GENERAL NOTES:

- 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.
- 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.
- 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 FO 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
- 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.

DURING CONSTRUCTION UNLESS APPROVED OTHERWISE BY THE UTILITY OWNER.

APPROVED BY THE RESPECTIVE UTILITY OWNER.

- 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
- 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)

OF HOLLYWOOD, FIG.	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, INCLUDE COST IN OTHER ITEMS.
- 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. 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
- 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

PERTINENT APPURTENANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO

- 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
- 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
- 26. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING ILIRISDICTION ANY DISCREPANCIES RETWEEN THESE PLANS AND APPLICABLE REGULATORY

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TON HOLLYWOOD ATO	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED:	11/06/2013
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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.
- 36. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNAL FOR ANY LANE THAT IS CLOSED OR 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.
- 39. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DEWATERING PER SPECIFICATION SECTION 02140 DEWATERING.

HOLLYWOOD ATO	ISSUED:	03/01/1994	DEPARTMENT	OF PUBLIC	UTILITIES	STANDARD	DETAIL	REVISED:	11/06/2017
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VERTICAL BENDS

RESTRAIN ALL FITTINGS

SLOPE UP TO MIN. COVER

CENTER A FULL LENGTH OF PIPE AT THE POINT OF CROSSING

UTILITY CROSSING USING FITTINGS

* REFER TO STANDARD DETAIL G-01.1, "SEPARATION

REQUIREMENTS", FOR FDEP AND HEALTH DEPARTMENT SEPARATION REQUIREMENTS.

UTILITY CROSSING USING JOINT DEFLECTIONS

ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/20

UTILITY CROSSING DETAIL

REFER TO THRUS

DETAILS (G-11 THROUGH

G-11.3) FOR LENGTHS OF PIPE TO RESTRAIN

RAWING NO.

G-04

REFER TO THRUST RESTRAINT NOTES AND

G-11.3) FOR LENGTHS OF PIPE TO RESTRAIN

ANGLES SHALL NOT
EXCEED 50% OF THAT
RECOMMENDED BY THE
PIPE AND/OR FITTING
MANUFACTURER

APPROVED:

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).



BURIED PIPE BELOW. THE TAPE SHALL BE MAGNA TEC, AS MANUFACTURED BY THOR ENTERPRISES INC. OR APPROVED EQUAL

41. WHEN PVC PIPE IS USED, A METALLIZED MARKER TAPE SHALL BE INSTALLED CONTINUOUSLY 18

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

ABOVE THE PIPE. THE MARKER TAPE SHOULD BE IMPRINTED WITH A WARNING THAT THERE IS

- 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
- a. PLAN VIEW SHOWING THE HORIZONTAL LOCATIONS OF EACH MANHOLE, INLET, VALVE, ITTING, BEND AND HORIZONTAL PIPE DEFLECTIONS WITH COORDINATES AND IN REFERENCE TO A SURVEY BASELINE OR RIGHT-OF-WAY CENTERLINE.
- 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
- 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 FEFT 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 TH
- f. ALL CADD FILES MUST BE CREATED FOLLOWING THE CITY OF HOLLYWOOD "SURVEY /

24"x24"x8" THICK-

CONCRETE COLLAR

UNPAVED AREAS ONL

PAVEMEN1

VALVE BOX SHALL NOT-

BODY OF THE VALVE OR

UPON THE PIPE.

	A2-ROI	LI CAD DRA	AWING STANDARDS"		
OKHOLLYWOOD ALL	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED:	11/06/2017
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LID WITH THE WORD

"WATER" OR "SEWER" CAST

EXISTING PAVEMENT

-24"x24"x8" THICK CONCRETE COLLAR

ALL AROUND FOR

PAVED AREAS ONL

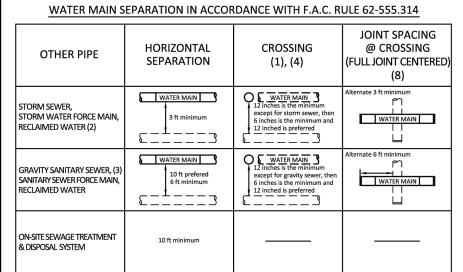
SCREW-ON TYPE VALVE BOX. REFER TO CITY

ACCEPTED MANUFACTURERS

SPECIFICATIONS FOR

AND MODELS

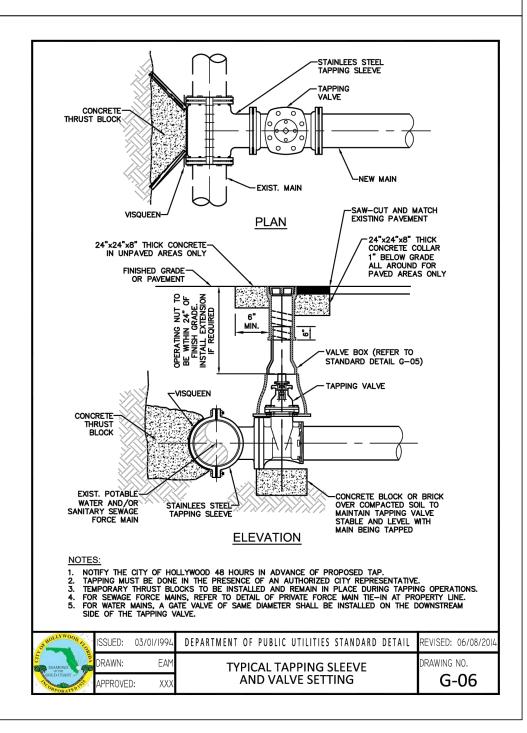
___VALVE BOX BASE

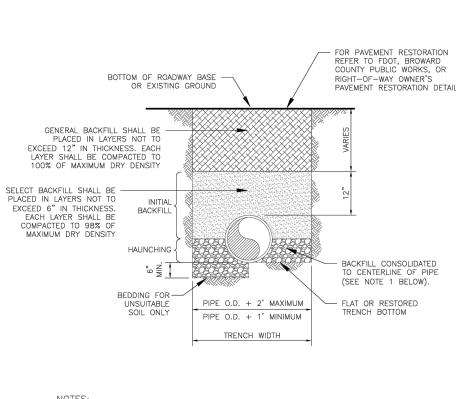


- WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM
- RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.
- 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.

 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.
- 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
- ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALY RESTRAINED.

OF HOLLY WOOD, ATO	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
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CONCRETE COLLAR ALL AROUND FOR UNPAVED AREAS ONLY

GRADE OR PAVEMENT

- . 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".

 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.

OF HOLLYWOOD, FIG.	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/201
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EXISTING PAVEMENT

CONCRETE COLLAR

1" BELOW GRADE

ALL AROUND FOR PAVED AREAS ONLY

- VALVE BOX (REFER TO

STANDARD DETAIL G-05)

GATE VALVE (MECHANICAL JOINTS)

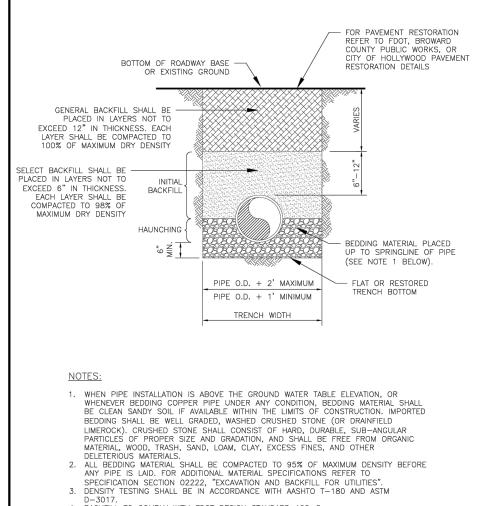
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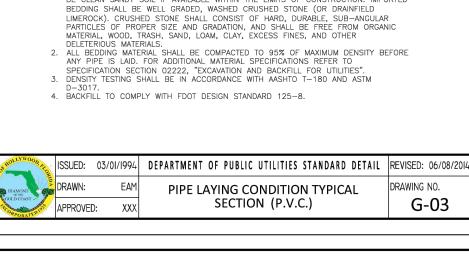
G-07

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

TYPICAL GATE VALVE AND

VALVE BOX SETTING





RESILIENT SEATED GATE VALVE SPECIFICATIONS:

NOMINAL DIAMETER OF THE VALVE.

