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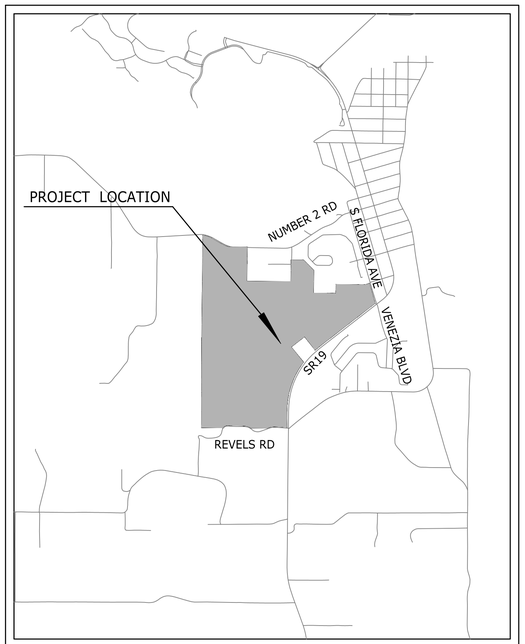
HILLSIDE GROVE PHASES 2-4

HOWEY IN THE HILLS



VICINITY MAP
N.T.S.

PREPARED FOR
MERITAGE HOMES
5337 MILLENIA LAKES BLVD, STE. 235
ORLANDO, FL 32839
PHONE: (407) 284-4152

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CONNELLY & WICKER, LLC
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No.	Date	Revision	By
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COVER SHEET

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079
Designed: JEW | Drawn: DCG
Checked: JEW | O.C.: RCW
Date: September 22, 2025
Scale: NA
Sheet 1

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THIS DOCUMENT HAS BEEN DIGITALLY SIGN AND SEALED BY:

JUSTIN E. WILLIAMS LICENSE No. 69260 STATE OF FLORIDA PROFESSIONAL ENGINEER

Justin E Williams

Digitally signed by Justin E Williams
DN: cn=Justin E Williams, c=US, o=CONNELLY AND WICKER INC., email=jwilliams@cwieng.com
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JUSTIN E. WILLIAMS, P.E. NO. 69260

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15–23.004, F.A.C.

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SIGNATURE SHEET

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	September 22, 2025
Scale:	NA
Sheet	1A

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GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY STANDARDS, (LATEST REVISION) AND ALL CURRENT CITY STANDARD DETAILS. CONTRACTOR SHALL COMPLY WITH CURRENT A.D.A. CODE FOR ALL WORK ON THIS PROJECT.
2. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS THROUGHOUT THE PROJECT AREA TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL REQUIRED TO BE REMOVED AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
5. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND THE OWNER OF STREET [TODD 1 LLC ET AL (ST JOHNS TOWN CENTER)] FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND THE CITY.
6. FOR BOUNDARY, ROADWAY AND LOT GEOMETRY INFORMATION SEE PLAT OR ALTA SURVEY.
7. THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH COUNTY REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO ROAD BASE PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATIONS FOR UNDERDRAIN PLACEMENT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING CITY RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY RIGHT-OF-WAY OR EASEMENT, ALTHOUGH NO WORK IS EXPECTED WITHIN THE RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR, ALTHOUGH NO WORK IS EXPECTED WITHIN THE RIGHT-OF-WAY.
10. ALL PUBLIC DRAINAGE EASEMENTS SHALL BE "UNOBSTRUCTED" EASEMENTS. ALL "UNOBSTRUCTED" EASEMENTS TO BE CLEAR AND DRIVEABLE.
11. "AS-BUILT" DRAWINGS – AS-BUILTS TO THE CITY AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY STANDARDS AND SPECIFICATIONS AND S.J.R.W.M.D. REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE CITY.
12. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
13. CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT, AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
14. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
15. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
16. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
17. ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
18. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
19. BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH CITY FIRE MARSHAL.
20. ROADWAY UNDERDRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARATION OF THE PAVEMENT SUB-BASE.
21. PROVIDE CONTRACTION JOINTS AT 10' O.C. AND EXPANSION JOINTS AT 50' O.C. FOR CURBING. PROVIDE CONTRACTION JOINTS AT 6' O.C. AND EXPANSION JOINTS AT 18' O.C. ON ALL EXTERIOR SIDEWALKS.
22. MAINTENANCE OF TRAFFIC SHALL CONFORM TO PLAN HEREIN.
23. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CITY OF JACKSONVILLE PAVEMENT MARKINGS STANDARDS. REFER TO L.D.P.M. #1.8 REGARDING SIGNAGE REQUIREMENTS..
24. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING METHOD APPROVED BY THE CITY.
25. ALL STORM PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

UTILITY NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
2. PRIOR TO THE PLACEMENT OF BASE COURSE, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES. THE SCHEDULE SHALL BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE AS-BUILT DRAWINGS FOR THIS PROJECT.
3. THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS AND VERIFY THAT ALL MATERIALS ARE ON THE UTILITY PROVIDER'S APPROVED MATERIAL LIST. THE CONTRACTOR SHALL SIGN OFF THAT SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED. SUBMIT SHOP DRAWINGS ON ALL MATERIALS, IF REQUIRED, TO THE ENGINEER FOR REVIEW AND APPROVAL, PRIOR TO SUBMITTAL TO THE UTILITY HAVING JURISDICTION, AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
4. ALL SEWER MAINS SHALL BE PVC (ASTM-3034) SDR-26, FORCE MAINS ARE TO BE PVC DR-18 UNLESS OTHERWISE NOTED.
5. ALL WATER AND SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 OF THE FLORIDA STATUTES.
6. SANITARY SEWER SERVICES SHALL BE 6" PVC WITH A MINIMUM SLOPE OF 1 INCH PER 8 FEET AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 36" – 60" UNLESS OTHERWISE DETAILED OR RESTRICTED DUE TO DEPTH OF SEWER MAIN.
7. WATER MAINS, REUSE MAINS AND FORCE MAINS SHALL HAVE A MINIMUM OF 30" COVER UNDER UNPAVED AREAS AND 36" MINIMUM COVER FROM FINISHED GRADE UNDER PAVED AREAS UNLESS OTHERWISE NOTED. MAINS ARE DESIGNED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
8. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS, VALVES AND FITTINGS, STORM SEWERS AND SANITARY SEWERS SHALL BE IN ACCORDANCE WITH FDEP REQUIREMENTS AND UTILITY HAVING JURISDICTION STANDARD SPECIFICATIONS (LATEST EDITION).
9. ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH AWWA C651 DISINFECTION STANDARDS AND BACTERIOLOGICALLY TESTED UNDER THE DIRECTION OF THE UTILITY HAVING JURISDICTION. SATISFACTORY BACTERIOLOGICAL RESULTS SHALL BE PROVIDED TO THE ENGINEER. ADDITIONALLY, ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA C600-87 STANDARDS AND UTILITY HAVING JURISDICTION STANDARD REQUIREMENTS. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN DISINFECTED, PRESSURE TESTED, AND CLEARED FOR SERVICE. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.
10. MECHANICAL RESTRAINING JOINTS ARE REQUIRED IN ACCORDANCE WITH UTILITY HAVING JURISDICTION STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS, REDUCERS, VALVES AND TEES.
11. UNLESS OTHERWISE NOTED, ALL WATER MAIN 4" AND GREATER SHALL BE PVC DR-18, C-900 AND ALL WATER MAIN 3" OR SMALLER SHALL BE HDPE SDR-9.
12. HORIZONTAL SEPARATION BETWEEN WATER MAINS, VALVES, FITTINGS AND GRAVITY SANITARY SEWER MAINS AND STRUCTURES SHALL BE A MINIMUM OF 6 FEET (3 FEET FOR GRAVITY STORM SEWER) (OUTSIDE OF PIPE TO OUTSIDE OF PIPE OR STRUCTURE) OR IN ACCORDANCE WITH F.D.E.P. REGULATIONS.
13. WHERE PARALLEL WATER AND SEWER (INCLUDING STORM) LINES HAVE LESS THAN 6 FEET HORIZONTAL SEPARATION, FULL-UNCUT LENGTHS OF WATER QUALITY PIPE (I.E. DR 18 AWWA C-900 FOR NEWLY INSTALLED SEWER & DR-18 AWWA C-900 WATER) WILL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS OR THEY WILL BE PLACED ON AN UNDISTURBED SHELF OR IN A SEPARATE TRENCH WITH A MINIMUM VERTICAL SEPARATION OF AT LEAST 18 INCHES. IT IS PREFERABLE TO HAVE THE WATER MAINS LOCATED ABOVE THE SEWER AND WITH 6 FEET OF SEPARATION WHERE POSSIBLE.
14. WHERE IT IS NOT POSSIBLE FOR WATER AND SEWER (INCLUDING STORM) LINES TO CROSS WITH A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE, A FULL UNCUT LENGTH OF WATER QUALITY PIPE (I.E. DR 18 AWWA C-900 FOR NEWLY INSTALLED SEWER & DR 18 AWWA C-900 WATER) WHICH IS USUALLY 20 FEET LONG WILL BE CENTERED ON THE POINT OF CROSSING. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION. THE MINIMUM VERTICAL SEPARATION BETWEEN WATER AND SEWER (INCLUDING STORM) PIPES WHEN 18 INCHES IS NOT POSSIBLE WILL BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER WHEN WATER MAIN IS ON TOP (12" WHEN WATER MAIN IS ON BOTTOM). IT IS PREFERABLE TO HAVE THE WATER MAIN ABOVE THE SEWER LINES AND AT LEAST 18 INCHES VERTICAL SEPARATION.
15. A FULL UNCUT LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSINGS REGARDLESS OF VERTICAL SEPARATIONS.
16. IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES SHALL BE NOTIFIED. WITH THE APPROVAL OF THE AGENCY HAVING JURISDICTION HEALTH DEPARTMENT, DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED SOLVENT. ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE REMOVED FROM THE SITE FOR PROPER DISPOSAL.
17. THE RECORD OR AS-BUILT DRAWINGS SHALL BE PER UTILITY HAVING JURISDICTION REQUIREMENTS. AS-BUILT DRAWINGS SHALL CLEARLY DEPICT VERTICAL SEPARATIONS AT ALL WATER MAIN CROSSINGS WITH REUSE, SANITARY SEWER, FORCE MAIN AND STORM SEWER. AS-BUILT DRAWINGS SHALL ALSO CLEARLY DEPICT VERTICAL SEPARATIONS AT ALL REUSE MAIN CROSSINGS WITH SANITARY SEWER, AND FORCE MAINS. HORIZONTAL SEPARATIONS SHALL BE SHOWN BETWEEN WATER MAINS AND PARALLEL REUSE MAINS, SANITARY SEWER MAINS, FORCE MAINS AND STORM SEWERS. HORIZONTAL SEPARATIONS SHALL BE SHOWN BETWEEN WATER MAINS AND STORM SEWER AND SANITARY SEWER STRUCTURES (OUTSIDE OF PIPE TO OUTSIDE OF PIPE AND STRUCTURE). HORIZONTAL SEPARATIONS SHALL ALSO BE SHOWN BETWEEN REUSE MAINS AND PARALLEL FORCE MAINS AND SANITARY SEWER MAINS AND STRUCTURES (OUTSIDE OF PIPE TO OUTSIDE OF PIPE AND STRUCTURE).
18. ALL GATE VALVES SHALL BE PER UTILITY HAVING JURISDICTION STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 250 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
19. ALL FIRE HYDRANTS SHALL BE UTILITY HAVING JURISDICTION STANDARD. FIRE HYDRANTS LOCATED WITHIN COUNTY RIGHT-OF-WAYS OR EASEMENTS SHALL BE PAINTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
20. ALL NEW FIRE HYDRANT INSTALLATIONS, PUBLIC AND PRIVATE, SHALL HAVE A BLUE FDOT TYPE REFLECTIVE PAVEMENT MARKER INSTALLED IN THE CENTER OF THE TRAFFIC LANE NEAREST THE NEW FIRE HYDRANT.
21. A UTILITY COMPANY PRECONSTRUCTION CONFERENCE MUST BE HELD PRIOR TO COMMENCEMENT OF WATER OR SEWER WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY TO SCHEDULE THIS CONFERENCE.
22. THE TAPS ARE TO BE SCHEDULED A MINIMUM OF 48 HOURS IN ADVANCE BY CONTACTING THE UTILITY HAVING JURISDICTION.
23. CONNECTION IS CONTINGENT UPON CONSTRUCTION, DEDICATION AND FINAL ACCEPTANCE OF THE OFFSITE WATER TRANSMISSION SYSTEM AND SEWER COLLECTION SYSTEM WITHIN THE LIMITS OF THIS PROJECT.
24. THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
25. ALL NEW AND/OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDERS AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.
26. TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. GRAVITY SEWER LINE SHALL BE VIDEO TAPED. ALL LINES TO BE CLEANED AND FLUSHED PRIOR TO BEING VIDEO TAPED. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE, AND A COPY OF THE VIDEO TAPE SHALL BE SUBMITTED TO THE UTILITY HAVING JURISDICTION. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE.
27. THE MAXIMUM DEFLECTION SHALL NOT EXCEED 5% OF NOMINAL DIAMETER IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECT STANDARDS. MAXIMUM DEFLECTION SHALL BE TESTED USING A MANDREL WITH A DIAMETER OF NOT LESS THAN 95% OF THE AVERAGE INSIDE DIAMETER OF THE PIPE.
28. INFILTRATION AND EXFILTRATION TESTING OF GRAVITY SEWERS SHALL BE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. INFILTRATION / EXFILTRATION TESTING SHALL BE PERFORMED WITH A MINIMUM OF 2' OF POSITIVE HEAD. THE MAXIMUM ALLOWABLE RATE WILL BE 50 GALLONS PER INCH DIAMETER PER MILE PER DAY. AIR TESTS, AS A MINIMUM, SHALL CONFORM TO ASTM STANDARDS FOR THE PIPE MATERIAL.
29. ALL MANHOLES SHALL BE INSPECTED FOR WATER TIGHTNESS AND DAMAGE PRIOR TO PLACING INTO SERVICE. AIR TESTING SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.
30. CONTRACTOR SHALL OBTAIN A COPY OF THE FDEP WATER AND WASTEWATER PERMITS FROM THE ENGINEER PRIOR TO START OF CONSTRUCTION.
31. IT IS THE CONTRACTORS RESPONSIBILITY THAT ALL WATER, SEWER AND REUSE CONSTRUCTION BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CRITERIA AND CURRENT STANDARD DETAILS AND SPECIFICATIONS OF THE UTILITY HAVING JURISDICTION (LATEST REVISIONS). THE CONTRACTOR SHALL OBTAIN A COPY OF THE STANDARD DETAILS AND SPECIFICATIONS FROM THE UTILITY HAVING JURISDICTION PRIOR TO BEGINNING CONSTRUCTION.
32. ALL ELECTRICAL CONDUIT WORK SHALL BE COMPLETED PRIOR TO THE PRESSURE TESTING OF WATER, REUSE AND SEWER FORCE MAINS.
33. CONTRACTOR SHALL FURNISH AND INSTALL LOCATE WIRING ON ALL PVC WATER MAINS, FORCE MAINS, POLYETHYLENE AND PVC WATER SERVICES. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE UTILITY HAVING JURISDICTION (LATEST REVISION).
34. THE CONTRACTOR SHALL INSTALL ANY ADDITIONAL AIR RELEASE VALVES AT CHANGES IN ELEVATION OF 2 FT DUE TO ACTUAL FIELD CONDITIONS OR CONFLICTS NOT IDENTIFIED ON THESE DESIGN DRAWINGS.
35. ALL FUTURE WATER, REUSE AND FORCE MAIN STUB OUTS WILL HAVE A PIPE LENGTH OF AT LEAST 20' PAST THE GATE VALVE.
36. ALL POTABLE, REUSE AND IRRIGATION WATER TAPS, FIRE LINE SERVICES AND FIRE HYDRANT INSTALLATIONS SHALL BE PERFORMED BY A LICENSED MASTER PLUMBER OR UNDERGROUND UTILITY CONTRACTOR UNDER THE FOLLOWING CONDITIONS:

A) THE TAPS ARE TO BE SCHEDULED 48 HOURS IN ADVANCE WITH THE UTILITY INSPECTOR

B) TAPES REQUIRING METER INSTALLATION OF SIZE 2" AND BELOW MUST INCLUDE THE SERVICE PIPE, METER BOX, AND CORP. STOP SIZED READY TO ACCEPT THE METER INSTALLATION.

