCTION (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS. PROPERTY LINES SHOWN ARE APPROXIMATE.
- CONTRACTOR TO PROTECT EXIST SIGNS (NSPI).
- PROVIDE TEMPORARY SIGNS AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH CONSTRUCTION OF WATER MAIN (NSPI).
- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210)233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- CONTRACTOR TO SET VALVES TO FINAL FINISHED GRADE.
- CONTRACTOR TO MAINTAIN ACCESS TO ALL VALVES (EXISTING AND PROPOSED) DURING CONSTRUCTION (NSPI).
- FIRE HYDRANTS TO BE BETWEEN 1 AND 7 FEET FROM CURBS AS PER FIRE CODE.
- SEE SHEET 31, SPECIAL DETAILS SHEET 1, FOR TRENCH DETAIL FOR LOCATIONS UNDER EXISTING PAVEMENT (FEDORA DRIVE).



100% SUBMITTAL



AT&T: EXIST 6" A.C. WATER MAIN TO BE ABANDONED & CAPPED/PLUGGED (NSPI) (SEE AC PIPE NOTE)

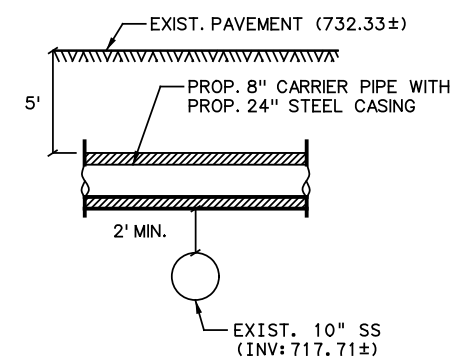
THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR IS TO CONTACT THE TELEPHONE COMPANY LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

**ASBESTOS CEMENT PIPE CONNECTIONS & REMOVAL NOTE:**

ASBESTOS CEMENT (A.C.) PIPE, ALSO KNOWN AS TRANSITE PIPE AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM), IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH SAFETY REQUIREMENTS ARE APPLICABLE WHEN HAULING, REMOVING, AND DISPOSING OF THIS PIPE OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

**TRENCH EXCAVATION 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 SYSTEM, 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.



CROSSING DETAIL 1  
N. T. S.

- NOTE:
- IF REQUIRED, CONTRACTOR IS TO REMOVE & REPLACE MAILBOXES TO THEIR ORIGINAL LOCATION, AND IN SAME OR BETTER CONDITION (NSPI).



SCALE: 1" = 40'

