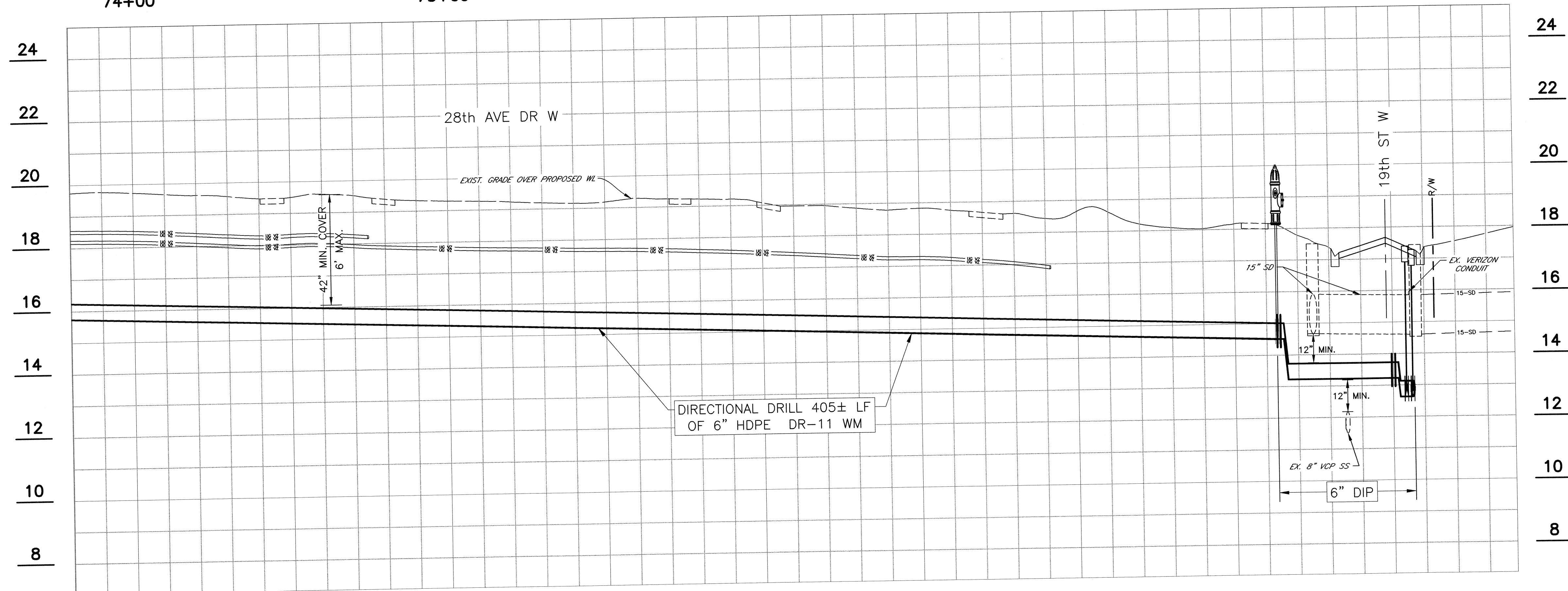
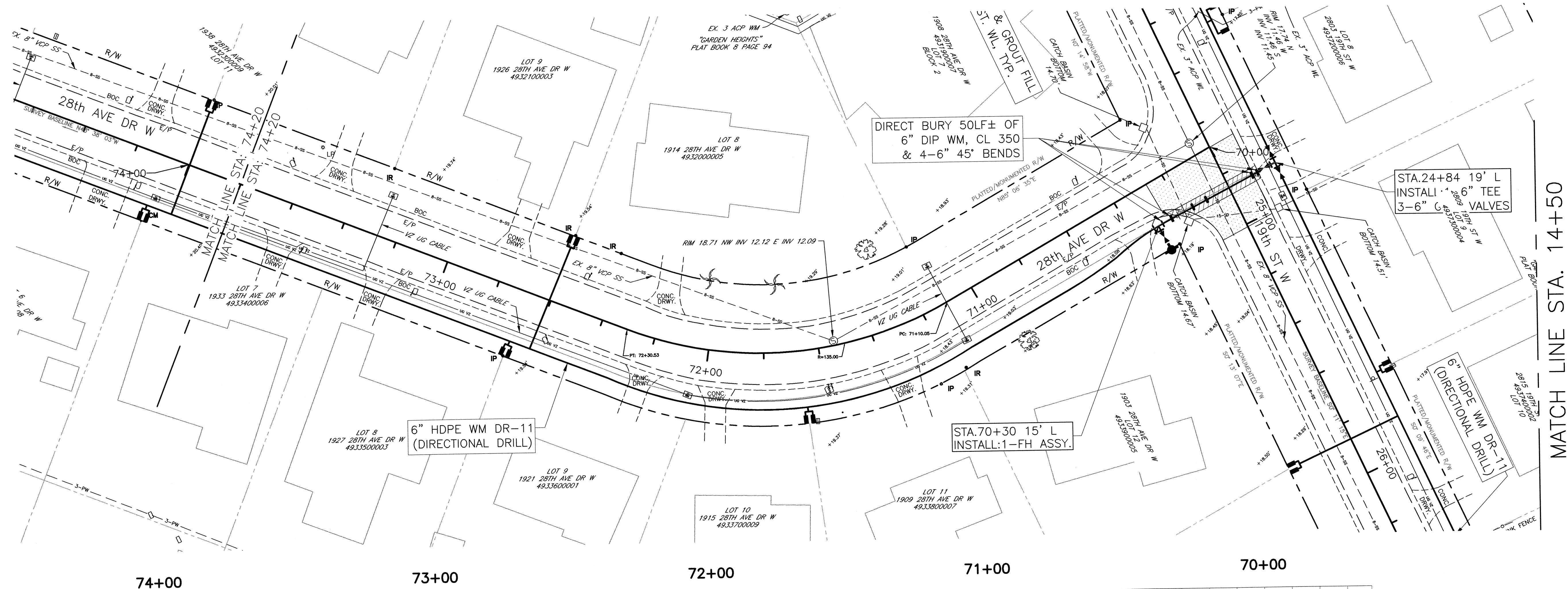


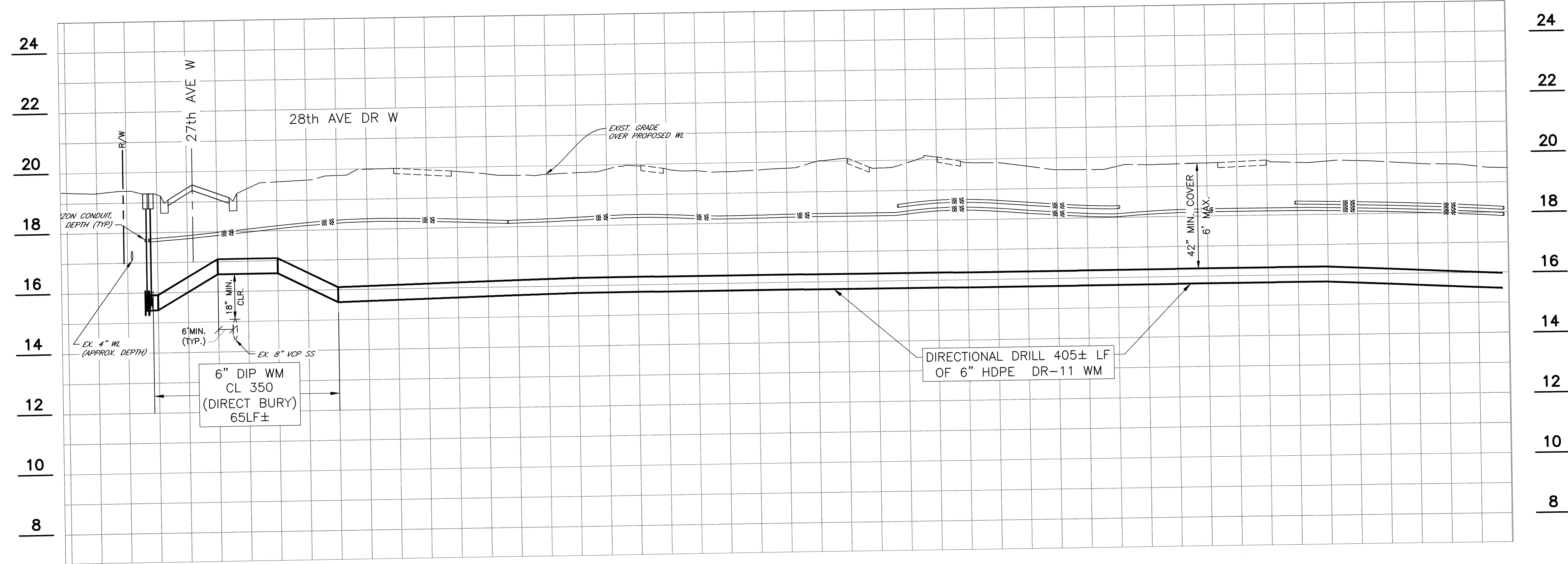
GARDEN HEIGHTS WATER LINE REPLACEMENT PLAN & PROFILE

	BY	DATE
SURVEYED	HYATT	04/2013
DESIGNED	JSS	06/2013
DRAWN	BLR	06/2013
CHECKED	-----	-----

SHEET 13 OF 2

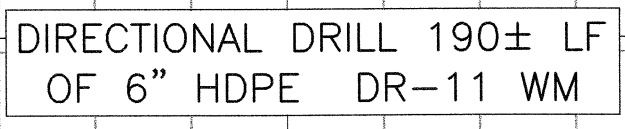
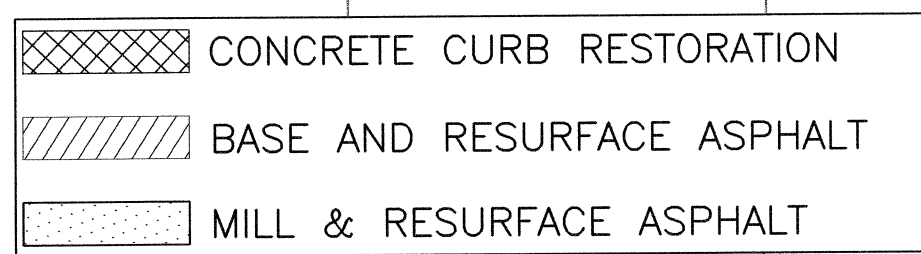


SHEET 4 OF 2



GARDEN HEIGHTS

WATER LINE REPLACEMENT



24
22
20
18
16
14
12
10
8

REVISION DESCRIPTION		BY	DATE
NO.			
PROJECT #	404-6		
SURVEY #	13-		
SEC./TWN./RGE	03/33-		
VERT. SCALE	1"		
HORIZ. SCALE	1"		
	BY		
SURVEYED	HYATT		
DESIGNED	JSS		
DRAWN	BLR		
CHECKED	----		

JAMES STOCKWELL, P.E.

Professional Engineer No. 6710

State of Florida

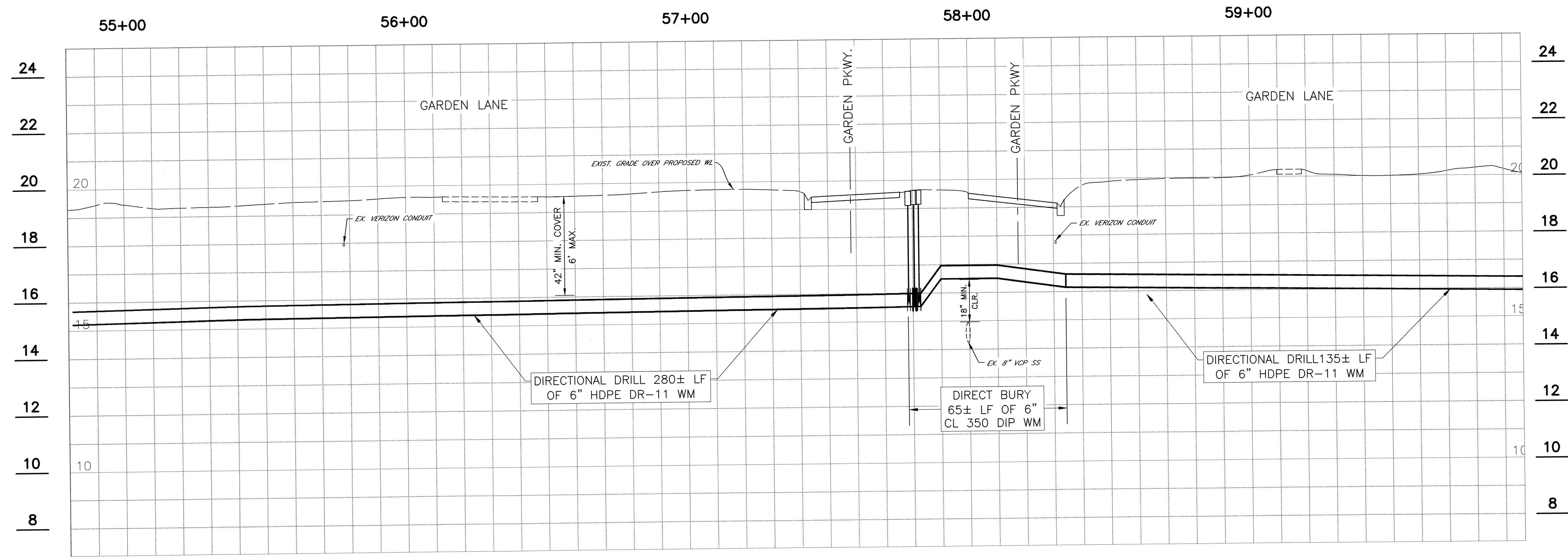
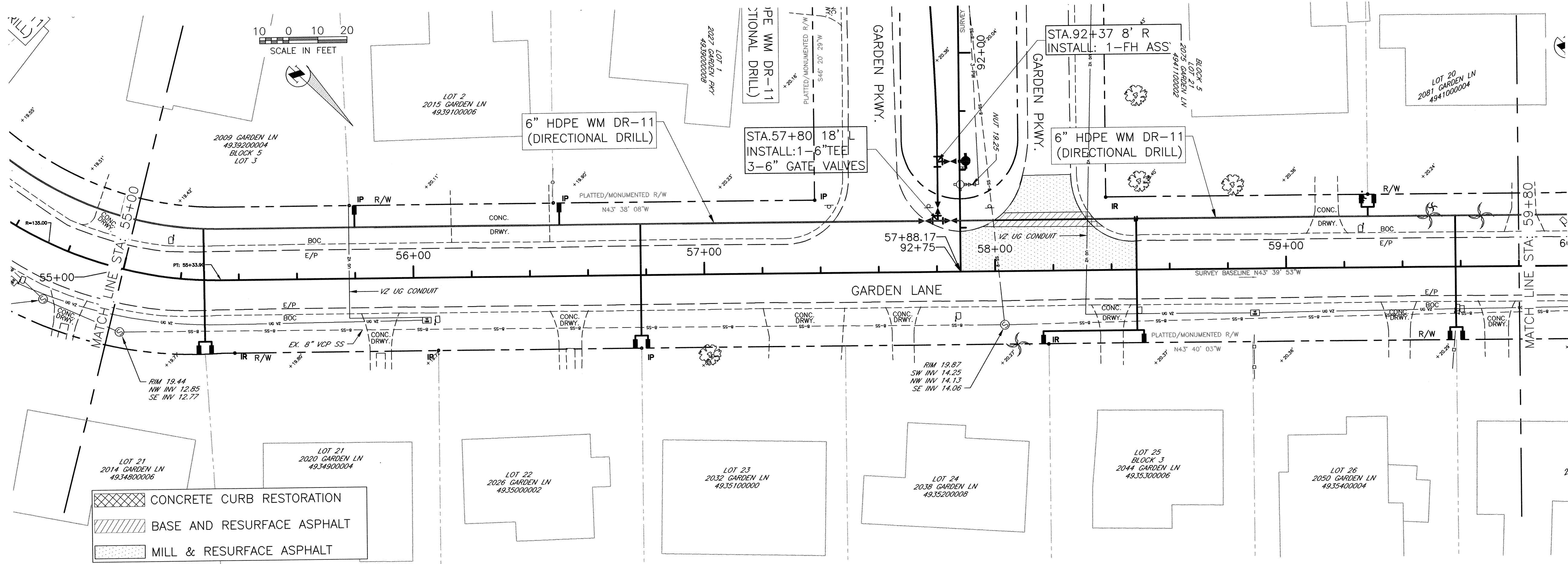
Exp. 06/30/2014

