EXISTING SPOT GRADE

PROPOSED STORM PIPE

PROPOSED STORM INLET

PROPOSED STORM MANHOLE

PROPOSED ±1,506 LF OF EXFILTRATION TRENCH 380 LF DRY EXFIL

1126 LF EXFIL

SLOPES

SPOT GRADE (NAVD)

TOP OF GRATE (NAVD) TG X.XX'-

LAKE TOP OF BANK

PROPOSED SIDEWALK

EXISTING SIDEWALK

CROSS-SECTIONS SEE SHEETS C-301 AND C-302

MATERIAL NOTES:

CONCRETE DRIVEWAYS ON PRIVATE PROPERTY WILL BE 5-INCH THICK, 3,000 PSI WITH FIBER MESH WHILE THE PORTION OF THE DRIVEWAY LOCATED WITHIN THE ROW (OUTSIDE OF THE PROPERTY LINES) WILL BE A MINIMUM OF 6 INCHES THICK, 3,000 PSI, WITH NO METAL OR FIBER MESH AND WILL BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND SIDEWALK. THE ENTIRE DRIVEWAY WILL MAINTAIN CONTROL JOINTS LOCATED EVERY 250 SQ.FT AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.

PAVER DRIVEWAYS REQUIRE A MINIMUM 2 3/8TH INCH PAVERS PLACED OVER A 1-1/2 INCH SAND BASE AND COMPACTED SUBBASE. IN ADDITION TO A MINIMUM 6-INCH EDGE RESTRAINT (CONCRETE BORDER) IS REQUIRED AROUND PERIMETER TO INTERLOCK PAVERS. THE DRIVEWAY IS TO BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.

ASPHALT DRIVEWAY IS REQUIRED TO BE A MINIMUM 6-INCH LIMEROCK BASE, TACK COAT, AND 1-INCH LAYER OF S-III ASPHALT, THE DRIVEWAY IS TO BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.

DRAINAGE INFORMATION:

THE PROPOSED DRAINAGE SYSTEM FOR THE BUILDING IS AS FOLLOWS:

ROOF DRAINS WILL TIE DIRECTLY INTO THE UNDERGROUND CONCRETE STORAGE VAULT UNDER THE BUILDING FLOOR.

THE EXFILTRATION TRENCH WILL TREAT THE WATER THEN IT WILL GO BACK THROUGH THE BUILDING AND DISCHARGE INTO THE EXISTING LAKE.

THE EXACT SYSTEM DRAINAGE UNDERNEATH THE BUILDING WILL BE DESIGNED AS PART OF THE STRUCTURAL FOUNDATION SYSTEM BUT WILL HAVE A MINIMUM OF 1.25 ACRE-FEET OF STORAGE BASED ON THE CALCULATIONS.

HISTORICAL DRAINAGE PATTERNS ARE BEING PRESERVED ALONG N. 26TH AVE. ANY ADDITIONAL RUNOFF FROM N 26 AVE WILL BE COLLECTED AND TREATED THROUGH A CURB INLET IN THE GUTTER LINE AT THE NORTH WEST CORNER OF THE BUILDING.

ADA NOTE

ANY LIP FROM 1/4" BUT NOT GREATER THAN 1/2" WILL BE BEVELED TO MEET ADA REQUIREMENTS ALONG ALL SIDEWALKS AND ADA PATHS

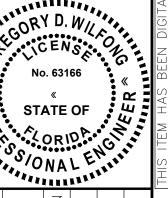
PAVING, GRADING AND DRAINAGE NOTES:

- TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. ALL MATERIALS AND CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST DESIGN
- STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR THE AUTHORITY HAVING JURISDICTION. 6. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY
- REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE
- EXISTING DRAINAGE PIPES AND INLETS TO BE JET CLEANED AND VACUUMED TO REMOVE ALL SILT AND DEBRIS. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION, IF APPLICABLE. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT, IF APPLICABLE.
- 12. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER", IF APPLICABLE.
- ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES, IF APPLICABLE. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT, IF APPLICABLE.
- 15. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- 16. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED
- 17. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW-CUT
- THE FULL DEPTH OF PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED. 19. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH
- OF EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED. 20. CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A
- MINIMUM OF 30" OR AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 4" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
- 21. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER-COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 22. ALL CUT OR FILL SLOPES SHALL BE 4H:1V OR FLATTER UNLESS OTHERWISE NOTED. 23. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL.
- CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- 24. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- LANDSCAPE ISLANDS IN PARKING AREA TO BE BERMED MINIMUM OF 6" ABOVE BACK OF CURB ELEVATION.
- SEE LANDSCAPE PLAN FOR TREE REMOVAL AND PLANTING. ADA RAMPS SHALL NOT EXCEED 6' IN LENGTH AND 6" IN RISE (8.33% SLOPE MAX).
- CONTRACTOR TO FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES AND IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS WITH SIGNAGE FOUNDATIONS
- ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE. ELEVATIONS ARE BASED ON NAVD88 DATUM DETERMINED BY GPS OBSERVATIONS, PROVIDED BY SURVEYOR
- 31. TYPE C INLETS TO BE MODIFIED FOR H-20 TRAFFIC RATING. 32. FDOT DITCH BOTTOM INLETS TO BE MODIFIED FOR H20 TRAFFIC RATING.

RAPHIC SCALE IN FEET

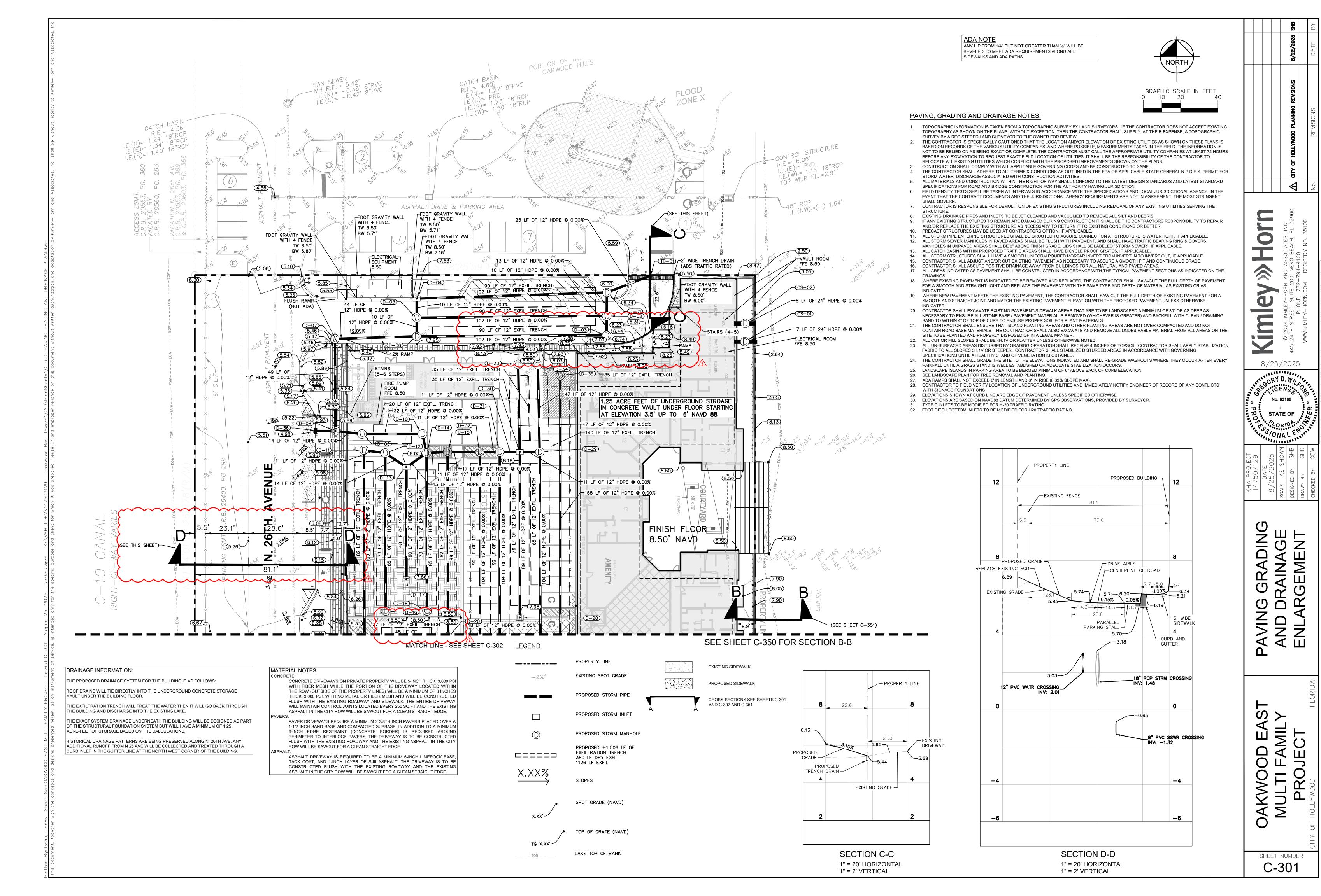
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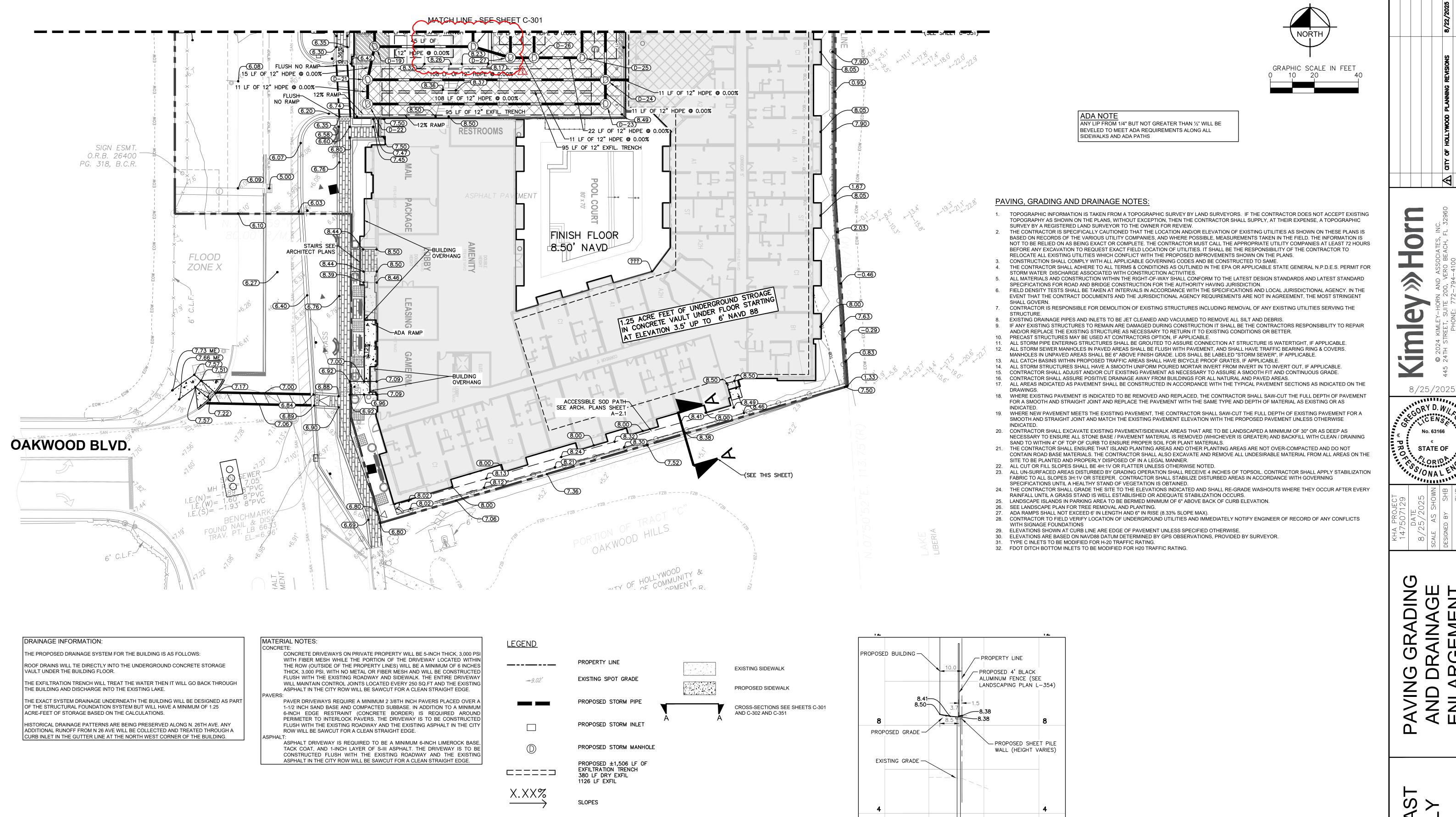
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SECTION A-A

1" = 20' HORIZONTAL 1" = 2' VERTICAL

SPOT GRADE (NAVD)

TOP OF GRATE (NAVD)

LAKE TOP OF BANK

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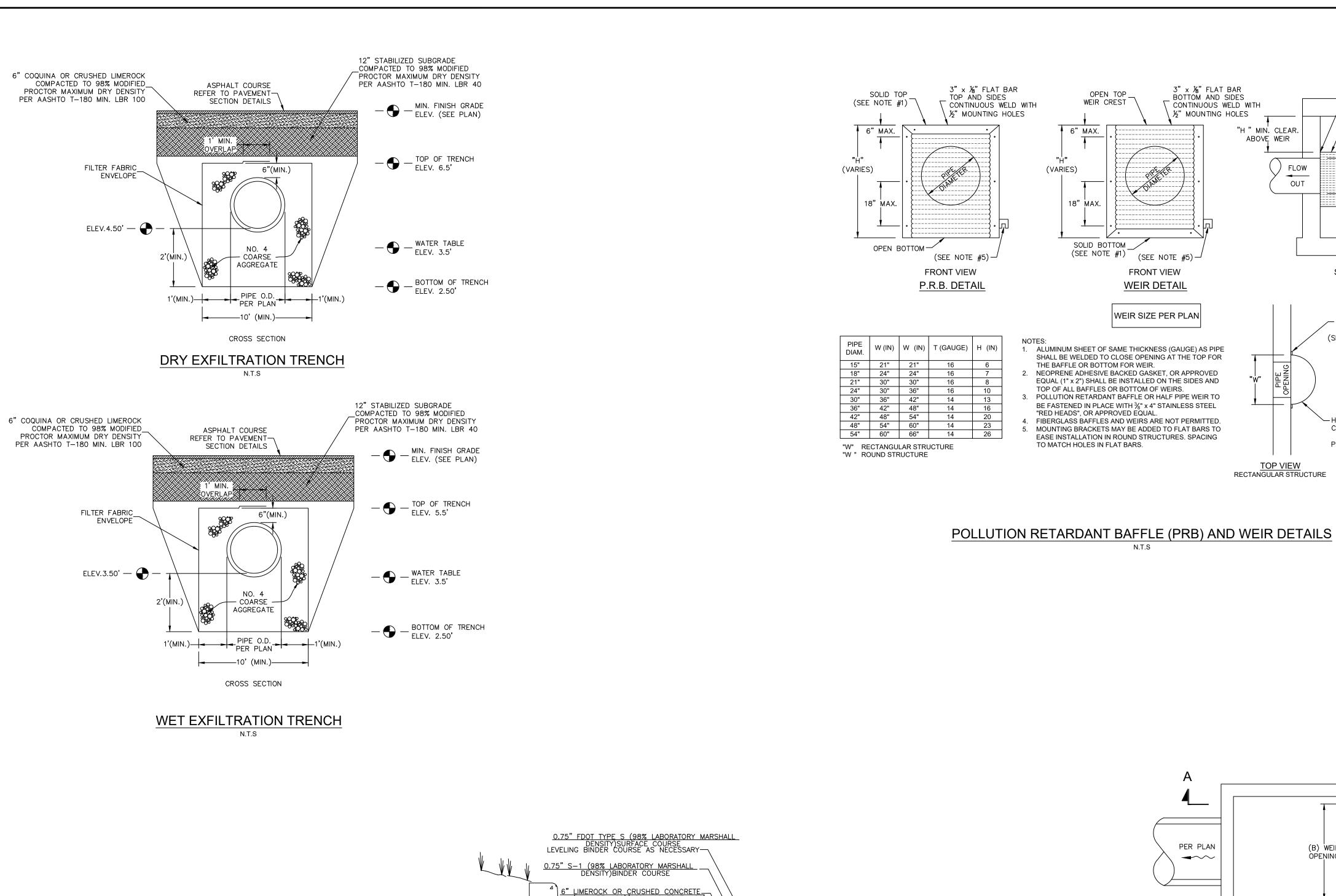
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STRUCTURE TABLE						
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT			
CS-01	CS-01 RIM: 8.33 INV IN: 3.50 INV OUT: 1.00	FROM 48, 24" HDPE INV IN: 3.50 @ 0.00%	TO 50, 24" HDPE INV OUT: 1.00 @ 0.00%			
CS-02	CS-02 RIM: 9.11 INV IN: 3.50 INV OUT: 1.00	FROM 60, 24" HDPE INV IN: 3.50 @ 0.00%	TO 62, 24" HDPE INV OUT: 1.00 @ 0.00%			
D-01	MANHOLE RIM: 6.60 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-04, 12" HDPE INV IN: 3.50 @ 0.00% FROM TD-01, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-02, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-02	MH RIM: 6.48 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-01, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-03, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-05, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-03	MANHOLE RIM: 6.87 INV IN: 3.50 INV OUT: 3.50	FROM D-02, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-06, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-04	CB RIM: 7.63 INV IN: 3.50 INV OUT: 3.50	FROM D-05, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-01, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-05	MH RIM: 8.03 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-06, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-02, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-04, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-06	MANHOLE RIM: 8.33 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-03, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-07, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-05, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-07	MH RIM: 5.74 INV IN: 3.50 INV OUT: 3.50	FROM D-08, 12" HDPE INV IN: 3.50 ❷ 0.00%	TO D-06, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-08	MH RIM: 5.93 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-09, 12" HDPE INV IN: 3.50 ❷ 0.00%	TO D-07, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-36, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-09	MH RIM: 8.40 INV OUT: 3.50 INV OUT: 3.50		TO D-10, 12" HDPE INV OUT: 3.50 © 0.00% TO D-08, 12" HDPE INV OUT: 3.50 © 0.00%			
D-10	MH RIM: 8.29 INV IN: 3.50 INV OUT: 3.50	FROM D-09, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-14, 12" HDPE INV OUT: 3.50 ♥ 0.00%			
D—11	MANHOLE RIM: 8.38 INV IN: 3.50 INV OUT: 3.50	FROM D-19, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-12, 12" HDPE INV OUT: 3.50 ♥ 0.00%			
D-12	MH RIM: 8.21 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-11, 12" HDPE INV IN: 3.50 © 0.00%	TO D-13, 12" HDPE INV OUT: 3.50 © 0.00% TO D-16, 12" HDPE INV OUT: 3.50 © 0.00%			
D-13	CATCH BASIN RIM: 8.05 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-12, 12" HDPE INV IN: 3.50 ♥ 0.00%	TO D-17, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-14, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-14	MH RIM: 8.20 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-13, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-10, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-15, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-18, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-15	MANHOLE RIM: 8.28 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-14, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-20, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-32, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-16	MH RIM: 8.41 INV IN: 3.50	FROM D-12, 12" HDPE INV IN: 3.50 @ 0.00%				
D-17	CATCH BASIN RIM: 7.86 INV IN: 3.50	FROM D-13, 12" HDPE INV IN: 3.50 @ 0.00%				
D-18	MH RIM: 8.40 INV IN: 3.50	FROM D-14, 12" HDPE INV IN: 3.50 @ 0.00%				