**LEGEND**

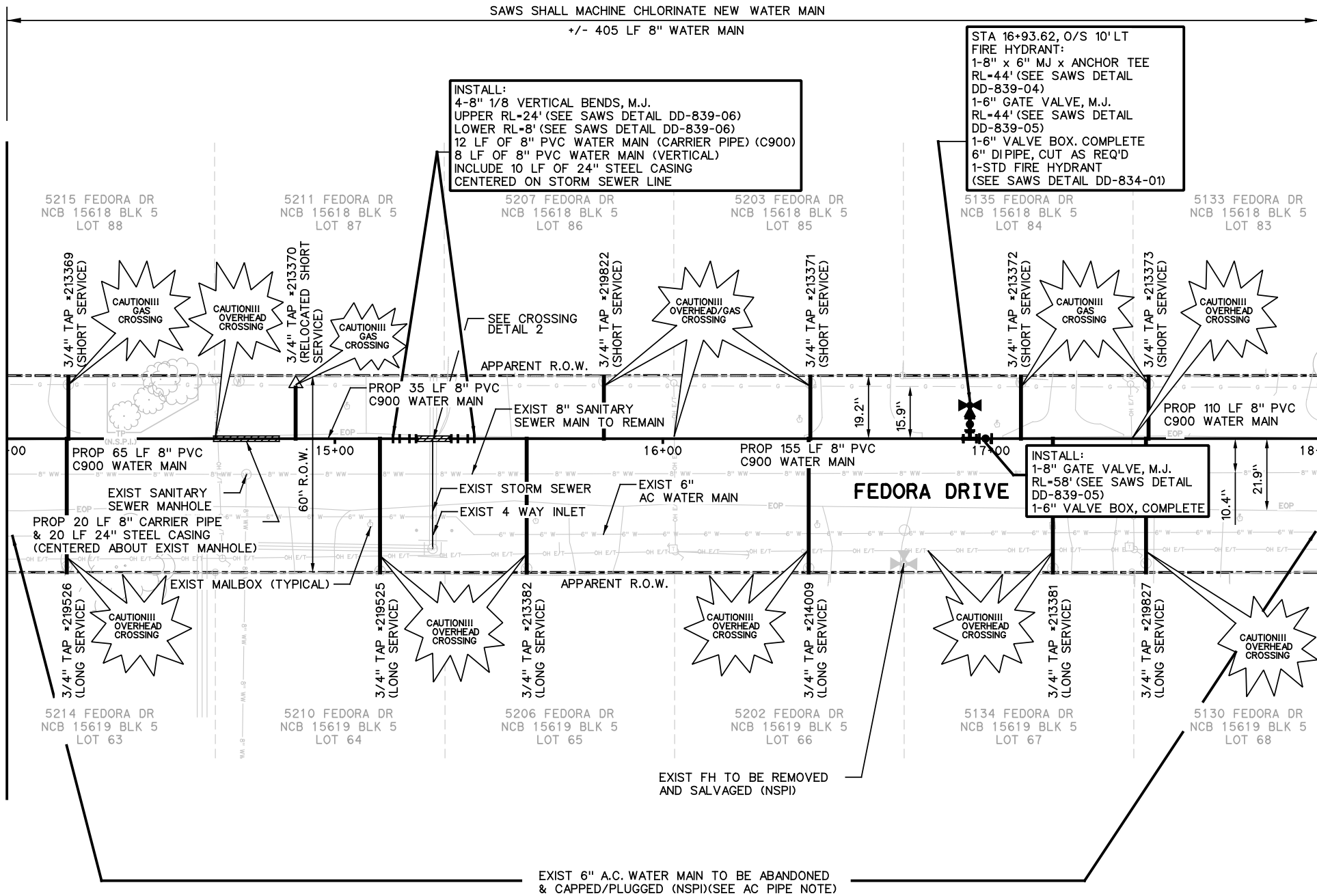
PROP. WATER MAIN	—●—
EXIST. WATER MAIN	—○—
GAS MAIN	—○—
SANITARY SEWER	—○—
STORM SEWER	—○—
UTILITY POLE LINE	—○—
ELECTRIC CABLE	—○—
TELEPHONE CABLE	—○—
DUAL BRANCH SERV. NEW UNMETERED SERVICE:	
3/4" SINGLE	—●—
1" DUAL	—●—
SERVICE RECONNECT:	
3/4"	—●—
1" OR LARGER	—●—
SERVICE RELAY:	
3/4"	—●—
1" OR LARGER	—●—
SERVICE RELOCATE:	
3/4"	—●—
1" OR LARGER	—●—
RELOCATE METER	—○—
RELAY METER	—○—
NEW SERVICE:	
3/4"	—●—
1" OR LARGER	—●—

4800 FREDERICKSBURG RD. SUITE 3000 SAN ANTONIO, TX 78229 P: (210) 349-4000 F: (210) 349-4481 TOLL FREE: 1-800-551-1922				
No.	Revision	Drawn	Approved	Date
REVISIONS				
2019 SMP PACKAGE V BERTETTI DR & FEDORA DR FEDORA WATER PLAN OI FROM START TO 14+00				
DEVELOPER:		BUDGET PROJ.		
CONT.				
SUBMITTED				
APPROVED				
MAP No. 106568 & 108568		SHEET 27 OF 33		
DR. IN	CK. SJA	JOB No. 18-5015		

