

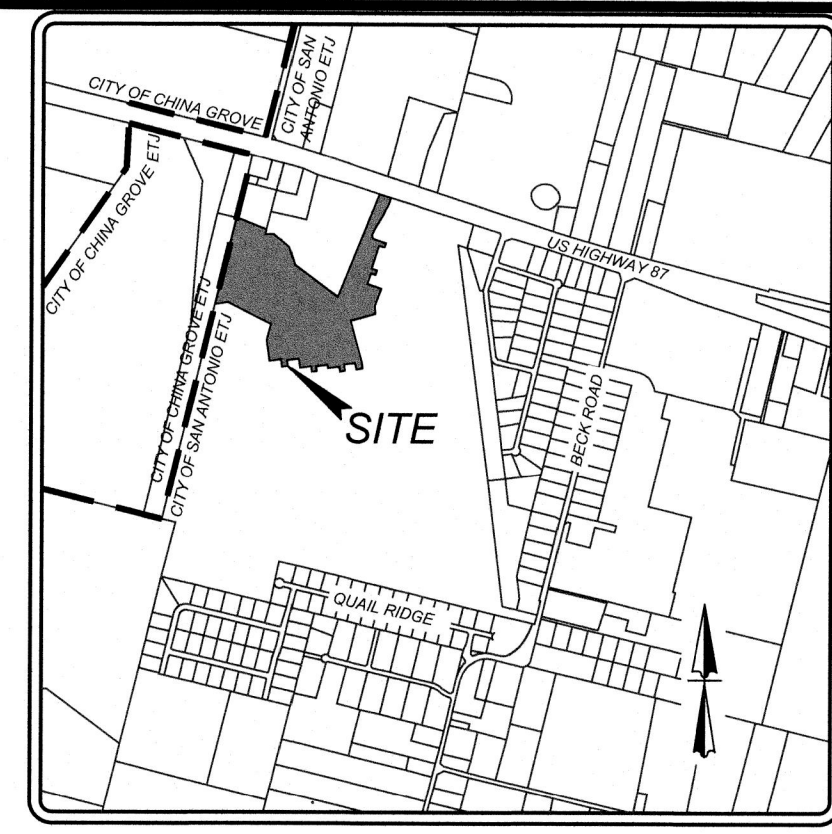
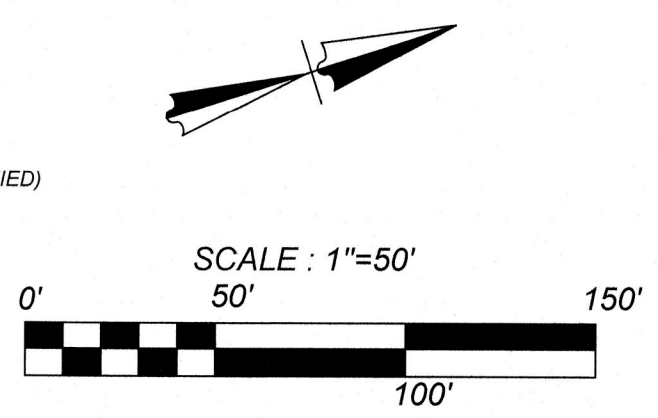
CAUTION!!! THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRICAL, DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

MANHOLE NOTE:
ALL MANHOLES MUST BE WATERTIGHT, WITH WATERTIGHT RINGS AND COVERS. THESE MANHOLES MUST BE VENTED PER SAWS DETAIL DD852-02.

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY 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.

- NOTE:
1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (S.A.W.S.) STANDARD SPECIFICATION.
 2. SEWER PIPE WHERE WATER LINE CROSSES SHALL MEET THE REQUIREMENTS OF ASTM D2241. CONTRACTOR SHALL CENTER A 20 FOOT JOINT OF 160 P.S.I. PRESSURE RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM). REFERENCE SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS.
 3. SEE THIS SHEET FOR BENCHMARK INFORMATION.
 4. PIPE TYPE DESIGNATIONS ARE SDR 26.
 5. SEE THIS SHEET FOR TYPICAL SANITARY SEWER / WATER CROSSING DETAIL.
 6. ALL MANHOLES SHALL HAVE CONCRETE RING ENCASUREMENT AND A WATER TIGHT RING AND COVER.

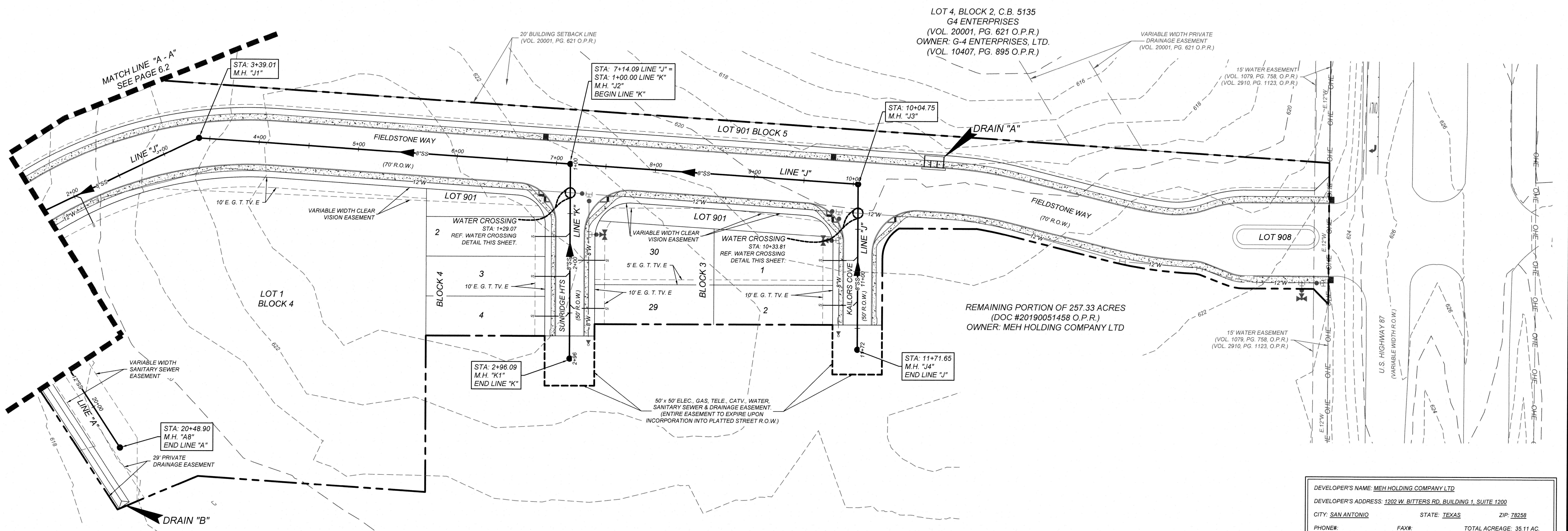
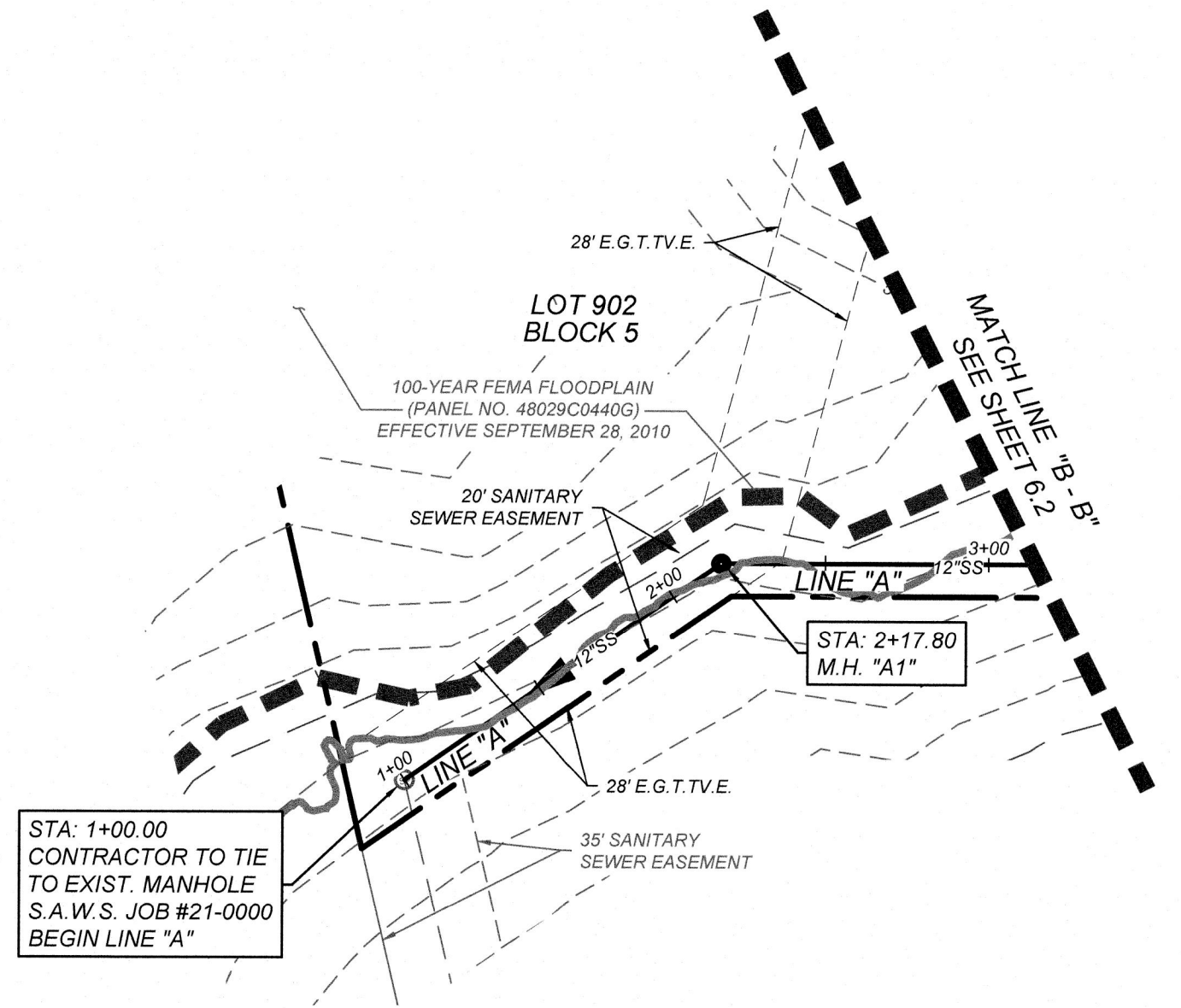
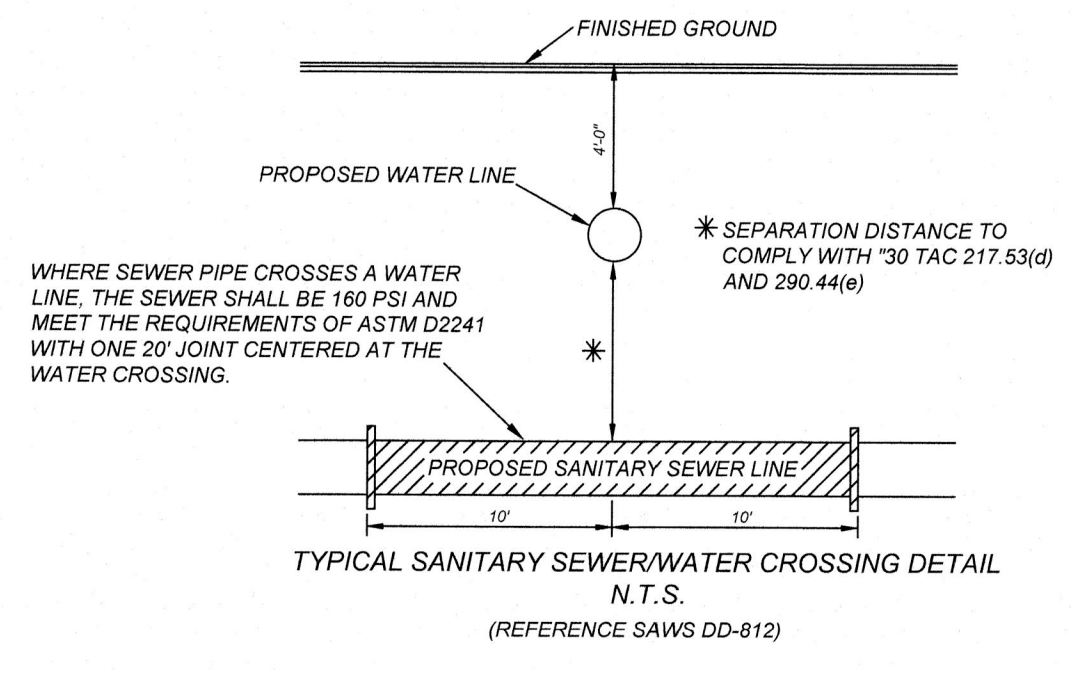
REFERENCE S.A.W.S. DETAILS
DD-804-01 SANITARY SEWER PIPE Laid IN TRENCH
DD-804-02 TRENCH COMPACTION DETAIL
DD-849-01 GO, NO GO DEFLECTION TESTING MANDREL
DD-852-01 STANDARD PRECAST MANHOLE
DD-852-02 VENTED MANHOLE RING AND COVER DETAIL (WHEN SPECIFIED)
DD-852-03 MANHOLE RING ENCASUREMENT DETAIL
DD-854-ER2D HOUSE LATERAL DETAIL (IN THE E.A.R.Z.)
DD-858-01 TYPICAL CONCRETE ENCASUREMENT DETAILS
DD-858-02 TYPICAL CONCRETE DETAILS
DD-860-01 TYPICAL VERTICAL STACK DETAILS
DD-852-06 PRECAST MANHOLE BASE 45° ANGLE
DD-852-08 DROP MANHOLE DETAIL
DD-852-07 MANHOLE RING AND COVER DETAIL



LOCATION MAP
NOT-TO-SCALE

LEGEND

- | | | |
|--|---|----------------|
| PROPOSED WATER MAIN | = | W |
| PROPOSED WATER SERVICE & METER BOX | = | W-S |
| PROPOSED WATER 3/4" IRRIGATION SERVICE & METER BOX | = | W-3/4 |
| PROPOSED FIRE HYDRANT | = | FH |
| PROPOSED WATER VALVE | = | WV |
| PROPOSED SANITARY SEWER MAIN | = | SS |
| PROPOSED SANITARY SEWER MANHOLE | = | SM |
| PROPOSED SANITARY SEWER LATERAL | = | SL |
| PROPOSED ELECTRIC, GAS, TELEPHONE, & CABLE TV EASEMENT | = | E, G, T, TV, E |
| EXISTING WATER MAIN | = | EW |
| EXISTING FIRE HYDRANT | = | FH |
| EXISTING WATER VALVE | = | WV |
| EXISTING SANITARY SEWER MAIN | = | E-SS |
| EXISTING SANITARY SEWER MANHOLE | = | E-SM |
| EXISTING OVERHEAD ELECTRIC W/POWER POLE | = | OHE |
| EXISTING GUY WIRE/OVERHEAD ELECTRIC | = | OHE |



