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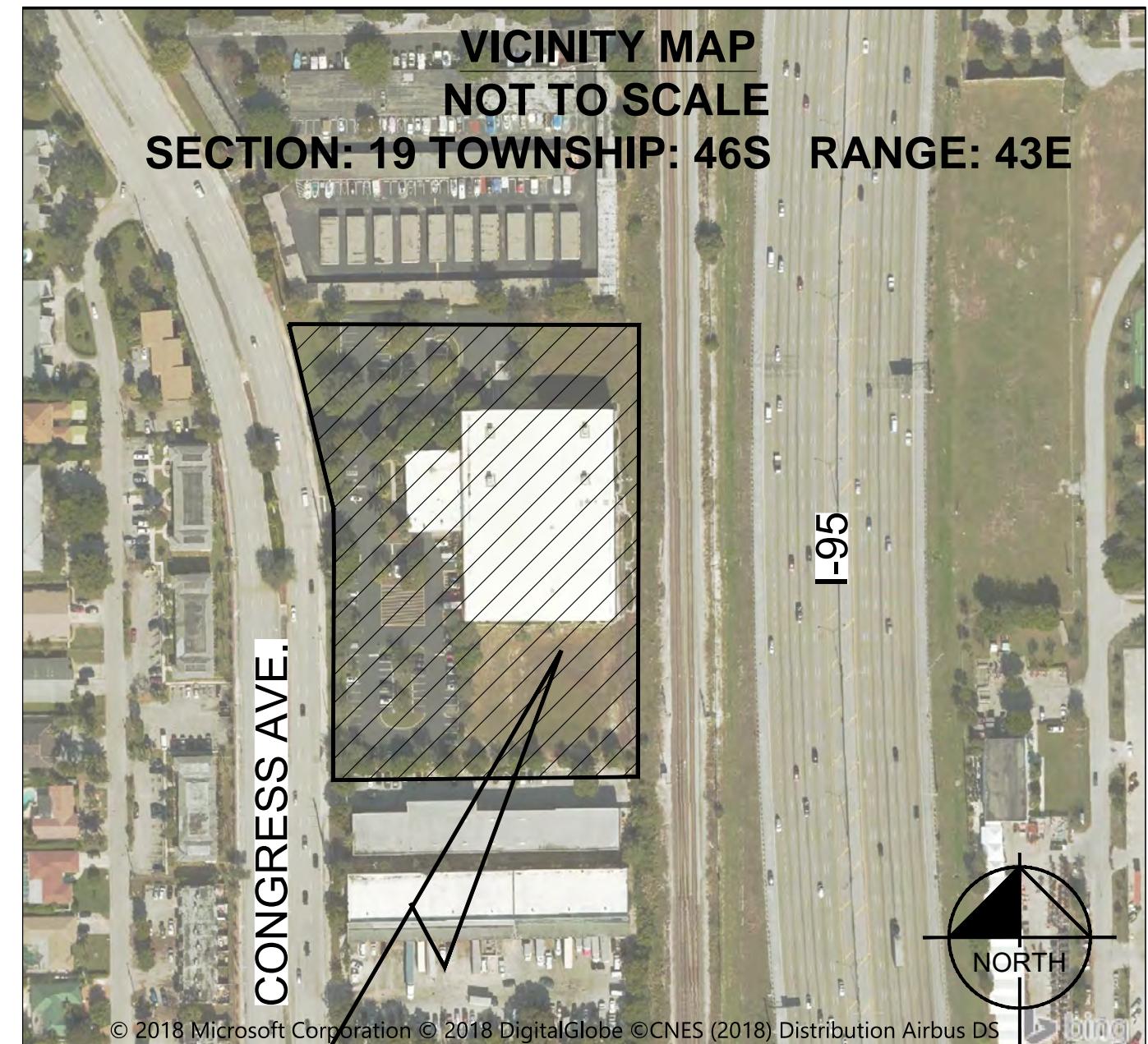
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CLASS III SITE PLAN COLLIER CAR CLUB FOR DLR GROUP, INC. DELRAY BEACH, FL

FEBRUARY 2019



PROJECT LOCATION
777 S. CONGRESS AVE.
DELRAY BEACH, FL 33445

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COLLIER CAR CLUB	COVER SHEET	PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.53' = (NGVD 1929)
PREPARED FOR DLR GROUP, INC. DELRAY BEACH	Always call 811 two full business days before you dig to have underground utilities located and marked.	Sunshine811.com
SHEET NUMBER C0.00	02/15/19 JT	DATE BY REVISIONS

Kimley»Horn		© 2019 KIMLEY-HORN AND ASSOCIATES, INC. 1615 S CONGRESS AVE, SUITE 201, DELRAY BEACH, FL 33445 PHONE: 561-530-2355 FAX: 561-465-8175 WWW.KIMLEY-HORN.COM	
Sheet List Table			
LICENSED PROFESSIONAL KHA PROJECT 148876001 DATE FEB 2019 SCALE AS SHOWN XXY DESIGNED BY XXY DRAWN BY XXY CHECKED BY JAW DATE: -----	Sheet Number C0.00 C0.01 C0.02 C2.00 C4.00 C4.10 C4.11 C5.00 C5.10 C5.11 C6.00 C7.00 C7.01 C7.02 L0.00 L0.01 L1.00 L1.01 L1.10 L1.11 Sheet Title COVER SHEET GENERAL NOTES GENERAL NOTES DEMOLITION PLAN SITE PLAN SITE DETAILS SITE DETAILS ENGINEERING PLAN ENGINEERING DETAILS ENGINEERING DETAILS COMPOSITE PLAN VEHICLE MOVEMENT PLAN – PASSENGER CAR VEHICLE MOVEMENT PLAN – LARGE TRUCK VEHICLE MOVEMENT PLAN – FIRE TRUCK TREE DISPOSITION PLAN TREE DISPOSITION PLAN LANDSCAPE PLAN LANDSCAPE PLAN LANDSCAPE DETAILS LANDSCAPE NOTES		

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THE PRESENCE OF GROUNDWATER SHOULD BE
ANTICIPATED. CONTRACTOR'S BID SHALL
INCLUDE CONSIDERATION FOR ADDRESSING THIS
ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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

