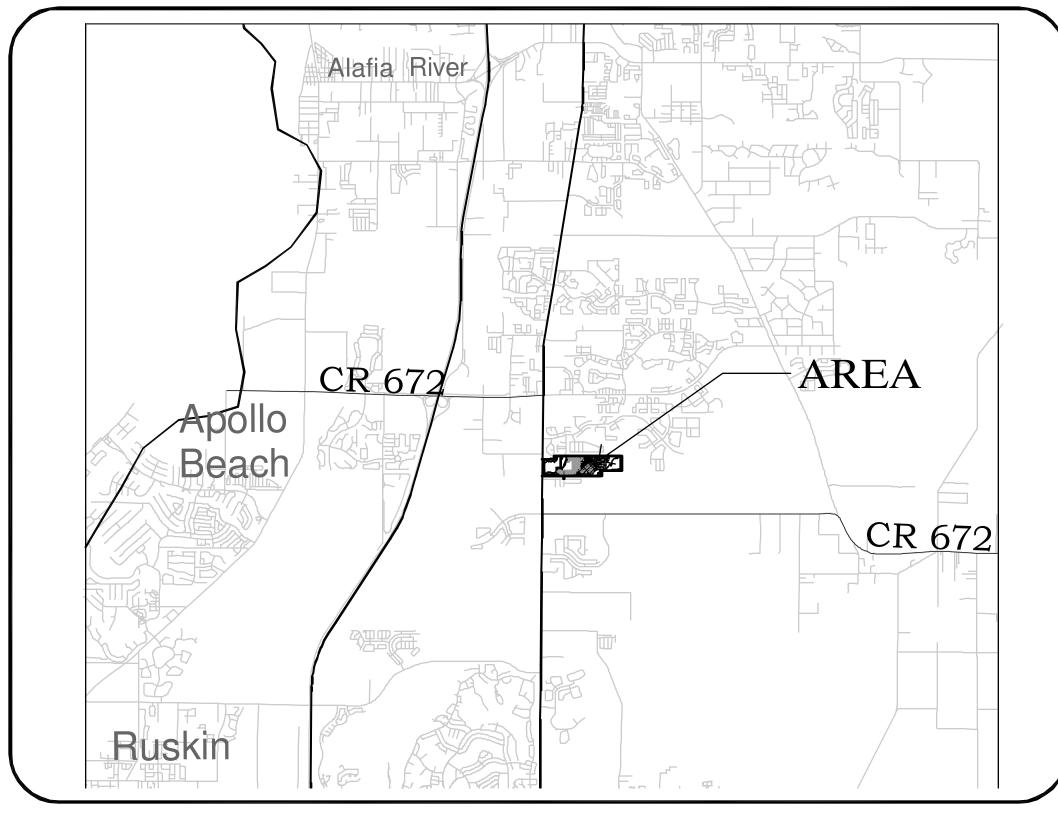
THE OAKS AT SHADY CREEK, PHASE 1

(aka CREEKSIDE PARK PHASE 1 OR

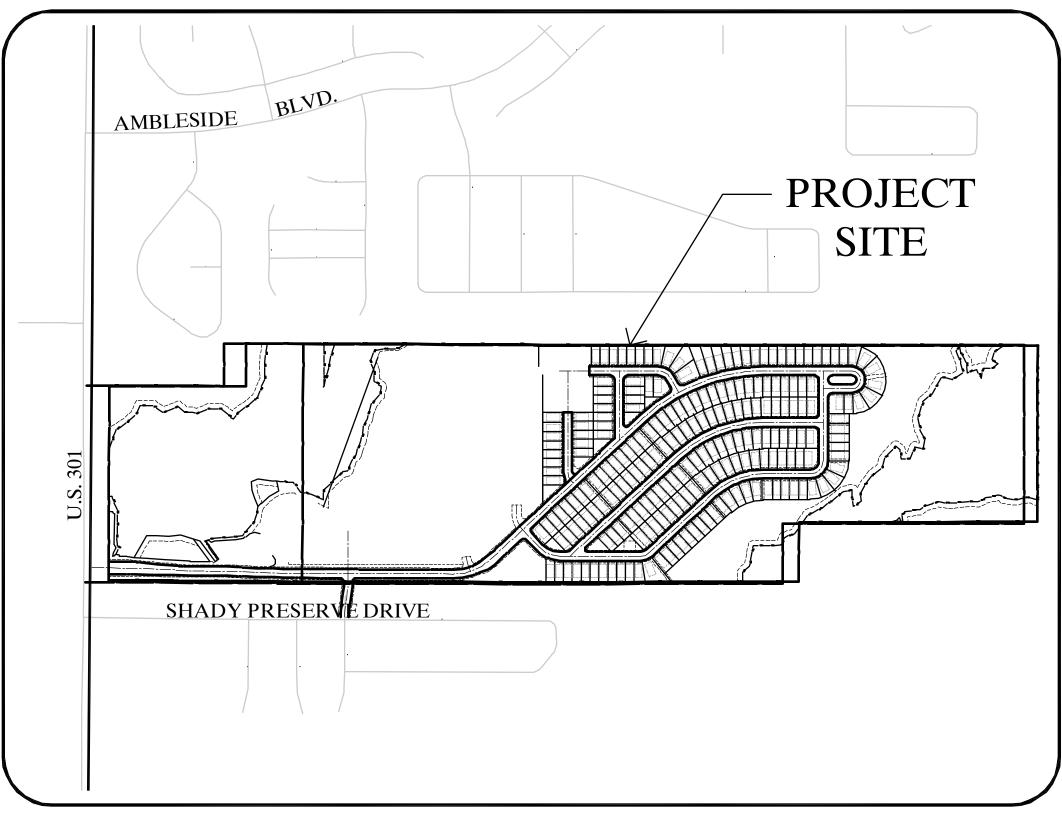
SHADY CREEK PRESERVE II PHASE 1) CONSTRUCTION DOCUMENTS

SECTION 17, TOWNSHIP 31 S, RANGE 20 E

HILLSBOROUGH COUNTY, FLORIDA



LOCATION MAP



VICINITY MAP

PARCEL ID#'s -

U-17-31-20-ZZZ-000003-15060.0 U-17-31-20-ZZZ-000003-14911.1

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	SUBMITTAL	TAL	SUBMITTAL		
	D SUBA	SUBMIT			DRAWING INDEX
FDOT	SWFWMD	ОТІ LІТҮ SUBМІТТАL	COUNTY/CITY	SHEET NUMBER	SHEET TITLE
*	-	<u>`</u>	Н	C1.01	COVER SHEET
\vdash	*	Н	Н	C1.02-C1.03	NOTES AND LEGENDS
\vdash	*		*	C1.04	FDOT NOTES
Ë	*		*	C1.05	CONSTRUCTION POLLUTION PREVENTION PLAN
*	*		*	C2.00	LIMITS OF CONSTRUCTION
H	*		*	C2.01-C2.09	DEMOLITION AND SITE PREPARATION PLAN
*			*	C3.01-C3.08	SIGNING, PAVEMENT MARKING AND DIMENSION PLAN
*	*		*	C4.01-C4.08	PAVING, GRADING AND DRAINAGE PLAN
*	*		*	C4.09-C4.10	POND GRADING PLAN
Г	*		*	C4.11	MASS GRADING PLAN
	*		*	C4.12-C4.13	WETLAND MITIGATION CONSERVATION AREA 1
	*		*	C4.14	MITIGATION AREA NOTES AND DETAILS
Г	*		*	C4.15	MASTER IMPACT PLAN
	*		*	C4.21	AMENITY CENTER GRADING PLAN
*				C4.31	FDOT DRIVEWAY PLAN AND DETAILS
	*		*	C4.41	OVERALL DRAINAGE MAP
		*	*	C5.01-C5.08	SANITARY SEWER AND WATER DISTRIBUTION PLAN
		*	*	C5.09	WASTEWATER MASTER UTILITY PLAN
		*	*	C5.10	WATER MASTER UTILITY PLAN
	*	*	*	C6.01-C6.07	PROFILES
*	*		*	C7.01-C7.02	TYPICAL SECTIONS AND DETAILS
*	*		*	C8.01	EROSION CONTROL DETAILS
	*		*	C9.01-C9.04	GRADING DETAILS
L	*		*	C10.01-C10.02	STORM SEWER DETAILS
		*	*	C11.01-C11.02	WATER DISTRIBUTION DETAILS
		*	*	C12.01-C12.02	SANITARY SEWER DETAILS
			*	L1.01-L1.08	STREET TREE PLAN
L	L		*	IR1.01-IR1.08	CODE IRRIGATION PLAN
		*	*	M1.01	PUMP STATION LAYOUT AND SITE PLAN
		*	*	M1.02	PUMP STATION DESIGN PARAMETERS
		*	*	M1.03-M1.04	PUMP STATION MECHANICAL DETAILS
		*	*	S1.01	PUMP STATION STRUCTURAL PLAN
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FOR:

LENNAR HOMES, LLC

4600 WEST CYPRESS ST., SUITE 200 TAMPA, FL 33607

BY:



One Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone 813 880-8881
Fax 813 880-8882
www.kingengineering.com
Engineering License #2610

				 	
				JOB NO.	SHEET NO.
				4802-700-001	
				DATE:	
				09/13/2013	C1.01
<u> </u>				SCALE:	
				AS SHOWN	
					ANGTELICTION
NO.	DATE	DESCRIPTION	APP'D BY	ISSUED FOR CONSTRUCTION OCTOBER 9, 2014	

FDOT
ACCESS #: 2013-A-796-42
DRAINAGE #: 2013-D-796-41
STATE ROAD: 43 US. 301
SECTION #: 10010-000
MILE POST: 10.531 RT.
ROAD CLASS: (3)

Permit Type	Permit No.	Status
A.C.O.E.	SAJ-2005-00564 (LDD)	Approved
S.W.F.W.M.D.	43028393.002	Approved
F.D.E.P. (Water)	0125332-1431-DSGP-DEP	Approved
F.D.E.P. (Sewer)	0323965-001-DWC	Approved
N.P.D.E.S.	FLR10NT28	Approved
HILLSBOROUGH COUNTY	#2100	Approved

- GENERAL NOTES

- ALL PRACTICABLE AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIAL TO INLETS, SURFACE DRAINS, WETLANDS AND LAKE AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE
- 2. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 3. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER THE WETLAND CONSERVATION AREAS THAT ARE DESIGNATED TO REMAIN. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINE RESULTING FROM HIS VIOLATION OF PERMIT
- 4. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT EXISTING TREES TO BE SAVED REMAIN UNDAMAGED DURING CONSTRUCTION. REFERENCE LANDSCAPE AND LAND ALTERATION ORDINANCE.
- 5. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES TO BE EXTENDED OR CROSSED AND CONTACT THE ENGINEER AT (B13) 880-8881 FOR RESOLUTION OF ANY CONFLICTS BETWEEN FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.
- 6. IT IS THE ENGINEER OF RECORD RESPONSIBILITY TO FIELD LOCATE ALL VISIBLE UTILITIES AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY. THE CONTRACTOR SHALL NOTIFY "SUNSHINE" (1-800-432-4770) AND ALL UTILITY COMPANIES IN THE AREA 5 DAYS IN ADVANCE OF BEGINNING
- 7. CONTRACTOR TO REMOVE AND DISPOSE OF ALL EXISTING OCCUPATION AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE OWNER RETAINS THE RIGHT TO KEEP ANY OCCUPATION DEEMED
- 8. DIGITAL OR ELECTRONIC REPRESENTATION OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A COORDINATE CONTROL MAP OR MATHEMATICALLY CONTROLLED INFORMATION FOR THE USE OF CONSTRUCTION STAKEOUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR CONTRACTOR'S SURVEYOR TO ENSURE THAT ANY DIGITAL OR ELECTRONIC REPRESENTATION OF THESE PLANS IS IN COMPLETE CONFORMANCE WITH ALL OF THE NOTATIONS, SPECIFICATIONS, DETAILS AND OTHER DATA APPEARING ON OR AS MAY BE DERIVED FROM THESE CONSTRUCTION PLANS.
- 9. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING MAINTENANCE OF TRAFFIC PLANS AS
- 10. EXISTING WELL(S) WITHIN THE LIMITS OF DISTURBANCE SHALL BE SEALED AND ABANDONED BY A LICENSED WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531. OWNER RESERVES THE RIGHT TO TRANSFER ANY EXISTING WATER USE RIGHTS TO OTHER EXISTING OR PROPOSED WELL(S).
- 11. CONTRACTOR RESPONSIBLE FOR REPAIR AND REPLACEMENT OF INFRASTRUCTURE / FACILITIES WITHIN R/W THAT ARE DAMAGED DURING CONSTRUCTION ACTIVITY.
- 12. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HILLSBOROUGH COUNTY STANDARDS AND SPECIFICATIONS.
- 13. THE WETLAND CONSERVATION AREA SHALL BE RETAINED IN A NATURAL STATE PURSUANT TO THE HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE (LDC) AS AMENDED; THE HILLSBOROUGH COUNTY ENVIRONMENTAL PROTECTION ACT, CHAPTER 84-446; AND CHAPTER 1-11, RULES OF THE HILLSBOROUGH COUNTY ENVIRONMENTAL PROTECTION COMMISSION. IN ADDITION, A 30 FOOT SETBACK FROM THE WETLAND CONSERVATION AREA IS REQUIRED AND SHALL CONFORM TO THE PROVISIONS STIPULATED WITHIN THE HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE.

KING'S SURVEYOR'S NOTES

. TYPE OF SURVEY: BOUNDARY SURVEY. ANY USE OF THIS SURVEY FOR PURPOSES OTHER THAN WHICH I WAS INTENDED, WITHOUT WRITTEN VERIFICATION, WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE SURVEYOR. NOTHING HEREIN SHALL BE CONSTRUED TO GIVE ANY RIGHTS OR BENEFITS TO ANYONE OTHER THAN THOSE CERTIFIED TO.

2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ORDER NUMBER 4437221, EFFECTIVE DATE JUNE 19, 2013 AT 8:00 AM. (SEE SCHEDULE B SECTION II NOTES, THIS SHEET)

3. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO OR PURSUED BY THE UNDERSIGNED OTHER THAN THOSE SHOWN HEREON. EASEMENTS OR RESTRICTIONS OF RECORD OTHER THAN THOSE SHOWN HEREON MAY EXIST.

4. NO EXCAVATION WAS PERFORMED TO VERIFY THE LOCATION OR EXISTENCE OF ANY UNDERGROUND IMPROVEMENTS, STRUCTURES, OR FOUNDATIONS. UNDERGROUND UTILITIES SHOWN HEREON ARE SHOWN PER ABOVE GROUND EVIDENCE AND OR RECORD DRAWINGS OR MUNICIPAL ATLAS INFORMATION AND THE LOCATION OF ALL UNDERGROUND UTILITY LINES ARE APPROXIMATE ONLY. THIS DOCUMENT SHOULD NOT BE RELIED UPON FOR EXCAVATION OR CRITICAL DESIGN FUNCTIONS WITHOUT FIELD VERIFICATION OF UNDERGROUND UTILITY LOCATIONS. UTILITIES OTHER THAN THOSE SHOWN HEREON MAY EXIST.

5. THE SURVEY DEPICTED HEREON IS NOT INTENDED TO SHOW THE LOCATION OR EXISTENCE OF ANY WETLAND OR JURISDICTIONAL AREAS, OR AREAS OF PROTECTED SPECIES OF VEGETATION EITHER NATURAL

6. UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT

7. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

8. ADJOINING PROPERTY OWNERS SHOWN HEREON ARE BASED ON INFORMATION OBTAINED FROM THE COUNTY PROPERTY APPRAISER WEB SITE AND IS FOR INFORMATIONAL PURPOSES ONLY.

9. BEARINGS SHOWN HEREON, AND QUALIFIED AS (M) FOR MEASURED ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM. APPLICABLE ZONE, NAD 83 (2007) AND ARE DERIVED BY MULTIPLE REAL-TIME KINEMATIC GPS OBSERVATIONS. BEARINGS SHOWN HEREON, AND QUALIFIED AS (D) FOR DEED/LEGAL, (P) FOR PLAT ARE A MEANS TO REFERENCE THE SURVEYED PARCEL TO THE DEED OR PLAT OF RECORD. MORE SPECIFICALLY THE NORTH LINE OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 17, AS BEING NORTH 89:44'45" WEST.

10. SECTION CORNERS SHOWN WITH AN ASTERISKS (*) ON THE SECTION DETAIL (SEE THIS SHEET) ARE AS SHOWN ON THAT CERTAIN BOUNDARY SURVEY TITLE "SOUTH FORK - PHASE 6" PREPARED BY KING ENGINEERING ASSOCIATES, INC., DATED 1-09-04 AND WERE NOT FIELD VERIFIED FOR THIS SURVEY.

11. LAST DATE OF FIELD SURVEY: 10/11/2013

12. ELEVATIONS SHOWN HEREON ARE IN FEET AND ARE BASED ON HILLSBOROUGH CO. BENCHMARK "VC-273" H.C.S.D. ALUMINUM BM DISK IN CURB INLET HAVING A PUBLISHED ELEVATION OF 60.147 (NAVD88)

PAVING, GRADING & DRAINAGE NOTES

- 1. ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, IRRIGATION, CABLE TV AND TELEPHONE CROSSINGS SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION. CONTRACTOR TO COORDINATE INSTALLATION OF ANY ADDITIONAL CONDUIT LOCATIONS WITH OWNER.
- 2. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HILLSBOROUGH COUNTY STANDARDS AND SPECIFICATIONS.
- 3. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES FOR INLETS AND MANHOLES. STATION OFFSETS (LT OR RT) REFER TO CENTER OF STRUCTURES FOR MANHOLES. ALL PIPE LENGTHS ARE PLUS OR MINUS. ALL PIPE LENGTHS INCLUDE END TREATMENT.
- 4. ALL CURB CUT RAMPS TO BE CONSTRUCTED PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS (FDOT INDEX 304) AND BE ADA COMPLIANT INCLUDING USE OF TRUNCATED DOME TACTILE SURFACE
- 5. ALL EARTHWORK, PLACEMENT OF FILL AND PAVEMENT PREPARATION TO CONFORM TO THE MORE STRICT OF THE HILLSBOROUGH COUNTY TECHNICAL SPECIFICATIONS OR THE REPORT OF GEOTECHNICAL INVESTIGATION ENTITLED SHADY CREEK PRESERVE II BY FAULKNER ENGINEERING SERVICES (FES PROJECT No. 13-2064) DATED OCTOBER 17, 2013 AND THE THE REPORT OF GEOTECHNICAL EXPLORATION POND AND ROADWAY STUDY BY GROUND DOWN ENGINEERING, INC. DATED SEPTEMBER 2005.
- 6. TERMINATION OF BOTH FDOT TYPE "F" AND 6" VERTICAL CURB SHALL INCLUDE A 3' TRANSITION TO FLUSH UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.
- 7. EXTRA MATERIAL IS REQUIRED PER FDOT INDEX 205 (SHEET 1 OF 5) AROUND STORM PIPE MEETING COVER CRITERIA OF SAID INDEX.
- 8. JOINTS OF STORM SEWER SHALL BE STAGGERED FOR CROSSINGS OF THE SANITARY SEWER WITH LESS THAN 18 INCHES OF VERTICAL CLEARANCE SO THAT THE PIPE BELL IS NOT LOCATED AT THE CROSSING.
- 9. AS A COST SAVINGS MEASURE STORM STRUCTURES WITH MULTIPLE PIPE CONNECTIONS MAY BE OFFSET FROM THE CENTER OF THE STRUCTURE TO REDUCE THE OVERALL STRUCTURE SIZE, CONTRACTOR IS TO COORDINATE OFFSET CONNECTIONS WITH APPROPRIATE SUB CONTRACTORS INCLUDING PROJECT
- 10. POND T.O.B. LINE INDICATES TOP OF BANK; I.E., THE POINT AT WHICH THE SLOPE BEGINS. T.O.F. INDICATES TOP OF FREEBOARD.
- 11. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE REMAINING ON SITE UNLESS APPROVED BY THE COUNTY.
- 12. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY PROVISIONS OF LAND DEVELOPMENT CODE SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS
- 13. THE PROJECT LIES WITHIN FLOOD ZONE "X" AND "AE PER F.E.M.A. FIRM COMMUNITY PANEL NO: 12057C 0515H, DATED AUGUST 28, 2008.
- 14. ALL STORM DRAIN STRUCTURES TO CONFORM THE "FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM" MANUAL DATED JANUARY 2010 OR LATEST EDITION, OR THE HILLSBOROUGH COUNTY TRANSPORTATION TECHNICAL MANUAL DATED SEPTEMBER 2009.
- 15. ALL PROPOSED STORM GRATES, RING & COVERS AND SANITARY SEWER RING & COVERS TO MEET H-20 LOADING RATING. ALL STORM GRATES TO BE HOT DIPPED GALVANIZED RETICULINE STEEL GRATES. ALL EXISTING STRUCTURES TO BE MODIFIED AS REQUIRED TO MEET H-20 LOAD RATING AND ADJUSTED TO MEET PROPOSED GRADE.
- 16. THE STAKED SILT FENCE SHALL BE INSTALLED PRIOR TO EARTHWORK OPERATIONS COMMENCING AND IS TO BE MAINTAINED THROUGH PROJECT COMPLETION.
- 17. ALL SWALES SHALL BE SODDED AS SHOWN ON THE SECTIONS.
- 18. STORM SEWER PIPE LINES WILL NOT BE INSTALLED PRIOR TO PLACEMENT AND ALIGNMENT OF INLET STRUCTURES.
- 19. NO EXCAVATION SHALL EXTEND BELOW THE PERMITTED DESIGN DEPTHS/ELEVATIONS SHOWN ON THE DRAWINGS, UNLESS ADDITIONAL TESTING SUPPORTS OTHERWISE; AND NO LOWER SEMI-CONFINING UNIT CLAYEY SOIL MATERIAL AND/OR LIMESTONE MATERIALS SHALL BE EXCAVATED, REGARDLESS IF THESE MATERIALS ARE ENCOUNTERED WITHIN THE PERMITTED EXCAVATION DEPTHS/ELEVATIONS. IF ABOVE THE PERMITTED DEPTHS/ELEVATIONS, THEN EXCAVATION OPERATIONS SHALL CEASE IN THE GENERAL AREA. EPC WETLANDS MANAGEMENT STAFF MUST BE CONTACTED PRIOR TO ANY EXCAVATION OF CLAYS. * IN THE ABSENCE OF ANY CONFINING OR SEMI-CONFINING UNIT CLAYEY SOILS. A MINIMUM OF FIVE FEET OF UNDISTURBED SOILS SHALL REMAIN ABOVE THE UNDERLYING LIMESTONE, ANY EXCAVATION BELOW THE ELEVATIONS SHOWN ON THE PLANS WILL REQUIRE A APPROVED PERMIT MODIFICATION FROM SWFWMD PRIOR TO START OF WORK.

HILLS AND ASSOCIATES SURVEYOR'S NOTES

- . THE SURVEY SHOWN HEREON WAS PREPARED WITHOUT THE BENEFIT OF A TITLE POLICY AND IS SUBJECT TO ANY AND ALL RECORDED AND OR UNRECORDED EASEMENTS, RIGHTS OF WAY, RESTRICTIONS, ETC..
- 2. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS WERE LOCATED AS A PART OF THIS SURVEY.
- 3. NO EVIDENCE OF CEMETERIES OR BURIAL GROUNDS WAS FOUND ON SITE AT TIME OF SURVEY.
- 5. BEARINGS SHOWN HEREON ARE BASED UPON ASSUMED DATUM, MORE SPECIFICALLY THE SOUTH LINE OF THE SOUTHWEST 1/4 OF SECTION 17, TOWNSHIP 31 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA. SAID LINE HAS A BEARING OF: N89'44'36"W.
- 6. THE LEGAL DESCRIPTION SHOWN HEREON WAS TAKEN FROM OFFICIAL RECORD BOOKS 6406, PAGE 1951 AND 6255 PAGE 992 OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.
- 7. THE WETLAND LINE SHOWN HEREON AS HAVING A LINE LABEL FROM L1 TO L79 WAS TAKEN FROM A SPECIFIC PURPOSE SURVEY AS PREPARED BY BURCAW & ASSOCIATES, INC., HAVING A JOB NUMBER S2-474 AND A DRAWING DATE OF 02/04/2002.
- 8. NO INTERIOR OCCUPATION OR IMPROVEMENTS HAVE BEEN LOCATED.