DEVELOPER'S NAME: MEH HOLDING COMPANY LTD			
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD. BUILDING 1, SUITE 1200			
CITY: SAN ANTONIO	STATE: TEXAS	ZIP: 78258	
PHONE#:	FAX#:	TOTAL ACREAGE: 35.11 AC.	
SAWS BLOCK MAP# 216562, 216560, 214560		TOTAL EDUS: 95	
TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. - 8" SDR 26		PLAT NO.: 21-11800645	
NUMBER OF LOTS: 95		1,235 L.F. - 12" SDR 26	
		SAWS JOB# 21-1726	

ENGINEERS & SURVEYING
Phone #: (210) 979-9444 • Fax #: (210) 979-9441
TBPCE Firm # 9613 • TBPCE Firm # 102230

Clayton J. Linney
6/29/2023

ISSUE DATE

REVISIONS

PLAT NO.
21-11800645

JOB NO. 205-43-04

DATE: OCTOBER 2021

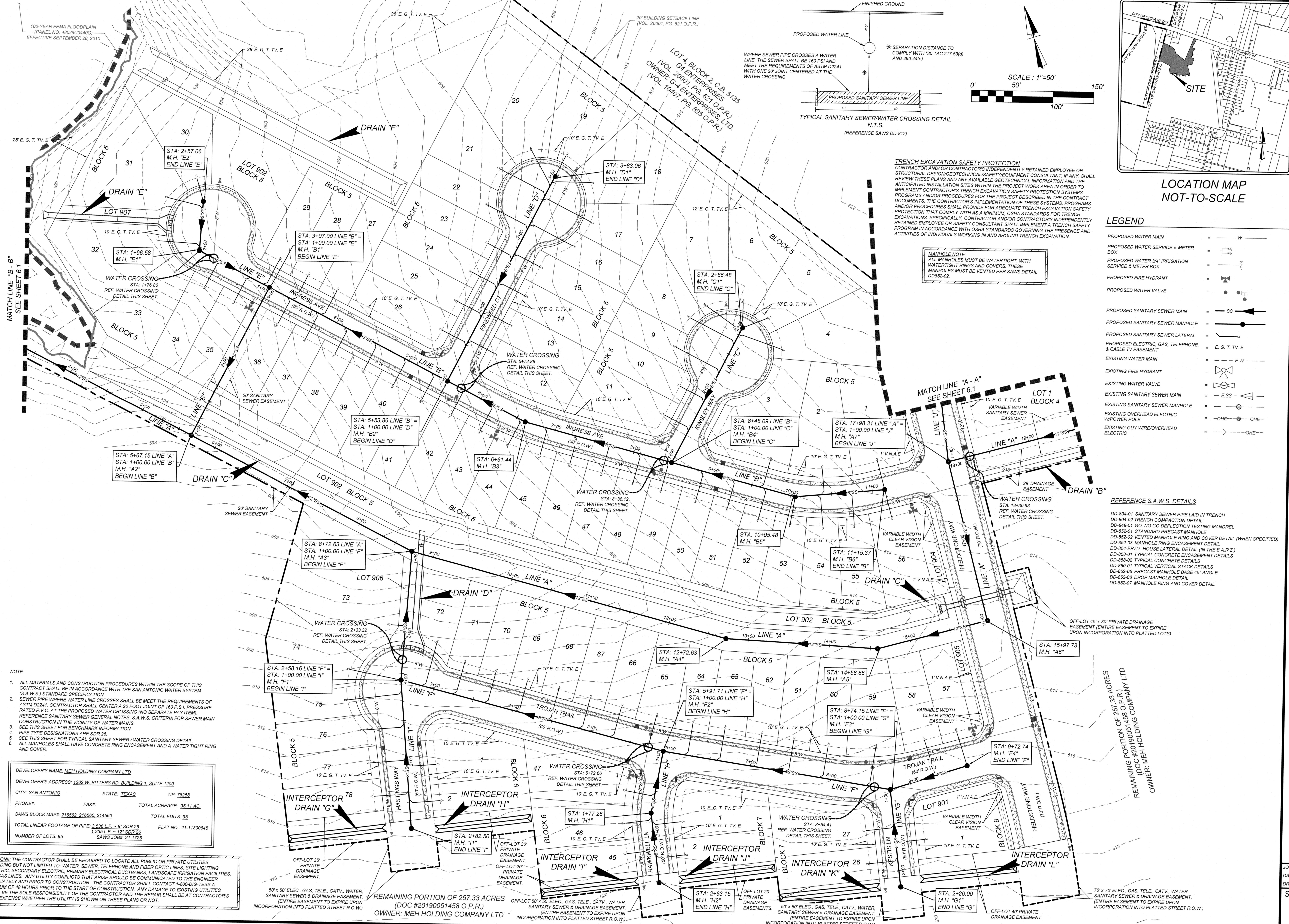
DRAWN OM CHECKED CL

SHEET NUMBER:

6.1

GATES SUBDIVISION UNIT 1
BEXAR COUNTY, TX

OVERALL SANITARY SEWER PLAN (SHEET 1 OF 2)

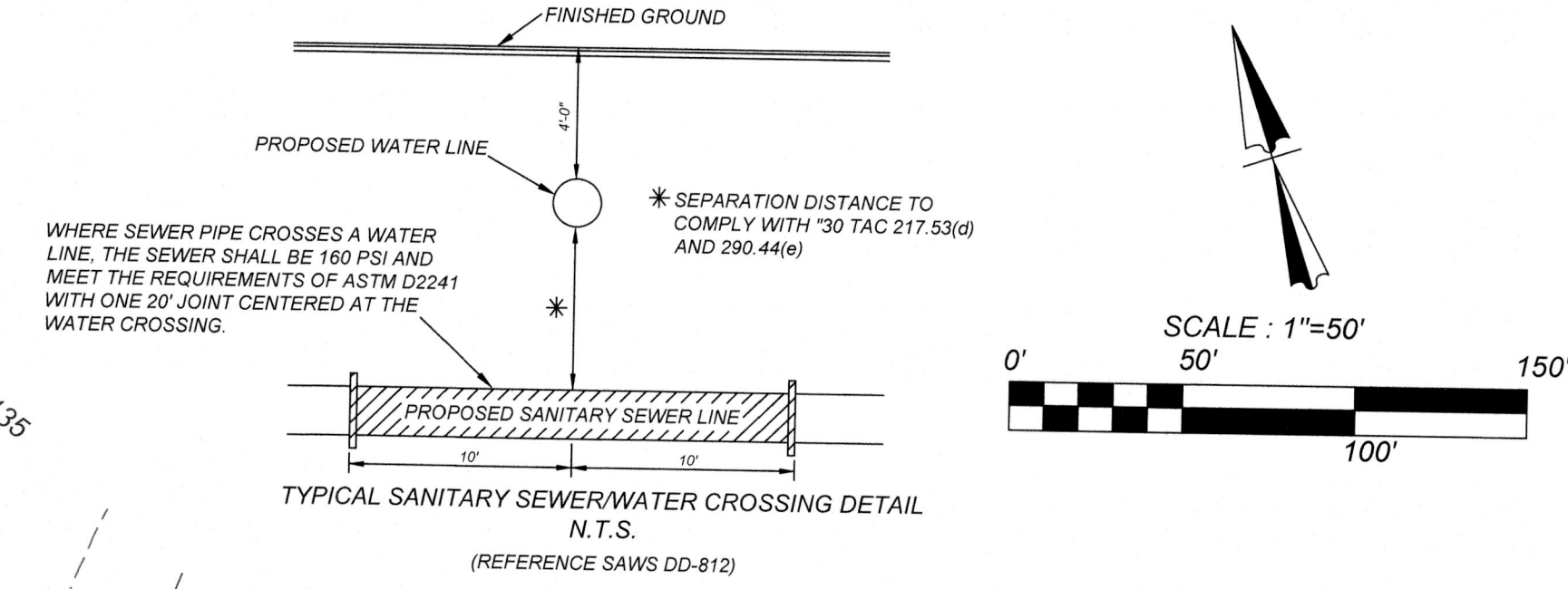


NOTE:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (S.A.W.S.) STANDARD SPECIFICATION.
2. SEWER PIPE WHERE WATER LINE CROSSES SHALL MEET THE REQUIREMENTS OF ASTM D2241. CONTRACTOR SHALL CENTER A 20 FOOT JOINT OF 180 P.S.I. PRESSURE RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM). REFERENCE SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS.
3. SEE THIS SHEET FOR BENCHMARK INFORMATION.
4. PIPE TYPE DESIGNATIONS ARE SDR 26.
5. SEE THIS SHEET FOR TYPICAL SANITARY SEWER / WATER CROSSING DETAIL.
6. ALL MANHOLES SHALL HAVE CONCRETE RING ENCASUREMENT AND A WATER TIGHT RING AND COVER.

DEVELOPER'S NAME: MEH HOLDING COMPANY LTD
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD. BUILDING 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258
PHONE: FAX: TOTAL ACRES: 35.11 AC.
SAWS BLOCK MAP# 215562, 215560, 214560 TOTAL EDU'S: 95
TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. - 8" SDR 26 PLAT NO.: 21-11800645
NUMBER OF LOTS: 95 1,235 L.F. - 12" SDR 26 SAWS JOB# 21-1726

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MANHOLE NOTE
ALL MANHOLES MUST BE WATERTIGHT, WITH WATERTIGHT RINGS AND COVERS. THESE MANHOLES MUST BE VENTED PER SAWS DETAIL D0852-02.

LEGEND

PROPOSED WATER MAIN	W
PROPOSED WATER SERVICE & METER BOX	W-S
PROPOSED WATER 3/4" IRRIGATION SERVICE & METER BOX	W-3/4"
PROPOSED FIRE HYDRANT	FH
PROPOSED WATER VALVE	WV
PROPOSED SANITARY SEWER MAIN	SS
PROPOSED SANITARY SEWER MANHOLE	SS-MH
PROPOSED SANITARY SEWER LATERAL	SS-L
PROPOSED ELECTRIC, GAS, TELEPHONE, & CABLE TV EASEMENT	E.G.T.V.E
EXISTING WATER MAIN	E-W
EXISTING FIRE HYDRANT	FH
EXISTING WATER VALVE	WV
EXISTING SANITARY SEWER MAIN	E-SS
EXISTING SANITARY SEWER MANHOLE	E-SS-MH
EXISTING OVERHEAD ELECTRIC W/POWER POLE	OHE
EXISTING GUY WIRE/OVERHEAD ELECTRIC	OHE

REFERENCE S.A.W.S. DETAILS

- DD-804-01 SANITARY SEWER PIPE Laid IN TRENCH
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- DD-848-01 GO, NO GO DEFLECTION TESTING MANDREL
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- DD-852-03 MANHOLE RING ENCASUREMENT DETAIL
- DD-854-ERD2 HOUSE LATERAL DETAIL (IN THE E.A.R.Z.)
- DD-858-01 TYPICAL CONCRETE ENCASUREMENT DETAILS
- DD-858-02 TYPICAL CONCRETE DETAILS
- DD-860-01 TYPICAL VERTICAL STACK DETAILS
- DD-852-06 PRECAST MANHOLE BASE 45° ANGLE
- DD-852-08 DROP MANHOLE DETAIL
- DD-852-07 MANHOLE RING AND COVER DETAIL

REMAINING PORTION OF 257.33 ACRES
(DOC #20190051458 O.P.R.)
OWNER: MEH HOLDING COMPANY LTD

GATES SUBDIVISION UNIT 1
BEXAR COUNTY, TX
OVERALL SANITARY SEWER PLAN (SHEET 2 OF 2)

PLAT NO.
21-11800645
JOB NO. 205-43-04
DATE: OCTOBER 2021
DRAWN BY: CHECKED BY:
SHEET NUMBER:

K&W
ENGINEERS + SURVEYING
1821 Pan American Freeway, Suite 200, San Antonio, TX 78231
Phone: 210-491-1111
TBE# Firm # 9513 • TBE#S Firm # 102230

STATE OF TEXAS
CLAYTON J. LUNNEY
11543
LICENSED PROFESSIONAL ENGINEER
Clayton J. Lunney
6/29/2023

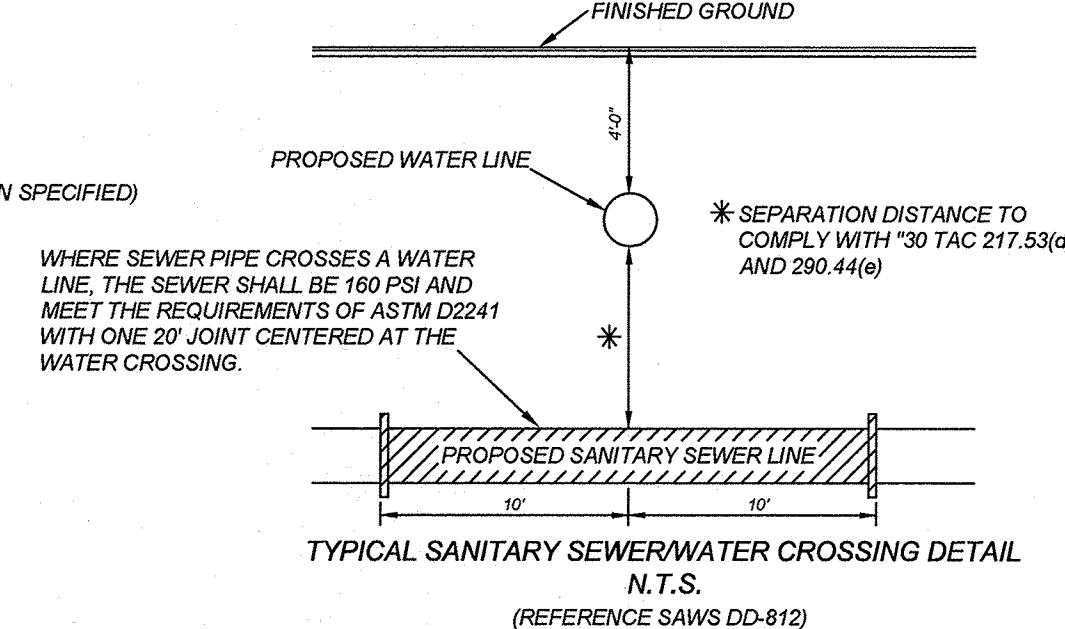
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NOTE:

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4. PIPE TYPE DESIGNATIONS ARE SDR 26.
5. SEE THIS SHEET FOR TYPICAL SANITARY SEWER / WATER CROSSING DETAIL.
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REFERENCE S.A.W.S. DETAILS

