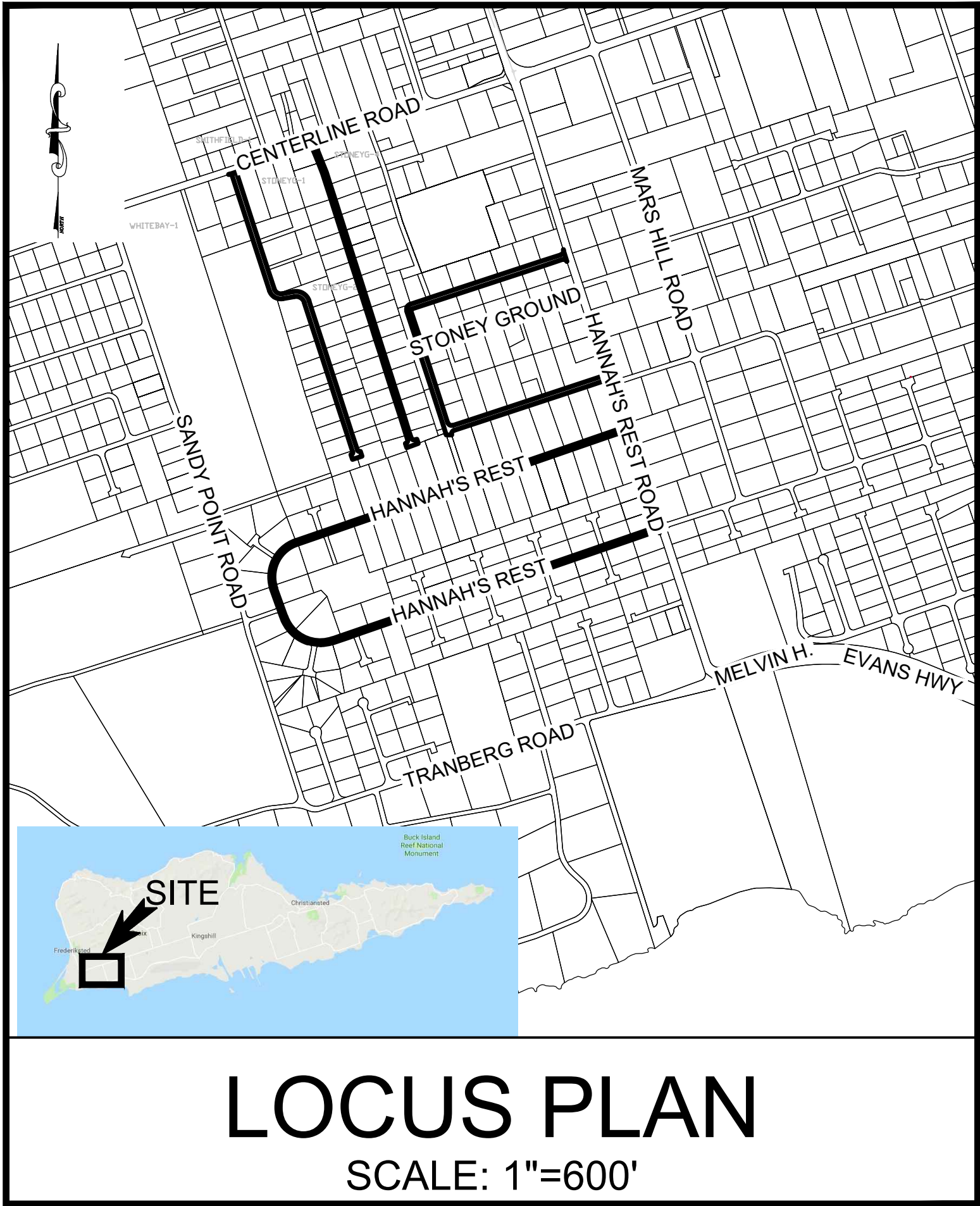


HANNAH'S REST WATERLINE REHABILITATION DESIGN

VIRGIN ISLANDS WATER AND POWER AUTHORITY

ST. CROIX, U.S. VIRGIN ISLANDS
NOVEMBER 2020

SHEET INDEX



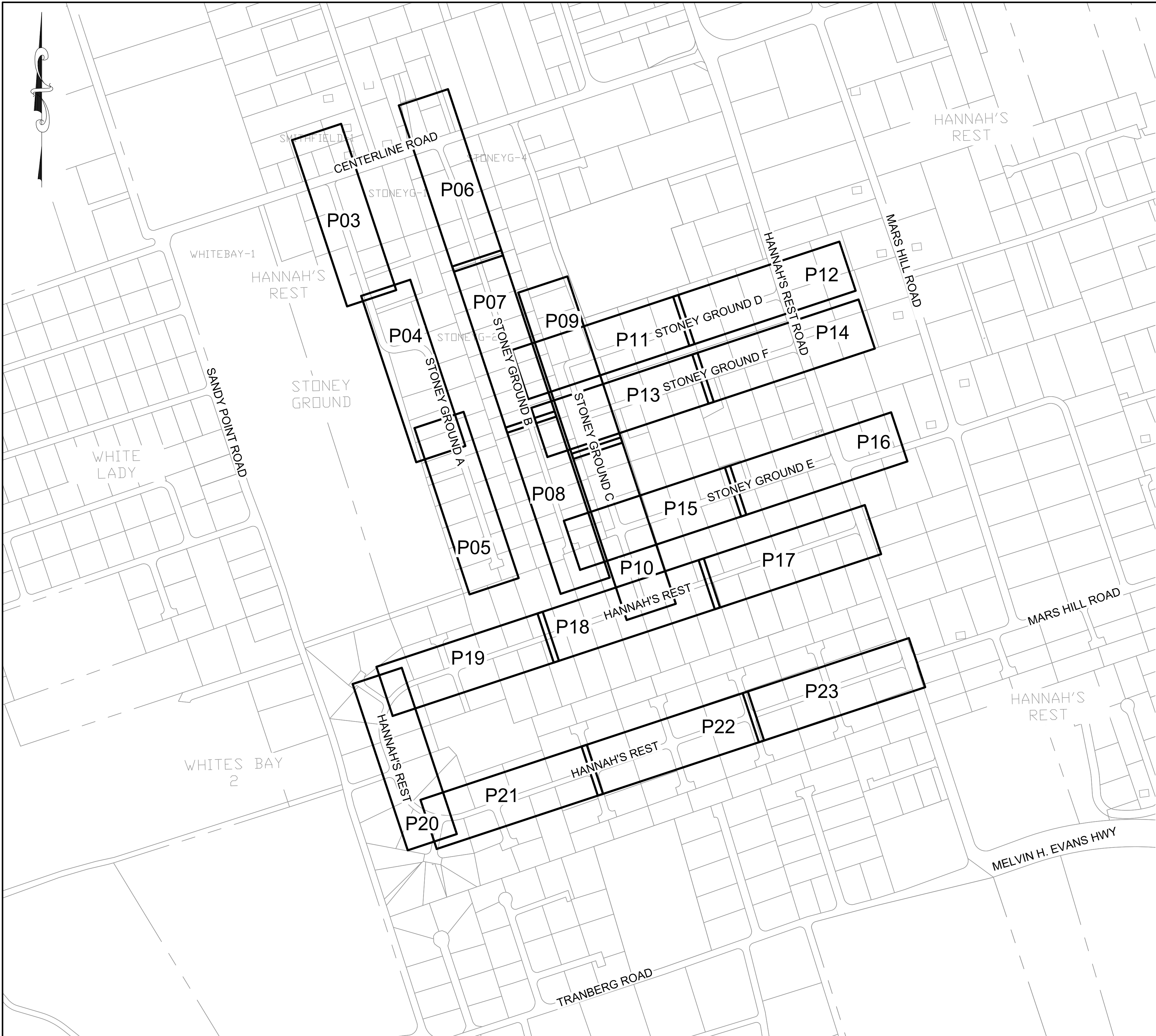
P00	OVERALL SITE PLAN/LEGEND SHEET/GENERAL NOTES	D01-09	DETAILS
P01	HANNAH'S REST SOIL MAP	T01	TRAFFIC CONTROL PLAN
P02	PROPOSED WATER SERVICE LINE LAYOUT	T02	TRAFFIC CONTROL DETAILS
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VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

P.O. BOX 5018
KINGSHILL, ST. CROIX, U.S. VIRGIN ISLANDS

20 FOUNDRY STREET
CONCORD, NEW HAMPSHIRE 03301



GENERAL NOTES:

1. A TOPOGRAPHICAL SURVEY WAS COMPLETED BY BCSC-DOSPIVA, LLC DURING THE MONTHS OF AUGUST THROUGH OCTOBER 2020. THE BASE MAP OF THE SURVEY TITLED "STX WATERLINE MASTER 9-21 ALL JOBS (1).DWG" AT AN ORIGINAL SCALE OF 1" = 20' WAS TRANSMITTED ON OCTOBER 7, 2020.
2. THE PIPELINE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS DESIGN DRAWING PACKAGE, VIWAPA STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE LOCAL REGULATIONS.
3. THE PIPE SHALL BE INSTALLED WITH A MINIMUM OF 36-INCHES OF COVER AND SHALL MAINTAIN A MINIMUM OF 18-INCHES OF VERTICAL AND HORIZONTAL CLEARANCE FROM ADJACENT UTILITIES UNLESS OTHERWISE SPECIFIED.
4. EXISTING CONDITIONS SHOWN HEREON ARE BASED ON THE TOPOGRAPHICAL AND GROUND PENETRATING RADAR (GPR) SURVEYS COMPLETED BY BCSC-DOSPIVA, LLC AND FIELD INVESTIGATIONS. ALL MEASUREMENTS AND THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE ESTIMATED AND SHOULD BE CONSIDERED APPROXIMATE.
5. THE LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY, AND ARE NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING EXISTING UTILITY SYSTEM SERVICE. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY OF LOCATION OR ELEVATION THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SERVICE, SIZE, LOCATION, AND INVERT ELEVATION OF UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
6. THE CONTRACTOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, SIGNAGE, CURBS, ETC DURING CONSTRUCTION ACTIVITIES. CARE SHALL BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS AND THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR OR RESTORE ANY DAMAGE OR DISTURBANCE.
7. PROPOSED WORK SHALL BE PERFORMED AND COMPLETED IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
8. PROPOSED WORK SHALL BE PERFORMED AND COMPLETED UTILIZING AND IN COMPLIANCE WITH APPROVED TRAFFIC MANAGEMENT PLANS.
9. THE CONTRACTOR SHALL SUPPLY TRAFFIC CONTROL EQUIPMENT AND TEMPORARY ROAD SIGNAGE AS NECESSARY.
10. ALL TRENCH EXCAVATION PROTECTION SYSTEMS SHALL BE IN COMPLIANCE WITH OSHA SPECIFICATIONS.
11. OPEN EXCAVATIONS MUST BE PROTECTED IN ACCORDANCE WITH OSHA SPECIFICATIONS AND COVERED WITH APPROPRIATELY SIZED AND RATED TRENCH PLATES IF THE EXCAVATION IS NOT BACKFILLED AT THE END OF A WORK DAY.
12. THE INSTALLED PIPE SHALL BE SURVEYED FOR LOCATION AND DEPTH EVERY 20 FEET ALONG THE ENTIRE ALIGNMENT. THE CONTRACTOR SHALL USE THE SURVEY INFORMATION TO GENERATE AN AS-BUILT DRAWING SET.
13. THE ROADWAY MUST BE CLEAN OF DEBRIS AND CONSTRUCTION MATERIALS (WITH THE EXCEPTION OF TRENCH PLATES AND NECESSARY SAFETY MARKERS/CONES/SIGNAGE) AT THE END OF THE WORK DAY THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT.

TYPICAL CONSTRUCTION SEQUENCE:

1. CONFIRM LOCATION OF ADJACENT UTILITIES PRIOR TO COMMENCEMENT OF EXCAVATION.
2. IMPLEMENT TRAFFIC CONTROLS AS NECESSARY.
3. MARK OUT LIMITS OF EXCAVATION.
4. SOFT DIG TEST HOLES AT LOCATIONS WHERE UTILITIES MAY BE IN QUESTION TO CONFIRM THEIR LOCATION PRIOR TO USING MECHANICAL EXCAVATION MEANS.
5. SAW CUT/REMOVE ASPHALT/CONCRETE COVER AS NECESSARY.
6. TRENCH EXCAVATION.
7. INSTALL 6" SAND BEDDING.
8. INSTALL APPROPRIATE SIZE PIPE PER THE PLANS.
9. SURVEY LOCATION AND DEPTH OF PIPE.
10. INSTALL 6" OF BACKFILL SAND AROUND THE ENTIRE PIPE.
11. INSTALL LOCATING TAPE IN THE CENTER OF THE TRENCH.
12. DISINFECT AND LEAK TEST PIPE.
13. BACKFILL AND COMPACT REMAINING TRENCH IN 6" LIFTS USING MATERIAL FROM ORIGINAL EXCAVATION.
14. REMOVE EXCESS EXCAVATED MATERIAL.
15. INSTALL PERMANENT COVER TO MATCH EXISTING.

LEGEND:

- | | |
|--------|---|
| — W — | EXISTING UNDERGROUND WATER SERVICE |
| — S — | EXISTING UNDERGROUND SANITARY SEWER |
| — UE — | EXISTING UNDERGROUND ELECTRIC |
| — UT — | EXISTING UNDERGROUND COMMUNICATION |
| — OE — | EXISTING OVERHEAD WIRES |
| ⊙ | EXISTING UTILITY POLE |
| ⊙ | EXISTING MANHOLE |
| ⊙ | EXISTING WATER SERVICE METER |
| ⊙ | EXISTING WATER MAIN SHUT OFF VALVE |
| ⊙ | EXISTING WATER HYDRANT |
| ⊙ | EXISTING STORM DRAIN |
| — W — | PROPOSED 6"Ø C-900 PVC WATER SERVICE LINE |
| — W — | PROPOSED 2"Ø C-900 PVC WATER SERVICE LINE |
| — W — | PROPOSED 1"Ø C-900 PVC WATER SERVICE LINE |
| ⊙ | PROPOSED WATER METER |
| ⊙ | PROPOSED WATER VALVE |
| ⊙ | PROPOSED HYDRANT |
| ⊙ | PROPOSED SAMPLING STATION |
| ⊙ | PROPOSED AIR RELEASE VALVE |
| ⊙ | APPROXIMATE HORIZONTAL EXTENT OF POTENTIALLY DENSE MATERIAL THAT MAY BE ENCOUNTERED WITHIN THE VERTICAL EXTENT OF THE TRENCH EXCAVATION BASED ON INTERPRETATION OF GROUND PENETRATING RADAR (GPR) DATA COLLECTED DURING THE MONTHS OF OCTOBER AND NOVEMBER 2020 |

				<table><thead><tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr></thead><tbody><tr><td>1</td><td>11/20/2020</td><td>ISSUED FOR CONSTRUCTION</td><td>SHA</td></tr></tbody></table>	NO.	DATE	DESCRIPTION	BY	1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA	DRAWN BY: D. DOMBROWSKY DESIGNED BY: J. CORSELLO REVIEWED BY: E. DOUGLAS PROJECT MGR: S. SOOS PIC: M. NICOLORO DATE: NOVEMBER 2020	HANNAH'S REST WATERLINE REHABILITATION DESIGN VIRGIN ISLANDS WATER AND POWER AUTHORITY P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS	PROJECT NUMBER: 4348.02
					NO.	DATE	DESCRIPTION	BY							
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OVERALL SITE PLAN		SHEET NUMBER: P00													



- NOTES:
- SOIL CLASSIFICATION DATA OBTAINED FROM U.S. VIRGIN ISLANDS GEOSPACIAL INFORMATION SYSTEMS. USVI.MAPHEO.IO
 - FOR DETAILED DESCRIPTIONS OF SOIL TYPES NOTED ABOVE, SEE "SOIL SURVEY OF THE UNITED STATES VIRGIN ISLANDS" PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE AND THE NATURAL RESOURCES CONSERVATION SERVICE IN AUGUST 1998.
 - THE LOCATION OF DENSER SUBSURFACE MATERIAL HAS BEEN APPROXIMATED USING GROUND PENETRATING RADAR (GPR) AND SHOWN ON THE PIPE LINE PROFILE. GPR DATA WAS COLLECTED BY BSCS - DISPOVA, LLC DURING THE MONTH OF APRIL 2018.

- LEGEND:
- PROPOSED 6"Ø C-900 PVC WATER SERVICE LINE
 - EXISTING WATER LINES FROM THE CAMPO RICO PROJECT

GRAPHICAL SCALE

200' 100' 0' 200' 400'

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DRAWN BY: D. DOMBROWSKY
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REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

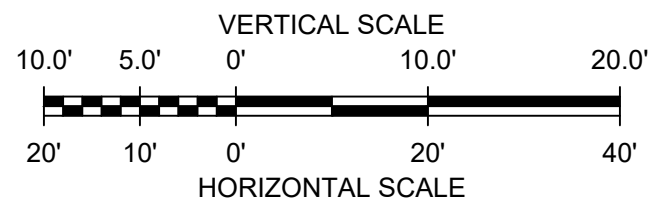
PROPOSED WATER SERVICE LINE LAYOUT

PROJECT NUMBER:
4348.02

SHEET NUMBER:
P02



1. SEE SHEET P01 FOR ADDITIONAL NOTES AND LEGEND.

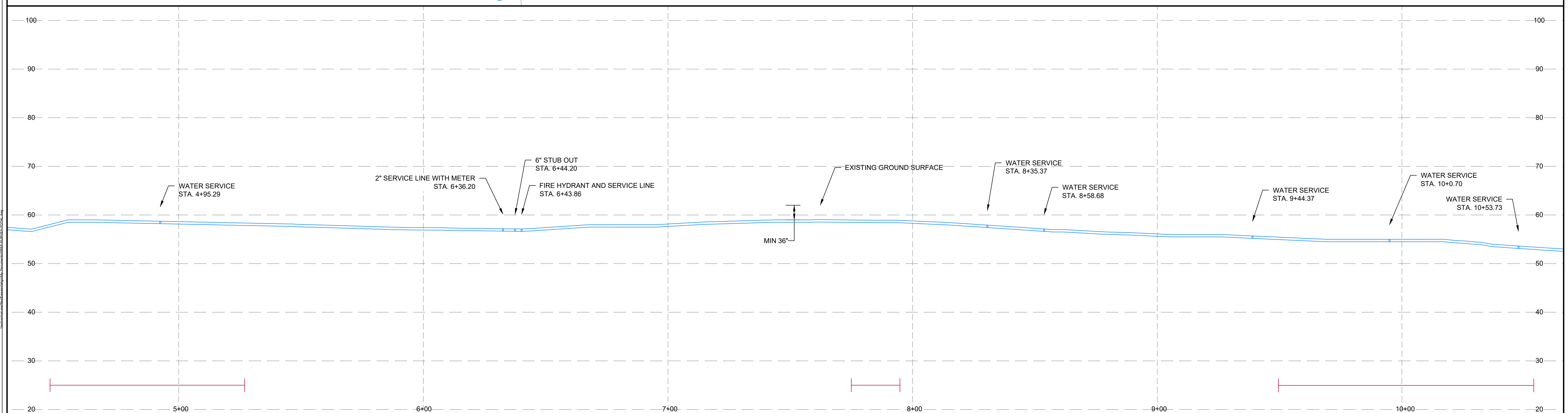
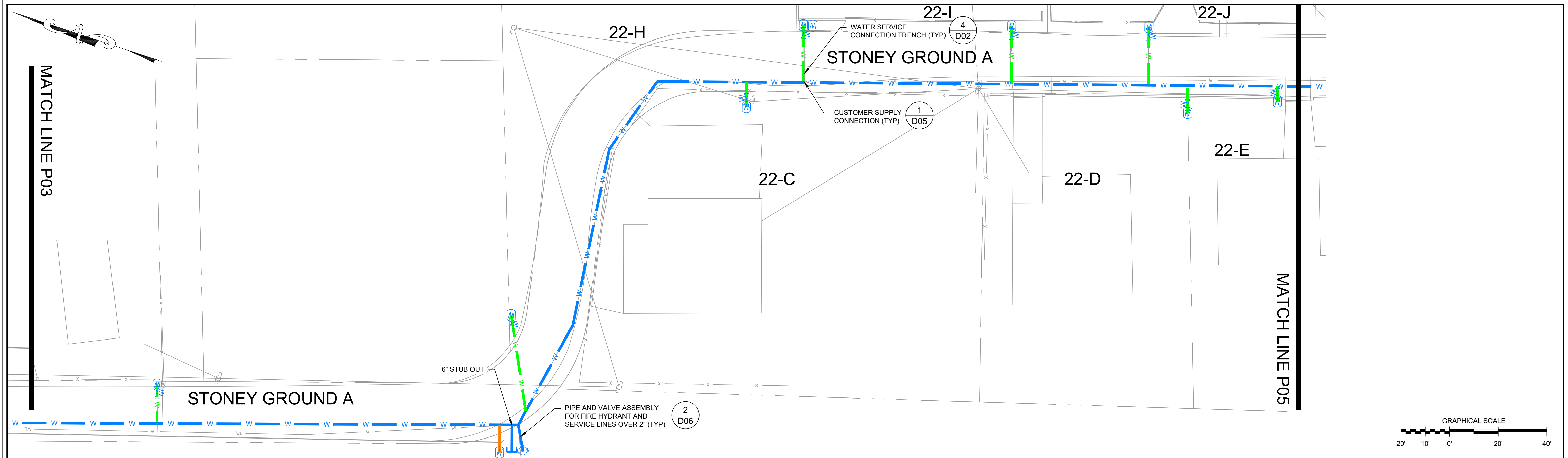


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REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

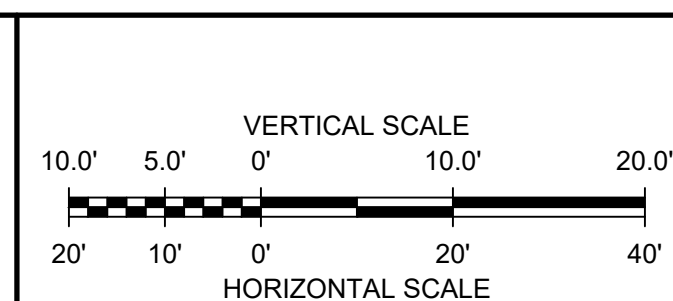
PLAN AND PROFILE STONEY GROUND A

PROJECT NUMBER:	4348.02
SHEET NUMBER:	P03



NOTES:

1. SEE SHEET P01 FOR ADDITIONAL NOTES AND LEGEND.



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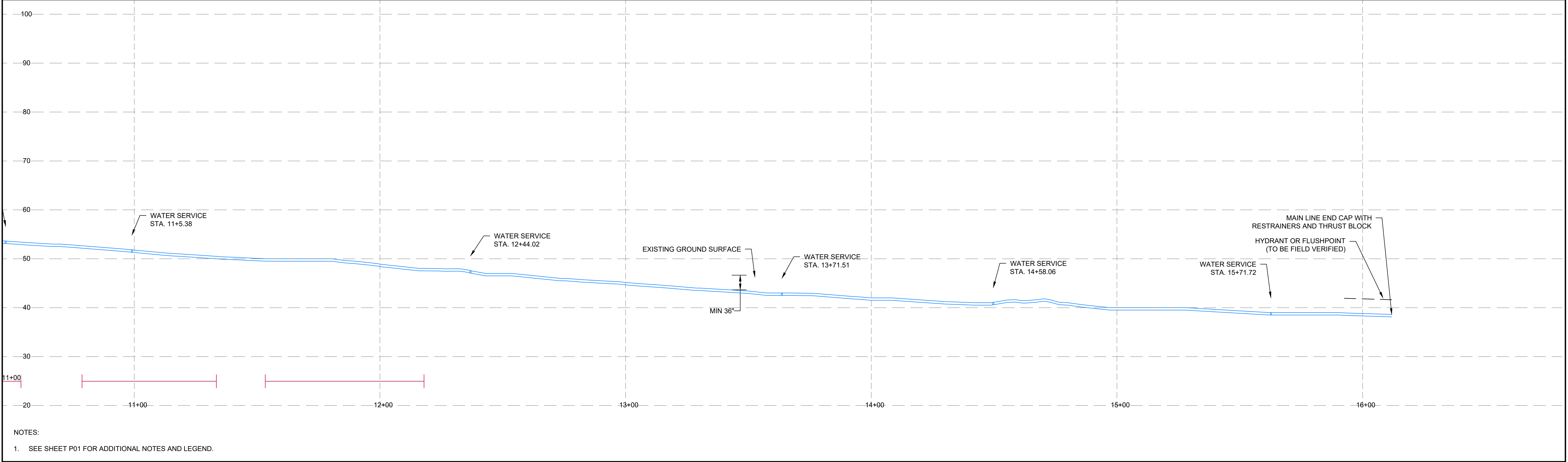
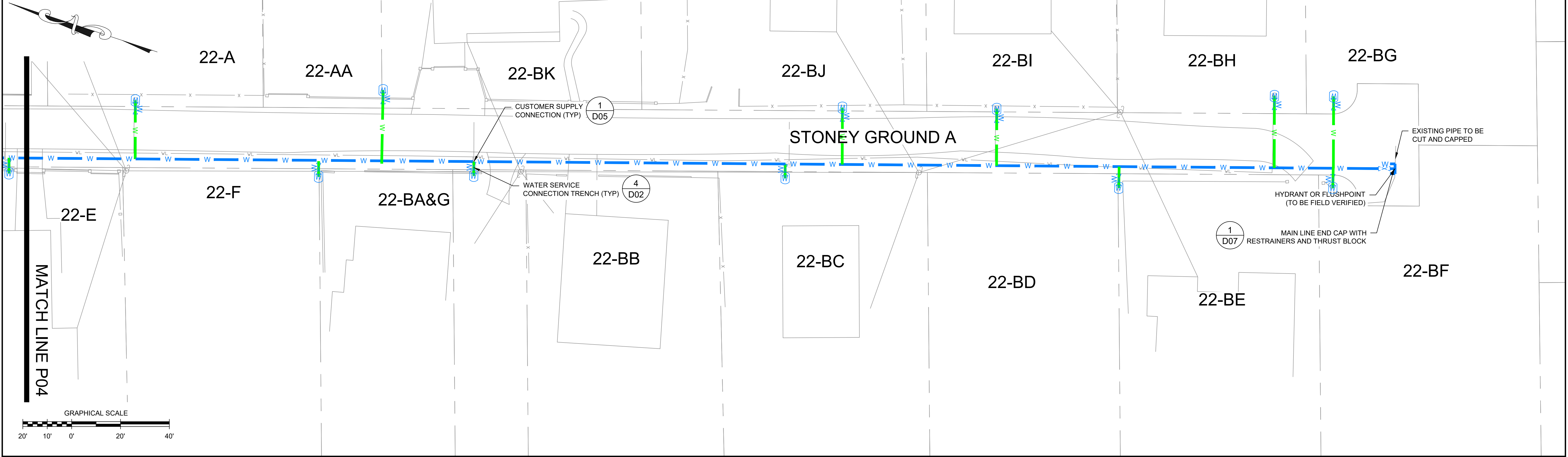
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REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

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VIRGIN ISLANDS WATER AND POWER AUTHORITY
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PROJECT NUMBER:	4348.02
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PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

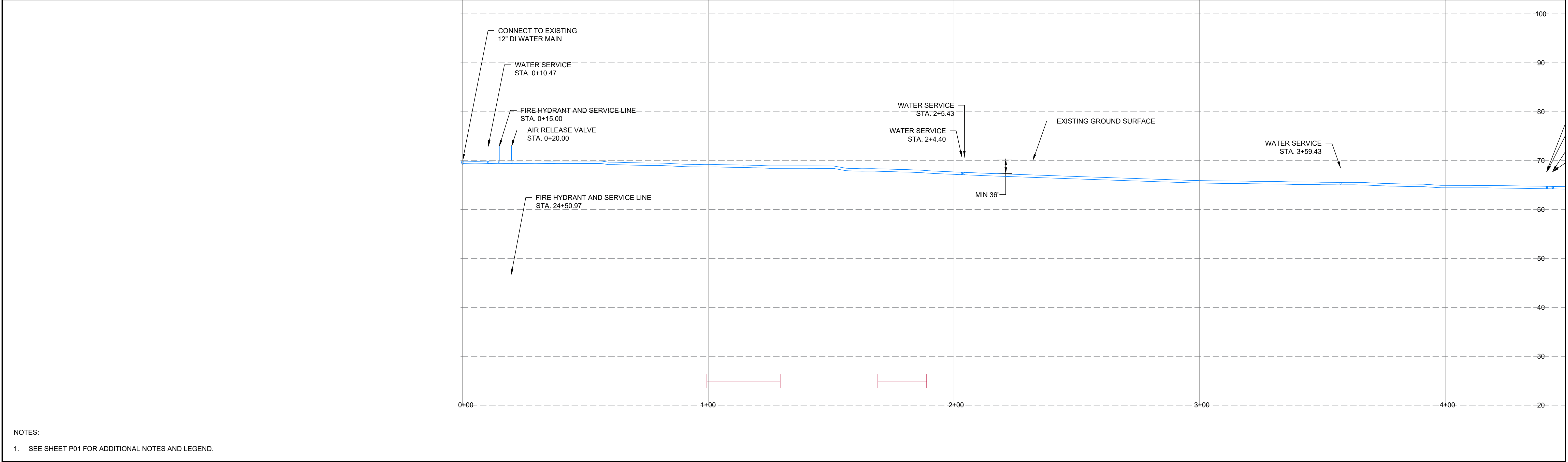
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PLAN AND PROFILE
STONEY GROUND A

