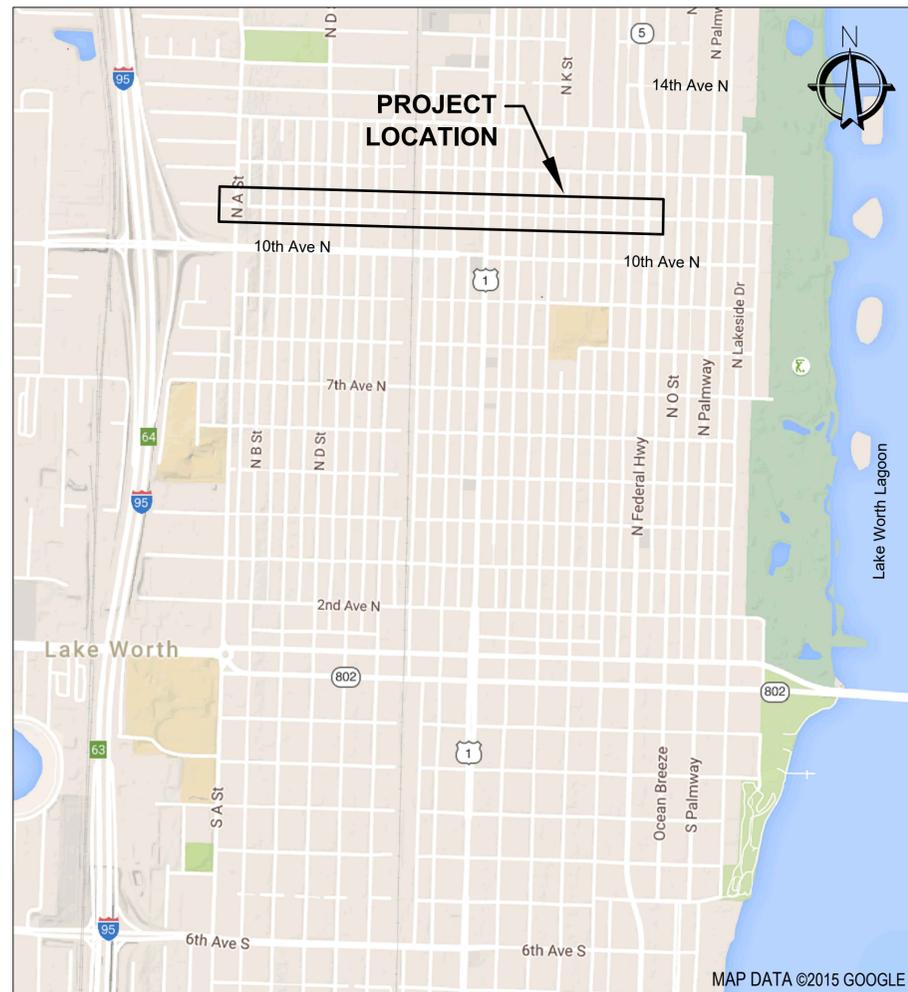


11TH AVENUE NORTH SEWER IMPROVEMENTS FROM NORTH "A" STREET TO NORTH FEDERAL HIGHWAY

PREPARED FOR
CITY OF LAKE WORTH
PALM BEACH COUNTY, FLORIDA

JUNE 2016
SOLICITATION NO. IFB-16-119
PROJECT NO. LS1608



VICINITY MAP
N.T.S.

SECTION 21, TOWNSHIP 44 SOUTH, RANGE 43 EAST



CITY COMMISSION

PAM TRIOLO, MAYOR
SCOTT MAXWELL, VICE MAYOR
CHRISTOPHER MCVOY
ANDY AMOROSO
RYAN MAIER

BRIAN SHIELDS, P.E., WATER UTILITIES DIRECTOR
JULIA PARHAM, P.E., WATER UTILITIES ENGINEER

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TOTAL NO. OF SHEETS - 14	



PLOT DATE: Jul 01, 2016 - 1:30pm XREFS: K:\w\11a\map\dwg\11a\11a.dwg IMAGES: 11a\11a.dwg

BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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NO.	DATE	BY	REVISION

SEAL
SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081
DATE

FLORIDA E.B. NO. 48

MOCK • ROOS
ENGINEERS • SURVEYORS • PLANNERS

5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, Fax 478-7248

FLORIDA L.B. NO. 48

FIELD: ---
DRAWN: YM
DESIGN: SMH
APPR: JRL
SCALE: AS SHOWN

11TH AVENUE NORTH SEWER IMPROVEMENTS
FROM NORTH "A" STREET TO
NORTH FEDERAL HIGHWAY
CITY OF LAKE WORTH
PALM BEACH COUNTY, FLORIDA

DATE:	JUNE 2016
P.A. NO.	B5017.00
DWG. NO.	44-43-21-200
SHEET:	C0-1

LEGEND

BP	BEGINNING POINT
BOC	BACK OF CURB
BIL	BASELINE
	BENCHMARK
BOT	BOTTOM
	CATCH BASIN
	CENTERLINE
CIPP	CURED IN PLACE PIPE
CONC.	CONCRETE
DIA.	DIAMETER
	DRAINAGE MANHOLE
DIP	DUCTILE IRON PIPE
E.	EASTING
EOP	EDGE OF PAVEMENT
EP	ENDING POINT
EPB	EDGE OF PAVER BRICK
EL	ELEVATION
EXIST	EXISTING
--- CTY ---	EXISTING CABLE TV
--- OHW ---	EXISTING OVERHEAD WIRE
--- SS ---	EXISTING SANITARY SEWER
--- FOC ---	FIBER OPTIC CABLE
	FIRE HYDRANT
FD	FOUND
--- FM ---	FORCEMAIN
--- GAS ---	GAS MAIN
HDPE	HIGH-DENSITY POLYETHYLENE PIPE (FLEX PIPE)
INV	INVERT
IP	IRON PIPE
IR	IRON REBAR
IRC	IRON REBAR AND CAP
LF	LINEAR FEET
MAG&D	MAG NAIL AND DISK STAMPED "MR LB048"
MH	MANHOLE NUMBER
	MILL AND OVERLAY

N&D	NAIL AND DISK STAMPED "MR LB048"
N:	NORTHING
NA	NOT ACCESSIBLE
OHW	OVERHEAD WIRE
PG(S)	PAGE(S)
PB	PLAT BOOK
(P)	PLAT BOOK 2, PAGES 29-40
PVC	POLYVINYL CHLORIDE
R	RADIUS
RR	RAILROAD
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
R/C	ROD AND CAP
SS	SANITARY SEWER
	SANITARY SEWER MANHOLE
STA	STATION
STRM	STORM SEWER
	STREET SIGN
STR	STRUCTURE
	TEST HOLE
TOC	TOP OF CURB
	TRAFFIC HANDHOLD
TYP	TYPICAL
--- USE ---	UNDERGROUND ELECTRIC
UNP	UNIDENTIFIED PIPE MATERIAL
??	UNIDENTIFIED PIPE SIZE
UTIL	UTILITIES
VCP	VITRIFIED CLAY PIPE
--- WM ---	WATERMAIN
	WATER VALVE
	WOOD POLE STREET LIGHT
	WOOD POWER POLE

SURVEYOR'S NOTES (MOCK•ROOS):

- SURVEY CONTROL AND COORDINATES SHOWN HEREON CONFORM TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, TRAVERSE MERCATOR EAST ZONE, ON THE NORTH AMERICAN DATUM OF 1983, 1990 ADJUSTMENT (NAD83/90), DERIVED USING GLOBAL POSITIONING SYSTEM (GPS) CONTROL ON THE FOLLOWING PALM BEACH COUNTY GPS CONTROL POINTS:

CONTROL POINT	NORTHING	EASTING
"T.L. SCOTT"	835056.458	970178.080
"POLICE S-1"	840449.565	956638.994
"1-95 10th AVE OFFSET"	835067.512	960757.324
- BEARINGS SHOWN HEREON ARE BASED ON A CALCULATED BEARING OF SOUTH 88°38'15" EAST ALONG THE NORTH AND SOUTH RIGHT-OF-WAY LINES OF 11th AVENUE NORTH BASED ON EXISTING MONUMENTATION.
- THE UNDERSIGNED MAKES NO REPRESENTATION OR GUARANTEES AS TO THE INFORMATION REFLECTED HEREON PERTAINING TO EASEMENTS, RIGHTS-OF-WAY, SETBACK LINES, AGREEMENTS AND OTHER MATTERS, AND FURTHER, THIS INSTRUMENT IS NOT INTENDED TO REFLECT OR SET FORTH ALL SUCH MATTERS. SUCH INFORMATION SHOULD BE OBTAINED AND CONFIRMED BY OTHERS THROUGH APPROPRIATE TITLE VERIFICATION. THIS SURVEY IS NOT INTENDED TO DELINEATE THE REGULAR JURISDICTION OF ANY FEDERAL, STATE REGIONAL OR LOCAL AGENCY, BOARD, COMMISSION OR OTHER ENTITY. ALL INFORMATION SHOWN HEREON MUST BE FIELD VERIFIED BEFORE USE IN PLANNING, DESIGN OR CONSTRUCTION.
- ALL ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). VERTICAL CONTROL IS BASED ON THE FOLLOWING REFERENCE BENCHMARKS:

REFERENCE BENCHMARK NO. 1: A PALM BEACH COUNTY BRASS DISK IN CONCRETE STAMPED "TALL BALL" AT THE NORTHEAST CORNER OF INTERSTATE I-95 AND 6th AVENUE SOUTH IN A TRIANGULAR GRASS MEDIAN, LOCATED 14 FEET NORTH OF THE NORTH EDGE OF PAVEMENT OF 6th AVENUE SOUTH, 4.9 FEET SOUTH OF THE SOUTHWEST CORNER OF A CONCRETE POWER POLE AND 8.4 FEET SOUTH OF THE SOUTHEAST CORNER OF A TRAFFIC BOX.
 N 828170.41 E 960761.06 EL 19.123 NGVD29

REFERENCE BENCHMARK NO. 2: MOCK ROOS BM#17, AN X-CUT AT THE BACK OF THE CONCRETE SIDEWALK ON THE EAST SIDE OF NORTH "A" STREET, APPROXIMATELY 200 FEET SOUTH OF THE SOUTH RIGHT-OF-WAY LINE OF 11th AVENUE NORTH.
 N 835202.66 E 961749.95 EL 37.954 NGVD29

REFERENCE BENCHMARK NO. 3: A U.S. COAST AND GEODETIC SURVEY BENCHMARK SET IN A CONCRETE POST STAMPED "N 233 1965" 1.0 FOOT BELOW THE LEVEL OF THE PAVEMENT AT THE INTERSECTION OF 13th AVENUE NORTH AND THE FLORIDA EAST COAST RAILROAD, LOCATED 47.2 FEET WEST OF THE NEAR RAIL, 32.8 FEET NORTH OF THE CENTER OF 13th AVENUE NORTH AND 1.0 FOOT NORTHEAST OF UTILITY POLE NUMBER 1-1016.
 N 836293.69 E 963493.47 EL 16.532 NGVD29
- NO SEARCH OF THE PUBLIC RECORDS WAS PERFORMED BY MOCK ROOS AND ASSOCIATES, INC. PROPERTY LINES SHOWN HEREON ARE FOR GRAPHIC REPRESENTATION ONLY, ARE BASED ON PALM BEACH COUNTY GEOGRAPHIC INFORMATION SYSTEM (GIS) MAPS AND ARE NOT TO BE CONSTRUED AS FIELD SURVEYED.
- MEASUREMENTS SHOWN HEREON ARE EXPRESSED IN U.S. FEET AND DECIMAL PARTS THEREOF UNLESS NOTED OTHERWISE.
- DATES OF FIELD SURVEY: SEPTEMBER 8 - SEPTEMBER 27, 2010.

