

GENERAL NOTES
REVISED SEPTEMBER 2011

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
 - A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
 - B. CURRENT TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."
 - C. CURRENT SAN ANTONIO WATER SYSTEM "STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."
 - D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."
 - E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL"
2. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 233-3500 AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO EXCAVATION.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:

UTILITY LOCATE:
SAWS UTILITY LOCATES: 233-2010
SAWS PRODUCTION CONTROL CENTER: 233-2016
COSA DRAINAGE: 207-8048
COSA TRAFFIC SIGNAL OPERATIONS: 207-7720
TEXAS STATE WIDE ONE CALL LOCATOR: 1-800-545-6005 OR 811
BEXAR METROPOLITAN WATER DISTRICT: 354-6536
4. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO OVERFLOWS OR SPILLAGE OF SEWAGE OCCURS. SHOULD THIS OCCUR, THE CONTRACTOR SHALL:
 - A. IDENTIFY THE SOURCE OF THE SPILL AND ATTEMPT TO ELIMINATE ANY ADDITIONAL SPILLAGE. NOTIFY SAWS CONSTRUCTION INSPECTIONS DIVISION AT 233-3500.
 - B. CONTAIN THE SPILL IN PLACE AND PREVENT CONTAMINATION OF STREAMS.
 - C. CLEAN UP THE SPILL AND DISPOSE OF CONTAMINATED MATERIALS.
 - D. DISINFECT THE AREA OF THE SPILL WITH A MIXTURE OF HTH CHLORINE AND WATER.
 - E. IDENTIFY AND TRAIN PERSONNEL RESPONSIBLE FOR SPILLAGE PREVENTION AND CONTROL.

NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND THE SAWS.
5. THE CONTRACTOR SHALL COMPLY WITH CITY OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
6. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS OR SPOILS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
7. SERVICE LATERAL CONNECTIONS:
 - A. THE EXACT LOCATION AND ELEVATION OF THE SERVICE LATERALS AND MANHOLES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. NO SEPARATE PAY ITEM (NSPI).
 - B. A MINIMUM OF 3 FEET OF COVER IS TO BE MAINTAINED OVER THE SANITARY SEWER LATERALS AT SUBGRADE.
 - C. ALL SEWER LATERAL SERVICES FOR FUTURE CONNECTIONS AS IDENTIFIED ON THE PLANS SHALL HAVE A ONE WAY CLEAN-OUT, CAPPED AND SEALED.
 - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS SERVICE DURING CONSTRUCTION OF THE SEWER WORK. (NSPI).
 - E. LATERALS SHALL BE CONSTRUCTED TO SERVE ALL EXISTING HOUSES AND PLATTED VACANT LOTS.
8. CONTRACTOR SHALL COORDINATE WITH SAWS CONSTRUCTION INSPECTION DIVISION AT 233-3500 AND/OR SAWS LIFT STATIONS OPERATIONS AT LEAST TWO WEEKS IN ADVANCE OF THE SHUTDOWN OF EXISTING FORCE MAINS OF ANY SIZE. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE SHUTDOWN INCLUDING ANY BYPASS PUMPING OR PUMP AND HAUL AS REQUIRED BY SAWS. PUMP AND HAUL WILL NOT BE ALLOWED OVER THE EDWARDS AQUIFER RECHARGE ZONE.
9. SEWER LINES LOCATED WITHIN OR CROSSING THE 5-YEAR FLOOD PLAIN OF A DRAINAGE WAY WILL BE PROTECTED FROM INUNDATION AND STREAM VELOCITIES WHICH COULD CAUSE EROSION AND SCOURING OF BACKFILL. THE TRENCH MUST BE CAPPED WITH CONCRETE TO PREVENT SCOURING OF BACKFILL. THE TRENCH MUST BE ENCASED IN CONCRETE. ALL CONCRETE SHALL HAVE A MINIMUM THICKNESS OF SIX INCHES.
10. WHERE WATER LINES AND NEW SEWER LINES ARE INSTALLED WITH A SEPARATION DISTANCE OF LESS THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC 217.53(D) (PIPE DESIGN) AND 30 TAC 290.44(E) (WATER DISTRIBUTION).
11. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.

12. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH SAWS STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION ITEM NO. 864, "BYPASS PUMPING". PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE BID ITEM "SANITARY SEWER (BYPASS PUMPING)" AS PER STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION ITEM NO. 864, "BYPASS PUMPING". THE CONTRACTOR SHALL PROVIDE IN WRITING A SEQUENCE OF BYPASS PUMPING FOR REVIEW AND APPROVAL BY THE INSPECTIONS DEPARTMENT. REFER TO THE CONSTRUCTION PLANS FOR THE CONSTRUCTION PHASING AND DIVERSION REQUIREMENTS. THE CONTRACTOR SHALL ALSO PROVIDE A DETAILED SKETCH SHOWING THE LOCATION OF BYPASS PUMPING EQUIPMENT FOR EACH LINE SEGMENT(S) AROUND WHICH FLOWS ARE BEING BYPASSED, ALONG WITH THE SPECIFICATION OF PUMPING EQUIPMENT, TYPE, SIZE, CAPACITY AND AMOUNT OF PUMPS REQUIRED TO HANDLE THE PEAK WET WEATHER FLOW.

SAFETY NOTES

1. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CITY PUBLIC SERVICE MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND GAS VALVES THAT ARE IN THE PROJECT AREAS.
2. THESE PLANS, PREPARED BY AECOM TECHNICAL SERVICES INC., DO NOT EXTEND TO OR INCLUDE DESIGNS ON SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVE IN THE PERFORMANCE OF THE WORK, THE SEAL OF THE REGISTERED ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR IS TO PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY HOUSE BILLS 562 AND 565 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE-REGULAR SESSION
3. IF POTENTIAL HAZARDOUS MATERIALS ARE ENCOUNTERED DURING EXCAVATION, CONSTRUCTION SHOULD CEASE UNTIL THE ENGINEER IS NOTIFIED. IF AN IMMEDIATE THREAT TO WORKER SAFETY OR A RELEASE TO THE ENVIRONMENT OF UNKNOWN WASTES IS PRESENT, CALL 911.

ABANDONMENT

1. ON ALL MANHOLES TO BE ABANDONED, THE RINGS AND COVERS SHALL BE SALVAGED IN ACCORDANCE WITH THE MOST CURRENT SAN ANTONIO WATER SYSTEM'S STANDARD SPECIFICATION FOR CONSTRUCTION, ITEM 101: PREPARATION OF RIGHT-OF-WAY. THE HOLE SHOULD BE BACKFILLED TO THE SATISFACTION OF THE INSPECTOR.
2. THE CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING SANITARY SEWERS AT ALL TIMES DURING CONSTRUCTION AND SHALL PROVIDE ALL NECESSARY BYPASS PUMPING.

EXCAVATION

1. 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 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.
2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION. THE CONTRACTOR SHALL NOT PERMANENTLY PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
3. CONTRACTOR SHALL INCORPORATE THE USE OF A TRENCH BOX OR OTHER ACCEPTABLE SAFETY SYSTEM IN ANY TRENCH THAT EXCEEDS FIVE (5) FEET IN DEPTH.

EROSION AND SEDIMENTATION CONTROL

1. THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION OF SEWER COLLECTION SYSTEMS. DEVELOPER OR AUTHORIZED REPRESENTATIVE SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL AS NOTES ON THE PROJECT'S PLAN AND PROFILE SHEETS.
2. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT BY THE SAN ANTONIO WATER SYSTEM.
3. CONTRACTOR SHALL COMPLY WITH THE GOVERNING AGENCY NPDES CONSTRUCTION REQUIREMENTS AND SHALL PROVIDE APPROPRIATE MITIGATION MEASURES OR PROTECTION AND RESTORATION AT ALL LOCATIONS AS REQUIRED BY THEIR OPERATIONS, AND AS DIRECTED BY THE ENGINEER. SPECIAL CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR BARRICADES, SHEETING, SHORING, EROSION PROTECTION, AND SURFACE RESTORATION AT CERTAIN LOCATIONS ARE INDICATED ON THE DRAWINGS TO BRING CONTRACTORS ATTENTION TO SENSITIVE AREAS.

SANITARY SEWER GENERAL NOTES

1. ALL WASTEWATER MAINS SHALL BE SIZE AND MATERIAL SHOWN ON PROFILE VIEW AND SHALL COMPLY WITH THE FOLLOWING STANDARDS: FIBERGLASS REINFORCED PIPE(FRP)=ASTM D-4161
PVC SDR-26 ASTM D-3034(PSI OF 115) USE WHEN PLANS CALL FOR SDR-26 PVC UNLESS SPECIFIED OTHERWISE.
PVC SDR-26 ASTM D-2241 (PSI OF 150) USE ONLY WHEN SPECIFIED.
2. WATER JETTING THE BACKFILL WITHIN A STREET WILL NOT BE PERMITTED. SANITARY SEWER TRENCHES SUBJECT TO TRAFFIC SHALL CONFORM TO THE S.A.W.S. STANDARD SPECIFICATIONS FOR CONSTRUCTION, ITEM NO. 550 & 804.
3. ALL MANHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE RING IS AT LEAST FOUR INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND EXCEPT WHEN LOCATED IN TXDOT R.O.W. OR PAVED AREAS. IN TXDOT R.O.W. OR PAVED AREAS, THE MANHOLE RING SHALL BE FLUSH WITH PAVEMENT.
4. SEWER PIPE CONNECTIONS TO PRE-CAST MANHOLES WILL BE COMPRESSION JOINTS AS APPROVED BY SAWS. MECHANICAL JOINT "BOOT TYPE" CONNECTIONS ALONE WILL NOT BE ALLOWED. "BOOT TYPE" JOINTS MAY BE USED IN CONJUNCTION WITH COMPRESSION JOINTS AS APPROVED BY SAWS. ANY CHANGES FROM THESE METHODS MUST BE APPROVED BY SAWS.
5. A DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER INITIAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. SAWS ITEM NO. 849.
6. ALL MAINS MUST PASS AIR TESTING PER SAWS ITEM NO. 849 IN THE STANDARD SPECIFICATIONS PRIOR TO ACCEPTANCE BY THE SAN ANTONIO WATER SYSTEM.
7. ALL MAINS MUST COMPLY WITH SAWS ITEM NO. 868 OF SEWER MAIN CLEANING.
8. SANITARY SEWER MAIN CONNECTIONS MADE DIRECTLY TO EXISTING MANHOLES WILL REQUIRE SUCCESSFUL TESTING OF THE MANHOLES IN ACCORDANCE WITH THE SAWS STANDARD SPECIFICATIONS ITEM NO. 849.

NOTIFICATIONS

1. CONTRACTOR SHALL GIVE NOTICES TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR TO ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED TO CONTRACTOR SHALL BE OBTAINED AT HIS EXPENSE.
2. CONTRACTOR SHALL NOTIFY CONSTRUCTION INSPECTOR AND ENVIRONMENTAL INSPECTOR AT LEAST 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY WITHIN EASEMENT OR STREET RIGHT-OF-WAY. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S RIGHT-OF-WAY MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.

GENERAL NOTES

1. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR ACTUAL TEST HOLE LOCATIONS AND THE FINDINGS OF THE GEOTECHNICAL INVESTIGATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION FROM DAMAGE DONE TO EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, LANDSCAPING, STRUCTURES, AND OTHER EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION.
3. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT, AND WORKMAN-LIKE MANNER AT ALL TIMES, JOB SITE SAFETY SHALL NOT BE COMPROMISED.
4. IF A THREATENED OR ENDANGERED PLANT OR ANIMAL SPECIES IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY SAWS.
5. BLASTING IS NOT ALLOWED ON THIS CONTRACT.
6. WHERE REQUIRED, CONCRETE ENCASEMENT SHALL BE PLACED FOR FULL WIDTH OF THE TRENCH TO A PLANE 6" ABOVE THE TOP OF THE PIPE, WITH PAY LIMITS AS SHOWN ON THE ITEM NO. DD-858-01.
7. CONTRACTOR SHALL PROTECT OR REMOVE AND REPLACE ALL TRAFFIC SIGNS.
8. CONTRACTOR SHALL PROTECT OR REMOVE AND REPLACE ALL MAILBOXES.
9. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER IN ADVANCE OF ANY WORK ON THE OWNER'S PROPERTY.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT AND COMPLY WITH ALL TRAFFIC CONTROL REQUIREMENTS SET FORTH BY ALL REGULATING ENTITIES PRIOR TO THE START OF ANY WORK.
11. ALL PERMANENT SIGNS OR TRAFFIC CONTROL DEVICES MISSING OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR MUST MAINTAIN ALL STREETS OPEN TO THROUGH TRAFFIC AS IDENTIFIED IN THE SEELING CHANNEL IMPROVEMENT (PHASE I) TRAFFIC CONTROL PLANS. CONTRACTOR SHALL PROVIDE REASONABLE ACCESS TO RESIDENCES AND ALL BUSINESSES WITHIN ALL PHASES OF WORK, AS WELL AS PROVIDING SUITABLE ACCESS TO ACCOMMODATIONS FOR SCHOOL CHILDREN, PEDESTRIANS, GARBAGE PICK-UP, AND MAIL DELIVERY BY THE US POSTAL SERVICE.