4. BEARINGS AND DISTANCES ARE FIELD MEASURED UNLESS OTHERWISE NOTED.

- SANITARY SEWER ·

& WATER DISTRIBUTION NOTES

- 1. ALL ON-SITE PVC WATER MAINS 4-12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C-900 STANDARDS. ALL ON-SITE PVC WATER MAINS 2-3 INCHES SHALL BE CLASS 1120 OR 1220 (SDR 21 AND MEET REQUIREMENTS OF ASTM D-2241. WATER MAINS SMALLER THAN 2 INCHES SHALL BE CLASS 1120 OR 1220 SCHEDULE 80 AND MEET REQUIREMENTS OF ASTM D-1785. PE PIPE 2" OR SMALLER SHALL MEET THE REQUIREMENTS OF ASTM D-1248. ALL GRAVITY SEWER LINES ARE PVC SDR-26 AND MEET THE REQUIREMENTS OF ASTM D3034 UNLESS OTHERWISE SHOWN ON PLANS OR PROFILES. ALL FORCE MAINS 4" TO 12" TO BE GREEN PVC C-900 SDR 18 AND 16" PVC FORCEMAIN TO BE C905 SDR
- 2. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARDS A21.51. MINIMUM CLASS 50. IN AREAS WHERE THE SOIL IS DETERMINED TO BE CORROSIVE OR HIGH GROUND WATER IS EXPECTED. THE PIPE SHALL BE INSTALLED IN LOOSE POLYETHYLENE ENCASEMENT NOT LESS THAN 8 MILS THICK AND INSTALLED IN ACCORDANCE WITH ANSI SPECIFICATION A21.51. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HILLSBOROUGH COUNTY STANDARDS AND SPECIFICATIONS.
- 4. CONFLICTS OF WATER, SANITARY AND STORM SEWER, TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
- 5. ALL WATER MAINS AND PVC CONDUIT TO BE CONSTRUCTED WITH MINIMUM 3 FEET OF COVER.
- 6. APPROXIMATE WATER LINE DISTANCES SHOWN ARE BETWEEN CENTERS OF MAIN FITTINGS. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED FOR A COMPLETE WATER SYSTEM IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES.
- 7. NO DEBRIS SHALL BE ALLOWED TO ENTER THE EXISTING SANITARY SYSTEM.
- 8. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID 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.
- 9. 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 JOINTS. 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.
- 10. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER THE WATER MAIN. THE CRITERIA FOR MINIMUM SEPARATION OF 18-INCHES BETWEEN LINES AND 10 FEET BETWEEN JOINTS SHALL BE REQUIRED.
- 11. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
- 12. A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- 13. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER.
- 14. 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 THE 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 ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
- 15. ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL
- 16. THE CONTRACTOR/ENGINEER OF RECORD MUST CONTACT THE HILLSBOROUGH COUNTY WATER DEPT. UTILITY INSPECTION SECTION AND LINE MAINTENANCE TO SET UP THE PRE CONSTRUCTION MEETING. CONTACT WILLIE LAVANDERIA AT 307-8373 FOR INSPECTIONS AND THE SOUTH/CENTRAL LINE MAINTENANCE UNIT AT 671-7604 OR THE NORTHWEST LINE MAINTENANCE UNIT AT 554-5010.
- 17. THE LOCATION OF ALL NEWLY INSTALLED FIRE HYDRANTS SHALL BE IDENTIFIED WITH A BLUE REFLECTIVE PAVEMENT MARKER INSTALLED ON THE ROADWAY, PERPENDICULAR TO THE FIRE HYDRANT. THE REFLECTIVE MARKER WILL BE LOCATED IN THE CENTER OF THE LANE CLOSEST TO THE HYDRANT.
- 18. ALL NON-METALLIC PIPE WILL BE INSTALLED WITH 2 PAIR 10 GAUGE COPPER TRACER WIRE AND MEET THE REQUIREMENTS OF HILLSBOROUGH COUNTY TECHNICAL MANUAL
- 19. FHA EL= REFERENCE FLANGE ELEVATION
- 20. THE ENGINEER OF RECORD AND/OR CONTRACTOR WILL BE RESPONSIBLE FOR THE FLOW TESTING AND COLOR CODING OF ALL NEWLY INSTALLED FIRE HYDRANTS IN THE EXISTING OR PROPOSED HILLSBOROUGH COUNTY RIGHT OF WAY AND UTILITY EASEMENTS THAT ARE TO BE DEDICATED TO HILLSBOROUGH COUNTY PRIOR TO THE FINAL INSPECTION OF THE PROJECT. THE ENGINEER OF RECORD AND/OR CONTRACTOR SHALL REFER TO NFPA STANDARDS 291 FOR FLOW TESTING AND COLOR CODING MÉTHODS AND PROCEDURES.

- SITE DATA

LAND USE:	R4
ZONING DISTRICT:	PD
PROPOSED USE:	SINGLE FAMIL
SITE AREA:	148.15 AC
DEVELOPABLE UPLAND SITE AREA: (PRIOR TO IMPACTS)	96.6 AC
MAXIMUM LOT COVERAGE:	50%
MAXIMUM BUILDING HEIGHT:	35'

220 UNITS TOTAL UNITS PROPOSED:

PROPOSED SITE COVERAGE

16.16 AC (11%) **BUILDINGS:** POND: 9.67 AC (7%) PAVEMENT: 7.04 AC (6%) WETLAND: 51.55 AC (34%) 63.73 AC (42%) **OPEN SPACE:** TOTAL: 148.15 AC (100%)

SETBACKS: FRONT 20', REAR 20' & SIDE 5' MIN. AND 15' FOR REAR YARDS THAT FUNCTION AS SIDE YARDS.

- EROSION AND SEDIMENTATION CONTROL

THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.

- 2. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR SYNTHETIC BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHOULD BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES, AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
- 3. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM THE CONSTRUCTION AREA, THE WATER SHALL BE TREATED TO REDUCE TURBIDITY TO STATE WATER QUALITY STANDARDS PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE, FOR EXAMPLE. TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
- 4. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOIL STABILIZED. 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.
- 5. WATER REMAINING IN THE EXCAVATIONS AFTER CONSTRUCTION MUST BE KEPT CONFINED WITHIN THE EXCAVATIONS PRIOR TO DISCHARGE (IF APPLICABLE), UNTIL THE TURBIDITY LEVEL OF THE POND WATER MEETS STATE WATER QUALITY STANDARDS.
- 6. NO CLAY MATERIAL SHALL BE LEFT EXPOSED IN THE EXCAVATIONS. IF CLAY OR SANDY CLAYS ARE LEFT EXPOSED AT THE PERMITTED DEPTH. THE CONTRACTOR SHALL OVER EXCAVATE THE POND'S BOTTOM AND SIDE SLOPES BY A MINIMUM OF 12 INCHES AND BACKFILL WITH CLEAN SANDS.
- 7. PROVIDE ALL DISTURBED AREAS WITHIN THE LIMITS OF THE WORK WITH TEMPORARY SOIL EROSION CONTROL AND SEDIMENT CONTROL, UTILIZING EARTH DAMS & PONDS, GRADE TO DRAIN SWALES, SETTLING BASINS, SILT FENCES, STONE FILTERS, SYNTHETIC BALE FILTERS, ETC., TREATING ALL SOIL SURFACES WITH SEEDED TOPSOIL AND / OR MULCH AFTER GRADING.
- B. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS
- 9. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS SHALL BE COMPLIED WITH AT ALL TIMES.
- 10. TO MINIMIZE SOIL EROSION, PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES (I.E. SYNTHETIC BALES, BAFFLES, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.
- 11. PERMANENT VEGETATION SHALL BE BY SEEDING OR SODDING ALL EXPOSED AREAS WITHIN THREE DAYS AFTER FINAL GRADING. MULCH SHALL BE USED AS NECESSARY FOR PROTECTION UNTIL 75% GROWTH IS ESTABLISHED. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL WHICH WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY AS TO PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND
- 12. ALL NEW EROSION AND SILT CONTROL METHODS AND LOCATIONS INDICATED ON THIS DRAWING ARE FOR START-UP AND GENERAL REFERENCE ONLY AND SHALL BE ADJUSTED, AS REQUIRED, TO SUIT THE PROCESS OF THE CONSTRUCTION.
- 13. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING. OR SEEDING IS ACCEPTABLE FOR STABILIZATION: HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
- FOR COMMERCIAL SITE DEVELOPMENT PROJECTS. NO MORE THAN 50% OF THE LANDSCAPED AREA MAY BE PLANTED WITH SHALLOW-ROOTED (I.E., ST AUGUSTINE) TURF GRASS VARIETIES. THESE TURF GRASS VARIETIES SHALL BE CONSOLIDATED IN AND LIMITED TO AREAS THAT ARE PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEMS. A METHOD OF STABILIZATION MUST BE SHOWN ON THE SITE DEVELOPMENT CONSTRUCTION PLANS.
- 14. SEE PGD PLANS FOR ADDITIONAL EROSION CONTROL LOCATION INFORMATION AND DETAILS.
- 15. CONTRACTOR TO COMPLY WITH ALL REGULATIONS AS SET FORTH BY THE FDEP NPDES STORMWATER REGULATORY PROGRAM.
- 16. CONTRACTOR TO CONSTRUCT PROPOSED STORMWATER PONDS IN EITHER CELLS OR SEQUENCED SO THAT THE FIRST PONDS FUNCTION AS SEDIMENT BASINS TO SEPARATE SUSPENDED SOLIDS FROM PRODUCED GROUNDWATER. ALL PRODUCED GROUNDWATER MUST MEET CRITERIA OF "STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY" EFFECTIVE DATE FEBRUARY 14, 2000; DOCUMENT NUMBER
- 17. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.

· WALL NOTES

THE STRUCTURAL DESIGN OF WEIR SC-4 AND THE RETAINING WALLS INCLUDING ALL ASSOCIATED APPURTENANCES SHALL BE BY A STRUCTURAL ENGINEER. THIS DESIGN SHALL INCLUDE SIGNED AND SEALED SHOP DRAWINGS TO BE SUBMITTED TO KING FOR REVIEW TO VERIFY THE DESIGN MEETS PLAN SPECIFICATIONS ONLY. IN ADDITION THE STRUCTURAL ENGINEER SHALL PROVIDE CONSTRUCTION OBSERVATION AND WRITTEN CERTIFICATION THAT THE WALLS ARE IN COMPLIANCE WITH THE STRUCTURAL PLANS AND SPECIFICATIONS. THESE ITEMS SHALL BE INCLUDED IN THE CONTRACTORS BID ITEMS.

E SIGNATURE OF THE QUALIT SPACE INDICATES THAT ALL QUIRED PERMITS HAVE BEE OBTAINED AND THAT NSTRUCTION IS AUTHORIZE TO COMMENCE.

MER 10/9/14

Engineering License #2610

4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882 www.kingengineering.com

THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES. LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

NOTES AND LEGENDS

4802-700-001 C1.02 09/13/2013 AS SHOWN ISSUED FOR CONSTRUCTION OCTOBER 9, 2014

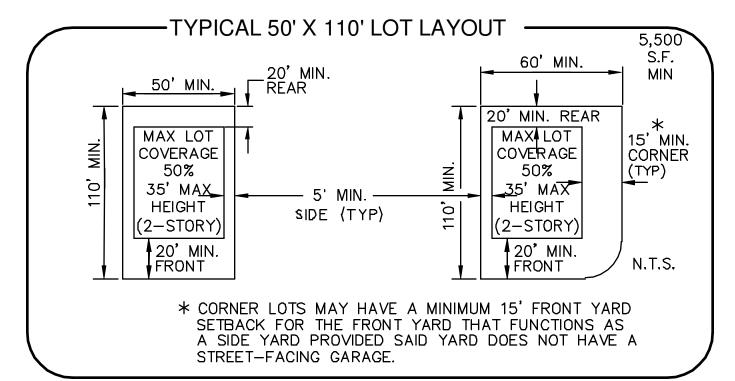
LEGAL DESCRIPTION (PER OFFICIAL RECORDS BOOK 21169, PAGE 1581)

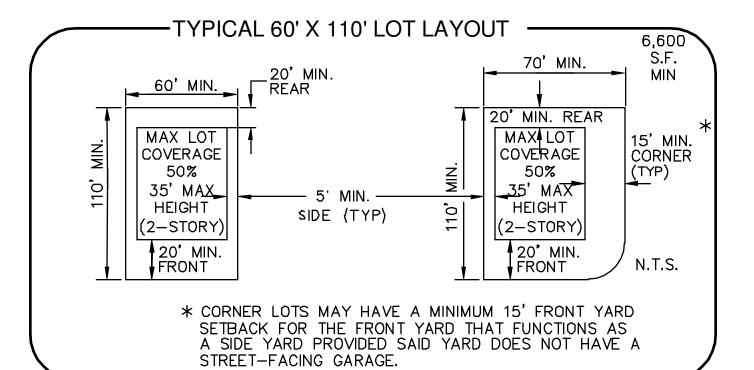
THAT PORTION OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 17, TOWNSHIP 31 SOUTH. RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

AS A POINT OF REFERENCE COMMENCE AT A FOUND PK NAIL & DISK #LB6668 MARKING THE SOUTHWEST CORNER OF SAID SECTION 17 AND PROCEED S. 89° 45' 00" E., ALONG THE SOUTH BOUNDARY OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 17, A DISTANCE OF 132.00 FEET TO A SET 4" X 4" CONCRETE MONUMENT (PRM #LB7013) MARKING THE EAST RIGHT-OF-WAY LINE OF STATE ROAD 43 (US HIGHWAY 301) ACCORDING TO THE FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY MAP (SECTION 10010-2504) FOR THE POINT OF BEGINNING; THENCE N. 00° 22' 58" E., ALONG SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 1103.90 FEET TO A FOUND 4" X 4" CONCRETE MONUMENT #LB5890 MARKING THE SOUTHWEST CORNER OF SOUTH FORK UNIT 1, AS RECORDED IN PLAT BOOK 92, PAGE 56 OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; THENCE S. 89° 54′ 50″ E., ALONG A SOUTHERLY BOUNDARY OF SAID SOUTH FORK UNIT 1, A DISTANCE OF 771.72 FEET TO A POINT; THENCE N. 00° 00' 21" E., ALONG AN EASTERLY BOUNDARY OF SAID SOUTH FORK UNIT 1, A DISTANCE OF 239.45 FEET TO A SET 4" X 4" CONCRETE MONUMENT (PRM #LB7013) MARKING THE SOUTHWEST CORNER OF SOUTH FORK UNIT 2, AS RECORDED IN PLAT BOOK 94, PAGE 75 OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; THENCE S. 89° 45' 23" E., ALONG THE SOUTH BOUNDARY OF SAID SOUTH FORK UNIT 2, A DISTANCE OF 444.84 FEET TO A FOUND 4" X 4" CONCRETE MONUMENT (#LB5890) MARKING THE NORTHEAST CORNER OF THE SOUTHWEST 1/4 OF SAID SECTION 17; THENCE S. 00° 22' 06" E., ALONG THE EAST BOUNDARY OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 17, A DISTANCE OF 1345.60 FEET TO A FOUND BROKEN 4" X 4" CONCRETE MONUMENT MARKING THE SOUTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 17; THENCE N. 89° 45' 00" W., ALONG THE SOUTH BOUNDARY OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 17, A DISTANCE, OF 1215.32 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH: (PER OFFICIAL RECORDS BOOK 19802, PAGE 805)

THE EAST 3/4 OF THE SOUTH 1/4 OF SECTION 17, TOWNSHIP 31 SOUTH, RANGE 20 EAST, HILLSBOROUGH COUNTY, FLORIDA; LESS AND EXCEPT THE SOUTH 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 THEREOF.





TREE LEGEND —

⟨→⟨□⟩ = 12" HOLLY TREE ⟨→→ = 12" PALM TREE = 12" EUCALYPTUS TREE ⟨→√√ = 12" CEDAR TREE ⟨२→
| = 12" ELM TREE ⟨>∘ ■ = 12" MAPLE TREE = TREE HAVING ONE TRUNK AT BREAST HEIGHT. 12" IN DIAMETER ■ TREE HAVING MULTIPLE TRUNKS AT BREAST HEIGHT 12", 13" AND 5" IN DIAMETER = TREE TO BE REMOVED ● TREE TO BE PROTECTED

-EXISTING LEGEND -UNDERGROUND CABLE TELEVISION MARKER CABLE TELEVISION UTILITY BOX UNDERGROUND TELEPHONE _____ CABLE ROUTE SIGN TELEPHONE UTILITY BOX — FIRE HYDRANT ———— FIRE DEPARTMENT CONNECTION——— UTILITY POLE LIGHT POLE ——— LP 🙍 UTILITY & LIGHT POLE ----ULP 🖄 ELECTRIC TRANSFORMER ———— ELECTRIC HAND-HOLE -UNDERGROUND GAS LINE MARKER ----TRAFFIC SIGN ——— TRAFFIC SIGNAL UTILITY BOX — TRAFFIC SIGNAL POLE -CONCRETE CURB INLETS -CONCRETE CURB INLETS ----CONCRETE MITERED END SECTION ----CONCRETE FLARED END SECTION ----GRATE INLET ----STORM SEWER CLEANOUT,____ PIPE & MANHOLE CONTOUR LINE ---BEARING/DISTANCE PER___ RECORDÉD PLAT BEARING/DISTANCE PER_____ BEARING/DISTANCE_PER____ FIELD MÉASUREMENT BEARING/DISTANCE PER_____ CALCULÁTION TYPICAL ROADWAY SPOT ELEVATIONS (IF SHOWN) EDGE OF PAVEMENT -----7.90 TYPICAL GROUND SPOT GROUND ELEVATIONS —— 6.3 × ELEVATIONS (IF SHOWN) OVERHEAD LINES ----SANITARY SEWER PIPE, MANHOLE, CLEANOUT, VALVE & PAINT MARK SSOON SY DEP.M. IDENTIFYING PROBABLE LOCATION OF PIPE TELEPHONE UTILITY MANHOLE, MARK IDENTIFYING PROBABLE LOCATION OF UTILITY GAS LINE WITH GAS VALVE, GAS METER & PAINT MARK IDENTIFYING — GV C - CH E.P.M. PROBABLE LOCATION OF UTILITY TER LINE WITH WATER VALVE, WATER WY PROBABLE LOCATION OF UTILITY ELECTRIC UTILITY LINE WITH ELECTRIC UTILITY MANHOLE & PAINT MARK — ©—E— E.P.M. IDENTIFYING PROBABLE LOCATION OF UTILITY 6' CHAIN LINK FENCE UNLESS_____ FOUND IRON ROD (SIZE AND_____

PROPOSED LEGEND SPOT ELEVATIONS DIRECTION OF FLOW TOP OF BANK XXX LF OF XX" RCF STORM SEWER STORM SEWER INLET FLARED/MITERED END SECTION -XXX LF OF XX" PVC SANITARY SEWER 4 X.XX% SANITARY SEWER SERVICE XXX LF OF XX" WM WATER MAIN SERVICE CONSTRUCTION BLOW-OFF FIRE HYDRANT ASSEMBLY FORCEMAIN RECLAIMED WATER MAIN RCW — ДД (DOUBLE) Д (SIN RECLAIMED WATER SERVICE RCW _____ RCW ____ OVERHEAD UTILITY OHW — PROPERTY LINE EXTERIOR BUILDING WALL CONTOUR LINE (MINOR) WETLAND LINE ····· BUFFER LINE -----CENTERLINE ------ ----RIGHT OF WAY LINE PHASE LINE SILT FENCE SILT FENCE - MITIGATION FEMA FLOOD ZONE LINE

FENCE LINE ------ 0-----

LH LEFT HAND GARAGE

LIMITS OF CONSTRUCTION

PROPOSED CAR COUNT	#
EXISTING TREE TO BE REMOVED	<i>₹</i> •
DIRECTION OF SLOPE	—
UTLITY CAP	
SIGN · · · · · · · · · · · · · · · · · · ·	•
WHEELSTOP	
HANDICAP SPACE	Ļ
BARRICADE	• • •
TEMPORARY BARRICADE	• •
AIR RELEASE VALVE	\triangle
BLOW-OFF ASSEMBLY	lacksquare
CHLORINE INJECTION POINT	(CL)
SAMPLE POINT ······	(SP)
WELL LOCATION	(
BORING ELEVATION BORING NUMBER	⊠27.83 BH06
WETLAND SHW/NPLOCATION	AB-15 SHW 69.28 NP 68.92
THE GEOTECHNICAL REPORT BY GR ENGINEERING PAD ELEVATION FF ELEVATION	??.?? ? LOT TYPE FF ??.??
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MER 10/9/14

Engineering License #2610

THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

4802-700-001 C1.03 09/13/2013 AS SHOWN ISSUED FOR CONSTRUCTION OCTOBER 9, 2014

4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882 www.kingengineering.com

NOTES AND LEGENDS

TYPE AS INDICATED)

TYPE AS INDICATED)

AND TYPE AS INDICATED) SET 4"X4" CONCRETE MONUMENT "PRM LB#2610"

FOUND IRON PIPE (SIZE AND ____

SET 1/2" IRON ROD & CAP L.B.#2610 -

FOUND CONCRETE MONUMENT (SIZE____

EXISTING POND LIMITS —

- CONSTRUCTION ACTIVITIES SHOULD BE LIMITED TO THE PROJECT'S RIGHT-OF-WAY/EASEMENTS. SODDING REQUIRED AS A RESULT OF CONTRACTOR'S ACTIVITIES OUTSIDE THE RIGHT-OF-WAY/EASEMENTS IS THE CONTRACTOR'S RESPONSIBILITY AND COST.
- 3. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE, PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- 4. ALL PROPOSED SURFACING OVERLAID ON EXISTING PAVEMENT SHALL BE FEATHERED (1" PER 50') SMOOTHLY INTO EXISTING PAVEMENT.
- 5. ALL GRASSED AREAS WITHIN THE PROJECT LIMITS SHALL BE MOWED AS DIRECTED BY THE ENGINEER.
- 6. ALL DRAINAGE STRUCTURES WITHIN THE RIGHT-OF-WAY WILL REMAIN UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
- SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT EXISTING TREES TO BE SAVED REMAIN UNDAMAGED DURING CONSTRUCTION ACCORDING TO THE CONSTRUCTION PLANS REFERENCING LOCAL LANDSCAPE AND LAND ALTERATION ORDINANCE.
- 8. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE PRUNED IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING
- 9. THE ENGINEER RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIALS DELIVERED TO PROJECT AND TO REJECT ALL MATERIALS NOT MEETING ACCEPTABLE STANDARDS.
- 10. PAVEMENT DESIGN & CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT INDEX 515 FOR DRIVEWAY TURNOUTS AND SIDE STREETS TO PRIVATE PROPERTY.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE STAKEOUT OF THE PROJECT, I.E. LINE, GRADE, SLOPE STAKE, UTILITY RELOCATIONS OR ANY OTHER STAKEOUT THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS, NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.
- 13 OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR IN ACCORDANCE WITH COUNTY STANDARDS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
- 14. ANY U.S.C. & G.S. MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED, IF IN DANGER OF DAMAGE, CONTRACTOR SHALL NOTIFY:
 - DIRECTOR, NATIONAL GEODETIC SURVEY 1315 EAST WEST HIGHWAY SILVER SPRING, MARYLAND 20910-2382 PHONE: (301) 713-3242
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION PROTECTION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION PER FDOT INDEX 102. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
- 16. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR WITHOUT DELAY BY TELEPHONE.
- 17. GRADES SHOWN ARE FINISHED GRADES.
- 18. TEMPORARY SHEETING, TRENCH BOXES AND DEWATERING MAY BE REQUIRED TO CONSTRUCT SOME SEGMENTS OF THE STORM SEWER SYSTEM. ALL ASSOCIATED COST SHALL BE INCLUDED IN THE RESPECTIVE COST OF THE PIPE CULVERT, INLETS AND/OR MANHOLES.
- 19. ALL PROPOSED CURB CUT RAMPS SHALL RECEIVE A DETECTABLE WARNING DEVICE.
- 20. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
- 21. 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 AND PRIOR TO MANUFACTURING ANY AND ALL STRUCTURED MANUFACTURED MATERIAL.
- 22. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE ONE CALL CENTER OF FLORIDA AT 1-800-432-4770 TO ARRANGE FIELD LOCATIONS. ALL UTILITY DWNERS MAY NOT BE A MEMBER, REQUIRING DIRECT CONTACT.
- 24. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND ELEVATION OF EXISTING DRAINAGE PIPES WHERE CONNECTIONS ARE PROPOSED BEFORE SHOP DRAWINGS FOR STRUCTURES ARE PREPARED AND/OR BEFORE STRUCTURES ARE PRECAST.
- 25. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER, PASCO COUNTY AND FDOT FOR REVIEW AND APPROVAL.
- 26. AT LEAST 10 WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE GOVERNMENTAL AGENCIES AND SUPPLY THEM WITH THE CONTRACTOR'S NAME, STARTING DATE. PROJECTED CONSTRUCTION SCHEDULE, ALL REQUIRED SHOP DRAWINGS AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER OR WITHOUT AN AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 27. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
- 28. 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.
- 29. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENT BARRIER (HAY BALES OR SILTATION CURTAIN) 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. ALL EROSION CONTROL ITEMS (HAY BALES, SILT FENCE, ETC.) SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
- 30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING DRAINAGE SYSTEM WITHIN THE LIMITS OF THE PROJECT AREA FOR THE DURATION OF THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE WORK INVOLVED.

- 31. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH COMPLETE SIGNED AND SEALED "AS-BUILT" INFORMATION. THIS "AS-BUILT" INFORMATION SHALL INCLUDE INVERT AND OUTLET PIPE FLOW LINE ELEVATIONS, CONSTRUCTED GRADES, BREAK LOCATIONS, UTILITY LINES AND ELEVATIONS FOR DITCH CONSTRUCTION. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY PURPOSES WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE OWNER'S ENGINEER. A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA SHALL ACCOMPLISH THIS WORK AND PROVIDE SIGNED & SEALED ASBUILTS TO THE ENGINEER OF RECORD FOR APPROVAL, PRIOR TO SUBMITTAL OF FINAL SITE INSPECTION REQUEST IN ACCORDANCE WITH PASCO COUNTY STANDARDS, PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE NEWLY CONSTRUCTED STRUCTURES.
- 32. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN THE CONTRACTOR AND ALL UTILITY AGENCIES. THIS INCLUDES MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS.)
- 33. SHOULD THERE BE ANY DISCREPANCIES BETWEEN FDOT & PASCO COUNTY REQUIREMENTS, THE MORE RESTRICTIVE REQUIREMENT SHALL BE USED, EXCEPT WITHIN FDOT RIGHT-OF-WAY LIMITS, WHERE FDOT REQUIREMENTS SHALL BE FOLLOWED.

SIGNING AND PAVEMENT MARKING GENERAL NOTES

- ALL FLORIDA ROUTE MARKERS MUST CONFORM TO FDOT DESIGN STANDARDS INDEX 17355.
- PAVEMENT MARKERS SHOULD BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE FDOT
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- REFER TO FDOT DESIGN STANDARDS INDEX NO 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT.
- PAINT ALL MEDIAN NOSES AND RAISED ISLAND NOSES REFLECTIVE WHITE OR REFLECTIVE YELLOW AS INDICATED IN THE PLANS.
- CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO LONG AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
- 8. ALL ROUTE MARKER AUXILIARIES SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE MARKER WHICH THEY SUPPLEMENT.
- ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE

RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION.

- 10. CONTRACTOR SHALL USE W-SHAPE STEEL POST FOR MULTI-POST SIGNS. ALL COLUMNS (POSTS) FOR SINGLE COLUMN SIGNS SHALL BE PRE-FINISHED ALUMINUM ROUND TUBE. COLOR TO BE SELECTED BY THE ARCHITECT.
- ANY EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.

