

# SITE CONSTRUCTION PLANS

FOR



# TACO BELL

# TRINITY

# PASCO COUNTY, FLORIDA

## INDEX

SHEET	TITLE	DATE
C1	COVER SHEET	3-24-14
C2	CONSTRUCTION & TESTING NOTES	3-24-14
C3	SITE PLAN	3-24-14
C4	SIGNAGE & PAVEMENT MARKING PLAN	3-24-14
C5	UTILITY PLAN	3-24-14
C6	GRADING, PAVING & DRAINAGE PLAN	3-24-14
C7	CONSTRUCTION DETAILS	3-24-14
C8	TACO BELL DUMPSTER ENCLOSURE DETAILS	3-24-14
C9	STORM SEWER & EROSION CONTROL DETAILS	3-24-14
C10	UTILITY DETAILS	3-24-14
C11	UTILITY DETAILS	3-24-14
L1	LANDSCAPE PLAN	3-24-14
IR1	IRRIGATION PLAN	3-24-14
IR2	IRRIGATION DETAILS	3-24-14
P1	PHOTOMETRIC PLAN SURVEY	2-18-14

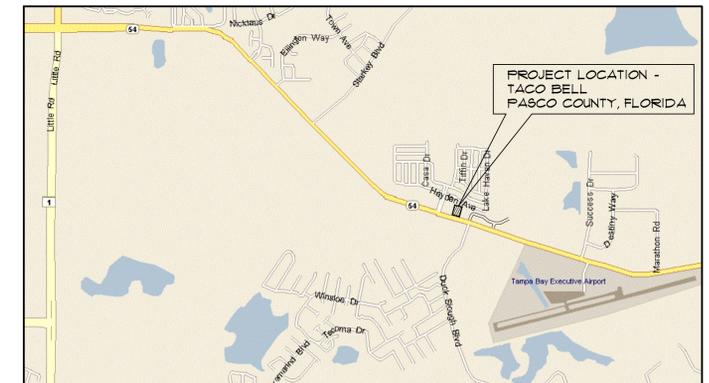
### TRINITY TACO BELL PARCEL, SURVEYED PARCEL

A PARCEL OF LAND LYING IN A PORTION OF SECTION 30, TOWNSHIP 26 SOUTH, RANGE 17 EAST, PASCO COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF SECTION 30, TOWNSHIP 26 SOUTH, RANGE 17 EAST, PASCO COUNTY, FLORIDA; THENCE SOUTH 00°16'17" WEST, ALONG THE EASTERLY BOUNDARY LINE OF SAID SECTION 30, A DISTANCE OF 3,108.73 FEET; THENCE NORTH 71°57'42" WEST, DEPARTING SAID EASTERLY BOUNDARY LINE OF SAID SECTION 30, A DISTANCE OF 650.12 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED PARCEL; THENCE SOUTH 18°02'18" WEST, A DISTANCE OF 250.00 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 54; THENCE NORTH 71°57'42" WEST, ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 174.24 FEET; THENCE NORTH 18°02'18" EAST, DEPARTING SAID NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 54, A DISTANCE OF 250.00 FEET; THENCE SOUTH 71°57'42" EAST, A DISTANCE OF 174.24 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 43,560.0 SQUARE FEET OR 1.00 ACRES, MORE OR LESS.

### LEGAL DESCRIPTION



### LOCATION MAP

SECTION 30, TOWNSHIP 26 SOUTH, RANGE 17 EAST  
N.T.S.



### SURVEYOR:

DAVID FERRARO, PLS  
FLD&E SURVEYING  
4519 GEORGE ROAD  
SUITE 130  
TAMPA, FLORIDA 33634  
TELEPHONE: (813) 886-9623  
EMAIL: dferraro@fldesurveying.com



### FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

CERTIFICATE OF AUTHORIZATION: EB 5804  
4519 GEORGE ROAD, SUITE 130  
TAMPA, FLORIDA 33634  
PHONE: (813) 880-9106  
FAX: (813) 880-9055

EMAIL: msullivan@flaengineering.com

### OWNER/APPLICANT:

JEM RESTAURANT GROUP OF FLORIDA  
TWO WHARFSIDE STREET, SUITE 2-0  
CHARLESTON, SC 29401  
TELEPHONE: (843) 958-8660  
FAX: (843) 958-8455  
EMAIL: warren@jemrestaurants.com

SHEET C1  
E13-030.07

MARK SULLIVAN, P.E.  
PROFESSIONAL ENGINEER  
NO. 41227

# CONSTRUCTION NOTES

## GENERAL NOTES :

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS WORK, PRIOR TO CONSTRUCTION.
2. PRIOR TO THE INITIATION OF SITE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITIES INCLUDING GAS, WATER, ELECTRIC, COMMUNICATIONS, CABLE TELEVISION, SANITARY AND STORM SEWERS, ON AND/OR ADJACENT TO THE SITE. REMOVE OR CAP SERVICES AS NECESSARY.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SUNSHINE" AT 1-800-432-4770, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO ARRANGE FOR FIELD LOCATIONS OF BURIED UTILITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUB-CONTRACTORS, AS CALLED FOR IN THESE CONTRACT DOCUMENTS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSPECTION/ REQUIREMENTS.

6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ON ALL PRECAST AND MANUFACTURED ITEMS, TO THE OWNERS ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.
7. ALL UTILITY SERVICE STUB-OUTS (WATER, SANITARY SEWER, etc.) ARE TO BE INSTALLED TO WITHIN 5' OF BUILDINGS, UNLESS OTHERWISE NOTED ON PLANS.

8. CONTRACTOR TO COORDINATE WITH THE APPLICABLE ELECTRIC UTILITY SUPPLIER REGARDING ANY NECESSARY RELOCATION(S) OF UNDERGROUND AND/OR OVERHEAD ELECTRIC FACILITIES, AND FOR THE LOCATION AND INSTALLATION OF TRANSFORMER PAD(S) AND ASSOCIATED ELECTRIC FACILITIES.
9. SAFETY:
  - A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HISHER PERSONNEL.
  - B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
  - C. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE "STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL, AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.
  - D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
  - E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.

10. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTORS INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
11. THE GRAPHIC INFORMATION DEPICTED ON THESE PLANS HAS BEEN COMPILED TO PROPORTION BY SCALE AS ACCURATELY AS POSSIBLE. HOWEVER, DUE TO REPRODUCTIVE DISTORTION, REDUCTION, AND/OR REVISIONS, INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION PURPOSES.
12. ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION.
13. ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
14. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH ANY OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS/SUBCONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE HISHER ACTIVITIES ACCORDINGLY.

- AS BUILT:
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION, CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, LOCATIONS OF STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS GRADE BREAK LOCATIONS AND ELEVATIONS FOR PROPOSED CONSTRUCTION. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY (C.O.) PURPOSES WILL BE MADE UNTIL THIS INFORMATION HAS BEEN RECEIVED AND APPROVED BY THE OWNER'S ENGINEER.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS, PRIOR TO ANY SITE CLEARING AND/OR DEMOLITION. REFER TO THE "EROSION CONTROL NOTES" SECTION CONTAINED HEREIN FOR ADDITIONAL REQUIREMENTS.
16. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE TREES IN GOOD CONDITION. NO TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.
17. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, SOODED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.
18. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE, PROVIDED THE MATERIAL IS DETERMINED SUITABLE BY THE OWNERS SOILS TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BE STOCKPILED ON-SITE, AS DIRECTED BY THE OWNER OR OWNERS ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING ANY EXCESS MATERIAL FROM THE SITE.

19. ALL EXISTING DEBRIS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE, BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
20. THE CONTRACTOR IS TO PREPARE THE SITE IN ACCORDANCE WITH THE SOILS REPORT PREPARED BY UNIVERSAL ENGINEERING SCIENCES, DATED 2-24-09 (UES REPORT #0976). A COPY IS INCLUDED IN THE PROJECT MANUAL.

21. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURRED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OWNERS SOILS TESTING COMPANY, AND PROJECT SPECIFICATIONS. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
23. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNERS SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS AND PROJECT SPECIFICATIONS.
24. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.
25. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNERS ENGINEER PRIOR TO ANY ELEVATION CHANGES.
26. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
27. CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.
28. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE SOILS ENGINEER FOR APPROVAL.
29. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AS A JOINT OF CONCRETE AND OTHER MATERIALS (STRUCTURES, OTHER POURED CONCRETE, ETC.)
30. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING COMPLETION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.

## EROSION CONTROL NOTES :

1. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIERS (HAY BALES OR SILTATION CURTAINS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
2. THE CONTRACTOR SHALL LIMIT THE DISCHARGE OF TURBID WATER'S OFF-SITE, OR INTO ON-SITE/OFF-SITE WETLANDS (IF APPLICABLE), TO NO MORE THAN 50 FT/US (JACKSON TURBIDITY UNITS) OR 29 FT/US (NEPHELOMETRIC TURBIDITY UNITS), ABOVE BACKGROUND LEVELS.
3. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
4. CONTRACTOR SHALL INSPECT AND MAINTAIN ON A DAILY BASIS ALL EROSION/SEDIMENTATION CONTROL FACILITIES.
5. THE CONTRACTOR SHALL ENSURE THAT SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.
6. THE PROPOSED EROSION CONTROL BARRIERS MUST BE REMOVED FOLLOWING SOIL STABILIZATION.

## PAVING AND GRADING NOTES :

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURRED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OWNERS SOILS TESTING COMPANY, AND PROJECT SPECIFICATIONS. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNERS SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS AND PROJECT SPECIFICATIONS.
4. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.
5. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNERS ENGINEER PRIOR TO ANY ELEVATION CHANGES.
6. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
7. CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.
8. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE SOILS ENGINEER FOR APPROVAL.
9. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AS A JOINT OF CONCRETE AND OTHER MATERIALS (STRUCTURES, OTHER POURED CONCRETE, ETC.)
10. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING COMPLETION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.

## TESTING AND INSPECTION REQUIREMENTS : (PAVING/GRADING) :

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH THE SOILS REPORT. TESTING SCHEDULE LOCATED ON THESE PLANS, AND PROJECT SPECIFICATIONS. UPON COMPLETION OF WORK THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND THE OWNERS ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
2. A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN-PLACE MATERIALS AS REQUIRED BY THESE PLANS, THE VARIOUS AGENCIES AND PERMIT CONDITIONS. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING.

## DRAINAGE SYSTEM NOTES :

1. STANDARD INDEXES REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS".
2. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.
3. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO CENTER OF DRAINAGE STRUCTURES, WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS, WHICH ARE NOT INCLUDED IN LENGTHS.
4. ALL DRAINAGE STRUCTURE GRATES AND COVERS, EITHER EXISTING OR PROPOSED SHALL BE TRAFFIC RATED FOR H-20 LOADINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY UPGRADES TO EXISTING DRAINAGE STRUCTURES.
5. CONSTRUCTION OF THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE AND ALL DISTURBED AREAS STABILIZED IN ACCORDANCE WITH THE PERMITTED PLANS AND CONDITIONS PRIOR TO ANY OF THE FOLLOWING: ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; INITIATION OF INTENDED USE OF THE INFRASTRUCTURE; OR TRANSFER OF RESPONSIBILITY FOR MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.

## TESTING AND INSPECTION REQUIREMENTS: (DRAINAGE)

1. THE STORM DRAINAGE PIPING SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNERS ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
2. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE REINSPECTED BY THE OWNERS ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.

## SANITARY SYSTEM NOTES :

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS.
2. WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), AT THE CROSSING, (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF TEN (10) FEET BETWEEN ANY TWO (2) JOINTS, IN LEU OF DIP. THE SANITARY SEWER MAY BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF SIX (6) INCHES MUST BE MAINTAINED AT THE CROSSING.

## SANITARY SYSTEM NOTES (CON'T):

- WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF RECLAIMED WATER LINES AND 10 FEET BETWEEN JOINTS, CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.
- ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (i.e. PIPES CENTERED ON THE CROSSING).
- WHERE A PROPOSED PIPE CONFLICTS WITH AN EXISTING PIPE, THE PROPOSED PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED SO AS TO SATISFY THE REQUIREMENTS IDENTIFIED ABOVE.
- WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION, MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMAL HORIZONTAL SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. AN 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS.
- WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION, THE RECLAIMED WATER MAIN SHALL BE TREATED LIKE A SANITARY SEWER, AND A 10 FOOT HORIZONTAL AND 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE RECLAIMED WATER MAIN AND ALL EXISTING OR PROPOSED POTABLE WATER MAINS. NO MINIMUM SEPARATION IS REQUIRED BETWEEN THE RECLAIMED WATER MAIN AND SANITARY SEWERS, OTHER THAN NECESSARY TO ENSURE STRUCTURAL INTEGRITY AND PROTECTION OF THE LINES THEMSELVES.
2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS, IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE.

- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHELF, LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE, AND WATER AND SEWER JOINTS SHALL BE STAGGERED.
- WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES, IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED), WITH A MINIMUM VERTICAL DISTANCE OF SIX (6) INCHES. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (i.e. STAGGERED JOINTS).
- WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES, IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED), WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (i.e. STAGGERED JOINTS).

3. ALL DIP PIPE SHALL BE CLASS 50 OR HIGHER. REFER TO NOTE #9 BELOW FOR ADDITIONAL DIP SPECIFICATIONS. ADEQUATE MEASURES AGAINST CORROSION SHALL BE UTILIZED.
4. ALL WATER MAIN PIPE FITTINGS AND APPURTENANCES SHALL BE INSTALLED TO COMPLY WITH THE PASCO COUNTY WATER, WASTEWATER, AND REUSE SYSTEM CODE.
5. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36 INCHES OF COVER.
6. ALL WATER SERVICE LINES, VALVES AND METERS SHALL BE INSTALLED TO COMPLY WITH THE PASCO COUNTY WASTEWATER AND REUSE SYSTEMS CODE.
7. RESTRAINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS, IN ACCORDACE WITH THE PASCO COUNTY, WATERWATER AND REUSE SYSTEMS CODE.
8. ALL DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C151/A21.51. PIPE SHALL BE FURNISHED IN 18 OR 20 FOOT SECTIONS. PIPE THICKNESS SHALL BE CLASS 51, UNLESS OTHERWISE SPECIFIED.
9. ALL WATER SYSTEM CONSTRUCTION, UP TO AND INCLUDING POINT OF METERING AND BACK FLOW PREVENTION (IF REQUIRED), SHALL BE BUILT ACCORDING TO THE PREVIOUSLY REFERENCED STANDARDS AND SPECIFICATIONS.
10. ALL ON-SITE FIRE HYDRANTS SHALL BE PAINTED WITH HIGH GRADE ENAMEL FEDERAL SAFETY YELLOW (OSHA APPROVED), AND MUST BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB, OTHERWISE BOLLARDS WILL BE REQUIRED FOR PROTECTION ALL FIRE HYDRANTS SHALL COMPLY WITH AWWA STANDARDS C502-90 THEREOF.
11. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE FLUSHING AND DISINFECTIION/CHLORINATION.
12. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE WATER SYSTEM HYDROSTATIC TESTING SHALL BE WITNESSED BY THE PASCO COUNTY INSPECTOR.
13. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND APPLICABLE PASCO COUNTY WATER DEPARTMENT SPECIFICATIONS.
14. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (OR 18" STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE PER ASTM D2421 (SDR 21), PRESSURE CLASS 200 PSI.
15. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE PLACED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN LINES. THE TAPE SHALL BE AT LEAST 5-1/2 MILS THICK, 2 INCH MINIMUM WIDTH, AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED, IN PERMANENT BLACK INK WITH ONE (1) INCH TALL LETTERS, "CAUTION: WATER LINE BURIED BELOW" ON BLUE BACKGROUND. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES, AND SECURED TO EACH VALVE. WHERE OTHER LINES OR SERVICE LINES JOIN THE WATER MAIN, THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.
16. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.
17. FIRE PROTECTION SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY.

11. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE FLUSHING AND DISINFECTIION/CHLORINATION.
12. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE WATER SYSTEM HYDROSTATIC TESTING SHALL BE WITNESSED BY THE PASCO COUNTY INSPECTOR.
13. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND APPLICABLE PASCO COUNTY WATER DEPARTMENT SPECIFICATIONS.
14. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (OR 18" STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE PER ASTM D2421 (SDR 21), PRESSURE CLASS 200 PSI.
15. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE PLACED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN LINES. THE TAPE SHALL BE AT LEAST 5-1/2 MILS THICK, 2 INCH MINIMUM WIDTH, AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED, IN PERMANENT BLACK INK WITH ONE (1) INCH TALL LETTERS, "CAUTION: WATER LINE BURIED BELOW" ON BLUE BACKGROUND. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES, AND SECURED TO EACH VALVE. WHERE OTHER LINES OR SERVICE LINES JOIN THE WATER MAIN, THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.
16. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.
17. FIRE PROTECTION SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY.

11. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE FLUSHING AND DISINFECTIION/CHLORINATION.
12. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE WATER SYSTEM HYDROSTATIC TESTING SHALL BE WITNESSED BY THE PASCO COUNTY INSPECTOR.
13. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND APPLICABLE PASCO COUNTY WATER DEPARTMENT SPECIFICATIONS.
14. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (OR 18" STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE PER ASTM D2421 (SDR 21), PRESSURE CLASS 200 PSI.
15. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE PLACED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN LINES. THE TAPE SHALL BE AT LEAST 5-1/2 MILS THICK, 2 INCH MINIMUM WIDTH, AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED, IN PERMANENT BLACK INK WITH ONE (1) INCH TALL LETTERS, "CAUTION: WATER LINE BURIED BELOW" ON BLUE BACKGROUND. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES, AND SECURED TO EACH VALVE. WHERE OTHER LINES OR SERVICE LINES JOIN THE WATER MAIN, THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.
16. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.
17. FIRE PROTECTION SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY.

11. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE FLUSHING AND DISINFECTIION/CHLORINATION.
12. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE WATER SYSTEM HYDROSTATIC TESTING SHALL BE WITNESSED BY THE PASCO COUNTY INSPECTOR.
13. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND APPLICABLE PASCO COUNTY WATER DEPARTMENT SPECIFICATIONS.
14. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (OR 18" STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE PER ASTM D2421 (SDR 21), PRESSURE CLASS 200 PSI.
15. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE PLACED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN LINES. THE TAPE SHALL BE AT LEAST 5-1/2 MILS THICK, 2 INCH MINIMUM WIDTH, AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED, IN PERMANENT BLACK INK WITH ONE (1) INCH TALL LETTERS, "CAUTION: WATER LINE BURIED BELOW" ON BLUE BACKGROUND. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES, AND SECURED TO EACH VALVE. WHERE OTHER LINES OR SERVICE LINES JOIN THE WATER MAIN, THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.
16. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.
17. FIRE PROTECTION SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY.

11. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE FLUSHING AND DISINFECTIION/CHLORINATION.
12. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE WATER SYSTEM HYDROSTATIC TESTING SHALL BE WITNESSED BY THE PASCO COUNTY INSPECTOR.
13. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND APPLICABLE PASCO COUNTY WATER DEPARTMENT SPECIFICATIONS.
14. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (OR 18" STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE PER ASTM D2421 (SDR 21), PRESSURE CLASS 200 PSI.
15. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE PLACED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN LINES. THE TAPE SHALL BE AT LEAST 5-1/2 MILS THICK, 2 INCH MINIMUM WIDTH, AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED, IN PERMANENT BLACK INK WITH ONE (1) INCH TALL LETTERS, "CAUTION: WATER LINE BURIED BELOW" ON BLUE BACKGROUND. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES, AND SECURED TO EACH VALVE. WHERE OTHER LINES OR SERVICE LINES JOIN THE WATER MAIN, THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.
16. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.
17. FIRE PROTECTION SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY.

11. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE FLUSHING AND DISINFECTIION/CHLORINATION.
12. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE WATER SYSTEM HYDROSTATIC TESTING SHALL BE WITNESSED BY THE PASCO COUNTY INSPECTOR.
13. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND APPLICABLE PASCO COUNTY WATER DEPARTMENT SPECIFICATIONS.
14. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (OR 18" STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE PER ASTM D2421 (SDR 21), PRESSURE CLASS 200 PSI.
15. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE MAIN LINES.
16. FORCE MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE FORCE MAIN.