SURVEYOR'S NOTES (DENNIS J. LEAVY & ASSOCIATES, INC.):

- DENNIS J. LEAVY & ASSOCIATES, INC. MAKES NO REPRESENTATIONS OR GUARANTEES AS TO THE INFORMATION REFLECTED HEREON PERTAINING TO EASEMENTS, RIGHTS OF WAY, SETBACK LINES, AGREEMENTS AND OTHER MATTERS, AND FURTHER, THIS SURVEY IS NOT INTENDED TO REFLECT SUCH MATTERS. SUCH INFORMATION SHOULD BE OBTAINED AND CONFIRMED BY OTHERS THROUGH APPROPRIATE TITLE VERIFICATION. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS OF WAY AND/OR EASEMENTS OF RECORD.
- UNDERGROUND APPARENT USE AND/OR IMPROVEMENTS HAVE NOT BEEN SHOWN UNLESS OTHERWISE NOTED.
- DATE OF FIELD SURVEY: AUGUST 7, 11, 12, & 13 OF 2015.
- BEARINGS DEPICTED HEREON ARE BASED UPON THE LINE BETWEEN PALM BEACH COUNTY CONTROL MONUMENTS "A1A LAKE" AND "1-95 10TH AVE OFFSET". SAID LINE BEING MONUMENTED AND HAVING A BEARING OF NORTH 64°04'58" WEST BASED UPON THE NORTH AMERICAN DATUM OF 1983, ON THE 1990 ADJUSTMENT FOR THE FLORIDA TRANSVERSE MERCATOR - EAST ZONE.
- THIS SURVEY LIES WITHIN SECTION 21 & 22, TOWNSHIP 44 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA.
- BY GRAPHIC PLOTTING ONLY, THE PROPERTY SHOWN HEREON IS LOCATED IN FLOOD INSURANCE RATE MAP FLOOD ZONE C, AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 120213 0001 C, MAP REVISED SEPTEMBER 30, 1982.
- THE ELEVATIONS REFERRED TO ON THE FLOOD INSURANCE RATE MAP REFERENCE THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). MEASUREMENTS SHOWN HEREON ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED.
- BENCHMARKS OF ORIGIN: PALM BEACH COUNTY ENGINEERING DEPARTMENT CONTROL STATIONS "N-233" AND "K 402" WHOSE PUBLISHED ELEVATIONS ARE 16.532' AND 17.215' RESPECTIVELY.
- ELEVATIONS REFERENCED HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY OF LAKE WORTH REGULATIONS.
- SEE SURVEY NOTES FOR HORIZONTAL AND VERTICAL DATUM INFORMATION.
- CONTRACTOR SHALL VERIFY SURVEY DATA ON THE DRAWINGS PRIOR TO BEGINNING LAYOUT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD REVIEW OF EXISTING CONDITIONS AND FOR CONFIRMING EXISTING SIZES, DIMENSIONS, ETC.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SEWER FLOWS DURING CONSTRUCTION AND SHALL SUBMIT A BYPASS SERVICE PLAN FOR APPROVAL.
- EXISTING SANITARY MANHOLE NUMBERS CORRESPOND TO THE PLANS "CITY OF LAKE WORTH SANITARY SEWAGE SYSTEM," IN 31 SHEETS, DATED FEBRUARY 1996 (LATEST REVISION MAY 2002), PREPARED BY MOCK•ROOS (MOCK•ROOS DWG. NO. 44-43-15-90).
- ALL LOCATIONS AND ELEVATIONS SHOWN FOR EXISTING GRADES FOR SURFACE AND SUBSURFACE STRUCTURES, PIPING, ETC. ARE BASED ON RECORD DRAWINGS AND THE BEST AVAILABLE INFORMATION, WHILE EVERY ATTEMPT HAS BEEN MADE TO PROVIDE ACCURATE DATA, THE CONTRACTOR SHALL CONSIDER ALL LOCATIONS AND ELEVATIONS APPROXIMATE IN NATURE. PRIOR TO THE START OF CONSTRUCTION AND/OR ORDERING OF ANY MATERIALS OR FABRICATED ITEMS, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS AND ELEVATIONS. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" STRUCTURES, UTILITIES, ETC. NOT SHOWN ON THE DRAWINGS EXIST WITHIN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION AND WRITTEN NOTIFICATION OF ALL CONFLICTS WITH THE PROPOSED CONSTRUCTION TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL ALL CONFLICTS HAVE BEEN RESOLVED.
- THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (800-432-4770 OR 811) FOR LOCATES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL, DISPOSAL, ABANDONMENT, AND RELOCATIONS NECESSARY TO COMPLETE THE WORK WHETHER SHOWN ON THE DRAWINGS OR NOT. CONTRACTOR SHALL COORDINATE RELOCATIONS WITH THE NECESSARY UTILITY COMPANIES.
- CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION BY THE CONTRACTOR'S ACTIVITIES INVOLVING CONSTRUCTION, STAGING AREAS, AND ACCESS ROADS IN KIND. ALL DISTURBED NON-PAVED AREAS SHALL BE REPLACED IN KIND.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF LANDSCAPED AREAS, ROADWAYS, DRIVEWAYS, SIDEWALKS, CURBS, OPEN AREAS, WALKS, FENCING, SOD, ETC. TO PRE-CONSTRUCTION CONDITIONS. SOD ALL GRASSED AREAS DISTURBED BY CONSTRUCTION IN KIND. THE CONTRACTOR SHALL PROTECT EXISTING ITEMS AND LANDSCAPING ADJACENT TO THE AREA OF CONSTRUCTION TO THE MAXIMUM EXTENT POSSIBLE.
- CONTRACTOR SHALL REMOVE AND REINSTALL ALL EXISTING SIGNS WITHIN THE LIMITS OF CONSTRUCTION. ANY SIGNS DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL BY ALL REGULATING ENTITIES A MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE ENTIRE PROJECT LIMITS WHERE VEHICULAR AND PEDESTRIAN TRAFFIC NORMALLY MOVES INCLUDING STREETS THAT CROSS PERPENDICULAR TO THE LINE OF CONSTRUCTION. PROVISIONS SHALL BE MADE FOR POLICE, FIRE/RESCUE, GARBAGE REMOVAL, AND OTHER MUNICIPAL SERVICES. DRIVEWAY ACCESS SHOULD BE RESTORED AT THE END OF EACH WORK DAY.
- GENERAL CLUTTER AND DUMPED DEBRIS THAT EXISTS WITHIN THE SANITARY SEWER ROUTE AND OTHER CONFLICTS WITH CONSTRUCTION SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF SITE ON A WEEKLY BASIS. THE COST OF THIS EFFORT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE SANITARY SEWER.
- ALL DEMOLITION SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL LAWS, RULES, AND ORDINANCES PERTAINING TO THE DEMOLITION OF MATERIALS.
- CONTRACTOR SHALL MAINTAIN A NEAT, ORDERLY, AND SAFE SITE AT ALL TIMES.
- CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS TURBIDITY CURTAINS, SILT FENCES AND FLOATING SILT BARRIERS WHERE NECESSARY IN ORDER TO COMPLY WITH THE STATE AND LOCAL WATER QUALITY STANDARDS AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ANY NPDES REQUIREMENTS THROUGH FINAL COMPLETION.
- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH CHAPTER 556 OF THE FLORIDA STATUTES: THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT.
- ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY, INVOLVED UTILITY COMPANIES, PROJECT ENGINEER AND REGULATORY AGENCIES.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY REPRESENTATIVE FOR THE SELECTION OF PROPOSED CONSTRUCTION STAGING AREAS AND/OR STOCKPILING OF MATERIALS.
- STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- ALL STRUCTURE AND INLET STATIONS AND OFFSETS ARE FOR THE

- CENTER OF THE STRUCTURE, UNLESS OTHERWISE NOTED.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED OR MARKED USING GREEN AS A PREDOMINANT COLOR. PIPE WILL BE SOLID-WALL GREEN PIPE OR STRIPED WITH 2" WIDE BANDS. PIPE WITH STRIPES SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE.
- ALL UTILITIES SHALL BE ADJUSTED TO NEW FINISH GRADES AND PROPERLY SET TO PAVEMENT CROSS SLOPE WITHIN THE LIMITS OF CONSTRUCTION, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE INSTALLING FINAL LIFT OF ASPHALT.
- VARIABLE HEIGHT CURB MAY BE USED WHERE NECESSARY TO PROVIDE POSITIVE DRAINAGE FROM ADJACENT PROPERTIES. WHERE EXISTING SIDEWALK IS ADJACENT TO CURB REPLACEMENT, THE TOP OF THE NEW CURB SHALL BE THE SAME ELEVATION OF THE FRONT OF THE SIDEWALK.
- CONTRACTOR IS TO FIELD LOCATE THE JOINT OR SAWCUT THE EXISTING SIDEWALK TO PROVIDE A PERPENDICULAR JOINT AT A FULL WIDTH SECTION OF THE EXISTING SIDEWALK.
- THE MAXIMUM ALLOWABLE LONGITUDINAL SLOPE OF THE SIDEWALK TRANSITIONS AND RAMPS SHALL BE 1 FOOT VERTICAL TO 12 FEET HORIZONTAL. THE MAXIMUM CROSS SLOPE OF THE SIDEWALK, TRANSITIONS AND RAMPS SHALL NOT EXCEED 2%.
- ALL CURB AND SIDEWALK SHALL REMAIN, UNLESS OTHERWISE NOTED. CURB AND/OR SIDEWALK THAT IS DAMAGED BY CONTRACTOR AND IS NOT "NOTED TO BE REPLACED" SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- NEW ASPHALT/FRICTION COURSE SHALL BE ALLOWED TO CURE FOR AT LEAST 30 DAYS BEFORE APPLICATION OF THERMOPLASTIC PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS. DURING THE CURE PERIOD, TEMPORARY PAINTED LANE LINES AND PAVEMENT MESSAGES SHALL BE APPLIED TO MAINTAIN PROPER TRAFFIC CONTROL. APPLICATION OF THERMOPLASTIC TO CONFORM TO CITY OF LAKE WORTH STANDARDS.
- ALL FINAL PAVEMENT MARKING SHALL BE THERMOPLASTIC.
- CONTRACTOR SHALL INSTALL STOP BARS AT EACH ROAD INTERSECTION DISTURBED BY CONSTRUCTION. CONTRACTOR SHALL REPLACE EXISTING PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN APPENDIX B - FEC RAILWAY ADDITION TO BLANKET AGREEMENT FOR CONSTRUCTION WITHIN THE FEC RAILROAD RIGHT-OF-WAY.
- SOURCE AND DATE OF AERIAL PHOTOGRAPHY: PBC GIS DATED 2015.