C) UTILITY FORCES WILL INSTALL THE METER UPON APPLICATION AND PAYMENT BY LICENSED MASTER OR UTILITY CONTRACTOR.

D) ALL TAPS REQUIRING METER INSTALLATIONS OF SIZE 3" AND ABOVE SHALL TERMINATE SIZED READY FOR VAULT, METER AND BYPASS INSTALLATION BY UTILITY FORCES PER REQUIRED SPECIAL ESTIMATE.

EROSION & SEDIMENT CONTROL NOTES:

1. THESE PLANS INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL-A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES.
2. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
3. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER CITY STANDARDS AND MEETING THE N.P.D.E.S. FINAL STABILIZATION REQUIREMENTS.
5. IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND EXCAVATION ACTIVITIES, THE CONTRACTOR SHALL PERFORM GROUNDWATER TESTING IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY FEDERAL REGISTER, PAGE 42739, PART 1A.3 TO DETERMINE PETROLEUM CONTAMINATION LEVELS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING N.P.D.E.S. PERMIT, IF REQUIRED, IN ORDER TO DISCHARGE ANY GROUNDWATER ENCOUNTERED DURING CONSTRUCTION AND DEWATERING OPERATIONS.
7. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.
8. THE CONTRACTOR SHALL WRAP STORM SEWER GRATES IN FILTER FABRIC TO PREVENT SEDIMENTATION OF THE STORM SEWER SYSTEM. CONTRACTOR SHALL MAINTAIN THE FILTER FABRIC UNTIL THE ASPHALT/CONCRETE PAVEMENT IS PLACED.
9. THE CONTRACTOR SHALL PROTECT ALL STORMWATER BASINS AND/OR SWALES FROM SEDIMENTATION DURING CONSTRUCTION USING NECESSARY SEDIMENT CONTROL BARRIERS.
10. IN THE EVENT OF DELAYS IN CONSTRUCTION, THE CONTRACTOR SHALL SEED ALL AREAS AND MAINTAIN EROSION CONTROL BARRIERS IN PLACE TO PREVENT EROSION, SILTATION AND AND INCREASE RUNOFF.

SUPPORTING NOTES:

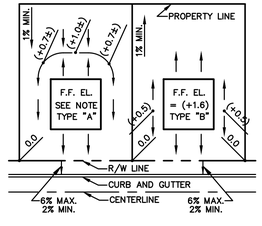
1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF COUNTY STANDARDS (LATEST REVISION) AND ALL CURRENT CITY STANDARD DETAILS AND THE REQUIREMENTS OF OTHER AUTHORITIES HAVING JURISDICTION. THE WORK SHALL ALSO BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE REPORT OF GEOTECHNICAL EXPLORATION BY UNIVERSAL ENGINEERING SCIENCES (EUS REPORT NUMBER 1850729, MARCH 23, 2021 AND REPORT NUMBER 1885314, JUNE 23, 2022).
2. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS FOR LAKE COUNTY, FLORIDA MAP NUMBER 12069C0485E DATED JANUARY 30, 2020.
3. ONSITE SURVEY ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY NATIONAL GEODETIC SURVEY, PROVIDED ALLEN & COMPANY PROVIDED VIA CADD FILE AND PDFS DATED 07/05/2021.
4. BOUNDARY INFORMATION AND LINEWORK PROVIDED BY ALLEN & COMPANY.

PAVING AND DRAINAGE LEGEND

EXISTING	PROPOSED	
25.5 / 10	25.5	SPOT ELEVATION
10	10	CONTOURS
S 45°34'23" E	S 45°34'23" E	BOUNDARY
		DRAINAGE DIVIDE
ST	ST	STORM SEWER AND SIZE
ST	ST	STORM SEWER INLET
ST	ST	STORM SEWER MANHOLE
ST	ST	MITERED END SECTION
		DRAINAGE FLOW ARROWS
		DITCH FLOW ARROWS
S-10	S-10	STRUCTURE NUMBERS
1.8 AC.±	1.8 AC.±	DRAINAGE AREA
A1	A1	SOIL BORING LOCATION
UD	UD	UNDERDRAIN
		CONCRETE SIDEWALK
		CONCRETE CURB AND GUTTER
		JURISDICTIONAL WETLANDS
X X	X X	SILT FENCE
		HAY BALES

WATER AND SEWER LEGEND

EXISTING	PROPOSED	
SAN 8"	SAN 8"	SANITARY SEWER LINE
SAN 8"	SAN 8"	SANITARY SEWER SERVICE
SAN 8"	SAN 8"	SANITARY SEWER MANHOLE
		CLEANOUT
FM 4"	FM 4"	FORCE MAIN
W 8"	W 8"	WATER MAIN
RW 8"	RW 8"	REUSE WATER MAIN
FP 8"	FP 8"	FIRE PROTECTION MAIN
W 8"	W 8"	FIRE HYDRANT
W 2"	W 2"	FLUSHING HYDRANT
W 8"	W 8"	GATE VALVE
W 8"	W 8"	REDUCER
W 8"	W 8"	TEE
W 8"	W 8"	BEND
M W 2"	M W 2"	WATER METER
W 8"	W 8"	BACKFLOW PREVENTER



TYPICAL PLAN VIEW - TYPE "A" AND "B" LOTS

NEIGHBORHOOD GRADING DETAIL

N.T.S.

NEIGHBORHOOD GRADING LEGEND

N.G.	NATURAL GRADE
25.1	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
25 / 10	EXISTING TOPOGRAPHY
61	LOT NUMBER
S 45°34'23" E	SUBDIVISION BOUNDARY
	DRAINAGE FLOW ARROWS
	DITCH FLOW ARROWS

NEIGHBORHOOD DRAINAGE & GRADING NOTES

1. F.F. EL. 'A' OR 'B' — FINISHED FLOOR ELEVATION AND APPROXIMATE BUILDING LOCATION AND LETTER DENOTES LOT TYPE GRADING
2. ALL PROPOSED LOT CORNERS SHALL BE AS FOLLOWS:
   A. BACK CORNER LOT ELEVATIONS ARE AT NATURAL GROUND UNLESS OTHERWISE NOTED OR WHERE FILLING IS REQUIRED TO OBTAIN 1% SLOPE.
3. "A OR B" — DENOTES STD. LOT TYPE GRADING. EXACT LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET (BY OTHERS)
4. 25.1 — PROPOSED GRADE AT LOT CORNERS
5. FINISHED FLOOR ELEVATIONS GIVEN ON PLAN ARE MINIMUM. EXACT ELEVATION SHALL BE DETERMINED WHEN THE SIZE AND

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LEGAL DESCRIPTION:

THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA;

AND

THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA;

AND

A TRIANGULAR TRACT OF LAND DESCRIBED AS:

BEGINNING AT THE NORTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, IN SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; RUN THENCE WEST APPROXIMATELY 330 FEET TO THE SOUTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN NORTH APPROXIMATELY 330 FEET TO THE NORTHEAST CORNER OF THE TWO AND ONE-HALF ACRE TRACT LAST DESCRIBED; THENCE SOUTHEAST TO THE POINT OF BEGINNING;

AND

THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, LESS THAT PART LYING WITHIN TAYLOR MEMORIAL CEMETERY HEREINAFTER PARTICULARLY DESCRIBED:

THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, LYING NORTH AND WEST OF STATE ROAD 19, NOW PAVED. LESS AND EXCEPT SUCH PORTION OF TAYLOR MEMORIAL CEMETERY INCLUDED THEREIN, WHICH CEMETERY IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE EAST 1/2 MILE CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; RUN WEST 1490 FEET TO AN IRON PIPE ON THE NORTH RIGHT-OF-WAY LINE OF SAID STATE ROAD NOW PAVED; THENCE SOUTHWESTERLY ALONG SAID RIGHT-OF-WAY LINE 446.5 FEET TO A CEMENT MARKER AND THE POINT OF BEGINNING OF CEMETERY PROPERTY; RUN THENCE SOUTHWESTERLY WITH THE NORTH RIGHT-OF-WAY LINE OF SAID ROAD 509.4 FEET; THENCE NORTH 36°27' WEST, 573.6 FEET; THENCE NORTH 51°33' EAST, 500 FEET; THENCE SOUTH 38°27' EAST, 500 FEET TO THE POINT OF BEGINNING;

AND

THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, LYING NORTH AND WEST OF STATE ROAD 19, NOW PAVED, LESS AND EXCEPT SUCH PART THEREOF AS IS CONTAINED IN THE PLAT OF PALM GARDENS AS RECORDED IN THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA ON FEBRUARY 26, 1951, IN PLAT BOOK 12, PAGE 11;

AND

THE WEST 1/2, LESS AND EXCEPT THE NORTH 3/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, IN SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA;

AND

THAT PART OF THE SOUTH 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4, LYING SOUTH OF COUNTY CLAY ROAD, IN SECTION 26, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA. SUBJECT TO THE RIGHTS-OF-WAY FOR ALL EXISTING STATE, COUNTY AND TOWN ROAD, STREETS AND HIGHWAYS;

AND

A TRACT OF LAND LOCATED IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, AND GENERALLY DESCRIBED AS LYING SOUTH OF THE RESIDENCE OF DON WHITE AND WEST OF THE WESTERLY BOUNDARY LINE OF PALM GARDENS SUBDIVISION;

AND

ALL OF BLOCK D-14, ACCORDING TO THE PLAT OF PALM GARDENS, FILED FEBRUARY 26, 1951, AND RECORDED IN PLAT BOOK 12, PAGE 11, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

ALL OF THE ABOVE LAKE COUNTY PROPERTY BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THAT PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHWEST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE RUN EAST ALONG THE NORTH LINE THEREOF TO THE NORTHEAST CORNER OF THE SAID SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN SOUTHEASTERLY ALONG A STRAIGHT LINE TO THE NORTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE RUN SOUTH ALONG EAST LINE THEREOF, TO THE SOUTHEAST CORNER OF THE SAID SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN WEST ALONG THE SOUTH LINE THEREOF TO THE SOUTHWEST CORNER OF THE SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN NORTH ALONG THE WEST LINE OF THE SAID NORTHWEST 1/4 OF THE NORTHEAST 1/4 TO THE POINT OF BEGINNING; LESS ALL RIGHTS-OF-WAY FOR STREETS IN HOWEY IN THE HILLS, FLORIDA.

ALL OF BLOCK D-14 IN PALM GARDENS, A SUBDIVISION IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 12, PAGE 11 OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

THE SOUTH 3/4 OF THE WEST 1/2; THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, LESS THE RIGHT-OF-WAY OF A COUNTY CLAY ROAD; AND THE SOUTH 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA.

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 AND THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 LYING NORTH AND WEST OF THE WESTERLY LINE OF THE RIGHT-OF-WAY OF STATE ROAD NO. 19, IN SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA; LESS AND EXCEPT THEREFROM THAT PART THEREOF LYING WITHIN TAYLOR MEMORIAL CEMETERY, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 12, PAGE 5, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, AND ALSO LESS ALL RIGHTS-OF-WAY FOR STREETS IN HOWEY IN THE HILLS, FLORIDA.

THAT PART OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, IN THE TOWN OF HOWEY IN THE HILLS, FLORIDA, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHWEST CORNER OF LOT 1, IN BLOCK D-14, IN PALM GARDENS, ACCORDING TO THE PLAT THEREOF RECORDED IN BOOK 12, PAGE 11, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA; THENCE RUN WEST TO THE WEST LINE OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE SAID SECTION 35; THENCE RUN SOUTH ALONG THE WEST LINE OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF THE SAID SECTION 35 TO A POINT ON THE NORTHWESTERLY LINE OF THE RIGHT-OF-WAY OF STATE ROAD NO. 19; THENCE RUN NORTHEASTERLY ALONG THE NORTHWESTERLY LINE OF THE SAID RIGHT-OF-WAY LINE OF BLOCK D-14, OF THE SAID PALM GARDENS SUBDIVISION; THENCE RUN NORTHWESTERLY ALONG THE WESTERLY LINE OF THE SAID BLOCK D-14, TO THE POINT OF BEGINNING; LESS ALL RIGHTS-OF-WAY FOR STREETS IN HOWEY IN THE HILLS, FLORIDA,

THAT PART OF THE SOUTH 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 26, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, LYING SOUTH OF THE SOUTHERLY LINE OF THE RIGHT-OF-WAY OF THE COUNTY ROAD.

LESS THE FOLLOWING DESCRIBED PARCEL:

COMMENCE AT THE EAST 1/4 CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; THENCE RUN NORTH 89°21'35" WEST ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, 1487.79 FEET TO A POINT ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19; THENCE RUN SOUTH 52°07'27" WEST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 459.23 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE AND SAID NORTHWESTERLY RIGHT-OF-WAY LINE HAVING A CENTRAL ANGLE OF 14°03'56", A RADIUS OF 2341.83 FEET, AN ARC LENGTH OF 596.69 FEET, A CHORD BEARING OF SOUTH 44°49'31" WEST AND A CHORD DISTANCE OF 595.08 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE BEING A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE HAVING A CENTRAL ANGLE OF 22°58'29", A RADIUS OF 2341.83 FEET, AN ARC LENGTH OF 939.04 FEET, A CHORD BEARING OF SOUTH 26°02'16" WEST AND A CHORD DISTANCE OF 932.76 FEET; THENCE RUN NORTH 75°26'58" WEST, 402.66 FEET; THENCE RUN SOUTH 68°12'24" WEST, 668.73 FEET; THENCE RUN NORTH 53°42'00" WEST, 250.16 FEET; THENCE RUN NORTH 12°38'17" EAST, 257.60 FEET; THENCE RUN NORTH 77°21'43" WEST, 125.00 FEET; THENCE RUN NORTH 12°38'17" EAST, 13.01 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE EASTERLY; THENCE RUN NORTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 39°28'41", A RADIUS OF 75.00 FEET, AN ARC LENGTH OF 51.68 FEET, A CHORD BEARING OF NORTH 32°22'27" EAST AND A CHORD DISTANCE OF 50.66 FEET TO THE POINT OF TANGENCY; THENCE RUN NORTH 52°06'58" EAST, 476.63 FEET; THENCE RUN NORTH 54°47'17" EAST, 150.16 FEET; THENCE RUN NORTH 52°06'58" EAST, 205.75 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHERLY; THENCE RUN EASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 62°53'19", A RADIUS OF 24.99 FEET, AN ARC LENGTH OF 27.43 FEET, A CHORD BEARING OF NORTH 83°33'05" EAST AND A CHORD DISTANCE OF 26.08 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHWESTERLY; THENCE RUN NORTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 125°45'33", A RADIUS OF 99.99 FEET, AN ARC LENGTH OF 219.47 FEET, A CHORD BEARING OF NORTH 52°06'58" EAST AND A CHORD DISTANCE OF 178.00 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN NORTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 62°53'19", A RADIUS OF 24.99 FEET, AN ARC LENGTH OF 27.43 FEET, A CHORD BEARING OF NORTH 20°40'51" EAST AND A CHORD DISTANCE OF 26.08 FEET TO THE POINT OF TANGENCY; THENCE RUN NORTH 52°06'58" EAST, 560.98 FEET TO A POINT ON THE NORTHWESTERLY EXTENSION OF THE SOUTHWESTERLY LINE OF TAYLOR MEMORIAL CEMETERY; THENCE RUN SOUTH 37°58'58" EAST ALONG SAID NORTHWESTERLY EXTENSION LINE, 613.80 FEET TO THE POINT OF BEGINNING.

