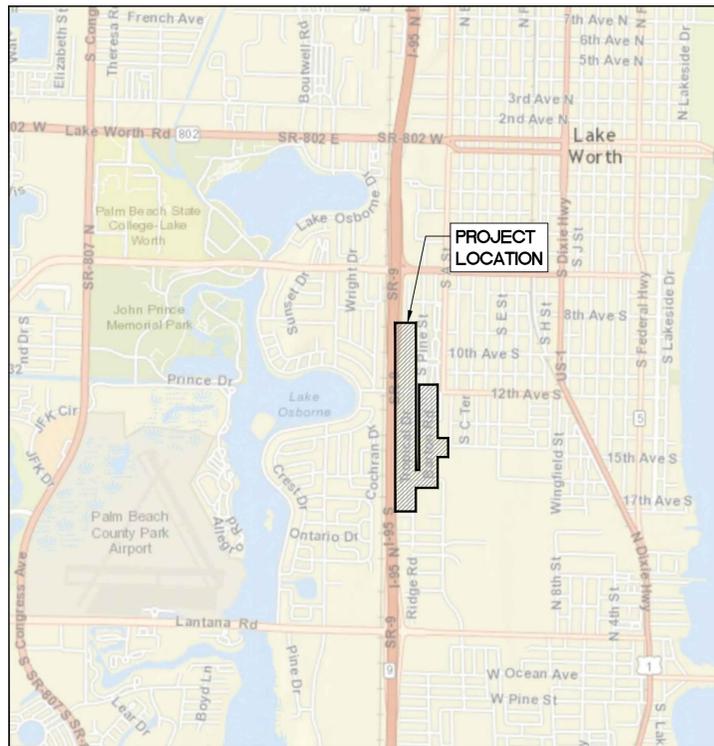


CITY OF LAKE WORTH TROPICAL DRIVE AND BARTON ROAD INFRASTRUCTURE IMPROVEMENTS PALM BEACH COUNTY, FLORIDA

BID # IFB 16-115
FINANCE PROJECT # MP 1601 AND LS 1601



LOCATION MAP
NTS



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

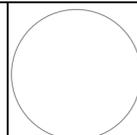
CITY MANAGER
MICHAEL BORNSTEIN

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DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision Description



CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

COVER SHEET AND LOCATION PLAN	
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C001

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT - GENERAL NOTES

- SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PROVISIONS OF THE FLORIDA TRENCH SAFETY ACT, THE FLORIDA UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, AND ALL APPLICABLE O.S.H.A. REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS WHEN WORKING IN THE VICINITY OF OVERHEAD ELECTRIC LINES.
- ACCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES.
- WARRANTY. ALL WORK, MATERIALS, OR EQUIPMENT SHALL BE WARRANTIED FOR A MINIMUM OF ONE YEAR, FROM THE DATE OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH, AGAINST DEFECTIVE MATERIALS AND/OR WORKMANSHIP. ALL WORK FOUND TO BE DEFECTIVE WILL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY OF LAKE WORTH.
- FIELD REVIEWS. THE CONTRACTOR SHALL PROVIDE NOTIFICATION, 48 HOURS (MIN.), PRIOR TO ANY REQUIRED FIELD REVIEWS OR INSPECTIONS AND SHALL SUPPLY ALL NECESSARY EQUIPMENT, LABOR, AND MATERIALS FOR INSPECTION AND/OR TEST. ALL WORK SHALL BE OPEN AND SUBJECT TO REVIEW AND/OR INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY OF LAKE WORTH AND THE ENGINEER OF RECORD.
- DENSITY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TESTING TO ENSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED FOR ALL SUBGRADE, BASE MATERIAL, PIPE BASE MATERIAL, BACKFILL, & ALL OTHER AREAS WHERE COMPACTION REQUIREMENTS ARE SPECIFIED. ALL TEST RESULTS SHALL BE SIGNED & SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER AND COPIES SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE CITY OF LAKE WORTH.
- PERMITS. THE CONTRACTOR SHALL NOT COMMENCE CONSTRUCTION PRIOR TO RECEIPT OF ALL APPLICABLE PERMITS AND APPROVALS INCLUDING AN APPROVED MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS OF THE PERMITS AND AGENCY APPROVALS.
- EROSION CONTROL. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDICES 102, 103 AND 106, THE FDEP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (IF APPLICABLE), AND THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). FILTER FABRIC, HAY BALES, OR ROCK BAGS SHALL BE INSTALLED IN EACH INLET THROUGHOUT THE CONSTRUCTION PERIOD. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT ALL UNSTABILIZED CONSTRUCTION ACCESS POINTS, PER FDOT INDEX NO. 106.
- STORM DRAINAGE. ALL STORM DRAINAGE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC PER FDOT STANDARD INDEX NO. 280. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL GRATES SHALL BE SECURED TO THE STRUCTURES WITH AN EYEBOLT AND CHAIN. ALL STORM DRAINAGE SHALL BE FREE OF SILT AND SEDIMENT AT THE TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.
- DEWATERING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ANY DEWATERING PERMITS AND/OR APPROVALS NECESSARY FOR CONSTRUCTION. NO WATER FROM DEWATERING MEASURES SHALL BE DISCHARGED OFF-SITE. ALL DISCHARGE SHALL BE CONTAINED IN ON-SITE SEDIMENT BASINS.
- SIDEWALKS. ALL SIDEWALKS SHALL BE CONSTRUCTED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CHAPTER 11 - FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 AND THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. ALL WALKWAYS CROSSING VEHICULAR AREAS SHALL HAVE A DETECTABLE WARNING SURFACE (TRUNCATED DOMES) IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 304 AND THE FLORIDA BUILDING CODE, CHAPTER 11 - ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. ALL SIDEWALKS SHALL BE BROOM FINISHED WITH AN EVEN, DUSTLESS SURFACE AND SHALL BE FREE OF CRACKS AT TIME OF FINAL ACCEPTANCE BY THE CITY OF LAKE WORTH.

GENERAL NOTES - ADDITIONAL

- THE ENGINEER OF RECORD WILL PROVIDE THE CONTRACTOR WITH THE S.F.W.M.D. AND HEALTH DEPARTMENT PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY ADDITIONAL PERMITS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT.
- NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A TEMPORARY CONSTRUCTION METER FROM THE CITY OF LAKE WORTH CUSTOMER SERVICE.
- SEWER AND WATER SERVICES SHALL BE MAINTAINED DURING ENTIRE CONSTRUCTION PERIOD OR TEMPORARY FACILITIES PROVIDED. DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN ACCORDANCE WITH THE CITY OF LAKE WORTH UTILITY MANUAL.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, MOVING, AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN TO PREVENT WATER SERVICE AND WASTE WATER SERVICE DISRUPTION FOR APPROVAL 14 (FOURTEEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED SHUT DOWN. THE CONTRACTOR SHALL SUBMIT THE CITY OF LAKE WORTH STANDARD SHUT DOWN FORM AND NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- ALL CONSTRUCTION WITHIN COUNTY R/W MUST CONFORM TO THE PALM BEACH COUNTY ENGINEERING AND PUBLIC WORKS DEPARTMENT STANDARDS, OR THESE PLANS AND SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL CITY, COUNTY, AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
- CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHT-OF-WAY EASEMENT. COPIES OF EASEMENT SHALL BE PROVIDED BY THE CITY OF LAKE WORTH PROJECT MANAGER.
- CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO PALM BEACH COUNTY AND CITY OF LAKE WORTH CONSTRUCTION MANAGERS FOR WORK TO BE DONE WITHIN THEIR R/W IN ACCORDANCE WITH FDOT STANDARDS AND M.U.T.C.D.
- THE CONTRACTOR SHALL PROVIDE NEW TRAFFIC MARKINGS IN KIND WHERE EXISTING TRAFFIC MARKING ARE DAMAGED OR REMOVED DURING CONSTRUCTION OUTSIDE OF THE WORK AREA. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- EXITING TRAFFIC SIGNS TO BE RESET UPON COMPLETION PER COUNTY, CITY, AND FDOT STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
- STATIONS SHOWN IN THE DRAWINGS ARE STATIONS BASED ON THE ESTABLISHED BASE LINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- NO TRENCHES OR HOLES NEAR WALKWAY, IN ROADS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS.

- CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLERS LINES, CONDUITS, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF THE CONSTRUCTION ACTIVITIES OUTSIDE OF THE PROJECT LIMITS OR THAT ARE NOT INCLUDED IN OTHER PAY ITEMS. THIS WORK SHALL BE CONSIDERED INCIDENTAL. ALL SIDEWALKS REPAIRS AND RESTORATIONS SHALL BE CONSTRUCTED PER THE FLORIDA ACCESSIBILITY CODE.
- THE CONTRACTOR SHALL PROVIDE THE CITY OF LAKE WORTH CONSTRUCTION MANAGER WITH THE LOCATION OF ANY UNMARKED UTILITIES FOUND DURING CONSTRUCTION. THESE ITEMS SHALL BE INCORPORATED INTO THE AS-BUILT DRAWINGS
- THE CONTRACTOR SHALL COORDINATE ANY VEGETATION OR TREE REMOVAL WITHIN THE R/W WITH THE CITY OF LAKE WORTH PROJECT MANAGER PRIOR TO CONSTRUCTION. CONSTRUCTION OF SWALES SHALL AVOID AND PROTECT EXISTING SIGNIFICANT VEGETATION (4" DIAMETER TREE OR GREATER THAN 6 FEET TALL). SMALLER PLANTING SHOULD BE REPLACED IN KIND.
- CONTRACTOR SHALL PROVIDE/IMPROVE SWALE AREAS OF THE PROJECT SITE. SWALE AREAS CONSIST OF THE EDGE OF ASPHALT PAVEMENT TO THE EDGE OF CONCRETE SIDEWALK ON BOTH SIDES OF THE ROAD.
- MINIMUM DEPTH OF COVER FOR PROPOSED WATER MAIN IS 36 INCHES.
- REMOVE AND REPLACE ALL POST, FENCES, LAWN ORNAMENTS, ETC. THAT MAY BE IMPACTED BY SWALE CONSTRUCTION AT NO ADDITIONAL COST.
- WHEN NECESSARY CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ABANDONED ASBESTOS CEMENT PIPE.
- NO EXCAVATED MATERIAL SHALL BE CAST ON THE STREETS OR ADJACENT SIDEWALKS. EXCAVATED MATERIAL SHALL BE PLACED IN A DUMP TRUCK AND HAULED AWAY.
- IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN LIGHT LINE WEIGHT. NEW CONSTRUCTION IS SHOWN IN HEAVY LINE.
- CONTRACTOR SHALL REMOVE AND REINSTALL PRIVATE MAIL BOXES AS REQUIRED AND SHALL NOT INTERFERE WITH MAIL DELIVERY.

LOCATION OF UTILITIES

- UNDERGROUND UTILITIES SHOWN IN THESE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION PROVIDED TO THE ENGINEER. CONTRACTOR SHALL CALL 811, 48 HOURS BEFORE DIGGING OR TRENCHING OPERATIONS BEGIN.
- THE CONTRACTOR SHALL ACCURATELY LOCATE AND UNCOVER ALL EXISTING UTILITIES BEFORE CONSTRUCTION.
- ANY DAMAGE RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE. NOTIFY CONSTRUCTION MANAGER IF CONFLICTS ARE PRESENT.
- FLORIDA POWER AND LIGHT, TELEPHONE, COMCAST, GAS, CABLE TV, ETC., ARE TAKEN FROM FIELD INSPECTIONS AND ARE SHOWN FOR CONVENIENCE ONLY.
- UTILITIES:
FPL - FIBERNET LLC
4200 W FLAGLER STREET
MIAMI, FLORIDA 33174
(800) 868-9554

COMCAST CABLE
2021 SOUTH MILITARY TRAIL
WEST PALM BEACH, FLORIDA 33345
(561) 478-5866

FLORIDA PUBLIC UTILITIES COMPANY
208 SAPODILLA AVENUE
WEST PALM BEACH, FLORIDA 33401
ATTENTION: JASON ZELINSKI, DIVISION ENGINEER
(561) 838-1787

CITY OF LAKE WORTH - ELECTRICAL DEPARTMENT
1900 2ND AVENUE NORTH
LAKE WORTH, FLORIDA, 33461
(561) 533-7384

AT&T DISTRIBUTION
2021 SOUTH MILITARY TRAIL
WEST PALM BEACH, FLORIDA, 33415
(561) 357-6615

- CONTRACTOR SHALL EMPLOY AN UNDERGROUND UTILITY LOCATOR SUCH AS "INFRAMAP" FOR THE LOCATION OF ALL UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO THE START OF CONSTRUCTION.
- SHOULD CONFLICTS RISE BETWEEN THE PROPOSED IMPROVEMENTS SHOWN AND THE LOCATION OF EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER FOR RESOLUTION PRIOR TO INSTALLATION.

SURVEY NOTES

- LOCATION OF EXISTING FACILITIES AS SHOWN ON DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR NEITHER THE ACCURACY OF THE FACILITIES SHOWN NOR FOR ANY FACILITY NOT SHOWN.
- SURVEY CONTROL AND PREPARATION OF THE BASE MAP DRAWINGS WERE DONE BY WHIDDEN SURVEYING & MAPPING INC., 9200 BELVEDERE ROAD, SUITE 114, ROYAL PALM BEACH, FLORIDA, 33411.
- NO TITLE OPINION OR ABSTRACT OF THE SUBJECT PROPERTY HAS BEEN PROVIDED. IT IS POSSIBLE THAT THERE ARE DEEDS, EASEMENTS, OR OTHER INSTRUMENTS (RECORDED OR UNRECORDED) WHICH MAY AFFECT THE SUBJECT PROPERTY. NO SEARCH OF THE PUBLIC RECORDS HAS BEEN MADE BY THE SURVEYOR.
- BENCHMARK DATE IS NATIONAL AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).
- ANY NAVD-88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF DAMAGED, THE CONTRACTOR SHOULD NOTIFY:

GEODETIC INFORMATION CENTER
ATTENTION: MARK MAINTENANCE SECTION

ATTENTION: NCG-162
6001 EXECUTIVE BOULEVARD
ROCKVILLE, MARYLAND 20852
TELEPHONE NO: (301) 443-8319

- EXISTING SECTION CORNERS, QUARTER SECTION CORNER, AND COUNTY SURVEY CONTROL MONUMENTS LOCATED WITHIN THE PROPOSED CONSTRUCTION AREAS TO BE REFERENCED PRIOR TO CONSTRUCTION AND RESET IF DISTURBED AFTER CONSTRUCTION BY A PROFESSIONAL LAND SURVEYOR AND MAPPER.

I. APPLICABLE CODES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF LAKE WORTH AND ALL OTHER LOCAL, STATE AND NATIONAL CODES WHERE APPLICABLE. IN THE EVENT OF A CONFLICT, CITY OF LAKE WORTH SPECIFICATIONS WILL GOVERN.
- ALL CONSTRUCTION WILL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NATIONAL AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D.), UNLESS OTHERWISE NOTED.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF LAKE WORTH AND PALM BEACH COUNTY SPECIFICATIONS.

II. PRE CONSTRUCTION RESPONSIBILITIES

- UPON THE RECEIPT OF THE 'NOTICE TO PROCEED', THE CONTRACTOR SHALL CONTACT THE OWNER AND ARRANGE A PRE CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS AND THE OWNER.
- THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CALL 1-800-432-4770.
- ALL UTILITY EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED).
- LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS PROVIDED BY THE SURVEYOR (WHIDDEN SURVEYING AND MAPPING INC). THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY THAT IS NOT SHOWN. THE CONTRACTOR SHALL VERIFY, IF POSSIBLE, THE ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.

III. INSPECTIONS

- THE CONTRACTOR SHALL NOTIFY THE CITY OF LAKE WORTH ENGINEERING DEPARTMENT, THE CONSTRUCTION MANAGER, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS, WHERE APPLICABLE:

- CLEARING AND FILLING
- STORM DRAINAGE SYSTEM
- SANITARY SEWER SYSTEM
- WATER DISTRIBUTION SYSTEM
- SUBGRADE
- LIMEROCK BASE
- ASPHALTIC CONCRETE
- SIDEWALK
- FINAL INSPECTION

IV. TEMPORARY FACILITIES

- TEMPORARY FACILITIES:
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.
- TRAFFIC REGULATIONS:
 - MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH 2003 M.U.T.C.D. AND 2010 FDOT DESIGN STANDARDS OR LATEST EDITION
 - ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR SIDEWALKS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
 - NO HOLES OR TRENCHES NEAR SIDEWALKS, IN ROADWAYS OR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE, SAFE TRAVEL ROUTE.

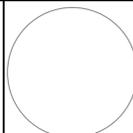
V. WATER DISTRIBUTION SYSTEM

- WATER, RECLAIMED WATER AND SEWER SEPARATION STATEMENT:
 - CLEARING AND FILLING STORM SEWER, GRAVITY WASTEWATER, FORCE MAIN AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF SIX (6) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE CROWN OF THE LOWER PIPE, WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/FORCE MAIN/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS. BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE SIX (6) INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/FORCE MAIN/RECLAIMED WATER PIPE JOINTS CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION EXCEPT THAT D.I.P. IS NOT REQUIRED FOR STORM SEWERS. ALL D.I.P. SHALL BE CLASS 50 OR HIGHER SEWERS.
 - FORCE MAIN CROSSING RECLAIMED WATER MAIN OR STORM SEWER SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF FORCE MAIN AND THE OUTSIDE OF THE RECLAIMED WATER MAIN OR STORM SEWER AND THE RECLAIMED WATER MAIN SHALL CROSS OVER FORCE MAIN.

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FAX: (561) 994-8524
CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision	Description



**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

GENERAL NOTES	
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C002

GENERAL NOTES (CONTINUED)

- AT THE UTILITY CROSSING DESCRIBED IN ITEMS 1 AND 2 ABOVE, ONE FULL LENGTH OF DUCTILE IRON WATER MAIN PIPE SHALL BE CENTERED SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE JOINTS. WHERE THIS IS NOT POSSIBLE, JOINTS SHALL BE AT LEAST THREE (3) FEET FROM STORM SEWERS AND RECLAIMED WATER MAINS AND SIX (6) FEET FROM GRAVITY SEWER MAINS AND FORCE MAINS.
- SEWER SERVICE LATERALS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM VERTICAL SEPARATION OF TWELVE (12) INCHES. IF 12" VERTICAL SEPARATION CANNOT BE MAINTAINED, THEN THE WATER MAIN SHALL BE D.I.P. AND THE SEWER SERVICE LATERAL SHALL BE C-900 SDR 18 OR BETTER AND THE MINIMUM SEPARATION SHALL BE SIX (6) INCHES. WHEN IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER THE SEWER SERVICE LATERAL A MINIMUM VERTICAL SEPARATION OF AT LEAST TWELVE (12) INCHES MUST BE MAINTAINED, THE WATER MAIN SHALL BE D.I.P. AND THE SEWER LATERAL SHALL BE C-900 SDR 18 OR BETTER.
- MAINTAIN MINIMUM SIX (6) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN AND STORM SEWER OR GRAVITY WASTEWATER MAIN. ADDITIONAL SEPARATION MAY BE REQUIRED AS OUTLINED IN THE CITY OF LAKE WORTH STANDARDS.
- MAINTAIN A MINIMUM OF THREE (3) FEET HORIZONTAL DISTANCE (OUTSIDE TO OUTSIDE) BETWEEN POTABLE WATER MAIN AND FORCE MAIN OR RECLAIMED WATER MAIN.

VI. PAVING:

A. GENERAL:

- ALL MUCK AND YIELDING MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL, WHICH SHALL BE COMPACTED AND SHAPED TO CONFORM TO THE REQUIRED SECTION. COMPACTED AREAS, AS SHOWN ON THE PLANS AND/OR AS DETERMINED BY THE ENGINEER, SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE, AS DETERMINED BY AASHTO T-180, LATEST REVISION. AREAS TO BE STABILIZED, AS DETERMINED BY THE ENGINEER, SHALL HAVE A MINIMUM LBR-40.
- ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
- ALL EXISTING PAVEMENT OUTSIDE OF THE PROJECT LIMITS, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.

B. MATERIALS:

- BASE COURSE SHALL BE CRUSHED LIMEROCK WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM.
- MINIMUM SIDEWALK CONSTRUCTION SHALL BE 4 INCH THICK CONCRETE (6" DEEP IN DRIVEWAYS) WITH MINIMUM 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SAW CUT CONSTRUCTION JOINTS 5 FOOT ON CENTER WITHIN 48 HOURS OF PLACING AND EXPANSION JOINTS SHALL BE 20 FOOT ON CENTER.
- CURBS: CONCRETE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SAWCUT CONSTRUCTION JOINTS 10 FOOT ON CENTER WITHIN 48 HOURS OF PLACING.
- ASPHALT AND SWALE RESTORATION SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS ON SHEETS C500 & C501.

C. INSTALLATION:

- SUBGRADE FOR PAVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180, AND SHALL HAVE A MINIMUM LBR-40.
- BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE AS SHOWN ON PLANS FOR VARIOUS LOCATIONS.
- BASE COURSE MATERIAL FOR CURBS AND GUTTERS SHALL BE A MINIMUM THICKNESS OF 6 INCHES.
- BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180 AND SHALL HAVE A MINIMUM LBR-100.
- INSTALLATION OF THE WEARING SURFACE SHALL CONFORM WITH THE REQUIREMENTS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR TYPE S-3 ASPHALTIC CONCRETE.

D. TESTING:

- THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WARNING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
- DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.
- ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE CONTRACTOR.
- DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE CONSTRUCTION MANAGER AND APPROVED BEFORE ANY LIMEROCK BASE IS CONSTRUCTED.
- SUBGRADE COMPACTION TESTING: THE FREQUENCY OF DENSITY VERIFICATION TESTING SHALL BE 3 TESTS (USUALLY EDGE OF ROADWAY - CROW/CENTER - EDGE OF ROADWAY) EVERY 100 LINEAR FEET AND 1 TEST FOR EVERY 100 LINEAR FEET OF CURB.
- DENSITY TESTS AND AS-BUILTS ON THE FINISHED LIMEROCK BASE SHALL BE SUPPLIED TO THE CONSTRUCTION MANAGER, AND APPROVED BEFORE ANY ASPHALT PAVEMENT IS CONSTRUCTED.
- LIMEROCK BASE COMPACTION TESTING: THE FREQUENCY OF DENSITY VERIFICATION TESTING SHALL BE 3 TESTS (USUALLY EDGE OF ROADWAY - CROWN/CENTER - EDGE OF ROADWAY) EVERY 100 LINEAR FEET AND 1 TEST FOR EVERY 100 LINEAR FEET OF CURB.

VII. PAVEMENT MARKING AND SIGNAGE

- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", LATEST EDITION; AND PALM BEACH COUNTY TRAFFIC ENGINEERING STANDARDS.

VIII. PROJECT CLOSEOUT

A. CLEANING UP:

- DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEPED BROOM CLEAN.

- THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES. TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THAT END, THE CONTRACTOR SHALL DO, AS REQUIRED, ALL NECESSARY HIGHWAY, DRIVEWAY, SIDEWALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
 - WHERE MATERIAL OR DEBRIS HAS WASHED, FLOWED INTO OR HAS BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.**
- C. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE CONSTRUCTION.**
- D. SPECIAL CONSIDERATION SHALL BE TAKEN BY THE CONTRACTOR TO RESTORE THE PROPOSED STAGING AREA BACK TO ITS ORIGINAL CONDITION OR BETTER. RESTORATION OF STAGING AREA SHALL INCLUDE RESTORATION OF ALL DAMAGED GRASS AND LANDSCAPING.**
- E. PROJECT RECORD DOCUMENTS:**
- DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH, MATERIAL AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
 - UPON COMPLETION OF UTILITY IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE CONSTRUCTION MANAGER "AS-BUILT" PLANS FOR THESE IMPROVEMENTS THE "AS-BUILT" PLANS SHALL SHOW THE LOCATIONS AND PERTINENT GRADES OF ALL WATER AND SEWER INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 50 FOOT INTERVALS, INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.
 - UPON COMPLETION OF THE WATER AND SEWER SYSTEMS AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION MANAGER ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS FOR REVIEW AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ALL IMPROVEMENTS.
 - "AS-BUILT" INFORMATION OF GRAVITY SEWERS MUST CONTAIN LOCATION OF SERVICE LATERALS AND INVERT ELEVATIONS. STATIONING OF THE WYE, CLEAN-OUTS, AND THE SERVICE END MUST ALSO BE INCLUDED.
 - ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
 - WATER & SEWER AS-BUILTS MUST MEET CITY OF LAKE WORTH REQUIREMENTS. PLEASE REFER TO CITY OF LAKE WORTH RECORD DRAWINGS SUBMITTAL GUIDELINES.

EXISTING		PROPOSED	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
----	EXISTING PROPERTY LINE	-----○	PROPOSED WATERMAIN
--- WM --- WM ---	EXISTING WATERMAIN	-----○	PROPOSED SANITARY CLEANOUT
--- SS --- SS ---	EXISTING SANITARY SEWER	-----◆	PROPOSED FIRE HYDRANT ASSEMBLY
-----	EXISTING SWALE	-----	PROPOSED GATE VALVE
=====	EXISTING STORM PIPE	-----	PROPOSED DOUBLE WATER SERVICE w/ METER
-----	EXISTING TOP OF BANK	-----	PROPOSED SINGLE WATER SERVICE w/ METER
-----	EXISTING TOE OF SLOPE	-----	PROPOSED TEE
--- FM --- FM ---	EXISTING FORCE MAIN	-----	PROPOSED REDUCER
-----	EXISTING RIGHT OF WAY	-----	PROPOSED 90° BEND
-----	EXISTING PLAT LINES	-----	PROPOSED 45° BEND
--- OHW --- OHW --- OHW ---	EXISTING OVERHEAD WIRE	-----	PROPOSED 22.5° BEND
- x - x - x - x - x - x -	EXISTING FENCE LINE	-----	PROPOSED 11.25° BEND
-----	EXISTING EASEMENT	-----	PROPOSED CAP
-----	EXISTING CENTERLINE	-----	PROPOSED LINING AT EXISTING VCP SANITARY SEWER
-----	EXISTING WATER METER	-----	PROPOSED LINING OF VCP SANITARY SEWER LATERAL
-----	EXISTING LIGHT POLE	-----	MILL AND RESURFACE ROADWAY TYPE 2 (3/4" OVERLAY)
-----	EXISTING SANITARY SEWER MANHOLE	-----	MILL AND RESURFACE ROADWAY TYPE 1 (1 1/2" OVERLAY)
		-----	ROADWAY RECONSTRUCTION
		-----	DRIVEWAY/SIDEWALK PAVEMENT TO BE REPLACED
		-----	EXISTING WATERMAIN TO BE CUT, CAPPED AND ABANDONED
		-----	EXISTING WATERMAIN TO BE CUT, CAPPED AND GROUTED
		-----	PIPE CONFLICT RESOLUTION

ABBREVIATIONS

A.R.V.	=	AIR RELEASE VALVE
A.V.C.	=	ATMOSPHERIC VENT CONNECTION
ABDN	=	ABANDON
ACP	=	ASBESTOS CEMENT PIPE
B.O.P.	=	BOTTOM OF PIPE
C.I.P.	=	CAST IRON PIPE
C.L.W.	=	CITY OF LAKE WORTH
CMP	=	CORRUGATED METAL PIPE
CONC	=	CONCRETE
DIAM.	=	DIAMETER
D.I.P.	=	DUCTILE IRON PIPE
E	=	EAST
ELEV	=	ELEVATION
EP	=	EDGE OF PAVEMENT
EXF. TR	=	EXFILTRATION TRENCH
EXST	=	EXISTING
FH	=	FIRE HYDRANT
FM	=	FORCEMAIN
FNPT	=	FEMALE NATIONAL PIPE THREAD TAPER
G.V.	=	GATE VALVE
HORIZ	=	HORIZONTAL
HDPE	=	HIGH DENSITY POLYETHYLENE
INV	=	INVERT
I.E.	=	INVERT ELEVATION
I.R.M.	=	MANHOLE RIM
N	=	NORTH
NIC	=	NOT INCLUDED
MNPT	=	MALE NATIONAL PIPE THREAD TAPER
PG	=	PROFILE GRADE
PRB	=	POLLUTION RETARDANT BAFFLE
PROP.	=	PROPOSED
PVC	=	POLYVINYL CHLORIDE
POLY	=	POLYETHYLENE
RED	=	REDUCER
S	=	SOUTH
SP	=	SAMPLE POINT
S/W	=	SIDEWALK
T.O.P.	=	TOP OF PIPE
VCP	=	VITRIFIED CLAY PIPE
VERT	=	VERTICAL
WM	=	WATER MAIN

SURVEY LEGEND

CMP	=	CORRUGATED METAL PIPE	(C)	=	CALCULATED
COE	=	ARMY CORPS OF ENGINEERS	(P)	=	PLAT DIMENSION
P.B.	=	PLAT BOOK	R	=	RADIUS
PG	=	PAGE	L	=	ARC LENGTH
OHW	=	OVERHEAD WIRES	D	=	CENTRAL ANGLE
O.R.B.	=	OFFICIAL RECORD BOOK OF PALM BEACH COUNTY	P.I.	=	POINT OF INTERSECTION
☉	=	WOOD UTILITY POLE	℄	=	CENTERLINE
☉	=	SANITARY SEWER MANHOLE	⊗	=	DRAINAGE MANHOLE
☉	=	SPRINKLER HEAD	AT&T	=	AMERICAN TELEPHONE & TELEGRAPH
☆	=	LIGHT POLE	P.I.D.	=	PERMANENT IDENTIFICATION NUMBER
—	=	SIGN	◀	=	LANDSCAPE LIGHTS
HDPE	=	CORRUGATED PLASTIC PIPE	W.C.	=	WITNESS CORNER
PVC	=	POLY VINYL CHLORIDE	☐	=	CATCH BASIN
ENCR.	=	ENCROACHING	☐	=	CURB INLET
CORS	=	CONTINUOUS OPERATING REFERENCE STATION	⊕	=	TEST HOLE
R/W	=	RIGHT OF WAY	⊕	=	BENCHMARK