## TESTING AND INSPECTION REQUIREMENTS: (SANITARY) :

1. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNERS ENGINEER AND APPLICABLE MUNICIPALITY/AGENCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH A TELEVISED INSPECTION (TV) OF THE PROPOSED GRAVITY SEWER LINE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE TV INSPECTION TAPE TO THE ENGINEER, THE OWNER AND THE APPLICABLE MUNICIPALITY/AGENCY.
2. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.
3. ALL FORCE MAINS (IF APPLICABLE) SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

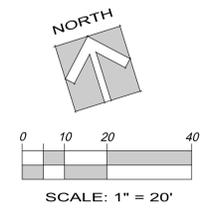
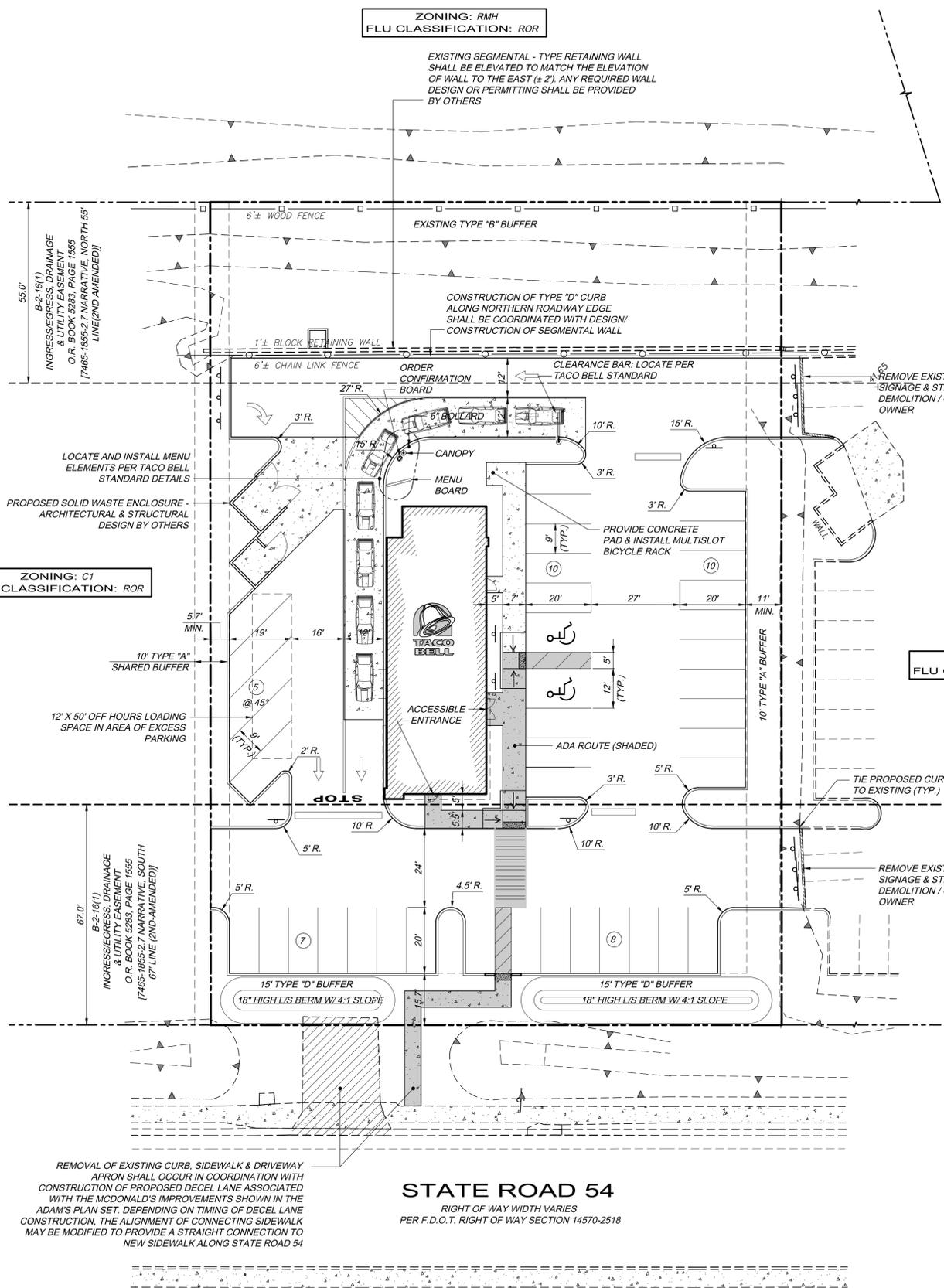
## WATER SYSTEM NOTES :

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS.
- WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), AT THE CROSSING, (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO (2) JOINTS IN LEU OF DIP. THE SANITARY SEWER MAY BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING.
- WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS CENTERED AT THE POINT OF CROSSING, SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.
- ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (i.e. PIPES CENTERED ON THE CROSSING).
- WHERE A PROPOSED PIPE CONFLICTS WITH AN EXISTING PIPE, THE PROPOSED PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED SO AS TO SATISFY THE REQUIREMENTS IDENTIFIED ABOVE.
- WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR PUBLIC ACCESS IRRIGATION, MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF FIVE (5) FEET (CENTER TO CENTER) OR THREE (3) FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. AN 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS.

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS.
- WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), AT THE CROSSING, (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF TEN (10) FEET BETWEEN ANY TWO (2) JOINTS, IN LEU OF DIP. THE SANITARY SEWER MAY BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF SIX (6) INCHES MUST BE MAINTAINED AT THE CROSSING.

## WATER SYSTEM NOTES (CON'T):

- WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION, THE RECLAIMED WATER MAIN SHALL BE TREATED LIKE A SANITARY SEWER, AND A 10-F' HORIZONTAL AND 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE RECLAIMED WATER MAIN AND ALL EXISTING OR PROPOSED POTABLE WATER



**LEGEND**

	PROPERTY LINE
	PROPOSED BUILDING
	EXISTING CONCRETE PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	CONCRETE RAMP
	EXISTING CONCRETE CURB
	PROPOSED FDOT TYPE "D" CURB
	RIGHT-OF-WAY SQUARE FEET
	EDGE OF PAVEMENT
	DETECTABLE WARNING STRIP PER FDOT DESIGN INDEX 304

**SITE DATA:**

PARCEL NUMBER: 30-26-17-0000-00400-0020  
 SITE ADDRESS: 43,560 S.F. OR 1.00 ACRES MORE OR LESS  
 ZONING: C2  
 FUTURE LAND USE DESIGNATION: ROR  
 EXISTING USE: UNDEVELOPED  
 ABUTTING ZONING:  
 NORTH: RMH (ROR)  
 SOUTH: AC/ROW (ROR)  
 EAST: C2 (ROR)  
 WEST: C1 (ROR)

BUILDING HEIGHT: 32'-1" MAX.  
 PROPOSED USE: RESTAURANT WITH DRIVE-THROUGH  
 AUTOMOBILE PARKING:  
 REQUIRED: 1 SPACE / 150 S.F. GFA  
 2,835 S.F. / 150 S.F. = 19 SPACES  
 PROVIDED: STANDARD (9' x 20') = 38 SPACES  
 HANDICAP (12' x 18') = 2 SPACES  
 TOTAL = 40 SPACES  
 STACKING SPACES: 8 REQUIRED.  
 BICYCLE PARKING:  
 REQUIRED: 0.02 SPACES PER REQUIRED AUTOMOBILE PARKING SPACES  
 0.02 x 19 = 0.38 SPACES.  
 PROVIDED: (1) MULTI SLOT BICYCLE RACK

FLOOD ZONE: THE PROPERTY SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE "X" ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, COMMUNITY NUMBER 120230, PANEL NUMBER 0360, SUFFIX D, EFFECTIVE SEPTEMBER 30, 1992.

LANDSCAPE BUFFERING:

YARD	MINIMUM	PROPOSED
NORTH	N/A	15'- TYPE "D"
SOUTH	15'- TYPE "D"	11' MIN. - TYPE "A"
EAST	10'- TYPE "A"	5'- TYPE "A" SHARED (10' TOTAL)
WEST	10'- TYPE "A"	

SITE AREAS:

	EXISTING			PROPOSED		
BUILDING(S):	0 S.F.	0 AC.	0%	2,835 S.F.	0.06 AC.	6%
ASPHALT / CURB:	0 S.F.	0 AC.	0%	21,500 S.F.	0.49 AC.	49%
CONCRETE:	0 S.F.	0 AC.	0%	4,158 S.F.	0.10 AC.	10%
TOTAL IMPERVIOUS:	0 S.F.	0 AC.	0%	28,493 S.F.	0.65 AC.	65%
TOTAL POND:	7,708 S.F.	0.18 AC.	18%	7,708 S.F.	0.18 AC.	18%
TOTAL PERVIOUS:	35,852 S.F.	0.82 AC.	82%	7,359 S.F.	0.17 AC.	17%
TOTAL SITE:	43,560 S.F.	1.00 AC.	100%	43,560 S.F.	1.00 AC.	100%

FLOOR AREA RATIO (FAR): 2,835 S.F. / 43,560 S.F. = 0.065  
 MAXIMUM ALLOWABLE FAR = 0.50

ALL DIMENSIONS SHOWN AT PROPOSED CURBS ARE TO THE ADJACENT EDGE OF PAVEMENT.  
**DIMENSION CLARIFICATION**

ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.  
**SIGNAGE & PAVEMENT MARKING**

- ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51.
- FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
- PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
- PER NFPA-1, 18.3.4.1: CLEARANCES OF 7 1/2 FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4-FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
- GATED ENTRIES REQUIRE A SIREN OPERATING SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.

**PASCO COUNTY STANDARD FIRE PROTECTION NOTES**

**STATE ROAD 54**  
 RIGHT OF WAY WIDTH VARIES PER F.D.O.T. RIGHT OF WAY SECTION 14570-2518

REMOVAL OF EXISTING CURB, SIDEWALK & DRIVEWAY APRON SHALL OCCUR IN COORDINATION WITH CONSTRUCTION OF PROPOSED DECEL LANE ASSOCIATED WITH THE MCDONALD'S IMPROVEMENTS SHOWN IN THE ADAM'S PLAN SET. DEPENDING ON TIMING OF DECEL LANE CONSTRUCTION, THE ALIGNMENT OF CONNECTING SIDEWALK MAY BE MODIFIED TO PROVIDE A STRAIGHT CONNECTION TO NEW SIDEWALK ALONG STATE ROAD 54

INGRESS/EGRESS, DRAINAGE & UTILITY EASEMENT O.R. BOOK 5283, PAGE 1555 [7465-1855-2.7 NARRATIVE, NORTH 65° LINE (2ND AMENDED)]

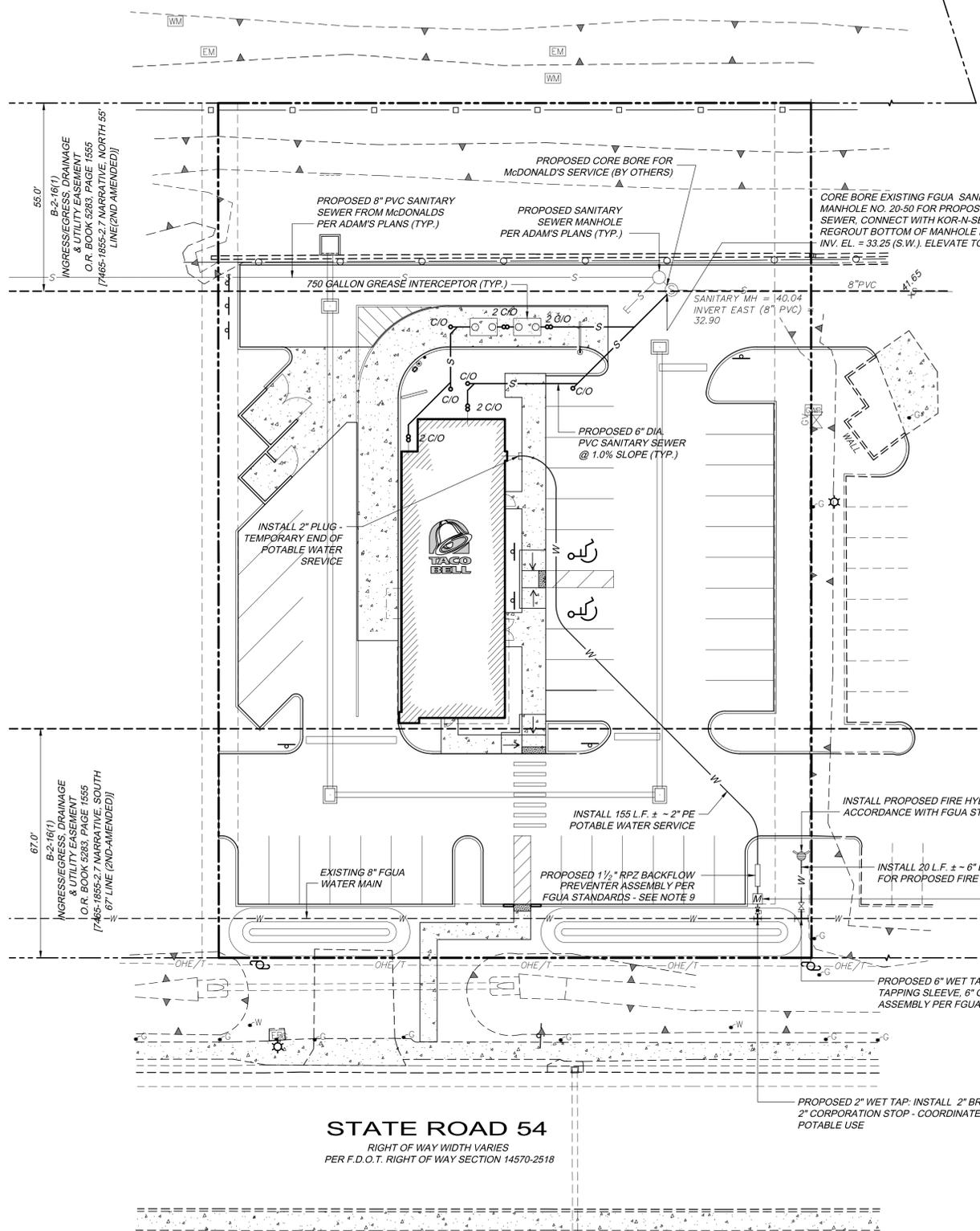
INGRESS/EGRESS, DRAINAGE & UTILITY EASEMENT O.R. BOOK 5283, PAGE 1555 [7465-1855-2.7 NARRATIVE, SOUTH 67° LINE (2ND-AMENDED)]



PR. NO.: E19-030201 DATE: 3-5-2014  
 REVISIONS  
 REUSE OF DOCUMENT  
 THE IDEAS AND DESIGN INCORPORATED HEREON, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC. (FEES AND IS NOT TO BE REPRODUCED OR USED WITHOUT THE WRITTEN AUTHORIZATION OF FEES.  
 FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC.  
 CERTIFICATE OF AUTHORIZATION: EB 5804  
 4519 Tampa, Florida 33634  
 Tel (813) 880-9106 Fax (813) 880-9055  
**TACO BELL TRINITY PASCO COUNTY, FLORIDA**  
**SITE PLAN**  
**C3**

MARK SULLIVAN P.E.  
 PROFESSIONAL ENGINEER  
 NO. 41227





**STATE ROAD 54**  
RIGHT OF WAY WIDTH VARIES  
PER F.D.O.T. RIGHT OF WAY SECTION 14570-2518

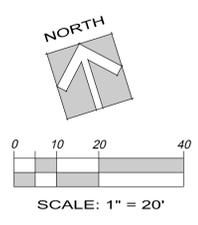
**UTILITY COMPANIES**

**WATER & WASTE WATER:**  
FLORIDA GOVERNMENTAL UTILITY AGENCY (FGUA)  
6915 PERRINE RANCH ROAD  
NEW PORT RICHEY, FLORIDA 34655  
CONTACT: MATHEW RHIS  
TELEPHONE: (727) 372-0015  
EMAIL: pasco@fgua.com

**ELECTRIC:**  
DUKE ENERGY  
4121 ST. LAWRENCE DRIVE  
NEW PORT RICHEY, FLORIDA 34653  
CONTACT: ERIC ENNIS  
TELEPHONE: (727) 562-5514  
EMAIL: eric.ennis@dukeenergy.com

**TELEPHONE:**  
VERIZON  
1280 CLEVELAND STREET  
CLEARWATER, FLORIDA 34755  
CONTACT: DAN SULLIVAN  
TELEPHONE: (727) 562-1190  
EMAIL: johnnathan.sullivan@verizon.net

**GAS:**  
CLEARWATER GAS SYSTEM  
400 N. MYRTLE AVENUE  
CLEARWATER, FLORIDA 34755  
CONTACT: JORGE HERNANDEZ, P.E.  
TELEPHONE: (727) 562-4900, X-7423



**LEGEND**

	PROPERTY LINE
	PROPOSED BUILDING
	EXISTING CONCRETE PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	CONCRETE RAMP
	EXISTING CONCRETE CURB
	PROPOSED CONCRETE CURB
	R-O-W
	S.F.
	E.O.P.
	EXISTING WATER LINE
	PROPOSED WATER LINE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER LINE
	PROPOSED CLEANOUT
	PROPOSED BIDIRECTIONAL CLEANOUT
	EXISTING STORM SEWER LINE
	EXISTING STORM SEWER MANHOLE

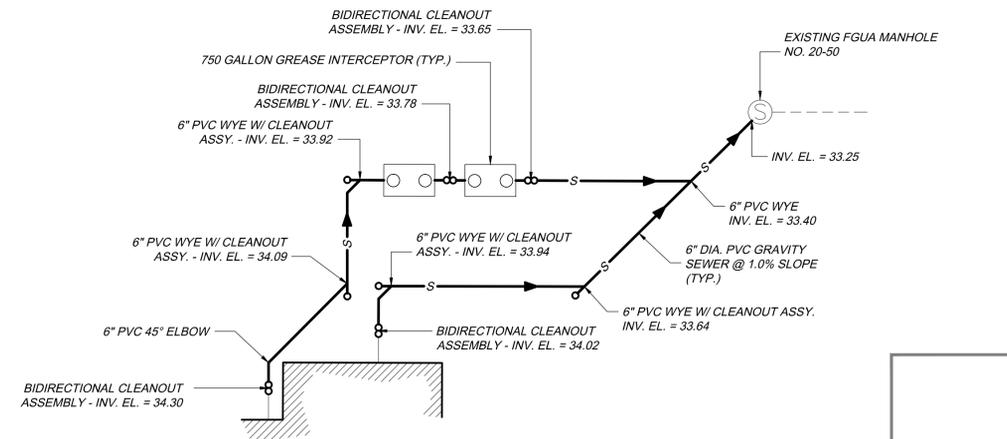
- FGUA GENERAL NOTES**
- ALL CONSTRUCTION SHALL MEET PASCO COUNTY STANDARDS AND SPECIFICATIONS AS APPLICABLE.
  - AN FGUA REPRESENTATIVE IS TO BE PRESENT DURING CONNECTIONS TO EXISTING FACILITIES WITH 72 HOUR NOTIFICATION.
  - ALL UTILITIES WITHIN THE PROPERTY LINES WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
  - ANY UTILITIES (PIPES, VALVES, BACKFLOW PREVENTORS AND ASSOCIATED HARDWARE) TO BE CONVEYED TO FGUA WILL BE LOCATED WITHIN AN EXISTING PUBLIC UTILITY EASEMENT, RIGHT-OF-WAY (ROW) AND/OR A DEDICATED FGUA UTILITY EASEMENT.
  - ANY REAL PROPERTY (LIFT STATIONS, PUMP HOUSES, WELLS, ETC.) WILL NOT BE LOCATED WITHIN THE ROW AND WILL BE CONVEYED TO FGUA VIA A SPECIFIC WARRANTY DEED.
  - LOW PRESSURE AIR TEST, AND TYING ARE REQUIRED (GRAVITY SYSTEM).
  - INSTALL 3M MAGNETIC MARKERS AT EACH VALVE. MARKERS TO BE INSTALLED BESIDE VALVE BOX 12" MIN-18" MAX AND OVER ALL BENDS AND EVERY 50' OVER CENTERLINE OF WATER MAINS AND FORCE MAINS AT A DEPTH OF 12" MIN-18" MAX BELOW FINAL GRADE.
  - ALL WATER AND/OR WASTEWATER LINES CROSSING DOT RIGHT-OF-WAYS WILL BE CONSTRUCTED WITH A CASING.
  - A REDUCED PRESSURE ZONE (RPZ), BACKFLOW PREVENTION ASSEMBLY (BFP) IS REQUIRED. ACCEPTABLE MODELS FEBCO 825Y, WATTS 909, WILKINS 975XL, OR CONTRACO 400.
  - STAINLESS STEEL TAPPING SLEEVE AND VALVE FOR PROPOSED WATER AND FORCE MAIN CONNECTIONS TO BE USED.
  - WATER TAPPING SADDLES TO BE BRASS.
  - ALL FIRE FLOW LINES WILL RUN SEPARATE FROM THE DOMESTIC WATER MAINS AND HAVE A FIRE DETECTION METER AND A FIRE LINE BACKFLOW PREVENTION ASSEMBLY (BFP) ASSEMBLY SHALL INCLUDE A LOW FLOW BY-PASS METER W/ RPZ.
  - MANHOLE FRAMES & COVERS, AND CO CAPS ARE TO BE WATER TIGHT, IF NEEDED EXISTING MANHOLE TOPS ARE TO BE ADJUSTED TO PROPOSED GRADE.
  - THE FGUA SHALL OWN AND MAINTAIN ALL WATER SERVICE LINES UP TO THE POINT OF CONNECTION. ALL WATER MAINS SHALL BE A MINIMUM OF FOUR INCHES (4") IN DIAMETER AND ALL SUCH WATER MAINS SHALL BE CONSTRUCTED IN DEDICATED RIGHTS-OF-WAY OR APPROPRIATE UTILITY EASEMENTS DEDICATED TO THE FGUA.
  - ALL SEWER FORCE MAIN LINES AND GRAVITY SERVICE LINES ACCEPTED MUST BE AT LEAST FOUR INCHES (4") IN DIAMETER AND EIGHT INCHES (8"), RESPECTIVELY, EXCEPT LATERAL SEWER SERVICE LINES WHICH SHALL BE NO LESS THAN SIX INCHES (6") IN DIAMETER AND ACCEPTED BY THE FGUA TO A CLEANOUT LOCATED ON THE EDGE OF THE RIGHT-OF-WAY OR AN EASEMENT.
  - A BALL CHECK VALVE FOLLOWED BY A PLUG VALVE WILL BE PROVIDED ON FORCE MAINS LEAVING FROM PRIVATELY OWNED LIFT STATIONS CONNECTING INTO THE UTILITY MAINS.
  - CONNECTION TO EXISTING MANHOLES AND/OR LIFT STATIONS SHALL BE BY CORE BORE WITH KOR-N-SEAL CONNECTORS.
  - ALL CONNECTIONS WILL BE MADE AS WET TAPS. ANY EXCEPTIONS TO THIS WILL REQUIRE FGUA APPROVAL.