ALSO LESS THE FOLLOWING DESCRIBED PARCEL:

COMMENCE AT THE EAST 1/4 CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; THENCE RUN NORTH 89°21'35" WEST ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, 1487.79 FEET TO A POINT ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19; THENCE RUN SOUTH 52°07'27" WEST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 392.98 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 52°07'27" WEST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 66.25 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 02°12'24", A RADIUS OF 2341.83 FEET, AN ARC LENGTH OF 90.19 FEET, A CHORD BEARING OF SOUTH 51°01'15" WEST AND A CHORD DISTANCE OF 90.19 FEET TO THE MOST EASTERLY CORNER OF TAYLOR MEMORIAL CEMETERY; THENCE RUN NORTH 38°00'31" WEST, ALONG THE NORTHEASTERLY LINE OF SAID TAYLOR MEMORIAL CEMETERY, 547.00 FEET; THENCE RUN NORTH 52°08'58" EAST, 484.34 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHERLY; THENCE RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 90°00'00", A RADIUS OF 10.00 FEET, AN ARC LENGTH OF 15.71 FEET, A CHORD BEARING OF SOUTH 82°53'02" EAST AND A CHORD DISTANCE OF 14.14 FEET TO THE POINT OF TANGENCY; THENCE RUN SOUTH 37°53'02" EAST, 525.33 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHWESTERLY; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE HAVING A CENTRAL ANGLE OF 90°00'00", A RADIUS OF 10.00 FEET, AN ARC LENGTH OF 15.71 FEET, A CHORD BEARING OF SOUTH 07°07'12" WEST AND A CHORD DISTANCE OF 14.14 FEET TO THE POINT OF BEGINNING.

AND, ALSO LESS THE FOLLOWING DESCRIBED PARCEL:

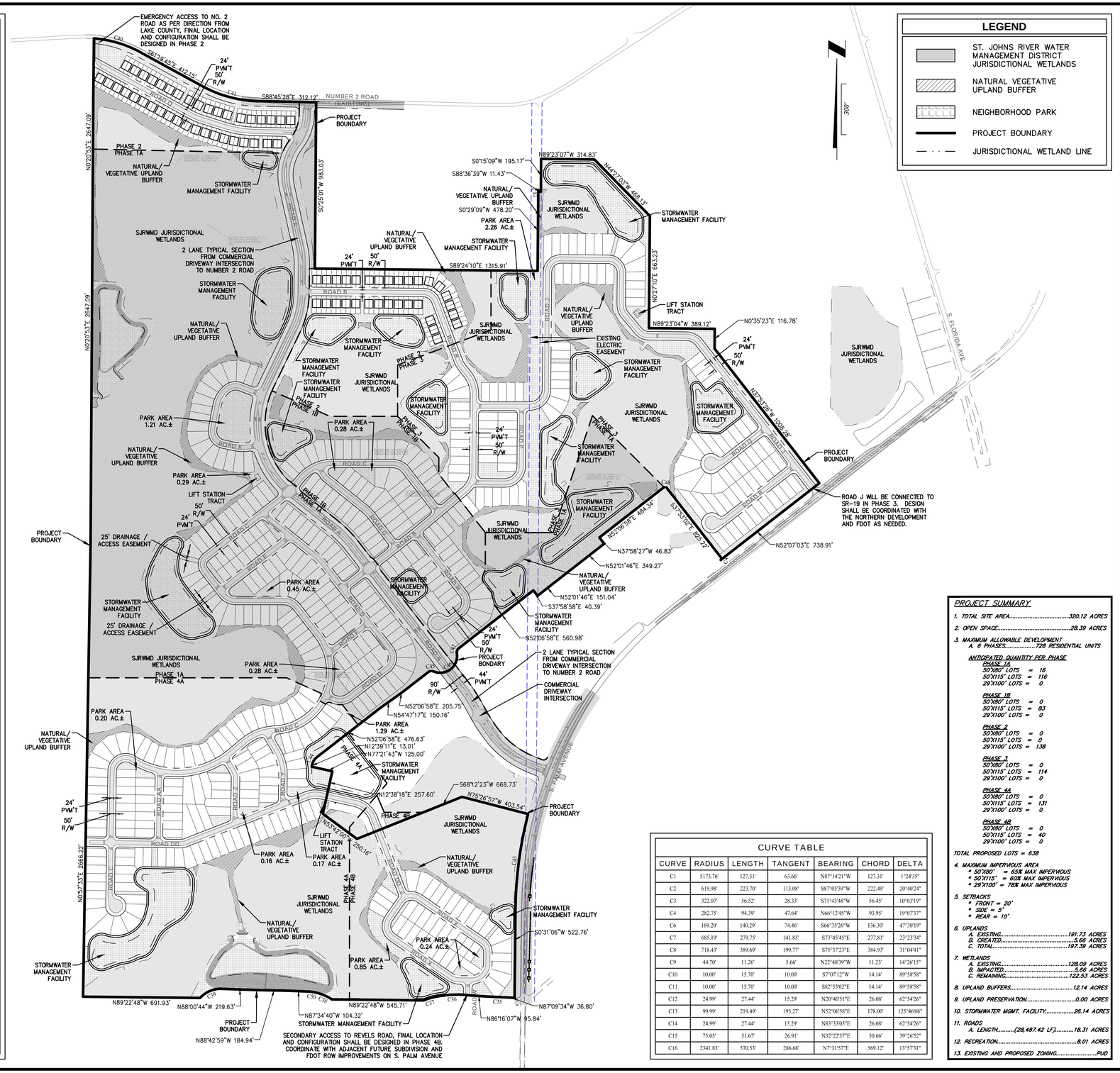
COMMENCE AT THE EAST 1/4 CORNER OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA; THENCE RUN NORTH 89°21'35" WEST ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, 1487.79 FEET TO A POINT ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19 THENCE RUN NORTH 52°07'27" EAST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 673.75 FEET TO THE POINT OF BEGINNING; THENCE RUN NORTH 37°53'02" WEST, 1008.88 FEET; THENCE RUN NORTH 00°35'47" EAST, 116.78 FEET TO A POINT ON THE NORTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 35; THENCE RUN SOUTH 89°24'13" EAST ALONG SAID NORTH LINE, 270.08 FEET TO A POINT ON THE WEST LINE OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE RUN NORTH 00°35'58" EAST ALONG SAID WEST LINE, 256.12 FEET TO A POINT ON THE SOUTH LINE OF THE RESIDENCE OF DON WHITE; THENCE RUN SOUTH 89°24'13" EAST ALONG SAID SOUTH LINE, 418.17 FEET; THENCE RUN SOUTH 00°35'47" WEST, 709.10 FEET; THENCE RUN SOUTH 37°52'33" EAST, 317.47 FEET TO A POINT ON SAID NORTHWESTERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 19; THENCE RUN SOUTH 52°07'27" WEST ALONG SAID NORTHWESTERLY RIGHT-OF-WAY LINE, 329.54 FEET TO THE POINT OF BEGINNING.

ALSO, LESS AND EXCEPT THE FOLLOWING DESCRIBED PARCEL:

THAT PARCEL DESCRIBED AS THE TAYLOR MEMORIAL CEMETERY IN THAT QUITCLAIM DEED RECORDED IN OFFICIAL RECORDS BOOK 1147, PAGE 1398, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

PARCEL 2 (EASEMENT ESTATE):

TOGETHER WITH THOSE APPURTENANT EASEMENTS AS SET FORTH AND GRANTED BY EAGLES LANDING AT OCOEE, INC., A FLORIDA CORPORATION, TO HOWEY IN THE HILLS, A FLORIDA LIMITED PARTNERSHIP, IN THAT DEVELOPMENT AGREEMENT AND GRANT OF EASEMENTS, RECORDED NOVEMBER 10, 2005 IN OFFICIAL RECORDS BOOK 3003, PAGE 1377, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.


EMERGENCY ACCESS TO NO. 2 ROAD AS PER DIRECTION FROM LAKE COUNTY, FINAL LOCATION AND CONFIGURATION SHALL BE DESIGNED IN PHASE 2
NUMBER 2 ROAD (EXISTING)
PROJECT BOUNDARY
PHASE 2 PHASE 1A
NATURAL/ VEGETATIVE UPLAND BUFFER
STORMWATER MANAGEMENT FACILITY
SJRWMD JURISDICTIONAL WETLANDS
2 LANE TYPICAL SECTION FROM COMMERCIAL DRIVEWAY INTERSECTION TO NUMBER 2 ROAD
PARK AREA 2.26 AC.±
LIFT STATION TRACT
EXISTING ELECTRIC EASEMENT
PARK AREA 1.21 AC.±
PARK AREA 0.28 AC.±
PARK AREA 0.29 AC.±
PARK AREA 0.45 AC.±
PARK AREA 0.20 AC.±
PARK AREA 0.28 AC.±
PARK AREA 0.16 AC.±
PARK AREA 0.17 AC.±
PARK AREA 0.24 AC.±
PARK AREA 0.85 AC.±
PARK AREA 1.29 AC.±
25' DRAINAGE / ACCESS EASEMENT
PROJECT BOUNDARY
ROAD J WILL BE CONNECTED TO SR-19 IN PHASE 3. DESIGN SHALL BE COORDINATED WITH THE NORTHERN DEVELOPMENT AND FDOT AS NEEDED.
2 LANE TYPICAL SECTION FROM COMMERCIAL DRIVEWAY INTERSECTION TO NUMBER 2 ROAD
COMMERCIAL DRIVEWAY INTERSECTION
S. FLORIDA AVE
SECONDARY ACCESS TO REVELS ROAD, FINAL LOCATION AND CONFIGURATION SHALL BE DESIGNED IN PHASE 4B. COORDINATE WITH ADJACENT FUTURE SUBDIVISION AND FDOT ROW IMPROVEMENTS ON S. PALM AVENUE
N0°25'01"W 983.03'
N0°25'53"E 2647.09'
N0°25'53"E 2647.09'
N0°25'53"E 2686.22'
N89°22'48"W 691.93'
N88°00'44"W 219.63'
N88°42'59"W 184.94'
N87°34'40"W 104.32'
N89°22'48"W 545.71'
N86°16'07"W 95.84'
N87°09'34"W 36.80'
N89°23'07"W 314.83'
N44°27'03"W 468.13'
S0°15'09"W 195.17'
S88°36'39"W 11.43'
S0°29'09"W 478.20'
S89°24'10"E 1315.91'
N0°27'10"E 663.23'
N89°23'04"W 389.12'
N0°35'23"E 116.78'
N37°53'02"W 1008.88'
N52°06'58"E 560.98'
N52°06'58"E 205.75'
N54°47'17"E 150.16'
N52°06'58"E 476.63'
N12°39'11"E 13.01'
N77°21'43"W 125.00'
N12°38'18"E 257.60'
S68°12'23"W 668.73'
N75°26'57"W 403.54'
N53°42'00"W 250.16'
S37°53'02"E 1025.22'
N52°01'46"E 349.27'
N52°01'46"E 151.04'
S37°58'58"E 40.39'
N37°58'27"W 46.83'
N52°06'58"E 560.98'
N52°07'03"E 738.91'
N52°06'58"E 205.75'
N54°47'17"E 150.16'
N52°06'58"E 476.63'
N12°39'11"E 13.01'
N77°21'43"W 125.00'
N12°38'18"E 257.60'
S68°12'23"W 668.73'
N75°26'57"W 403.54'
N53°42'00"W 250.16'
S37°53'02"E 1025.22'
N52°01'46"E 349.27'
N52°01'46"E 151.04'
S37°58'58"E 40.39'
N37°58'27"W 46.83'
N52°06'58"E 560.98'
N52°07'03"E 738.91'
N37°53'02"W 1008.88'
N0°35'23"E 116.78'
N89°23'04"W 389.12'
S89°24'10"E 1315.91'
S0°29'09"W 478.20'
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S88°36'39"W 11.43'
N89°23'07"W 314.83'
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N0°27'10"E 663.23'
S0°25'01"W 983.03'
N0°25'53"E 2647.09'
N0°25'53"E 2686.22'
N89°22'48"W 691.93'
N88°00'44"W 219.63'
N88°42'59"W 184.94'
N87°34'40"W 104.32'
N89°22'48"W 545.71'
N86°16'07"W 95.84'
N87°09'34"W 36.80'
S37°53'02"E 1025.22'
S37°58'58"E 40.39'
N37°58'27"W 46.83'
N52°01'46"E 349.27'
N52°01'46"E 151.04

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CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C19	350.00'	339.52'	184.46'	N59°25'19"E	326.36'	55°34'49"
C20	300.00'	54.87'	27.51'	S81°58'20"W	54.79'	10°28'45"
C22	300.00'	193.36'	100.17'	S68°44'52"W	190.03'	36°55'43"

HATCHED AREA IS PHASE 1A CONSTRUCTION ALL SHOWN FOR INFORMATIONAL PURPOSES ONLY

PHASE 1A
PHASE 4

MARSH RIDGE PARKWAY

5' CONCRETE SIDEWALK (TYP.)
MIAMI CURB AND GUTTER (TYP.)
10' UTILITY ESM'T (TYP.)
PED. SIGN (W11-2 AND W16-9P)
SPECIAL EMPHASIS CROSSWALK (TYP.)
℄ INTERSECTION Road C STA. 45+16.83 Road Y STA. 14+60.48
PED. SIGN (W11-2 AND W16-7P, TYP.)
PRC. STA. 44+61.96
C19
C20
C22 (OVERALL)
TRACT Q (PARK SPACE, DRAINAGE)
STD. STOP SIGN (R1-1) AND STREET SIGN (D-3) COMBO (TYP.)
24" WHITE STOP BAR (TYP.)
PT. STA. 13+33.40
R25' (TYP.)
R26' (TYP.)
CURB RAMP W/ DETECTABLE WARNING (TYP., BOTH SIDES, FDOT INDEX 520, CR-E)
NORTH 10 W 127.08'
12" WHITE CROSSWALK (TYP.)
TRACT R (OPEN SPACE)
R540'
R25'
STA: 24+48.19 OFF: 348.61'L
STA: 24+83.23 OFF: 354.10'L
STA: 24+09.93 OFF: 256.06'L
NORMAL WATER LEVEL
TOP OF BANK

NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

PHASE 2-4 OPEN SPACE TRACT TABLE		
TRACT LETTER	TRACT USE	TRACT ACREAGE
A	OPEN SPACE	1.08 Ac.
B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
D	OPEN SPACE, DRAINAGE	3.38 Ac.
E	OPEN SPACE, DRAINAGE	0.34 Ac.
F	OPEN SPACE, DRAINAGE	2.00 Ac.
G	OPEN SPACE	0.05 Ac.
H	OPEN SPACE	0.047 Ac.
I	OPEN SPACE, PARK	0.07 Ac.
J	OPEN SPACE, PARK	0.33 Ac.
K	OPEN SPACE, DRAINAGE	4.71 Ac.
L	PARK SPACE, DRAINAGE	2.90 Ac.
M	OPEN SPACE, DRAINAGE, PUMP STATION	4.90 Ac.
N	OPEN SPACE, DRAINAGE	0.88 Ac.
O	OPEN SPACE, DRAINAGE	1.88 Ac.
P	OPEN SPACE, DRAINAGE	0.89 Ac.
Q	PARK SPACE, DRAINAGE	1.36 Ac.
R	OPEN SPACE	0.08 Ac.
S	OPEN SPACE	0.05 Ac.
T	OPEN SPACE	0.35 Ac.
U	OPEN SPACE	0.28 Ac.
V	PARK SPACE, DRAINAGE	1.86 Ac.
W	OPEN SPACE	0.08 Ac.
X	OPEN SPACE	0.18 Ac.
Y	OPEN SPACE, DRAINAGE, PARK	0.96 Ac.
Z	PARK SPACE	0.10 Ac.
AA	PARK SPACE	0.13 Ac.
BB	PARK SPACE	0.15 Ac.
CC	OPEN SPACE	0.06 Ac.
DD	OPEN SPACE	0.09 Ac.
EE	OPEN SPACE	0.02 Ac.
FF	PARK SPACE	0.20 Ac.
II	OPEN SPACE	0.14 Ac.
JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