8/13/2018 8:37:45 PM

MATCHLINE STA. 14+00

MATCHLINE STA. 18+00



INSTALL:  
 4-8" 1/8 VERTICAL BENDS, M.J.  
 UPPER RL=24' (SEE SAWS DETAIL DD-839-06)  
 LOWER RL=8' (SEE SAWS DETAIL DD-839-06)  
 12 LF OF 8" PVC WATER MAIN (CARRIER PIPE) (C900)  
 8 LF OF 8" PVC WATER MAIN (VERTICAL)  
 INCLUDE 10 LF OF 24" STEEL CASING  
 CENTERED ON STORM SEWER LINE

STA 16+93.62, O/S 10' LT  
 FIRE HYDRANT:  
 1-8" x 6" MJ x ANCHOR TEE  
 RL=44' (SEE SAWS DETAIL DD-839-04)  
 1-6" GATE VALVE, M.J.  
 RL=44' (SEE SAWS DETAIL DD-839-05)  
 1-6" VALVE BOX, COMPLETE  
 6" DI PIPE, CUT AS REQ'D  
 1-STD FIRE HYDRANT  
 (SEE SAWS DETAIL DD-834-01)

INSTALL:  
 1-8" GATE VALVE, M.J.  
 RL=58' (SEE SAWS DETAIL DD-839-05)  
 1-6" VALVE BOX, COMPLETE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203	TACK COAT	GAL	22
205	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMP. DEPTH) (COSA SPECIFICATION)	SY	167
205	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMP. DEPTH) (COSA SPECIFICATION)	SY	211
413	FLOWABLE FILL	CY	122
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	405
818	8" PVC WATERLINE (RESTRAINED)	LF	373
822	SHORT YARD PIPING	LF	35
824	RELAY 3/4" SHORT SERVICE	EA	5
824	RELAY 3/4" LONG SERVICE	EA	6
824	RELOCATE 3/4" SHORT SERVICE	EA	1
824.5	CUSTOMER SHUTOFF VALVE W/ BOX	EA	12
828	8" GATE VALVE, M.J. W/ BOX, COMPLETE	EA	1
833	NEW METER BOX	EA	12
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	6
834	FIRE HYDRANT ASSEMBLY	EA	1
836	PIPE FITTINGS, ALL SIZES & TYPES	TON	0.31
856	8" CARRIER PIPE	LF	32
856	24" STEEL CASING	LF	42

NOTES:

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- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND GUY WIRES DURING CONSTRUCTION (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS. PROPERTY LINES SHOWN ARE APPROXIMATE.
- CONTRACTOR TO PROTECT EXIST SIGNS (NSPI). PROVIDE TEMPORARY SIGNS AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH CONSTRUCTION OF WATER MAIN (NSPI).
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- CONTRACTOR TO SET VALVES TO FINAL FINISHED GRADE.
- CONTRACTOR TO MAINTAIN ACCESS TO ALL VALVES (EXISTING AND PROPOSED) DURING CONSTRUCTION (NSPI).
- FIRE HYDRANTS TO BE BETWEEN 1 AND 7 FEET FROM CURBS AS PER FIRE CODE.
- SEE SHEET 31, SPECIAL DETAILS SHEET 1, FOR TRENCH DETAIL FOR LOCATIONS UNDER EXISTING PAVEMENT (FEDORA DRIVE).



8.13.18

100% SUBMITTAL

SCALE: 1" = 40'

AT&T:

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR IS TO CONTACT THE TELEPHONE COMPANY LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

ASBESTOS CEMENT PIPE CONNECTIONS & REMOVAL NOTE:

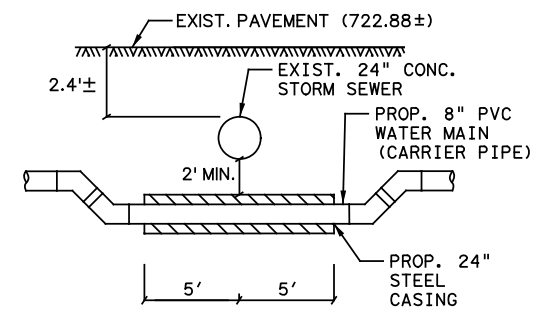
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NOTE:

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CROSSING DETAIL 2

N. T. S.

LEGEND

PROP. WATER MAIN	—●—
EXIST. WATER MAIN	—○—
GAS MAIN	—○—
SANITARY SEWER	—○—
STORM SEWER	—○—
UTILITY POLE LINE	—○—
ELECTRIC CABLE	—○—
TELEPHONE CABLE	—○—
DUAL BRANCH SERV. NEW UNMETERED SERVICE:	
3/4" SINGLE	—
1" DUAL	—
SERVICE RECONNECT:	
3/4"	—
SERVICE RELAY:	
3/4"	—
1" OR LARGER	—
SERVICE RELOCATE:	
3/4"	—
1" OR LARGER	—
RELOCATE METER	—
RELAY METER	—
NEW SERVICE:	
3/4"	—
1" OR LARGER	—

No.	Revision
<p>2019 SMP PACKAGE V          BERTETTI DR &amp; FEDORA DR          WATER PLAN 02          FROM STA 14+00 TO 18+00</p>	
DEVELOPER:	BUDGET PROJ.
SUBMITTED	
APPROVED	
MAP No. 106568 & 108568	SHEET 28
DR. IN [CK, SJA]	JOB No. 18-5015
	OF 33

... \B\LAN002 FEDORA DR\_CD-WL02.dgn

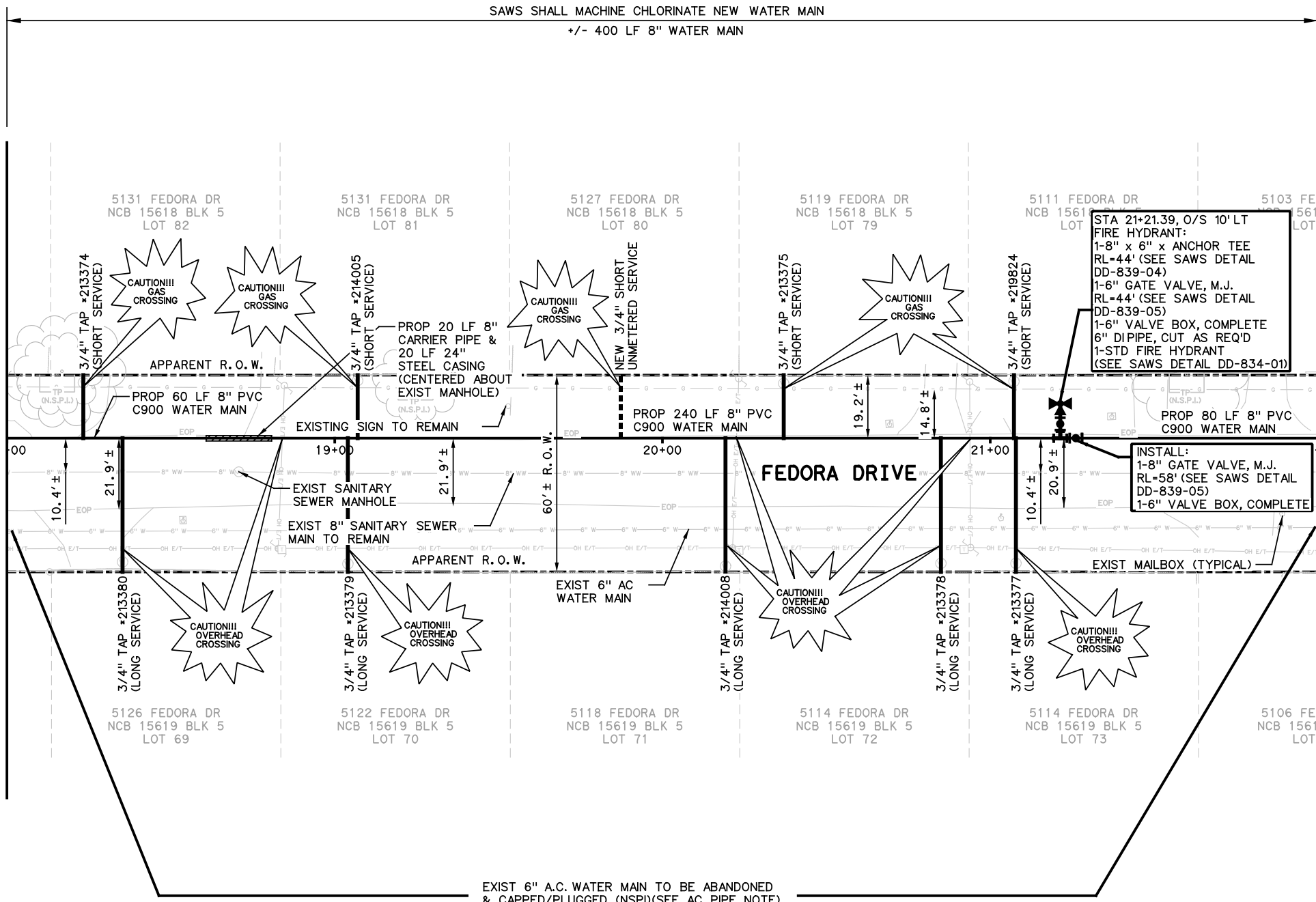


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... \B\LAN002 FEDORA DR.-GD-WL03.dgn

MATCHLINE STA. 18+00

MATCHLINE STA. 22+00



ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203	TACK COAT	GAL	22
205	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMP. DEPTH) (COSA SPECIFICATION)	SY	167
205	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMP. DEPTH) (COSA SPECIFICATION)	SY	211
413	FLOWABLE FILL	CY	122
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	400
818	8" PVC WATERLINE (RESTRAINED)	LF	380
824	RELAY 3/4" SHORT SERVICE	EA	4
824	RELAY 3/4" LONG SERVICE	EA	5
824	NEW 3/4" SHORT UNMETERED SERVICE	EA	1
824.5	CUSTOMER SHUTOFF VALVE W/ BOX	EA	10
828	8" GATE VALVE, M.J. W/ BOX, COMPLETE	EA	1
833	NEW METER BOX	EA	10
833	EXISTING METER AND NEW METER BOX RELOCATION	EA	5
834	FIRE HYDRANT ASSEMBLY	EA	1
856	8" CARRIER PIPE	LF	20