**GREASE INTERCEPTOR CALCULATION**  
(FLORIDA PLUMBING CODE TABLE 1003.5.1)

MINIMUM GREASE INTERCEPTOR SIZE FORMULA =  
 $S \times GS \times HR / 12 \times LF$   
WHERE:  
S = NUMBER OF SEATS IN DINING AREA;  
GS = GALLONS OF WASTE WATER PER SEAT  
(USE 25 GALLONS FOR ORDINARY RESTAURANTS; USE 10 GALLONS FOR SINGLE SERVICE ARTICLES RESTAURANTS);  
HR = NUMBER OF HOURS ESTABLISHMENT IS OPEN;  
LF = LOAD FACTOR  
(USE 2.0 FOR INTERSTATE HIGHWAY; 1.50 FOR OTHER FREEWAYS; 1.25 RECREATIONAL AREA; 1.00 MAIN HIGHWAY; 0.75 OTHER ROADS)

MINIMUM GREASE INTERCEPTOR SIZE =  
50 SEATS x 10 GALLONS x 24 HOURS / 12 x 1.00 MAIN HIGHWAY = 1,000 GALLONS  
USE TWO (2) 750 GALLON INTERCEPTORS IN SERIES

- PASCO COUNTY STANDARD FIRE PROTECTION NOTES**
- ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51.
  - FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
  - PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
  - PER NFPA-1, 18.3.4.1: CLEARANCES OF 7 1/2' FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4-FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
  - GATED ENTRIES REQUIRE A SIREN OPERATING SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.



**SANITARY SEWER SCHEMATIC**  
NOT TO SCALE

MARK SULLIVAN P.E.  
PROFESSIONAL ENGINEER  
NO. 41227

PR. NO.: E13-030-01 DATE: 3-5-2014

REVISED BY: CHECKED BY:

REVISIONS

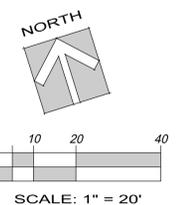
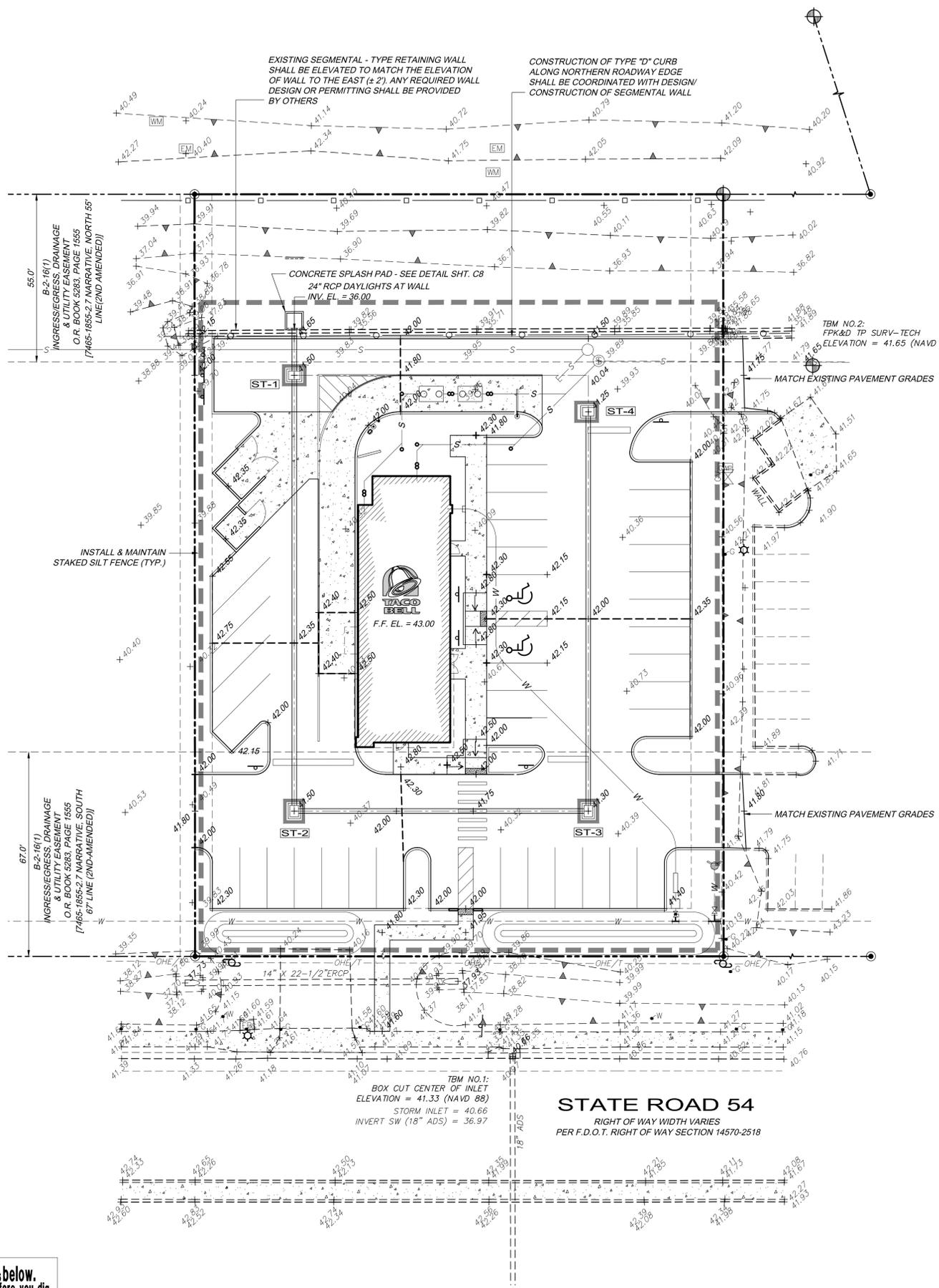
DATE

FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC.  
CERTIFICATE OF AUTHORIZATION: EB 5804  
4519 Co. Rd. Suite 130  
Tampa, Florida 33634  
Tel (813) 880-9106 Fax (813) 880-9055

**TACO BELL TRINITY PASCO COUNTY, FLORIDA**

**UTILITY PLAN**

**C5**



**LEGEND**

- PROPERTY LINE
- S.F. SQUARE FEET
- R.O.W. RIGHT-OF-WAY
- E.O.P. EDGE OF PAVEMENT
- PROPOSED BUILDING
- PROPOSED CONCRETE
- EXISTING FDOT TYPE "F" CURB & GUTTER
- EXISTING FDOT TYPE "D" CURB
- PROPOSED FDOT TYPE "D" CURB
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER GREASE TRAP
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER CLEANOUT
- PROPOSED SANITARY SEWER BIDIRECTIONAL CLEANOUT
- EXISTING STORM SEWER LINE
- PROPOSED STORM SEWER LINE
- PROPOSED GRATE INLET
- EXISTING LIGHT POLE
- EXISTING OVERHEAD WIRES
- EXISTING SPOT EL.
- PROPOSED SPOT EL.
- PROPOSED SURFACE WATER FLOW
- PROPOSED STORM STRUCTURE NO.
- PROPOSED STAKED SILT FENCE
- PROPOSED INLET PROTECTION BARRIER

VERTICAL DATUM FOR THIS SURVEY IS REFERENCED TO BSI & ASSOCIATES BENCHMARK NO. 1. BENCHMARK NO. 1 AS BEING A NAIL & DISK STAMPED BSI LB 7078. LOCATED NEAR THE INTERSECTION OF STATE ROAD 54 & DUCK SLOUGH BOULEVARD IN A FIVE FOOT SIDEWALK, APPROXIMATELY 500 FEET WEST FROM THE CENTERLINE OF DUCK SLOUGH BOULEVARD AND APPROXIMATELY 69 FEET SOUTH OF THE INTERSECTION OF STATE ROAD 54. 1 FOOT NORTH OF SOUTH EDGE OF SIDEWALK ELEVATION 41.79' (NAVD88) AS PROVIDED BY PASCO COUNTY, FLORIDA FOR TRINITY VILLAGE CENTER A COMMERCIAL SUBDIVISION, PER PLAT BOOK 61, PAGE 119.

— VERTICAL DATUM —

STORM STRUCTURE TABLE					
STRUCTURE NUMBER	DESCRIPTION	ELEVATIONS	PIPE SIZE OUT	PIPE LENGTH OUT	PIPE SLOPE OUT
ST-1	GRATE INLET - MODIFIED FDOT TYPE "D" PER FDOT DESIGN INDEX NO. 232	GRATE EL. = 41.50 INV. EL. = 36.03 (S.) INV. EL. = 36.03 (N.)	24" RCP	15 L.F.	0.20%
ST-2	GRATE INLET - MODIFIED FDOT TYPE "D" PER FDOT DESIGN INDEX NO. 232	GRATE EL. = 41.50 INV. EL. = 36.31 (W.) INV. EL. = 33.31 (N.)	24" RCP	143 L.F.	0.20%
ST-3	GRATE INLET - MODIFIED FDOT TYPE "D" PER FDOT DESIGN INDEX NO. 232	GRATE EL. = 41.30 INV. EL. = 36.50 (N.) INV. EL. = 36.50 (E.)	18" RCP	96 L.F.	0.20%
ST-4	GRATE INLET - MODIFIED FDOT TYPE "D" PER FDOT DESIGN INDEX NO. 232	GRATE EL. = 41.25 INV. EL. = 36.76 (S.)	18" RCP	131 L.F.	0.20%

MARK SULLIVAN P.E.  
PROFESSIONAL ENGINEER  
NO. 41227

PR. NO.: E13-030201 DATE: 3-5-2014

REVISED BY: CHECKED BY:

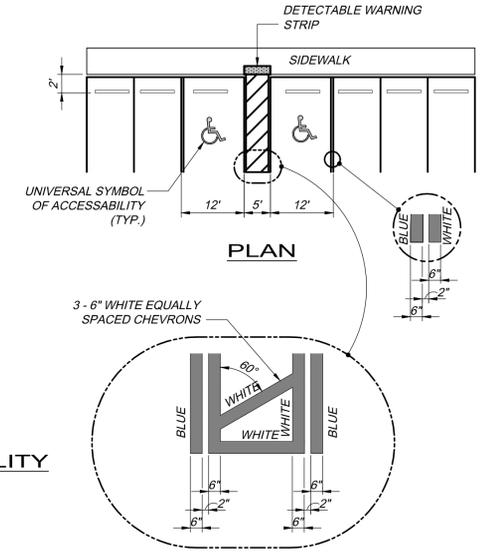
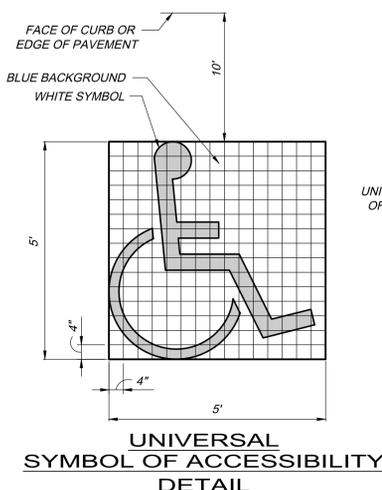
REUSE OF DOCUMENT  
THE IDEAS AND DESIGN INCORPORATED HEREON, AS AN INDEPENDENT SERVICE, IS THE PROPERTY OF FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC. (F.E.E.S.) AND IS NOT TO BE REPRODUCED OR USED WITHOUT THE WRITTEN AUTHORIZATION OF F.E.E.S.

FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC.  
CERTIFICATE OF AUTHORIZATION: EB 5804  
4519 Co. Rd. Florida 33634  
Tampa, Florida 33634  
Tel (813) 880-9106 Fax (813) 880-9055

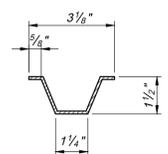
TACO BELL TRINITY PASCO COUNTY, FLORIDA

GRADING, PAVING & DRAINAGE PLAN

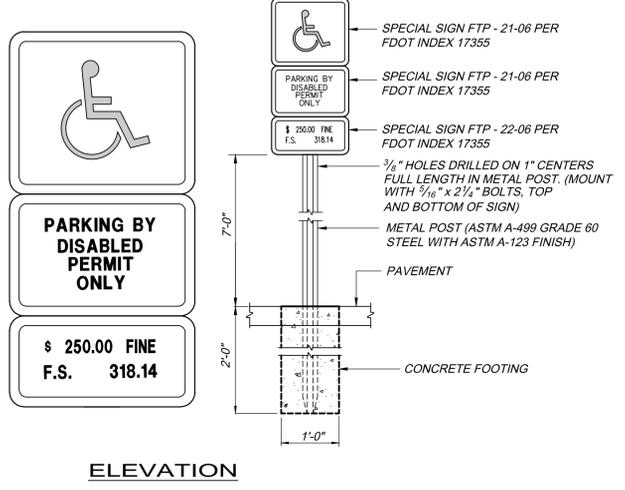
C6



**STRIPING DETAILS**



**METAL POST DETAIL**  
WEIGHT OF POST SHALL BE 2 LBS. / FT. MIN.

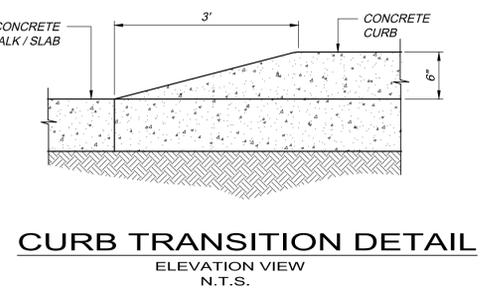


**ELEVATION**

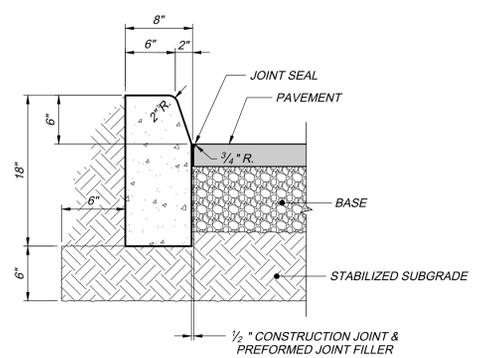
**SIGN NOTES:**

- METAL POST TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE RUSTPROOF.
- CONCRETE FOR FOOTING SHALL BE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I.
- SIGNS WILL BE FABRICATED BY USING REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDER APPLIED TO A SHEET ALUMINUM BACKING (.080) IN THICKNESS.
- MESSAGE LETTERING SHALL BE UPPER CASE (WHITE)/SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEELCHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595a, COLOR #15180).
- SIGN POST SHALL BE MIN. 2'-0" CLEAR FROM BACK OF CURB.

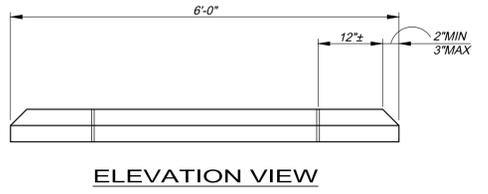
**SIGN DETAILS**



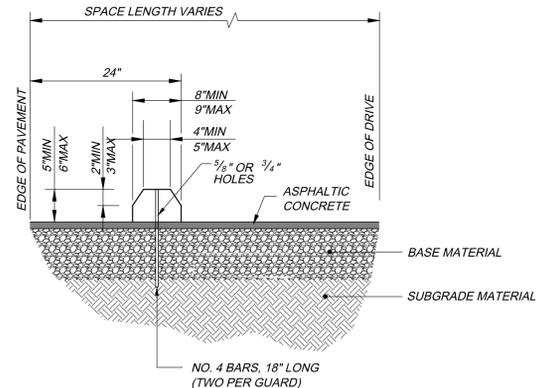
**CURB TRANSITION DETAIL**  
ELEVATION VIEW  
N.T.S.



**TYPE 'D' CURB**  
CROSS SECTION  
N.T.S.



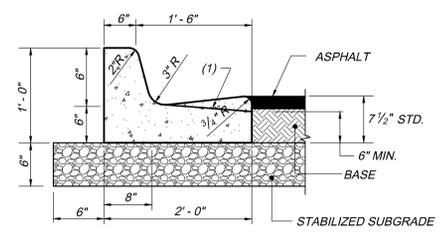
**ELEVATION VIEW**



**CROSS SECTION**  
**WHEEL STOP DETAIL**  
N.T.S.  
NOTE: CENTER WHEELSTOP IN PARKING SPACE.

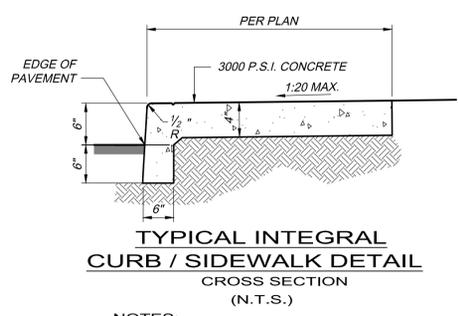
**HANDICAP PARKING DETAILS**  
N.T.S.

- NOTES:**
- ALL WORK SHALL CONFORM TO LATEST REVISION OF FDOT INDEXES 17346 & 17355.
  - PAVEMENT SLOPE @ HANDICAP PARKING & LOADING AISLES SHALL NOT EXCEED 2% IN ALL DIRECTIONS.



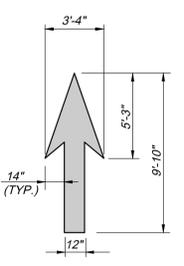
**TYPE "F" CURB**  
CROSS SECTION  
N.T.S.

NOTE (1): WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

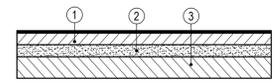


**TYPICAL INTEGRAL CURB / SIDEWALK DETAIL**  
CROSS SECTION  
(N.T.S.)

- NOTES:**
- FORMED CONSTRUCTION JOINTS 5'-0" CENTERS.
  - 1/2" EXPANSION JOINTS ON 20'-0" CENTERS.

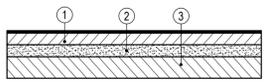


**TRAFFIC ARROW**  
N.T.S.



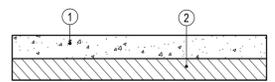
- 1.5" ASPHALTIC CONCRETE (FDOT TYPE "SP 12.5/9.5")
- 6" BASE COURSE, CRUSHED CONCRETE, COMPACTED TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D 1557. LBR = 100 MIN.
- 12" COMPACTED SUBGRADE TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). LBR = 40 MIN.