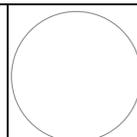
TREE LEGEND

☉	=	PALM TREE
☉	=	OAK TREE

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CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision	Description



**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

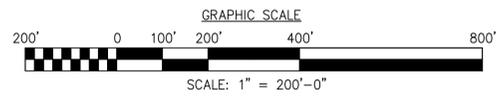
GENERAL NOTES, LEGEND AND ABBREVIATIONS

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

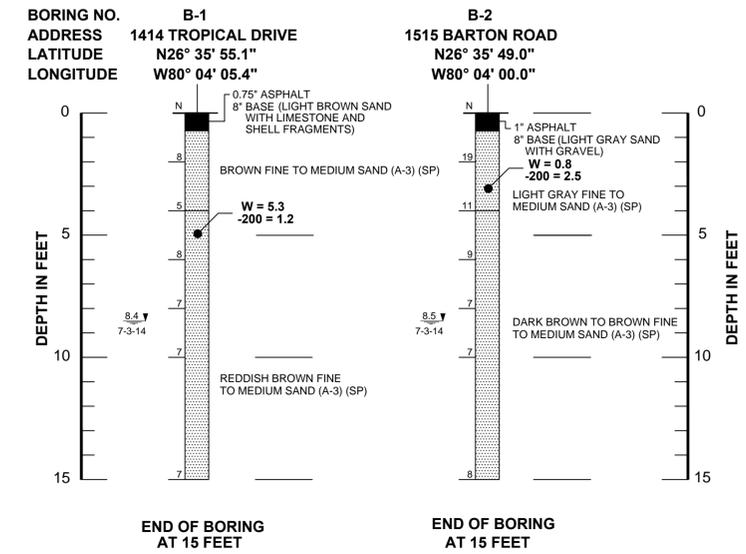
SHEET

C003

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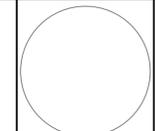
GEOTECHNICAL CORING DATA (EXISTING CONDITION)					
STREET	CORING LOCATION	ASPHALT THICKNESS (IN)	LIMEROCK BASE COURSE THICKNESS (IN)	SUBGRADE	SOURCE OF INFORMATION
TROPICAL DRIVE	C-1	0.75	8	FINE TO MEDIUM SAND	RADISE (URS SUB)
BARTON ROAD	C-2	1	8	FINE TO MEDIUM SAND	RADISE (URS SUB)



- LEGEND**
- PAVEMENT MATERIALS (ASPHALT AND AGGREGATE BASE MATERIALS)
 - ▨ SAND
 - B-1 STANDARD PENETRATION TEST BORING AND NUMBER
 - N SPT NUMBER USING AUTOMATIC HAMMER
 - 8.1 ↓ GROUNDWATER DEPTH IN FEET AND DRILLING DATE
 - SP UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)
 - A-3 AASHTO SOIL CLASSIFICATION SYSTEM GROUP SYMBOL
 - W NATURAL MOISTURE CONTENT (%)
 - 200 FINES PASSING U.S. STANDARD No. 200 SIEVE (%)
 - OC ORGANIC CONTENT (%)
 - GNE GROUNDWATER NOT ENCOUNTERED
- NOTES**
- (1) BORINGS WERE DRILLED ON JULY 2 THROUGH JULY 9, 2014 USING A CENTRAL MINE EQUIPMENT 45C (CME 45C) AUTOMATIC HAMMER DRILLING RIG.
 - (2) STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. SOIL TRANSITIONS MAY BE MORE GRADUAL THAN IMPLIED.
 - (3) GROUNDWATER LEVELS SHOWN ON THE SUBSURFACE PROFILES REPRESENT GROUNDWATER SURFACES ON THE DATES SHOWN. GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.
- STANDARD PENETRATION TEST DATA**
- | | |
|--------------------|------------|
| SPOON INSIDE DIA. | 1.375 INCH |
| SPOON OUTSIDE DIA. | 2.0 INCHES |
| AVG. HAMMER DROP | 30 INCHES |
| HAMMER WEIGHT | 140 POUNDS |
- GRANULAR MATERIALS**
- | | |
|------------------|------------------------------|
| RELATIVE DENSITY | AUTOMATIC HAMMER SPT N-VALUE |
| VERY LOOSE | LESS THAN 3 |
| LOOSE | 3 - 8 |
| MEDIUM | 8 - 24 |
| DENSE | 24 - 40 |
| VERY DENSE | GREATER THAN 40 |



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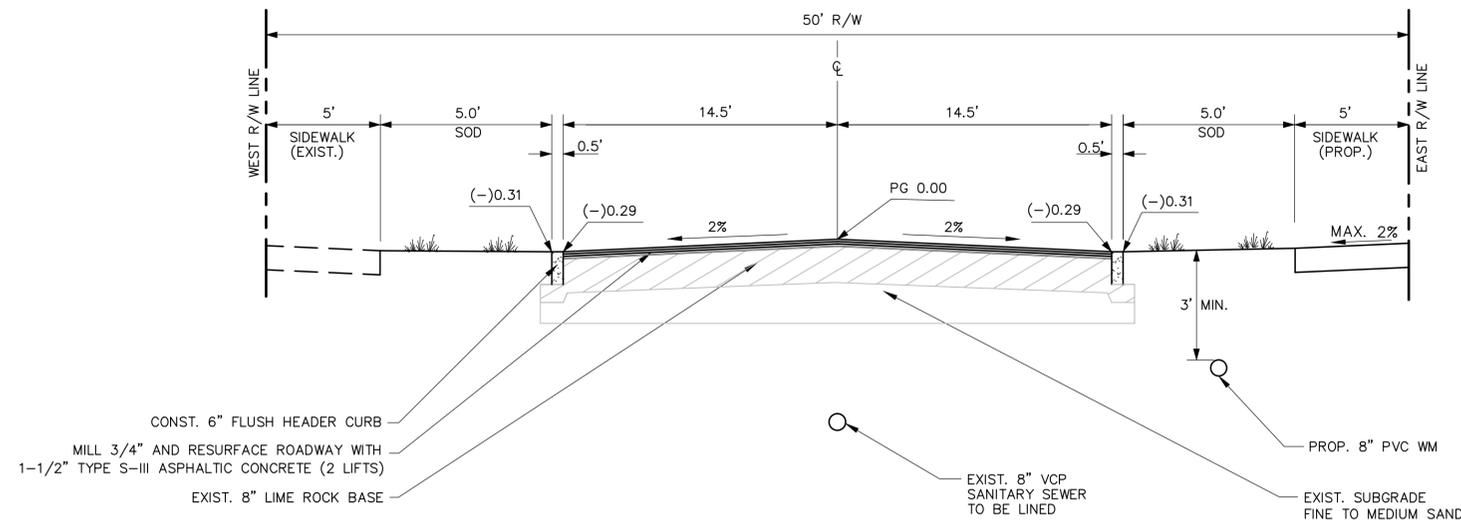


**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

GEOTECHNICAL BORING PLAN AND LOG	
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C004

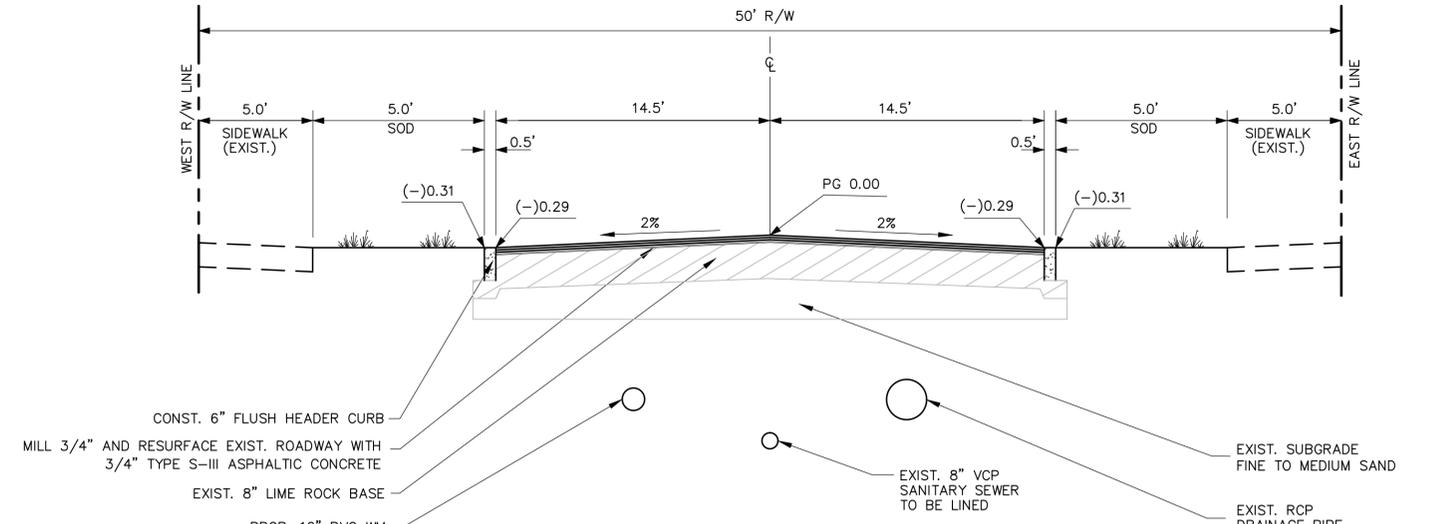
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**TROPICAL DRIVE
PROPOSED TYPICAL SECTION
MILLING AND RESURFACING
ROADWAY**

ASPHALTIC PAVEMENT SECTION:

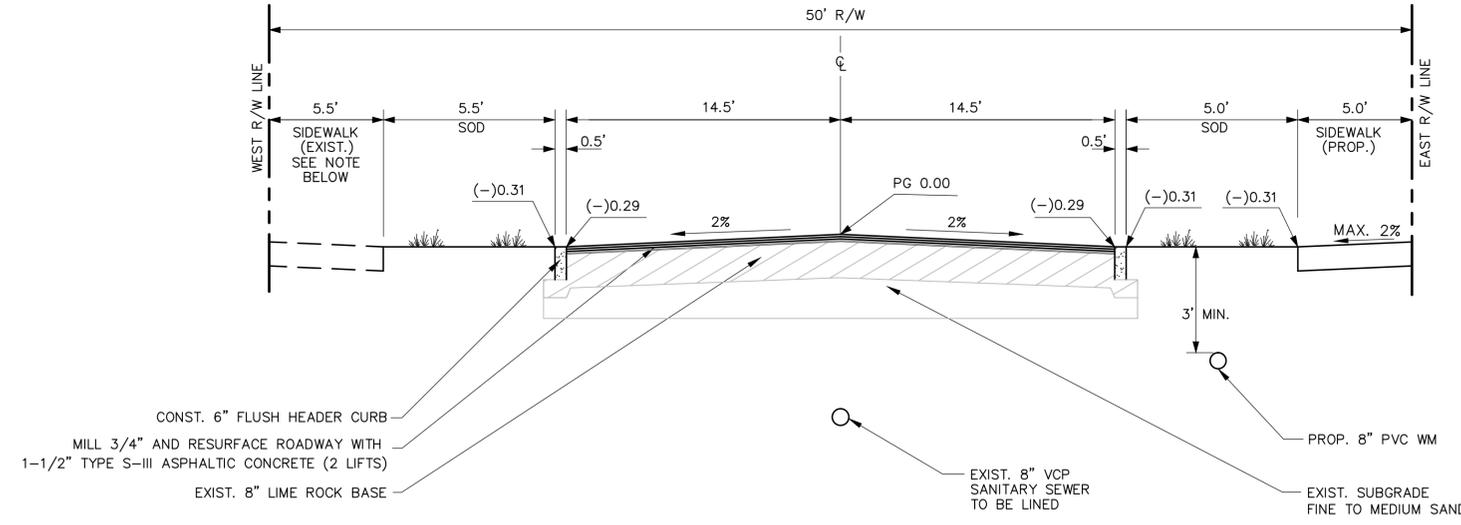
LAYER	COEF.	TOTAL
1-1/2" TYPE S-III A.C.S.C.	0.44	0.66
8" LIMEROCK BASE COURSE	0.18	1.44
12" STABILIZED SUBGRADE	0.08	0.96
TOTAL STRUCTURAL NUMBER		3.06



**BARTON ROAD
PROPOSED TYPICAL SECTION
MILLING AND RESURFACING
ROADWAY**

ASPHALTIC PAVEMENT SECTION:

LAYER	COEF.	TOTAL
1-1/2" TYPE S-III A.C.S.C.	0.44	0.33
8" LIMEROCK BASE COURSE	0.18	1.44
12" STABILIZED SUBGRADE	0.08	0.96
TOTAL STRUCTURAL NUMBER		2.73

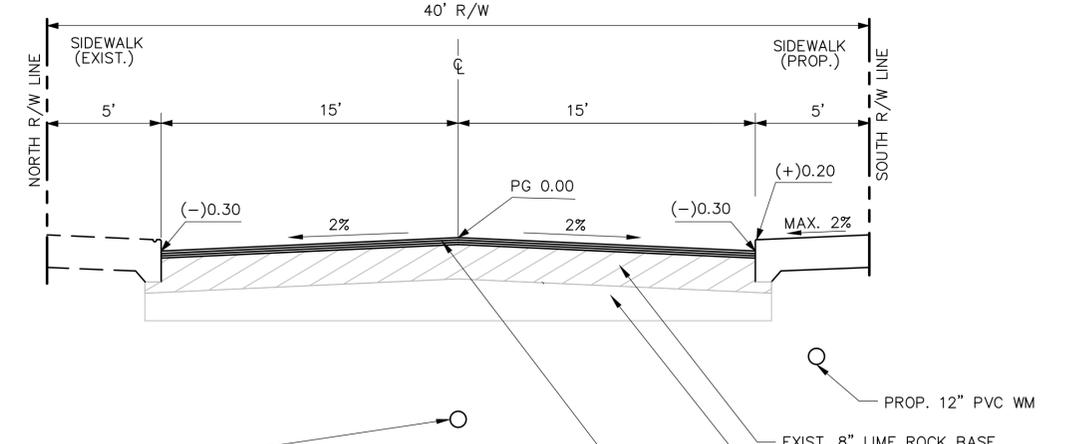


**SOUTH RIDGE STREET
PROPOSED TYPICAL SECTION
MILLING AND RESURFACING
ROADWAY**

ASPHALTIC PAVEMENT SECTION:

LAYER	COEF.	TOTAL
1-1/2" TYPE S-III A.C.S.C.	0.44	0.66
8" LIMEROCK BASE COURSE	0.18	1.44
12" STABILIZED SUBGRADE	0.08	0.96
TOTAL STRUCTURAL NUMBER		3.06

NOTE:
CONSTRUCT NEW SIDEWALK ON WEST SIDE OF SOUTH RIDGE STREET BETWEEN STATION 0+35 (+/-) TO STATION 2+65 (+/-) AND FROM 6+39 (+/-) TO STATION 7+16 (+/-). MATCH EXISTING SIDEWALK GRADES. PROVIDE 2% CROSS SLOPE TO ROADWAY.

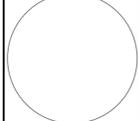


**SOUTH ROAD
PROPOSED TYPICAL SECTION
MILLING AND RESURFACING
ROADWAY**

ASPHALTIC PAVEMENT SECTION:

LAYER	COEF.	TOTAL
1-1/2" TYPE S-III A.C.S.C.	0.44	0.66
8" LIMEROCK BASE COURSE	0.18	1.44
12" STABILIZED SUBGRADE	0.08	0.96
TOTAL STRUCTURAL NUMBER		3.06

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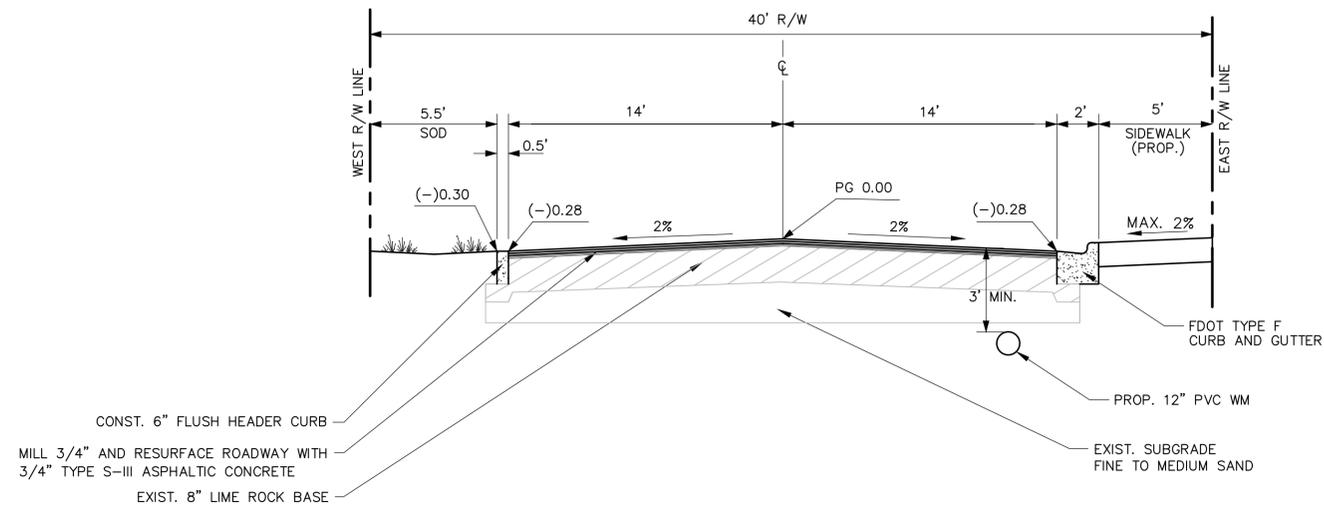
**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

ROADWAY TYPICAL SECTIONS

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C100

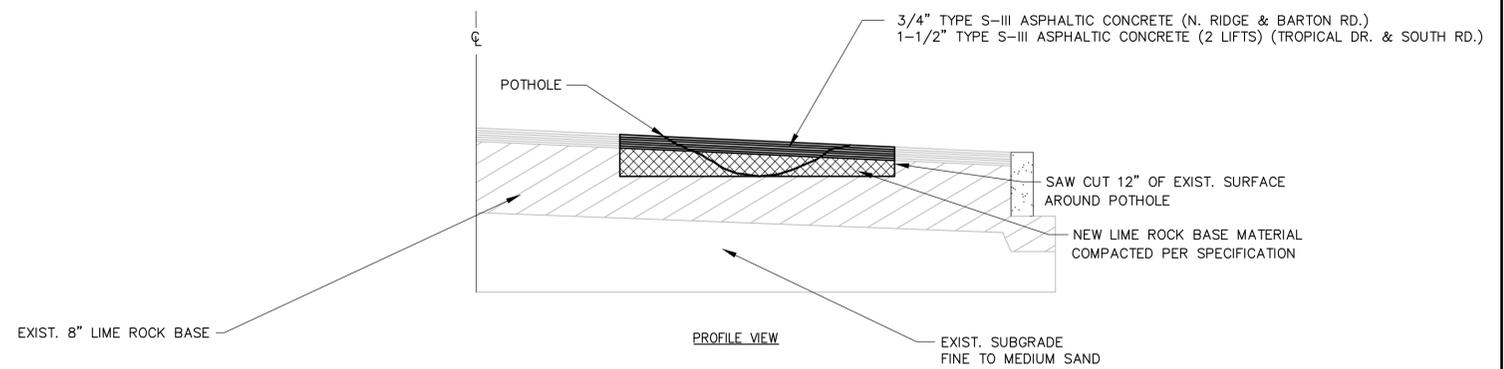
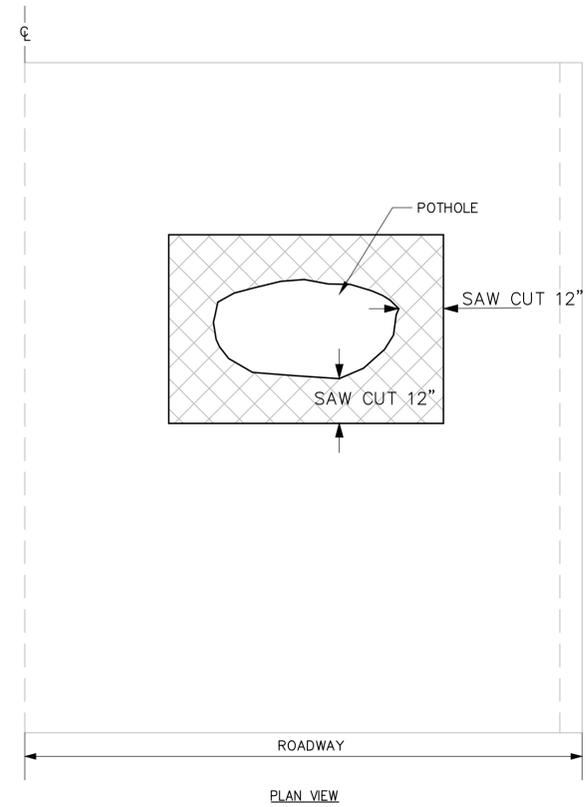
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**N. RIDGE STREET
PROPOSED TYPICAL SECTION
ROADWAY**
N.T.S.

ASPHALTIC PAVEMENT SECTION:

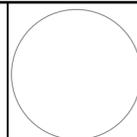
LAYER	CODE	TOTAL
3/4" TYPE S-III A.C.S.C.	0.44	0.33
8" LIMEROCK BASE COURSE	0.18	1.44
12" STABILIZED SUBGRADE	0.08	0.96
TOTAL STRUCTURAL NUMBER		2.73



**TYPICAL POT HOLE
REPAIR DETAIL**



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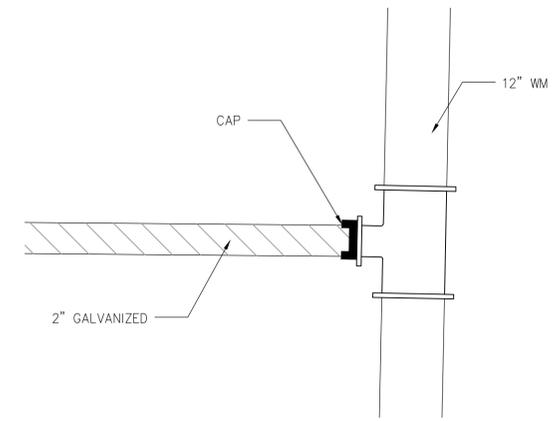
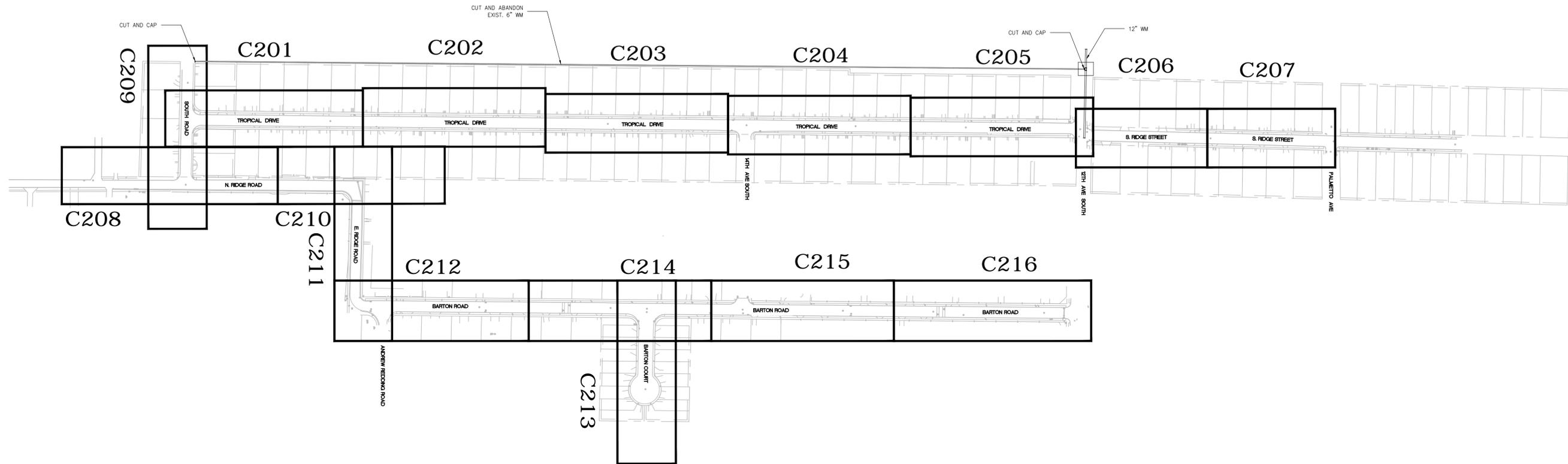
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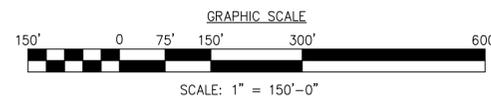
**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

ROADWAY TYPICAL SECTIONS CONT. AND POT HOLE REPAIR DETAIL	
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C101



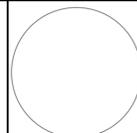
CUT AND CAP DETAILS
N.T.S.



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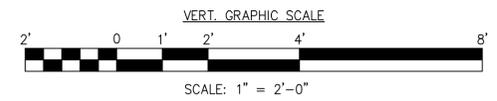
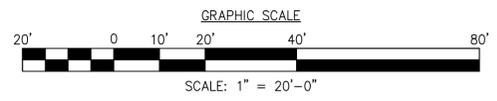
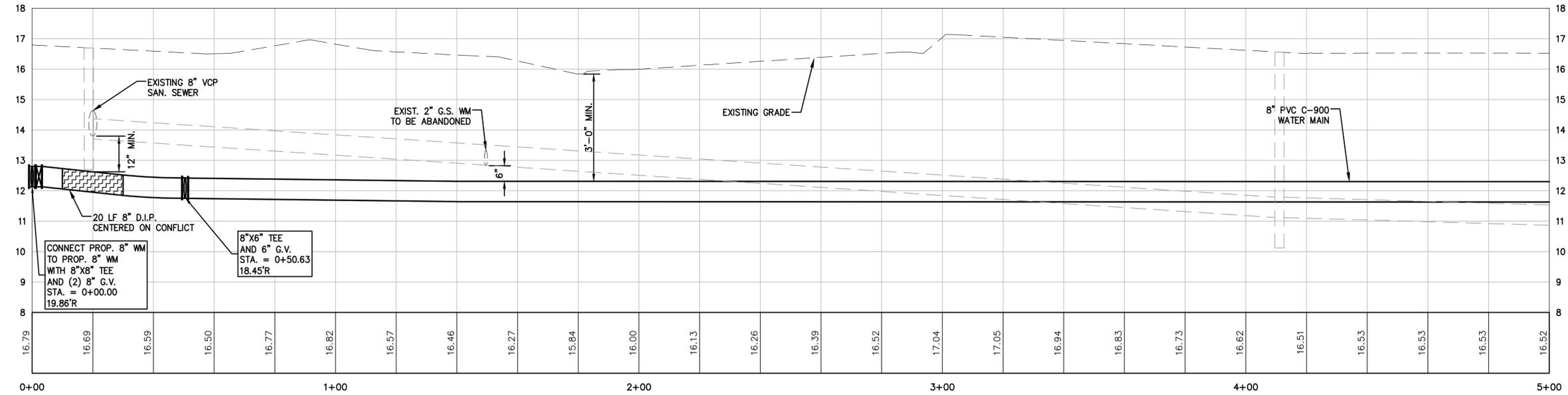
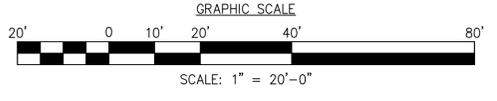
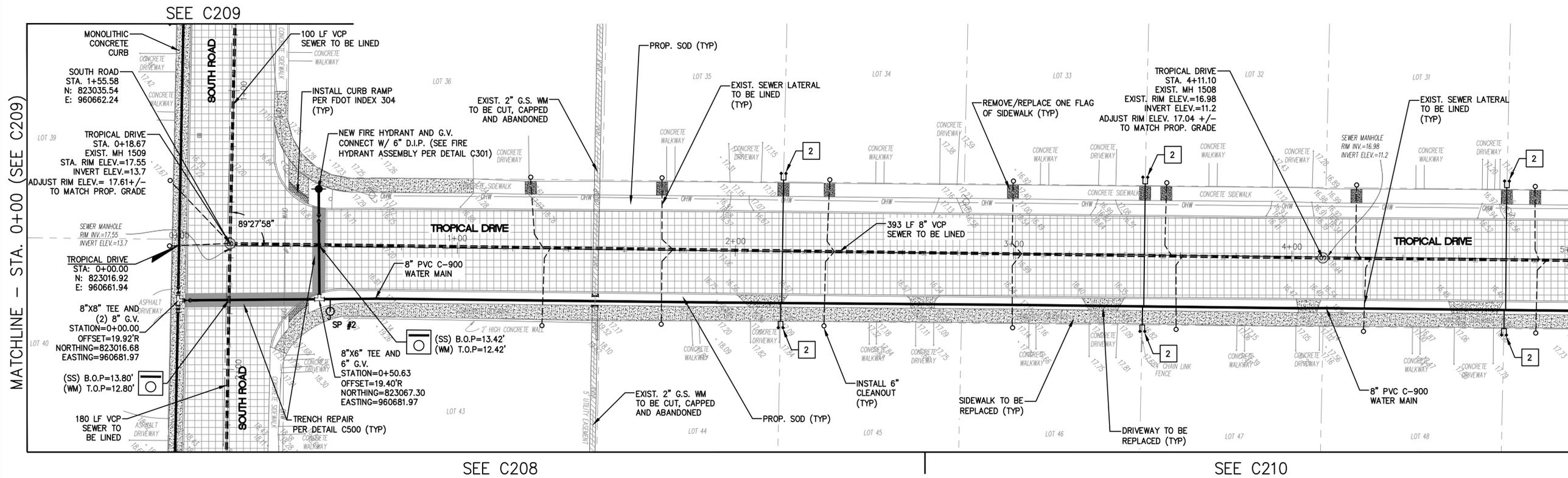


**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

KEY PLAN	
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

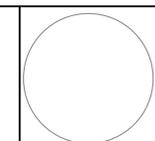
SHEET
C200

Z:\38619852 CIW\1-PROJECT\11-CAD\BID SET - Revision\PL01\C201.dwg - Thursday, April 07, 2016 4:16:37 PM



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2" OVERLAY)
 - MILL AND RESURFACE ROADWAY TYPE 2 (3/4" OVERLAY)
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.
- METER KEYNOTES:**
- 1 SINGLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 2 DOUBLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 3 SINGLE WATER SERVICE TO INCLUDE NEW METER. USE EXISTING METER BOX.