856	24" STEEL CASING	LF	20

NOTES:

- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATION. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND GUY WIRES DURING CONSTRUCTION (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
- PROPERTY LINES SHOWN ARE APPROXIMATE. CONTRACTOR TO PROTECT EXIST SIGNS (NSPI). PROVIDE TEMPORARY SIGNS AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH CONSTRUCTION OF WATER MAIN (NSPI).
- PRIOR TO TIE-IN'S, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210)233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-IN'S; THIS IS AT NO ADDITIONAL COST TO SAWS OR PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- CONTRACTOR TO SET VALVES TO FINAL FINISHED GRADE.
- CONTRACTOR TO MAINTAIN ACCESS TO ALL VALVES (EXISTING AND PROPOSED) DURING CONSTRUCTION (NSPI).
- FIRE HYDRANTS TO BE BETWEEN 1 AND 7 FEET FROM CURBS AS PER FIRE CODE.
- SEE SHEET 31, SPECIAL DETAILS SHEET 1, FOR TRENCH DETAIL FOR LOCATIONS UNDER EXISTING PAVEMENT (FEDORA DRIVE).



*Mack W. Thomas III*  
8.13.18

100% SUBMITTAL

SCALE: 1" = 40'

AT&T:

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR IS TO CONTACT THE TELEPHONE COMPANY LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

ASBESTOS CEMENT PIPE CONNECTIONS & REMOVAL NOTE:

ASBESTOS CEMENT (A.C.) PIPE, ALSO KNOWN AS TRANSITE PIPE AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM), IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

TRENCH EXCAVATION PROTECTION:

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NOTE:

- IF REQUIRED, CONTRACTOR IS TO REMOVE & REPLACE MAILBOXES TO THEIR ORIGINAL LOCATION, AND IN SAME OR BETTER CONDITION (NSPI).