**STANDARD DUTY ASPHALT PAVEMENT DETAIL**  
(APPLICABLE TO PARKING STALLS ONLY)  
CROSS SECTION  
(N.T.S.)



- 2" ASPHALTIC CONCRETE (FDOT TYPE "SP 12.5/9.5")
- 8" BASE COURSE, CRUSHED CONCRETE, COMPACTED TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D 1557. LBR = 100 MIN.
- 12" COMPACTED SUBGRADE TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). LBR = 40 MIN.

**HEAVY DUTY ASPHALT PAVEMENT DETAIL**  
(APPLICABLE TO ALL AREAS OTHER THAN PARKING STALLS)  
CROSS SECTION  
(N.T.S.)



- 7" THICK, 4,000 PSI CONCRETE @ 28 DAYS.
- 12" COMPACTED, WELL DRAINING GRANULAR SUBGRADE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PER ASTM D 1557. LBR = 30 MIN.

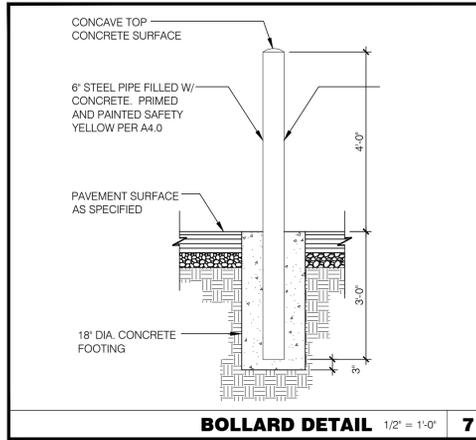
**CONCRETE PAVEMENT DETAIL**  
CROSS SECTION  
(N.T.S.)

**NOTE:**  
ALL PAVEMENT MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CONESTOGA-ROVERS & ASSOCIATES GEOTECHNICAL REPORT "SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION SERVICES TACO BELL - TRINITY PASCO COUNTY, FLORIDA", REFERENCE NUMBER 099232, DATED FEBRUARY 17, 2014

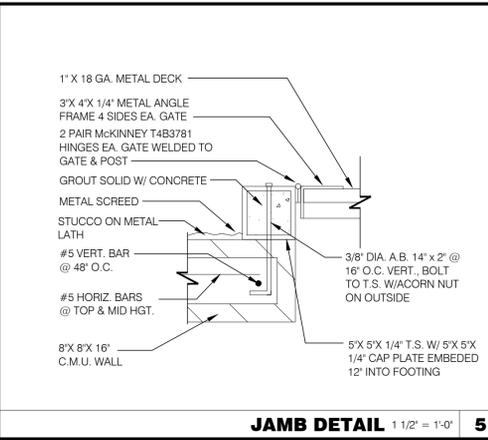


MARK SULLIVAN, P.E.  
PROFESSIONAL ENGINEER  
NO. 41227

PR. NO.: E13-030001 DATE: 3-24-2014  
 REUSE OF DOCUMENT  
 THE IDEAS AND DESIGN INCORPORATED IN THIS DOCUMENT ARE THE PROPERTY OF FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC. (F.E.E.S.) AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN AUTHORIZATION OF F.E.E.S.  
 FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC.  
 CERTIFICATE OF AUTHORIZATION: EB 5904  
 4519 George Road Suite 130  
 Tampa, Florida 33634  
 Tel: (813) 880-9106 Fax: (813) 880-9055  
 TACO BELL TRINITY PASCO COUNTY, FLORIDA  
 CONSTRUCTION DETAILS  
 C7  
 REVISIONS  
 DATE  
 REVISED BY: CHECKED BY:



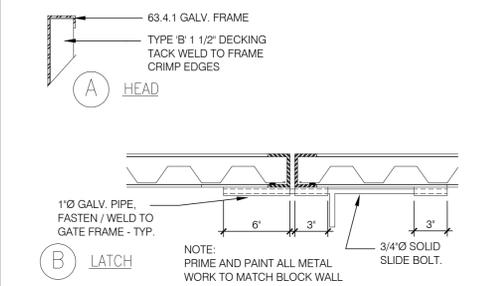
**BOLLARD DETAIL** 1/2" = 1'-0" **7**



**JAMB DETAIL** 1 1/2" = 1'-0" **5**

**GATE NOTES:**  
 (2) EQUAL (=6'-0") WIDE x 6'-0" HIGH MTL. GATES, TYPE 'B' 1 1/2" DECKING, 22GA. W/T.S. 5 X 5 X .1875 BAR CROSS BRACING WELD AND GRIND SMOOTH. ALL CONNECTIONS, TYP. PRIME AND PAINT COLOR TO MATCH PLASTER.

**GATE HARDWARE:**  
 1. ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.  
 2. **GATE STOP** - MUSHROOM TYPE OR FLUSH PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR.



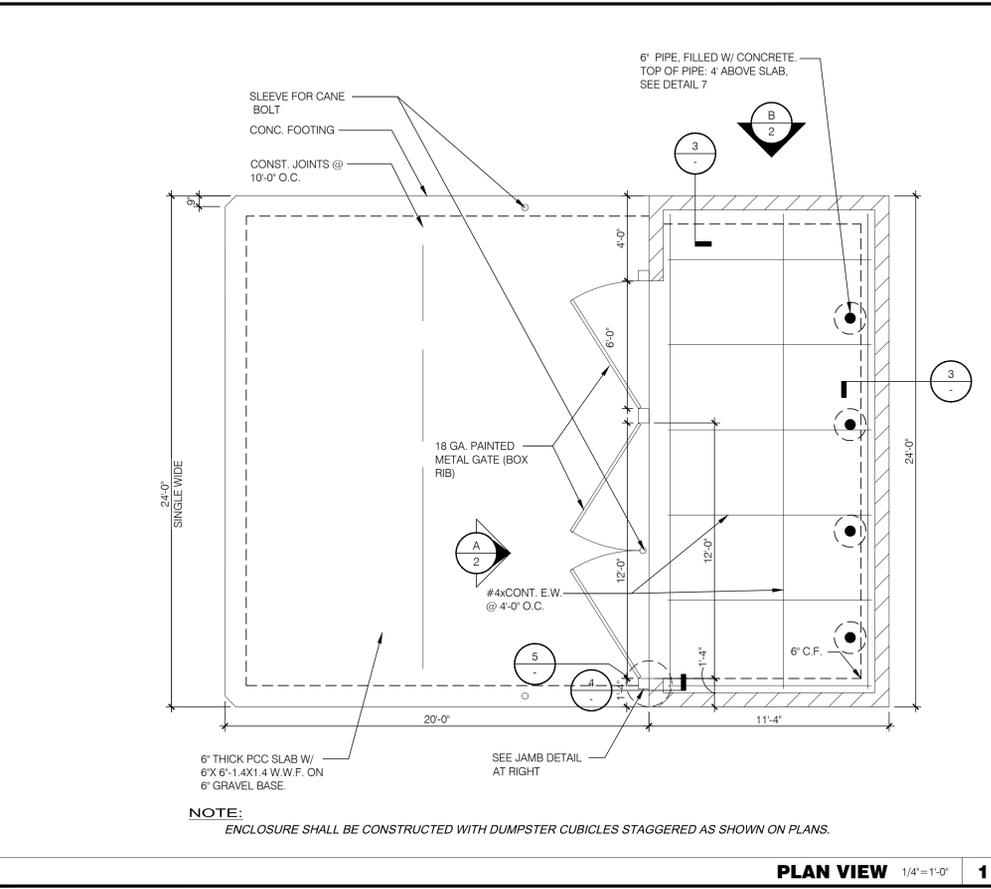
**NOTES:**  
 1. LOCATION SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT.  
 2. AREAS SHALL BE ACCESSIBLE FOR DELIVERY AND COLLECTION.  
 3. GATES SHALL BE CORRUGATED METAL DOORS AND MUST BE APPROVED BY PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.  
 4. GATE LATCHES SHALL BE OF THE PLUNGER BAR TYPE OR EQUIVALENT AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.  
 5. SEE ATTACHED SPECIFICATIONS, NOTES AND PROCEDURES

**TRASH ENCLOSURE DETAIL MATERIAL SPECIFICATIONS:**  
 1. CONCRETE BLOCK: 6" MINIMUM IN SIZE. ASTM C90.  
 2. REINFORCING STEEL: ASTM 615, GRADE 40.  
 3. ACCEPTABLE SOIL TYPES:  
 A. MIN. ALLOWABLE BEARING: 1000 LBS/SQ. FT.  
 B. MIN. LATERAL BEARING: 100 LBS/SQ. FT./FT.  
 C. MAX EXPANSION INDEX: 20  
 4. CONCRETE: 2000 LBS/SQ. IN. IN 28 DAYS.  
 5. MORTAR: 1:1 1/3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND, BY VOLUME). MIXED TO PLASTIC CONSISTENCY. REFER TO UBC TABLE 24-A FOR OTHER TYPES OF CEMENT.  
 6. GROUT: 1:1/10:3 (PORTLAND CEMENT: HYDRATED LIME OR LIME PUTTY: SAND BY VOLUME) MIX TO FLOW WITHOUT SEGREGATION. GROUT MAY CONTAIN 2 PARTS PEA GRAVEL (3/8" MAX. SIZE).  
 MINIMUM COMPRESSIVE STRENGTH: 2000 LBS/SQ. IN. REFER TO UBC TABLE 24-B FOR OTHER TYPES OF CEMENT.

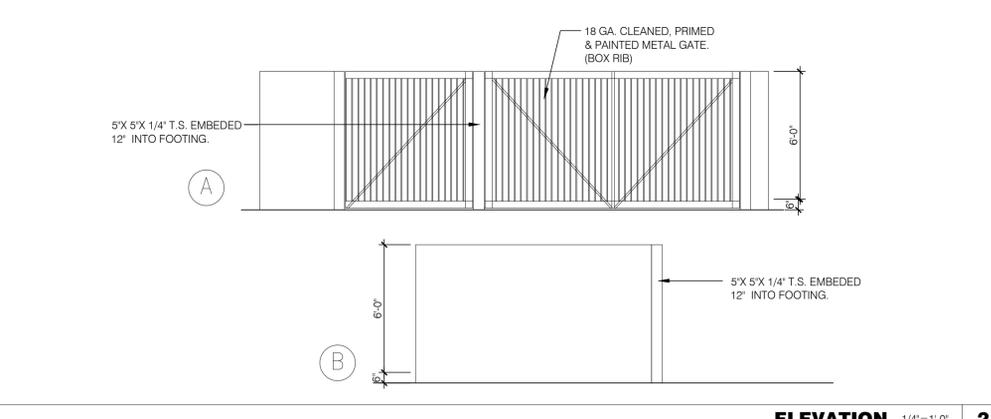
**GENERAL NOTES:**  
 1. THIS DESIGN IS FOR AVERAGE CONDITIONS AND MAY NOT BE SUITABLE FOR ALL CASES. IT IS RECOMMENDED THAT A LICENSED CIVIL OR STRUCTURAL ENGINEER BE CONSULTED.  
 2. FOOTINGS SHALL BE IN NATURAL SOIL OR CERTIFIED FILL.  
 3. BLOCKS TO BE STAGGERED (RUNNING BOND).  
 4. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE GROUTED.  
 5. APPROVED GROUT STOPS ARE REQUIRED BELOW HORIZONTAL STEEL IN PARTIALLY GROUTED WALLS, BAGS, NEWSPAPERS, ETC. ARE NOT APPROVED GROUT STOPS.  
 6. INITIAL BED JOINT SHALL BE 1/4" MIN. 1" MAX. SUBSEQUENT BED JOINTS SHALL BE 1/2" MIN., 3/4" MAX.  
 7. VERTICAL CONTINUITY OF CELLS SHALL BE UNOBSTRUCTED. MORTAR PROJECTIONS SHALL NOT EXCEED 1/2" FOR 6" AND LARGER BLOCK. MORTAR DROPPINGS OR OTHER FOREIGN MATTER ARE NOT PERMITTED IN CELLS AND MUST BE REMOVED.  
 8. EXPANSION JOINTS REQUIRED AT 60'-0" MAX. INTERVALS.  
 9. REQUIRED BAR LAPS:  
 A. VERTICAL STEEL - 30 BAR DIAMETERS.  
 B. HORIZONTAL STEEL - 40 BAR DIAMETERS.  
 C. WIRE JOINT REINFORCEMENT IN THE MORTARED BED JOINT: 75 WIRE DIAMETERS OR IN ALTERNATE BED JOINTS OF RUNNING BOND, 54 DIAMETERS PLUS TWICE THE BED JOINT SPACING.  
 10. WHERE HORIZONTAL WIRE JOINT REINFORCEMENT IS REQUIRED OR UTILIZED, IT SHALL BE EQUIVALENT TO TWO 3/16" DIAMETER BARS CONNECTED AT 16" INTERVALS BY NO. 9 GAUGE WELDED WIRE.  
 11. FOR PIPES AND CONDUIT EMBEDDED IN MASONRY, REFER TO SEC. 24-07(g), UBC.  
 12. 3" MIN. COVER REQUIRED FOR REINFORCEMENT IN CONCRETE WHICH IS CAST AGAINST EARTH.

**INSPECTION PROCEDURES:**  
 1. FOUNDATION: AFTER TRENCHES ARE DUG, STEEL IS TIED IN PLACE AND BEFORE ANY CONCRETE IS POURED.  
 2. PREGROUT: AFTER ALL BLOCKS (EXCEPT CAP) ARE IN PLACE, VERTICAL AND HORIZONTAL STEEL IS IN PLACE, GROUT STOPS (FOR PARTIALLY GROUTED MASONRY) ARE IN PLACE, AND PRIOR TO GROUTING.  
 3. FINAL: AFTER GROUT IS IN PLACE AND PRIOR TO PLACEMENT OF CAP.

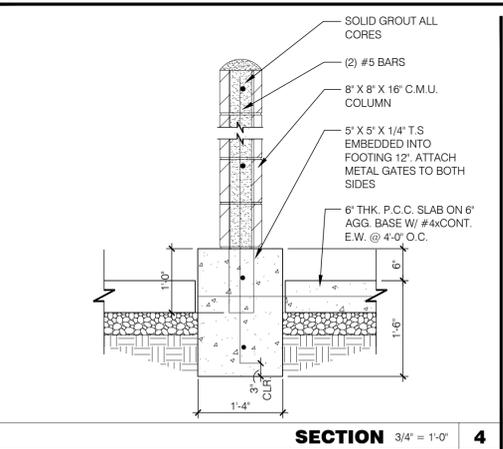
**GATE DETAILS** N.T.S. **6**



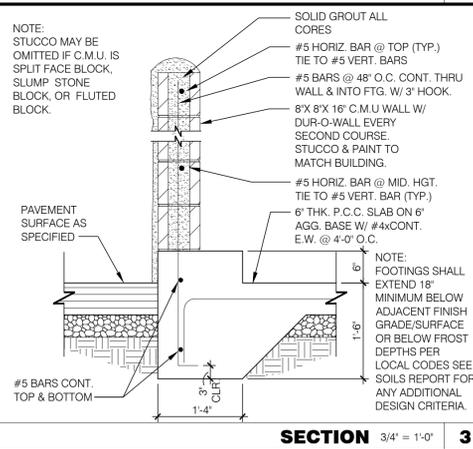
**PLAN VIEW** 1/4" = 1'-0" **1**



**ELEVATION** 1/4" = 1'-0" **2**



**SECTION** 3/4" = 1'-0" **4**



**SECTION** 3/4" = 1'-0" **3**

F:\projects\eng\13-030 TACO BELL TRINITY\13030 DETAILS.dwg, Cb, 4/29/2014 4:27:49 PM, Rch, 1:1, RMB



PR. NO.: E13-05007 DATE: 3-24-2014

REVISIONS

DATE

REVISOR

CHECKED BY: RMB/MOS

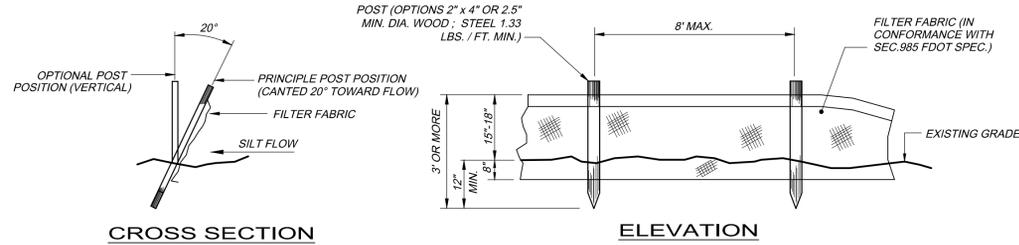
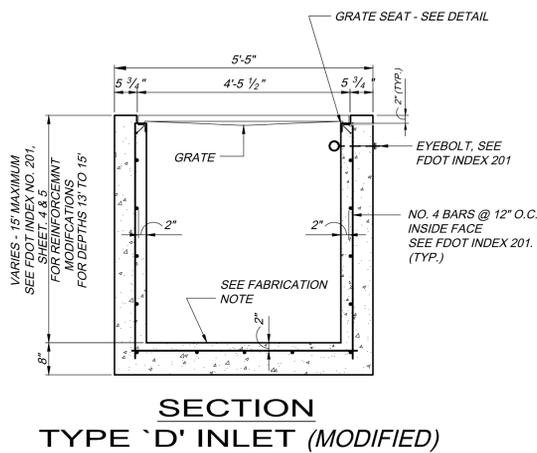
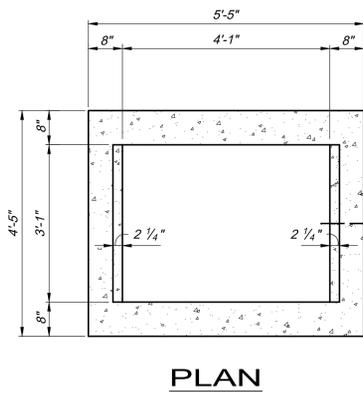
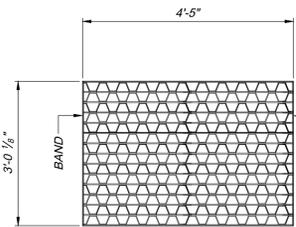
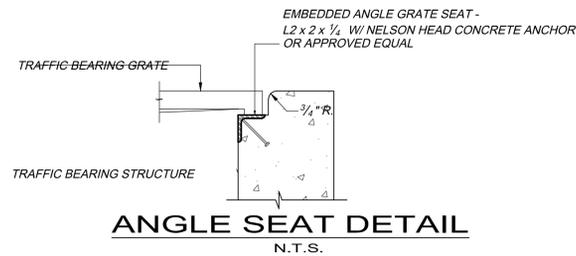
REVISED BY: RMB/MOS

FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC. CERTIFICATE OF AUTHORIZATION: EB 5904 4519 George Road Suite 130 Tampa, Florida 33634 Tel: (813) 880-9106 Fax: (813) 880-9055

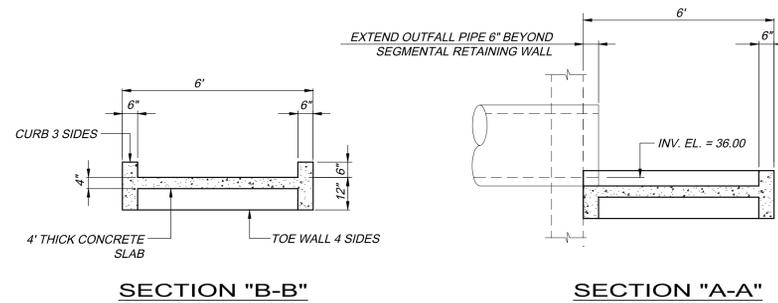
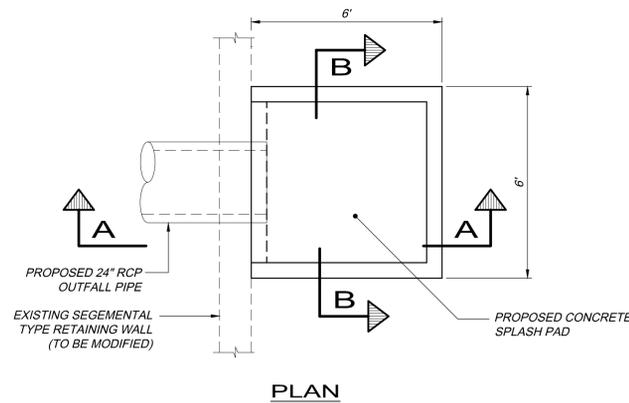
TACO BELL TRINITY PASCO COUNTY, FLORIDA