CLOSING CYCLE.

APPROVED:

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

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

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

ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/20

RESILIENT SEATED GATE VALVE

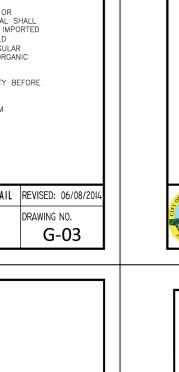
SPECIFICATIONS

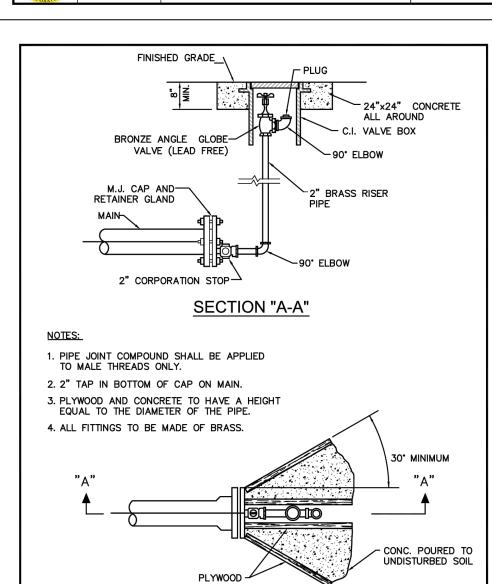
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G-07.1

RESILIENT SEALING MECHANISM SHALL PROVIDE ZERO LEAKAGE AT THE WATER WORKING

O-RING TYPE, ONE ABOVE AND ONE BELOW THE THRUST COLLAR WITH LUBRICANT BETWEEN





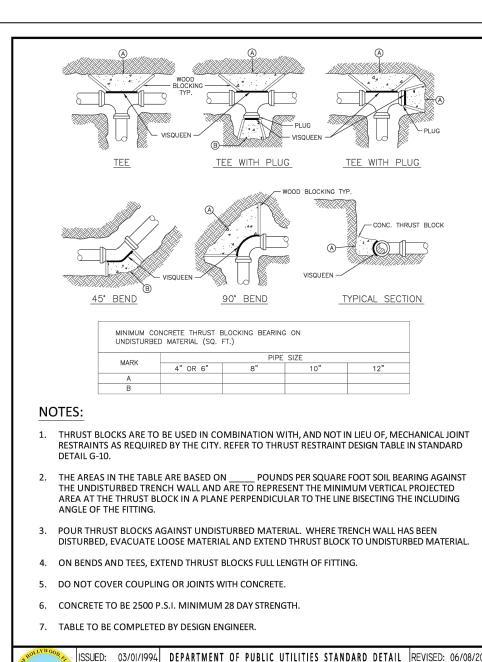
PLAN VIEW

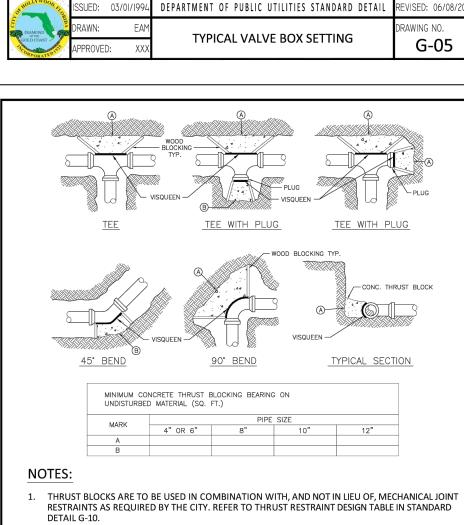
TERMINAL BLOW-OFF DETAIL

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 11/06/2

AWING NO.

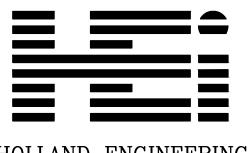
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5	DD AWAI.	EVW						

AIL REVISED: 06/08/20 DRAWING NO. THRUST BLOCK DESIGN G-10 APPROVED:



CIVIL ENGINEERING SOLUTIONS 301 SW 7th Street Fort Lauderdale, Florida 33315 Phone: 954.367.0371

SUSAN C. HOLLAND STATE OF FLORIDA PROFESSIONAL ENGINEER LICENSE No. 41831

Certificate of Authorization 7325



Susan C. Holland, P.E. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

OM RESIDENTIAL

SITE 1: 2007 N. OCEAN DRIVE 309, 333 & 341 OKLAHOMA ST. 320 & 324 MCKINLEY ST.

SITE 2: 2115 N. OCEAN DRIVE 320, 322, 324 & 326 NEBRASKA ST.

2012 N. SURF ROAD HOLLYWOOD, FLORIDA 33019

SITE 3:

REVISIONS NO. DATE BY CHK'D DESCRIPTION

04/02/24 HS | SCH | FINAL TAC

HS DRAWN BY: SCH CHECKED BY:

SHEET TITLE

SCALE:

01/10/24

N.T.S.

CITY GENERAL DETAILS

NO. OF SHEETS:

SHEET NO. C-14

PROJECT NO.

23-29



- 1. ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED. 2. MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. OR P.V.C. PIPE SHALL BE MEGALUG
- AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL
- 3. DUCTILE IRON FITTINGS UP TO 20-INCHES IN DIAMETER SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGALUGS OR APPROVED EQUAL
- 4. DUCTILE IRON FITTINGS 24-INCH IN DIAMETER AND ABOVE SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGALUGS OR APPROVED EQUAL, WITH THE ADDITION OF THRUST BLOCKS AND CONCRETE ANCHORS AT THE DISCRETION OF THE ENGINEER OF RECORD.
- . ANY THRUST BLOCKS AND ANCHORS ARE TO BE DESIGNED BY THE ENGINEER OF RECORD. SIGNED AND SEALED CALCULATIONS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO

🎇 | ISSUED: 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED: 06/08/20

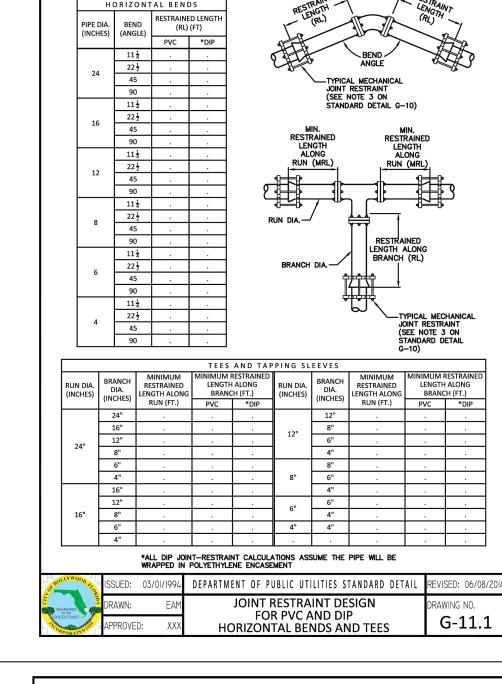
JOINT RESTRAINT DESIGN

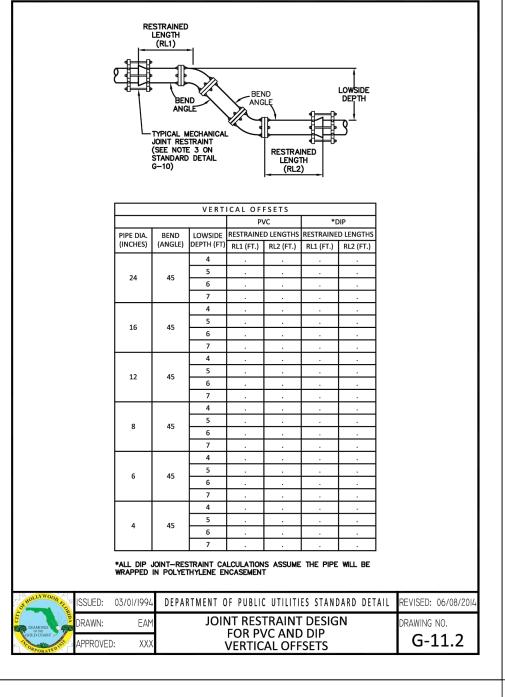
FOR PVC AND DIP

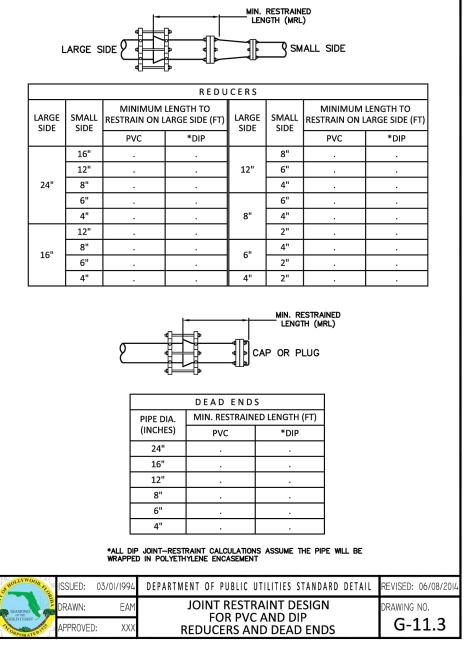
THRUST RESTRAINT NOTES

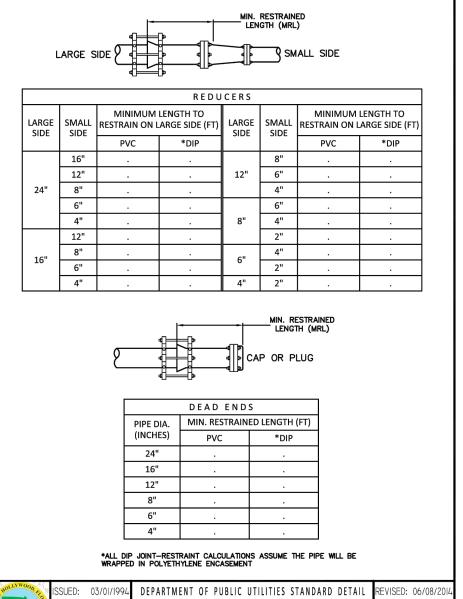
G-11

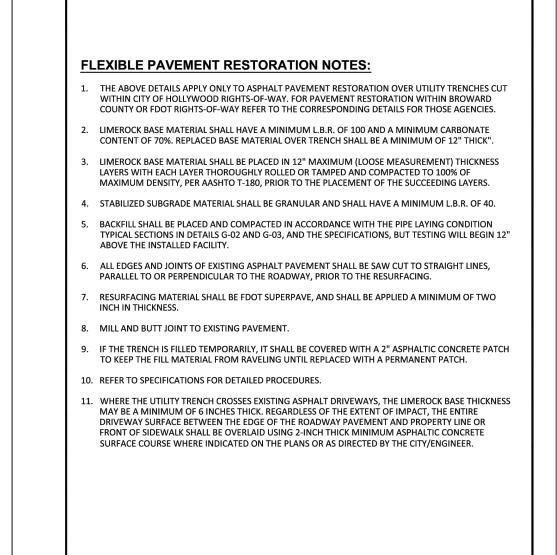
6. THRUST BLOCKS CONSISTING OF POURED-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGH OF 2,500 PSI AFTER 28 DAYS.







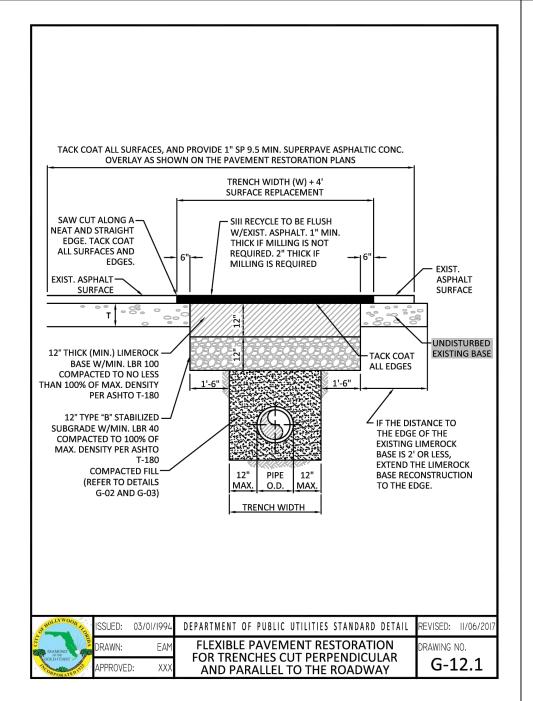


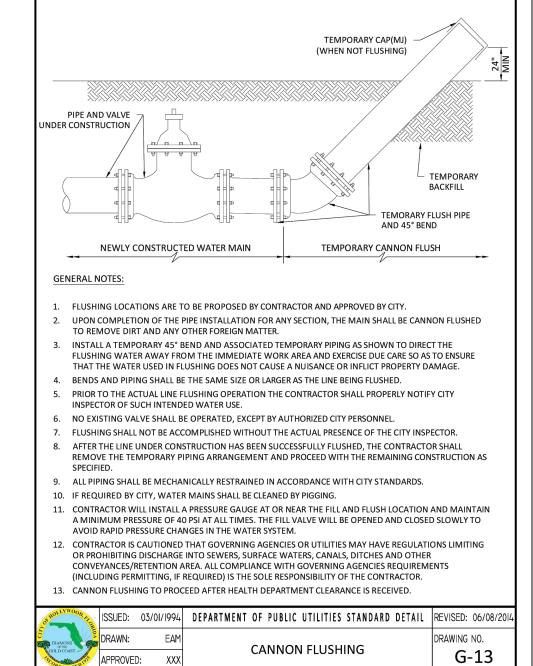


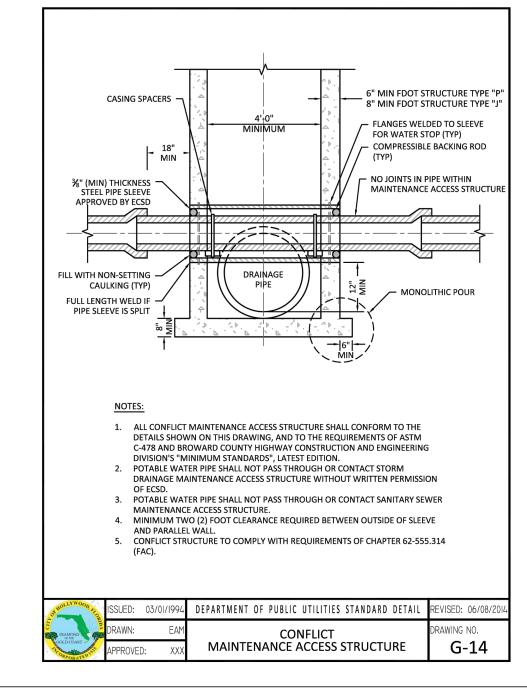
DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