Signature: *[Signature]* Date: *[Date]*

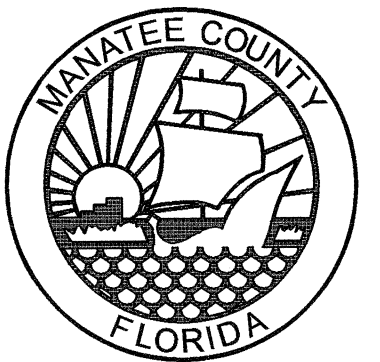
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SHR 11/15/0
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Copyright 2010 MANATEE COUNTY GOVERNMENT - SA:\PMD-Engineering_Store\Util_Eng_Design\PROJ-WTR_LIN-Proj\Water_Lines - Garden Heights\DWG\16_11/25/2013 3:41 PM Bruce Robertson, L1, ANSI full bleed D (34.00 x 22.00 inches)



MANATEE COUNTY GOVERNMENT
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES



MANATEE COUNTY
FLORIDA
1022 26th Avenue East
Bradenton, FL 34208

GARDEN HEIGHTS
WATER LINE REPLACEMENT
PLAN & PROFILE

NO.	REVISION	DESCRIPTION	BY	DATE

PROJECT #	404-6085170	
SURVEY #	13-1759	
SEC./TWN./RGE	03/35S/17E	
VERT. SCALE	1"=2'	
HORZ. SCALE	1"=20'	
SURVEYED	HYATT	04/2013
DESIGNED	JSS	06/2013
DRAWN	BLR	06/2013
CHECKED	-----	-----

JAMES STOCKWELL, P.E.

FLORIDA PROFESSIONAL ENGINEER
No. 67198
Exp. 12/31/2014



SHEET 27 OF 27

PROJECT #	404-6085170
SURVEY #	13-1759
SEC./TWN./RGE	03/35S/17E
VERT. SCALE	1"=2'
HORZ. SCALE	1"=20'

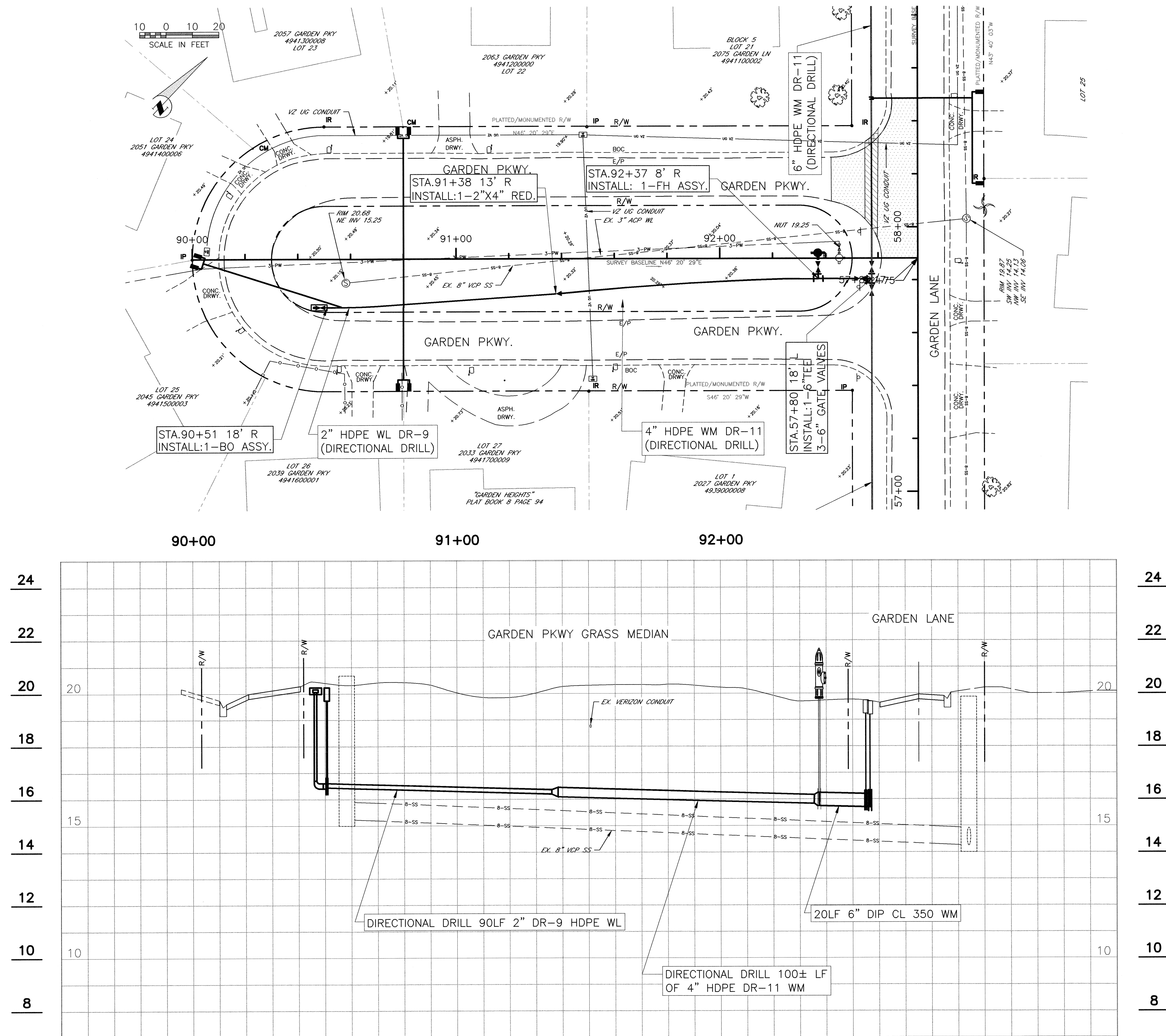
	BY	DATE
SURVEYED	HYATT	04/2013
DESIGNED	JSS	06/2013
DRAWN	BLR	06/2013
CHECKED	-----	-----

JAMES STOCKWELL, P.E.

FLORIDA REG. # 67198

PROFESSIONAL ENGINEER
JAMES D. STOCKWELL
No. 67198
State of Florida
Signature
Date 12/13/06

SHEET 11 OF 27



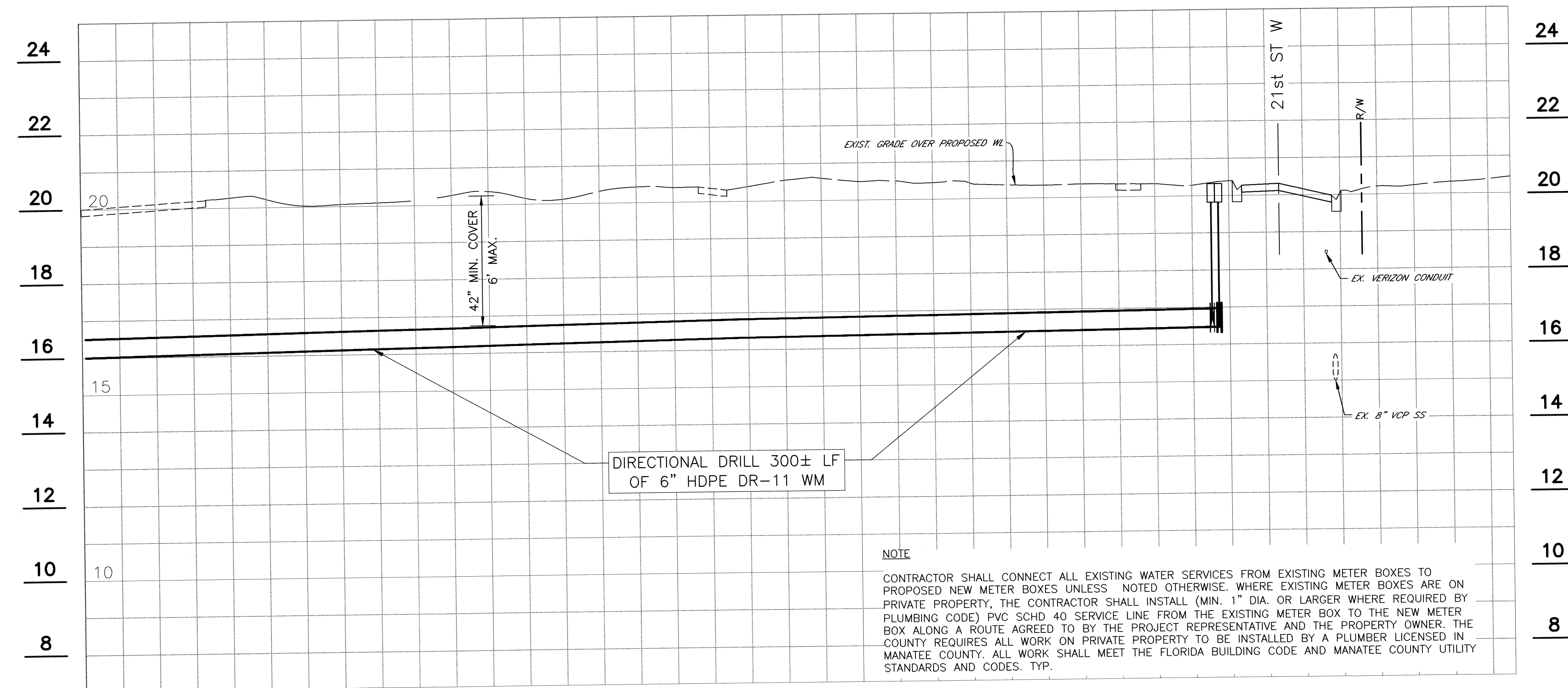
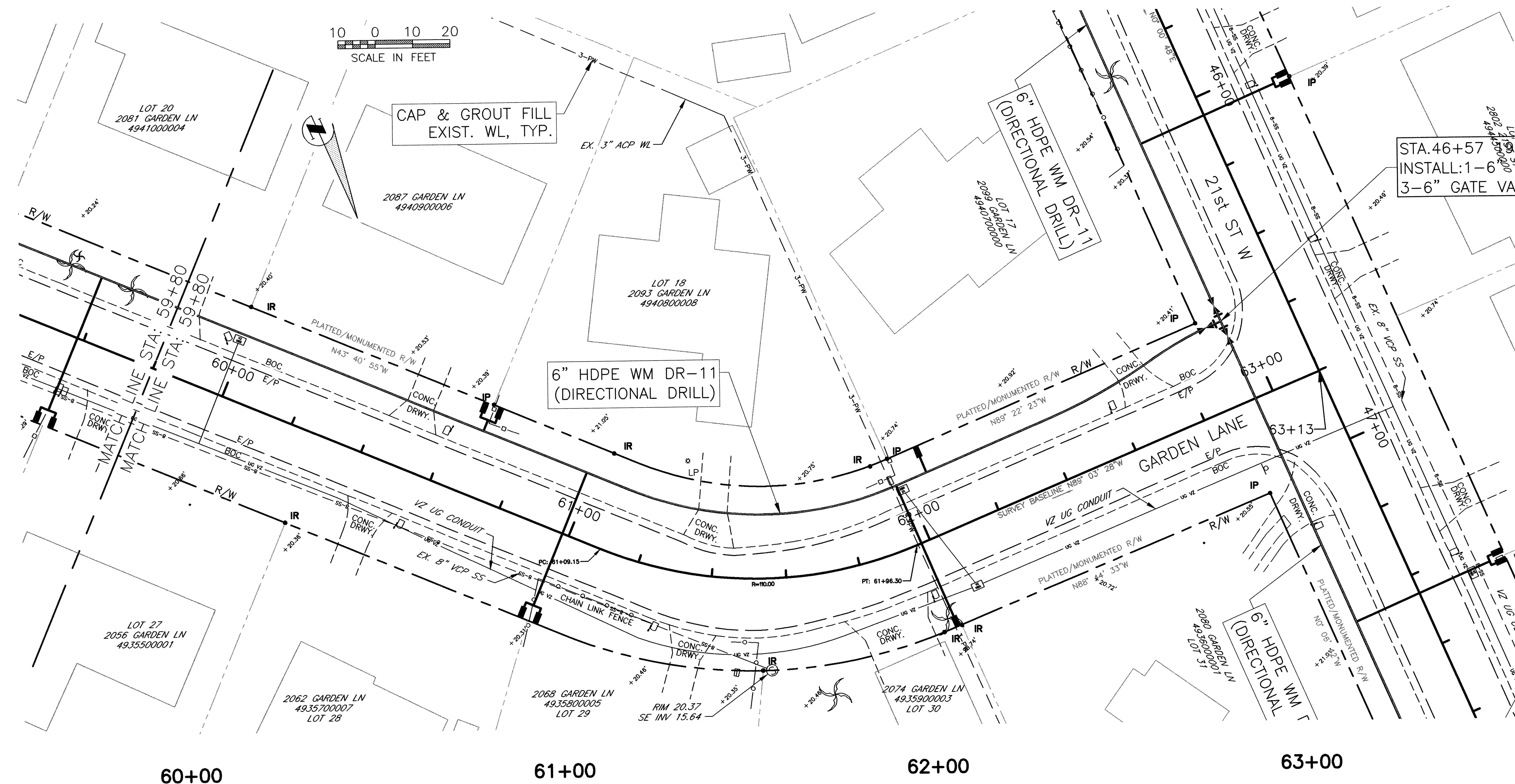
GARDEN HEIGHTS WATER LINE REPLACEMENT PLAN & PROFILE