TACO BELL DUMPSTER ENCLOSURE DETAILS

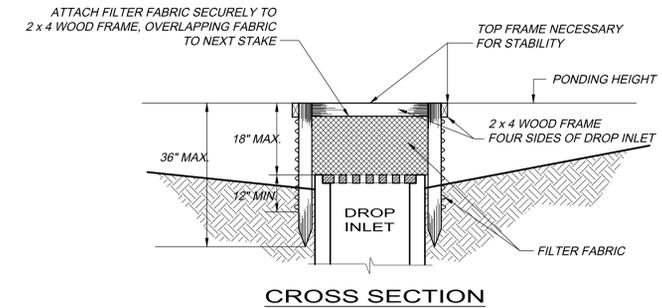
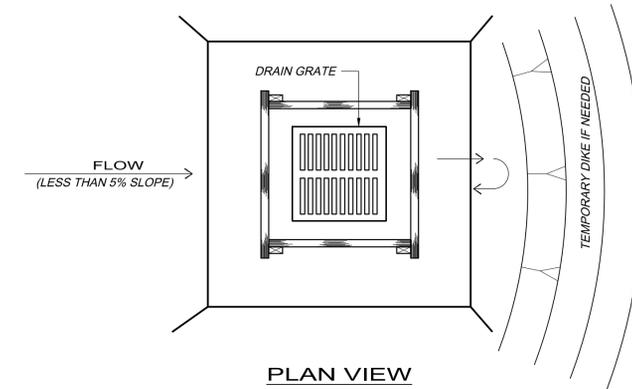
C 8



**STAKED SILT FENCE DETAIL**  
(N.T.S.)



**SPLASH PAD DETAIL**  
(N.T.S.)



**STORM INLET PROTECTION DETAIL**  
N.T.S.

REFERENCE: THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL  
([http://www.dep.state.fl.us/water/nonpoint/ero\\_man.htm](http://www.dep.state.fl.us/water/nonpoint/ero_man.htm))

**STORM INLET PROTECTION NOTES:**

- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5%).
- USE 2 x 4 WOOD OR EQUIVALENT METAL STAKES (3 FOOT MIN. LENGTH.)
- INSTALL 2 x 4 WOOD TOP FRAME TO INSURE STABILITY.
- THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

**FABRIC DROP INLET SEDIMENT FILTER NOTES:**

- FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID JOINTS.
- STAKES SHALL BE 2" x 4" (5CM x 10CM) WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET (90 CM.)
- STAPLES SHALL BE OF HEAVY DUTY WIRE AT LEAST 1/2" (13MM) LONG.
- STAKES SHALL BE PLACED AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET (90 CM) APART AND SECURELY DRIVEN INTO THE GROUND A MINIMUM OF 8 INCHES (20 CM). A FRAME OF 2" x 4" (5CM x 10 CM) WOOD SHALL BE CONSTRUCTED AROUND THE TOP OF THE STAKES FOR PROPER STABILITY.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" (10 CM) WIDE AND 4" (10 CM) DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
- THE BURLAP SHALL BE STAPLED TO THE WOODEN STAKES AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE HEIGHT OF THE FILTER BARRIER SHALL BE A MINIMUM OF 15 INCHES (38 CM) AND SHALL NOT EXCEED 18 INCHES (45 CM.)
- THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE BURLAP.



MARK SULLIVAN, P.E.  
PROFESSIONAL ENGINEER  
NO. 41227

PR. NO.: E13-03007 DATE: 3-24-2014

REUSE OF DOCUMENT  
THE IDEAS AND DESIGN INCORPORATED IN THIS DOCUMENT ARE THE PROPERTY OF TACO BELL TRINITY ENGINEERING AND ENVIRONMENTAL SERVICES, INC. (T.E.E.S.) AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN AUTHORIZATION OF T.E.E.S.

FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC.  
CERTIFICATE OF AUTHORIZATION: EB 5904  
4519 George Road Suite 130  
Tampa, Florida 33634  
Tel: (813) 880-9106 Fax: (813) 880-9055

**TACO BELL TRINITY ENGINEERING AND ENVIRONMENTAL SERVICES, INC.**  
**PASCO COUNTY, FLORIDA**

**STORM SEWER & EROSION CONTROL DETAILS**

REVISED BY: CHECKED BY:

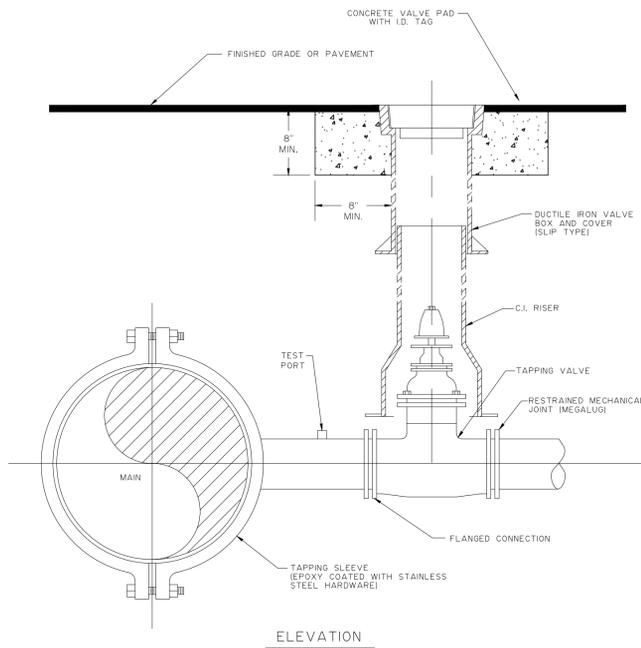
REVISIONS

DATE

89

F:\projects\eng\13-030 TACO BELL TRINITY\13000 DETAILS.dwg, C9, 4/29/2014 4:28:18 PM, Rich, 1:1, RMB





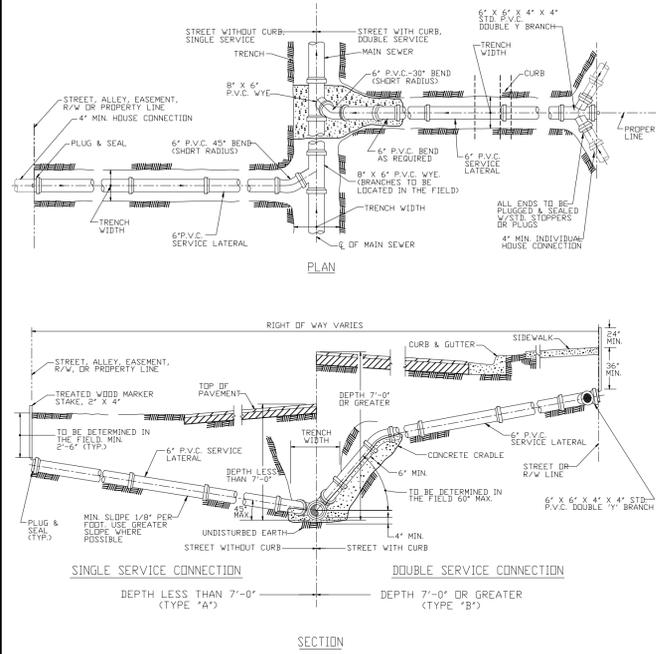
NOTES:

- SADDLE CONNECTION WILL BE TESTED TO 150 PSI PRIOR TO TAPPING MAIN.
- MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED BY COUNTY/ENGINEER.
- VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.

CREATED 02/24/03  
REVISED \_\_\_\_\_  
\_\_\_\_\_

WATER, REUSE, AND FORCE MAIN  
TAPPING DETAIL W/ VALVE LOCATION  
PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.  
DETAIL 37



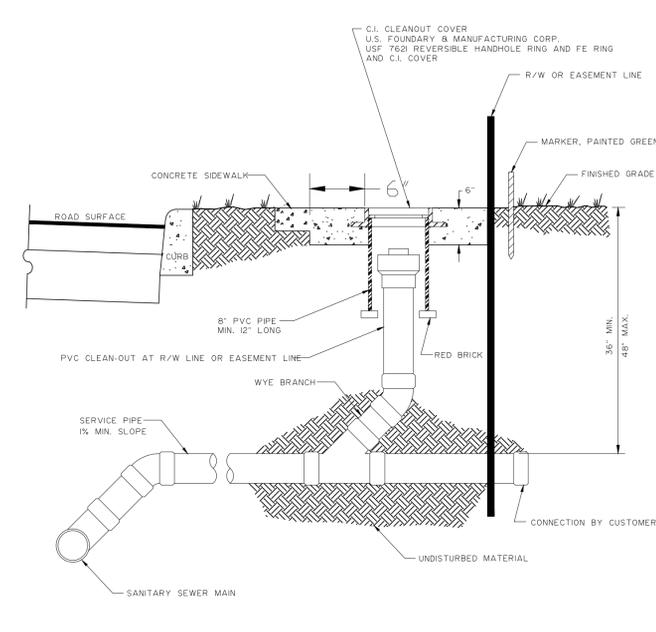
NOTE:

- CONTRACTOR SHALL MAKE, ON A CLEAN SET OF PLANS, THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE OF EACH SERVICE LATERAL, AND THEN GIVE TO ENGINEER FOR RECORD PURPOSES.
- PROVIDE 2' x 4' PRESSURE TREATED WOOD MARKER STAKE AT ALL SANITARY SERVICES (INCLUDE IN PIPE PRICE). TOP OF STAKE TO BE PAINTED WITH GREEN PAINT.
- THE MINIMUM DIAMETER OF ALL SERVICE LATERALS SHALL BE 6 INCHES.

CREATED 02/24/03  
REVISED \_\_\_\_\_  
\_\_\_\_\_

SEWER LATERAL CONNECTION  
PASCO COUNTY UTILITIES

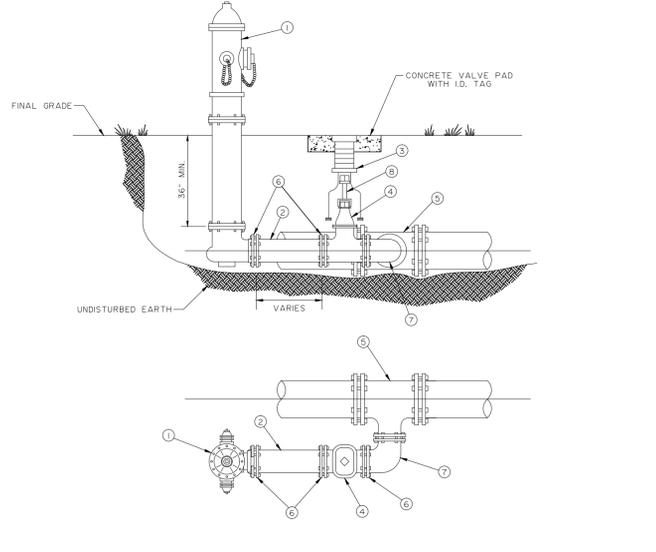
PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.  
DETAIL 44



CREATED 02/24/03  
REVISED \_\_\_\_\_  
\_\_\_\_\_

SANITARY SEWER - SINGLE WYE CONNECTION AND TYPICAL CLEAN-OUT  
PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.  
DETAIL 45



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	HYDRANT, FIRE 1 1/4" VALVE MIN., PAINTED YELLOW
2	*	6" PIPE, P.V.C. (OR-IB)
3	1	BOX, VALVE SLIP TYPE
4	1	6" VALVE, GATE, M.J. RESILIENT WEDGE
5	1	TEE, ANCHORING, M.J.
6	*	6" RESTRAINER GLAND (MEGALUG)
7	1	BEND, ANCHORING, D1
8	*	VALVE EXTENSION ROD, AS NECESSARY 13' MAX. BELOW GRADE

CREATED 02/24/03  
REVISED \_\_\_\_\_  
\_\_\_\_\_

FIRE HYDRANT PARALLEL TO THE MAIN  
PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.  
DETAIL 26

PR. NO.: EB-08007 DATE: 9-24-2014

REVISED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC.  
CERTIFICATE OF AUTHORIZATION: EB 5804  
4519 George Road, Suite 130  
Tampa, Florida 33634  
Tel: (813) 860-9106 Fax: (813) 880-9055

RELEASE OF DOCUMENT: THE IDEAS AND DESIGN INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF FLORIDA ENGINEERING AND ENVIRONMENTAL SERVICES, INC. IT IS NOT TO BE REPRODUCED OR USED WITHOUT THE WRITTEN AUTHORIZATION OF F.E.S.S.

TACO BELL TRINITY PASCO COUNTY, FLORIDA

UTILITY CONSTRUCTION DETAILS

C11

ARMANDO CABRE P.E.  
PROFESSIONAL ENGINEER  
NO. 66807



**GENERAL LANDSCAPE NOTES**

- All plant material to be Florida #1 or better quality, as specified in the current edition of the IFAS 'Grades and Standards for Nursery Stock'.
- Tree caliper measurements shall be taken at six (6) inches above natural grade. Measurements for trees over four (4) inches of caliper shall be taken at twelve (12) inches above natural grade. Diameter breast height (DBH) measurements to be taken at 4.5 feet above natural grade.
- The Plant Material Schedule included with the Plans is provided only for the Contractor's convenience; it shall not be construed as to conflict or predominate over the Plans.
- In the event of discrepancies in the quantities shown on the Plant Material Schedule/Bid Form and those shown on the Plans, the Contractor shall bid the quantity shown on the Plant Material Schedule/Bid Form and provide a note as to the quantity shown on the Plans.
- If a conflict between the Plans and the Specifications exists, the Plans shall predominate and be considered the controlling document.
- Contractor shall provide documentation of plant variety when specified. Plants specified by Genus and Species alone shall not require documentation.
- All materials shall be installed as specified on the Plans. If material and labor do not adhere to the Details and Specifications, they will be rejected by the Landscape Architect. Rejected materials will be replaced by the Landscape Contractor at no additional cost.
- All necessary permits are to be provided by the installing contractor for work shown on the Plans (unless otherwise specifically stated in the Specifications or Bid Documents).
- The Contractor shall be responsible for verification and protection of all underground and overhead utilities. Plant material shown on the Plans that conflict with the utilities shall be brought to the attention of the Landscape Architect prior to installation.
- The Owner or Owners Representative shall provide site grading to within 0.1 foot of finish grade. The Contractor shall provide fine grading to produce a positive drainage condition on the site. Surface water shall be directed to engineered drainage structures/slopes with smooth grading transitions. Debris larger than 1.5 inches shall be removed from surface of landscape beds and sodded areas.
- All plant material shall be installed and maintained in the highest standard of workmanship and in accordance with the Details and Specifications. Plant material shall be maintained by the Contractor until Final Acceptance is granted by the Owner.
- All B&B trees shall have strings, twine or rope removed from the top of the basket. All flagging tape, identification tags, and other objects shall be removed from the plant material prior to calling for a Substantial Completion inspection.
- Mulch shall be Pine Bark mini-nuggets. Sod shall be 'Argentine' Bahia.
- The Contractor shall remove existing vegetation necessary to complete the work shown on the plans. Use of herbicide shall be in accordance to manufacturer's recommendations and supervised by licensed applicators. The Contractor is solely responsible for the means to remove existing vegetation and responsible to ensure that re-growth does not occur.
- The Contractor shall keep a neat and orderly job site. Paved surfaces necessary for egress shall be kept clear of debris. Debris generated by the work shown on the Plans shall be removed from the site.
- The Contractor shall provide a replacement warranty for trees of one year's duration and shrub/groundcover for three months' duration from Final Acceptance.
- Sod shall be laid with tight joints. Sodded areas shall be rolled within three days after installation. Contractor shall apply proper irrigation water quantities prior to rolling to insure proper soil/root contact but not produce indentations from pedestrians.
- All questions concerning the Plans, Details, or Specifications shall be directed to the Landscape Architect. (727-343-1809).

**FERTILIZATION SCHEDULE**

- All plant material shall be fertilized upon installation but prior to mulching. Plant material adjacent to open bodies of water shall be mulched immediately following fertilization to reduce translocation of the granules.
- Fertilizer shall be Scotts Osmocote 'Classic' 19-6-12 in the twelve (12) month release formulation. Contractor may use the Standard or Lo-Start mixes depending on the level of existing fertilizer from plant nursery applications.
- Each containerized plant shall receive fertilization at the rates shown for each container size. One (1) cup equals two hundred eighty (280) grams of Scotts Osmocote 'Classic' 19-6-12 fertilizer.
 

1 Gallon Container	15 plants per cup
3 Gallon Container	1/4 cup
7 Gallon Container	1/2 cup
15 Gallon Container	3/4 cup
25 Gallon Container	1-1/2 cups
30 Gallon Container	1-3/4 cups
45 Gallon Container	2-1/4 cups
65 Gallon Container	2-1/4 cups
100 Gallon Container	3 cups
- Each balled and burlapped plant shall receive one half (0.5) cup of Scotts Osmocote 'Classic' 19-6-12 in the twelve (12) month release formulation for every caliper inch of trunk. One (1) cup equals two hundred eighty (280) grams of Osmocote 'Classic' 19-6-12 fertilizer.
- Scotts Osmocote 'Classic' 19-6-12 in the twelve (12) month release formulation shall be applied to sodded or seeded areas at a rate of ten (10) pounds per one thousand (1000) square feet.
- Scotts Osmocote 'Plus' 15-9-12 in the twelve (12) month release formulation shall be applied to palms at a rate of five (5) cups per one hundred (100) square feet of palm canopy. One (1) cup equals two hundred fifty (250) grams of Osmocote 'Plus' 15-9-12 fertilizer. If dripline of palm extends into lawn or other shrub/groundcover areas, the palm fertilizer shall be the only fertilizer applied to the area under the dripline of the palm.

**OPTIONAL FERTILIZATION TECHNIQUES**

- The Contractor may substitute Scotts Agriform 20-10-5 Planting Tablets Plus Minors for fertilization of trees, and large containers. The application rate shall be three (3) twenty-one (21) gram tablets per inch of caliper. Use Manufacturer's recommendations for palm fertilizer tablet application rate. Contractor shall notify Landscape Architect of the election to use fertilizer tablets prior to substantial completion inspection.
- Sodded or seeded areas over one half (0.5) acre may be fertilized (at contractor's choice) with a quick release granular fertilizer with the formulation that delivers three and one half (3.5) pounds of nitrogen, one half (0.5) pound of phosphate and one and one half (1.5) pounds of potash per one thousand (1000) square feet.
- Palms may be fertilized (at contractor's choice) with Florikan 8-2-12 Plus Magnesium under entire drip line of palm. The application rate to be fifteen (15) pounds per one thousand (1000) square feet.