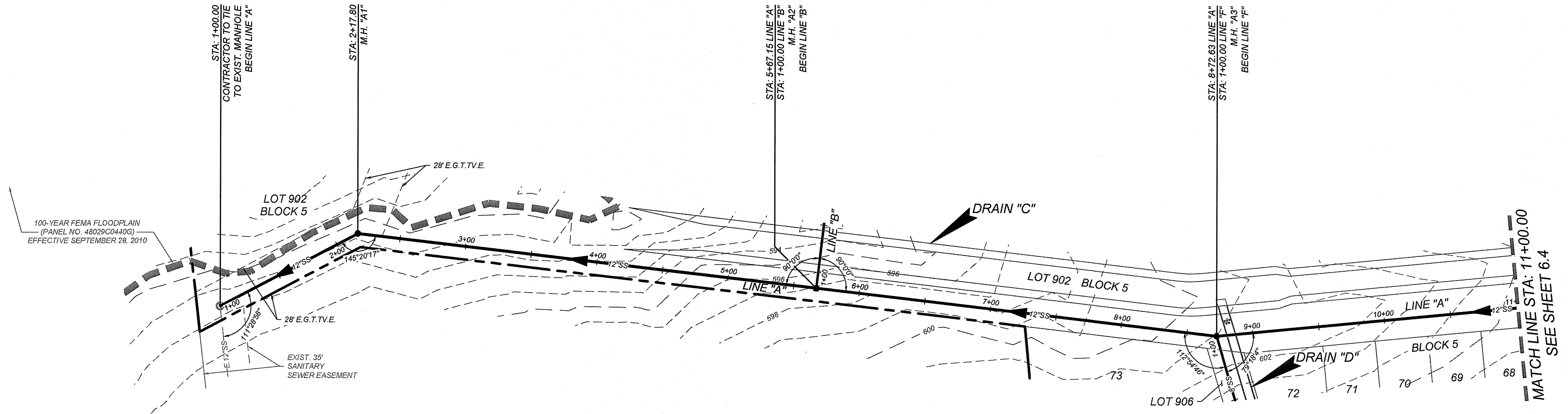
DD-804-01 SANITARY SEWER PIPE LAID IN TRENCH
DD-804-02 TRENCH COMPACTION DETAIL
DD-848-01 GO, NO GO DEFLECTION TESTING MANDREL
DD-852-01 STANDARD PRECAST MANHOLE
DD-852-02 VENTED MANHOLE RING AND COVER DETAIL (WHEN SPECIFIED)
DD-852-03 MANHOLE RING ENCASUREMENT DETAIL
DD-854-ERD2 HOUSE LATERAL DETAIL (IN THE E.A.R.Z.)
DD-858-01 TYPICAL CONCRETE ENCASUREMENT DETAILS
DD-858-02 TYPICAL CONCRETE DETAILS
DD-880-01 TYPICAL VERTICAL STACK DETAILS
DD-882-06 PRECAST MANHOLE BASE 45° ANGLE
DD-852-08 DROP MANHOLE DETAIL
DD-852-07 MANHOLE RING AND COVER DETAIL



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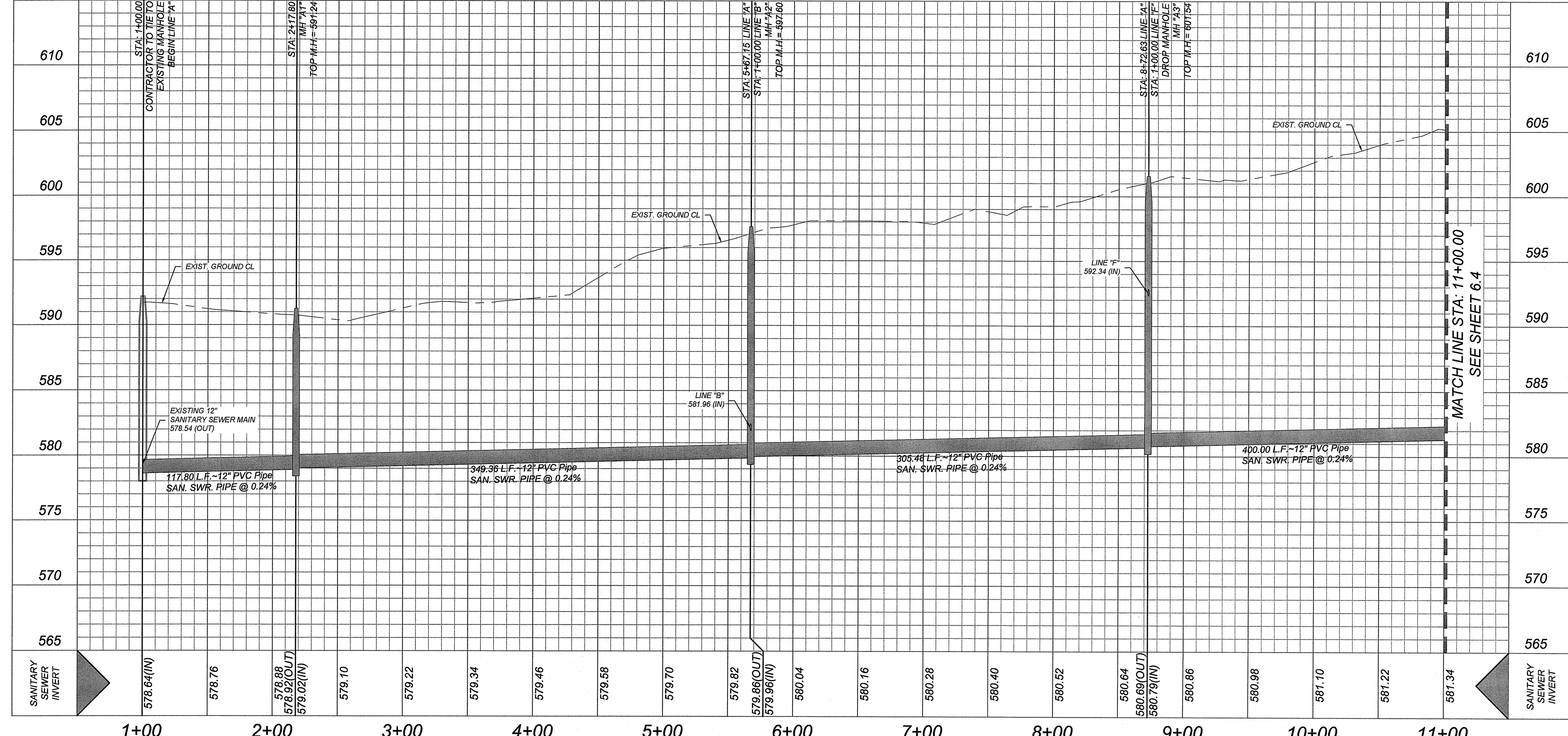
MANHOLE NOTE:
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DEVELOPER'S NAME: MEH HOLDING COMPANY LTD
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD, BUILDING 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258
PHONE: FAX: TOTAL ACREAGE: 35.11 AC.
SAWS BLOCK MAP: 216562, 216560, 214560 TOTAL E.D.U.S: 95
TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. ~ 8" SDR 26 PLAT NO.: 21-11800645
1,235 L.F. ~ 12" SDR 26
NUMBER OF LOTS: 95 SAWS JOB#: 21-1728



LINE "A"
STA: 1+00.00 - 11+00.00

HORZ SCALE: 1"=50'
VERT SCALE: 1"=5'



K&W
ENGINEERS & SURVEYING
176231
Phone #: (210) 978-9444 • Fax #: (210) 978-9444
TBPE Firm #: 9513 • TBPE License #: 10122300

ISSUE DATE
REVISIONS
STATE OF TEXAS
CLAYTON J. LINNEY
111543
LICENSED PROFESSIONAL ENGINEER
Clayton J. Linney
4/25/2021

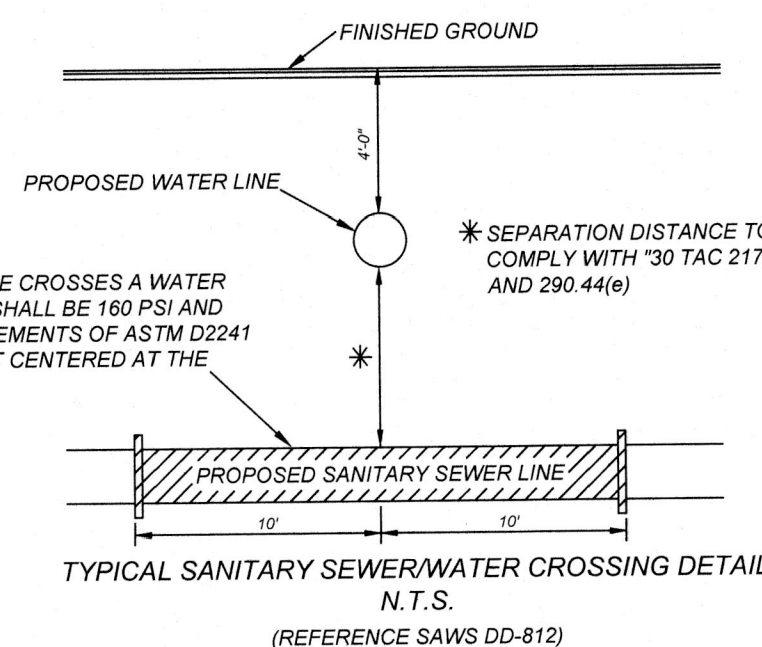
GATES SUBDIVISION UNIT 1
BEXAR COUNTY, TX
LINE "A" PLAN & PROFILE (SHEET 1 OF 2)

PLAT NO.
21-11800645
JOB NO. 205-43-04
DATE: OCTOBER 2021
DRAWN: OM CHECKED: CL
SHEET NUMBER:
6.3

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ENGINEERING/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR THE PROTECTION SYSTEMS WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS. PROGRAMS AND PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION SYSTEMS AND PROCEDURES. CONTRACTOR SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL BE RESPONSIBLE FOR THE PROTECTION SYSTEMS AND PROCEDURES. CONTRACTOR'S RESPONSIBILITIES GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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2. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE MEET THE REQUIREMENTS OF SEWER MAIN CONTRACT. CONTRACT SHALL BE ENTER A 20 FOOT (JUMP OF 160 P.S.I. PRESSURE RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM).
3. EXISTING SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS.
4. SEE THIS SHEET FOR BENCHMARK INFORMATION.
5. PIPE TYPE DESIGNATIONS ARE SDR 26
6. SEE THIS SHEET FOR TYPICAL SANITARY SEWER/WATER CROSSING DETAIL.
7. ALL JOINTS SHALL HAVE CONCRETE RING ENCASEMENT AND A WATER TIGHT RING AND COVER.

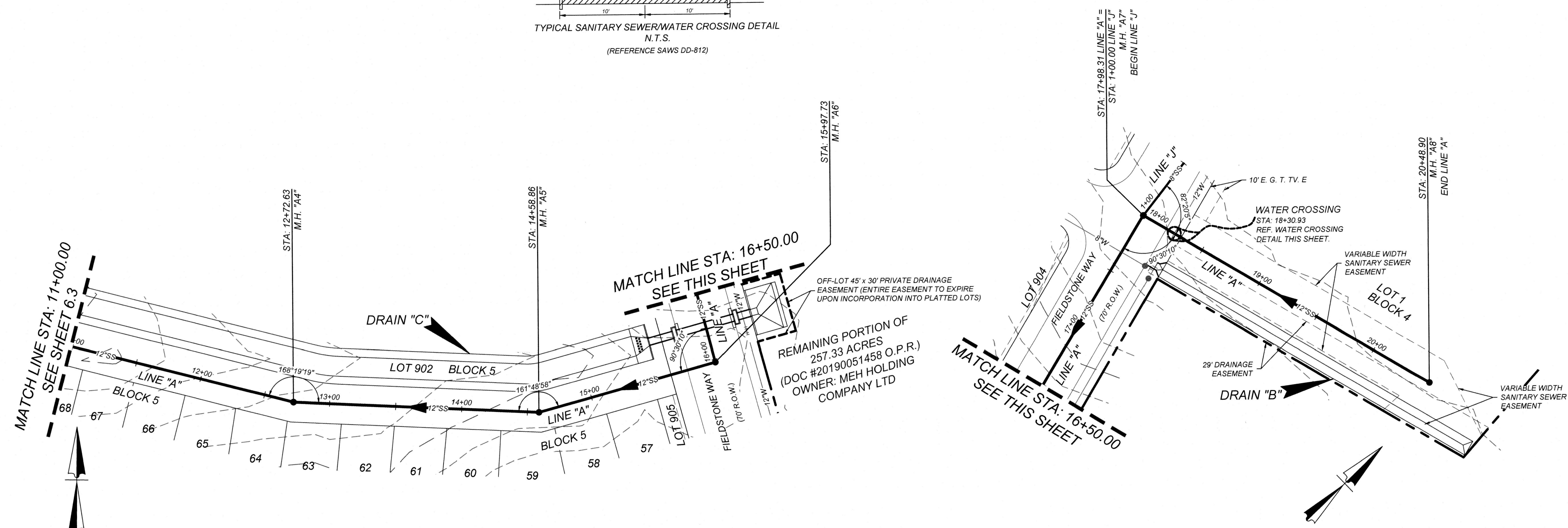
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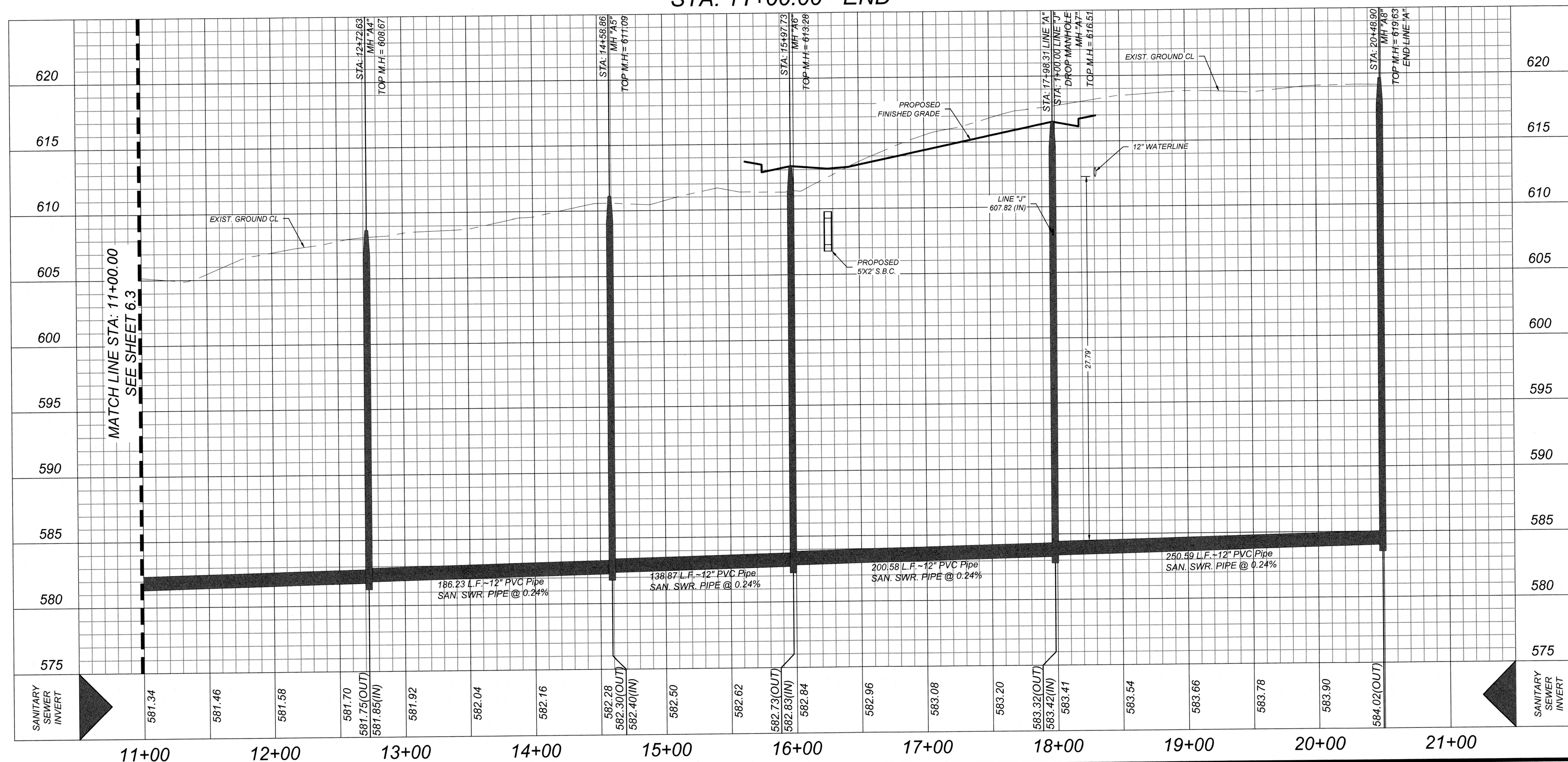
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DD852-02.