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PROJECT #	404-6085170
SURVEY #	13-1759
SEC./TWN./RGE	03/35S/17E
VERT. SCALE	1"=2'
HORZ. SCALE	1"=20'

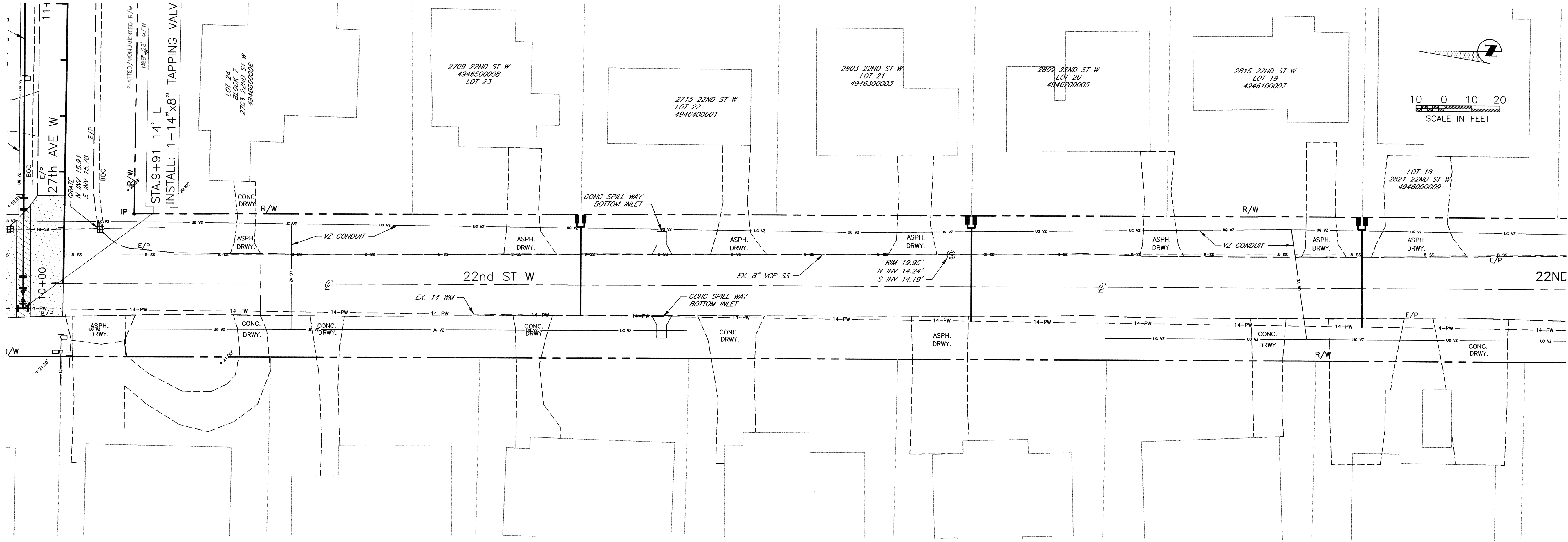
	BY	DATE
SURVEYED	HYATT	04/2013
DESIGNED	JSS	06/2013
DRAWN	BLR	06/2013
CHECKED	-----	-----

SHEET 18 OF 27

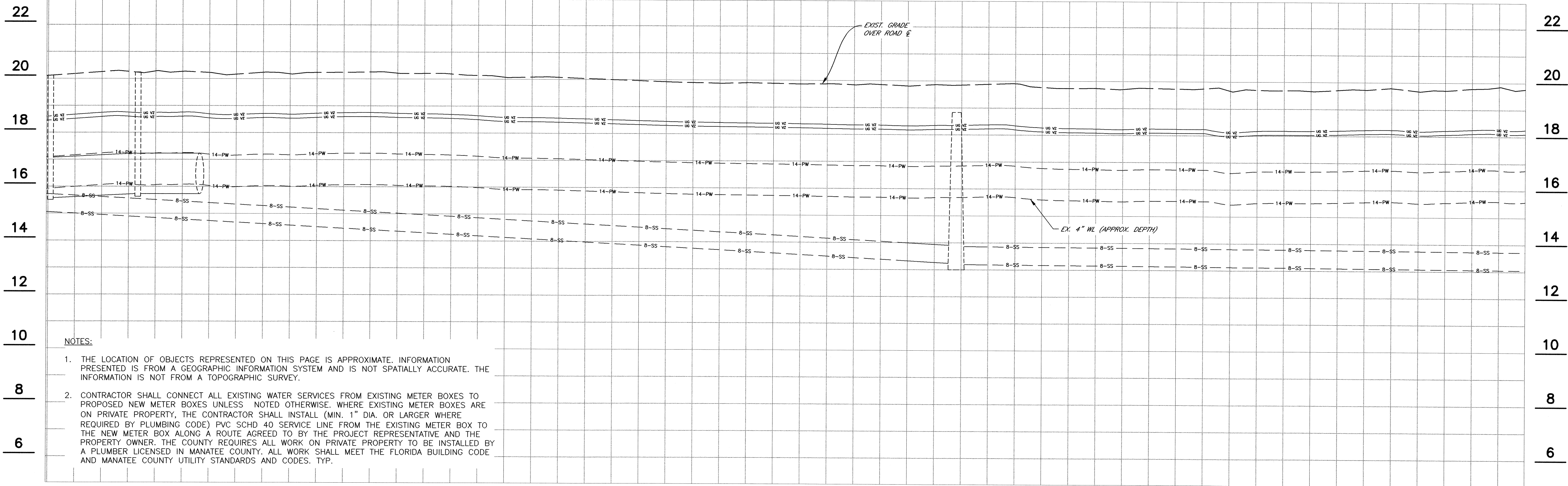


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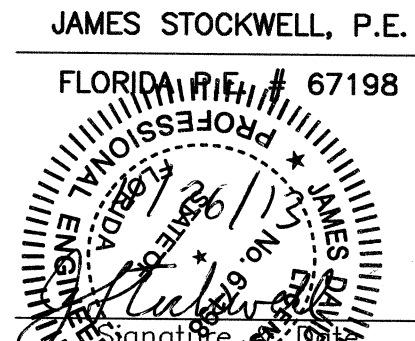
COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT S:\PWO_Engineering\Shore\Util_Eng_Design\PROJ\WTR LINE Proj\Water Lines - Garden Heights\DWG\Water Lines - Garden Heights.dwg, 11/25/2013 3:41 PM Bruce Robertson, 1:1, ANSI full bleed D (34.00 x 22.00 inches)

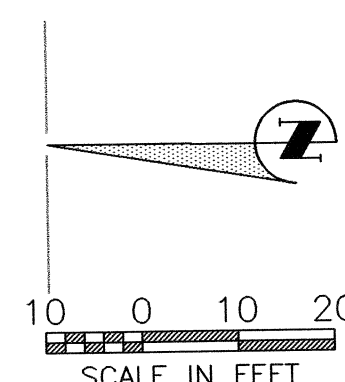


GARDEN HEIGHTS
WATER LINE REPLACEMENT
PLAN & PROFILE



- NOTES:
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 2. CONTRACTOR SHALL CONNECT ALL EXISTING WATER SERVICES FROM EXISTING METER BOXES TO PROPOSED NEW METER BOXES UNLESS NOTED OTHERWISE. WHERE EXISTING METER BOXES ARE ON PRIVATE PROPERTY, THE CONTRACTOR SHALL INSTALL (MIN. 1" DIA. OR LARGER WHERE REQUIRED BY PLUMBING CODE) PVC SCHD 40 SERVICE LINE FROM THE EXISTING METER BOX TO THE NEW METER BOX ALONG A ROUTE AGREED TO BY THE PROJECT REPRESENTATIVE AND THE PROPERTY OWNER. THE COUNTY REQUIRES ALL WORK ON PRIVATE PROPERTY TO BE INSTALLED BY A PLUMBER LICENSED IN MANATEE COUNTY. ALL WORK SHALL MEET THE FLORIDA BUILDING CODE AND MANATEE COUNTY UTILITY STANDARDS AND CODES. TYP.

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	404-6085170		
SURVEY #	13-1759		
SEC./TWN./RGE	03/35S/17E		
VERT. SCALE	1"=2'		
HORZ. SCALE	1"=20'		
SURVEYED	HYATT	DATE	04/2013
DESIGNED	JSS	DATE	06/2013
DRAWN	BLR	DATE	06/2013
CHECKED	-----	DATE	-----
JAMES STOCKWELL, P.E.			
FLORIDA PROFESSIONAL ENGINEER # 67198			
			
SHEET 11 OF 27			



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DATE									
BY									
REVISION DESCRIPTION									
NO.									
PROJECT #	404-6085170								
SURVEY #	13-1759								
SEC./TWN./RGE	03/35S/17E								
VERT. SCALE	1"=2'								
HORIZ. SCALE	1"=20'								
	BY	DATE							
SURVEYED	HYATT	04/2013							
DESIGNED	JSS	06/2013							
DRAWN	BLR	06/2013							
CHECKED	-----	-----							
JAMES STOCKWELL, P.E.									

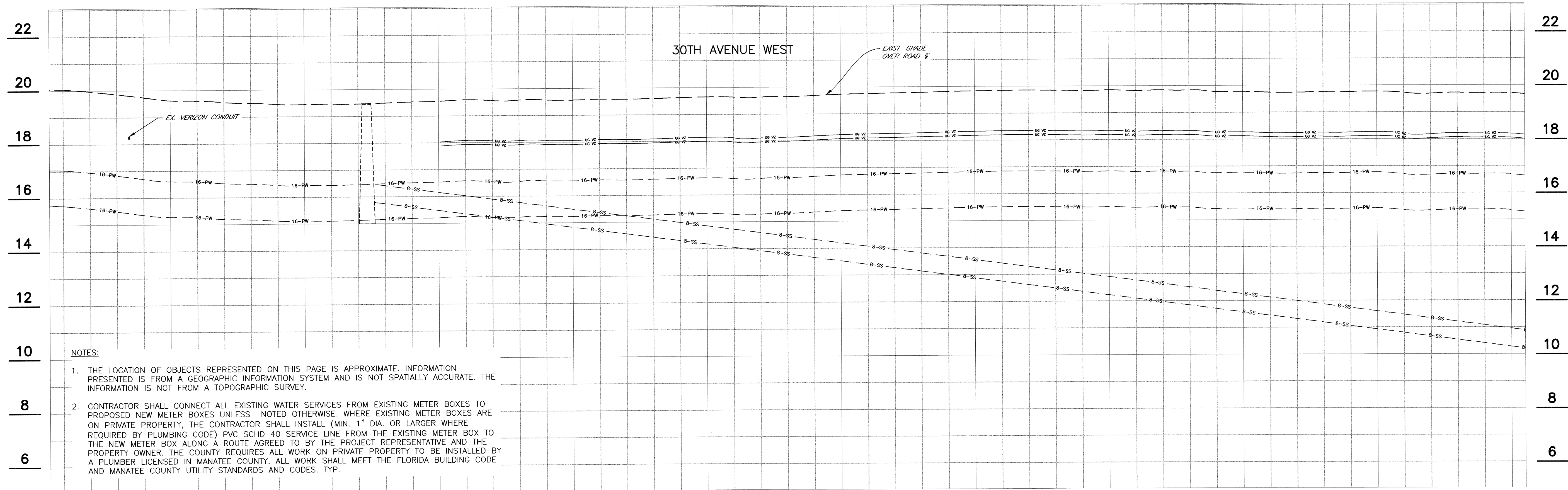
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SURVEY #	13-1759	
SEC./TWN./RGE	03/35S/17E	
VERT. SCALE	1"=2'	
HORZ. SCALE	1"=20'	
	BY	DATE
SURVEYED	HYATT	04/2013
DESIGNED	JSS	06/2013
DRAWN	BLR	06/2013
CHECKED	-----	-----

JAMES STOCKWELL, P.E.

FLORIDA 01/11/17 198

PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 000155
Signature: James Stockwell
JAMES STOCKWELL, P.E.

SHEET 27



GARDEN HEIGHTS

WATER LINE REPLACEMENT

PLAN & PROFILE

PROJECT #	404-6085170	
SURVEY #	13-1759	
SEC./TWN./RGE	03/35S/17E	
VERT. SCALE	1"=2'	
HORZ. SCALE	1"=20'	
	BY	DATE
SURVEYED	HYATT	04/2013
DESIGNED	JSS	06/2013
DRAWN	BLR	06/2013
CHECKED	-----	-----

JAMES STOCKWELL, P.E.