TREE PROTECTION

1. CONTRACTOR SHALL PROTECT ALL TREES WHENEVER POSSIBLE. DAMAGE TO TREES SHOWN ON PLANS TO BE SAVED WILL BE MITIGATED AT THE CONTRACTOR'S EXPENSE PER MOST CURRENT CITY OF SAN ANTONIO TREE ORDINANCE.
2. THE CITY ARBORIST SHALL BE PRESENT AT THE PRE CONSTRUCTION MEETING.
3. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED WITHIN 5' FROM THE TRUNK OF A TREE THAT IS PROTECTED. TRENCH SHORING WILL BE REQUIRED INSIDE OF A TREE'S ROOT PROTECTION ZONE. THE ROOT PROTECTION ZONE IS CALCULATED AS A RADIUS TO THE TREE TRUNK EQUAL TO ONE FOOT PER DIAMETER INCH OF THE TREE.
4. THIS PROJECT IS SUBJECT TO REGULATIONS ESTABLISHED BY THE CITY OF SAN ANTONIO TREE ORDINANCE.

UNDERGROUND UTILITIES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTHS OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THE PLANS 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING UTILITY DISCREPANCIES IDENTIFIED DURING UTILITY VERIFICATIONS 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
3. 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.

ENGINEER'S NOTES

1. CONTRACTOR SHALL REPLACE ALL DISTURBED ASPHALT IN ACCORDANCE WITH DD-804-01 (SHEET 15 OF 15).
2. CONTRACTOR SHALL REFER TO SEELING CHANNEL (PHASE I) TRAFFIC CONTROL PLAN SEQUENCE OF WORK FOR PROPOSED SEWER IMPROVEMENTS PHASING REQUIREMENTS.
3. INFORMATION FROM AVAILABLE PLAN OF RECORD DRAWINGS SUGGESTS THAT THE SITE MAY CONTAIN EXISTING WATER AND WASTEWATER SYSTEMS THAT WERE ABANDONED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY ABANDONED WATER OR WASTEWATER SYSTEMS IN CONFLICT WITH ANY PROPOSED IMPROVEMENTS. NO SEPARATE PAY ITEM.
4. REFER TO SEELING CHANNEL IMPROVEMENTS (PHASE I) PROJECT LEGEND FOR ADDITIONAL IDENTIFICATION OF EXISTING AND PROPOSED UTILITIES.

NO	DATE	DESCRIPTION REVISIONS	DWGCHK

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TBP REG. NO. F-3580



**SAN ANTONIO
WATER SYSTEM
SANITARY SEWER
REPLACEMENT PROJECT
PROP. JOB NO. 10-5510**

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

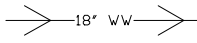
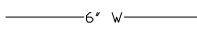

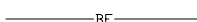
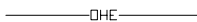

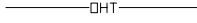




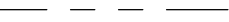






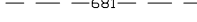


SEELING CHANNEL PHASE I





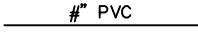














GENERAL NOTES

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC
		SHEET NO.

EXISTING


PROPOSED

- EXISTING SANITARY SEWER  18" WW
- EXISTING WATER MAIN  6" W
- EXISTING UNDERGROUND GAS LINE  2" GAS
- EXISTING UNDERGROUND ELEC. LINE  BE
- EXISTING OVERHEAD ELEC. LINE  OHE
- EXISTING UNDERGROUND TELE. LINE  TEL
- EXISTING OVERHEAD TELE. LINE  OHT
- EXISTING SANITARY SEWER CLEANOUT 
- EXISTING WATER METER 
- EXISTING WATER VALVE 
- EXISTING TREE  4" PECAN
- EXISTING PROPERTY & R.O.W. LINE 
- EXISTING SANITARY SEWER MANHOLE 
- EXISTING TELE. MANHOLE 
- EXISTING POWERPOLE W/LIGHT 
- EXISTING POWER POLE 
- EXISTING STORM DRAIN MANHOLE 
- EXISTING FIRE HYDRANT 
- EXISTING GROUND CONTOUR  681
- EXISTING CHAINLINK FENCE 
- EXISTING GUY WIRE 

- PROPOSED 30" SANITARY SEWER 
- PROPOSED 21" SANITARY SEWER 
- PROPOSED 8"-15" SANITARY SEWER 
- PROPOSED MANHOLE 
- PROPOSED WATER LINE  # PVC
- PROPOSED WATER MAIN FITTING 
- PROPOSED WATER MAIN REDUCER 
- PROPOSED WATER MAIN GATE VALVE 
- PROPOSED WATER MAIN TEE 
- PROPOSED WATER MAIN CAP 
- PROPOSED WATER MAIN FIRE HYDRANT 
- PROPOSED SEWER LATERAL CONNECTION 
- PROPOSED WATER MAIN LATERAL TAP CONNECTION 
- PROPOSED STORM DRAIN 
- PROPOSED CONCRETE SEELING CHANNEL 
- PROPOSED R.O.W. LINE 
- PROPOSED CURB 
- PROPOSED BRIDGE PIERS 
- PROPOSED SEELING CHANNEL RETAINING WALL 

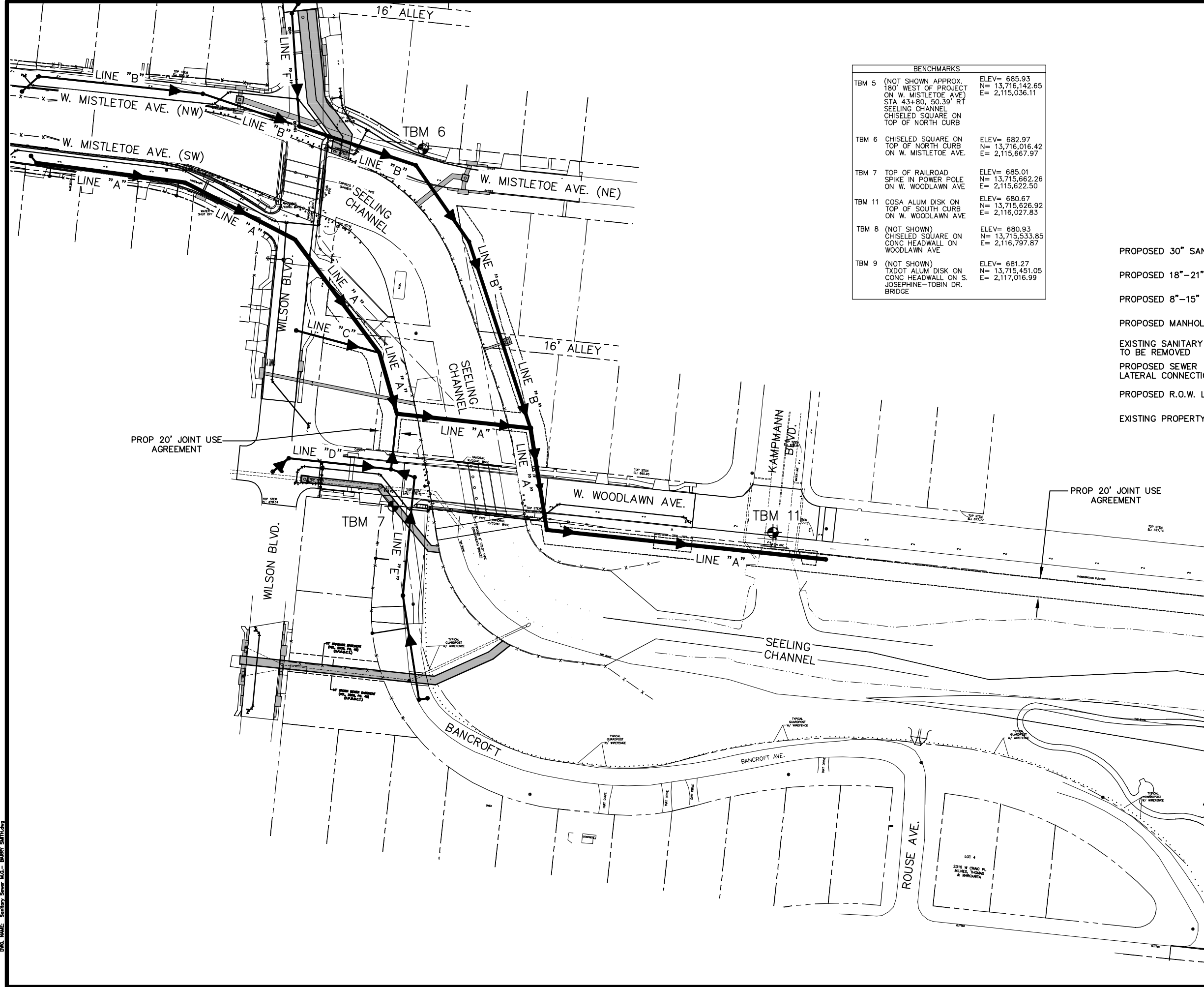
NO	DATE	DESCRIPTION	DWGCHK
REVISIONS			

AECOM
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 TBPE REG. NO. F-3580

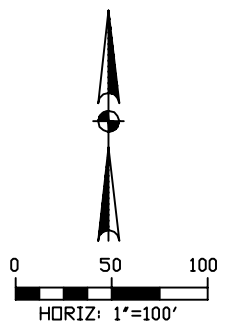
 **SAN ANTONIO**
WATER SYSTEM
SANITARY SEWER
REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 SEELING CHANNEL PHASE I

ABBREVIATIONS & LEGEND



BENCHMARKS	
TBM 5 (NOT SHOWN APPROX. 180' WEST OF PROJECT ON W. MISTLETOE AVE) STA 43+80, 50.39' RT SEELING CHANNEL CHISELED SQUARE ON TOP OF NORTH CURB	ELEV= 685.93 N= 13,716,142.65 E= 2,115,036.11
TBM 6 CHISELED SQUARE ON TOP OF NORTH CURB ON W. MISTLETOE AVE.	ELEV= 682.97 N= 13,716,016.42 E= 2,115,667.97
TBM 7 TOP OF RAILROAD SPIKE IN POWER POLE ON W. WOODLAWN AVE	ELEV= 685.01 N= 13,715,662.26 E= 2,115,622.50
TBM 11 COSA ALUM DISK ON TOP OF SOUTH CURB ON W. WOODLAWN AVE	ELEV= 680.67 N= 13,715,626.92 E= 2,116,027.83
TBM 8 (NOT SHOWN) CHISELED SQUARE ON CONC HEADWALL ON WOODLAWN AVE	ELEV= 680.93 N= 13,715,533.85 E= 2,116,797.87
TBM 9 (NOT SHOWN) TXDOT ALUM DISK ON CONC HEADWALL ON S. JOSEPHINE-TOBIN DR. BRIDGE	ELEV= 681.27 N= 13,715,451.05 E= 2,117,016.99



LEGEND	
PROPOSED 30" SANITARY SEWER	
PROPOSED 18"-21" SANITARY SEWER	
PROPOSED 8"-15" SANITARY SEWER	
PROPOSED MANHOLE	
EXISTING SANITARY SEWER MAIN TO BE REMOVED	
PROPOSED SEWER LATERAL CONNECTION	
PROPOSED R.O.W. LINE	
EXISTING PROPERTY & R.O.W. LINE	

LAST MODIFIED: May 25, 2016 - 1:53pm BY USER: castnew
 DWG: SANITARY SEWER REPLACEMENT (PHASE 1) PLAN OF RECORD - SEWER (Submittal 2 Documents)
 PROJECT: SAN ANTONIO WATER SYSTEM REPLACEMENT PROJECT (PHASE 1) PLAN OF RECORD - SEWER (Submittal 2 Documents)

NO	DATE	DESCRIPTION	DWGCHK
REVISIONS			

AECOM
 AECOM TECHNICAL SERVICES, INC.
 6800 PARK TEN BLVD., SUITE 180 SOUTH
 SAN ANTONIO, TEXAS 78213
 WWW.AECOM.COM
 TBPE REG. NO. F-3580

SAN ANTONIO
 WATER SYSTEM
 SANITARY SEWER
 REPLACEMENT PROJECT
 PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 SEELING CHANNEL PHASE 1

PROJECT LAYOUT

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC
		SHEET NO.

LAST MODIFIED: May 25, 2016 - 1:54pm BY USER: cestrow
 PLOT DATE: 8/23/12 PLOT TIME: 8:58am
 PLOT USER: M.G.

SANITARY SEWER REPLACEMENT PROJECT			
ITEM NO.	DESCRIPTION	UNIT	TOTAL
100	Mobilization	LS	1
101	Preparation of R.O.W.	LS	1
550	Trench Excavation Safety Protection	LF	2,255
848	8" PVC Sanitary Sewer Line (14' - 18')	LF	272
848	10" PVC Sanitary Sewer Line (10' - 14')	LF	67
848	10" PVC Sanitary Sewer Line (14' - 18')	LF	125
848	15" PVC Sanitary Sewer Line (6' - 10')	LF	13
848	15" PVC Sanitary Sewer Line (10' - 14')	LF	234
848	15" PVC Sanitary Sewer Line (14' - 18')	LF	286
848	18" PVC Sanitary Sewer (6' - 10')	LF	10
848	21" PVC Sanitary Sewer (14' - 18')	LF	436
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (6' - 10')	LF	40
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (14' - 18')	LF	894
851	Adjust Existing Manholes	EA	894
850	Sanitary Sewer Structures - 60"	EA	0
850	Sanitary Sewer Structures - 72"	EA	6
850	Sanitary Sewer Structures - 96"	EA	1
852	48" Manhole (0' - 6' deep)	EA	13
852	60" Manhole (0' - 6' deep)	EA	1
852	48" Manhole Extra Depth	VF	103
852	60" Manhole Extra Depth	VF	10
854	Sanitary Sewer Laterals	LF	118
854	Sanitary Sewer Cleanout	EA	6
855	Reconstruct Existing Manhole	EA	2
856	Jacking, Boring or Tunneling (48")	LF	122
856	Carrier Pipe - 30" Fiberglass Reinforced Gravity Sewer Pipe	LF	122
856	Casing - 48" Steel Pipe	LF	122
858	Concrete Encasement	CY	19
860	Vertical Stacks	VF	20
862	Abandonment of Sanitary Sewers (15" or larger)	LF	1,463
864	Bypass Pumping	LS	1
866	8" - 15" Sewer Main Television Inspection	LF	984
866	18" - 21" Sewer Main Television Inspection	LF	446
866	24" - 30" Sewer Main Television Inspection	LF	934
866	8" - 15" Sewer Main Cleaning & Pre-Televising (Existing Mains)	LF	226
866	18" - 21" Sewer Main Cleaning & Pre-Televising (Existing Mains)	LF	1,652

NO	DATE	DESCRIPTION	DWGCHK
Δ	8/14/12	REVISED QUANTITY DESCRIPTIONS	
Δ	8/23/12	REVISED QUANTITIES	

AECOM
 AECOM TECHNICAL SERVICES, INC.
 6800 PARK TEN BLVD., SUITE 180 SOUTH
 SAN ANTONIO, TEXAS 78213
 WWW.AECOM.COM
 TBPE REG. NO. F-3580



SAN ANTONIO
WATER SYSTEM
SANITARY SEWER
REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 SEELING CHANNEL PHASE I

SUMMARY QUANTITY SHEET

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC SHEET NO.