KEYMAP

40

CW PRIME
CONNELLY & WICKER, LLC
8060 SUNNERLAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3068 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079
Designed: JEW | Drawn: DCG
Checked: JEW | O.C.: RCW
Date: APR 2025
Scale: 1" = 40'

Sheet 4B

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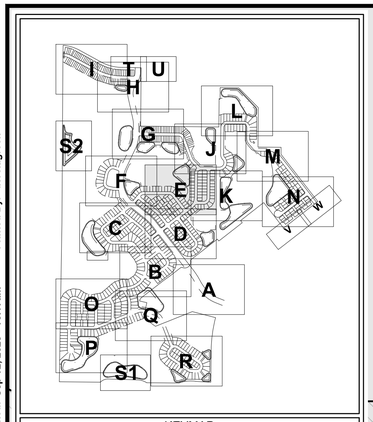

KEYMAP

NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

PHASE 2-4 OPEN SPACE TRACT TABLE

TRACT LETTER	TRACT USE	TRACT ACREAGE
A	OPEN SPACE	1.08 Ac.
B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
D	OPEN SPACE, DRAINAGE	3.38 Ac.
E	OPEN SPACE, DRAINAGE	0.34 Ac.
F	OPEN SPACE, DRAINAGE	2.00 Ac.
G	OPEN SPACE	0.05 Ac.
H	OPEN SPACE	0.047 Ac.
I	OPEN SPACE, PARK	0.07 Ac.
J	OPEN SPACE, PARK	0.33 Ac.
K	OPEN SPACE, DRAINAGE	4.71 Ac.
L	PARK SPACE, DRAINAGE	2.90 Ac.
M	OPEN SPACE, DRAINAGE, PUMP STATION	4.90 Ac.
N	OPEN SPACE, DRAINAGE	0.88 Ac.
O	OPEN SPACE, DRAINAGE	1.88 Ac.
P	OPEN SPACE, DRAINAGE	0.89 Ac.
Q	PARK SPACE, DRAINAGE	1.36 Ac.
R	OPEN SPACE	0.08 Ac.
S	OPEN SPACE	0.05 Ac.
T	OPEN SPACE	0.35 Ac.
U	OPEN SPACE	0.28 Ac.
V	PARK SPACE, DRAINAGE	1.86 Ac.
W	OPEN SPACE	0.08 Ac.
X	OPEN SPACE	0.18 Ac.
Y	OPEN SPACE, DRAINAGE, PARK	0.96 Ac.
Z	PARK SPACE	0.10 Ac.
AA	PARK SPACE	0.13 Ac.
BB	PARK SPACE	0.15 Ac.
CC	OPEN SPACE	0.06 Ac.
DD	OPEN SPACE	0.09 Ac.
EE	OPEN SPACE	0.02 Ac.
FF	PARK SPACE	0.20 Ac.
II	OPEN SPACE	0.14 Ac.
JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C7	150.00'	61.48'	31.18'	N38°06'27"E	61.05'	23°29'07"
C8	150.00'	67.75'	34.46'	N13°25'32"E	67.18'	25°52'43"
C9	150.00'	129.23'	68.94'	N25°10'05"E	125.27'	49°21'50"
C10	100.00'	157.08'	100.00'	N45°29'10"E	141.42'	90°00'00"

SJRWMD JURISDICTIONAL WETLANDS

PHASE 2
PHASE 1B

PHASE 3
PHASE 1B

HATCHED AREA IS PHASE 1B CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

HATCHED AREA IS PHASE 1B CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

TOP OF BANK
NORMAL WATER LEVEL
R370'
R30'
R25'
R85'
R35'
R40'
STA: 22+49.92 OFF:170.00'R
STA: 22+69.07 OFF:176.91'R
STA: 22+30.44 OFF:191.42'R
STA: 22+43.03 OFF:170.00'R
STA: 22+27.82 OFF:243.03'R
STA: 22+27.63 OFF:250.47'R
STA: 22+27.39 OFF:309.48'R
STA: 22+27.80 OFF:323.70'R
STA: 22+29.17 OFF:347.55'R
STA: 24+28.01 OFF:364.66'L
STA: 24+03.85 OFF:334.30'L
STA: 24+01.67 OFF:331.45'L
STA: 23+70.32 OFF:288.46'L
STA: 23+67.88 OFF:285.44'L
STA: 23+31.42 OFF:244.45'L
STA: 23+30.78 OFF:243.75'L
STA: 23+36.41 OFF:187.91'L
STA: 23+17.92 OFF:229.96'L

SMF-07 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE (STATION AND OFFSET LABELS REFERENCE ROAD N)

5' CONCRETE SIDEWALK (TYP.)
MIAMI CURB AND GUTTER (TYP.)
PT. STA. 24+20.44
TRACT F (OPEN SPACE, DRAINAGE)
℄ INTERSECTION Road B STA. 24+42.72 Road J STA. 10+00.00 Road N STA. 24+85.57
RIVULET DRIVE
65'
L77'
N02°43'10"E 653.30'
5' CONCRETE SIDEWALK (TYP.)
MIAMI CURB AND GUTTER (TYP.)
50' R/W
24' PVM'T
10' UTILITY ESM'T (TYP.)
10' UTILITY ESM'T (TYP.)
PT. STA. 20+54.94
℄ INTERSECTION Road B STA. 19+87.19 Road P STA. 10+00.00
C8 (DRIVEWAY)
C7
S40°51'00"W 55.43'
PC. STA. 19+25.71
TRACT I (OPEN SPACE, PARK)

386 387 388 389 390
CURB RAMP W/ DETECTABLE WARNING (TYP., BOTH SIDES, FDOT INDEX 520, CR-E)
12" WHITE CROSSWALK (TYP.)
STD. STOP SIGN (R1-1) AND STREET SIGN (D-3) COMBO (TYP.)
24" WHITE STOP BAR (TYP.)
℄ INTERSECTION Road J STA. 12+80.01 Road P STA. 17+07.74
PC. STA. 13+26.26
40'
280.01' N90°00'00"E 326.26' (OVERALL) 46.25'
ROAD J
R25' (TYP.)
R26' (TYP.)
TRACT G (OPEN SPACE)
CURB RAMP W/ DETECTABLE WARNING (TYP., BOTH SIDES, FDOT INDEX 520, CR-E)
12" WHITE CROSSWALK (TYP.)
385 379 384 378 383 377 382 376 381 375 380 374 373
MIAMI CURB AND GUTTER (TYP.)
5' CONCRETE SIDEWALK (TYP.)
10' UTILITY ESM'T (TYP.)
50' R/W
24' PVM'T
ROAD P
N02°31'01"E 355.62'
TRACT J (OPEN SPACE, PARK)
CURB RAMP W/ DETECTABLE WARNING (TYP., BOTH SIDES, FDOT INDEX 520, CR-E)
12" WHITE CROSSWALK (TYP.)
STD. STOP SIGN (R1-1) AND STREET SIGN (D-3) COMBO (TYP.)
24" WHITE STOP BAR (TYP.)
PT. STA. 13+52.12
PC. STA. 11+95.04
C10
S89°30'50"E 195.04'
R25' (TYP.)
R26' (TYP.)
367 368 369 370 371 372 366

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1	04/25	PER CITY COMMENTS	DCG

SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.: 24-01-0079
Designed: JEW
Drawn: DCG
Checked: JEW
Q.C.: RCW
Date: APR 2025
Scale: 1" = 40'
Sheet 4E

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PHASE 2-4 OPEN SPACE TRACT TABLE		
TRACT LETTER	TRACT USE	TRACT ACREAGE
A	OPEN SPACE	1.08 Ac.
B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
D	OPEN SPACE, DRAINAGE	3.38 Ac.
E	OPEN SPACE, DRAINAGE	0.34 Ac.
F	OPEN SPACE, DRAINAGE	2.00 Ac.
G	OPEN SPACE	0.05 Ac.
H	OPEN SPACE	0.047 Ac.
I	OPEN SPACE, PARK	0.07 Ac.
J	OPEN SPACE, PARK	0.33 Ac.
K	OPEN SPACE, DRAINAGE	4.71 Ac.
L	PARK SPACE, DRAINAGE	2.90 Ac.
M	OPEN SPACE, DRAINAGE, PUMP STATION	4.90 Ac.
N	OPEN SPACE, DRAINAGE	0.88 Ac.
O	OPEN SPACE, DRAINAGE	1.88 Ac.
P	OPEN SPACE, DRAINAGE	0.89 Ac.
Q	PARK SPACE, DRAINAGE	1.36 Ac.
R	OPEN SPACE	0.08 Ac.
S	OPEN SPACE	0.05 Ac.
T	OPEN SPACE	0.35 Ac.
U	OPEN SPACE	0.28 Ac.
V	PARK SPACE, DRAINAGE	1.86 Ac.
W	OPEN SPACE	0.08 Ac.
X	OPEN SPACE	0.18 Ac.
Y	OPEN SPACE, DRAINAGE, PARK	0.96 Ac.
Z	PARK SPACE	0.10 Ac.
AA	PARK SPACE	0.13 Ac.
BB	PARK SPACE	0.15 Ac.
CC	OPEN SPACE	0.06 Ac.
DD	OPEN SPACE	0.09 Ac.
EE	OPEN SPACE	0.02 Ac.
FF	PARK SPACE	0.20 Ac.
II	OPEN SPACE	0.14 Ac.
JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C4	80.00'	96.02'	54.75'	N55°01'05"W	90.36'	68°46'10"

NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

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CURB RAMP W/ DETECTABLE WARNING (TYP., BOTH SIDES, FDOT INDEX 520, CR-E)
12" WHITE CROSSWALK (TYP.)
STD. STOP SIGN (R1-1) AND STREET SIGN (D-3) COMBO (TYP.)
5' CONCRETE SIDEWALK (TYP.)
MIAMI CURB AND GUTTER (TYP.)
TRACT C (OPEN SPACE)
10' UTILITY ESM'T (TYP.)
50' R/W
24' PVMT
N89°24'10"W 674.43'
ROAD N
24" WHITE STOP BAR (TYP.)
P.C. STA. 17+19.43
R25' (TYP.)
R26' (TYP.)
TOP OF BANK
NORMAL WATER LEVEL
STA:10+95.64 OFF:155.00'R
R45'
R580'
SMF-09 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE (STATION AND OFFSET LABELS REFERENCE ROAD N)
STA:12+72.61 OFF:155.00'R
R25'
STA:12+86.45 OFF:200.82'R
R40'
STA:12+79.45 OFF:206.14'R
STA:12+44.99 OFF:238.49'R
R85'
STA:12+42.56 OFF:240.68'R
STA:12+20.74 OFF:259.65'R
R85'
STA:12+12.85 OFF:265.73'R
STA:11+81.69 OFF:286.96'R
R35'
STA:11+51.32 OFF:294.22'R
TRACT D (OPEN SPACE, DRAINAGE)
SJRWMD JURISDICTIONAL WETLANDS
STA:14+74.90 OFF:155.00'R
R25'
STA:14+56.65 OFF:197.08'R
STA:14+87.01 OFF:229.51'R
R85'
STA:14+90.76 OFF:233.28'R
STA:16+37.32 OFF:155.00'R
R45'
SMF-10 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE (STATION AND OFFSET LABELS REFERENCE ROAD N)
STA:18+97.57 OFF:155.00'R
STA:15+15.45 OFF:256.56'R
R85'
STA:15+33.01 OFF:269.30'R
STA:15+53.40 OFF:280.45'R
R85'
STA:15+72.31 OFF:287.99'R
STA:19+61.40 OFF:155.00'R
STA:19+78.26 OFF:262.03'R
R85'
STA:19+84.50 OFF:252.12'R
R45'
STA:20+01.05 OFF:221.28'R
10' UTILITY ESM'T (TYP.)
PHASE 2
PHASE 3

KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-286-0031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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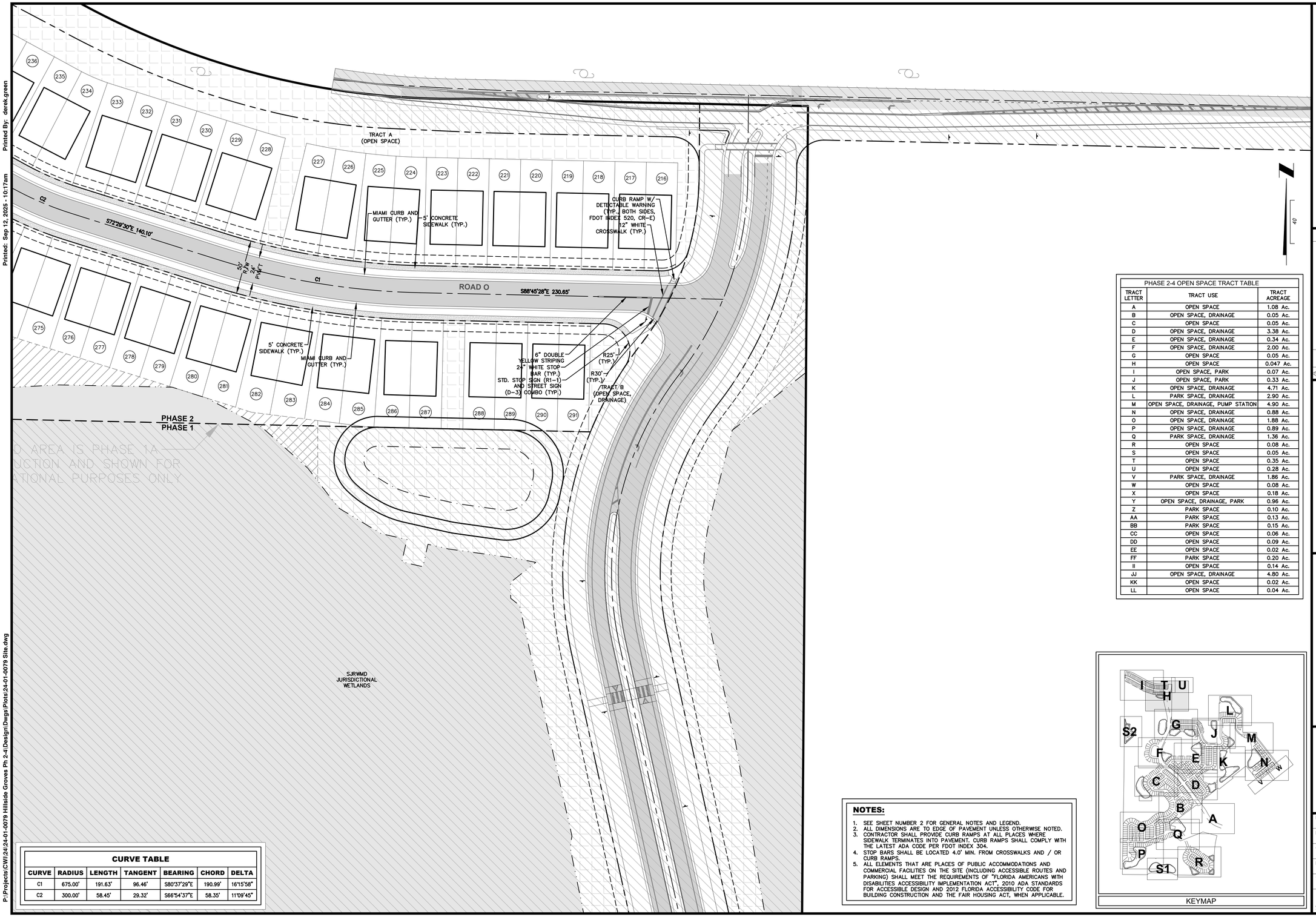
Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	4G