FLORIDA PROFESSIONAL ENGINEER

NO. 67152

STATE OF FLORIDA

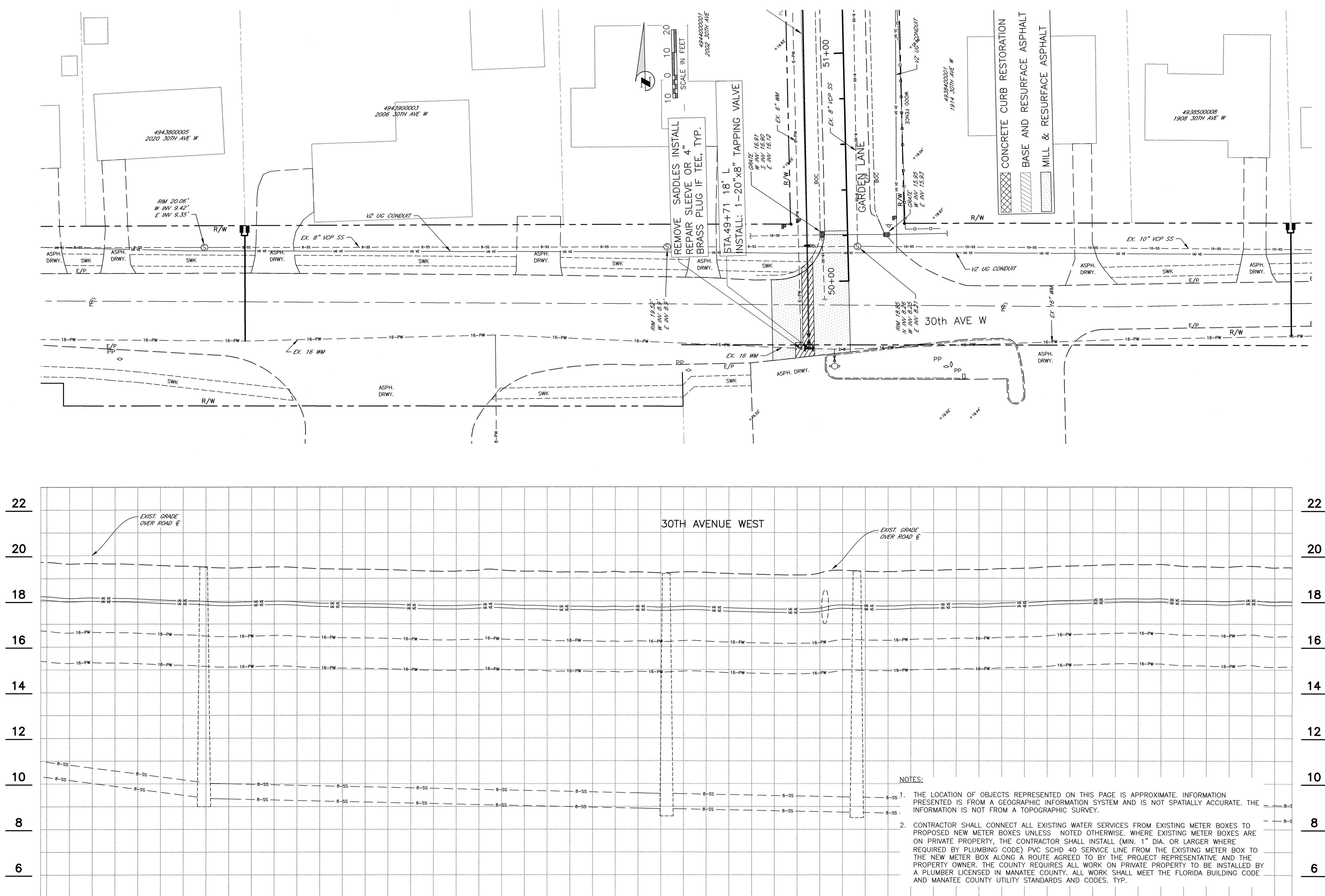
JAMES DANIEL STOCKWELL

Signature: J. Stockwell

DATE: 06/20/2013

PLANNING

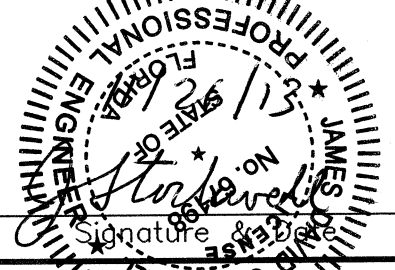
SHEET 21 OF 27



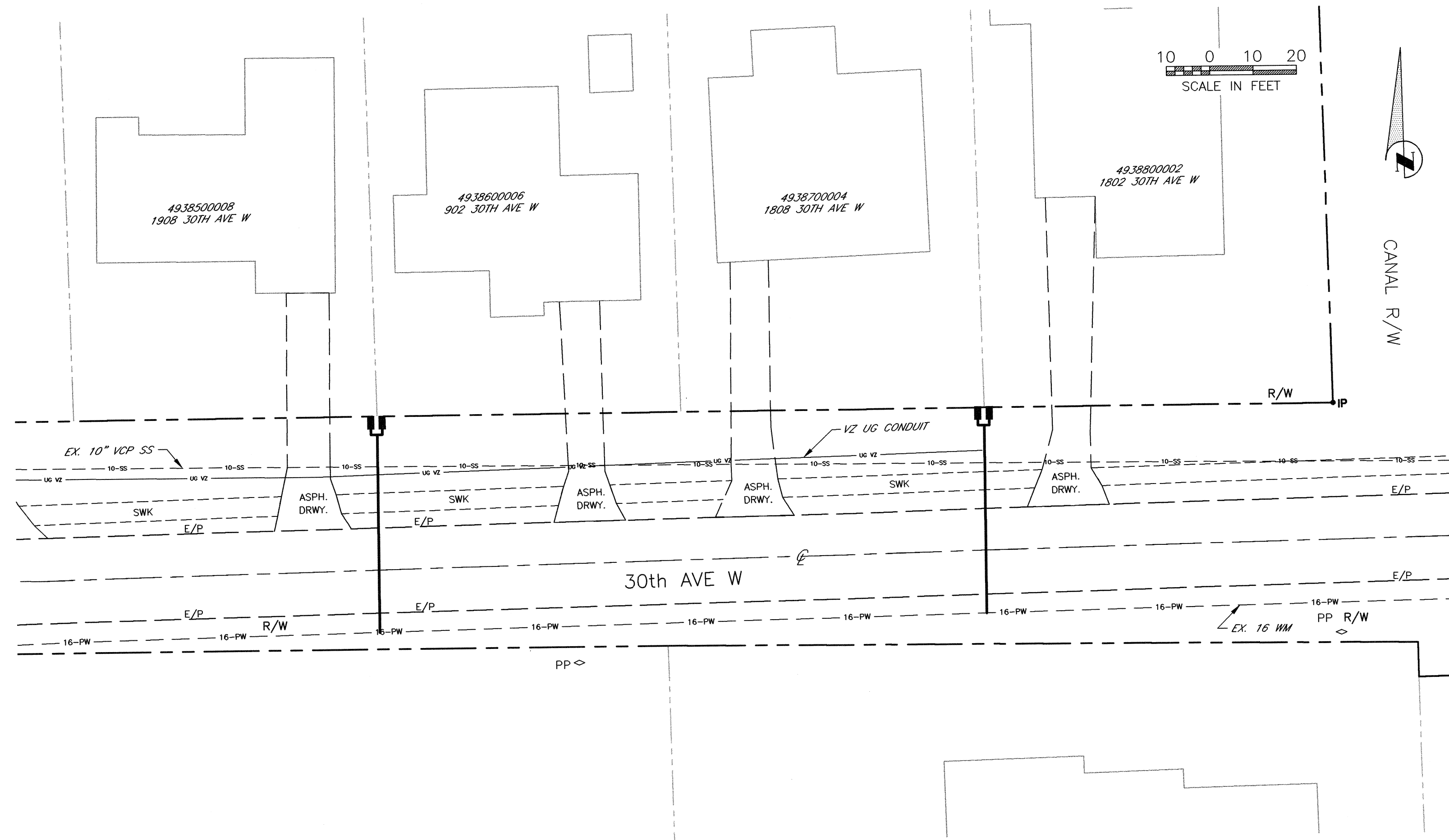
GARDEN HEIGHTS WATER LINE REPLACEMENT PLAN & PROFILE

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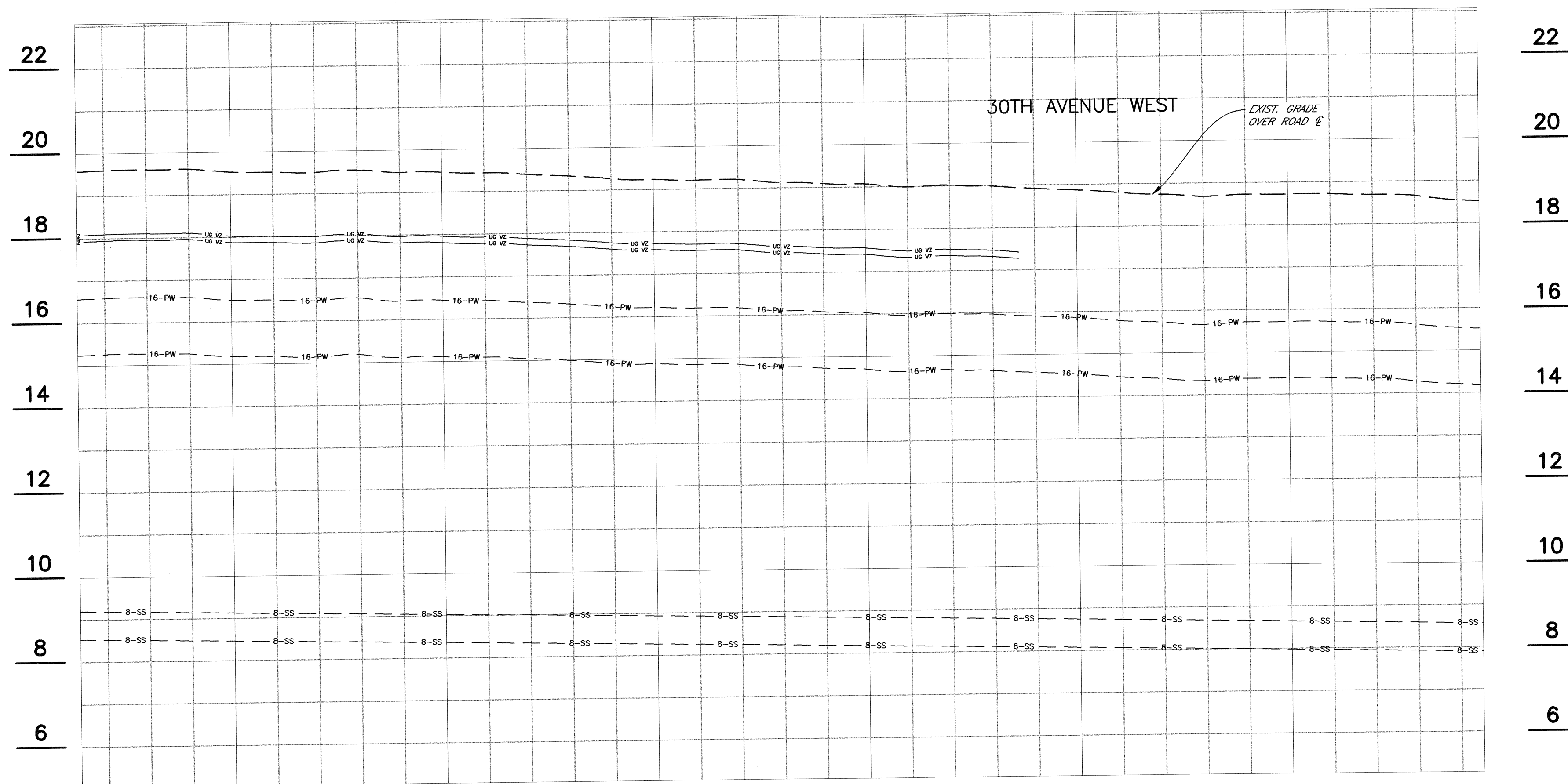
FLORIDA RE # 67198



SHEET 27



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THRUST BLOCK DIMENSIONS B ft. x d inches													
PIPE SIZE (IN.)	90°BEND		45°BEND		22.5°BEND		11.25°BEND		DEAD END & TEE		45° WYE		
	B	d	B	d	B	d	B	d	B	d	B	d	
4	1.5	3 ½	1.1	3 ½	0.8	3 ½	0.6	3 ½	1.3	3 ½	1.1	3 ½	
6	2.2	5 ½	1.6	3 ¾	1.2	3 ¾	0.8	3 ¾	1.9	4 ½	1.6	3 ¾	
8	2.9	7	2.1	5	1.5	3 ½	1.1	3 ½	2.4	5 ½	2.0	4 ¾	
10	3.5	8 ½	2.6	6 ¼	1.9	4 ½	1.3	3 ½	3.0	7 ¼	2.5	6	
12	4.2	10	3.1	7 ½	2.2	5 ½	1.6	3 ½	3.5	8 ½	3.0	7 ¾	
14	4.9	11 ¾	3.6	8 ¾	2.6	6 ¾	1.8	4 ¾	4.1	9 ¾	3.4	8 ¾	
16	5.5	13 ¼	4.1	9 ¾	2.9	7	2.1	5	4.7	11 ¼	3.9	9 ¾	
18	6.2	15	4.6	11	3.3	8	2.3	5 ½	5.2	12 ½	4.4	10 ¾	
20	6.9	16 ½	5.0	12	3.6	8 ¾	2.6	6 ¾	5.8	14	4.9	11 ¾	
24	8.2	19 ¾	6.0	14 ½	4.3	10 ¾	3.1	7 ½	6.9	16 ½	5.8	14	
30	10.1	24 ¾	7.5	18	5.3	12 ¾	3.8	9	8.5	20 ½	7.2	17 ¾	
36	12.1	29	8.9	21 ¾	6.4	15 ¼	4.5	10 ¾	10.2	24 ½	8.6	20 ¾	

Diagram illustrating the dimensions for the reinforcement mat schedule. The diagram shows a cross-section of a pipe with a semi-circular top and a rectangular base. The total width is labeled "B". The width of the base is labeled "SQ". The thickness of the base is labeled "1 3/8\".