**LANDSCAPE CODE REQUIREMENTS**

**TREE PROTECTION REQUIREMENTS**  
 NO PROTECTED TREES ARE TO BE REMOVED ON SITE  
 NO TREE PROTECTION BARRIERS ARE REQUIRED ON SITE- EROSION CONTROL FENCING SHALL PROVIDE PROTECTION TO TREES LOCATED ADJACENT TO THE PROPERTY LINES

**VEHICULAR USE AREA (VUA) REQUIREMENTS**  
 TOTAL VUA = 21,500 SQ. FT.  
 TOTAL LANDSCAPE AREA REQUIRED = 21,500 x 0.1 = 2,150 SQ. FT.  
 TOTAL LANDSCAPE AREA PROVIDED = 2,790 SQ. FT.  
 TOTAL VUA SHADE TREES REQUIRED = 11 TREES  
 TOTAL VUA SHADE TREES PROVIDED = 11 TREES

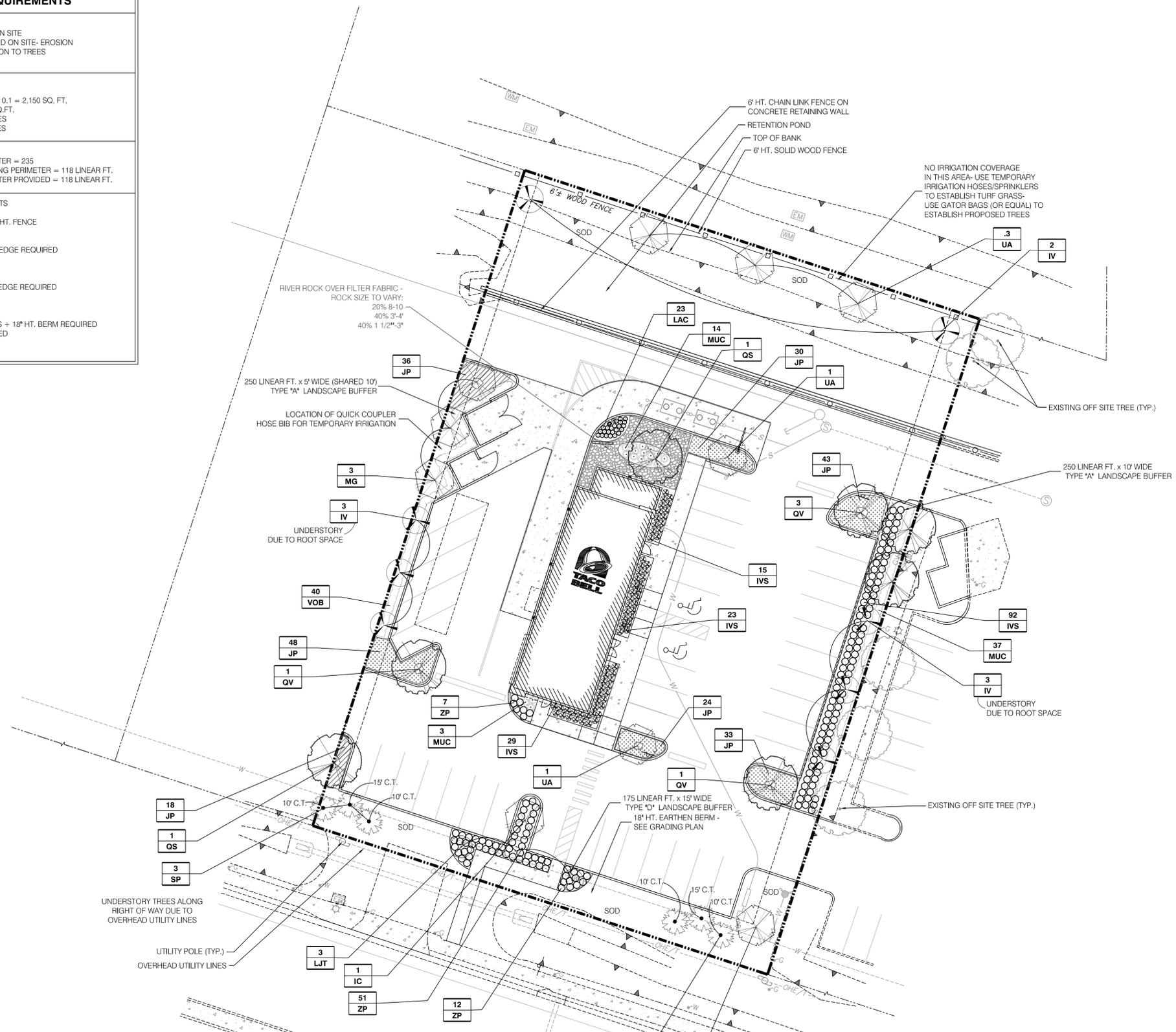
**BUILDING PERIMETER REQUIREMENTS**  
 TOTAL LINEAR FOOTAGE OF BUILDING PERIMETER = 235  
 TOTAL REQUIRED LANDSCAPE AREA AT BUILDING PERIMETER = 118 LINEAR FT.  
 TOTAL LANDSCAPE AREA AT BUILDING PERIMETER PROVIDED = 118 LINEAR FT.

**PERIMETER LANDSCAPE BUFFER REQUIREMENTS**  
 NORTH BUFFER:  
 175' LINEAR FT. TYPE "B" - 3 TREE + EXISTING 6' HT. FENCE

**EAST BUFFER:**  
 250' LINEAR FT. TYPE "A" - 5 TREES + BUFFER HEDGE REQUIRED  
 5 TREES + BUFFER HEDGE PROVIDED

**WEST BUFFER:**  
 250' LINEAR FT. TYPE "A" - 5 TREES + BUFFER HEDGE REQUIRED  
 5 TREES + BUFFER HEDGE PROVIDED

**SOUTH BUFFER:**  
 175' LINEAR FT. TYPE "D" - 6 TREES + 30 SHRUBS + 18' HT. BERM REQUIRED  
 6 TREES + 63 SHRUBS + 18' HT. BERM PROVIDED



CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	SPACING	NATIVE	DROUGHT TOLERANCE
IC	3	ILEX CASSINE 'TENSAW'	DAHOON HOLLY 'TENSAW'	3" CAL., 10' HT. X 4.5' SPD.	AS SHOWN	YES	HIGH
IV	6	ILEX VOMITORIA	YAUPOH HOLLY	3" CAL., 10' HT. X 6' SPD.	AS SHOWN	YES	HIGH
IVS	159	ILEX VOMITORIA SHILLINGS	DWARF YAUPOH HOLLY	3 GAL., 18" SPD.	2.5' O.C.	YES	HIGH
JP	232	JUNIPERUS PARSONII	PARSONS JUNIPER	1 GAL., 10-12" SPD.	2' O.C.	NO	HIGH
LAC	23	LANTANA CAMARA	DWARF YELLOW LANTANA	1 GAL., 12-14" SPD.	18" O.C.	YES	HIGH
LJT	3	LIGUSTRUM JAPONICUM TREE	TREE-FORM LIGUSTRUM	6' HT. X 5' SPD., MULTI TRUNK 3" COMBINED CALIPER	AS SHOWN	NO	LOW
MG	4	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	3" CAL., 10' HT. X 5' SPD.	AS SHOWN	YES	MEDIUM
MUC	54	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL., 18-24" SPD.	3' O.C.	YES	MEDIUM
QS	2	QUERCUS SHUMARDII	SHUMARD RED OAK	3" CAL., 10-12' HT. X 5' SPD.	AS SHOWN	YES	MEDIUM
QV	5	QUERCUS VIRGINIANA	LIVE OAK	3" CAL., 12' HT. X 4.5' SPD.,	AS SHOWN	YES	HIGH
SP	6	SABAL PALMETTO	CABBAGE PALM	SEE PLAN FOR C.T. HT.	AS SHOWN	YES	HIGH
UA	5	ULMUS ALATA	WINGED ELM	3" CAL., 10' HT. X 5' SPD.,	AS SHOWN	YES	HIGH
VOB	40	VIBURNUM OBOVATUM	WALTERS' VIBURNUM 'WITHLACOOCHIEE'	3 GAL., 24" HT. X 18" SPD.	3' O.C.	YES	HIGH
ZP	70	ZAMIA PUMILA	COONTIE	3 GAL., 16-18" SPD.	2.5' O.C.	YES	HIGH

THIRTY (30) TREES ARE PROVIDED TO OFFSET LAND DEVELOPMENT CODE REQUIREMENTS (SABAL PALMS COUNTED AT 3:1 RATIO)  
 EIGHT (8) TREE SPECIES ARE PROVIDED TO PROVIDE SPECIES DIVERSITY ON THE SITE

SCALE: 1" = 20'

NORTH

0 10' 20' 40' 80'

JACOB ZIMMERMAN, RLA  
 REG. NO. FL LA 0001653  
 LANDSCAPE ARCHITECT



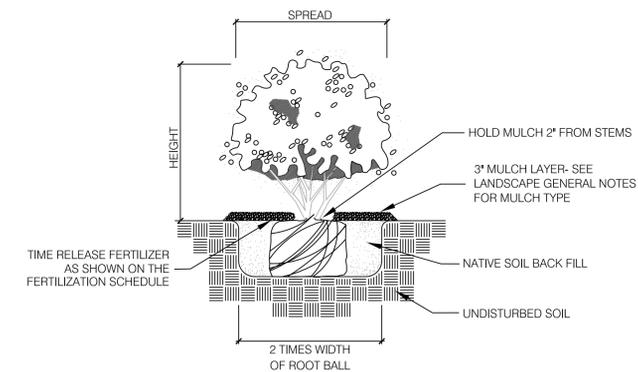
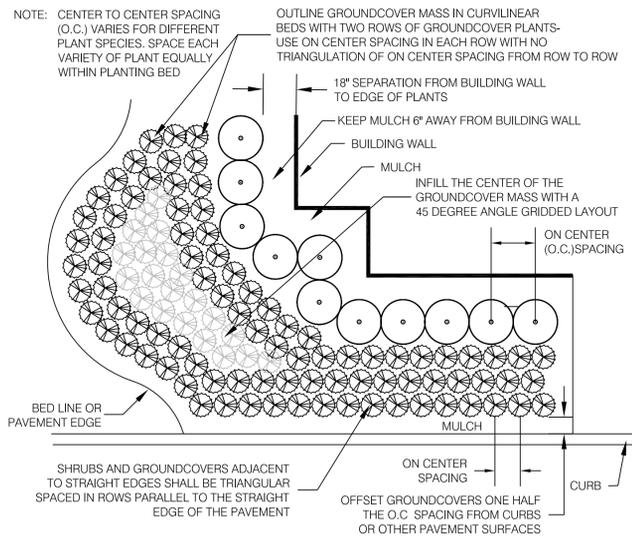
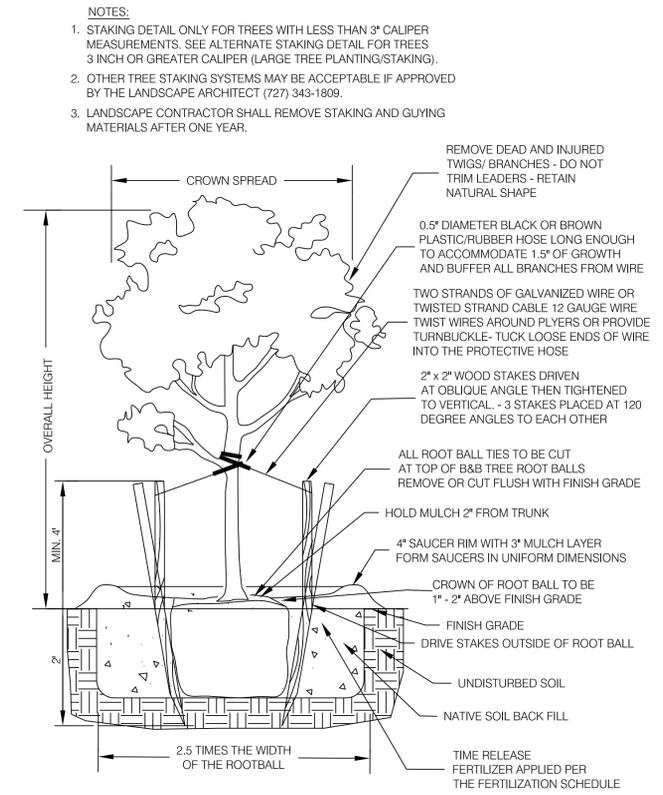
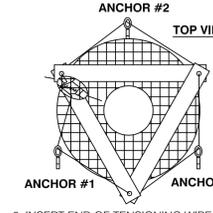
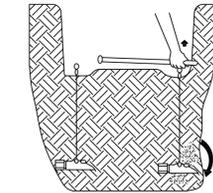
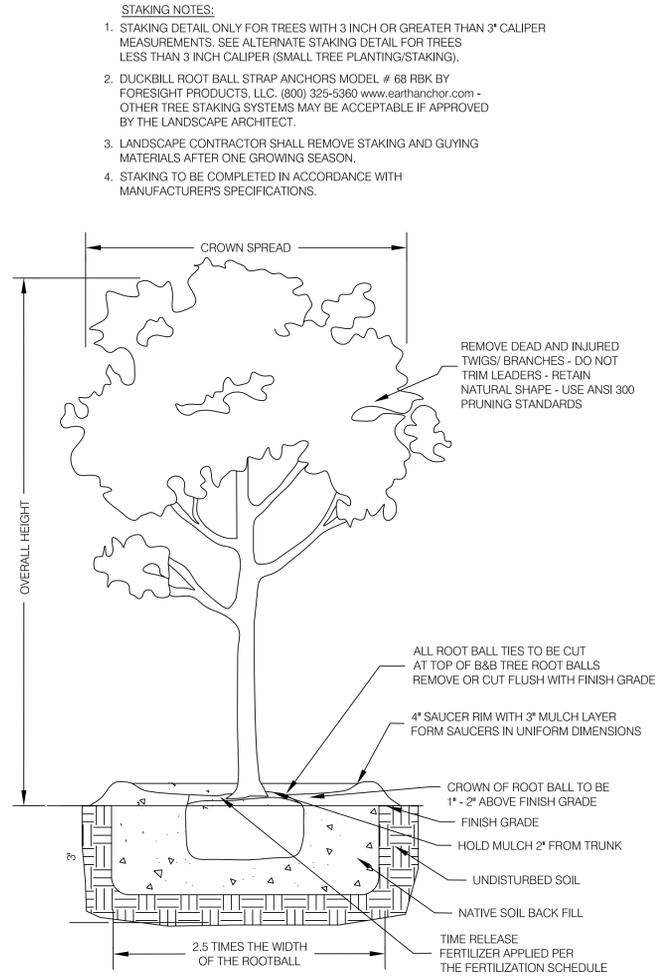
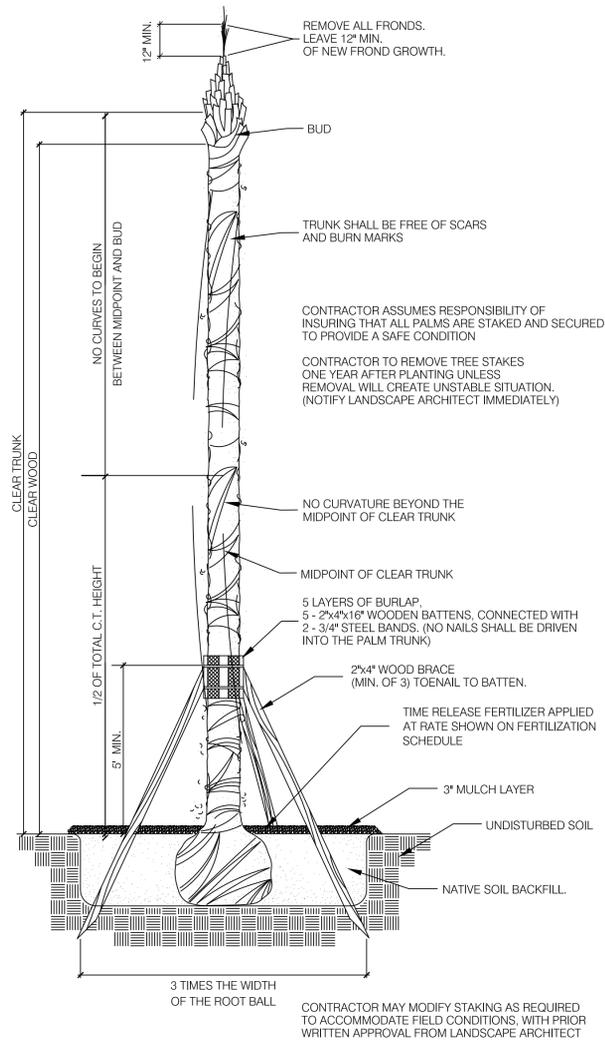
REVISIONS:

1.	
2.	
3.	
4.	

DRAWN BY: JAZ  
 DATE: 4/16/14

**14015**

LANDSCAPE PLAN  
**LS1**



REVISIONS:	
1.	
2.	
3.	
4.	