PROJECT NUMBER:
4348.02

SHEET NUMBER:
P05

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VERTICAL SCALE

10.0'

5.0'

0'

10.0'

20.0'

20'

10'

0'

20'

40'

HORIZONTAL SCALE

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PROJECT MGR: S. SOOS
PIC: M. NICOLORO
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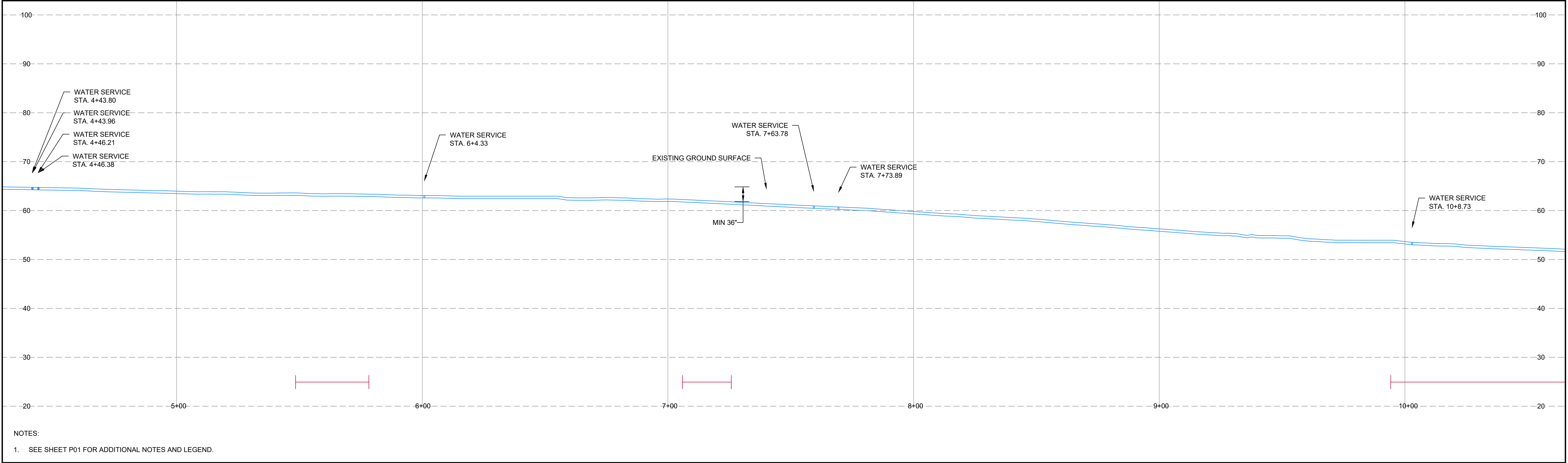
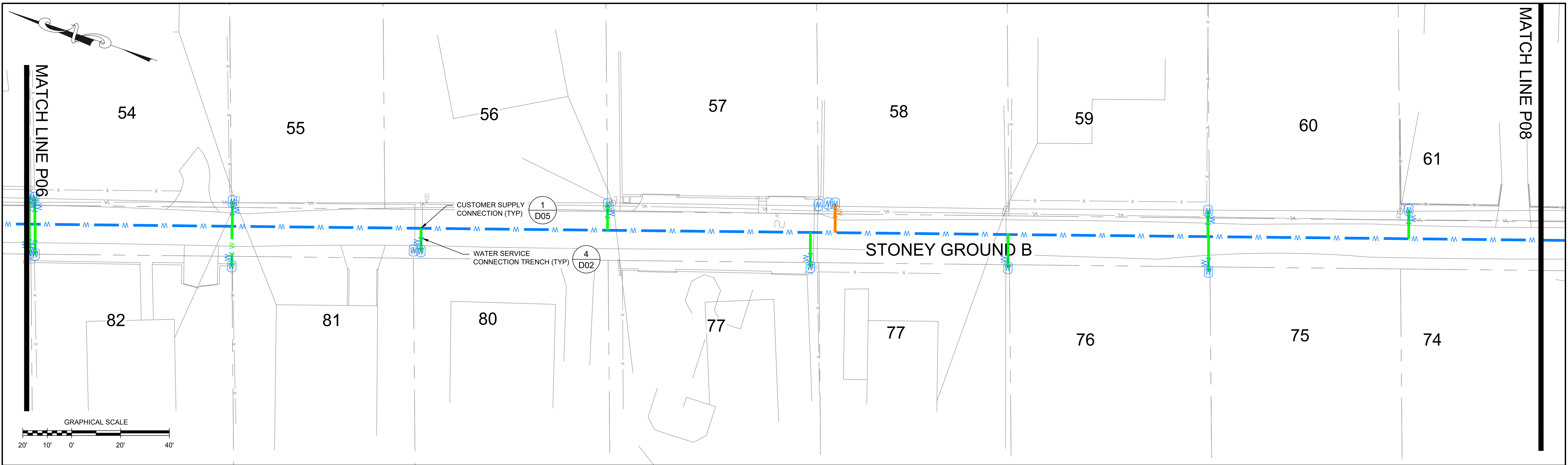
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PLAN AND PROFILE
STONEY GROUND B

PROJECT NUMBER:
4348.02

SHEET NUMBER:
P06

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NOTES:

1. SEE SHEET P01 FOR ADDITIONAL NOTES AND LEGEND.

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PIC: M. NICOLORO
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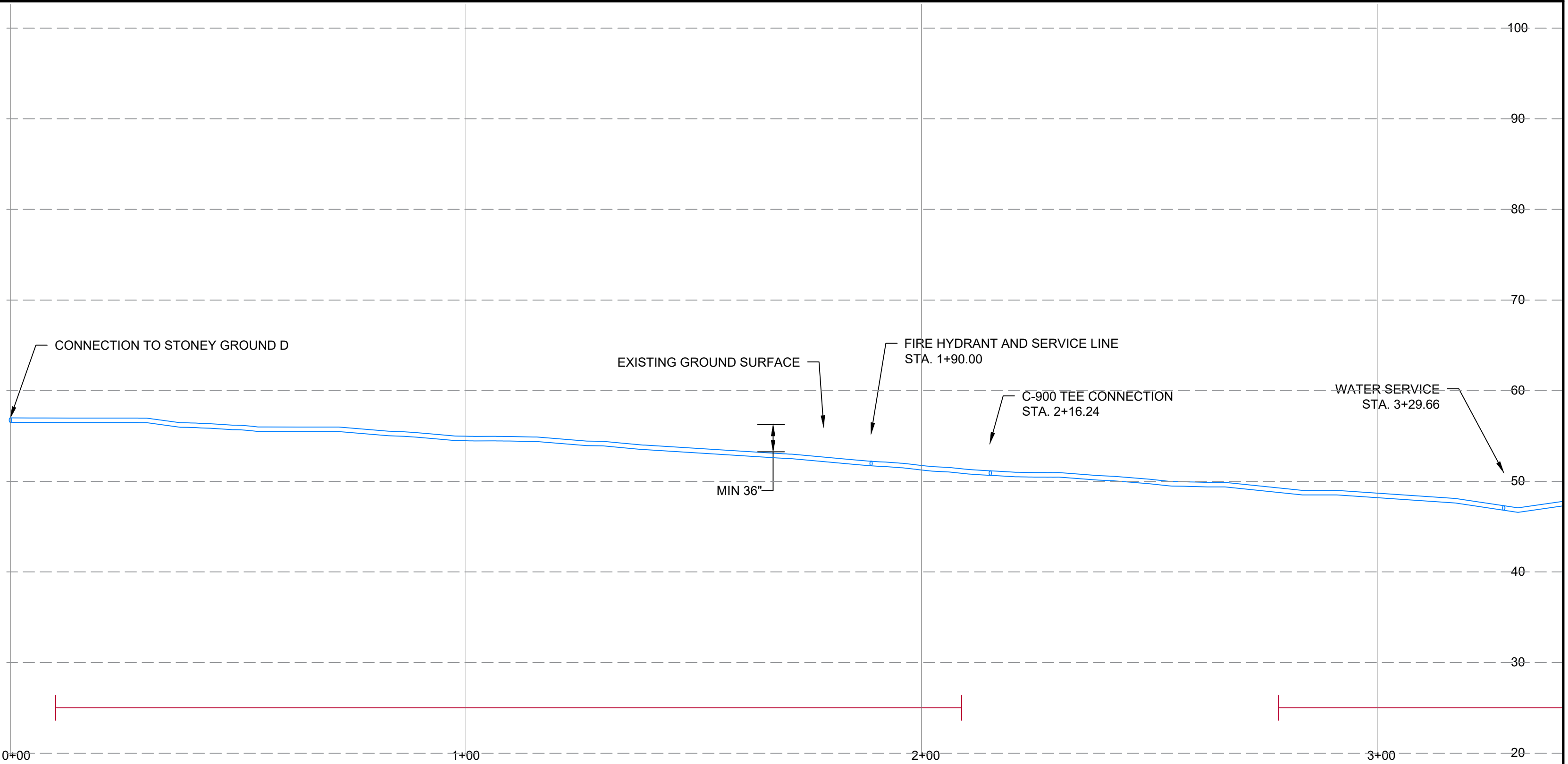
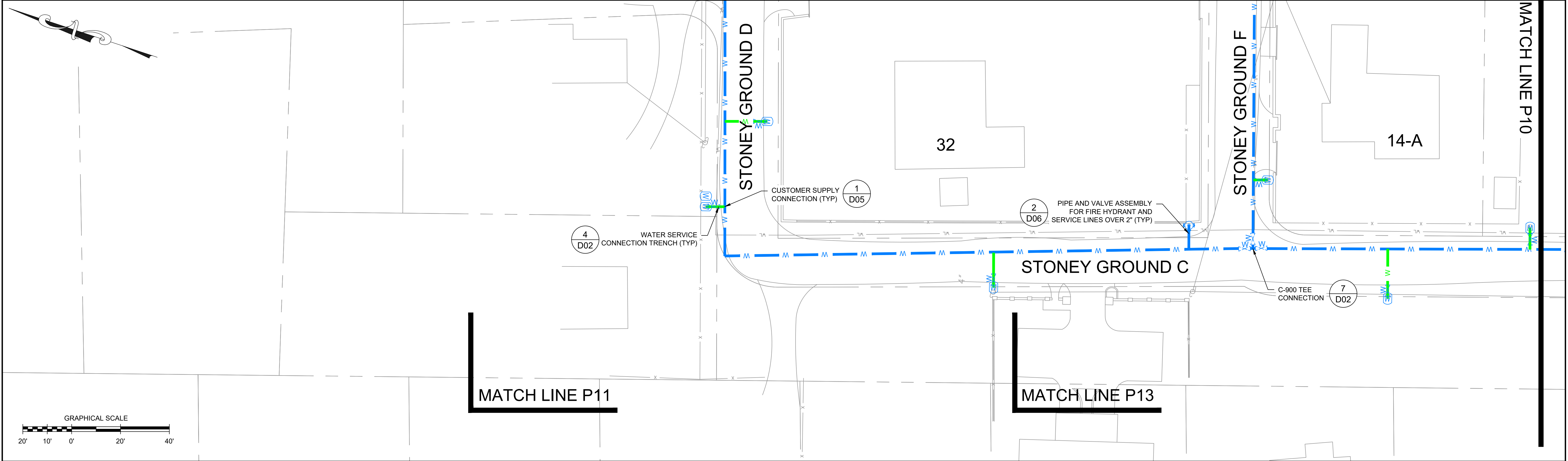
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4348.02

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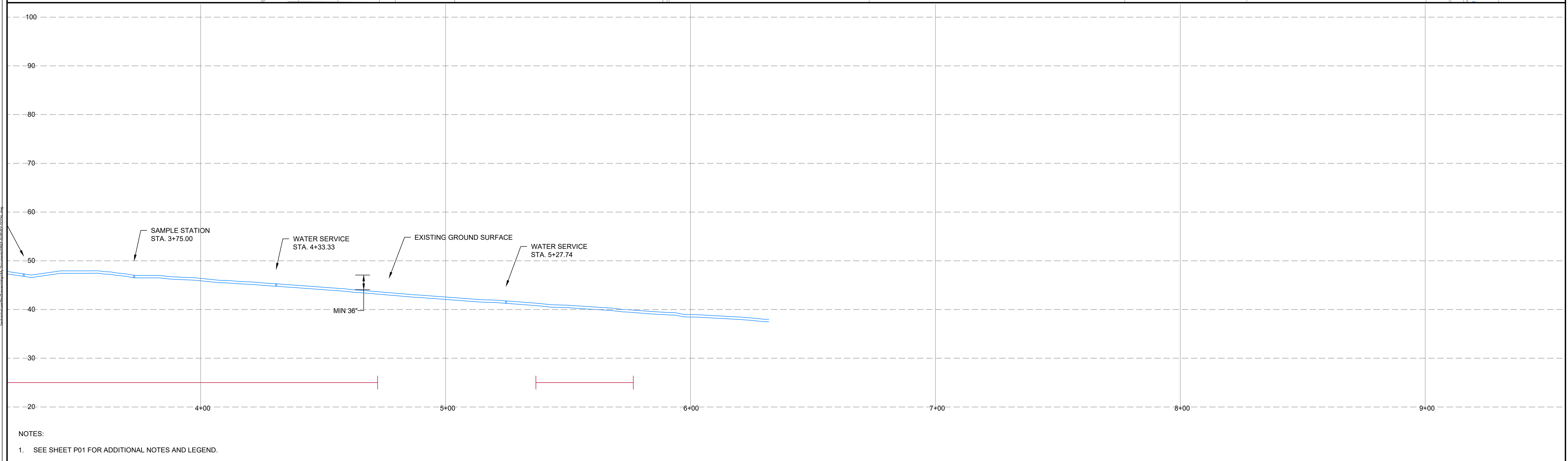
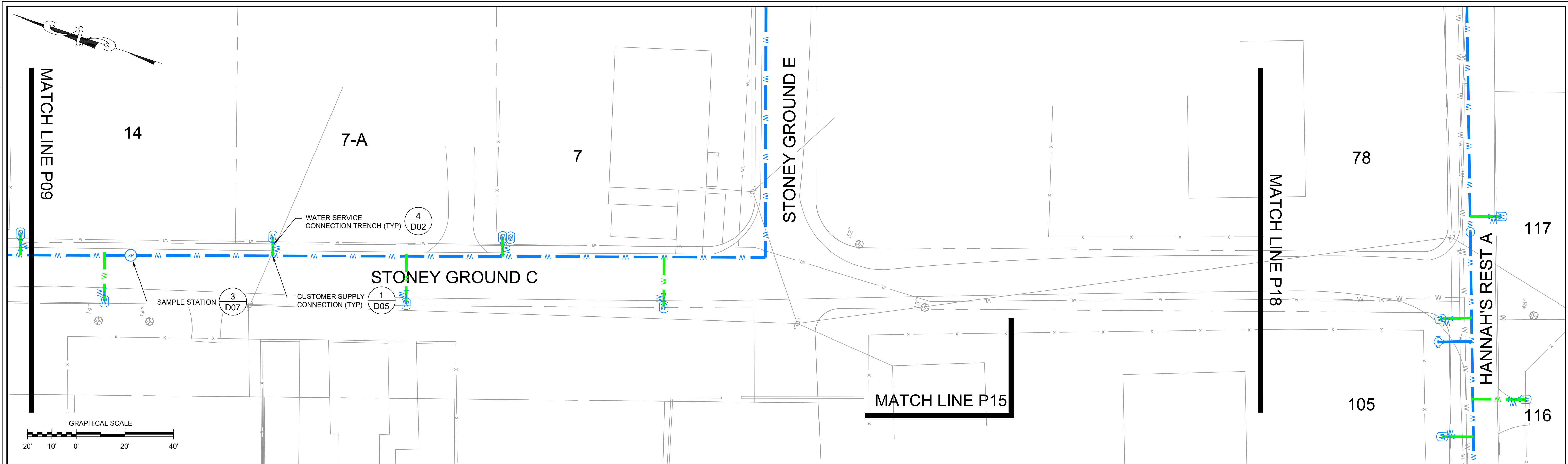
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STONEY GROUND B





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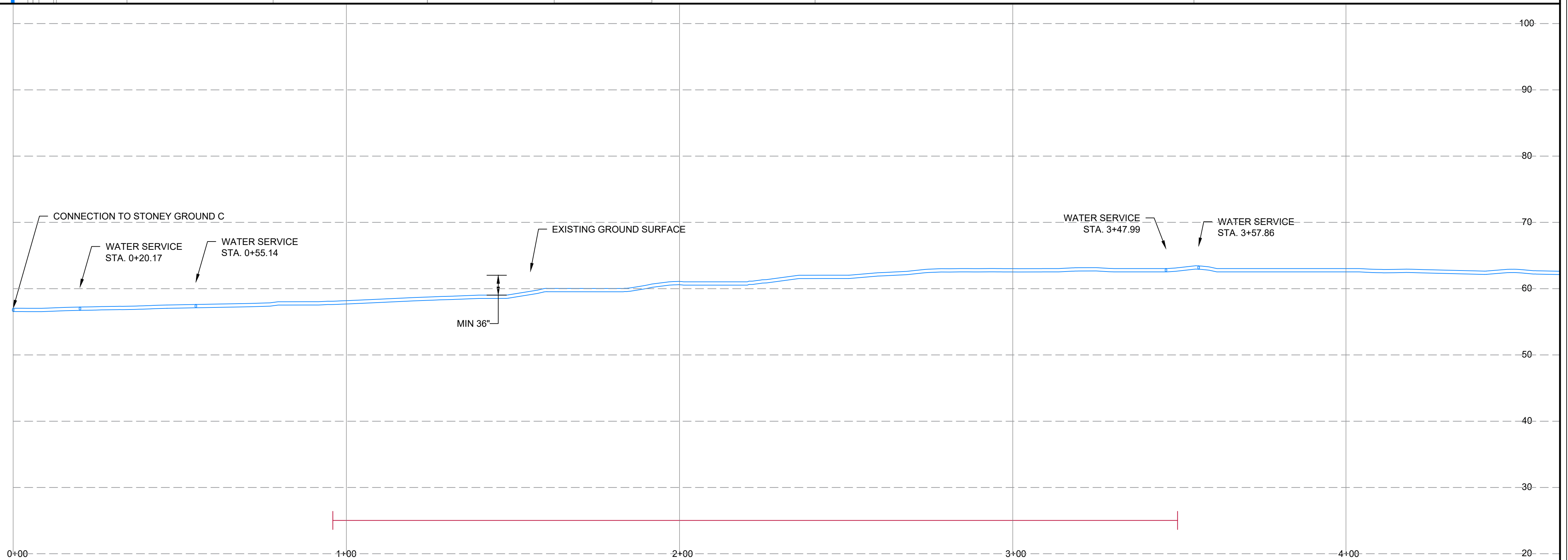
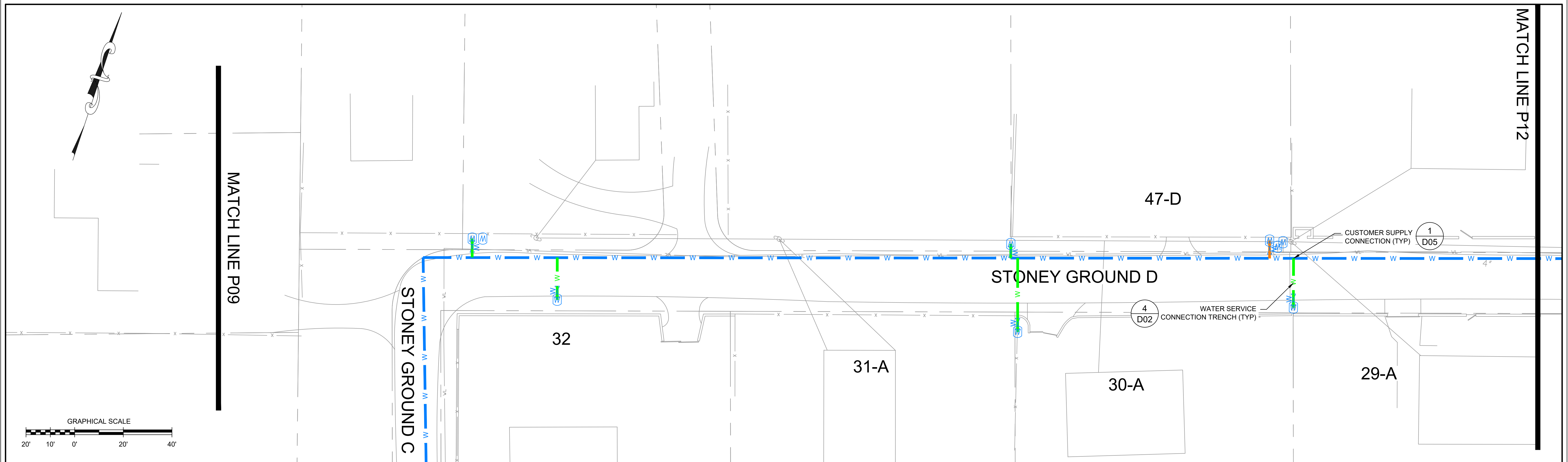


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PLAN AND PROFILE	SHEET NUMBER:																													
STONEY GROUND C	P09																													

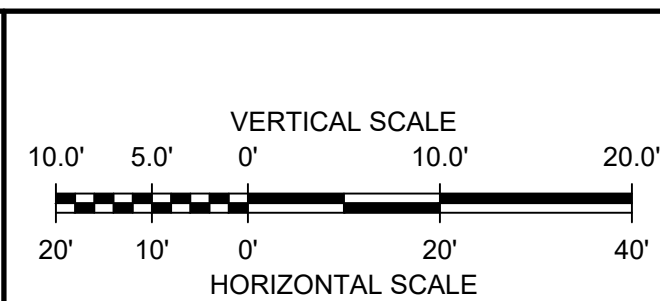


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NOTES:

1. SEE SHEET P01 FOR ADDITIONAL NOTES AND LEGEND.



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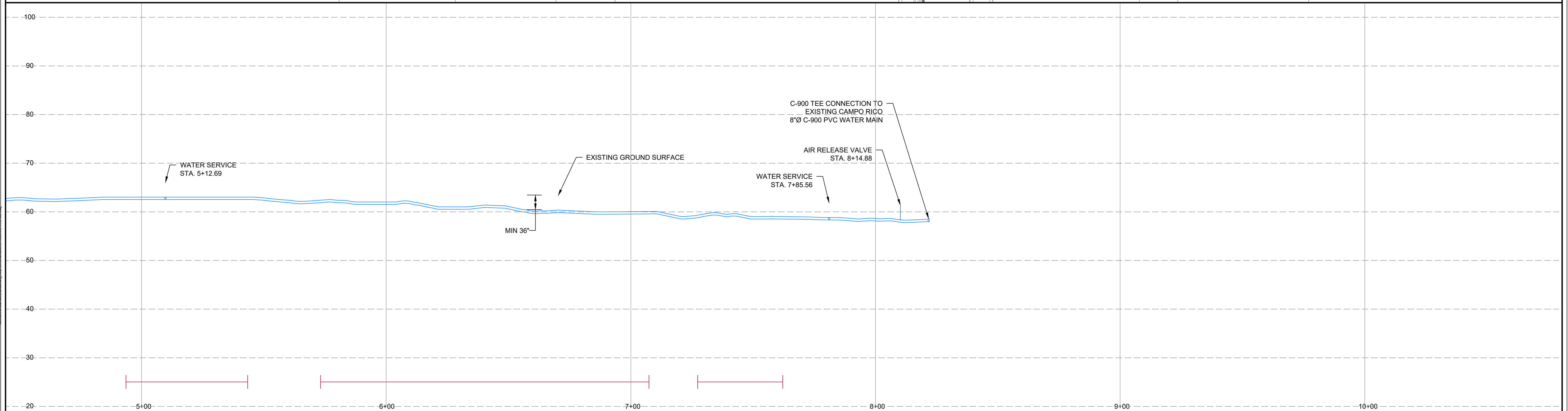
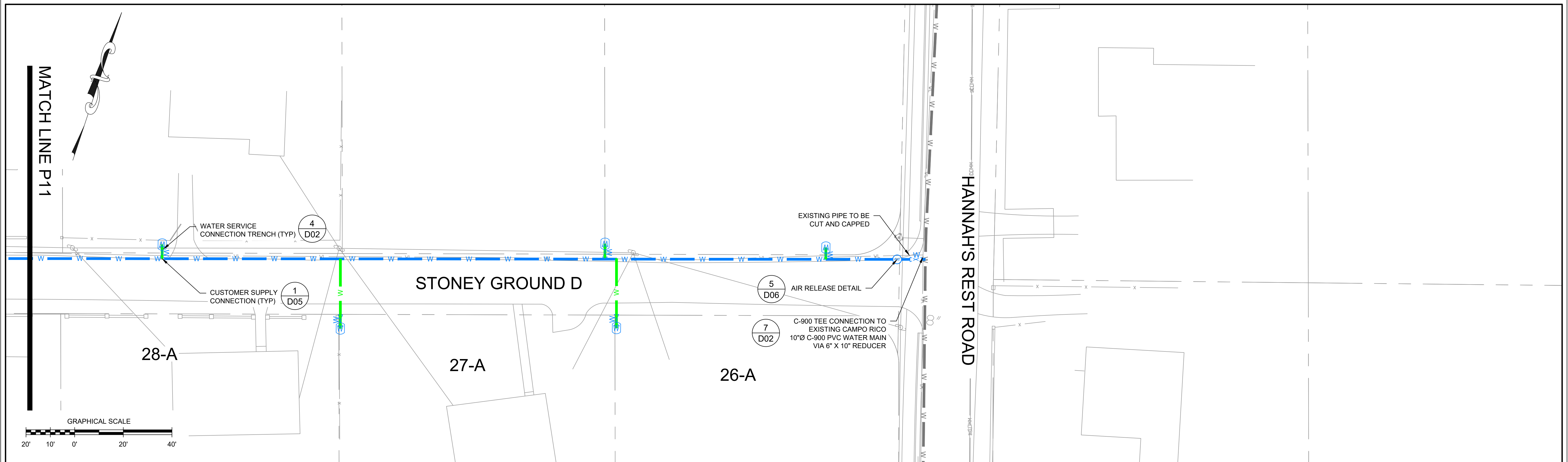
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DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
 P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PLAN AND PROFILE STONEY GROUND D

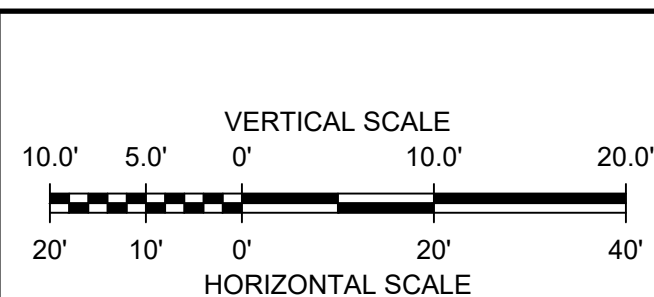
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NOTES:

1. SEE SHEET P01 FOR ADDITIONAL NOTES AND LEGEND.



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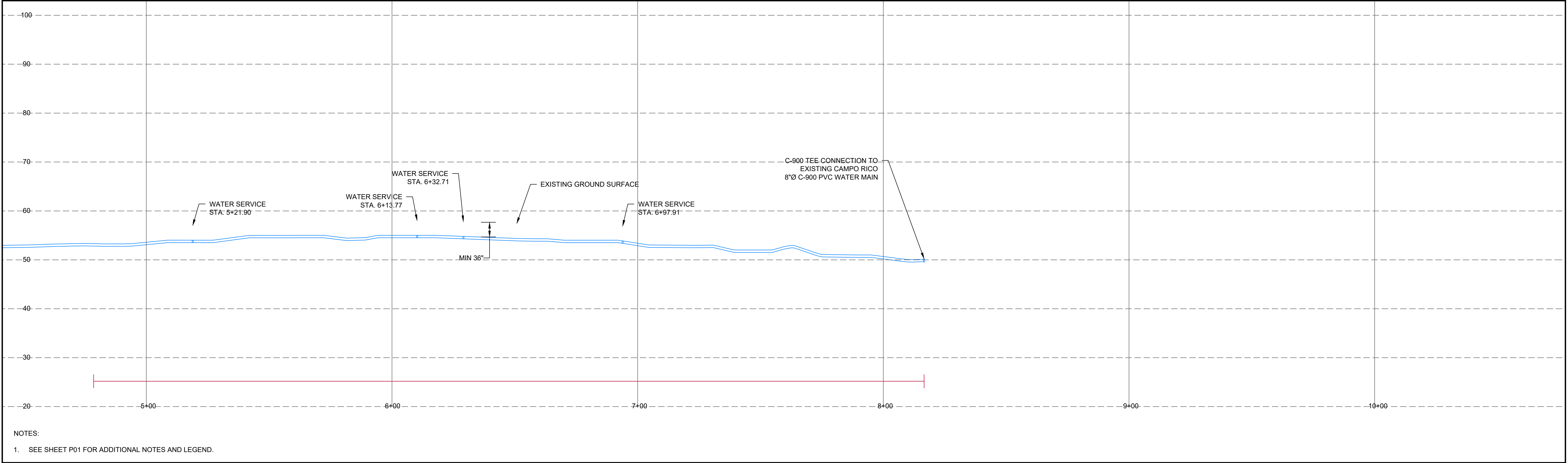
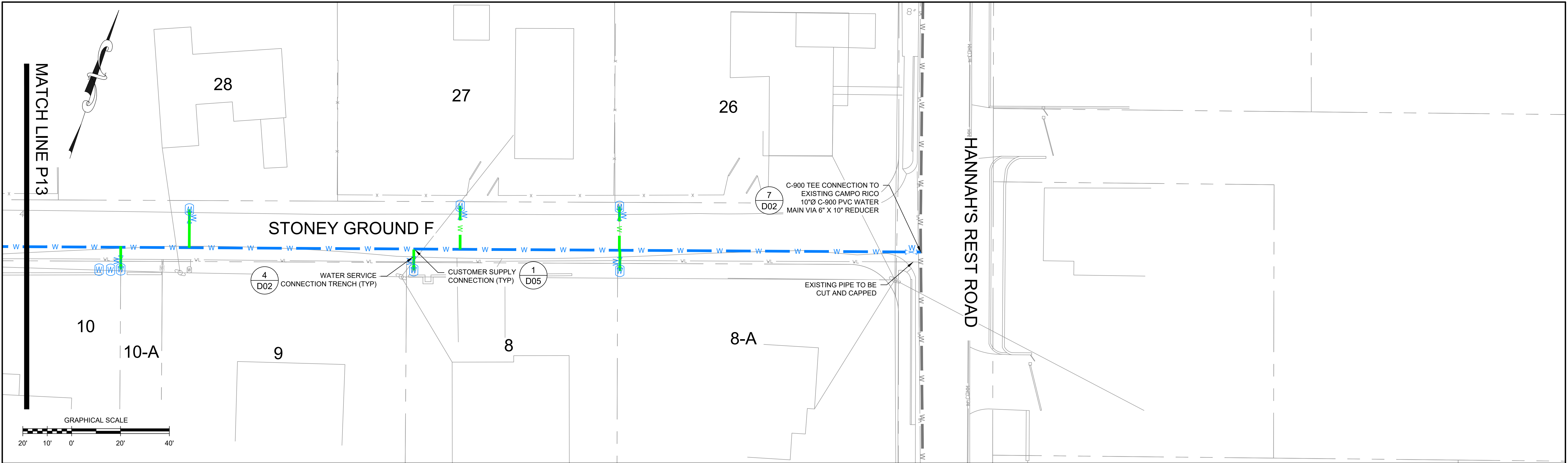
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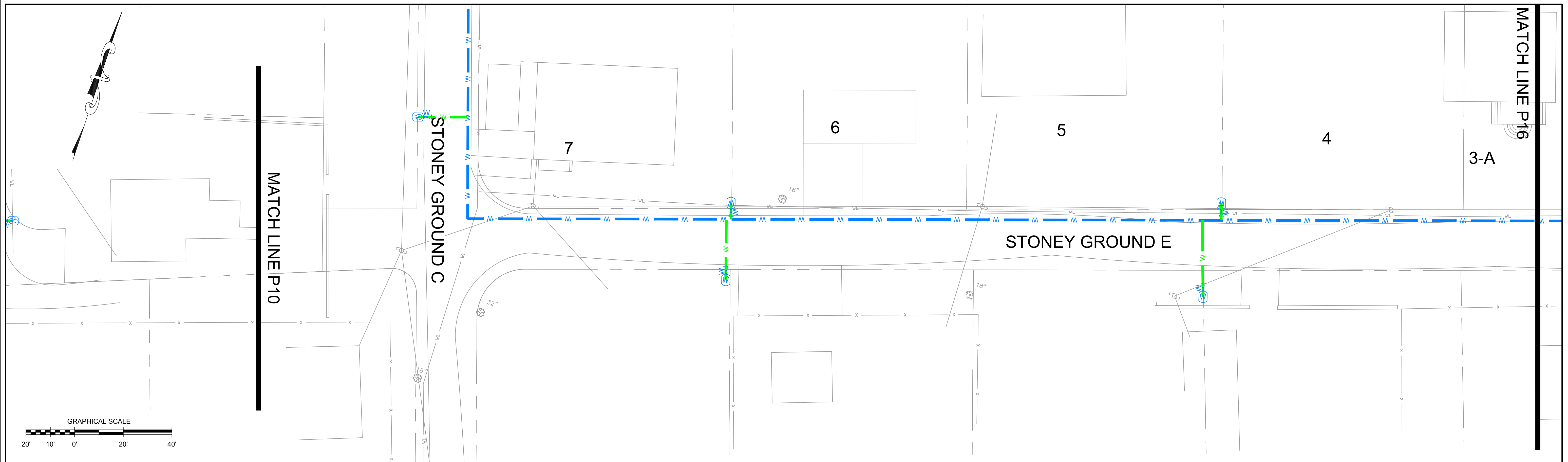
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PLAN AND PROFILE
STONEY GROUND

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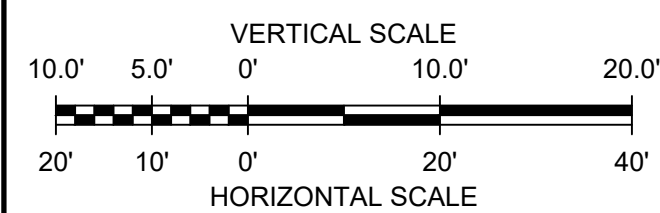
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NOTES:

1. SEE SHEET P01 FOR ADDITIONAL NOTES AND LEGEND.



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DESIGNED BY: J. CORSELLO
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HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
 P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PLAN AND PROFILE STONEY GROUND E

PROJECT NUMBER:
4348.02

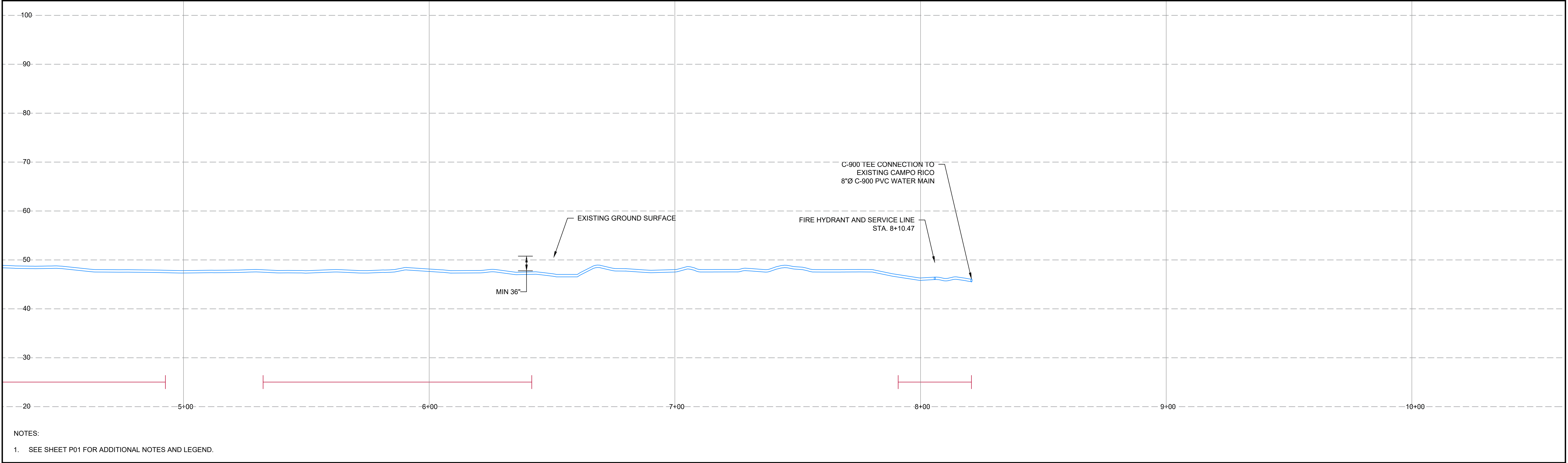
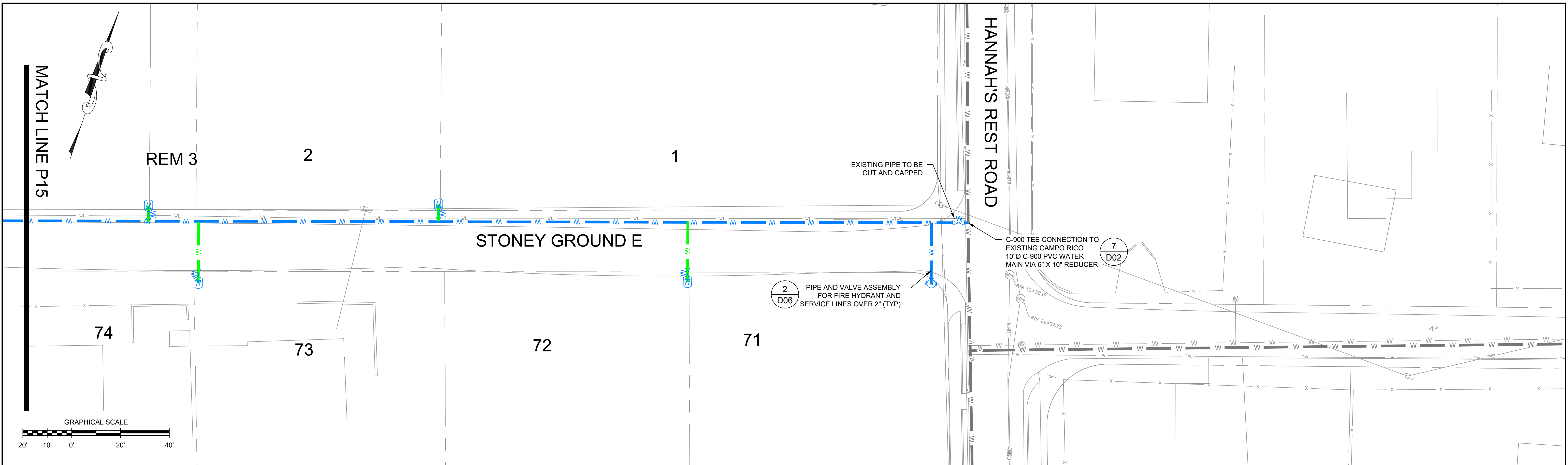
HEET NUMBER:
P15

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LAYOUT: 16
PLOT DATE: 12/8/21 2:19PM



1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA
NO.	DATE	DESCRIPTION	BY

DRAWN BY: D. DOMBROWSKY

DESIGNED BY: J. CORSELLO

REVIEWED BY: E. DOUGLAS

PROJECT MGR: S. SOOS

PIC: M. NICOLORO

DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN

VIRGIN ISLANDS WATER AND POWER AUTHORITY

P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PROJECT NUMBER:

4348.02

SHEET NUMBER:

P16

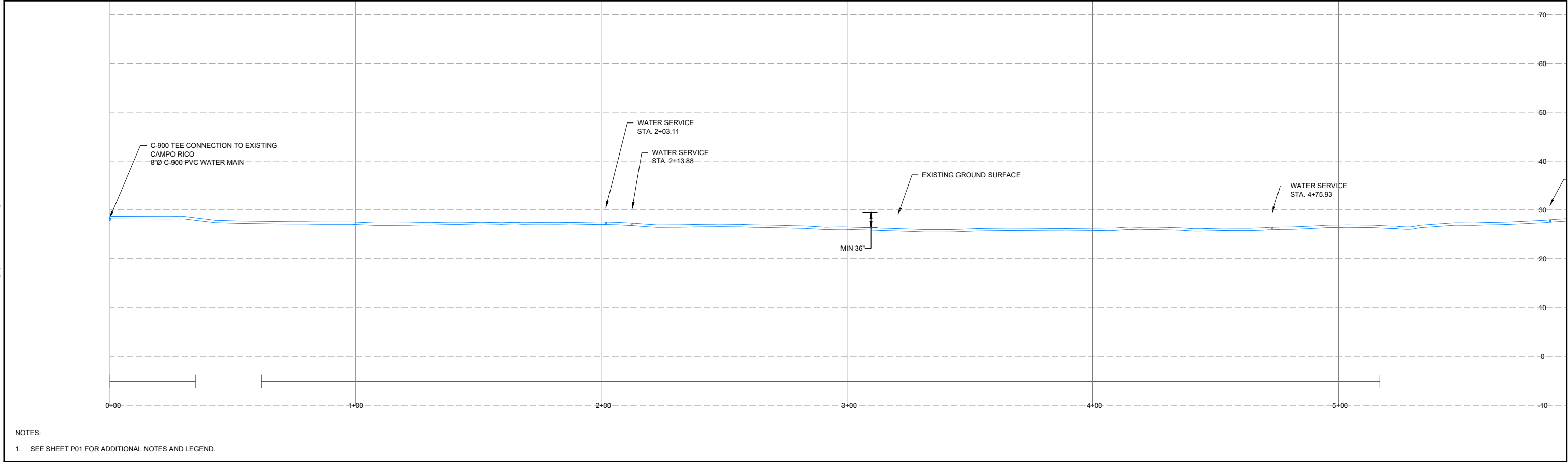
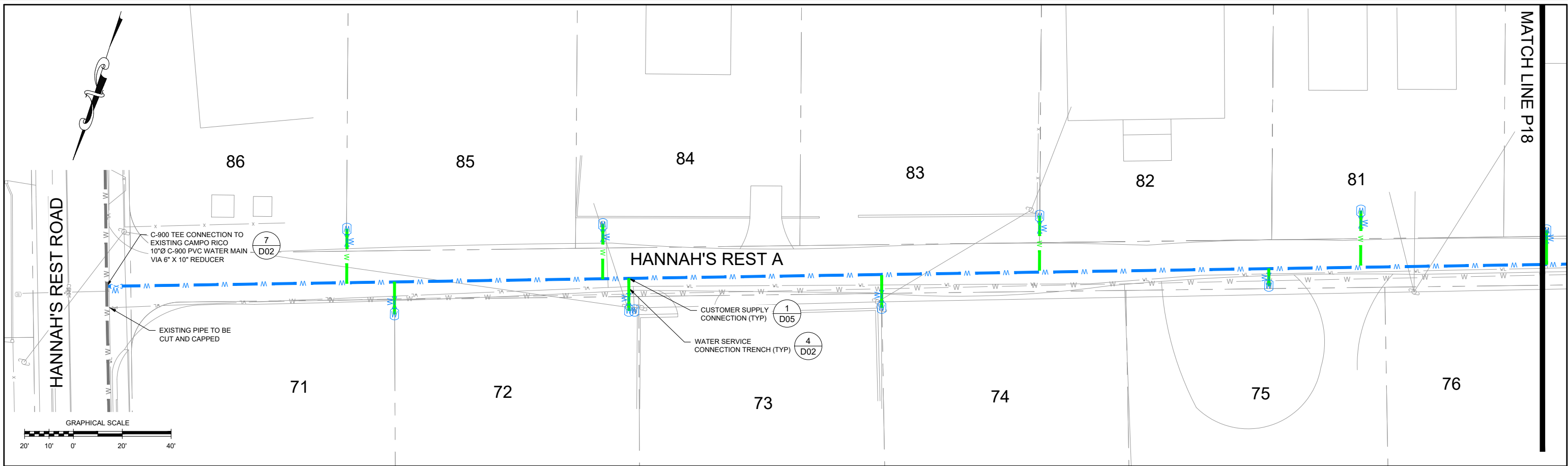
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NAME: Hannah's Rest
FILE: Hannah's Rest.dwg

PROJECT: Virgin Islands Water and Power Authority
LOCATION: St. Croix, U.S. Virgin Islands
DATE: 11/20/2020

PROJECT: Virgin Islands Water and Power Authority
LOCATION: St. Croix, U.S. Virgin Islands
DATE: 11/20/2020



NOTES:

1. SEE SHEET P01 FOR ADDITIONAL NOTES AND LEGEND.

SANBORN HEAD

VERTICAL SCALE: 10.0' 5.0' 0' 10.0' 20.0'

HORIZONTAL SCALE: 20' 10' 0' 20' 40'

Caritech

Stamp Dated.tif

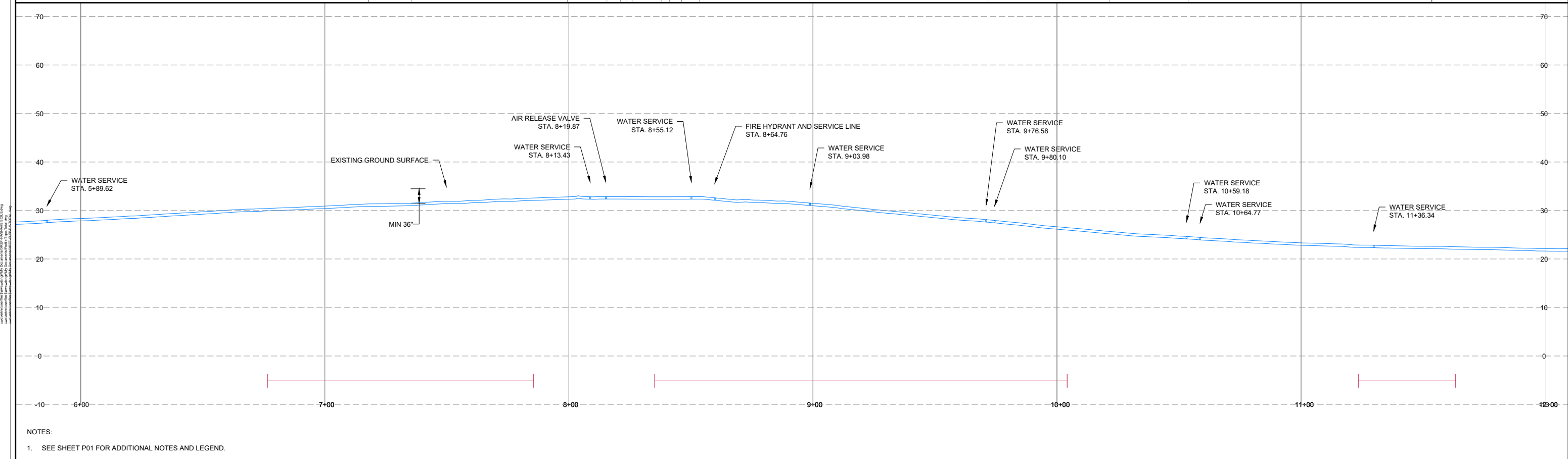
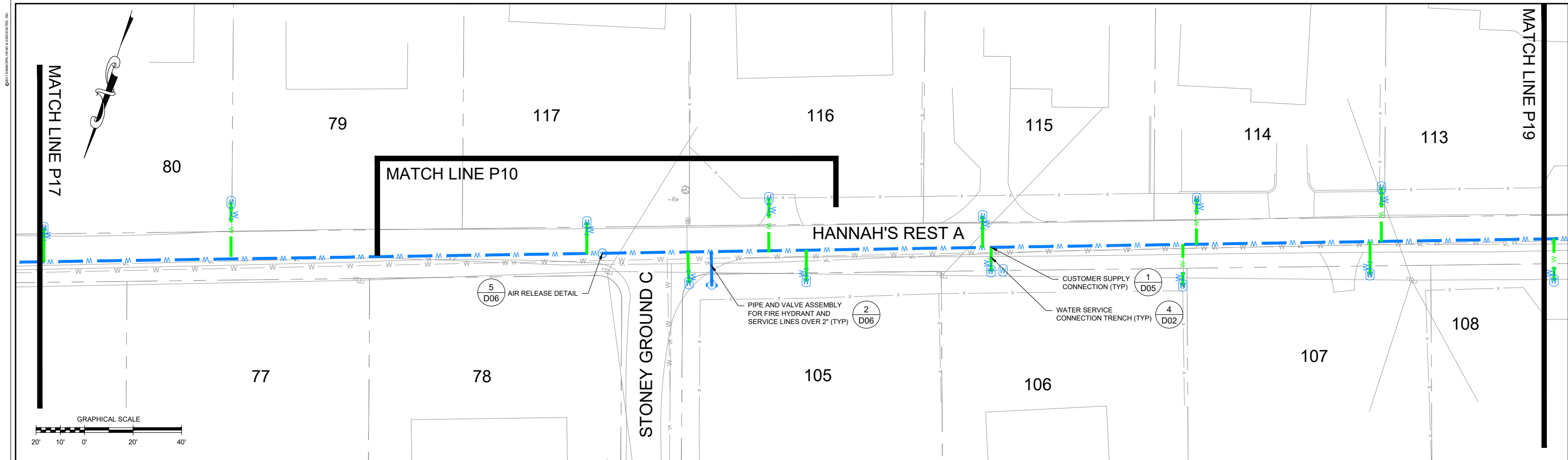
NO.	DATE	DESCRIPTION	BY
1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA

DRAWN BY: D. DOMBROWSKY
DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PLAN AND PROFILE
HANNAH'S REST

PROJECT NUMBER: 4348.02
SHEET NUMBER: P17



1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA
DATE	DESCRIPTION	BY	

DRAWN BY: D. DOMBROWSKY

DESIGNED BY: J. CORSELLO

REVIEWED BY: E. DOUGLAS

PROJECT MGR: S. SOOS

PIC: M. NICOLORO

DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN

VIRGIN ISLANDS WATER AND POWER AUTHORITY

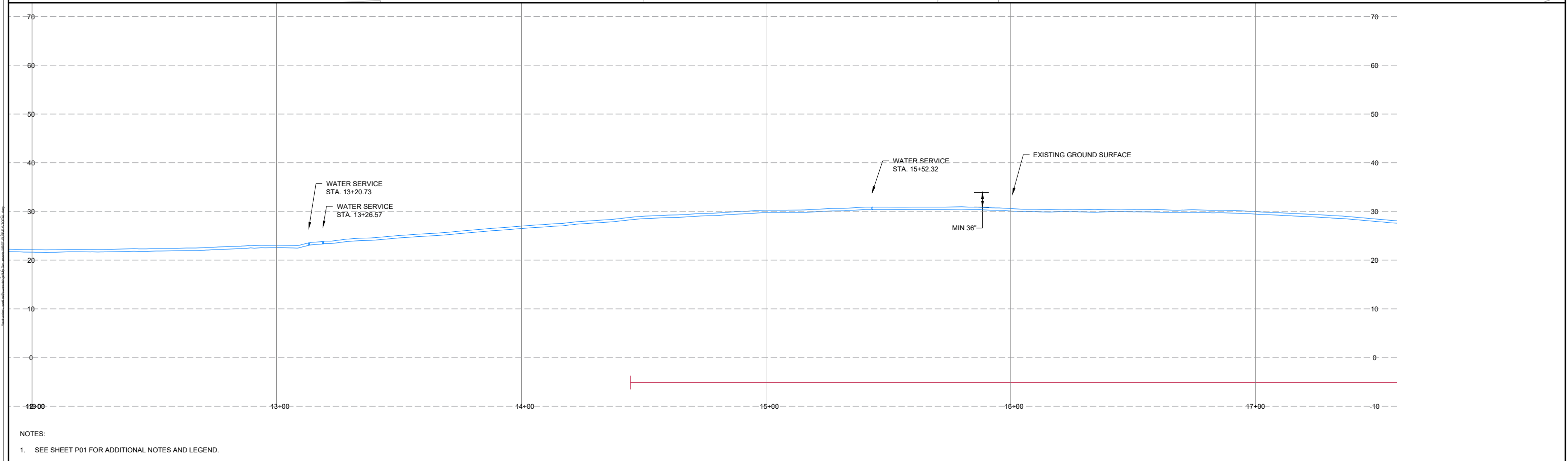
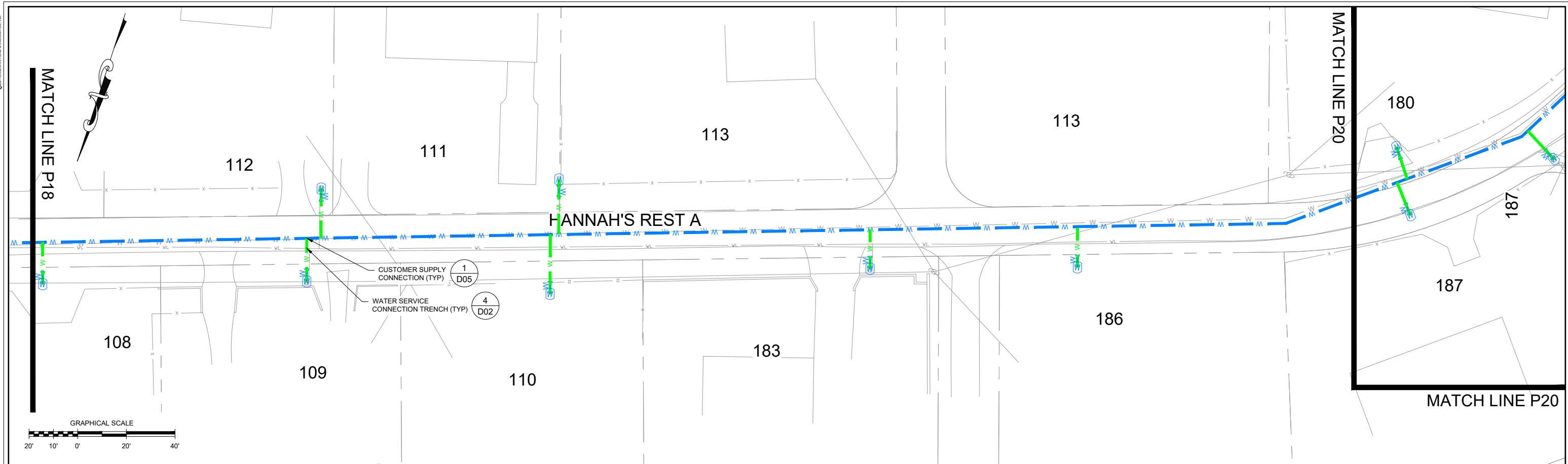
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PROJECT NUMBER:

4348.02

SHEET NUMBER:

P18



Technical Drawing Details:

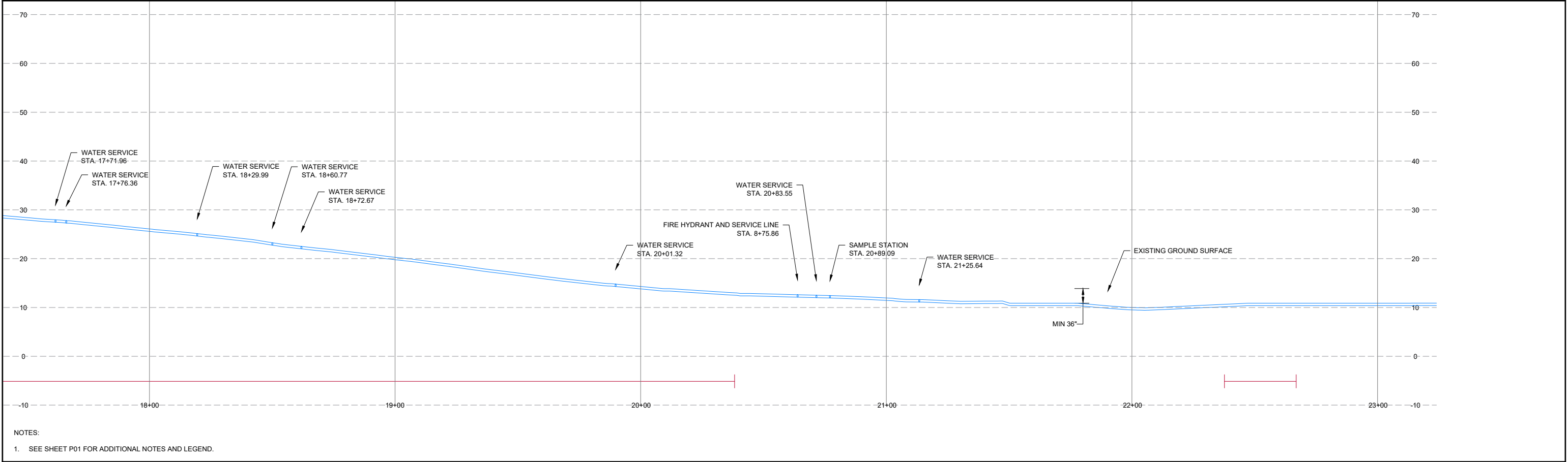
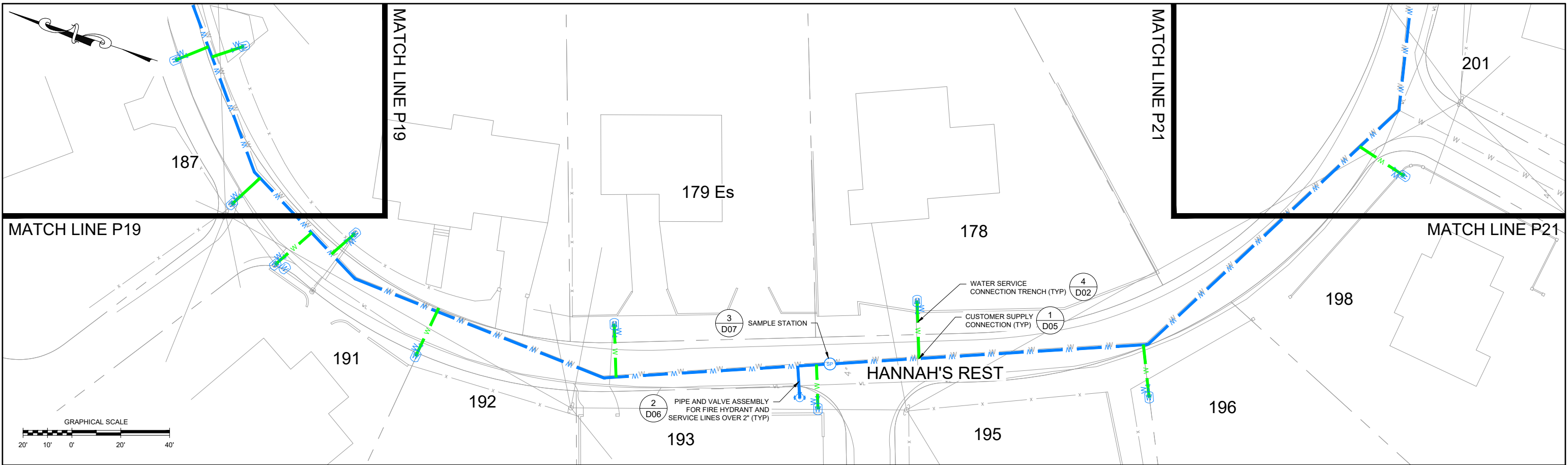
- Title:** HANNAH'S REST WATERLINE REHABILITATION DESIGN
- Project Number:** 4348.02
- Sheet Number:** P19
- Drawn By:** D. DOMBROWSKY
- Designed By:** J. CORSELLO
- Reviewed By:** E. DOUGLAS
- Project Mgr:** S. SOOS
- PIC:** M. NICOLORO
- Date:** NOVEMBER 2020
- Issued For:** CONSTRUCTION
- Scale:** VERTICAL SCALE 0' to 20.0'; HORIZONTAL SCALE 0' to 40'
- North Arrow:** Indicated by a blue arrow pointing upwards.
- Profile:** Shows a waterline with a depth of approximately 10 feet.