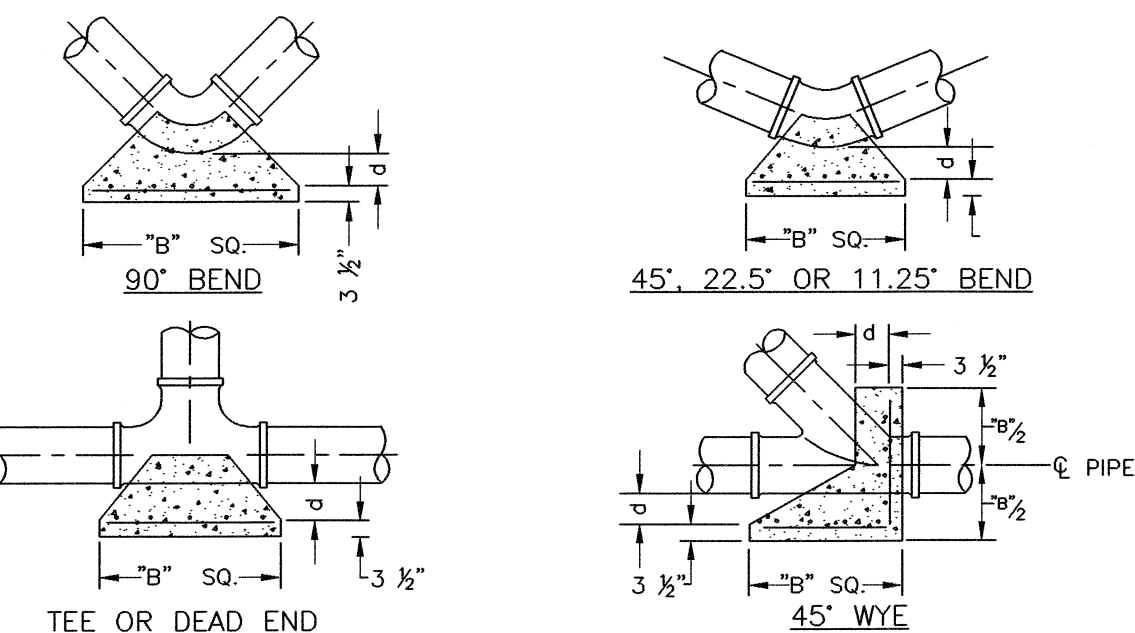
REINFORCEMENT MAT SCHEDULE

FOR DIM. "B" BETWEEN 5.75' & 12.5' USE #4 @ 8" EACH WAY

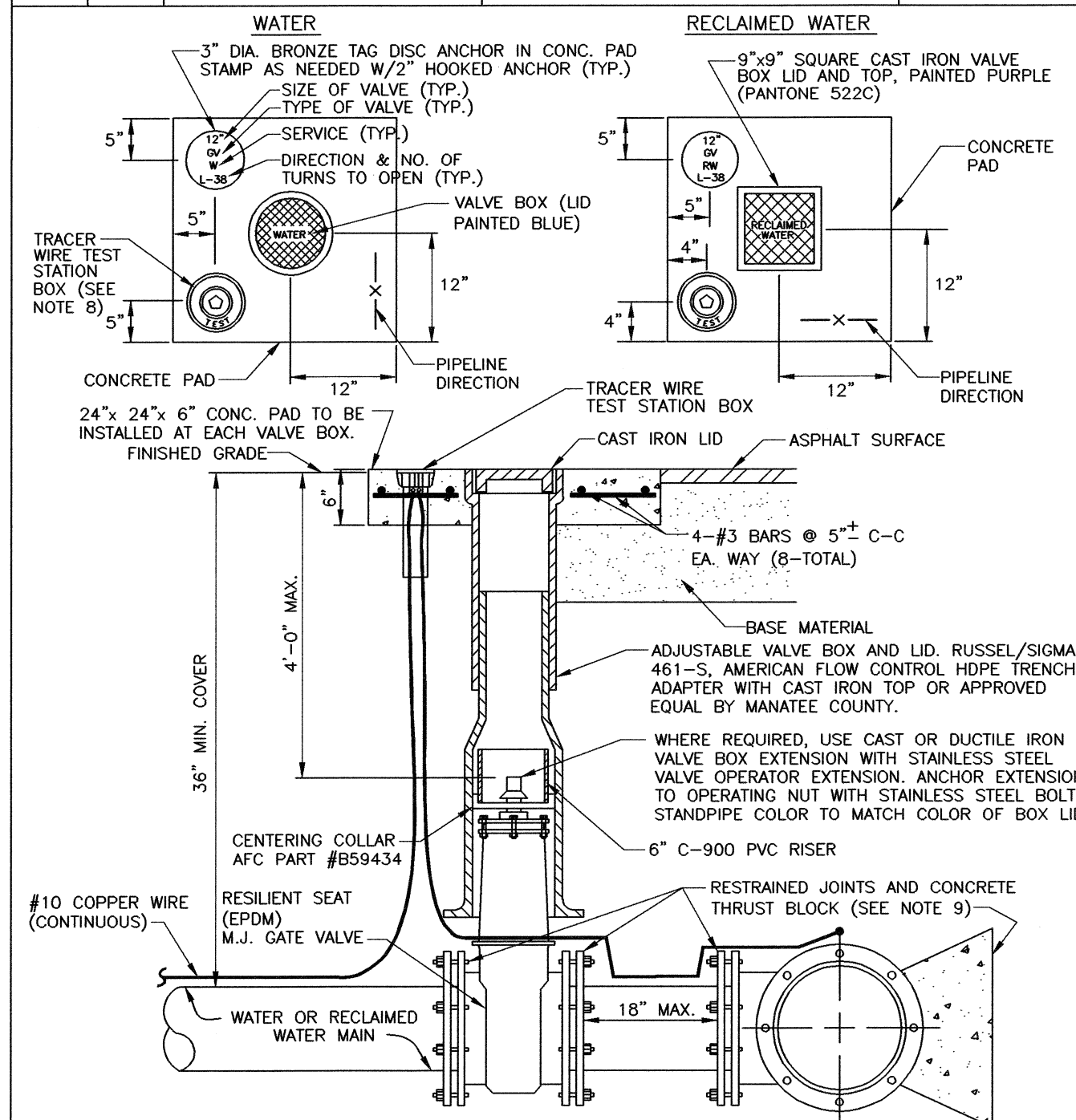
FOR DIM. "B" LESS THAN 5.75' USE #3 @ 8" EACH WAY

NOTES:

1. ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
2. THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING=2000 PSF, CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
3. FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
4. RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. THRUST BLOCKS SHALL BE USED IN SITUATIONS WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE BOTH REQUIRED.



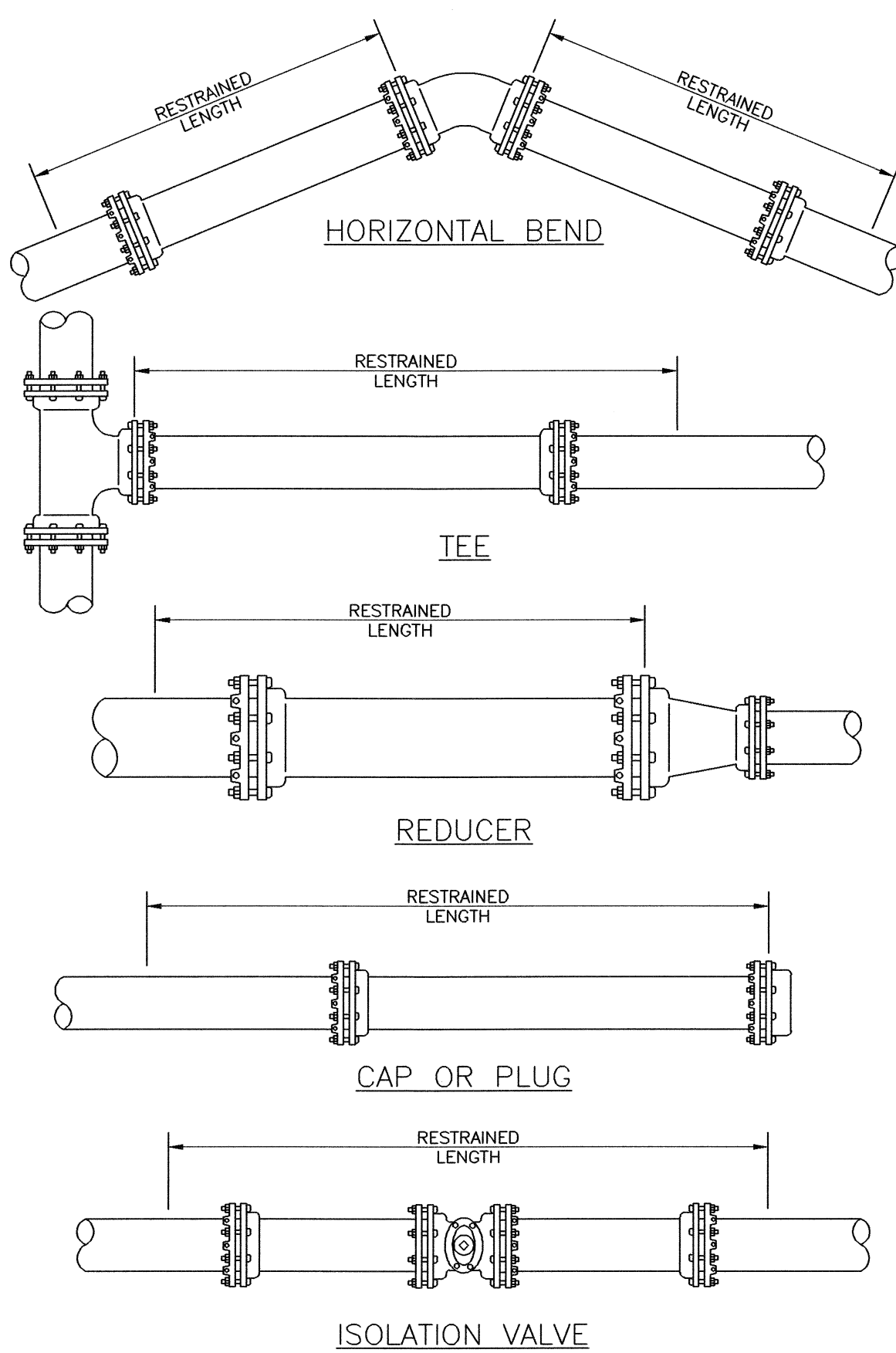
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CONCRETE THRUST BLOCKS	UG-7 PAGE 107
REV. BY	DATE		
CLB/BR	11/10		
MAY 10, 2011 DATE OF APPROVAL			



NOT

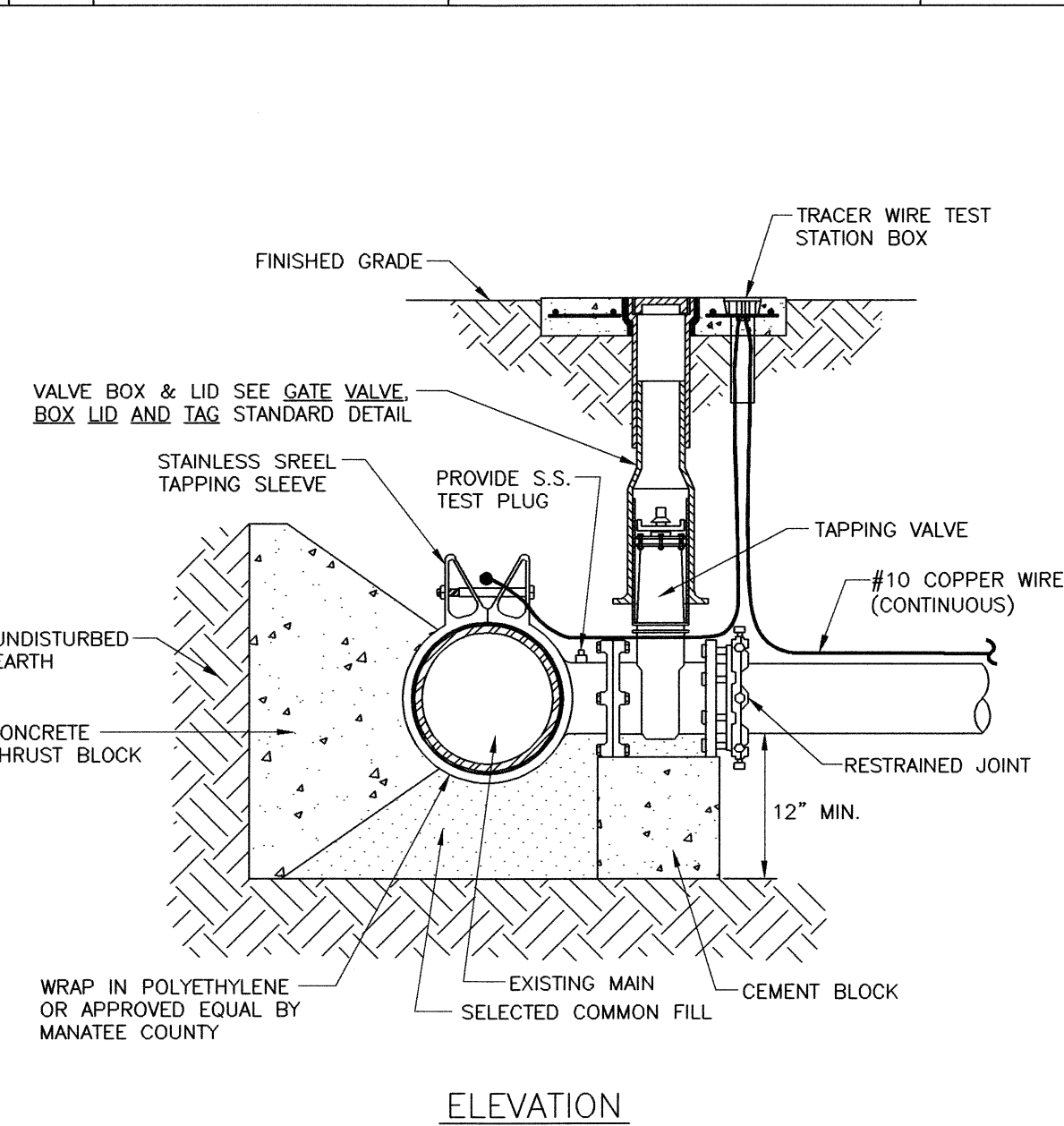
1. "W" OR "RW" TO BE IMBEDDED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE CURB. IF NO CURB, INSTALL A BLUE DISC WITH "W" OR PURPLE DISC WITH "RW" AND A 1/8"x1" GALVANIZED STEEL ROD.
2. ALL EXISTING AND PROPOSED VALE VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. PRECAST CONCRETE PADS & THRUST BLOCKS SHALL NOT BE USED.
4. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED.
5. FOR VALVES 16" AND LARGER, USE BUTTERFLY VALVES.
6. TRACER WIRE TO BE IMBEDDED INTO THE PRECAST CONCRETE PAD.
7. TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 200 FEET OF THE TRACER WIRE TEST STATION BOX.
8. WHERE TRACER BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM THE FULL LENGTH SPECIFIED FOR "TEES".
9. BINGHAM & TAYLOR PDS0010 FOR NORMAL JURY SERVICE, WHERE VALVE WILL BE IN STREET OR PARKED UNDER VEHICLE TRAFFIC.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, LID AND TAG	UW-2
REV. BY CLB/KE	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL			PAGE 120



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR PIPE	UG-10
REV. BY CLB/BR	DATE 11/10		
MAY 10, 2011 DATE OF APPROVAL			