HEDGE

PALM SPECIES

UNKNOWN

BUSH

↑ INDICATES TRUNK DIAMETER

NOTE: VERIFICATION OF TREE SPECIES SHOULD BE CONDUCTED BY A PROFESSIONAL ENGAGED IN THE FIELD OF NATURAL SCIENCE.

PLOT DATE: Jul 01, 2016 - 1:30pm XREFS: IMAGES: I:\REF: DATA\PC02015\A\mes-E.dwg
 BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
 ↑ ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

NOTES AND LEGENDS

SEAL SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081		FLORIDA E.B. NO. 48 ENGINEERS • SURVEYORS • PLANNERS 5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, Fax 478-7248	FLORIDA L.B. NO. 48 FIELD: SEE NOTES DRAWN: YM DESIGN: SMH APPR: JRL SCALE: AS SHOWN	11TH AVENUE NORTH SEWER IMPROVEMENTS FROM NORTH "A" STREET TO NORTH FEDERAL HIGHWAY CITY OF LAKE WORTH PALM BEACH COUNTY, FLORIDA	DATE: JUNE 2016 P.A. NO. B5017.00 DWG. NO. 44-43-21-200 SHEET: C0-2
NO.	DATE	BY	REVISION		



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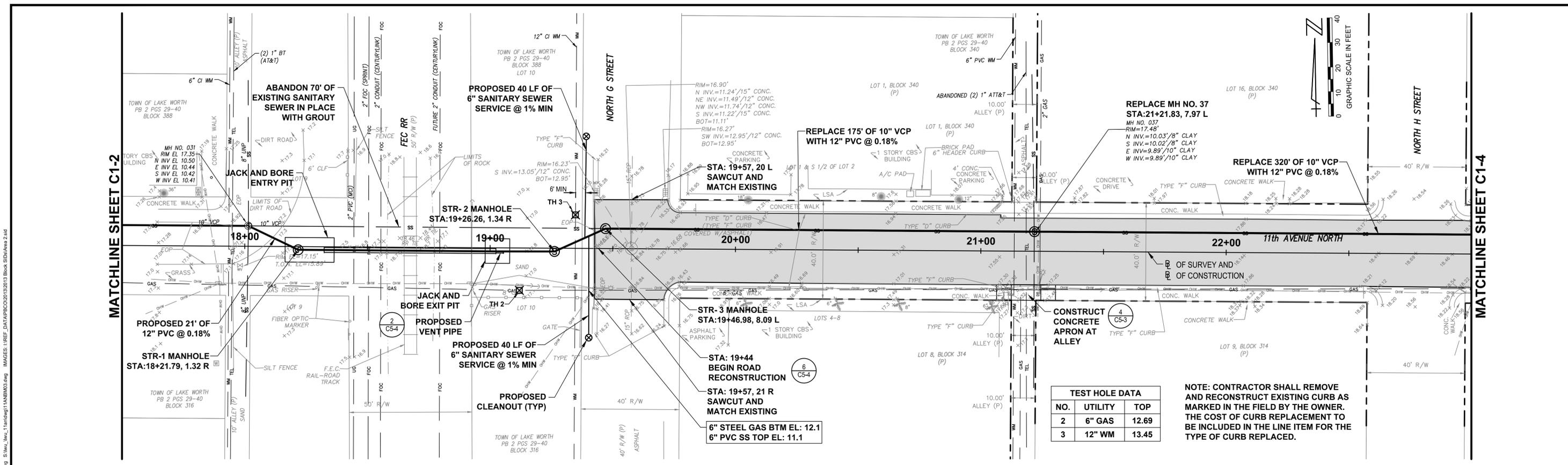
SEAL	FLORIDA E.B. NO. 48
SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081	FLORIDA L.B. NO. 48
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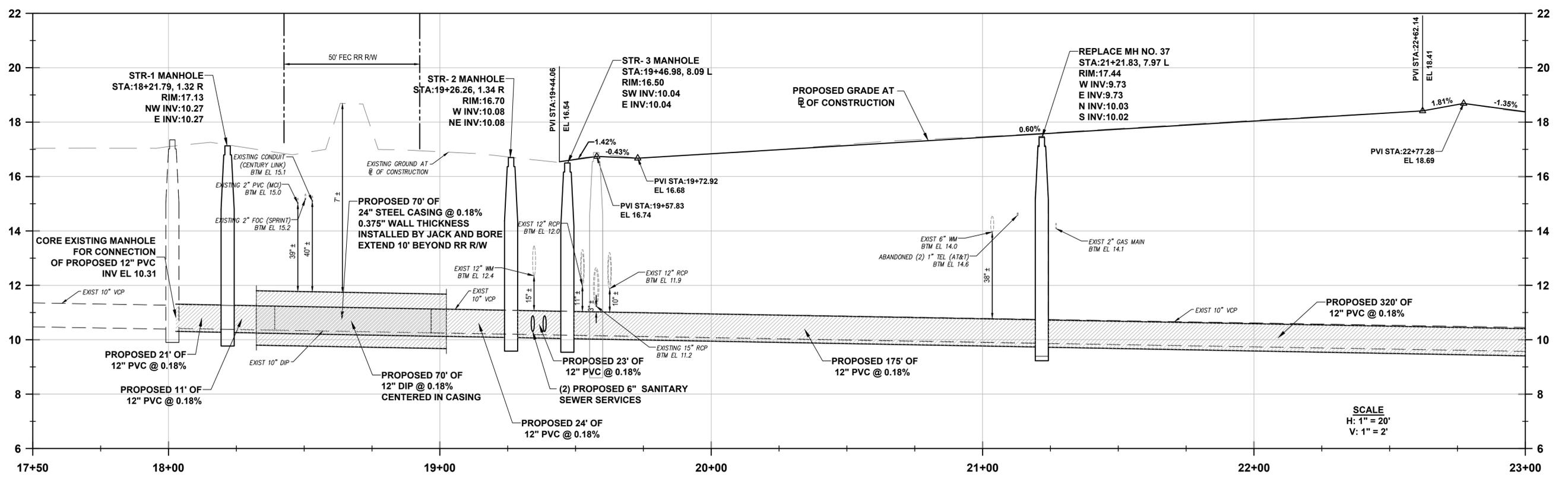
KEY SHEET AND HORIZONTAL CONTROL
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SHEET:	C0-3



TEST HOLE DATA		
NO.	UTILITY	TOP
2	6" GAS	12.69
3	12" WM	13.45

NOTE: CONTRACTOR SHALL REMOVE AND RECONSTRUCT EXISTING CURB AS MARKED IN THE FIELD BY THE OWNER. THE COST OF CURB REPLACEMENT TO BE INCLUDED IN THE LINE ITEM FOR THE TYPE OF CURB REPLACED.



PLAN AND PROFILE - NORTH G STREET TO NORTH H STREET

BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

NO.	DATE	BY	REVISION

SEAL	FLORIDA E.B. NO. 48
SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081	
DATE	