- FDOT GENERAL NOTES A

DESIGN STANDARD INDEX.

- CALL JAMES MEYER @ 813-744-6038 TO SCHEDULE A PER-CONSTRUCTION MEETING.
- PER FAC RULE CHAPTER 14-96.007(5)(C)6, BEFORE CONSTRUCTION BEGINS, THE APPLICANT OR THE APPLICANT'S CONTRACTOR SHALL DELIVER TO THE DEPARTMENT PROOF OF LIABILITY INSURANCE IN THE AMOUNT OF \$500,000.
- THE DEPARTMENT REQUIRES DOCUMENTATION OF SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL COURSE FOR THE AGENCY, UTILITY OR CONTRACTOR EMPLOYEE(S) INSTALLING AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN. DOCUMENTATION IS TO BE FURNISHED TO THE DEPARTMENT AT THE PRE-CONSTRUCTION MEETING OR BEFORE OCCUPYING THE STATE RIGHT OF WAY. ALL LANE CLOSURES MUST BE APPROVED IN ADVANCE BY FDOT.
- . A COPY OF THE APPROVED PERMIT AND DRAWINGS MUST BE ON THE JOBSITE FOR WORK TO BEGIN IN THE FDOT RIGHT OF WAY.
- ANY SIDEWALK DISTURBED WILL BE REPLACED, BY SECTION, TO FDOT SPECIFICATIONS.
- 6. ALL PORTIONS OF FDOT RIGHT OF WAY DISTURBED MUST BE SODDED.

WHERE SIDEWALK INTERSECTS ROADS AND STREETS.

IN ACCORDANCE WITH FLORIDA STATUTE 335.1825 (2), "THE PERMITTEE, HOWEVER, SHALL BEAR THE COST OF ALTERATION OF ANY CONNECTION WHICH IS REQUIRED BY THE DEPARTMENT DUE TO INCREASED OR ALTERED TRAFFIC FLOWS GENERATED BY CHANGES IN THE FACILITIES OR NATURE OF

NEW SIDEWALK PERMITTED TO CITY OR COUNTY ONLY AND SHALL INCORPORATE HANDICAP RAMPS

THE NEED FOR SUCH ALTERATION." ALL CONSTRUCTION AND/OR MAINTENANCE IN THE FDOT R/W SHALL CONFORM TO THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE DEPARTMENT'S ROADWAY AND TRAFFIC

DESIGN STANDARDS AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

BUSINESS CONDUCTED AT THE LOCATION SPECIFIED IN THE PERMIT, IF THE DEPARTMENT ESTABLISHES

- 10. IF CONSTRUCTION, RECONSTRUCTION, REPAIR OR MAINTENANCE ACTIVITY NECESSITATES THE CLOSING OF ONE OR MORE TRAVEL LANES OF ANY ROAD ON THE STATE PRIMARY, COUNTY ROAD OR CITY STREET SYSTEM, FOR A PERIOD OF TIME EXCEEDING TWO HOURS, THE PARTY PERFORMING SUCH WORK WILL BE RESPONSIBLE TO GIVE NOTICE TO THE APPROPRIATE LAW ENFORCEMENT AGENCY WHICH HAS JURISDICTION WHERE SUCH ROAD IS LOCATED PRIOR TO COMMENCING WORK ON THIS PROJECT. FLORIDA STATUTE 335.15 AND 336.07
- 1. OPEN CUTTING OF ROADWAY FOR INSTALLATION OF UTILITY OR DRAINAGE FACILITIES WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM FDOT. ANY PROPOSED OPEN CUTS MUST BE CLEARLY NOTED ON THE PLANS AND A SEPARATE LETTER OF APPROVAL MUST BE OBTAINED.
- 12. NOTE THAT SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX 304 AND 310. DETECTABLE WARNING STRIPS, A.K.A. TRUNCATED DOMES, FOR DISTRICT SEVEN CONSTRUCTION AND MAINTENANCE SHOULD BE EITHER INSET CERAMIC TILES OR THERMOPLASTIC DETECTABLE WARNING STRIPS. THESE WARNING SURFACES SHALL ONLY BE PROVIDED BY THE FOLLOWING VENDORS/MANUFACTURERS OR AS APPROVED BY THE ENGINEER.
- 12.1. INLINE TRUNCATED DOME EZ TILE SUPPLIED BY PROFESSIONAL PAVEMENT PRODUCTS.
- 12.2. TOPMARK SUPPLIED BY FLINT TRADING.
- 12.3. VANGUARD TRUNCATED DOME SUPPLIED BY VANGUARD.
- 13. NOTE THAT DRIVEWAYS ARE TO BE CONSTRUCTED PER FDOT INDEX 515. THOUGH INDEX 515 ALLOWS A 2% SLOPE ACROSS SIDEWALKS, CURRENT ADA REQUIREMENTS ARE THAT 2% IS THE MAXIMUM ALLOWABLE SLOPE AS CONSTRUCTED. PLEASE DESIGN SIDEWALK SLOPE WITHIN FDOT RIGHT OF WAY AT 1.5% TO ALLOW CONSTRUCTION VARIANCES.
- 4. NOTE THAT TRAFFIC SIGNALS ARE TO REMAIN IN ACTUATION DURING CONSTRUCTION.

- MAINTENANCE FDOT GENERAL NOTES

- ALL WORK PERFORMED IN THE DEPARTMENT'S RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF: A. F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. B. F.D.O.T. DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY
- C. F.D.O.T. ROADWAY PLANS PREPARATION MANUAL VOLUME I, CHAPTERS 1,2,4,8,10,18,19 AND/OR 25.
- 1. ALL AREAS IN THE FDOT RIGHT OF WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED, COMPACTED, SODDED AND WATERED IN CONFORMANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 575 AND 981 AND DESIGN STANDARDS INDEX 105.
- 2. DAYTIME WORK ONLY. THE F.D.O.T. ENGINEER MUST APPROVE NIGHT WORK AND LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE. THE APPLICANT MUST NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE 48 HOURS IN ADVANCE OF STARTING ANY PROPOSED WORK, CALL: BROOKSVILLE MAINTENANCE, JOHN KILKENNY AT (352) 797-5700.
- 3. ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD-FREE". REMOVAL OF EXISTING STRIPING SHALL BE DONE BY MILLING AND RESURFACING OF THE FRICTION/SURFACE COURSE TO OBLITERATE OBSOLETE PAVEMENT MARKINGS.
- 4. ALL PROPOSED TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH AND CONSTRUCTED TO THE FDOT DESIGN STANDARDS INDEX SERIES 11000 AND 17000 SERIES. THE PROPERTY OWNER MUST MAINTAIN THE TRAFFIC SIGNS AND
- 5. FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO.
- 6. THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF, AND SIGNED AND SEALED BY, A LICENSED FLORIDA PROFESSIONAL ENGINEER WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED PER FDOT PROCEDURE, TOPIC NO. 625-010-010. MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH ALL APPLICABLE INDICES OF THE FDOT DESIGN STANDARDS INDEX 600 SERIES ACCORDING TO THE TYPE OF ROADWAY AND TYPE OF WORK BEING PERFORMED.
- 7. SILT FENCE FOR EROSION CONTROL IN CONFORMANCE WITH DESIGN STANDARDS INDEX (DSI) 102 IS REQUIRED FOR ALL AREAS OF CONSTRUCTION WITHIN FDOT R/W; PERPENDICULAR TO AND PARALLEL WITH THE STATE ROAD.
- 8. SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX 304 AND 310. DETECTABLE WARNING STRIPS, A.K.A. TRUNCATED DOMES, FOR DISTRICT SEVEN CONSTRUCTION AND MAINTENANCE SHOULD BE EITHER INSET CERAMIC TILES OR THERMOPLASTIC DETECTABLE WARNING STRIPS. THESE WARNING SURFACES SHALL ONLY BE PROVIDED BY THE FOLLOWING VENDORS/MANUFACTURERSS.
- A. INLINE TRUNCATED DOME EZ TILE SUPPLIED BY PROFESSIONAL PAVEMENT PRODUCTS B. TOPMARK SUPPLIED BY FLINT TRADING
- 9. MAINTENANCE OF TRAFFIC PLAN MUST INCLUDE FDOT DESIGN STANDARDS INDEX 600 PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS.

$lue{}$ FDOT GENERAL NOTES B $\,$ -

ALL WORK PERFORMED WITHIN THE FDOT R/W SHALL CONFORM TO:

C. VANGUARD TRUNCATED DOME SUPPLIED BY VANGUARD

- 1. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) (A.K.A. STANDARD SPECS).
- 2. FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION, (A.K.A. STANDARD INDEX).
- 3. FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY PLANS PREPARATION MANUAL, VOLUME 1, CHAPTERS 2 AND 25. (CURRENT EDITION).
- 4. FLORIDA DEPARTMENT OF TRANSPORTATION FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW
- CONSTRUCTION AND PAVEMENT REHABILITATION, CURRENT EDITION. 5. ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD FREE, NON SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE
- THERMOPLASTIC IS "LEAD FREE". 6. LANE CLOSURE MAY NEED TO BE ALTERED DEPENDING ON THE AREA THE WORK IS TAKING PLACE.
- THE PERMIT PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE PERMITTEE'S ENGINEER OF RECORD (EOR) IS RESPONSIBLE FOR THE TECHNICAL ACCURACY OF THE DESIGN PLANS. THE EOR IS RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE PLANS SUBMITTED FOR PERMITTING.

E SIGNATURE OF THE QUALIT SPACE INDICATES THAT ALL QUIRED PERMITS HAVE BEEN OBTAINED AND THAT ISTRUCTION IS AUTHORIZE TO COMMENCE.

MER 10/9/14

4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882 www.kingengineering.com Engineering License #2610

THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

FDOT NOTES

4802-700-001 C1.04 09/13/2013 AS SHOWN ISSUED FOR CONSTRUCTION OCTOBER 9, 2014

OWNER'S NAME: TRINITY BUILDERS & CONSULTING, LLC OWNER'S ADDRESS: 4942 ROBIN TRAIL PALM HARBOR, FL 34683 813-541-7276

DESCRIPTION OF NATURE OF CONSTRUCTION ACTIVITY

CONSTRUCTION OF A SINGLE FAMILY RESIDENTIAL DEVELOPMENT. COMPONENTS INCLUDE INTERNAL ROADWAYS, PARKING, WATER & SANITARY SEWER UTILITIES AND STORM WATER UTILITIES.

SOIL DISTURBING ACTIVITIES INCLUDE: INSTALLING STABILIZED CONSTRUCTION ENTRANCES, CONSTRUCTION OF EROSION AND SEDIMENT CONTROLS, CLEARING AND GRUBBING, GRADING, AND CONSTRUCTION OF STORM SEWER.

LIMITS OF CONSTRUCTION AREA: 96.3± ACRES

SEQUENCE OF MAJOR ACTIVITIES:

LONG. = $W 82^{\circ}20'04''$

- 1. PRIOR TO THE COMMENCEMENT OF CLEARING, GRUBBING, AND DEMOLITION, THE SITE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES CALLED FOR ON THE PLANS.
- 2. UPON INSTALLATION OF THE EROSION CONTROL DEVICES, THE SITE CONTRACTOR MAY BEGIN SITE CLEARING, DEMOLITION, EARTHWORK, DRAINAGE, UTILITY AND ROADWAY CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS. THE SITE CONTRACTOR SHALL STABILIZE ALL AREAS DISTURBED WITHIN FIVE DAYS OF THE COMPLETION OF GRADING ACTIVITIES OF THE DISTURBED AREA.
- 3. THE SITE CONTRACTOR SHALL MAINTAIN THE EXISTING STORMWATER SYSTEM UNTIL THE PROPOSED SYSTEM HAS BEEN RE-ROUTED. ONCE THE PROPOSED SYSTEM IS IN PLACE, THE CONTRACTOR MAY BEGIN THE REMOVAL OF THE EXISTING STORMWATER PIPES AS INDICATED ON THE
- 4. THE SITE CONTRACTOR SHALL REMOVE ALL EROSION PROTECTION DEVICES WITHIN EACH CONTRIBUTING AREA FOLLOWING PERMANENT STABILIZATION OF ALL DISTURBED AREAS.

NAME OF RECEIVING WATERS: LITTLE BULLFROG CREEK

CONTROLS

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

WIND EROSION STABILIZATION: THE CONTRACTOR SHALL DENUDE ONLY AREAS WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN A TWO (2) WEEK TIME—FRAME. FINAL GRADES SHALL BE PERFORMED AND TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED, AREAS WHERE` CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS, OR AS NEEDED TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF—SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.

TEMPORARY STABILIZATION: TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 5 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMUDA SEED AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SEED USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY, CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY, ONLY UNDETERIORATED MULCH WHICH CAN BE READILY CUT INTO THE SOIL SHALL BE USED. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE.

PERMANENT STABILIZATION: DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH GOD NO LATER THAN 5 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

STRUCTURAL PRACTICES

TAKED SILT FENCES: THE STAKED SILT FENCES WILL BE CONSTRUCTED ALONG THE PERIMETER AS PREVIOUSLY EXPLAINED. THESE DEVICES WILL TOP AND DIVERT RUNOFF TO THE SEDIMENT BASINS.

SEDIMENT BASINS: THE STORM WATER MANAGEMENT AREAS WILL ACT AS SEDIMENT BASINS DURING CONSTRUCTION. THE SEDIMENT BASINS WILL BE CONSTRUCTED TO THE DESIGN CROSS-SECTION, OR A MINIMUM OF 2' BELOW EXISTING GROUND AT THE CONTRACTORS DISCRETION TO ALLOW SILTS O BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY A CURB, SWALE, STORM SEWER, OR CATCH BASIN SYSTEM FOR THE DEVELOPED AREAS. SWALES TO BE SODDED AND INCLUDE CHECK DAMS AND RIPRAP TO CONTROL RUNOFF VELOCITY AND TRANSPORT OF SEDIMENT. WHEN CONSTRUCTION IS COMPLETE THE IMPROVED PORTION OF THE SITE WILL DRAIN TO STORM WATER PONDS. THE PONDS WILL BE IN THE LOCATION OF THE TEMPORARY SEDIMENT BASINS. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASINS. THE PONDS HAVE BEEN DESIGNED BY A PROFESSIONAL ENGINEER TO LIMIT PEAK FLOW RATES FROM THE DESIGN STORM EVENT AT OR BELOW PRE-DEVELOPMENT RATES, AND CONSTRUCTION PER DETAILS SHOWN IN THE PLANS IS IMPERATIVE.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS: ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL AGENCIES REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTERS. THE DUMPSTERS WILL BE EMPTIED A MINIMUM OF ONCE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO A REGISTERED LANDFILL FOR DISPOSAL, NO CONSTRUCTION MATERIALS WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE ON-SITE OFFICE TRAILER AND THE CONSTRUCTION MANGER RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.

OFFSITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPAULIN AT ALL TIMES.

TIMING OF CONTROL MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT BARRIERS, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH WITHIN 5 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL

CERTIFICATION OF COMPLIANCE WITH FEDERAL. STATE AND LOCAL REGULATIONS

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT'S (SWFWMD) REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL, AS ESTABLISHED BY THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 40D-4 AND 40D-40. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH SWFWMD'S "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT." THIS PLAN ALSO REFLECTS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR WORK IN BRANCH 6.

MAINTENANCE INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL.

ALL CONTROL MEASURES IN DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 0.25 INCHES OR GREATER BY A CONTRACTORS REPRESENTATIVE. (WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.) ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER: IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB. TEMPORARY AND PERMANENT GRASSING, MULCHING AND SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE JOB SITE CONSTRUCTION TRAILER. THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES. FILLING OUT THE INSPECTION AND MAINTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

WATER FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATER LINE FLUSHING, WATER USED TO SPRAY OFF LOOSE SOILS FROM VEHICLES, DUST CONTROL, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

GROUNDWATER DEWATERING ACTIVITIES ARE NOT COVERED BY THIS PERMIT. THE CONTRACTOR MUST APPLY FOR COVERAGE UNDER THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO 62-621.300 (2), F.A.C.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED, BUT NOT LIMITED, TO BE PRESENT ON-SITE DURING CONSTRUCTION:

FFRTILIZERS

CONCRETE DETERGENTS PAINTS (ENAMEL AND LATEX) METAL STUDS GLASS SAND

PETROLEUM BASED PRODUCTS AND FUELS CLEANING SOLVENTS MASONRY BLOCK ROOFING SHINGLES STONE

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.

AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT. DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

HAZARDOUS PRODUCTS:

GOOD HOUSEKEEPING:

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE:

PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED, ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREAS WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON-SITE.

NOTICE OF INTENT (NOI) / NOTICE OF TERMINATION (NOT)

- THIS NOTICE OF INTENT (NOI) FORM IS TO BE COMPLETED AND SUBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) BEFORE USE OF THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PROVIDED IN SUBSECTION 62-621.300(4), F.A.C.
- A NOTICE OF TERMINATION WILL BE SUBMITTED TO EPA AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THESE CONSTRUCTION PLANS, THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM, AS SHOWN ON THESE CONSTRUCTION PLANS, DESIGNED TO ASSURE THAT APPROPRIATE POLLUTION PREVENTION MEASURES ARE IMPLEMENTED DURING CONSTRUCTION AND TO ASSURE THAT THE QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME AND TITLE: ROB BONIN

COMPANY: LENNAR HOMES, LLC

ADDRESS: 4600 WEST CYPRESS ST., SUITE 200

TAMPA FLORIDA 33607

CONTRACTOR'S CERTIFICATION

CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORM WATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	FOR	RESPONSIBLE FOR
NAME: TITLE:	COMPANY: ADDRESS: PHONE:	GENERAL CONTRACTOR
NAME: TITLE:	COMPANY: ADDRESS: PHONE:	TEMPORARY AND PERMANENT STABILIZATION
NAME: TITLE:	COMPANY: ADDRESS: PHONE:	STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, SEDIMENT BASIN

SPACE INDICATES THAT ALL QUIRED PERMITS HAVE BEEN ISTRUCTION IS AUTHORIZE TO COMMENCE.





THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC **4600 WEST CYPRESS ST., SUITE 200 TAMPA, FL 33607**