STRUCTURE TABLE						
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT			
D-19	MANHOLE RIM: 7.42 INV OUT: 3.50 INV OUT: 3.50 INV OUT: 3.50		TO D-11, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-20, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-21, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-20	MANHOLE RIM: 8.23 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-15, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-19, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-27, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-21	MANHOLE RIM: 7.37 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-22, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-19, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-24, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-22	MANHOLE RIM: 7.35 INV OUT: 3.50 INV OUT: 3.50		TO D-23, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-21, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-23	MANHOLE RIM: 8.43 INV IN: 3.50 INV IN: 3.50	FROM D-22, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-24, 12" HDPE INV IN: 3.50 @ 0.00%				
D-24	MANHOLE RIM: 8.33 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-21, 12" HDPE INV IN: 3.50 © 0.00% FROM D-35, 12" HDPE INV IN: 3.50 © 0.00%				
D-25	MH RIM: 8.17 INV IN: 3.50 INV OUT: 3.50	FROM D-29, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-26, 12" HDPE INV OUT: 3.50 ◎ 0.00%			
D-26	MANHOLE RIM: 8.21 INV IN: 3.50 INV IN: 3.50 INV IN: 3.50	FROM D-31, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-27, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-25, 12" HDPE INV IN: 3.50 @ 0.00%				
D-27	MANHOLE RIM: 8.31 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-20, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-32, 12" HDPE INV OUT: 3.50 @ 0.009 TO D-26, 12" HDPE INV OUT: 3.50 @ 0.009			
D-28	CATCH BASIN RIM: 7.98 INV IN: 3.50	FROM D-30, 12" HDPE INV IN: 3.50 @ 0.00%				
D-29	MH RIM: 8.28 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-30, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-25, 12" HDPE INV OUT: 3.50 @ 0.009 TO D-34, 12" HDPE INV OUT: 3.50 @ 0.009			
D-30	CATCH BASIN RIM: 8.18 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-31, 12" HDPE INV IN: 3.50 ◎ 0.00%	TO D-28, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-29, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-33, 12" HDPE INV OUT: 3.50 @ 0.00%			
D-31	MANHOLE RIM: 8.25 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-32, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-26, 12" HDPE INV OUT: 3.50 © 0.009 TO D-30, 12" HDPE INV OUT: 3.50 © 0.009			
D-32	MANHOLE RIM: 8.29 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-27, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-15, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-31, 12" HDPE INV OUT: 3.50 © 0.00%			
D-33	MH RIM: 8.22 INV IN: 3.50	FROM D-30, 12" HDPE INV IN: 3.50 © 0.00%				
D-34	MH RIM: 8.12 INV IN: 3.50	FROM D-29, 12" HDPE INV IN: 3.50 @ 0.00%				
D-35	MH RIM: 8.33 INV OUT: 3.50		TO D-24, 12" HDPE INV OUT: 3.50 @ 0.009			
D-36	CURB INLET RIM: 6.05 INV IN: 3.50	FROM D-08, 12" HDPE INV IN: 3.50 @ 0.00%				
TD-01	TRENCH DRAIN RIM: 4.60 INV OUT: 3.50		TO D-01, 12" HDPE INV OUT: 3.50 @ 0.00%			

Kimley» Horn DRAINAGE STRUCTURE TABLE

OAKWOOD EAST
MULTI FAMILY
PROJECT



12" STABILIZED SUBGRADE

1.25" FDOT TYPE S (98% LABORATORY MARSHALL DENSITY)SURFACE COURSE LEVELING BINDER COURSE AS NECESSARY—

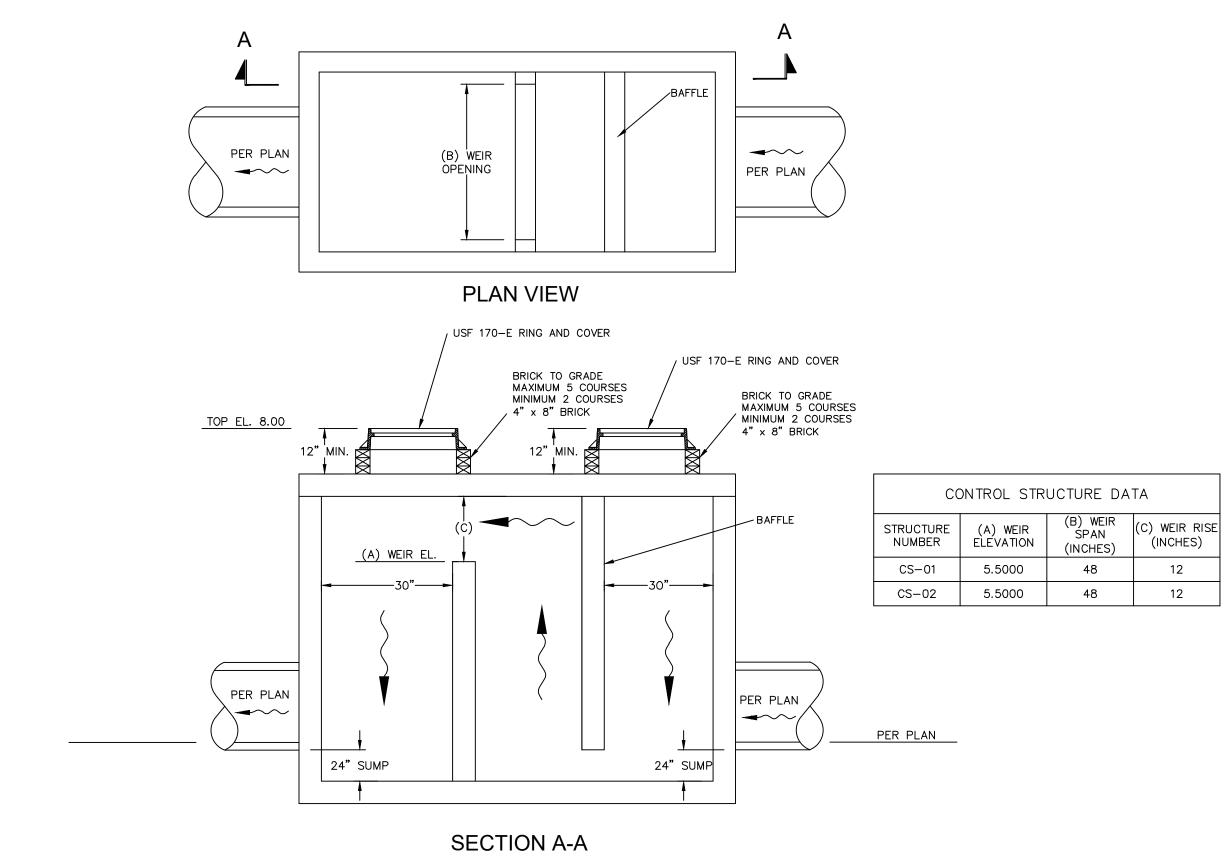
12" STABILIZED SUBGRADE (98% AASHTO T-180)

(98% AASHTO T-180)

STANDARD DUTY ASPHALT PAVING

HEAVY DUTY

ASPHALT PAVING



NEOPRENE

(SEE NOTE #2)

FLOW

-IN

TOP VIEW ROUND STRUCTURE

— GASKET

/ С.А.Р.

∄6" MIN.

18" [']MIN.

SIDE VIEW

– NEOPRENE – GASKET

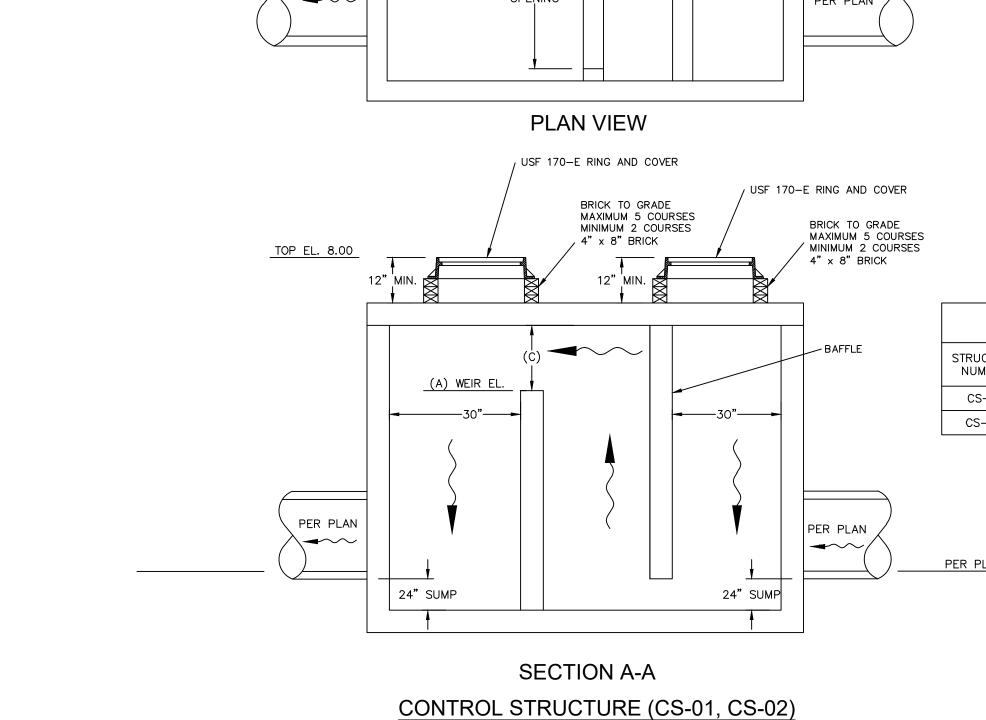
(SEE NOTE #2)

- HALF ROUND -

CORRUGATED

ALUMINUM

PIPE (C.A.P.)



SHEET NUMBER C-351

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Horn

D

GORY D. W//

No. 63166

STATE OF

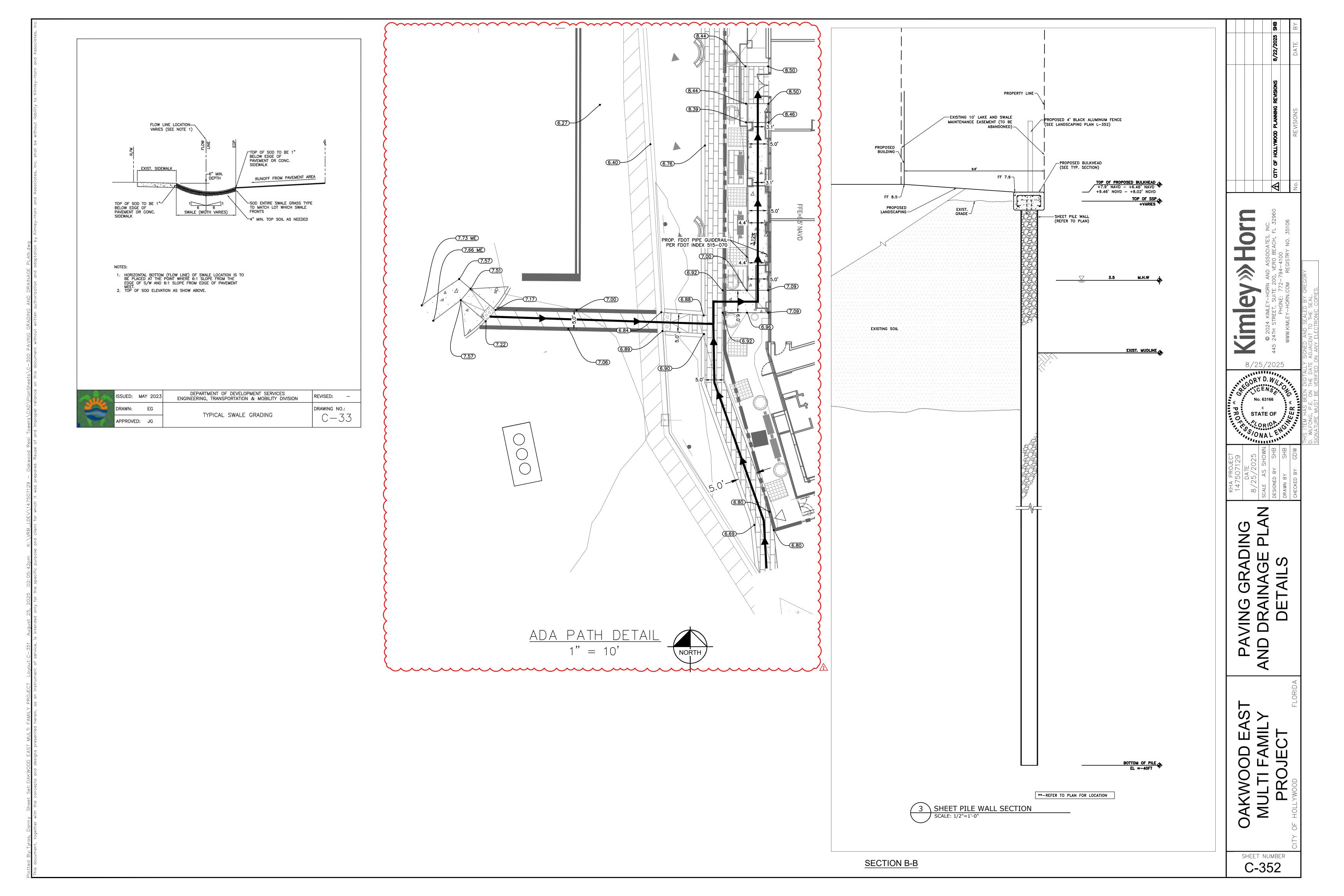
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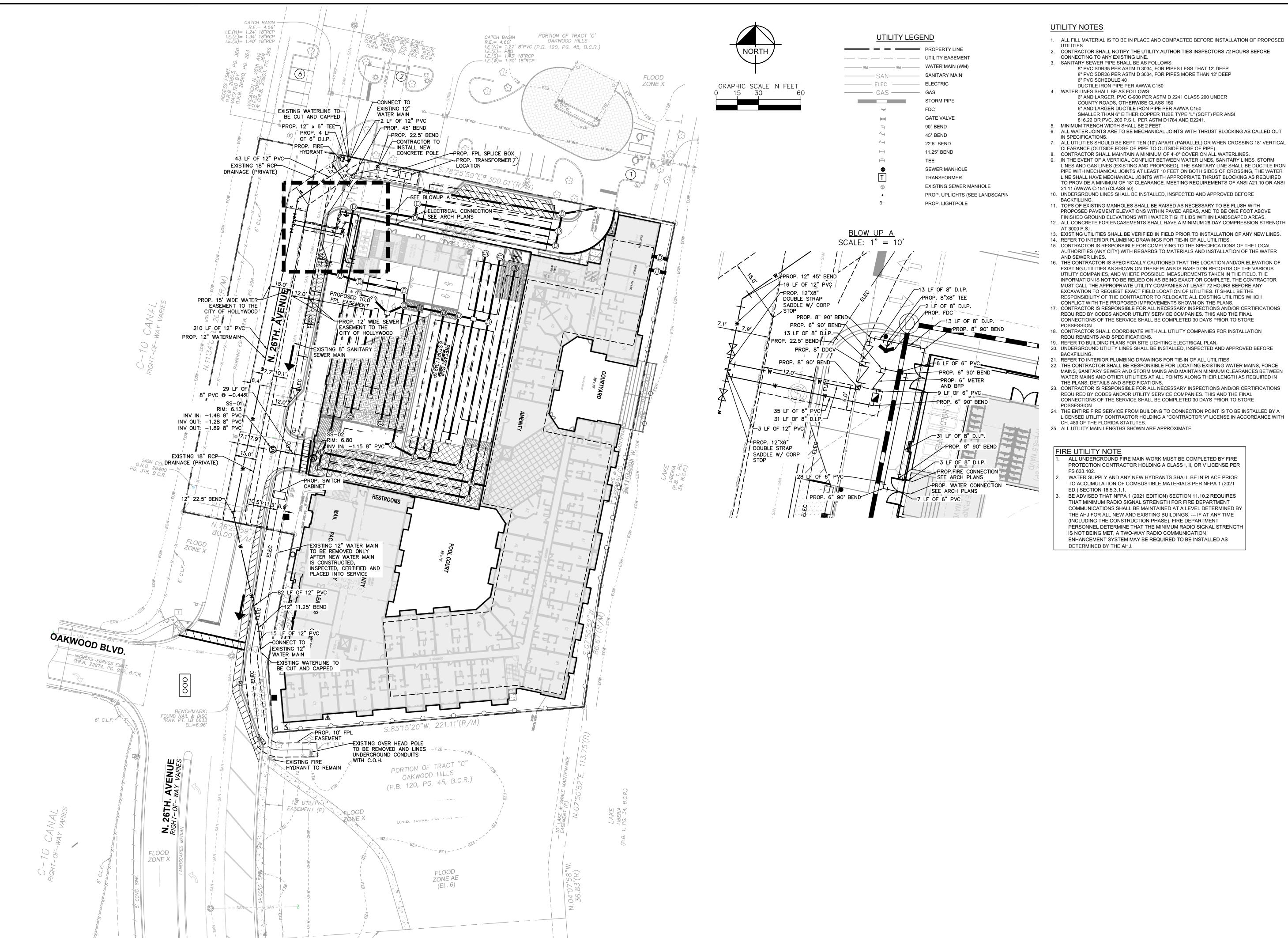
GRADING INAGE PLA

PAVING GRAD AND DRAINAGE

EAS

OAKWOOD





6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT

8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'-0" COVER ON ALL WATERLINES. 9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI

10. UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE

11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH

FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS WITHIN LANDSCAPED AREAS. 12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH

13. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.

16. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY

17. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE

18. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING WATER MAINS, FORCE

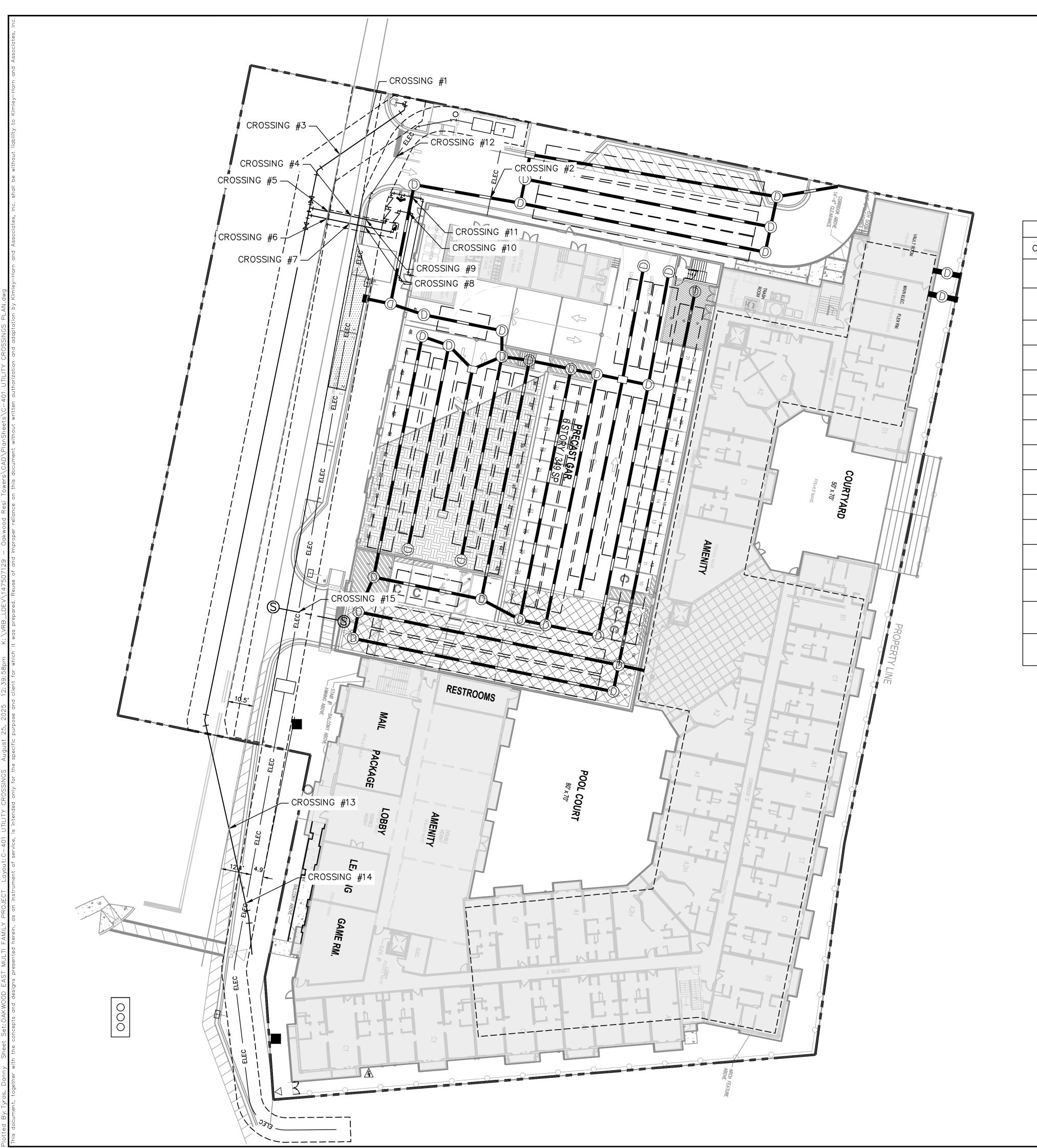
23. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL

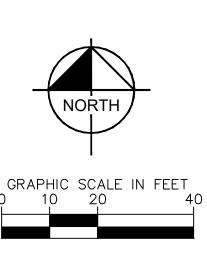
24. THE ENTIRE FIRE SERVICE FROM BUILDING TO CONNECTION POINT IS TO BE INSTALLED BY A

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UTILITY CROSSING TABLE					
CROSSING	UTILITIES	BOTTOM AND TOP EL.			
	12" WATER	4.48			
1	EX. 8" SEWER	-0.17			
	12" STORM	3.48			
2	ELECTRIC	2.48			
7	12" WATER	4.48			
3	EX. 8" SEWER	3.14			
	EX. 8" SEWER	-1.01			
4	12" WATER	-2.11			
E	EX. 18" STORM	1.23			
5	6" WATER	-2.11			
6	EX. 18" STORM	1.23			
	6" WATER	-2.28			
7	EX. 8" SEWER	-1.02			
	6" WATER	-2.28			
8	6" WATER	-2.78			
ŏ	ELECTRIC	-3.78			
0	6" WATER	-2.78			
9	ELECTRIC	-3.78			
10	12" STORM	0.50			
10	6" WATER	-2.28			
11	12" STORM	0.50			
	6" WATER	-2.28			
12	12" STORM	-3.00			
12	ELECTRIC	-4.00			
13	12" WATER	-1.99			
13	8" SEWER	-0.95			
1.4	12" WATER	-1.99			
14	ELECTRIC	-2.99			
15	8" SEWER	-1.23			
15	ELECTRIC	-2.99			

A CITY OF HOLLYWOOD PLANNING REVISIONS

No. REVISIONS

KIMLEY-HORN AND ASSOCIATES, INC.
REET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
EY-HORN.COM REGISTRY NO. 35106

8/25/2025

8/25/2025

No. 63166

STATE OF

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SCALE AS SHOWN
DESIGNED BY GDW
DRAWN BY RL

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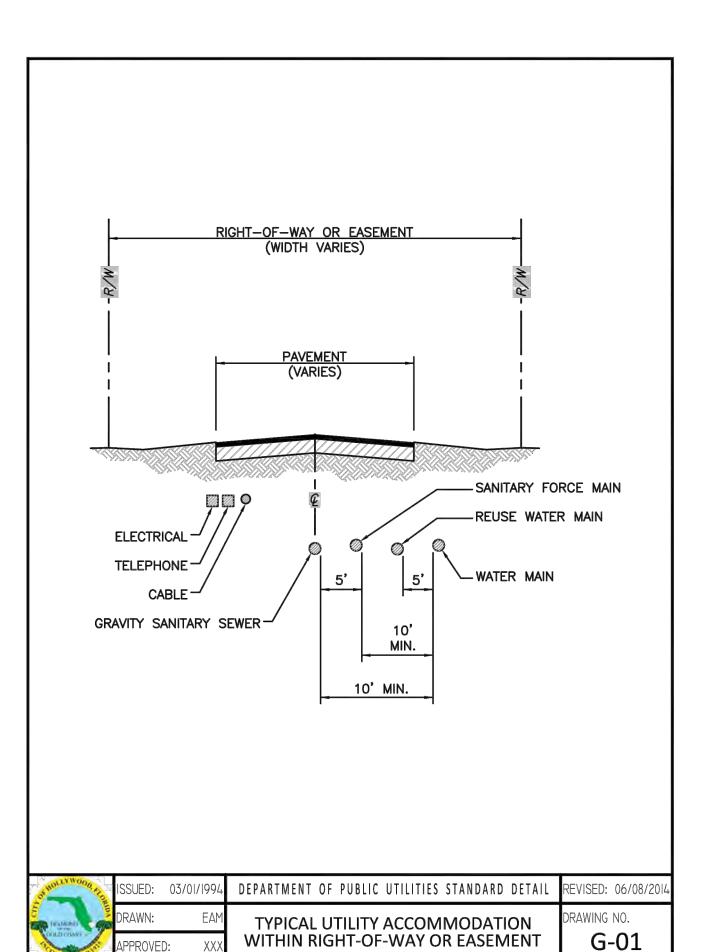
VOOD EAST TI FAMILY ROJECT

OAKWOOL MULTI F/ PROJE

GENERAL NOTES:

- 1. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.
- 2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES, ENGINEERING AND CONSTRUCTION SERVICES DIVISION (ECSD), AND ALL OTHER LOCAL, STATE AND NATIONAL CODES, WHERE APPLICABLE.
- 3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ALIGNMENTS, AND DIMENSIONS OF EXISTING FACILITIES, UTILITIES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS; AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. ALSO, THERE MAY HAVE BEEN OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS AND/OR THE ORIGINAL SITE SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND OTHER FEATURES AFFECTING HIS/HER WORK PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICT BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY FACILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL WORK AS NEEDED TO AVOID CONFLICT WITH EXISTING UTILITIES (NO ADDITIONAL COST SHALL BE PAID FOR THIS WORK). EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE RESPECTIVE UTILITY OWNER.
- 4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES TO ARRANGE FOR THE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT, AND TO ENSURE THAT EXISTING UTILITIES ARE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS APPROVED OTHERWISE BY THE UTILITY OWNER.
- 6. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND-HOLES, PULL-BOXES, STORMWATER INLETS, AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAID WITH ASPHALT PAVEMENT.
- 7. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION.
- 8. THE CONTRACTOR SHALL NOTIFY ECSD AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, SHOP DRAWINGS SHALL BE SUBMITTED TO ECSD IN ACCORDANCE WITH THE CONTRACT DOCUMENT'S REQUIREMENTS, FOR APPROVAL. IN ADDITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER AGENCY SHOP DRAWING APPROVAL, IF REQUIRED.
- 10. THE CONTRACTOR SHALL NOTIFY ECSD IMMEDIATELY FOR ANY CONFLICT ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 11. ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

DRAWN: EAM APPROVED: XXX GENERAL NOTES DRAWING NO. G-00	OF HULLIANOON FILE	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
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GENERAL NOTES (CONTINUED):

- 12. CITY OF HOLLYWOOD SHALL NOT PROVIDE STAGING / STORAGE AREA. CONTRACTOR SHALL SECURE STAGING / STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK.
- 13. CONTRACTOR SHALL HAUL AWAY EXCESSIVE STOCKPILE OF SOIL FOR DISPOSAL EVERY DAY. NO STOCKPILE SOIL IS ALLOWED TO BE LEFT ON THE CONSTRUCTION SITE OVER NIGHT.
- 14. CONTRACTOR SHALL CLEAN / SWEEP THE ROAD AT LEAST ONCE DAY OR AS REQUIRED BY THE ENGINEER.
- 15. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN / ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY NPDES REGULATIONS.
- 16. THE CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH PROHIBITS EXCAVATION AND CONSTRUCTION BEFORE 8:00 A.M. AND AFTER 6:00 P.M., MONDAY THROUGH SATURDAY AND ALL DAY
- 17. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK,
- 18. ALL ROAD CROSSINGS ARE OPEN CUT AS PER THE REQUIREMENTS OF THE ECSD UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 19. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, PARKING LOTS, SIDEWALKS, ETC. TO SATISFY THE INSTALLATION OF THE PROPOSED IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY ECSD FIELD
- 20. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT. IN CASE WORK ON PRIVATE PROPERTY IS NEEDED, A CITY OF HOLLYWOOD "RIGHT OF ENTRY" FORM MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF PUBLIC UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED TO ANY IRRIGATION SYSTEM (PRIVATE OR PUBLIC) ACCIDENTALLY OR PURPOSELY. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO
- 22. MAIL BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITION.
- 23. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT STANDARDS AND CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES STANDARDS.
- 24. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE ECSD FIELD ENGINEER.
- 25. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY TREE REMOVAL OR RELOCATION PERMITS FROM THE CITY OF HOLLYWOOD BUILDING DEPARTMENT FOR TREES LOCATED IN THE PUBLIC RIGHT OF WAY.
- 26. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY STANDARDS / REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ECSD.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DRAWN: EAM	GENERAL NOTES	DRAWING NO.
APPROVED: XXX	(CONTINUED)	G-00.1

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSING (1), (4)	JOINT SPACING @ CROSSING (FULL JOINT CENTERED) (8)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)	3 ft minimum	WATER MAIN 12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inched is preferred	Alternate 3 ft minimum
GRAVITY SANITARY SEWER, (3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER	WATER MAIN 10 ft prefered 6 ft minimum	WATER MAIN 12 inches is the minimum except for gravity sewer, then 6 inches is the minimum and 12 inched is preferred	Alternate 6 ft minimum WATER MAIN
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft minimum		

- WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
 RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- 3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
- 18" VERTICAL MINIMUM SEPARATION REQUIRED BY CITY OF HOLLYWOOD, UNLESS OTHERWISE APPROVED.
 A MINIMUM 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID

IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN A PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A

MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE

- WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
 ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALY RESTRAINED.
- ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 11/06/2017

 DRAWN: EAM SEPARATION REQUIREMENTS OF F.D.E.P.

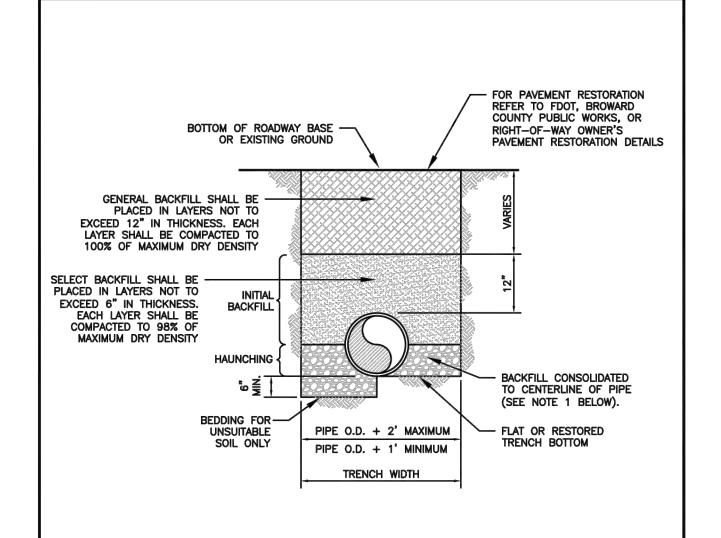
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GENERAL NOTES (CONTINUED):

- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS TO EXISTING PAVEMENT, SIDEWALKS, PIPES, CONDUITS, CURBS, CABLES, ETC., WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
- 28. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS.
- 29. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPENED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DIRECTED. ALL TRENCHES SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN / VEHICULAR TRAFFIC.
- 30. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 31. ALL DUCTILE IRON PRODUCTS SHALL BE DOMESTIC MADE HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 20,000 LB.
- 32. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST REVISION OF FDOT DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE REMOVED DURING THE CONSTRUCTION PERIOD.
- 34. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
- 35. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN.
- ${\bf 36.} \ \ {\bf CONTRACTOR} \ {\bf MUST} \ {\bf PROVIDE} \ {\bf FLASHER} \ {\bf ARROW} \ {\bf SIGNAL} \ {\bf FOR} \ {\bf ANY} \ {\bf LANE} \ {\bf THAT} \ {\bf IS} \ {\bf CLOSED} \ {\bf OR} \ {\bf DIVERTED}.$
- 37. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF TRAFFIC DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES.
- 38. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DEWATERING PER SPECIFICATION SECTION 02140 DEWATERING.

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NOTES:

- 1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR DRAINFIELD LIMEROCK). CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB—ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER DELETERIOUS MATERIALS.
- 2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION
- SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".

 3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.

 4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARDS 125-8.
- ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2
 DRAWN: EAM PIPE LAYING CONDITION TYPICAL DRAWING NO.

SECTION (D.I.P.)

G-02

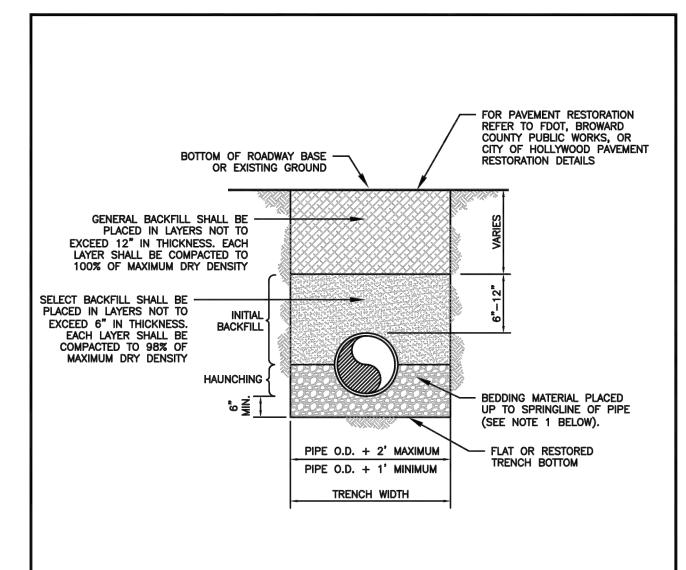
GENERAL NOTES (CONTINUED):

40. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE TO UTILITY COMPANIES TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 811 OR 1-800-432-4770 (SUNSHINE ONE-CALL OF FLORIDA).



- 41. WHEN PVC PIPE IS USED, A METALLIZED MARKER TAPE SHALL BE INSTALLED CONTINUOUSLY 18"
 ABOVE THE PIPE. THE MARKER TAPE SHOULD BE IMPRINTED WITH A WARNING THAT THERE IS
 BURIED PIPE BELOW. THE TAPE SHALL BE MAGNA TEC, AS MANUFACTURED BY THOR ENTERPRISES
 INC. OR APPROVED EQUAL.
- 42. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WATER CONNECTIONS SHALL BE METERED, AND THE COST OF WATER AND TEMPORARY METER SHALL BE BORNE BY THE CONTRACTOR.
- 43. A COMPLETE AS-BUILT SURVEY SHALL BE ACCURATELY RECORDED OF THE UTILITY SYSTEM DURING CONSTRUCTION. AS-BUILT SURVEY SHALL BE SUBMITTED TO ECSD SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF PROJECT. THE COST OF SIGNED AND SEALED AS-BUILTS SHALL BE COVERED IN OVERALL BID. THE AS-BUILT SURVEY SHALL INCLUDE:
- a. PLAN VIEW SHOWING THE HORIZONTAL LOCATIONS OF EACH MANHOLE, INLET, VALVE, FITTING, BEND AND HORIZONTAL PIPE DEFLECTIONS WITH COORDINATES AND IN REFERENCE TO A SURVEY BASELINE OR RIGHT-OF-WAY CENTERLINE.
- b. THE PLAN VIEW SHALL ALSO SHOW SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERTS (GRAVITY MAINS) AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG MAIN. THE PLAN VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFI ECTION.
- c. THE PLAN VIEW SHALL ALSO SHOW THE HORIZONTAL SEPARATION FROM UNDERGROUND UTILITIES IMMEDIATELY ADJACENT OR PARALLEL TO THE NEW MAIN.
- d. PROFILE VIEW WITH SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERT (GRAVITY MAIN) AND OF THE FINISHED GRADE OR MANHOLE RIM DIRECTLY ABOVE THE MAIN AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG THE MAIN. THE PROFILE VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
- e. THE PROFILE VIEW SHALL SHOW ALL UNDERGROUND UTILITIES CROSSING THE NEW MAIN AND THE VERTICAL SEPARATION PROVIDED BETWEEN THAT UNDERGROUND UTILITY AND THE NEW MAIN.
- f. ALL CADD FILES MUST BE CREATED FOLLOWING THE CITY OF HOLLYWOOD "SURVEY / AS-BUILT CAD DRAWING STANDARDS"

OF HOLLY WOOD	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
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NOTES:

- 1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR DRAINFIELD LIMEROCK). CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB—ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER DELETERIOUS MATERIALS.
- ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".
- DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.
- 4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARD 125-8.