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NAME: Hannah's Rest
SHEET: P00

PROJECT: Virgin Islands Water and Power Authority
SHEET: P00

DATE: 11/20/2020
TIME: 2:19:42 PM



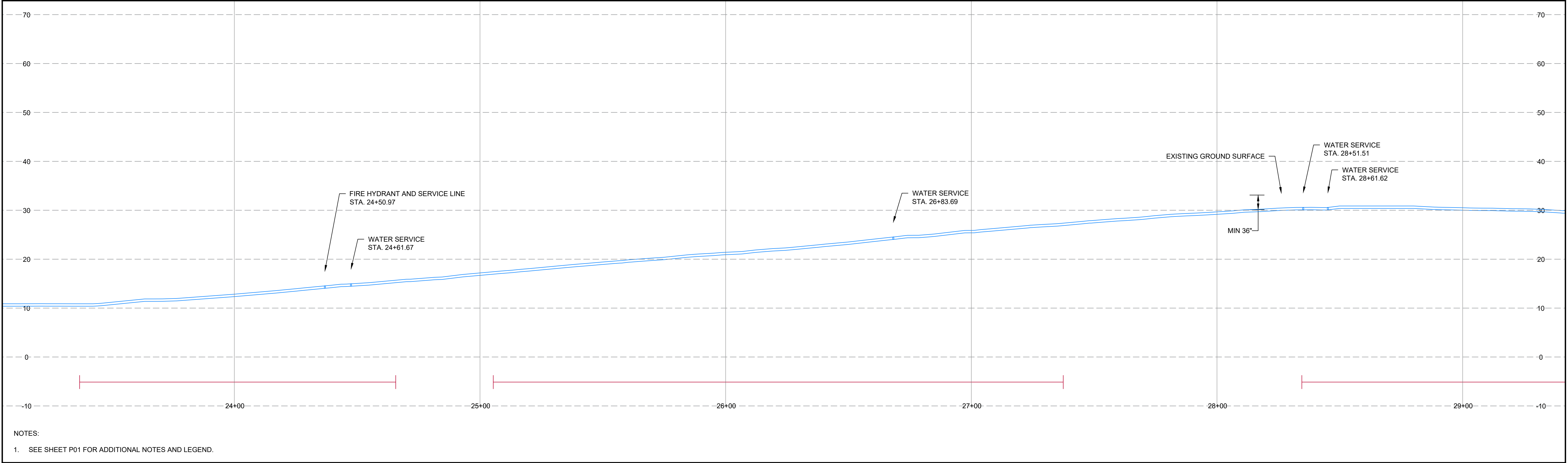
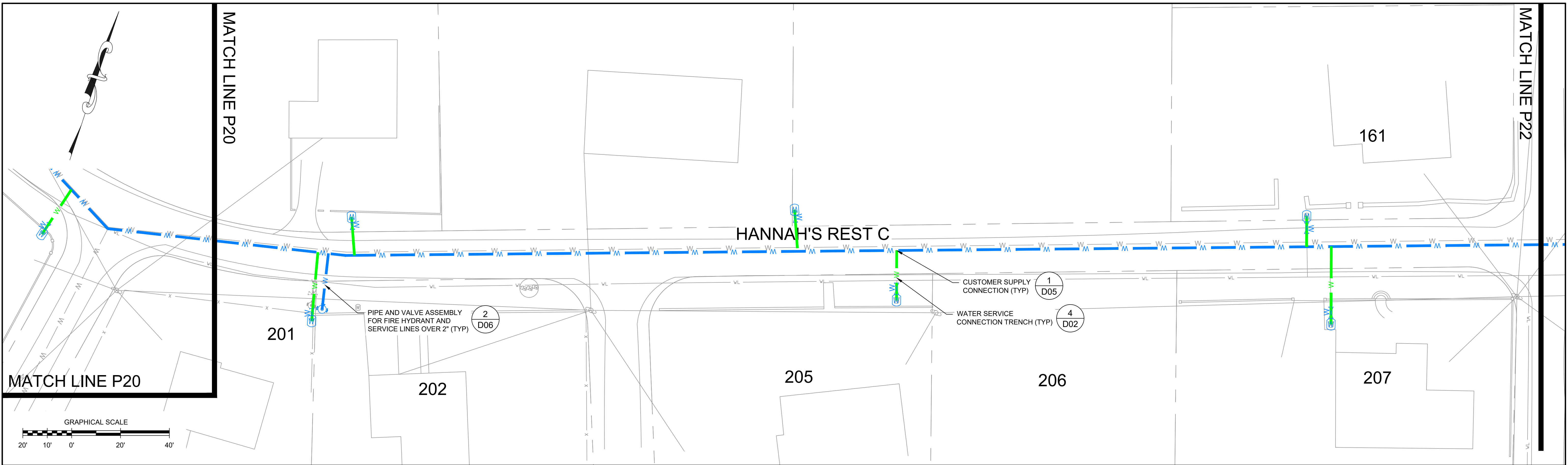
1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA
DATE	DESCRIPTION	BY	

DRAWN BY: D. DOMBROWSKY
DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PROJECT NUMBER:
4348.02

SHEET NUMBER:
P20



VERTICAL SCALE
10.0' 5.0' 0' 10.0' 20.0'
HORIZONTAL SCALE
20' 10' 0' 20' 40'

1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA
NO.	DATE	DESCRIPTION	BY

DRAWN BY: D. DOMBROWSKY
DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PROJECT NUMBER:
4348.02

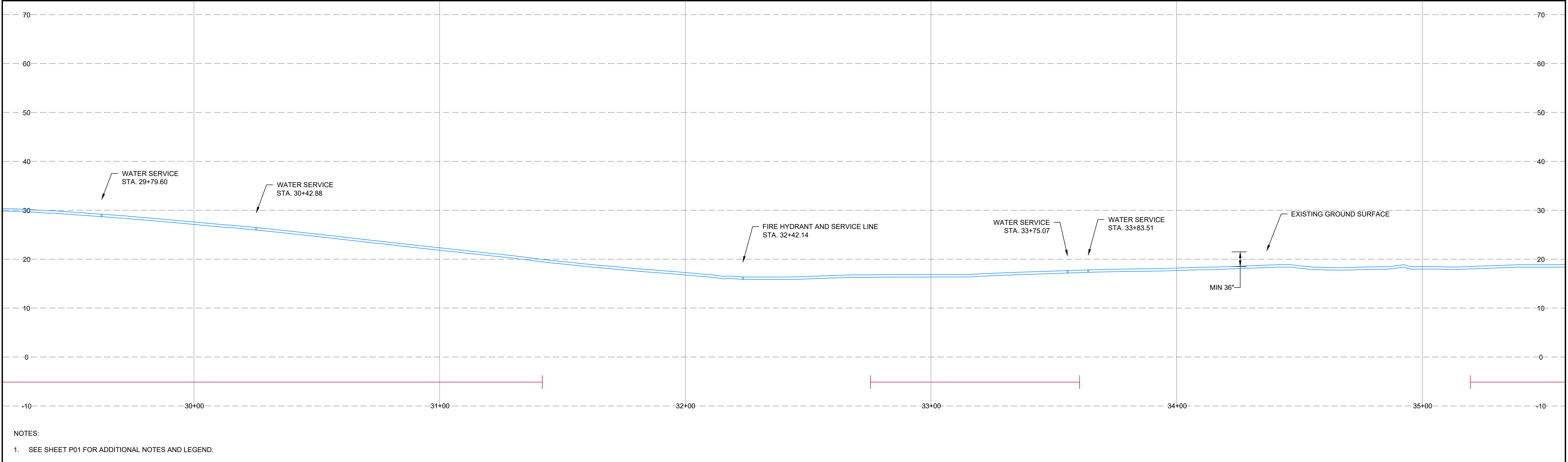
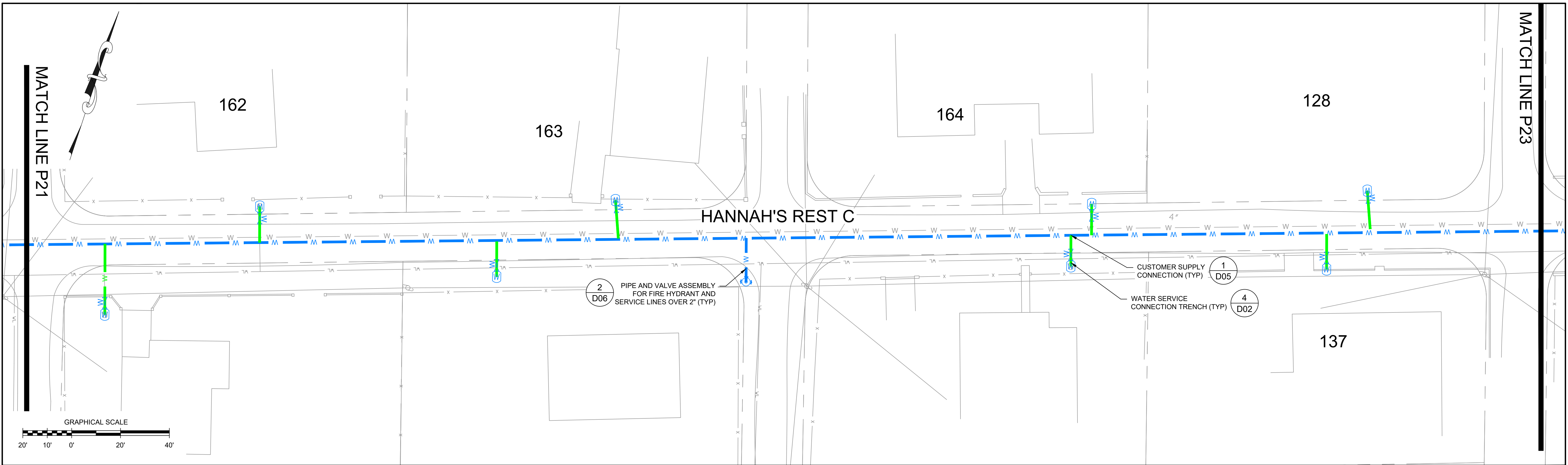
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P21

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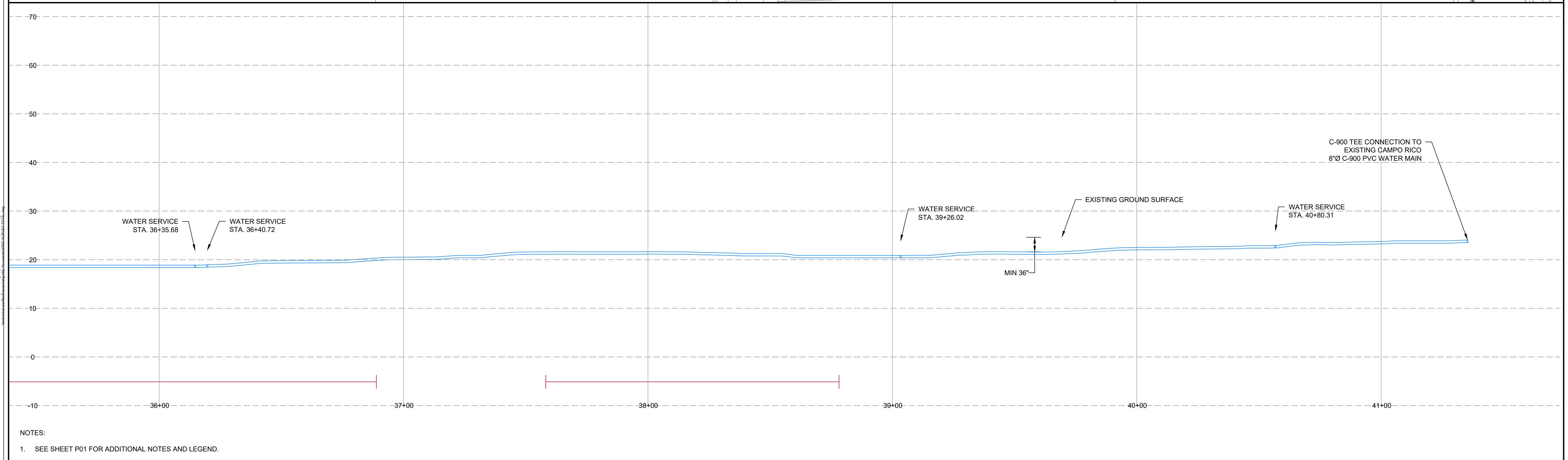
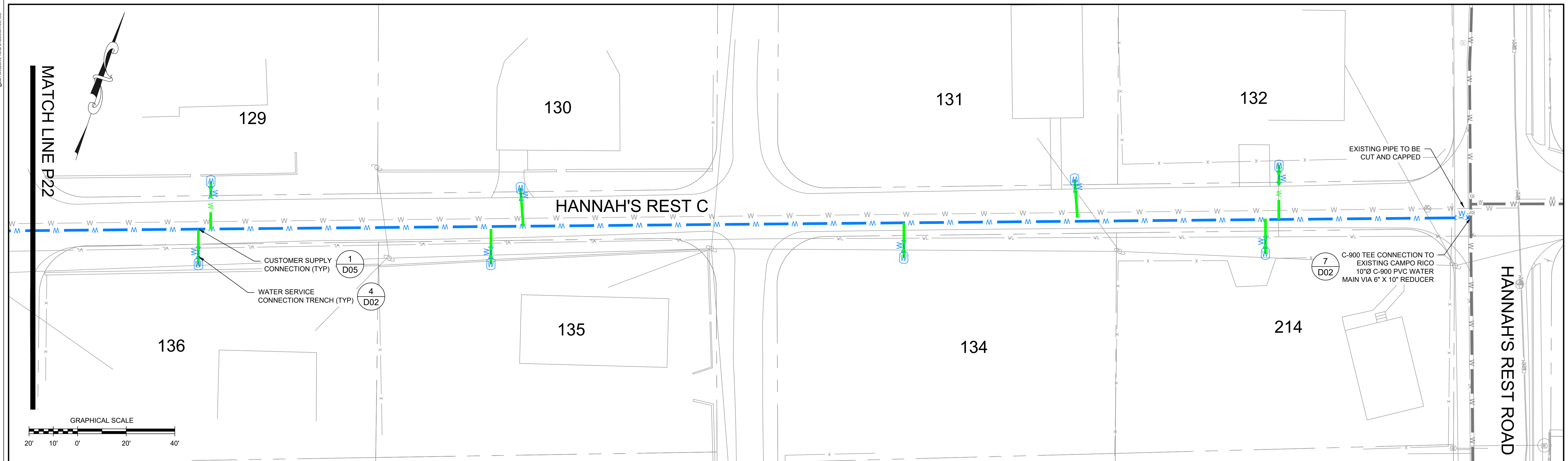
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VPE - Stamp Dated.tif

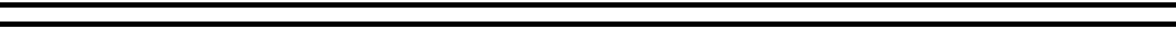


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FILE: \\wolverine\userfiles\$\awawdahgn\My Documents\Hannahs Rest-P00-23.dwg
LAYOUT: 22
PLOT DATE: 12/8/21 2:19PM



				DRAWN BY: D. DOMBROWSKY DESIGNED BY: J. CORSELLO REVIEWED BY: E. DOUGLAS PROJECT MGR: S. SOOS PIC: M. NICOLORO DATE: NOVEMBER 2020		HANNAH'S REST WATERLINE REHABILITATION DESIGN VIRGIN ISLANDS WATER AND POWER AUTHORITY P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS		PROJECT NUMBER: 4348.02
				PLAN AND PROFILE HANNAH'S REST		SHEET NUMBER: P22		



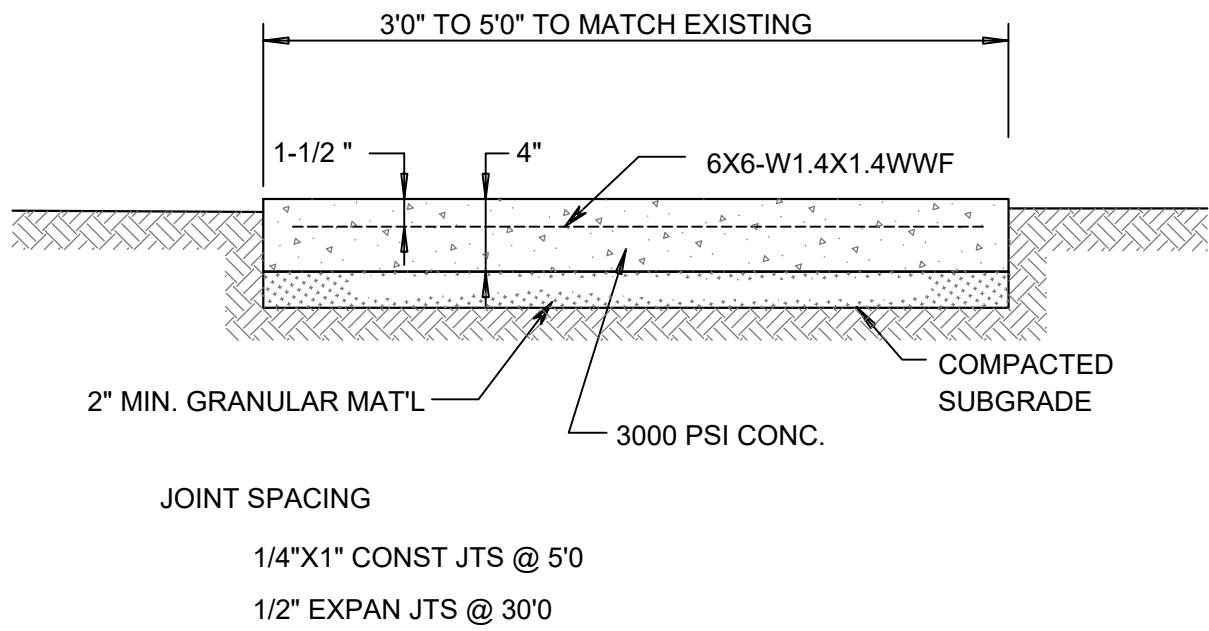
			<div style="font-size: 2em; font-weight: bold;">Stamp Dated.tif</div>			DRAWN BY: D. DOMBROWSKY DESIGNED BY: J. CORSELLO REVIEWED BY: E. DOUGLAS PROJECT MGR: S. SOOS PIC: M. NICOLORO DATE: NOVEMBER 2020	HANNAH'S REST WATERLINE REHABILITATION DESIGN VIRGIN ISLANDS WATER AND POWER AUTHORITY P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS	PROJECT NUMBER: <div style="font-size: 1.2em; font-weight: bold;">4348.02</div>
				<div style="font-size: 1.5em; font-weight: bold;">PLAN AND PROFILE</div> <div style="font-size: 1.5em; font-weight: bold;">HANNAH'S REST</div>	SHEET NUMBER: <div style="font-size: 1.2em; font-weight: bold;">P23</div>			

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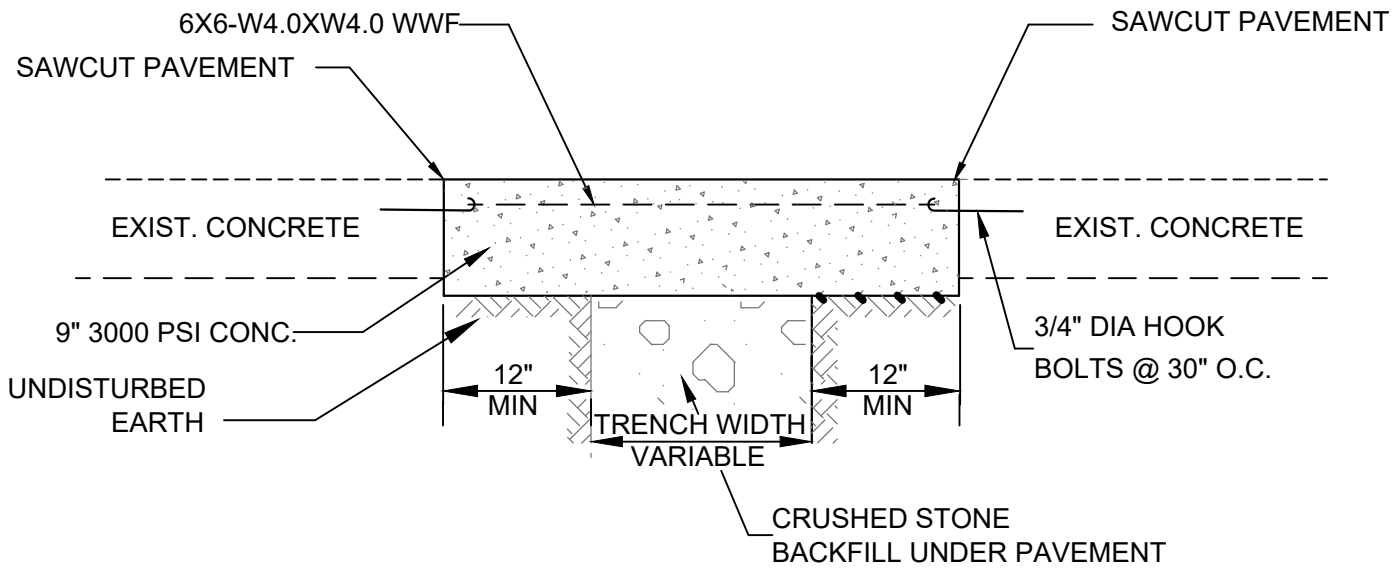
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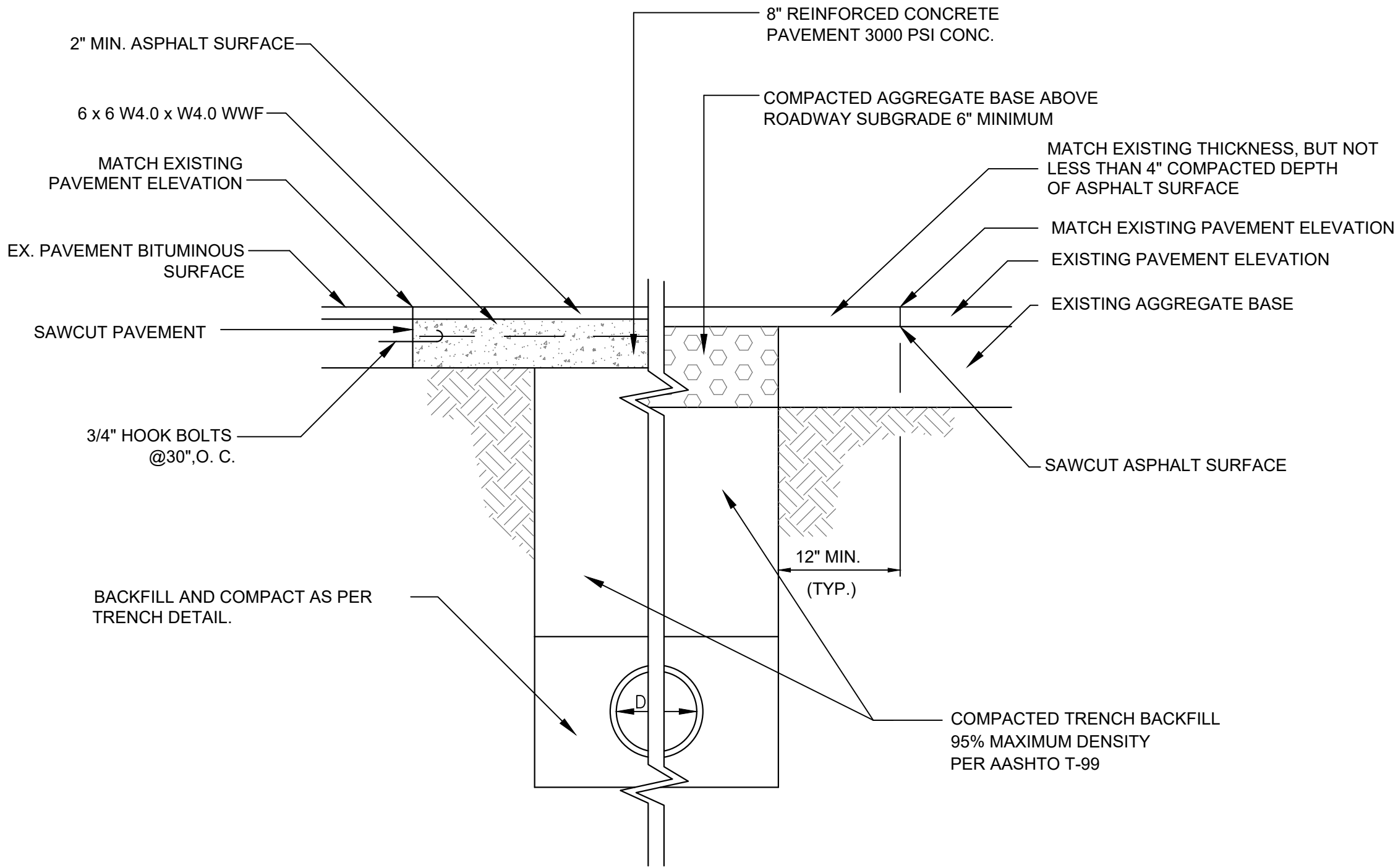
CONCRETE WALK REPLACEMENT

1
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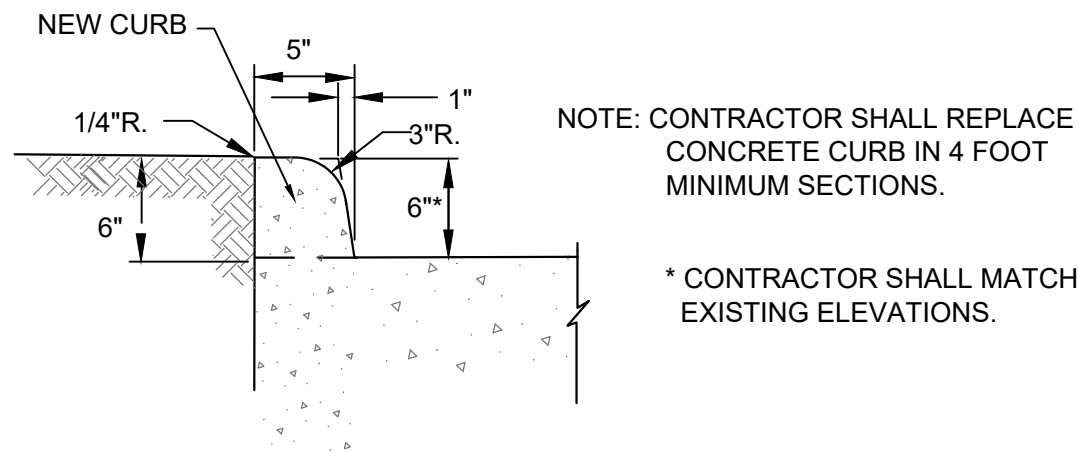
PAVEMENT REPLACEMENT - CONCRETE ROADWAY