PAGE 110



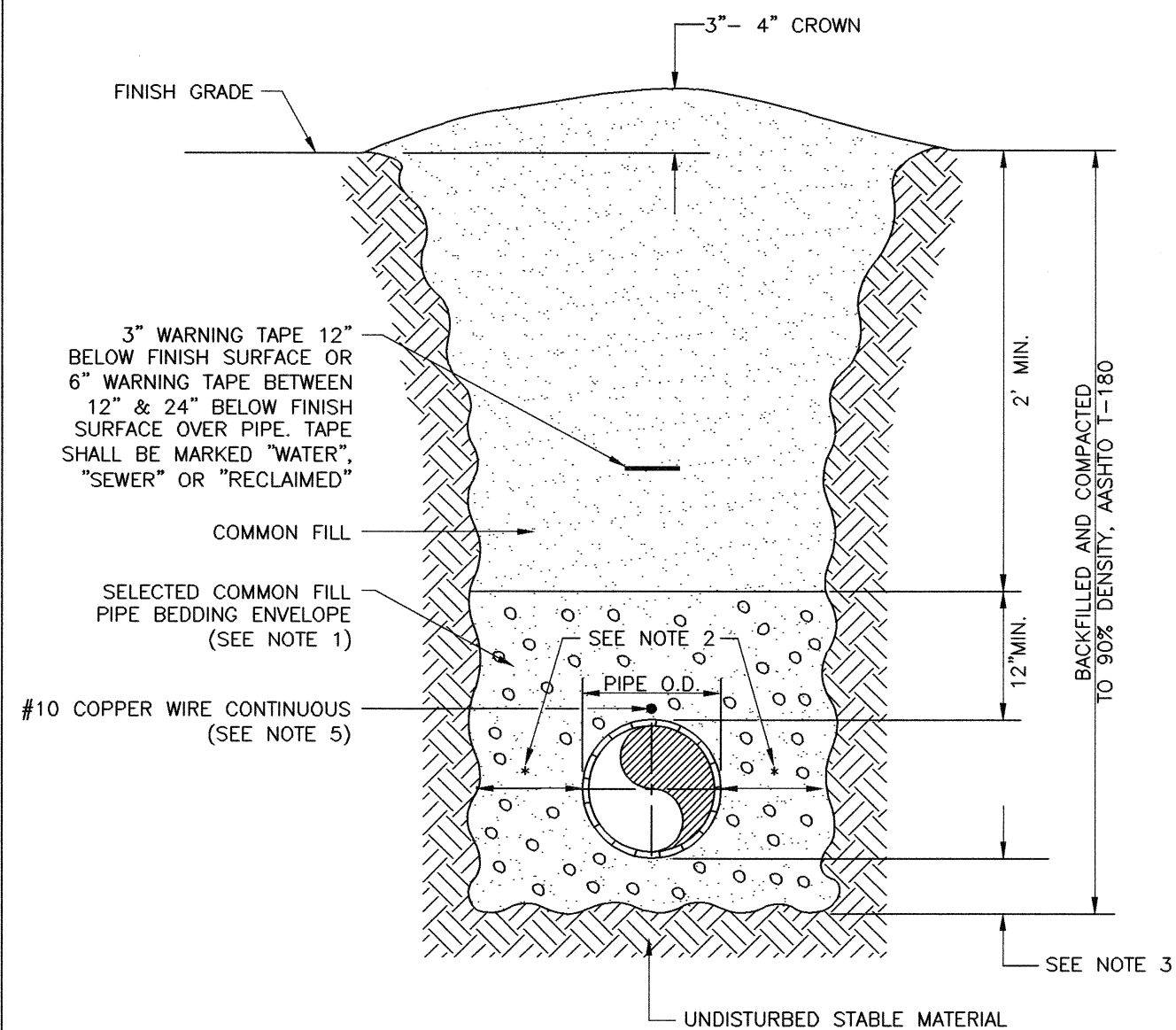
NOTES:

1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER OR 150 PSI FOR FORCE MAIN.
2. ALL FITTINGS TO BE WRAPPED WITH 1/2" MIL VISQUEEN AT THRUST BLOCK.
3. ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR. ALL TAPS MUST BE MADE AT AN ANGLE OF 45 DEGREES TO THE MAIN AND CURED FOR MORE THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JOINT OR FITTING.
4. CONTRACTORS TO SUGGEST TAPPING GROWING TO A JOINT AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
5. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TREE FULL LENGTH TO NEXT MANHOLE.
6. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.

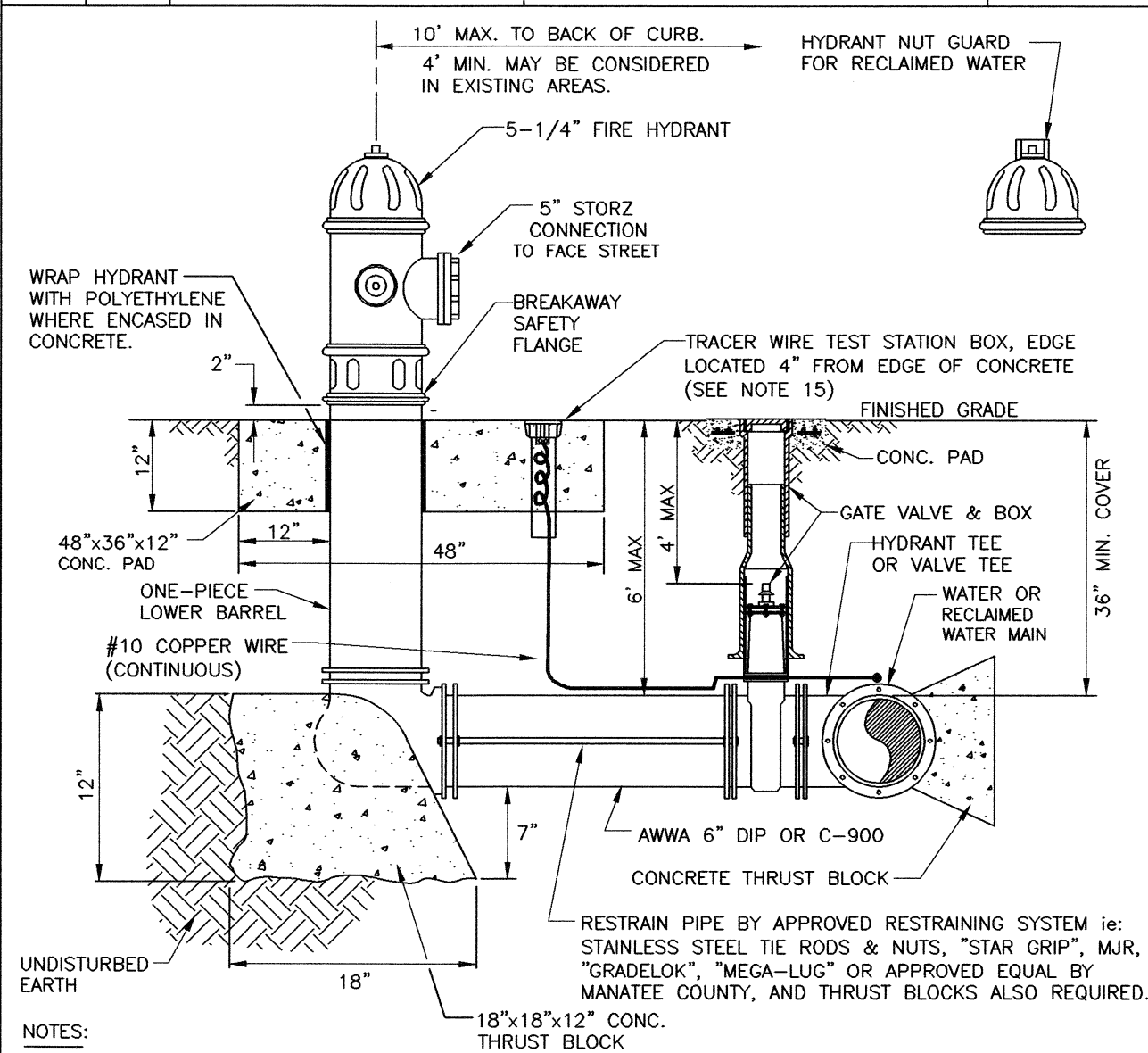
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TAPPING SLEEVE AND VALVE	UW-4 PAGE 122
REV. BY	DATE		
CLB/KE	11/10		
MAY 10, 2011 DATE OF APPROVAL			

NOTES:

1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV/BY	DATE		
WRT/KE	03/11		
MAY 10, 2011 DATE OF APPROVAL			



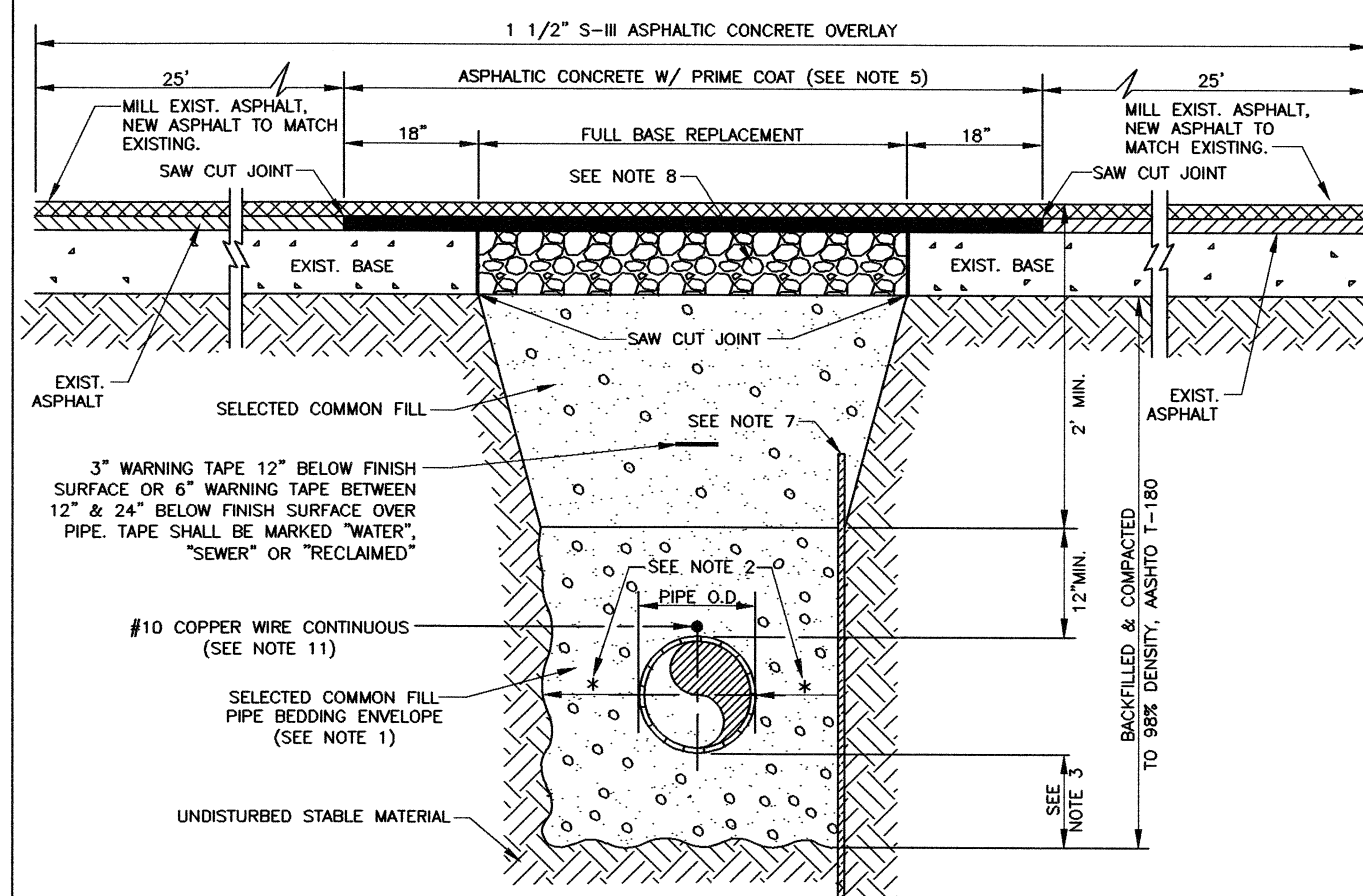
NOTES:

1. WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6" OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB, WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
3. FIRE HYDRANTS SHALL BE COATED WITH EPOXY COATED SAE YELLOW FOR WATER AND PURPLE (PANTONE 522C) FOR RECLAIMED WATER. HYDRANT VALVE SHALL BE DUCTILE IRON CONSTRUCTION.
4. FIRE HYDRANTS SHALL BE SIGNED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
6. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD.
7. RAISED REFLECTIVE PAVEMENT MARKER (BLUE) FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER. SHALL BE INSTALLED AT CENTERLINE OF PAVEMENT ADJACENT TO EACH HYDRANT.
8. PRECAST CONCRETE THRUST BLOCKS & PADS SHALL NOT BE USED.
9. ALL EXPOSED ENDS OF CONCRETE SHALL HAVE CHAMFER.
10. FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
11. IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
12. HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER MAIN UNLESS OTHERWISE APPROVED.
13. HYDRANTS THAT ARE LOCATED ON BOTH SIDES OF ROAD AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC, PER THE FLORIDA FIRE PREVENTION CODE.
14. SEE STANDARD DETAIL SAE WATER BOX, IDB AND TAG.
15. PER THE FIRE HYDRANT PREVENTION CODE, THE PAVEMENT OVERLAP OF THE SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.

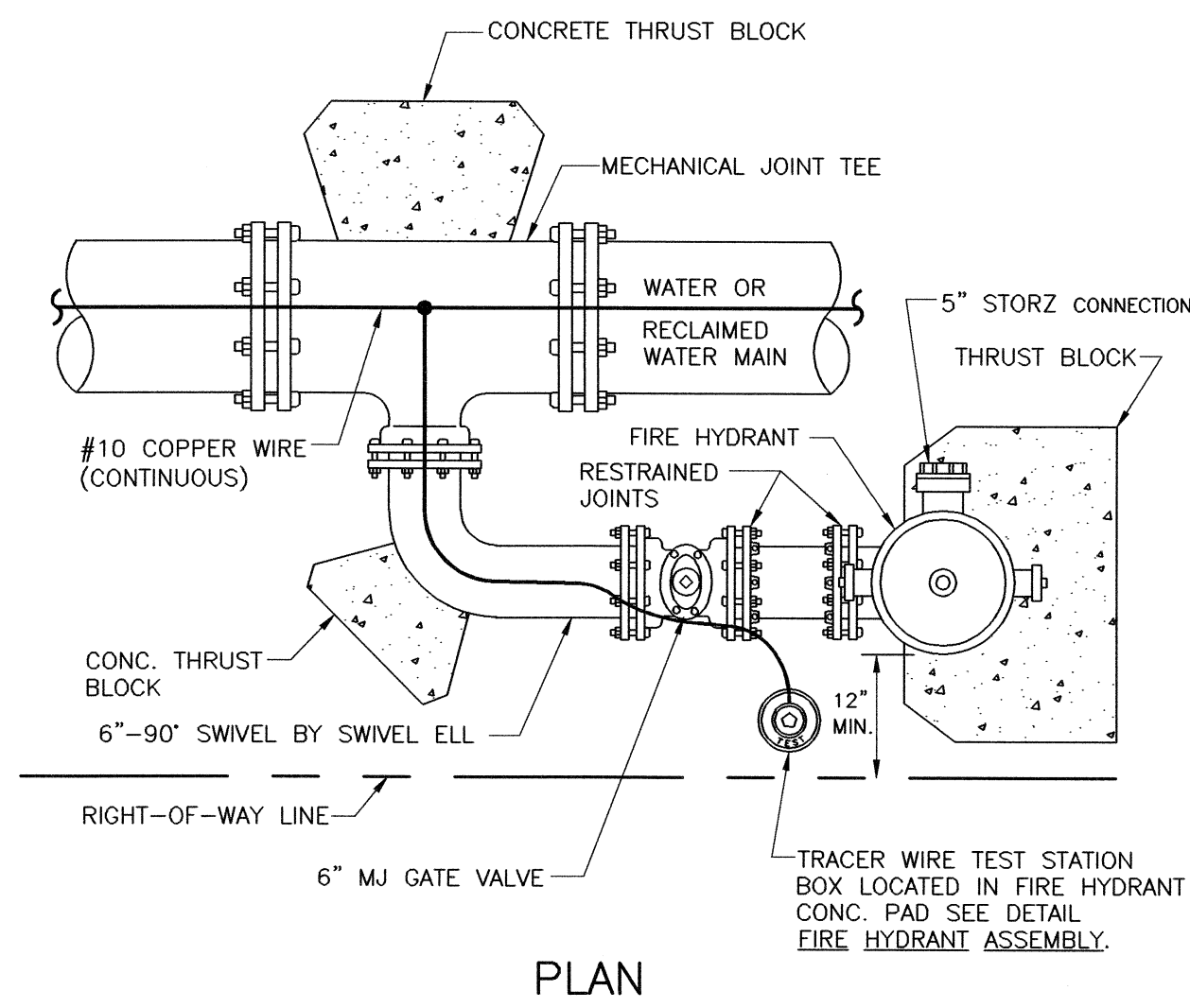
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	UW-5
REV. BY	DATE		
CLB/KE	11/10		
MAY 10, 2011 DATE OF APPROVAL		PAGE 123	