OF HOLLY WOOD AND	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/201
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A CITY OF HOLLYWOOD PLANNING REVISIONS 8/

HORN AND ASSOCIATES, INC.
JITE 200, VERO BEACH, FL 32960
: 772-794-4100
N.COM. RFGISTRY NO. 35106

© 2024 KIMLEY—HORN AND ASS 24TH STREET, SUITE 200, VERO PHONE: 772—794—41(WWW.KIMLEY—HORN.COM REGIST

ALE AS SHOWN SIGNED BY SHB

8// SCALE DESIGN

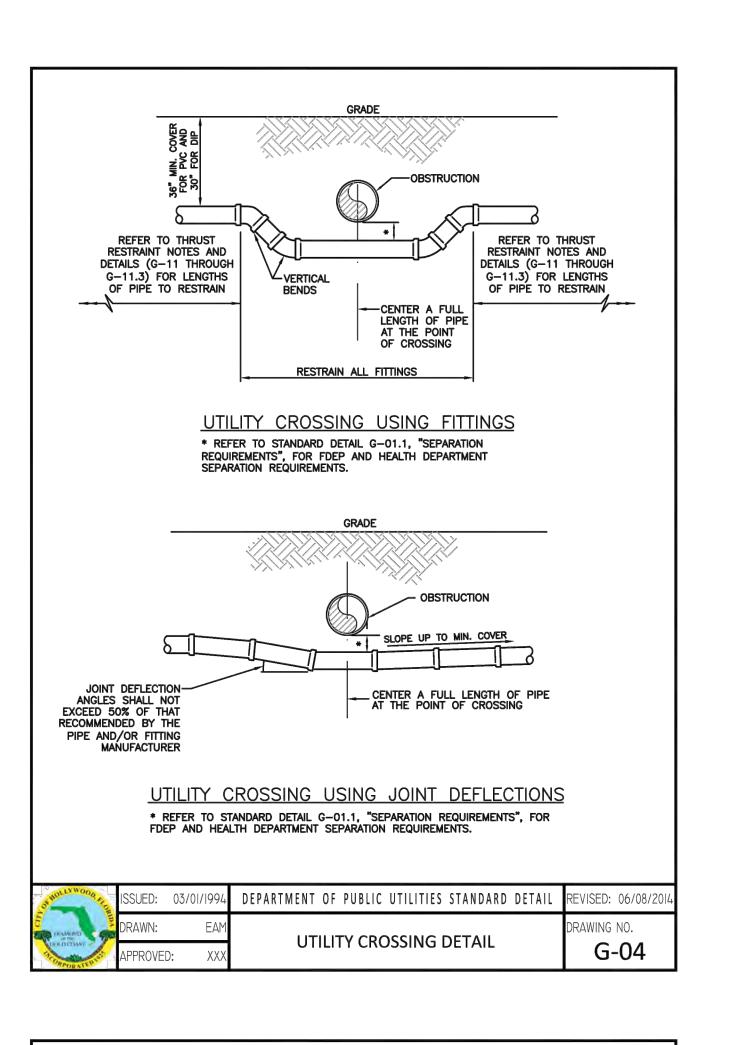
JTILITY PLAN

D EAST AMILY

AKWOOD EAS MULTI FAMIL)

SHEET NUMBER

C-450



RESILIENT SEATED GATE VALVE SPECIFICATIONS:

NOMINAL DIAMETER OF THE VALVE.

1. GATE VALVES SHALL BE RESILIENT SEATED, MANUFACTURED TO MEET OR EXCEED THE

REQUIREMENTS OF AWWA C509 (LATEST REVISION) AND IN ACCORDANCE WITH THE FOLLOWING

1.1. VALVES SHALL HAVE AN UNOBSTRUCTED WATERWAY EQUAL TO OR GREATER THAN THE FULL

1.2. THE VALVES ARE TO BE NON-RISING STEM WITH THE STEM MADE OF CAST, FORGED OR ROLLED

1.3. THE STEM NUT, ALSO MADE OF BRONZE, MAY BE INDEPENDENT OF THE GATE OR CAST

1.4. THE SEALING MECHANISM SHALL CONSISTS OF A CAST IRON GATE HAVING A VULCANIZED

1.6. ALL VALVES ARE TO BE SUPPLIED COMPLETE AND READY FOR INSTALLATION INCLUDING, BUT

1.7. ALL VALVES ARE TO BE TESTED IN STRICT ACCORDANCE WITH AWWA C509 LATEST REVISION).

PRESSURE WHEN INSTALLED WITH THE LINE FLOW IN EITHER DIRECTION.

1.5. A 2-INCH SQUARE WRENCH NUT SHALL BE PROVIDED FOR OPERATING THE VALVE.

NOT LIMITED TO ALL NUTS, BOLTS RINGS AND RUBBERS.

BRONZE SHOWN IN AWWA C509, TWO STEM SEALS SHALL BE PROVIDED AND SHALL BE OF THE O-RING TYPE, ONE ABOVE AND ONE BELOW THE THRUST COLLAR WITH LUBRICANT BETWEEN

INTEGRALLY WITH THE GATE. IF THE STEM NUT IS CAST INTEGRALLY, THE THREADS SHALL BE

STRAIGHT AND TRUE WITH THE AXIS OF THE STEM TO AVOID BINDING DURING THE OPENING OR

SYNTHETIC RUBBER COATING OR A RUBBER SEAT MECHANICALLY RETAINED ON THE GATE, THE RESILIENT SEALING MECHANISM SHALL PROVIDE ZERO LEAKAGE AT THE WATER WORKING

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

RESILIENT SEATED GATE VALVE

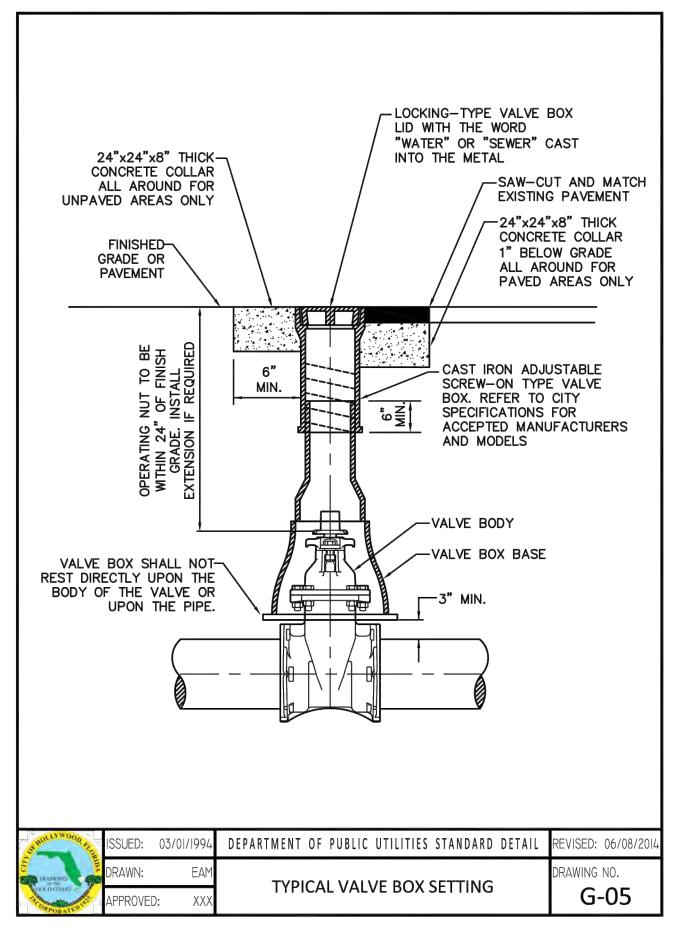
SPECIFICATIONS

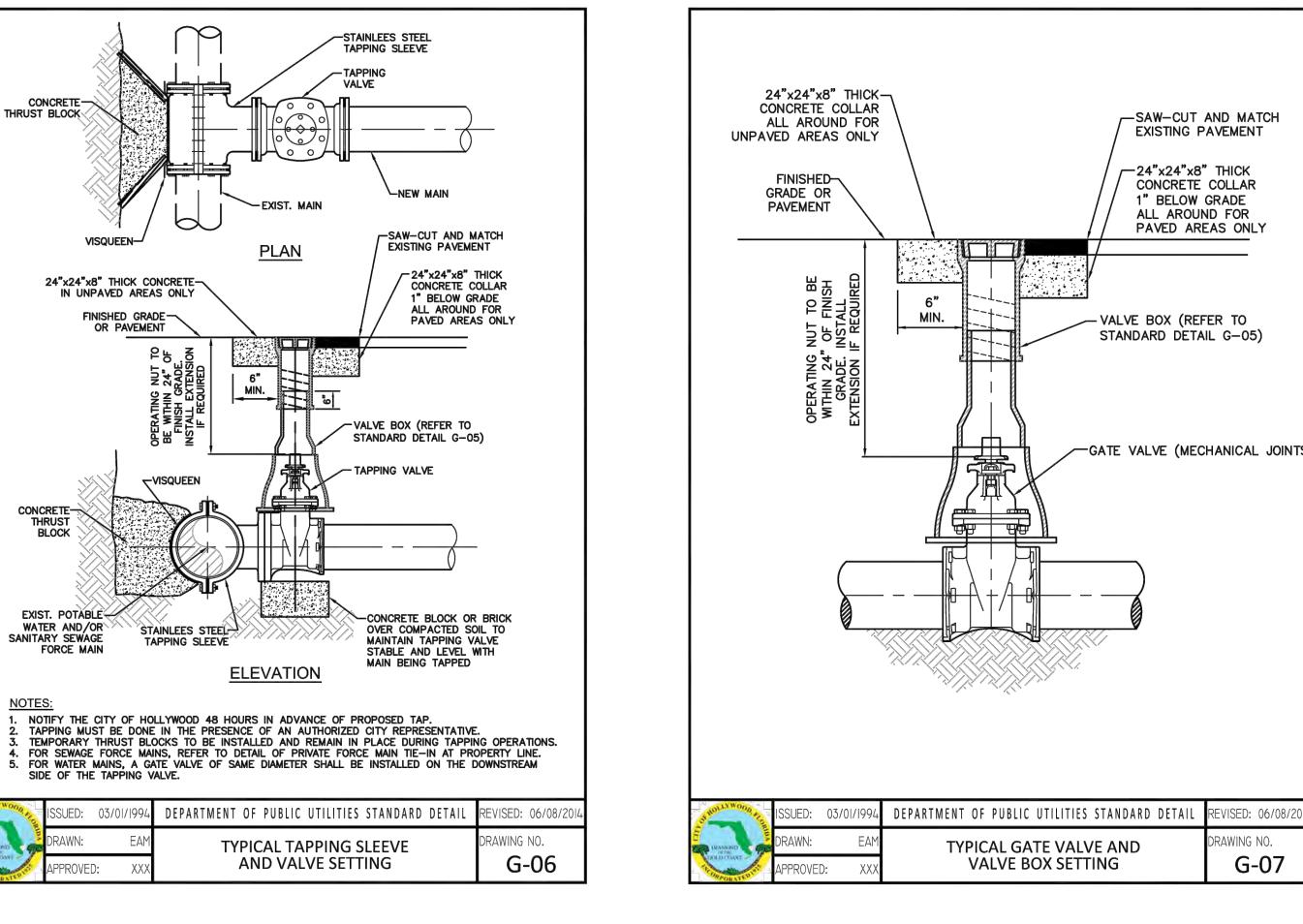
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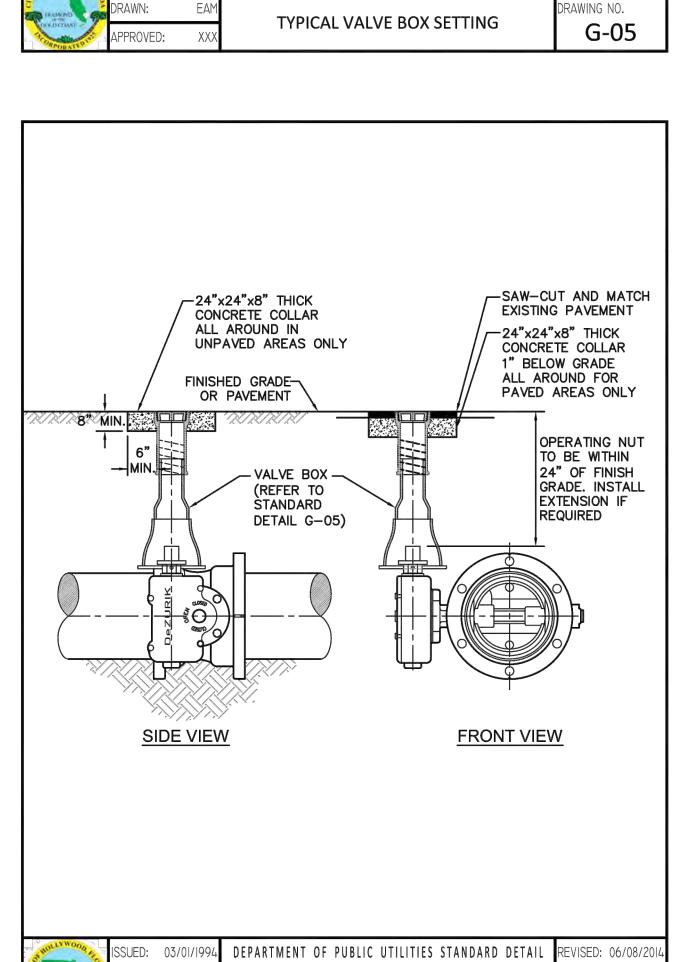
4" THROUGH 12" SIZE

SPECIFICATIONS:

(WATER AND FORCE MAIN)





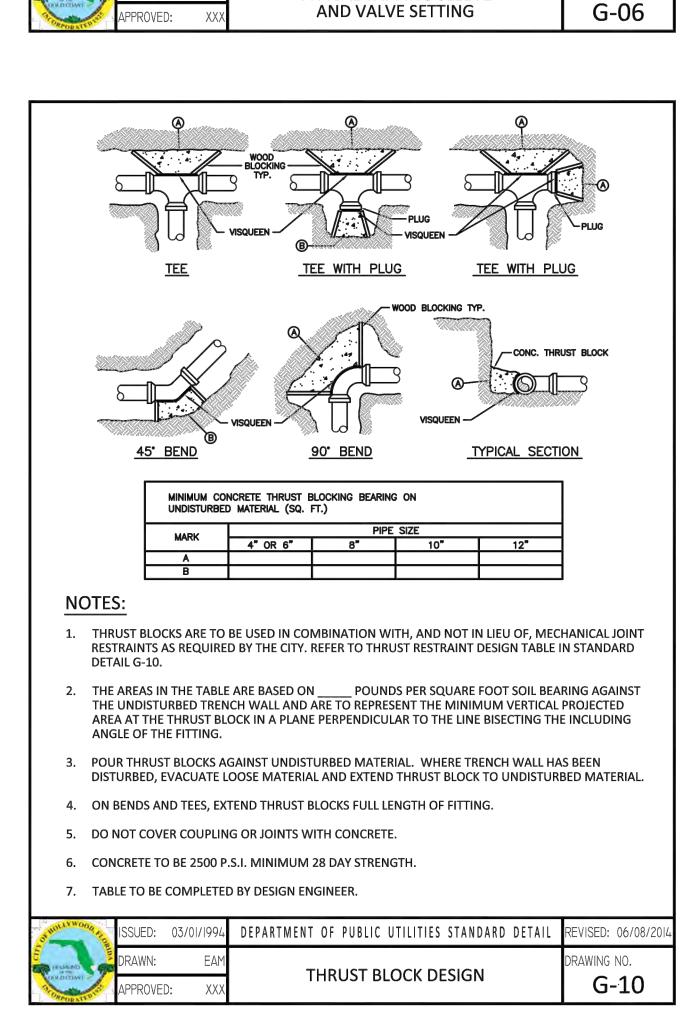


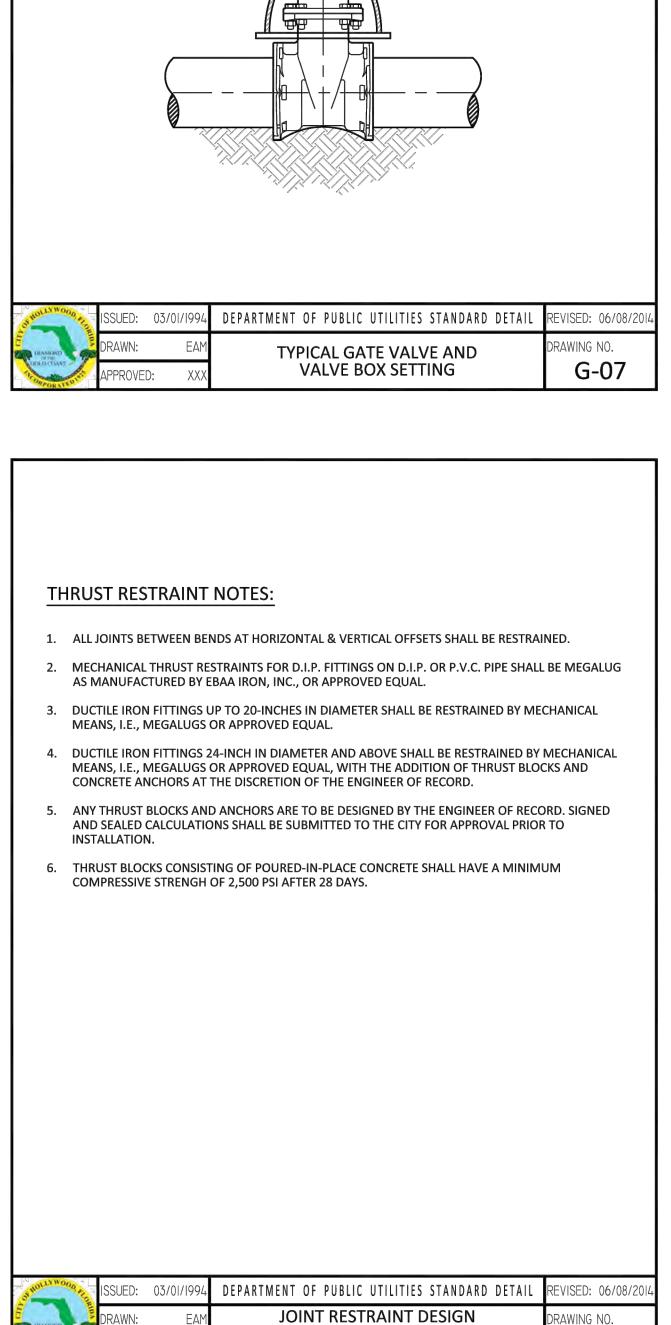
TYPICAL BUTTERFLY

VALVE SETTING

AWING NO.