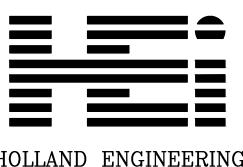
FLEXIBLE PAVEMENT RESTORATION

G-12



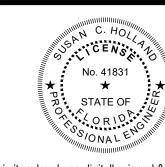






CIVIL ENGINEERING SOLUTIONS 301 SW 7th Street Fort Lauderdale, Florida 33315 Phone: 954.367.0371 Certificate of Authorization 7325

SUSAN C. HOLLAND STATE OF FLORIDA PROFESSIONAL ENGINEER LICENSE No. 41831



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SITE 1: 2007 N. OCEAN DRIVE 309, 333 & 341 OKLAHOMA ST. 320 & 324 MCKINLEY ST.

SITE 2: 2115 N. OCEAN DRIVE 320, 322, 324 & 326 NEBRASKA ST.

2012 N. SURF ROAD

SITE 3:

HOLLYWOOD, FLORIDA 33019

REVISIONS												
NO.	DATE	BY	CHK' D	DESCRIPTION								
1	04/02/24	HS	SCH	FINAL TAC								
DF	RAWN BY	:		HS								
CH	HECKED	BY:		SCH								

SHEET TITLE

SCALE:

01/10/24

N.T.S.

CITY GENERAL DETAILS

NO. OF SHEETS: SHEET NO .: C-15

PROJECT NO.

23-29



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 DEVELOPMENT SERVICES, ENGINEERING, TRANSPORTATION & MOBILITY DIVISION, 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

4. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION. 5. THE CONTRACTOR SHALL NOTIFY PUBLIC UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING 6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER AGENCY SHOP DRAWING APPROVAL, IF

7. ELEVATIONS SHALL BE IN FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). 8. CITY OF HOLLYWOOD SHALL NOT PROVIDE STAGING/STORAGE AREA. CONTRACTOR SHALL SECURE STAGING/STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK. 9. 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. 10. CONTRACTOR SHALL CLEAN/SWEEP THE ROAD AT LEAST ONCE A DAY OR AS REQUIRED BY THE

11. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN/ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY NPDES REGULATIONS. CONSTRUCTION BEFORE 8:00 A.M. AND AFTER 6:00 P.M., MONDAY THROUGH SATURDAY AND ALL DAY SUNDAY. 13. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS 14. 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.

15. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR FOUIPMENT, 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 DEVELOPMENT SERVICES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES. 16. 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 THE CITY. 17. MAIL BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITION.

Air	ISSUED:	MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
	DRAWN:	EG	GENERAL NOTES (1 OF 2)	DRAWING NO.:
7	APPROVED: JG		GENERAL NOTES (1 Of 2)	C-01

18. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX, LATEST EDITION, AND CITY OF HOLLYWOOD DEPARTMENT OF DEVELOPMENT SERVICES STANDARDS. 19. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER. 20. 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

21. 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 CITY ENGINEER. 22. 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

23. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS. 24. 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. 25. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF OFF THE PROPERTY

BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. 26. ALL RAMPS, SIDEWALK CURB RAMPS, AND, ACCESSIBLE ROUTES SHALL BE ADA COMPLIANT AND SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX, LATEST EDITION. 27. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED. 28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL

RAFFIC 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. 29. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES. 30. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN. 31. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNAL FOR ANY LANE THAT IS CLOSED OR DIVERTED.

32. THE CITY PREFERS THAT IT'S OWN POLICE OFFICERS PROVIDE TRAFFIC CONTROL TO ENSURE SAFE AND EFFICIENT INTERSECTION OPERATIONS IS MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION, THEREFORE, PLEASE CONTACT MR. JANEL DIXON TO ARRANGE FOR A DETAIL TO PROVIDE THIS SERVICE. HE MAY BE REACHED AT 954-967-4500 OR VIA EMAIL AT jdixon@hollywoodfl.org. 33. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS REQUIRED, REFER TO BCTED, PAVING MARKINGS AND SIGNS DETAILS PLAN, LATEST EDITION. 34. 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).



IS	SSUED:	MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
D	DRAWN: EG		GENERAL NOTES (2 OF 2)	DRAWING NO.:
A	PPROVE	D: JG	GENERAL NOTES (2 OF 2)	C-02

STANDARD PROCEDURE FOR ROW PERMITS:

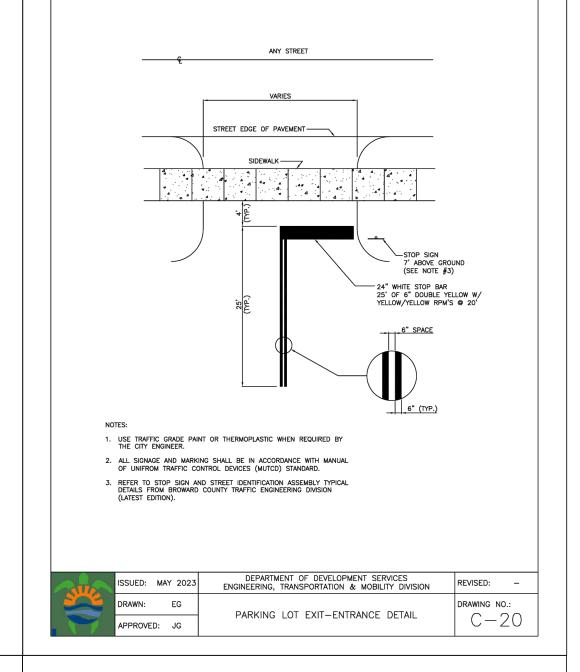
- 1. ENGINEERING DIVISION WILL NOT ISSUE R.O.W. PERMITS UNTIL THE UTILITY COMPANY SCHEDULE AND ATTEND A PRE—CONSTRUCTION MEETING. 2. A REPRESENTATIVE FROM THE UTILITY COMPANY MUST ATTEND THE PRE-CONSTRUCTION MEETING, ALONG
- WITH THE CONTRACTOR AND/OR SUB-CONTRACTOR ACTUALLY PERFORMING THE WORK CONTACT INFORMATION FOR THE UTILITY COMPANY REPRESENTATIVE AND THE CONTRACTOR PERFORMING THE WORK MUST BE PROVIDED FOR EACH PROJECT DURING THE PRE-CONSTRUCTION MEETING. 3. PERMITS WILL BE ISSUED FOR A DEFINED PERIOD OF TIME, AND ARE ONLY VALID DURING THE SPECIFIED TIME. THE PERMIT DURATION WILL BE DETERMINED DURING PLAN REVIEW AND WILL BE BASED ON THE SCOPE OF WORK. THE PERMIT WILL ONLY BE VALID DURING THE TIME PERIOD STATED ON THE APPROVED PLANS.
- . WHEN CROSSING OF THE CITY'S CRITICAL OPERATIONAL INFRASTRUCTURE, WHICH IS GENERALLY ANY UTILITY PIPE SIZES 12" AND GREATER, UTILITY COMPANY MUST SUBMIT A SIGNED LETTER FROM AN AUTHORIZED PERSON FROM THE COMPANY, ACKNOWLEDGING THAT THE PROJECT PROPOSES TO CROSS SUCH INFRASTRUCTURE. THIS LETTER SHOULD BE SUBMITTED DURING INITIAL PERMIT SUBMITIAL TO PREVENT DELAYS IN ISSUANCE OF R.O.W. PERMIT. THE LETTER SHALL BE ACCOMPANIED BY A MAP SHOWING THE LOCATION OF ALL SUCH CRITICAL INFRASTRUCTURE BEING CROSSED AND SUCH MAP SHALL BE ON THE COVER PAGE OF THE PERMIT PLAN SET.
- PERMITS MUST BE ONSITE DURING CONSTRUCTION. ANY CITY EMPLOYEE WITH PROPER IDENTIFICATION CAN STOP AND ASK A CONTRACTOR FOR THEIR PERMITTED SET OF PLANS, AND STOP WORK FOR ANY CONTRACTOR WHO DO NOT PRESENT A VALID PERMITED SET OF PLANS. A CONTRACTOR WORKING OUTSIDE OF THE PERMIT ISSUANCE WINDOW IS CONSIDERED TO BE WORKING WITHOUT A PERMIT, AND WILL BE SUBJECT TO ISSUANCE OF A VIOLATION FOR DOING WORK WITHOUT A PERMIT. VIOLATIONS FOR
- WORK WITHOUT A PERMIT CAN RESULT IN SUSPENSION OF A CONTRACTOR'S ABILITY TO OBTAIN PERMITS 6. WHEN A PROPOSED UTILITY CROSSES AN EXISTING CITY GRAVITY SANITARY SEWER OR DRAINAGE PIPE, THE UTILITY COMPANY MUST TELEVISE THE PIPE, AND PROVIDE VIDEO AT THE POINT OF CROSSING. A CLEAR SKETCH WITH DIMENSIONS MUST BE PROVIDED IDENTIFYING THE CROSSING POINT. THIS HAS TO
- BE DONE PRIOR TO SCHEDULING FINAL INSPECTION. WHENEVER A PROPOSED UTILITY CROSSES EXISTING CITY UTILITIES, THE DEPTH OF THE EXISTING CITY WHENEVER A PROPOSED VIRITY CROSSES EXISING CITY UNLITTES, THE DEPTH OF THE EXISTING CITY UTILITIES MUST BE FIELD VERIFIED VIA SOFT DISS, OR OTHER ACCEPTABLE METHODS THAT CAN ACCURATELY DETERMINE THE TRUE DEPTH OF THE EXISTING UTILITY. IF A METHOD OTHER THAN SOFT DIG IS UTILIZED TO IDENTIFY THE DEPTH OF EXISTING UTILITIES, THE PERMITTEE MUST NOTIFY THE CITY OF THE METHOD, AND PROVIDE INFORMATION ATTESTING TO THE ACCURACY OF THE METHOD. MINIMUM VERTICAL AND HORIZONTAL SEPARATIONS NOTED ON THE APPROVED PLANS MUST BE PROVIDED.
- 8. PRIOR TO FINAL INSPECTION, AN AS-BUILT PLAN AND BORE LOG MUST BE SUBMITTED TO THE CITY FOR REVIEW. THE AS-BUILT PLAN MUST CLEARLY IDENTIFY THE DEPTH OF THE CITY'S EXISTING UTILITY AT THE POINT WHERE THE NEWLY INSTALLED UTILITY CROSSES IT, AND THE DEPTH AT WHICH THE NEW UTILITY WAS INSTALLED. THIS IS TO VERIFY THAT PROPER SEPARATION DISTANCES HAVE BEEN PROVIDED.