URS
 7800 CONGRESS AVENUE, SUITE 200
 BOCA RATON, FLORIDA 33487-1350
 PHONE: (561) 994-6500
 FAX: (561) 994-6524
 CERT. OF AUTHORIZATION NO. 1213



DATE: _____
 ENGINEER OF RECORD:
 RALPH HAYDEN, PE
 FL. REG. NUMBER: 20844

#	Date	Revision	Description



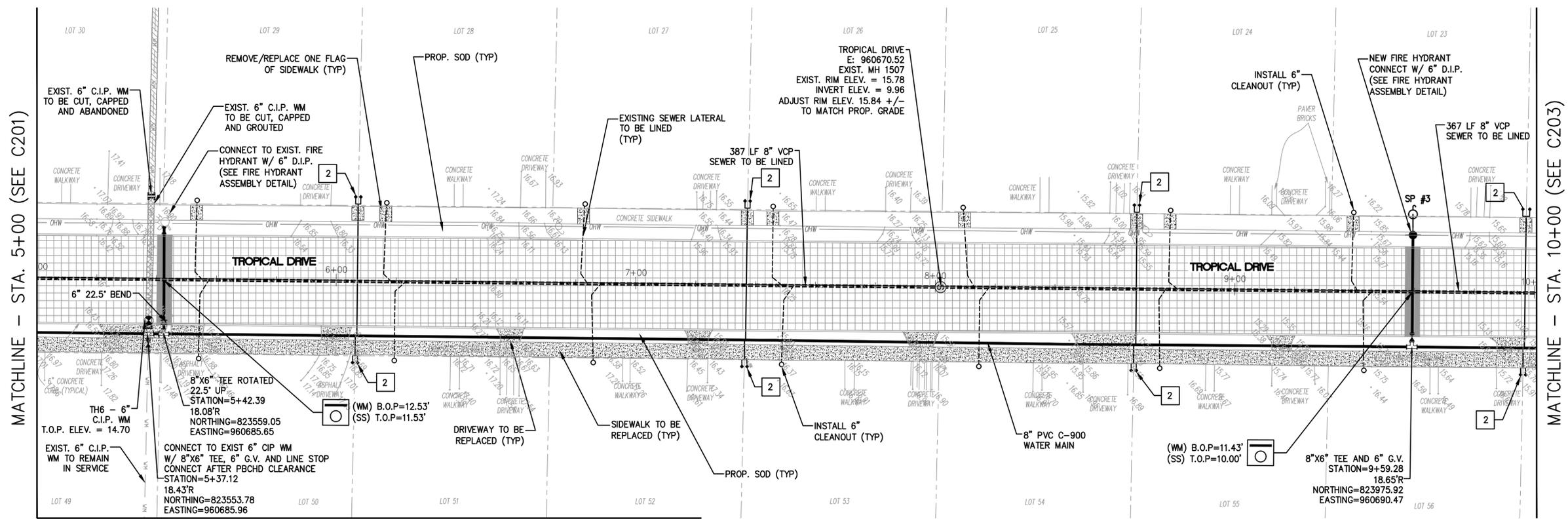
CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE
 (TROPICAL DRIVE) STA.
 0+00 TO 5+00

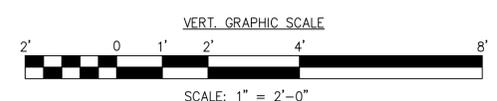
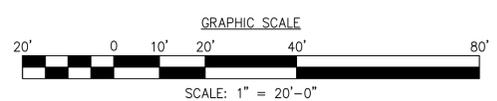
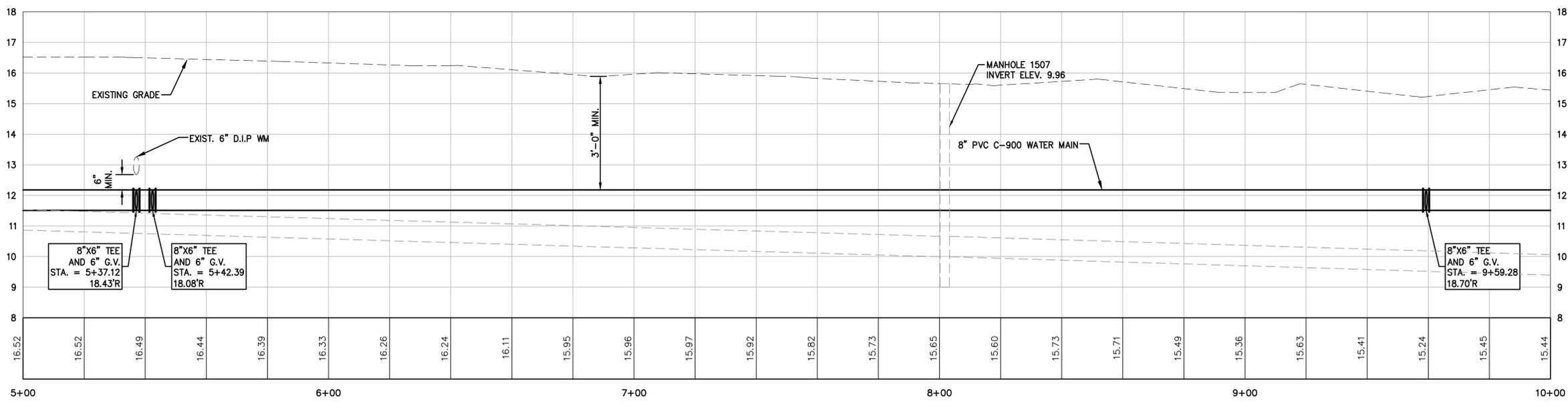
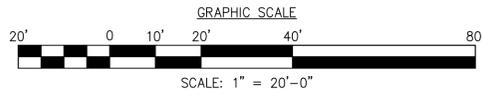
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C201

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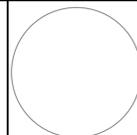
SEE C210



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2\"/>
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.
- METER KEYNOTES:**
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RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision Description



CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

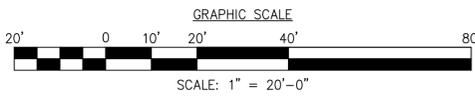
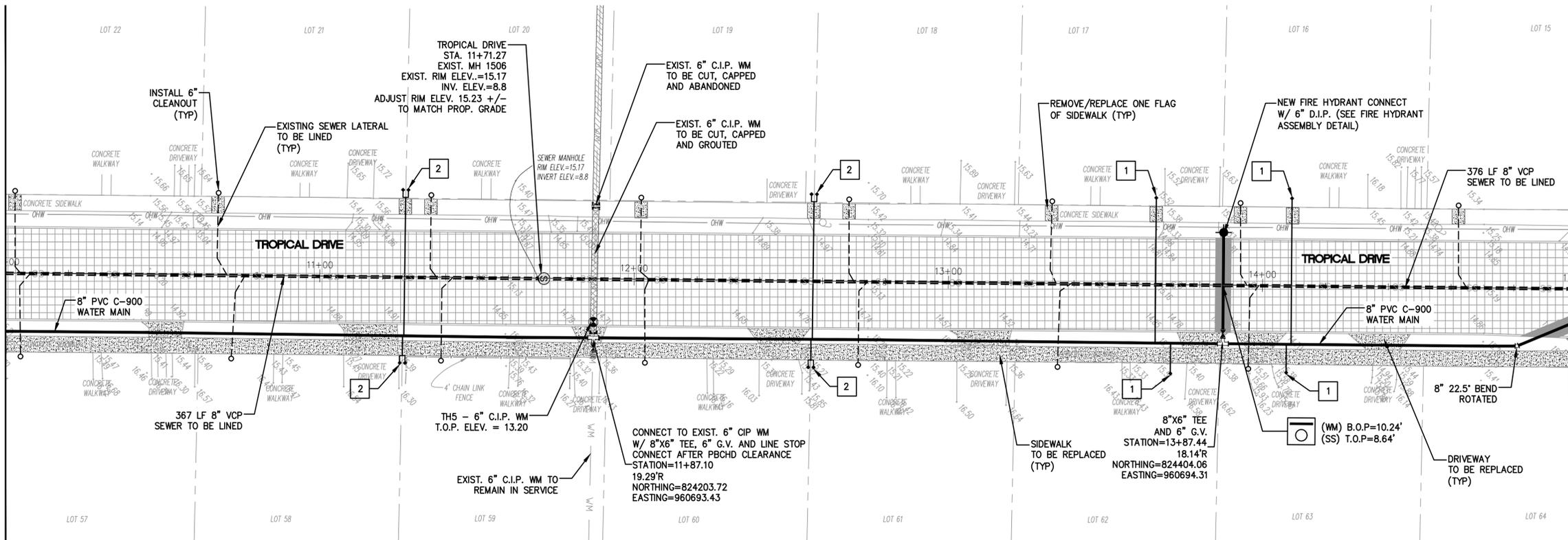
PLAN AND PROFILE
(TROPICAL DRIVE) STA.
5+00 TO 10+00
DWN: MH
CHK: RH
APV: RH
DSN: WRB/MH
SCALE: AS SHOWN
DATE: 04/07/2016

SHEET
C202



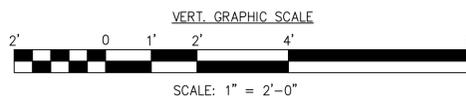
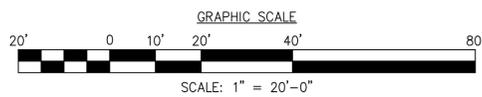
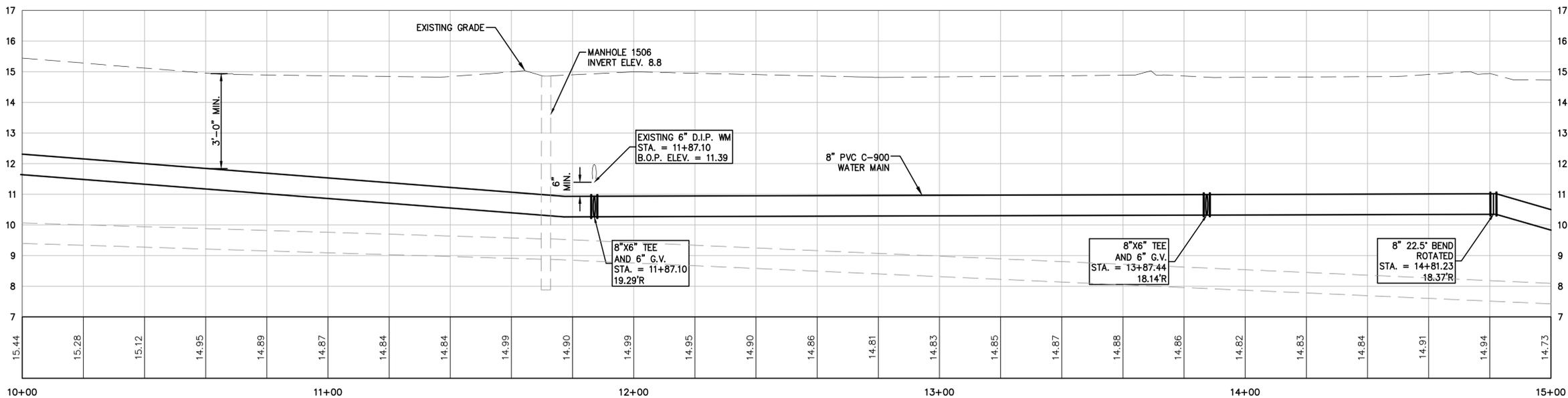
MATCHLINE - STA. 10+00 (SEE C202)

MATCHLINE - STA. 15+00 (SEE C204)



LEGEND:

- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2\"/>
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.

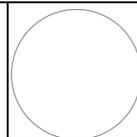


METER KEYNOTES:

- SINGLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
- DOUBLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
- SINGLE WATER SERVICE TO INCLUDE NEW METER. USE EXISTING METER BOX.



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CERT. OF AUTHORIZATION NO. 1213



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ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision	Description



CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE
(TROPICAL DRIVE) STA.
10+00 TO 15+00

DWN: MH
CHK: RH
APV: RH

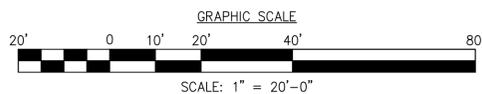
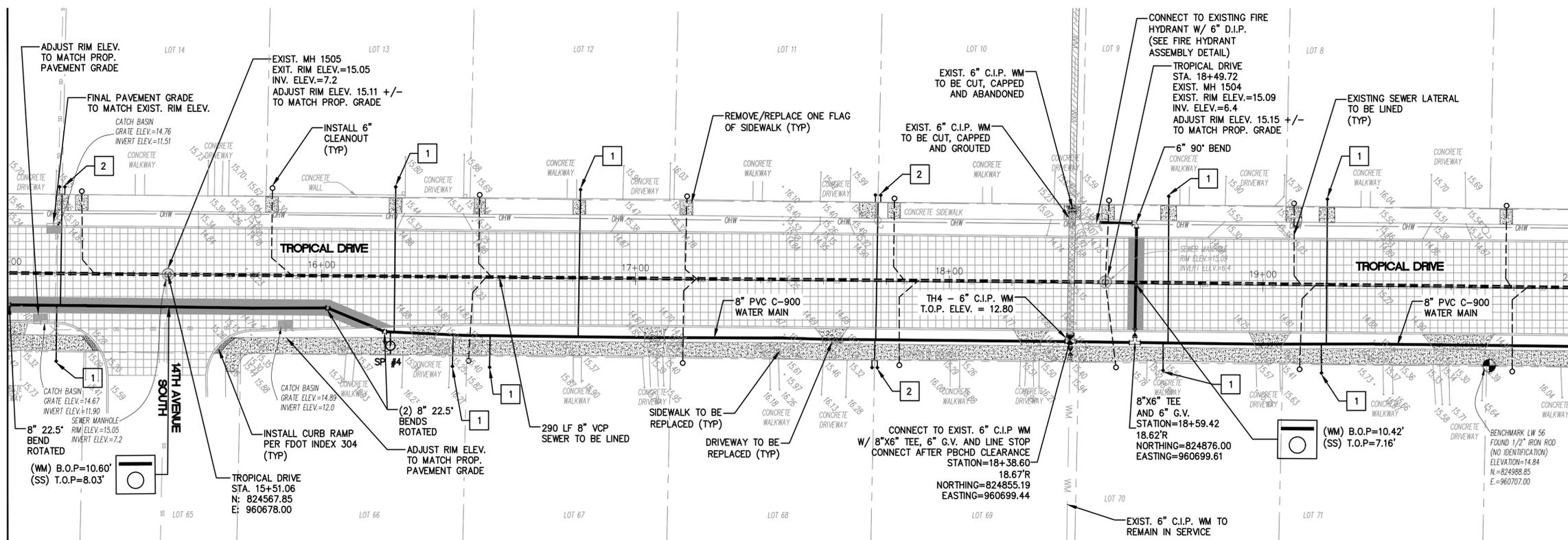
DSN: WRB/MH
SCALE: AS SHOWN
DATE: 04/07/2016

SHEET
C203

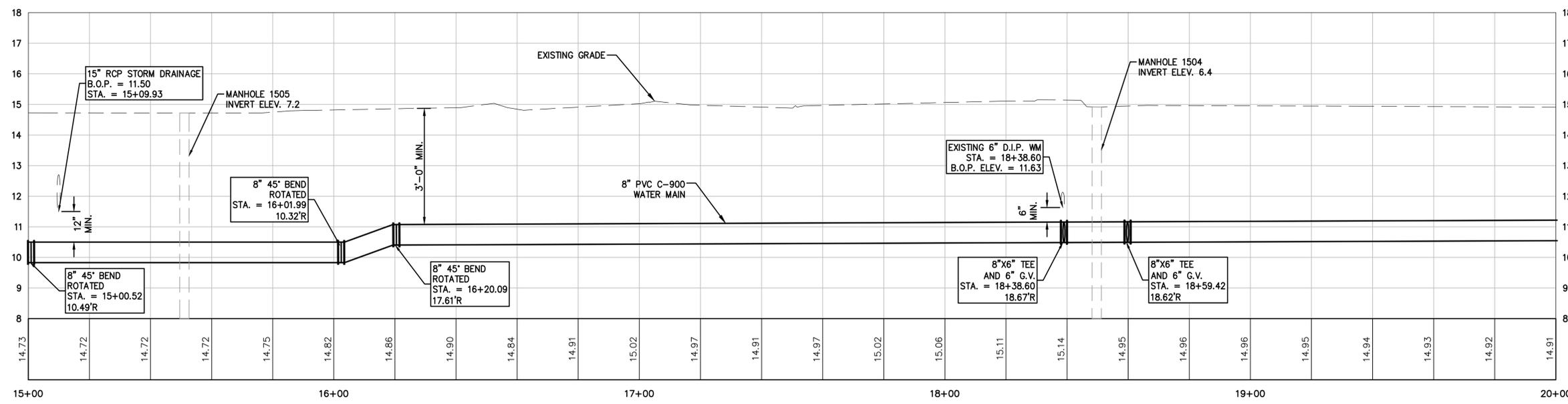
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MATCHLINE - STA. 15+00 (SEE C203)

MATCHLINE - STA. 20+00 (SEE C205)



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- SEWER**
- EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2" OVERLAY)
 - MILL AND RESURFACE ROADWAY TYPE 2 (3/4" OVERLAY)
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.

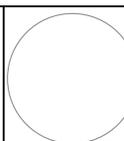


- METER KEYNOTES:**
- 1 SINGLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 2 DOUBLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 3 SINGLE WATER SERVICE TO INCLUDE NEW METER. USE EXISTING METER BOX.

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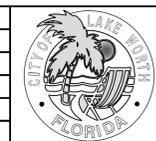


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DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision Description

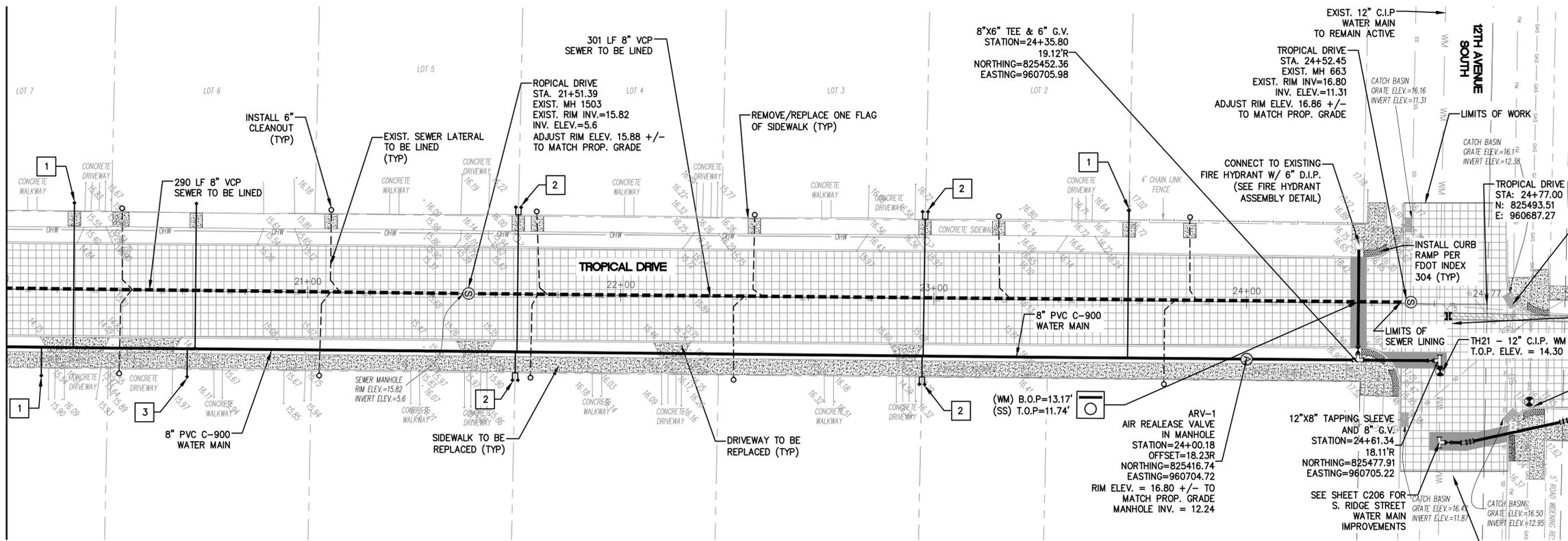


CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

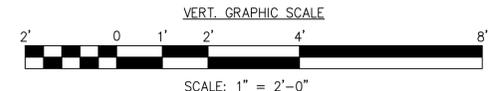
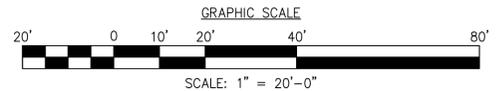
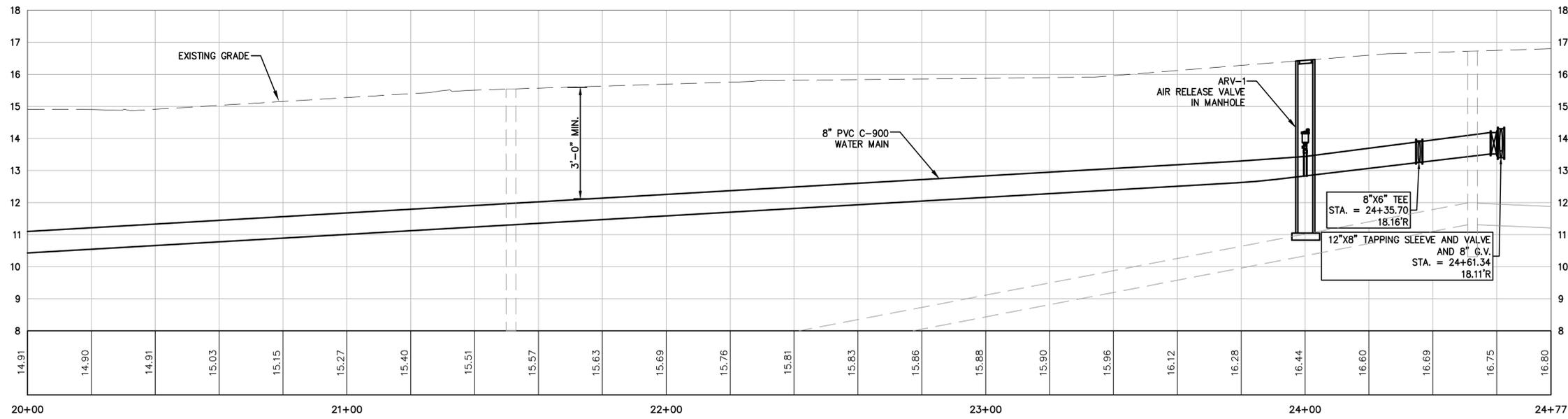
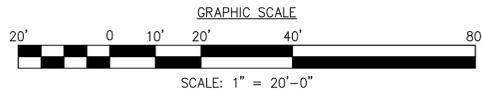
PLAN AND PROFILE
(TROPICAL DRIVE) STA.
15+00 TO 20+00
DWN: MH DSN: WRB/MH
CHK: RH SCALE: AS SHOWN
APV: RH DATE: 04/07/2016

SHEET
C204

MATCHLINE - STA. 20+00 (SEE C204)



SEE C206



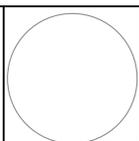
- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2" OVERLAY)
 - MILL AND RESURFACE ROADWAY TYPE 2 (3/4" OVERLAY)
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.

- METER KEYNOTES:**
- 1 SINGLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 2 DOUBLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 3 SINGLE WATER SERVICE TO INCLUDE NEW METER. USE EXISTING METER BOX.

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CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision Description

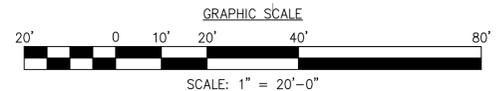
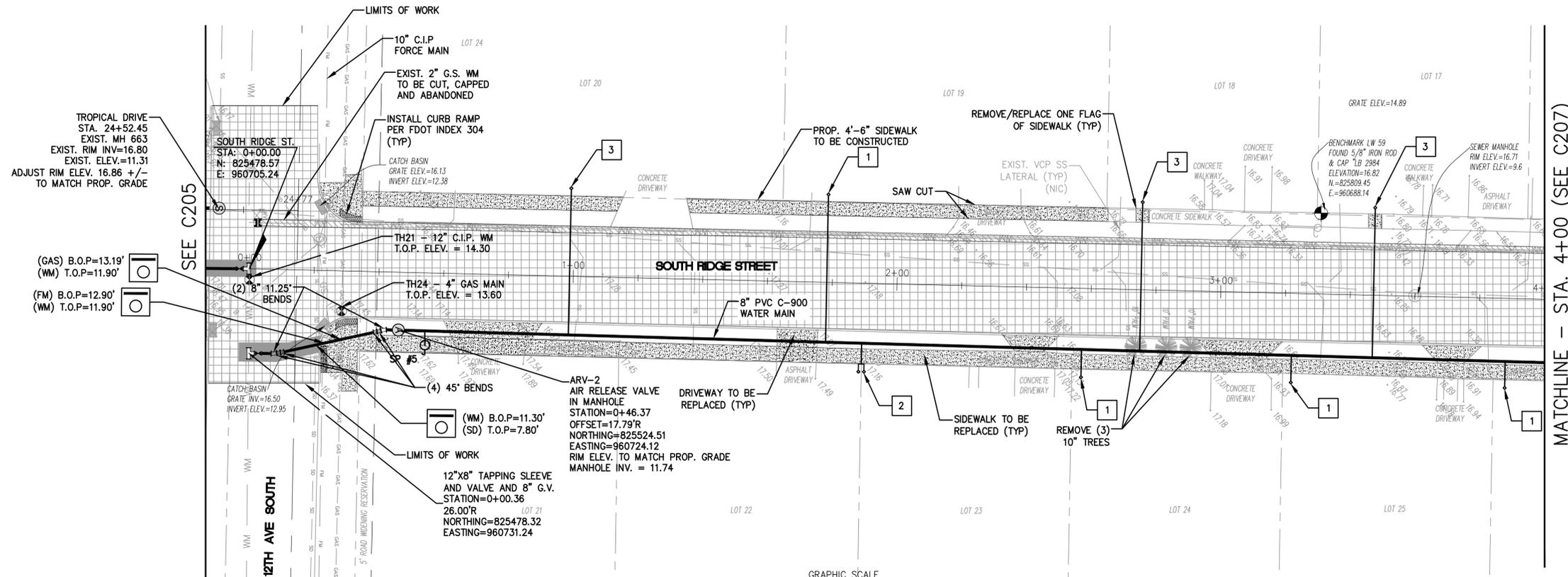


CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

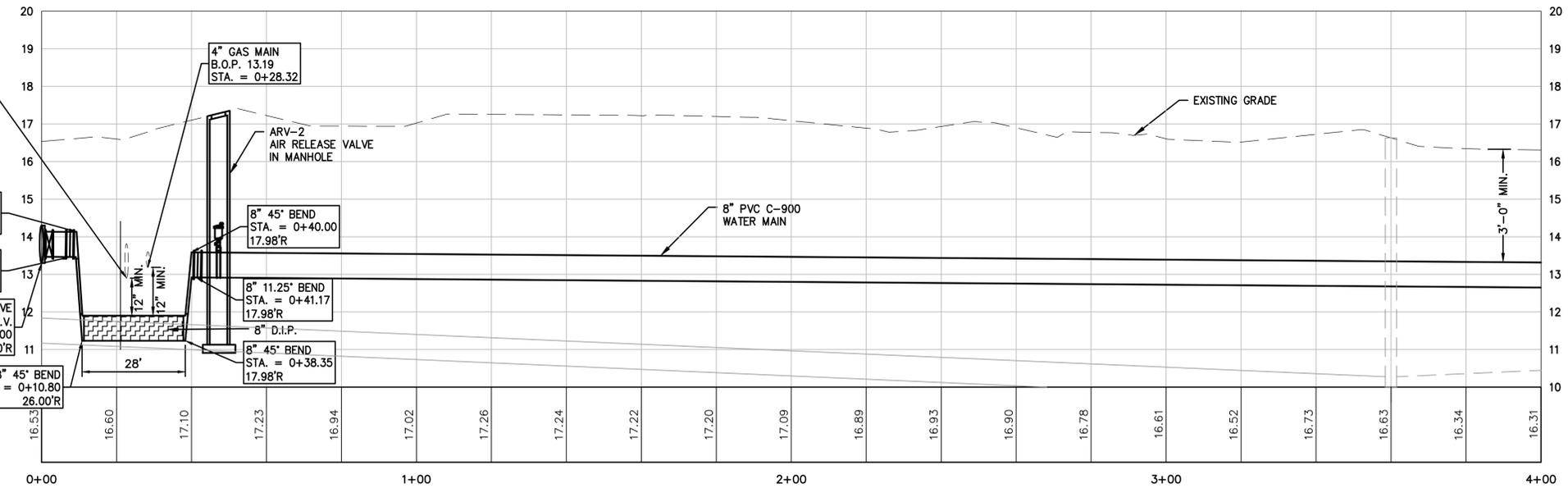
PLAN AND PROFILE
(TROPICAL DRIVE) STA.
20+00 TO 24+77

DWN: MH DSN: WRB/MH
CHK: RH SCALE: AS SHOWN
APV: RH DATE: 04/07/2016

SHEET
C205



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - SD EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2\"/>
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.