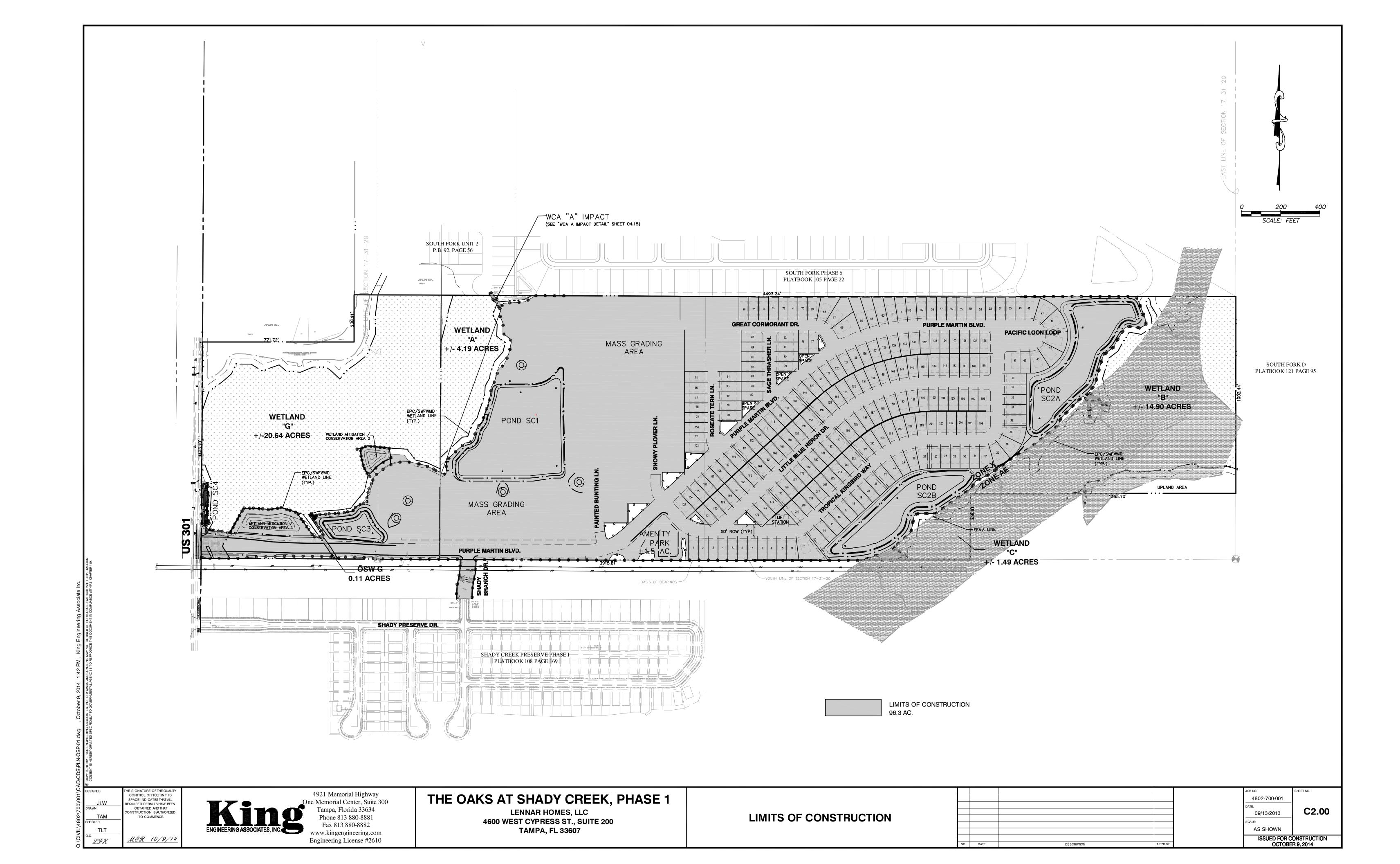
CONSTRUCTION POLLUTION PREVENTION PLAN

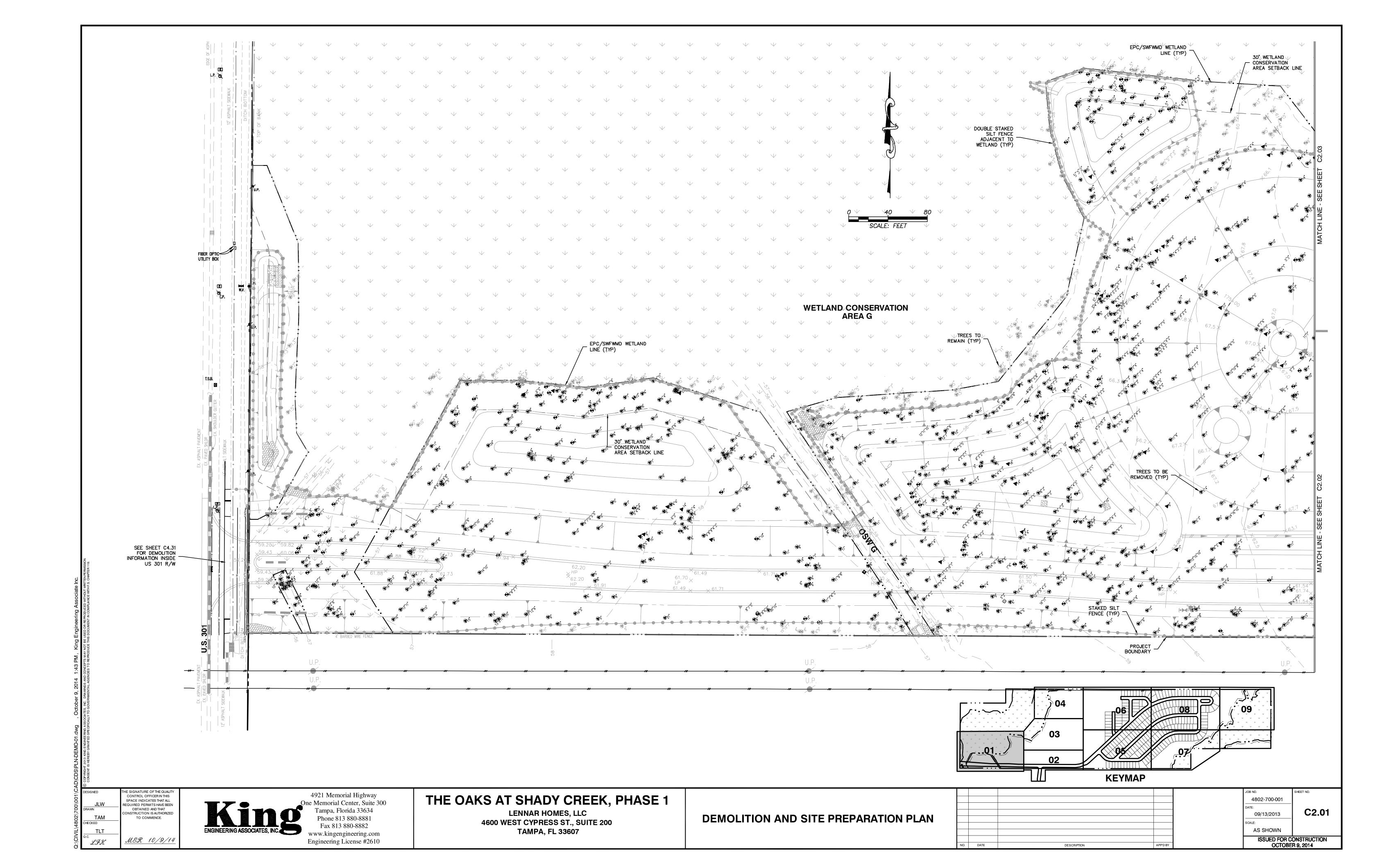
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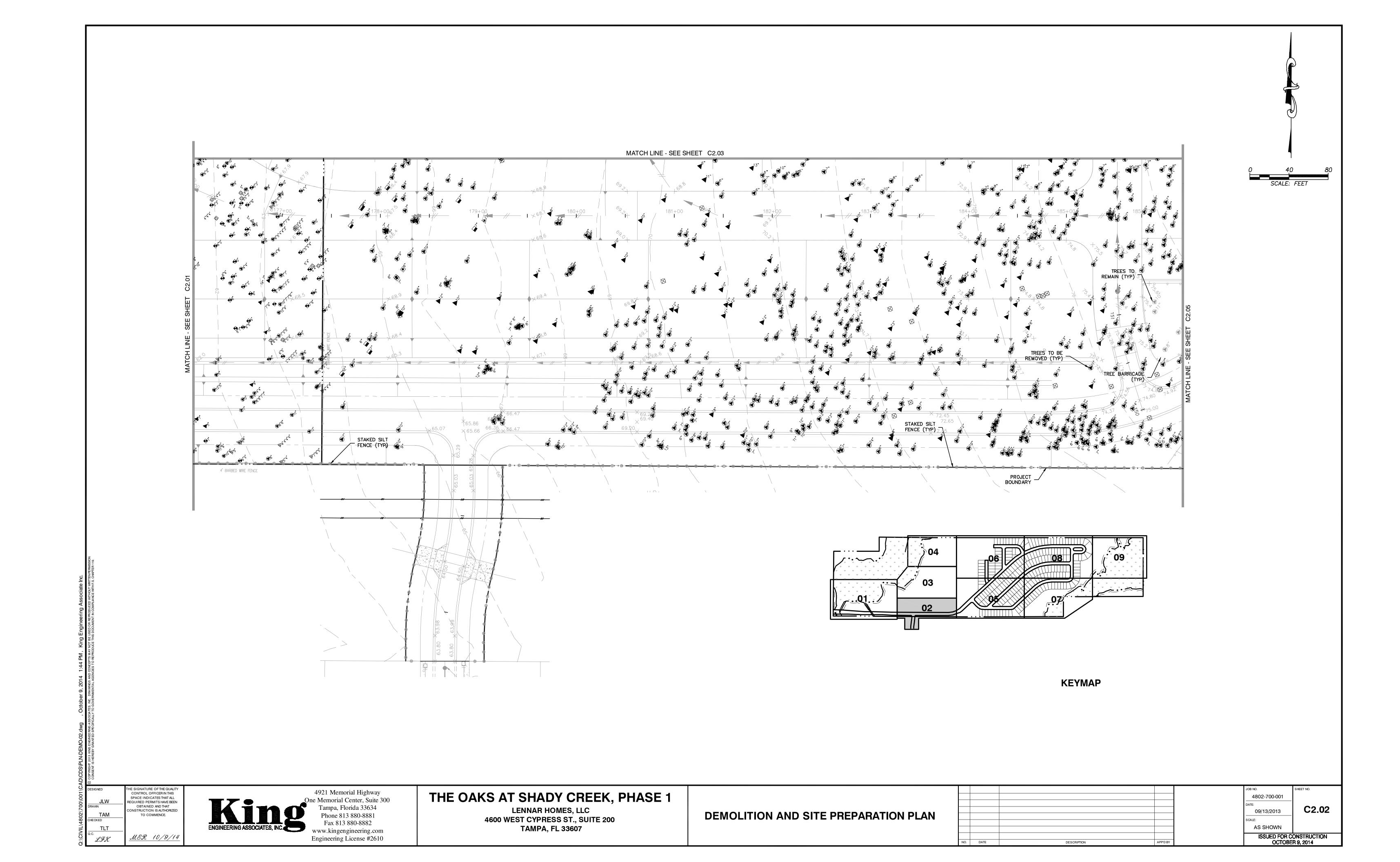
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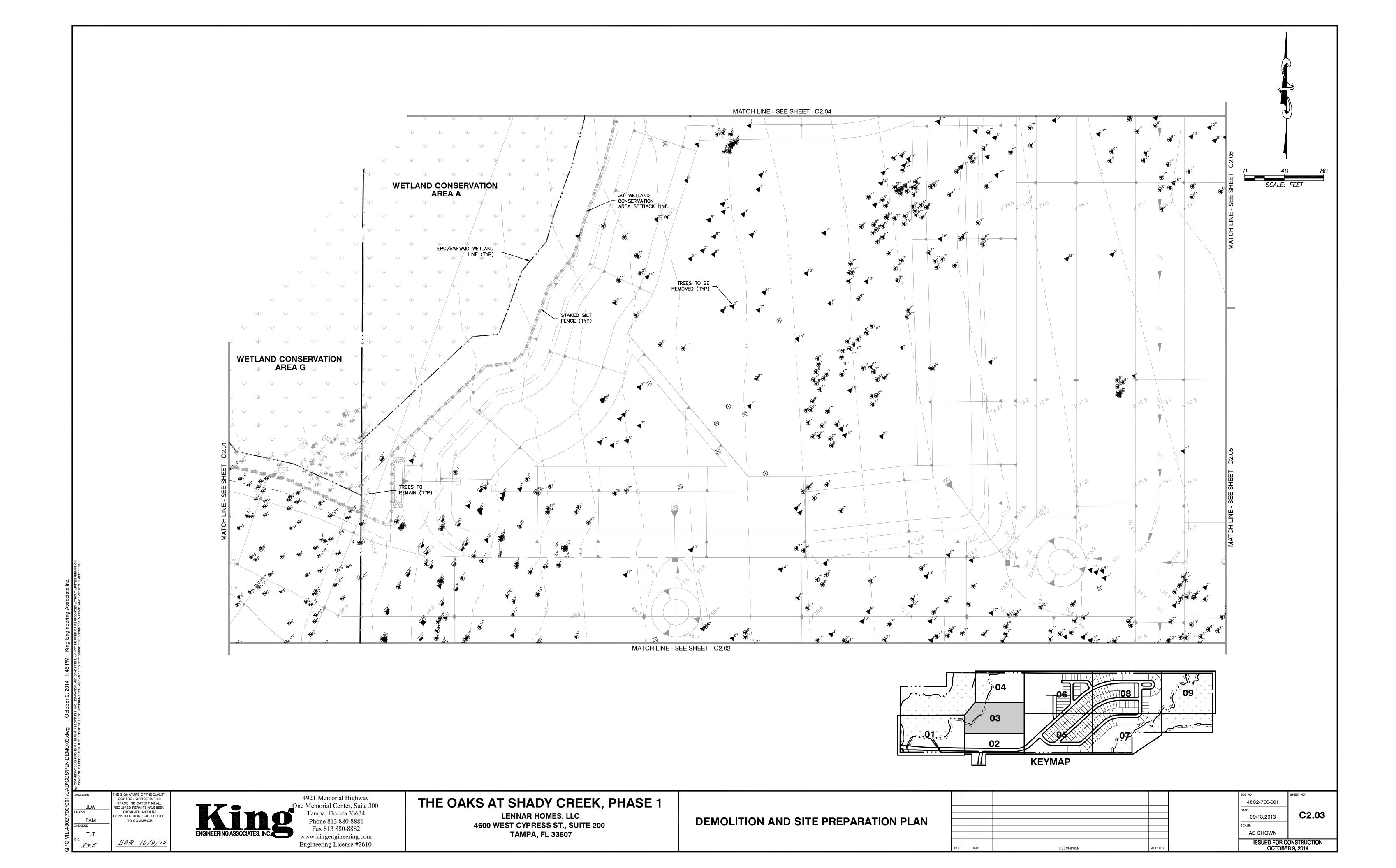
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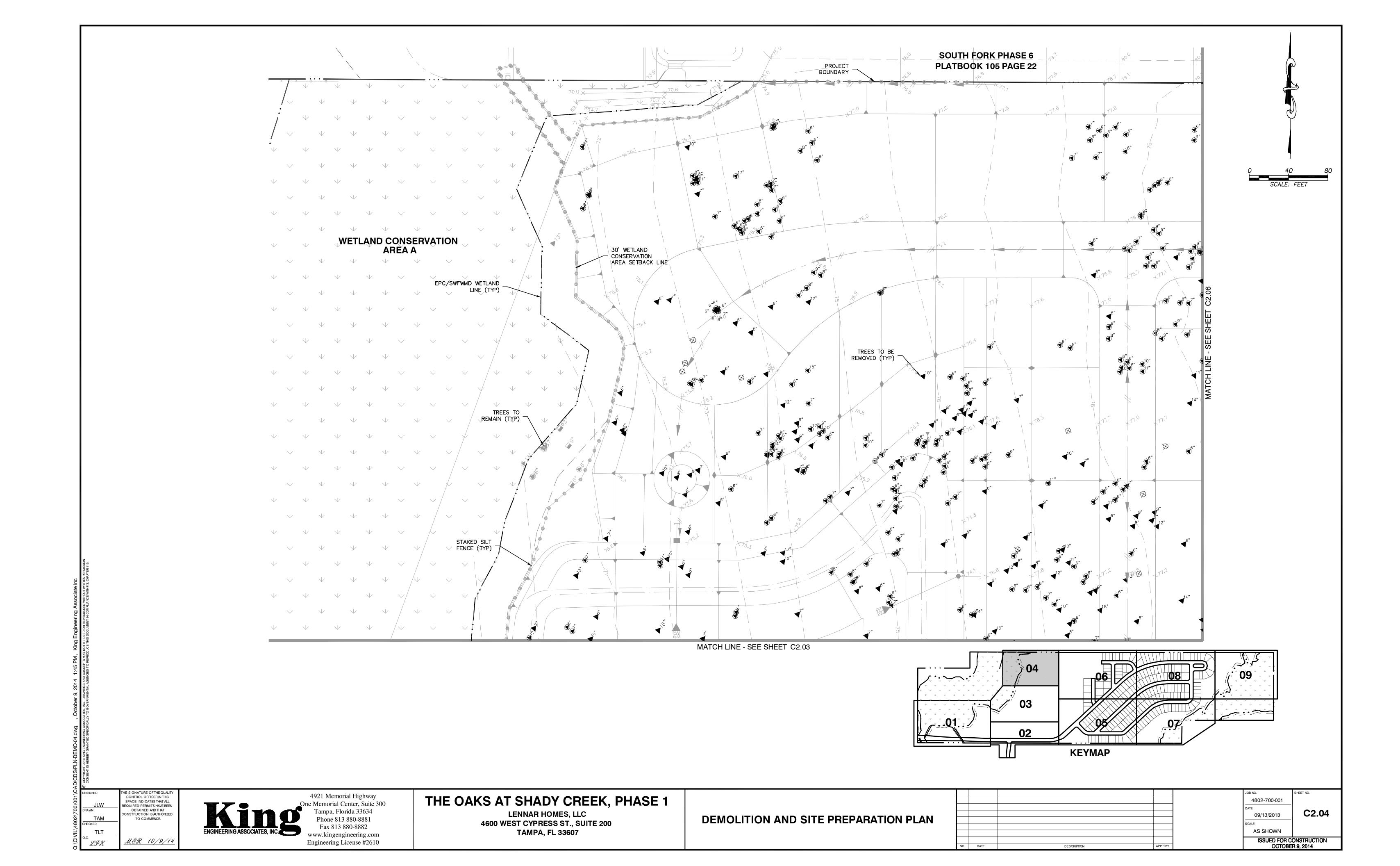
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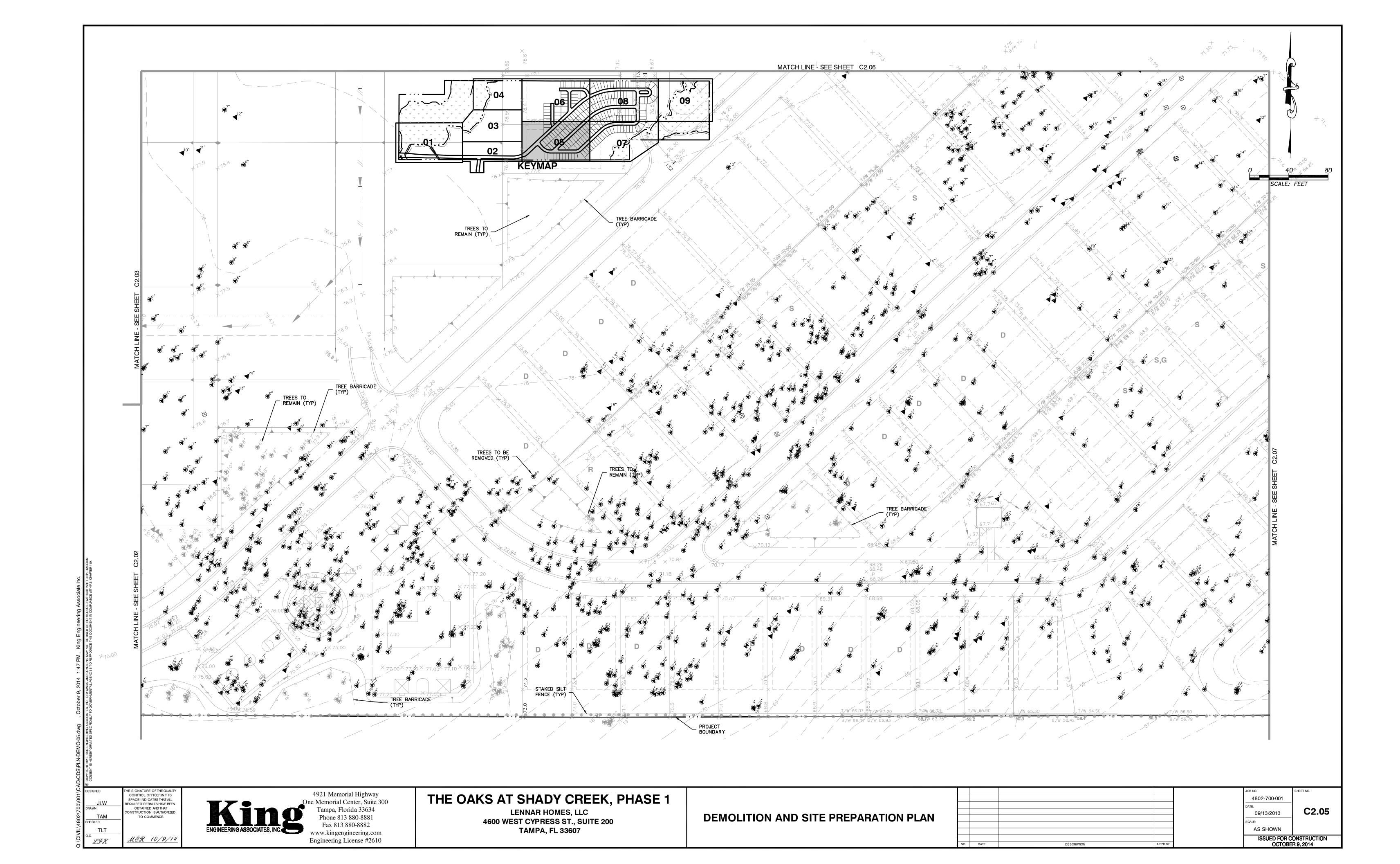