NOTE TO CONTRACTOR:
SEE TREE PRESERVATION PLAN FOR DETAILED DESCRIPTION AND LOCATION OF TREES AFFECTED BY PROJECT CONSTRUCTION.

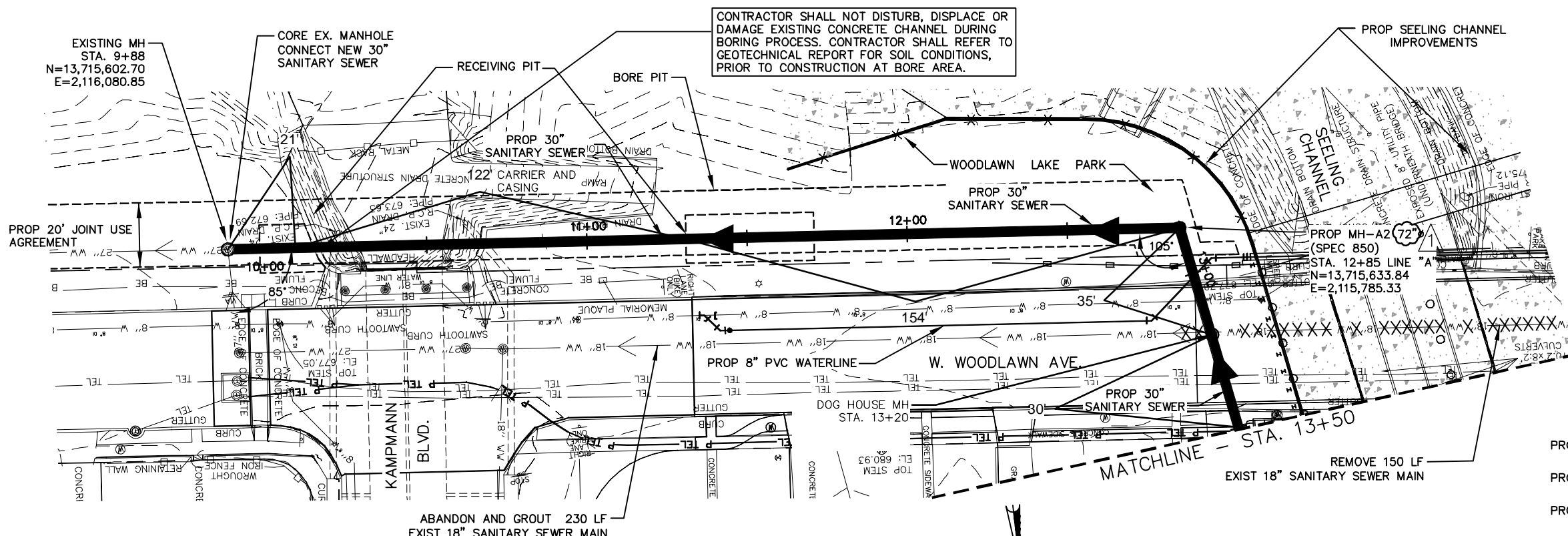
CPS AND TELEPHONE COMPANY NOTES

CALL THE TEXAS WIDE STATE ONE CALL LOCATOR AT 1-800-545-6005 48 HOURS BEFORE ANY CONSTRUCTION.

DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR/FOREMAN MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING CPS OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREA.

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/FOREMAN IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND UNDERGROUND ELECTRIC CABLES DURING (NSPI) CONSTRUCTION. 48 HOURS BEFORE BEGINNING ANY EXCAVATION. CALL THE TEXAS WIDE STATE ONE CALL LOCATOR AT 1-800-545-6005. CONTRACTOR TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.



TRENCH EXCAVATION SAFETY PROTECTION

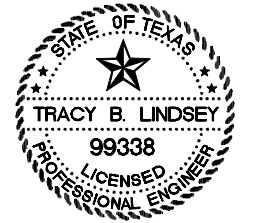
TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF PART 1926, SUBPART P-EXCAVATION, TRENCHING, AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS AND INTERPRETATIONS. THE CONTRACTOR/FOREMAN SHALL ALSO COMPLY WITH 550, TRENCH EXCAVATION PROTECTION, SAN ANTONIO WATER SYSTEM SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION.

Item#	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	118
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (14' - 16')	LF	240
850	Sanitary Sewer Structure (72")	EA	1
856	Jacking, Boring or Tunneling (48")	LF	122
856	Carrier Pipe - 30" Fiberglass Reinforced Gravity Sewer Pipe	LF	122
862	Abandonment of Sanitary Sewer Main	LF	230
856	Casing - 48" Steel Pipe	LF	122
866	24" - 30" Sewer Main Television Inspection	LF	240

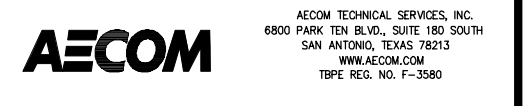
LEGEND

- PROPOSED 30" SANITARY SEWER
- PROPOSED 18"-21" SANITARY SEWER
- PROPOSED 8"-15" SANITARY SEWER
- PROPOSED MANHOLE
- EXISTING SANITARY SEWER MAIN TO BE REMOVED
- PROPOSED SANITARY SEWER LATERAL CONNECTION
- PROPOSED R.O.W. LINE
- EXISTING PROPERTY & R.O.W. LINE

SCALE:
HORIZ: 1"=40'
VERT: 1"=10'



NO	DATE	DESCRIPTION REVISIONS	DWGCHK
1	8/23/12	REVISED SANITARY SEWER STRUCTURE FROM 60" TO 72"	



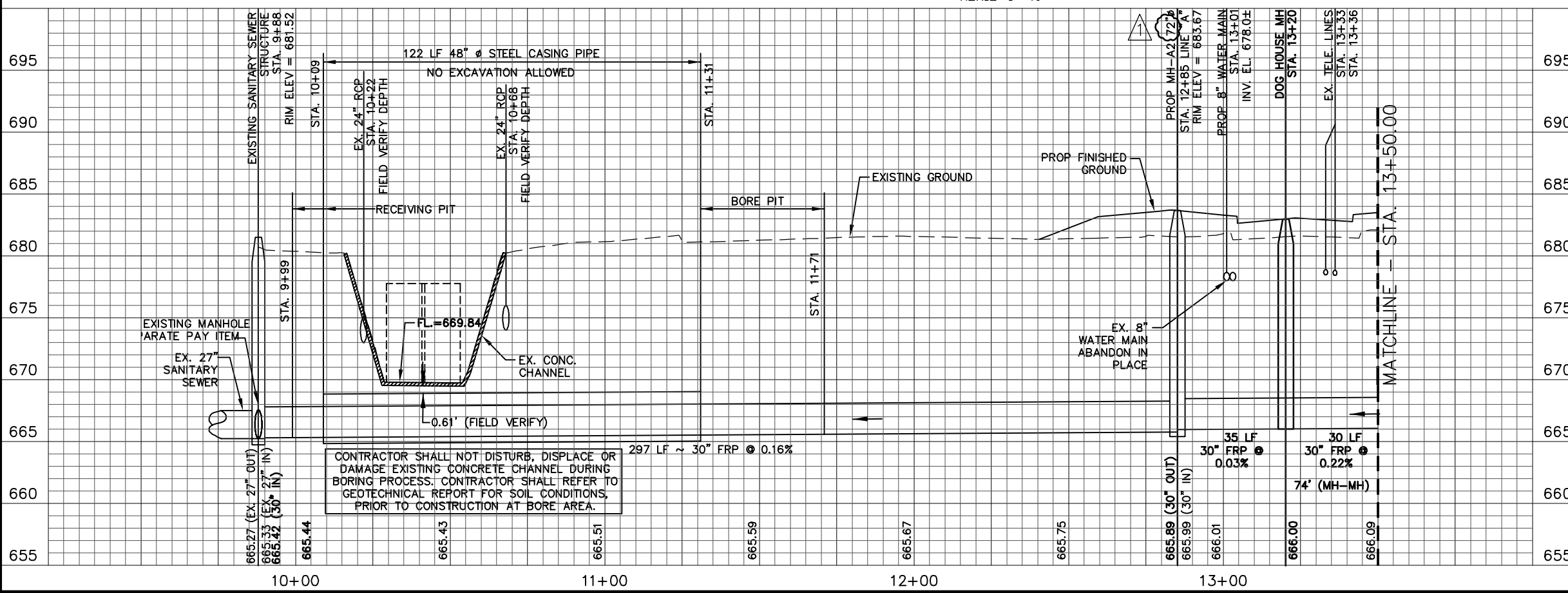
SAN ANTONIO WATER SYSTEM
SANITARY SEWER REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I
SANITARY SEWER PLAN AND PROFILE LINE "A"
STA 9+88 TO STA 13+50

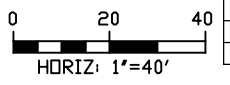
BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC

LAST MODIFIED: May 23, 2016 - 1:14pm
 BY USER: gonzalezm1
 FILE: \\sanantoniowater.com\proj\10-5510\Sanitary Sewer Replacement\Sanitary Sewer Replacement.dwg
 DWG: 10-5510-SSR-PLAN-01.dwg



CONTRACTOR SHALL NOT DISTURB, DISPLACE OR DAMAGE EXISTING CONCRETE CHANNEL DURING BORING PROCESS. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR SOIL CONDITIONS, PRIOR TO CONSTRUCTION AT BORE AREA.

LINE "A"



NOTE TO CONTRACTOR:
SEE TREE PRESERVATION PLAN FOR DETAILED
DESCRIPTION AND LOCATION OF TREES AFFECTED
BY PROJECT CONSTRUCTION.

ABANDON LF
EXIST 18" SANITARY
SEWER

Item #	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	401
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (6' - 10')	LF	40
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (14' - 18')	LF	361
850	Sanitary Sewer Structure - 72"	EA	2
850	Sanitary Sewer Structure - 96"	EA	1
862	Abandonment of Sanitary Sewer Main	LF	223
858	Concrete Encasement	CY	10
866	24" - 30" Sewer Main Television Inspection	LF	401

CPS AND TELEPHONE COMPANY NOTES
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1-800-545-6005 48 HOURS BEFORE ANY CONSTRUCTION.

DUE TO FEDERAL REGULATION TITLE 49, PART 192.181,
CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL
TIMES. THE CONTRACTOR/FOREMAN MUST PROTECT AND
WORK AROUND ANY GAS VALVES THAT ARE IN THE
PROJECT AREA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR
PROTECTING CPS OVERHEAD AND UNDERGROUND ELECTRIC
FACILITIES IF ADJACENT TO WORK AREA.

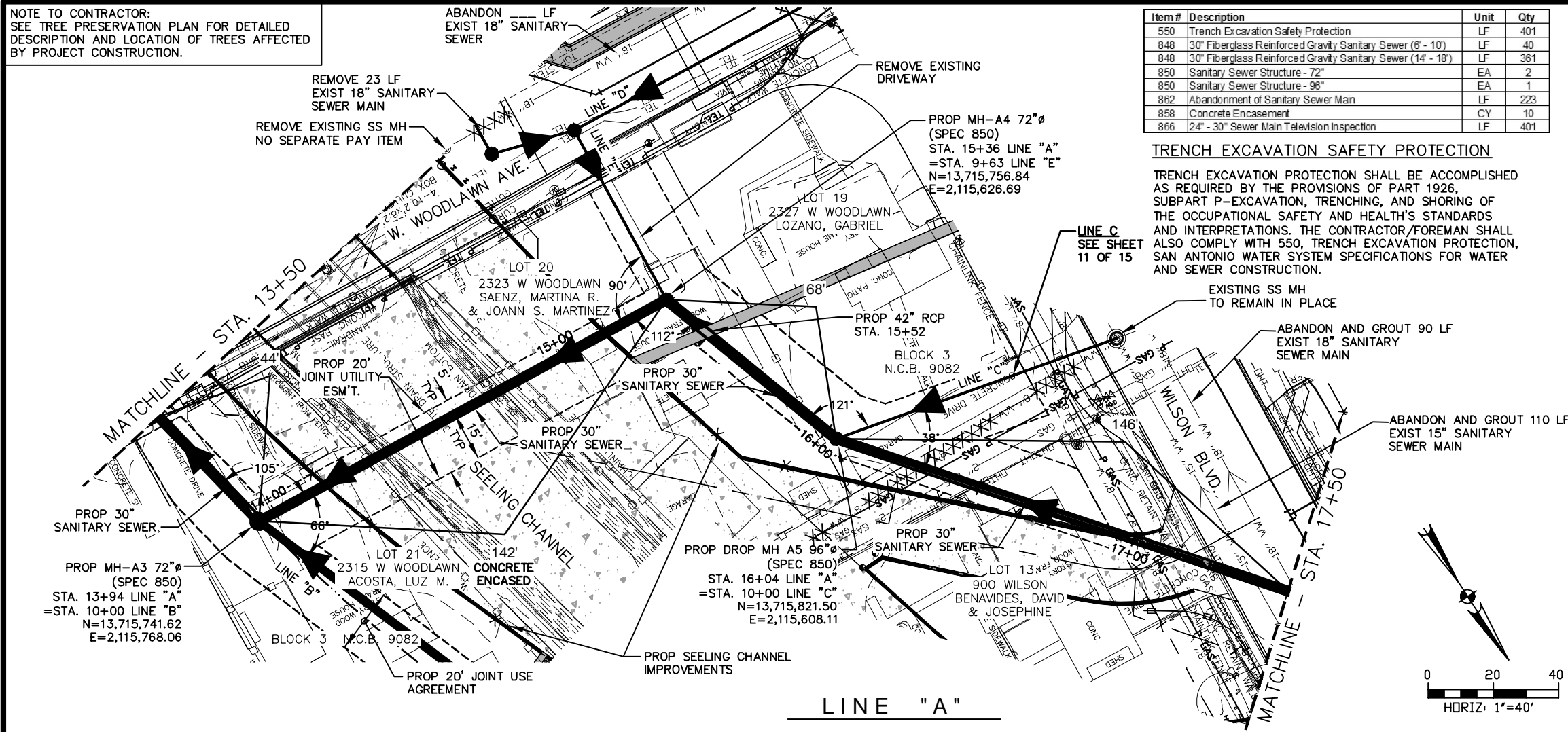
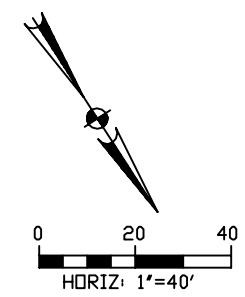
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MAINTAINING AND PROTECTING THE INTEGRITY OF POWER
POLES AND UNDERGROUND ELECTRIC CABLES DURING
(NSPI) CONSTRUCTION. 48 HOURS BEFORE BEGINNING ANY
EXCAVATION. CALL THE TEXAS WIDE STATE ONE CALL
LOCATOR AT 1-800-545-6005. CONTRACTOR TO PROTECT AND
SUPPORT TELEPHONE COMPANY PLANT DURING
CONSTRUCTION.