2
NOT TO SCALE (IN ACCORDANCE WITH FP-96 REQUIREMENTS)



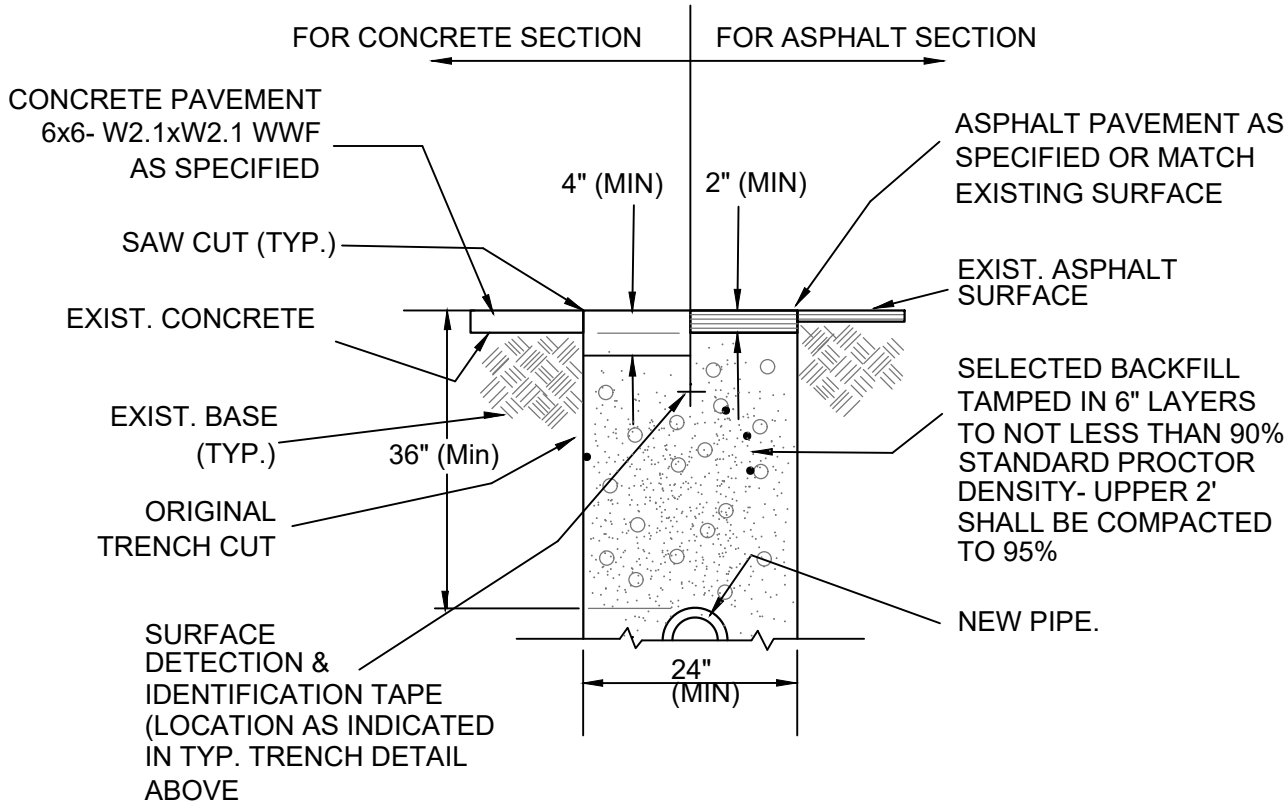
PAVEMENT REPLACEMENT - COMPOSITE OR ASPHALT ROADWAY

3
NOT TO SCALE (IN ACCORDANCE WITH FP-96 REQUIREMENTS)



CONCRETE CURB REPLACEMENT

4
NOT TO SCALE



TYPICAL SIDEWALK PATCH

5
NOT TO SCALE



NOT TO SCALE



NO.	DATE	DESCRIPTION	BY
1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA

DRAWN BY: D. DOMBROWSKY
DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

DETAILS

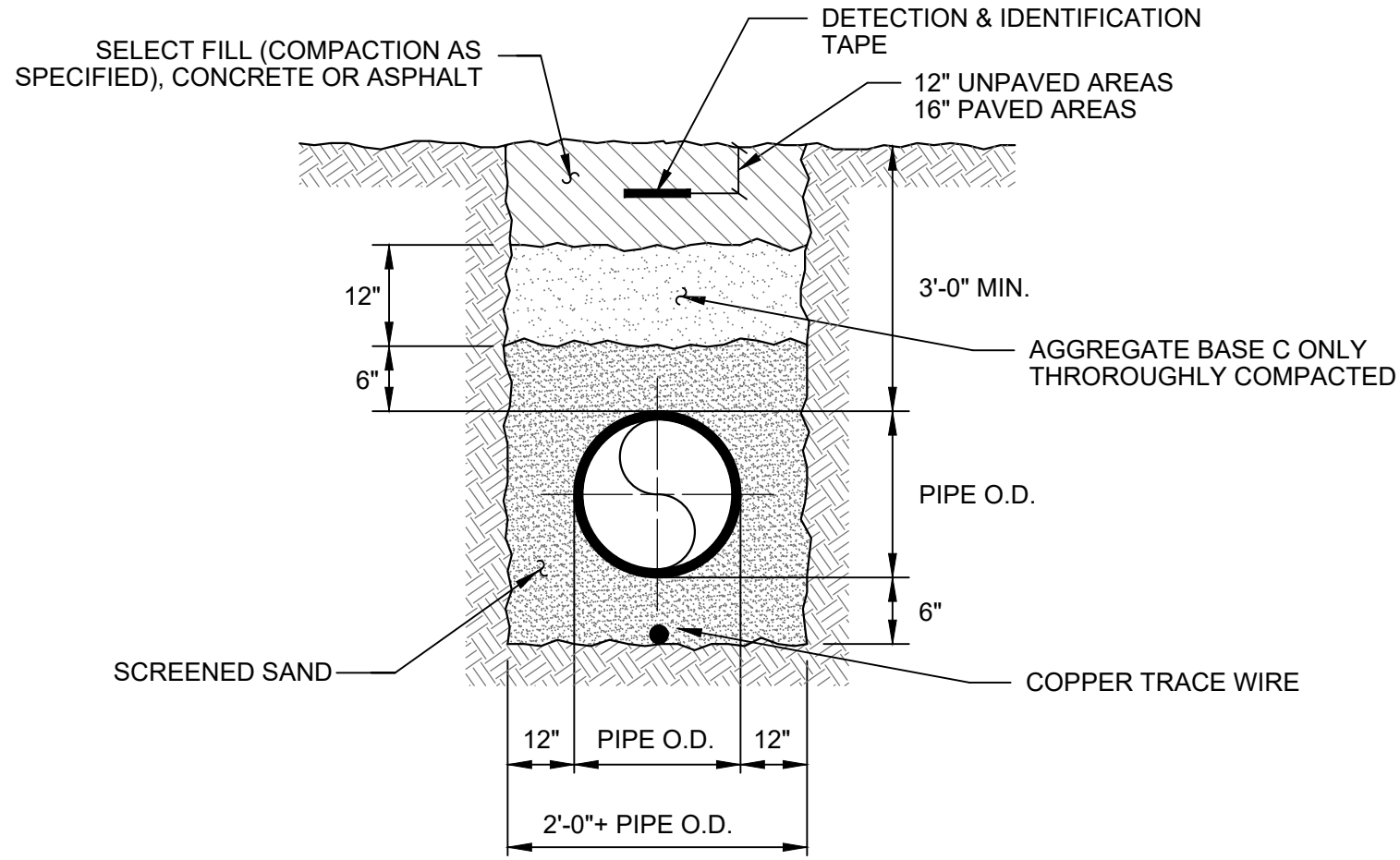
PROJECT NUMBER:
4348.02
SHEET NUMBER:
D01

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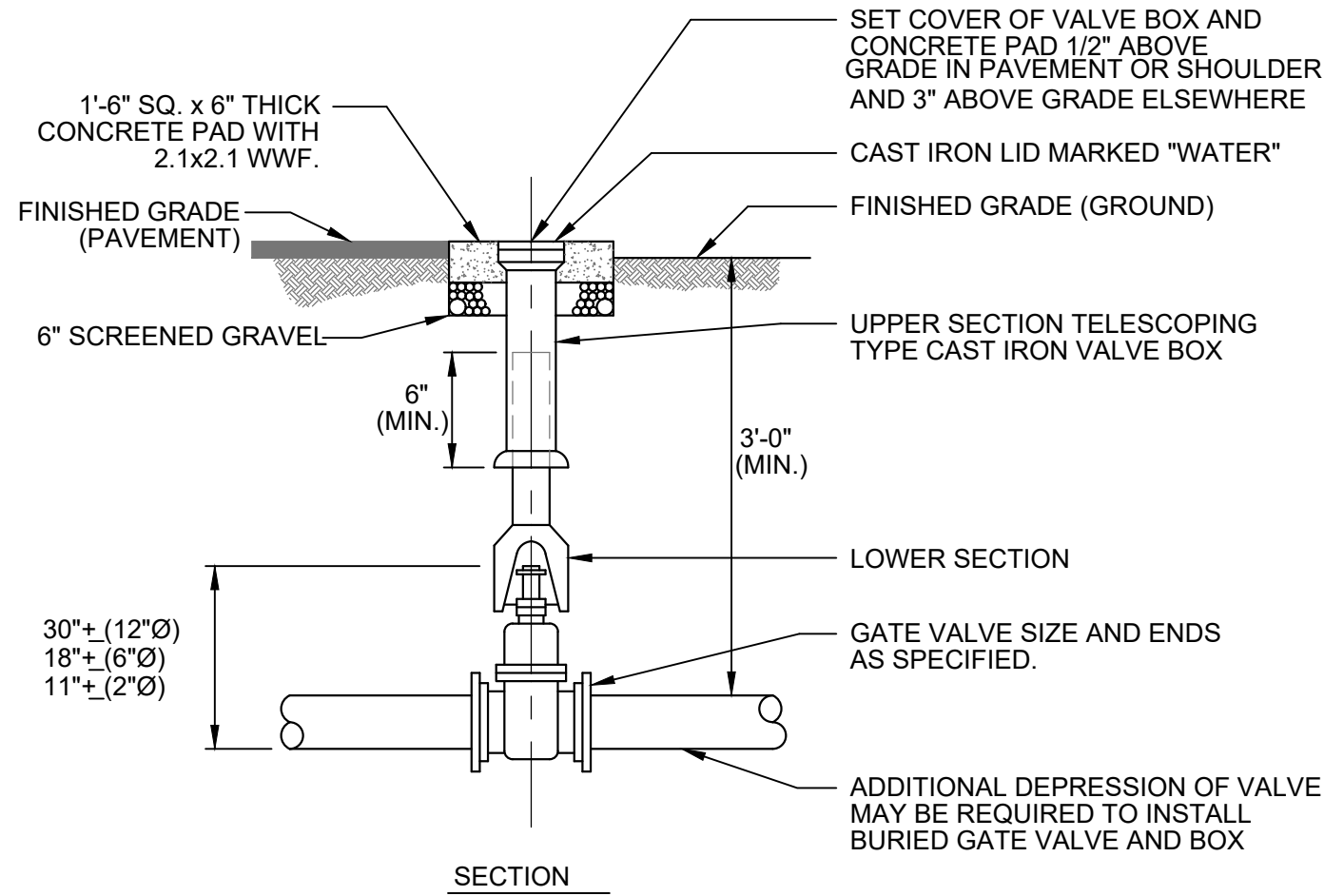
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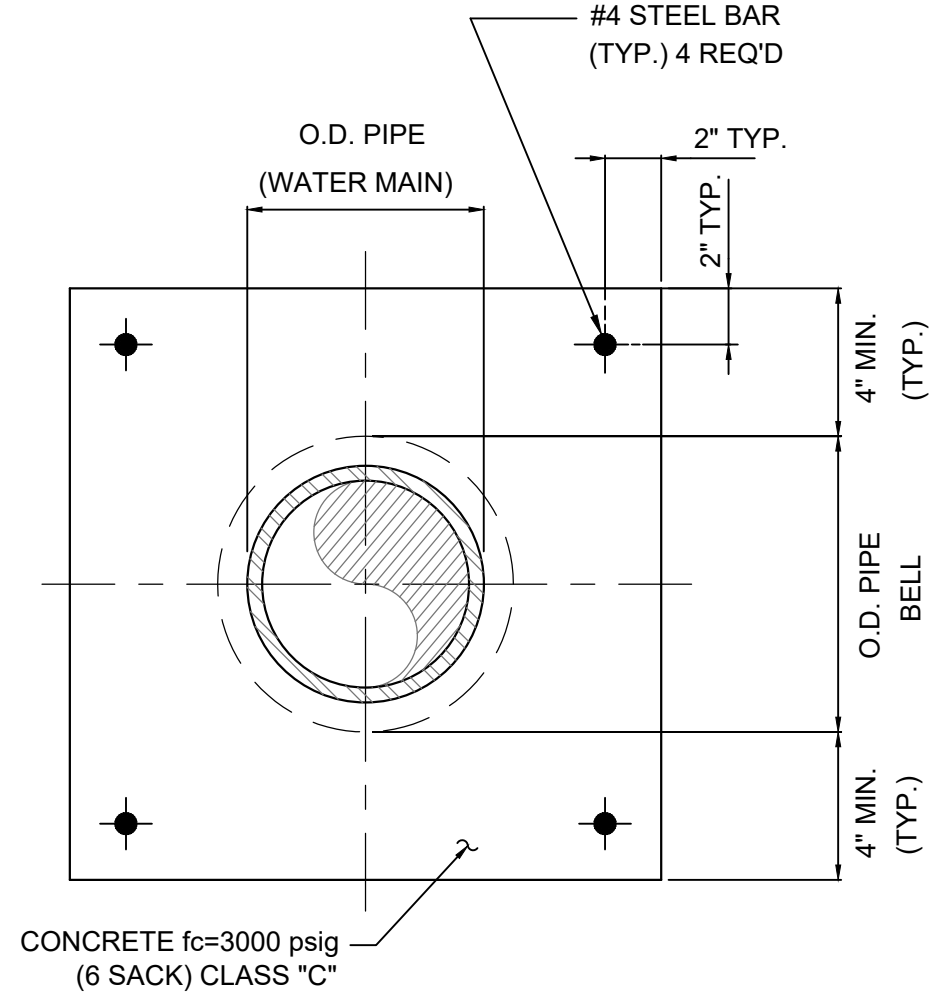
TRENCH DETAILS FOR PVC PIPES

1 NOT TO SCALE



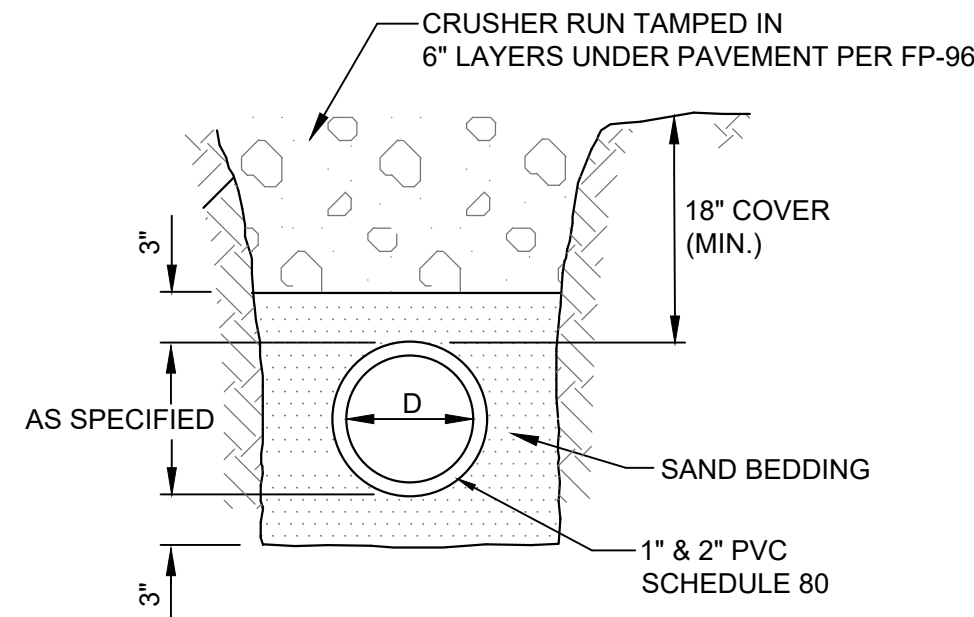
BURIED GATE VALVE & VALVE BOX DETAIL

2 NOT TO SCALE



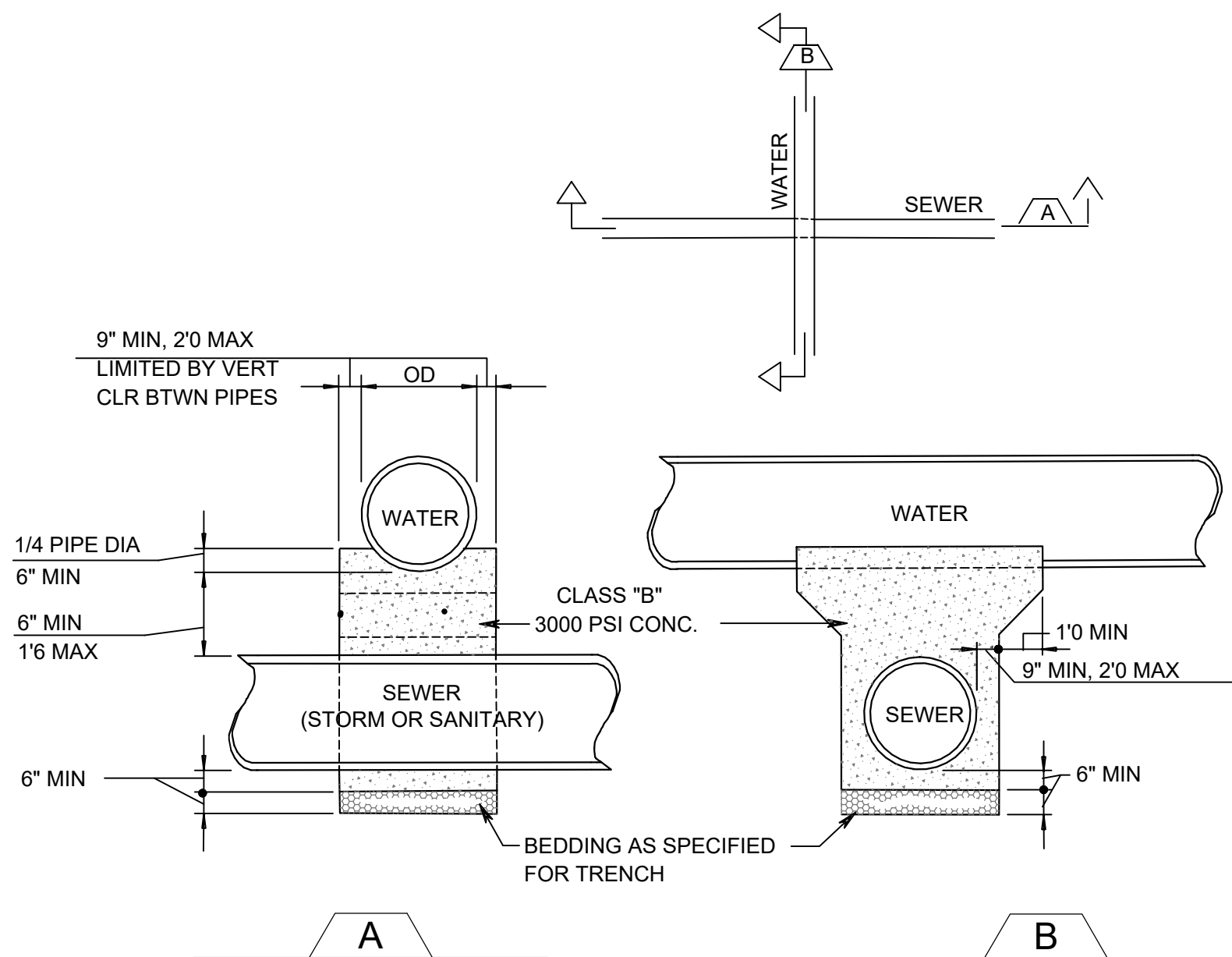
CONCRETE ENCASEMENT

3 NOT TO SCALE



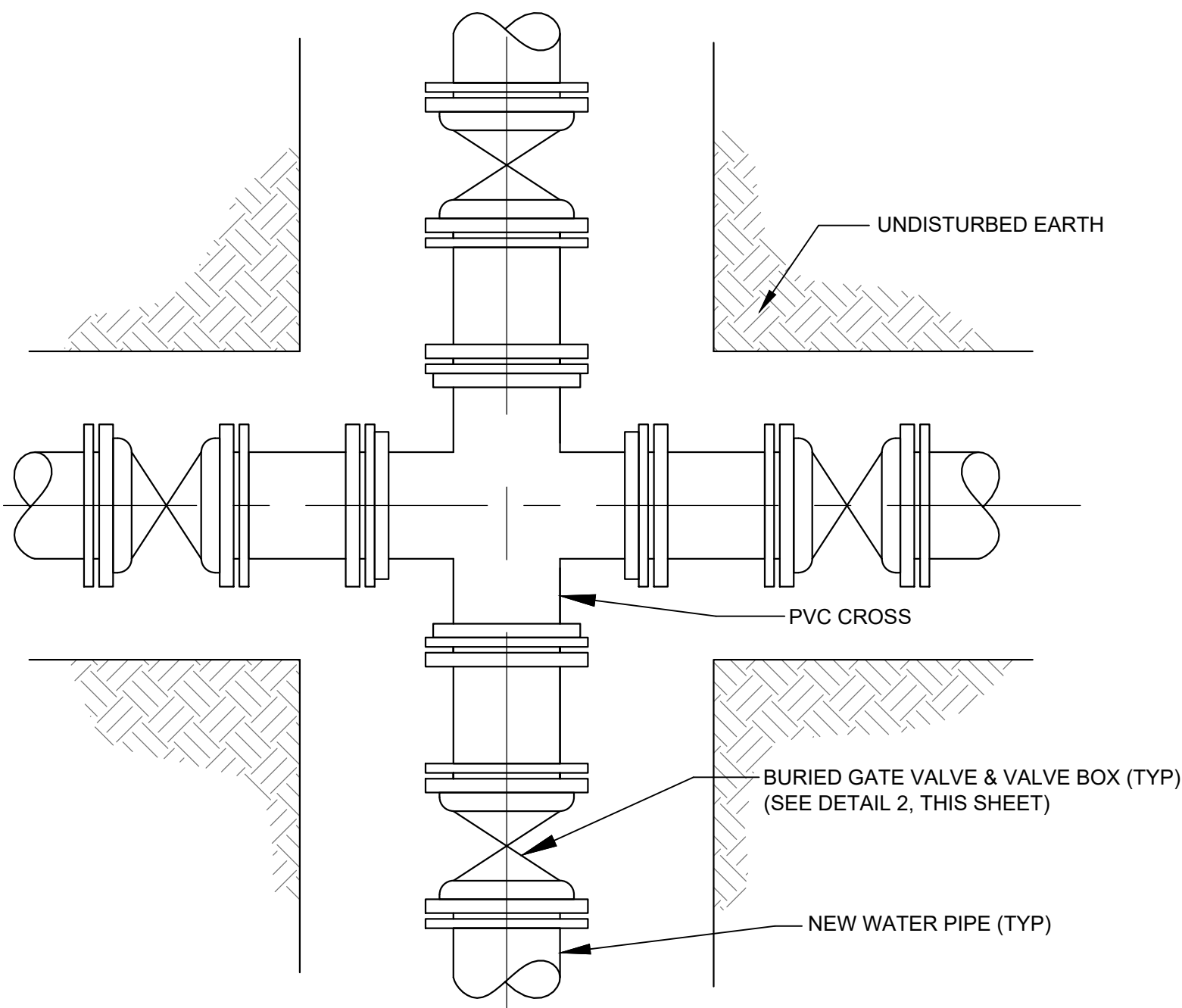
TYPICAL WATER SERVICE CONNECTION TRENCH

4 NOT TO SCALE



CONCRETE ENCASEMENT

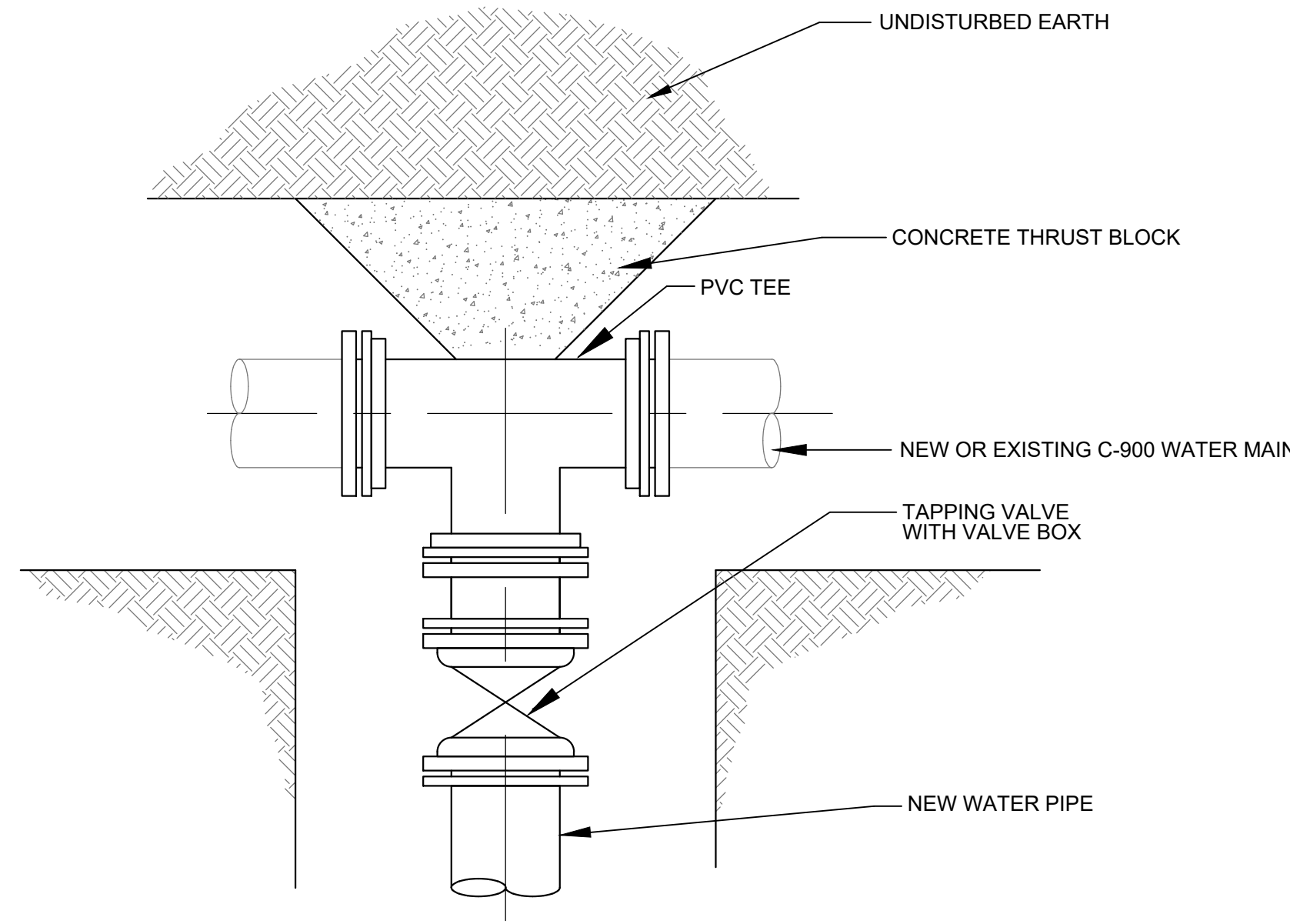
5 NOT TO SCALE



NOTE:
1. AT ALL 90° - 45° USE TRUST BLOCK AND RESTRAINERS

TYPICAL WATER MAIN CONNECTION DETAIL

6 NOT TO SCALE



NOTE:
1. AT ALL 90° - 45° USE TRUST BLOCK AND RESTRAINERS

C-900 TEE CONNECTION DETAIL (PLAN)