<p>GENERAL CONSTRUCTION NOTES</p> <ol style="list-style-type: none"> THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO THE CONSTRUCTION FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 2 WORKING DAYS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR MUST CALL THE UTILITY COMPANIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND THE ENGINEER. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND ENGINEER DIRECTLY FROM THE TESTING AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA AS THE ACTUAL LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION FOR ALL CONSTRUCTED IMPROVEMENTS AS CONSTRUCTION PROGRESSES AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIED CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC. DURING THE BID PROCESS WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLANS TAKE PRECEDENCE. THE ENGINEER, LANDSCAPE ARCHITECT, COUNTY, CITY OR PROJECT MANAGERS ARE NOT TO BE HELD RESPONSIBLE FOR DISCREPANCIES TO THE SPECIFICATIONS OR PLANS. THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION. CONTRACTOR IS ADVISED THAT THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT ALL OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN THE SAME. A COPY SHALL BE SENT TO THE ENGINEER OF RECORD, ARCHITECT OF RECORD AND THE OWNER. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF PROPOSED EXCAVATION. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 2 WORKING DAYS AND A MAXIMUM OF 5 WORKING DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE LOCAL ELECTRICAL PROVIDER ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL PLANS RELATED TO SITE WORK INCLUDING (BUT NOT LIMITED TO) LANDSCAPE IRRIGATION, SITE LIGHTING, BUILDING FOUNDATION, PLUMBING, FIRE SPRINKLER, AND OTHER APPLICABLE PLANS FOR CONFLICTING INFORMATION AND ALERT OWNER'S REPRESENTATIVE OF ANY CONFLICT FOR RESOLUTION. CONTRACTOR SHALL VERIFY LOCATION OF ALL IRRIGATION, STREET LIGHTING, AND ELECTRICAL CONDUIT THAT WILL BE IN CONFLICT WITH ANY PROPOSED CONSTRUCTION AND SHALL RESOLVE CONFLICT ACCORDINGLY. COST OF CONFLICT RESOLUTION SHALL BE INCLUDED IN THE BID. ANY DEBRIS RESULTING FROM STRIPPING AND DEMOLITION OPERATIONS SHALL BE REMOVED FROM THE SITE AT FREQUENT INTERVALS TO PREVENT THIS MATERIAL FROM ACCUMULATING ON SITE. UPON REMOVAL OF TREES, SHRUBS OR ANY STUMP GRINDING, NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER SLABS OR FOOTINGS OR PAVED AREAS. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE. THE CONTRACTOR SHALL ENSURE THAT ANY TREE OR SHRUB PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS <p>PRECONSTRUCTION RESPONSIBILITIES</p> <ol style="list-style-type: none"> UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER AND ITSELF. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. <p>CONSTRUCTION SAFETY</p> <p>ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.</p> <p>EROSION CONTROL NOTES</p> <ol style="list-style-type: none"> THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION AND SEDIMENTATION CONTROL PLAN, THE STANDARD DETAILS, AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS PROVIDED BY THE CONTRACTOR. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER. EROSION AND SEDIMENTATION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DRAINED AND PROPERLY TREATED OR DISPOSED. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION AND SEDIMENTATION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. DUKE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES AS NECESSARY AS CONSTRUCTION PROGRESSES (SILT FENCES, ETC.) TO PREVENT EROSION. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION. EROSION AND SEDIMENTATION CONTROL PLANS PROVIDED HEREIN ARE A GUIDELINE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE FINAL STORM WATER POLLUTION PREVENTION PLAN. THE PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER WHICH DEMONSTRATES THE MECHANISMS AND PRACTICES THAT WILL BE EMPLOYED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREA DURING CONSTRUCTION. THE PLAN SHALL BE CONSISTENT WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT REQUIREMENTS PERTAINING TO POLLUTION PREVENTION PLANS, THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE LOCATIONS OF SILT BARRIERS, TURBIDITY SCREENS OR TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND OTHER METHODS TO PREVENT POLLUTION. REFUELING OR STORAGE OF VEHICLES OR EQUIPMENT THAT UTILIZE PETROLEUM BASED PRODUCTS SHALL BE PROHIBITED ANYWHERE WITHIN 50 FEET OF A WATER'S EDGE. THE PLAN SHALL BE SUBMITTED TO THE OWNER AFTER NOTICE AND APPROVAL IS RECEIVED. TO PROCEED AFTER REVIEW BY OWNER, THE PLAN SHALL BE FILED WITH ALL APPLICABLE REGULATOR AGENCIES BY THE CONTRACTOR. REFER TO FURTHER NOTES AND DETAILS WITHIN THESE DOCUMENTS. SILT FENCE IS REQUIRED AS SHOWN ON THE PLANS AND ANYWHERE ADDITIONAL AS REQUIRED BY CONSTRUCTION. SILT FENCE IS NOT APPLICABLE IN PAVEMENT AREAS. LIMITS OF CONSTRUCTION SHOWN ARE DIAGRAMATIC. CONTRACTOR TO PROVIDE PLAN FOR SHOP DRAWING REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. <p>DEMOLITION NOTES</p> <ol style="list-style-type: none"> ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS, PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN AND LANDSCAPE PLAN FOR DEMOLITION/ PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED OR RELOCATED SHALL BE PRESERVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION. CONTRACTOR TO SEE LANDSCAPE PLANS FOR SITE CONSTRUCTION AND PREMISES. ALTHOUGH NOT OTHERWISE NOTED, CONTRACTOR TO ENSURE EXISTING TREES TO REMAIN. SHOULD ANY TREE TO BE REMAIN BE DAMAGED BY THE CONTRACTOR, IT WILL REQUIRE REPLACEMENT IN KIND. <p>TRENCH SAFETY ACT</p> <ol style="list-style-type: none"> CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID: <ol style="list-style-type: none"> A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM "2" TO THE ENGINEER PRIOR TO STARTING WORK. <p>SURVEY DATA</p> <ol style="list-style-type: none"> THE CONTRACTOR SHALL PROTECT ALL PERMANENT REFERENCE MONUMENTS AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO SURVEY MARKERS DURING CONSTRUCTION. ANY SURVEY MARKERS DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88). <p>INTERRUPTION OF EXISTING UTILITIES</p> <p>ANY CONSTRUCTION WORK THAT REQUIRES INTERRUPTION OF SERVICE TO ANY CUSTOMER SHALL BE DONE SO WITHIN A MINIMUM OF SEVENTY-TWO (72) HOUR NOTICE TO, AND WRITTEN APPROVAL BY THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL JURISDICTIONAL AGENCIES AND OTHER GOVERNING AGENCIES, AND OTHER AFFECTED UTILITIES PRIOR TO SCHEDULING THE SHUTDOWN TO ASSESS THE SCOPE OF WORK. ALL SYSTEM SHUT DOWN SHALL BE SCHEDULED BY THE CONTRACTOR AT SUCH TIME THAT SYSTEM DEMAND IS LOW. THIS GENERALLY REQUIRES APPROVAL BY THE LOCAL UTILITY. THE CONTRACTOR SHALL NOTIFY THE REPRESENTATIVE OF THE UTILITY, ALL COST FOR OVERTIME WORK BY THE REPRESENTATIVE OF THE UTILITY SHALL BE BORNE BY THE CONTRACTOR. EACH CUSTOMER AFFECTED BY THE SHUT DOWN SHALL BE PROVIDED, MINIMUM, FORTY-EIGHT (48) HOURS WRITTEN NOTIFICATION BY THE CONTRACTOR.</p> <p>PAVING, GRADING AND DRAINAGE NOTES</p> <ol style="list-style-type: none"> ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL COUNTY OR STATE SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS, WHICHEVER IS MOST RESTRICTIVE. ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED, UNLESS OTHERWISE NOTED. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/PHA) AND THE REQUIREMENTS OF THE STATE OR ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED WITH BAHIA SOD UNLESS INDICATED OTHERWISE ON THE ENGINEERING OR LANDSCAPE PLANS. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT OTHERWISE UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEARED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMIT. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE ENGINEER PRIOR TO ANY EXCAVATION. CONTRACTOR TO STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL A GOOD STAND OF GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER. <p>GENERAL NOTES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">KHA PROJECT</td> <td style="width: 10%;">148876001</td> <td style="width: 10%;">LICENSED PROFESSIONAL</td> <td style="width: 10%;">JASON A. WEBER, P.E.</td> </tr> <tr> <td>DATE</td> <td>FEB 2019</td> <td>SCALE AS SHOWN</td> <td>FLORIDA LICENSE NUMBER</td> </tr> <tr> <td>DESIGNED BY</td> <td>YXY</td> <td>DRAWN BY</td> <td>73962</td> </tr> <tr> <td>DRAINED BY</td> <td>YXY</td> <td>CHEMED BY</td> <td>JAW</td> </tr> <tr> <td colspan="4">GENERAL NOTES</td> </tr> </table> <p>COLLIER CAR CLUB PREPARED FOR DLR GROUP, INC. FLORIDA</p> <p>PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.53' = (NGVD 1929)</p> <p>Always call 811 two full business days before you dig to have underground utilities located and marked.</p> <p>Sunshine811.com</p> <p>SHEET NUMBER C0.01</p>	KHA PROJECT	148876001	LICENSED PROFESSIONAL	JASON A. WEBER, P.E.	DATE	FEB 2019	SCALE AS SHOWN	FLORIDA LICENSE NUMBER	DESIGNED BY	YXY	DRAWN BY	73962	DRAINED BY	YXY	CHEMED BY	JAW	GENERAL NOTES			
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GENERAL NOTES																				

WATER AND SEWER UTILITY NOTES

- ALL CONSTRUCTION SHALL MEET OR EXCEED THE LOCAL WATER AND SEWER REQUIREMENTS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SPECIFICATIONS AND DETAILS FROM THE LOCAL AGENCY.
- THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES AND GRAVITY SEWER LINES AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, TRANSPORTATION, INSURANCE AND LABOR NECESSARY TO CONSTRUCT THE IMPROVEMENTS CONCRETE IN ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE CONTRACTOR. THE CONTRACTOR SHALL NOT UNDERESTIMATE UTILITIES SHOWN OR STATE THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED DUE TO THE INVERSION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. ENSURE CLEAN AND OPEN ENDS OF PIPE AND FITTINGS WITH A TIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES IMPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK-FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING OF ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- UNDERGROUND LINES SHALL BE AS-BUILT BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR BEFORE BACK FILLING.
- CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
- ALL PIPES AND CONNECTIONS ARE TO BE RESTRAINED IN ACCORDANCE WITH THE DETAILS OR JURISDICTIONAL AGENCY REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
- ALL WATER DISTRIBUTION SYSTEM MATERIALS (INCLUDING SERVICES) AND INSTALLATION SHALL CONFORM TO THE SPECIFICATIONS OF THE LOCAL WATER PROVIDER AS PROVIDED IN THEIR STANDARD SPECIFICATIONS MANUAL AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN SPECIFICATION MANUALS PRIOR TO BIDDING THE PROJECT.
- ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH F.A.C. 62-555.3202(1)(03), USING BLUE AS THE PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK WITH BLUE STRIPES INCORPORATED INTO THE PIPE, AND SEAL COATED IN STRIPES DURING THE MANUFACTURING OF THE PIPE). MILLENNIUM CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXES OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIP PIPE DURING AND AFTER INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE, AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE THAT IS LOCATED IN A TRENCH, THE TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.
- ALL WATER MAINS ARE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI, HAVE COMPRESSION TYPE BELL AND SPUR JOINTS, AND ARE EARTHED ANS/ASME B16.21 STD. PVC PIPE, 100% CLEAR SDR FOR 12 INCHES DIA. AND LARGER, AND CLASS 125 PIPE DIA. THAT IS SMALLER THAN 6 INCHES AND AWWA C900-93 PVC PIPE WITH A MAXIMUM SDR OF 180. ALL D.P. WATER MAINS SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARDS. ALL D.P. FORCE MAINS SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING APPROXIMATELY ONE MIL THICK IN ACCORDANCE WITH ANSI 21.51-B CEMENT MORTAR LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION. ALL D.P. FORCE MAINS AND GRAVITY SEWER MAINS SHALL BE COATED INSIDE WITH POLYBOND 100% POLYETHYLENE COMPLYING WITH A.S.T.M. DESIGNATION D 1248 AND HAVE A MINIMUM THICKNESS OF 0.060 INCHES. SEE THE MANUFACTURER'S SPECIFICATIONS FOR MORE DETAILS. OR PROTECTOR 401 CERAMIC EPOXY. ALL D.P. PIPE SHALL BE LAID WITH A MINIMUM OF 36 CLEAR COVER. ALL PVC PIPE SHALL BE LAID WITH A MINIMUM OF 36 CLEAR COVER.
- NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE AT LEAST 12 INCHES ABOVE THE OTHER PIPELINE) OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THAT THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
- THE WATER SYSTEM SHALL BE CLEANED OF DEBRIS, FLUSHED AND TESTED FOR A PERIOD OF NOT LESS THAN 2 HOURS AT A MINIMUM STARTING PRESSURE OF 130 PSI WITH AN ALLOWABLE LEAKAGE NOT TO EXCEED THE ALLOWABLE GAL/HR IN ACCORDANCE WITH THE ANSI/AWWA C-600-05 STANDARD SECTION 4.2.2.

$$(EQUATION \ L = \frac{SD \cdot P}{148,000})$$

L = ALLOWABLE LEAKAGE, GALLONS/HOUR
S = LENGTH OF PIPE TESTED, FEET
D = NOMINAL DIAMETER, INCHES
P = AVERAGE TEST PRESSURE, LB/IN GAUGE

- AFTER THE PRESSURE TEST, THE SYSTEM SHALL BE DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE W/ANSI/AWWA C651-05 STD. BACTERIOLOGICAL TESTS SHALL BE TAKEN TWO (2) CONSECUTIVE DAYS, AT LEAST 24 HOURS APART AND SHALL BE AT LEAST ONE SAMPLE PER 1,200 FEET OF MAIN IN THE SYSTEM. THE SAMPLE SHALL HAVE A HETEROLOGIC PLATE COUNT (HPC) LESS THAN 500 CFU/ML AND SHALL BE FREE OF COLIFORM BACTERIA.
- FOR 2 HOURS AT LINE PRESSURE AFTER THE 150 PSI TEST & DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE W/ANSI/AWWA C651-05 STD.
- AT THE TIME OF BACTERIOLOGICAL SAMPLING, CHLORINE RESIDUAL DETERMINATION SHALL BE MADE TO INSURE THAT CHLORINE CONCENTRATION IN THE MAIN IS NO HIGHER THAN THAT GENERALLY IN THE SYSTEM (4.0 MG/L FREE OR 4.0 MG/L COMBINED MAXIMUM), OR LESS THAN 0.2 MG/L FREE OR 0.6 MG/L COMBINED. THE RESULT SHALL BE REPORTED ALONG WITH THE BACTERIOLOGICAL TEST RESULTS. ALL TESTING SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR.