TRENCH EXCAVATION SAFETY PROTECTION

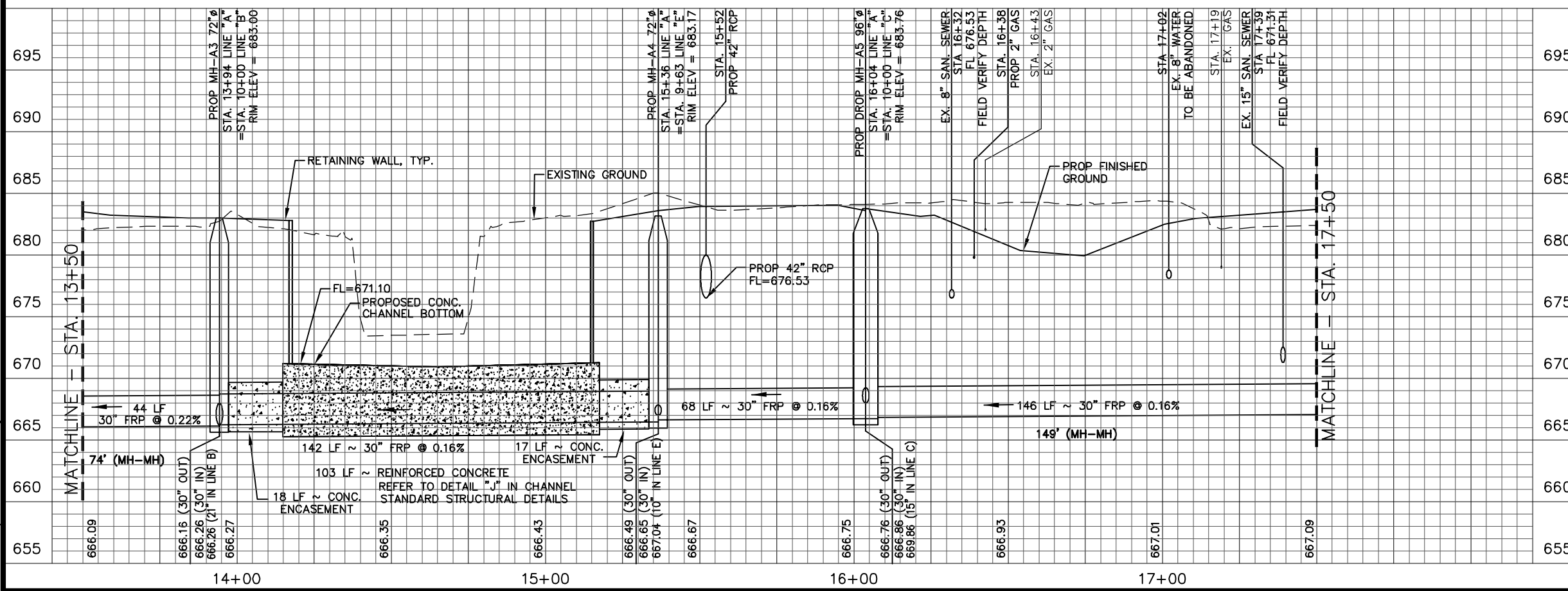
TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED
AS REQUIRED BY THE PROVISIONS OF PART 1926,
SUBPART P-EXCAVATION, TRENCHING, AND SHORING OF
THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS
AND INTERPRETATIONS. THE CONTRACTOR/FOREMAN SHALL
ALSO COMPLY WITH 550, TRENCH EXCAVATION PROTECTION,
SAN ANTONIO WATER SYSTEM SPECIFICATIONS FOR WATER
AND SEWER CONSTRUCTION.

LEGEND

- PROPOSED 30" SANITARY SEWER
- PROPOSED 18"-21" SANITARY SEWER
- PROPOSED 8"-15" SANITARY SEWER
- PROPOSED MANHOLE
- EXISTING SANITARY SEWER MAIN TO BE REMOVED
- PROPOSED SANITARY SEWER LATERAL CONNECTION
- PROPOSED R.O.W. LINE
- EXISTING PROPERTY & R.O.W. LINE



LINE "A"



SCALE:
HORIZ: 1"=40'
VERT: 1"=10'

TRACY B. LINDSEY
99338
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION REVISIONS	DWG/CHK

AECOM TECHNICAL SERVICES, INC.
6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
WWW.AECOM.COM
TBPPE REG. NO. F-3580

**SAN ANTONIO
WATER SYSTEM**
SANITARY SEWER
REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I
**SANITARY SEWER
PLAN AND PROFILE
LINE "A"**
STA 13+50 TO STA 17+50

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC

7 OF 15

LAST MODIFIED: May 23, 2016 - 1:59pm BY USER: gonzalez1
 FILE LOCATION: \\saw01\proj\10-5510\Sanitary Sewer Channel (Mcdowell)\DWG\CAD\C\Plan of Record\10145086 Plan of Record - Sewer\Working\Reflin
 DWG NO: 10145086

NOTE TO CONTRACTOR:
SEE TREE PRESERVATION PLAN FOR DETAILED DESCRIPTION AND LOCATION OF TREES AFFECTED BY PROJECT CONSTRUCTION.

Item#	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	303
848	18" PVC Sanitary Sewer (6' - 10')	LF	10
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (14' - 18')	LF	293
850	Sanitary Sewer Structure (72")	EA	3
852	48" Manhole Sanitary Sewer Manhole (0' - 6' deep)	EA	1
852	48" Manhole Extra Depth	VF	4
854	Sanitary Sewer Laterals	LF	51
854	Sanitary Sewer Cleanout	EA	4
862	Abandonment of Sanitary Sewer Main	LF	290
866	18" - 21" Sewer Main Television Inspection	LF	10
866	24" - 30" Sewer Main Television Inspection	LF	293

CPS AND TELEPHONE COMPANY NOTES

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ABANDON AND GROUT 25 LF EXISTING 18" SANITARY SEWER MAIN AFTER CONSTRUCTION OF SANITARY SEWER IMPROVEMENTS WITHIN PHASE 3 STEP 2 AS IDENTIFIED IN TRAFFIC CONTROL PLANS.

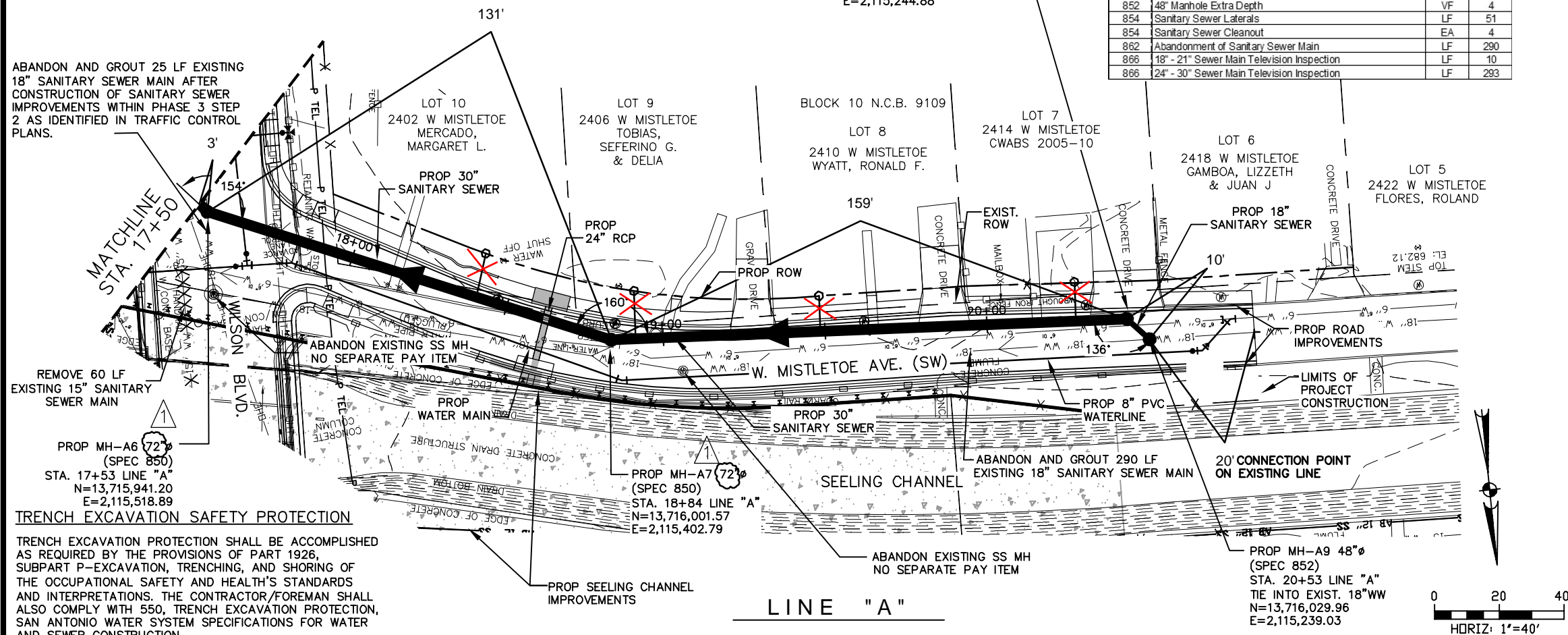
REMOVE 60 LF EXISTING 15" SANITARY SEWER MAIN

PROP MH-A6 (72") (SPEC 850)
STA. 17+53 LINE "A"
N=13,715,941.20
E=2,115,518.89

TRENCH EXCAVATION SAFETY PROTECTION

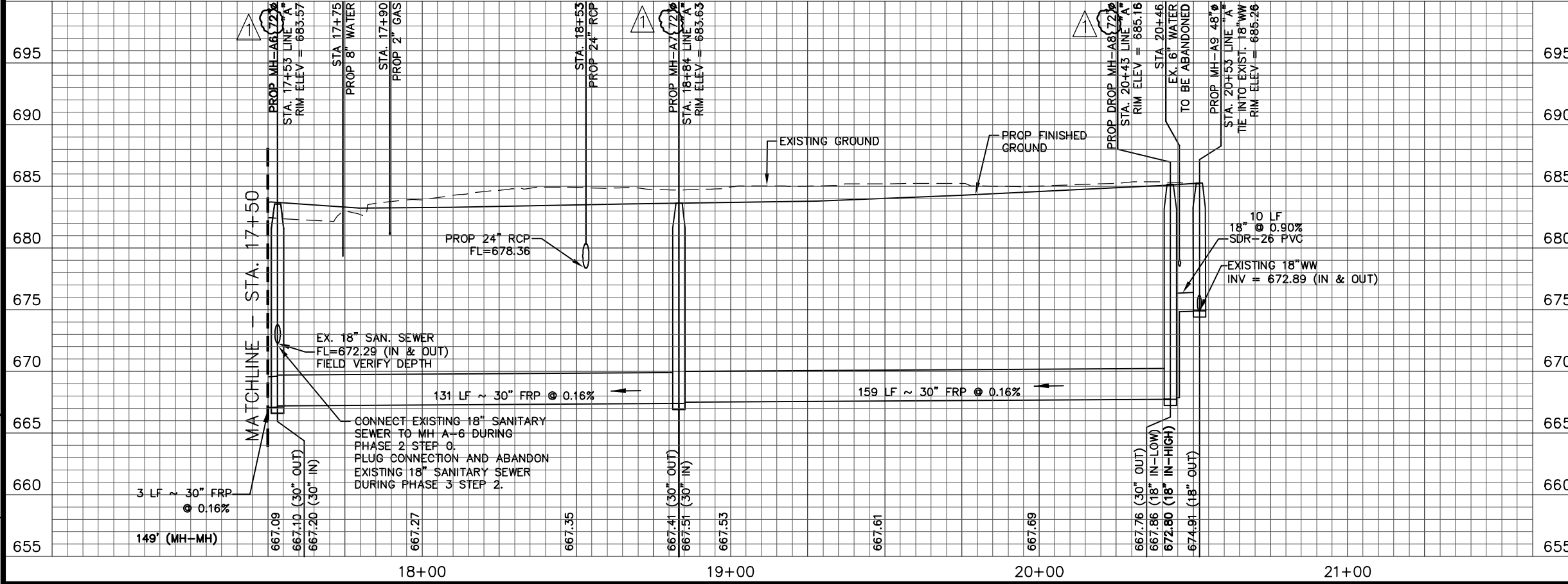
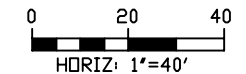
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PROP DROP MH-A8 (72") (DROP)
(SPEC 850)
STA. 20+43 LINE "A"
N=13,716,022.58
E=2,115,244.88