NOTES:

1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1 1/4 INCH, WHICHEVER IS GREATER.
6. MILL 25' BACK FROM TRENCH SAW CUT. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUT TO NOT EXCEED ASPHALT 1" FINAL OVERLAY LIMITS ARE FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
8. BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE.
9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
12. NOTES 5 THRU 10, ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-12
REV. BY	DATE		
WRT/KE	03/11		
MAY 10, 2011 DATE OF APPROVAL			



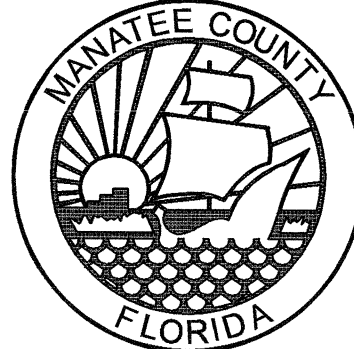
PLAN

NOTE:

1. THIS DETAIL FOR USE ONLY WHEN THE WATER MAIN IS LOCATED TOO CLOSE TO THE RIGHT-OF-WAY LINE TO USE THE FIRE HYDRANT ASSEMBLY DETAIL.
2. SEE STANDARD DETAIL GATE VALVE, BOX, LID AND TAG

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT WITH LOCKED 90° BEND	UW-6
REV. BY CLB/KE	DATE 11/10 MAY 10, 2011 DATE OF APPROVAL		

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1022 26th Avenue East
Bradenton, FL 34208

GARDEN HEIGHTS WATER LINE REPLACEMENT DETAILS

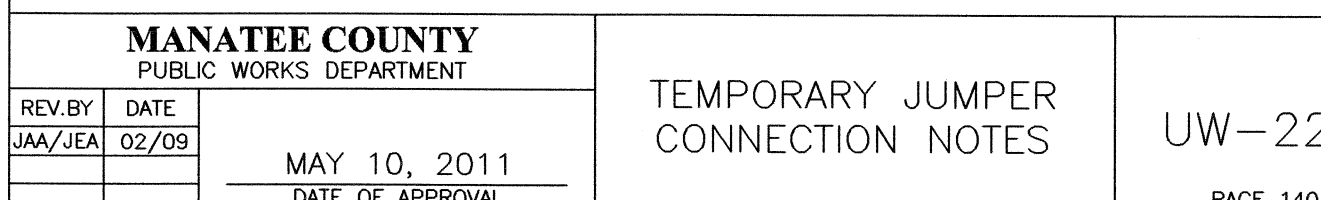
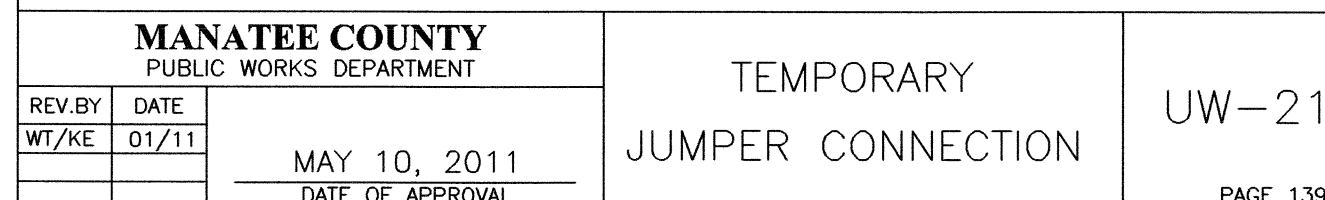
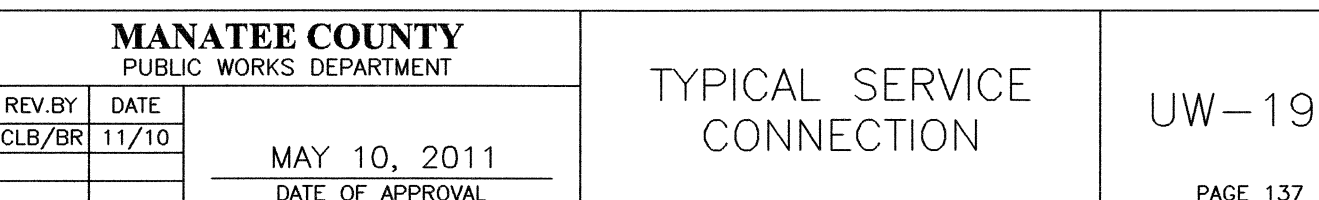
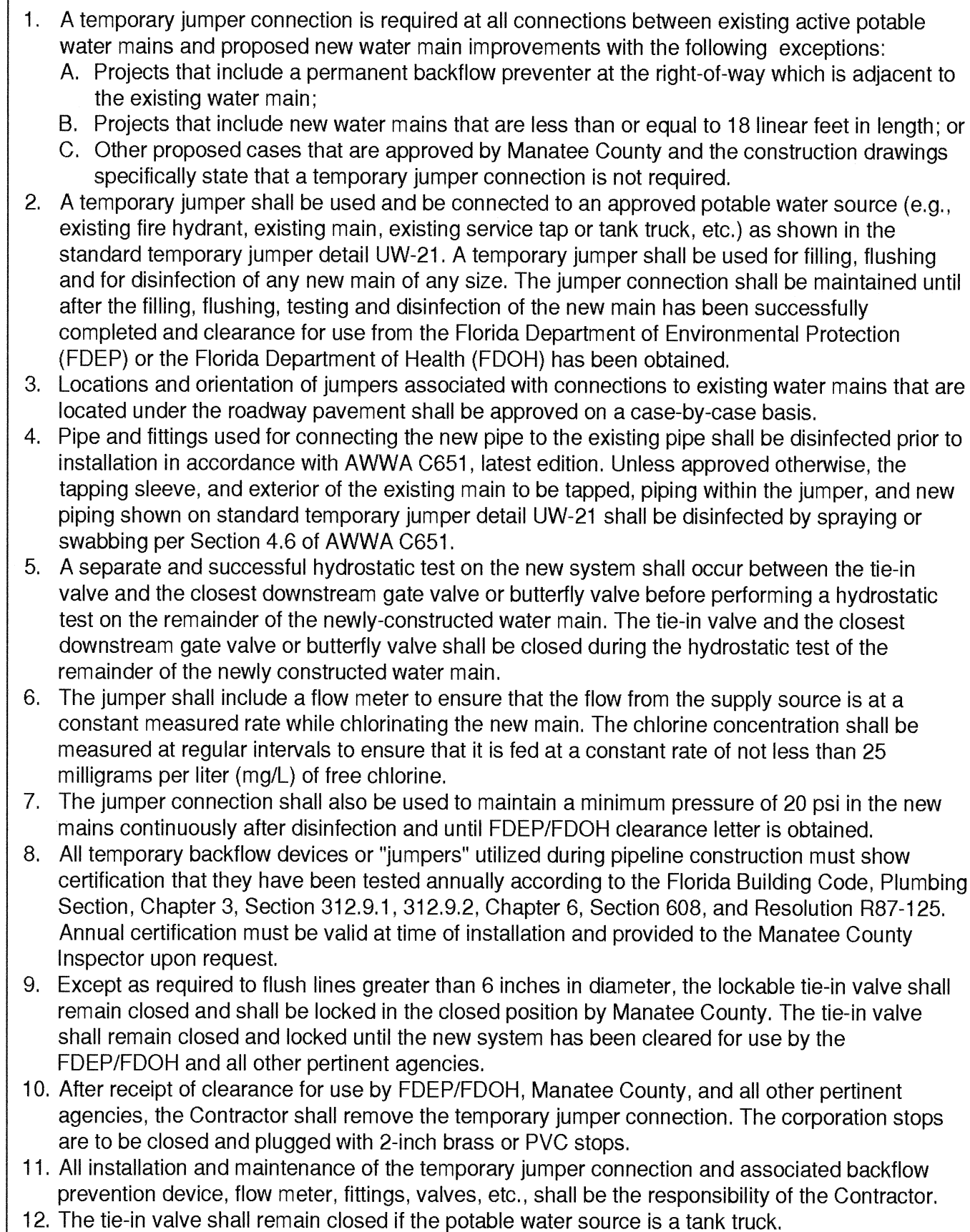
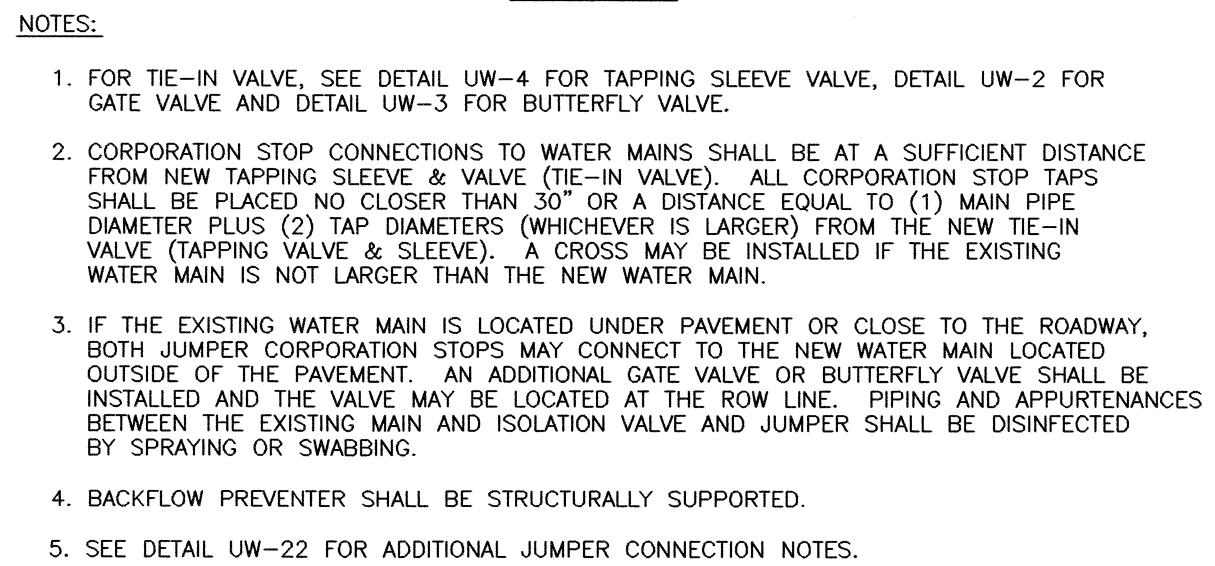
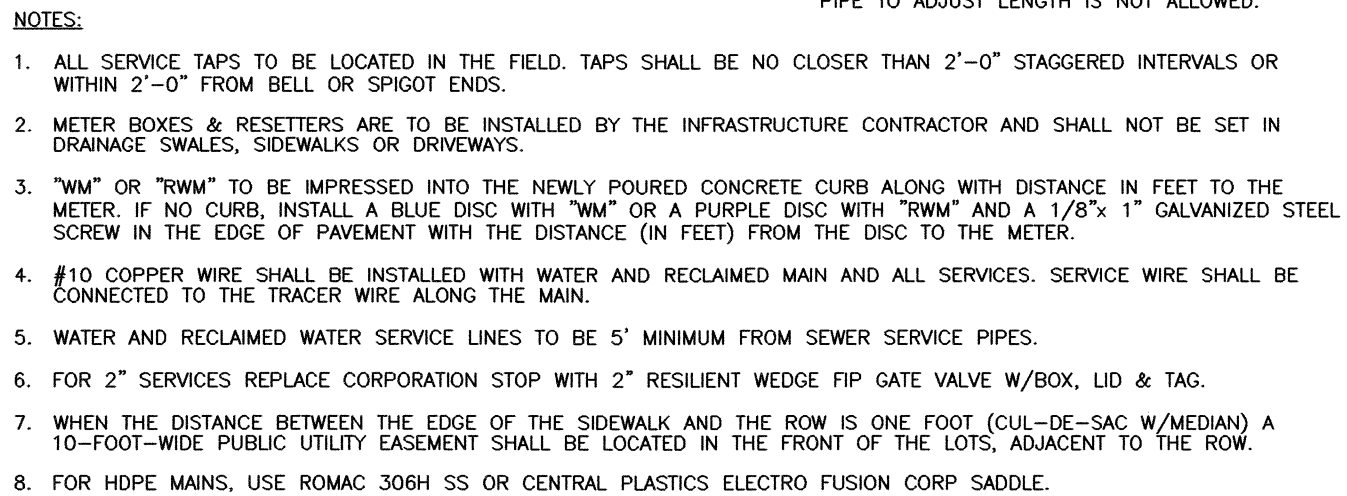
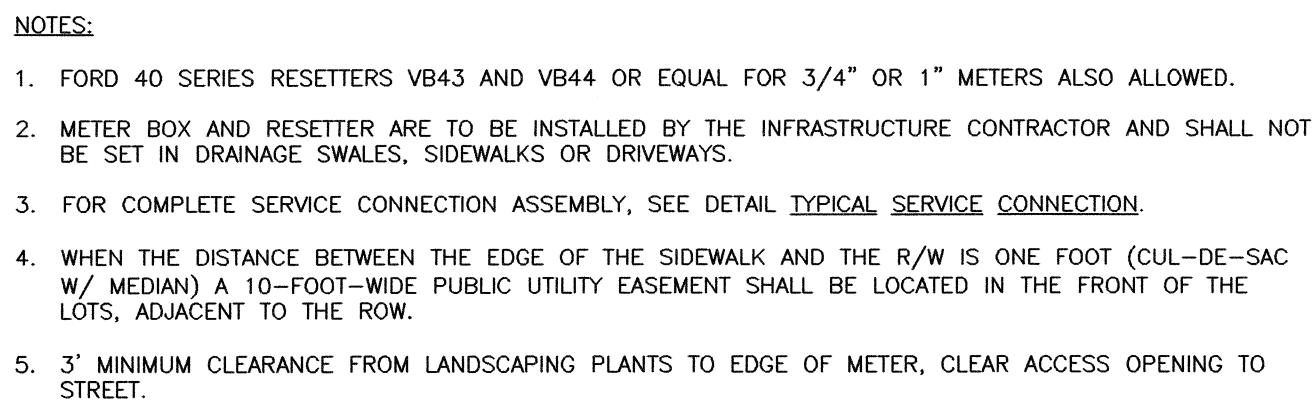
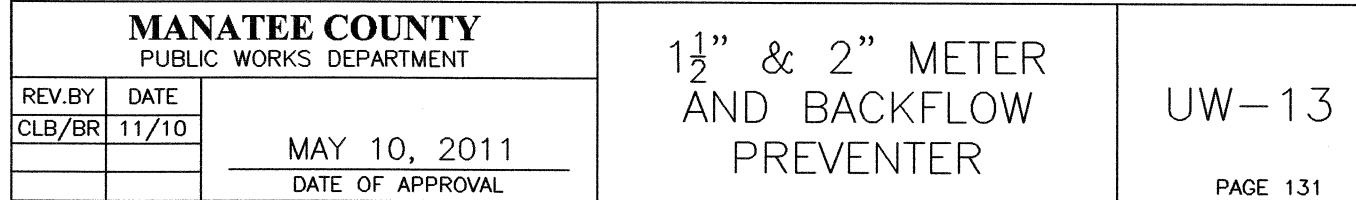
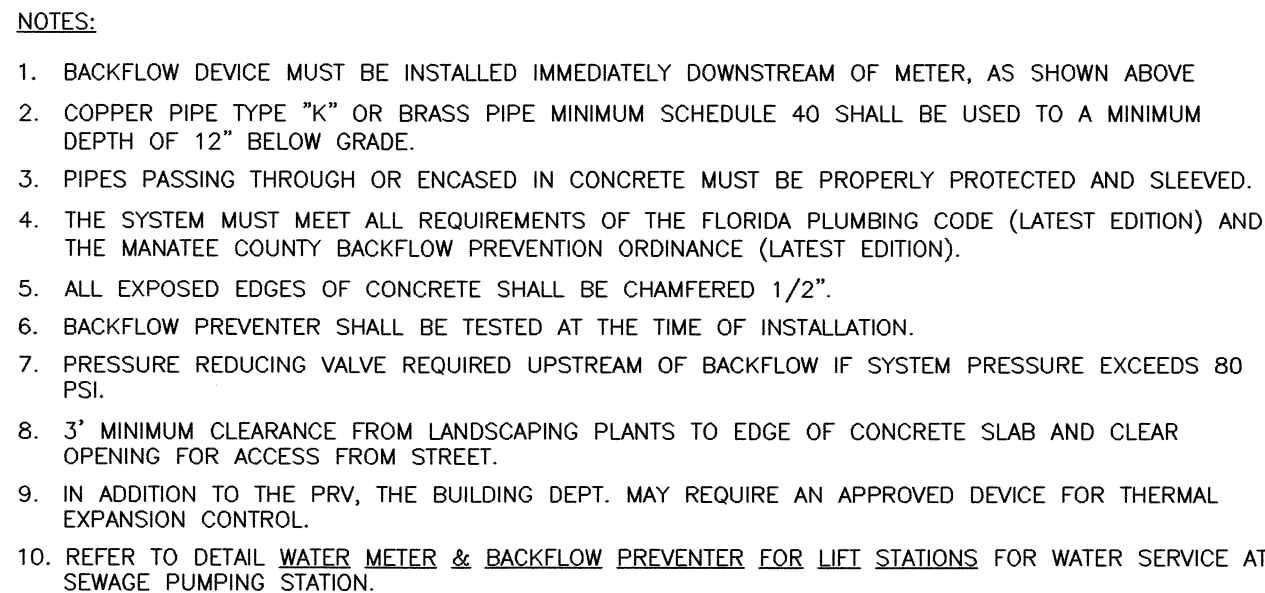
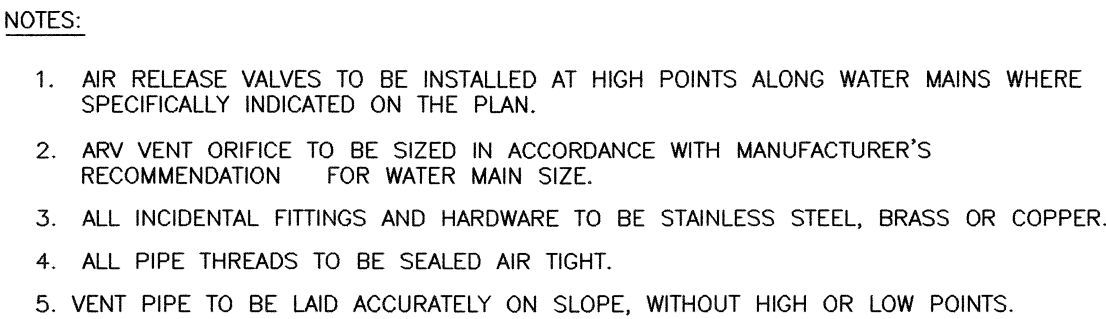
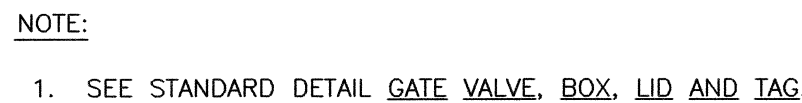
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PROJECT #	404-6085170
SURVEY #	13-1759
SEC./TWN./RGE	03/35S/17E
SCALE	1"=20'