MINIMUM REQUIRED AS-BUILT INFORMATION

- ALL AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR, AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
- STORM DRAINAGE:
 - TOP ELEVATION OF EACH MANHOLE FRAME AND COVER / GRATE AS WELL ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.).
 - INVERT ELEVATION OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES.
 - INVERTS OF ALL MITERED END SECTIONS
 - ACTUAL GRADE OF PIPE BETWEEN THE STRUCTURES
 - INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB-OUTS.
- CONTRACTOR SHALL PROVIDE ACCURATE AS-BUILT DIMENSIONS AND ELEVATIONS OF THE STORM WATER MANAGEMENT AREAS IMMEDIATELY AFTER FINAL GRADING AND PRIOR TO SEEDING OR SODDING OF THE SLOPES. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE CROSS-SECTIONS ON ALL OF THE IMPROVEMENTS, LEAVING A 100-FOOT INTERVAL. THESE CROSS-SECTIONS SHALL BE PROVIDED FROM TOP OF BANK TO THE SLOPE BREAK BELOW CONTROL ELEVATION. THE ENGINEER'S APPROVAL IS REQUIRED PRIOR TO GRASSING OF THE BANK. IF ANY MODIFICATIONS ARE SPECIFIED, ADDITIONAL AS-BUILTS MAY BE REQUIRED.
- LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES.
- REVISIONS TO ROUTING OF PIPING AND CONDUITS.
- REVISIONS TO ELECTRICAL CIRCUITRY.
- ACTUAL EQUIPMENT LOCATIONS.
- CHANGES MADE BY CHANGE ORDER OR CONSTRUCTION CHANGE DIRECTIVE.
- CHANGES MADE FOLLOWING ENGINEER'S WRITTEN ORDERS.
- DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS.
- FIELD RECORDS FOR VARIABLE AND CONCEALED CONDITIONS.
- ALL SLEEVES, FITTINGS, TEES, BENDS, VALVES, ETC. SHALL BE LOCATED BY STATION/OFFSET (OR METHOD APPROVED BY ENGINEER) AND ELEVATION OF TOP OF PIPE FOR ALL CONSTRUCTED SLEEVING AS-BUILTS FOR ALL SLEEVING DEPICTING TOP OF PIPE AT 100-FOOT INTERVALS MUST BE PROVIDED.
- RECORD DRAWINGS SHALL INDICATE AS-BUILT DATA FOR EVERY ELEVATION SHOWN ON THE PLANS.
- IF A NEW BENCHMARK LOCATION IS ESTABLISHED, CONTRACTOR SHALL PROVIDE A BENCH LOOP CLOSURE TO THE CLOSEST EXISTING BENCHMARKS IN BOTH DIRECTIONS. ALL BENCHMARK DATA SHALL BE SUBMITTED BY A REGISTERED LAND SURVEYOR.
- IDENTIFICATION OF ADDENDUM ITEMS ISSUED DURING BIDDING PERIOD.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL AS-BUILT DATA FOR UTILITIES AND SLEEVING IS COLLECTED PRIOR TO PAVEMENT SECTION CONSTRUCTION. PRELIMINARY UTILITY AS-BUILTS MUST BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO PAVEMENT SECTION CONSTRUCTION.
- PRESSURE SYSTEMS (WATER):
 - ACTUAL LENGTHS BETWEEN BRANCHES AND VALVES ALONG THE MAIN RUN.
 - TOP OF PIPE AND FINISHED GRADE ELEVATIONS AT 100' INTERVALS.
 - LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT TIES).
 - AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
- ALL AS-BUILT INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR RECORD COMPLETE SETS OF AS-BUILT CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW AS-BUILT CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
- ALL OTHER REQUIRED PRESSURE PIPE INFORMATION IN ACCORDANCE WITH THE AS-BUILT REQUIREMENTS OF PALM BEACH COUNTY.
- UTILITY CROSSING SEPARATION INFORMATION FOR THAT PROVIDED ON THE PLANS VERIFYING:
 - SIZE AND MATERIAL OF CROSSING PIPES
 - TOP ELEVATION OF BOTTOM PIPE
 - BOTTOM ELEVATION OF TOP PIPE
 - FINISH SURFACE ELEVATION OVER UTILITY CROSSING

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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

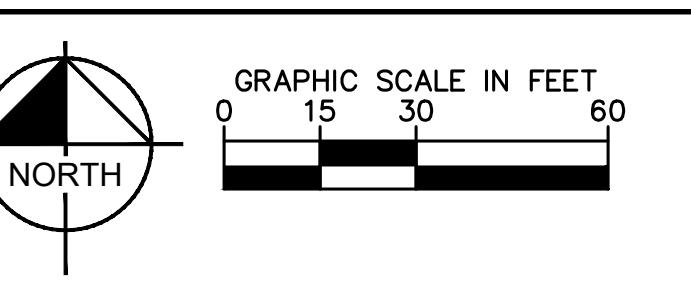
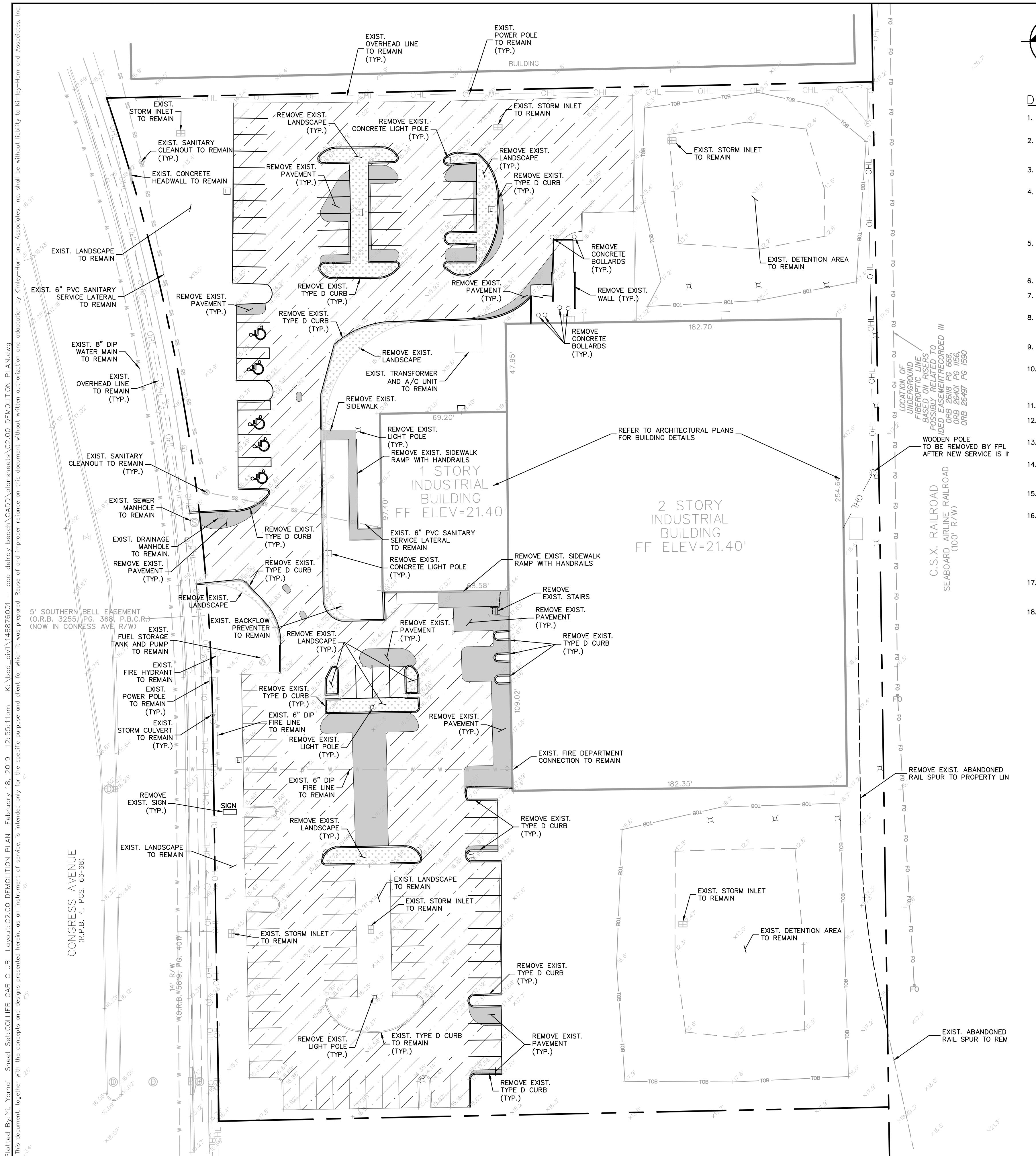
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COLLIER CAR CLUB PREPARED FOR DLR GROUP, INC. FLORIDA DELRAY BEACH	GENERAL NOTES	KHA PROJECT 148876001	LICENSED PROFESSIONAL JASON A. WEBER, P.E.
		DATE FEB 2019	SCALE AS SHOWN XXY
		DESIGNED BY DRAWN BY XXY	FLORIDA LICENSE NUMBER 73962
		CHEMED BY JAW	DATE: - - -
PLANS ARE IN NAVD 1988 DATUM CONVERSION EQUATION IS BELOW: (NAVD 1988) + 1.53' = (NGVD 1929)			
SHEET NUMBER C0.02			

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PHONE: 561-530-2355; FAX: 561-565-8175
CA 00000696

REVISIONS	DATE BY
	02/15/19 JT



DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
2. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION, AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET.
3. ALL VALVE BOXES, MANHOLES, CATCH BASINS, AND OTHER ITEMS TO REMAIN SHALL BE ADJUSTED TO PROPOSED GRADE.
4. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCOMBRE THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
5. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
6. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
7. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE.
8. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
10. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
11. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
12. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS, CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
13. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY THE CITY OF DELRAY BEACH AND CONSTRUCTION MANAGER.
14. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.
15. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
16. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PER THE CONTRACT. ITEMS WHICH ARE REMOVED BUT NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
17. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.
18. CONTRACTOR MUST COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.