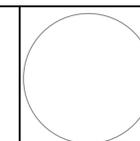


- METER KEYNOTES:**
- SINGLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - DOUBLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - SINGLE WATER SERVICE TO INCLUDE NEW METER. USE EXISTING METER BOX.

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BOCA RATON, FLORIDA 33487-1350
PHONE: (561) 994-6500
FAX: (561) 994-6524
CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision Description



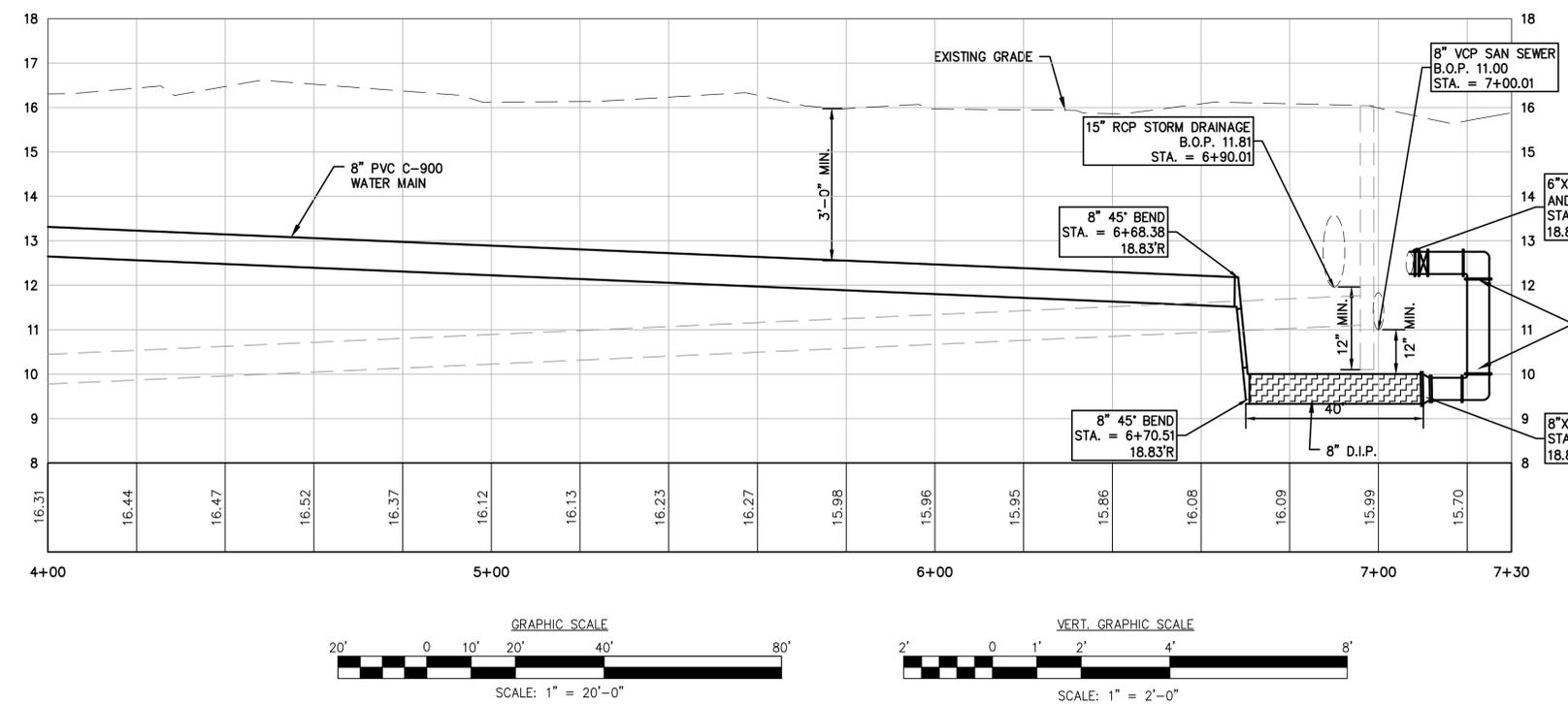
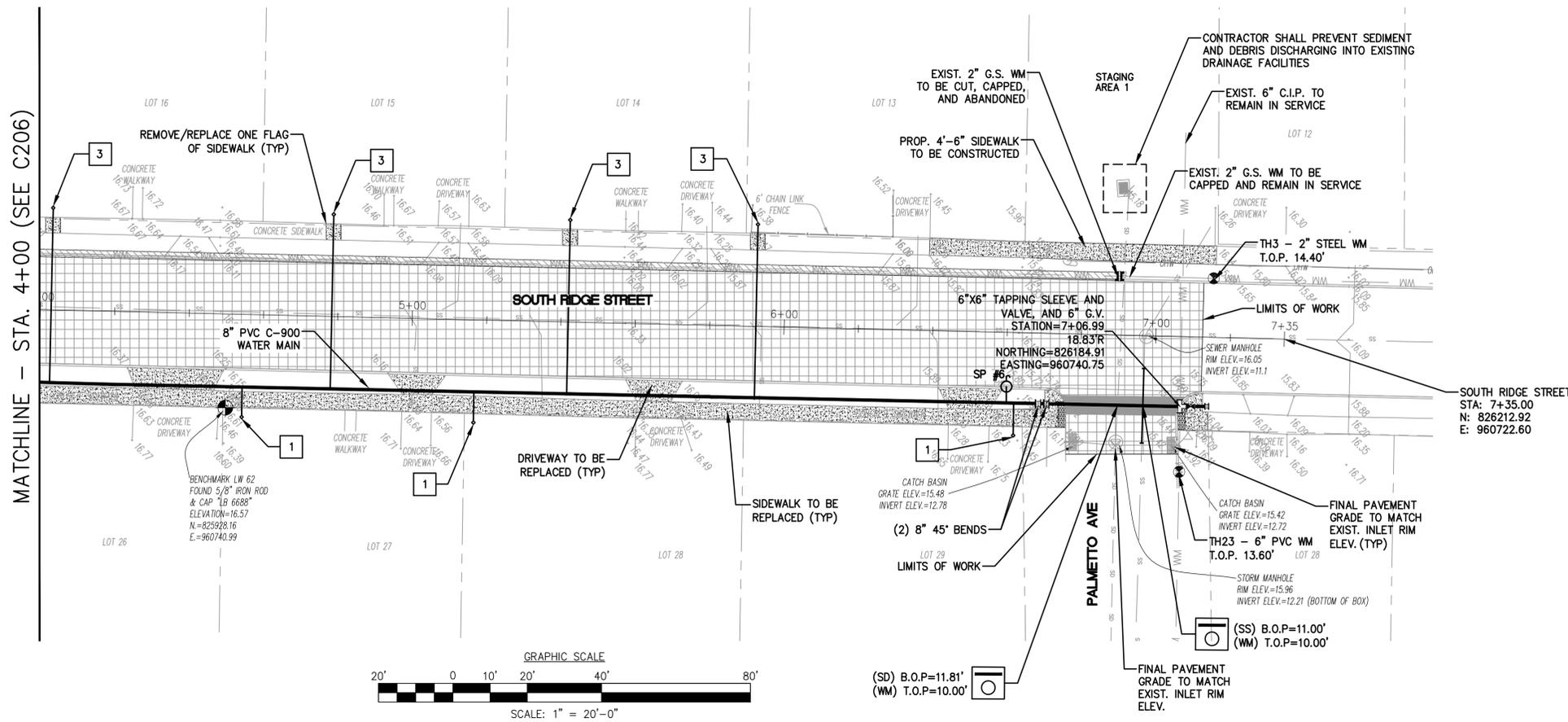
CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE
(SOUTH RIDGE ST.) STA.
0+00 TO 4+00

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

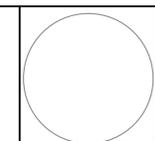
SHEET
C206

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URS

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FAX: (561) 994-6524
CERT. OF AUTHORIZATION NO. 1213



DATE: _____

ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision	Description



CITY OF LAKE WORTH

INFRASTRUCTURE IMPROVEMENTS

PALM BEACH COUNTY, FLORIDA

TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE
(SOUTH RIDGE ST.) STA.
4+00 TO 7+35

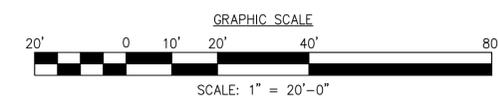
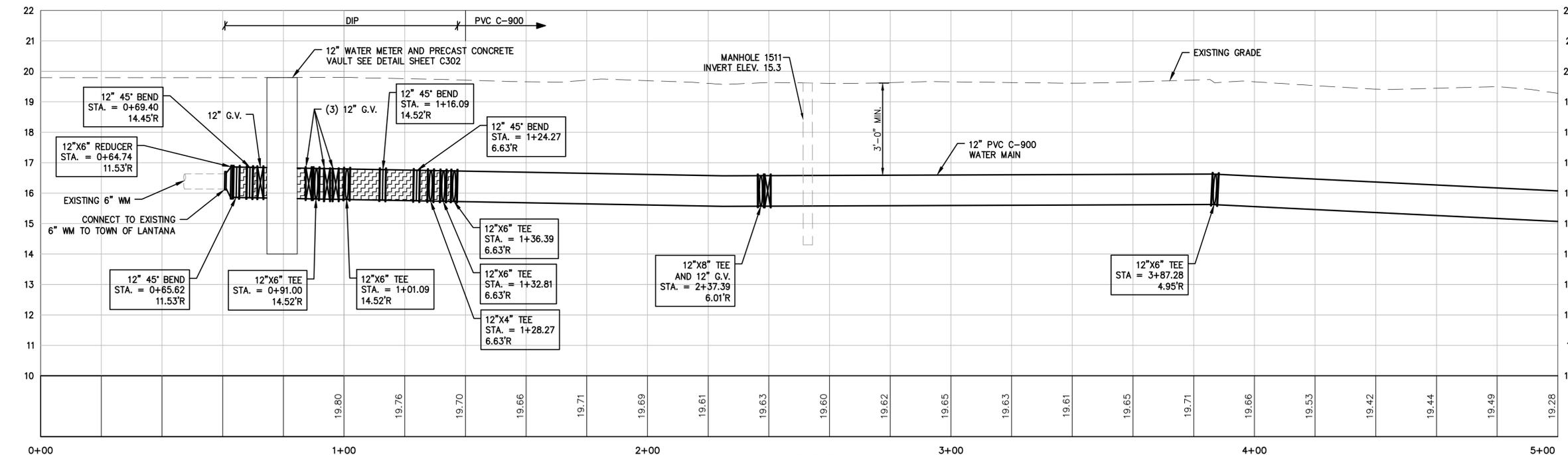
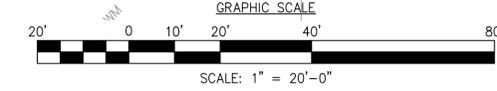
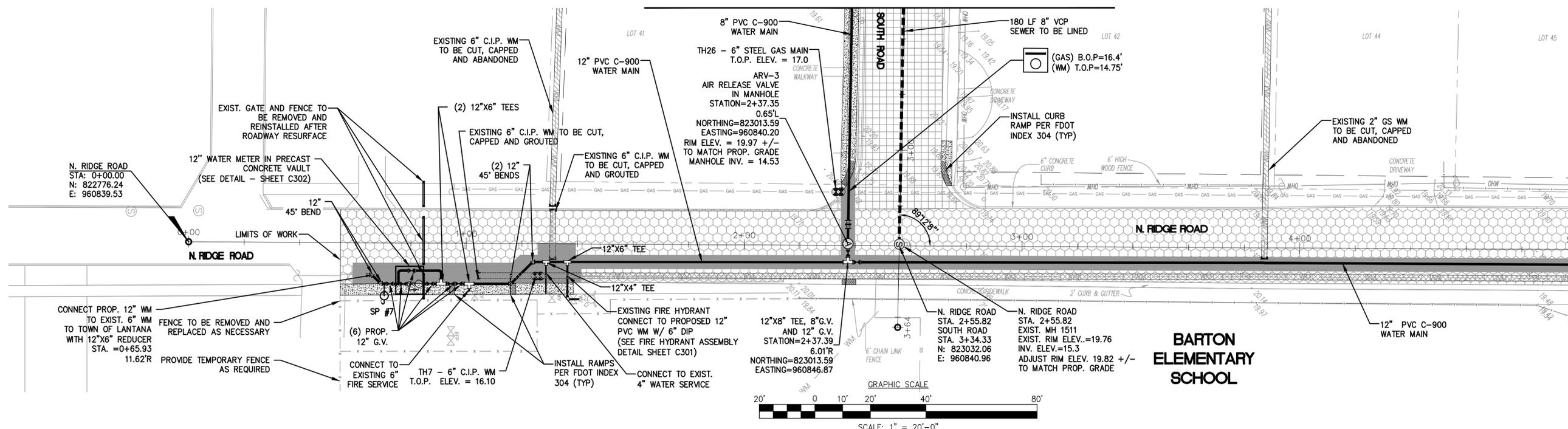
DWN: MH DSN: WRB/MH
CHK: RH SCALE: AS SHOWN
APV: RH DATE: 04/07/2016

SHEET
C207

SEE C209



MATCHLINE - STA. 5+00 (SEE C210)



LEGEND:

- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUDED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED

- SEWER**
- EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2\"/>

PROFILE

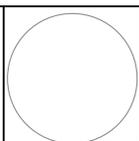
D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.

METER KEYNOTES:

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- DOUBLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
- SINGLE WATER SERVICE TO INCLUDE NEW METER. USE EXISTING METER BOX.



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 CERT. OF AUTHORIZATION NO. 1213



DATE: _____
 ENGINEER OF RECORD:
 RALPH HAYDEN, PE
 FL. REG. NUMBER: 20844

#	Date	Revision Description

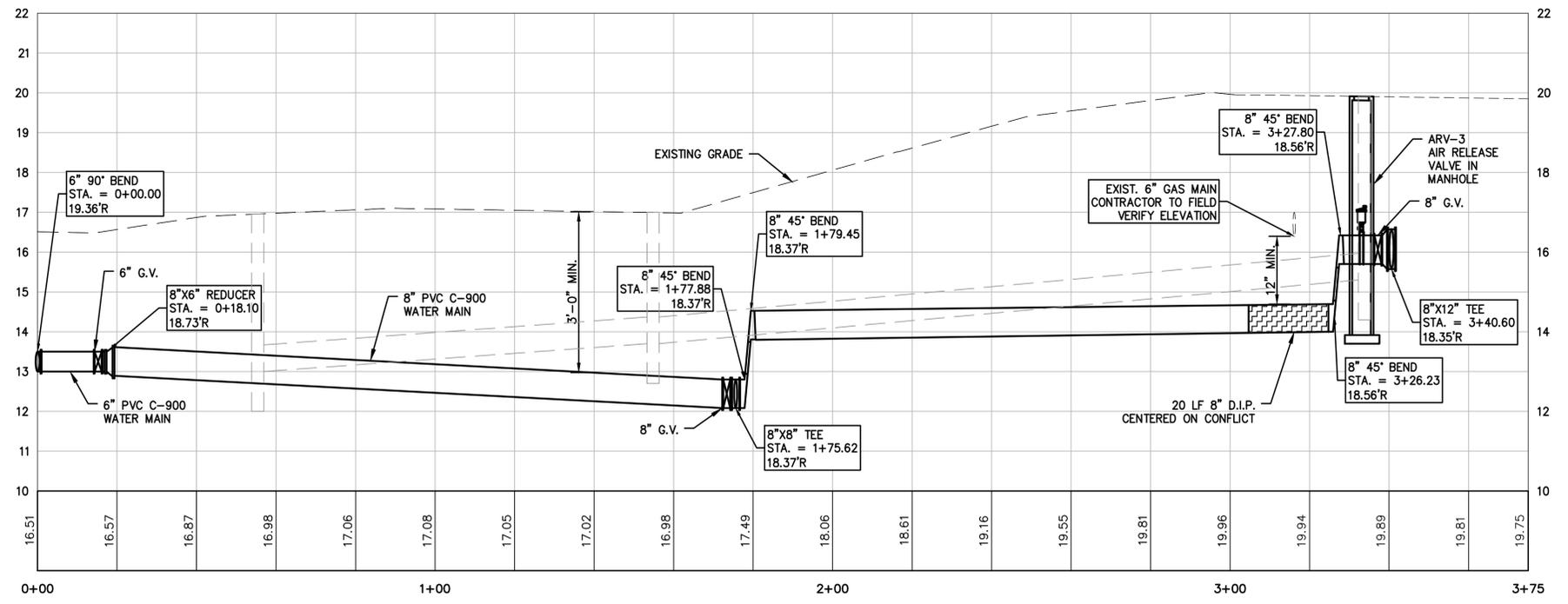
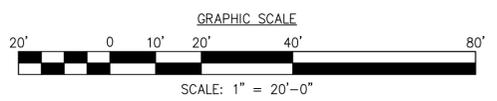
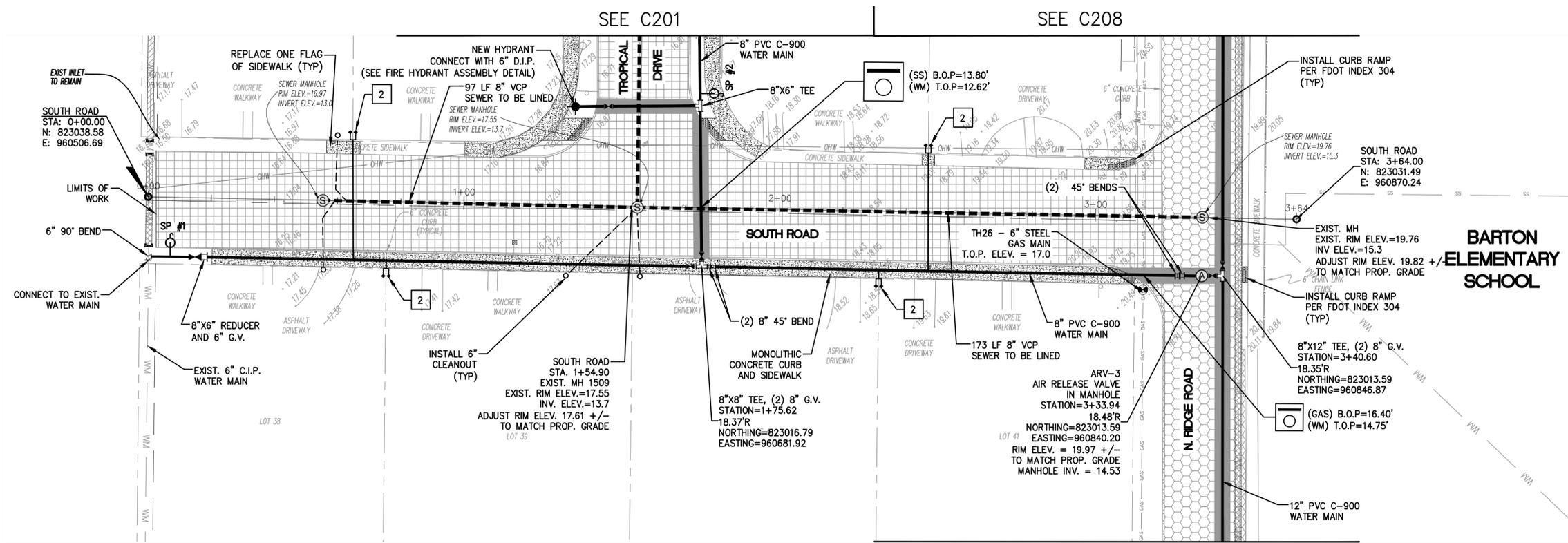


CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE (N RIDGE ROAD) STA. 0+00 TO 5+00
 DWN: MH DSN: WRB/MH
 CHK: RH SCALE: AS SHOWN
 APV: RH DATE: 04/07/2016

SHEET
C208

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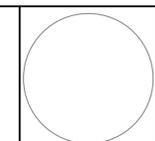


- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2" OVERLAY)
 - MILL AND RESURFACE ROADWAY TYPE 2 (3/4" OVERLAY)
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.
- METER KEYNOTES:**
- 1 SINGLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 2 DOUBLE WATER SERVICE TO INCLUDE NEW METER AND RELOCATED METER BOX. SERVICE RELOCATED FROM BACK OF LOT.
 - 3 SINGLE WATER SERVICE TO INCLUDE NEW METER. USE EXISTING METER BOX.

Z:\38619852 CIW\1-PROJECT\11-CAD\BD SET - Revision\11-CAD\BD SET - Thursday, April 07, 2016 4:24:14 PM



7800 CONGRESS AVENUE, SUITE 200
BOCA RATON, FLORIDA 33487-1350
PHONE: (561) 994-6500
FAX: (561) 994-6524
CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision	Description



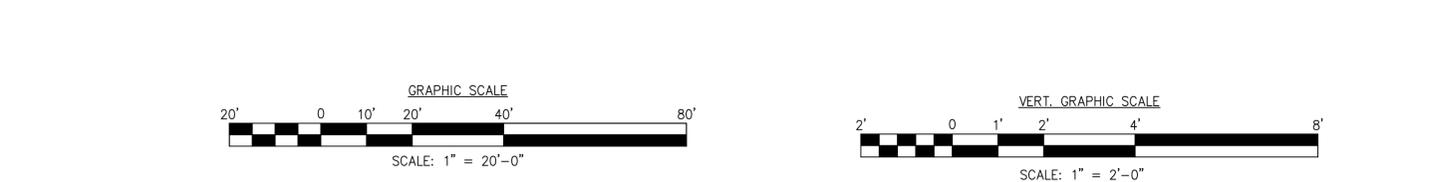
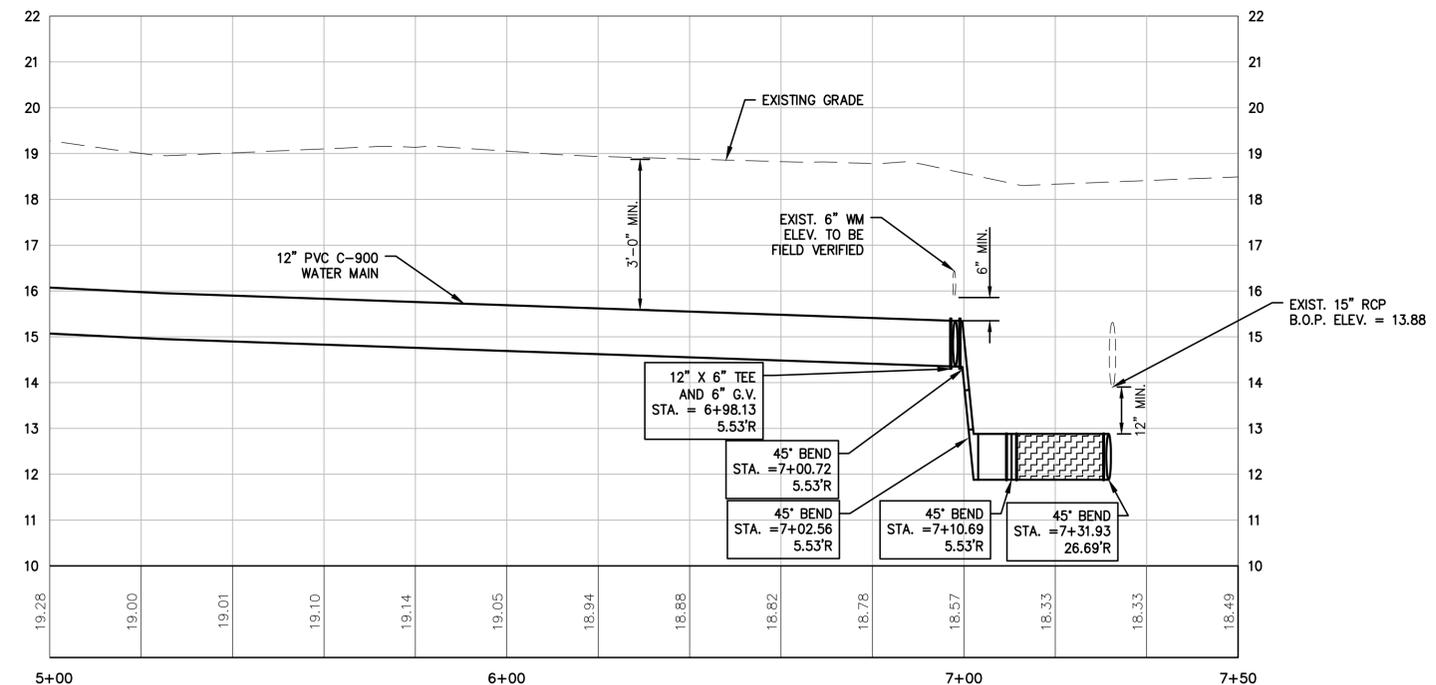
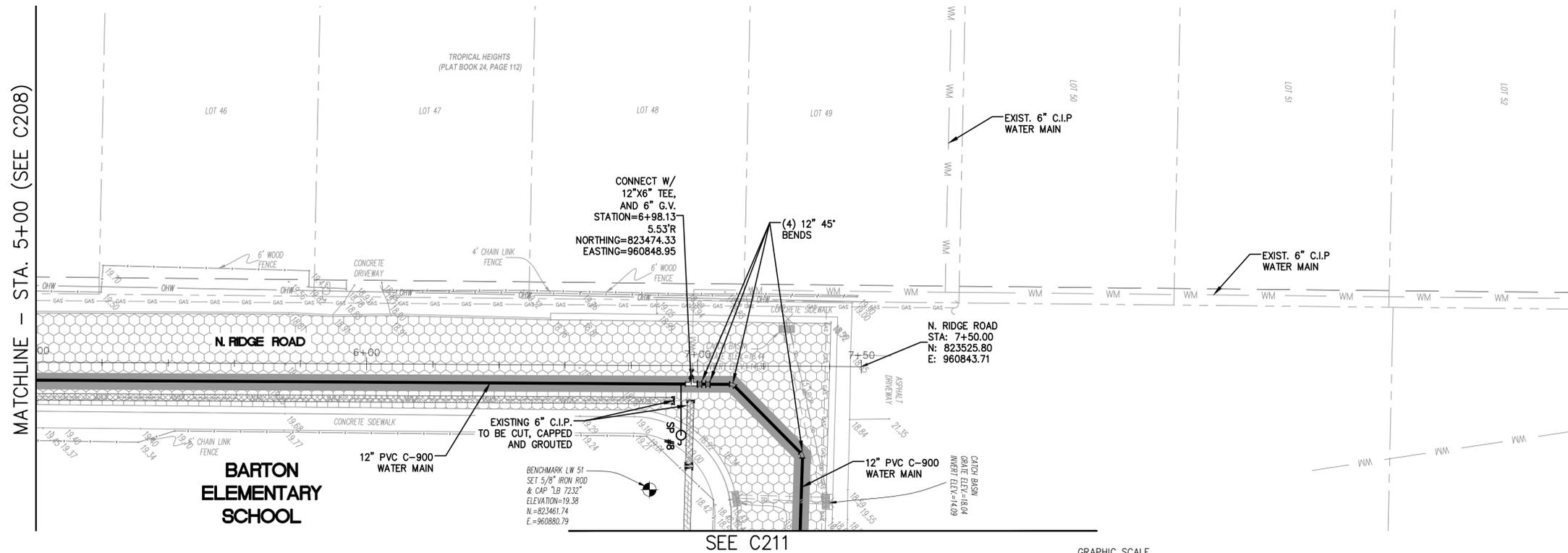
CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE (SOUTH ROAD) STA. 0+00 TO 3+64

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C209

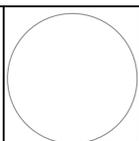
Z:\38619852 CIW\1-PROJECT\1-CAD\SET - Revision\PL01\C210.dwg - Thursday, April 07, 2016 4:25:03 PM



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2" OVERLAY)
 - MILL AND RESURFACE ROADWAY TYPE 2 (3/4" OVERLAY)
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.