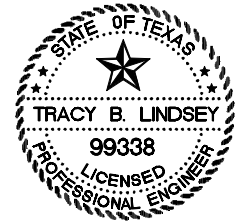


LEGEND

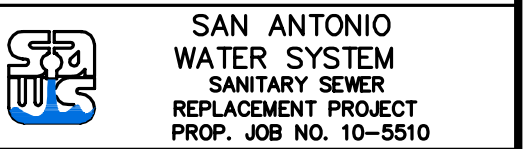
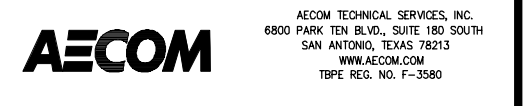
- PROPOSED 30" SANITARY SEWER
- PROPOSED 18"-21" SANITARY SEWER
- PROPOSED 8"-15" SANITARY SEWER
- PROPOSED MANHOLE
- EXISTING SANITARY SEWER MAIN TO BE REMOVED
- PROPOSED SANITARY SEWER LATERAL CONNECTION
- PROPOSED R.O.W. LINE
- EXISTING PROPERTY & R.O.W. LINE



SCALE:
HORIZ: 1"=40'
VERT: 1"=10'



NO	DATE	DESCRIPTION	DWGCHK
1	8/23/12	REVISED SANITARY SEWER STRUCTURE FROM 60" TO 72"	



CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I
SANITARY SEWER
PLAN AND PROFILE
LINE "A"
STA 17+50 TO STA 20+53

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC

LAST MODIFIED: May 23, 2016 - 1:05pm BY USER: gencocem1
 FILE: \\sanant\proj\10-5510\Drawings\Sanitary Sewer\Seeling Channel (Miscellaneous)\DWG\CS\Plan of Record - Sewer\Incoming Redlin
 DWG NO: 10-5510-SS-SC-PLAN-01

Item #	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	400
848	21" PVC Sanitary Sewer (14' - 18')	LF	400
852	48" Manhole (0' - 6' deep)	EA	2
852	48" Manhole Extra Depth	VF	18
858	Concrete Encasement	CY	6
866	18" - 21" Sewer Main Television Inspection	LF	400

NOTE TO CONTRACTOR:
SEE TREE PRESERVATION PLAN FOR DETAILED DESCRIPTION AND LOCATION OF TREES AFFECTED BY PROJECT CONSTRUCTION.

CPS AND TELEPHONE COMPANY NOTES

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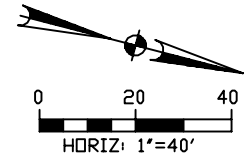
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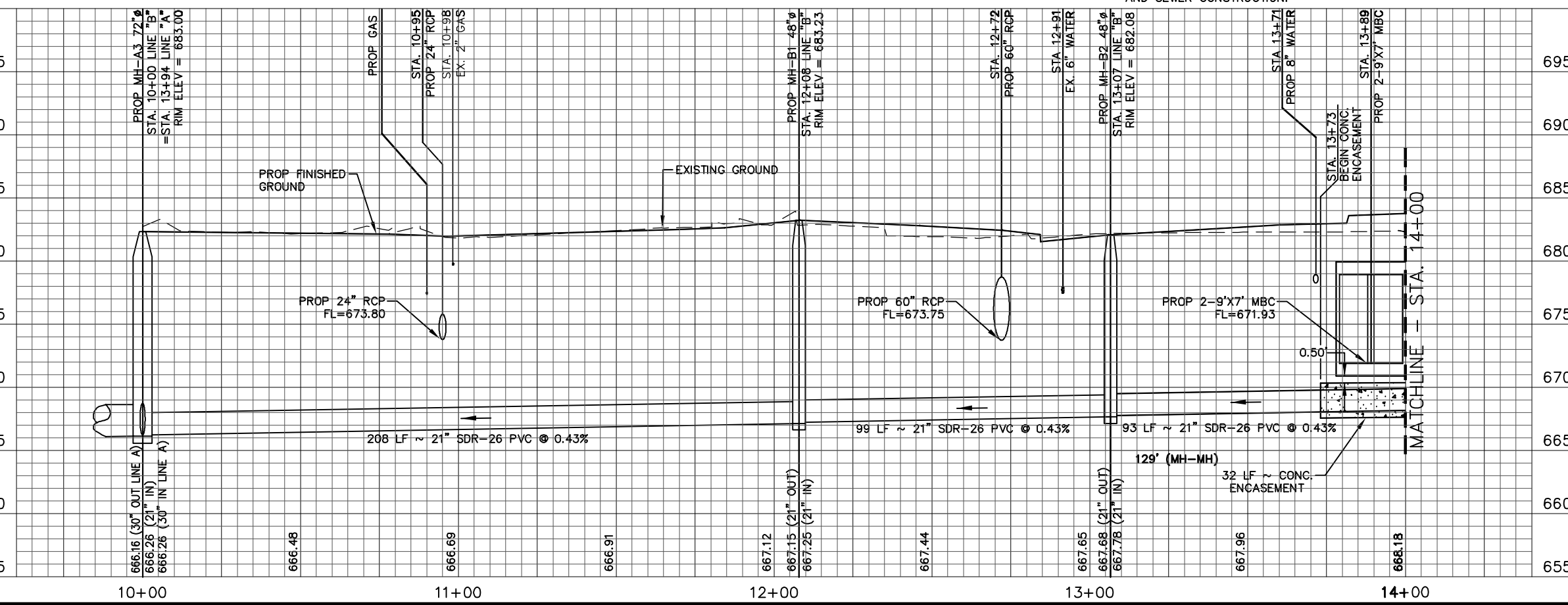
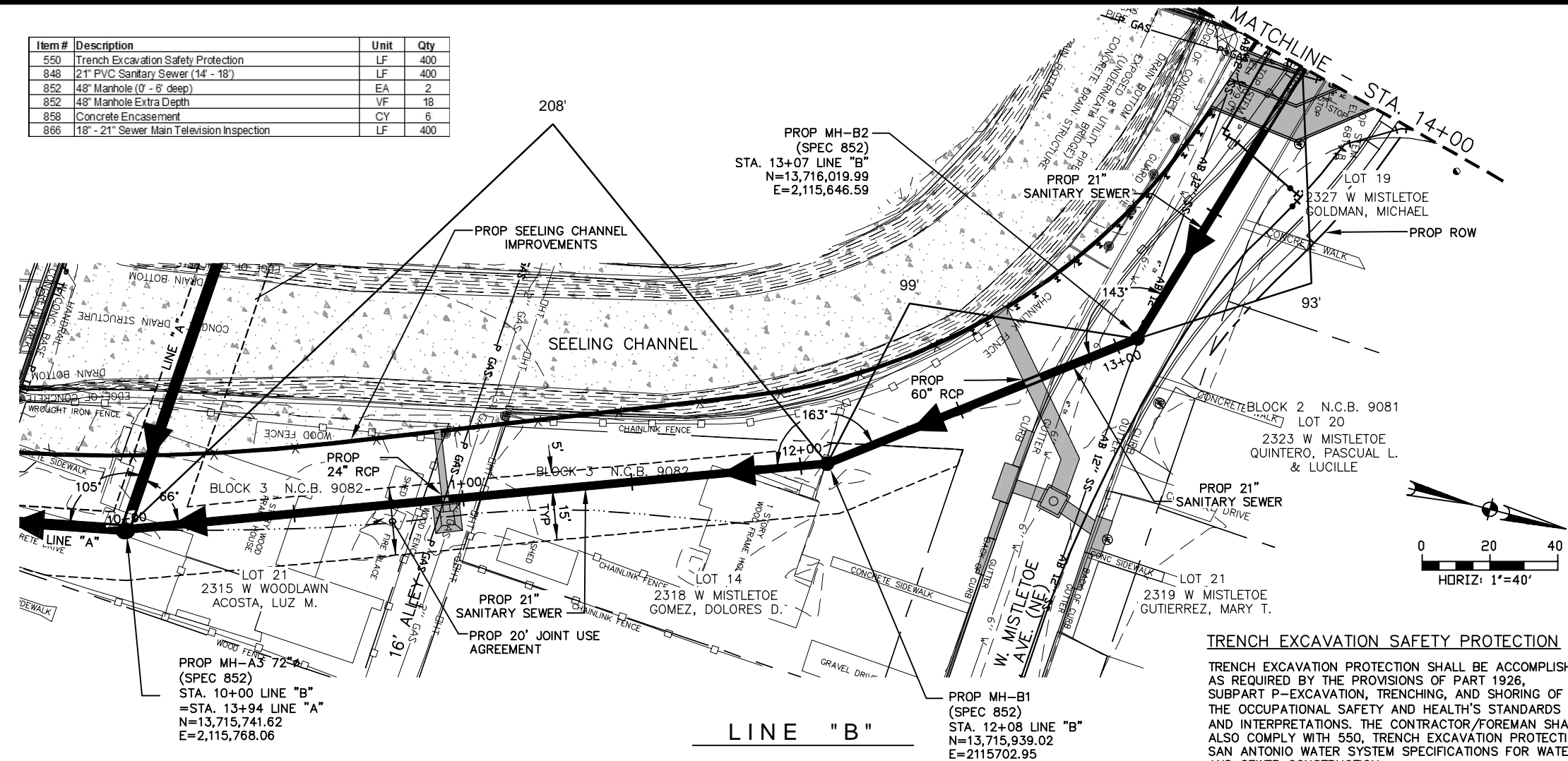
LEGEND

- PROPOSED 30" SANITARY SEWER
- PROPOSED 18"-21" SANITARY SEWER
- PROPOSED 8"-15" SANITARY SEWER
- PROPOSED MANHOLE
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- PROPOSED R.O.W. LINE
- EXISTING PROPERTY & R.O.W. LINE

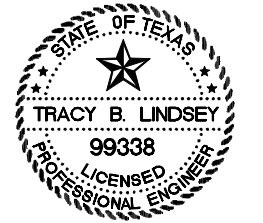


TRENCH EXCAVATION SAFETY PROTECTION

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SCALE:
HORIZ: 1"=40'
VERT: 1"=10'



NO	DATE	DESCRIPTION REVISIONS	DWGCHK

AECOM
AECOM TECHNICAL SERVICES, INC.
6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
WWW.AECOM.COM
TBP REG. NO. F-3580

SAN ANTONIO WATER SYSTEM
SANITARY SEWER REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I
SANITARY SEWER PLAN AND PROFILE
LINE "B"
STA 10+00 TO STA 14+00

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC

LAST MODIFIED: May 23, 2016 - 1:09pm
 BY USER: gmcokem1
 FILE LOCATION: \\uswestprod01\proj\10-5510\San Antonio Sewer Channel (Mcdones)\001\045006 Plan of Record - Sewer\Incoming Reflin
 DWG NO: 10-5510-045006-01

NOTE TO CONTRACTOR:
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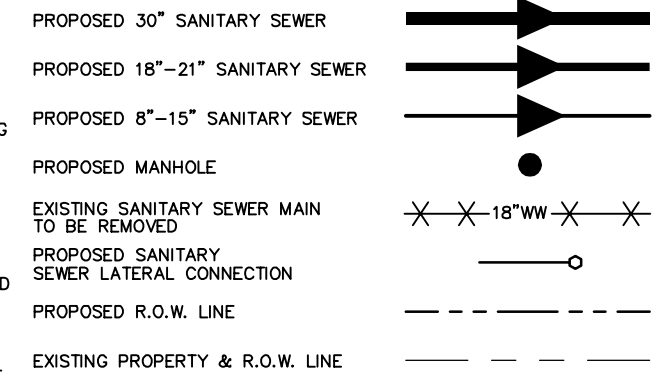
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THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR/FOREMAN IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND UNDERGROUND ELECTRIC CABLES DURING (NSPI) CONSTRUCTION. 48 HOURS BEFORE BEGINNING ANY EXCAVATION. CALL THE TEXAS WIDE STATE ONE CALL LOCATOR AT 1-800-545-6005. CONTRACTOR TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