LEGEND

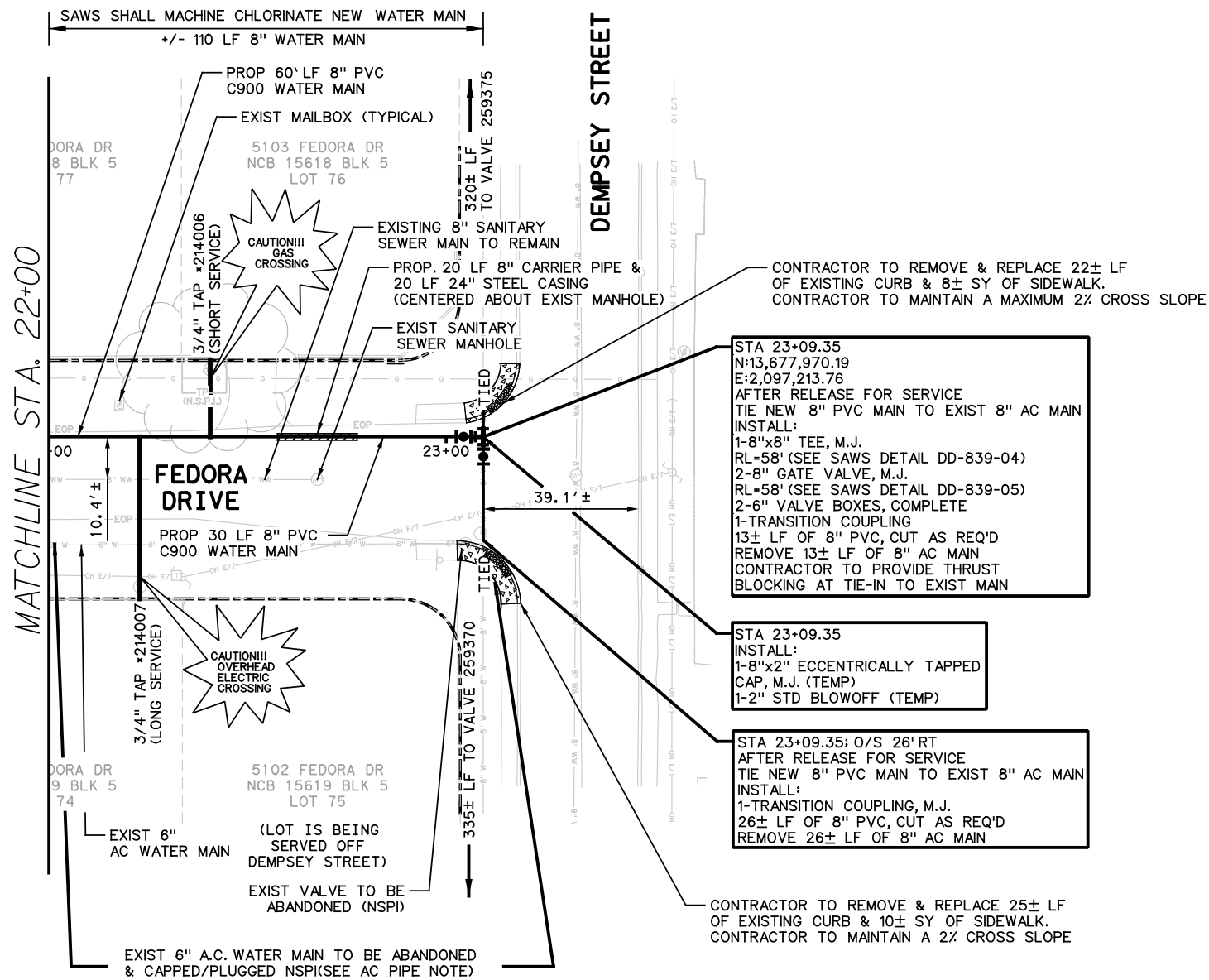
PROP. WATER MAIN	—●—
EXIST. WATER MAIN	—○—
GAS MAIN	—○—
SANITARY SEWER	—○—
STORM SEWER	—○—
UTILITY POLE LINE	—○—
ELECTRIC CABLE	—○—
TELEPHONE CABLE	—○—
DUAL BRANCH SERV.	—○—
NEW UNMETERED SERVICE:	
3/4" SINGLE	—●—
1" DUAL	—●—
SERVICE RECONNECT:	
3/4"	—●—
1" OR LARGER	—●—
SERVICE RELAY:	
3/4"	—●—
1" OR LARGER	—●—
SERVICE RELOCATE:	
3/4"	—●—
1" OR LARGER	—●—
RELOCATE METER	—○—
RELAY METER	—○—
NEW SERVICE:	
3/4"	—●—
1" OR LARGER	—●—