DEVELOPER'S NAME: MEH HOLDING COMPANY LTD
DEVELOPER'S ADDRESS: 1202 W BITTERS RD, BUILDING 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258
PHONE#: _____ FAX#: _____ TOTAL ACREAGE: 35.11 AC.
SAWS BLOCK MAP#: 216562 216560 214560 TOTAL EDU'S: 95
TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. ~ 8" SDP 26 PLAT NO.: 21-118006A
1,235 L.F. ~ 12" SDP 26
NUMBER OF LOTS: 95 SAWS JOB#: 21-17726



LINE "A"
STA: 11+00.00 - END

HORZ SCALE: 1"=50
VERT SCALE: 1"=5

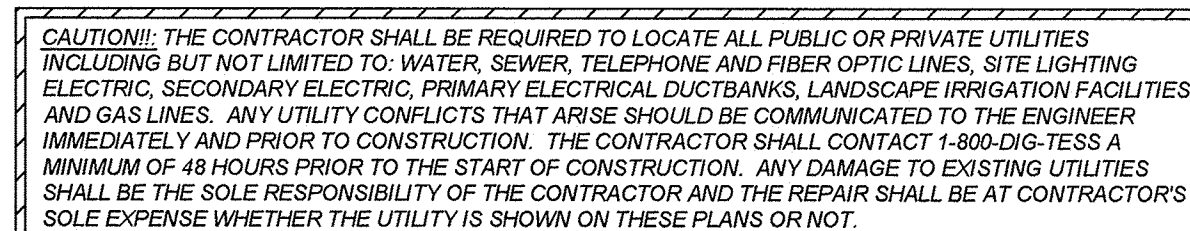


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CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ENGINEERING/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL TRENCH EXCAVATION SYSTEMS AND ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS SHALL MEET OR EXCEED ALL APPLICABLE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY 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 PROTECTION SYSTEM THAT COMPLY WITH ALL APPLICABLE TRENCH EXCAVATION SAFETY AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

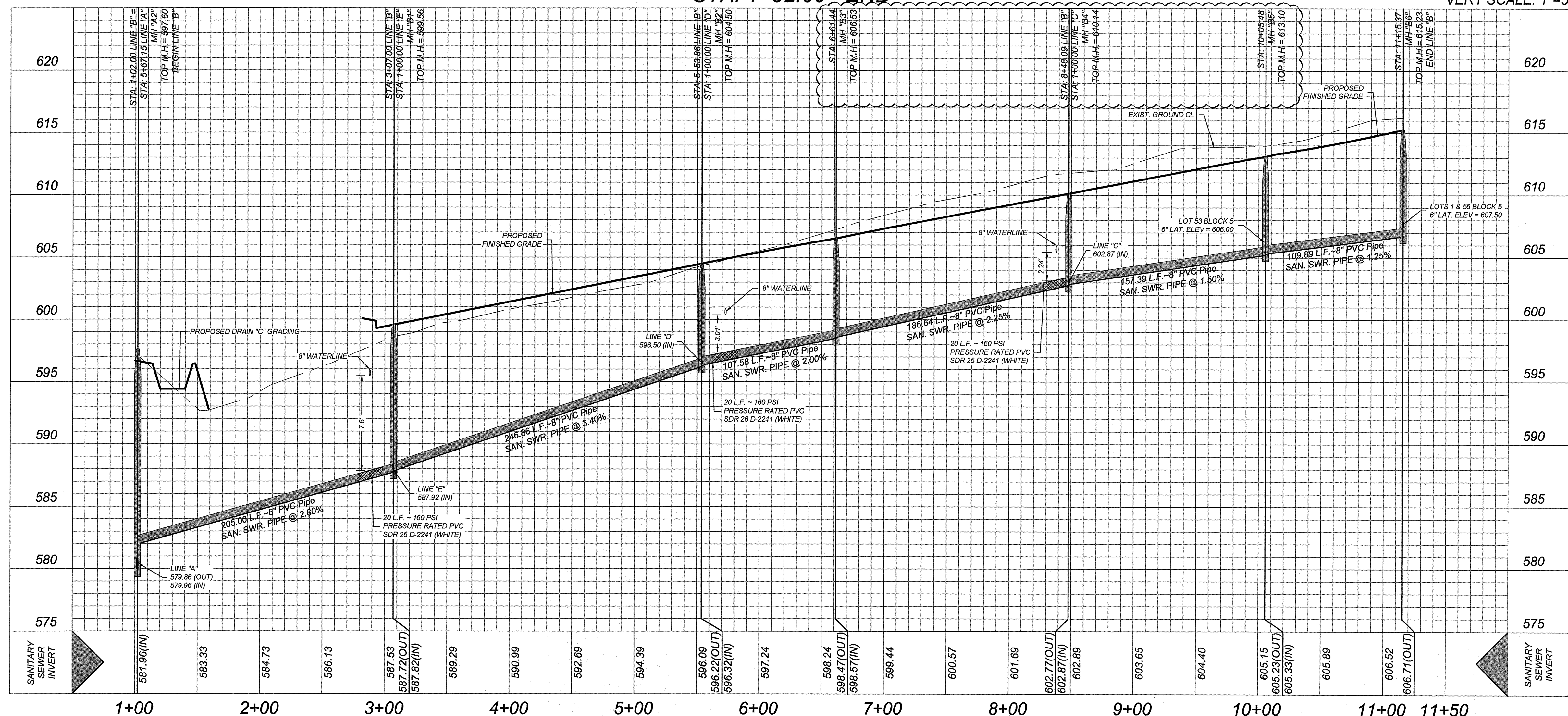
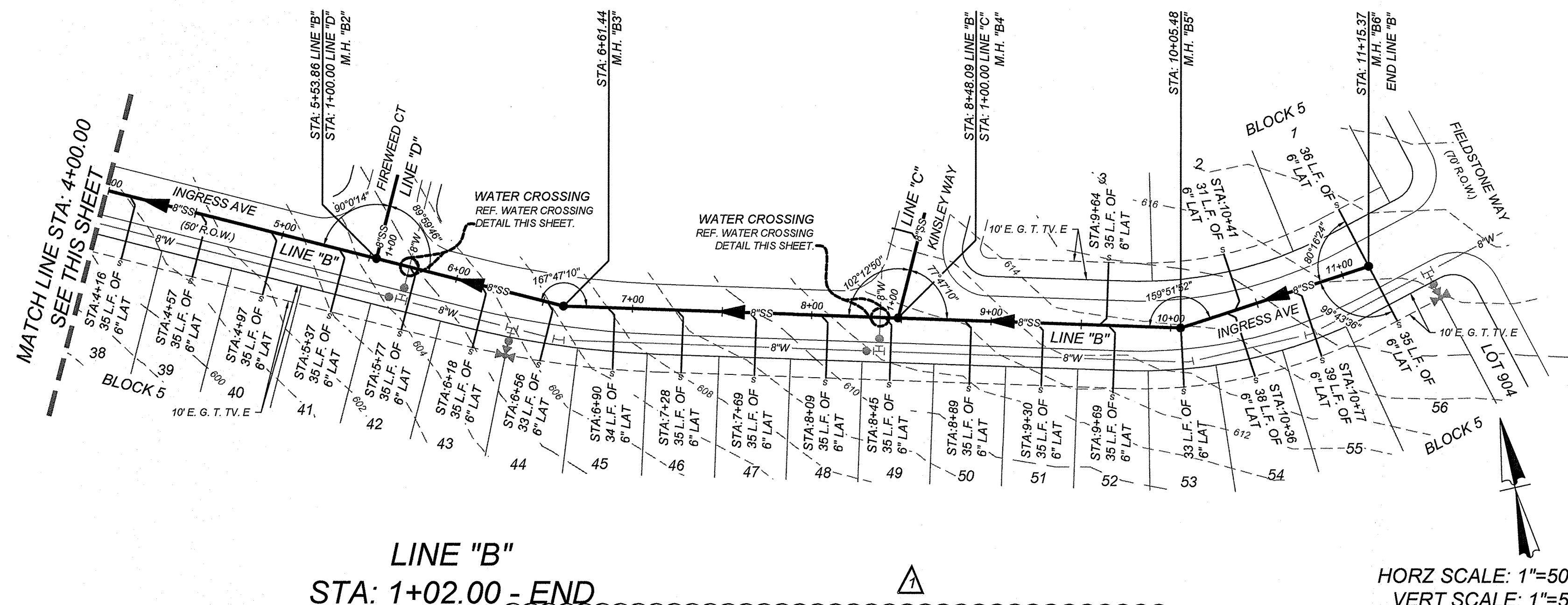
1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (S.A.W.S.) STANDARD SPECIFICATION.
2. S.A.W.S. WHERE WATER LINE CROSSES SHALL MEET THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS FOR THE PROPOSED WATER LINE. PRELIMINARY RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM).
3. REFERENCE SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS.
4. SEE THIS SHEET FOR BENCH MARK INFORMATION.
5. PIPE TYPE DESIGNATIONS ARE SDR 26.
6. SEE THIS SHEET FOR TYPICAL SANITARY SEWER/WATER CROSSING DETAIL.
7. ALL CULVERTS SHALL HAVE CONCRETE RING ENCASEMENT AND A WATER TIGHT RING AND COVER.

DD-804-01 SANITARY SEWER PIPE LAID IN TRENCH
DD-804-02 TRENCH COMPLETION DETAIL
DD-848-01 GO NO GO DEFLECTION TESTING MANDREL
DD-852-01 STANDARD PRECAST MANHOLE
DD-852-02 VENTED MANHOLE RING AND COVER DETAIL (WHEN SPECIFIED)
DD-852-03 MANHOLE RING ENCASEMENT DETAIL
DD-854-ERZ HOUSE LATERAL DETAIL (IN THE E.A.R.Z.)
DD-858-01 TYPICAL CONCRETE ENCASEMENT DETAILS
DD-858-02 TYPICAL CONCRETE DETAILS
DD-860-01 TYPICAL VERTICAL STACK DETAILS
DD-860-02 PRECAST MANHOLE RING 45° ANGLE
DD-862-08 DROP MANHOLE DETAIL
DD-862-07 MANHOLE RING AND COVER DETAIL



MANHOLE NOTE:
ALL MANHOLES MUST BE WATERTIGHT, WITH
WATERTIGHT RINGS AND COVERS. THESE
MANHOLES MUST BE VENTED PER SAWS DETAIL
DD852-02.

DEVELOPER'S NAME: MEH HOLDING COMPANY LTD
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD, BUILDING 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258
PHONE#: FAX#: TOTAL ACREAGE: 35.11 AC
SAWS BLOCK MAP#: 216562 216560 214560 TOTAL EDUS: 95
TOTAL LINEAR FOOTAGE OF EASE: 3.936 LF ~ 8" SDR 26" PLAT NO: 21-118006A-4
12551 ~ 12552 SAWS JOB#: 21-1726
NUMBER OF LOTS: 95



Date: Apr 19, 2022, 9:34am User ID: omeiners
File: P:\2054304\Design\Civil\SEWERISS\2054304.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

TRENCH EXCAVATION SAFETY PROTECTION

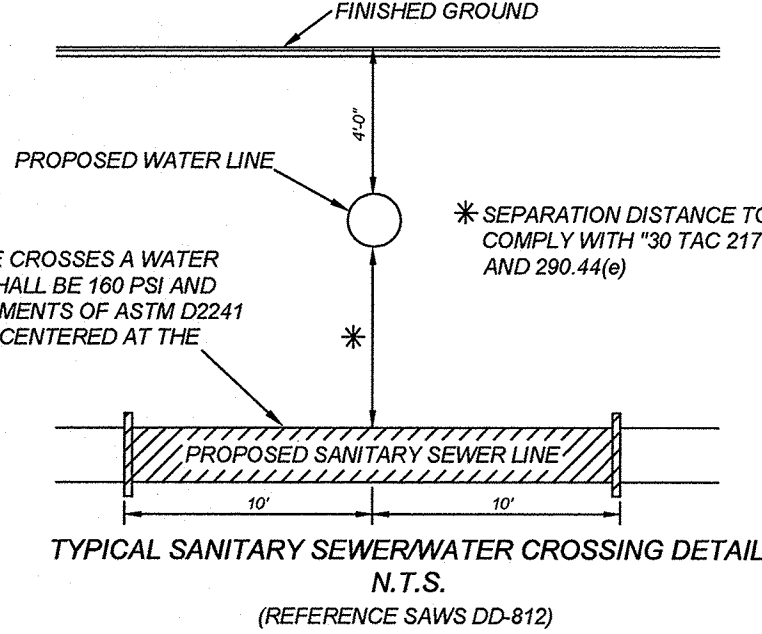
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY 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.

NOTE:

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (S.A.W.S.) STANDARD SPECIFICATION.
- SEWER PIPE WHERE WATER LINE CROSSES SHALL MEET THE REQUIREMENTS OF ASTM D2241. CONTRACTOR SHALL CENTER A 20 FOOT JOINT OF 160 P.S.I. PRESSURE RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM). REFERENCE SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS.
- SEE THIS SHEET FOR BENCHMARK INFORMATION.
- PIPE TYPE DESIGNATIONS ARE SDR 26.
- SEE THIS SHEET FOR TYPICAL SANITARY SEWER / WATER CROSSING DETAIL.
- ALL MANHOLES SHALL HAVE CONCRETE RING ENCASMENT AND A WATER TIGHT RING AND COVER.