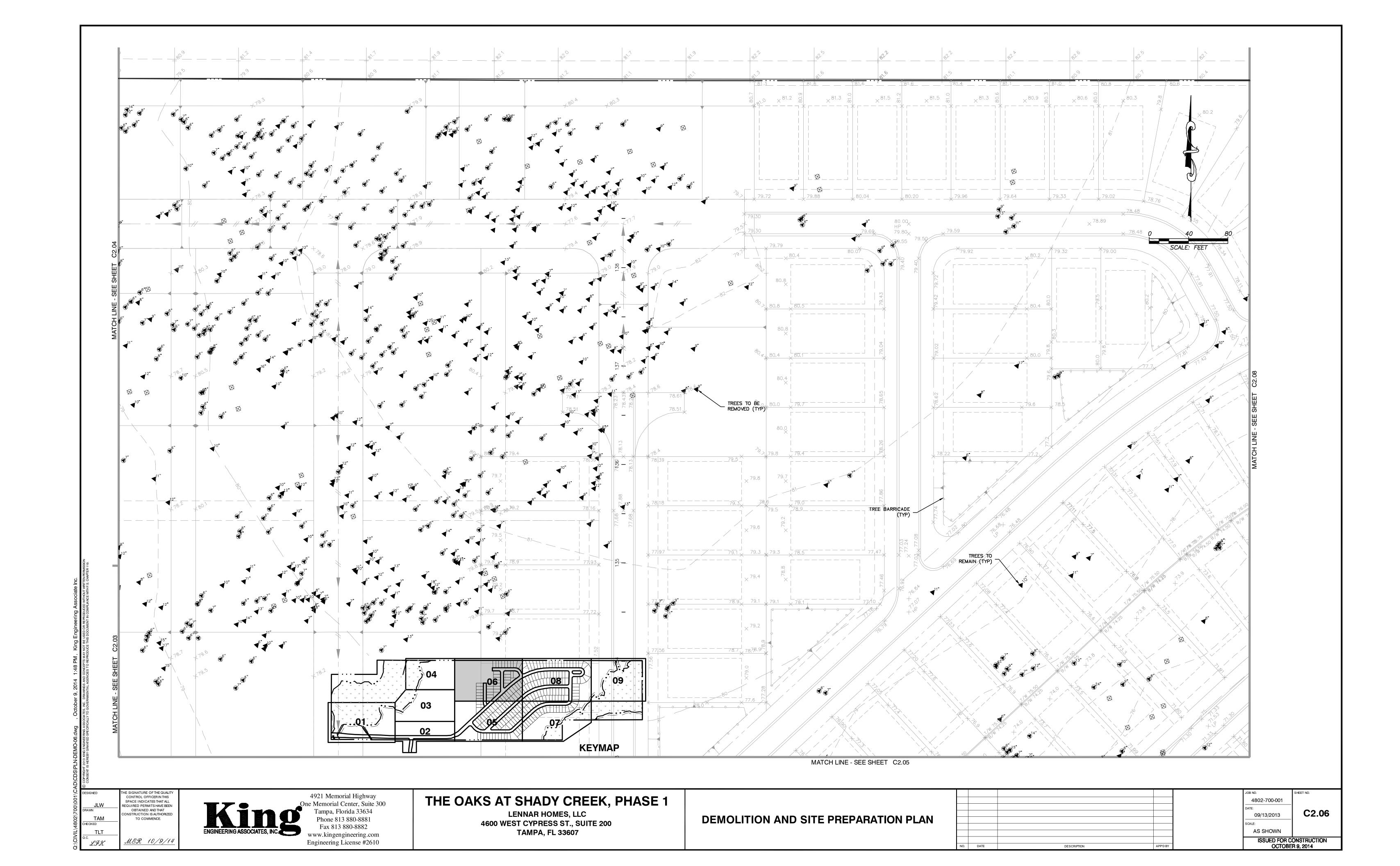


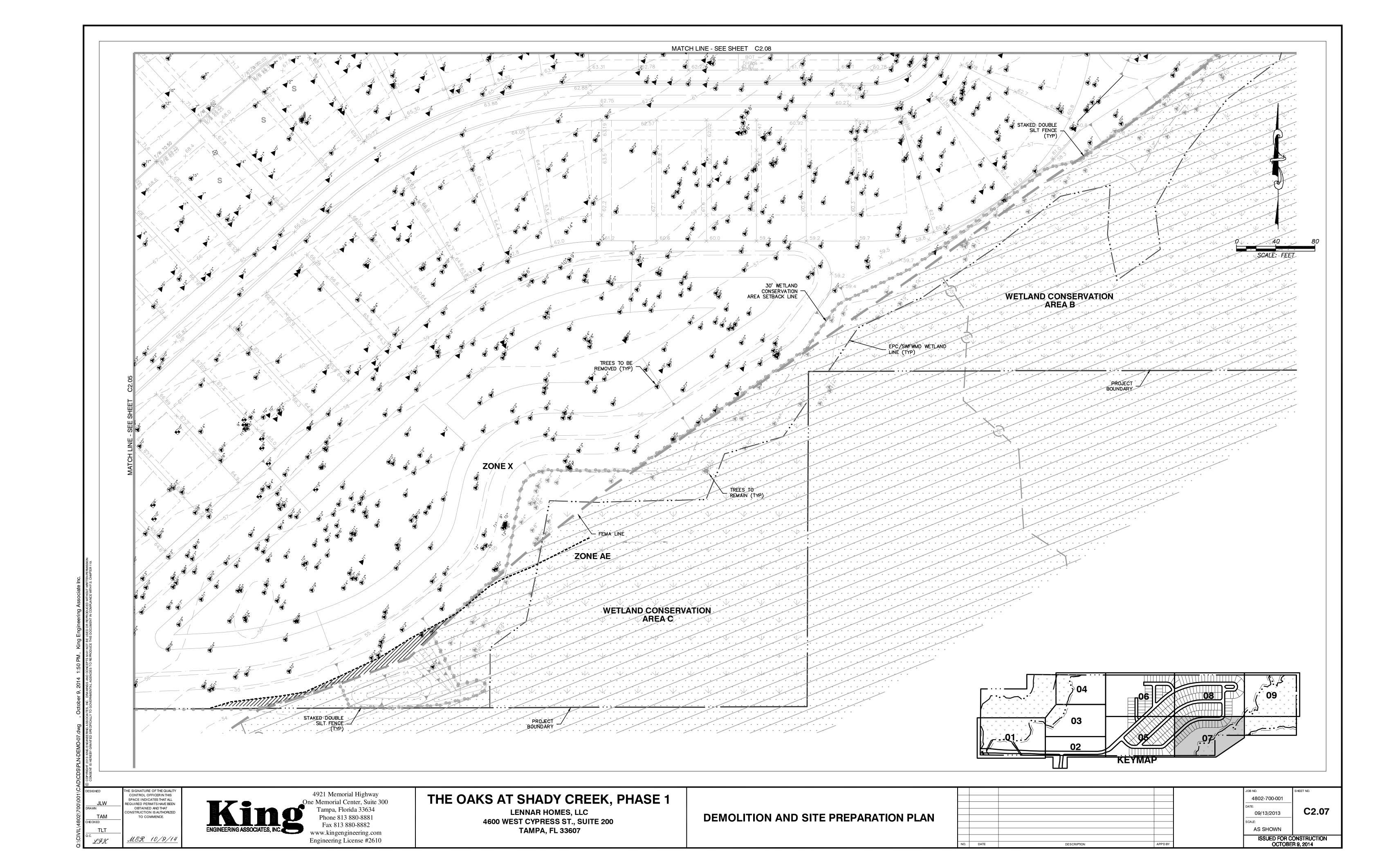


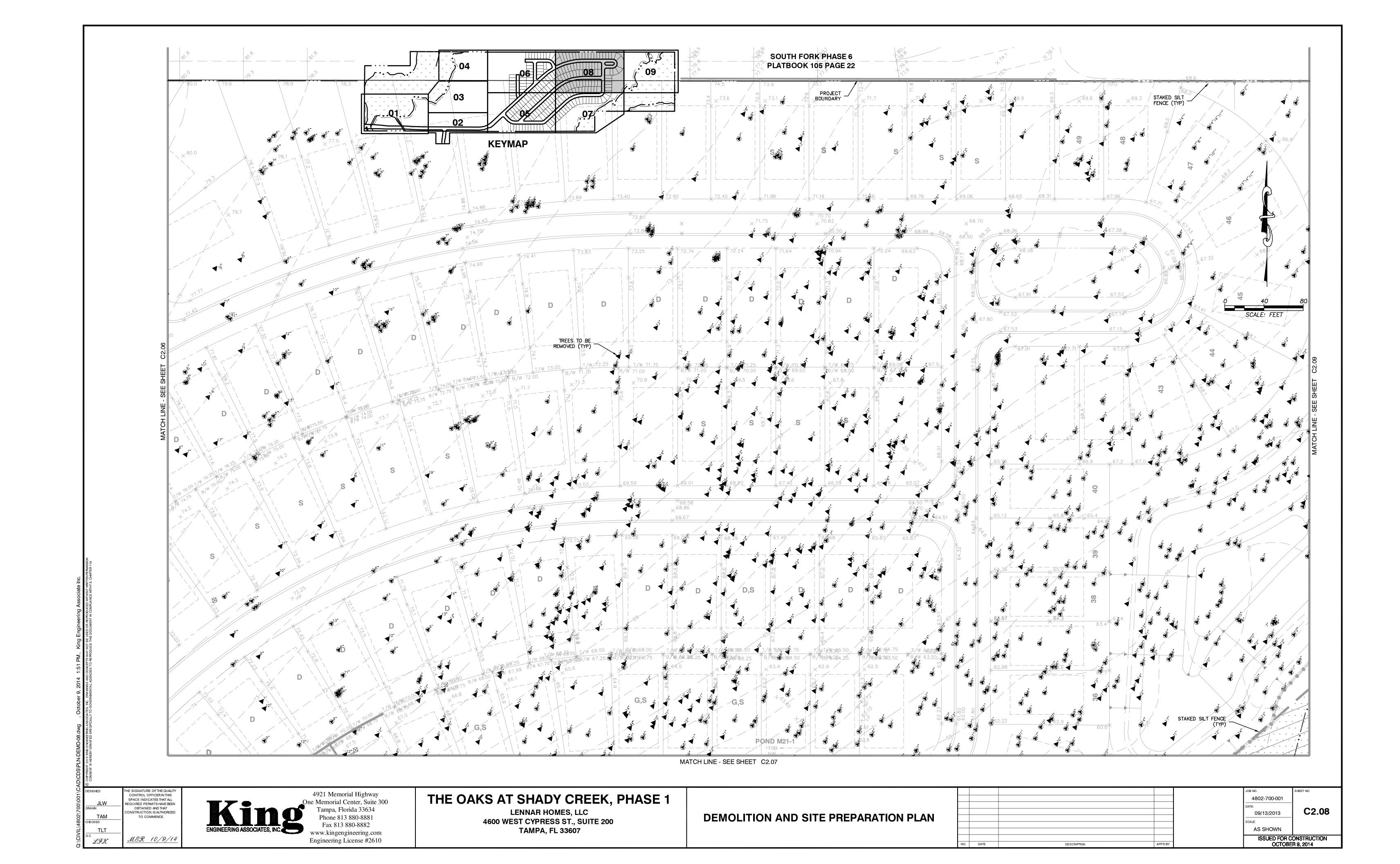


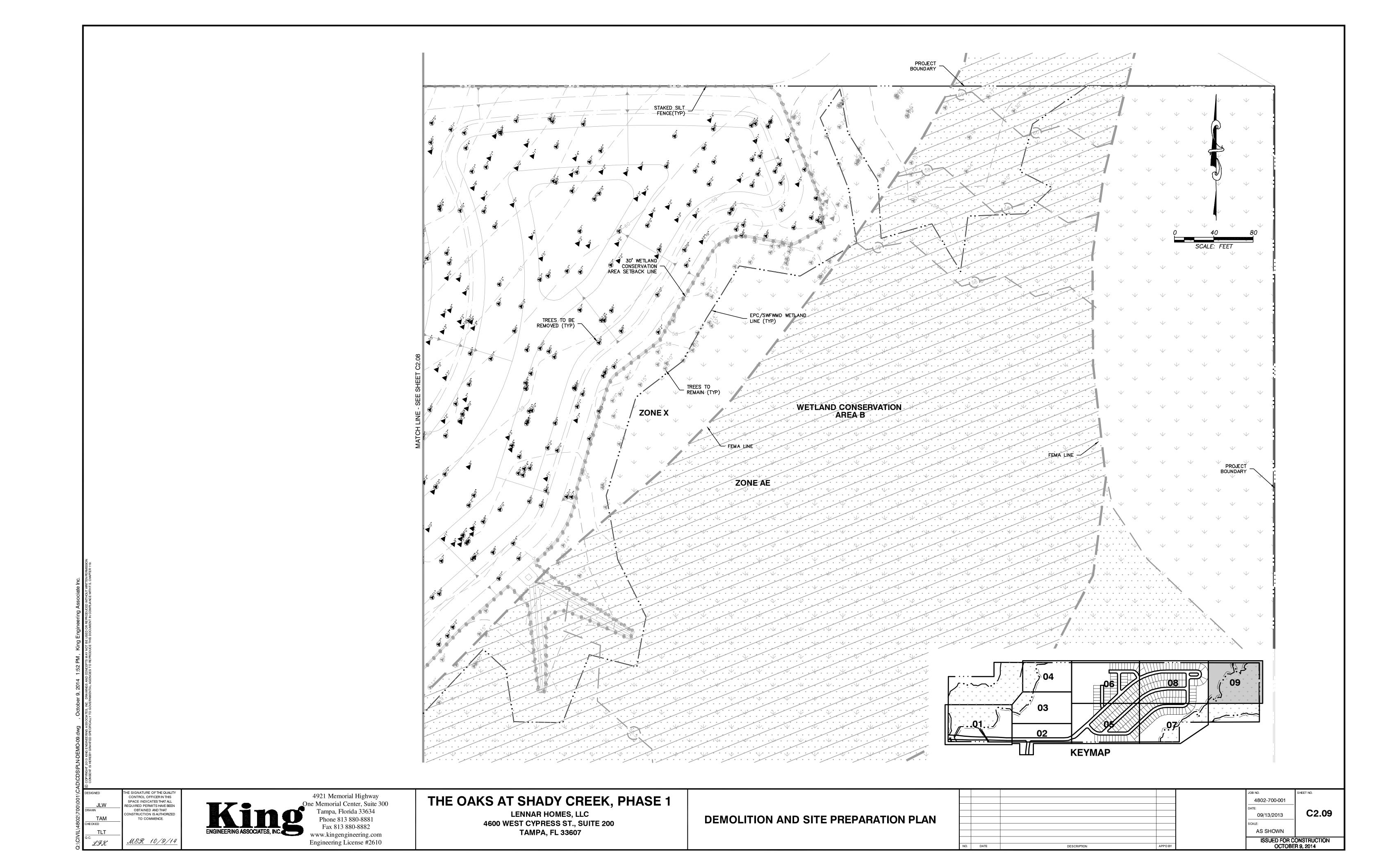


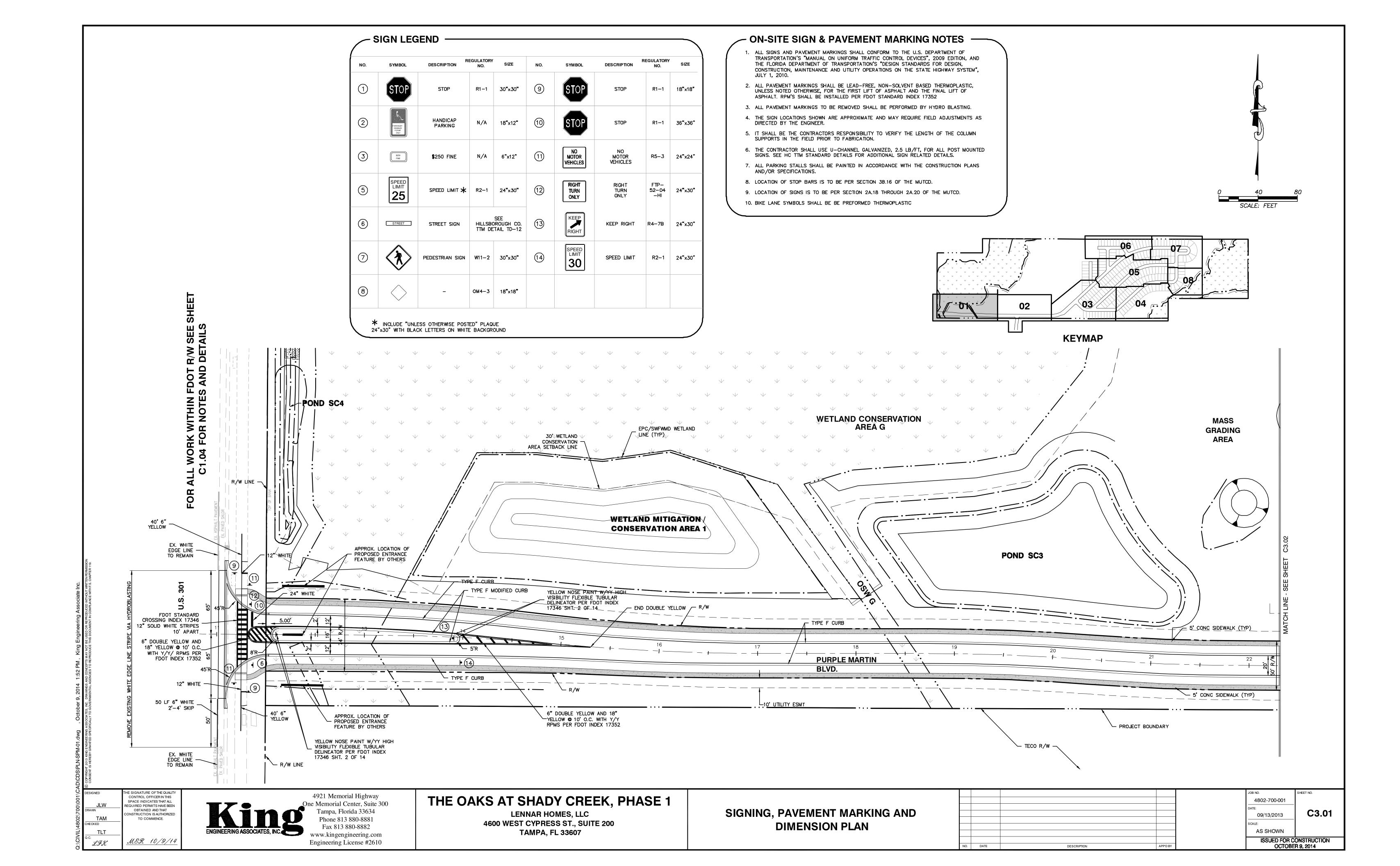


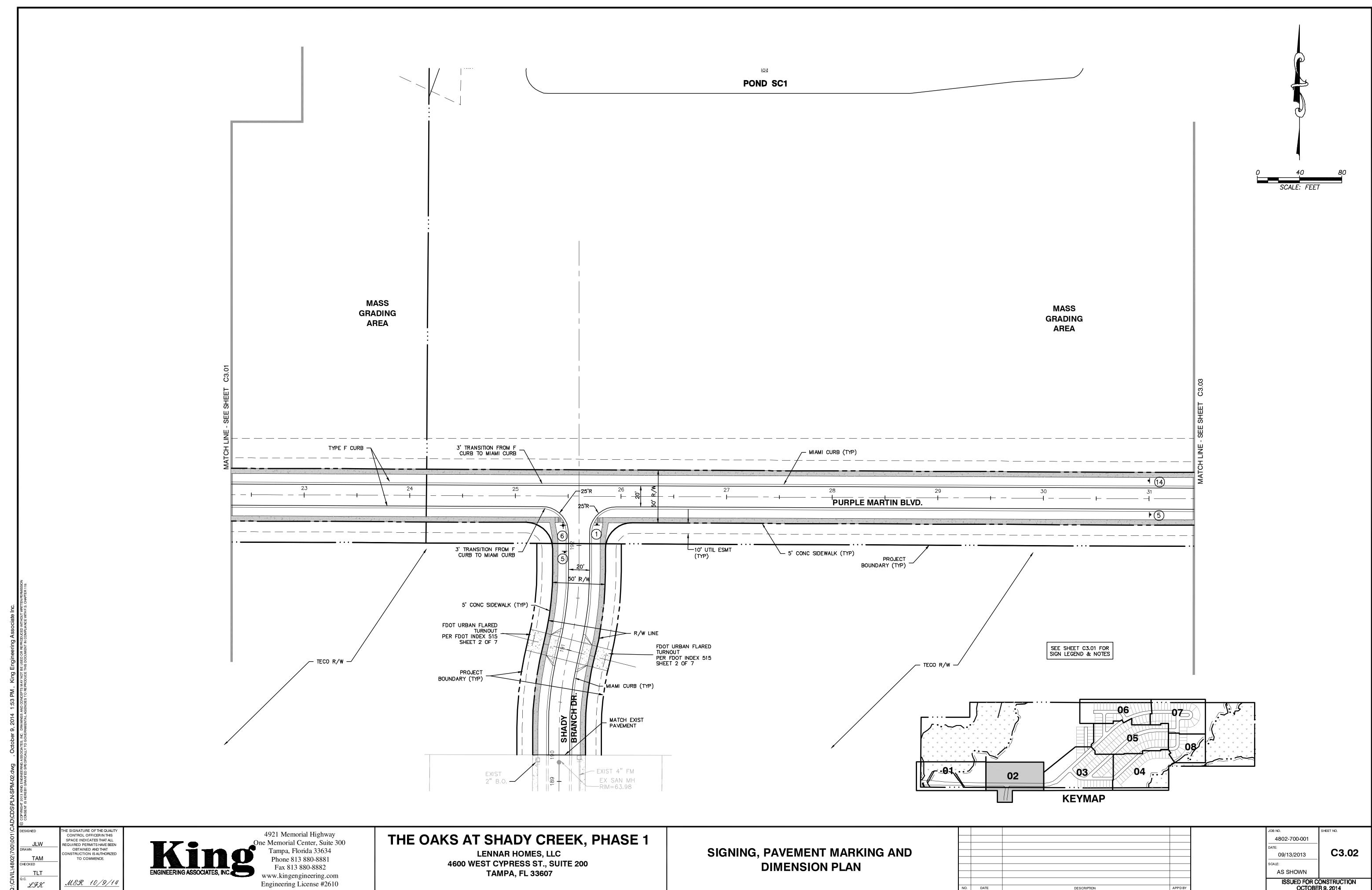




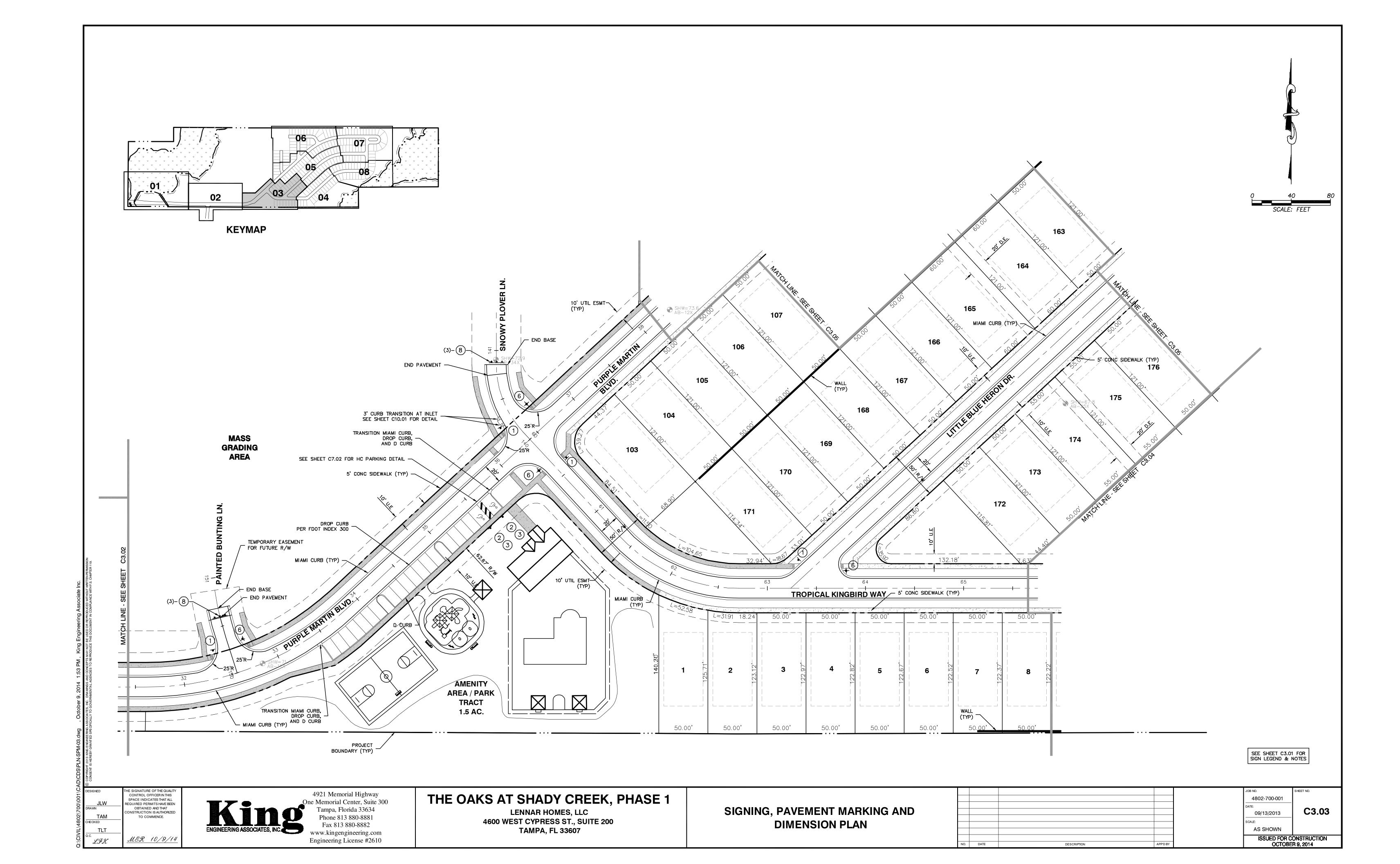