FLORIDA E.B. NO. 48	FLORIDA L.B. NO. 48
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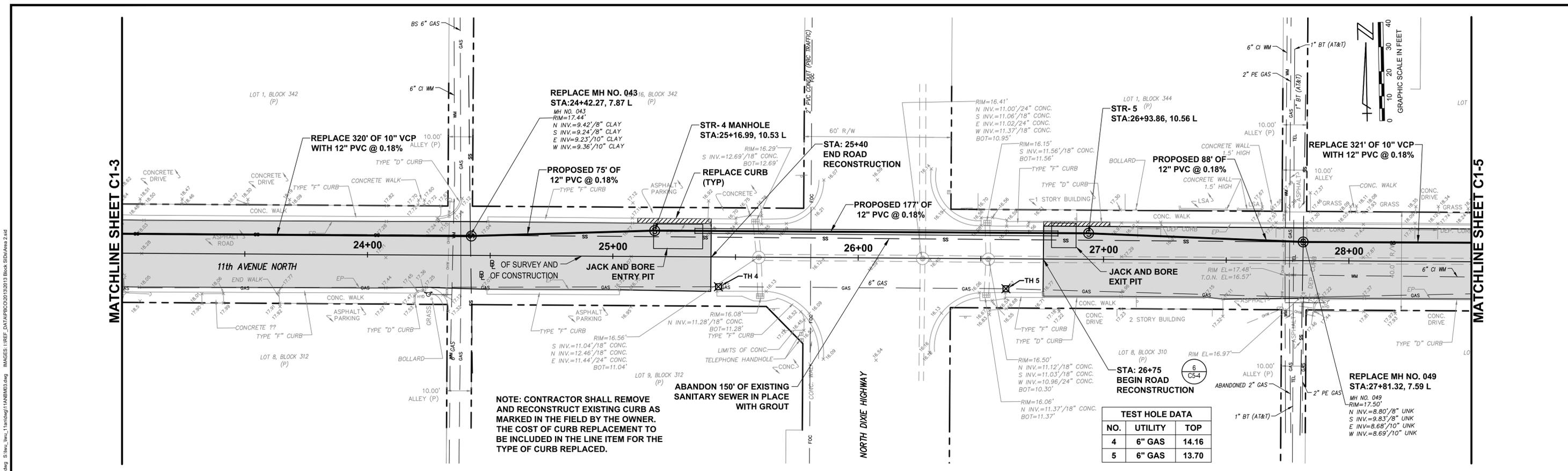
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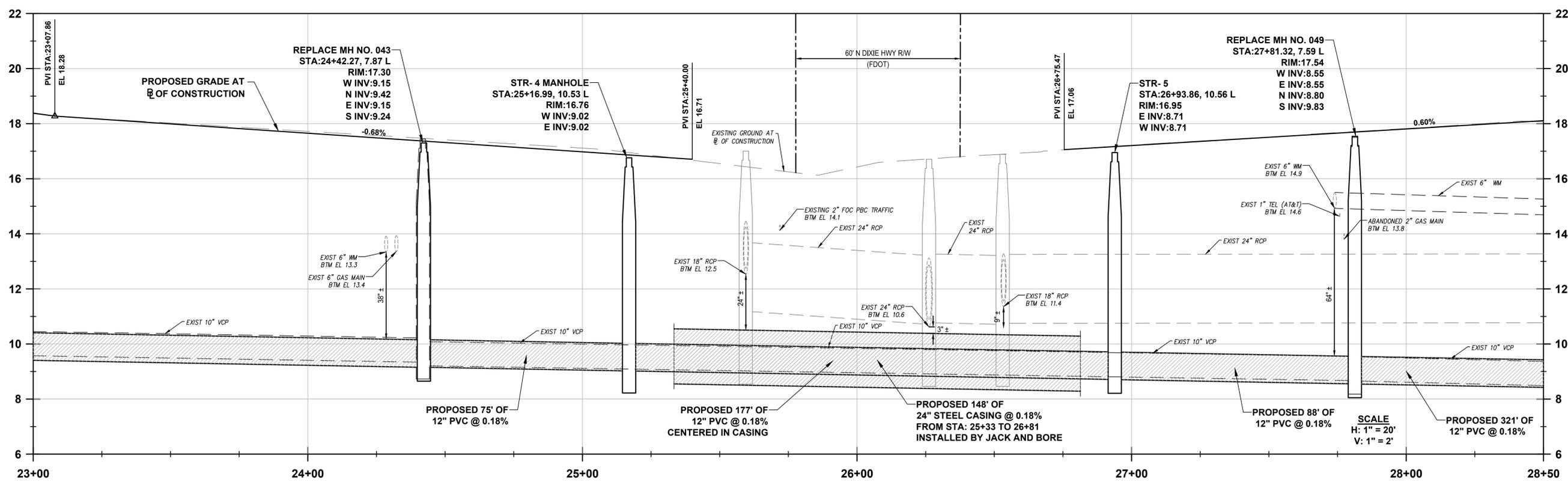
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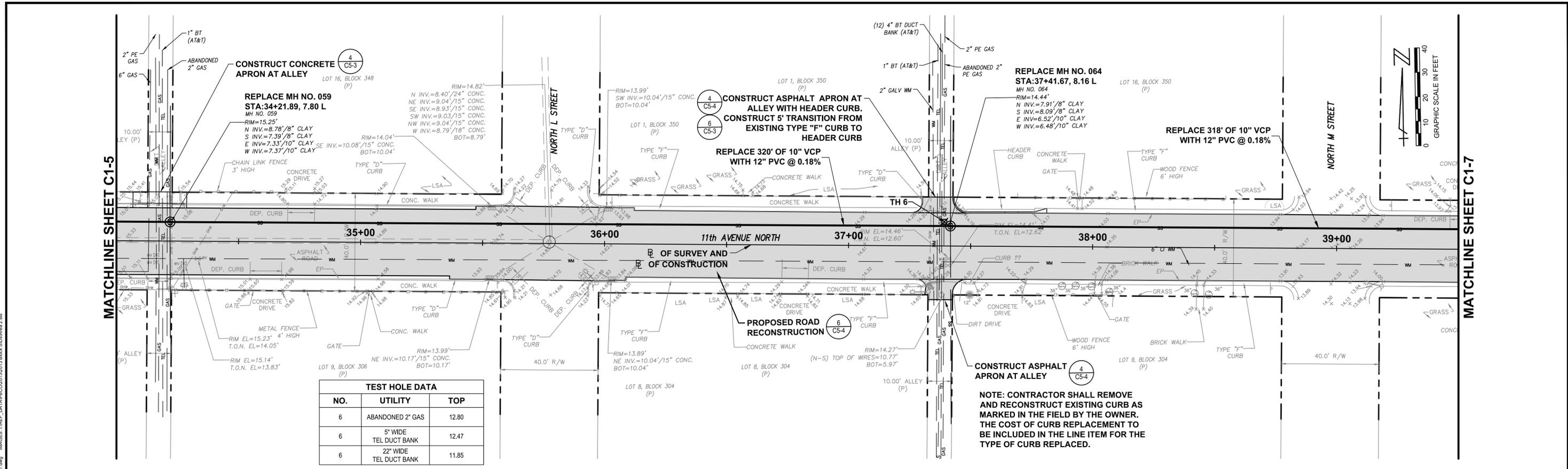
NOTE: CONTRACTOR SHALL REMOVE AND RECONSTRUCT EXISTING CURB AS MARKED IN THE FIELD BY THE OWNER. THE COST OF CURB REPLACEMENT TO BE INCLUDED IN THE LINE ITEM FOR THE TYPE OF CURB REPLACED.