- METER KEYNOTES:**
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URS
 7800 CONGRESS AVENUE, SUITE 200
 BOCA RATON, FLORIDA 33487-1350
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 FAX: (561) 994-6524
 CERT. OF AUTHORIZATION NO. 1213



DATE: _____
 ENGINEER OF RECORD:
 RALPH HAYDEN, PE
 FL. REG. NUMBER: 20844

#	Date	Revision Description



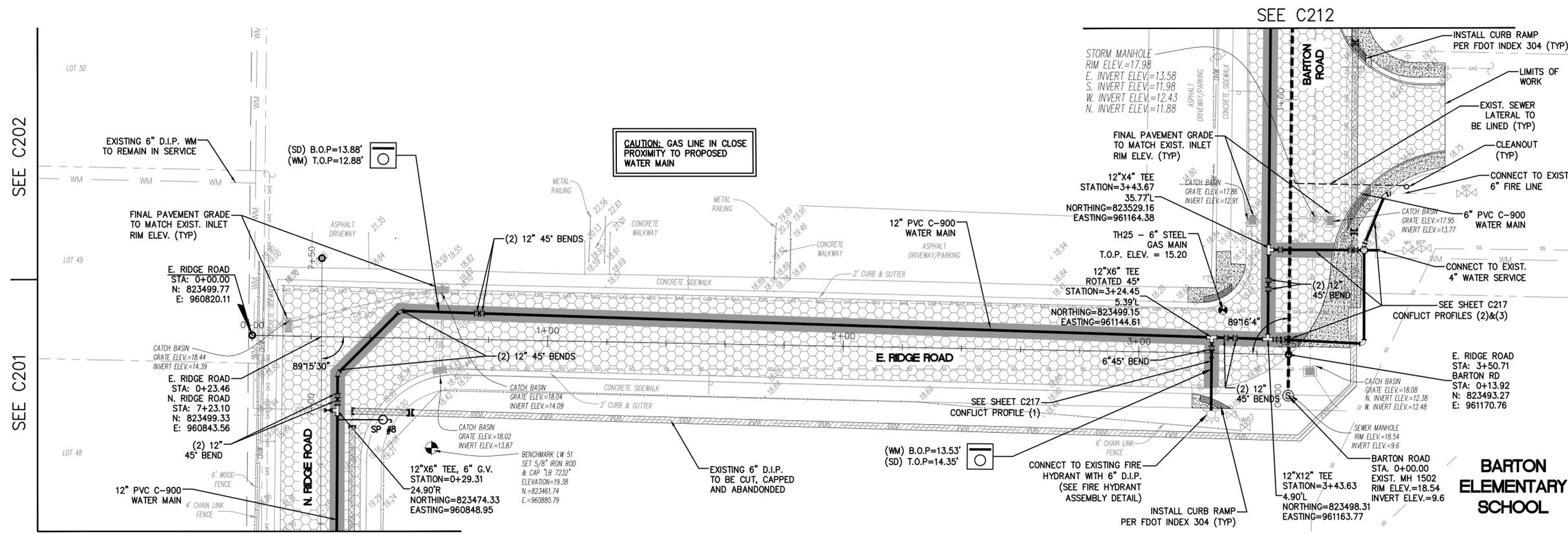
**CITY OF LAKE WORTH
 INFRASTRUCTURE IMPROVEMENTS
 PALM BEACH COUNTY, FLORIDA
 TROPICAL DRIVE & BARTON ROAD**

**PLAN AND PROFILE (N RIDGE
 ROAD) STA. 5+00 TO 7+50**

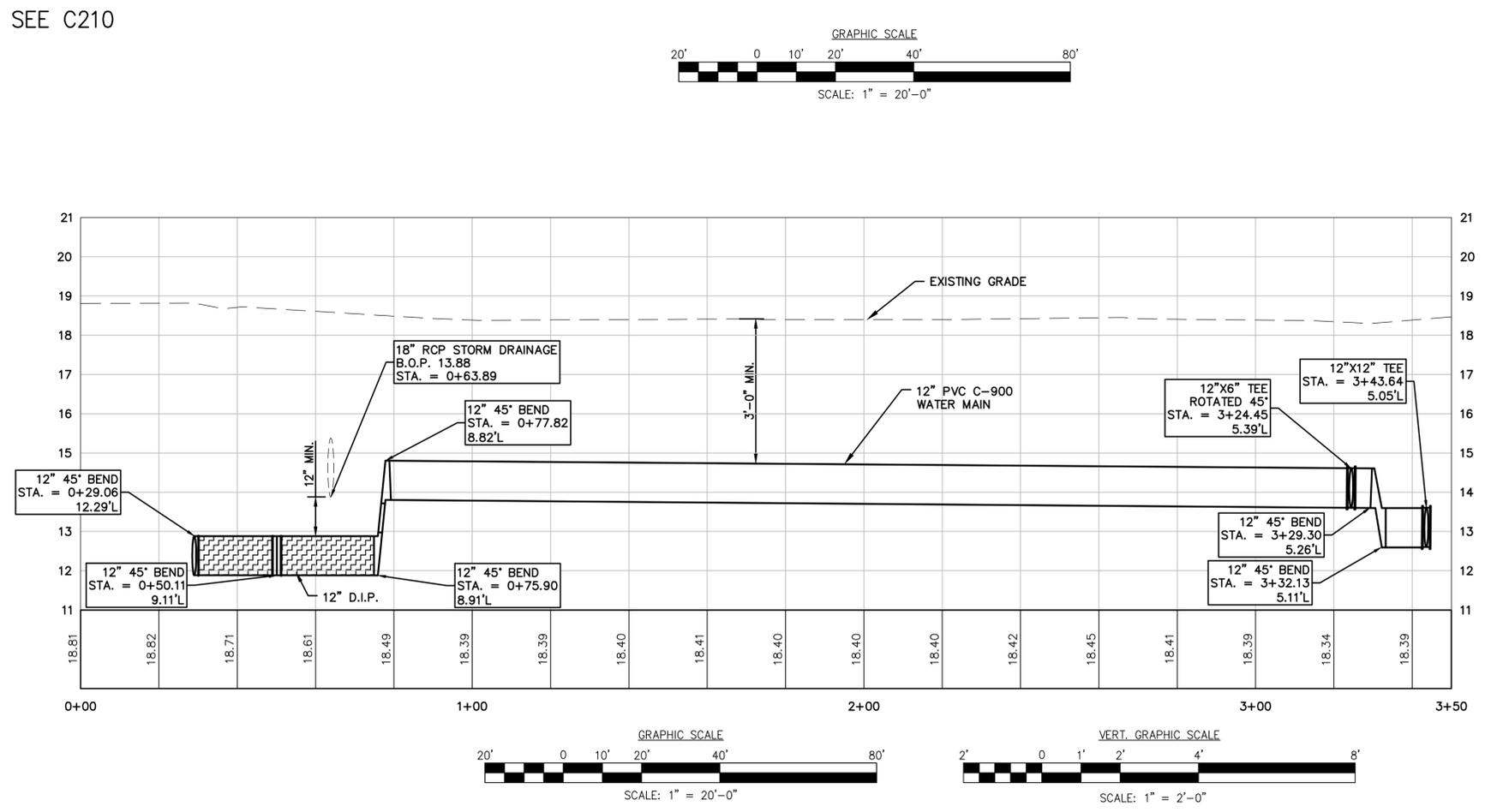
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C210

Z:\38619852 CIW\1-PROJECT\11-CAD\BID SET - Revision\PL01\C211.dwg - Thursday, April 07, 2016 4:25:57 PM



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
 - TEST HOLE
- SEWER**
- EXIST. VCP SEWER TO BE LINED
 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - SD EXIST. VCP SEWER TO BE LINED
- PAVING**
- DRIVEWAY/SIDEWALK TO BE REPLACED
 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2\"/>
- PROFILE**
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 FL. REG. NUMBER: 20844

#	Date	Revision Description



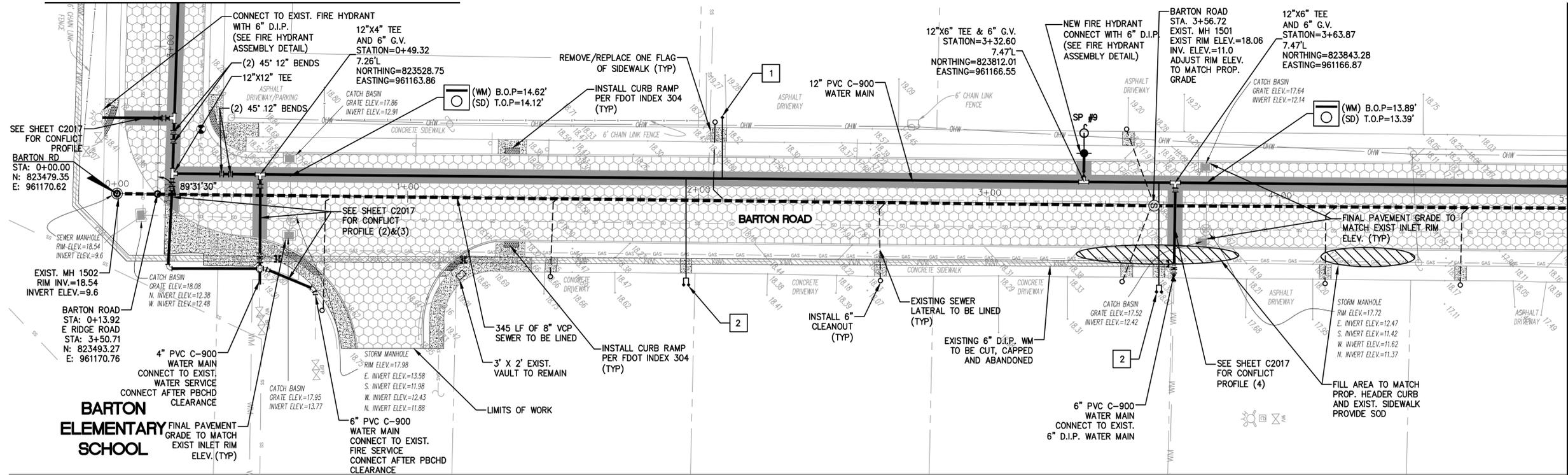
**CITY OF LAKE WORTH
 INFRASTRUCTURE IMPROVEMENTS
 PALM BEACH COUNTY, FLORIDA
 TROPICAL DRIVE & BARTON ROAD**

PLAN AND PROFILE (E RIDGE ROAD) STA. 0+00 TO 3+50

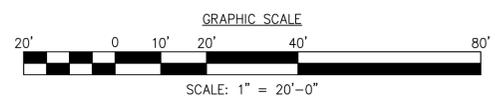
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C211

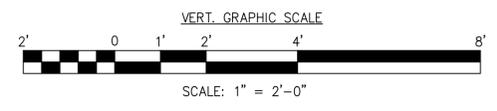
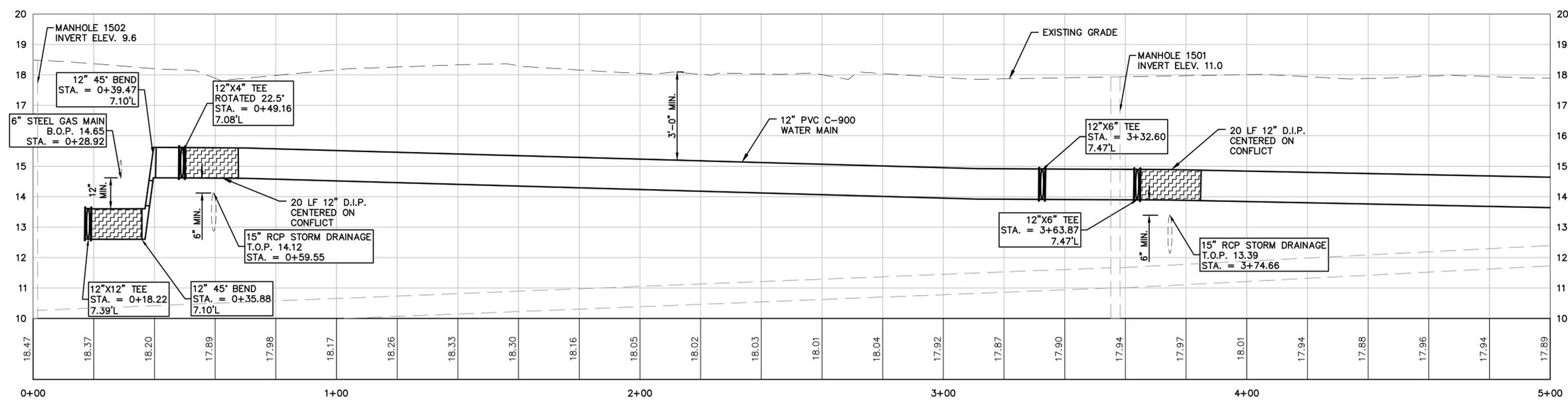
SEE C211



MATCHLINE - STA. 5+00 (SEE C214)



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
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 - TEST HOLE
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 - EXIST. SEWER MANHOLE
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 - ROADWAY AND CURB RECONSTRUCTION
 - MILL AND RESURFACE ROADWAY TYPE 1 (1-1/2\"/>
- PROFILE**
- D.I.P. WM COLOR CODED AS PER F.A.C. 62-555.320(21)(b)3.

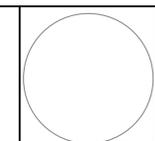


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BOCA RATON, FLORIDA 33487-1350
PHONE: (561) 994-6500
FAX: (561) 994-6524
CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision Description



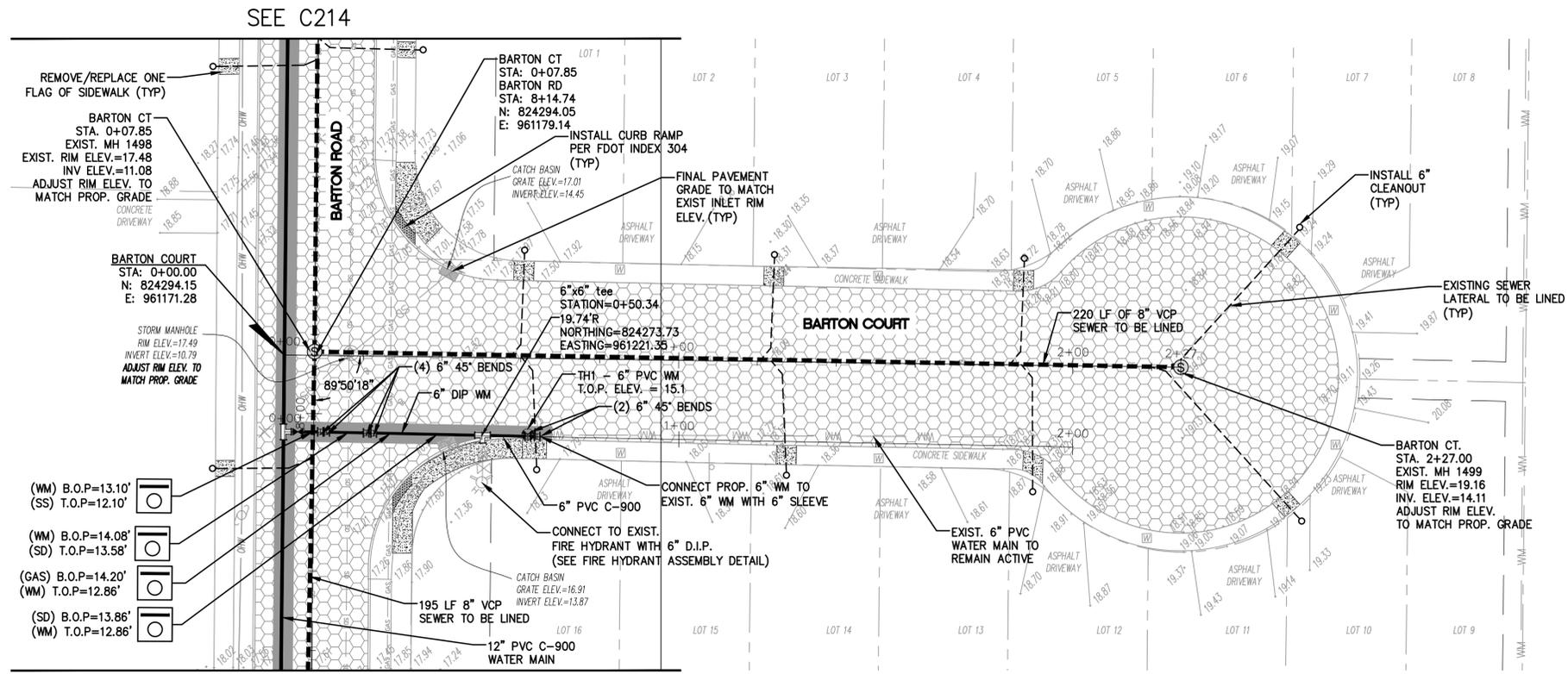
CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE (BARTON ROAD) STA. 0+00 TO 5+00

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

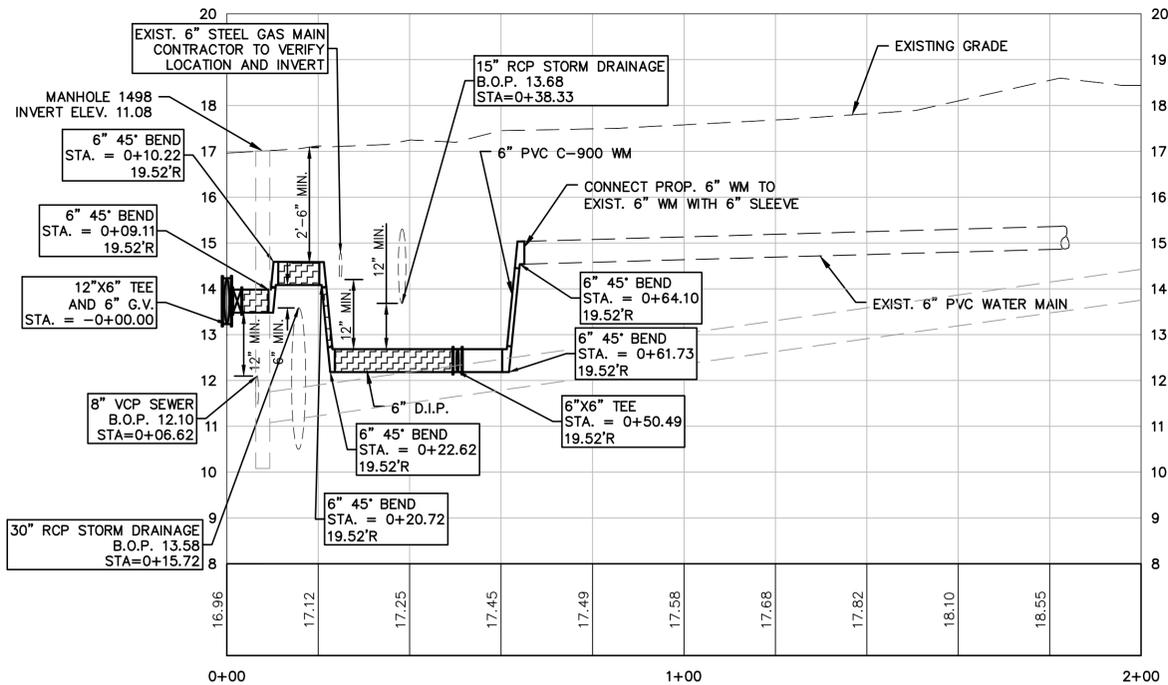
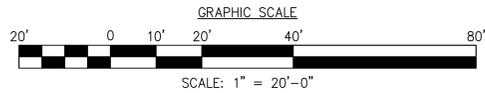
SHEET
C212

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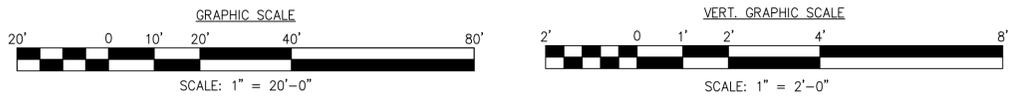


SEE C214

SEE C214



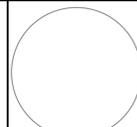
NOTES:
 1. CONTRACTOR TO USE CAUTION WHEN EXCAVATING THIS AREA.
 2. HAND EXCAVATE WHERE REQUIRED.



- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
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- SEWER**
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 - EXIST. VCP SEWER LATERAL TO BE LINED
 - EXIST. SEWER MANHOLE
 - EXIST. VCP SEWER TO BE LINED
- SEWER**
- EXIST. VCP SEWER TO BE LINED
- PAVING**
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DATE: _____
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 RALPH HAYDEN, PE
 FL. REG. NUMBER: 20844

#	Date	Revision	Description



CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE (BARTON COURT) STA. 0+00 TO 2+27

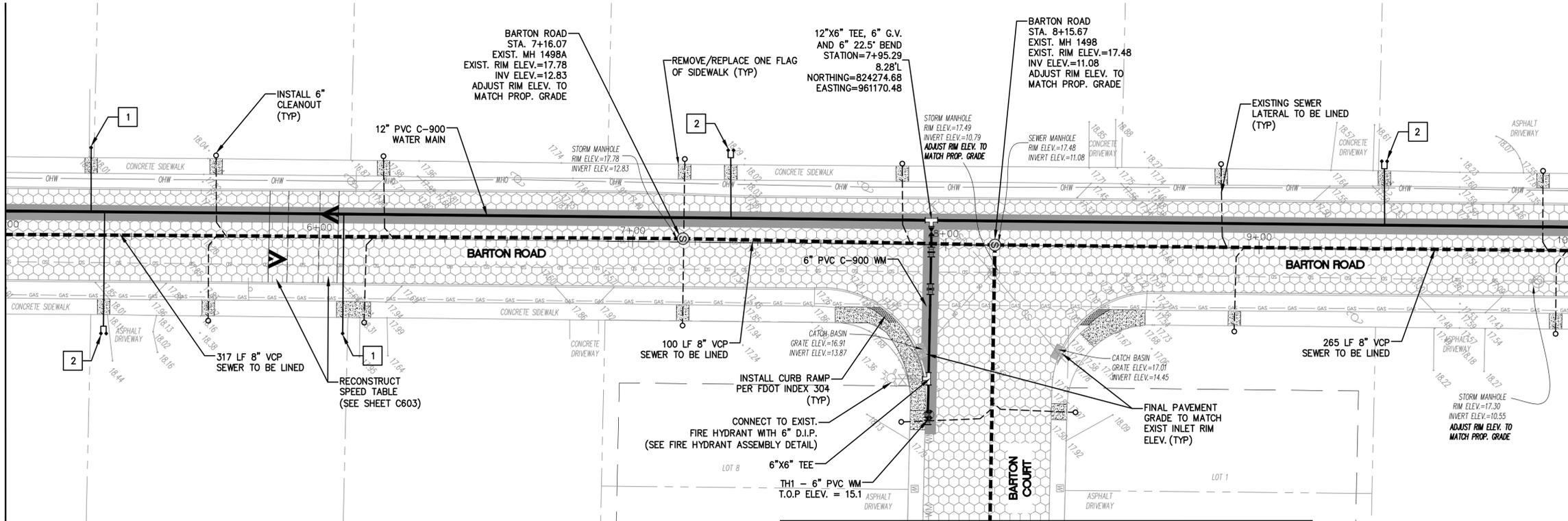
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C213

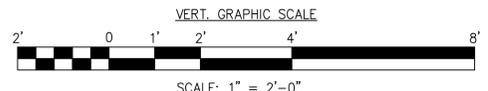
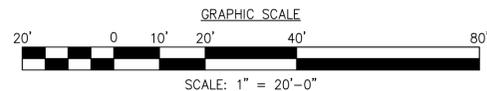
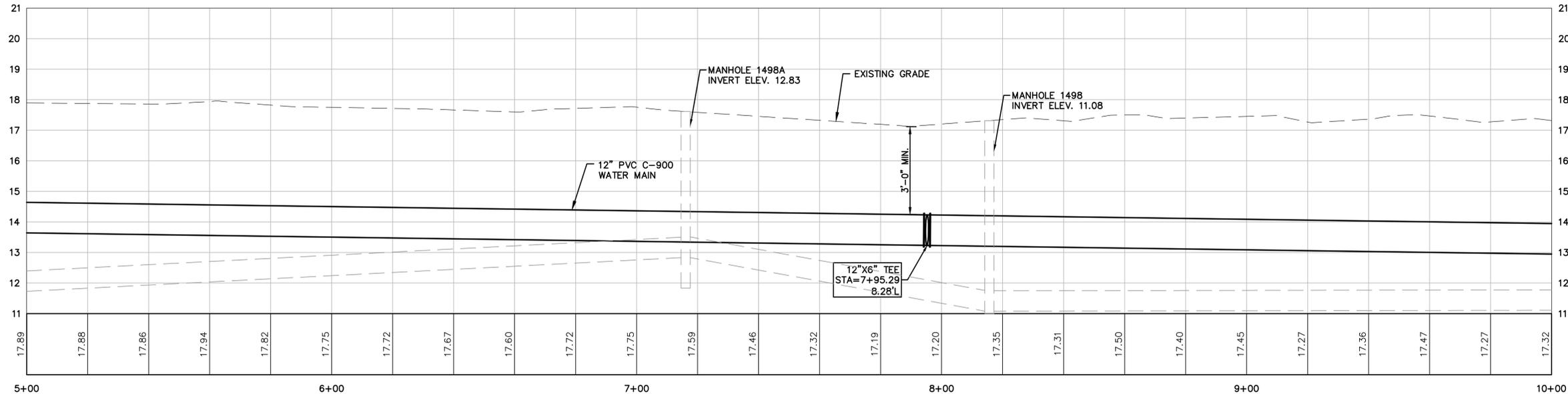
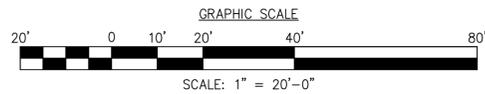


MATCHLINE - STA. 5+00 (SEE C212)

MATCHLINE - STA. 10+00 (SEE C215)



SEE C213



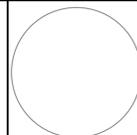
- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
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7800 CONGRESS AVENUE, SUITE 200
BOCA RATON, FLORIDA 33487-1350
PHONE: (561) 994-6500
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CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

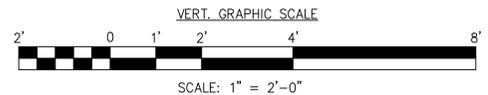
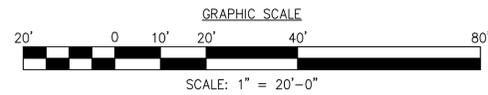
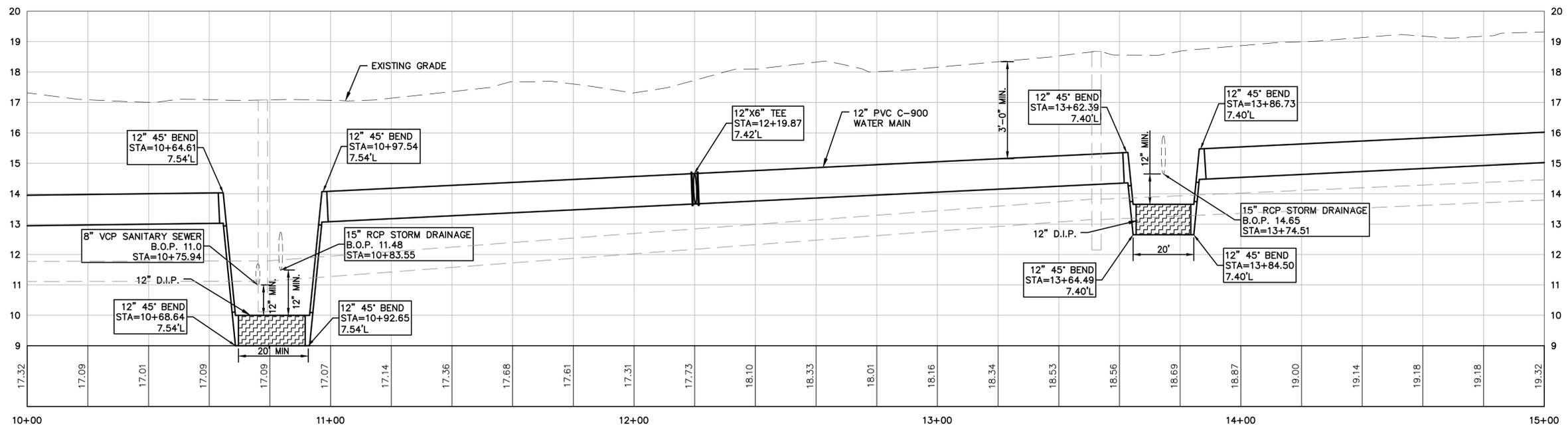
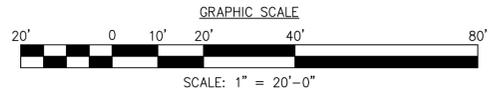
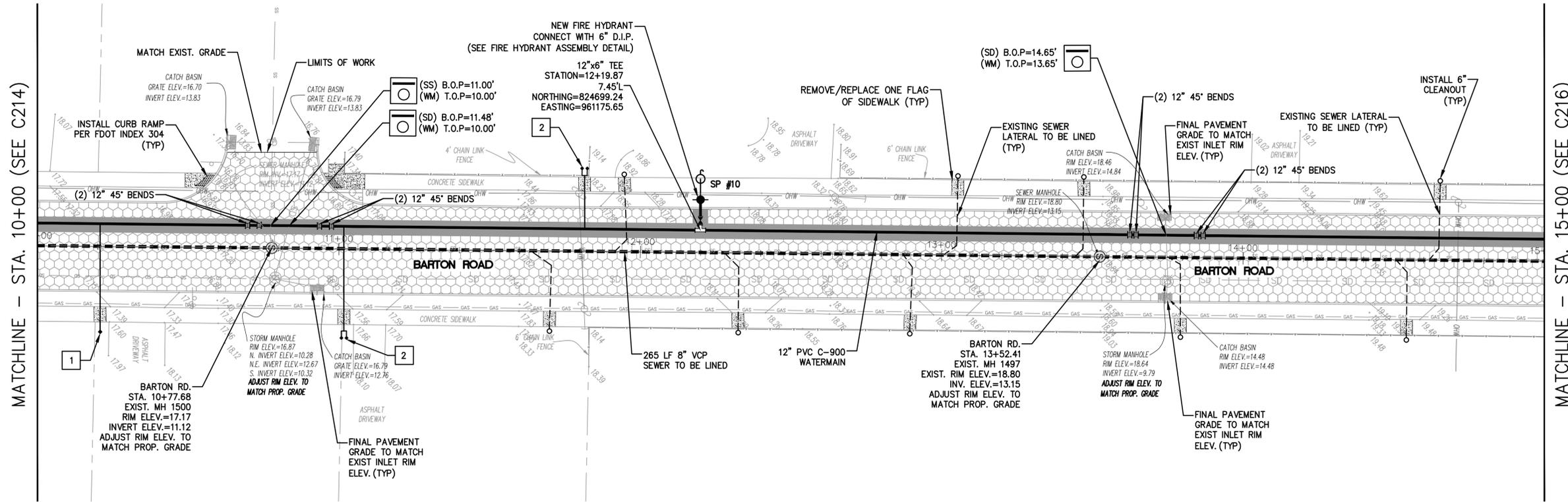
#	Date	Revision Description



CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE (BARTON ROAD) STA. 5+00 TO 10+00
DWN: MH DSN: WRB/MH
CHK: RH SCALE: AS SHOWN
APV: RH DATE: 04/07/2016

SHEET
C214

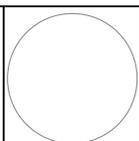


- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND ABANDONED
 - EXISTING WATER MAIN TO BE CUT, CAPPED AND GROUTED
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 7800 CONGRESS AVENUE, SUITE 200
 BOCA RATON, FLORIDA 33487-1350
 PHONE: (561) 994-6500
 FAX: (561) 994-6524
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 ENGINEER OF RECORD:
 RALPH HAYDEN, PE
 FL. REG. NUMBER: 20844

#	Date	Revision Description



**CITY OF LAKE WORTH
 INFRASTRUCTURE IMPROVEMENTS
 PALM BEACH COUNTY, FLORIDA
 TROPICAL DRIVE & BARTON ROAD**

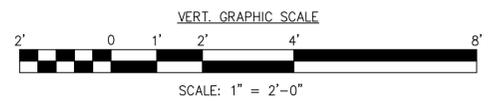
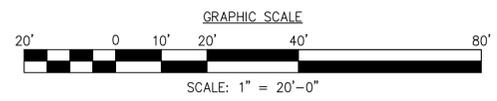
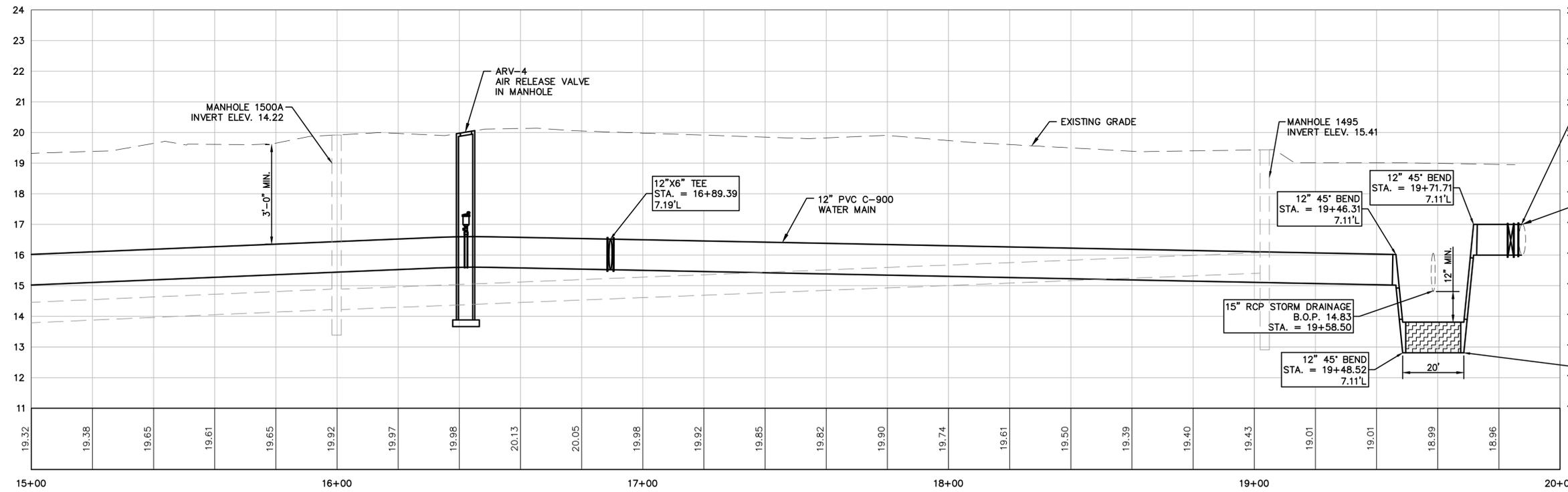
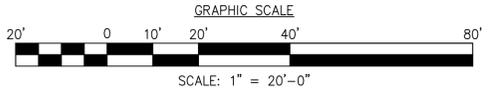
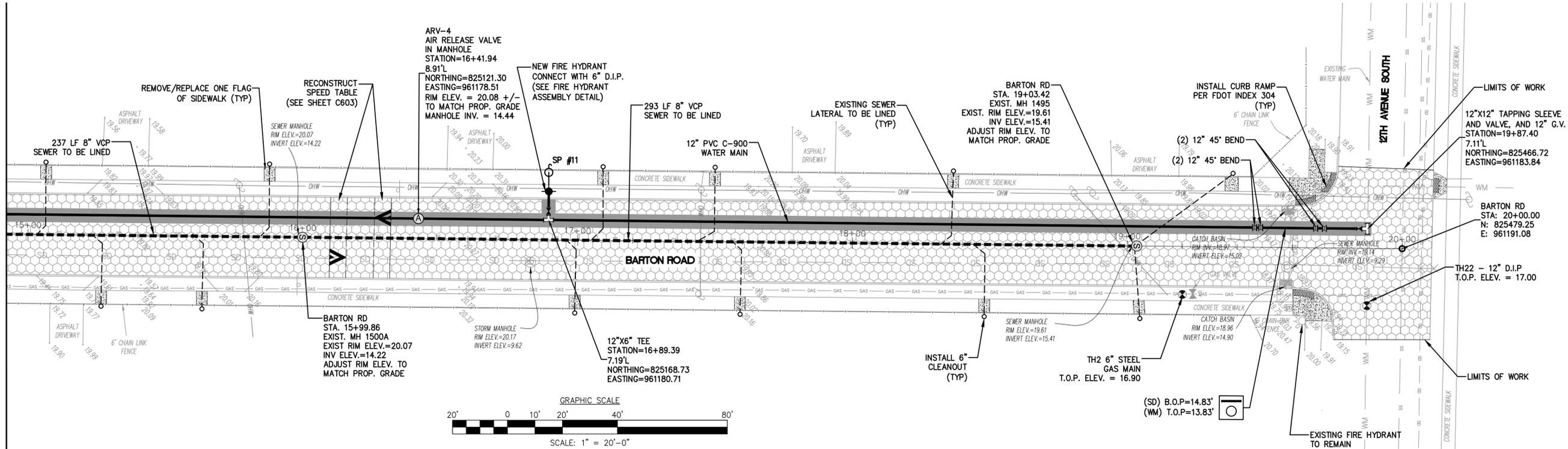
PLAN AND PROFILE (BARTON ROAD) STA. 10+00 TO 15+00

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C215



MATCHLINE - STA. 15+00 (SEE C215)



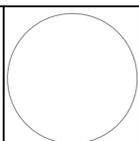
- LEGEND:**
- WATER**
- PROPOSED WATER MAIN
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- DRIVEWAY/SIDEWALK TO BE REPLACED
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- PROFILE**
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RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision	Description

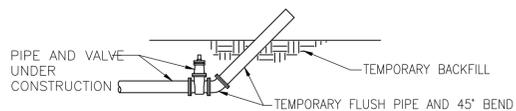


CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PLAN AND PROFILE (BARTON ROAD) STA. 15+00 TO 20+00

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

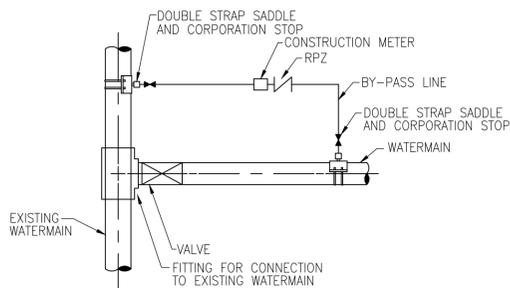
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C216



NOTES:

- UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE PIGGED. CANNON FLUSHING MAY BE USED IN ADDITION TO PIGGING ONLY WITH THE APPROVAL OF THE ENGINEER. CANNON FLUSHING SHALL ACHIEVE A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE, FITTINGS, ETC.
- INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLECT PROPERTY DAMAGE.
- BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
- PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE ENGINEER OF SUCH INTENDED WATER USE.
- NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED UTILITY PERSONNEL.
- PIGGING AND FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE ENGINEER.
- AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY PIGGED AND FLUSHED, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.

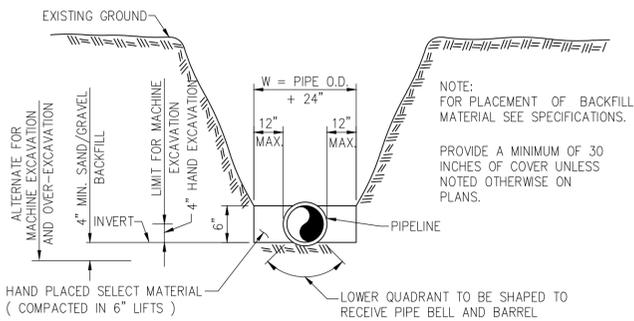
PIGGING AND CANNON FLUSHING



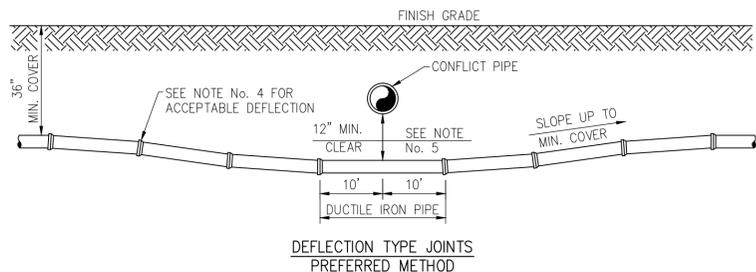
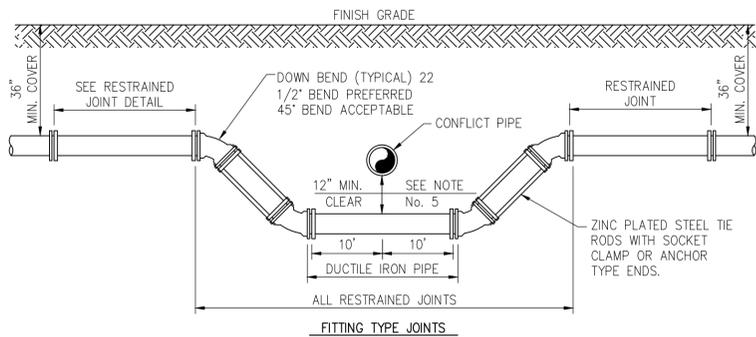
NOTES:

- PERFORM PRESSURE AND LEAKAGE TEST ON TAPPING SLEEVE AND TAPPING VALVE (WHEN USED) PRIOR TO MAKING TAP.
- ALL WATER FOR FLUSHING, PRESSURE AND LEAKAGE TESTS, AND BACTERIOLOGICAL CLEARANCE MUST BE FROM THE "BY-PASS" LINE WITH CHECK VALVE IN PLACE.
- DURING ALL PRESSURE AND LEAKAGE TESTS, BOTH CORPORATION STOPS ON THE "BY-PASS" LINE MUST BE CLOSED.
- THE UTILITY COMPANY SUPPLYING THE WATER SHALL BE NOTIFIED BEFORE FILLING AND FLUSHING. ONLY THE UTILITY COMPANY SHALL OPERATE THE VALVES.
- DOUBLE STRAP SADDLES ARE NOT REQUIRED WHEN CONNECTING TO DUCTILE IRON PIPE.
- CONNECT PRESSURE TEST PUMP TO SERVICE LINE OR BLOWOFF. NO EXTRA TAPS ARE PERMITTED UNLESS NEITHER A SERVICE LINE OR BLOWOFF ARE PRESENT IN THE TEST SECTION.
- WATERMAIN VALVES CANNOT BE OPENED UNTIL THE ENTIRE SYSTEM HAS BEEN CLEARED BY THE GOVERNING PERMITTING AGENCY.
- REMOVE THE "BY-PASS" LINE AFTER THE MAIN HAS BEEN CLEARED. PLUG CORPORATION STOP WITH THREADED BRASS PLUG.
- INSTALL ADJUSTABLE CAST IRON VALVE BOX ON THE VALVE.

VALVE CONNECTION



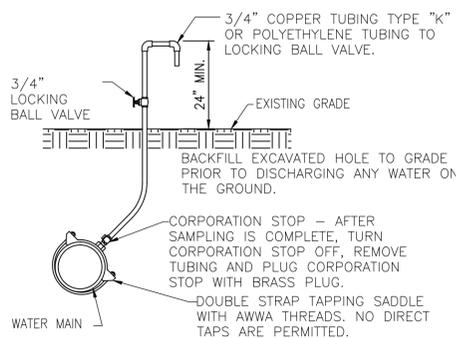
TRENCHING



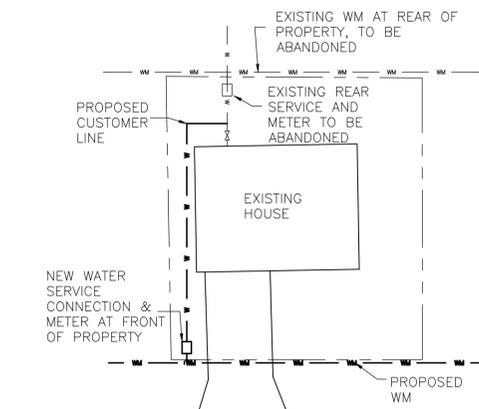
NOTES:

- 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.

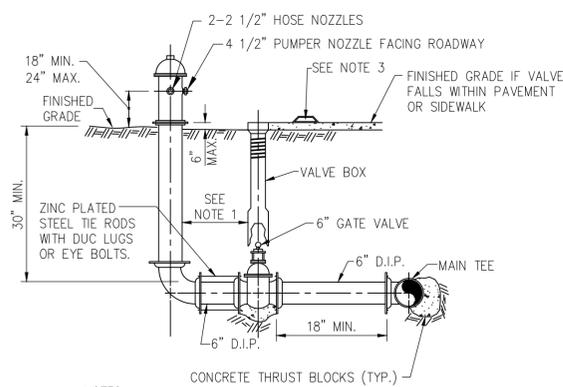
PRESSURE PIPE CONFLICT



SAMPLING POINT



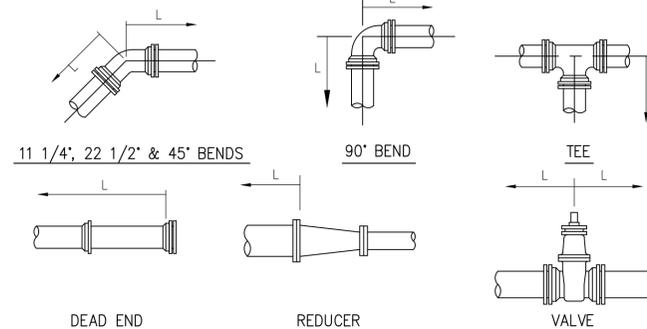
TYPICAL WATER SERVICE TRANSFER FROM REAR TO FRONT



NOTES:

- ON RUNS LONGER THAN 60' ANOTHER VALVE IS REQUIRED.
- MEGALUGS REQUIRED ON ALL JOINTS.
- INSTALL SINGLE BLUE/BLUE REFLECTIVE PAVEMENT MARKER (RPM) IN CENTER OF TRAVEL LANE CLOSEST AND PERPENDICULAR TO THE FIRE HYDRANT.

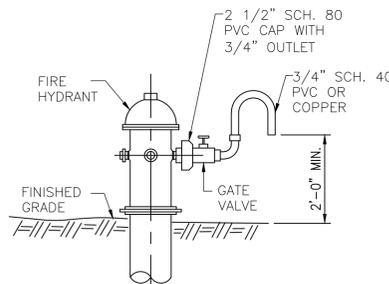
FIRE HYDRANT ASSEMBLY



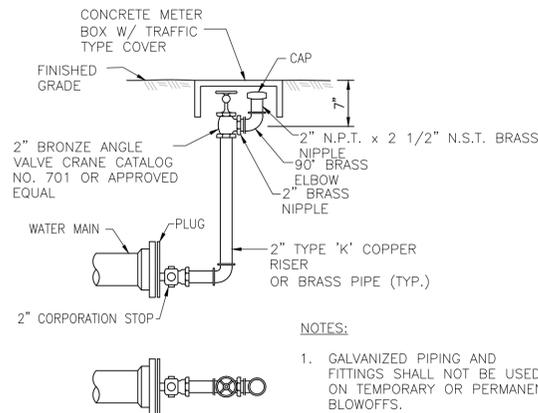
NOTES:

- LENGTH 'L' IS IN FEET.
- RESTRAINED LENGTHS ARE BASED ON THE FOLLOWING:
 - A. 150 PSI TEST PRESSURE
 - B. MIN. 30" COVER.
 - C. PVC - PIPE SIZES 4" - 12". DI - PIPE SIZES 4" - 48".
 - D. SANDY SOIL.
 - E. SAFETY FACTOR OF 1.5.
- LENGTH 'L' SHOWN IN THE TABLE TO BE RESTRAINED IN THE DIRECTION OF THE ARROWS.

RESTRAINED PIPE JOINT



SAMPLE POINT ON FIRE HYDRANT



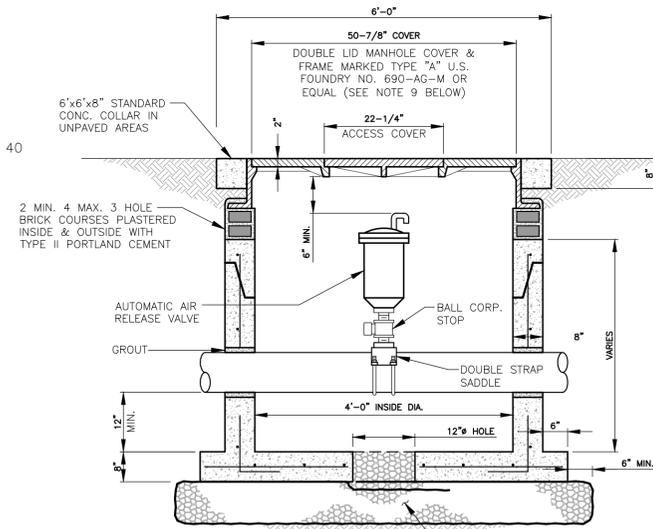
NOTES:

- GALVANIZED PIPING AND FITTINGS SHALL NOT BE USED ON TEMPORARY OR PERMANENT BLOWOFFS.
- MEGALUG RESTRAINED JOINTS REQUIRED ON WATERMAIN.

2" TERMINAL BLOWOFF

FITTING TYPE	PIPE SIZE															
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"		
90° HORIZ. BEND	17	22	27	32	37	42	47	52	57	62	67	72	77	82	87	
45° HORIZ. BEND	8	10	13	15	18	16	18	20	22	25	29	33	37	40		
22.5° HORIZ. BEND	3	3	4	4	5	5	6	6	7	8	8	9	10	10	11	
11.25° HORIZ. BEND	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
45° VERT. OFFSET	19	27	35	42	50	36	40	44	48	55	67	77	86	95		
22.5° VERT. OFFSET	9	6	8	11	13	11	12	14	15	17	19	23	26	29	32	
11.25° VERT. OFFSET	5	3	4	5	6	5	6	7	8	9	11	13	14	15	16	
DEAD END AND INLINE VALVE	46	65	85	105	125	86	97	107	117	136	162	186	208	229		
TEE (BRANCH RESTRAINT)	4"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
REDUCER (LARGER PIPE RESTRAINT)	4"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	10"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	16"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	18"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	20"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	24"x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

MECHANICAL THRUST RESTRAINT - MINIMUM PIPE LENGTHS

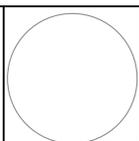


NOTES:

- PRECAST CONCRETE TYPE # 4000 P.S.I.
- ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
- LIFT HOLES ARE PERMITTED.
- ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED.
- MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH A.S.T.M. C-478 LATEST STANDARD.
- MANHOLE EXTERIOR PROTECTION SHALL CONSIST OF THE USE OF CARBOLINE (KOPPERS) BITUMASTIC 300M (OR APPROVED EQUAL). THE FIRST COAT IN THE COLOR GRAY OR RED & THE SECOND COAT BEING THE COLOR BLACK.
- CONCRETE COLLAR REQUIRED WHEN MANHOLE IS OUTSIDE PAVEMENT, SEE NOTATION ABOVE.
- AIR RELEASE VALVE SHALL BE A.R.I. MODEL SAAR D-020 W/ ONE WAY AIR VALVE CHECK.
- AIR RELEASE VALVE AND PIPING TO BE IDENTIFIED AS "POTABLE WATER ARV" AND O/C STAMPED ON THE LID.
- DUCTILE IRON PIPE IS REQUIRED THROUGH THE VAULT.
- THREADED AREAS OF CORPORATION STOP SHALL BE SPIRAL WRAP WITH TWO WRAPS OF TEFLON TAPE.
- STANDARD DESIGN FOR ALL EASEMENT AREAS & RIGHT-OF-WAY.

WATER MAIN AIR RELEASE VALVE AND MANHOLE

URS
 7800 CONGRESS AVENUE, SUITE 200
 BOCA RATON, FLORIDA 33487-1350
 PHONE: (561) 994-6500
 FAX: (561) 994-6524
 CERT. OF AUTHORIZATION NO. 1213



DATE: _____
 ENGINEER OF RECORD:
 RALPH HAYDEN, PE
 FL. REG. NUMBER: 20844

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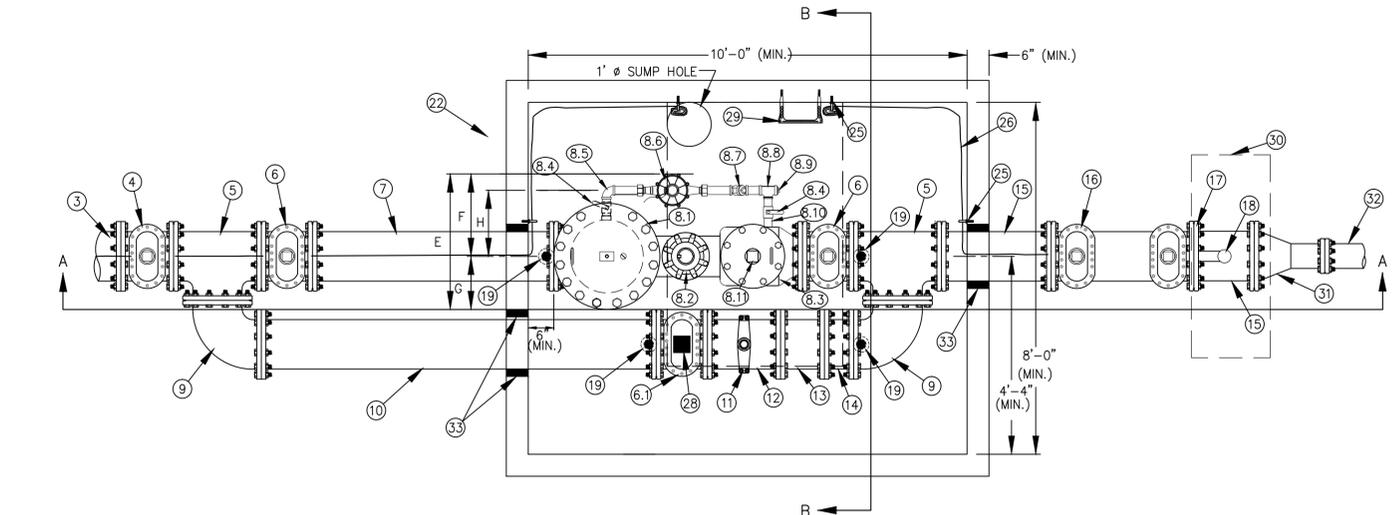
CITY OF LAKE WORTH
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WATER DISTRIBUTION DETAILS	
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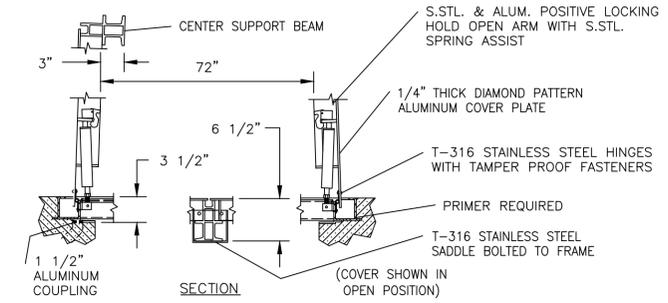
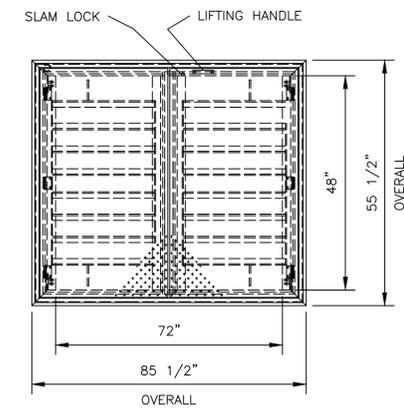
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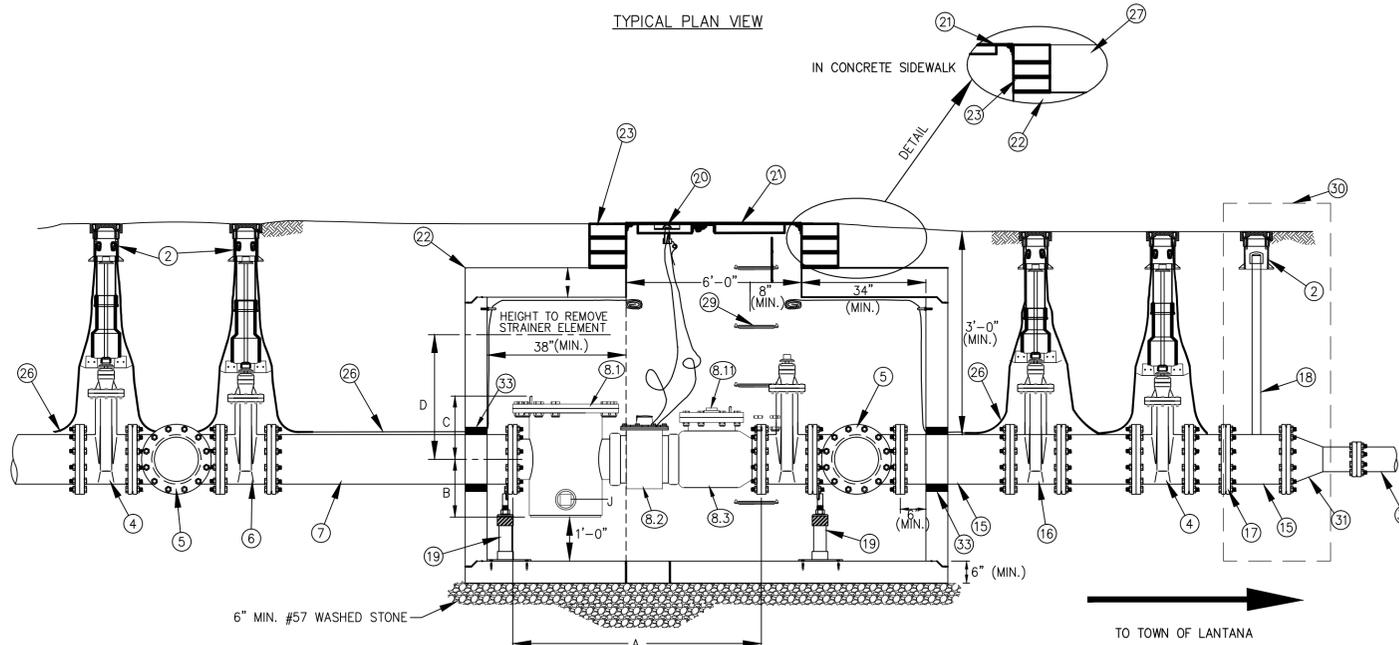


TYPICAL PLAN VIEW

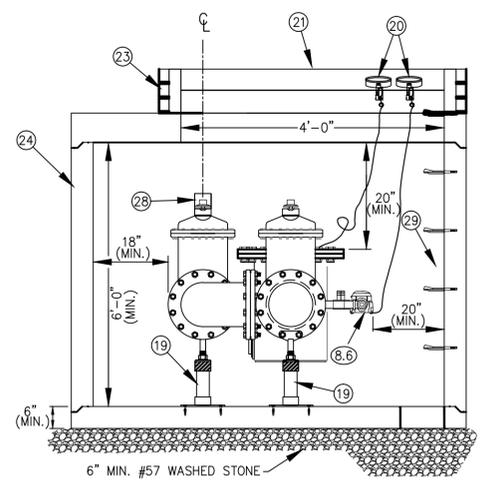


NOTES:
 A. SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC.
 B. PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.