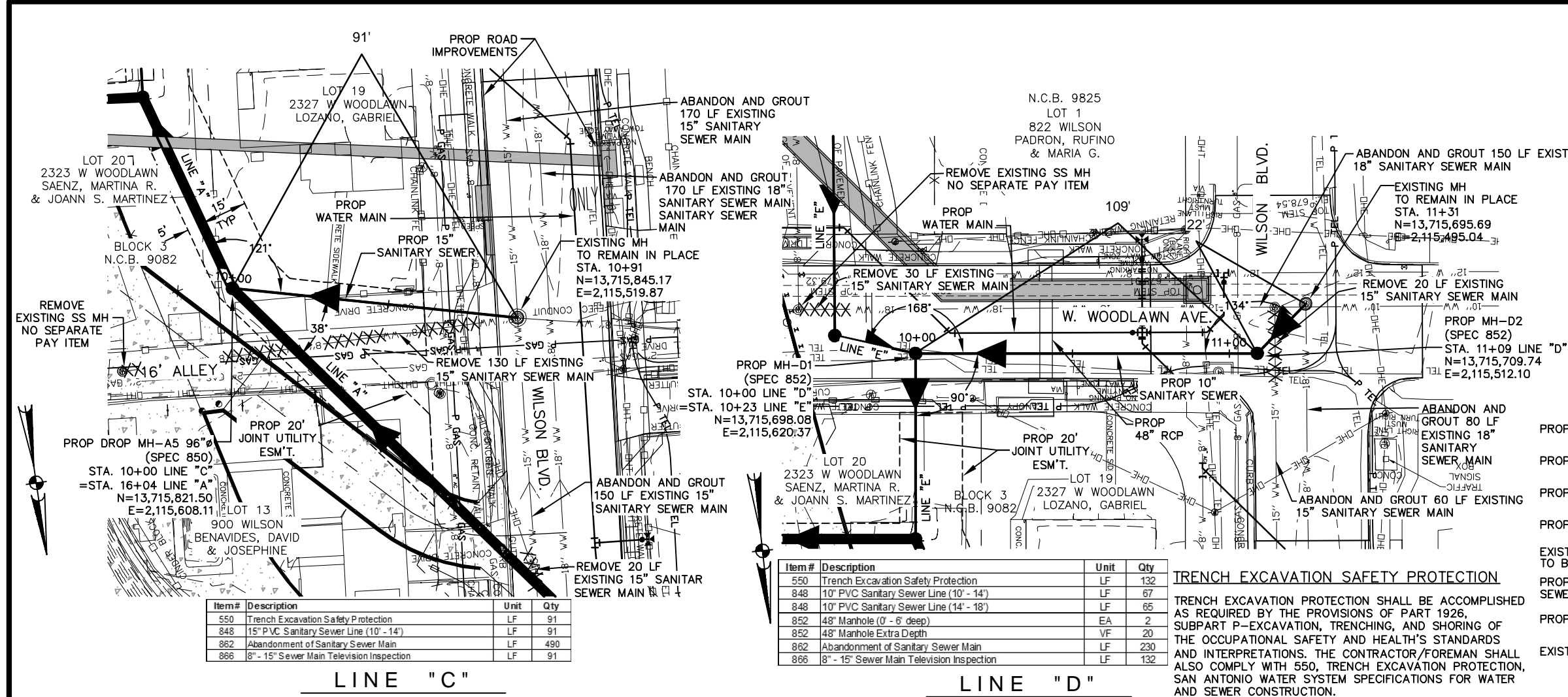
LEGEND



TRENCH EXCAVATION SAFETY PROTECTION

TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF PART 1926, SUBPART P-EXCAVATION, TRENCHING, AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS AND INTERPRETATIONS. THE CONTRACTOR/FOREMAN SHALL ALSO COMPLY WITH 550, TRENCH EXCAVATION PROTECTION, SAN ANTONIO WATER SYSTEM SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION.

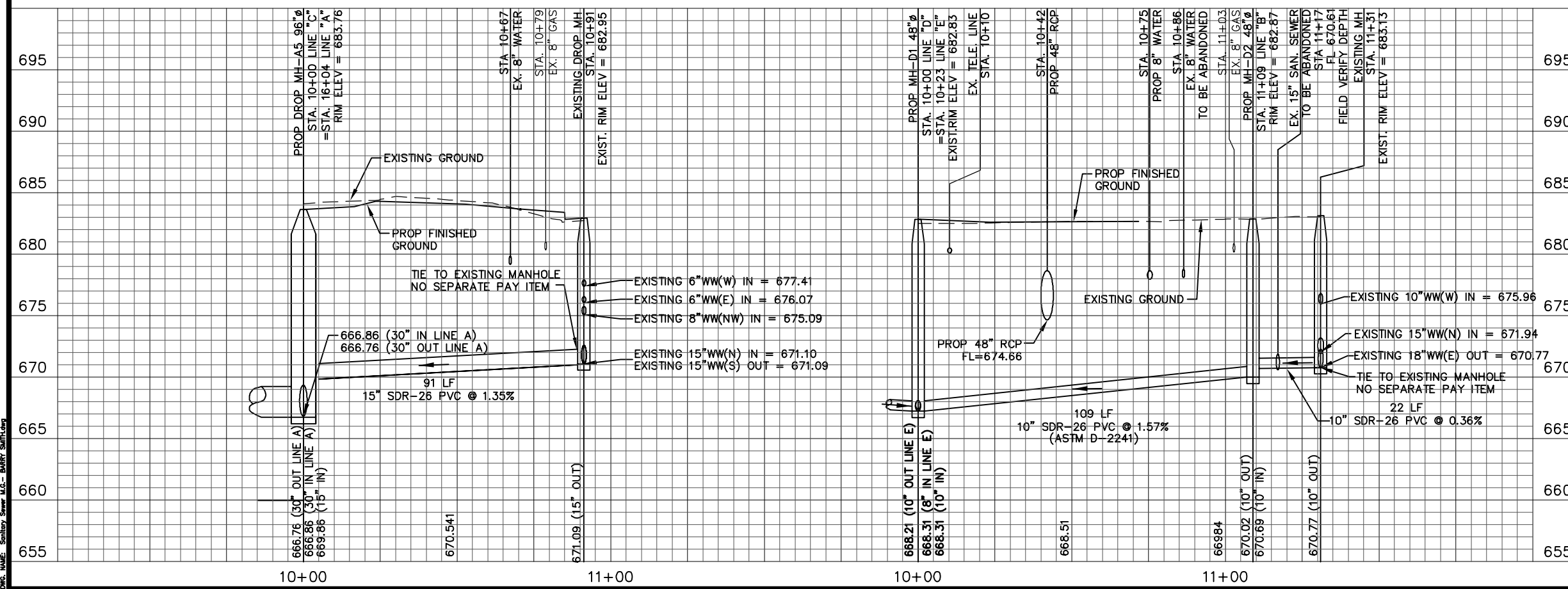
Item #	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	132
848	10" PVC Sanitary Sewer Line (10' - 14')	LF	67
848	10" PVC Sanitary Sewer Line (14' - 18')	LF	65
852	48" Manhole (0' - 6' deep)	EA	2
852	48" Manhole Extra Depth	VF	20
862	Abandonment of Sanitary Sewer Main	LF	230
866	8" - 15" Sewer Main Television Inspection	LF	132



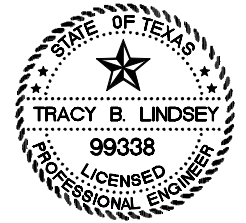
Item #	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	91
848	15" PVC Sanitary Sewer Line (10' - 14')	LF	91
862	Abandonment of Sanitary Sewer Main	LF	490
866	8" - 15" Sewer Main Television Inspection	LF	91

LINE "C"

LINE "D"



SCALE:
HORIZ: 1"=40'
VERT: 1"=10'



NO	DATE	DESCRIPTION REVISIONS	DWGCHK



AECOM TECHNICAL SERVICES, INC.
6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
WWW.AECOM.COM
TBP REG. NO. F-3580



SAN ANTONIO WATER SYSTEM
SANITARY SEWER REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I
SANITARY SEWER PLAN AND PROFILE
LINE "C" & "D"

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC
SHEET NO.		

LAST MODIFIED: May 23, 2016 - 1:27pm
 BY USER: gencolam1
 FILE LOCATION: \\ussf1p001\proj\10-5510\SSR\Sanitary Sewer Replacement\DWG\10-5510-SSR-Plan and Profile.dwg
 DWG NO: 10-5510-SSR-Plan and Profile.dwg

NOTE TO CONTRACTOR:
SEE TREE PRESERVATION PLAN FOR DETAILED DESCRIPTION AND LOCATION OF TREES AFFECTED BY PROJECT CONSTRUCTION.

CPS AND TELEPHONE COMPANY NOTES

CALL THE TEXAS WIDE STATE ONE CALL LOCATOR AT 1-800-545-6005 48 HOURS BEFORE ANY CONSTRUCTION.

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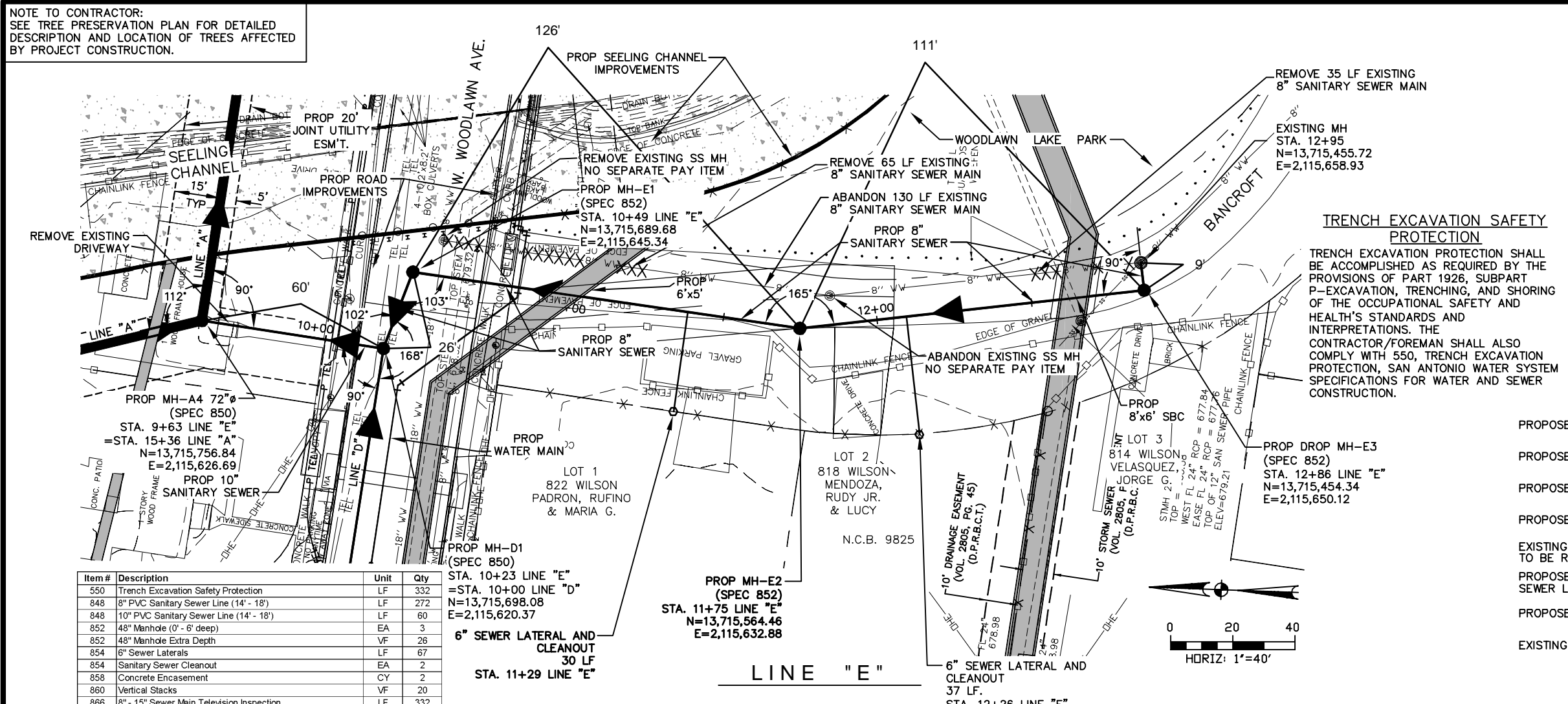
THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR/FOREMAN IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND UNDERGROUND ELECTRIC CABLES DURING (NSPI) CONSTRUCTION. 48 HOURS BEFORE BEGINNING ANY EXCAVATION. CALL THE TEXAS WIDE STATE ONE CALL LOCATOR AT 1-800-545-6005. CONTRACTOR TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY PROTECTION

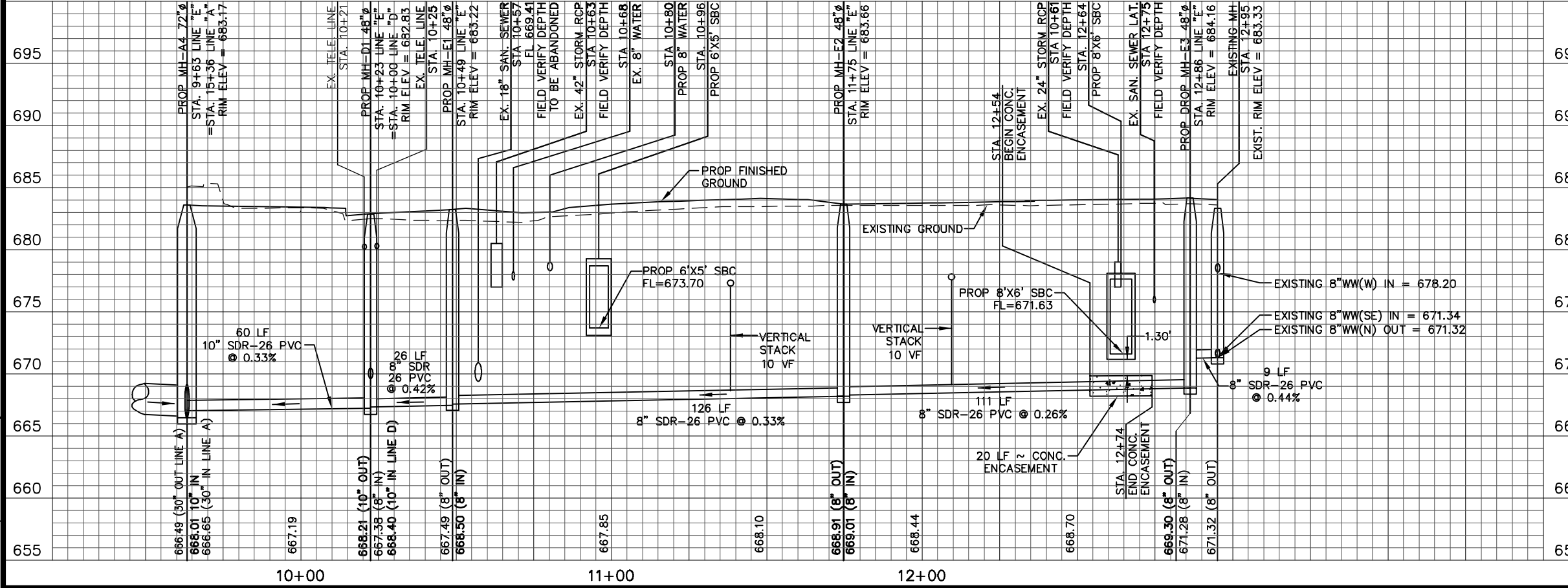
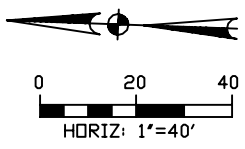
TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF PART 1926, SUBPART P-EXCAVATION, TRENCHING, AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS AND INTERPRETATIONS. THE CONTRACTOR/FOREMAN SHALL ALSO COMPLY WITH 550, TRENCH EXCAVATION PROTECTION, SAN ANTONIO WATER SYSTEM SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION.