REFERENCE S.A.W.S. DETAILS

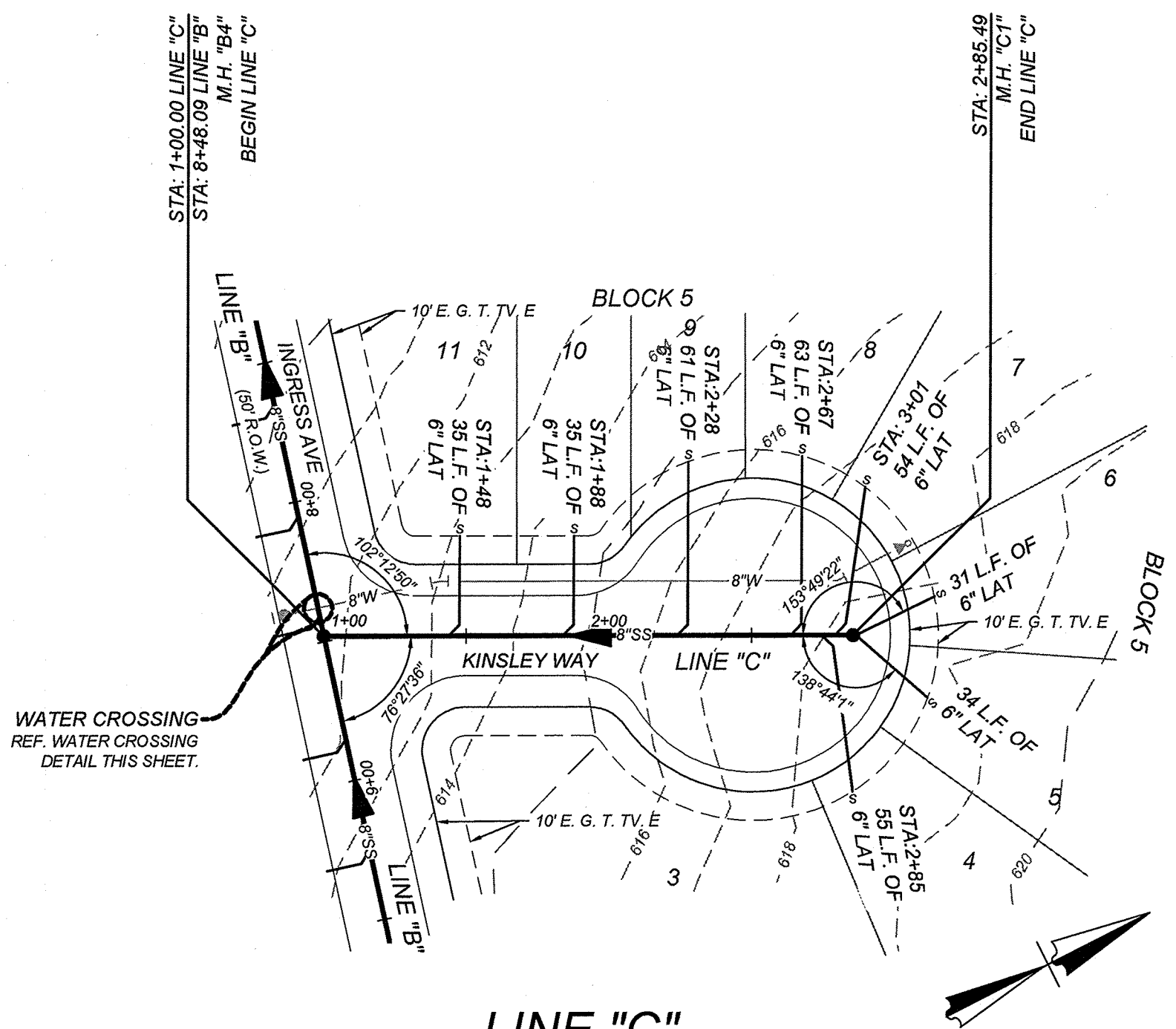
DD-804-01 SANITARY SEWER PIPE LAID IN TRENCH
DD-804-02 TRENCH COMPACTION DETAIL
DD-848-01 GO, NO GO DEFLECTION TESTING MANDREL
DD-852-01 STANDARD PRECAST MANHOLE
DD-852-02 VENTED MANHOLE RING AND COVER DETAIL (WHEN SPECIFIED)
DD-852-03 MANHOLE RING ENCASMENT DETAIL
DD-854-02 HOUSE LATERAL DETAIL (IN THE E.A.R.Z.)
DD-858-01 TYPICAL CONCRETE ENCASMENT DETAILS
DD-858-02 TYPICAL CONCRETE DETAILS
DD-860-01 TYPICAL VERTICAL STACK DETAILS
DD-852-06 PRECAST MANHOLE BASE 45° ANGLE
DD-852-08 DROP MANHOLE DETAIL
DD-852-07 MANHOLE RING AND COVER DETAIL



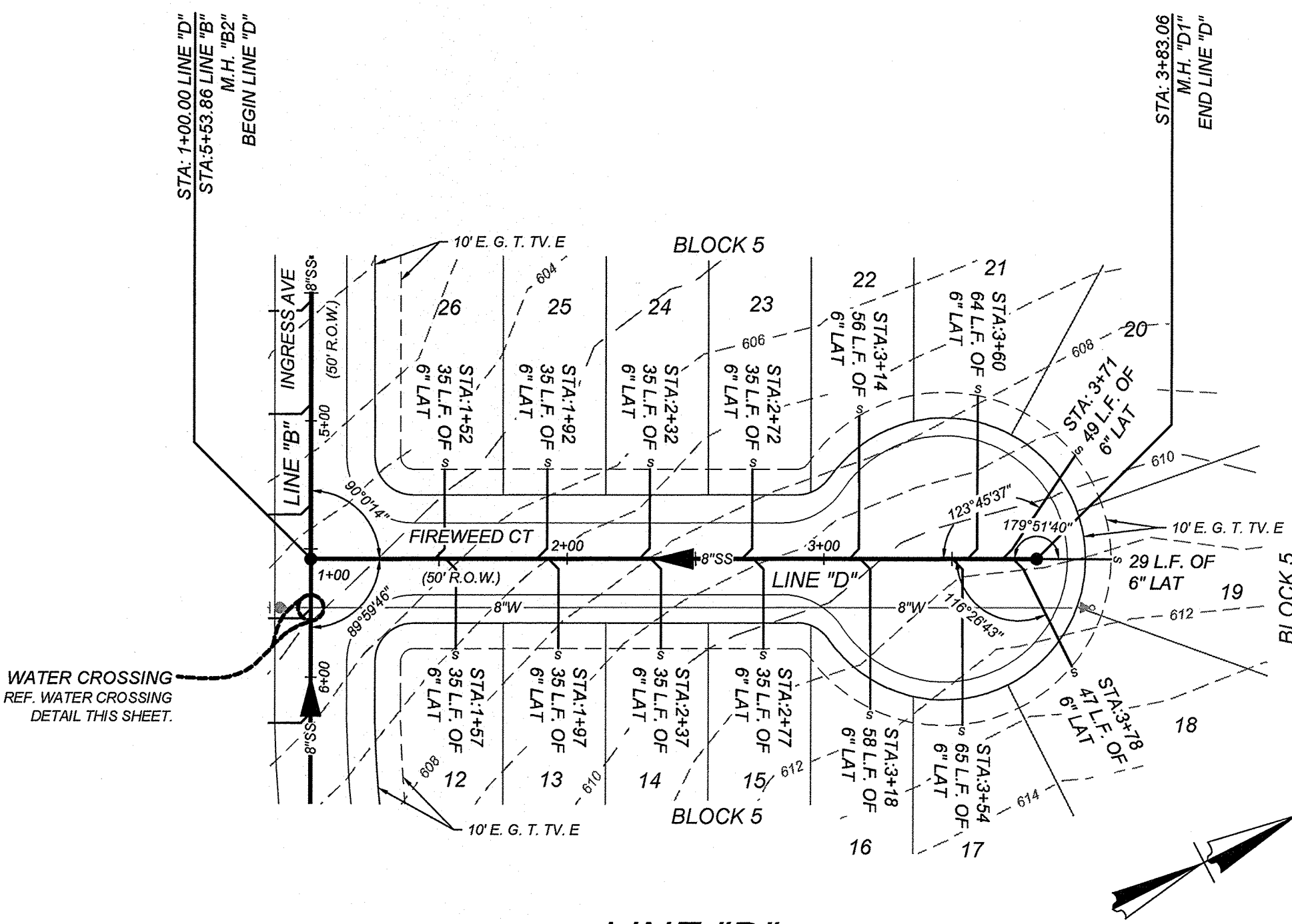
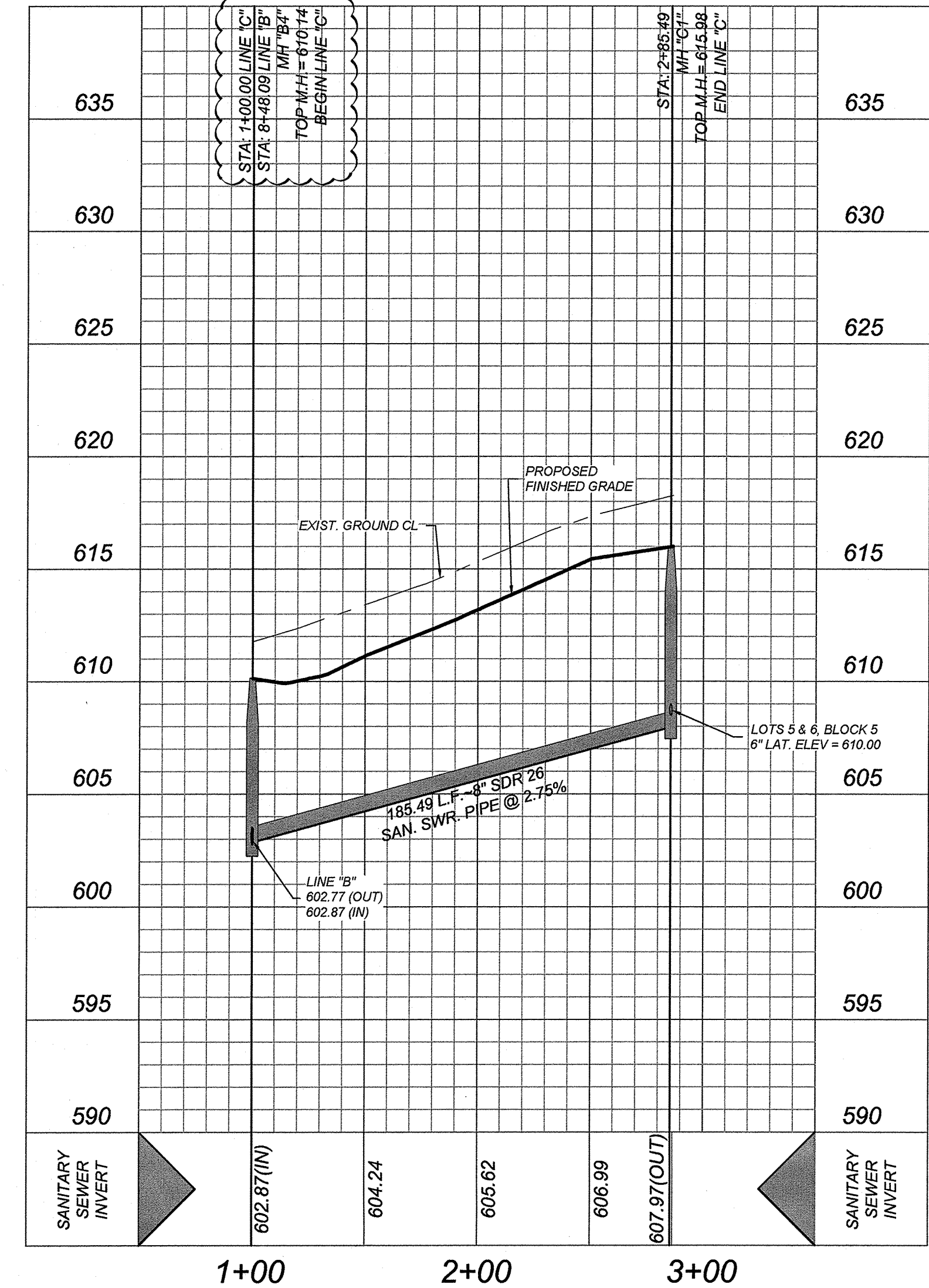
CAUTION!! THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRICAL, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

MANHOLE NOTE
ALL MANHOLES MUST BE WATER TIGHT, WITH WATER TIGHT RINGS AND COVERS. THESE MANHOLES MUST BE VENTED PER SAWS DETAIL DD-852-02.