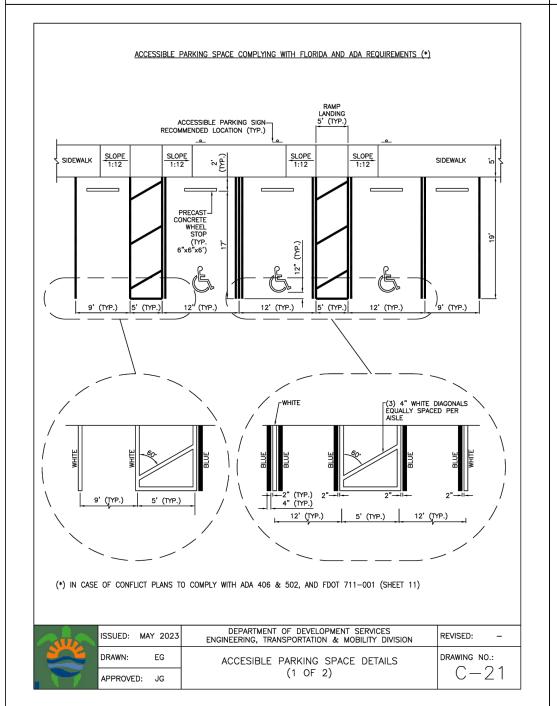
DEPARTMENT OF DEVELOPMENT SERVICES

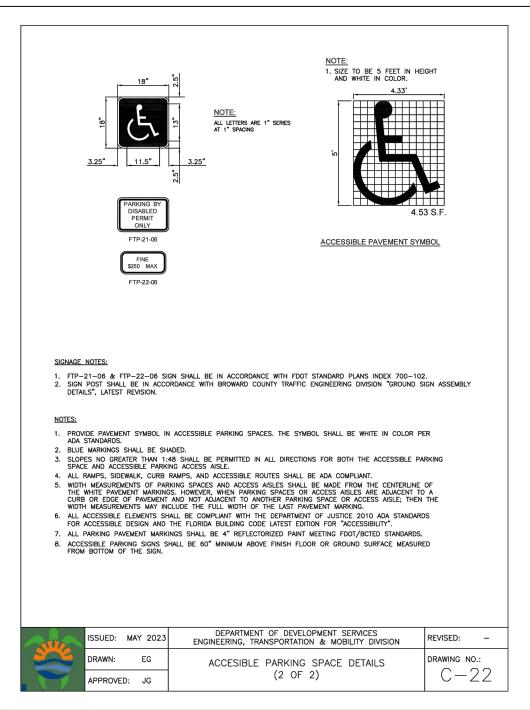
ROW PERMITS STANDARD PROCEDURE

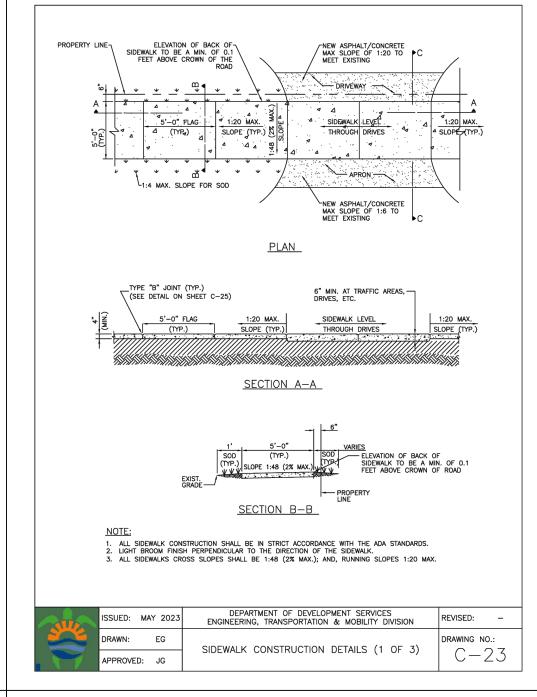
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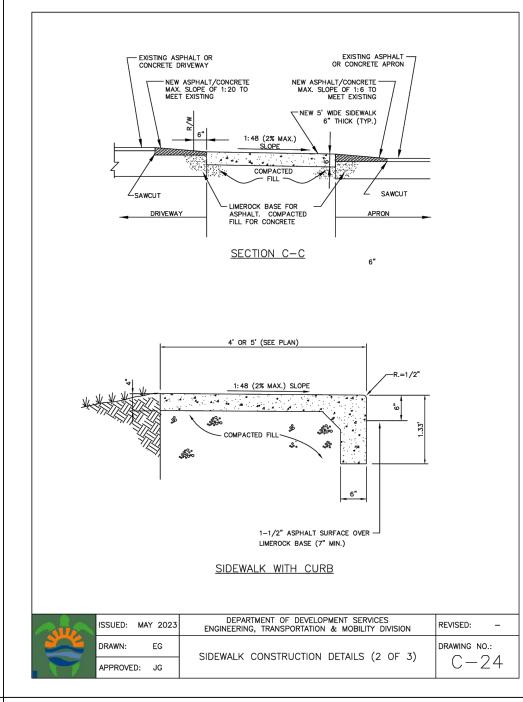
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B LIM OF MIN C SAN O COP E JOH	TABLE SUBGRADE (SEE N EROCK BASE COMPACTE MAX. DENSITY AS DETER IMUM THICKNESS REQUIR 4" ON PRIVATI ND BEDDING COURSE, 2" NCRETE SEGMENTAL PAVIR NT-FILLING SAND	O TO A MIN. OF 98% MINED BY AASHTO T-180 EDIC: RIGHT OF WAY E PROPERTY TYPICAL.	TRAFFIC OR UNSUITABLE SPECIAL PAVEMENT STRUC DESIGN. 2. SURFACE DRAINAGE: GRADE OF 2% TO SWALE 3. THIS IS A NON-STA CONSTRUCTION AND AN A	