7 NOT TO SCALE

SANBORN HEAD

NOT TO SCALE

Caritech
Group LLC

Stamp Dated.tif

DRAWN BY: D. DOMBROWSKY
DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

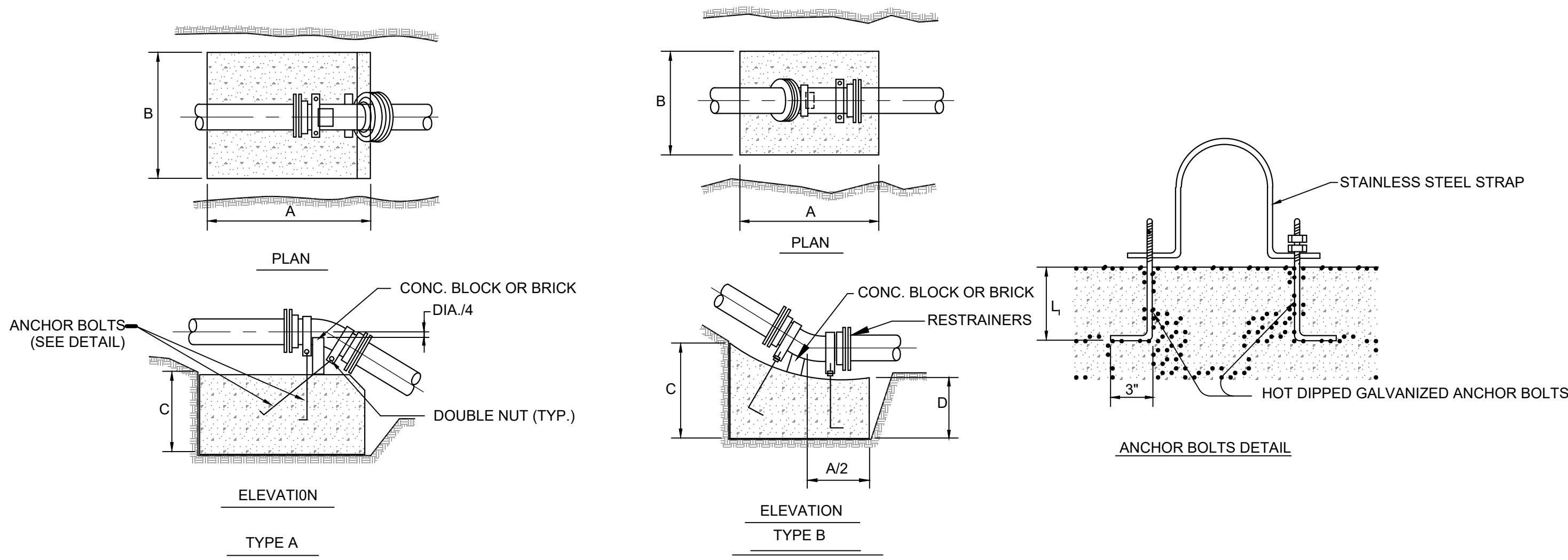
HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

DETAILS

PROJECT NUMBER:
4348.02
SHEET NUMBER:
D02

NOT TO SCALE (FOR CUSTOMER SERVICE LINES)

PROJECT NUMBER: 4348.02
SHEET NUMBER: D03



VERTICAL BENDS

TYPE	PIPE SIZE	TYPE A			TYPE B				STRAPS	ANCH. BOLT SIZE (DIA.)	L ₁
		A	B	C	A	B	C	D			
2000 P.S.F. SOIL	6"	38"	32"	27"	27"	27"	27"	16"	(1) 1/4"x 1 1/8"	5/8"	1'-0"
	8"	44"	38"	27"	30"	30"	30"	18"	" "	"	"
	10"	50"	44"	34"	37"	37"	33"	18"	(2) 1/4"x 1 1/4"	5/8"	1'-0"
	12"	57"	51"	40"	41"	41"	40"	21"	" "	"	"
	14"	57"	51"	67"	47"	47"	47"	24"	(2) 3/8"x 1 1/2"	3/4"	1'-0"
	16"	64"	57"	67"	54"	54"	49"	24"	" "	"	"
	20"	78"	63"	80"	64"	64"	64"	30"	(2) 1/2"x 1 3/4"	7/8"	2'-0"
	24"	93"	75"	83"	78"	78"	78"	36"	(2) 1/2"x 2 1/2"	1"	2'-0"

NOTE

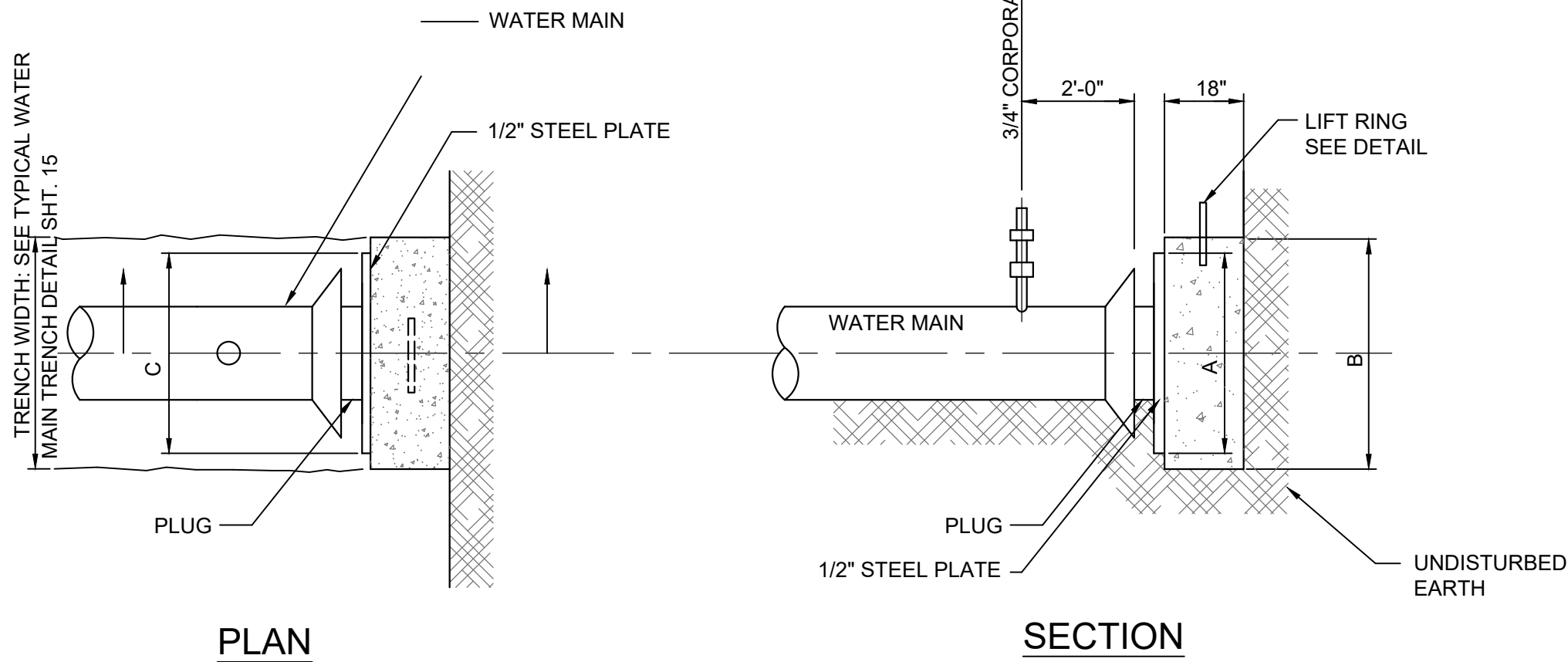
1. BASED ON 150 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER.
2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
3. ALL STRAPS, BOLTS AND ANCHORS SHALL BE MADE OF GALVANIZED STEEL AND SHALL CONFORM TO ASTM 123 AND 153
4. ALL JOINTS SHALL BE ENCASED IN CONCRETE AFTER THE CONSTRUCTION OF THE THRUST BLOCK.

*6" OR LESS

CONCRETE THRUST BLOCK DETAILS - VERTICAL

1
NOT TO SCALE

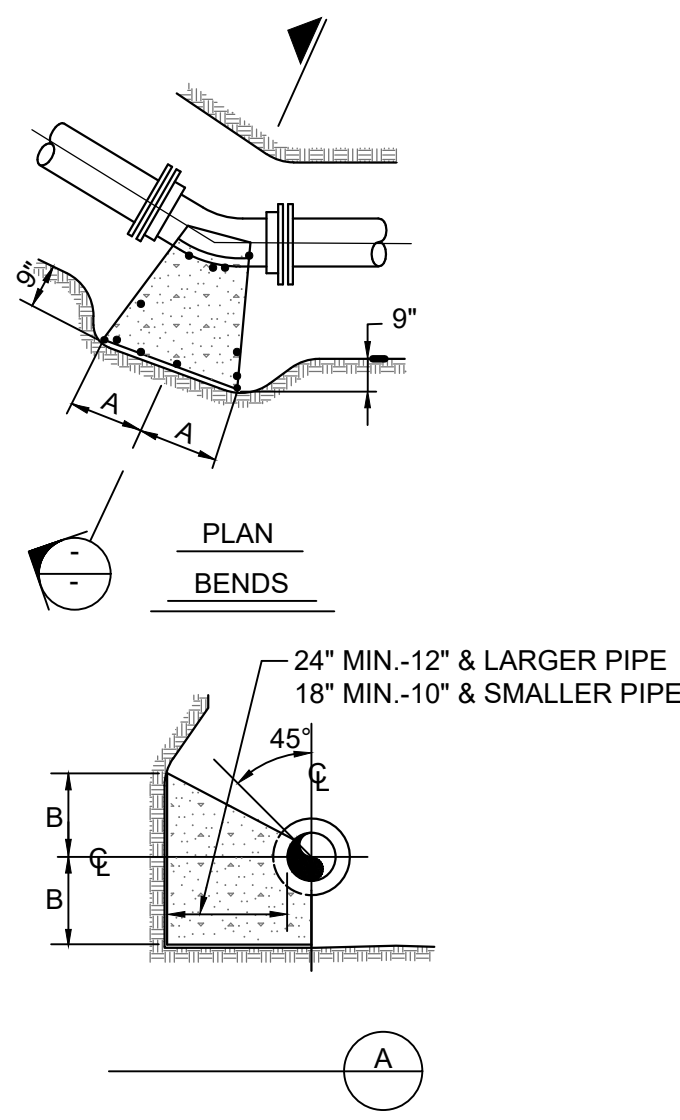
SIZE	A	B	C
3"	0'-8"	0'-8"	1'-3"
4"	0'-10"	0'-10"	1'-4"
6"	1'-0"	1'-0"	1'-6"
8"	1'-2"	1'-2"	1'-8"
10"	1'-4"	1'-6"	1'-10'
12"	1'-6"	2'-0"	2'-0"



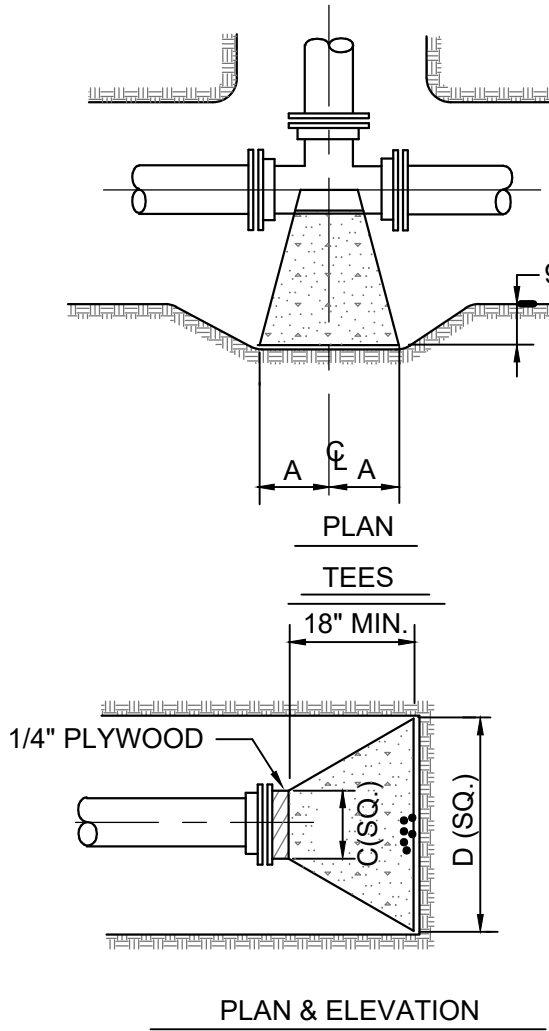
TEMPORARY CONCRETE THRUST BLOCKS

3
NOT TO SCALE

BENDS & TEES



PLUGS



TYPE	PIPE SIZE	90° BENDS		45° BENDS		22-1/2° & 11-1/4° BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
2000 P.S.F. SOIL	6" *	18"	11"	10"	11"	6"	9"	11"	13"	10"	24"
	8"	25"	14"	14"	14"	9"	11"	15"	17"	12"	32"
	10"	27"	20"	16"	19"	10"	15"	18"	22"	14"	40"
	12"	33"	23"	18"	23"	12"	18"	21"	26"	16"	47"
	14"	39"	26"	22"	26"	13"	22"	24"	30"	18"	54"
	16"	43"	30"	24"	30"	14"	26"	28"	33"	20"	61"
	20"	50"	39"	27"	39"	17"	32"	33"	42"	24"	74"
	24"	60"	45"	33"	45"	20"	38"	40"	49"	28"	88"

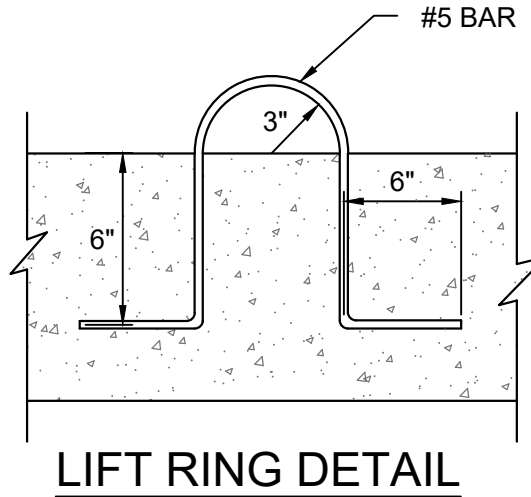
NOTE

- BASED ON 150 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER.
ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

*6" OR LESS

CONCRETE THRUST BLOCK DETAILS - HORIZONTAL

2
NOT TO SCALE



SANBORN HEAD

NOT TO SCALE



Stamp Dated.tif

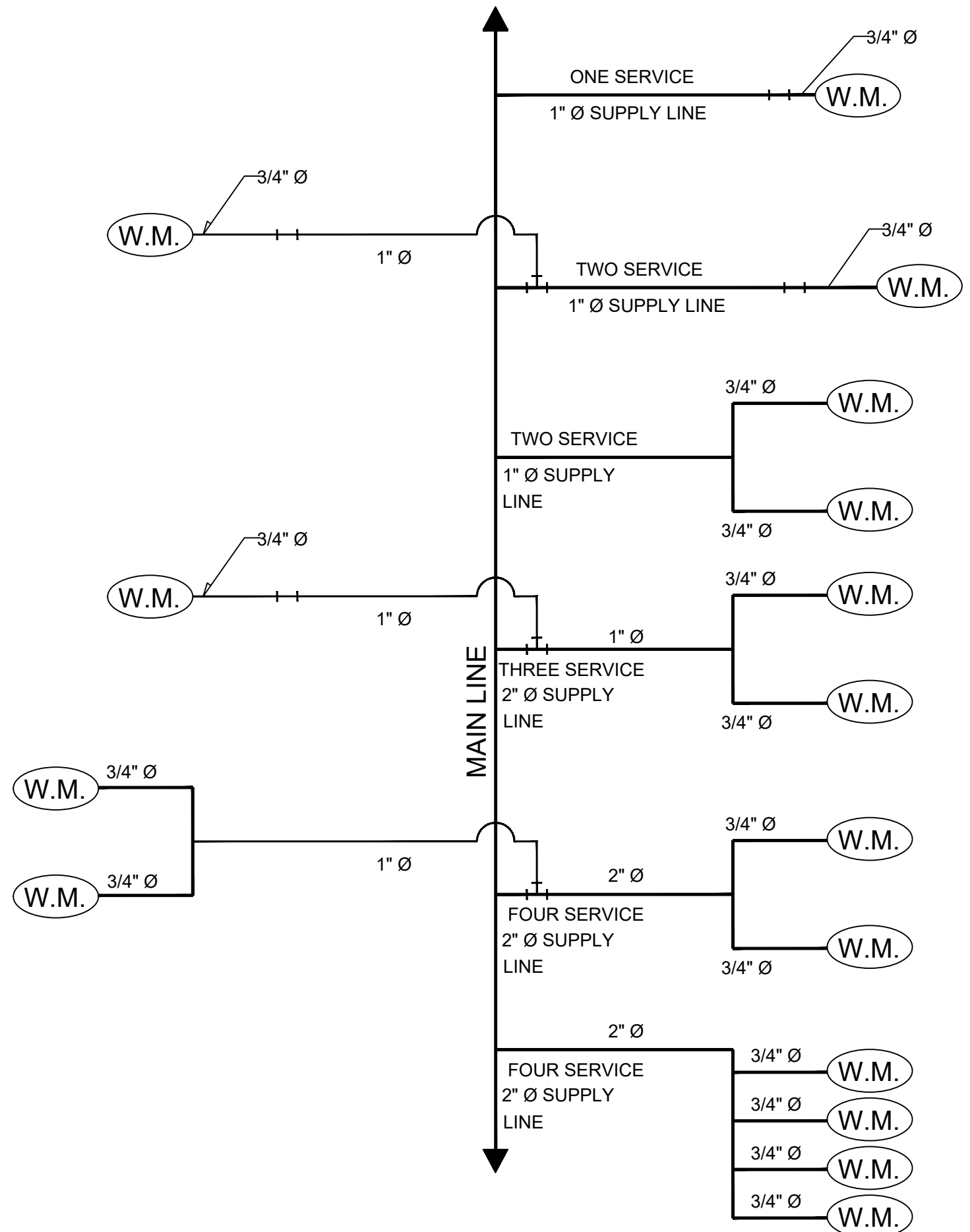
DRAWN BY: D. DOMBROWSKY
DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PROJECT NUMBER:
4348.02
SHEET NUMBER:
D04

DETAILS

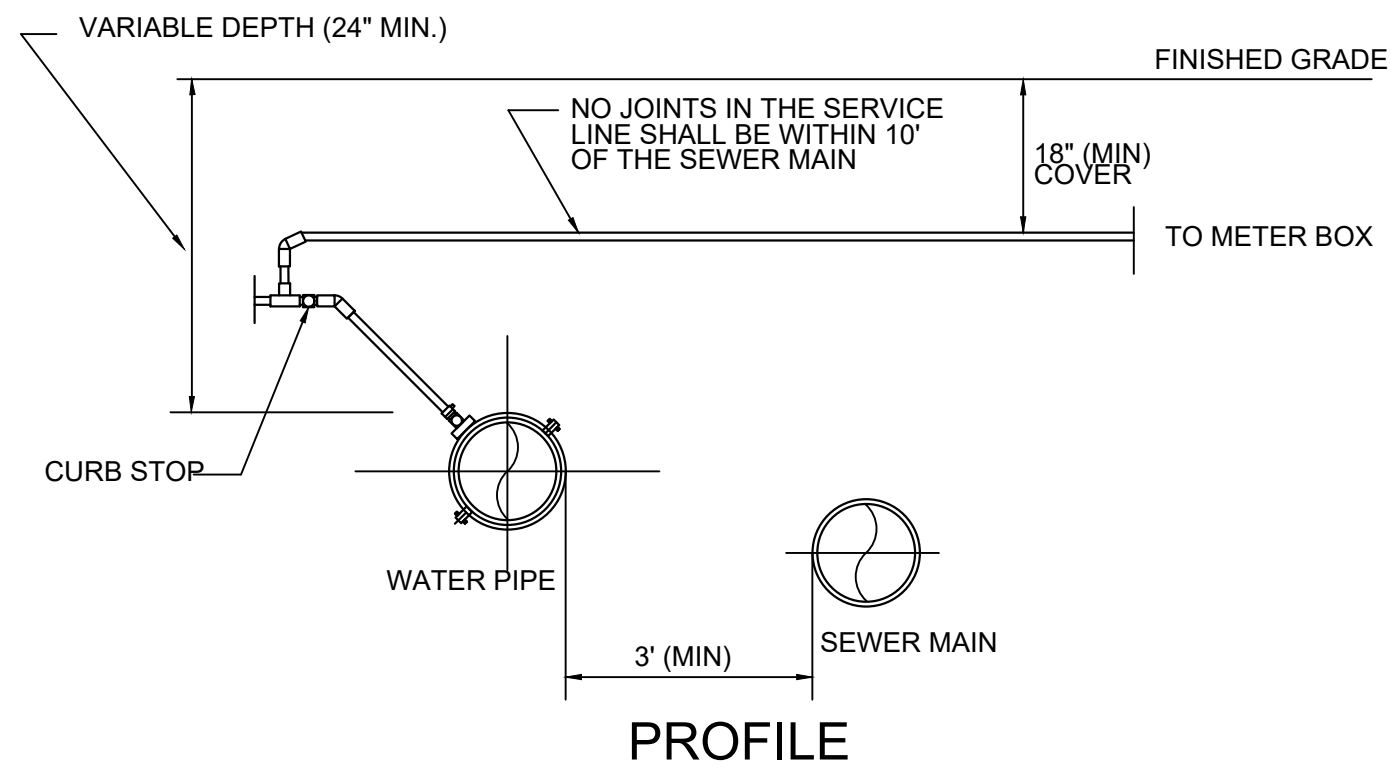
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NAME: Caritech Group
PLOT DATE: 12/8/21 2:32 PM



TYPICAL CUSTOMER SUPPLY CONNECTIONS

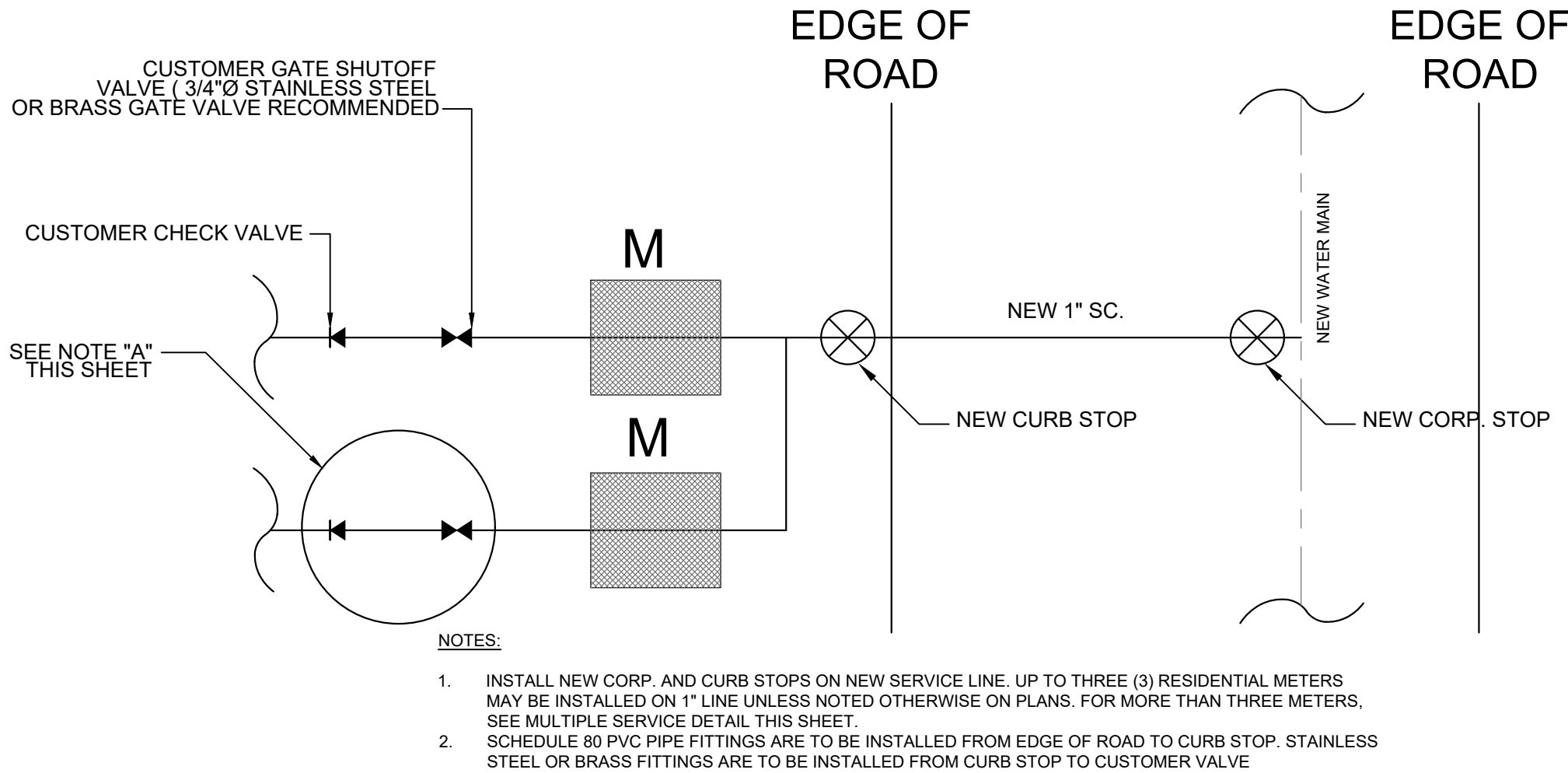
1 NOT TO SCALE

NOTE:
REFER TO DETAIL 2 THROUGH 5 FOR TYPICAL WATER SERVICE LINE CONNECTIONS.



TYPICAL SERVICE LINE OVER/UNDER SEWER MAIN

4 NOT TO SCALE



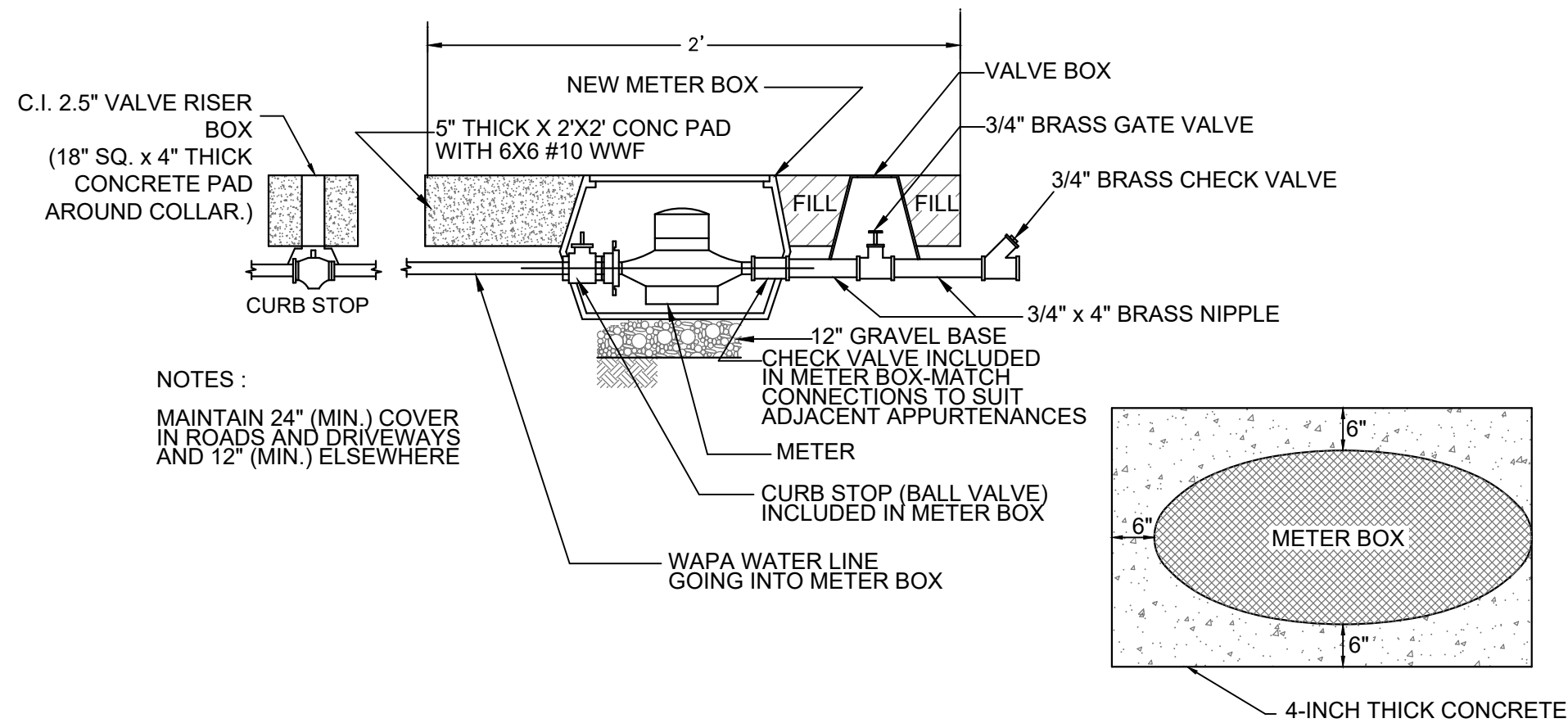
SERVICE CONNECTION DETAIL TYPE A - NEW SERVICE

2 NOT TO SCALE

NOTE "A"
THE CONTRACTOR SHALL MAKE CONNECTION TO CUSTOMER LINE. CONTRACTOR SHALL INSTALL CHECK, GATE VALVE AND BRASS FITTINGS TO CUSTOMER LINES

- THE CUSTOMER LINE SHALL BE 10" MINIMUM BELOW GRADE.
- THE CUSTOMER VALVE SHALL BE WITHIN 12", AND INSIDE THE PROPERTY LINE.
- WHERE CUSTOMER LINE DOES NOT EXIST, CONTRACTOR SHALL 4 PLUG METER BOX

THOSE SERVICE CONNECTIONS THAT DO NOT FALL WITHIN THE ABOVE CRITERIA SHALL BE REFERRED TO THE ENGINEER FOR RESOLUTION.