LEGEND

PROPERTY LINE
EXISTING SANITARY LINE
EXISTING UNDERGROUND ELECTRICAL
EXISTING WATER
EXISTING STORM
EXISTING GAS
EXISTING TELEPHONE
EXISTING OVERHEAD ELECTRIC
EXISTING LANDSCAPE
EXISTING LIGHT POLES
EXISTING SEWER TO BE DEMOLISHED
EXISTING WATER TO BE DEMOLISHED
EXISTING STORM TO BE DEMOLISHED
EXISTING UNDERGROUND ELECTRICAL TO BE DEMOLISHED
EXISTING GAS TO BE DEMOLISHED
EXISTING TELEPHONE TO BE DEMOLISHED
EXISTING OVERHEAD ELECTRIC TO BE DEMOLISHED
EXISTING LANDSCAPE TO BE REMOVED (SEE LANDSCAPE PLANS FOR DETAILS)
EXISTING LIGHT POLES TO BE REMOVED (SEE PHOTOMETRIC PLANS FOR DETAILS)
LIMITS OF DEMOLITION REMOVE EXIST. CONCRETE, ASPHALT, AND OTHER IMPROVEMENTS
MILL AND RESURFACE
REMOVE EXISTING LANDSCAPE
EXISTING ELEVATION

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COLLIER CAR CLUB
PREPARED FOR
DLR GROUP, INC.
FLORIDA
DELRAY BEACH

DEMOLITION PLAN

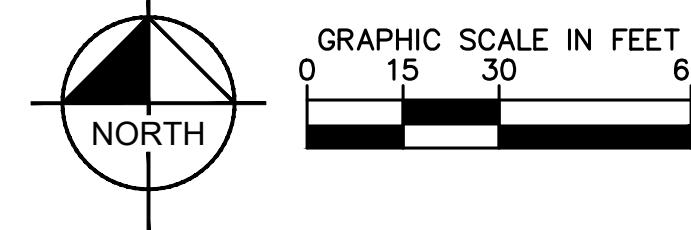
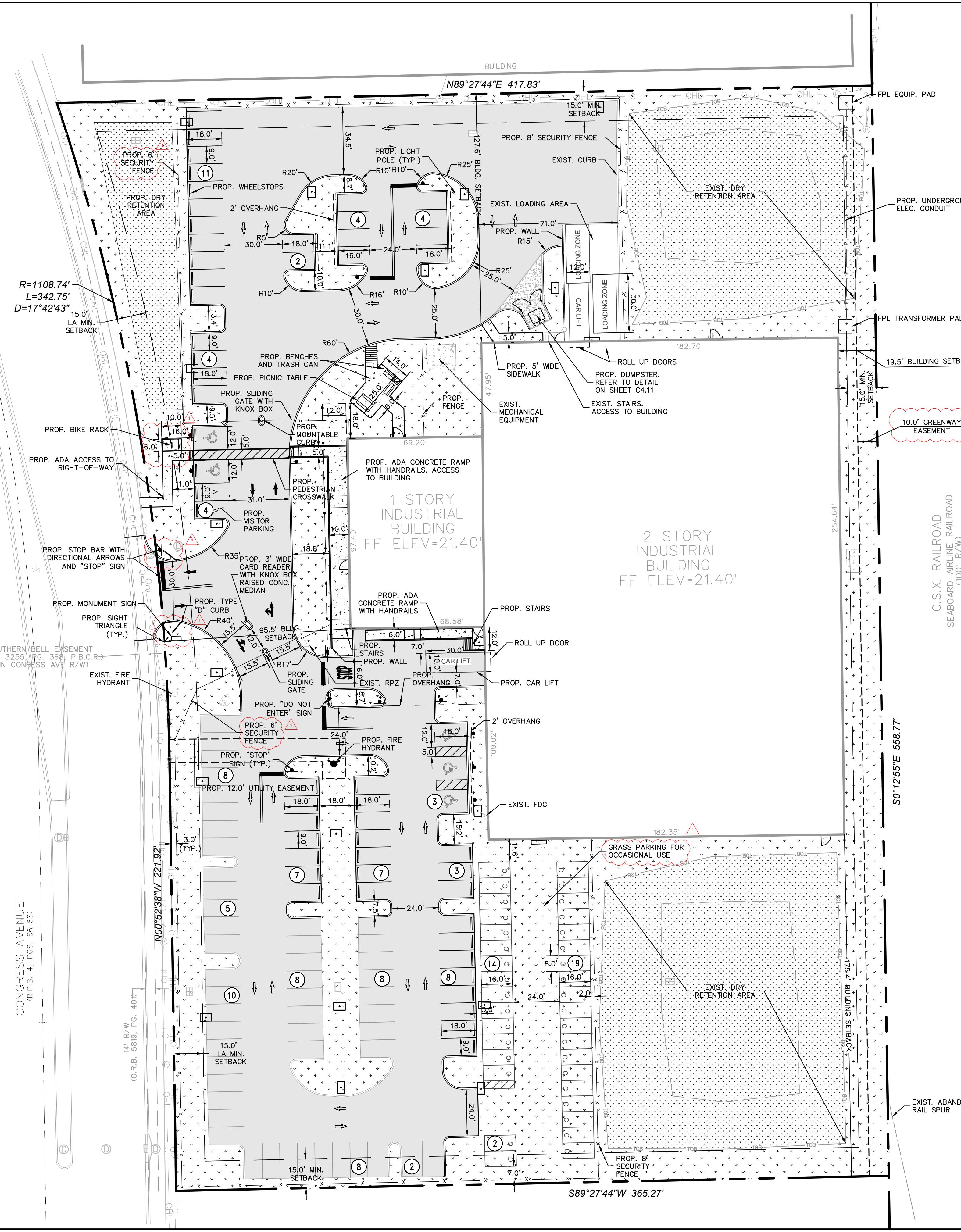
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SCALE AS SHOWN
DESIGNED BY YXY
DRAWN BY YXY
CHEMED BY JAW
DATE: -----

Sheet Number C2.00

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WWW.KIMLEY-HORN.COM
CA 00000696

REVISIONS
DATE BY
02/15/19 JT



LEGEND

HORIZONTAL CONTROL NOTES

1. ALL CURBING IS TYPE "D" UNLESS OTHERWISE STATED.
2. TYPE "D" CURB SHALL BE CONSTRUCTED PER FDOT INDEX. ALL TYPE "D" CURB SHALL HAVE A 3' STRAIGHT TRANSITION AT THE BEGINNING AND ENDING POINTS WHEN NOT CONNECTING TO TYPE "F" CURB AND GUTTER.
3. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB FOR TYPE "D" CURB OR EDGE OF PAVEMENT FOR NO CURB, UNLESS OTHERWISE NOTED.
4. ALL CURB RAMPS AND SIDEWALKS ENTERING PARKING OR TRAVEL WAYS SHALL HAVE DETECTABLE WARNING SURFACES 2' DEEP AND THE WIDTH OF THE SIDEWALK. REFER TO THE LATEST FDOT DESIGN STANDARDS INDEX.
5. ALL STOP BARS AND CROSSWALKS SHALL BE PAINT.
6. REFER TO LANDSCAPE PLANS FOR PLANTING AND DETAILS.
7. ALL PROPOSED IMPROVEMENTS SHALL BE IN COMPLIANCE WITH THE FLORIDA FIRE PREVENTION CODE 6TH EDITION – FLORIDA SPECIFIC NFPA 1 FIRE CODE, 2015 EDITION AND FLORIDA SPECIFIC NFPA 101 LIFE SAFETY CODE, 2015 EDITION.
8. SECURITY FENCE SHALL BE METAL FENCE WITH MAX 26" SQUARE COLUMNS, SPACED 8'-10' O.C.

PARCEL INFORMATION

COLLIER CAR CLUB
777 S. CONGRESS AVE., DELRAY BEACH, FL 33445
12-43-46-19-00-000-1060
MIXED RESIDENTIAL, OFFICE, AND COMMERCIAL (MROC)
CMU (CONGRESS AVE MIXED USE)
SPECIAL ACTIVITIES DISTRICT (SAD)
COMMUNITY PANEL 12099C0979F (ZONE X) (NO BFE)

PROJECT AREAS

	EXISTING:		PROPOSED:	
TOTAL AREA	209,978	100.0%	209,978	100.0%
IMPERVIOUS TOTAL	119,917	57.1%	119,192	56.8%
PAVEMENT	66,674	31.8%	65,950	31.4%
BUILDING FOOTPRINT	53,243	25.4%	53,243	25.4%
PERVIOUS TOTAL	90,062	42.9%	90,786	43.2%
OPEN SPACE (25% MIN.)	90,062	42.9%	82,161	39.1%
GRASS PARKING	N/A	N/A	8,625	4.1%
LOT COVERAGE (75% MAX.)	119,917	57.1%	119,192	56.8%

19,517 PARKIN

BUILDING:	RATIO:	REQUIRED:
OFFICE (FIRST 3,000 SF)	3,000	4 SPACES PER 1,000SF
OFFICE (POST 3,000 SF)	3,350	3.5 SPACES PER 1,000SF
VEHICLE STORAGE	240 CARS	0.25 SPACES PER BAY
TOTAL REQUIRED		84
PARKING PROVIDED		
EMPLOYEE/CUSTOMER/SERVICE PARKING		102
COMPACT/GRASS PARKING		35
ADA PARKING (PARKING REQUIRED = 5)		5
TOTAL PROVIDED		142

LOADING ZONE

CODE REQUIREMENT:		PROVIDED:
BUILDING USE: OFFICE	20,000 TO 100,000 SF = TWO BERTHS	TWO BERTHS
LOADING SPACE WIDTH	12'	12'
LOADING SPACE LENGTH	30'	30'
VERTICAL CLEARANCE	12'	N/A

DEVELOPMENT STANDARDS (SEC. 4.3.4)

	CODE REQUIREMENT:	PROVIDED:
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E 0' MINIMUM 565'

WIDTH	0' MINIMUM	559'
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0' MINIMUM	365'
2 ACRES MINIMUM	100 ACRES

SITE AREA	0 ACRE MINIMUM	4.82 ACRES
HEIGHT	18' MAXIMUM	26' 6"