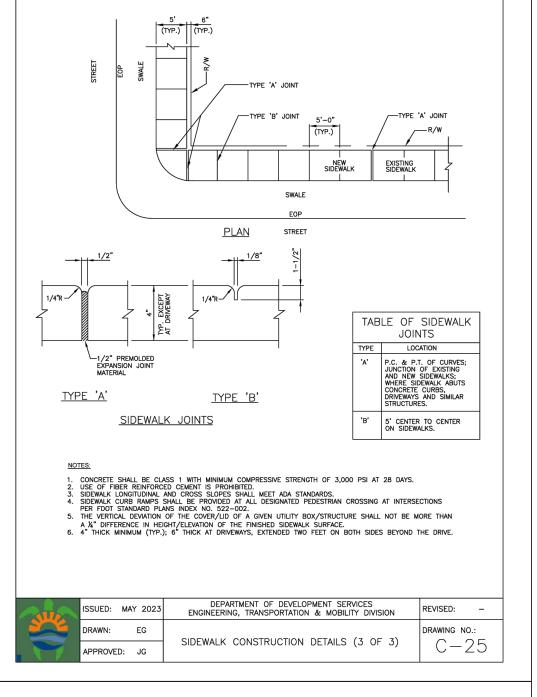


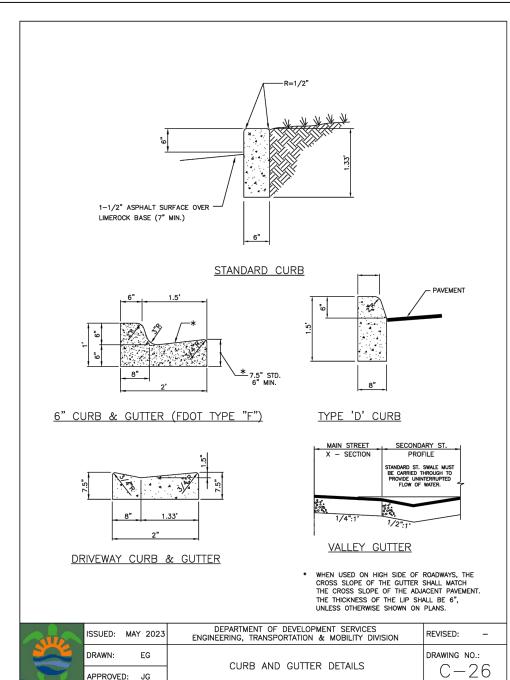


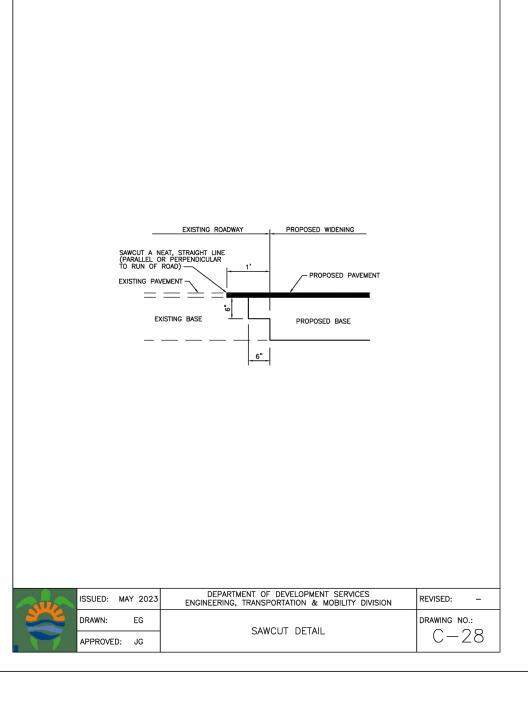


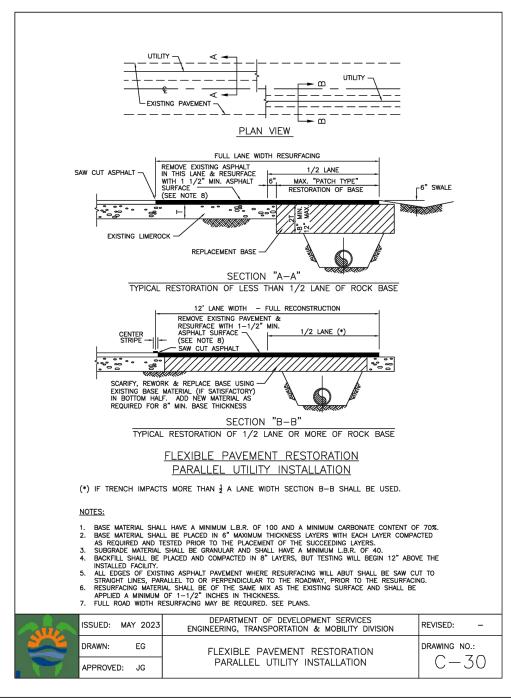


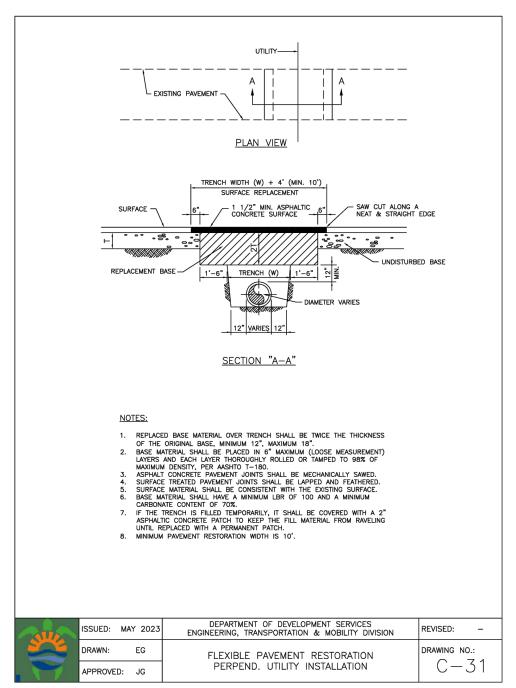


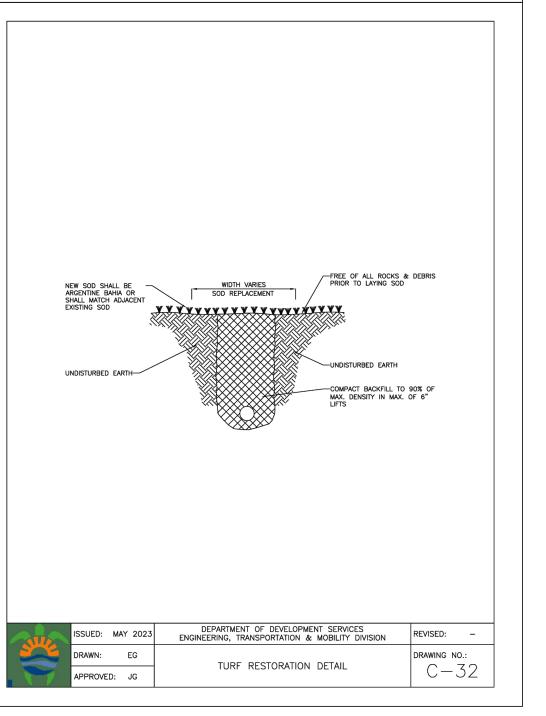


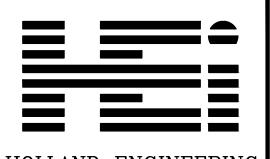








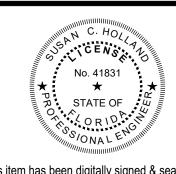




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Г		RE	VISI	ONS
NO.	DATE	BY	CHK' D	DESCRIPTION
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DRAWN BY: SCH CHECKED BY: 01/10/24 SCALE: N.T.S.

SHEET TITLE

ENGINEERING DETAILS

NO. OF SHEETS:

SHEET NO. C-16

PROJECT NO.

23-29

SEWER NOTES:

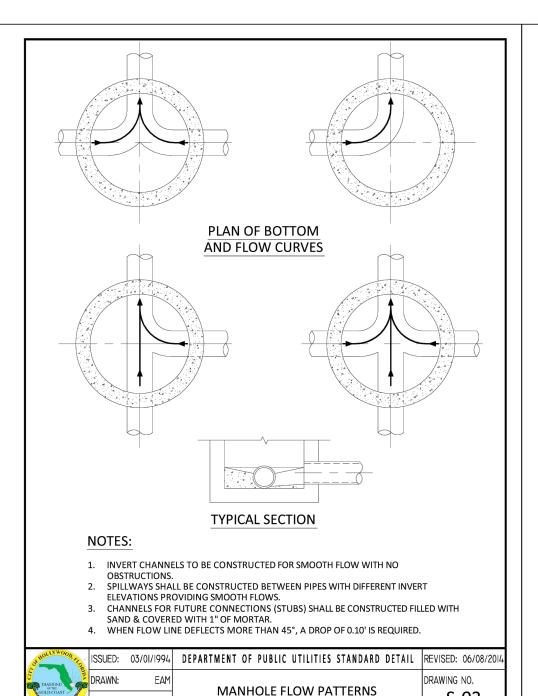
- THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".
- 2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE 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 CONTRACTOR.
- 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 TESTED.
- 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:

$\frac{L = S \times D \times \sqrt{P}}{148,000}$

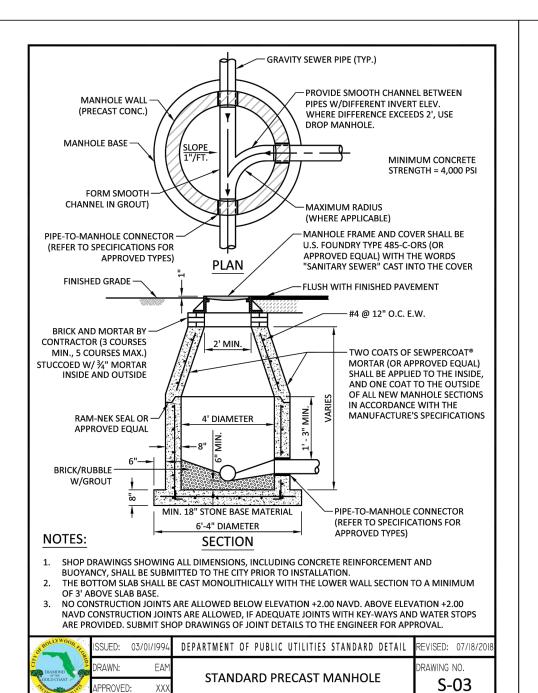
L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR
D = PIPE DIAMETER IN INCHES
S = LENGTH OF LINES IN LINEAL FEET
P = AVERAGE TEST PRESSURE IN PSI

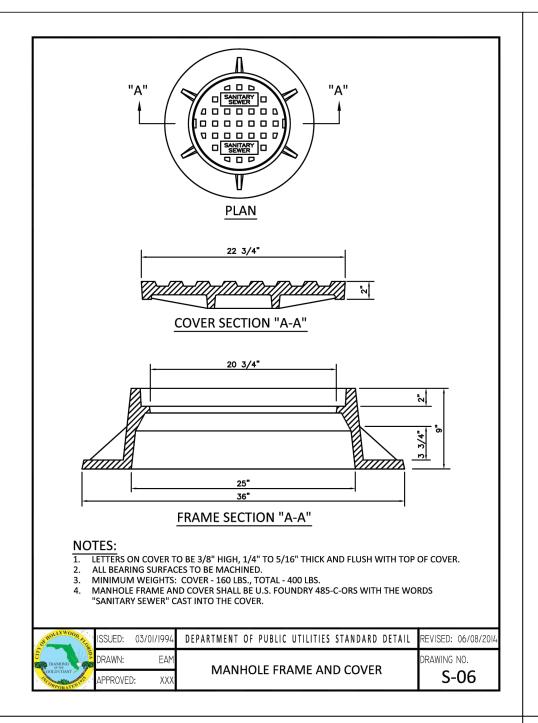
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTYFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE 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.