TEST HOLE DATA		
NO.	UTILITY	TOP
4	6" GAS	14.16
5	6" GAS	13.70



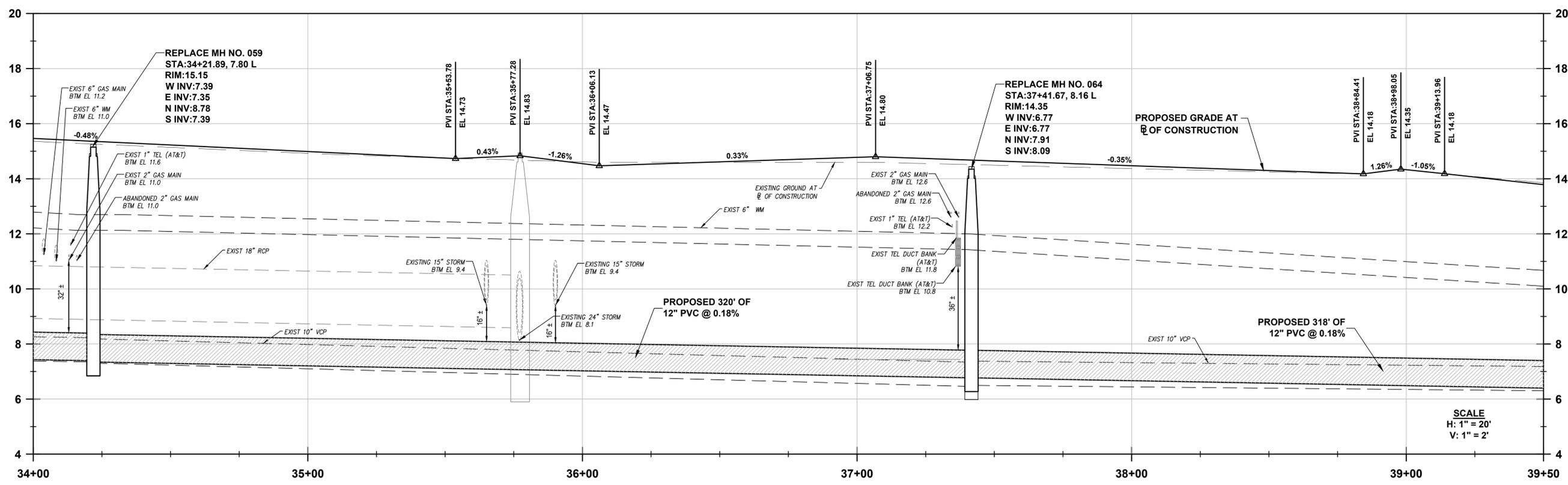
PLAN AND PROFILE - NORTH DIXIE HIGHWAY

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TEST HOLE DATA

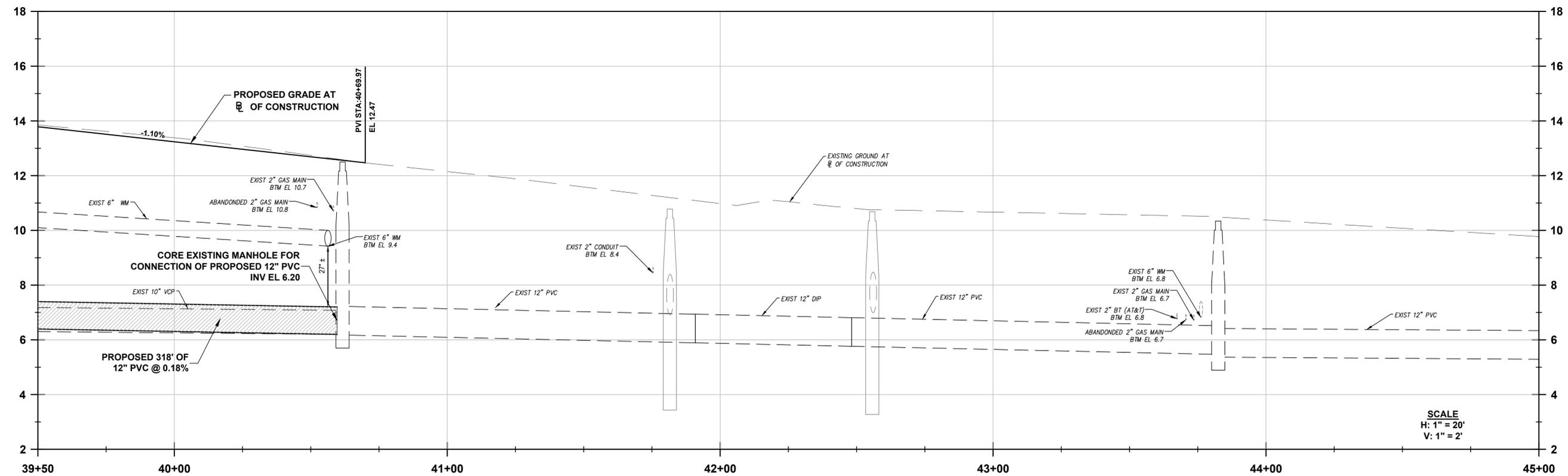
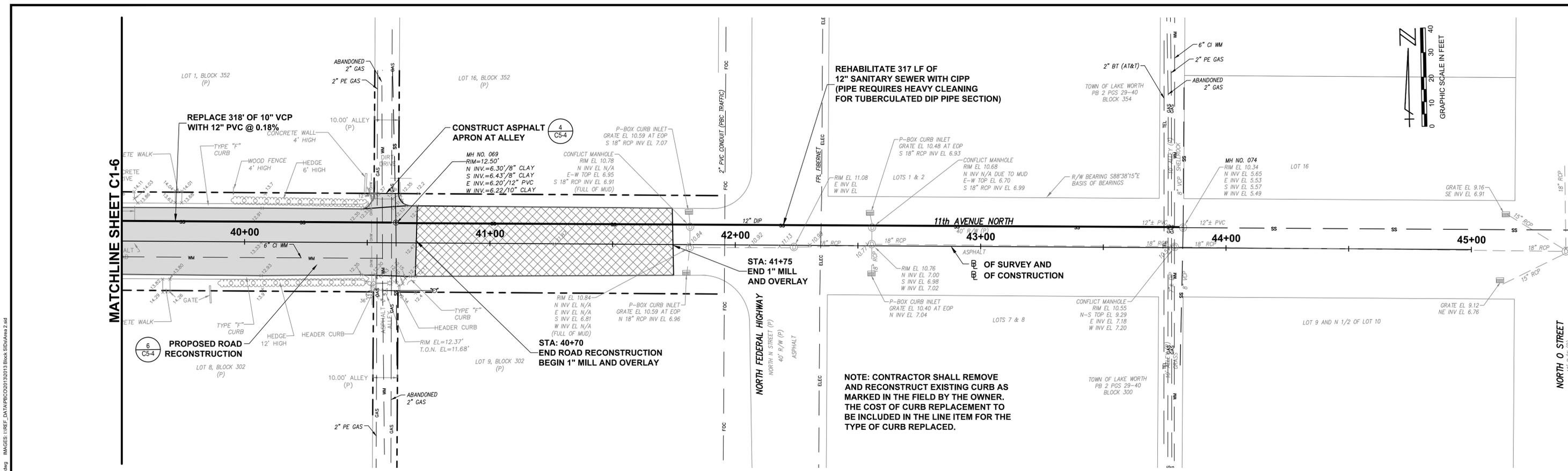
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6	22" WIDE TEL DUCT BANK	11.85



PLAN AND PROFILE - NORTH L STREET TO NORTH M STREET

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NO.	DATE	BY	REVISION

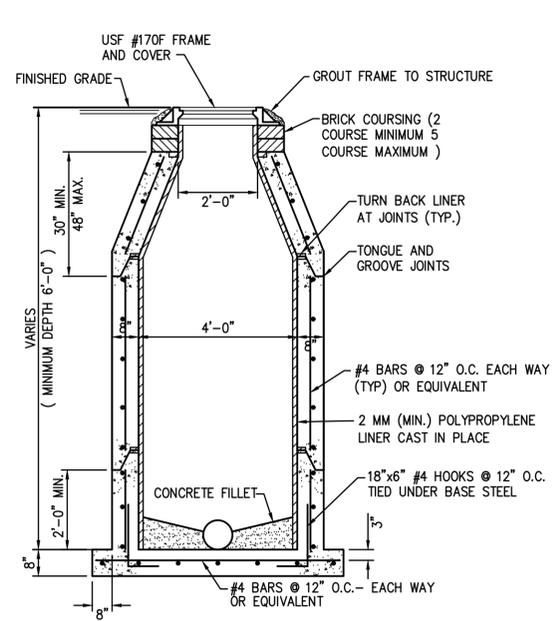


PLAN AND PROFILE - NORTH FEDERAL HIGHWAY		DATE: JUNE 2016
11TH AVENUE NORTH SEWER IMPROVEMENTS		P.A. NO. B5017.00
FROM NORTH "A" STREET TO NORTH FEDERAL HIGHWAY		DWG. NO. 44-43-21-200
CITY OF LAKE WORTH		SHEET: C1-7
PALM BEACH COUNTY, FLORIDA		

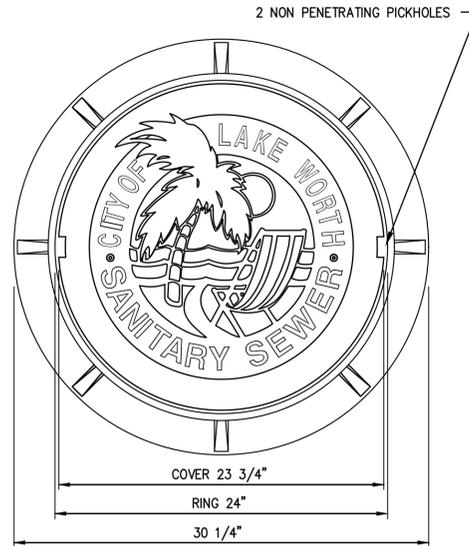
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SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081	MOCK • ROOS ENGINEERS • SURVEYORS • PLANNERS	DRAWN: YM	
DATE	5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, Fax 478-7248	DESIGN: SMH	
		APPR: JRL	
		SCALE: AS SHOWN	

NO.	DATE	BY	REVISION

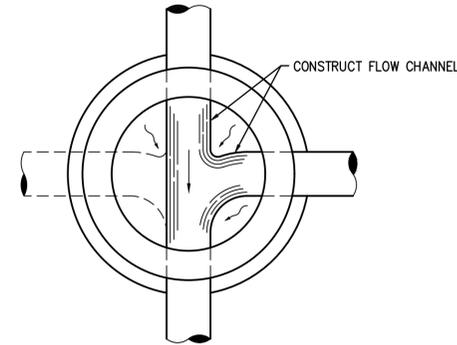
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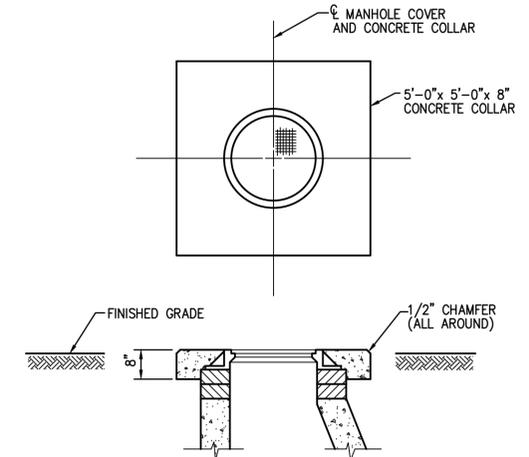
1-1 STANDARD MANHOLE
C5-1



1-7 USF 170 RING AND EU COVER
C5-1



1-9 MANHOLE BOTTOM FOR TWO
C5-1 OR MORE INFLUENT LINES



1-11 CONCRETE COLLAR (REQUIRED WHEN
C5-1 MANHOLE IS OUT OF PAVEMENT)

1. REINFORCING STEEL ON ALL CONCRETE STRUCTURES SHALL HAVE A MINIMUM COVER OF 3 INCHES.
2. BRICK COURSING ON MANHOLES SHALL BE PLASTERED WITH 1/2 INCH CEMENT MORTAR ON THE INSIDE AND OUTSIDE FACES.
- 3.
4. THE DISTANCES AND CONTROLS SHOWN ON THE DRAWINGS REFER TO THE CENTERLINE OF THE MANHOLES.
5. COAT EXTERIOR AND INTERIOR SURFACES OF MANHOLES WITH KOPPERS 300-M OR EQUAL APPROVED BY THE ENGINEER. PROVIDE A MINIMUM DRY FILM THICKNESS OF 16 MILS. APPLY IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INTERIOR COATING SHALL BE FIELD APPLIED AFTER FINAL LAMPING AND REVIEW BY THE ENGINEER.
6. STEPS ARE REQUIRED IN MANHOLES GREATER THAN 3 FEET IN DEPTH. STEPS SHALL BE SPACED 16 INCHES ON CENTER AND SHALL BE POLYPROPYLENE PLASTIC COATED NO.3 AS MANUFACTURED BY MA INDUSTRIES, INC. OR EQUAL APPROVED BY THE ENGINEER.
7. PVC FORCE MAIN PIPE SHALL BE WRAPPED WITH WIRE FOR LOCATING PURPOSES. A 14 GAUGE, THIN INSULATED, SOLID COPPER WIRE SHALL BE LAID IN THE PIPE TRENCH CONTINUOUS FROM VALVE BOX TO VALVE BOX. WIRE SHALL BE WRAPPED TWO TIMES AROUND EACH JOINT OF PIPE AND EXTENDED INSIDE EACH VALVE BOX TO ENABLE LOCATION DEVICES TO BE ATTACHED WITHOUT DIGGING UP THE VALVE BOX. WIRE CONNECTIONS SHALL BE MADE WITH COMMERCIAL CONNECTORS AND SEALED AGAINST MOISTURE WITH SCOTCH E-2 SEAL NO.2200 ELECTRICAL INSULATING PAD WITH VINYL BACKING.
8. DROP CONNECTIONS ON MANHOLES ARE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED 2 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
9. CAST IRON MANHOLE COVERS SHALL HAVE THE WORD 'SANITARY' CAST IN THEM IN RAISED LETTERS.