48' MAXIMUM	26' 6"
N/A	53 243 SF

BUILDING AREA	N/A	55,245 SF
BUILDING SETBACKS		

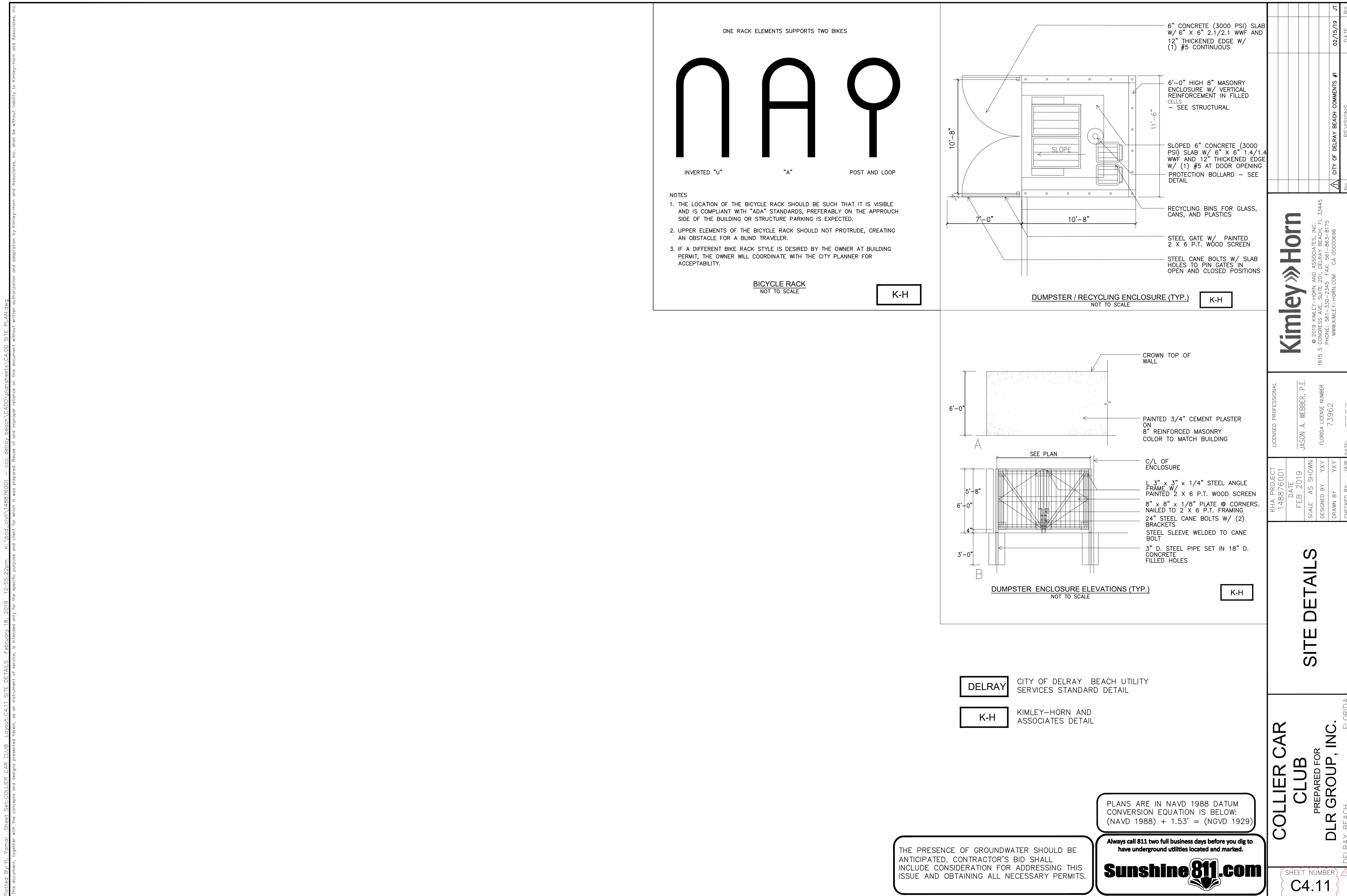
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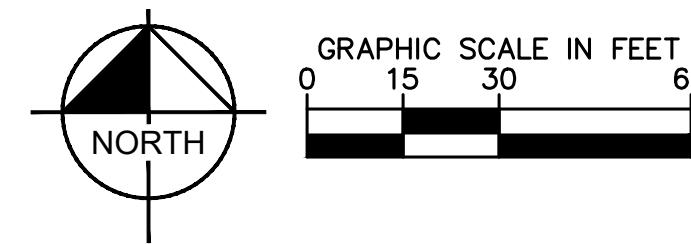
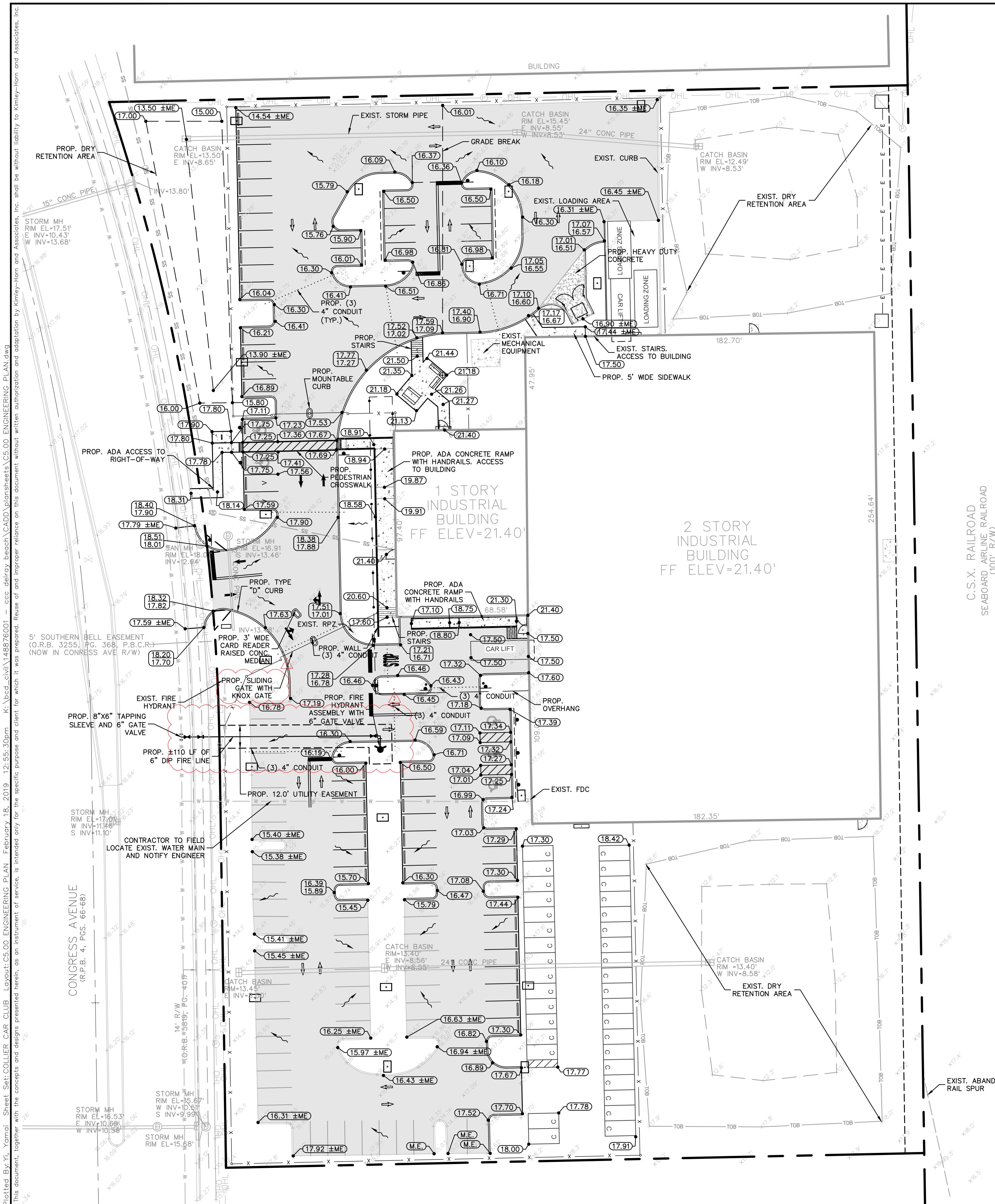
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**COLLIER CAR
CLUB** PREPARED FOR
DLR GROUP, INC.





PAVING, GRADING AND DRAINAGE NOTES

1. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0%. THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMPS) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMPS SHALL NOT EXCEED 1V:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
2. ALL RAMPS SHALL COMPLY WITH FDOT INDEX 522-002.
3. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
4. PROPOSED ELEVATIONS OF CURB REPRESENT FACE OF CURB OR EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
5. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
6. MATCH EXISTING GRADES AT TIE-IN LOCATIONS AT PROPERTY LINES.
7. TOP OF LANDSCAPED OR SODDED AREA AGAINST BUILDING SHALL BE MIN. 4" BELOW FINISH FLOOR ELEVATION.