4' x 6' ACCESS DOOR DETAIL
N.T.S



ELEVATION VIEW (A-A)



SECTION VIEW (B-B)

- NOTES:
- A. ALL FLANGE HARDWARE (BOLT/WASHER/NUT) SHALL BE STAINLESS STEEL - TYPE 304 WITH ANTI-SEIZE COMPOUND.
 - B. ALL PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON FROM TAP TO PROPERTY LINE VALVE.
 - C. METER CONFIGURATION AND LENGTH / WIDTH MAY VARY DUE TO BRAND - VERIFY DIMENSIONS TO DETERMINE MINIMUM VAULT SIZE.
 - D. VAULT SHALL BE SIZED AS NEEDED FOR MINIMUM CLEARANCE AS SHOWN AND RATED FOR FDOT HS-20 LOADING - SUBMIT SHOP DRAWINGS / P.E. SEALED FOR REVIEW.
 - E. ALL CONCRETE SHALL BE MINIMUM 4000 PSI COMPRESSIVE STRENGTH.
 - F. DESIGN SHALL CONFORM TO ASTM C858 - SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE"
 - G. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C857
 - H. REBARS SHALL BE GRADE 60 PER ASTM A615
 - I. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185
 - J. DIAGONAL REINFORCING SHALL BE ADDED AT ALL OPENINGS
 - K. PIPE PENETRATIONS SHALL BE SEALED WITH FLEXIBLE CONNECTORS (MANHOLE BOOTS)
 - L. FRAME TO BE FLUSH WITH GROUND OR CONCRETE SIDEWALK, GROUND SHALL SLOPE AWAY FROM VAULT.
 - M. ALL JOINTS SHALL BE MADE WATERTIGHT USING 2 RINGS OF BUTYL RUBBER JOINT MASTIC.
 - N. ALL VALVES SHALL BE OPEN RIGHT - CLOCKWISE, EXCEPT NO. 16

DIMENSION B - H VARY SLIGHTLY - AS DETERMINED BY MANUFACTURER.

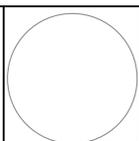
METER SIZE	A	B	C	D	E	F	G	H	J
12"	68"	15 3/4"	17 1/4"	34 1/16"	36 1/4"	22 1/2"	13 3/4"	18"	3"

12" WATER METER IN CONCRETE VAULT
N.T.S

- No. DESCRIPTION
- 1 12" OUTLET TAPPING SLEEVE AND 12" FL x MJ TAPPING VALVE ON EXISTING MAIN. 12" MECHANICAL JOINT OUTLET TEE AND 10" MJ GATE VALVE ON NEW MAIN
 - 2 STANDARD VALVE BOX ASSEMBLY (TYPICAL) - ALL VALVES
 - 3 12" DUCTILE IRON PIPE - RESTRAINED
 - 4 12" MJ x FL DUCTILE IRON ADAPTER ON SHORT SIDE SERVICE (NOT SHOWN), 12" MJ x FL GATE VALVE ON LONG SIDE SERVICE (SHOWN)
 - 5 12" x 6" ALL FLANGE DUCTILE IRON TEE
 - 6 12" ALL FLANGE GATE VALVE
 - 6.1 6" ALL FLANGE GATE VALVE
 - 7 12" ALL FLANGE DUCTILE IRON PIPE SPOOL - L = 66" (MIN.) (SPECIAL CLASS 53)
 - 8 12" FMCT METER ASSEMBLY (FLANGE x FLANGE)
 - 8.1 STRAINER
 - 8.2 METER WITH AMR / TRANSMITTER
 - 8.3 CHECK VALVE
 - 8.4 2" BRASS BALL VALVE WITH HANDLE (FNPT x FNPT)
 - 8.5 2" BRASS 90° BEND (FNPT x FNPT)
 - 8.6 2" METER (2 BOLT METER FL - EACH END) WITH AMR / TRANSMITTER
 - 8.7 2" BRONZE CHECK VALVE (FNPT x FNPT)
 - 8.8 2" BRONZE TEE (FNPT x FNPT x FNPT)
 - 8.9 2" SQUARE HEAD BRONZE PLUG (MNPT)
 - 8.10 2" RED BRASS PIPE NIPPLES (TYP - AS REQ'D) - (MNPT x MNPT)
 - 8.11 3" (MIN.) SQUARE HEAD BRASS PLUG (MNPT)
 - 9 6" DUCTILE IRON 90° BEND FLANGE x FLANGE
 - 10 6" DUCTILE IRON PIPE - FLANGE x FLANGE SPOOL - L = 108" (MIN.) (SPECIAL CLASS 53)
 - 11 6" x 1 1/2" SERVICE SADDLE WITH 1 1/2" BALL CORPORATION STOP - CC - TAPER THREAD
 - 12 6" DUCTILE IRON PIPE - FLANGE x PE - L = 26" (MIN.) (SPECIAL CLASS 53)
 - 13 6" MECHANICAL JOINT DUCTILE IRON LONG PATTERN SOLID SLEEVE WITH RESTRAINED JOINT
 - 14 6" DUCTILE IRON PIPE - FLANGE x PE - L = 14" (MIN.) (SPECIAL CLASS 53)
 - 15 12" DUCTILE IRON PIPE - FLANGE x PE - L = 30" (MIN.) (SPECIAL CLASS 53)
 - 16 12" MECHANICAL JOINT (RJ) GATE VALVE - OPEN LEFT AT PROPERTY LINE
 - 17 12" MECHANICAL JOINT PLUG WITH 2" TAP (FNPT)
 - 18 2" TEMPORARY BLOW OFF ASSEMBLY (GALV. STEEL (SCH 80), RED BRASS (SCH 40), HDPE (DR9) OR DIP - END WITH THREADED COUPLING)
 - 19 S.S. ADJUSTABLE FLANGE PIPE SUPPORT (NUMBER REQ'D = 4) (WITH STAINLESS STEEL ADHESIVE ANCHORS)
 - 20 AMR TRANSMITTERS (ERT)
 - 21 4 FT x 6 FT ACCESS DOOR - HALLIDAY HATCH M0# H2W7248
 - 22 PRECAST REINFORCED CONCRETE VAULT - 8 FT x 10 FT x 6 FT (MIN.) SEE NOTES C AND D.
 - 23 MINIMUM OF (3) STD. SOLID CONCRETE BRICK COURSES UNDER ACCESS DOOR FRAME - MAX. 2 FT.
 - 24 JOINT REQUIRED AT FLAT TOP SECTION
 - 25 3/8" DIA. GALV. STEEL EYE BOLT (EPOXY ADHESIVE ANCHOR) - TYPICAL
 - 26 AWG #12 GAUGE COPPER TRACER WIRE (THWN) - WITH BLUE INSULATION-TERMINATE WITH 24" EXCESS WIRE (COILED) AT EYE BOLT AND VALVE BOX (TYPICAL)
 - 27 CAST IN PLACE CONCRETE SIDEWALK - BRICKWORK SHALL NOT EXTEND TO SURFACE. ACCESS DOOR FRAME SHALL REST ON SIDEWALK.
 - 28 VALVE LOCK (FURNISHED BY CLOW) - LOCK VALVE CLOSED.
 - 29 S.S. - 12" OR 16" O.C. VERTICAL SPACING.
 - 30 UPON COMPLETION OF BACTERIOLOGICAL TESTING AND PRESSURE TESTING OF SYSTEM, REMOVE PLUG AND CONNECT TO EXISTING 6" D.I.P. WATER MAIN CONNECTION TO THE TOWN OF LANTANA.
 - 31 12" x 6" REDUCER
 - 32 6" DIP TOWN OF LANTANA WATERMAIN
 - 33 MECHANICAL LINK-SEAL WITH EPDM ELASTOMERIC SEAL ELEMENT LINK SEAL OR APPROVED EQUAL. PROVIDE NON SHRINK GROUT.



7800 CONGRESS AVENUE, SUITE 200
 BOCA RATON, FLORIDA 33487-1350
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 FAX: (561) 994-6524
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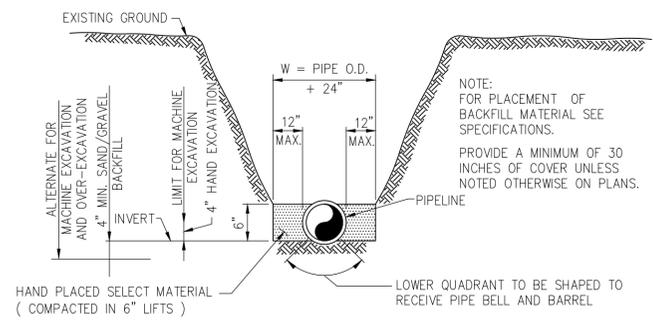


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 INFRASTRUCTURE IMPROVEMENTS
 PALM BEACH COUNTY, FLORIDA
 TROPICAL DRIVE & BARTON ROAD

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TRENCHING

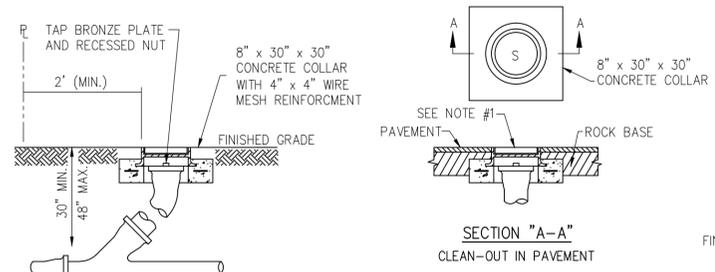
HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATERMANS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

- NEW OR RELOCATED UNDERGROUND WATERMANS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATERMAN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED SEWER, STORMWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 2-610, 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 WATERMAN 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 WATERMAN 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 WATERMAN 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 64C-6.002, F.A.C.

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

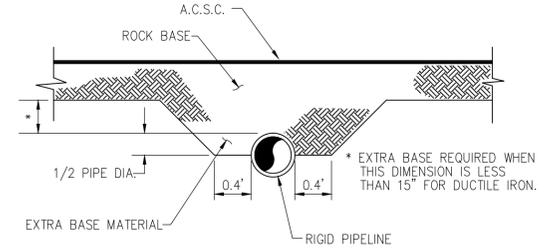
- NEW OR RELOCATED UNDERGROUND WATERMANS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAN IS AT LEAST SIX INCHES, AND PREFERABLY TWELVE INCHES ABOVE, OR AT LEAST TWELVE INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, 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 WATERMAN 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.

WATER AND SEWER SEPARATION CRITERIA

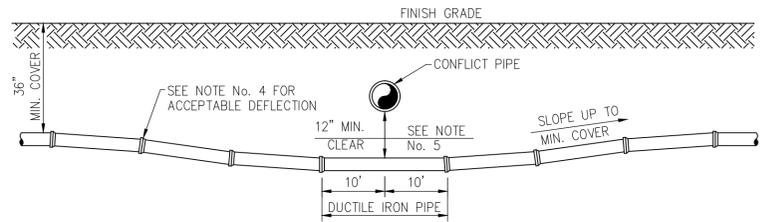
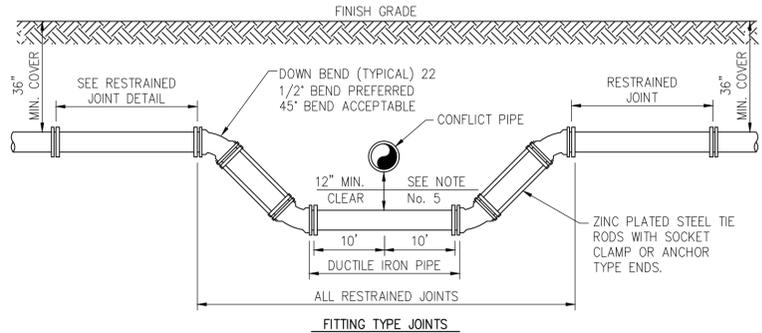


- NOTES:
- U.S. FOUNDRY NO. 7621 REVERSIBLE HANDHOLE RING AND COVER OR APPROVED EQUAL SHALL BE USED. COVER TO BE CAST WITH "S" IN THE CENTER.
 - CLEAN OUT REQUIRED ON ALL SERVICES AT PROPERTY LINE.
 - STANDARD WYE SHALL BE USED AT CLEAN OUT.
 - ALL PIPE AND CLENOUT SHALL BE 6" MIN.
 - CLEAN OUT FITTING TYPE MATERIAL SHALL BE SDR 26.

CLEAN OUT

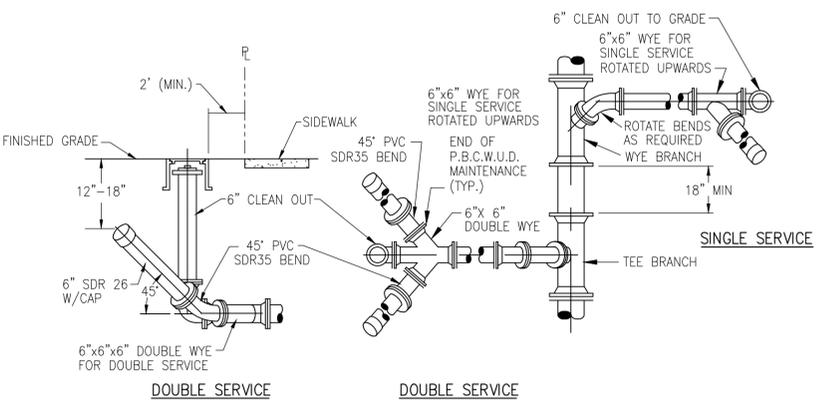


EXTRA BASE MATERIALS FOR SHALLOW PIPES IN ROADWAYS

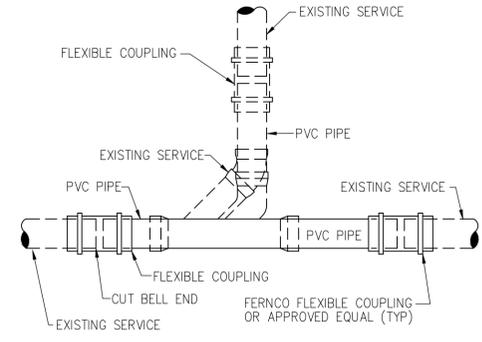


- NOTES:
- THERE SHALL BE, IN ALL CASES, A MINIMUM OF 12" SEPARATION BETWEEN WATER MAINS AND FORCE MAINS.
 - WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
 - FITTINGS SHALL BE RESTRAINED WITH MEGALUGS AND TIE RODS BETWEEN OFFSET FITTINGS. THRUST BLOCKS SHALL ONLY BE USED 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.

PRESSURE PIPE CONFLICT



TYPICAL WASTEWATER SERVICE CONNECTION



PIPE SECTION REPLACEMENT



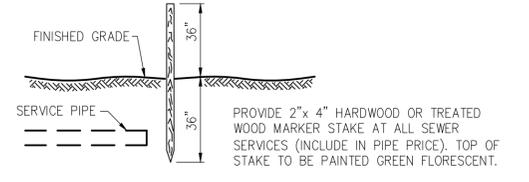
11 1/4"; 22 1/2" & 45" BENDS



REDUCER

- NOTES:
- LENGTH 'L' IS IN FEET.
 - RESTRAINED LENGTHS ARE BASED ON THE FOLLOWING:
 - 150 PSI TEST PRESSURE
 - MIN. 30" COVER.
 - PVC - PIPE SIZES 4" - 12", DI - PIPE SIZES 4" - 48".
 - SAFETY FACTOR OF 1.5.
 - LENGTH 'L' SHOWN IN THE TABLE TO BE RESTRAINED IN THE DIRECTION OF THE ARROWS.

RESTRAINED PIPE JOINT



MARKER STAKE

FITTING TYPE	PIPE SIZE																			
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"						
90° HORIZ. BEND	17	14	24	31	26	36	42	35	40	44	49	53	61	71	80	89	96			
45° HORIZ. BEND	7	6	10	6	13	11	15	12	18	16	18	20	22	25	29	33	37	40		
22.5° HORIZ. BEND	3	3	5	4	6	5	6	6	8	9	10	10	12	14	16	18	19			
11.25° HORIZ. BEND	2	1	2	2	3	3	3	3	4	4	4	5	5	6	7	8	9	10		
45° VERT. OFFSET	UPPER BEND	19	12	27	17	35	22	42	27	50	32	36	40	44	48	55	67	77	86	95
	LOWER BEND	5	4	7	6	9	8	11	9	13	11	12	14	15	17	19	23	26	29	32
22.5° VERT. OFFSET	UPPER BEND	9	6	13	8	17	11	20	13	24	15	17	19	21	23	27	32	37	41	46
	LOWER BEND	2	2	3	3	4	4	5	4	6	5	6	7	7	8	9	11	13	14	15
11.25° VERT. OFFSET	UPPER BEND	5	3	6	4	8	5	10	6	12	7	9	10	11	12	13	16	18	21	23
	LOWER BEND	1	1	2	2	2	2	3	2	3	3	3	3	4	4	5	5	6	7	8
DEAD END AND INLINE VALVE	46	30	65	42	85	54	102	65	120	76	86	97	107	117	136	162	186	208	229	
TEE (BRANCH RESTRAINT)	4" x	21	13	8	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6" x	39	25	30	19	20	15	10	7	1	1	1	1	1	1	1	1	1	1	1
	8" x	59	37	51	32	44	28	23	17	12	6	1	1	1	1	1	1	1	1	1
	10" x	75	47	69	44	40	35	31	26	17	1	1	1	1	1	1	1	1	1	1
	12" x	93	59	89	59	55	52	48	44	36	23	8	1	1	1	1	1	1	1	1
	14" x	111	69	107	75	69	66	63	59	53	41	29	15	1	1	1	1	1	1	1
	16" x	129	82	125	90	84	82	78	74	68	58	47	35	23	1	1	1	1	1	1
	18" x	147	95	144	102	95	92	88	84	78	70	63	53	42	1	1	1	1	1	1
	20" x	165	108	162	117	111	108	104	99	94	86	78	69	59	1	1	1	1	1	1
	24" x	195	130	198	144	136	133	129	125	117	111	104	97	88	1	1	1	1	1	1
30" x	237	160	243	180	171	168	164	160	154	147	140	132	125	1	1	1	1	1	1	
36" x	281	195	294	220	210	207	203	198	192	186	178	170	163	1	1	1	1	1	1	
42" x	327	230	342	255	244	241	237	232	226	220	212	204	197	1	1	1	1	1	1	
48" x	375	265	396	295	284	281	277	272	266	260	252	244	237	1	1	1	1	1	1	
REDUCER (LARGER PIPE RESTRAINT)	6" x	34	21	13	8	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8" x	61	39	23	15	10	7	1	1	1	1	1	1	1	1	1	1	1	1	1
	10" x	83	53	34	22	15	10	7	1	1	1	1	1	1	1	1	1	1	1	1
	12" x	104	66	43	29	20	14	10	7	1	1	1	1	1	1	1	1	1	1	1
	14" x	125	81	53	35	24	17	12	8	1	1	1	1	1	1	1	1	1	1	1
	16" x	146	95	63	41	28	20	14	10	7	1	1	1	1	1	1	1	1	1	1
	18" x	167	108	72	47	32	22	16	11	8	1	1	1	1	1	1	1	1	1	1
	20" x	188	121	81	53	36	25	18	13	9	1	1	1	1	1	1	1	1	1	1
	24" x	220	145	98	64	43	30	21	15	11	1	1	1	1	1	1	1	1	1	1
	30" x	270	180	120	80	54	37	26	19	14	1	1	1	1	1	1	1	1	1	1
36" x	320	210	140	95	64	44	31	22	16	1	1	1	1	1	1	1	1	1	1	
42" x	370	245	165	110	75	51	35	25	18	1	1	1	1	1	1	1	1	1	1	
48" x	420	280	190	125	85	57	39	27	20	1	1	1	1	1	1	1	1	1	1	

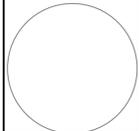
MECHANICAL THRUST RESTRAINT - MINIMUM PIPE LENGTHS

- REINFORCING STEEL ON ALL CONCRETE STRUCTURES SHALL HAVE A MINIMUM COVER OF 3 INCHES.
- BRICK COURSING ON MANHOLES SHALL BE PLASTERED WITH 1/2 INCH CEMENT MORTAR ON THE INSIDE AND OUTSIDE FACES.
- THE DISTANCES AND CONTROLS SHOWN ON THE DRAWINGS REFER TO THE CENTERLINE OF THE MANHOLES.
- 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.
- 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.
- 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-Z SEAL NO.2200 ELECTRICAL INSULATING PAD WITH VINYL BACKING.
- DROP CONNECTIONS ON MANHOLES ARE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED 2 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
- CAST IRON MANHOLE COVERS SHALL HAVE THE WORD 'SANITARY' CAST IN THEM IN RAISED LETTERS.

GENERAL NOTES



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CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

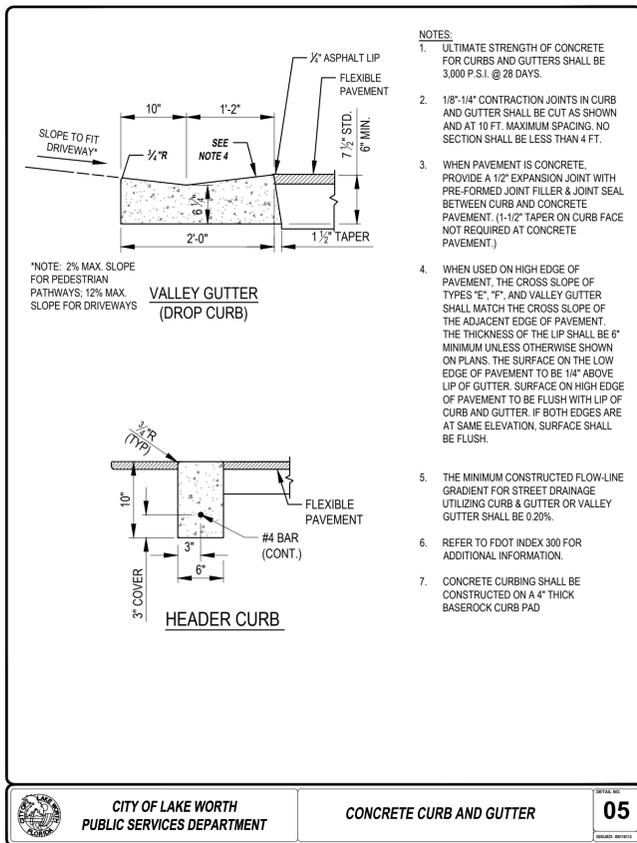
#	Date	Revision Description



CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

SEWER COLLECTION DETAILS	
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

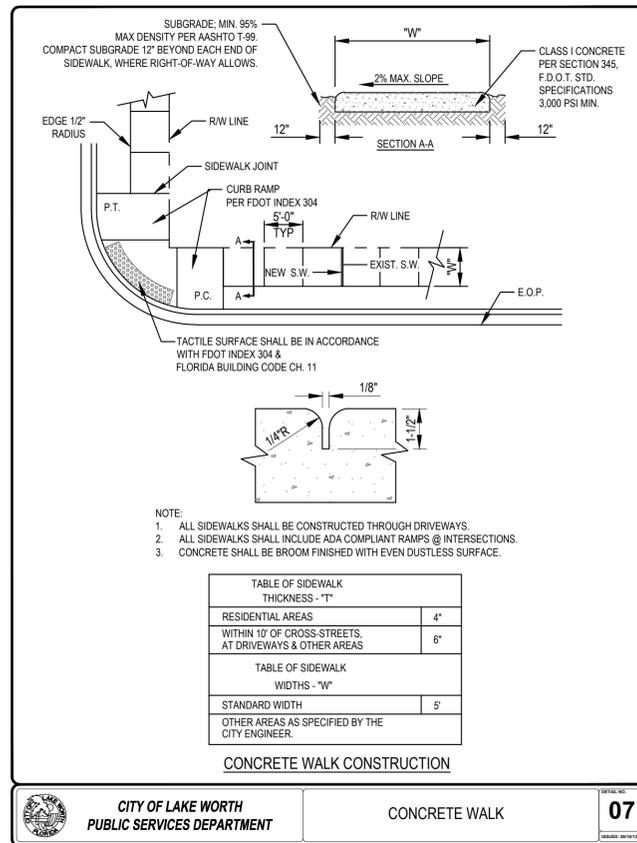
SHEET
C400



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

CONCRETE CURB AND GUTTER

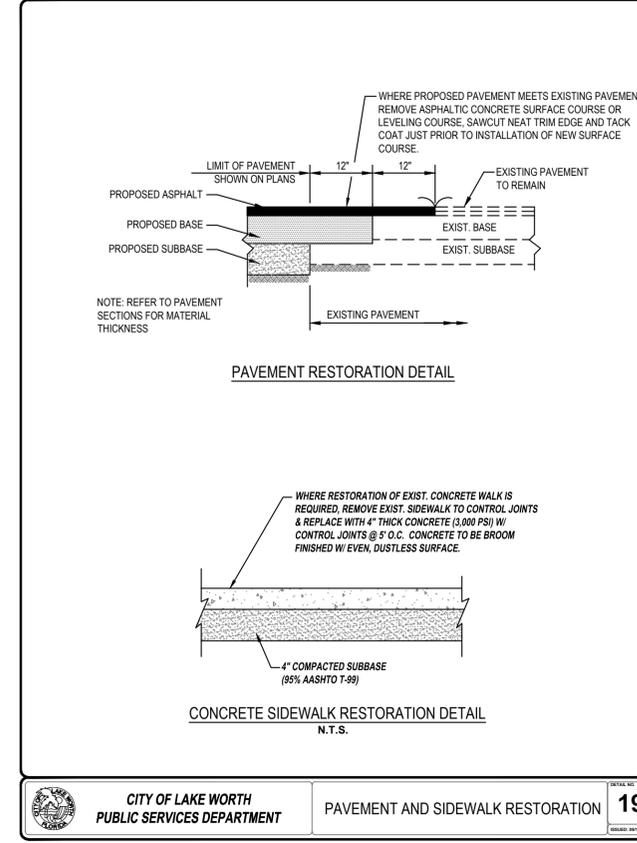
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CONCRETE WALK

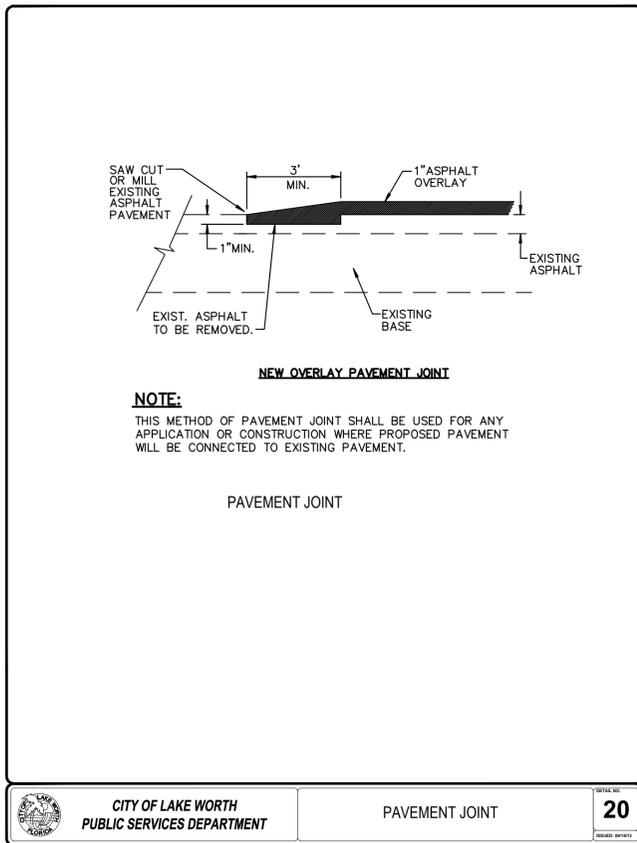
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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

PAVEMENT AND SIDEWALK RESTORATION

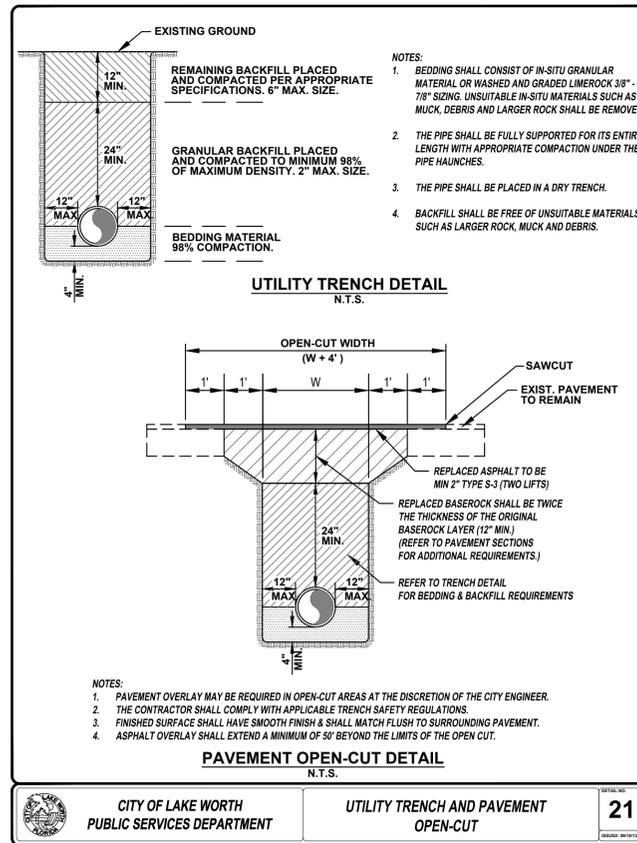
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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