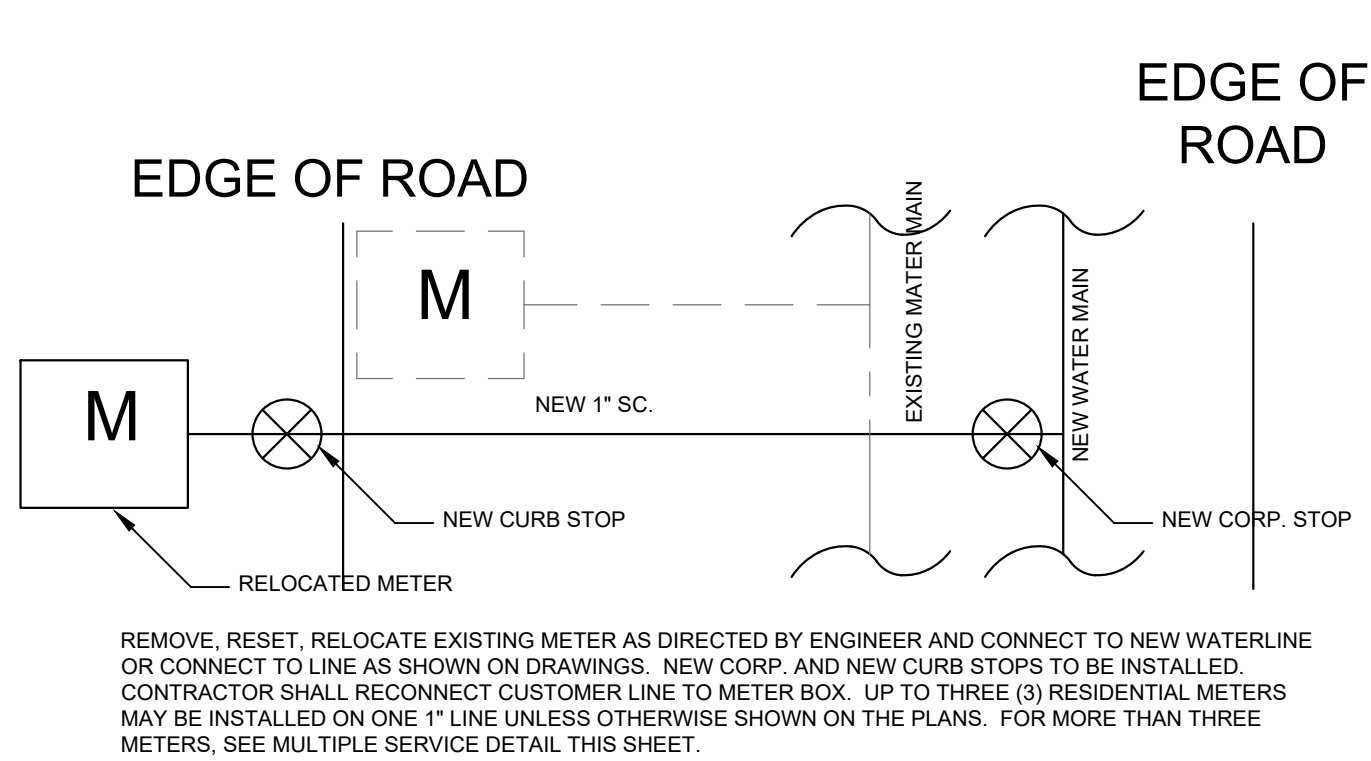


SECTION

PLAN

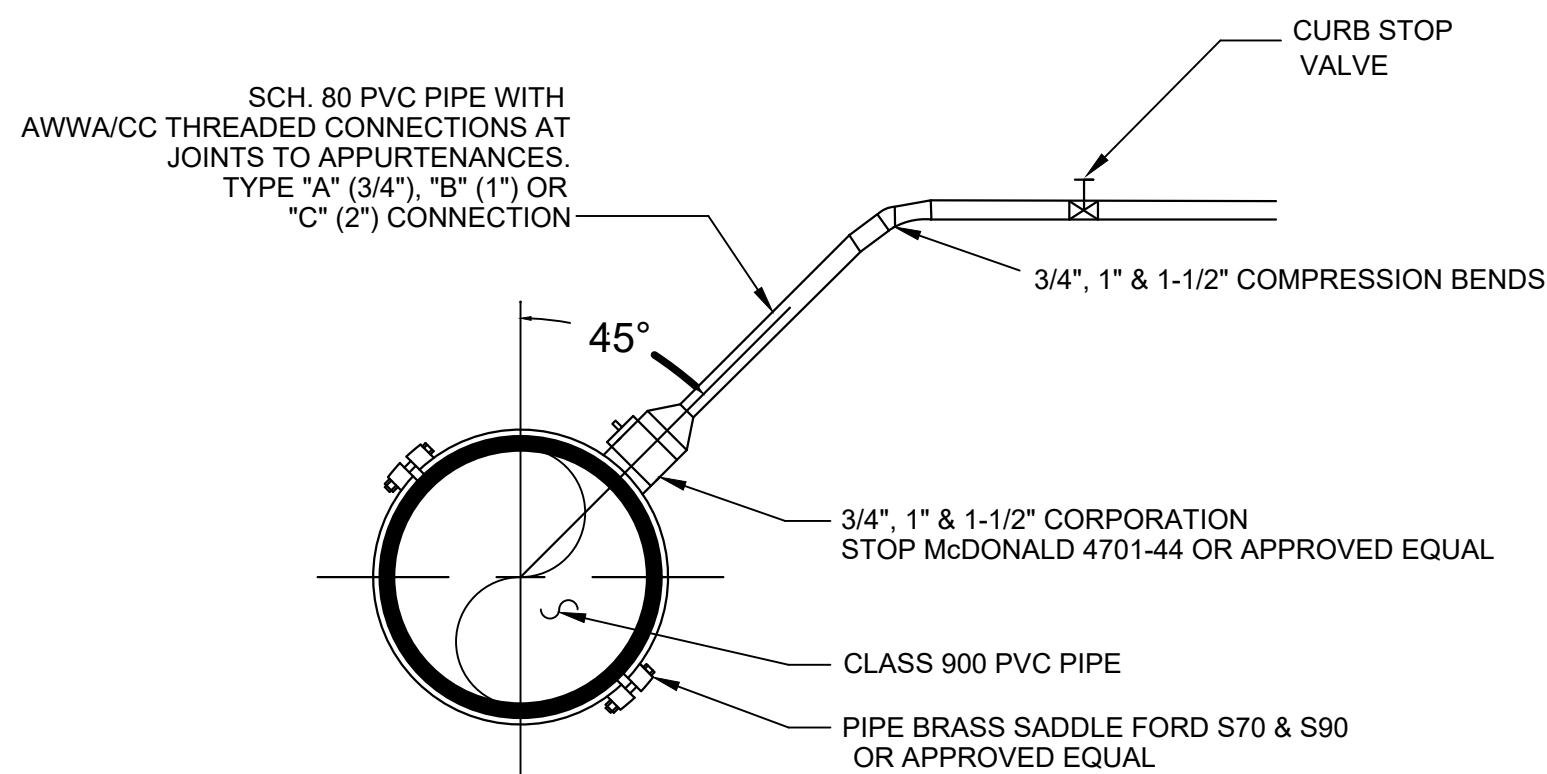
WATER LINE CONNECTION DETAILS

5 NOT TO SCALE

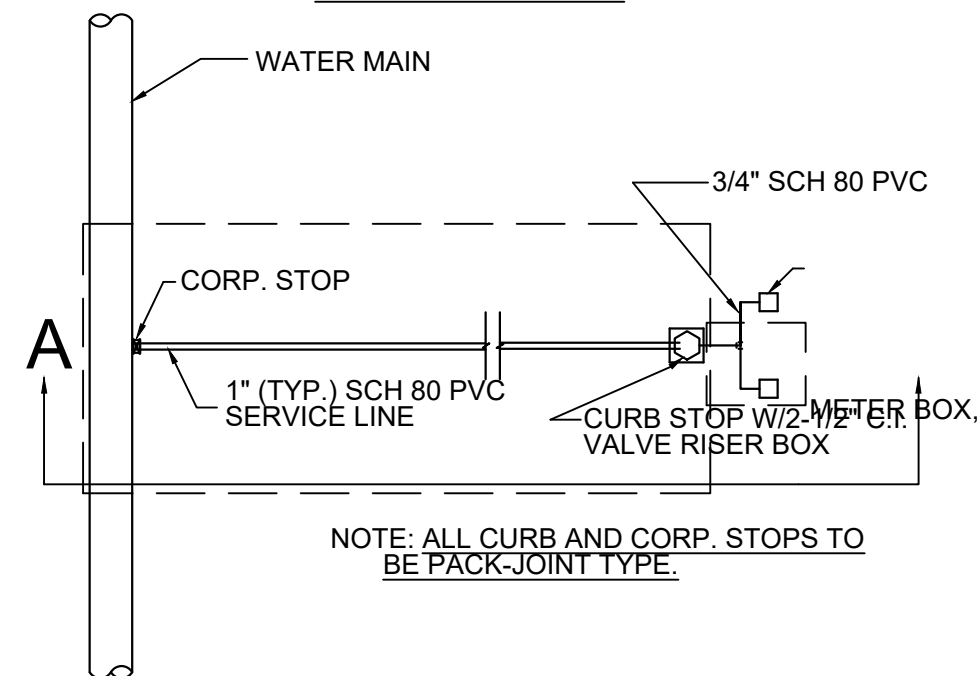


SERVICE CONNECTION DETAIL TYPE C - EXISTING SERVICE

3 NOT TO SCALE



SECTION A



NOTE: 1. FOR 2" SERVICE LINES, END LINE AT 2" CURB STOP WITH 5 1/2" VALVE RISER BOX (FIG. 4905, B&T INDUSTRIES, OR APPROVED EQUAL). FOR LINES LARGER THAN 2", END LINE AT GATE VALVE.

2. ALSO REFER TO SERVICE CONNECTION DETAIL TYPE 'A'

TYPICAL SERVICE CONNECTION

6 NOT TO SCALE

SANBORN HEAD

NOT TO SCALE



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1	11/20/2020	ISSUED FOR CONSTRUCTION	SHA	
NO.	DATE	DESCRIPTION	BY	

DRAWN BY: D. DOMBROWSKY
DESIGNED BY: J. CORSELLO
REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
PIC: M. NICOLORO
DATE: NOVEMBER 2020

HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

DETAILS

PROJECT NUMBER:
4348.02
SHEET NUMBER:
D05

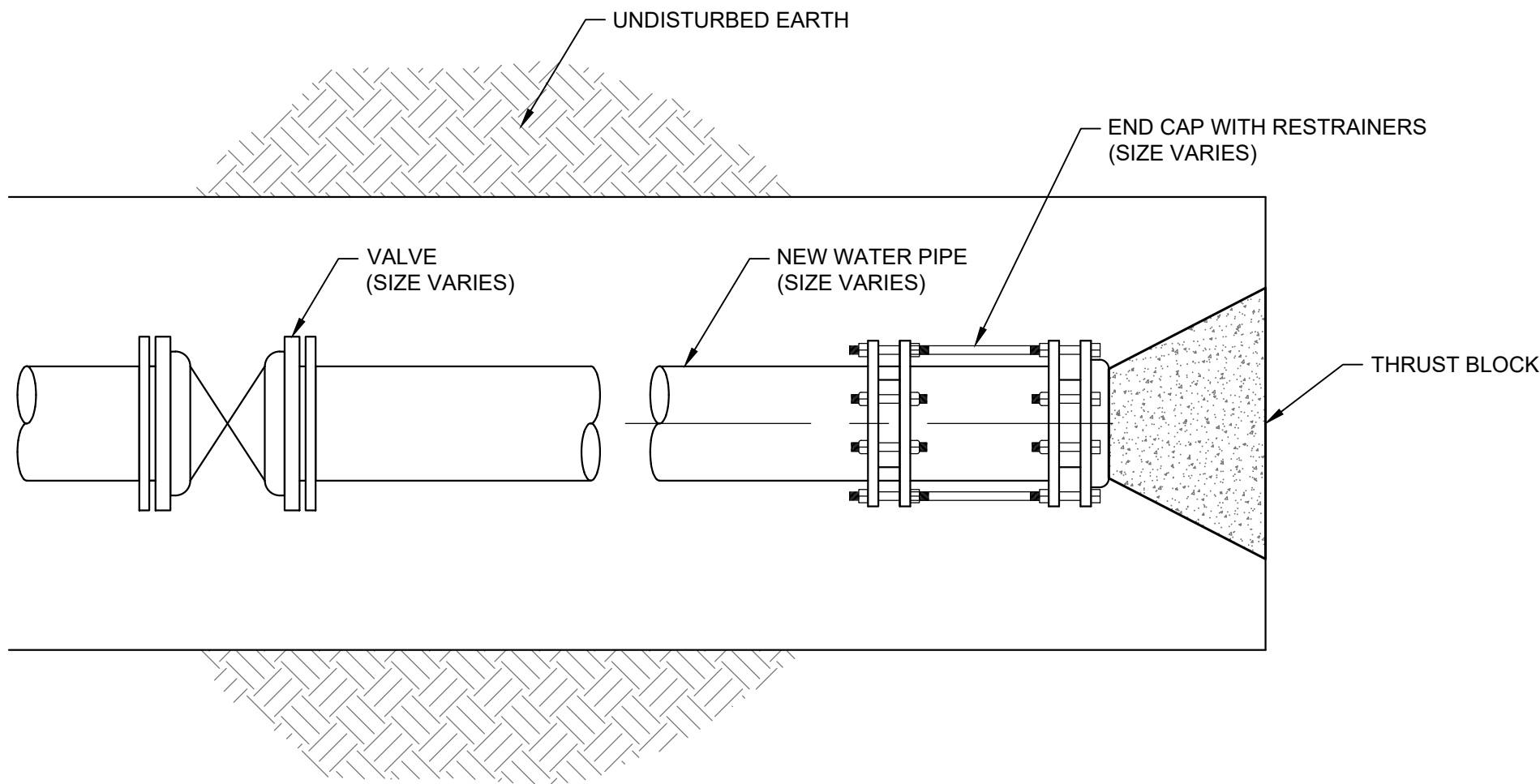
SHEET NUMBER:
D06

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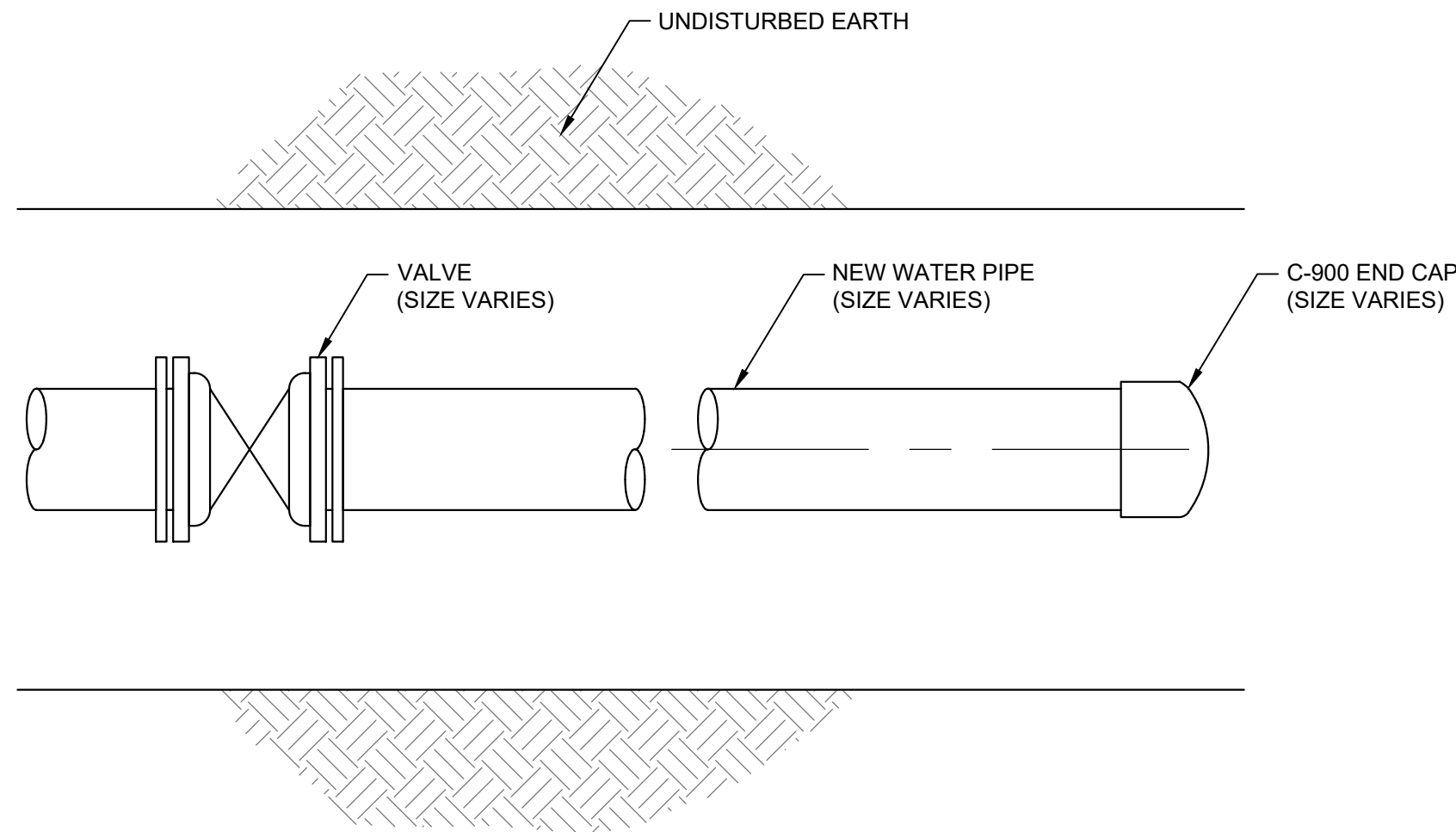
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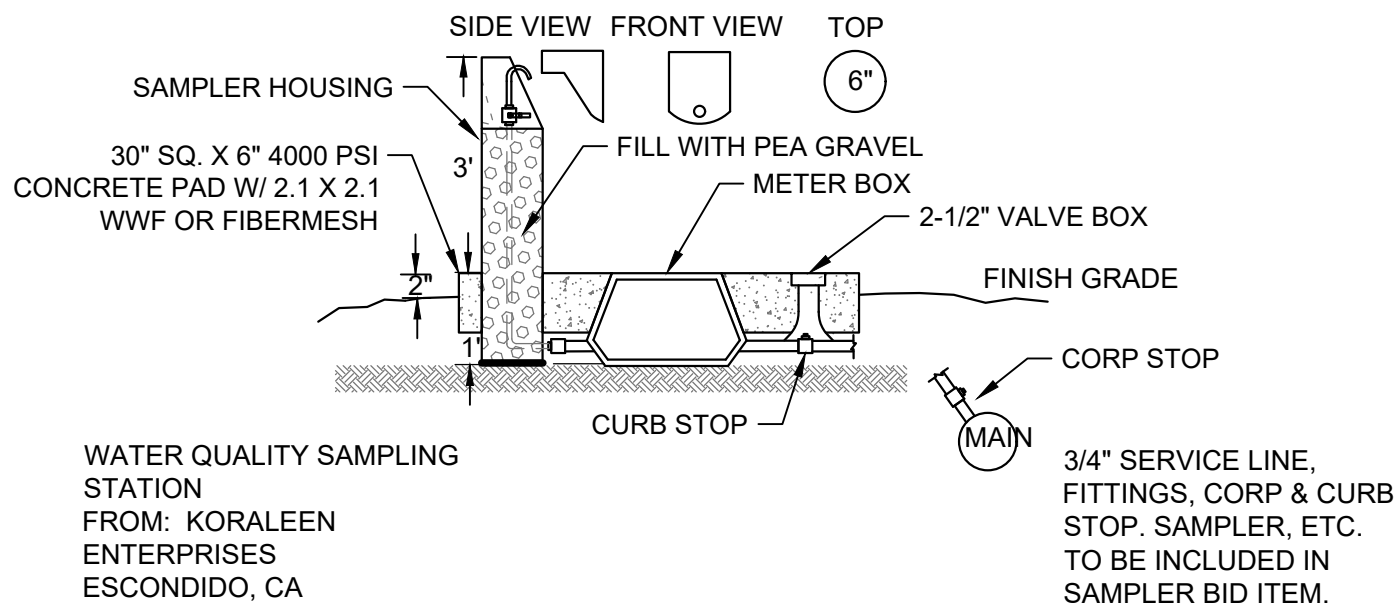
MAIN LINE END CAP WITH RESTRAINERS AND THRUST BLOCK

1 NOT TO SCALE (FOR LINES 4" AND LARGER)



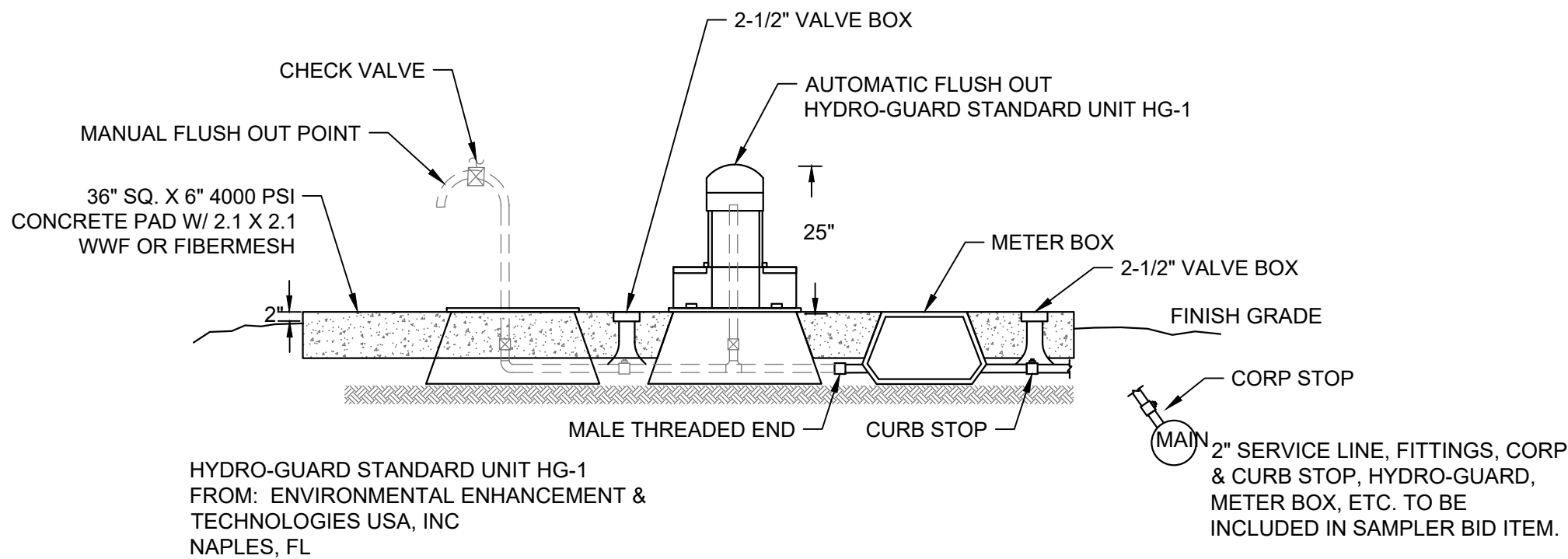
SERVICE LINE END CAP

2 NOT TO SCALE (FOR LINES SMALLER THAN 4")



SAMPLE STATION

3 NOT TO SCALE



AUTOMATIC FLUSHOUT

4 NOT TO SCALE

SANBORN HEAD

NOT TO SCALE



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REVIEWED BY: E. DOUGLAS
PROJECT MGR: S. SOOS
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DATE: NOVEMBER 2020

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P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

DETAILS

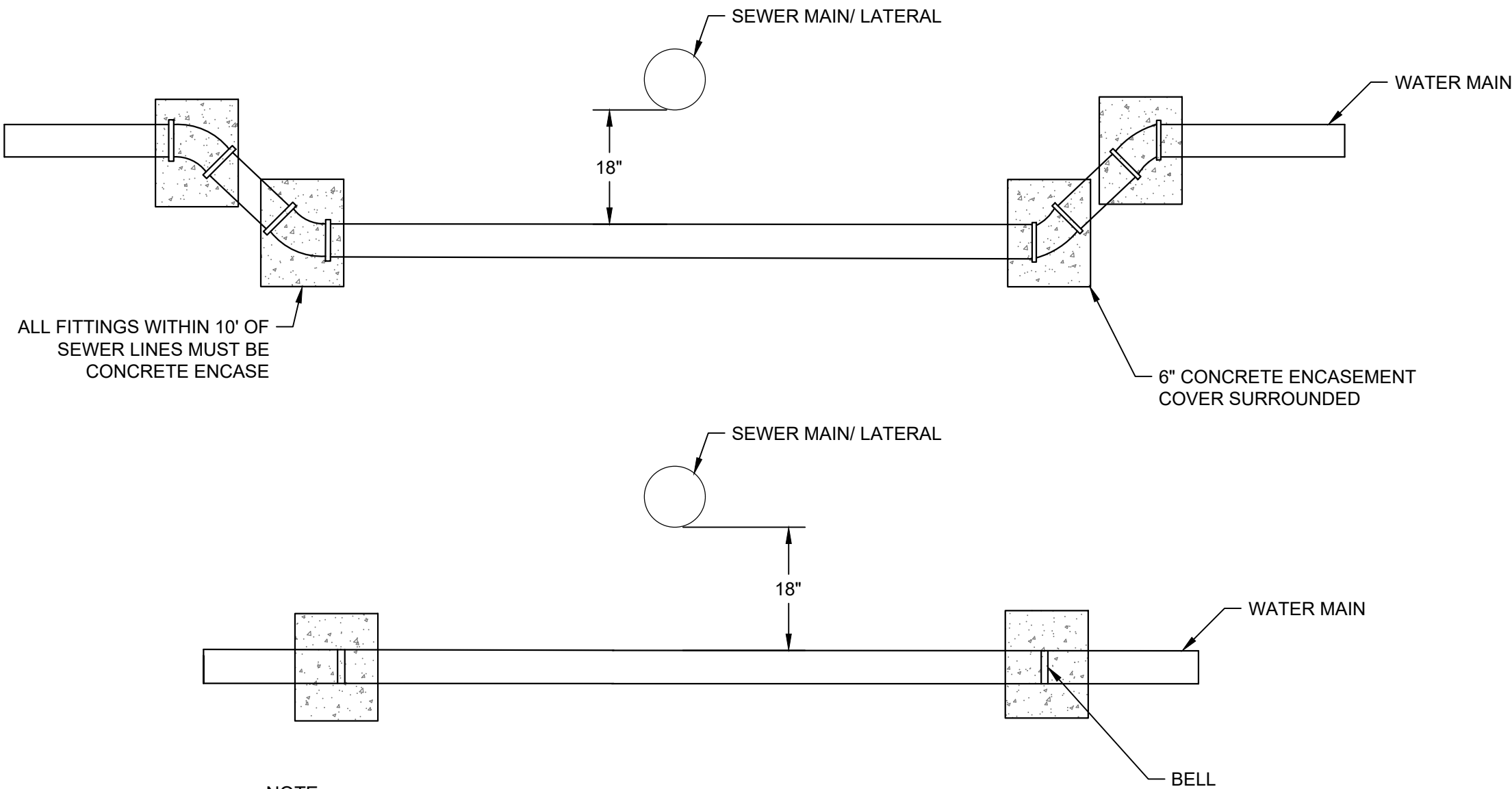
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SHEET NUMBER:
D07

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LAYOUT: D01
PLOT DATE: 12/8/21 2:32 PM