No.	Revision	Drawn	Approved	Date
REVISIONS				
<b>2019 SMP PACKAGE V</b> <b>BERTETTI DR &amp; FEDORA DR</b> <b>WATER PLAN 03</b> <b>FROM STA 18+00 TO 22+00</b>				
DEVELOPER:		BUDGET PROJ.		
CONT.		SUBMITTED		
APPROVED		MAP No. 106568 & 108568		
SECT. No.		SHEET 29 OF 33		
DR. IN		JOB No. 18-5015		

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8/13/2018

... \B\LAN002 FEDORA DR\_GD-WL04.dgn



STA 23+09.35  
 N:13,677,970.19  
 E:2,097,213.76  
 AFTER RELEASE FOR SERVICE  
 TIE NEW 8" PVC MAIN TO EXIST 8" AC MAIN  
 INSTALL:  
 1-8"x8" TEE, M.J.  
 RL-58' (SEE SAWS DETAIL DD-839-04)  
 2-8" GATE VALVE, M.J.  
 RL-58' (SEE SAWS DETAIL DD-839-05)  
 2-6" VALVE BOXES, COMPLETE  
 1-TRANSITION COUPLING  
 13± LF OF 8" PVC, CUT AS REQ'D  
 REMOVE 13± LF OF 8" AC MAIN  
 CONTRACTOR TO PROVIDE THRUST  
 BLOCKING AT TIE-IN TO EXIST MAIN

STA 23+09.35  
 INSTALL:  
 1-8"x2" ECCENTRICALLY TAPPED  
 CAP, M.J. (TEMP)  
 1-2" STD BLOWOFF (TEMP)

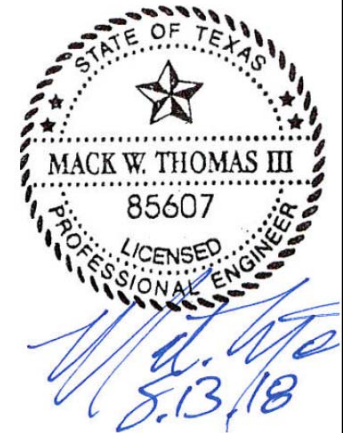
STA 23+09.35: O/S 26' RT  
 AFTER RELEASE FOR SERVICE  
 TIE NEW 8" PVC MAIN TO EXIST 8" AC MAIN  
 INSTALL:  
 1-TRANSITION COUPLING, M.J.  
 26± LF OF 8" PVC, CUT AS REQ'D  
 REMOVE 26± LF OF 8" AC MAIN

CONTRACTOR TO REMOVE & REPLACE 25± LF  
 OF EXISTING CURB & 10± SY OF SIDEWALK.  
 CONTRACTOR TO MAINTAIN A 2% CROSS SLOPE