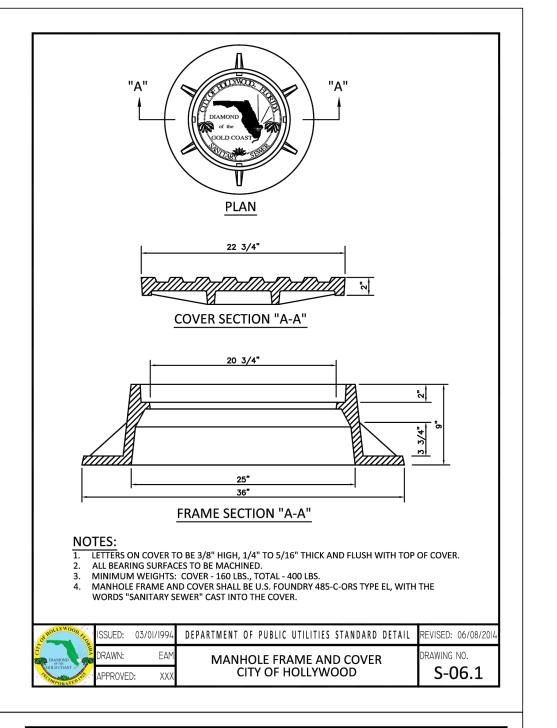


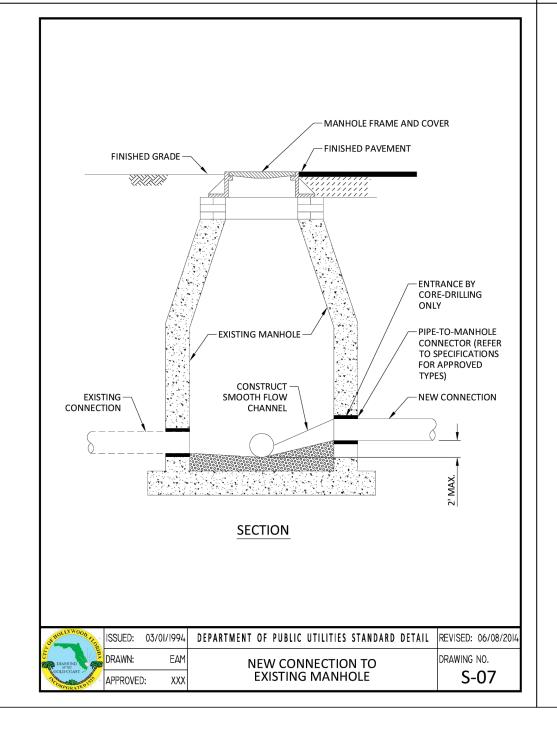


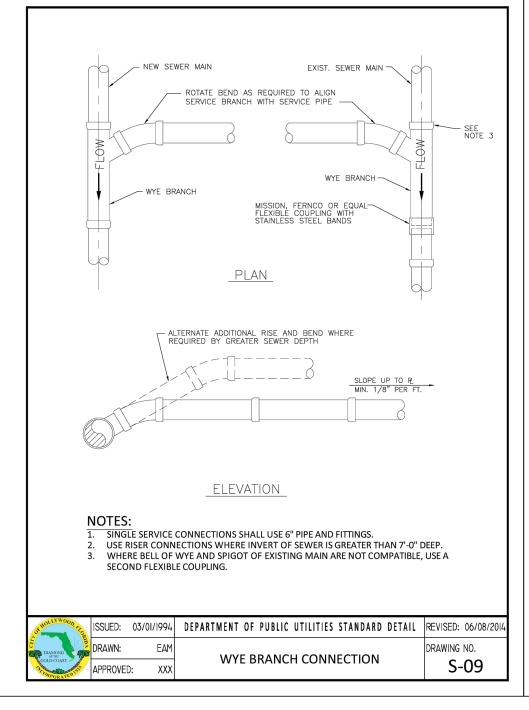
S-02



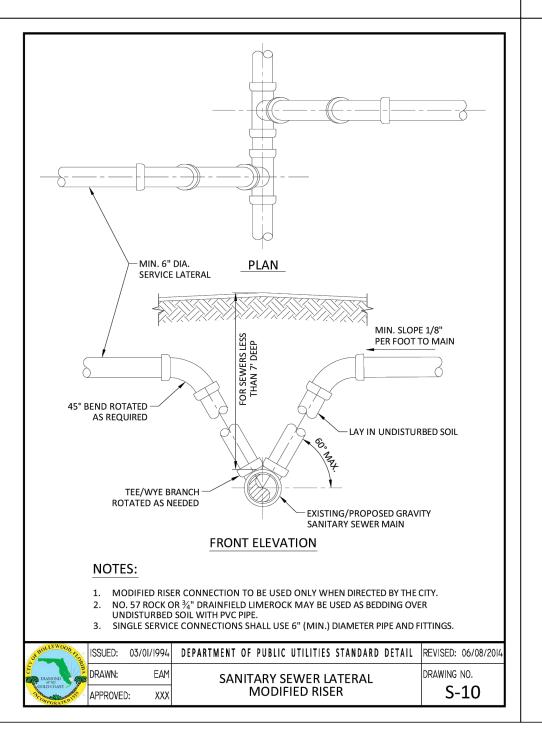


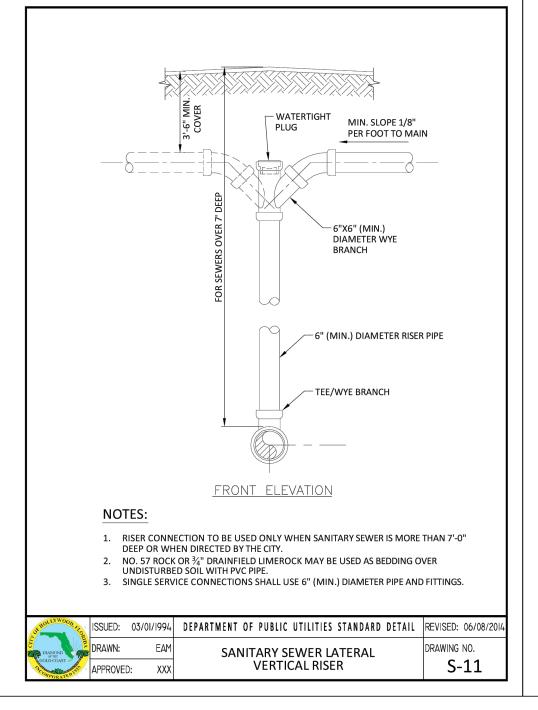


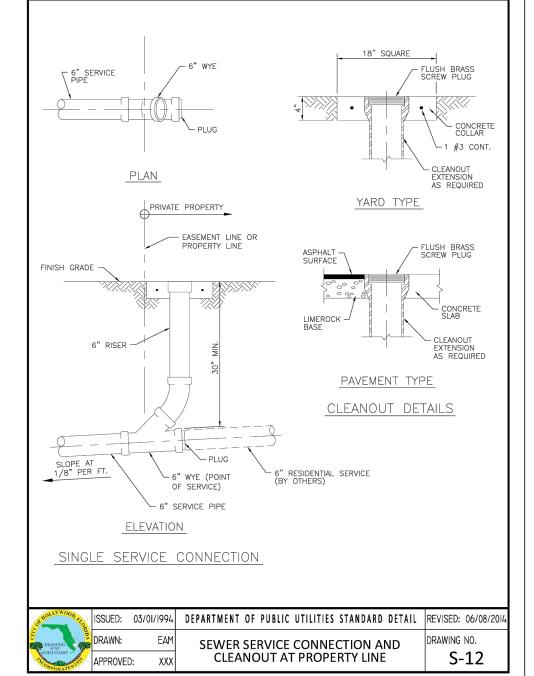




APPROVED:





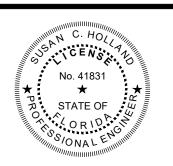




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DRAWN BY: HS				
CHECKED BY:				SCH
DATE:				01/10/24

SHEET TITLE

N.T.S.

SCALE:

CITY SEWER DETAILS

NO. OF SHEETS: 20

SHEET NO.: C-17

PROJECT NO. 23-29