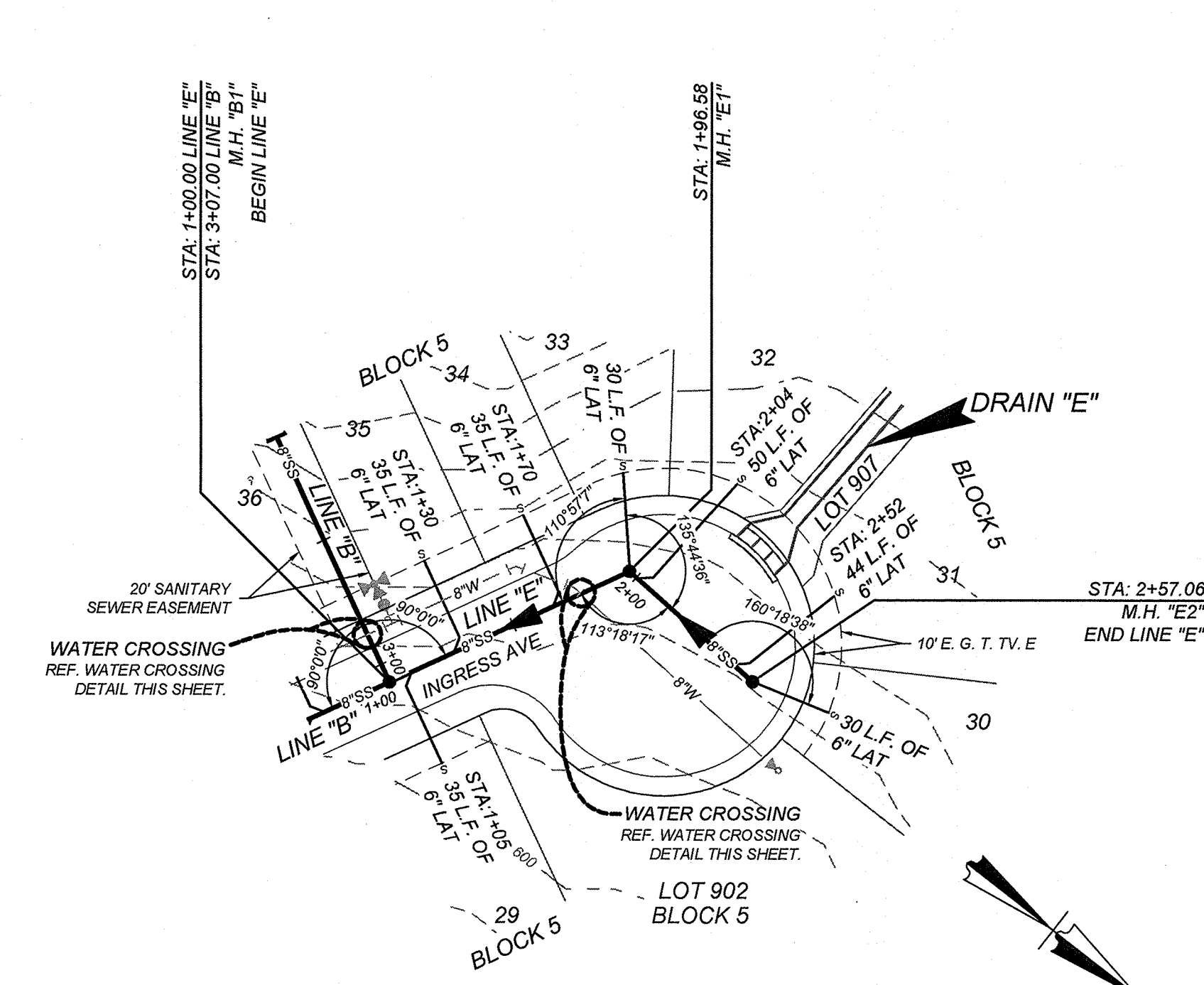
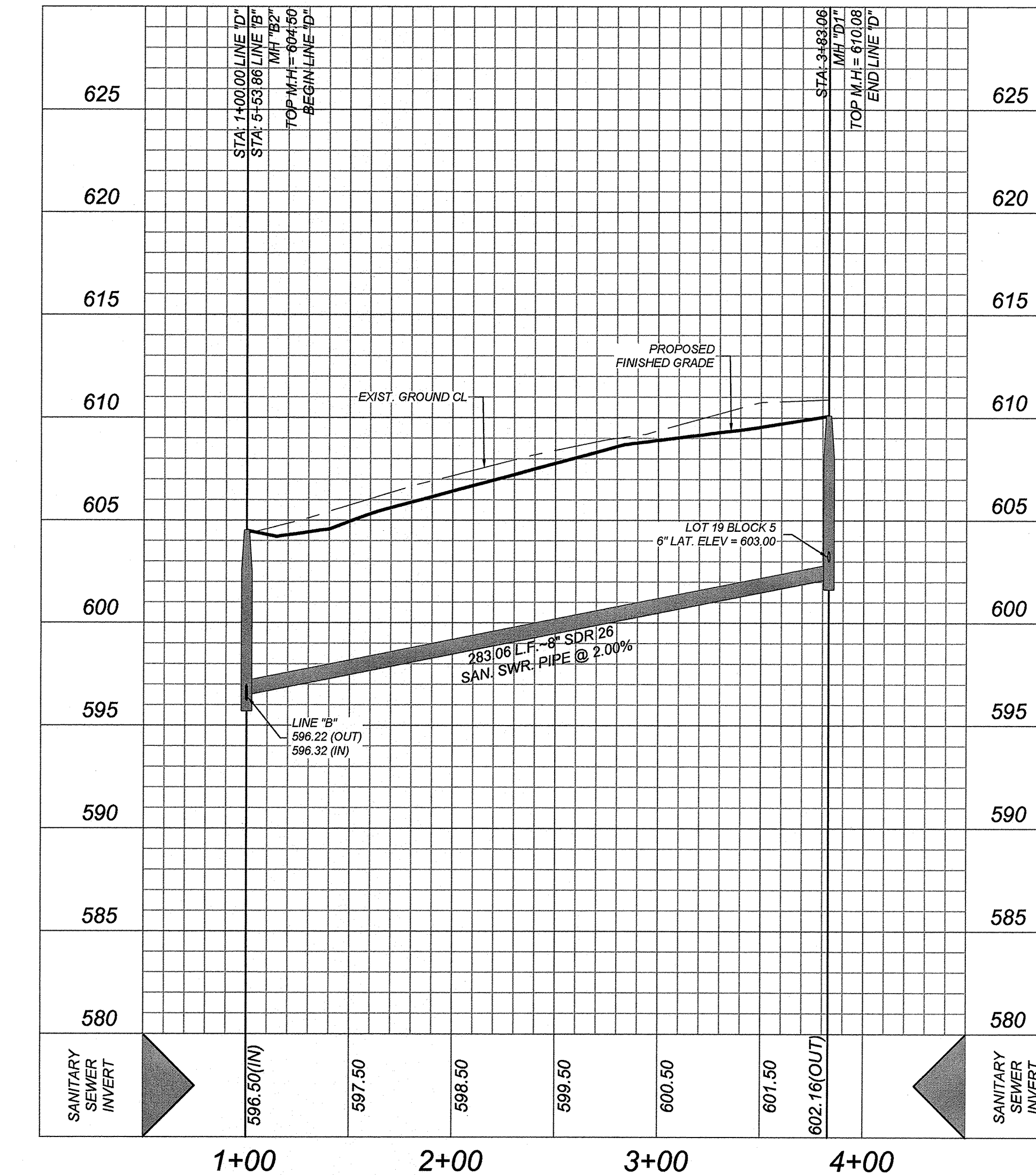
DEVELOPER'S NAME: MEH HOLDING COMPANY LTD
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD, BUILDING 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258
PHONE: FAX: TOTAL ACRES: 35.11 AC.
SAWS BLOCK MAP#: 216582, 216560, 214560 TOTAL EDUS: 95
TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. - 8" SDR 26
1,235 L.F. - 12" SDR 26 PLAT NO.: 21-11800645
NUMBER OF LOTS: 95 SAWS JOB#: 21-1726



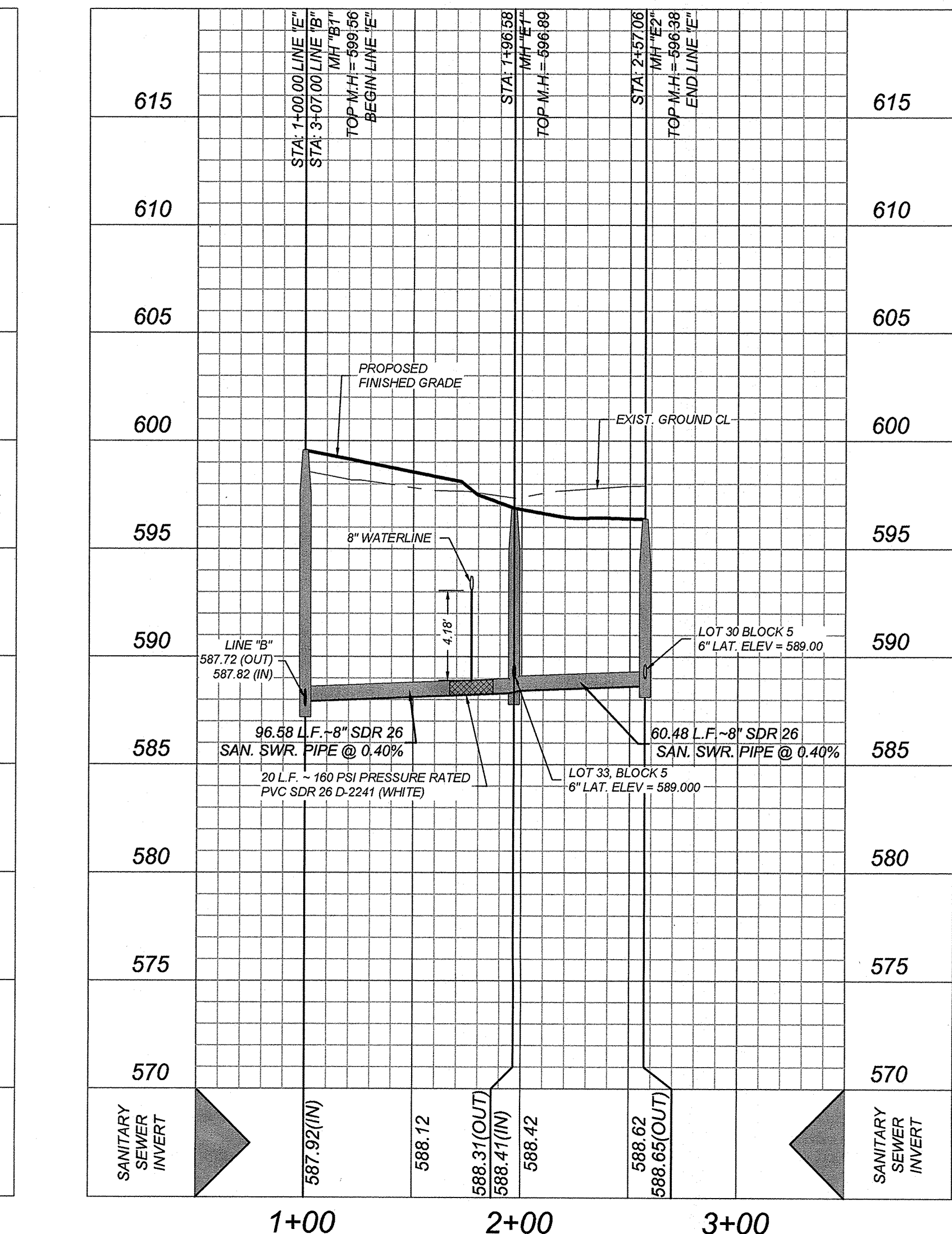
LINE "C"
STA: 1+00.00 - END
HORZ SCALE: 1"=50'
VERT SCALE: 1"=5'



LINE "D"
STA: 1+00.00 - END
HORZ SCALE: 1"=50'
VERT SCALE: 1"=5'



LINE "E"
STA: 1+00.00 - END
HORZ SCALE: 1"=50'
VERT SCALE: 1"=5'



GATES SUBDIVISION UNIT 1
BEXAR COUNTY, TX
LINE "C", "D" & "E" PLAN & PROFILE

PLAT NO.
21-11800645
JOB NO. 205-43-04
DATE: OCTOBER 2021
DRAWN/OM CHECKED/CL
SHEET NUMBER:

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS. PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY 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.

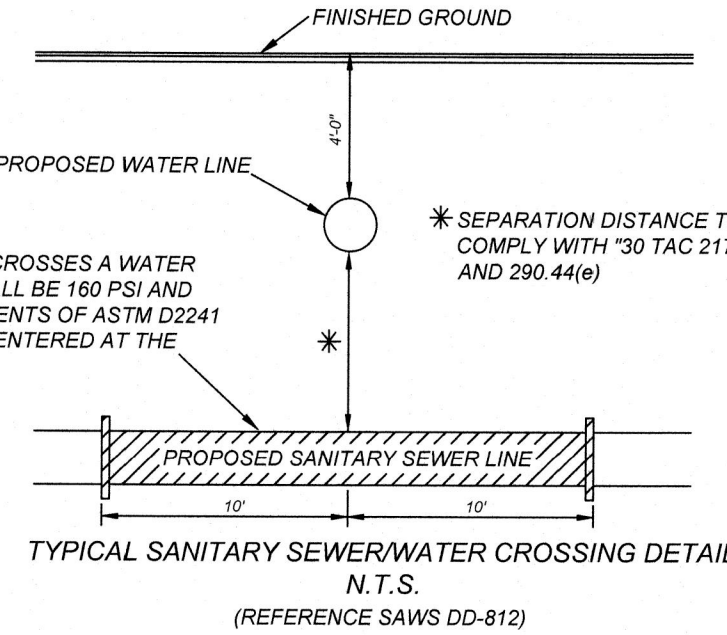
NOTE

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (S.A.W.S.) STANDARD SPECIFICATION.
2. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE MEET THE REQUIREMENTS OF ASTM D2241. CONTRACTOR SHALL CENTER A 20 FOOT JOINT OF 160 P.S.I. PRESSURE RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM). REFERENCE SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS.
3. SEE THIS SHEET FOR BENCHMARK INFORMATION.
4. PIPE TYPE DESIGNATIONS ARE SDR 26.
5. SEE THIS SHEET FOR TYPICAL SANITARY SEWER / WATER CROSSING DETAIL.
6. ALL MANHOLES SHALL HAVE CONCRETE RING ENCASUREMENT AND A WATER TIGHT RING AND COVER.

REFERENCE S.A.W.S. DETAILS

DD-804-01 SANITARY SEWER PIPE Laid IN TRENCH
DD-804-02 TRENCH COMPACTION DETAIL
DD-848-01 GO, NO GO DEFLECTION TESTING MANDREL
DD-852-01 STANDARD PRECAST MANHOLE
DD-852-02 VENTED MANHOLE RING AND COVER DETAIL (WHEN SPECIFIED)
DD-852-03 MANHOLE RING ENCASUREMENT DETAIL
DD-854-ERZD HOUSE LATERAL DETAIL (IN THE E.A.R.Z.)
DD-858-01 TYPICAL CONCRETE ENCASUREMENT DETAILS
DD-858-02 TYPICAL CONCRETE ENCASUREMENT DETAILS
DD-860-01 TYPICAL VERTICAL STACK DETAILS
DD-852-06 PRECAST MANHOLE BASE 45° ANGLE
DD-852-08 DROP MANHOLE DETAIL
DD-852-07 MANHOLE RING AND COVER DETAIL