	BY	DATE
SURVEYED	HYATT	04/2013
DESIGNED	JSS	06/2013
DRAWN	BLR	06/2013
CHECKED	-----	-----

JAMES STOCKWELL, P.E.





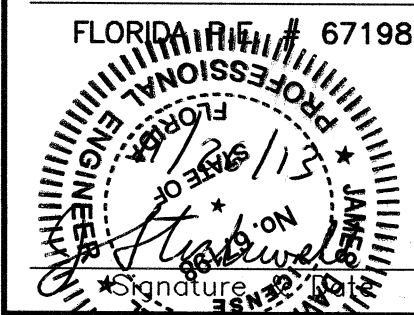
1022 26th Avenue East
Bradenton, FL 34208

GARDEN HEIGHTS WATER LINE REPLACEMENT DETAILS

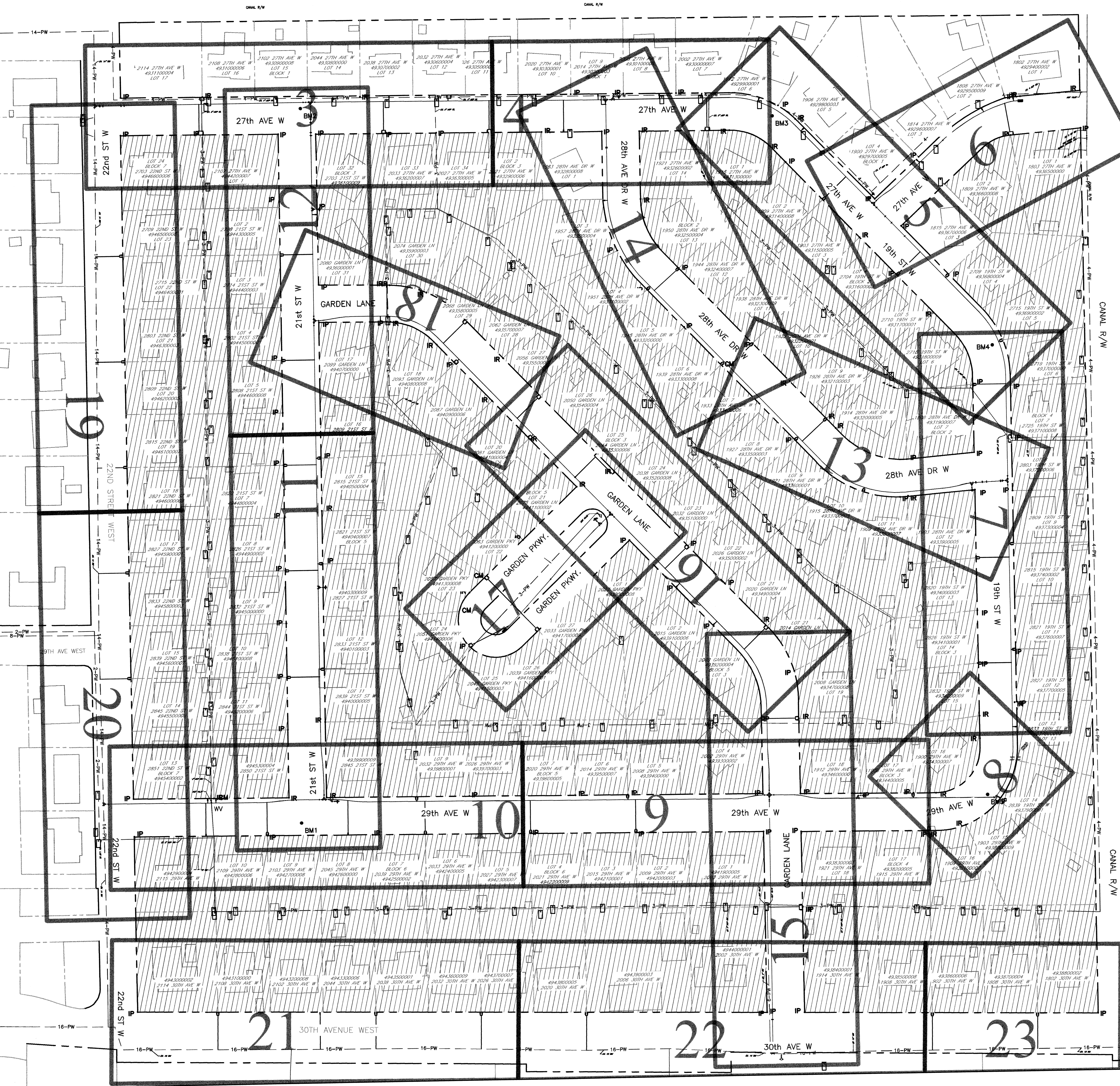
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CHECKED	---	---

JAMES STOCKWELL, P.E.



**GARDEN HEIGHTS
WATER LINE REPLACEMENT
WATER SERVICE INSTALLATIONS ON
PRIVATE PROPERTY**

[illegible]

- | | |
|---|--|
|  | PROPOSED WATER METERS |
|  | EXISTING WATER METERS AS FOUND BY SURVEYOR |
|  | PARCELS W/EXISTING WATER METERS LOCATED IN REAR OF PROPERTY TO BE RELOCATED TO FRONT OF PROPERTY IN PUBLIC ROW |

23

1. CONTRACTOR SHALL INSTALL PRIVATE WATER SERVICES ON 142 LOTS INDICATED HERON FROM EXISTING METER BOX TO PROPOSED WATER METER OR AS DIRECTED BY COUNTY ENGINEER.
2. REFER TO SPECIFICATION SECTION 02590 FOR ADDITIONAL INFORMATION AND REQUIREMENTS
3. WHERE PROPOSED WATERLINE IS WITHIN 10FT OF SANITARY SEWER OR 6FT OF FORCEMAIN (HORIZONTAL DISTANCE) ALL JOINTS MUST BE RESTRAINED IN ACCORDANCE WITH MANTEE COUNTY UTILITY STANDARDS OR APPROVED EQUAL.
4. CONTRACTOR SHALL CONNECT ALL EXISTING WATER SERVICES FROM EXISTING METER BOXES TO PROPOSED NEW METER BOXES UNLESS NOTED OTHERWISE. WHERE EXISTING METER BOXES ARE ON PRIVATE PROPERTY, THE CONTRACTOR SHALL INSTALL (MIN. 1" DIA. OR LARGER WHERE REQUIRED BY PLUMBING CODE) PVC SCHD 40 SERVICE LINE FROM THE EXISTING METER BOX TO THE NEW METER BOX ALONG A ROUTE AGREED TO BY THE PROJECT REPRESENTATIVE AND THE PROPERTY OWNER. THE COUNTY REQUIRES ALL WORK ON PRIVATE PROPERTY TO BE INSTALLED BY A PLUMBER LICENSED IN MANATEE COUNTY. ALL WORK SHALL MEET THE FLORIDA BUILDING CODE AND MANATEE COUNTY UTILITY STANDARDS AND CODES. TYP.
5. CONTRACTOR SHALL REMOVE AND REINSTALL METERS AS DIRECTED AND INSTALL NEW METERS, SUPPLIED BY COUNTY, FOR 25 ADDRESSES.
6. CONTRACTOR SHALL REMOVE ABANDONED HYDRANTS, VALVES AND METER BOXES AND DELIVER SALVAGED HYDRANTS TO UTILITY DEPT. STAFF AT 66TH STREET OFFICE AS DIRECTED.

1. MANATEE COUNTY BENCHMARK "131-29-07" WAS RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN (NGVD 29 ELEVATION 15.727'). A VALUE OF $-0.94'$ SHOULD BE APPLIED TO ALL ELEVATIONS FOR A CONVERSION TO NAVD 88 DATUM.
2. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT).
3. THE LOCATION OF THE RIGHT-OF-WAY LINES SHOWN HEREIN ARE APPROXIMATE. THEY ARE THE RESULT OF FOUND BOUNDARY MONUMENTATION TOGETHER WITH INFORMATION CONTAINED ON A PLAT ENTITLED "GARDEN HEIGHTS" RECORDED AMONG THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA. THIS IS NOT A BOUNDARY SURVEY.
4. EVERY EFFORT WAS MADE TO LOCATE ALL WATER METERS WITHIN THE GARDEN HEIGHTS SUBDIVISION. DUE TO ACCESSIBILITY ISSUES AND GROUND COVER, THERE MAY BE ADDITIONAL METERS THAT WERE NOT LOCATED.
5. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.
6. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTE AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.

DESIGNATION	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	ELEVATION
BM 1	PKD # 7203	28+14.28	8.68' L	1142018.328	467198.892	18.61'
BM 2	PKD # 7203	2+64.62	8.68' L	1142965.711	467213.018	20.12'
BM 3	PKD # 7203	8+89.67	9.08' L	1142944.888	467839.997	18.69'
BM 4	PKD # 7203	13+06.96	9.30' L	1142636.443	468127.826	17.80'
BM 5	PKD # 7203	19+00.31	8.76' L	1142040.369	468111.611	17.29'

[illegible]

SHEET 14 OF 27