UTILITY NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL NECESSARY PIPE AND FITTINGS TO TRANSITION PIPE MATERIALS WHEN REQUIRED AND TO CONNECT TO BUILDING PLUMBING.
2. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES WHEN CONSTRUCTING NEW UTILITIES.
3. ALL MANHOLES, VALVES, CLEANOUTS AND OTHER SUCH BOXES IN PAVEMENT OR SIDEWALKS SHALL BE SET FLUSH WITH PAVEMENT TO MATCH THE PROPOSED SLOPE AND SHALL BE H-20 TRAFFIC RATED.
4. ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER, OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS.
5. NO PROPOSED IMPROVEMENTS, BUILDINGS OR ANY KIND OF CONSTRUCTION CAN BE PLACED ON OR WITHIN ANY WATER, SEWER, OR DRAINAGE EASEMENTS, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.
6. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER, SEWER, OR DRAINAGE FACILITIES, UNLESS APPROVED BY THE CITY OF DELRAY BEACH CITY ENGINEER.
7. ALL WATER MAIN (WM) SHALL BE PVC C-900 DR-18 UNLESS OTHERWISE NOTED.
8. ALL FIRE MAIN (FM) SHALL BE DIP WITH ALL JOINTS RESTRAINED WITH MEGALUGS UNLESS OTHERWISE NOTED. ALL FIRE MAIN SHALL BE LAID AT 36" MIN COVER. ALL FIRE RELATED CONSTRUCTION SHALL FOLLOW THE FLORIDA FIRE PREVENTION CODE 5TH EDITION - FLORIDA SPECIFIC NFPA 1, FIRE CODE, 2012 EDITION AND FLORIDA SPECIFIC NFPA 101, LIFE SAFETY CODE, 2012 EDITION.
9. ALL DUCTILE IRON PIPE (DIP) SHALL BE CLASS 350 UNLESS OTHERWISE NOTED. ALL DIP SHALL BE MARKED PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) STANDARDS.
10. ALL NEW FIRE HYDRANTS SHALL HAVE "OUT OF SERVICE" SIGNS AFFIXED AT TIME OF INSTALLATION. SIGNS SHALL REMAIN IN PLACE UNTIL THE WATER SYSTEM IS CLEARED FOR USE.
11. ALL WATER MAIN SHALL HAVE A MINIMUM 36" COVER OVER THE TOP OF THE PIPE UNLESS OTHERWISE NOTED. WATER AND FIRE MAINS SHALL HAVE MIN. 6" VERTICAL SEPARATION FROM EACH OTHER.
12. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET MUST BE PROVIDED BETWEEN WATER MAINS AND STORM OR SANITARY SEWERS. ALL FITTINGS FOR WATER MAIN AND FIRE MAIN SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS UNLESS OTHERWISE NOTED.
13. PIPE DEFLECTION OF WATER MAIN AND FIRE MAIN SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
14. PROPOSED WATER IMPROVEMENTS IN PRIVATE PROPERTY SHALL MEET PALM BEACH COUNTY HEALTH DEPARTMENT SEPARATION REQUIREMENTS, THESE CONFLICTS WILL BE ADDRESSED DURING CONSTRUCTION AND WON'T AFFECT THE PUBLIC SAFETY.
15. CONTRACTOR SHALL COORDINATE UNDERGROUND ELECTRIC SERVICE CONNECTION WITH FPL FOR CONDUIT SIZE AND BURIED DEPTH REQUIREMENT.
16. THE CITY OF DELRAY BEACH UTILITIES DIVISION MUST BE GIVEN AT LEAST 48 HOURS NOTIFICATION PRIOR TO ANY SHUT-DOWN AND/OR REMOVAL OF EXISTING WATER MAIN OR SANITARY SEWER LINES.
17. CITY MAINTAINED UTILITIES WILL NEED TO BE TESTED AND PROTECTED (IE. PAVED AT LEAST UP TO FIRST LIFT, IF NOT ROADWAY) PRIOR TO ISSUANCE OF CERTIFICATION OF OCCUPANCY.
18. LEAD FREE BRASS WATER WORKS PRODUCTS SHALL MEET THE REQUIREMENT OF ASNI/AWWA C808 AND THE MAXIMUM LEAD CONTENT S.3872 AND NSF 61 ANNEX G. THE MANUFACTURER'S DESIGNATION AS A LEAD FREE PRODUCT SHALL BE PERMANENTLY STAMPED OR CAST INTO THE PRODUCT'S BODY. EFFECTIVE JANUARY 1, 2013, ONLY LEAD FREE BRASS WATER WORKS PRODUCTS SHALL BE INSTALLED IN CONTACT WITH POTABLE WATER.
19. ALL PROPOSED BACKFLOW PREVENTERS AND DOUBLE DETECTOR CHECK VALVES SHALL BE USC CERTIFIED AND LEAD FREE.
20. ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD 1.1 & LD 1.2.
21. ALL PROPOSED IMPROVEMENTS SHALL BE IN COMPLIANCE WITH THE FLORIDA FIRE PREVENTION CODE 6TH EDITION - FLORIDA SPECIFIC NFPA 1 FIRE CODE, 2015 EDITION AND FLORIDA SPECIFIC NFPA 101 LIFE SAFETY CODE, 2015 EDITION.

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SHEET NUMBER
C5.00

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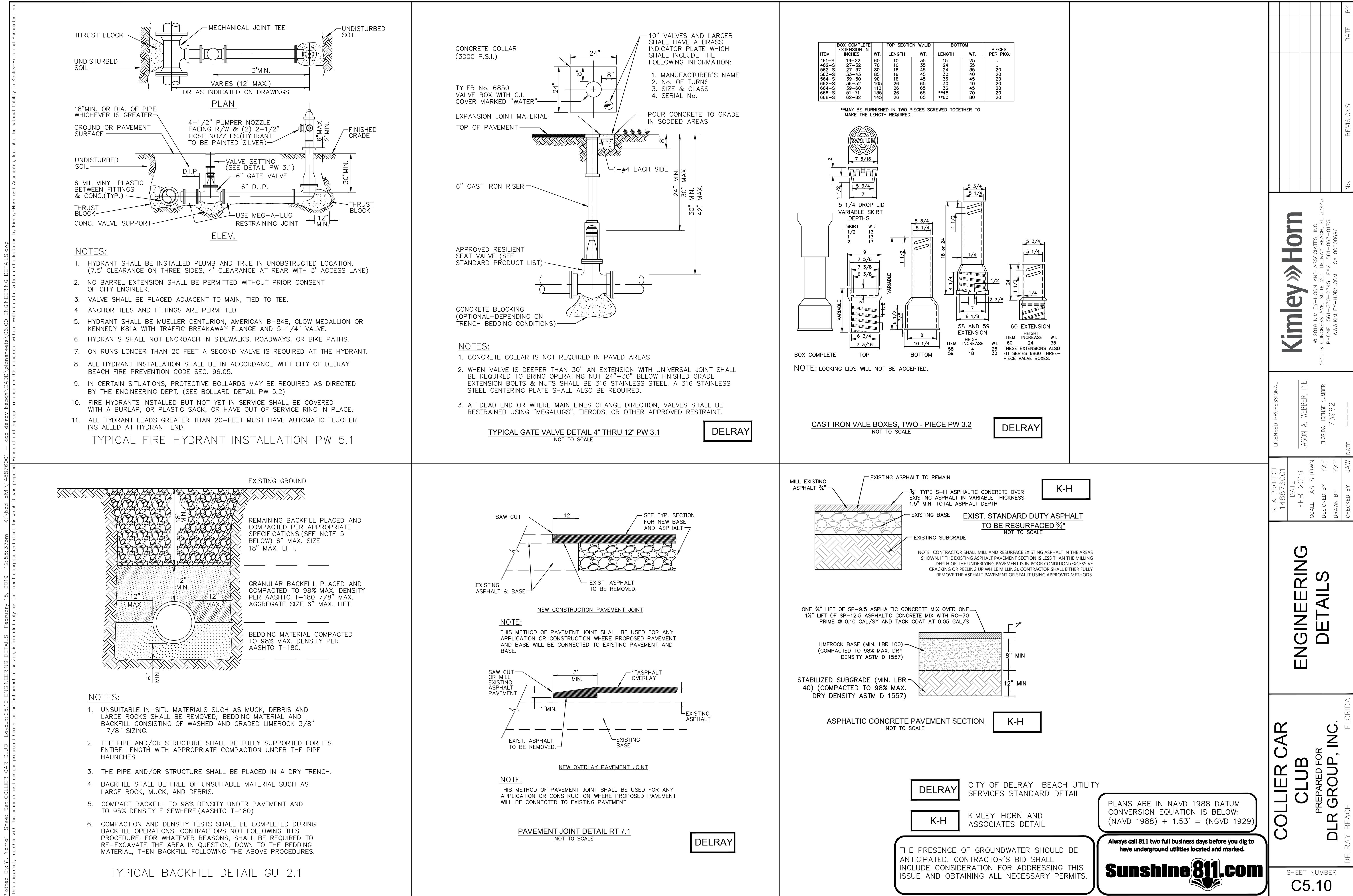
FLORIDA
DELRAY BEACH

KHA PROJECT		LICENSED PROFESSIONAL	KHA PROJECT	
148876001		JASON A. WEBER, P.E.	148876001	
DATE	FEB 2019	SCALE AS SHOWN	DATE	FEB 2019
DESIGNED BY	YXY	FLORIDA LICENSE NUMBER	DESIGNED BY	YXY
DRAWN BY		73962	DRAWN BY	
CHEMED BY	JAW	DATE:	CHEMED BY	JAW

REVISIONS	DATE BY
NO.	NO.

Kimley»Horn

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1615 S CONGRESS AVE, SUITE 201, DELRAY BEACH, FL 33445
PHONE: 561-530-2355; FAX: 561-865-8175
WWW.KIMLEYHORN.COM



PRESSURE PIPE NOTES:

1. THERE SHALL BE 30" MINIMUM COVER FROM FINISHED GRADE TO TOP OF PIPE. FOR PIPE SIZE 10" AND LARGER THERE SHALL BE 36" MINIMUM COVER.
- 2.a. DUCTILE IRON PIPE (DIP) FOR FORCE MAINS SHALL BE CLASS 350 EPOXY LINED IN ACCORDANCE WITH AWWA C550.
- 2.b. DUCTILE IRON PIPE (DIP) FOR WATER MAINS SHALL BE CLASS 350 IN ACCORDANCE WITH AWWA C151 (ANSI A21.51), AND SHALL HAVE AN INTERNAL LINING OF CEMENT MORTAR IN ACCORDANCE WITH AWWA C104 / A21.4.
3. C-900 PVC PRESSURE PIPE MAY BE USED IN LIEU OF DIP WATER MAIN METAL TAPE ABOVE C-900
4. ALL FITTINGS SHALL BE CLASS 350 DUCTILE IRON WITH MECHANICAL JOINTS AND EPOXY LINING.
5. WATER MAIN AND SEWAGE FORCE MAIN VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT WEDGE GATE VALVES IN ACCORDANCE WITH AWWA C509. WATER MAIN VALVES LARGER THAN 12 INCHES SHALL BE BUTTERFLY VALVES IN ACCORDANCE WITH AWWA C504. SEWAGE FORCE MAIN VALVES LARGER THAN 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES IN ACCORDANCE WITH AWWA C515
6. ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTION MUST COMPLY WITH CITY AND HEALTH DEPARTMENT STANDARDS.
7. WATER AND FORCE MAINS SHALL BE PIGGED, AS WELL AS, PRESSURE TESTED FOR A PERIOD OF NOT LESS THAN TWO HOURS AT 150 PSI IN ACCORDANCE WITH ANSI/AWWA C600 LATEST STANDARDS. ALLOWABLE LEAKAGE SHALL BE DETERMINED AS FOLLOWS:

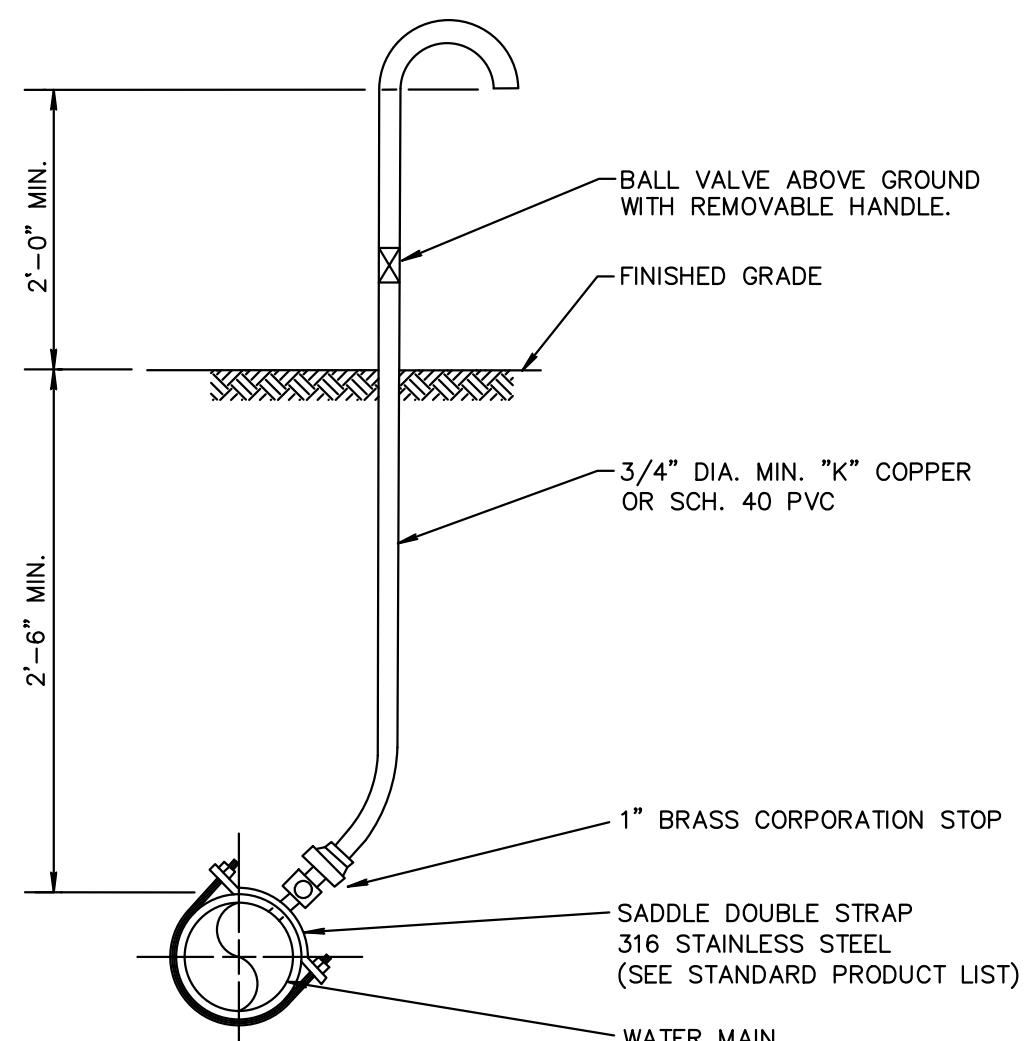
$$L = \frac{(S)(D)(P)^{0.50}}{148,000}$$

WHERE:

L = ALLOWABLE LEAKAGE (GALLONS PER HOUR)
S = PIPE LENGTH (FEET)
D = NOMINAL DIAMETER OF PIPE (INCHES)
P = AVERAGE TEST PRESSURE (PSI)

8. RESTRAINTS SHALL BE PROVIDED AT ALL FITTINGS AS SHOWN ON PP2.1
9. PRIOR TO ANY TESTING UNDER FUTURE PAVEMENT, ROCK SHALL BE FINISHED & PRIMED OR 1ST LIFT OF ASPHALT PLACED.
10. PIG SIZE SHALL BE PIPE DIA. PLUS 2" OR NEXT LARGER DIA.
11. NO PROPOSED STRUCTURES SHALL BE INSTALLED WITHIN A HORIZONTAL DISTANCE OF 10-FEET FROM ANY EXISTING OR PROPOSED WATER MAINS.
12. LINE STOPPED SHALL BE INSTALLED A MINIMUM OF 3 PIPE LENGTHS FROM LOCATION OF PIPE REMOVED OTHERWISE, PROVIDE NECESSARY JOIN RESTRAINTS

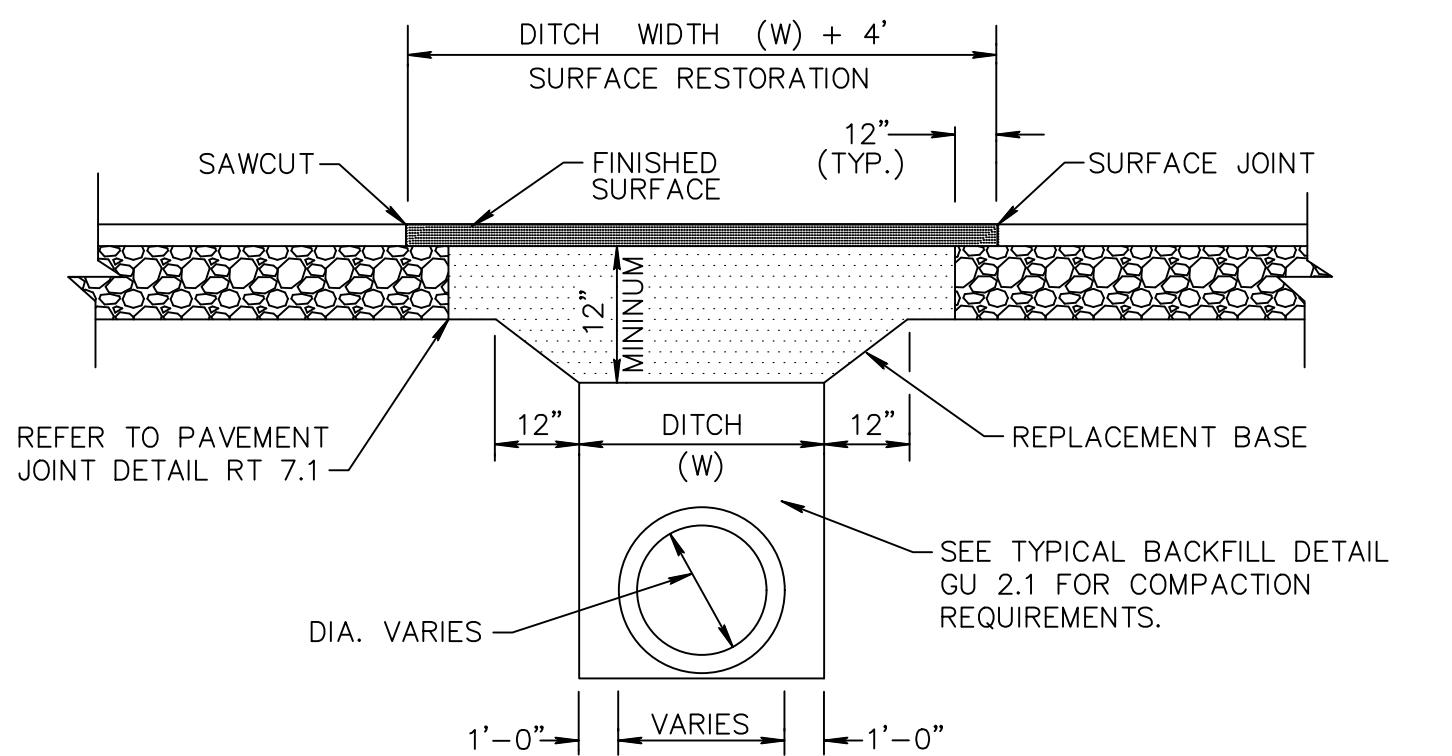
PRESSURE PIPE NOTES PP1.1
NOT TO SCALE



NOTES:

1. SAMPLE POINT SHOULD BE AT SERVICE LINE OR FIRE HYDRANT IF POSSIBLE.
2. IF SAMPLE POINT IS NOT AT SERVICE LINE OR FIRE HYDRANT, CORP. STOP SHALL BE SHUT OFF AT MAIN AND ALL TUBING SHALL BE REMOVED, AND CORP. STOP SHALL HAVE A BRASS PLUG OR CAP INSTALLED AFTER RELEASE OF WATER MAIN BY PALM BEACH COUNTY HEALTH DEPARTMENT.
3. IF AT ALL POSSIBLE SAMPLE POINT SHALL NOT BE LOCATED IN A TRAFFIC AREA.
4. SAMPLE POINTS SHALL KEEP RUNNING UNTIL HEALTH DEPT. RELEASE AND ALL MAIN LINE VALVES ARE OPENED.

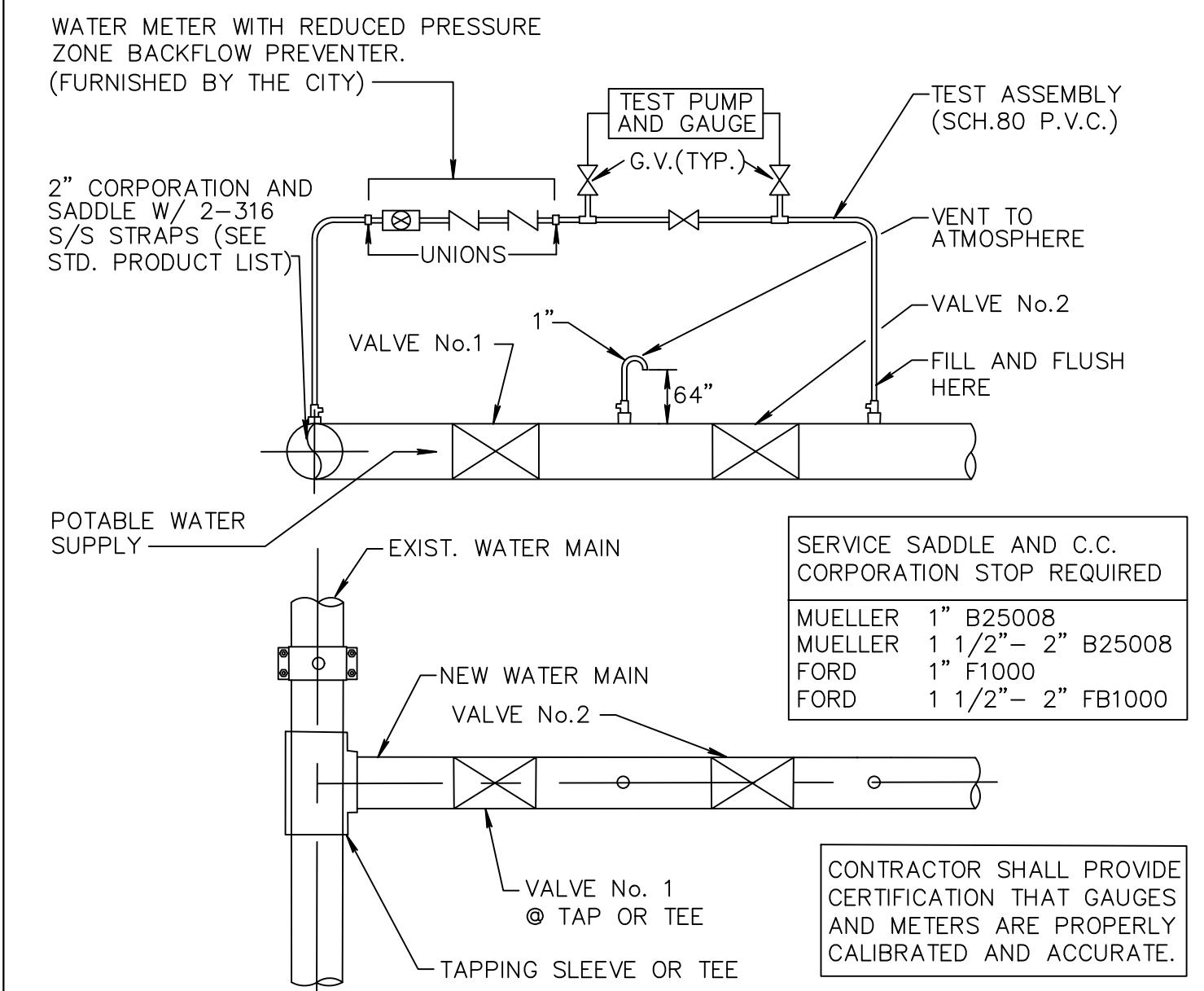
TYPICAL SAMPLE POINT PW 7.1
NOT TO SCALE