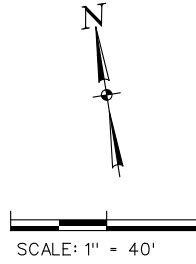
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.1	REMOVE CONCRETE CURB	LF	47
103.3	REMOVE CONCRETE SIDEWALK	SF	155
203	TACK COAT	GAL	8
205	HOT MIX ASPHALTIC PAVEMENT - TYPE B (10" COMP. DEPTH) (COSA SPECIFICATION)	SY	62
205	HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMP. DEPTH) (COSA SPECIFICATION)	SY	79
* 413	FLOWABLE FILL	CY	46
500.1	CONCRETE CURB	LF	47
502.1	CONCRETE SIDEWALK	SY	18
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	149
818	8" PVC WATERLINE (RESTRAINED)	LF	129
824	RELAY 3/4" SHORT SERVICE	EA	1
824	RELAY 3/4" LONG SERVICE	EA	1
824.5	CUSTOMER SHUTOFF VALVE W/ BOX	EA	2
828	8" GATE VALVE, M.J. W/ BOX, COMPLETE	EA	2
833	NEW METER BOX	EA	2
833	EXISTING METER AND NEW METER BOX	EA	1
836	PIPE FITTINGS, ALL SIZES & TYPES	TON	0.2
840	8" WATER TIE-IN	EA	2
841	HYDROSTATIC TESTING	EA	1
844	2" BLOW-OFF, TEMPORARY	EA	1
856	8" CARRIER PIPE	LF	20
856	24" STEEL CASING	LF	20
3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF VARIOUS SIZES OF A.C. PIPE	LF	39

NOTES:

- TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATION.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND GUY WIRES DURING CONSTRUCTION (NSPI).
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS. PROPERTY LINES SHOWN ARE APPROXIMATE.
- CONTRACTOR TO PROTECT EXIST SIGNS (NSPI). PROVIDE TEMPORARY SIGNS AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH CONSTRUCTION OF WATER MAIN (NSPI).
- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210)233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- CONTRACTOR TO SET VALVES TO FINAL FINISHED GRADE.
- CONTRACTOR TO MAINTAIN ACCESS TO ALL VALVES (EXISTING AND PROPOSED) DURING CONSTRUCTION (NSPI). FIRE HYDRANTS TO BE BETWEEN 1 AND 7 FEET FROM CURBS AS PER FIRE CODE.
- SEE SHEET 31, SPECIAL DETAILS SHEET 1, FOR TRENCH DETAIL FOR LOCATIONS UNDER EXISTING PAVEMENT (FEDORA DRIVE).



100% SUBMITTAL



AT&T:

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR IS TO CONTACT THE TELEPHONE COMPANY LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

ASBESTOS CEMENT PIPE CONNECTIONS & REMOVAL NOTE:

ASBESTOS CEMENT (A.C.) PIPE, ALSO KNOWN AS TRANSITE PIPE AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM), IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

TRENCH EXCAVATION 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 SYSTEM, 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.

NOTE:

- IF REQUIRED, CONTRACTOR IS TO REMOVE & REPLACE MAILBOXES TO THEIR ORIGINAL LOCATION, AND IN SAME OR BETTER CONDITION (NSPI).

LEGEND

PROP. WATER MAIN	—●—
EXIST. WATER MAIN	—○—
GAS MAIN	—○—
SANITARY SEWER	—○—
STORM SEWER	—○—
UTILITY POLE LINE	—○—
ELECTRIC CABLE	—○—
TELEPHONE CABLE	—○—
DUAL BRANCH SERV.	—○—
NEW UNMETERED SERVICE:	
3/4" SINGLE	—
1" DUAL	—
SERVICE RECONNECT:	
3/4"	—
1" OR LARGER	—
SERVICE RELAY:	
3/4"	—
1" OR LARGER	—
SERVICE RELOCATE:	
3/4"	—
1" OR LARGER	—
RELOCATE METER	—
RELAY METER	—
NEW SERVICE:	
3/4"	—
1" OR LARGER	—

		<small>4800 FREDERICKSBURG RD. SUITE 3000, SAN ANTONIO, TX 78229        (210) 349-4400 / (214) 726-9481        TOLL FREE: 1-800-511-1111</small>	
GONZALEZ DE LA GARZA		INCORPORATED ENGINEERS-CONTRACTORS	
No.	Revision	Drawn	Approved
REVISIONS			
<b>2019 SMP PACKAGE V          BERTETTI DR &amp; FEDORA DR          WATER PLAN 04          FROM STA 22+00 TO END</b>			
DEVELOPER:		BUDGET PROJ.	
CONT.		SUBMITTED	
APPROVED		MAP No. 106568 & 108568	
SECT. No.		SHEET 30	
DR. IN [CK, SJA]		JOB No. 18-5015	
		OF 33	