1-12 GENERAL NOTES
C5-1

PLOT DATE: Jul 01, 2016 - 1:33pm XREFS: IMAGES:

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ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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SEAL
SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081
DATE

FLORIDA E.B. NO. 48

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5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, Fax 478-7248

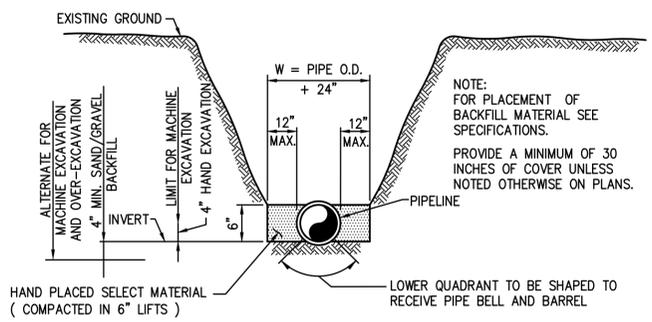
FLORIDA L.B. NO. 48

FIELD: SEE NOTES
DRAWN: YM
DESIGN: SMH
APPR: JRL
SCALE: NTS

LAKE WORTH STANDARD SEWER DETAILS

11TH AVENUE NORTH SEWER IMPROVEMENTS
FROM NORTH "A" STREET TO
NORTH FEDERAL HIGHWAY
CITY OF LAKE WORTH
PALM BEACH COUNTY, FLORIDA

DATE:	JUNE 2016
P.A. NO.	B5017.00
DWG. NO.	44-43-21-200
SHEET:	C5-1



2-1 TRENCHING
C5-2

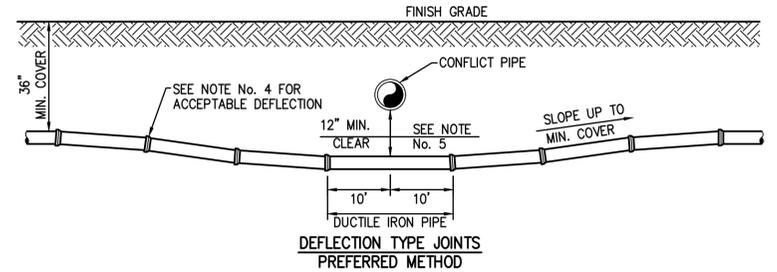
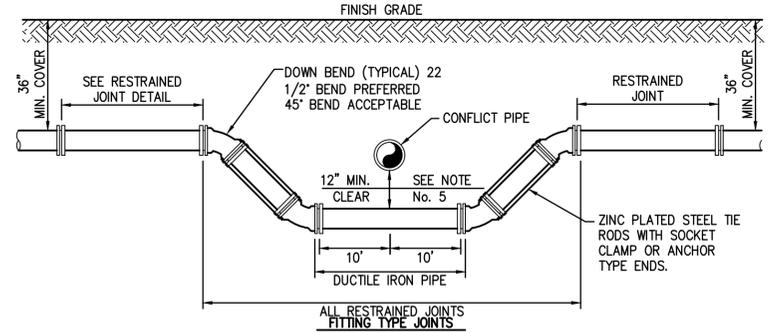
HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATERMANS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

- NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED SEWER, STORMWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
- NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMANS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATERMAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
- NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM AS DEFINED IN SECTION 381.0065(2), F.S. AND RULE 64E-6.002, F.A.C.

VERTICAL SEPARATION BETWEEN UNDERGROUND WATERMANS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCEMANS, AND RECLAIMED WATER PIPELINES.

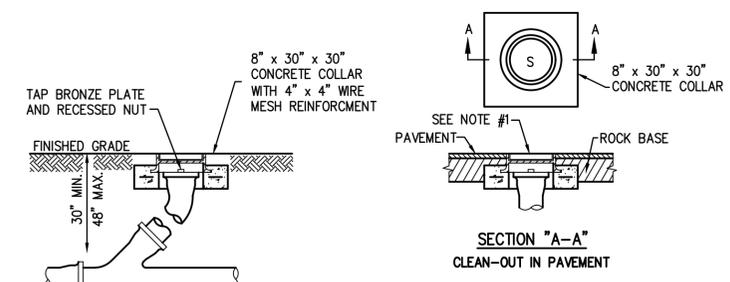
- NEW OR RELOCATED UNDERGROUND WATERMANS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST SIX INCHES, AND PREFERABLY TWELVE INCHES ABOVE, OR AT LEAST TWELVE INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.
- NEW OR RELOCATED UNDERGROUND WATERMANS CROSSING ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST TWELVE INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATERMAIN ABOVE THE OTHER PIPELINE.
- AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPH 1 AND 2 ABOVE, ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATERMAIN JOINTS SHALL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATERMAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWER, STORM SEWERS, STORMWATER FORCEMANS, 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 FORCEMANS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER III 62-610, F.A.C.

2-5 WATER AND SEWER SEPARATION CRITERIA
C5-2



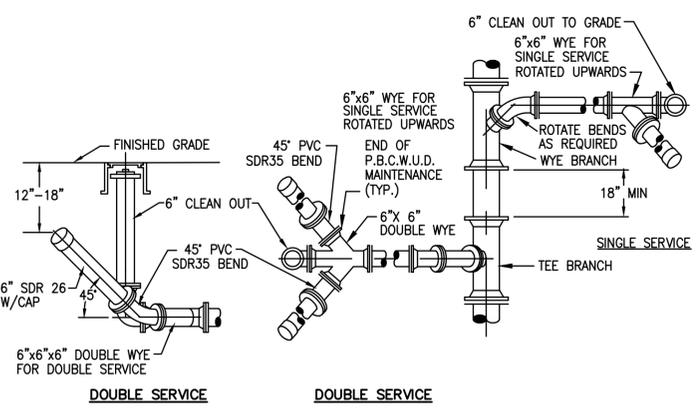
- THERE SHALL BE, IN ALL CASES, A MINIMUM OF 12" SEPARATION BETWEEN WATER MAINS AND FORCE MAINS.
- WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
- FITTINGS SHALL BE RESTRAINED WITH MEGALUGS AND TIE RODS BETWEEN OFFSET FITTINGS. THRUST BLOCKS SHALL ONLY BE USED WITH THE APPROVAL OF THE ENGINEER.
- THE DEFLECTION TYPE CROSSING IS PREFERRED. SEE SPECIFICATIONS AND MANUFACTURER'S SUBMITTAL FOR MAXIMUM DEFLECTION ALLOWED.
- A MINIMUM OF 12" VERTICAL SEPARATION BETWEEN WATER MAINS AND STORM SEWERS SHALL BE MAINTAINED. WHERE THIS IS NOT POSSIBLE WATER MAIN SHALL BE D.I.P. WITH NO LESS THAN 6" SEPARATION.

2-6 PRESSURE PIPE CONFLICT
C5-2



- NOTES:
- U.S. FOUNDRY NO. 7621 REVERSIBLE HANDHOLE RING AND COVER OR APPROVED EQUAL SHALL BE USED, COVER TO BE CAST WITH "S" IN THE CENTER.
 - CLEAN OUT REQUIRED ON ALL SERVICES AT PROPERTY LINE.
 - STANDARD WYE SHALL BE USED AT CLEAN OUT.
 - ALL PIPE AND CLENOUT SHALL BE 6" MIN.

2-9 CLEANOUT
C5-2



2-10 TYPICAL WASTEWATER SERVICE CONNECTION
C5-2

PLOT DATE: Jul 01, 2016 - 1:33pm XREFS: IMAGES:

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ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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NO.	DATE	BY	REVISION

SEAL	FLORIDA E.B. NO. 48
SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081	
DATE	

FLORIDA L.B. NO. 48

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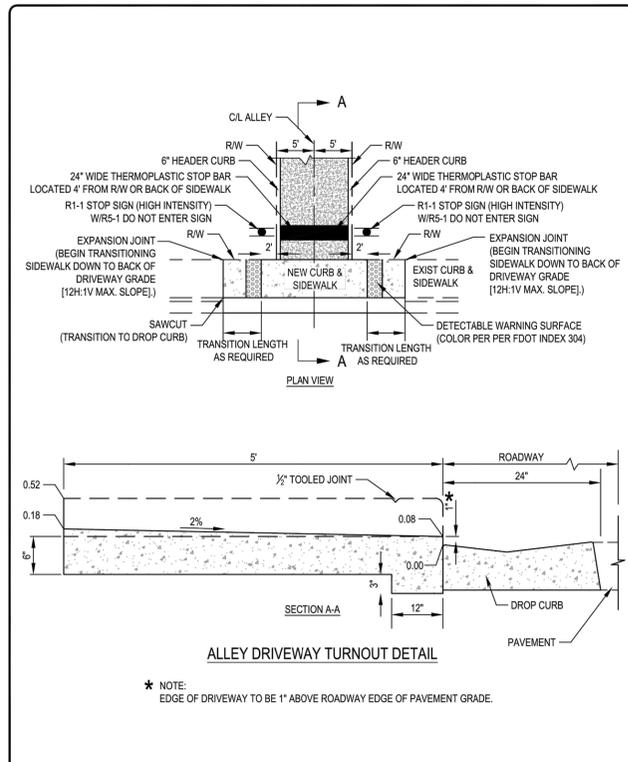
5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, Fax 478-7248

FIELD: SEE NOTES
DRAWN: YM
DESIGN: SMH
APPR: JRL
SCALE: NTS

LAKE WORTH STANDARD SEWER DETAILS

11TH AVENUE NORTH SEWER IMPROVEMENTS
FROM NORTH "A" STREET TO
NORTH FEDERAL HIGHWAY
CITY OF LAKE WORTH
PALM BEACH COUNTY, FLORIDA

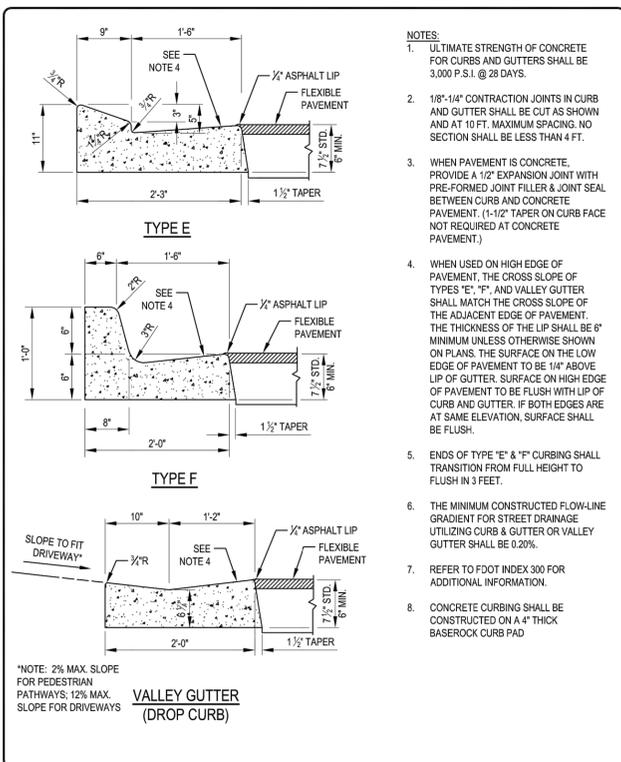
DATE:	JUNE 2016
P.A. NO.	B5017.00
DWG. NO.	44-43-21-200
SHEET:	C5-2



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

ALLEY AND DRIVEWAY TURNOUTS (MODIFIED)