PHASE 2-4 OPEN SPACE TRACT TABLE		
TRACT LETTER	TRACT USE	TRACT ACREAGE
A	OPEN SPACE	1.08 Ac.
B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
D	OPEN SPACE, DRAINAGE	3.38 Ac.
E	OPEN SPACE, DRAINAGE	0.34 Ac.
F	OPEN SPACE, DRAINAGE	2.00 Ac.
G	OPEN SPACE	0.05 Ac.
H	OPEN SPACE	0.047 Ac.
I	OPEN SPACE, PARK	0.07 Ac.
J	OPEN SPACE, PARK	0.33 Ac.
K	OPEN SPACE, DRAINAGE	4.71 Ac.
L	PARK SPACE, DRAINAGE	2.90 Ac.
M	OPEN SPACE, DRAINAGE, PUMP STATION	4.90 Ac.
N	OPEN SPACE, DRAINAGE	0.88 Ac.
O	OPEN SPACE, DRAINAGE	1.88 Ac.
P	OPEN SPACE, DRAINAGE	0.89 Ac.
Q	PARK SPACE, DRAINAGE	1.36 Ac.
R	OPEN SPACE	0.08 Ac.
S	OPEN SPACE	0.05 Ac.
T	OPEN SPACE	0.35 Ac.
U	OPEN SPACE	0.28 Ac.
V	PARK SPACE, DRAINAGE	1.86 Ac.
W	OPEN SPACE	0.08 Ac.
X	OPEN SPACE	0.18 Ac.
Y	OPEN SPACE, DRAINAGE, PARK	0.96 Ac.
Z	PARK SPACE	0.10 Ac.
AA	PARK SPACE	0.13 Ac.
BB	PARK SPACE	0.15 Ac.
CC	OPEN SPACE	0.06 Ac.
DD	OPEN SPACE	0.09 Ac.
EE	OPEN SPACE	0.02 Ac.
FF	PARK SPACE	0.20 Ac.
II	OPEN SPACE	0.14 Ac.
JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C1	675.00'	191.63'	96.46'	S80°37'29"E	190.99'	16°15'58"
C2	300.00'	58.45'	29.32'	S66°54'37"E	58.35'	11°09'45"

NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	JEW
Date:	APR 2025
Scale:	1" = 40'
Sheet	4H

Printed: Sep 12, 2025 - 10:17am Printed By: derek.green

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CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
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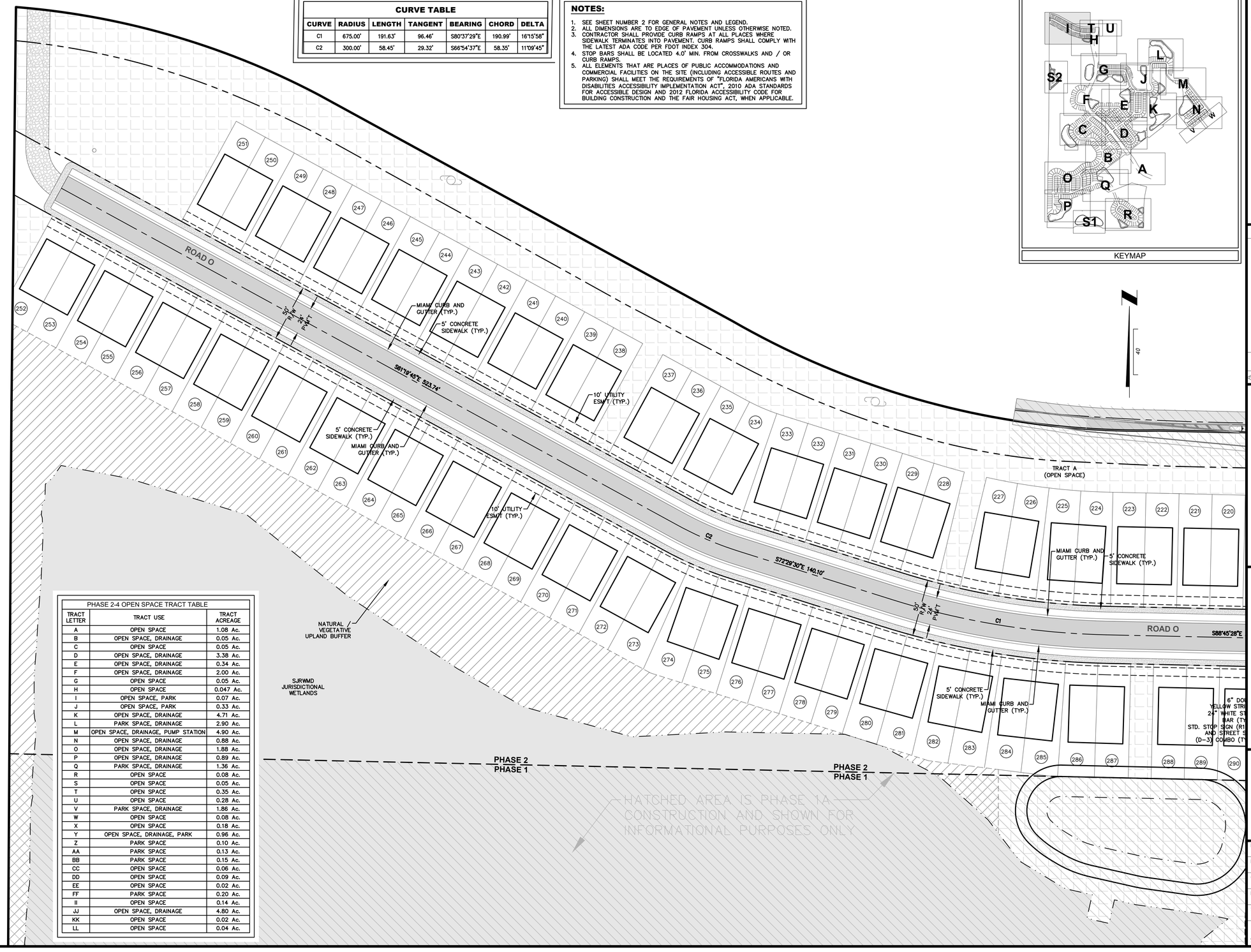
KEYMAP



PHASE 2-4 OPEN SPACE TRACT TABLE		
TRACT LETTER	TRACT USE	TRACT ACREAGE
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B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
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JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	4I

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C4	80.00'	96.02'	54.75'	N55°01'05"W	90.36'	68°46'10"
C5	200.00'	66.48'	33.55'	S30°09'20"E	66.17'	19°02'39"
C11	100.00'	156.29'	99.21'	N45°13'35"E	140.86'	89°32'50"
C12	80.00'	125.66'	80.00'	S45°27'10"W	113.14'	90°00'00"

PHASE 2-4 OPEN SPACE TRACT TABLE		
TRACT LETTER	TRACT USE	TRACT ACREAGE
A	OPEN SPACE	1.08 Ac.
B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
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L	PARK SPACE, DRAINAGE	2.90 Ac.
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JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
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KEYMAP

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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	4J

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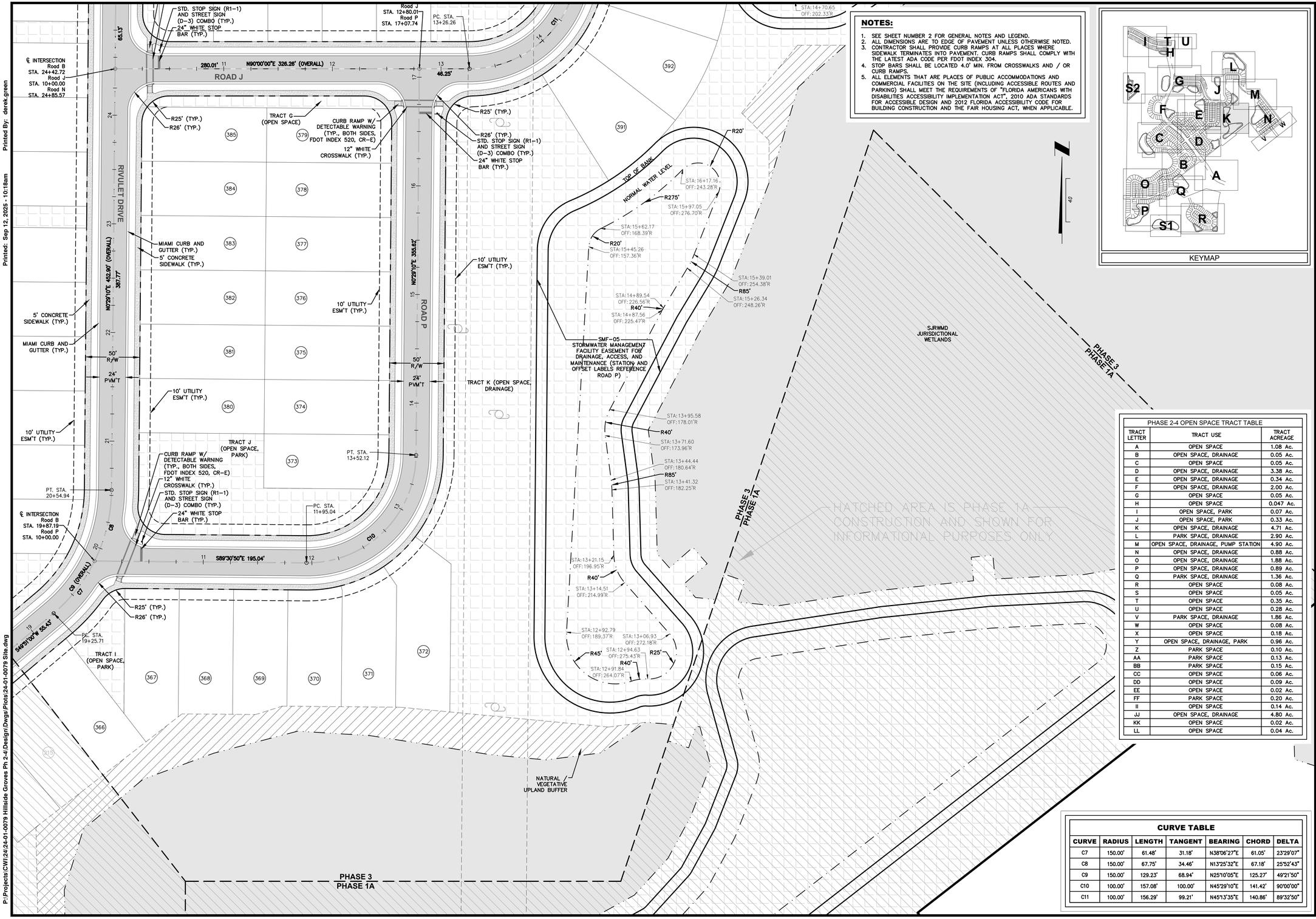

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KEYMAP

PHASE 2-4 OPEN SPACE TRACT TABLE

TRACT LETTER	TRACT USE	TRACT ACREAGE
A	OPEN SPACE	1.08 Ac.
B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
D	OPEN SPACE, DRAINAGE	3.38 Ac.
E	OPEN SPACE, DRAINAGE	0.34 Ac.
F	OPEN SPACE, DRAINAGE	2.00 Ac.
G	OPEN SPACE	0.05 Ac.
H	OPEN SPACE	0.047 Ac.
I	OPEN SPACE, PARK	0.07 Ac.
J	OPEN SPACE, PARK	0.33 Ac.
K	OPEN SPACE, DRAINAGE	4.71 Ac.
L	PARK SPACE, DRAINAGE	2.90 Ac.
M	OPEN SPACE, DRAINAGE, PUMP STATION	4.90 Ac.
N	OPEN SPACE, DRAINAGE	0.88 Ac.
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II	OPEN SPACE	0.14 Ac.
JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C7	150.00'	61.48'	31.18'	N38°06'27"E	61.05'	23°29'07"
C8	150.00'	67.75'	34.46'	N13°25'32"E	67.18'	25°52'43"
C9	150.00'	129.23'	68.94'	N25°10'05"E	125.27'	49°21'50"
C10	100.00'	157.08'	100.00'	N45°29'10"E	141.42'	90°00'00"
C11	100.00'	156.29'	99.21'	N45°13'35"E	140.86'	89°32'50"

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.: 24-01-0079
Designed: JEW
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Checked: JEW
O.C.: RCW
Date: APR 2025
Scale: 1" = 40'
Sheet 4K

P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 Site.dwg

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KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C12	80.00'	125.66'	80.00'	S45°27'10"W	113.14'	90°00'00"
C13	80.00'	125.66'	80.00'	N44°32'50"W	113.14'	90°00'00"

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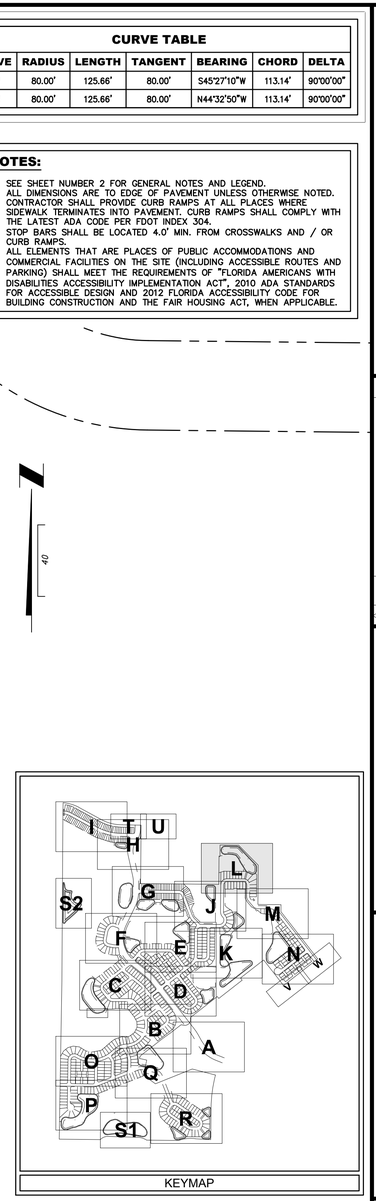

KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
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4			
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SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
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Reg. Engineer

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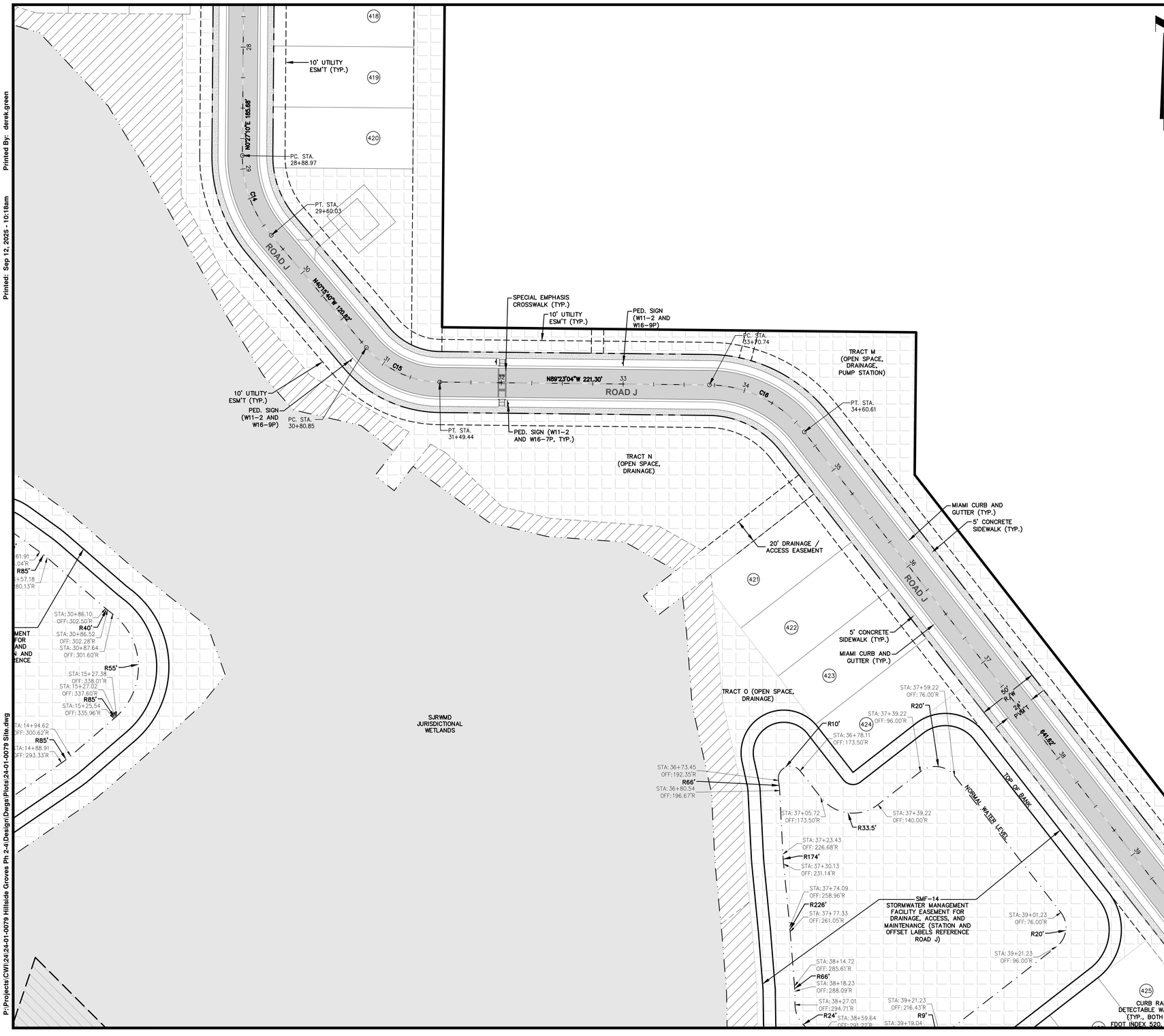