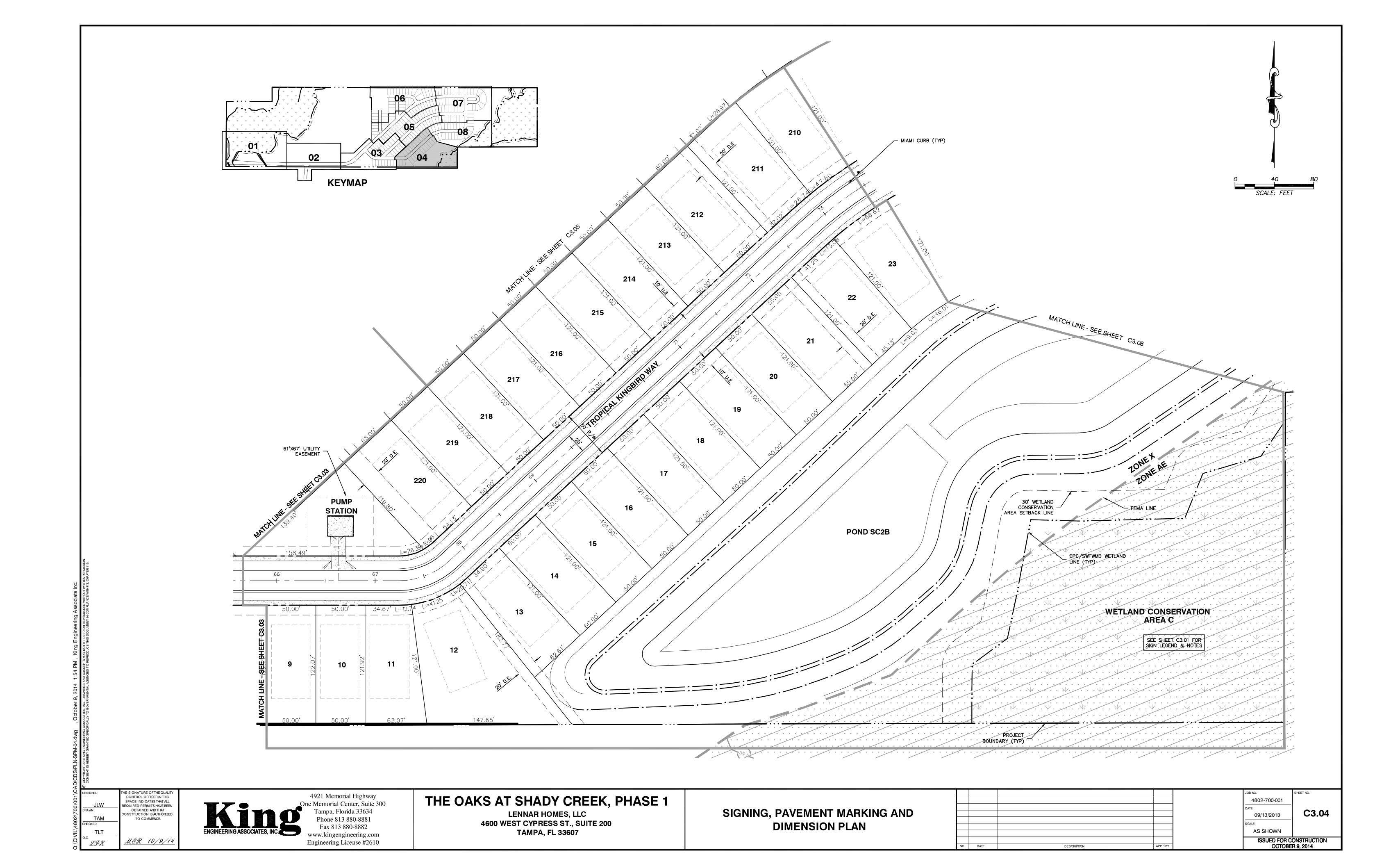


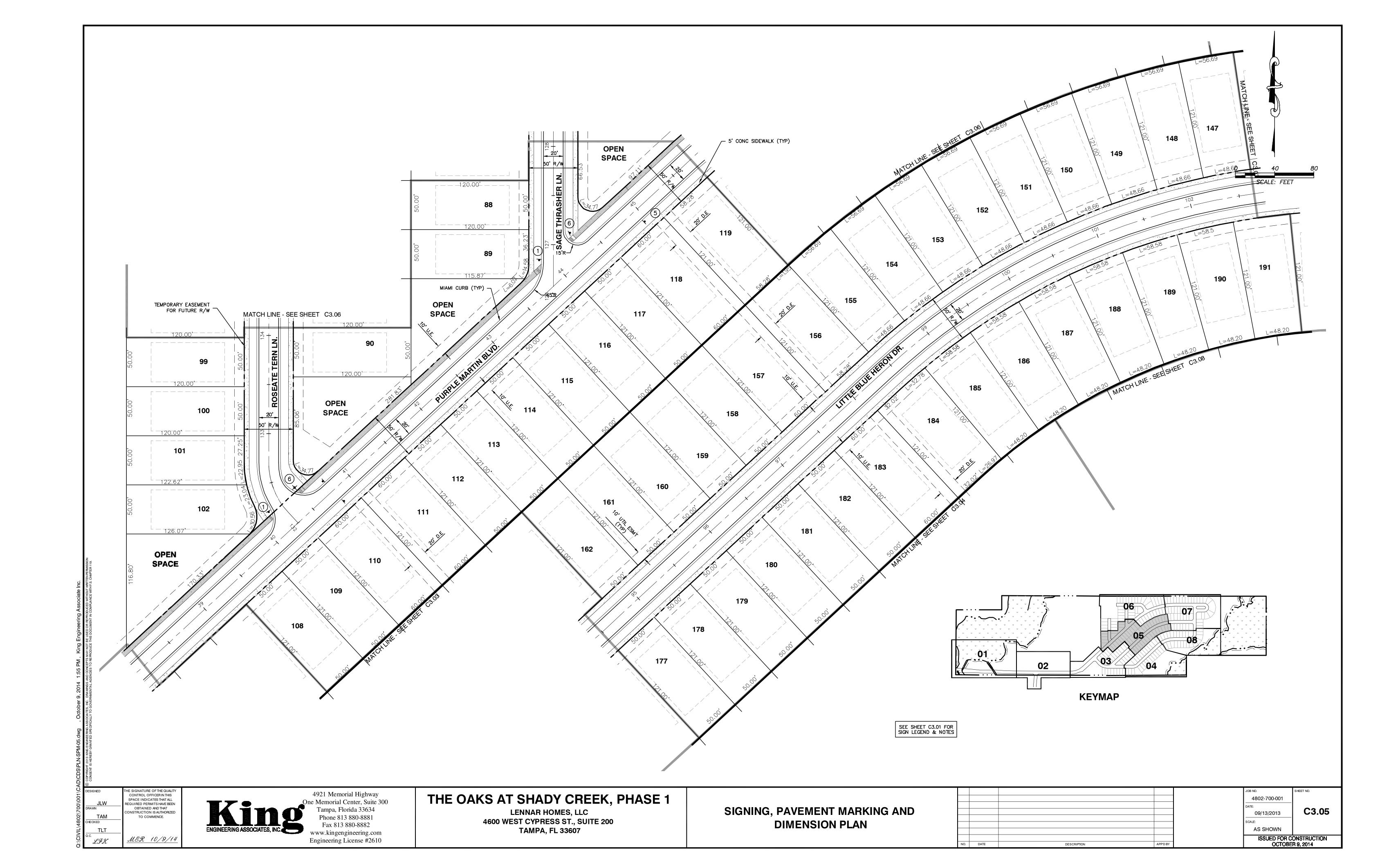


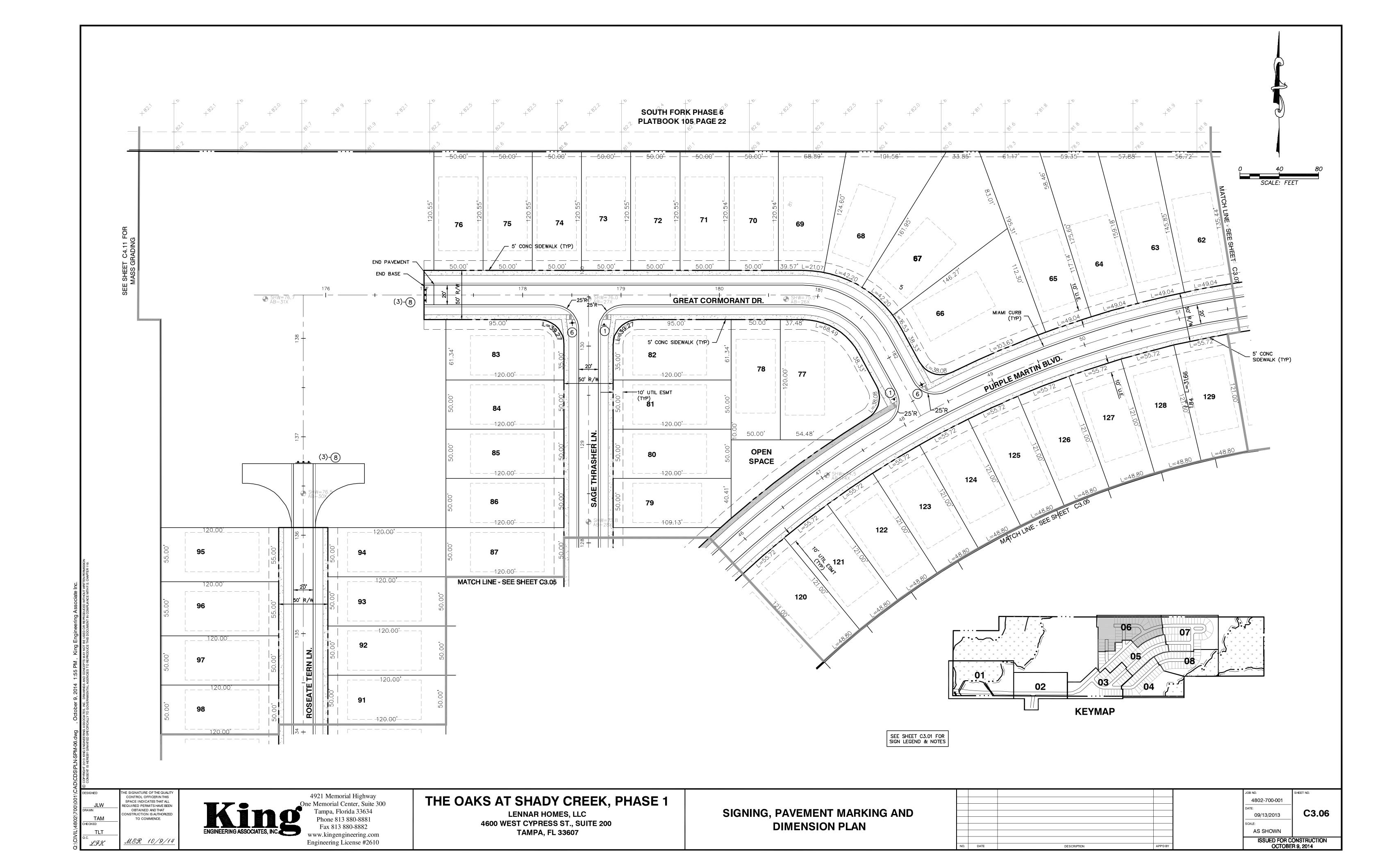


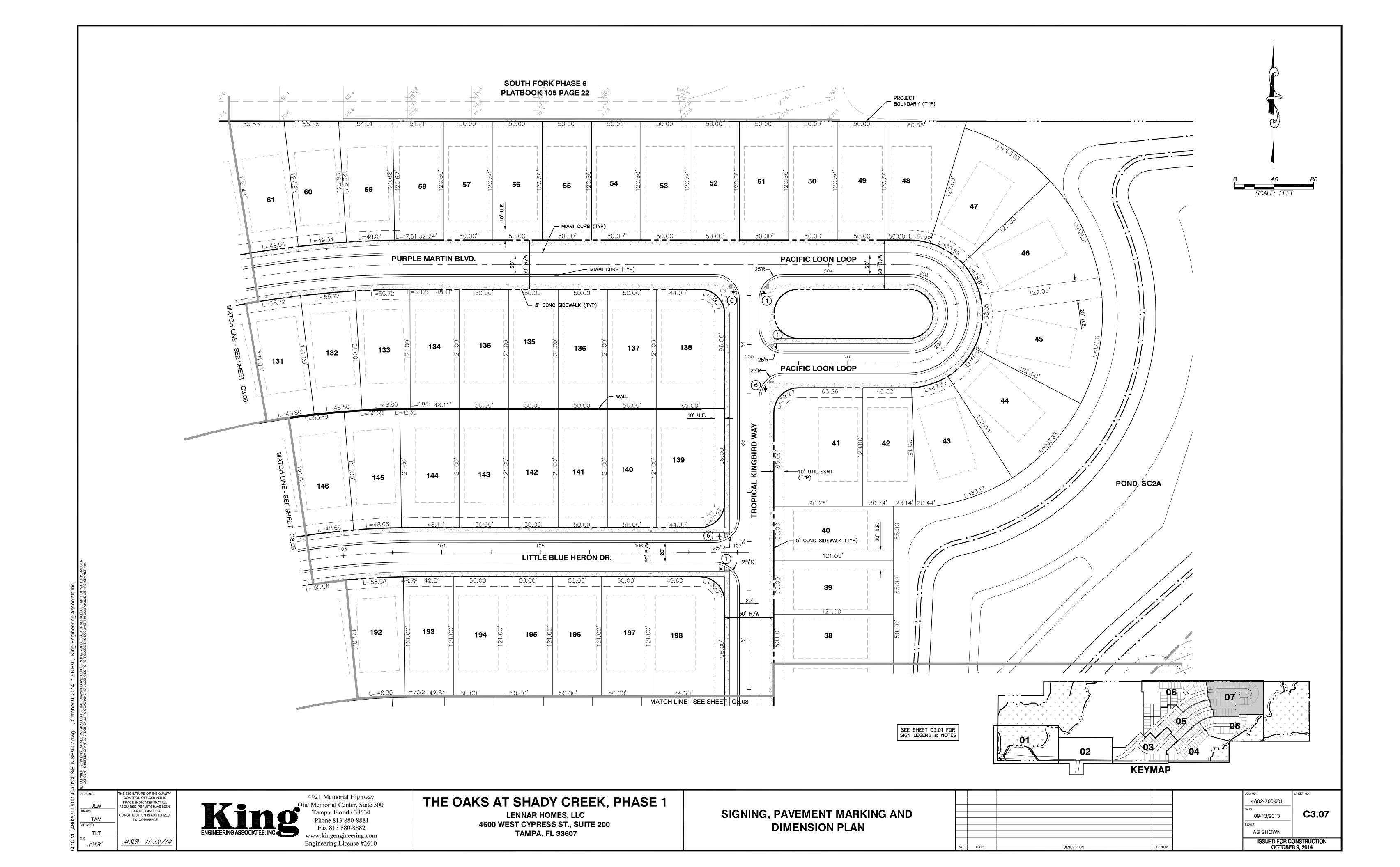
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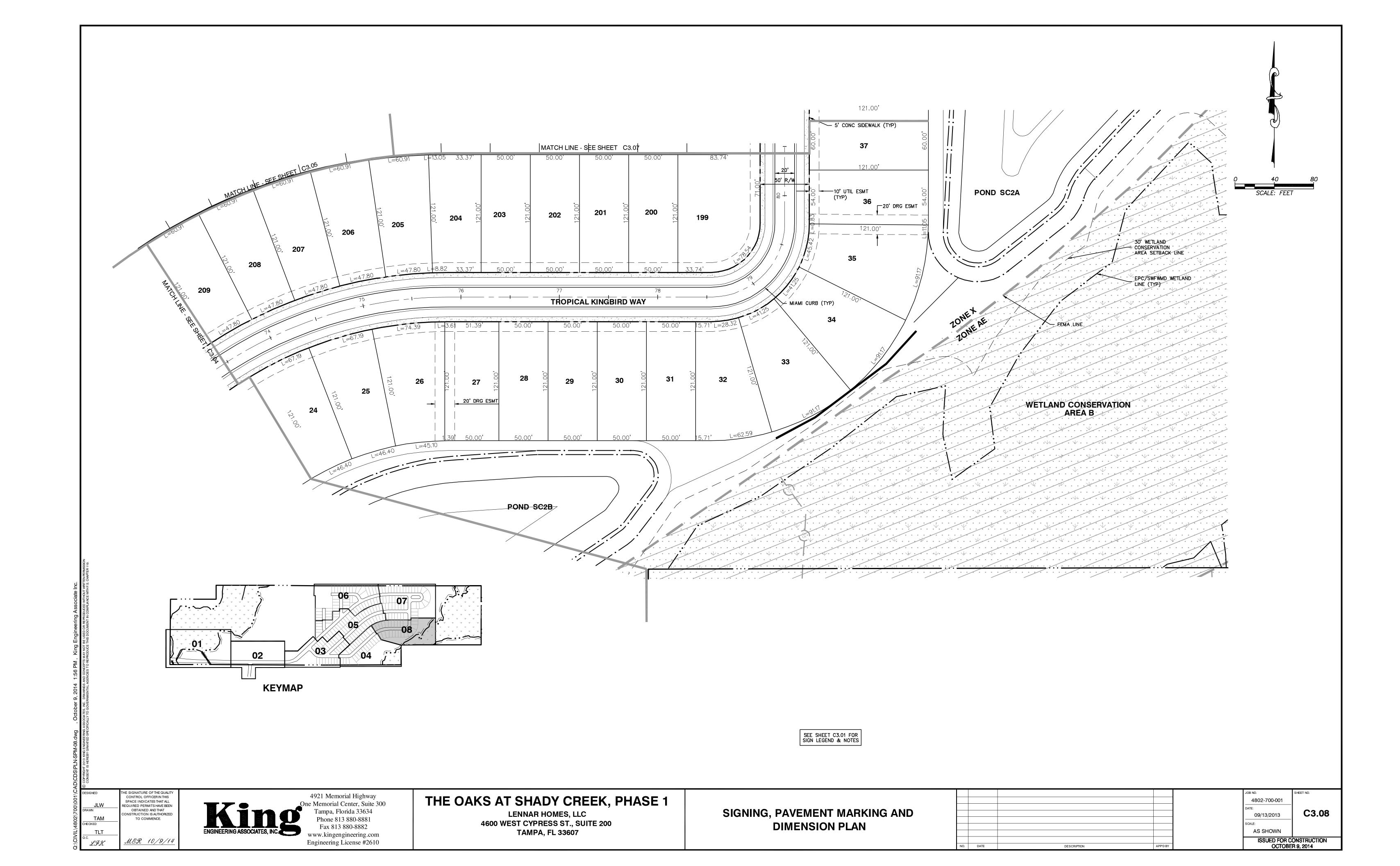