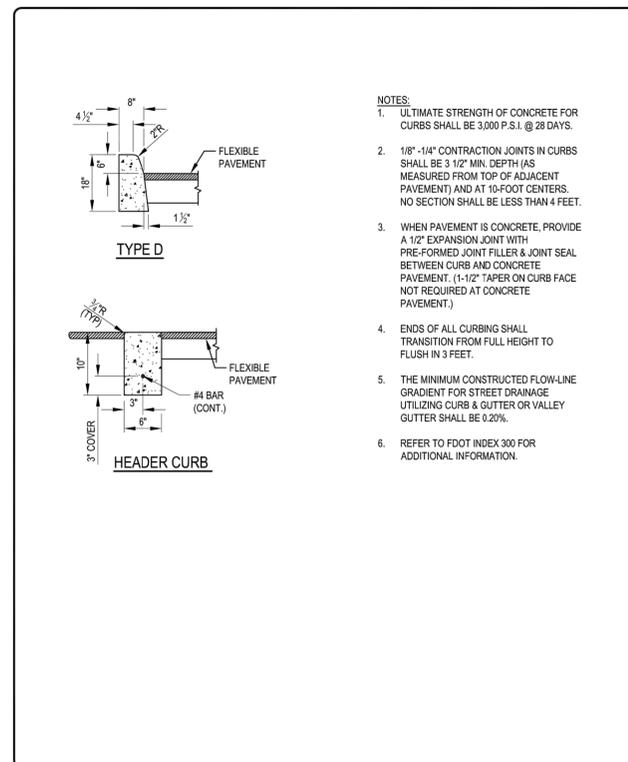
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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

CONCRETE CURB AND GUTTER

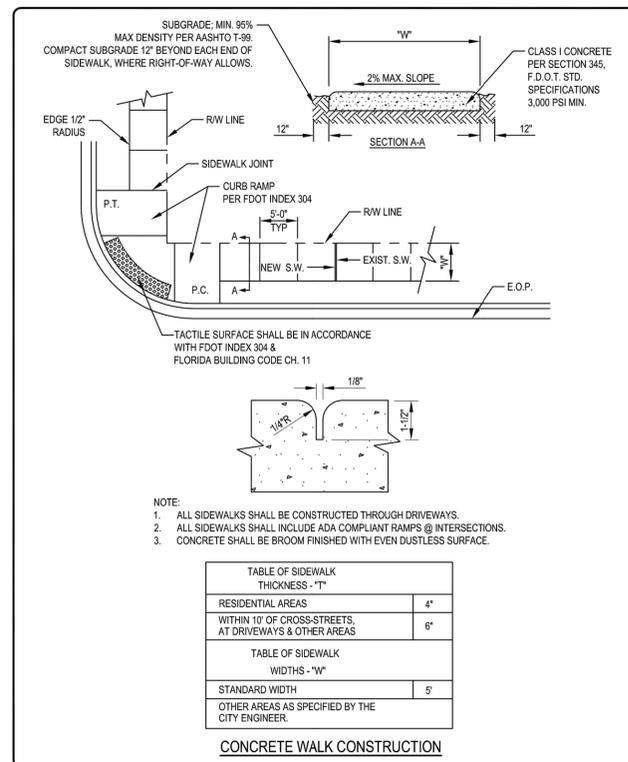
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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

CONCRETE CURB

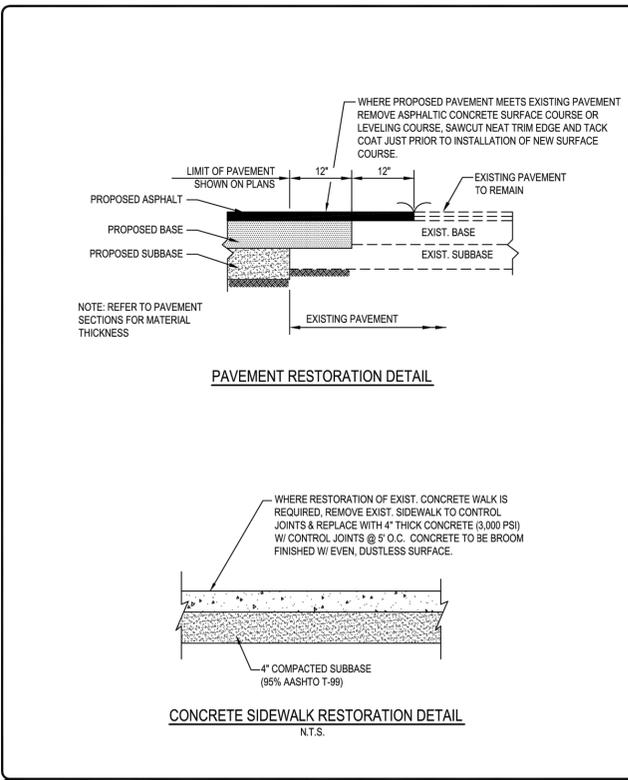
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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

CONCRETE WALK

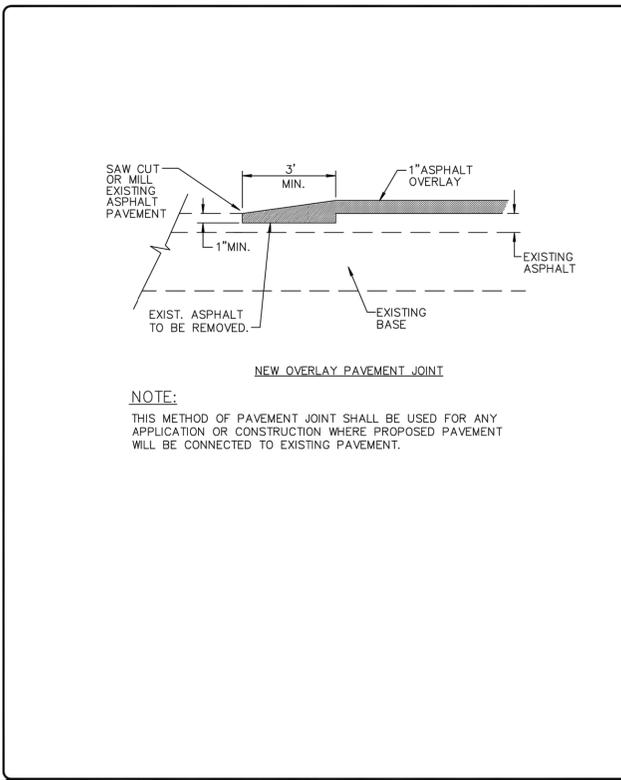
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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

PAVEMENT AND SIDEWALK RESTORATION

19



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

PAVEMENT JOINT

20

PAVEMENT MARKING SPECIFICATIONS

All Pavement markings to be installed per these typicals, plans and specifications, and as directed by the City Engineer and shall conform to the requirements of F.D.O.T. and the manual on uniform traffic control devices, (MUTCD).

PERMANENT MARKINGS

Installation: All markings shall be installed by the extruded method. Markings shall be free of weaves, bows, drips, drags, and other degrading items. Chalk shall be used for all layout markings.

Materials: All materials shall be alkyl or hydrocarbon thermoplastic meeting all FDOT specifications.

Thickness: All markings shall be installed to yield 90 mils of material measured above the pavement surface.

Spheres: Reflective glass spheres are to be applied to all stripes and markings per FDOT specifications.

Alternate Material: STAYMARK marking tape, or equivalent may be used, as approved or directed by the City Engineer.

Layout: Layout shall be made using marking chalk. It is recommended that marking layout be inspected by the City Engineer prior to the placement of final markings.

TEMPORARY MARKINGS

Temporary markings may be used only as specified in this section, or as approved or directed by the City Engineer.

Final Pavement Surface: Only foil backed marking tape is allowed. All tape shall be totally removed concurrent with permanent marking placement.

Other Pavement Surfaces: Intermediate pavement surfaces may be marked with FDOT approved materials, designs, and specifications.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

PAVEMENT MARKING SPECIFICATIONS

13

PLOT DATE: Jul 01, 2016 - 1:33pm
 XREFS: BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
 DIMS: ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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DATE	

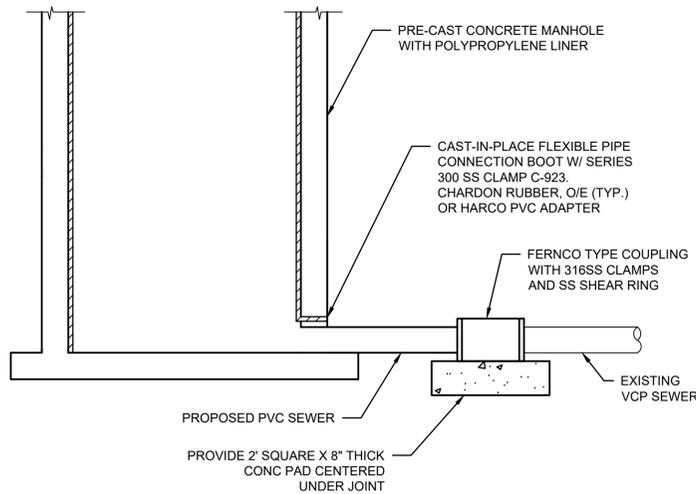
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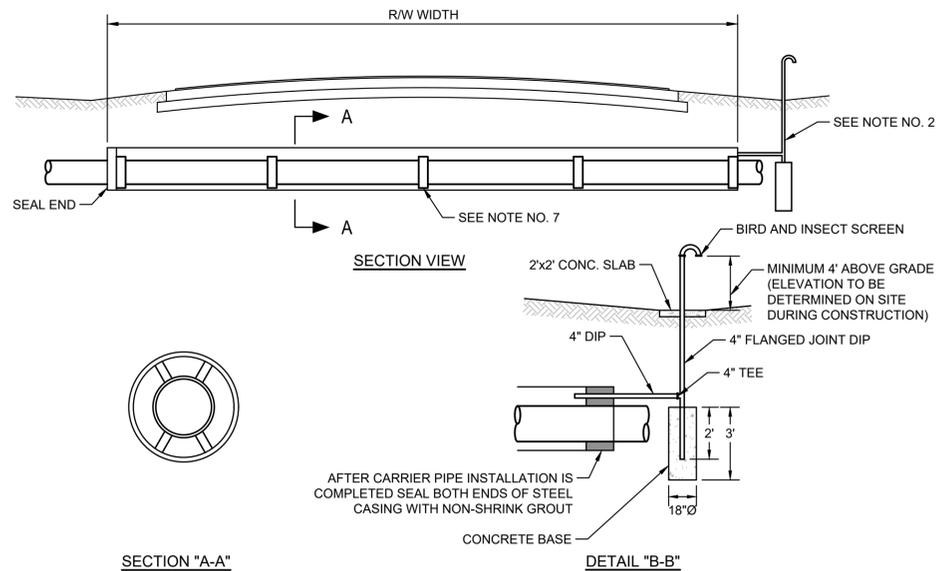
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DRAWN: YM	P.A. NO. B5017.00
DESIGN: SMH	DWG. NO. 44-43-21-200
APPR: JRL	SHEET: C5-3
SCALE: NTS	