1. REPLACEMENT BASE TO BE AT MIN. 12" THICK.
- 2a. BASE MATERIAL SHALL BE PLACED IN TWO LIFTS AND EACH LIFT COMPAKTED TO 98% MAXIMUM DENSITY PER AASHTO T-180 (MAX. LIFT THICKNESS = 6").
- 2b. 12" EXCAVATABLE FLOWABLE FILL MIN. 100 P.S.I. MAY BE USED IN LIEU OF 12" BASE.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. ALL DISTURBED PAVEMENT MARKINGS SHALL BE RESTORED IN ACCORDANCE WITH CITY STANDARDS.
5. SURFACE MATERIAL SHALL BE F.D.O.T. TYPE S-I OR S-III ASPHALTIC CONC. (MIN. THICKNESS 1 1/2").
6. ANY PAVT. CUTS SHALL BE COLD PATCHED AT END OF EACH WORKING DAY TO FACILITATE UNHINDERED TRAFFIC FLOW.

PAVEMENT REPAIR DETAIL GU 1.1
NOT TO SCALE

DELRAY



NOTES:

1. BOTH VALVES SHALL BE KEPT CLOSED UNTIL FILLING, FLUSHING, AND BACTERIOLOGICAL TESTING IS COMPLETED AND APPROVED.
2. GAUGE AND RISER TO BE REMOVED AFTER PRESSURE TEST.
3. CITY SHALL BE NOTIFIED BEFORE FILLING AND FLUSHING.
4. AFTER RELEASE FROM THE HEALTH DEPARTMENT, BOTH VALVES TO BE LEFT OPEN WITH VALVE BOX INSTALLED ON BOTH VALVES.
5. PRESSURE TEST PUMP MAY CONNECT TO SERVICE LINE, FIRE HYDRANTS OR BLOWOFF. NO EXTRA TAPS ARE PERMITTED SOLELY FOR TESTING PURPOSES UNLESS PRECEDING ARE NOT PRESENT IN TEST SECTION.
6. TAPPING SADDLE OR SLEEVE (PER CURRENT CITY PRODUCT LIST) IS REQUIRED ON EXISTING MAIN.
7. SETUP FOR ALL DOUBLE VALVE CONNECTIONS TO INCLUDE ATMOSPHERE VENTS AS SHOWN ABOVE.
8. OUTLET ON VENT TO ATMOSPHERE A MINIMUM 24" ABOVE EXISTING GRADE.

FILL & FLUSH DETAIL PW 1.1

DELRAY

DELRAY CITY OF DELRAY BEACH UTILITY SERVICES STANDARD DETAIL

K-H KIMLEY-HORN AND ASSOCIATES DETAIL

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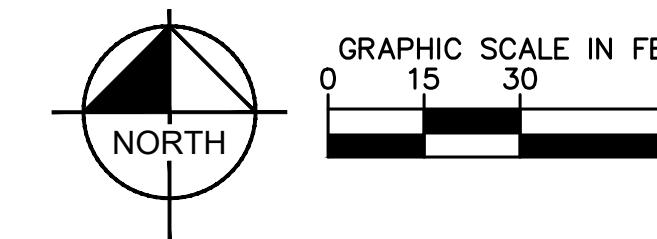
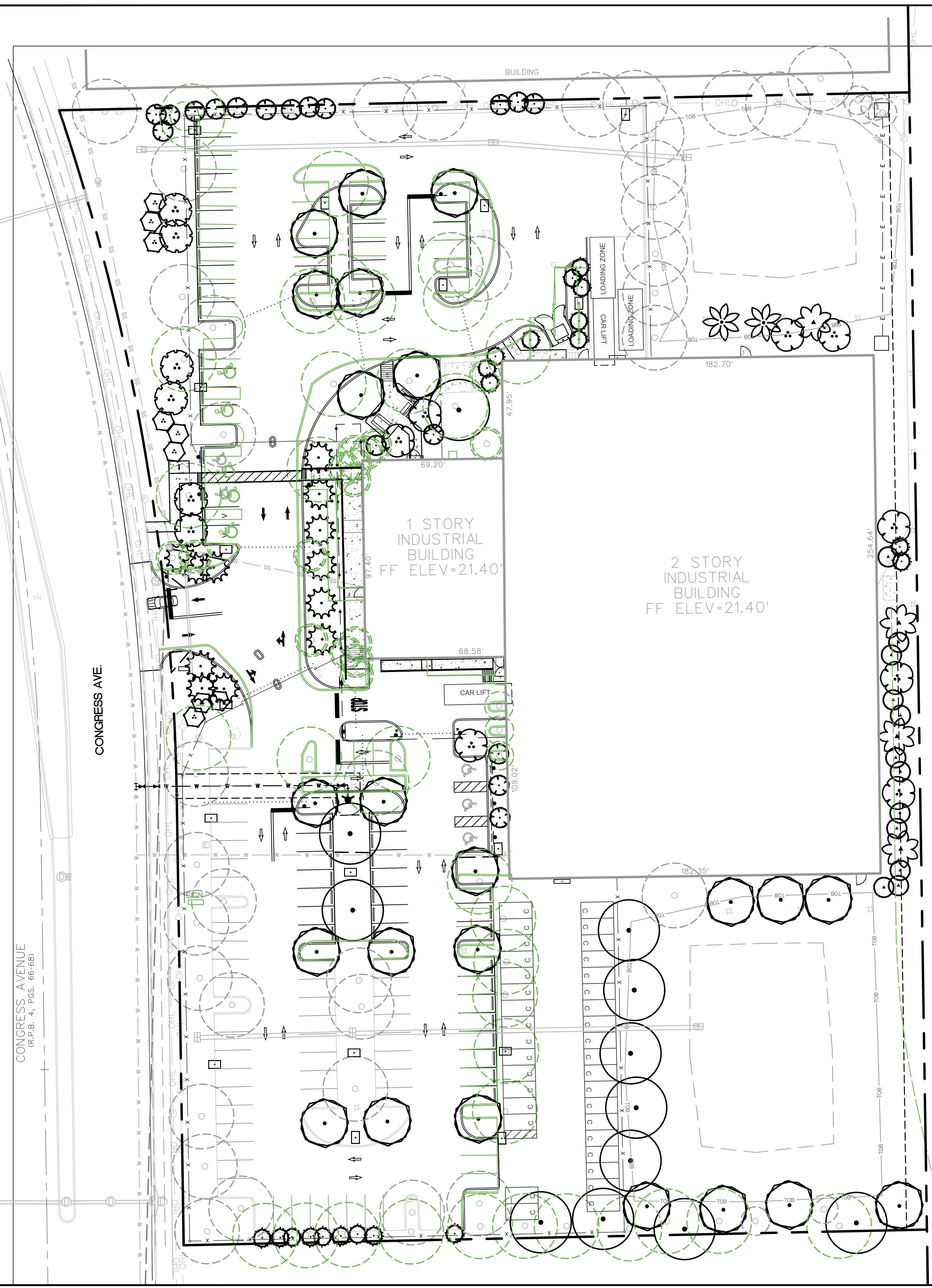
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COLLIER CAR CLUB
PREPARED FOR
DLR GROUP, INC.
FLORIDA
DELRAY BEACH
SHEET NUMBER
C.5.11

Kimley»Horn

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1615 S CONGRESS AVE, SUITE 100, DELRAY BEACH, FL 33445
PHONE: 561-530-2355 FAX: 561-665-8175
WWW.KIMLEY-HORN.COM
CA 00000696

REVISIONS	DATE BY



A graphic scale in feet, marked from 0 to 30. The scale is divided into three major segments, each 10 units long. The first segment is further divided into two 5-unit segments, with the 15-unit mark being the midpoint of the second 5-unit segment. The scale is labeled "GRAPHIC SCALE IN FEET" at the top and has numerical markings at 0, 15, and 30.

LEGEND

— — — — —	PROPERTY LINE
— SS — SS —	PROPOSED SANITARY PIPE
(S)	PROPOSED SANITARY MANHOLE
— F — F —	PROPOSED FIRE LINE PIPE
— W — W —	PROPOSED WATER LINE PIPE
	PROPOSED FIRE HYDRANT
	PROPOSED TREE (SEE LANDSCAPE PLAN FOR DETAILS)
— SS — SS —	EXISTING SANITARY PIPE
(S)	EXISTING SANITARY MANHOLE
— F — F —	EXISTING FIRE LINE PIPE
— W — W —	EXISTING WATER PIPE
	EXISTING FIRE HYDRANT
	EXISTING FIRE DEPARTMENT CONNECTION
— RWM — RWM —	EXISTING WATER PIPE
— IRM — IRM —	EXISTING IRRIGATION MAIN PIPE
— FO — FO —	EXISTING FIBER OPTIC LINE
— OHL — OHL —	EXISTING OVERHEAD LINE
— STRM —	EXISTING STORM PIPE (SEE ENGINEERING PLAN FOR DETAILS)
	EXISTING STORM AREA INLET
	EXISTING STORM CURB INLET
(D)	EXISTING STORM MANHOLE
	EXISTING TREE TO REMAIN
— — — — —	EXISTING CONDITIONS TO BE REMOVED
	EXISTING TREE TO BE REMOVED

Kimley-Horn and Associates, Inc.

DATE	FEB 2019		JASON
SCALE	AS SHOWN		
DESIGNED BY	YXXY		FLORIDA
RAWN BY	YXXY		
CHECKED BY		JAW	DATE:

COMPOSITE PLAN

CLUB
PREPARED FOR
DLR GROUP, INC.
FLORIDA BEACH

SHEET NUMBER
C6.00

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