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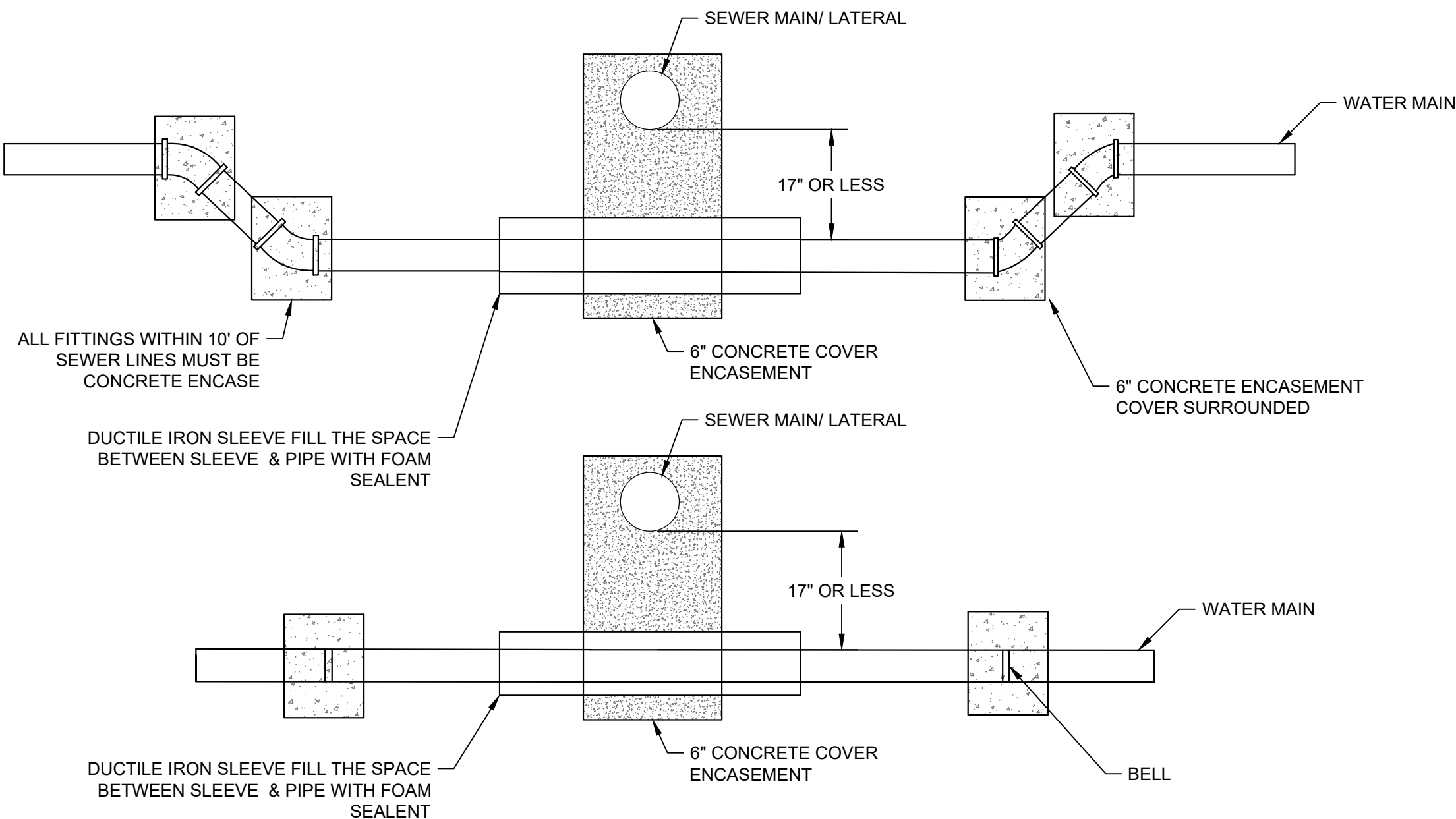
NOTE:

1. 6" CONCRETE ENCASEMENT ON THE TWO NEAREST BELLS

SEWER MAIN/LATERAL CROSSING (UNDER)

1

NOT TO SCALE



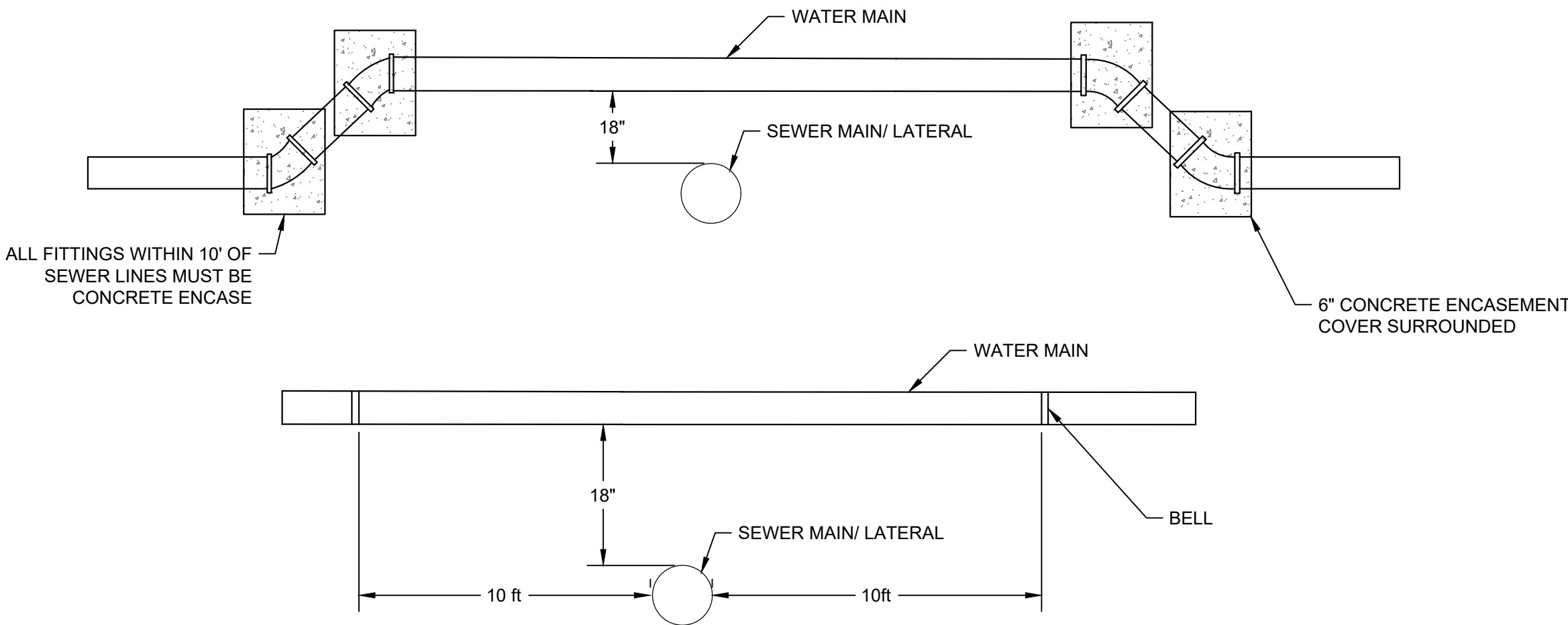
NOTE:

1. 6" CONCRETE ENCASEMENT ON THE TWO NEAREST BELLS

SEWER MAIN/LATERAL CROSSING (UNDER) WITH LESS THAN 18" CLEARANCE

2

NOT TO SCALE



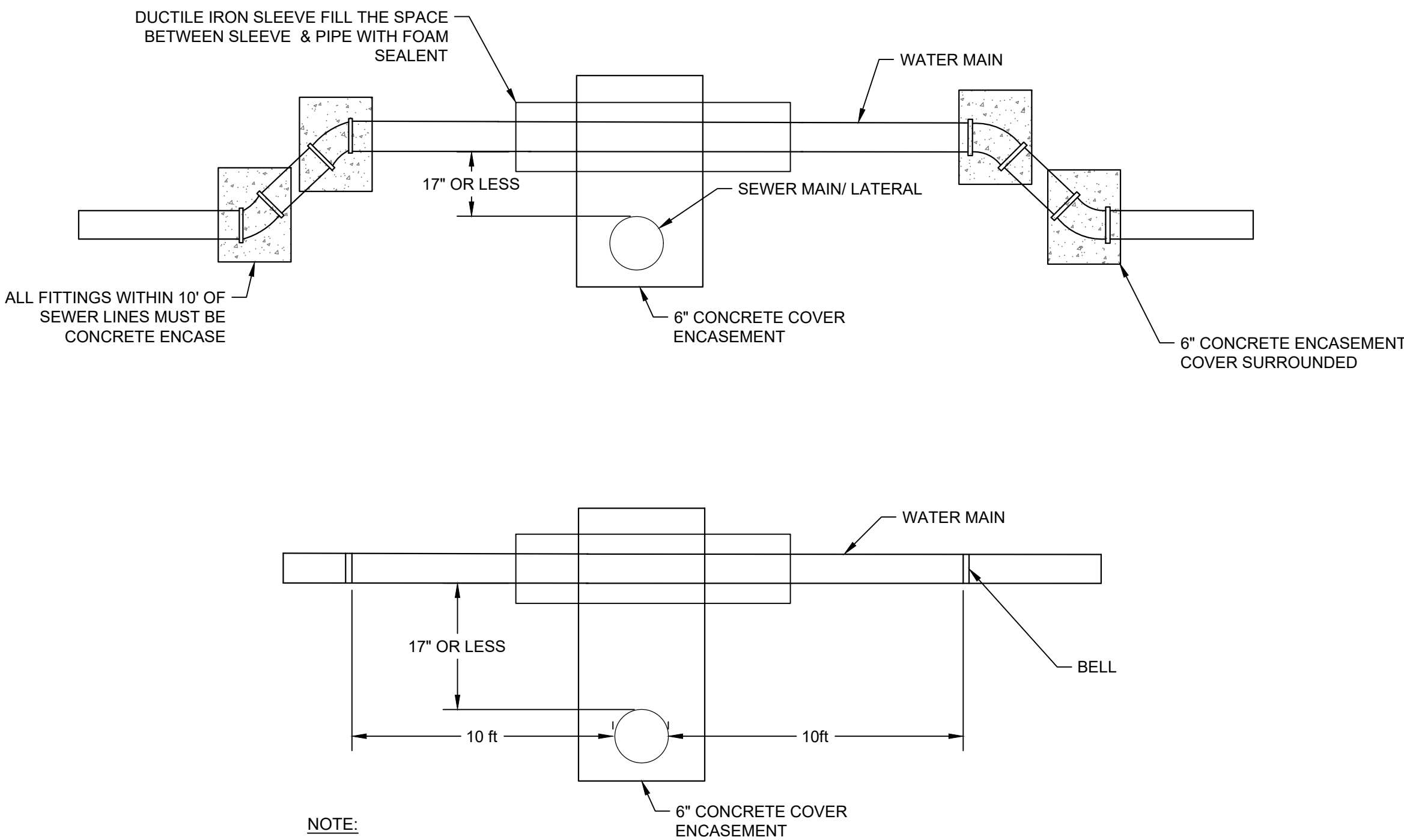
NOTE:

1. IF 10 FT BELL CLEARANCE CANNOT BE ACHIEVED, CONCRETE ENCASE THE BELL.

SEWER MAIN/LATERAL CROSSING (OVER)

3

NOT TO SCALE



NOTE:

1. IF 10 FT BELL CLEARANCE CANNOT BE ACHIEVED, CONCRETE ENCASE THE BELL.

SEWER MAIN/LATERAL CROSSING (OVER) WITH LESS THAN 18" CLEARANCE

4

NOT TO SCALE

SANBORN HEAD

NOT TO SCALE



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DATE: NOVEMBER 2020

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PROJECT NUMBER:
4348.02

DETAILS

SHEET NUMBER:
D08

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1

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SHA

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DATE

DESCRIPTION

BY

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PROJECT MGR: S. SOOS
PIC: M. NICOLORO
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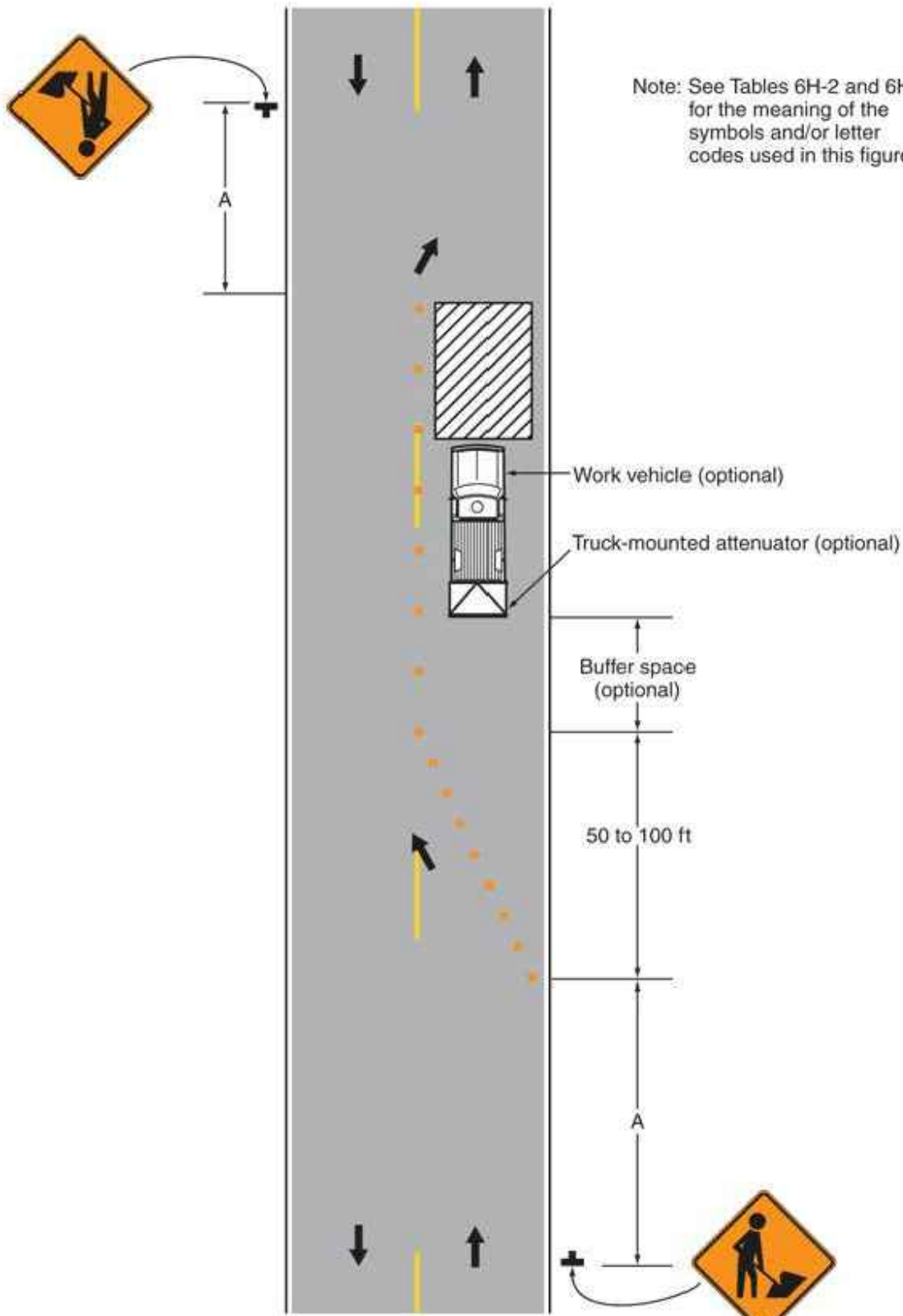
HANNAH'S REST WATERLINE REHABILITATION DESIGN
VIRGIN ISLANDS WATER AND POWER AUTHORITY
P.O. BOX 1009 CHRISTIANSTED, ST. CROIX, U.S. VIRGIN ISLANDS

PROJECT NUMBER:
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SHEET NUMBER:
T01

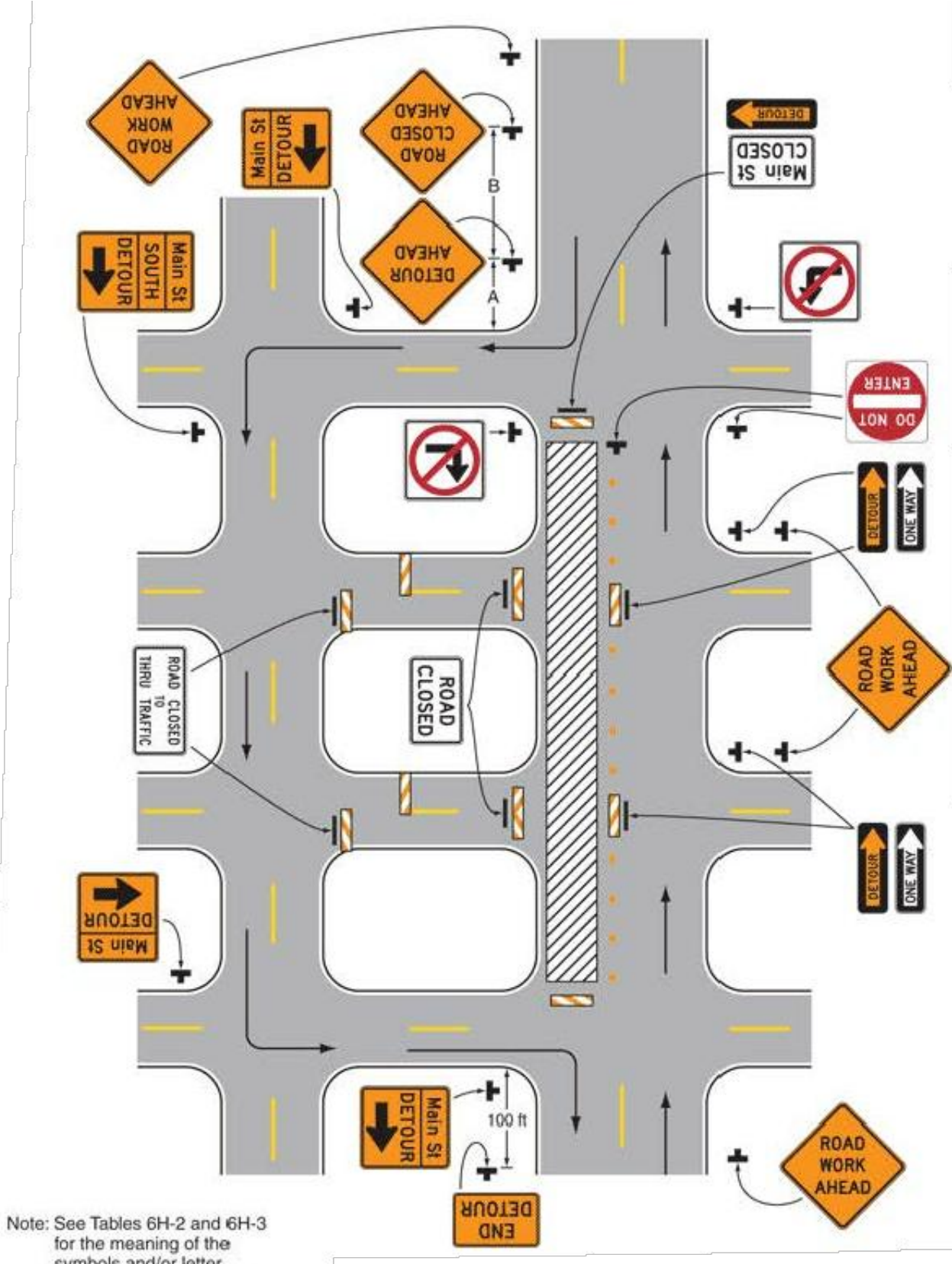
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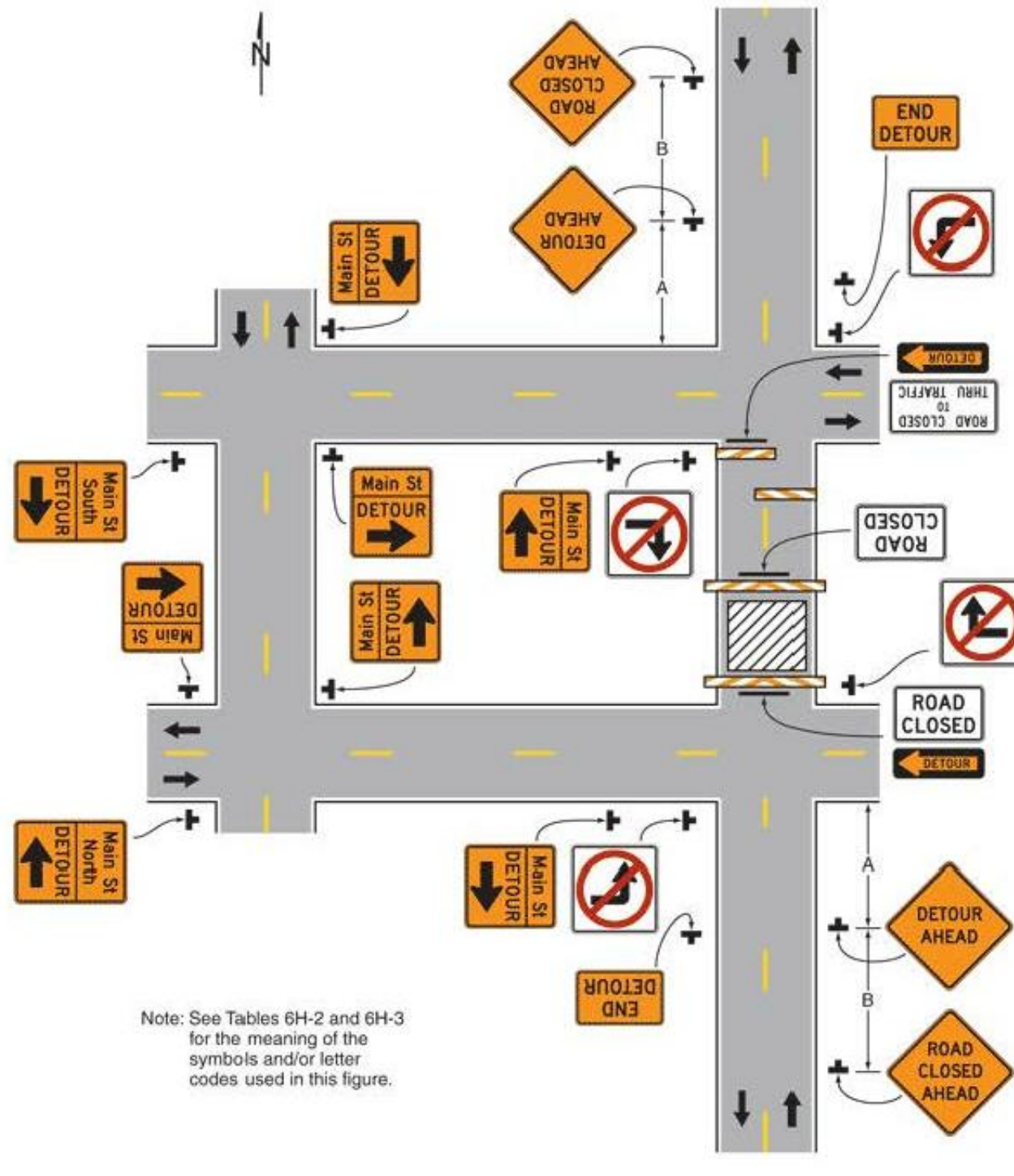
LANE CLOSURE ON A MINOR STREET (TA-18)

NOT TO SCALE



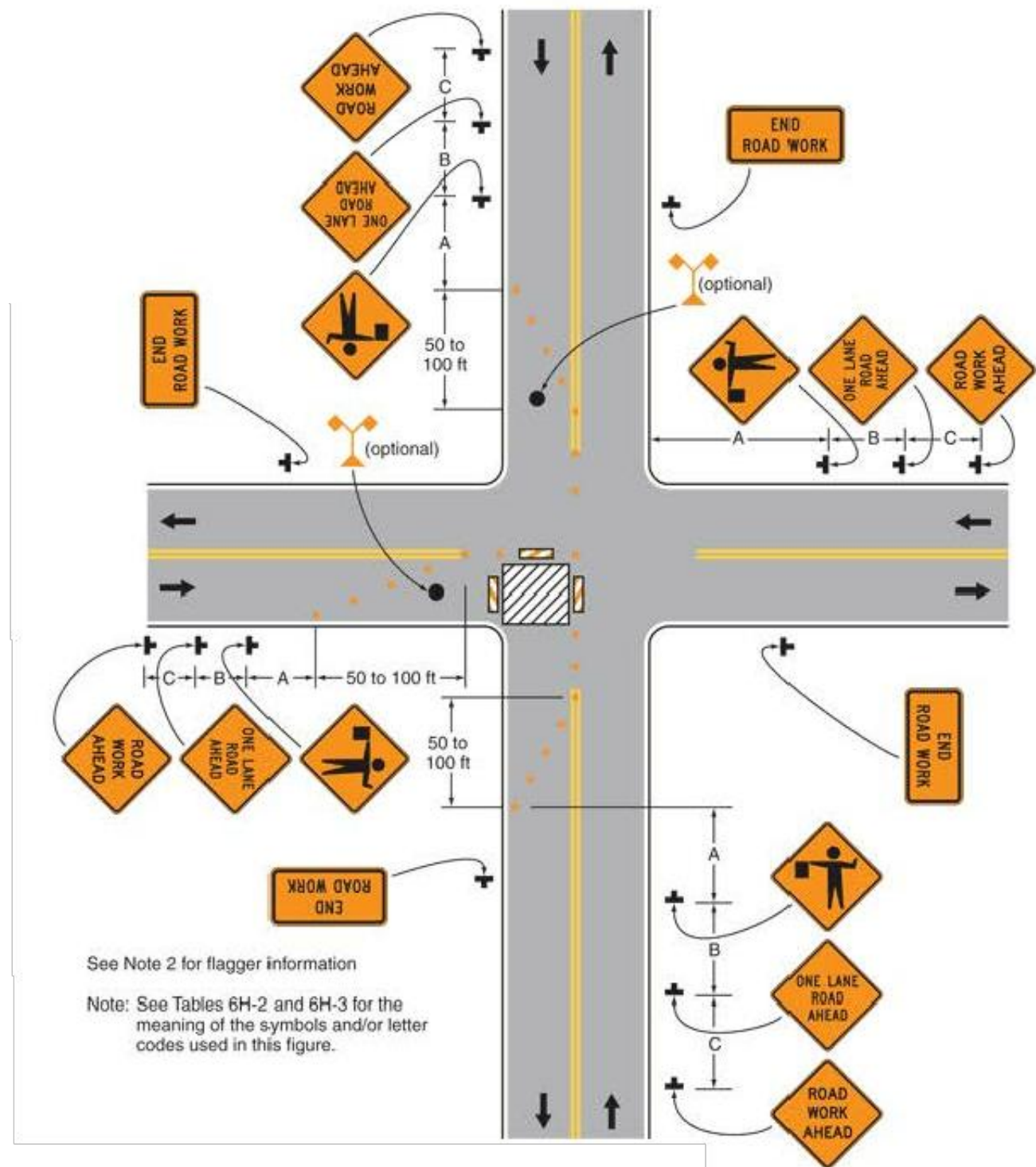
DETOUR FOR ONE TRAVEL DIRECTION (TA-19)

NOT TO SCALE



DETOUR FOR A CLOSED STREET (TA-20)

NOT TO SCALE



CLOSURE AT THE SIDE OF AN INTERSECTION (TA-27)

NOT TO SCALE

NOTES:

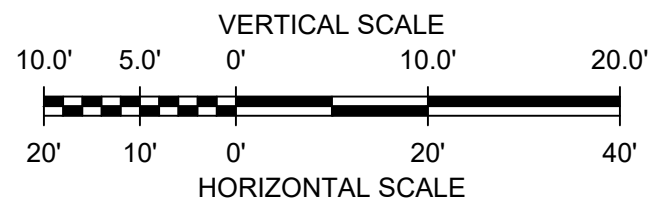
1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
2. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
5. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CONES.
6. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
7. ALL WORK WILL BE COMPLETED IN THE PRESENCE OF A POLICE DETAIL PERMITTED TO WORK WITHIN THE WORK-ZONE JURISDICTION.
8. ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE PERMIT RULES OUTLINED BY THE UNITED STATES VIRGIN ISLANDS.

LEGEND:

- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE
- WORK SPACE
- SIGN
- TYPE 3 BARRICADE

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN (LOW SPEED)*	100 FEET	100 FEET	100 FEET
URBAN (HIGH SPEED)*	350 FEET	350 FEET	350 FEET

* SPEED CATEGORY TO BE DETERMINED BY THE HIGHWAY AGENCY
** THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN, THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "FIRST SIGN" IS THE SIGN IN THE THREE-SIGN SERIES THAT IS CLOSEST TO THE TTC ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TTC ZONE.)



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TRAFFIC CONTROL DETAILS

PROJECT NUMBER:
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