LAKE WORTH STANDARD PUBLIC SERVICES DETAILS

11TH AVENUE NORTH SEWER IMPROVEMENTS
FROM NORTH "A" STREET TO NORTH FEDERAL HIGHWAY
CITY OF LAKE WORTH
PALM BEACH COUNTY, FLORIDA



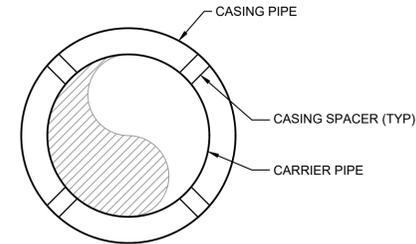
1 EXISTING SEWER CONNECTION TO NEW MANHOLE
C5-4



SECTION "A-A"

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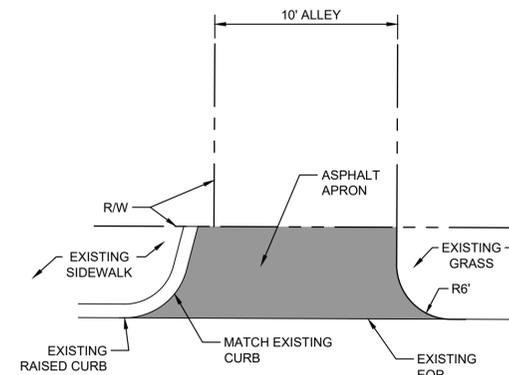
- CASING TO CONSIST OF ASTM STANDARD WEIGHT WELDED STEEL PIPE WITH MINIMUM WALL THICKNESS OF 0.375".
- CASING PIPE VENT SHALL BE INSTALLED AT RAILROAD CROSSINGS.
- THE CONTRACTOR IS TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR IS TO MAINTAIN TRAFFIC FLOW AT ALL TIMES AND PROVIDE THE NECESSARY CONSTRUCTION NOTIFICATION SIGNAL AND BARRIERS TO COMPLY WITH ALL APPLICABLE REGULATING ENTITY REQUIREMENTS. SUBMIT M.O.T. FOR APPROVAL.
- THE CONTRACTOR IS TO COORDINATE ALL WORK WITH THE OWNER, ENGINEER OF RECORD AND ALL APPLICABLE REGULATING ENTITIES.
- THE CONTRACTOR SHALL INSTALL CASCADE CASING SPACERS OR APPROVED EQUIVALENT. THE SPACING AND NUMBER REQUIRED SHALL BE PER THE MANUFACTURERS RECOMMENDATION. FASTENERS SHALL BE 316 STAINLESS STEEL.
- CASINGS SHALL EXTEND FROM R/W TO R/W OR AS OTHERWISE SHOWN ON THE DRAWINGS.



NOTES

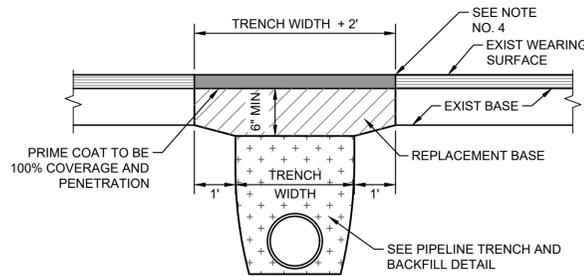
- CASING SPACER HEIGHT SHALL BE SUFFICIENT TO MAINTAIN 1" VERTICAL CLEARANCE BETWEEN THE CARRIER PIPE BELL AND THE STEEL CASING PIPE.
- THE MAXIMUM HORIZONTAL DISTANCE BETWEEN CASING SPACERS SHALL BE 8-FOOT.
- INSTALL CASING SPACER SYSTEM PER MANUFACTURER'S RECOMMENDATIONS.
- ALTERNATE METHODS OF PIPE SUPPORT WITHIN THE CASING SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

3 CASING SPACER
C5-4



NOTE: ASPHALT APRON SHALL BE CONSTRUCTED PER TYPICAL ROAD SECTION

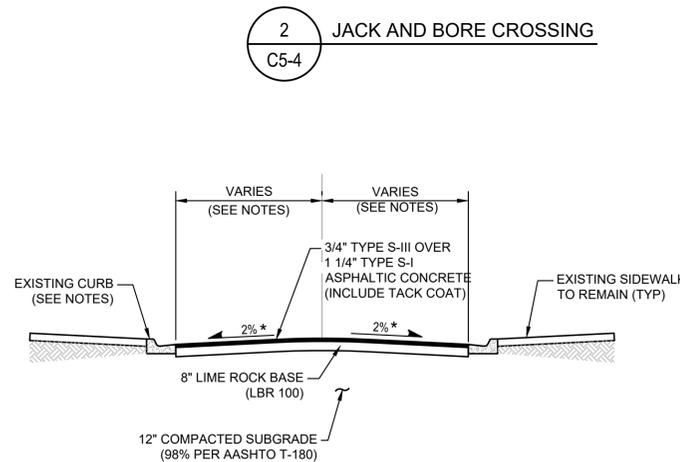
4 ASPHALT APRON AT ALLEY
C5-4



NOTES

- CONTRACTOR SHALL CONSTRUCT TEMPORARY PATCH AFTER EACH SECTION OF SEWER IS INSTALLED TO OPEN TRAFFIC LANE FOR VEHICULAR TRAFFIC AS SOON AS POSSIBLE.
- TRENCH SHALL BE BACKFILLED WITH CLEAN, GRANULAR MATERIAL, IN SIX (6) INCH LIFTS, (MAX), COMPACTED TO 100% MAXIMUM DENSITY PER AASHTO T-99 METHOD C SPECIFICATIONS.
- BASE MATERIAL SHALL BE LIMEROCK COMPACTED TO A MINIMUM OF 98% DENSITY PER AASHTO T-180 METHOD D SPECIFICATIONS.
- ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED IN STRAIGHT LINE PARALLEL TO THE PIPE.
- WEARING SURFACE MATERIAL FOR ROADWAY SHALL BE TYPE S-III ASPHALTIC CONCRETE (MINIMUM 3/4" THICK). BITUMINOUS PRIME COAT SHALL BE 100% COVERAGE AND PENETRATION. SEE TECHNICAL SPECIFICATIONS.

5 TEMPORARY PAVEMENT REPLACEMENT
C5-4 N.T.S.

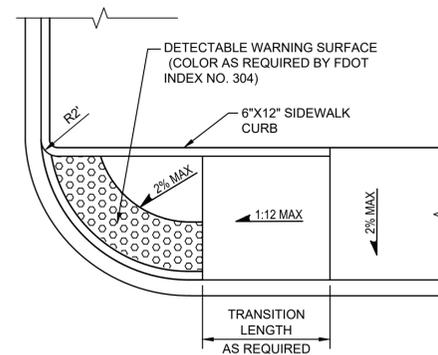


NOTES:

- THE EXISTING CURB ALONG THE ROAD IS TYPE "F" CURB, TYPE "D" CURB, AND MONOLITHIC SIDEWALK AND CURB. THE CONTRACTOR SHALL VERIFY THE TYPE OF CURB BEFORE BEGINNING PAVEMENT RECONSTRUCTION.
- THE EXISTING LANE WIDTH VARIES ALONG THE ROADWAY. PAVEMENT SHALL EXTEND TO THE EXISTING EDGE OF CURB.
- THE CONTRACTOR SHALL REMOVE EXISTING ASPHALT AND OTHER DEBRIS WITHIN THE EXISTING TYPE "F" CURB TO RE-ESTABLISH THE FLOW LINE. THE COST OF REMOVAL SHALL BE INCLUDED IN THE COST OF ROADWAY REPLACEMENT.

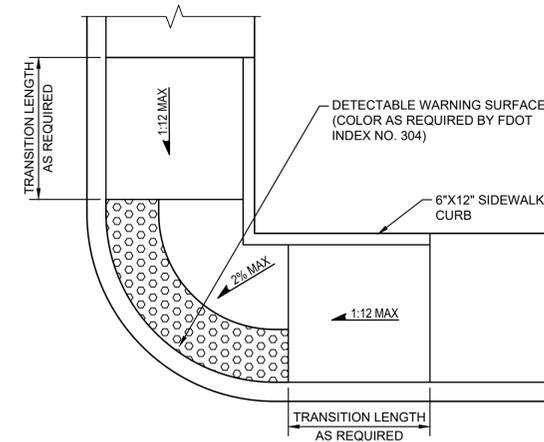
* CROSS SLOPE VARIES AT ROAD INTERSECTIONS AND FROM STA: 36+06 TO 38+84. TRANSITION PAVEMENT CROSS SLOPE TO MATCH EXISTING CURB GRADE.

6 TYPICAL ROADWAY SECTION
C5-4



RAMP DESIGNATION CR-G
OR AS APPROVED BY THE ENGINEER
SEE FDOT INDEX 304

7 HANDICAP RAMP FDOT CR-G
C5-4



RAMP DESIGNATION CR-L
OR AS APPROVED BY THE ENGINEER
SEE FDOT INDEX 304

8 HANDICAP RAMP FDOT CR-L
C5-4

DETAILS

PLOT DATE: Jul 01, 2016 - 1:33pm XREFS: IMAGES: BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

CADD FILE: K:\Wu_Wu_11andwg\11andwg01_C5-1.dwg	NO.	DATE	BY	REVISION	SEAL	FLORIDA E.B. NO. 48	FLORIDA L.B. NO. 48	FIELD: SEE NOTES	11TH AVENUE NORTH SEWER IMPROVEMENTS FROM NORTH "A" STREET TO NORTH FEDERAL HIGHWAY CITY OF LAKE WORTH PALM BEACH COUNTY, FLORIDA	DATE: JUNE 2016
					SHAMPALE M. HOLLAND FLORIDA P.E. NO. 69081	MOCK • ROOS ENGINEERS • SURVEYORS • PLANNERS	5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, Fax 478-7248	DRAWN: YM DESIGN: SMH APPR: JRL SCALE: NTS		P.A. NO. B5017.00 DWG. NO. 44-43-21-200 SHEET: C5-4