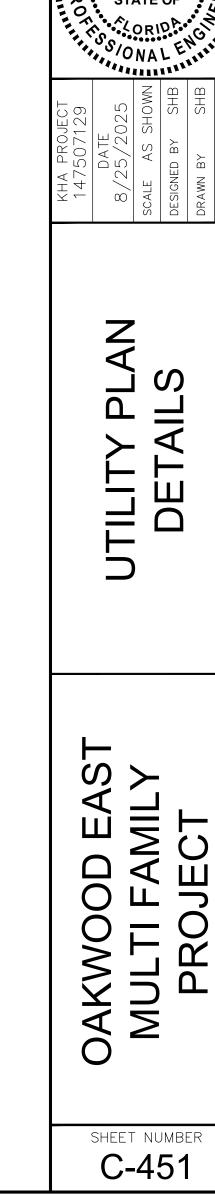
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FOR PVC AND DIP

THRUST RESTRAINT NOTES

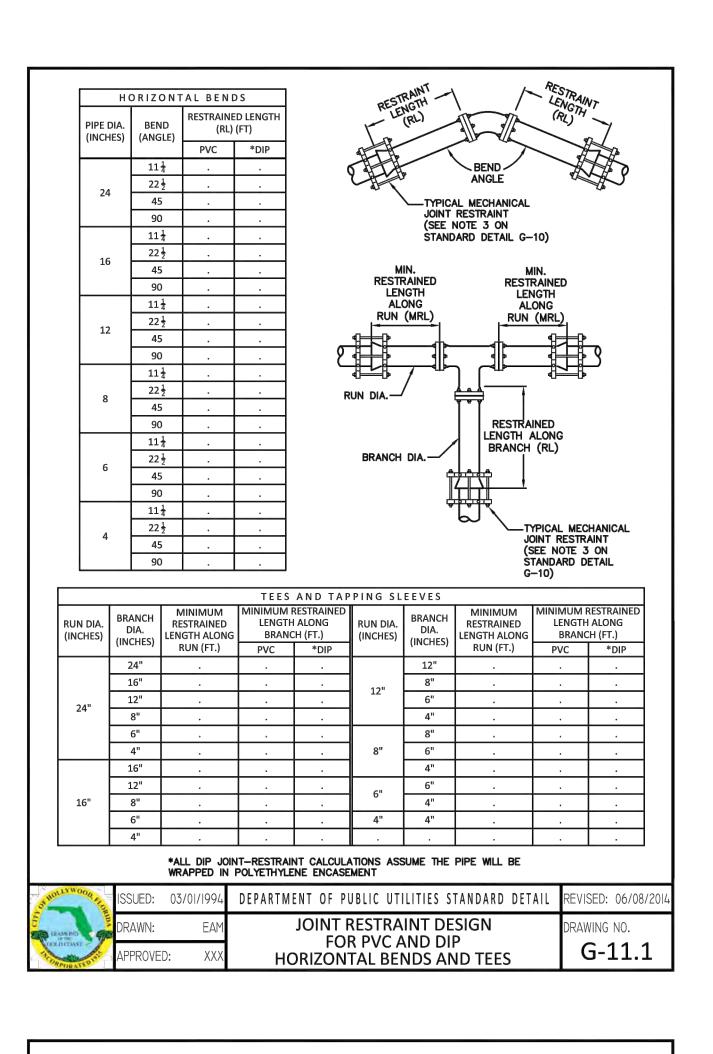


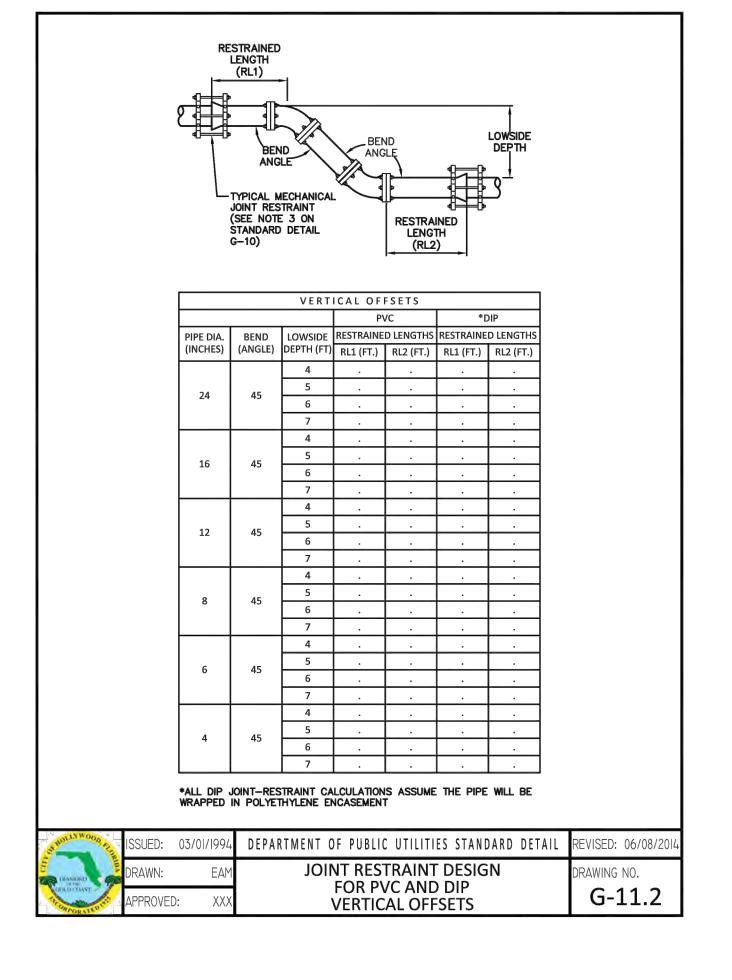
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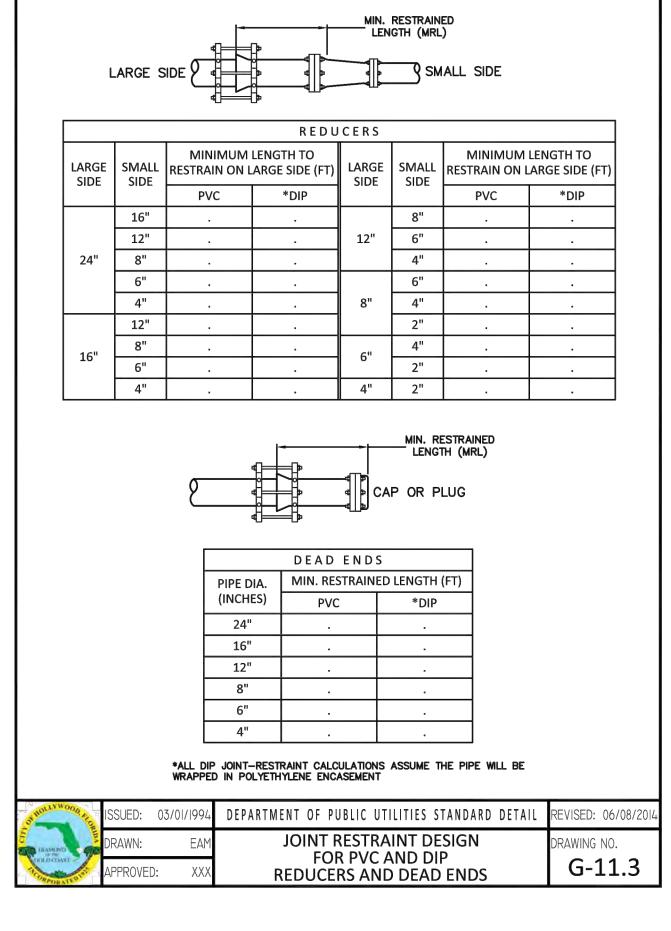
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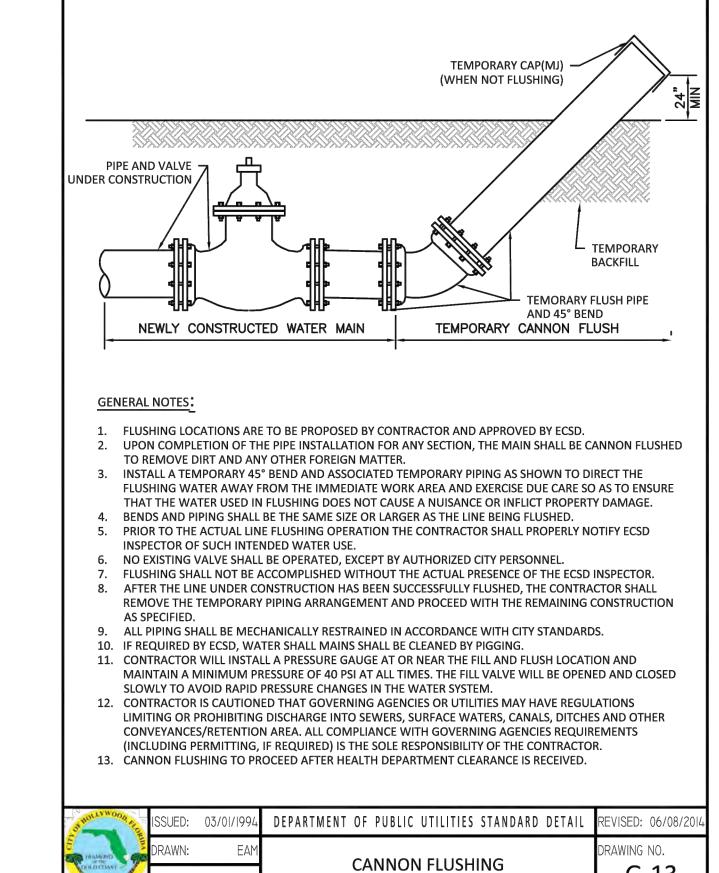
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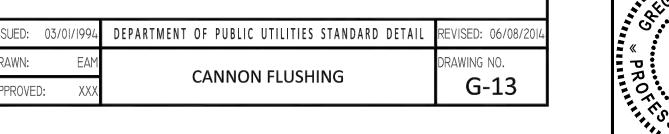
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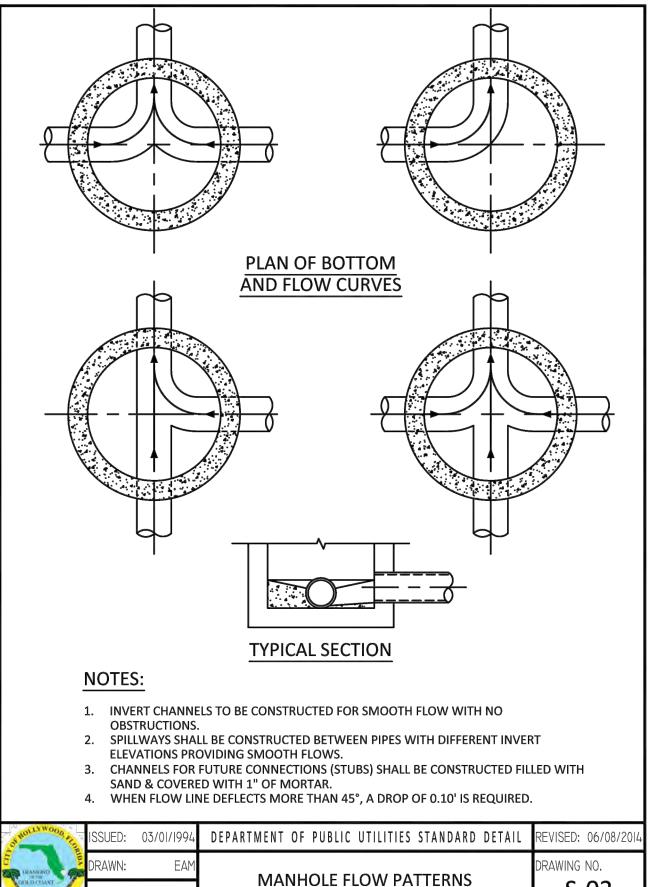




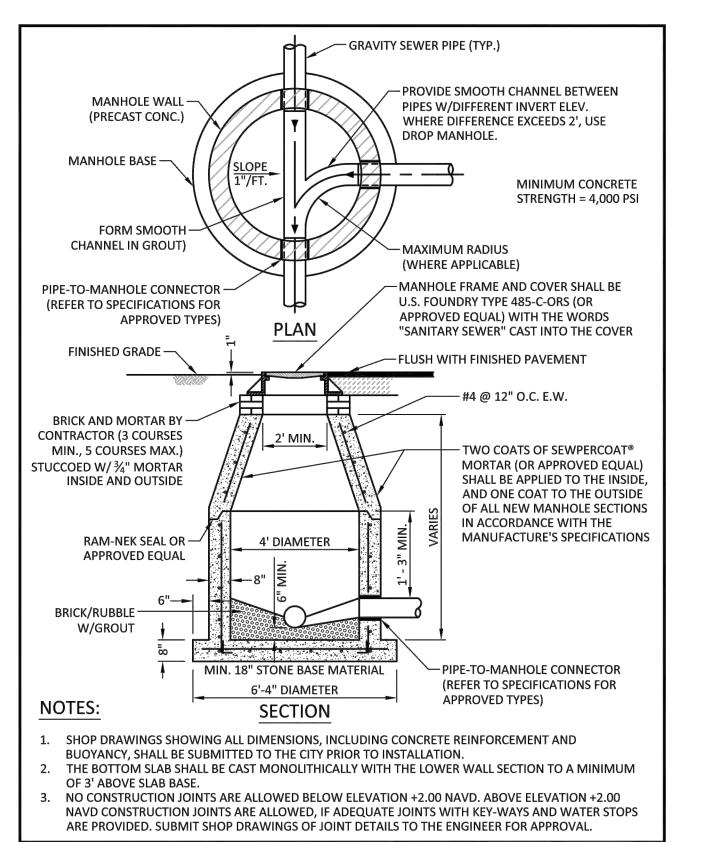
- THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".
- 2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE
- 4. LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLE TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.
- 5. LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING
- 6. FORCE MAINS SHALL BE PRESSURE-TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

- L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR
- D = PIPE DIAMETER IN INCHES
- S = LENGTH OF LINES IN LINEAL FEET P = AVERAGE TEST PRESSURE IN PSI
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTYFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
- 8. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

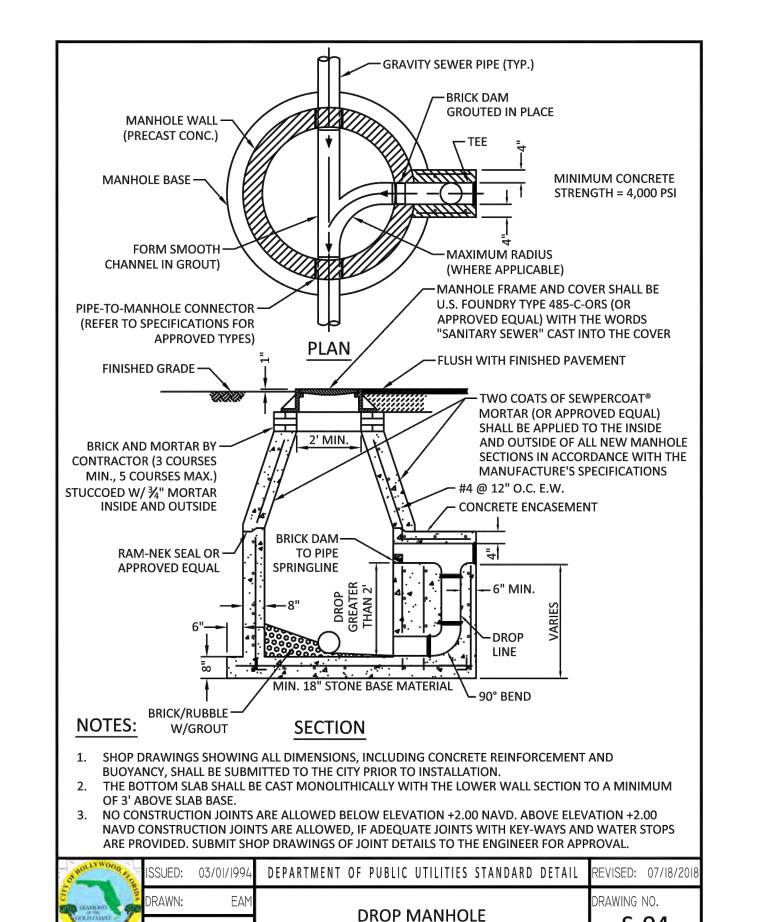
MULLYWOOD REG	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
I HAMIND	DRAWN:	EAM	SANITARY SEWER MAIN	DRAWING NO.
ORDORATE OF	APPROVED): XXX	CONSTRUCTION NOTES	S-01



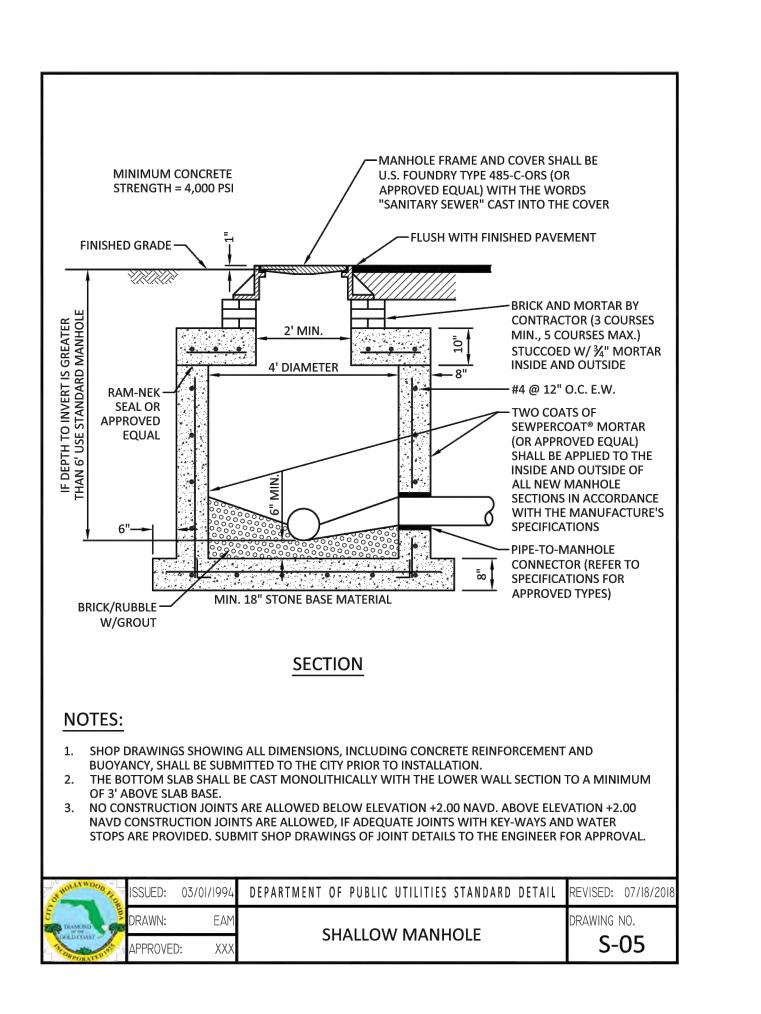
S-02



JAHOTTAMOOD VIEW	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 07/18/2	2018
S INAMEND S	DRAWN:	EAM	STANDARD PRECAST MANHOLE	DRAWING NO.	
ACORPORATE DE	APPROVED): XXX	STANDARD PRECAST WANHOLE	S-03	



S-04



EXIST. SEWER MAIN —

WYE BRANCH -

- ROTATE BEND AS REQUIRED TO ALIGN SERVICE BRANCH WITH SERVICE PIPE -

<u>PLAN</u>

ELEVATION

USE RISER CONNECTIONS WHERE INVERT OF SEWER IS GREATER THAN 7'-0" DEEP.

WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A

WYE BRANCH CONNECTION

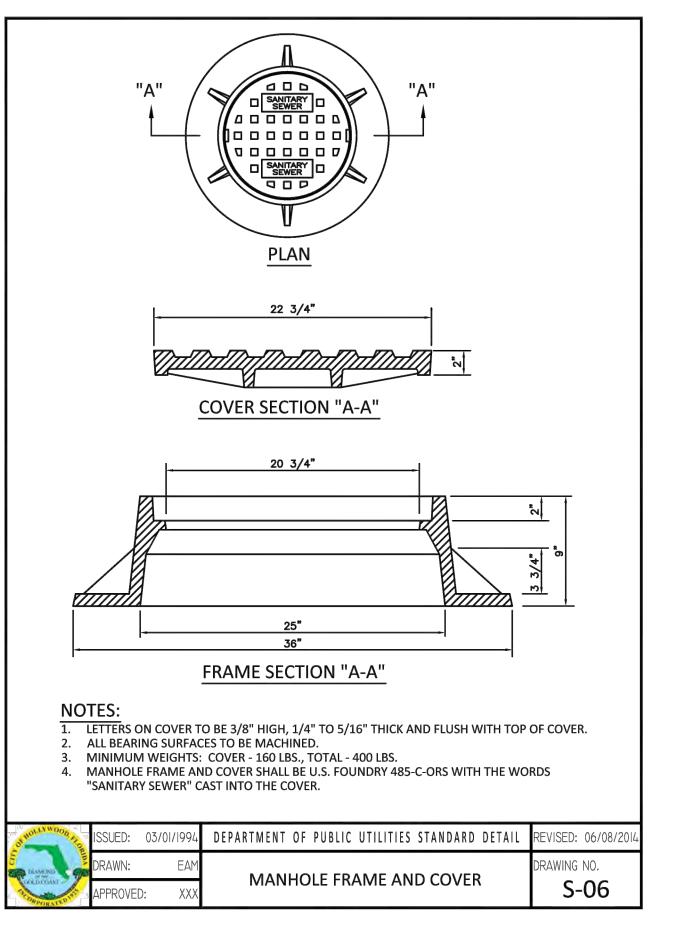
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/20

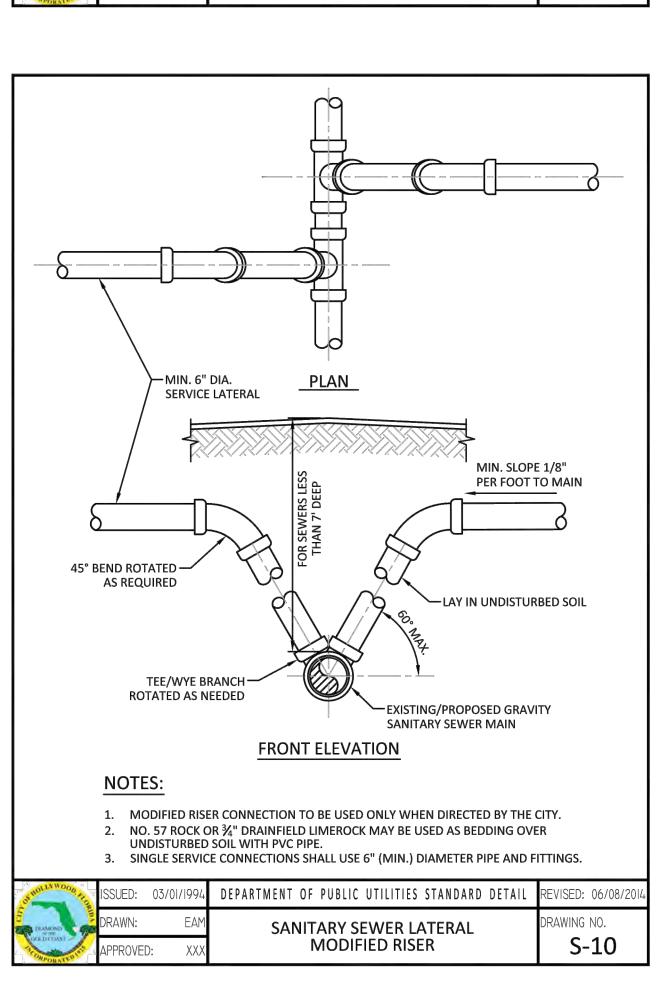
AWING NO.

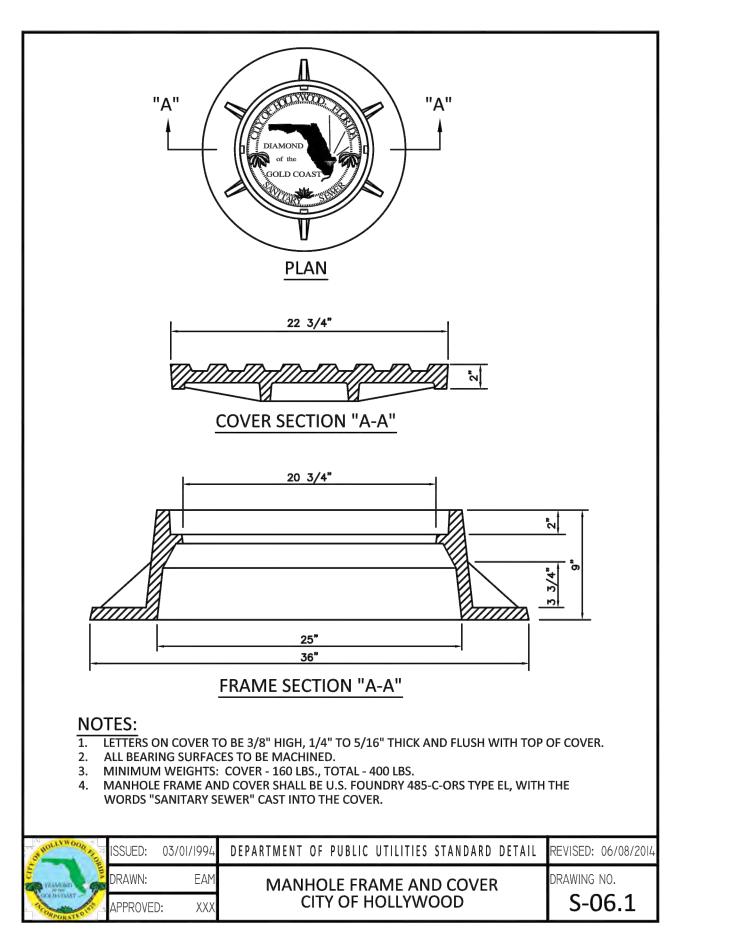
S-09

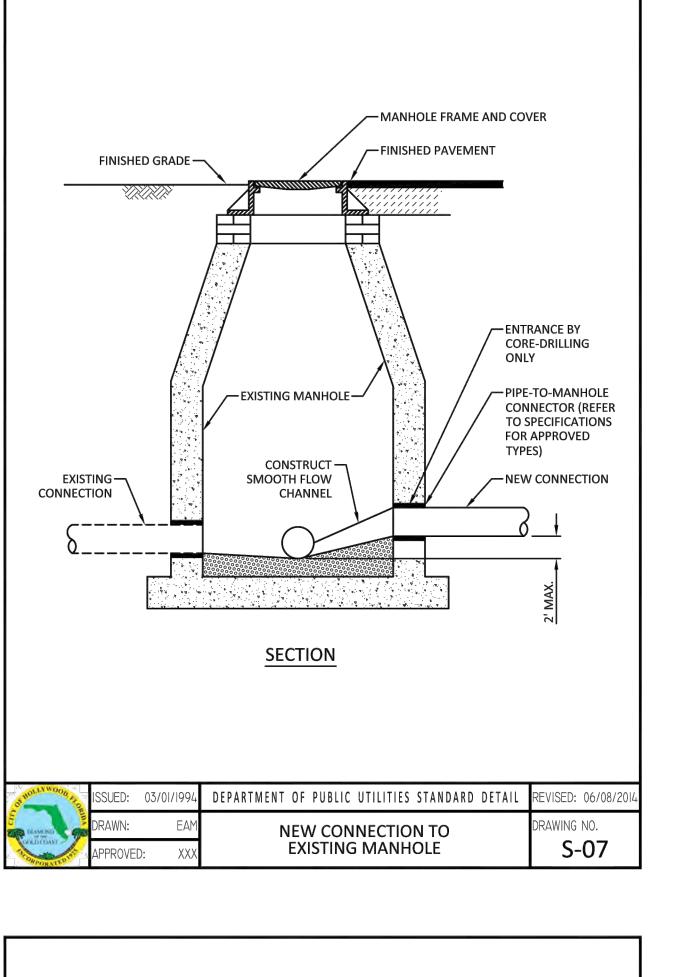
SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.

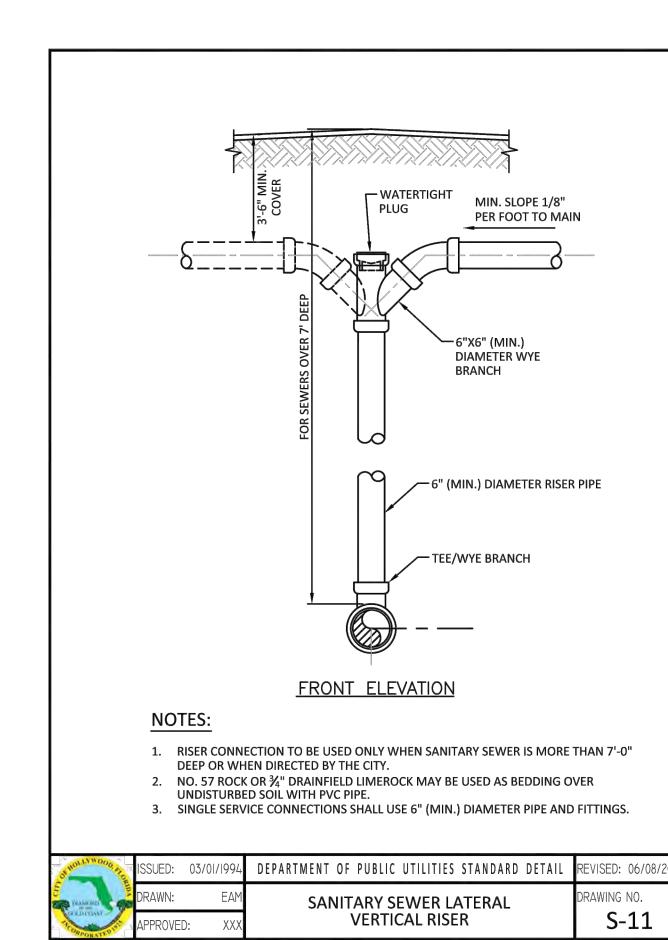
SECOND FLEXIBLE COUPLING.

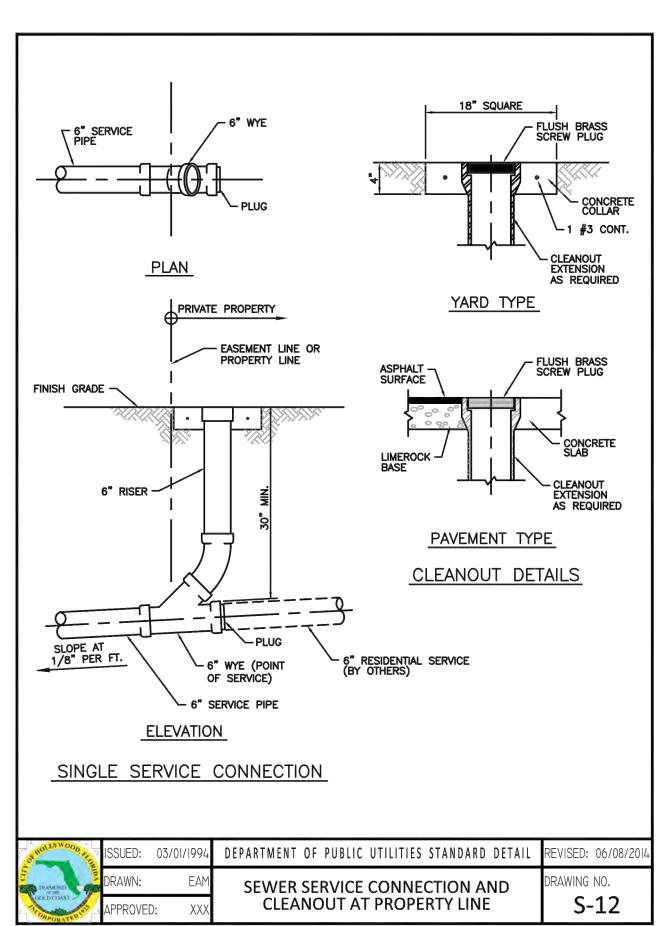


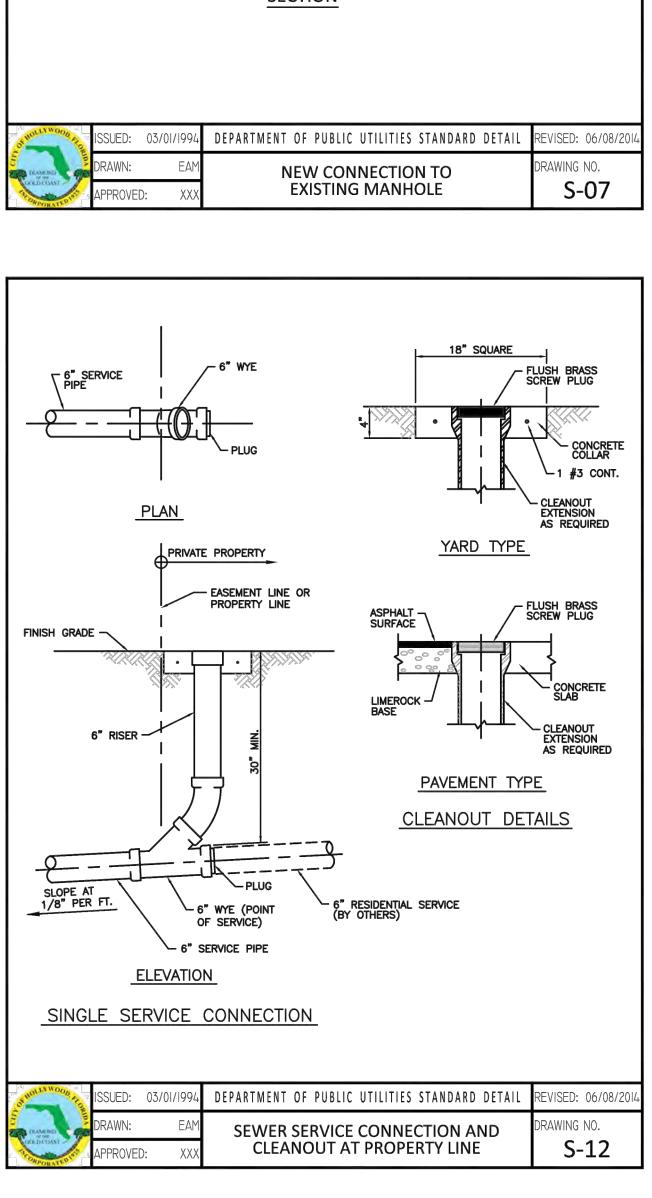


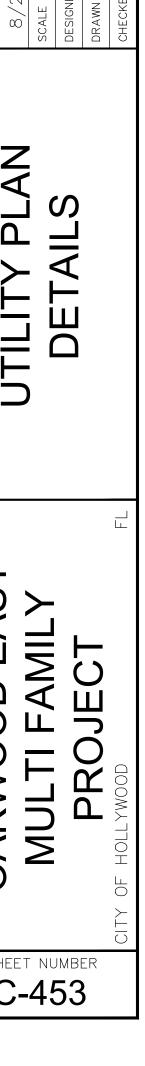








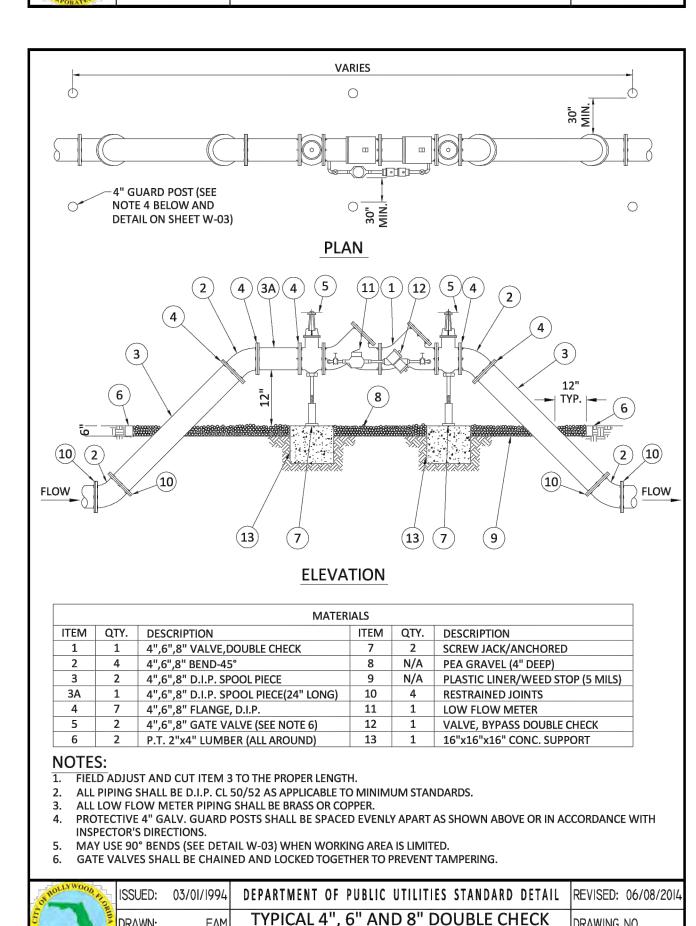




WATER SYSTEM NOTES:

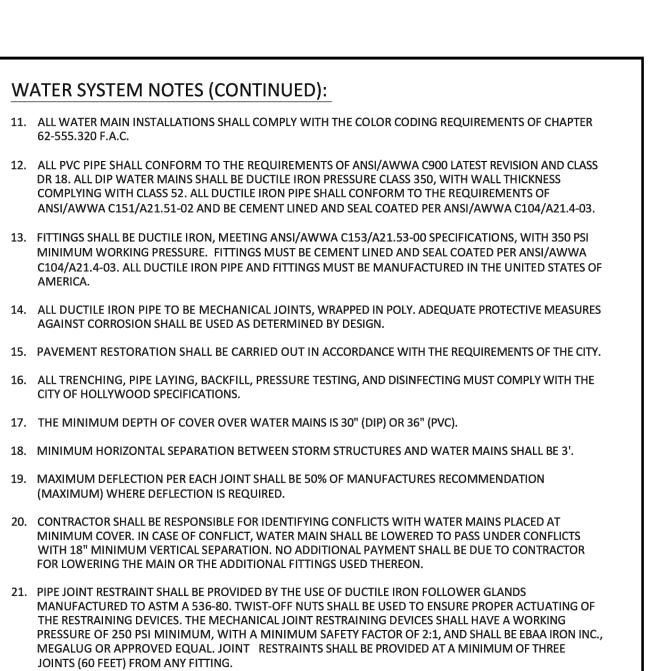
- NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE.
- NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
- 3. AT ALL UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
- NEW UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT TO BE DUCTILE IRON PIPE (D.I.P.) WHEN CROSSING BELOW SANITARY SEWER MAINS.
- POLYETHYLENE ENCASEMENT MATERIAL SHALL BE USED TO ENCASE ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES, RODS, AND APPURTENANCES IN ACCORDANCE WITH AWWA C105, METHOD A. THE POLYETHYLENE TUBING SHALL BE CUT TWO FEET LONGER THAN THE PIPE SECTION AND SHALL OVERLAP THE ENDS OF THE PIPE BY ONE FOOT. THE POLYETHYLENE TUBING SHALL BE GATHERED AND LAPPED TO PROVIDE A SNUG FIT AND SHALL BE SECURED AT QUARTER POINTS WITH POLYETHYLENE TAPE. EACH END OF THE POLYETHYLENE TUBING SHALL BE SECURED WITH A WRAP OF POLYETHYLENE TAPE.
- THE POLYETHYLENE TUBING SHALL PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT IS NOT INTENDED TO BE A COMPLETELY AIRTIGHT AND WATERTIGHT ENCLOSURE. DAMAGED POLYETHYLENE TUBING SHALL BE REPAIRED IN A WORKMANLIKE MANNER USING POLYETHYLENE TAPE, OR THE DAMAGED SECTION SHALL BE REPLACED. POLY WRAP WILL NOT BE PAID FOR AS A SEPARATE BID ITEM. IT SHALL BE CONSIDERED TO BE A PART OF THE PRICE BID FOR WATER MAINS.
- FIRE HYDRANT BARRELS SHALL BE ENCASED IN POLY WRAP UP TO THE GROUND SURFACE AND THE WEEP HOLES SHALL NOT BE COVERED BY THE POLY WRAP.
- GATE VALVES FOR USE WITH PIPE LESS THAN THREE INCHES (3") IN DIAMETER SHALL BE RATED FOR TWO HUNDRED (200) PSI WORKING PRESSURE, NON-SHOCK, BLOCK PATTERN, SCREWED BONNET, NON-RISING STEM, BRASS BODY, AND SOLID WEDGE. THEY SHALL BE STANDARD THREADED FOR PVC PIPE AND HAVE A MALLEABLE IRON HANDWHEEL. GATE VALVES 3" THROUGH 16" IN DIAMETER SHALL BE RESILIENT SEAT AND BIDIRECTIONAL FLOW ONLY. VALVES FOR SPECIAL APPLICATIONS WILL REQUIRE CITY UTILITY APPROVAL.
- VALVE BOXES AND COVERS FOR ALL SIZE VALVES SHALL BE OF CAST IRON CONSTRUCTION AND ADJUSTABLE SCREW-ON TYPE. THE LID SHALL HAVE CAST IN THE METAL THE WORD "WATER" FOR THE WATER LINES. ALL VALVE BOXES SHALL BE SIX INCH (6") NOMINAL DIAMETER AND SHALL BE SUITABLE FOR DEPTHS OF THE PARTICULAR VALVE. THE STEM OF THE BURIED VALVE SHALL BE WITHIN TWENTY-FOUR INCHES (24") OF THE FINISHED GRADE UNLESS OTHERWISE APPROVED BY THE CITY.
- 10. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.