JACOB ZIMMERMAN, RLA  
REG. NO. FL LA 0001653  
LANDSCAPE ARCHITECT

DRAWN BY: JAZ  
DATE: 4/16/14

14015

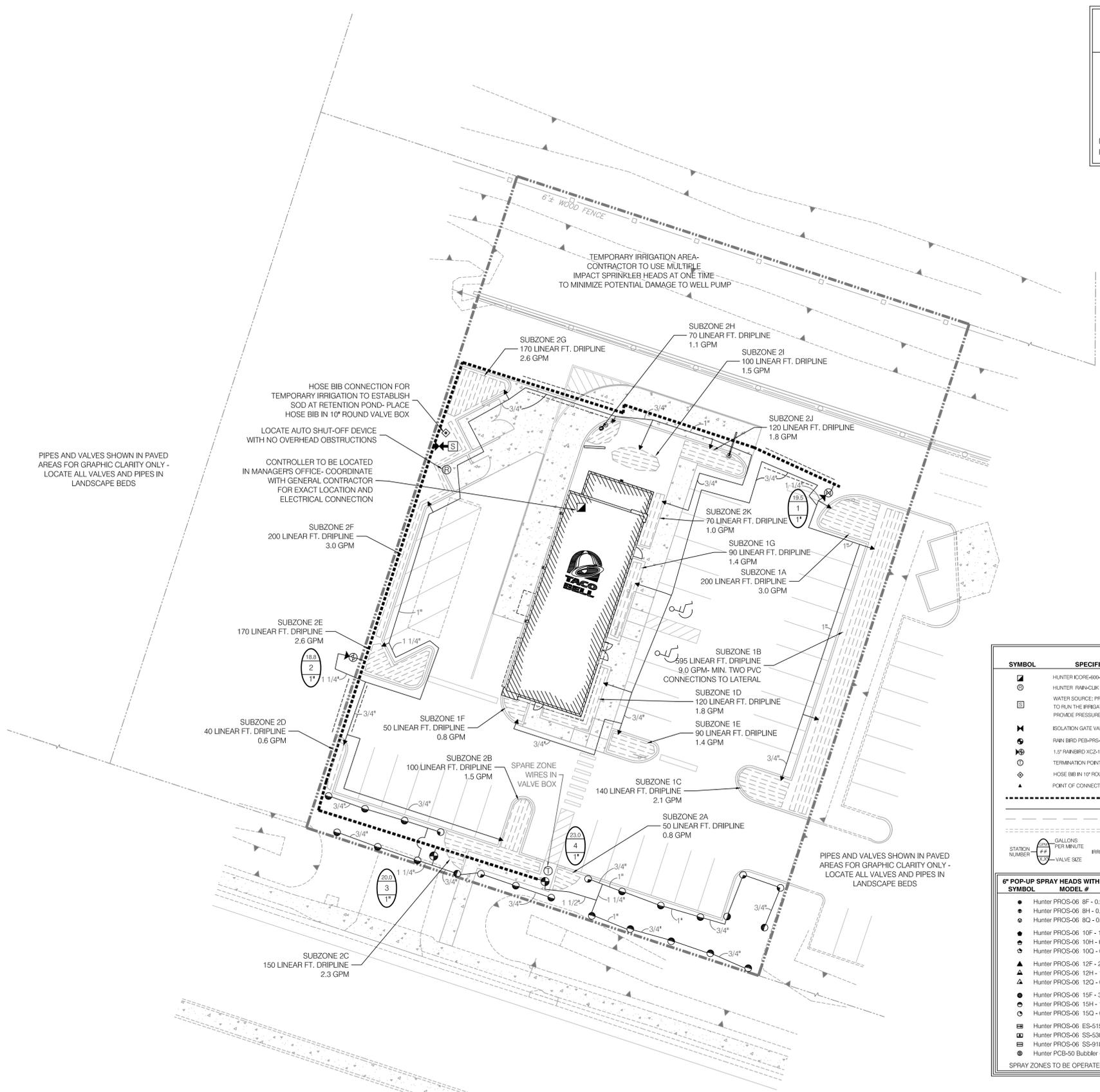
LANDSCAPE  
DETAILS

LS2

**GENERAL IRRIGATION NOTES**

- The Contractor shall provide a fully functional irrigation system as shown on the Plans. Irrigation heads shall provide 100% coverage of the area to be irrigated.
- The source of water for the irrigation system shall be: PROPOSED 4" WELL.
- The Contractor shall verify the capability of the water source to deliver a minimum pressure (30 PSI) and volume (35 GPM) to operate the irrigation systems as designed. In the event of discrepancies contact the Landscape Architect prior to installation.
- All questions concerning the Plans, Details or Specifications shall be directed to the Landscape Architect, (727) 343-1809.
- All necessary permits (Including Right of Way Use Permit) are to be provided by the installing contractor for work shown on the Plans.
- All components of the proposed irrigation system shall meet the federal, state and local codes, regulations and ordinances concerning irrigation construction.
- In an effort to create graphic clarity, irrigation mainline, lateral line, valves and other components of the irrigation system may be shown in paved areas or inside buildings on the Plans. These components are to be installed in appropriate landscape areas to carry out the intent of the Plans.
- The Contractor shall be responsible for verification and protection of all underground and overhead utilities.
- The Contractor shall review the Landscape Plans prior to installing the irrigation system. Coordinate installation locations of pipes, valves and other equipment with the installation locations of trees and shrubs.
- As-Built drawings are to be provided by the Contractor. Drawings shall be on Owner furnished base plans in hard copy or electronic versions. Contractor shall note all deviations from the Irrigation Plans as noted in Section 32 8423 of the Specifications.
- Mainline is to be installed with a minimum of 18" depth of cover, and lateral lines are to be installed with a minimum of 12" depth of cover.
- Sleeving is to be provided by the Contractor (unless otherwise specifically stated in the Specifications or Bid Documents).
- The Contractor shall provide operating maintenance instructions and operation manuals to the Owner prior to acceptance of the project.
- Owner shall provide 110 Volt power to the controller location. Electrical connection from power source to control clock is to be provided by the Contractor (unless otherwise specifically stated in the Specifications or Bid Documents). Contractor shall coordinate installation location of control clock with Owner or Owner's Representative.
- When the irrigation system Source is a proposed well, the well and pump locations shall be coordinated with the Owner or Owner's Representative prior to installation. The Owner shall provide power to the pump location. Contractor shall coordinate voltage and phase of available power with the local electrical utility and the Owner prior to ordering of the pump. Contractor shall coordinate pump ordering lag time with the irrigation and landscape work schedules to ensure timely supply of water to the project site.
- Contractor shall install an inline 120VAC-15A lightning surge protector between the power source and the controller. Ground each controller to a 5/8" x 8" copper clad ground rod with AWG #6 bare solid copper wire. A proper ground shall have 10 ohms or less resistance to earth. Use of multiple ground rods may be necessary to achieve the desired resistance reading.
- Contractor shall label location and head type for each zone in the irrigation system on the inside of the controller door. Suggested zone run time shall be indicated. All zone valves shall have permanent (plastic or metal) tags attached to the valve corresponding to the number of the zone on the controller.
- Control Clocks shall be programmed to include a watering schedule that provides 1" of water per week during the months April to November and provides 1" of water every two weeks during the months December to March. The zone run time shall be sequenced for the local watering restrictions as Program 'A'. Program 'B' shall be set as the water establishment period watering schedule in cooperation with the Landscape Contractor.
- The rain shut-off device shall be installed to meet local codes. Contractor shall locate device so that obstructions do not alter the accurate monitoring of rainfall at the project site. All wiring to the device shall be enclosed in 1/2" PVC electrical conduit.
- 12" pop-up spray (or rotor) heads shall be installed in all groundcover beds and masses of shrubs not exceeding 22 inches height.
- 6" pop-up spray heads shall be installed in all turf areas. Rotor heads in turf areas to be 6" pop-ups with the exception of Hunter PGP Series (4").
- All Hunter PGJ and PGP Rotor and Spray heads shall have heavy walled PVC IPS flex pipe for the connection between lateral line and each head. Provide adequate slack for minor head adjustment. All Hunter I-20 Rotor heads shall have rigid PVC swing joints. See Details for Shrub Riser and 12" pop-up head applications.
- The Contractor shall adjust all heads to provide optimum coverage and minimize overthrow onto paved surfaces. Adjustable nozzles shall be used in areas where fixed spray patterns will result in overthrow onto paved surfaces. Adjust pressure regulating valves to prevent misting from heads.
- Valve boxes shall be sized to accommodate installation and maintenance of zone valve(s). The valve box shall have a 3" deep layer of 1/2" diameter gravel as a sump installed 2" below the bottom of the valve. Valve boxes shall be installed so that the top of the box is no more than 1.5 inch above finish grade and set parallel to the surrounding grade.
- All 24 Volt control wiring shall be UL Listed, single strand, Type UF 600 Volt control cable. Common wires to be white AWG #12 or larger wire. Hot wires to be red, AWG #14 or larger wire. Spare wires to be any color wire except green, red or white, AWG #14 or larger wire.
- All splices to the 24 Volt control wiring shall be made with King Technology (King 6) silicone filled safety connectors.
- Shrub risers shall only be installed in hedges or mass plantings abutting vertical walls or objects and not extend more than 6" above the height of the shrubs. In no case shall risers be installed directly adjacent to curbs, sidewalks or other vehicular access ways. If risers are to be used in hedges abutting parking areas without concrete wheel stops, they must be placed a minimum of 30 inches away from the edge of pavement to protect the riser from damage by vehicular overhang. All risers are to be painted black.
- Mainline piping shall have thrust blocks sized and placed in accordance with the pipe manufacturer's recommendations. Thrust blocks shall be installed at all changes in direction, reduction in pipe size, and end caps on the Mainline.
- Irrigation Systems designed with Reclaimed Water as the Source shall include purple marking caps for all valve boxes, valves, quick couplers, hose bits and spray or rotor heads. Purple pipe is not required but acceptable for installation. Rainbird PESBR-PRS-D zone valves with self cleaning scrubber shall be used on all systems connected to Reclaimed Water.

PIPES AND VALVES SHOWN IN PAVED AREAS FOR GRAPHIC CLARITY ONLY - LOCATE ALL VALVES AND PIPES IN LANDSCAPE BEDS



IRRIGATION ZONE SCHEDULE			
ZONE #	GPM	HEAD TYPE	WATER USAGE ZONE
1	18.8	DRIPLINE	LOW
2	19.5	DRIPLINE	LOW
3	20.0	SPRAY	HIGH
4	23.0	SPRAY	HIGH
5		SPARE WIRE	
6		SPARE WIRE	

NOTE: DRIPLINE ZONES DO NOT INCLUDE GPM FOR DBC-025 EMITTERS PROVIDE TWO (2) EMITTERS PER TREE SHOWN ON LANDSCAPE PLAN

IRRIGATION LEGEND	
SYMBOL	SPECIFICATION
Ⓜ	HUNTER ICORE-600-PL IRRIGATION CONTROLLER (SEE GENERAL IRRIGATION NOTES FOR INSTRUCTIONS)
Ⓢ	HUNTER RAIN-CLK - RAIN SENSOR
Ⓜ	WATER SOURCE: PROPOSED 4" WELL - CONTRACTOR SHALL SIZE WELL PUMP TO PROVIDE ADEQUATE PRESSURE AND VOLUME TO RUN THE IRRIGATION SYSTEM SHOWN ON THE PLANS. PROVIDE NEMA 3R SIZE 1 PANEL WITH ICE CUBE PUMP START RELAY. PROVIDE PRESSURE TANK AND CYCLE STOP VALVE.
Ⓜ	ISOLATION GATE VALVE - LINE SIZE
Ⓜ	RAIN BIRD PESB-PRS-D 24 VOLT REMOTE CONTROL VALVE (SEE IRRIGATION ZONE TAG FOR VALVE SIZE)
Ⓜ	1.5" RAINBIRD XC2-150-COM PESB-PRS-D VALVE WITH (2) RAINBIRD 150 MESH BASKET FILTERS (Q20K-H-150M)
Ⓜ	TERMINATION POINT OF SPARE ZONE WIRE FROM CONTROLLER
Ⓜ	HOSE BIB IN 10" ROUND VALVE BOX
▲	POINT OF CONNECTION - PVC TO DRIP TUBING
---	MAINLINE: 1 1/2" SCHEDULE 40 PVC
---	LATERAL LINE: MINIMUM 1/2" PVC (MINIMUM PIPE SIZE TO BE 3/4")
---	RAIN BIRD #XFD-06-12 IN-LINE PRESSURE COMPENSATING DRIP TUBING (1.5 GPM/100' TUBING)
---	SLEEVEING: SCHEDULE 40 PVC (TWO NOMINAL SIZES LARGER THAN PIPE TO BE SLEEVED)
Ⓜ	STATION NUMBER
Ⓜ	GALLONS PER MINUTE
Ⓜ	IRRIGATION ZONE TAG
Ⓜ	VALVE SIZE

6" POP-UP SPRAY HEADS WITH PLASTIC RISER	
SYMBOL	MODEL #
●	Hunter PPOS-06 8F - 0.97 GPM
●	Hunter PPOS-06 8H - 0.47 GPM
●	Hunter PPOS-06 8Q - 0.24 GPM
●	Hunter PPOS-06 10F - 1.59 GPM
●	Hunter PPOS-06 10H - 0.88 GPM
●	Hunter PPOS-06 10Q - 0.42 GPM
▲	Hunter PPOS-06 12F - 2.70 GPM
▲	Hunter PPOS-06 12H - 1.30 GPM
▲	Hunter PPOS-06 12Q - 0.67 GPM
●	Hunter PPOS-06 15F - 3.75 GPM
●	Hunter PPOS-06 15H - 1.86 GPM
●	Hunter PPOS-06 15Q - 0.97 GPM
●	Hunter PPOS-06 ES-515 - .65 GPM
●	Hunter PPOS-06 SS-530 - 1.30 GPM
●	Hunter PPOS-06 SS-918 - 1.72 GPM
●	Hunter PCB-50 Bubbler - 0.5 GPM
SPRAY ZONES TO BE OPERATED AT 30 PSI	

6" POP-UP ROTOR HEADS WITH STAINLESS STEEL RISER	
SYMBOL	MODEL #
●	18" O.C. SPACING WITH SHORT RADIUS NOZZLES (BLACK # 466100)
●	Hunter k20-36S-2.0SR 2.0 Short Radius Nozzle 2.00 GPM
●	Hunter k20-ADS-1.0SR 1.0 Short Radius Nozzle 1.00 GPM
●	Hunter k20-ADS-0.5SR 0.5 Short Radius Nozzle 0.50 GPM
●	25" O.C. SPACING WITH SHORT RADIUS NOZZLES (BLACK # 466100)
●	Hunter k20-36S-3.0 3.0 Short Radius Nozzle 3.0 GPM
●	Hunter k20-ADS-1.5 1.5 Short Radius Nozzle 1.5 GPM
●	Hunter k20-ADS-0.75 0.75 Short Radius Nozzle 0.75 GPM
●	40" O.C. SPACING WITH STANDARD NOZZLES
●	Hunter k20-6P-36S-8.0 8.0 Nozzle 8.50 GPM
●	Hunter k20-6P-ADS-4.0 4.0 Nozzle 4.25 GPM
●	Hunter k20-6P-ADS-3.0 3.0 Nozzle 3.25 GPM
●	Hunter k20-6P-ADS-1.5 1.5 Nozzle 1.65 GPM
ROTOR ZONES TO BE OPERATED AT 50 PSI	

SCALE: 1" = 20'

NORTH

0 10' 20' 40' 80'

JACOB ZIMMERMAN, RLA  
REG. NO. FL LA 0001653  
LANDSCAPE ARCHITECT

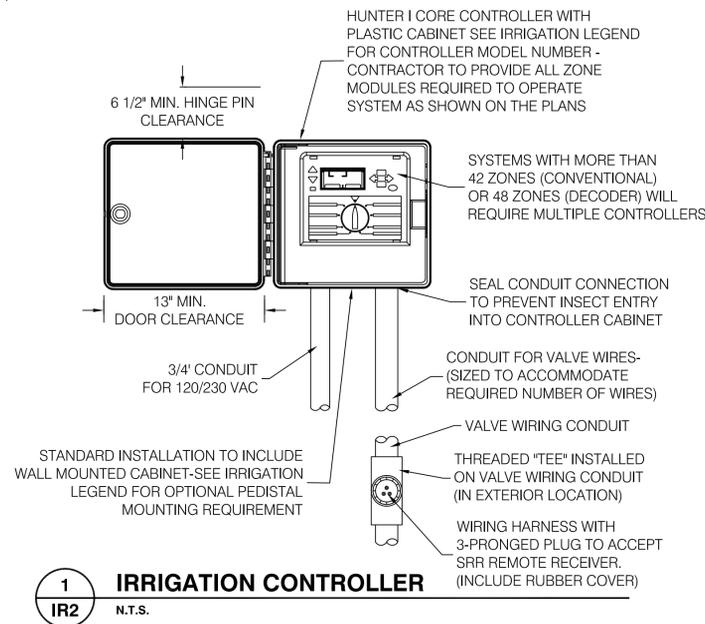
DRAWN BY: JAZ  
DATE: 4/16/14

14015  
IRRIGATION PLAN  
IR1

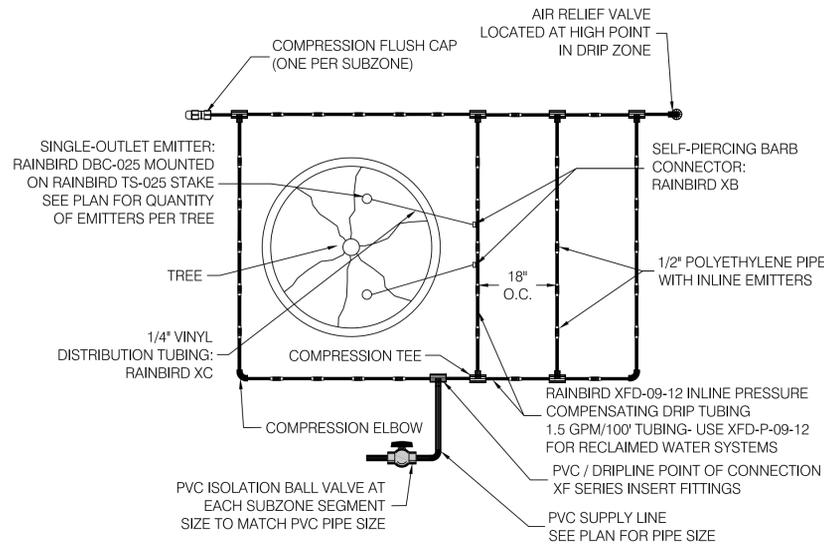


REVISIONS:
1.
2.
3.
4.

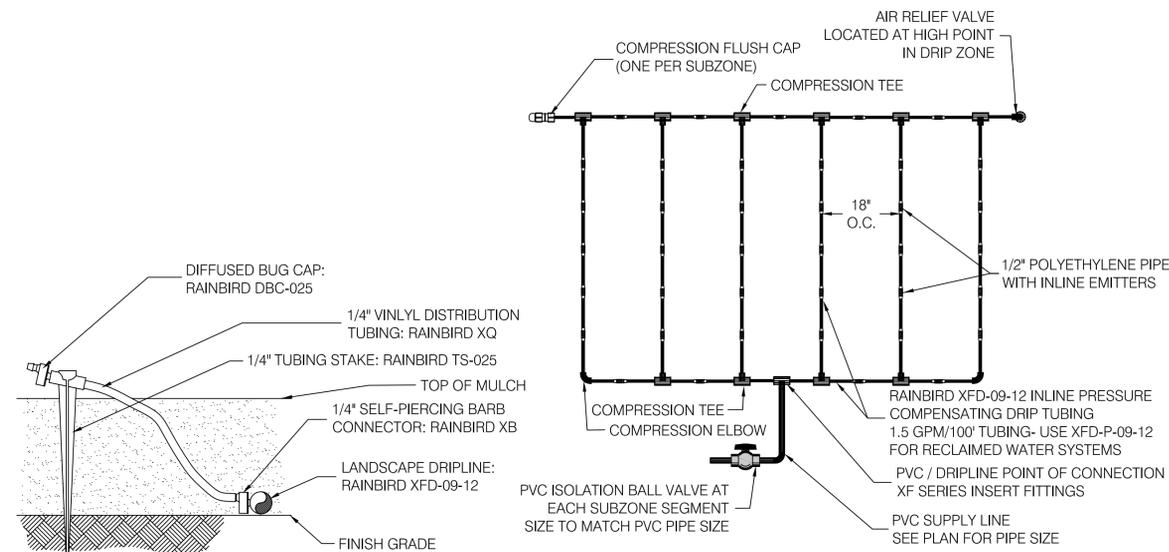




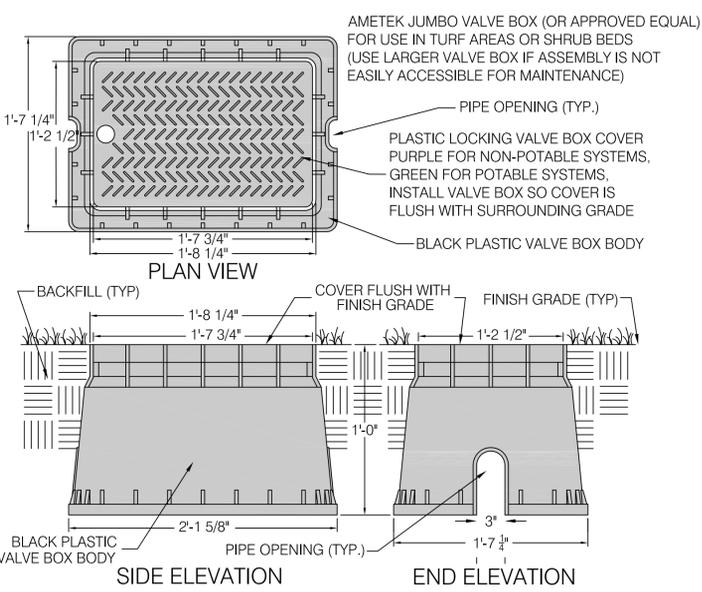
**1 IRRIGATION CONTROLLER**  
IR2 N.T.S.



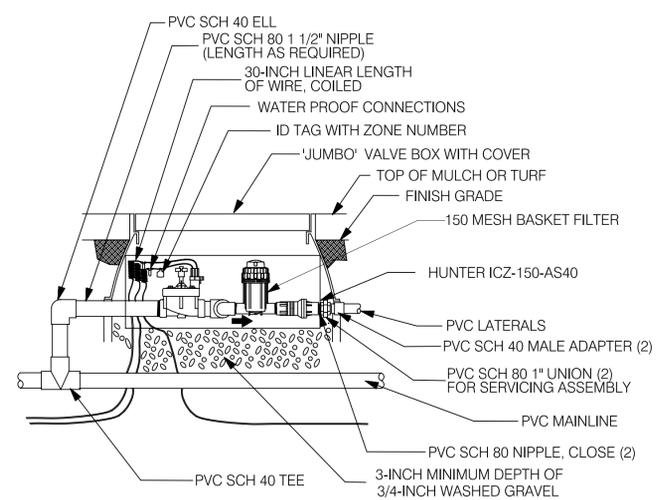
**2 DRIP IRRIGATION TREE EMITTER(S)**  
IR2 N.T.S.



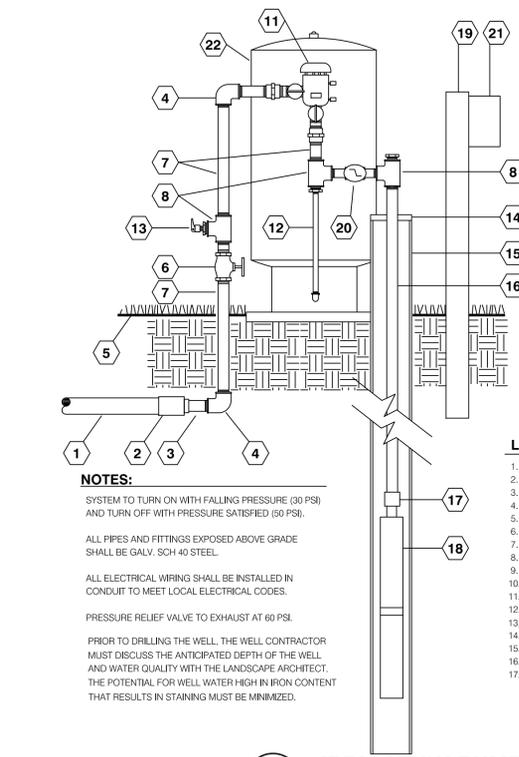
**3 DRIP IRRIGATION TUBING LAYOUT**  
IR2 N.T.S.



**4 JUMBO VALVE BOX DETAIL (DRIP ZONES)**  
IR2 N.T.S.



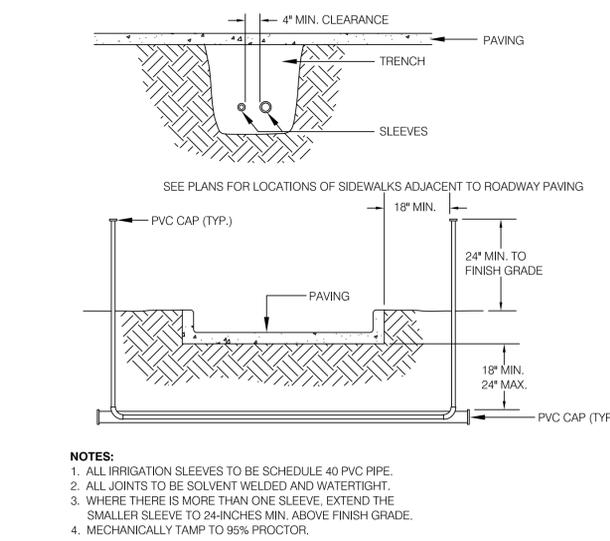
**5 DRIP ZONE VALVE**  
IR2 N.T.S.