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C14	100.00'	71.06'	37.10'	S19°54'15"E	69.57'	40°42'50"
C15	80.00'	68.59'	36.56'	S64°49'22"E	66.51'	49°07'24"
C16	100.00'	89.87'	48.23'	N63°38'15"W	86.88'	51°29'38"

NOTES:

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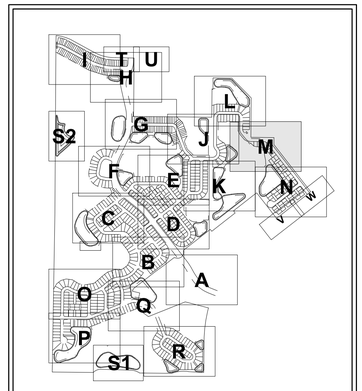

KEYMAP

PHASE 2-4 OPEN SPACE TRACT TABLE		
TRACT LETTER	TRACT USE	TRACT ACREAGE
A	OPEN SPACE	1.08 Ac.
B	OPEN SPACE, DRAINAGE	0.05 Ac.
C	OPEN SPACE	0.05 Ac.
D	OPEN SPACE, DRAINAGE	3.38 Ac.
E	OPEN SPACE, DRAINAGE	0.34 Ac.
F	OPEN SPACE, DRAINAGE	2.00 Ac.
G	OPEN SPACE	0.05 Ac.
H	OPEN SPACE	0.047 Ac.
I	OPEN SPACE, PARK	0.07 Ac.
J	OPEN SPACE, PARK	0.33 Ac.
K	OPEN SPACE, DRAINAGE	4.71 Ac.
L	PARK SPACE, DRAINAGE	2.90 Ac.
M	OPEN SPACE, DRAINAGE, PUMP STATION	4.90 Ac.
N	OPEN SPACE, DRAINAGE	0.88 Ac.
O	OPEN SPACE, DRAINAGE	1.88 Ac.
P	OPEN SPACE, DRAINAGE	0.89 Ac.
Q	PARK SPACE, DRAINAGE	1.36 Ac.
R	OPEN SPACE	0.08 Ac.
S	OPEN SPACE	0.05 Ac.
T	OPEN SPACE	0.35 Ac.
U	OPEN SPACE	0.28 Ac.
V	PARK SPACE, DRAINAGE	1.86 Ac.
W	OPEN SPACE	0.08 Ac.
X	OPEN SPACE	0.18 Ac.
Y	OPEN SPACE, DRAINAGE, PARK	0.96 Ac.
Z	PARK SPACE	0.10 Ac.
AA	PARK SPACE	0.13 Ac.
BB	PARK SPACE	0.15 Ac.
CC	OPEN SPACE	0.06 Ac.
DD	OPEN SPACE	0.09 Ac.
EE	OPEN SPACE	0.02 Ac.
FF	PARK SPACE	0.20 Ac.
II	OPEN SPACE	0.14 Ac.
JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

PRIME AV
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3068 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By

SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	Q.C.: RCW
Date: APR 2025	
Scale: 1" = 40'	
Sheet 4M	

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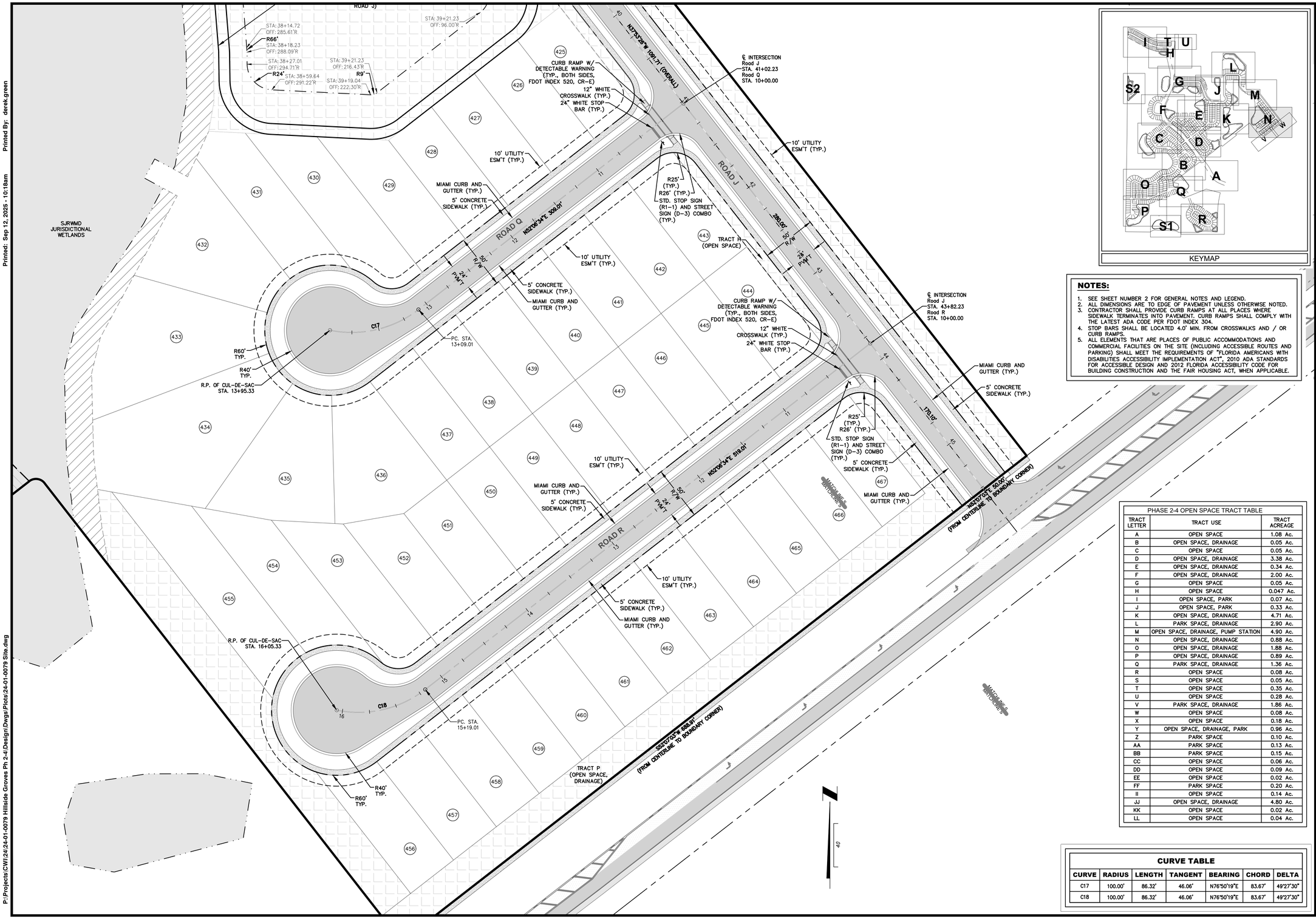

KEYMAP

NOTES:

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LL	OPEN SPACE	0.04 Ac.

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C17	100.00'	86.32'	46.06'	N76°50'19"E	83.67'	49°27'30"
C18	100.00'	86.32'	46.06'	N76°50'19"E	83.67'	49°27'30"

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	4N

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CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C20	300.00'	54.87'	27.51'	S81°58'20"W	54.79'	10°28'45"
C21	300.00'	138.49'	70.50'	S63°30'29"W	137.26'	26°26'58"
C22	300.00'	193.36'	100.17'	S68°44'52"W	190.03'	36°55'43"
C23	492.74'	39.83'	19.92'	N52°35'37"E	39.82'	4°37'52"
C24	495.00'	408.94'	216.95'	N78°33'19"E	397.40'	47°20'02"
C25	495.00'	170.95'	86.33'	S67°53'03"E	170.10'	19°47'14"
C26	495.00'	619.67'	357.83'	N86°08'47"E	579.99'	71°43'34"
C27	80.00'	169.02'	141.54'	S61°29'03"W	139.29'	121°03'01"
C28	100.00'	38.65'	19.57'	N79°53'11"E	38.41'	22°08'43"

PHASE 2-4 OPEN SPACE TRACT TABLE

TRACT LETTER	TRACT USE	TRACT ACREAGE
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KEYMAP

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NATURAL / VEGETATIVE UPLAND BUFFER

MARSH RIDGE PARKWAY

ROAD AA

ROAD Z

ROAD DD

MIAMI CURB AND GUTTER (TYP.)
5' CONCRETE SIDEWALK (TYP.)
10' UTILITY ESM'T (TYP.)
PRC. STA. 53+79.99
℄ INTERSECTION Road AA STA. 14+30.45 Road C STA. 52+08.93
PT. STA. 55+49.00
TRACT FF (PARK SPACE)
R25' (TYP.)
R26' (TYP.)
12" WHITE CROSSWALK (TYP.)
CURB RAMP W/ DETECTABLE WARNING (TYP., BOTH SIDES, FDOT INDEX 520, CR-E)
STD. STOP SIGN (R1-1) AND STREET SIGN (D-3) COMBO (TYP.)
24" WHITE STOP BAR (TYP.)
TRACT EE (OPEN SPACE)
TRACT LL (OPEN SPACE)
PED. SIGN (W11-2 AND W16-9P)
TRACT KK (OPEN SPACE)
TRACT II (OPEN SPACE)
TRACT DD (OPEN SPACE)
TRACT CC (OPEN SPACE)
TRACT BB (PARK SPACE)
℄ INTERSECTION Road C STA. 48+00.00 Road Z STA. 14+07.88
PT. STA. 47+60.32
PT. STA. 46+55.32
PC. STA. 44+61.96
℄ INTERSECTION Road C STA. 45+16.83 Road Y STA. 14+60.48
SPECIAL EMPHASIS CROSSWALK (TYP.)
PED. SIGN (W11-2 AND W16-7P, TYP.)
PT. STA. 13+10.68
PC. STA. 12+67.07
℄ INTERSECTION Road DD STA. 19+03.81 Road Z STA. 10+00.00
C20 C21 C22 (OVERALL) C23 C24 C25 C26 (OVERALL) C27 C28 C29
50' R/W
24' PVM'T
S05°57'33"W 722.33' (OVERALL)
423.32'
S05°57'33"W 430.45'
S89°02'27"E 555.30' (OVERALL)
150.00'
280.00'
125.30'
309.95'
302.30'
S53°17'00"W 105.00'
N30°16'01"W 127.88'
N05°57'33"E 871.87' (FROM CENTERLINE TO PHASING BOUNDARY CORNER)
N05°57'33"E 287.07'
N68°45'50"E 763.81' (OVERALL)

CONNELLY & WICKER LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3051 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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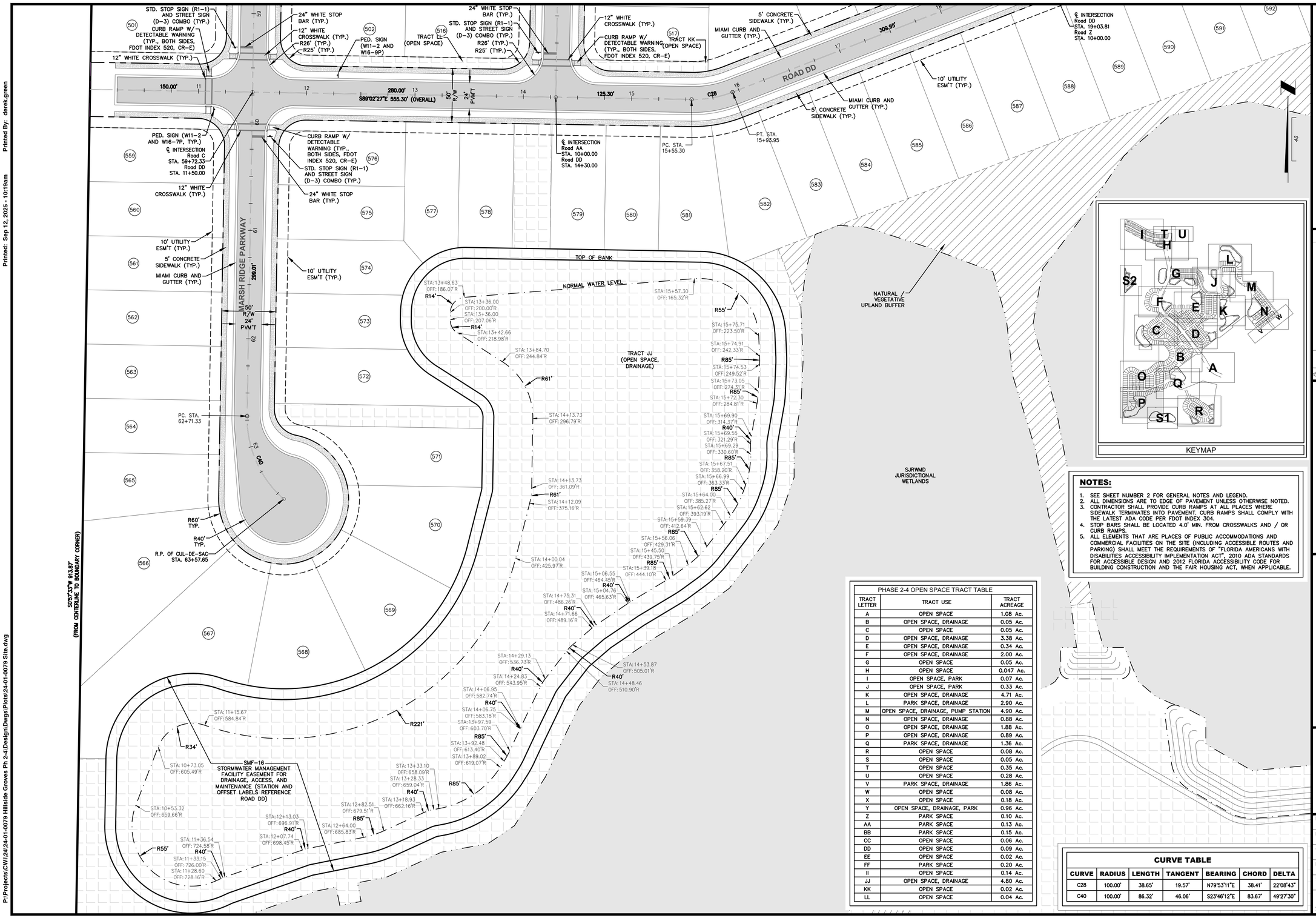
Sheet	40



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C40	100.00'	86.32'	46.06'	S23°46'12"E	83.67'	49°27'30"

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
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5			

SITE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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CURVE TABLE						
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C30	300.00'	163.51'	83.84'	N14°39'19"W	161.50'	31°13'43"
C31	150.00'	88.55'	45.61'	S85°43'35"W	87.27'	33°49'30"
C32	150.00'	146.77'	79.86'	N49°19'45"W	140.99'	56°03'50"

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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
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SITE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
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L	PARK SPACE, DRAINAGE	2.90 Ac.
M	OPEN SPACE, DRAINAGE, PUMP STATION	4.90 Ac.
N	OPEN SPACE, DRAINAGE	0.88 Ac.
O	OPEN SPACE, DRAINAGE	1.88 Ac.
P	OPEN SPACE, DRAINAGE	0.89 Ac.
Q	PARK SPACE, DRAINAGE	1.36 Ac.
R	OPEN SPACE	0.08 Ac.
S	OPEN SPACE	0.05 Ac.
T	OPEN SPACE	0.35 Ac.
U	OPEN SPACE	0.28 Ac.
V	PARK SPACE, DRAINAGE	1.86 Ac.
W	OPEN SPACE	0.08 Ac.
X	OPEN SPACE	0.18 Ac.
Y	OPEN SPACE, DRAINAGE, PARK	0.96 Ac.
Z	PARK SPACE	0.10 Ac.
AA	PARK SPACE	0.13 Ac.
BB	PARK SPACE	0.15 Ac.
CC	OPEN SPACE	0.06 Ac.
DD	OPEN SPACE	0.09 Ac.
EE	OPEN SPACE	0.02 Ac.
FF	PARK SPACE	0.20 Ac.
II	OPEN SPACE	0.14 Ac.
JJ	OPEN SPACE, DRAINAGE	4.80 Ac.
KK	OPEN SPACE	0.02 Ac.
LL	OPEN SPACE	0.04 Ac.