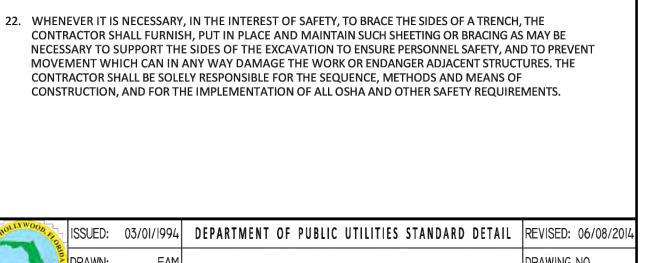
OF HOLLYWOOD AND	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DIAMOND PO	DRAWN:	EAM		DRAWING NO.
GOLD COAST	APPROVED): XXX	WATER SYSTEM NOTES	W-01

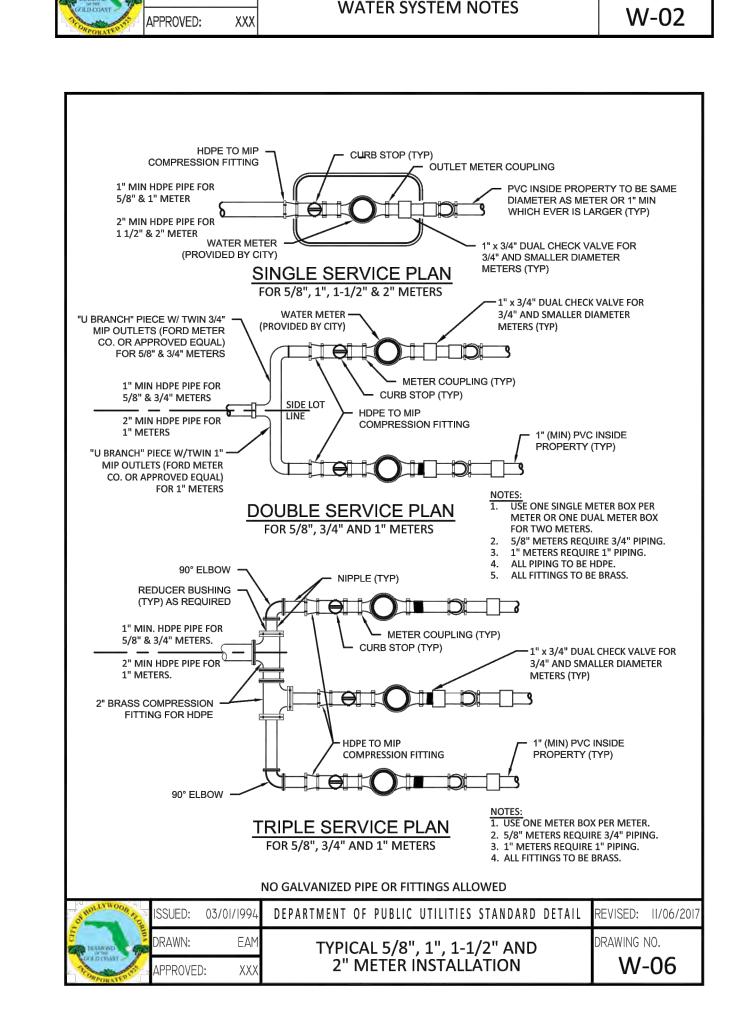


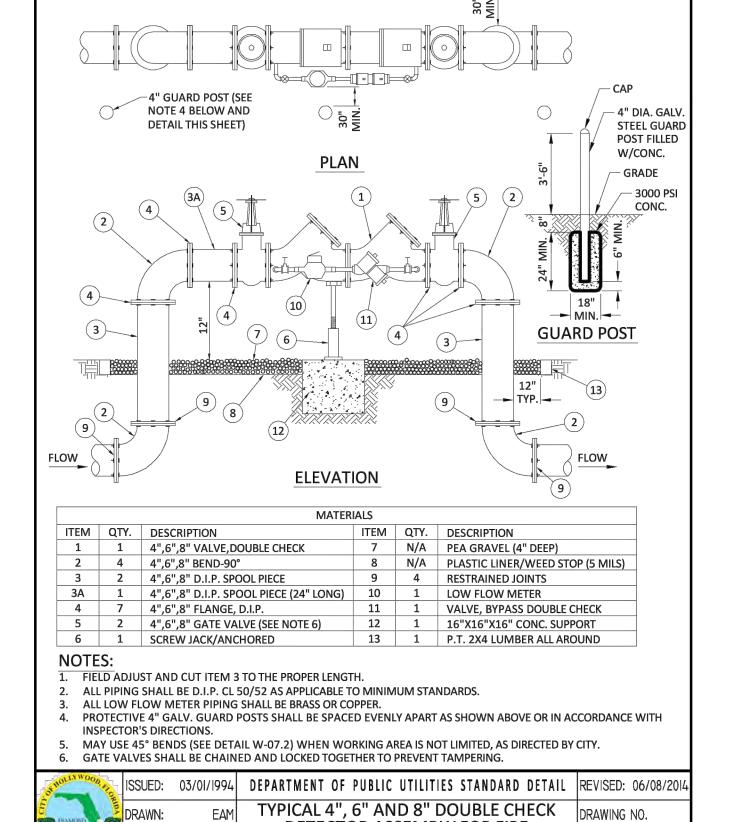
DETECTOR ASSEMBLY FOR FIRE

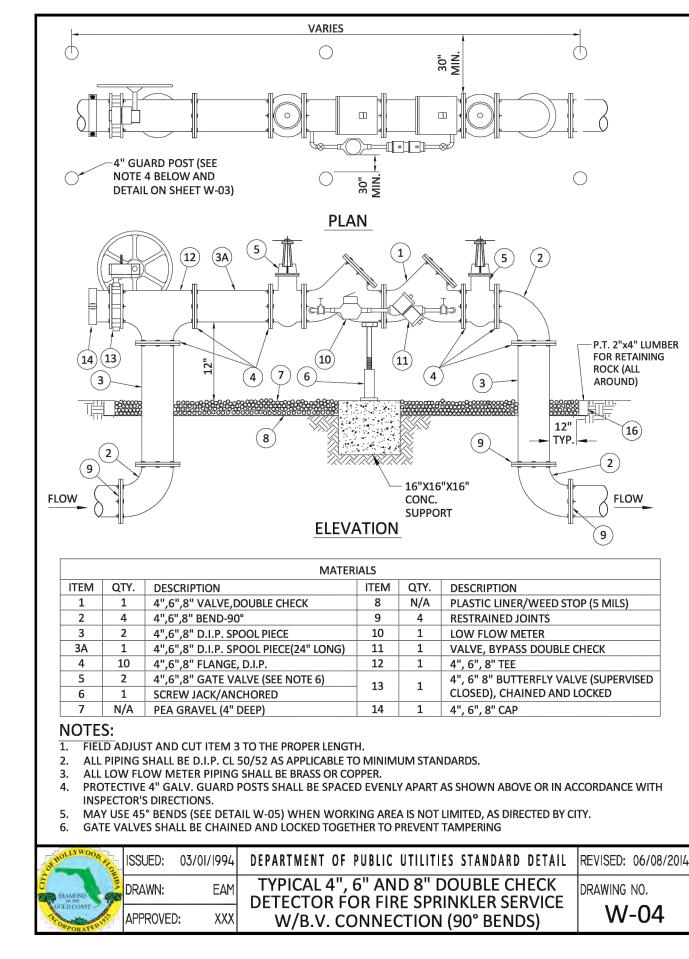
SPRINKLER SERVICE (45° BENDS)

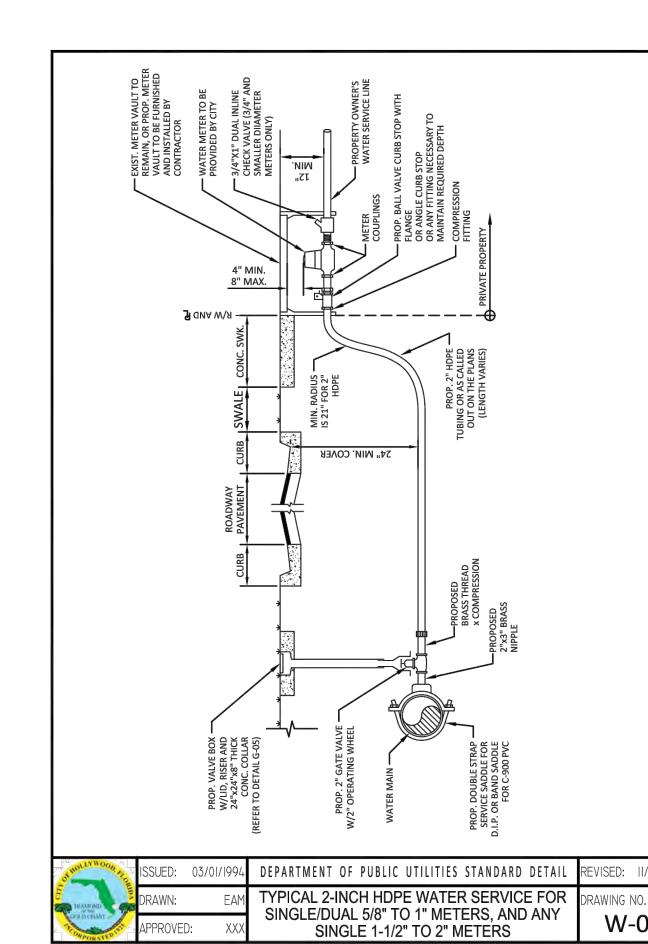














SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER. P.E. TUBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901. "POLYETHYLENE (PE) PRESSURE PIPE AND TUBING, 1/2 IN. (13mm) THROUGH 3 IN. (76 mm), FOR

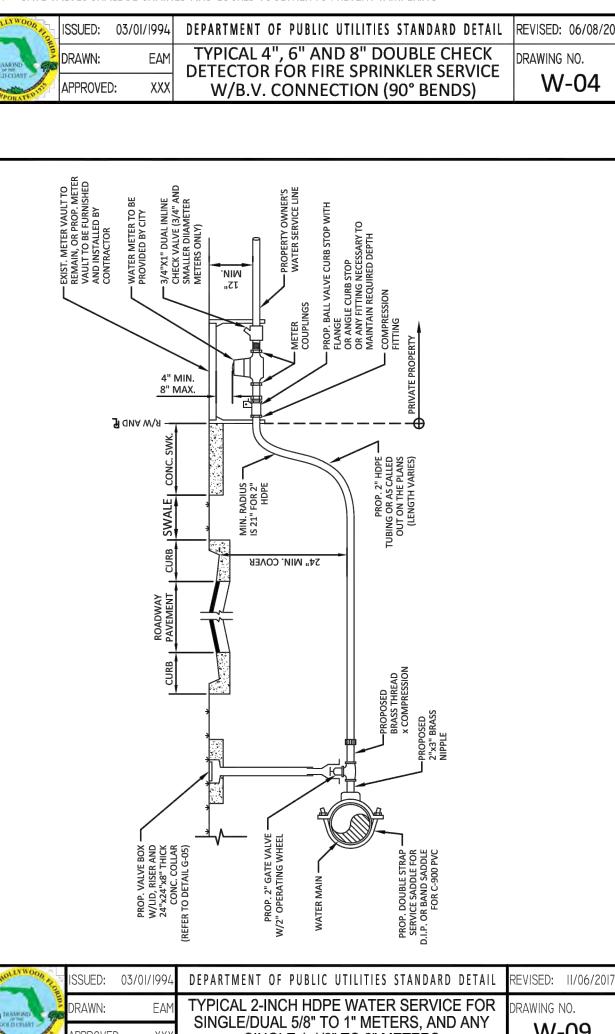
DETECTOR ASSEMBLY FOR FIRE

SPRINKLER SERVICE (90° BENDS)

W-03

- WATER SERVICE". MINIMUM SERVICE PIPE DIAMETER SHALL BE 1" FOR SINGLE OR DUAL %" OR SINGLE 1"
- DIAMETER METERS. MINIMUM SERVICE PIPE DIAMETER SHALL BE 2" FOR SINGLE OR DUAL 1-½" OR SINGLE 2"
- FOR METER DIAMETERS LARGER THAN 2", THE MINIMUM SERVICE PIPE DIAMETER SHALL BE THE SAME AS THE METER DIAMETER.
- 6. APPROVED COPPER TUBING MAY BE USED AT THE CITY'S DISCRETION.
- FOR NEW METER INSTALLATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE WATER METERS WILL BE PROVIDED AND INSTALLED BY THE CITY OF
- FOR METER RELOCATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE EXISTING WATER METER TO BE RELOCATED AND INSTALLED BY CONTRACTOR.
- FOR EXISTING METERS ABUTTING THE RIGHT-OF-WAY THAT ARE BEING DISCONNECTED FROM EXISTING MAINS AND RECONNECTED TO NEW MAINS, THE CONTRACTOR SHALL:
- a. CUT AND PLUG THE EXISTING SERVICE LINE AT THE MAIN AND AT THE METER, AND REMOVE THE EXISTING BALL VALVE CURB STOP. b. FURNISH AND INSTALL SERVICE SADDLE, CORPORATION STOP OR SERVICE VALVE AND VALVE
- BOX, PIPING AND FITTINGS UP TO AND INCLUDING THE BALL VALVE CURB STOP. 12. THE ELEVATION AT THE TOP OF THE METER BOX SHALL MATCH THE ELEVATION OF THE BACK OF SIDEWALK, WHENEVER PRACTICAL.
- 13. AS PART OF THE SERVICE INSTALLATION, THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY TO MATCH EXISTING CONDITIONS, INCLUDING ROADWAY PAVEMENT, PAVEMENT MARKINGS AND RPMs, CONCRETE CURBS, SIDEWALKS, RAMPS (INCLUDING DETECTABLE WARNING SURFACE), SODDING, AND ALL OTHER IMPROVEMENTS REMOVED OR DAMAGED DURING THE SERVICE INSTALLATION.
- 14. FOR UNPAVED AREAS, THE MINIMUM GROUND COVER ACCEPTED BY THE CITY IS SODDING.