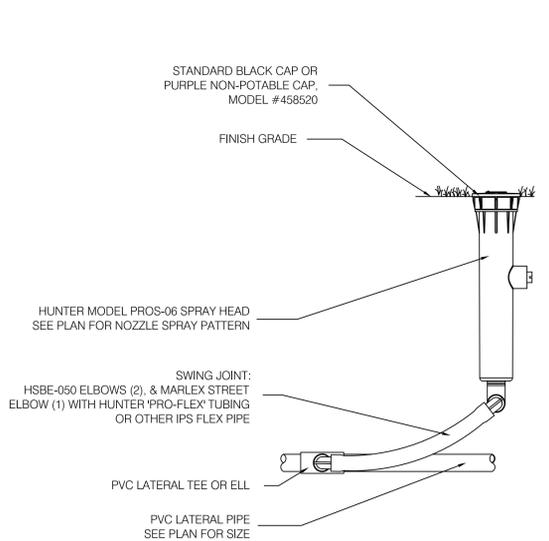
**6 IRRIGATION PUMP AND WELL**  
IR2 N.T.S.

- LEGEND:**
- SCH 80 PVC PIPE TO IRR. SYSTEM- SEE PLAN FOR SIZE
  - PVC SCH 80 COUPLING AND BUSHING
  - PVC SCH 80 TOE NIPPLE - 2" X 4"
  - GALV. SCH 40 90 DEG. ELL - 2"
  - FINISH GRADE
  - NIBCO T-113 GATE VALVE - 2"
  - GALV. SCH 40 NIPPLE (LENGTH AS REQ'D) - 2"
  - GALV. SCH 40 TEE - 2"
  - GARDEN VALVE - 3/4"
  - GALV. SCH 40 UNION - 2"
  - WATTS 903MGT PVB - 2"
  - GALV. SCH 40 NIPPLE (LENGTH AS REQ'D) - 1-1/4"
  - PRESSURE RELIEF VALVE - 1"
  - WELL SEAL - 5" X 2"
  - WELL CASING (LENGTH AS REQ'D) - 5"
  - GALV. SCH 40 DROP PIPE (LENGTH AS REQ'D) 2"
  - FLORAMATIC #80 BRASS CHECK VALVE 2"
  - SUBMERSIBLE PUMP- SIZE PUMP FOR SYSTEM
  - 4" X 4" CONCRETE POST (LENGTH AS REQ'D)
  - #CS3R CYCLE STOP PUMP CONTROL VALVE
  - MAGNETIC STARTER IN NEMA 3R ENCLOSURE
  - WELL-X-TROL PRESSURE TANK #WX-350-TK
  - PRE-FABRICATED CONCRETE PAD - 30" X 30"
  - GALV. SCH 40 90 DEG ELL - 1-1/4"
  - SQUARE D PRESSURE SWITCH #FSG-2
  - LIQUID FILLED PRESSURE GAUGE / 2-1/2" DIA. / 0-160 PSI
  - GALV. SCH 40 TEE - 1 1/4"
  - WATTS FBV-1 BRASS BALL VALVE - 1/4"
  - GALV. SCH 40 TEE - 1-1/4"
  - GALV. SCH 40 UNION - 1-1/4"

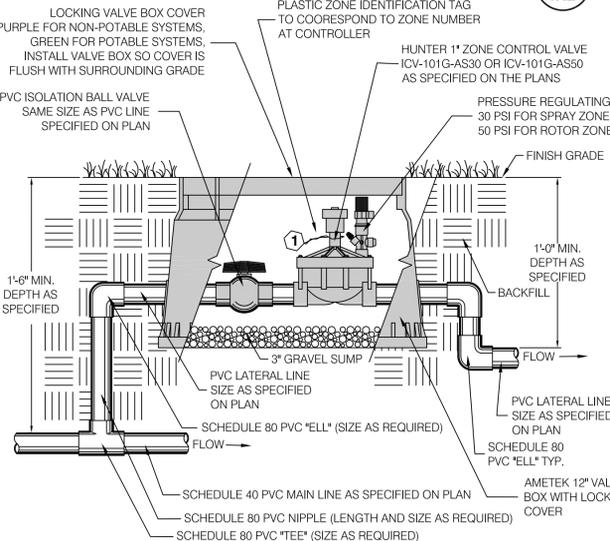
**NOTES:**  
SYSTEM TO TURN ON WITH FALLING PRESSURE (30 PSI) AND TURN OFF WITH PRESSURE SATISFIED (50 PSI).  
ALL PIPES AND FITTINGS EXPOSED ABOVE GRADE SHALL BE GALV. SCH 40 STEEL.  
ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT TO MEET LOCAL ELECTRICAL CODES.  
PRIOR TO DRILLING THE WELL, THE WELL CONTRACTOR MUST DISCUSS THE ANTICIPATED DEPTH OF THE WELL AND WATER QUALITY WITH THE LANDSCAPE ARCHITECT. THE POTENTIAL FOR WELL WATER HIGH IN IRON CONTENT THAT RESULTS IN STAINING MUST BE MINIMIZED.



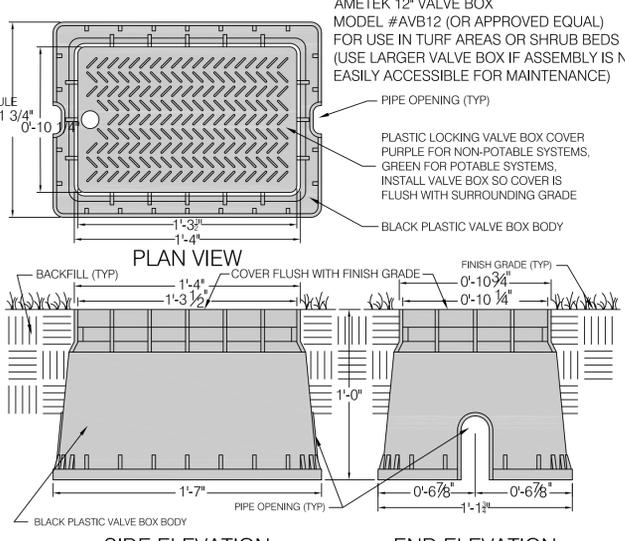
**7 SLEEVING DETAIL**  
IR2 N.T.S.



**8 6\"/>**



**9 1\"/>**



**10 VALVE BOX DETAIL (SPRAY & ROTOR ZONES)**  
IR2 N.T.S.

Copyright 2014 Heartwood and Bark, PLC



REVISIONS:	
1.	
2.	
3.	
4.	

DRAWN BY: JAZ  
DATE: 4/16/14  
**14015**  
IRRIGATION DETAILS  
**IR2**

JACOB ZIMMERMAN, RLA  
REG. NO. FL LA 0001653  
LANDSCAPE ARCHITECT

# MAP OF SURVEY

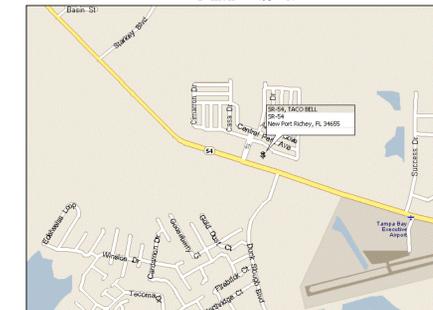
## A PORTION OF SECTION 30, TOWNSHIP 26 SOUTH, RANGE 17 EAST PASCO COUNTY, FLORIDA



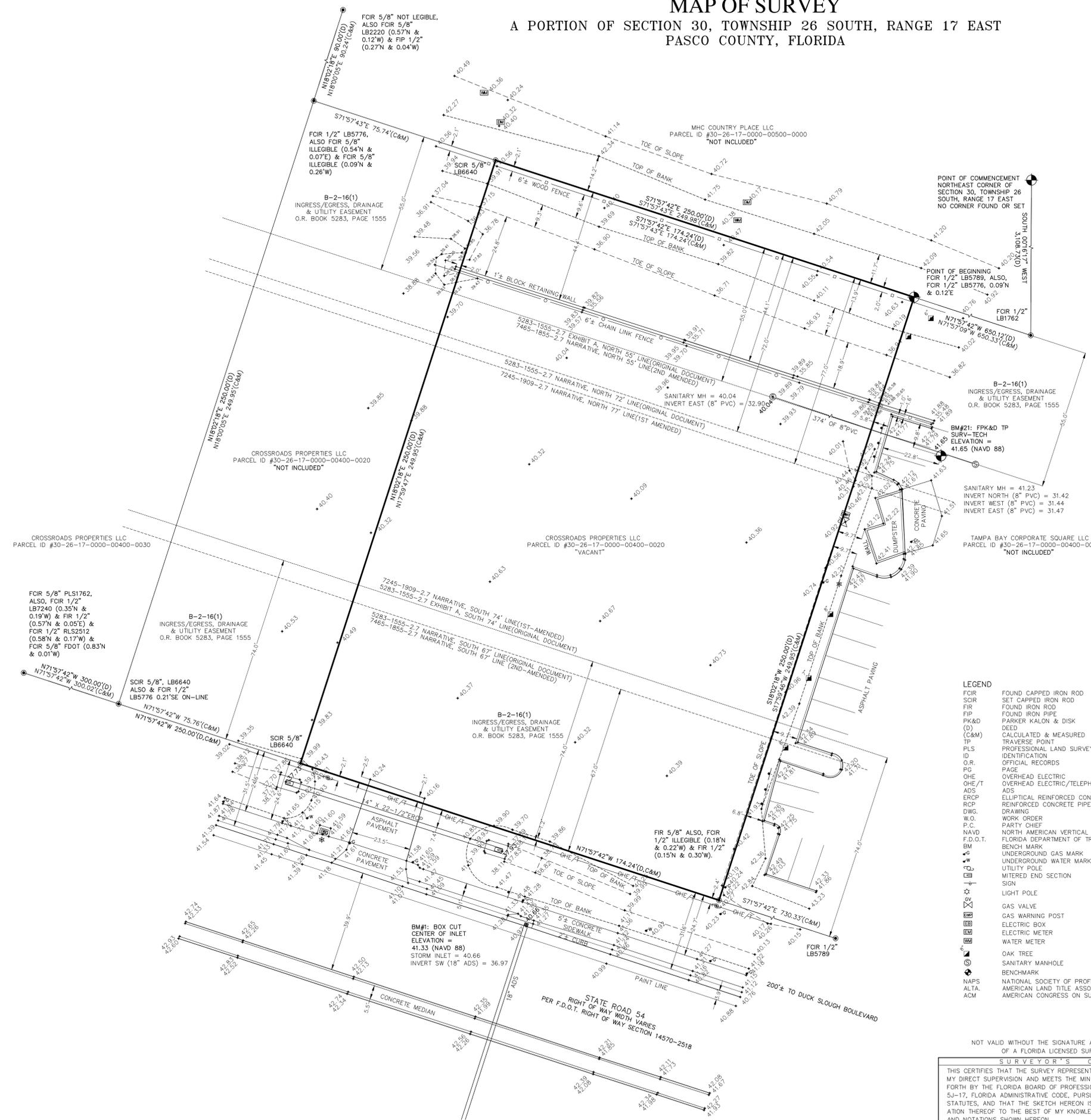
GRAPHIC SCALE



( IN FEET )  
1 inch = 20' ft.



LOCATION MAP  
NOT TO SCALE



- SURVEYOR'S NOTES:**
- BEARINGS BASED ON THE NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 54, ALSO BEING THE SOUTHERLY BOUNDARY OF SUBJECT PARCEL, AS NORTH 71°57'42" WEST.
  - ONLY ABOVE GROUND UTILITIES AND IMPROVEMENTS WERE LOCATED, NO UNDERGROUND UTILITIES, FOUNDATION OR ENCROACHMENTS LOCATED.
  - ADDITIONS OR DELETIONS TO THIS SURVEY OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTIES.
  - THE PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONE "X", BASED ON THE FLOOD INSURANCE RATE MAPS AT A SCALE OF 1" = 1000' AS ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FIRM MAP COMMUNITY PLAN NO. 120230 0360 D, DATED: SEPTEMBER 30, 1992.
  - VERTICAL DATUM FOR THIS SURVEY IS REFERENCED TO BSI & ASSOCIATES BENCHMARK #1, BM#1 AS BEING A NAIL & DISK STAMPED BSI LB 7078. LOCATED NEAR THE INTERSECTION OF STATE ROAD 54 & DUCK SLOUGH BOULEVARD AND APPROXIMATELY 69 FEET SOUTH OF THE INTERSECTION OF STATE ROAD 54, 1 FOOT NORTH OF SOUTH EDGE OF SIDEWALK ELEVATION 41.79' (NAVD88) AS PROVIDED BY PASCO COUNTY, FLORIDA FOR TRINITY VILLAGE CENTER A COMMERCIAL SUBDIVISION, PER PLAT BOOK 61, PAGE 119.
  - THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, CUSTOMER REFERENCE NUMBER: 133088, FILE NUMBER: 2061-3118705; COMMITMENT DATE: FEBRUARY 02, 2014 @ 8:00 A.M. THE BELOW REFERENCED ITEMS ARE NUMBERED AS THEY APPEAR IN THE FURNISHED TITLE BINDER, SCHEDULE B, SECTION 2:
    - ITEM 10. AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 667, PAGE 123, OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA. (NOT A MATTER OF SURVEY)
    - ITEM 11. GRANT OF EASEMENT IN FAVOR OF ALOHA UTILITIES, INC., A FLORIDA CORPORATION, RECORDED IN OFFICIAL RECORDS BOOK 747, PAGE 115, OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA. (DOES NOT APPLY TO PARCEL)
    - ITEM 12. AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 992, PAGE 1488, OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA. (NOT A MATTER OF SURVEY)
    - ITEM 13. DEDICATION OF AVIATION EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 1260, PAGE 1, OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA.
    - ITEM 14. RECIPROCAL EASEMENT AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 1362, PAGE 1456, OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA. (DOES NOT APPLY TO PARCEL)
    - ITEM 15. INTENTIONALLY DELETED.
    - ITEM 16. RESTRICTIONS, COVENANTS, CONDITIONS AND EASEMENTS, BUT OMITTING ANY COVENANTS OF RESTRICTIONS, IF ANY, BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAR STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, CONTAINED IN THAT CERTAIN DECLARATION OF PROTECTIVE COVENANTS AND GRANT OF EASEMENT FOR COMMERCIAL 54 CENTER RECORDED IN OFFICIAL RECORD BOOK 5283, PAGE 1555, AS AMENDED BY AMENDED AND RESTATED DECLARATION OF PROTECTIVE COVENANTS AND GRANT OF EASEMENT FOR COMMERCIAL 54 CENTER "A" RECORDED IN OFFICIAL RECORDS BOOK 7245, PAGE 1909, AND FURTHER AMENDED AND ASSIGNED BY INSTRUMENT RECORDED IN OFFICIAL RECORDS BOOK 7465, PAGE 1855, ALL OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA.
  - THIS SURVEY WAS PREPARED WITH THE BENEFIT OF OTHER SURVEYS PREPARED BY FORESIGHT SURVEYORS, PROJECT #22493, DATED, 09/17/03; EAGLE CONSULTANTS FILE #050123, DATED 10/28/05; WIMBROW YOUNG, INC., PROJECT #0-07.1005, DATED 05/15/07; GEOPINT SURVEYING, ORDER #KHA-TS-005, DATED 06/11/12; FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAPS FOR STATE ROAD 54, WPI #256336, DATED 4/20/99.
  - THE LEGAL DESCRIPTION FOR THIS SURVEYED PARCEL WAS CREATED FROM A PORTION OF THE LAND DESCRIBED IN OFFICIAL RECORDS BOOK 5594, PAGES 981-982 OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA.
  - TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE SOUTHERLY BOUNDARY OF THE PARCEL IS LYING ADJACENT TO THE NORTHERLY RIGHT OF WAY OF STATE ROAD 54 PER MONUMENTATION FOUND FOR THIS PROJECT.

- LEGEND**
- FCIR FOUND CAPPED IRON ROD
  - SCIR SET CAPPED IRON ROD
  - FIR FOUND IRON ROD
  - PIP FOUND IRON PIPE
  - PK&D PARKER KALON & DISK
  - (D) DEED
  - (C&M) CALCULATED & MEASURED
  - TP TRAVERSE POINT
  - PLS PROFESSIONAL LAND SURVEYOR
  - ID IDENTIFICATION
  - OR OFFICIAL RECORDS
  - PG PAGE
  - OHE OVERHEAD ELECTRIC
  - OHE/T OVERHEAD ELECTRIC/TELEPHONE
  - ADS ELLIPTICAL REINFORCED CONCRETE PIPE
  - ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
  - RCP REINFORCED CONCRETE PIPE
  - DWG. DRAWING
  - W.O. WORK ORDER
  - P.C. PARTY CHIEF
  - NAVD NORTH AMERICAN VERTICAL DATUM
  - F.D.O.T. FLORIDA DEPARTMENT OF TRANSPORTATION
  - BM BENCHMARK
  - UGM UNDERGROUND GAS MARK
  - UWM UNDERGROUND WATER MARK
  - UTP UTILITY POLE
  - MI MITERED END SECTION
  - SIGN SIGN
  - LP LIGHT POLE
  - GV GAS VALVE
  - GWP GAS WARNING POST
  - EB ELECTRIC BOX
  - EM ELECTRIC METER
  - WM WATER METER
  - OT OAK TREE
  - SMH SANITARY MANHOLE
  - BN BENCHMARK
  - NLS NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
  - ALTA AMERICAN LAND TITLE ASSOCIATION
  - ACM AMERICAN CONGRESS ON SURVEYING AND MAPPING

**Legal Description:** (Trinity TACO Bell Parcel, Surveyed Parcel)

A parcel of Land lying in a portion of Section 30, Township 26 South, Range 17 East, Pasco County, Florida, being more particularly described as follows:

Commence at the Northeast Corner of Section 30, Township 26 South, Range 17 East, Pasco County, Florida; thence South 00°16'17" West, along the Easterly boundary line of said Section 30, a distance of 3,108.73 feet; thence North 71°57'42" West, departing said Easterly boundary line of said Section 30, a distance of 650.12 feet to the Point of Beginning of the herein described parcel; thence South 18°02'18" West, a distance of 250.00 feet to a point on the Northerly right of way line of State Road 54; thence North 71°57'42" West, along said Northerly right of way line, a distance of 174.24 feet; thence North 18°02'18" East, departing said Northerly right of way line of State Road 54, a distance of 250.00 feet; thence South 71°57'42" East, a distance of 174.24 feet to the Point of Beginning.

Said parcel containing 43,560.0 square feet or 1.00 acres, more or less.

**SURVEYOR'S CERTIFICATION:**  
TO JEM RESTAURANT GROUP OF FLORIDA, INC., A FLORIDA CORPORATION, BMO HARRIS BANK, N.A., FIRST AMERICAN TITLE INSURANCE COMPANY, AND TRENAM, KEMKER, SCHARF, BARKIN, FRYE, O'NEILL & MULLIS, P.A.:

THIS IS TO CERTIFY, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 8, 9, 11(a), 13, 14, 16, 17, 18 and 19 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, THE UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, THE MAXIMUM RELATIVE POSITIONAL ACCURACY IS 1 : 565,586.667 FEET.

**ALTA/ACSM LAND TITLE SURVEY, BOUNDARY AND TOPOGRAPHIC SURVEY**

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

**SURVEYOR'S CERTIFICATE**

THIS CERTIFIES THAT THE SURVEY REPRESENTED HEREON WAS PERFORMED UNDER MY DIRECT SUPERVISION AND MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS CHAPTER 6J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, AND THAT THE SKETCH HEREON IS A TRUE AND ACCURATE REPRESENTATION THEREOF TO THE BEST OF MY KNOWLEDGE AND BELIEF, SUBJECT TO NOTES AND NOTATIONS SHOWN HEREON.

DATE OF FIELD SURVEY 02/18/14 CHARLES DAVID FERRARO - REGISTERED LAND SURVEYOR FLORIDA CERTIFICATION NO. 4768

**FLD&E SURVEYING**  
4519 GEORGE RD. SUITE 130, TAMPA, FL 33634 • (813) 880-9623 • FAX: (813) 880-9055

**JEM RESTAURANT GROUP OF FLORIDA**

DWG: 2014-001  
LICENSE BUSINESS #6640

DATE: 02/12/14 FIELD BOOK: 665 PAGE: 66-70 W.O. NUMBER: 2014-001  
CHECKED BY: C.D.F. DATE: 02/18/14 SCALE: 1" = 20' P.C.T. SPITLER

SHEET 1 OF 1

F:\jgenseng\13-000 TRINITY SURVEY\021014TACO.dwg, FLD&E 24x36, 5/9/2014, 2:08:29 PM, Rich, 1:1, RMB