LEGEND

- PROPOSED 30" SANITARY SEWER
- PROPOSED 18"-21" SANITARY SEWER
- PROPOSED 8"-15" SANITARY SEWER
- PROPOSED MANHOLE
- EXISTING SANITARY SEWER MAIN TO BE REMOVED
- PROPOSED SANITARY SEWER LATERAL CONNECTION
- PROPOSED R.O.W. LINE
- EXISTING PROPERTY & R.O.W. LINE



Item #	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	332
848	8" PVC Sanitary Sewer Line (14' - 18')	LF	272
848	10" PVC Sanitary Sewer Line (14' - 18')	LF	60
852	48" Manhole (0' - 6' deep)	EA	3
852	48" Manhole Extra Depth	VF	26
854	6" Sewer Laterals	LF	67
854	Sanitary Sewer Cleanout	EA	2
858	Concrete Encasement	CY	2
860	Vertical Stacks	VF	20
866	8" - 15" Sewer Main Television Inspection	LF	332



SCALE:
HORIZ: 1"=40'
VERT: 1"=10'

TRACY B. LINDSEY
99338
LICENSED PROFESSIONAL ENGINEER

NO	DATE	DESCRIPTION REVISIONS	DWGCHK

AECOM
AECOM TECHNICAL SERVICES, INC.
6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
WWW.AECOM.COM
TBP REG. NO. F-3580

SAN ANTONIO WATER SYSTEM
SANITARY SEWER REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
SEELING CHANNEL PHASE I
SANITARY SEWER PLAN AND PROFILE
LINE "E"

BID SUBMITTAL PROJECT NO.: 60184822 DATE: JULY 2012
DRWN. BY: M.G. DSGN. BY: T.W. CHKD. BY: CC SHEET NO. 12 OF 15

LAST MODIFIED: May 23, 2016 - 1:27pm BY USER: gmcokem1
 FILE: \\uswest1prod\proj\10-5510\10-5510-SS-Plan and Profile.dwg
 DWG: 10-5510-SS-Plan and Profile.dwg
 PLOT: 10-5510-SS-Plan and Profile.dwg

NOTE TO CONTRACTOR:
SEE TREE PRESERVATION PLAN FOR DETAILED DESCRIPTION AND LOCATION OF TREES AFFECTED BY PROJECT CONSTRUCTION.

CPS AND TELEPHONE COMPANY NOTES

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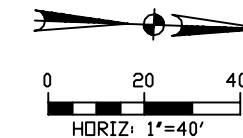
LEGEND

- PROPOSED 30" SANITARY SEWER
- PROPOSED 18"-21" SANITARY SEWER
- PROPOSED 8"-15" SANITARY SEWER
- PROPOSED MANHOLE
- EXISTING SANITARY SEWER MAIN TO BE REMOVED
- PROPOSED SANITARY SEWER LATERAL CONNECTION
- PROPOSED R.O.W. LINE
- EXISTING PROPERTY & R.O.W. LINE

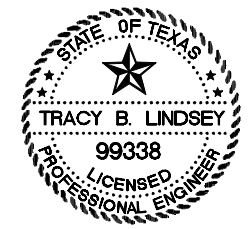
Item#	Description	Unit	Qty
550	Trench Excavation Safety Protection	LF	133
848	15" PVC Sanitary Sewer Line (6' - 10')	LF	13
848	15" PVC Sanitary Sewer Line (10' - 14')	LF	120
852	48" Manhole (0' - 6' deep)	EA	2
852	48" Manhole Extra Depth	VF	10
886	8' - 15' Sewer Main Television Inspection	LF	120

TRENCH EXCAVATION SAFETY PROTECTION

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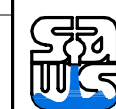
SCALE:
HORIZ: 1"=40'
VERT: 1"=10'



NO	DATE	DESCRIPTION REVISIONS	DWGCHK



AECOM TECHNICAL SERVICES, INC.
6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
WWW.AECOM.COM
TBP REG. NO. F-3580

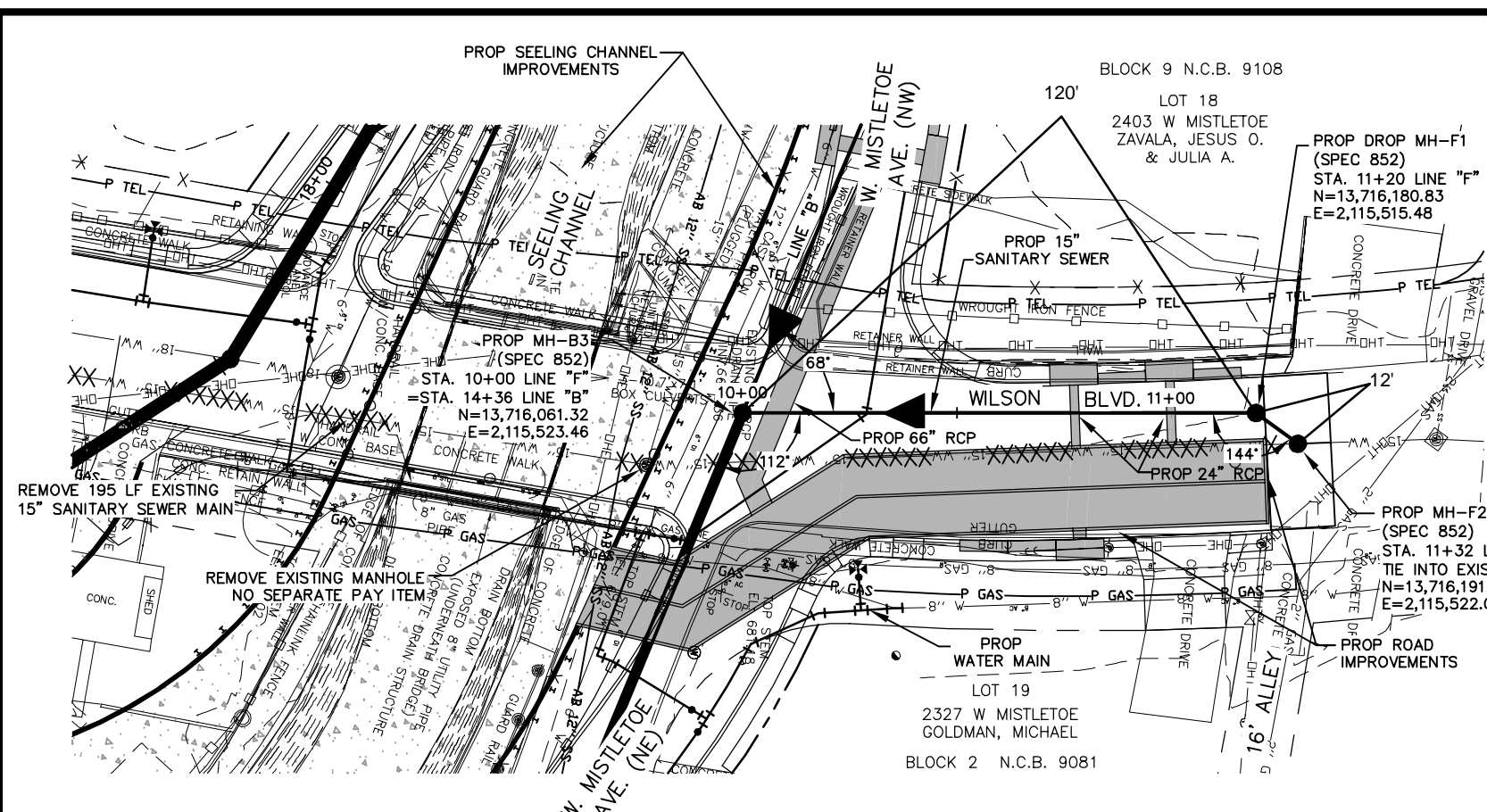


SAN ANTONIO WATER SYSTEM
SANITARY SEWER REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

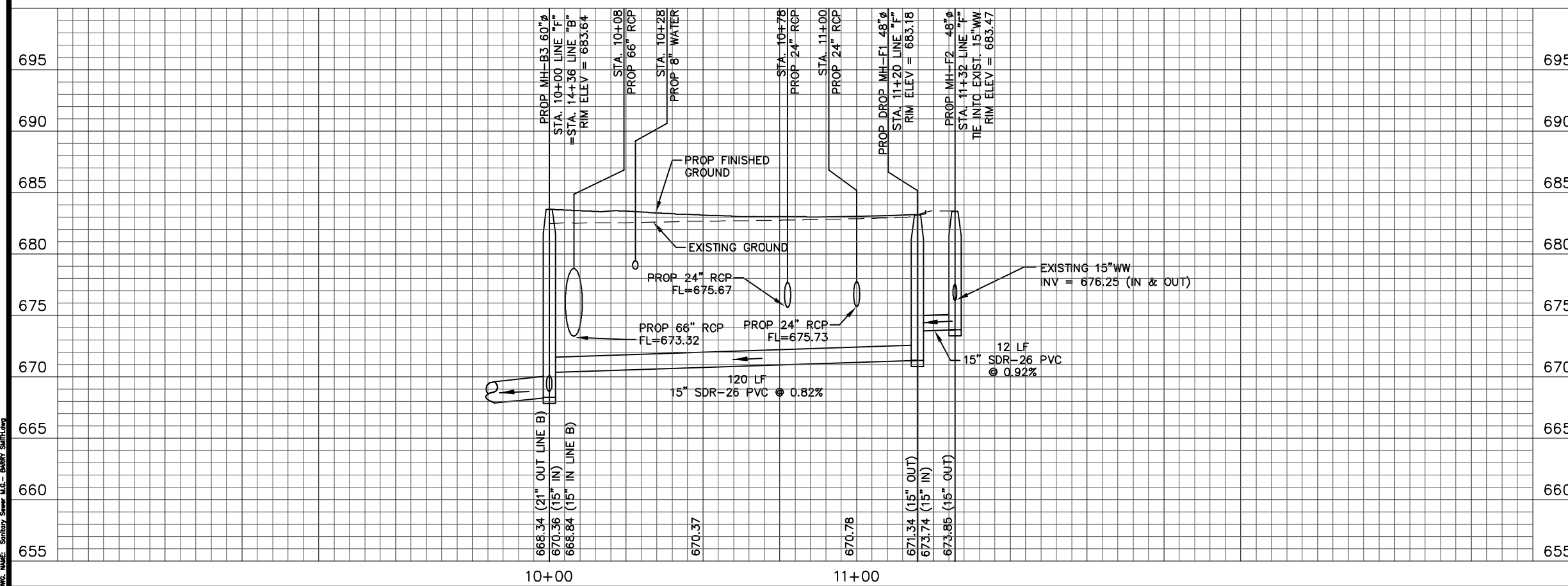
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I
SANITARY SEWER PLAN AND PROFILE
LINE "F"

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC



LINE "F"



LAST MODIFIED: May 23, 2016 - 1:39pm BY USER: gencostm1
 FILE LOCATION: \\ussf1p001\proj\10-5510\Sanitary Sewer Channel (Mistoletoe)\Plan of Record\10145086 Plan of Record - Sewer\Incoming Redlin
 DWG NO: 10-5510-SS-PLAN-01

NOTE TO CONTRACTOR:
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Item#	Description	Unit	Qty
851	Adjust Existing Manholes	EA	4
855	Reconstruct Existing Manhole	EA	2