MILL & RESURFACE EXISTING PAVEMENT 1.5" TO ACCOMMODATE UNIFORM PLACEMENT OF FC 12.5 FRICTION COURSE

KEYMAP

NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C33	80.00'	33.20'	16.84'	S46°22'25"W	32.96'	23°46'30"
C34	80.00'	92.47'	52.18'	N88°37'35"W	87.41'	66°13'30"
C35	80.00'	125.66'	80.00'	N79°29'10"E	113.14'	90°00'00"
C36	80.00'	78.24'	42.57'	N27°29'52"W	75.16'	56°01'56"
C37	100.00'	156.18'	99.10'	N45°15'33"E	140.78'	89°28'54"
C38	100.00'	60.19'	31.04'	S72°45'25"E	59.29'	34°29'10"
C39	80.00'	125.66'	80.00'	S10°30'50"E	113.14'	90°00'00"

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	4R

Printed: Sep 12, 2025 - 10:57am Printed By: michaellancellotti

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No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SR-19 SITE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Sheet	4V

Printed: Aug 01, 2025 - 12:35pm Printed By: derek.green

P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 Pre.dwg

WETLAND (WET-01-PRE) DHW (25 YR) EL. = 82.43

WETLAND (WET-02-PRE) DHW (25 YR) EL. = 80.92

WETLAND (WET-04-PRE) DHW (25 YR) EL. = 80.21

LEGEND

- SJRWMD JURISDICTIONAL WETLANDS
- NATURAL / VEGETATIVE UPLAND BUFFER
- SOIL DIVIDE LINE
- DRAINAGE DIVIDE LINE
- 25 EXISTING CONTOUR
- 3 SOIL NUMBER

SOIL NUMBER	SOIL DESCRIPTION	HYD. GROUP
5	APOPKA 0%-5%	A
6	APOPKA 5%-12%	A
8	CANDLER 0%-5%	A
9	CANDLER 5%-12%	A
17	ARENTS	B
25	KENDRICK	A
28	MYAKKA	A/D
31	OCOEE	A/D
45	TAVARES	A
99	WATER	

SOURCE: USDA WEB SOIL SURVEY
AUGUST 27, 2022
LAKE COUNTY, FLORIDA

KEYMAP

ZONE A/E (EL 83.6)

SURVEYED STANDING WATER ELEVATION ≈ 79.5

NODE OUT-01-PRE

BASIN PRE-14
AREA = 3.6
CN = 51
Tc = 23
K (SCS) = 323

Tc PATH ≈ 394 LF

BASIN PRE-01
AREA = 52.4
CN = 59
Tc = 30
K (SCS) = 323

NODE OUT-02-PRE

BASIN PRE-05
AREA = 5.2
CN = 72
Tc = 16
K (SCS) = 323

SURVEYED STANDING WATER ELEVATION ≈ 76.3

Tc PATH ≈ 290 LF

CLOSED BASIN / OPEN BASIN

ZONE A/E (EL 81.2)

SURVEYED STANDING WATER ELEVATION ≈ 76.5

NODE OUT-03-PRE

BASIN PRE-15
AREA = 1.2
CN = 72
Tc = 25
K (SCS) = 323

Tc PATH ≈ 505 LF

EXISTING 24" CMP

BASIN PRE-06
AREA = 27.4
CN = 72
Tc = 40
K (SCS) = 323

Tc PATH ≈ 809 LF

NODE WET-01-PRE

BASIN WET-01-PRE
AREA = 11.4
CN = 91
Tc = 10
K (SCS) = 484

BASIN PRE-02
AREA = 21.4
CN = 72
Tc = 26
K (SCS) = 323

BASIN PRE-03
AREA = 7.5
CN = 72
Tc = 28
K (SCS) = 323

Tc PATH ≈ 331 LF

Tc PATH ≈ 471 LF

NODE WET-02-PRE

BASIN WET-02-PRE
AREA = 4.7
CN = 87
Tc = 10
K (SCS) = 484

SURVEYED STANDING WATER ELEVATION ≈ 78.5

SURVEYED STANDING WATER ELEVATION ≈ 79.4

NODE WET-04-PRE

BASIN WET-04-PRE
AREA = 14.8
CN = 91
Tc = 10
K (SCS) = 484

SURVEYED STANDING WATER ELEVATION ≈ 77.6

NODE WET-06-PRE

BASIN PRE-08
AREA = 3.6
CN = 76
Tc = 23
K (SCS) = 323

SURVEYED STANDING WATER ELEVATION ≈ 79.1

NODE WET-03-PRE

NODE WET-05-PRE

BASIN WET-05-PRE
AREA = 3.9
CN = 89
Tc = 10
K (SCS) = 484

SJRWMD JURISDICTIONAL WETLANDS

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No.	Date	Revision	By
1			
2			
3			
4			
5			

PRE DEVELOPMENT DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Scale:	1" =150'
Sheet	5A

Printed: Aug 01, 2025 - 12:35pm Printed By: derek.green

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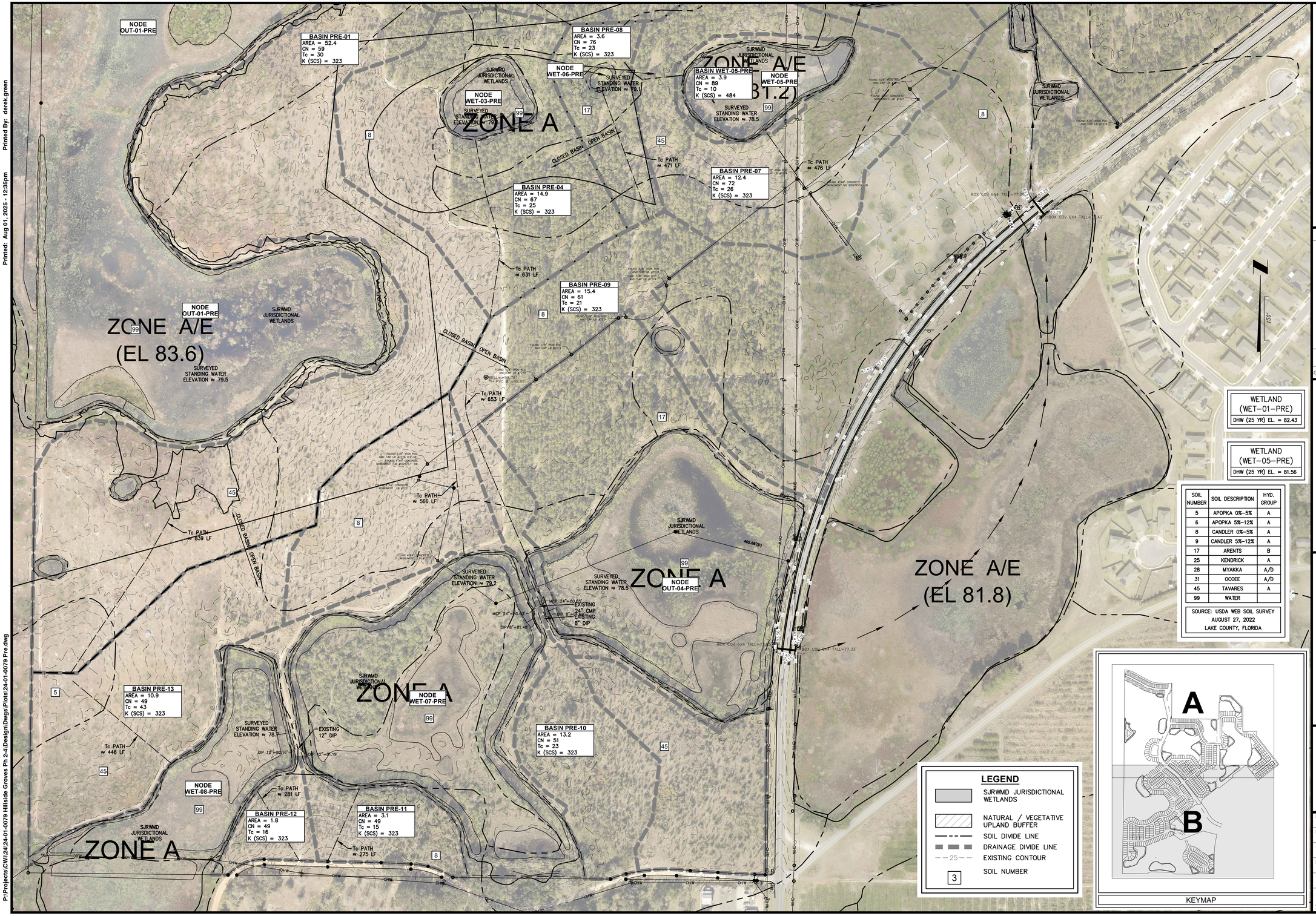

SOIL NUMBER	SOIL DESCRIPTION	HYD. GROUP
5	APOPKA 0%-5%	A
6	APOPKA 5%-12%	A
8	CANDLER 0%-5%	A
9	CANDLER 5%-12%	A
17	ARENTS	B
25	KENDRICK	A
28	MYAKKA	A/D
31	OCOEE	A/D
45	TAVARES	A
99	WATER	

SOURCE: USDA WEB SOIL SURVEY
AUGUST 27, 2022
LAKE COUNTY, FLORIDA

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
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PRE DEVELOPMENT DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
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Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" =150'
Sheet	5B

Printed By: justin.williams
Printed: Sep 09, 2025 - 7:55am
P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 Post.dwg

STORMWATER MANAGEMENT FACILITY ~ SMF-02
MIN. TOB EL.= 86.80
NWL EL.= 82.30
MIN. DEPTH BOT. EL.= 74.30
MAX DEPTH BOT. EL.= 70.30
DHW (100 YR) EL.= 86.26
DHW (25 YR) EL.= 85.55
DHW (10 YR) EL.=84.97
DHW (MEAN) EL.= 83.73

STORMWATER MANAGEMENT FACILITY ~ SMF-03
MIN. TOB EL.= 85.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 85.23
DHW (25 YR) EL.= 84.34
DHW (10 YR) EL.=83.68
DHW (MEAN) EL.= 82.98

STORMWATER MANAGEMENT FACILITY ~ SMF-05
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.16
DHW (25 YR) EL.= 82.74
DHW (10 YR) EL.=82.44
DHW (MEAN) EL.= 82.04

STORMWATER MANAGEMENT FACILITY ~ SMF-06
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.25
DHW (25 YR) EL.= 82.77
DHW (10 YR) EL.=82.45
DHW (MEAN) EL.= 82.04

STORMWATER MANAGEMENT FACILITY ~ SMF-07
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.89
DHW (25 YR) EL.= 83.03
DHW (10 YR) EL.=82.50
DHW (MEAN) EL.= 82.05

STORMWATER MANAGEMENT FACILITY ~ SMF-08
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.06
DHW (25 YR) EL.= 84.64
DHW (10 YR) EL.=84.34
DHW (MEAN) EL.= 83.86

STORMWATER MANAGEMENT FACILITY ~ SMF-09
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.35
DHW (25 YR) EL.= 84.71
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 83.86

STORMWATER MANAGEMENT FACILITY ~ SMF-10
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.39
DHW (25 YR) EL.= 84.73
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 83.86

STORMWATER MANAGEMENT FACILITY ~ SMF-11
MIN. TOB EL.= 86.50
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.73
DHW (25 YR) EL.= 85.09
DHW (10 YR) EL.=84.61
DHW (MEAN) EL.= 83.87

WETLAND (WET-08-PST)
DHW (100 YR) EL. = 80.23
DHW (25 YR) EL. = 80.09
DHW (10 YR) EL. =79.99

WETLAND (WET-07-PST)
DHW (100 YR) EL. = 80.23
DHW (25 YR) EL. = 79.20
DHW (10 YR) EL. =78.84

WETLAND (WET-05-PST)
DHW (100 YR) EL. = 81.52
DHW (25 YR) EL. = 80.48
DHW (10 YR) EL. =79.92

WETLAND (WET-01-PST)
DHW (100 YR) EL. = 83.41
DHW (25 YR) EL. = 82.44
DHW (10 YR) EL. =81.49

WETLAND (WET-02-PST)
DHW (100 YR) EL. = 83.41
DHW (25 YR) EL. = 82.43
DHW (10 YR) EL. =81.49

WETLAND (WET-04-PST)
DHW (100 YR) EL. = 81.52
DHW (25 YR) EL. = 80.48
DHW (10 YR) EL. =79.92

STORMWATER MANAGEMENT FACILITY ~ SMF-12
MIN. TOB EL.= 86.00
NWL EL.= 84.00
MIN. DEPTH BOT. EL.= 76.00
MAX DEPTH BOT. EL.= 72.00
DHW (100 YR) EL.= 84.71
DHW (25 YR) EL.= 84.53
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 84.18

STORMWATER MANAGEMENT FACILITY ~ SMF-13
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 82.86
DHW (25 YR) EL.= 82.44
DHW (10 YR) EL.=82.19
DHW (MEAN) EL.= 81.89

STORMWATER MANAGEMENT FACILITY ~ SMF-14
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 84.51
DHW (25 YR) EL.= 83.79
DHW (10 YR) EL.=83.28
DHW (MEAN) EL.= 82.51