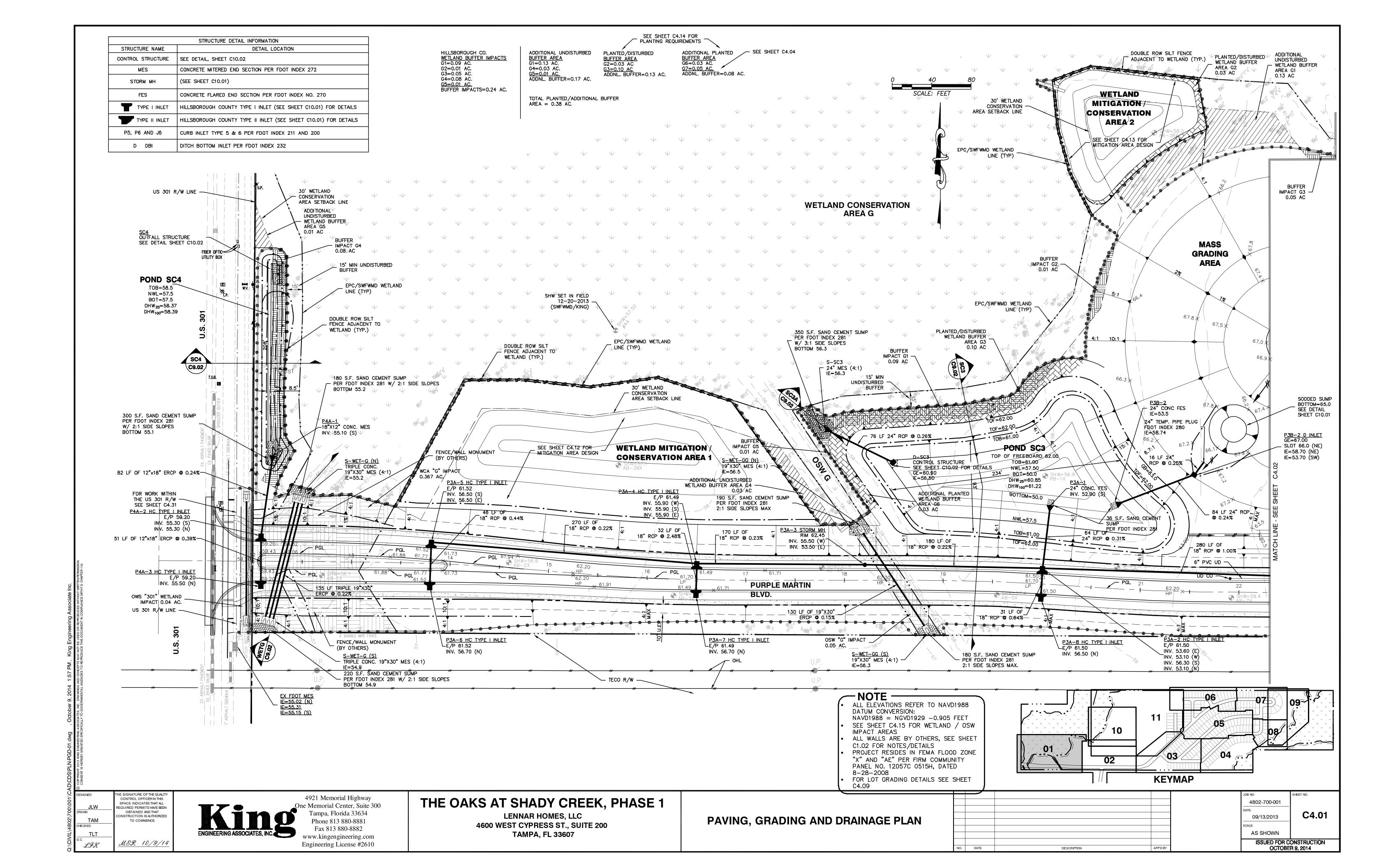


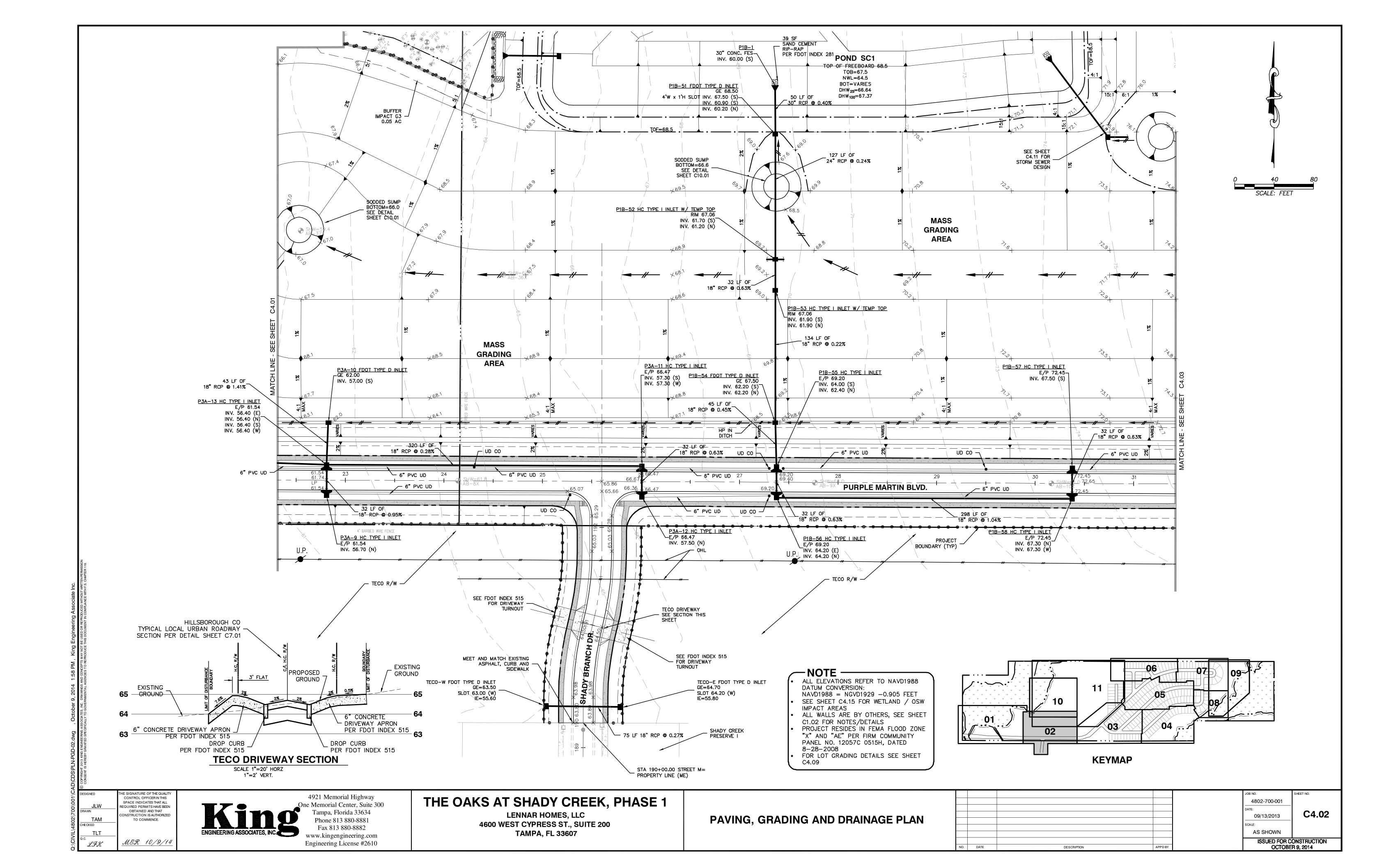


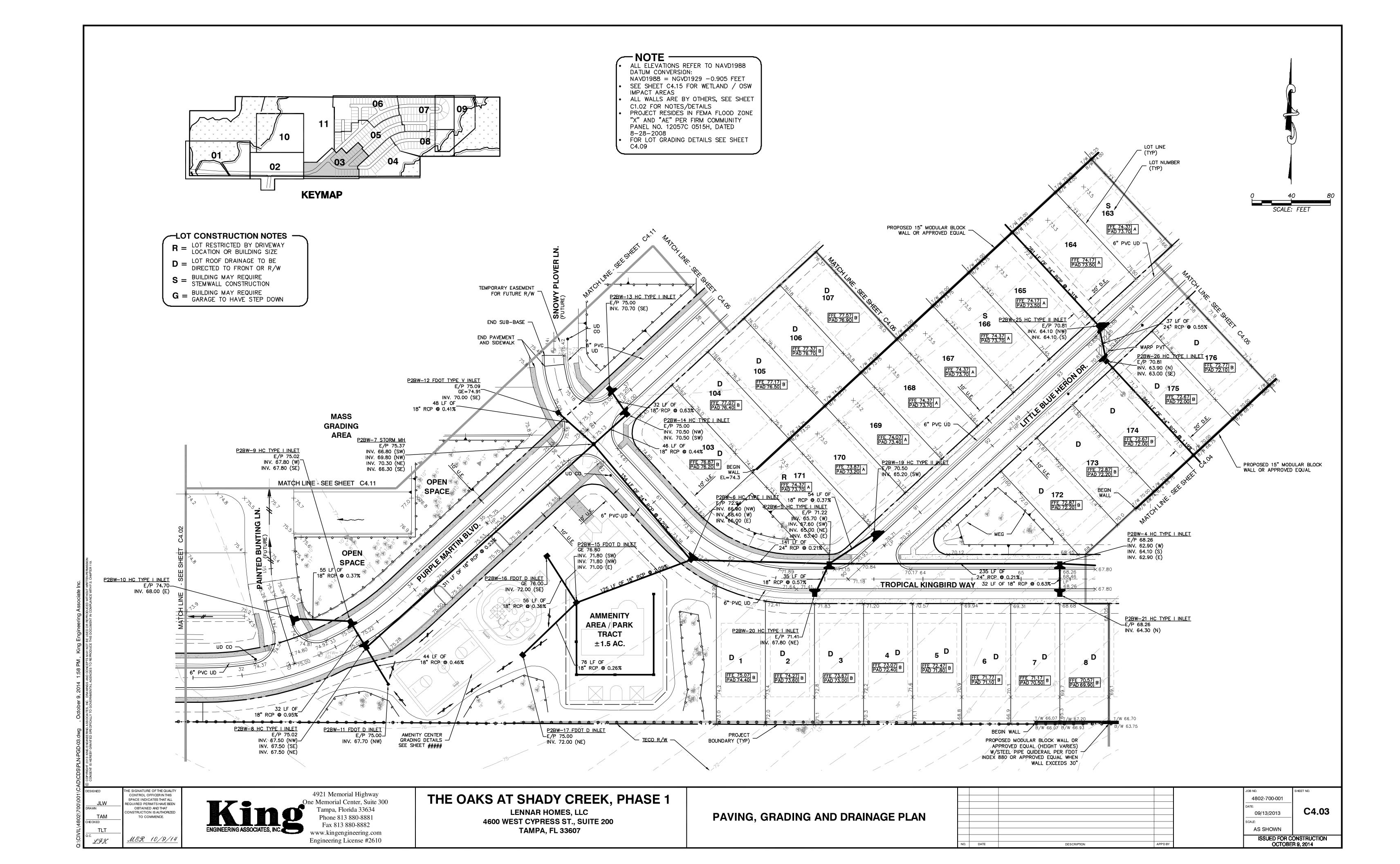


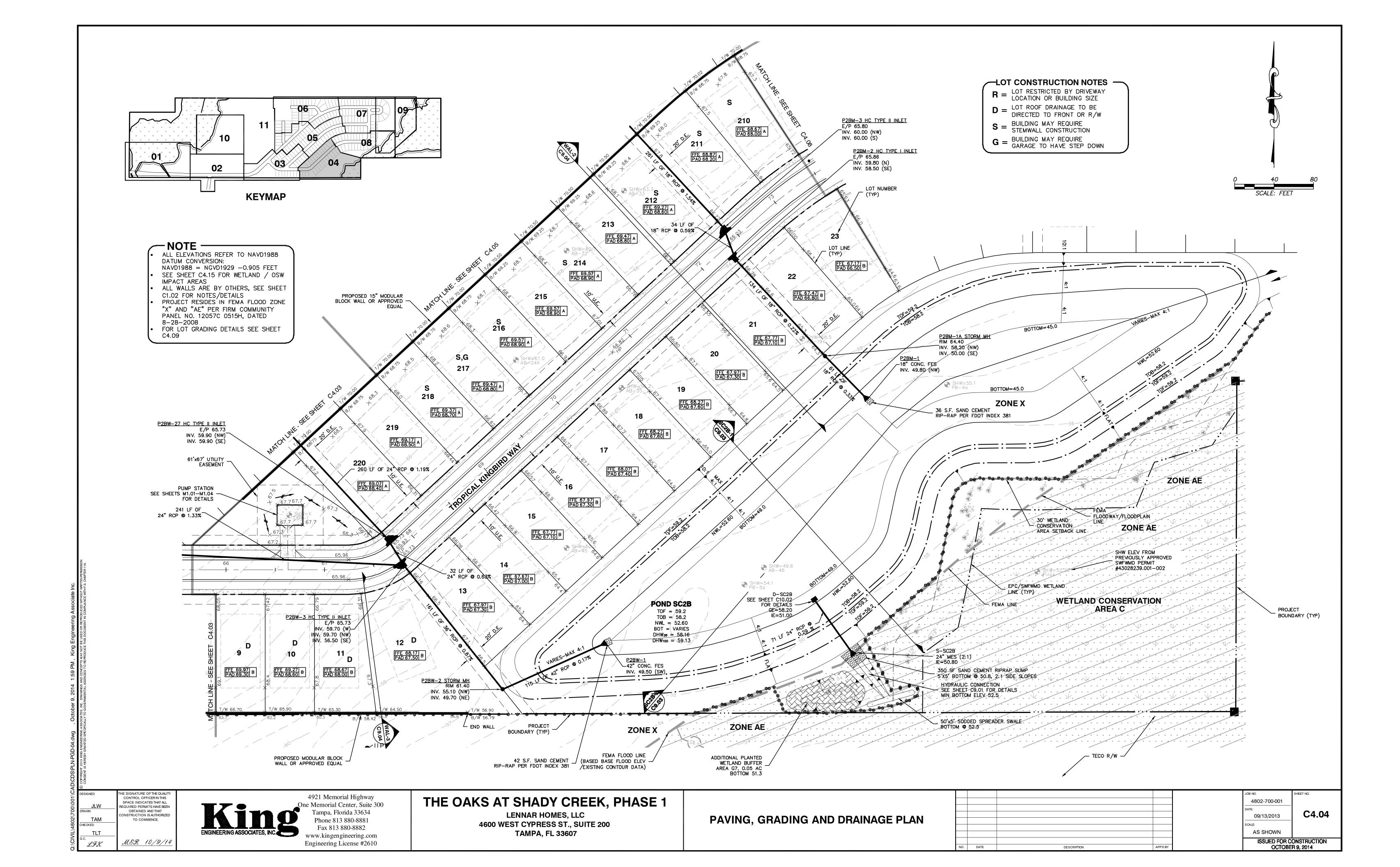


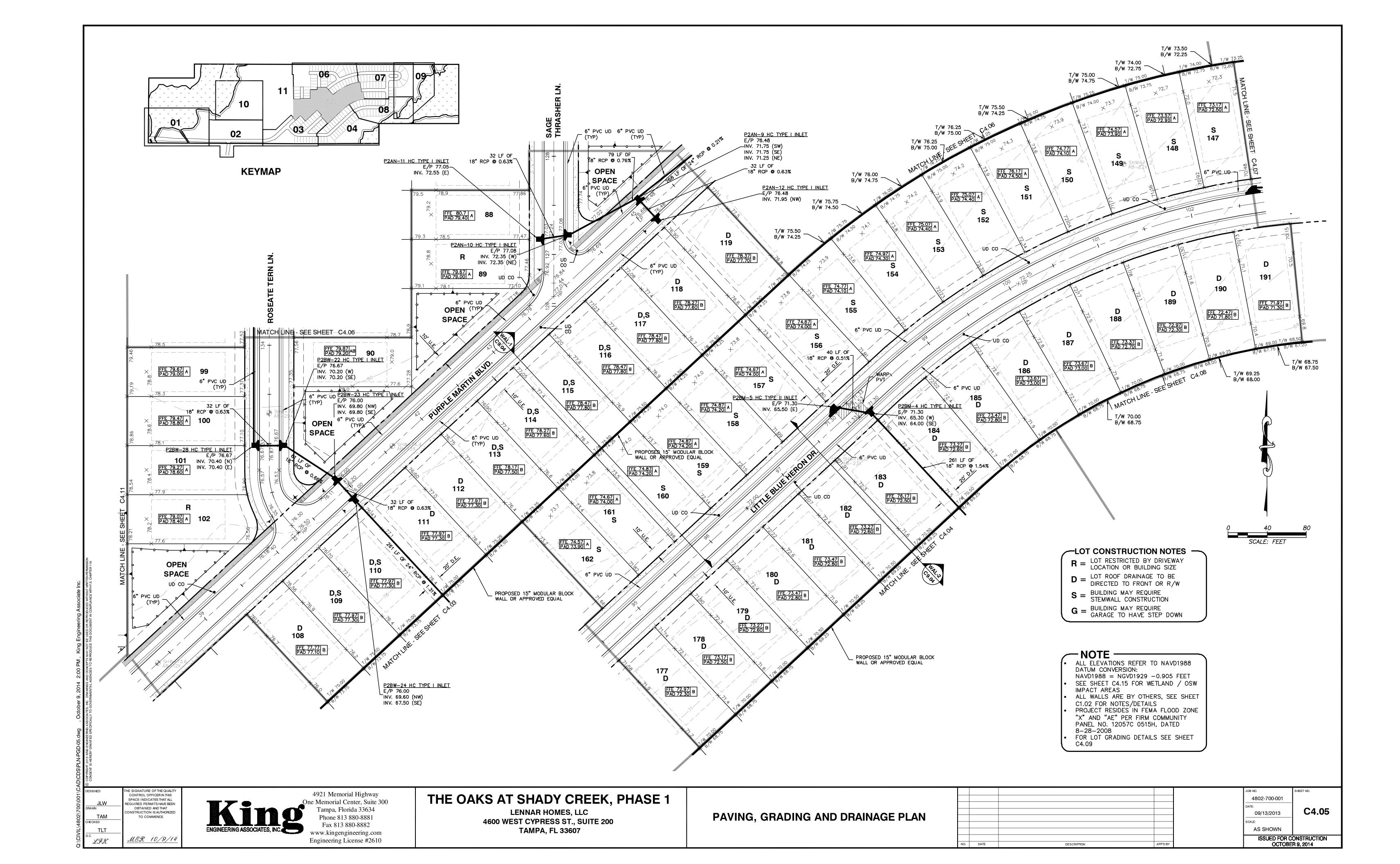


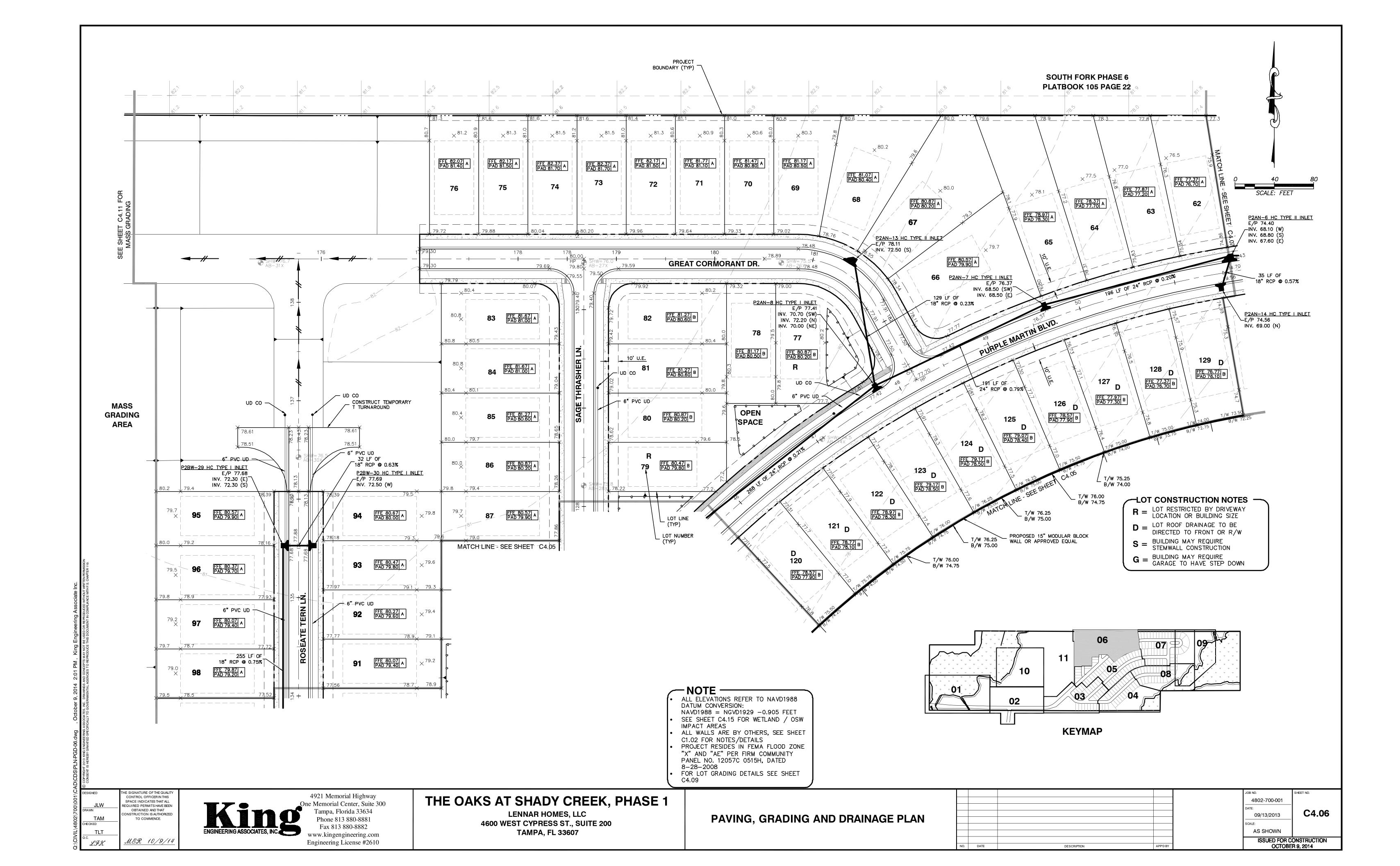


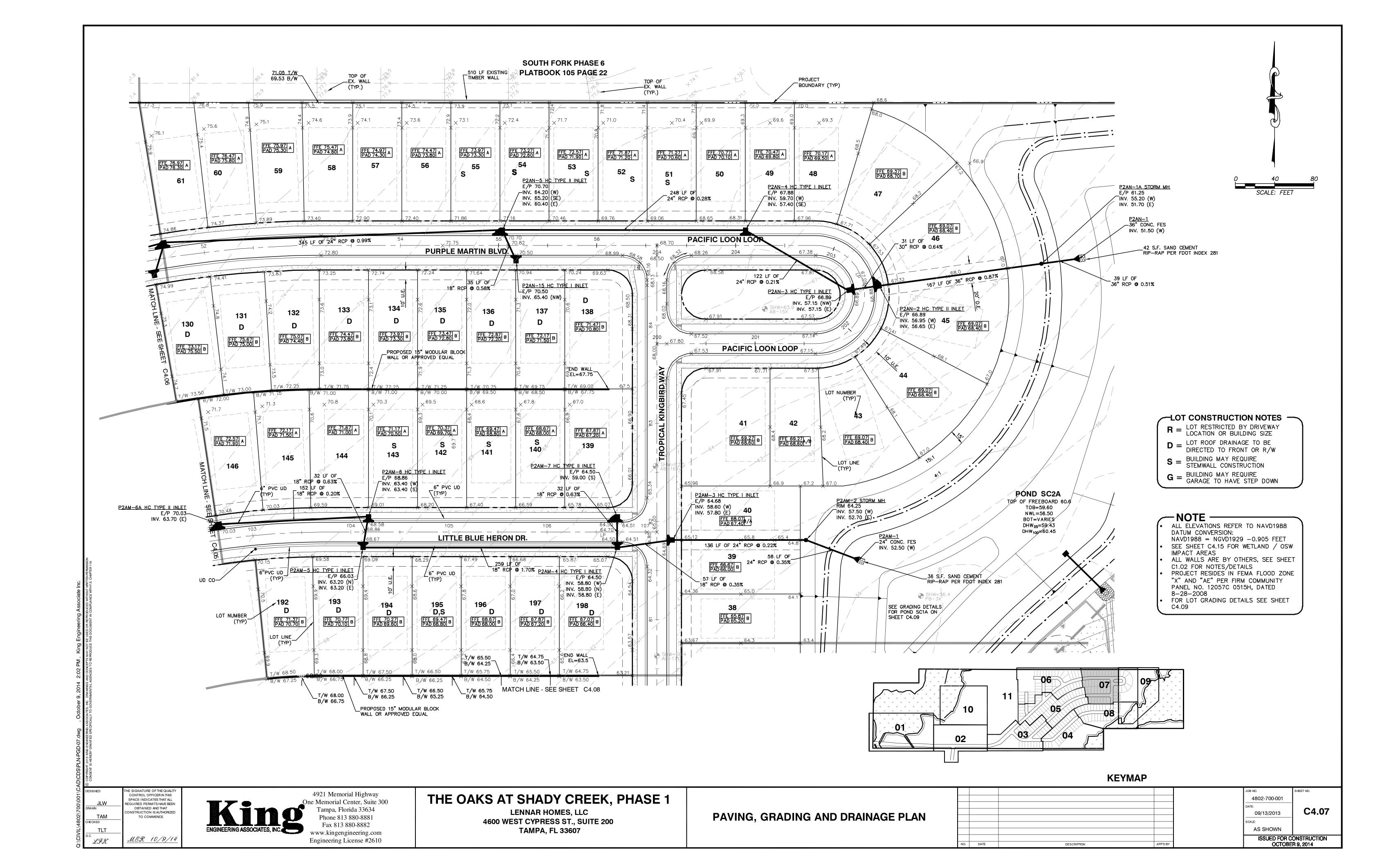


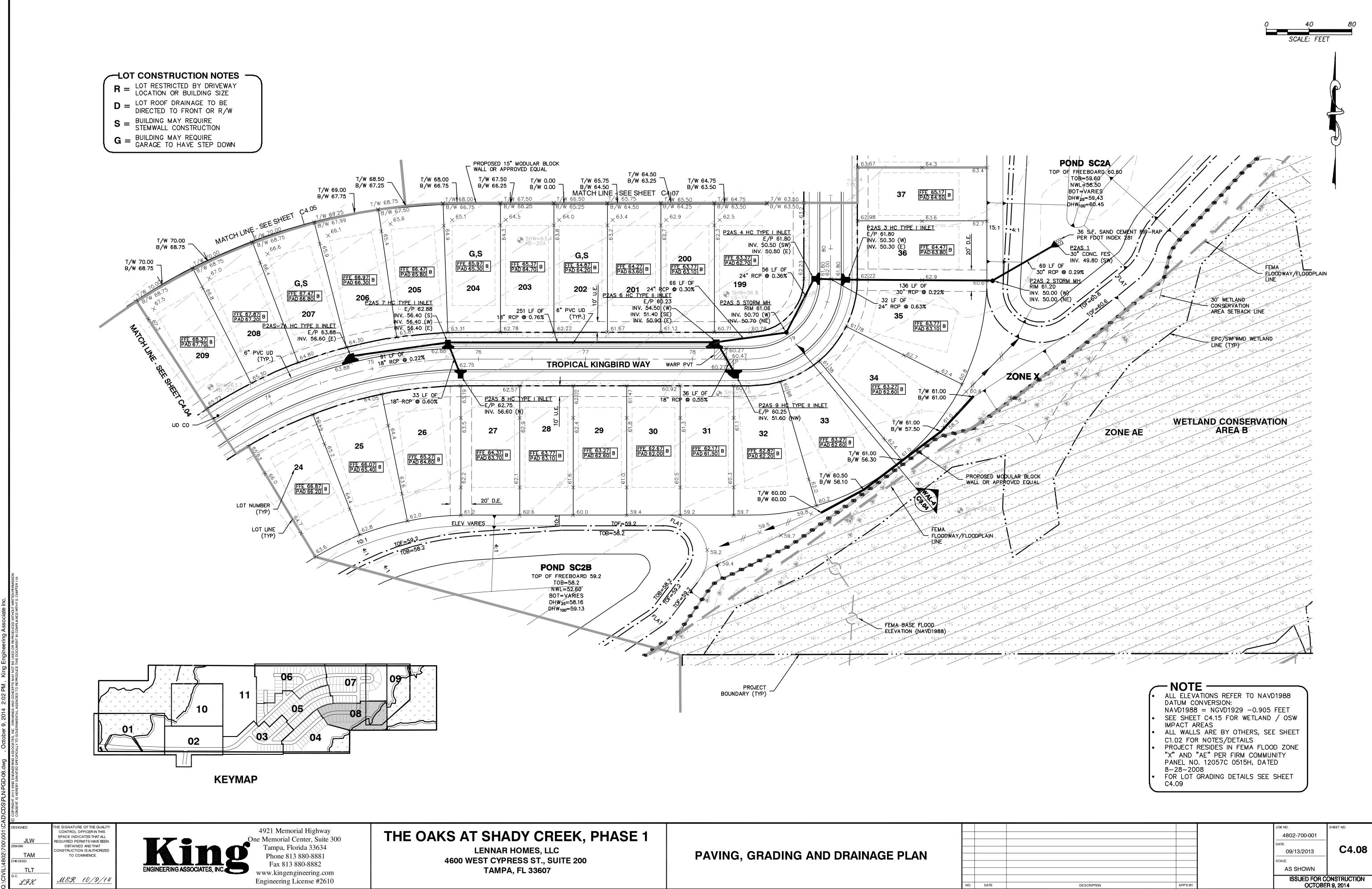


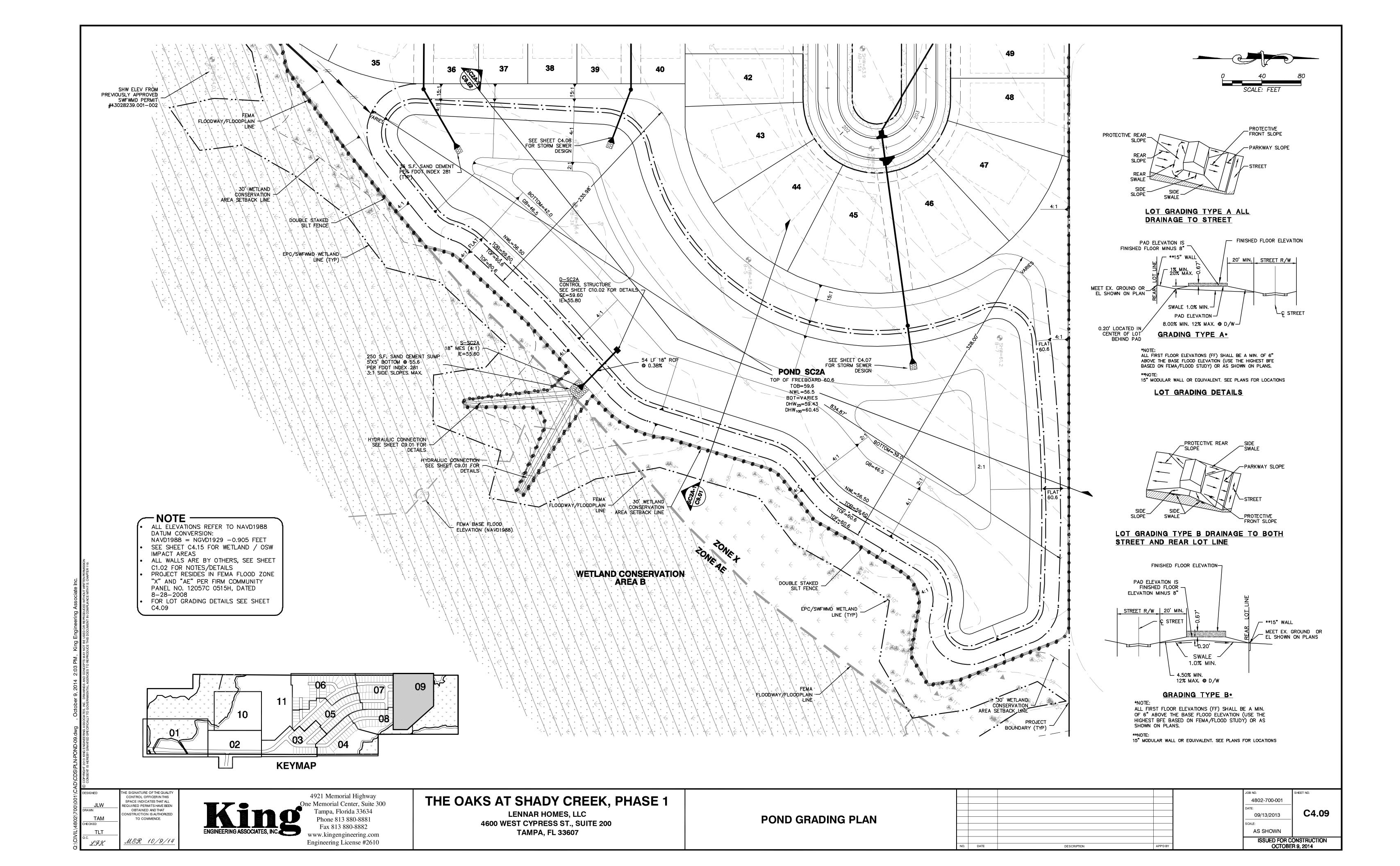


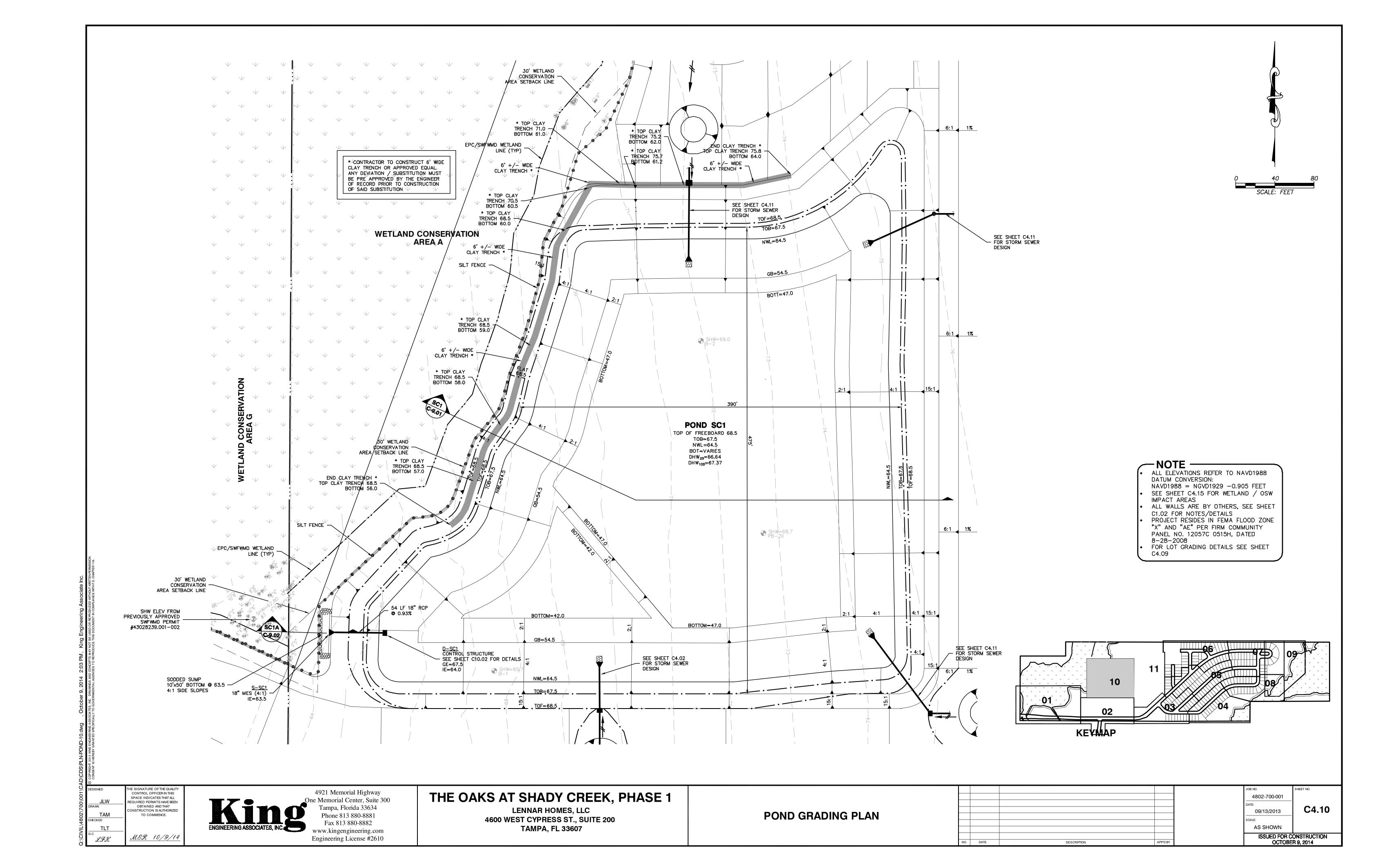


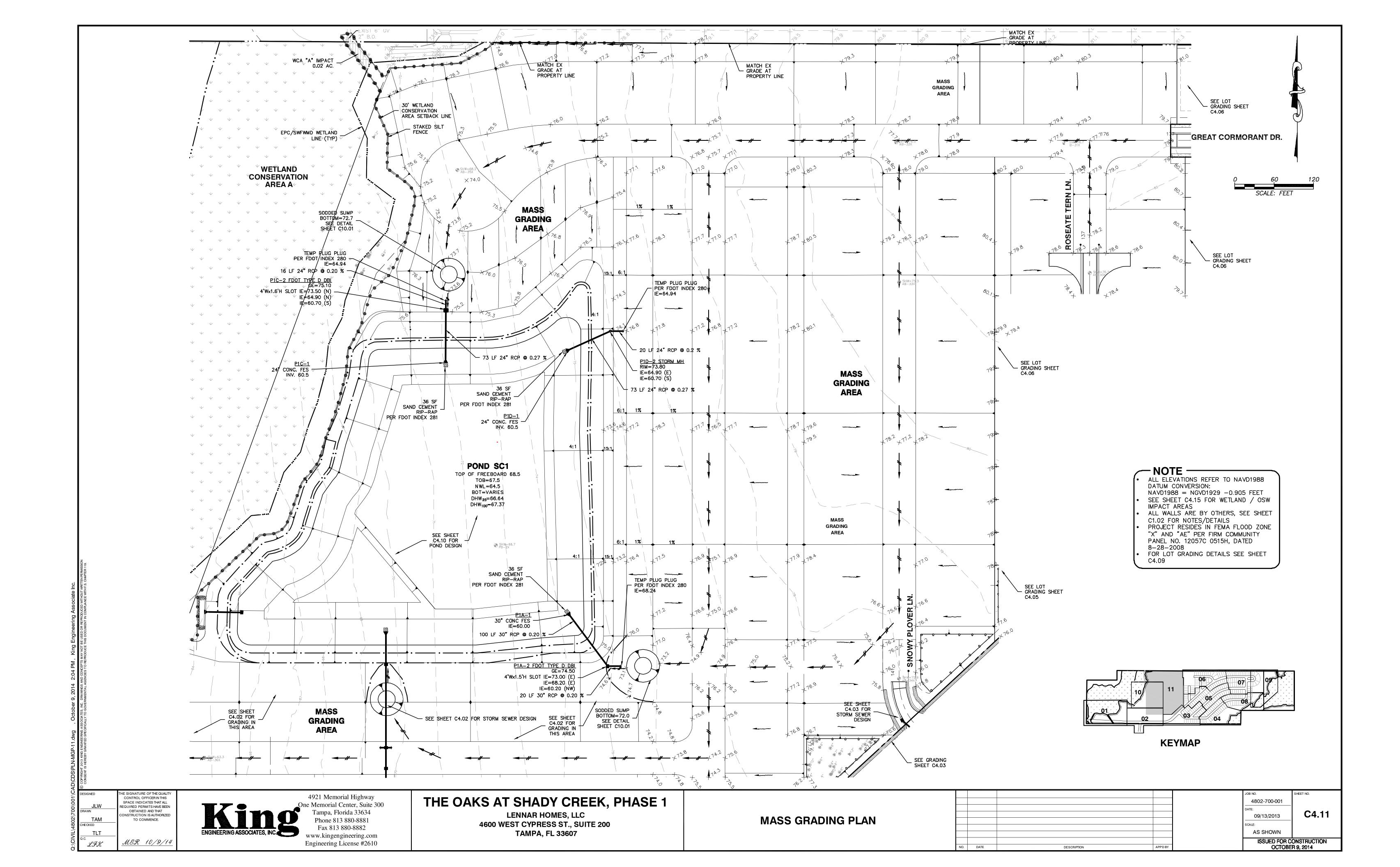


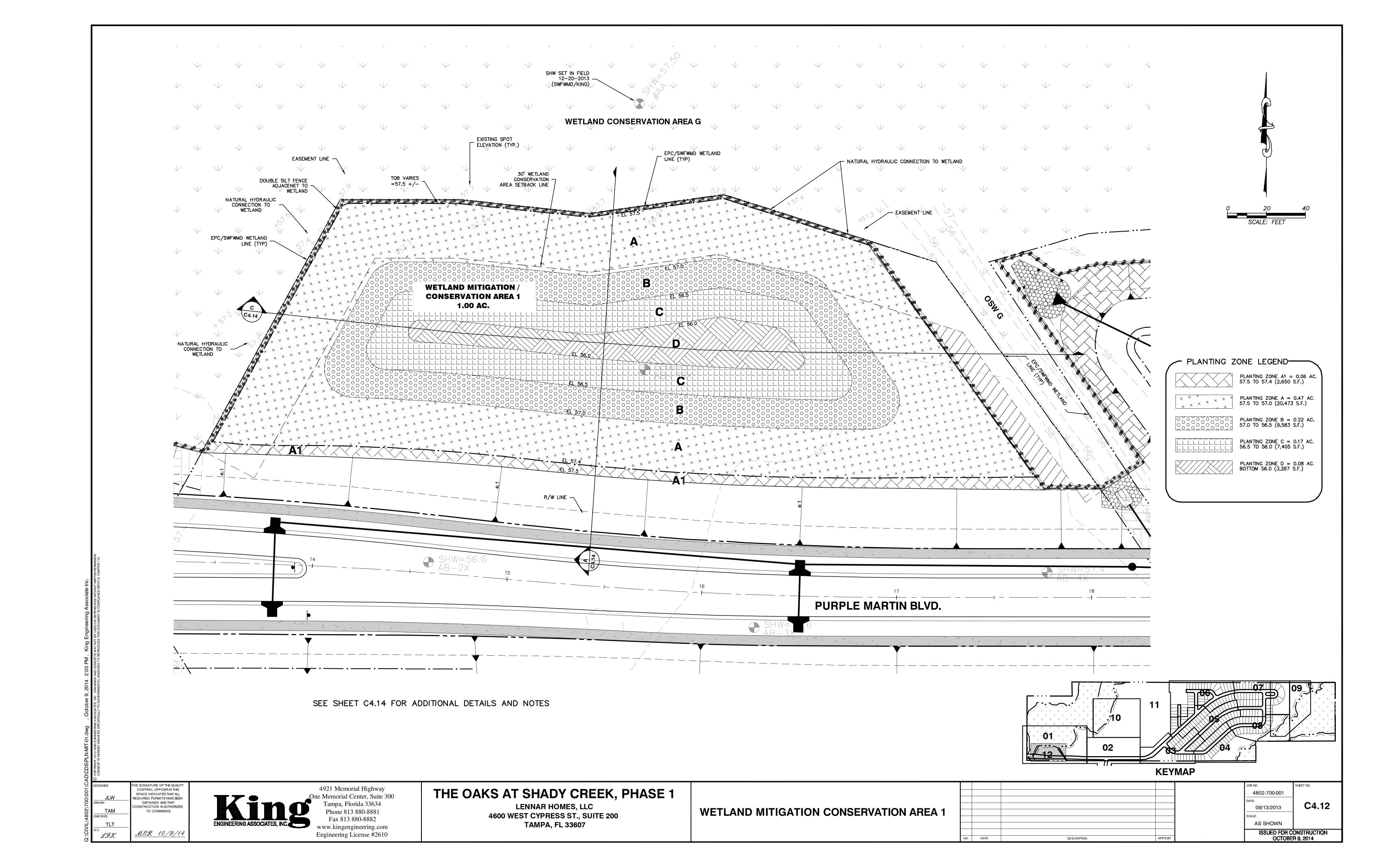


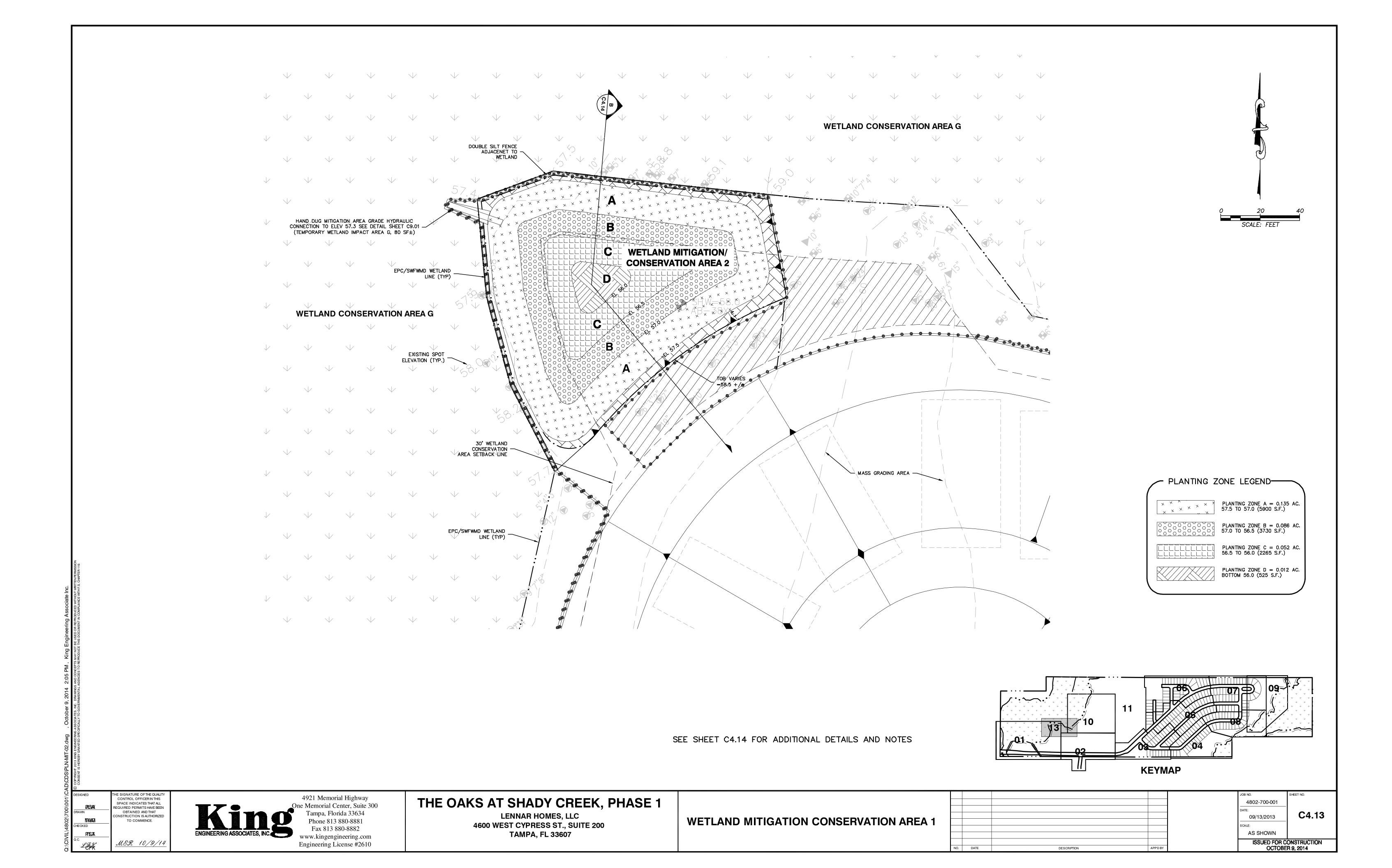












WETLAND CREATION MITIGATION AREA A PLANTING NOTES

A. THE FOLLOWING STANDARDS SHALL BE REQUIRED FOR THE MITIGATION PLANTINGS: STANDARDS FOR WETLAND SHRUBS

SEEDLING 1 GALLON HEIGH1 6 -12" 15-24**"**

18-36* CONTAINER (MIN) 45 DAYS 60 DAYS 60 DAYS

ROOTS ARE TO BE FULLY ROOTED IN POT BUT NOT ROOT-BOUND.

STANDARDS FOR WETLAND HERBS

4 INCH POT 2 INCH POT FULLY ROOTED FULLY ROOTED FULLY ROOTED

CONTAINER (MIN) 45 DAYS 45 DAYS 45 DAYS ROOTS ARE TO BE FULLY ROOTED IN POT BUT NOT ROOT-BOUND.

B. MITIGATION COMPLETION REPORT, TO INCLUDE PLANTING DETAILS OF THE MITIGATION AREA, SHALL BE SUBMITTED TO AGENCY STAFF WITHIN 30 DAYS OF COMPLETING CONSTRUCTION AND PLANTING OF THE MITIGATION AREA. IF THE MITIGATION INVOLVES WETLAND CREATION, AN AS-BUILT SURVEY MUST BE SUBMITTED WHICH INCLUDES REPRESENTATIVE ELEVATIONS OF THE BOTTOM AND SLOPES OF THE CREATION AREA. A CONTOUR LINE WITHIN 0.1' OF THE UPPER DESIGN ELEVATION (TYPICALLY SEASONAL HIGH WATER) SHALL BE DEPICTED ON THE SURVEY. USING THE POLYGON FORMED BY THE UPPER ELEVATION CONTOUR, THE AS-BUILT ACREAGE OF THE MITIGATION AREA(S) SHALL BE CALCULATED AND REPORTED ON THE SURVEY. UPON AGENCY STAFF INSPECTION AND APPROVAL OF THE MITIGATION AREA(S), THE MONITORING PROGRAM SHALL BE INITIATED.

C. SEMI-ANNUAL MONITORING ALONG WITH ASSOCIATED MONITORING REPORTS AND MAINTENANCE IS REQUIRED FOR A MINIMUM OF THREE YEARS FOR HERBACEOUS/ SHRUB SYSTEMS AND FIVE YEARS FOR A FORESTED SYSTEM, MONITORING REPORTS MUST BE SUBMITTED TO AGENCY STAFF WITHIN 30 DAYS FOLLOWING EACH MONITORING EVENT. AT A MINIMUM, MONITORING REPORTS SHOULD ADDRESS:

DATE PLANTED AND NUMBER OF PLANTED MATERIALS USED;

SOIL STABILIZATION MEASURES USED;

PERCENT SURVIVAL OF PLANTED SPECIES:

NUMBER OF PLANTS REPLANTED, IF NECESSARY, AND WHEN PLANTED: 20-25% OF TREES TAGGED TO MONITOR TREE GROWTH RATE AND DBH

(FORESTED SYSTEMS); WATER QUALITY

u. VISUAL OBSERVATIONS

b. LAB DATA IF NECESSARY, I.E. SALINITY, CONDUCTIVITY, PH,

DESIRABLE WETLAND/UPLAND SPECIES COVER;

8. PLANT DIVERSIFICATION AND NATURAL RECRUITMENT (WITH A LISTING OF SPECIES PRESENT);

9. DEPTH OF WATER AT MONITORING EVENT;

10. PERMANENTLY MARKED PHOTO STATIONS;

11. WILDLIFE USAGE:

12. OVERALL ECOLOGICAL EVALUATION; AND, 13. PROBLEMS ENCOUNTERED AND CORRECTIVE ACTIONS IMPLEMENTED OR

D. THE REMOVAL AND CONTROL OF NUISANCE OR EXOTIC SPECIES IS REQUIRED. NUISANCE SPECIES COVERAGE MUST NOT EXCEED FIVE PERCENT (5%). CAESAR WEED (URENA LOBATA), BRAZILIAN PEPPER (SCHINUS TEREBINTHIFOLIUS), AIR POTATO (DIOSCOREA BULBIFERA), EAR POD TREE (ENTERLOBIUM CONTORTISILIQUUM), CATTAILS (TYPHA SPP.), PRIMROSE WILLOW (LUDWIGIA PERUVIANA), DOGFENNEL (EUPATORIUM SPP.), SESBANIA SPP., AND WATER HYACINTHS (EICHHORNÍA SPP.) ARE EXAMPLES OF NUISANCE SPECIES BUT DO NOT REPRESENT A COMPREHENSIVE LIST.

E. EIGHTY-FIVE PERCENT (85%) SURVIVAL MUST BE GUARANTEED FOR EACH PLANTED TREE AND SHRUB SPECIES. FIFTY PERCENT (50%) COVER WITH DESIRABLE NATIVE WETLAND SPECIES MUST BE ACHIEVED AT THE END OF YEAR 1. SEVENTY PERCENT (70%) AT YEAR 2 AND EIGHTY-FIVE PERCENT (85%) PRIOR TO RELEASE. ANNUAL REPLANTING IS REQUIRED IF THESE CRITERIA ARE NOT MÉT.

F. THE PLANT SOURCE MUST BE INDICATED (I.E., CERTIFIED NURSERY GROWN, BARE ROOT. TRANSPLANTED FROM ON SITE). IF COLLECTED PLANTS ARE TO BE USED, DONOR SITES MUST BE IDENTIFIED AND APPROVED BY AGENCY STAFF.

C, THE MITIGATION WORK MUST BE COMPLETED, ALONG WITH THE SUBMITTAL OF THE MITIGATION COMPLETION REPORT, WITHIN 180 DAYS OF THE INITIAL WETLAND IMPACT.

H. MONITORING AND MAINTENANCE MUST CONTINUE UNTIL ALL AGENCY SUCCESS CRITERIA HAVE BEEN MET, AT WHICH TIME A CERTIFICATE OF COMPLETION IS ISSUED. IF SUCCESS CRITERIA CANNOT BE MET, RECONSTRUCTION OF THE MITIGATION SITE MAY BE NECESSARY TO ACHIEVE FUNCTIONING WETLANDS.

STANDARD NOTES FOR MITIGATION CONSTRUCTION

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE CONSTRUCTION OF, THE SUITABILITY OF AND THE PLANTING OF THE MITIGATION AREAS WITH HIS SUBCONTRACTOR(S), IF ANY, TO INSURE THAT THE PLANTING BEDS ARE APPROPRIATE FOR THE PLANTINGS AND IN CONFORMANCE WITH THE CRITERIA BELOW, EACH MITIGATION AREA WILL BE CREATED FROM UPLANDS AS FOLLOWS:

1) THE AREA WILL BE FINAL GRADED (AFTER ROUGH GRADING AND DEPOSITION OF WÉTLAND IMPACT AREA SOILS) ACCORDING TO THE PLAN SPECIFICATIONS FOR EACH INDIVIDUAL MITIGATION AREA. KING SHOULD BE NOTIFIED WHEN ROUGH GRADING OF ALL MITIGATION AREAS IS COMPLETE FOR AN INSPECTION PRIOR TO FINAL GRADING.

2) IF THE CONTRACTOR DETERMINES THAT THE UNDERLYING SOILS IN THE PROPOSED MITIGATION LOCATION ARE UNSUITABLE FOR ESTABLISHMENT OF WETLAND PLANT SPECIES, THE MITIGATION AREA(S) WILL BE OVER-EXCAVATED BY AT LEAST 1.0 FEET TO ALLOW THE PLACEMENT OF SUITABLE SOIL MATERIAL. BACKFILL MATERIAL SHALL NOT CONSIST OF UNSUITABLE MATERIALS SUCH AS CLAY, LARGE BRANCHES OR ROOTS, CONSTRUCTION DEBRIS/STRIPPINGS. OR OTHER UNSUITABLE MATERIAL. AN ALTERNATE SOURCE OF SOIL MATERIAL WILL BE IDENTIFIED BY THE CONTRACTOR AND APPROVED BY KING FOR USE IN THE MITIGATION AREA(S). THE FINAL DESIGN GRADE WILL BE ACHIEVED BY PLACEMENT OF THE IDENTIFIED SOIL MATERIAL TAKEN THE APPROVED DONOR SOURCE.

3) PLANTING SHALL OCCUR AFTER FINAL GRADING AND AS-BUILT SURVEY APPROVAL.

4) WITHIN 48 HOURS OF PLANTING, THE MITIGATION AREA(S) WILL BE WATERED TO THE POINT OF SATURATION, AND ADDITIONAL SUPPLEMENTAL WATERING (IF REQUIRED) SHOULD BE CONSIDERED DURING THE NEXT 30 DAYS AS NEEDED. FOLLOWING THE 30 DAY DRYING PERIOD, AND DURING CONSTRUCTION OF ADJACENT AREAS, THE MITIGATION AREA(S) WILL BE WATERED A MINIMUM OF EVERY 15 DAYS UNTIL TIME ZERO MONITORING INSPECTIONS ARE COMPLETED BY THE AGENCIES, IN ORDER TO PROMOTE VEGETATIVE ESTABLISHMENT.