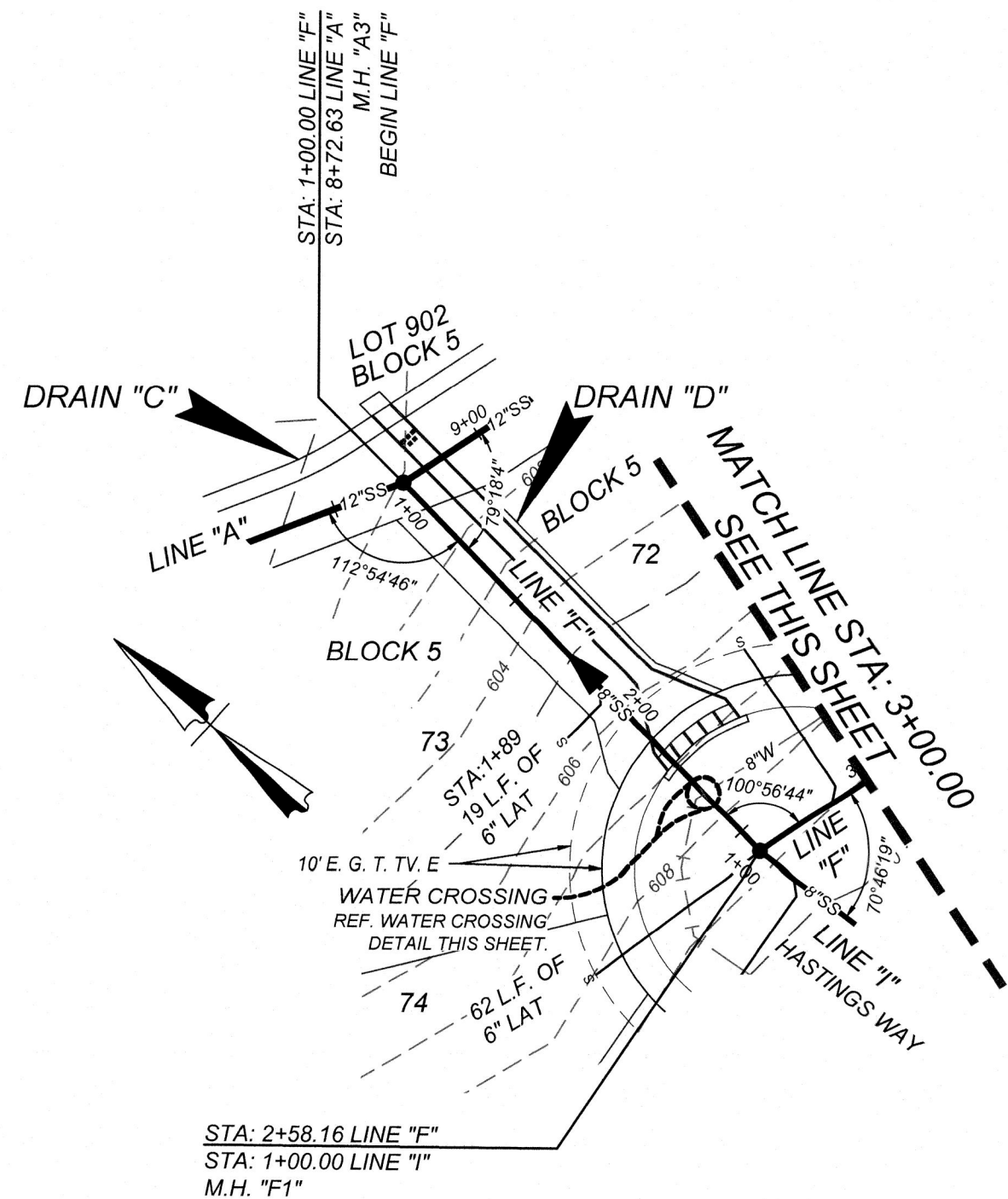
WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 180 PSI AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20" JOINT CENTERED AT THE WATER CROSSING.



CAUTION! THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TEST A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

MANHOLE NOTE:
ALL MANHOLES MUST BE WATER TIGHT, WITH WATER TIGHT RINGS AND COVERS. THESE MANHOLES MUST BE VENTED PER SAWS DETAIL DD852-02.

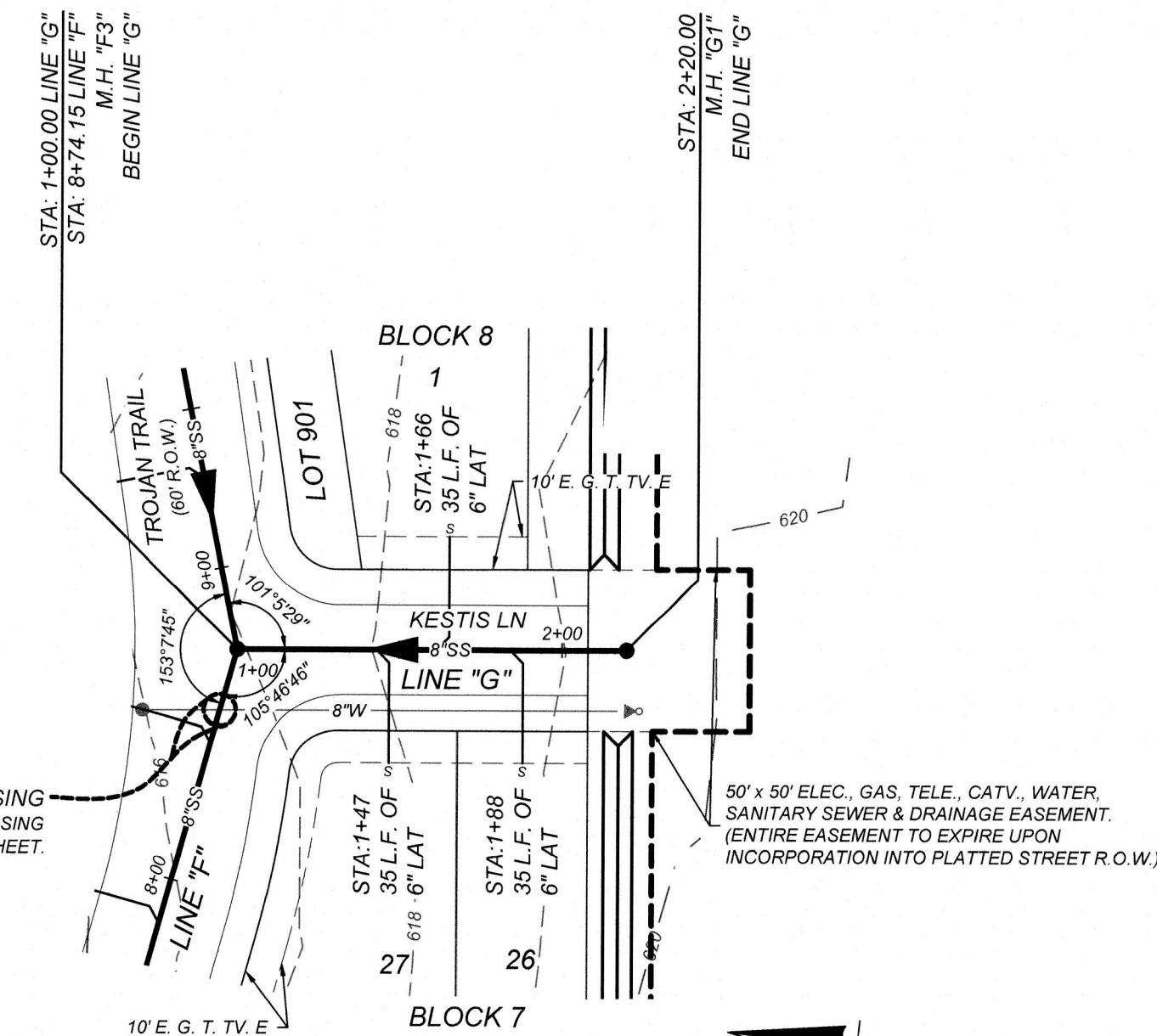
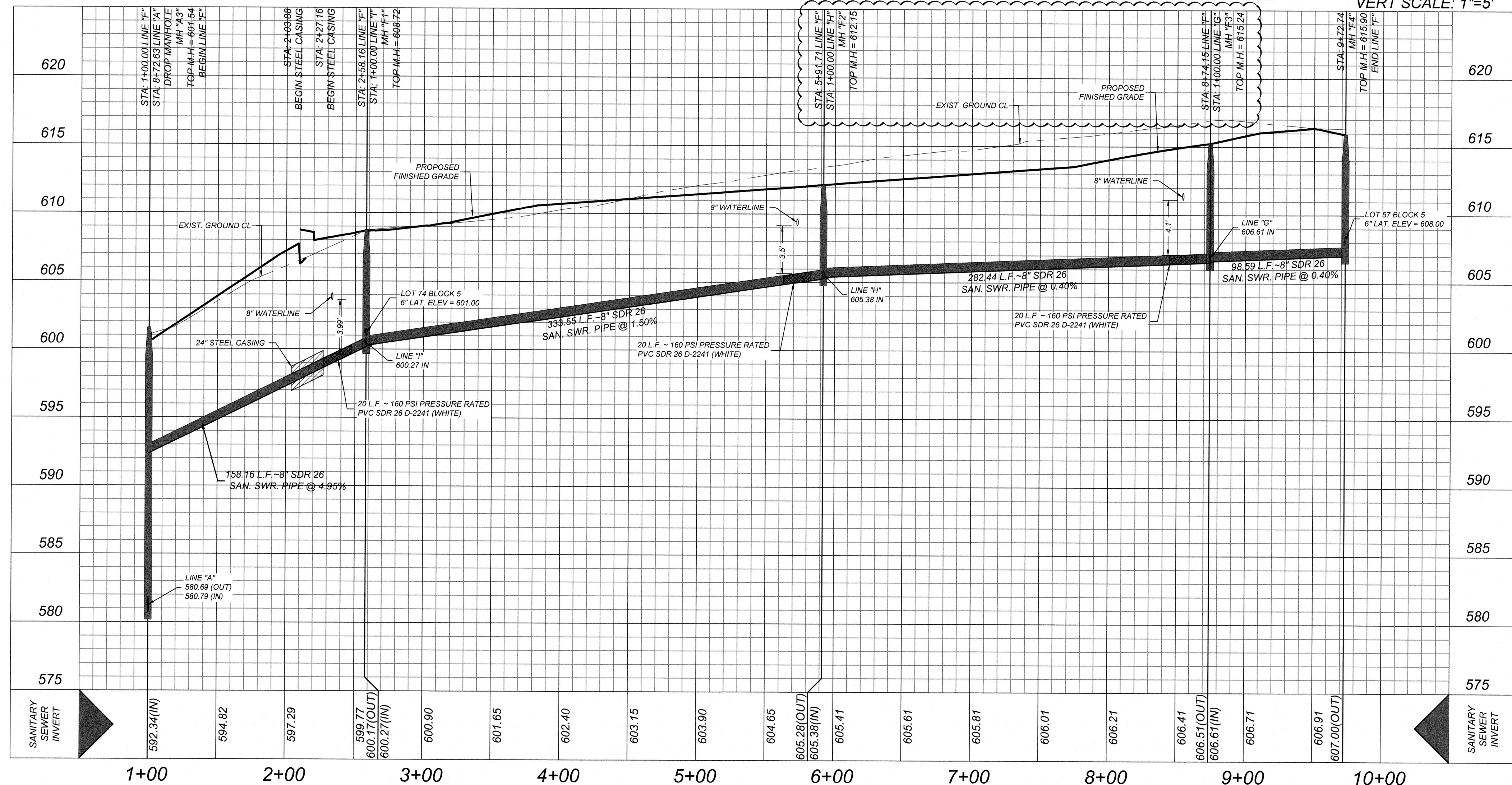
DEVELOPER'S NAME: MEH HOLDING COMPANY LTD
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD. BUILDING 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258
PHONE: FAX: TOTAL ACREAGE: 35.11 AC.
SAWS BLOCK MAP: 216562, 216560, 214560 TOTAL EDU'S: 95
TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. - 8" SDR 26
1,335 L.F. - 12" SDR 26
NUMBER OF LOTS: 95 SAWS JOB#: 21-1728
PLAT NO.: 21-11800645



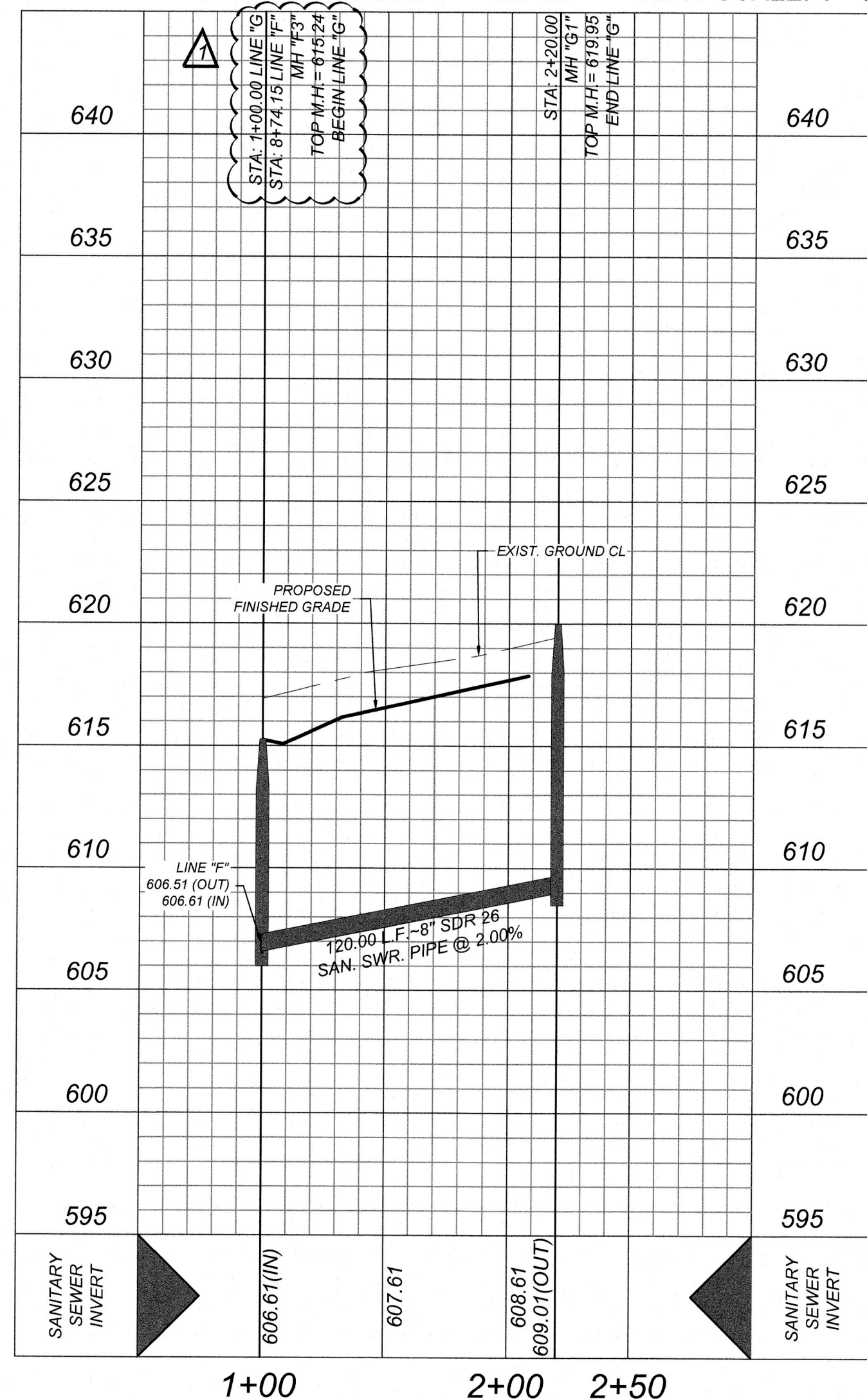
MATCH LINE STA: 3+00.00
SEE THIS SHEET

LINE "F"
STA: 1+00.00 - END

HORZ SCALE: 1"=50'
VERT SCALE: 1"=5'



LINE "G"
STA: 1+00.00 - END
HORZ SCALE: 1"=50'
VERT SCALE: 1"=5'



GATES SUBDIVISION UNIT 1
BEXAR COUNTY, TX
LINE "F" & "G" PLAN & PROFILE

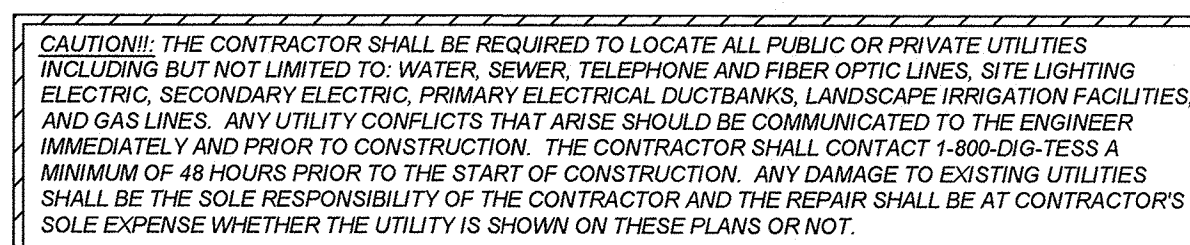
PLAT NO.
21-11800645
JOB NO: 205-43-04
DATE: OCTOBER 2021
DRAWN: OM CHECKED: CL
SHEET NUMBER:

6.7

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/TECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRENCH EXCAVATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT. CONTRACTOR SHALL PROVIDE FOR THE TRENCH EXCAVATION SAFETY PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/TECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRENCH EXCAVATION SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

1. ALL MATERIALS & CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE SAN ANTONIO WATER SYSTEM (S.A.W.S.) STANDARD SPECIFICATION.
2. SEWER PIPE WHERE WATER LINE CROSSES SHALL MEET THE REQUIREMENTS OF AUSTIN WATER SUPPLY DISTRICT CHAPTER 202.00T, JOINT OF 180 P.S.I. PRESSURE RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM).
3. REQUIRE SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS.
4. SEE THIS SHEET FOR BENCH MARK INFORMATION.
5. PIPE TYPE DESIGNATIONS ARE SDR 26.
6. SEE THIS SHEET FOR TYPICAL SANITARY SEWER/WATER CROSSING DETAIL.
7. ALL TRENCHES SHALL HAVE CONCRETE RING ENCASEMENT AND A WATER TIGHT RING AND COVER.