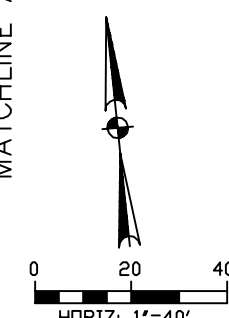
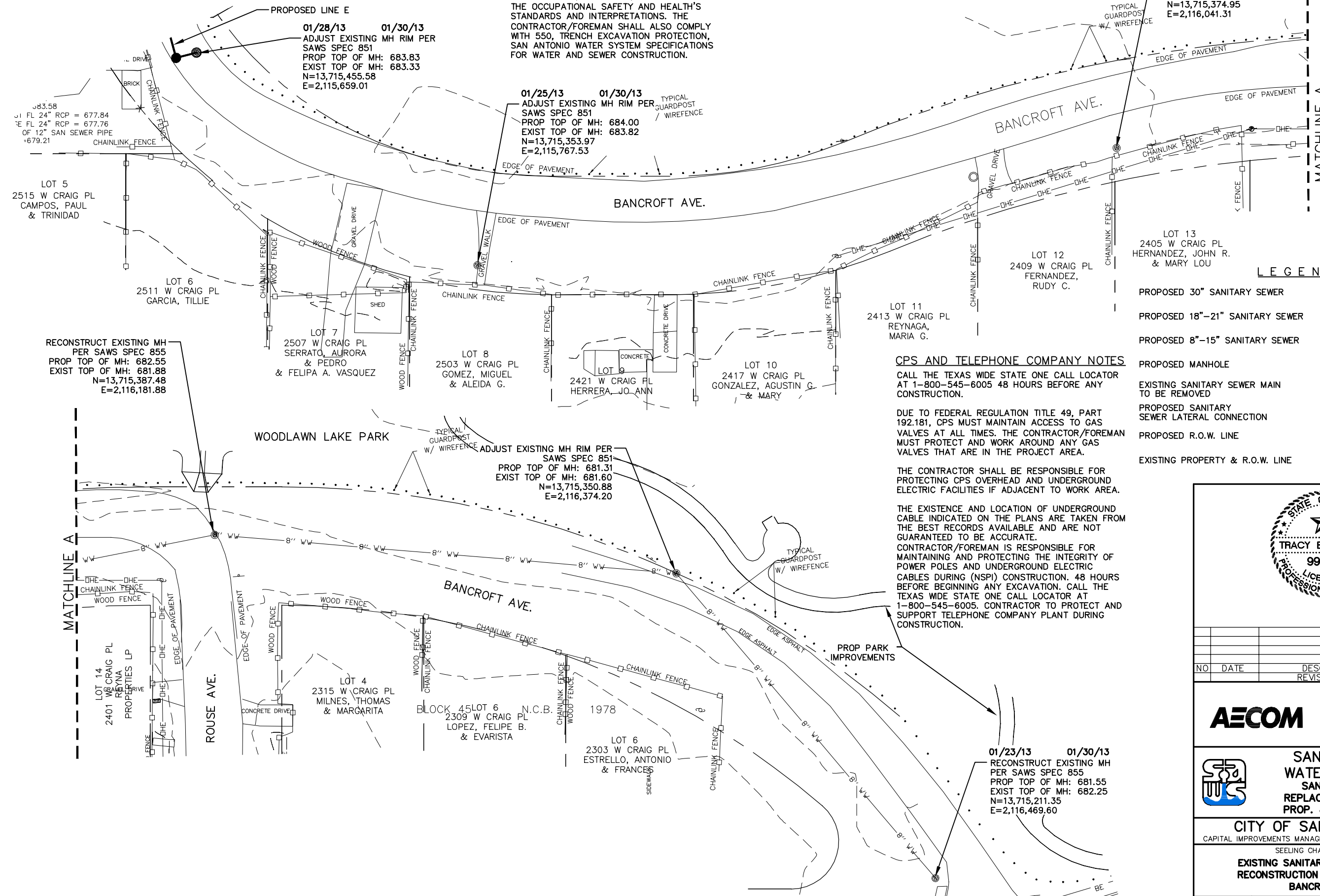
01/25/13 01/30/13
ADJUST EXISTING MH RIM PER
SAWS SPEC 851
PROP TOP OF MH: 683.40
EXIST TOP OF MH: 683.30
N=13,715,374.95
E=2,116,041.31

01/28/13 01/30/13
ADJUST EXISTING MH RIM PER
SAWS SPEC 851
PROP TOP OF MH: 683.83
EXIST TOP OF MH: 683.33
N=13,715,455.58
E=2,115,659.01

01/25/13 01/30/13
ADJUST EXISTING MH RIM PER
SAWS SPEC 851
PROP TOP OF MH: 684.00
EXIST TOP OF MH: 683.82
N=13,715,353.97
E=2,115,767.53

ADJUST EXISTING MH RIM PER
SAWS SPEC 851
PROP TOP OF MH: 681.31
EXIST TOP OF MH: 681.60
N=13,715,350.88
E=2,116,374.20

01/23/13 01/30/13
RECONSTRUCT EXISTING MH
PER SAWS SPEC 855
PROP TOP OF MH: 681.55
EXIST TOP OF MH: 682.25
N=13,715,211.35
E=2,116,469.60



LEGEND

PROPOSED 30" SANITARY SEWER	
PROPOSED 18"-21" SANITARY SEWER	
PROPOSED 8"-15" SANITARY SEWER	
PROPOSED MANHOLE	
EXISTING SANITARY SEWER MAIN TO BE REMOVED	
PROPOSED SANITARY SEWER LATERAL CONNECTION	
PROPOSED R.O.W. LINE	
EXISTING PROPERTY & R.O.W. LINE	

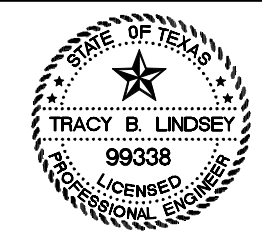
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NO	DATE	DESCRIPTION REVISIONS	DWGCHK

AECOM
AECOM TECHNICAL SERVICES, INC.
6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
WWW.AECOM.COM
TBP REG. NO. F-3580

SAN ANTONIO WATER SYSTEM
SANITARY SEWER REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

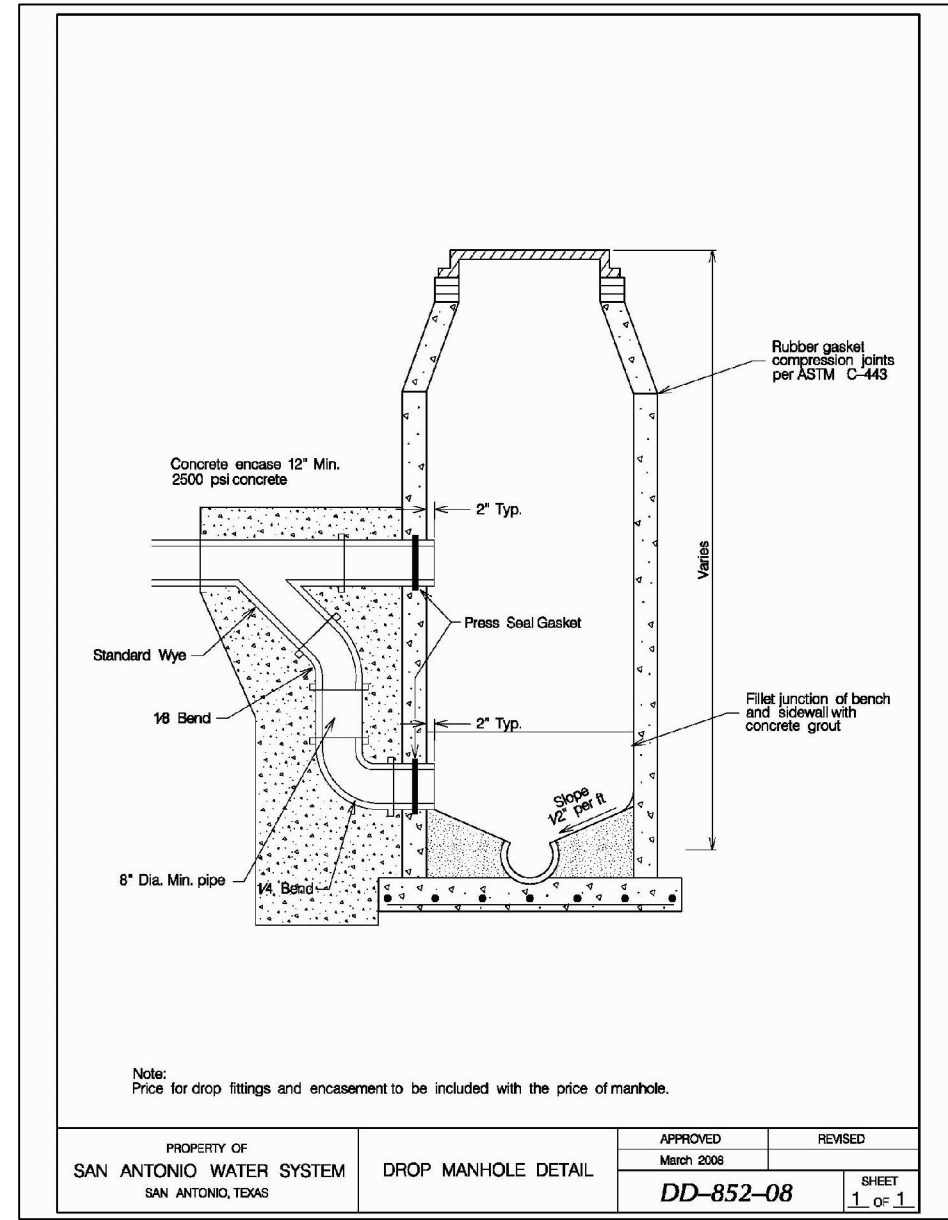
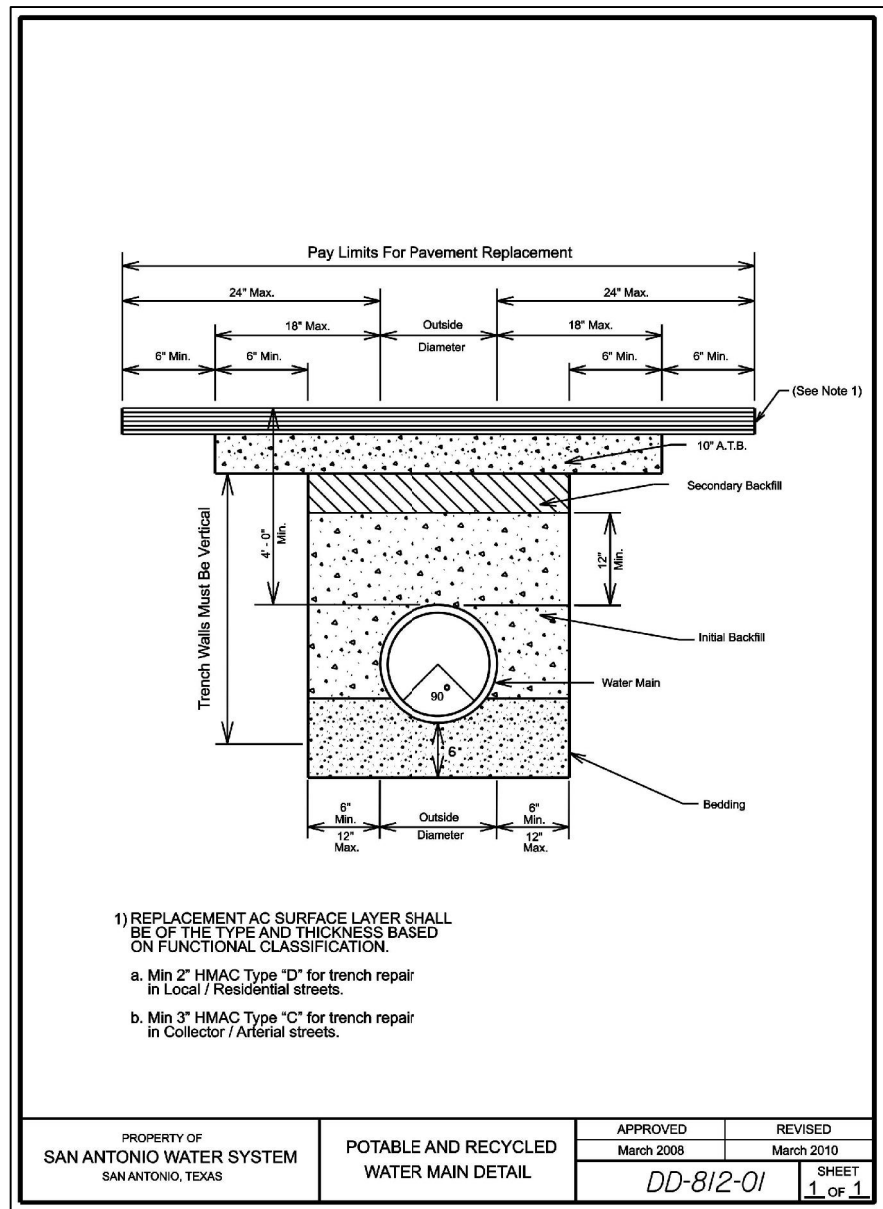
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
SEELING CHANNEL PHASE I

EXISTING SANITARY SEWER MANHOLE RECONSTRUCTION AND ADJUSTMENTS
BANCROFT AVE.

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012
DRWN. BY: M.G.	DGN. BY: T.W.	CHKD. BY: CC

LAST MODIFIED: May 23, 2016 - 1:09pm
 BY USER: gonzokem1
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LAST MODIFIED: May 23, 2016 - 1:39pm BY USER: gencokem1
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 DWG. NAME: Sewer Incoming Detail.dwg



DROP MANHOLE DETAIL 852-08 IS ALSO APPLICABLE TO SANITARY SEWER STRUCTURES.

STATE OF TEXAS
TRACY B. LINDSEY
99338
LICENSED PROFESSIONAL ENGINEER

NO	DATE	DESCRIPTION	DWG/CHK

AECOM

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 6800 PARK TEN BLVD., SUITE 180 SOUTH
 SAN ANTONIO, TEXAS 78213
 WWW.AECOM.COM
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SAN ANTONIO WATER SYSTEM
SANITARY SEWER REPLACEMENT PROJECT
 PROP. JOB NO. 10-5510

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 SEELING CHANNEL PHASE I

DETAILS

15 OF 15

BID SUBMITTAL	PROJECT NO.: 60184822	DATE: JULY 2012	
DRWN. BY: M.G.	DSGN. BY: T.W.	CHKD. BY: CC	SHEET NO.