THAMPAD GOOD STAN	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
	DRAWN:	EAM	WATER METER SERVICE NOTES FOR	DRAWING NO.
	APPROVE	D: XXX	5/8" THROUGH 2" METERS	W-07



ORY D. W/

CENS

No. 63166

FILLING ASSEMBLY FITTINGS AND EQUIPMENT SHALL BE 2" MAX. DETAIL 'A'

- NEW WATER MAIN

INSTALLED WITH PLUG & THRUST BLOCK

METHOD ''A"

SEE DETAIL 'A' FOR

FILLING ASSEMBLY

—VENT TO ATMOSPHERE

CORPORATION -

C.I. SCREW TYPE -

VALVE BOX

EXIST. OR NEW —

CORPORATION STOP

CONNECTION TO BE COMPLETED AFTER SATISFACTORY TEST RESULTS HAVE BEEN

- FILL & FLUSH HERE

─ NEW WATER MAIN

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/20

- NEW GATE VALVE

FILLING AND FLUSHING DETAILS

→ LIMITS OF TEST

METHOD "B"

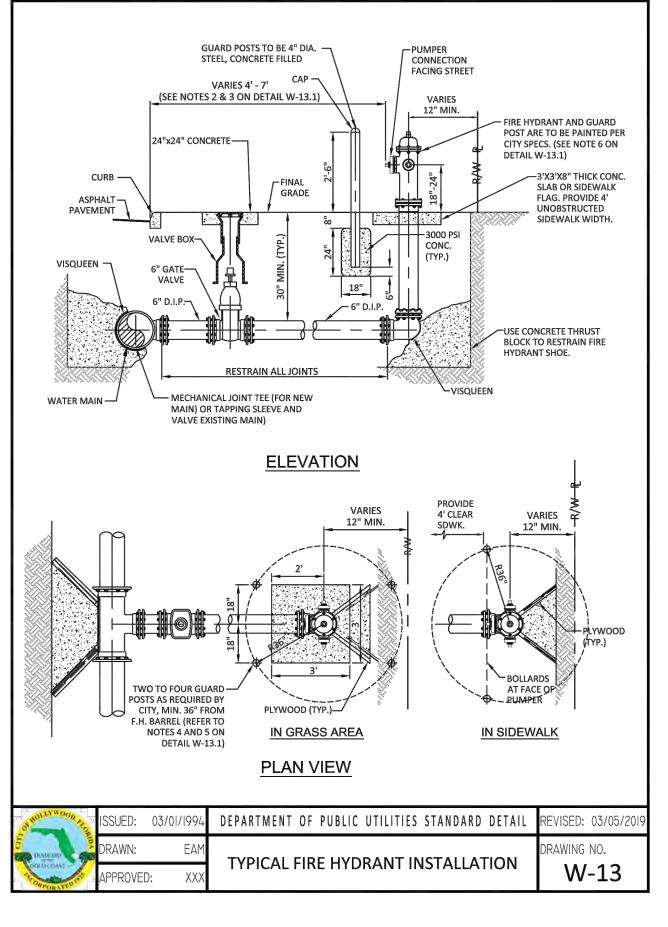
—CORPORATION STOP

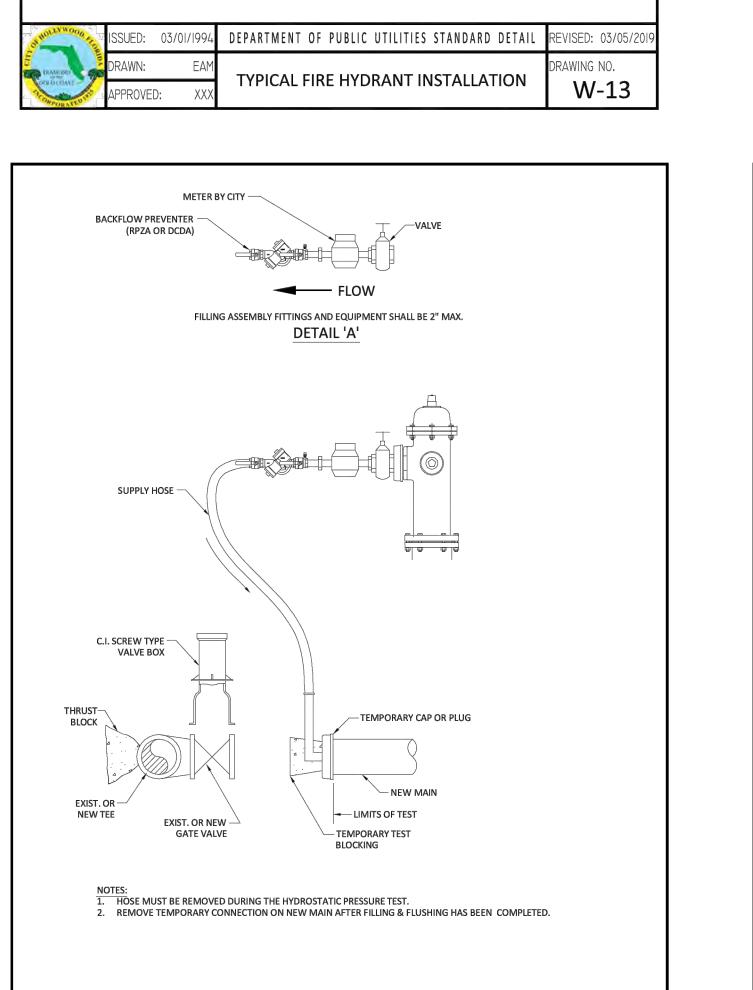
REMOVE TEMPORARY CONNECTION AT

PRAWING NO.

CORPORATION STOP ON NEW MAIN AFTER FILLING & FLUSHING HAS BEEN

(RPZA OR DCDA)



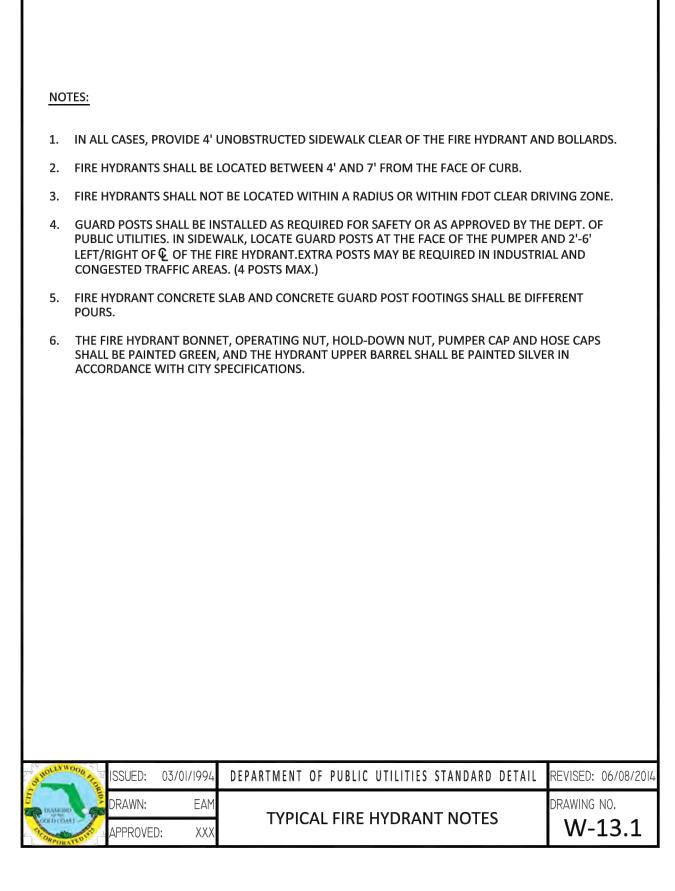


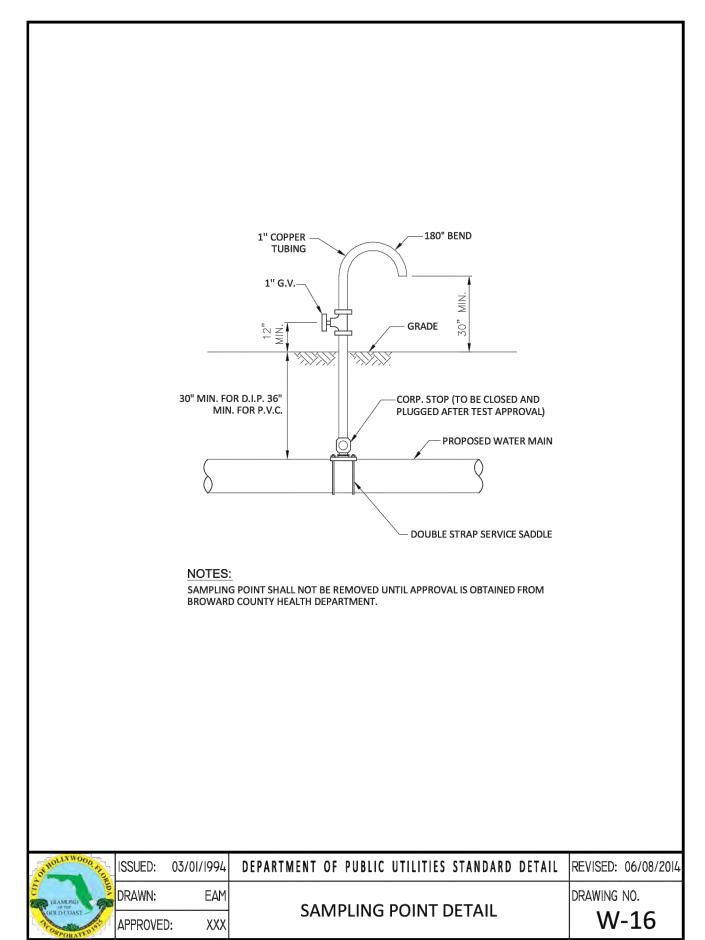
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/20

CROSS CONNECTION

FILLING AND FLUSHING DETAILS

DRAWING NO.





- 1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL THE PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED ON THE PROPOSED WATER MAINS AND THE SYSTEM HAS BEEN APPROVED BY THE CITY OF HOLLYWOOD AND THE BROWARD
- 2. THE PRESSURE TEST SHALL BE PERFORMED FOR 2 HOURS AT A CONSTANT PRESSURE OF 150 PSI AND IN ACCORDANCE WITH RULE 62-555.330 (FAC) C600 AWWA LATEST REVISION, EXCEPT AS OTHERWISE SPECIFIED HEREIN AND IN SPECIFICATION SECTION 15995, "PIPELINE TESTING AND DISINFECTION". PRESSURE TEST SHALL BE WITNESSED BY THE CITY OF HOLLYWOOD. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:
- L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR. S = THE LENGTH OF PIPE BEING TESTED. D = THE NOMINAL DIAMETER OF THE PIPE BEING TESTED.
- 3. THE COMPLETE LENGTH OF THE PROPOSED WATER MAIN SHALL BE TESTED, IN LENGTHS
- EDITION OF ANSI/AWWA STANDARD C651 AND BACTERIOLOGICAL TESTED FOR TWO
- 5. BACTERIOLOGICAL TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
- 6. THE CONTRACTOR SHALL DIRECTLY HIRE A TESTING LABORATORY CERTIFIED BY THE FLORIDA DEPARTMENT OF HEALTH IN ORDER TO COLLECT AND TEST WATER SAMPLES FROM THE WATER DISTRIBUTION SYSTEM TO BE PLACED INTO SERVICE. SAMPLE COLLECTION AND BACTERIOLOGICAL ANALYSES SHALL BE PERFORMED IN ACCORDANCE WITH RULES 62-555.315(6), 62-555.340 AND 62-555.330 (FAC), AS WELL AS ALL REQUIREMENTS OF THE BROWARD COUNTY HEALTH DEPARTMENT PERMIT.
- 7. THE WATER DISTRIBUTION SYSTEM SHALL NOT BE CONSIDERED COMPLETE AND READY FOR FINAL INSPECTION UNTIL SUCCESSFUL TEST RESULTS ARE OBTAINED FOR ALL TESTS DESCRIBED ABOVE.

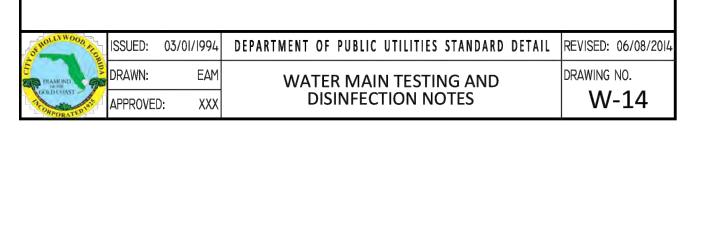


COUNTY HEALTH DEPARTMENT.



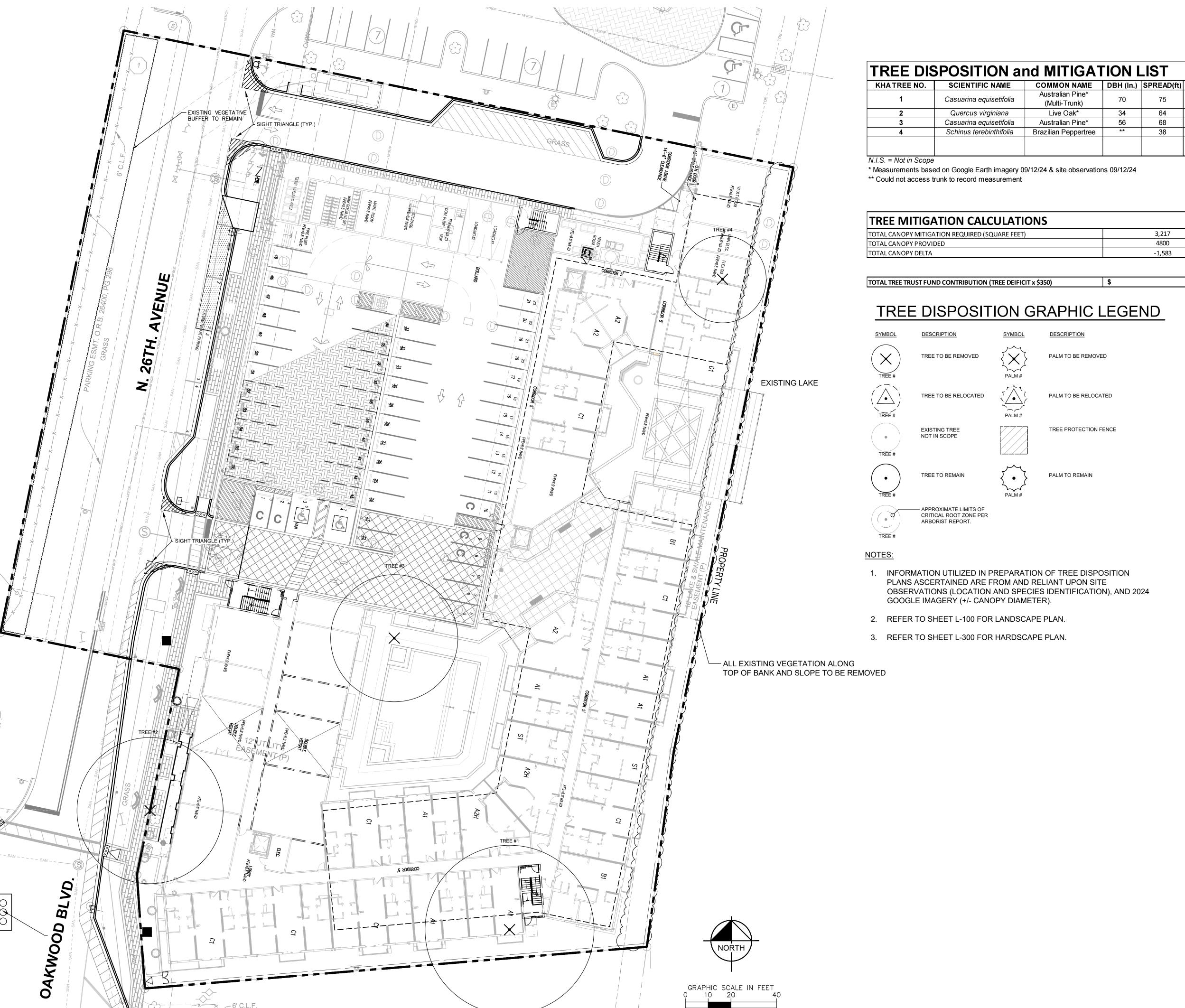
P = THE AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH.

- NOT TO EXCEED 2,000 FEET PER TEST.
- 4. PROPOSED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST CONSECUTIVE DAYS IN ACCORDANCE WITH SPECIFICATION SECTION 15995, "PIPELINE TESTING AND DISINFECTION".



No. 63166

STATE OF



COMMON NAME DBH (In.) | SPREAD(ft) | Height (Ft) | Condition | DISPOSITION MITIGATION Invasive Remove 3216.98816 90 N/A Remove Invasive 25 Remove Invasive TOTAL DBH 3217 REMOVED (IN.)

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

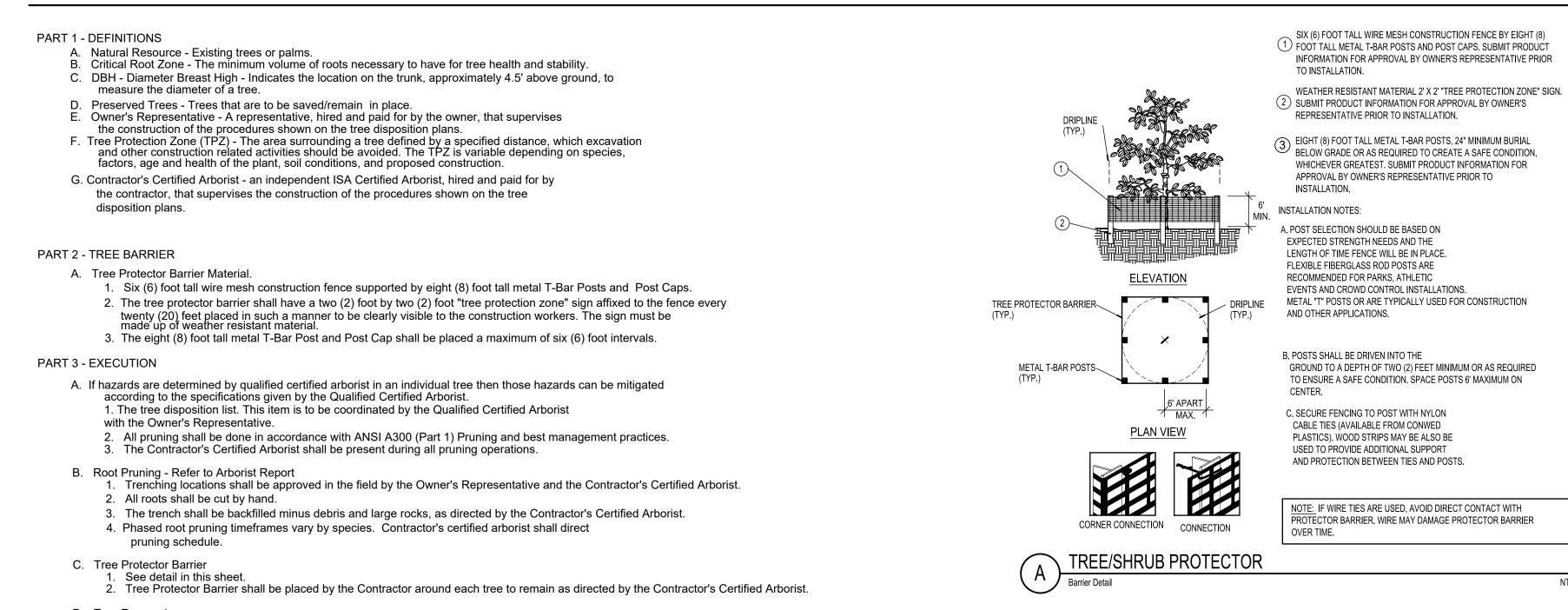
Always call 811 two full business days before you dig to have underground utilities located and marked.



SHEET NUMBER L-000

MITIG/ PLAN

TREE REMOVAL AND TREE TO REMAIN PRUNING SPECIFICATIONS



PART 5 - TREE PROTECTION

PART 4 - PENALTIES

4. Burn pits are not allowed.

A. Repair of Damaged Trees To Remain

A. Contractor's Certified Arborist to determine the location of the Tree Protector Barrier around each tree to remain based on his/her analysis of each existing tree to remain that is adjacent to construction improvements such as utility installation, pavement addition and/or restoration, etc.

3. Contractor shall remove and haul away from the job site all wood generated from tree removals, including stumps, the same day the removal happens.

1. If any damage to trees to remain or other natural resources should occur by accident or negligence during the construction period, shall be immediately

1. Contractor shall remove and discard all trees shown as "Remove" on the Tree Disposition Plan and the Tree Disposition List.

inspected by Qualified Certified Arborist who shall determine the prescription of care at the Contractor's expense.

Tree stump shall be ground below grade. Care shall be taken to not damage the existing trees marked to remain and their critical root zones shall not be compacted by equipment.

Contractor shall maintain and repair the Tree Protector Barrier during site construction operations.

Contractor's access to the fenced tree protection areas will be permitted only with approval of Owner's Representative and Contractor's Certified Arborist's written directive. There shall no be change in grade within the critical root zone as per ANSI Standards.

Contractor shall clear by hand all vegetation to grade within the critical root zones of trees to remain.

2. If Tree Protector Barrier is damaged, repair shall be performed immediately.

Contractor shall not install conduit, sprinklers, or any utility line in any critical root zone areas without the approval of the Contractor's Certified Arborist and Owner's Representative.

PART 6 - IRRIGATION

A. Contractor shall irrigate trees as specified by Landscape Architect and Qualified Certified Arborist.

B. On a monthly basis an irrigation audit shall be conducted by an irrigation specialist for review by Landscape Architect or Qualified Certified Arborist.

SHEET NUMBER L-050

BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE. Always call 811 two full business days before you dig to have underground utilities located and marked.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S