WETLAND MITIGATION / CONSERVATION AREA 1 PLANTING SCHEDULE

ZONE	ELEV.	SPECIES	COMMON NAME	SPACING	SIZE	NUMBER OF UNITS
A1	57.5'	Myrica cerifera	Wax Myrtle	5' O.C.	1 Gal.	90
Buffer	57.5'	Pinus elliottii	Slash Pine	9' O.C.	3 Gal.	30
A	57.5'-57.0'	Spartina bakeri	Sand Cordgrass	3' O.C.	4" pot	900
	57.5'-57.0'	Juncus effusus	Soft Rush	3' O.C.	4" pot	1375
	57.5'-57.0'	Ulmus americana	American Elm	9' O.C.	3 Gal.	65
	57.5'-57.0'	Acer rubrum	Red Maple	9' O.C.	3 Gal.	65
	57.5'-57.0'	Magnolia virginiana	Sweetbay	9' O.C.	3 Gal.	65
	57.5'-57.0'	Persea palustris	Swamp Bay	9' O.C.	3 Gal.	65
В	57.0'-56.5'	Iris hexagona	Blue Flag Iris	3' O.C.	4" pot	200
	57.0'-56.5'	Panicum hemitomon	Maidencane	3' O.C.	4" pot	435
	57.0'-56.5'	Canna flaccida	Golden Canna	3' O.C.	4" pot	435
	57.0'-56.5'	Fraxinus caroliniana	Pop Ash	9' O.C.	3 Gal.	60
	57.0'-56.5'	Nyssa sylvatica	Black Gum	9' O.C.	3 Gal.	60
	57.0'-56.5'	Cephelanthus occidentalis	Buttonbush	5' O.C.	1 Gal.	380
С	56.5'-56.0'	Pontederia cordata	Pickerelweed	3' O.C.	4" pot	310
	56.5'-56.0'	Eleocharis cellulosa	Coastal Spikerush	3' O.C.	4" pot	310
	56.5'-56.0'	Ceraurus cernum	Lizards Tail	3' O.C.	4" pot	200
D	56.0'	Taxodium distichum	Bald Cypress	9' O.C.	3 Gal.	40
	56.0	Sagittaria lancifolia	Arrowhead	3' O.C.	4" pot	365

Notes: 1) Plants to be obtained from local, licensed nursery.

2) Plants to be installed in naturalistic groupings where possible.

3) Substitution of equivalent size, bare root/collected material may be acceptable if verified

by King Ecologists.

4) Substitution of species providing equivalent function will be acceptable based on availability at time of planting. King Ecologists will approve all proposed substitutions.

5) O.C. = On Center

6) B.R. = Bare Root

7) Zone A1, plants should be placed as a hedge (single row/buffer) along the upper edge of the mitigation area.

Buffer Planting Plan

SPECIES	COMMON	SPACING	SIZE	Number of Units		t s	
	NAME			G2	G3	G6	G7
Pinus elliottii	Slash Pine	10' O.C.	3 Gal.	13	43	13	22
Myrica cerifera	Wax Myrtle	8' O.C.	1 Gal.	10	25	10	15
Serenoa repens	Saw Palmetto	8' O.C.	1 Gal.	10	25	10	15
Callicarpa americana	Beautyberry	8' O.C.	1 Gal.	10	25	10	15
Eragrostis spectabilis	Purple Lovegrass	5' O.C.	4" pot	30	90	30	45
Spartina bakeri	Sand Cordgrass	5' O.C.	4" pot	30	90	30	45

Notes: 1) Plants to be obtained from local, licensed nursery.

2) O.C. = On Center 3) Plants to be installed in naturalistic groupings in open spaces in the existing natural

WETLAND MITIGATION / CONSERVATION AREA 2 PLANTING SCHEDULE

ZONE	ELEV.	SPECIES	COMMON	SPACING	SIZE	NUMBER
			NAME			OF UNITS
A	57.5'-57.0'	Spartina bakeri	Sand Cordgrass	3' O.C.	4" pot	250
	57.5'-57.0'	Juncus effusus	Soft Rush	3' O.C.	4" pot	400
	57.5'-57.0'	Ulmus americana	American Elm	9' O.C.	3 Gal.	20
·	57.5'-57.0'	Acer rubrum	Red Maple	9' O.C.	3 Gal.	20
	57.5'-57.0'	Magnolia virginiana	Sweetbay	9' O.C.	3 Gal.	20
	57.5'-57.0'	Persea palustris	Swamp Bay	9' O.C.	3 Gal.	20
В	57.0'-56.5'	Iris hexagona	Blue Flag Iris	3' O.C.	4" pot	100
	57.0'-56.5'	Panicum hemitomon	Maidencane	3' O.C.	4" pot	160
	57.0'-56.5'	Canna flaccida	Golden Canna	3' O.C.	4" pot	160
	57.0'-56.5'	Fraxinus caroliniana	Pop Ash	9' O.C.	3 Gal.	46
'	57.0'-56.5'	Nyssa sylvatica	Black Gum	9' O.C.	3 Gal.	46
	57.0'-56.5'	Cephelanthus occidentalis	Buttonbush	5' O.C.	1 Gal.	100
C	56.5'-56.0'	Pontederia cordata	Pickerelweed	3' O.C.	4" pot	251
	56.5'-56.0'	Eleocharis cellulosa	Coastal Spikerush	3' O.C.	4" pot	251
	56.5'-56.0'	Ceraurus cernum	Lizards Tail	3' O.C.	4" pot	251
D	56.0'	Taxodium distichum	Bald Cypress	9' O.C.	3 Gal.	7
	56.0'	Sagittaria lancifolia	Arrowhead	3' O.C.	4" pot	60

Notes: 1) Plants to be obtained from local, licensed nursery.

2) Plants to be installed in naturalistic groupings where possible.

3) Substitution of equivalent size, bare root/collected material may be acceptable if verified

by King Ecologists.

4) Substitution of species providing equivalent function will be acceptable based on availability at time of planting. King Ecologists will approve all proposed substitutions.

5) O.C. = On Center

6) B.R. = Bare Root

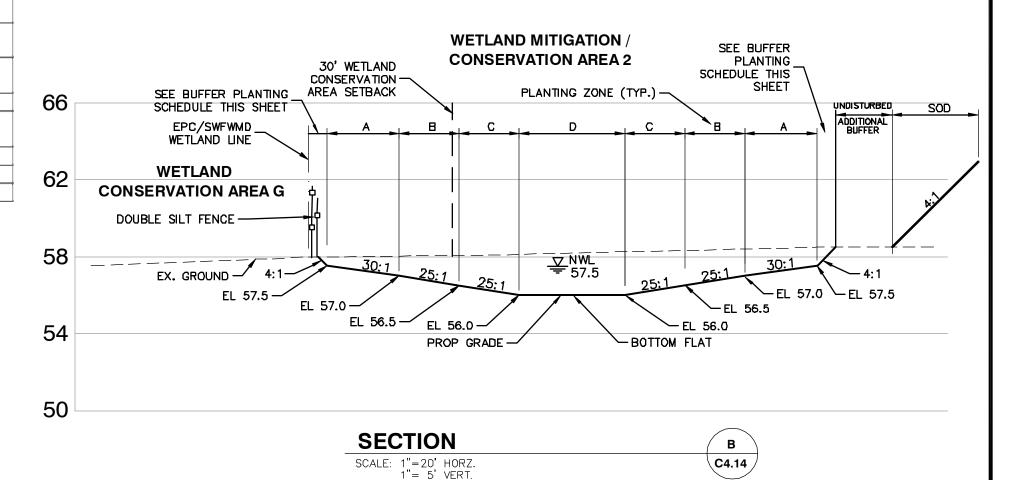
7) Zone A1, plants should be placed as a hedge (single row/buffer) along the upper edge of the

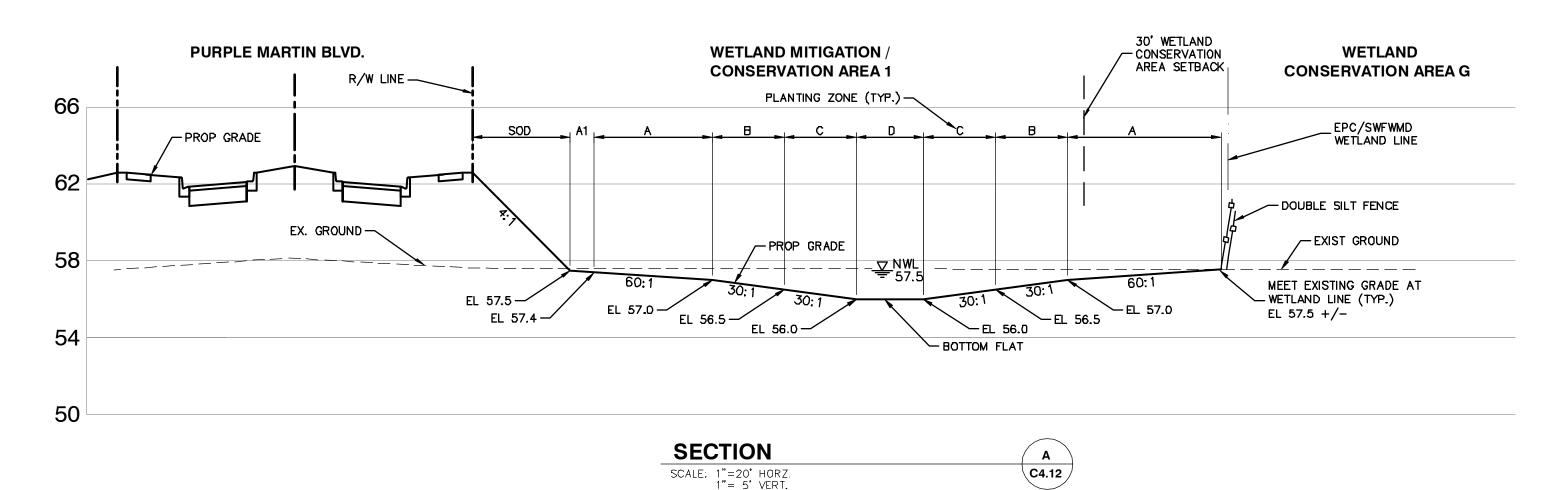
BUFFER SETBACK ENHANCMENT NOTES

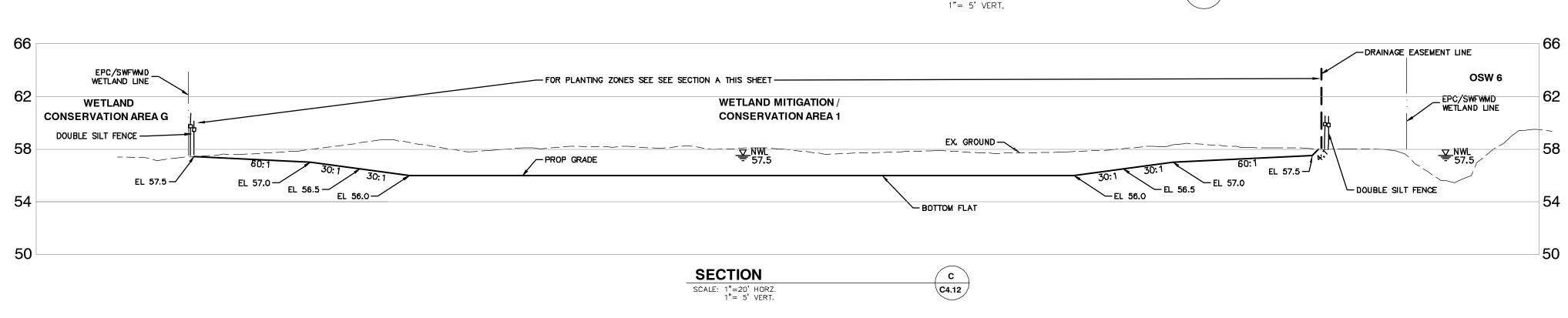
MONITORING REQUIREMENTS:

Monitoring of planted areas shall consist of the following:

- A time-zero report, listing species and #s planted, upon completion of the plantings shall be provided to the Natural Resources Section of PGMD no later than 30 days following planting completion.
- Two annual reports that list survival % per species and any required replants shall be provided to the Natural Resources Section of PGMD no later than 30 days following data collection.
- Planted shrub species must maintain a minimum 85% survival rate with annual replanting if needed. Exotic and nuisance species (reference most current Florida Exotic Pest Plan Council list) cover within the planting zones must be maintained below 10%.
- For nuisance species control programs areas, all exotic and nuisance species must be removed during the initial control event(s) and total nuisance species coverage must be maintained below 10% for 2 years thereafter.







CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL OBTAINED AND THAT STRUCTION IS AUTHORIZED

MER 10/9/14

www.kingengineering.com

4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882

Engineering License #2610

THE OAKS AT SHADY CREEK, PHASE 1

LENNAR HOMES, LLC 4600 WEST CYPRESS ST., SUITE 200 **TAMPA, FL 33607**

MITIGATION AREA NOTES AND DETAILS

		JOB NO. 4802-700-001 DATE: 09/13/2013 SCALE: AS SHOWN	SHEET NO. C4.14
DESCRIPTION	APP'D BY		CONSTRUCTION ER 9, 2014