DD-804-01 SANITARY SEWER PIPE LAID IN TRENCH
 DD-804-02 TRENCH COMPACTION DETAIL
 DD-848-01 GO, NO GO DEFLECTO TESTING MANDREL
 DD-852-01 STANDARD PRECAST MANHOLE
 DD-852-02 VENTED MANHOLE RING AND COVER DETAIL (WHEN SPECIFIED)
 DD-852-03 MANHOLE RING ENCASEMENT DETAIL
 DD-854-ERZD HOUSE LATERAL DETAIL (IN THE E.A.P.Z.)
 DD-858-01 TYPICAL CONCRETE ENCASEMENT DETAILS
 DD-858-02 TYPICAL CONCRETE DETAILS
 DD-858-03 TYPICAL VERMILITE DETAILS
 DD-852-06 PRECAST MANHOLE BASE 45° ANGLE
 DD-852-08 DROP MANHOLE DETAIL
 DD-852-07 MANHOLE RING AND COVER DETAIL



DEVELOPER'S NAME: MEH HOLDING COMPANY LTD

DEVELOPER'S ADDRESS: 1202 W. BITTERS RD, BUILDING 1, SUITE 1200

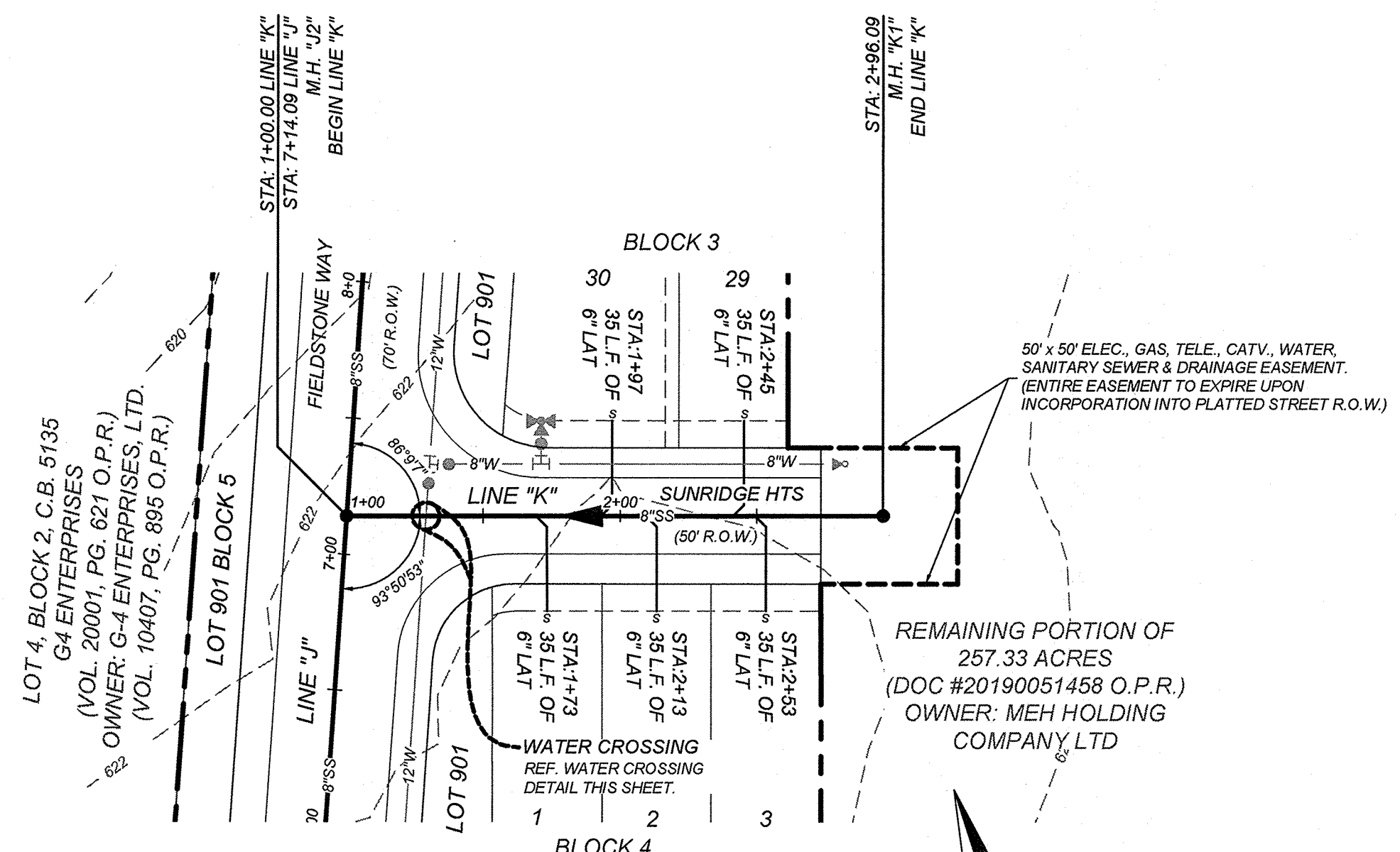
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258

PHONE#: FAX#: TOTAL ACREAGE: 35.11 AC.

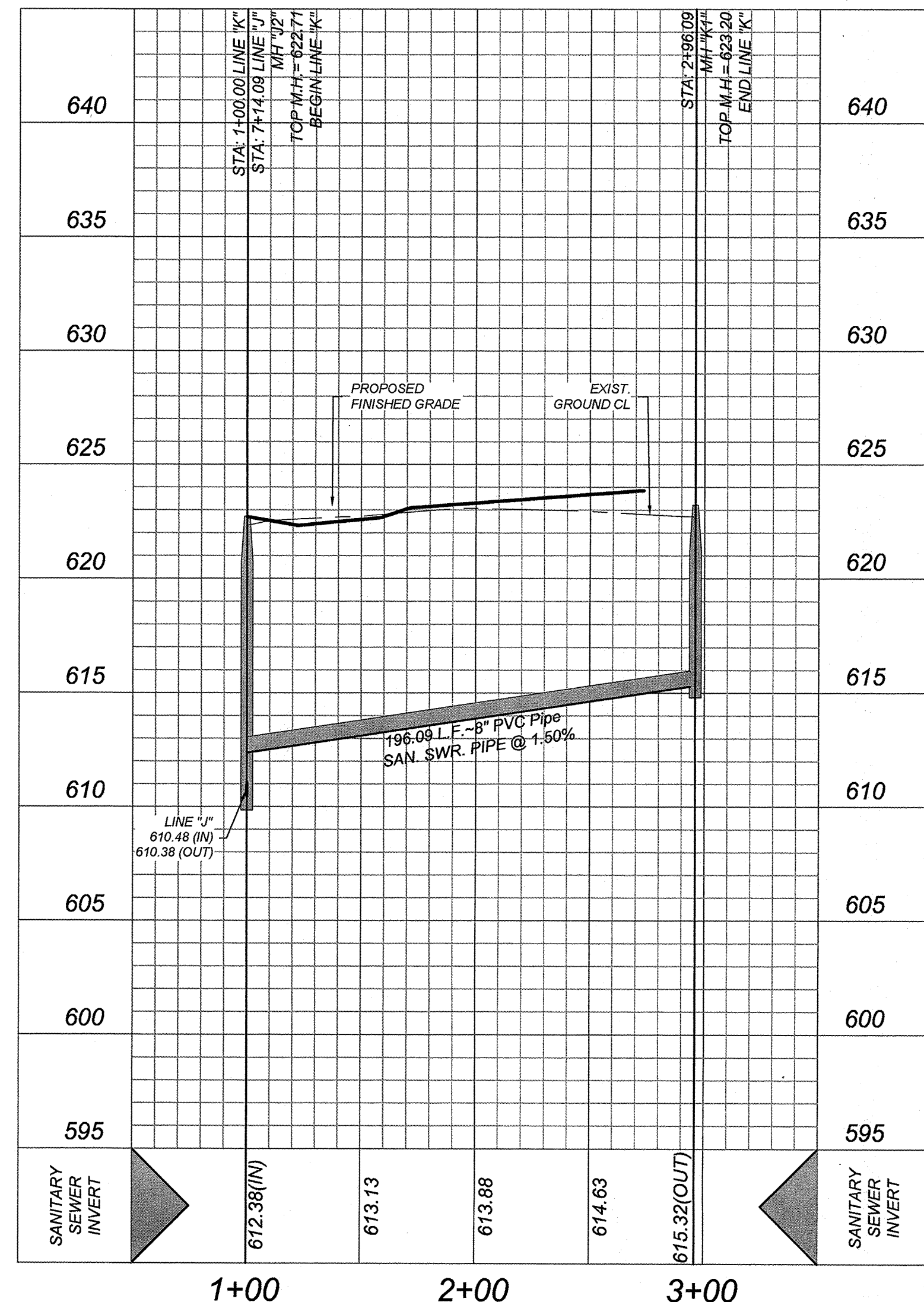
SAWS BLOCK MAP#: 216552, 216550, 214580 TOTAL EDUS: 95

TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. - 8" SDR 26 PLAT NO: 21-11800645
1,235 L.F. - 12" SDR 26

NUMBER OF LOTS: 95 SAWS JOB#: 21-1726



LINE "K"
STA: 1+00.00 - END



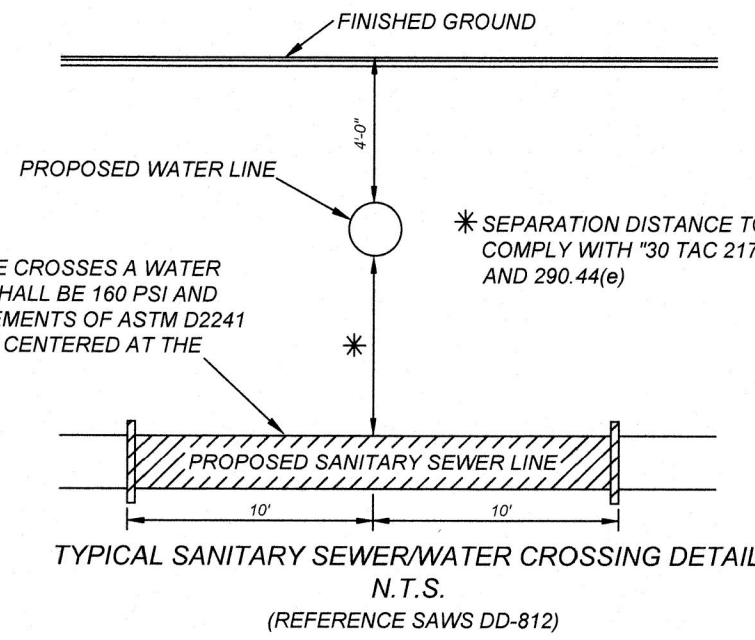
TRENCH EXCAVATION SAFETY PROTECTION
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NOTE:

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4. PIPE TYPE DESIGNATIONS ARE SDR 26
5. SEE THIS SHEET FOR TYPICAL SANITARY SEWER/WATER CROSSING DETAIL.
6. ALL MANHOLES SHALL HAVE CONCRETE RING ENCASUREMENT AND A WATER TIGHT RING AND COVER.

REFERENCE S.A.W.S. DETAILS

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DD-804-02 TRENCH COMPACTION DETAIL
DD-846-01 GO, NO GO DEFLECTION TESTING MANDREL
DD-852-01 STANDARD PRECAST MANHOLE
DD-852-02 VENTED MANHOLE RING AND COVER DETAIL (WHEN SPECIFIED)
DD-852-03 MANHOLE RING ENCASUREMENT DETAIL
DD-854-ER2D HOUSE LATERAL DETAIL (IN THE E.A.R.Z.)
DD-858-01 TYPICAL CONCRETE ENCASUREMENT DETAILS
DD-858-02 TYPICAL CONCRETE DETAILS
DD-860-01 TYPICAL VERTICAL STACK DETAILS
DD-852-06 PRECAST MANHOLE BASE 45° ANGLE
DD-852-08 DROP MANHOLE DETAIL
DD-852-07 MANHOLE RING AND COVER DETAIL



CAUTION: THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

MANHOLE NOTE
ALL MANHOLES MUST BE WATERTIGHT, WITH WATERTIGHT RINGS AND COVERS. THESE MANHOLES MUST BE VENTED PER SAWS DETAIL DD852-02.

DEVELOPER'S NAME: MEH HOLDING COMPANY LTD
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD. BUILDING 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78258
PHONE: FAX#: TOTAL ACREAGE: 35.11 AC.
SAWS BLOCK MAP: 216562, 216560, 214560 TOTAL EDU'S: 95
TOTAL LINEAR FOOTAGE OF PIPE: 3,536 L.F. - 8" SDR 26
1,235 L.F. - 12" SDR 26
NUMBER OF LOTS: 95 SAWS JOB#: 21-1726
PLAT NO.: 21-11800645