PAVEMENT JOINT

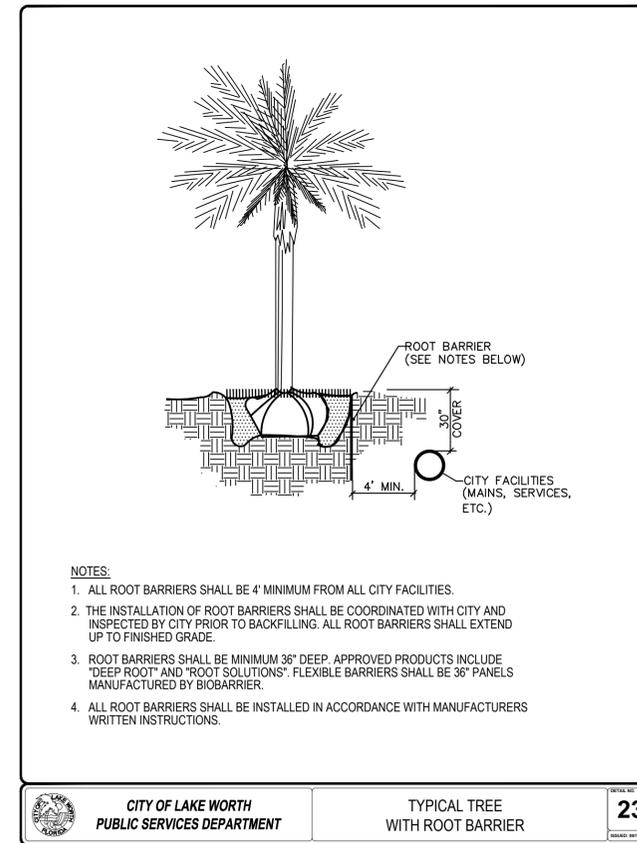
20



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

UTILITY TRENCH AND PAVEMENT OPEN-CUT

21



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

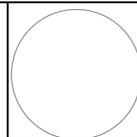
TYPICAL TREE WITH ROOT BARRIER

23

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#	Date	Revision	Description



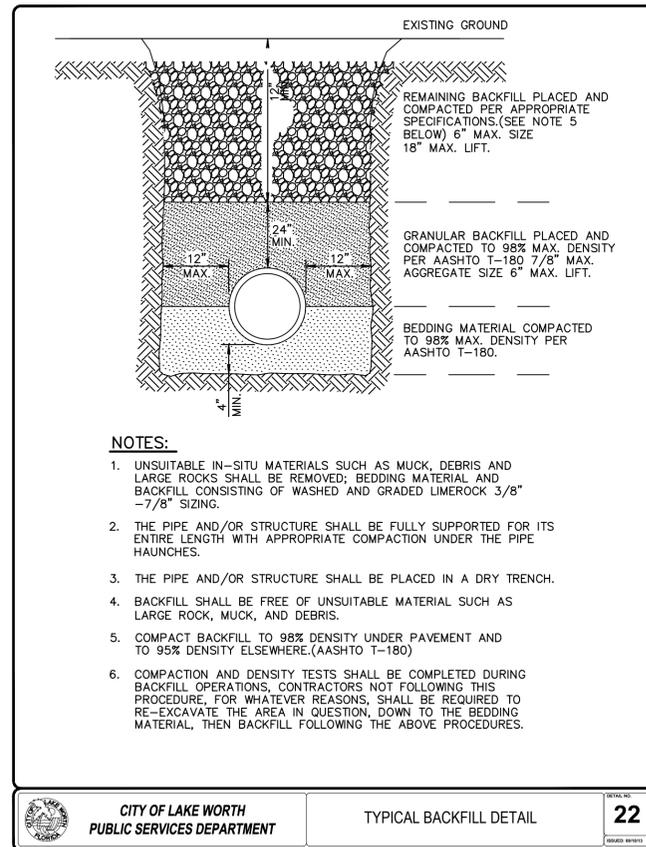
CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PAVING, GRADING & DRAINAGE DETAILS

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

SHEET
C500

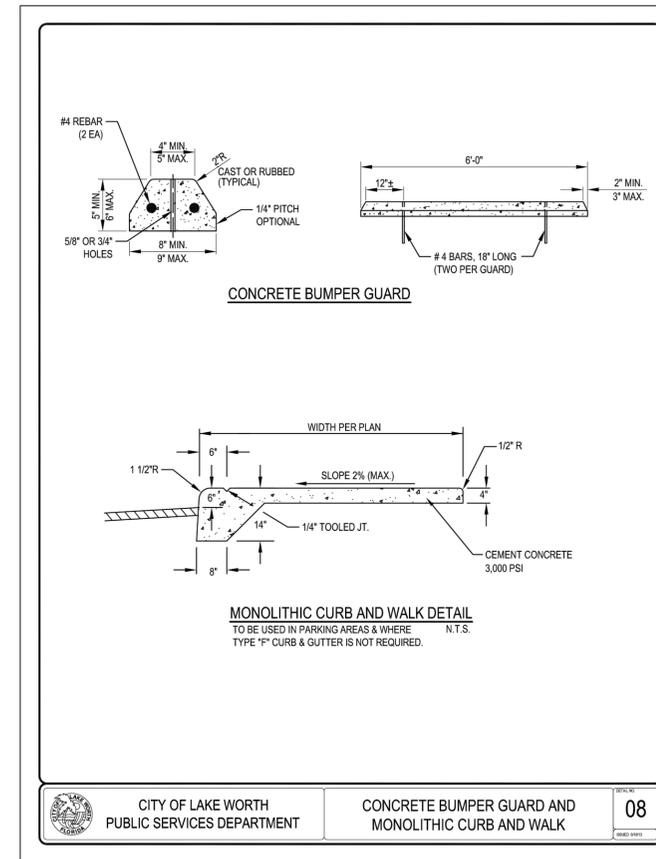
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CITY OF LAKE WORTH
PUBLIC SERVICES DEPARTMENT

TYPICAL BACKFILL DETAIL

22



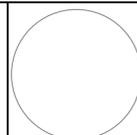
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PUBLIC SERVICES DEPARTMENT

CONCRETE BUMPER GUARD AND
MONOLITHIC CURB AND WALK

08



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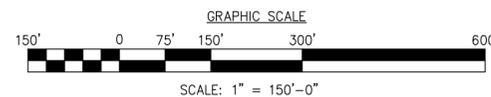
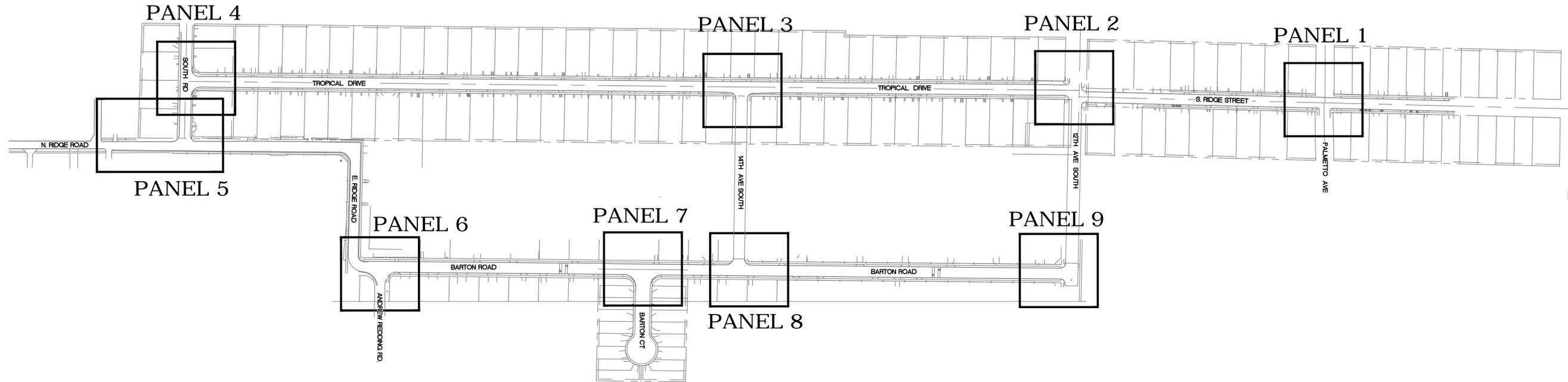
#	Date	Revision Description



CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

PAVING, GRADING & DRAINAGE DETAILS	
DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

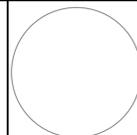
SHEET
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FL. REG. NUMBER: 20844

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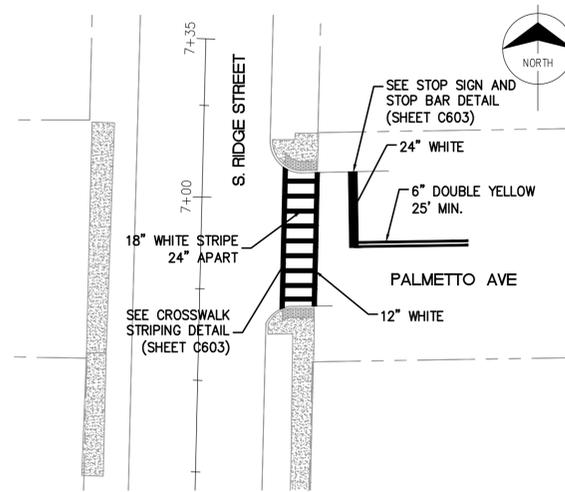


**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

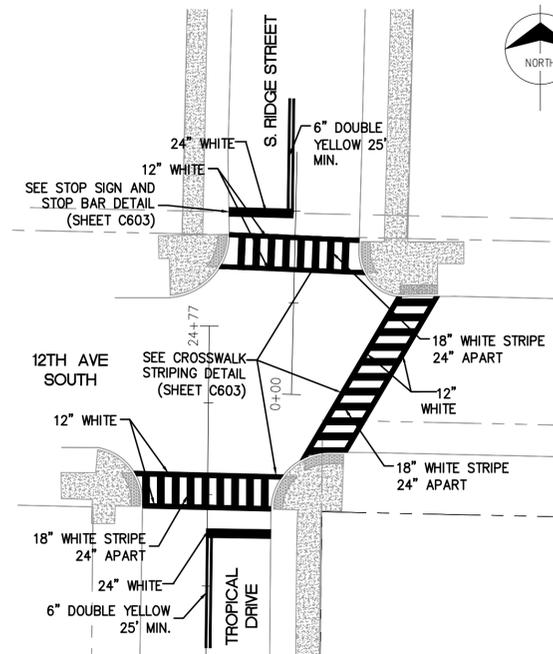
**SIGNING AND PAVEMENT
MARKING KEY PLAN**

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

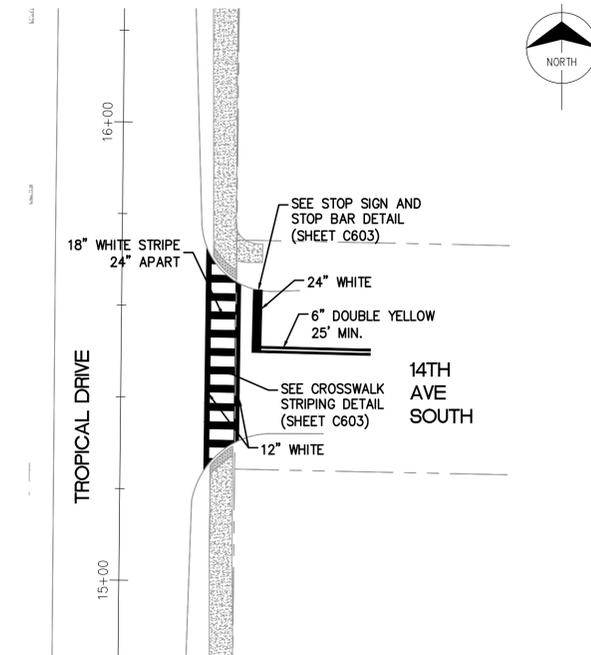
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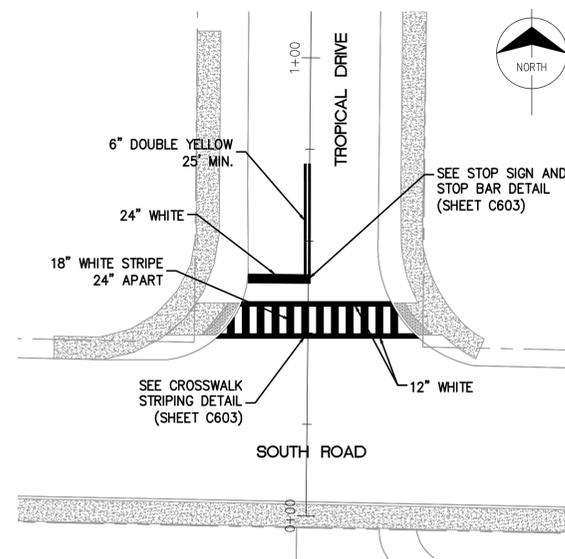
PANEL 1
PALMETTO AVENUE AND SOUTH RIDGE STREET



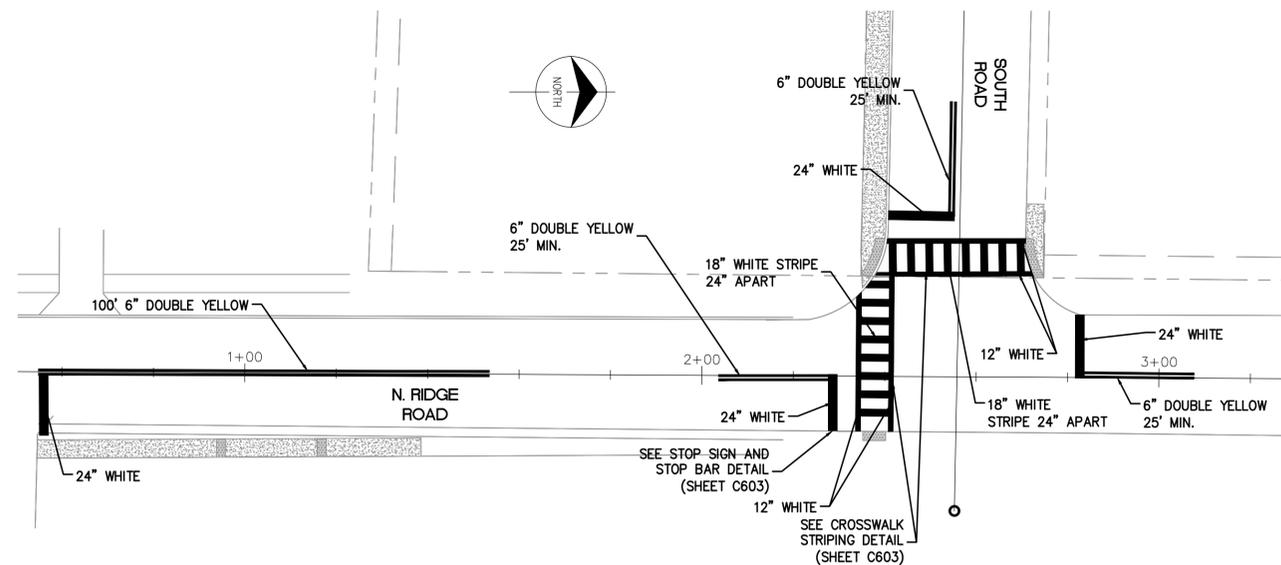
PANEL 2
12TH AVENUE SOUTH AND TROPICAL DRIVE/S. RIDGE STREET



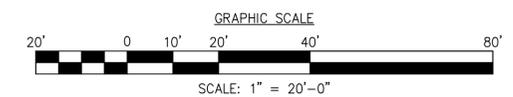
PANEL 3
TROPICAL DRIVE AND 14TH AVE SOUTH



PANEL 4
TROPICAL DRIVE AND SOUTH ROAD



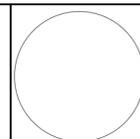
PANEL 5
SOUTH ROAD AND NORTH RIDGE ROAD



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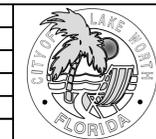


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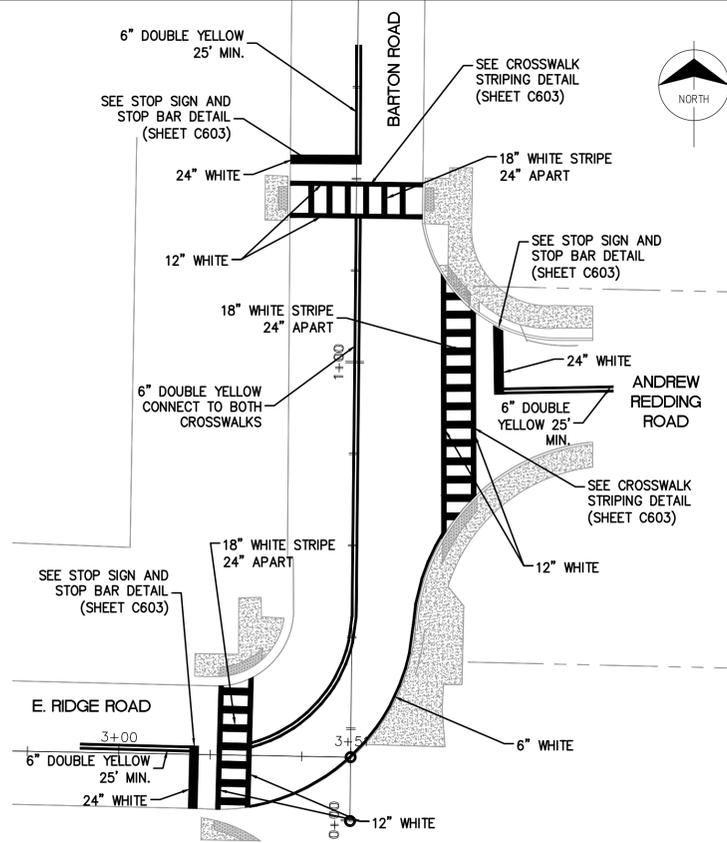


CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

SIGNING AND PAVEMENT
MARKING PLAN

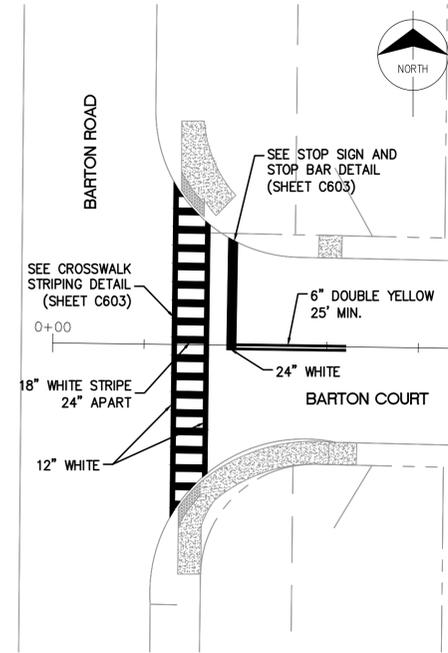
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APV: RH	DATE: 04/07/2016

SHEET
C601



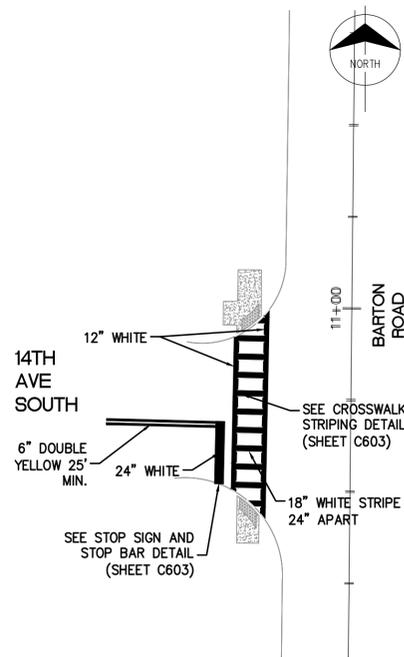
PANEL 6

E. RIDGE ROAD/BARTON ROAD AND ANDREW REDDING ROAD



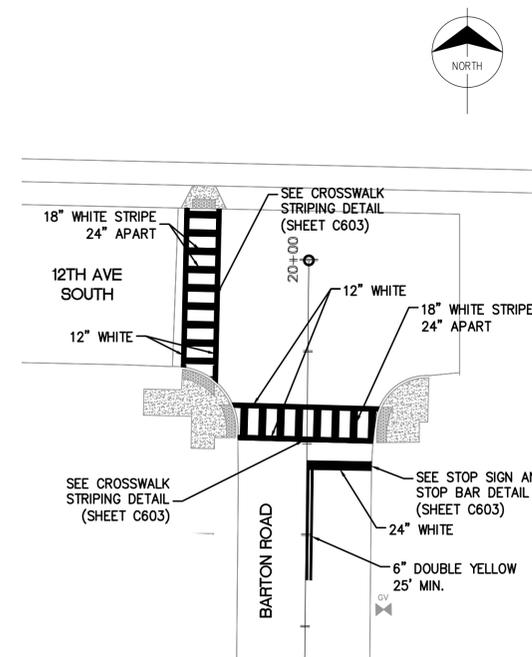
PANEL 7

BARTON ROAD AND BARTON COURT



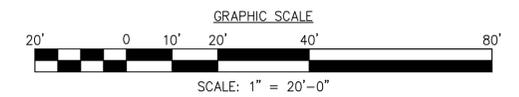
PANEL 8

BARTON ROAD AND 14TH AVE SOUTH



PANEL 9

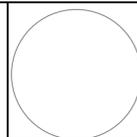
BARTON ROAD AND 12TH AVE SOUTH



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BOCA RATON, FLORIDA 33487-1350
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CERT. OF AUTHORIZATION NO. 1213



DATE: _____
ENGINEER OF RECORD:
RALPH HAYDEN, PE
FL. REG. NUMBER: 20844

#	Date	Revision Description

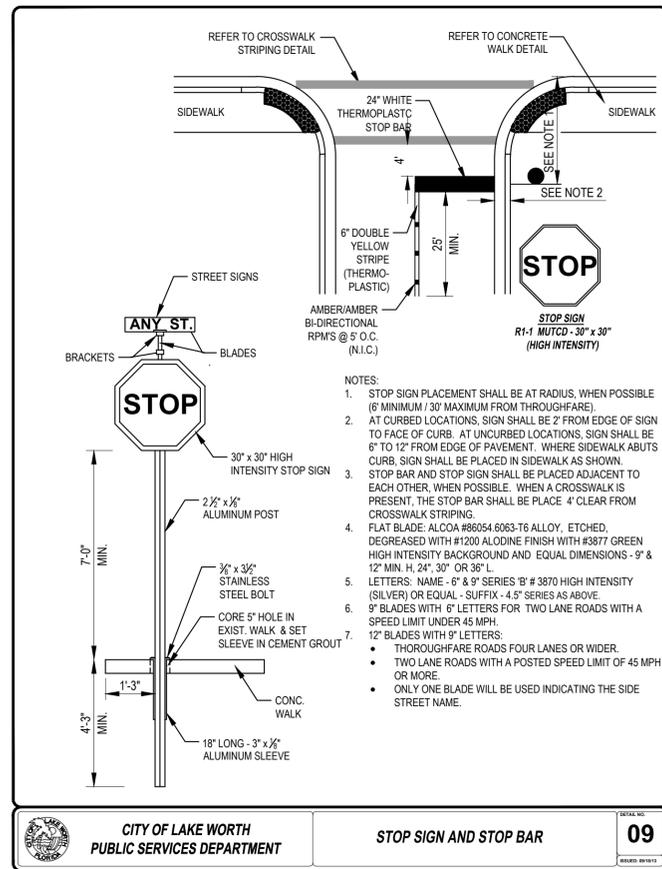


CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD

SIGNING AND PAVEMENT
MARKING PLAN

DWN: MH	DSN: WRB/MH
CHK: RH	SCALE: AS SHOWN
APV: RH	DATE: 04/07/2016

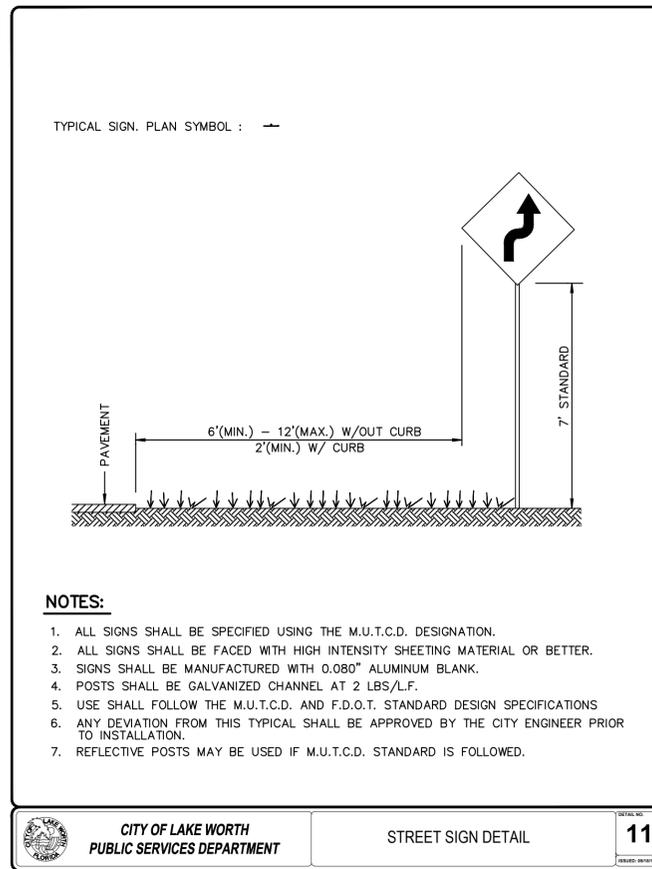
SHEET
C602



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

STOP SIGN AND STOP BAR

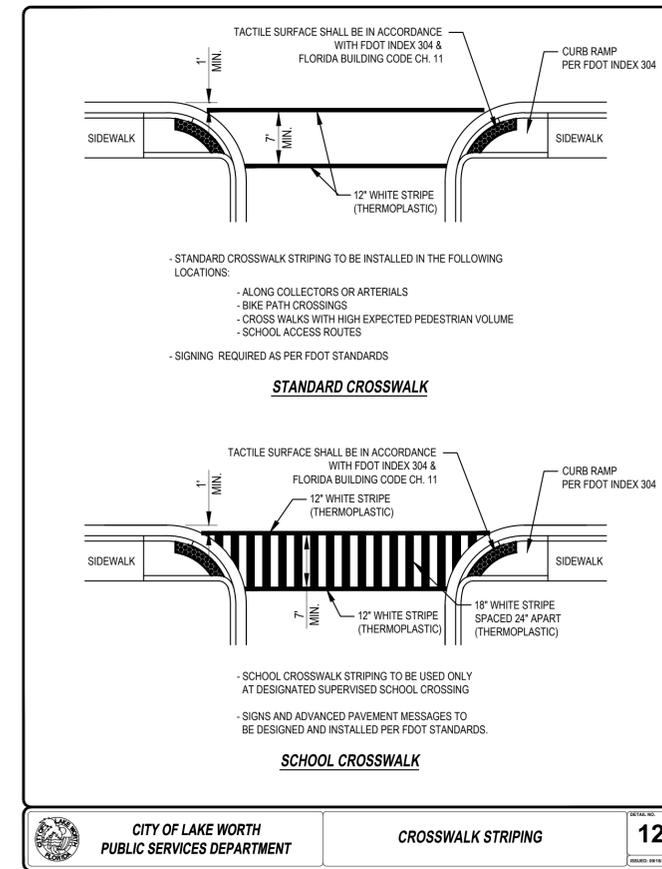
09



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

STREET SIGN DETAIL

11



CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

CROSSWALK STRIPING

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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 alkyd 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.

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PAVEMENT MARKING SPECIFICATIONS

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ALL PAVEMENT MARKINGS

All paved surfaces shall be properly marked prior to the hours of darkness.

RAISED PAVEMENT MARKERS

- R.P.M.s shall be installed on all lane lines and centerlines, spaced at 20' or 40'.
- R.P.M.s shall be a 4 x 4 type class "B" marker meeting F.D.O.T. specifications and shall be approved by the City Engineer prior to use.
- R.P.M.'s shall be installed using alkyd thermoplastic on asphalt and epoxy on concrete.

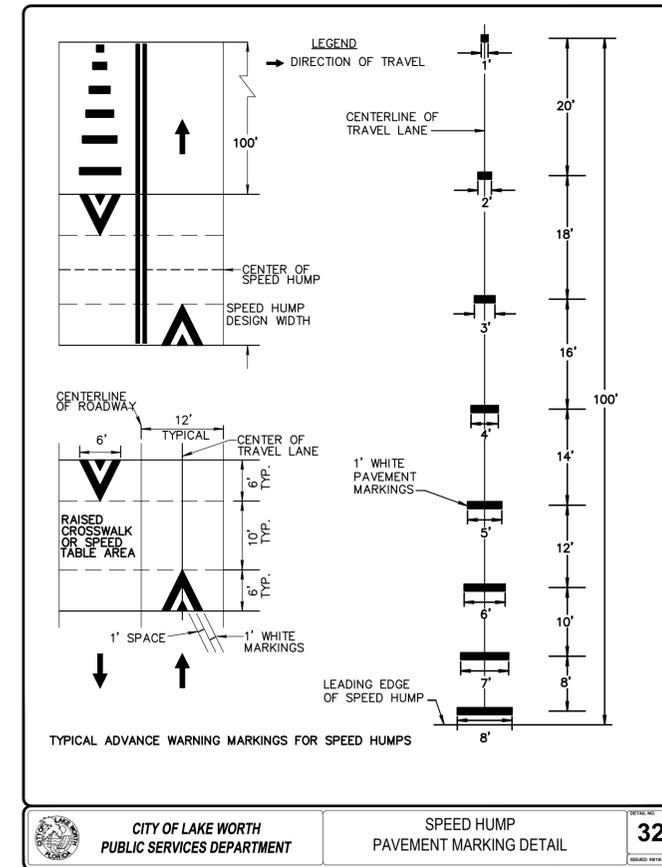
OTHER NOTES

- All Materials within right-of-way shall be thermoplastic and per F.D.O.T. specifications.
- Pavement marking within private parking lots may be painted according to F.D.O.T. specifications, except for all stop bars adjacent to public right-of-way.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

PAVEMENT MARKING SPECIFICATIONS

14



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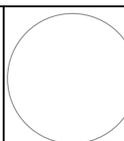
SPEED HUMP PAVEMENT MARKING DETAIL

32

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**CITY OF LAKE WORTH
INFRASTRUCTURE IMPROVEMENTS
PALM BEACH COUNTY, FLORIDA
TROPICAL DRIVE & BARTON ROAD**

SIGNING AND PAVEMENT MARKING DETAILS

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