BASIN SUB-11
AREA = 8.4
CN = 74
Tc = 22
K (SCS) = 484

BASIN COMP-01
AREA = 3.6
CN = 68
Tc = 10
K (SCS) = 484

BASIN RY-01
AREA = 10.6
CN = 69
Tc = 10
K (SCS) = 484

BASIN RY-02
AREA = 0.6
CN = 45
Tc = 10
K (SCS) = 484

BASIN SUB-08
AREA = 5.1
CN = 81
Tc = 15
K (SCS) = 484

BASIN SUB-09
AREA = 4.0
CN = 80
Tc = 23
K (SCS) = 484

BASIN SUB-10
AREA = 3.1
CN = 79
Tc = 17
K (SCS) = 484

BASIN RY-04
AREA = 1.5
CN = 59
Tc = 11
K (SCS) = 484

BASIN RY-05
AREA = 1.2
CN = 58
Tc = 15
K (SCS) = 484

BASIN SUB-12
AREA = 2.3
CN = 56
Tc = 17
K (SCS) = 484

BASIN SUB-13
AREA = 8.5
CN = 71
Tc = 22
K (SCS) = 484

BASIN SUB-06
AREA = 1.2
CN = 75
Tc = 18
K (SCS) = 484

BASIN RY-07
AREA = 4.1
CN = 50
Tc = 15
K (SCS) = 484

BASIN RY-06
AREA = 1.2
CN = 38
Tc = 10
K (SCS) = 484

BASIN SUB-14
AREA = 12.0
CN = 75
Tc = 21
K (SCS) = 484

BASIN SUB-05
AREA = 8.0
CN = 70
Tc = 21
K (SCS) = 484

BASIN RY-08
AREA = 3.2
CN = 50
Tc = 17
K (SCS) = 484

BASIN SUB-03
AREA = 2.2
CN = 77
Tc = 10
K (SCS) = 484

BASIN SUB-07
AREA = 4.4
CN = 78
Tc = 19
K (SCS) = 484

BASIN SUB-04
AREA = 24.8
CN = 74
Tc = 26
K (SCS) = 484

BASIN SUB-02
AREA = 11.5
CN = 73
Tc = 22
K (SCS) = 484

BASIN RY-03
AREA = 3.3
CN = 56
Tc = 11
K (SCS) = 484

BASIN WET-01-PST
AREA = 11.4
CN = 91
Tc = 10
K (SCS) = 484

BASIN WET-02-PST
AREA = 4.7
CN = 87
Tc = 10
K (SCS) = 484

BASIN WET-04-PST
AREA = 14.8
CN = 91
Tc = 10
K (SCS) = 484

BASIN WET-05-PST
AREA = 3.8
CN = 89
Tc = 10
K (SCS) = 484

NODE SMF-11
NODE S-08E
BASIN S-08E
NODE S-08D
BASIN S-08D
NODE S-08C
BASIN S-08C
NODE OUT-01-PST
NODE SMF-08
NODE S-09A
NODE SMF-09
NODE SMF-10
NODE COMP-01
NODE S-08A
BASIN S-08A
NODE S-08B
BASIN S-08B
NODE WET-01-PST
NODE SMF-02
NODE SMF-07
NODE S-05D
BASIN S-05D
NODE S-05F
BASIN S-05F
NODE S-05C
BASIN S-05C
NODE S-05B
BASIN S-05B
NODE S-05A
BASIN S-05A
NODE SMF-05
NODE SMF-06
NODE WET-04-PST
NODE SMF-12
NODE WET-02-PST
NODE SMF-13
NODE OUT-02-PST
NODE OUT-03-PST
NODE SMF-14
NODE SMF-03
NODE WET-05-PST
NODE S-04C
NODE S-04D

CONTROL STRUCTURE (CS-11)
CONTROL STRUCTURE (CS-08)
CONTROL STRUCTURE (CS-02)
CONTROL STRUCTURE (CS-05)
CONTROL STRUCTURE (CS-12)
CONTROL STRUCTURE (CS-13)
CONTROL STRUCTURE (CS-14)
CONTROL STRUCTURE (CS-03)

BUFFER TREATMENT AREA 02
BUFFER TREATMENT AREA 03
BUFFER TREATMENT AREA 04
BUFFER TREATMENT AREA 05
BUFFER TREATMENT AREA 06
BUFFER TREATMENT AREA 07
BUFFER TREATMENT AREA 08
BUFFER TREATMENT AREA 09
BUFFER TREATMENT AREA 10
BUFFER TREATMENT AREA 11
BUFFER TREATMENT AREA 12
BUFFER TREATMENT AREA 13
BUFFER TREATMENT AREA 14

SEASONAL HIGH WATER ELEVATION = 81.34±
SEASONAL HIGH WATER ELEVATION = 81.53±
SEASONAL HIGH WATER ELEVATION = 80.96±
SEASONAL HIGH WATER ELEVATION = 81.20±
SEASONAL HIGH WATER ELEVATION = 80.57±
SEASONAL HIGH WATER ELEVATION = 80.49±
SEASONAL HIGH WATER ELEVATION = 80.39±
SEASONAL HIGH WATER ELEVATION = 79.92±
SEASONAL HIGH WATER ELEVATION = 80.19±
SEASONAL HIGH WATER ELEVATION = 80.60±

SJRWMD JURISDICTIONAL WETLANDS

OVERTREATMENT-06 (0.29 Ac.±)

150'

KEYMAP

A
B

LEGEND

- SJRWMD JURISDICTIONAL WETLANDS
- NATURAL / VEGETATIVE UPLAND BUFFER
- SOIL DIVIDE LINE
- DRAINAGE DIVIDE LINE
- 25 EXISTING CONTOUR
- 3 SOIL NUMBER

SOIL NUMBER	SOIL DESCRIPTION	HYD. GROUP
5	APOPKA 0%-5%	A
6	APOPKA 5%-12%	A
8	CANDLER 0%-5%	A
9	CANDLER 5%-12%	A
17	ARENTS	B
25	KENDRICK	A
28	MYAKKA	A/D
31	OCOEE	A/D
45	TAVARES	A
99	WATER	

SOURCE: USDA WEB SOIL SURVEY
AUGUST 27, 2022
LAKE COUNTY, FLORIDA

CW PRIME
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

POST DEVELOPMENT DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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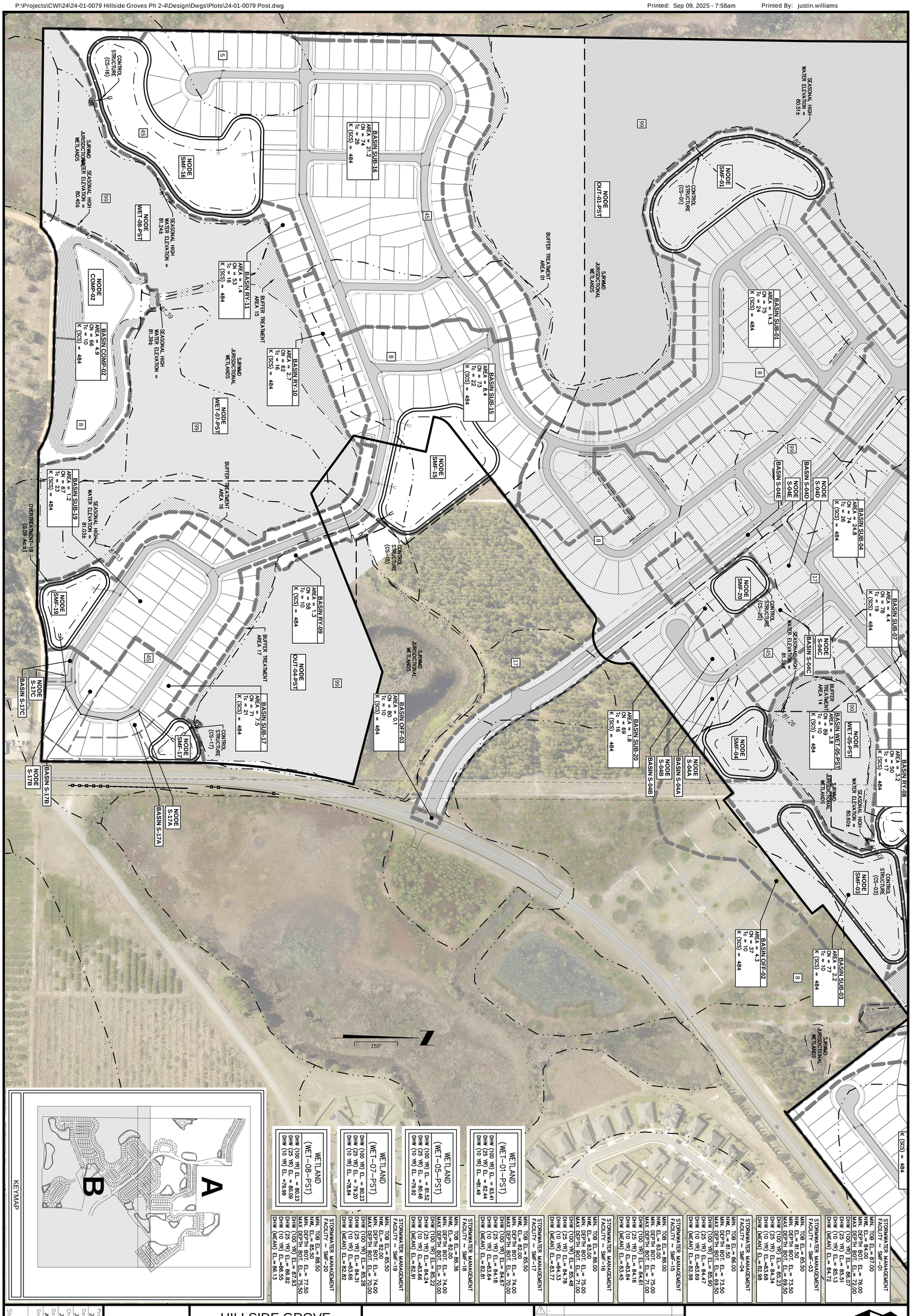

Project No:	24-01-0079
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HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

POST DEVELOPMENT DRAINAGE PLAN

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

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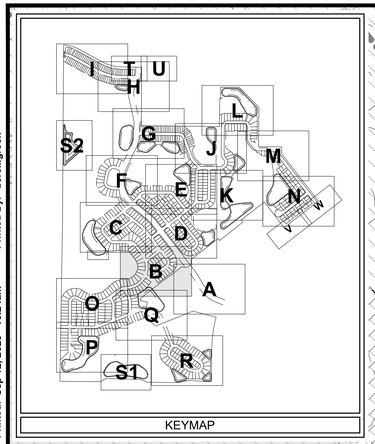
Printed: Sep 12, 2025 - 10:24am Printed By: derek.green

P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 P4.dwg



KEYMAP

DRAINAGE STRUCTURE TABLE

STR. NO.	STRUCTURE TYPE	TOP EL.	INVERT EL.		
S-12	STD. MES	-	76.60	30" RCP	
S-13	MOD J-2 INLET	84.50	78.10	30" RCP	NE
			79.00	30" RCP	SW
S-14	STD. MES	-	77.50	30" RCP	
S-15	STD. MES	-	79.00	18" RCP	
S-16	TYPE C INLET	85.60	80.00	18" RCP	
			80.00	18" RCP	
S-17	STD. MES	-	79.00	18" RCP	
S-18	STD. MES	-	78.00	30" HP	
S-19	SINGLE CURB INLET	88.26	78.45	30" HP	
			78.45	30" HP	
			81.65	15" HP	
S-20	SINGLE CURB INLET	89.15	78.65	30" HP	
			78.65	30" HP	
S-21	SINGLE CURB INLET	87.38	78.90	30" HP	
			79.40	24" HP	
			81.20	15" HP	
S-22	SINGLE CURB INLET	87.47	79.50	24" HP	
			79.50	24" HP	
S-23	STD. MES	-	78.50	24" HP	
S-32	STD. MES	-	79.00	30" HP	
S-33	TYPE C INLET	85.60	80.50	30" HP	
			80.50	30" HP	
			81.60	18" HP	
S-34	STD. MES	-	79.00	30" HP	
S-43	STD. MES	-	78.00	15" HP	
S-44	MOD E INLET	86.00	79.50	15" HP	W
			82.75	15" HP	E
S-45	STD. MES	-	81.25	15" HP	
S-46	STD. MES	-	76.50	24" RCP	
S-47	TYPE E INLET	86.20	77.15	24" RCP	SW
			79.30	24" HP	N
S-48	TYPE E INLET	88.50	79.55	24" HP	
			79.55	24" HP	
S-49	MOD E INLET	92.20	80.00	24" HP	S
			80.00	24" HP	NW
S-50	STD. MES	-	78.50	24" HP	
S-51	STD. MES	-	76.60	30" RCP	
S-52	MOD E INLET	84.50	76.95	30" RCP	NW
			79.00	30" RCP	NE
S-53	STD. MES	-	77.50	30" RCP	
S-54	STD. MES	-	77.50	36" RCP	
S-55	MOD J-2 INLET	86.00	78.35	36" RCP	SE
			80.00	36" RCP	NW
S-56	STD. MES	-	78.50	36" RCP	
S-57	STD. MES	-	77.75	36" HP	
S-58	MOD J-2 INLET	86.30	77.95	36" HP	S
			80.00	36" HP	N
S-59	STD. MES	-	78.50	36" HP	

DRAINAGE STRUCTURE TABLE

STR. NO.	STRUCTURE TYPE	TOP EL.	INVERT EL.		
S-60	STD. MES	-	77.50	36" HP	
S-61	MOD J-2 INLET	85.50	77.65	36" HP	NW
			79.00	36" HP	SE
S-62	STD. MES	-	78.00	36" HP	
S-63	STD. MES	-	78.50	30" HP	
S-64	SINGLE CURB INLET	86.76	78.65	30" HP	
			78.65	30" HP	
			80.15	15" HP	
S-65	TYPE J MH	87.30	79.10	30" HP	
			79.10	30" HP	
S-66	TYPE J MH	87.85	79.30	30" HP	
			79.30	30" HP	
S-67	SINGLE CURB INLET	87.01	79.40	30" HP	
			79.40	30" HP	
			83.30	15" HP	
S-68	SINGLE CURB INLET	87.02	79.50	30" HP	E
			79.40	30" HP	W
S-69	STD. MES	-	78.50	30" HP	
S-77	STD. MES	-	79.40	24" RCP	
S-78	STD. MES	-	78.50	24" RCP	
S-79	STD. MES	-	78.00	30" RCP	
S-80	TYPE J MH	86.95	78.10	30" RCP	
			78.10	30" RCP	
S-81	MOD E INLET	81.50	78.25	30" RCP	
S-84	STD. MES	-	77.50	36" RCP	
S-85	MOD. E INLET	82.65	77.65	36" RCP	
S-501	SINGLE CURB INLET	88.26	81.75	15" HP	
S-502	SINGLE CURB INLET	87.44	81.30	15" HP	
S-600	STD. MES	-	78.35	18" HP	
S-601	SINGLE CURB INLET	86.96	78.65	18" HP	
			81.00	15" HP	
			78.65	18" HP	
S-602	SINGLE CURB INLET	86.96	81.10	15" HP	
S-603	SINGLE CURB INLET	85.96	79.15	18" HP	
			79.40	15" HP	
S-604	SINGLE CURB INLET	85.96	79.50	15" HP	
S-700	STD. MES	-	78.50	18" HP	
S-701	TYPE J MH	84.70	78.65	18" HP	NW
			78.75	18" HP	E
S-702	SINGLE CURB INLET	88.06	79.00	18" HP	
			79.00	18" HP	
S-703	SINGLE CURB INLET	88.06	79.05	18" HP	
			79.05	18" HP	
S-704	SINGLE CURB INLET	86.07	79.60	18" HP	
			82.40	15" HP	SW
			82.15	15" HP	S
S-705	SINGLE CURB INLET	86.26	82.50	15" HP	
S-706	SINGLE CURB INLET	86.00	82.25	15" HP	

DRAINAGE STRUCTURE TABLE

STR. NO.	STRUCTURE TYPE	TOP EL.	INVERT EL.		
S-901	SINGLE CURB INLET	86.06	81.85	18" HP	
			81.85	18" HP	
S-902	SINGLE CURB INLET	86.06	81.95	18" HP	
			82.20	15" HP	
S-903	15" YARD DRAIN	85.90	82.65	15" HP	
S-1000	STD. MES	-	79.90	15" HP	
S-1001	TYPE J MH	86.20	80.00	15" HP	
			80.00	15" HP	
S-1002	TYPE J MH	86.80	80.10	15" HP	
			80.10	15" HP	
S-1003	SINGLE CURB INLET	86.41	80.30	15" HP	
			80.30	15" RCP	
S-1004	SINGLE CURB INLET	86.41	80.40	15" RCP	
S-1100	STD. MES	-	77.70	30" HP	
S-1101	TYPE J MH	86.60	77.75	30" HP	
			77.75	30" HP	
S-1102	SINGLE CURB INLET	86.32	77.85	30" HP	
			77.85	30" HP	
S-1103	SINGLE CURB INLET	85.96	78.05	30" HP	
			78.05	15" HP	
			78.25	24" HP	
S-1104	SINGLE CURB INLET	85.96	78.15	15" HP	S
			79.90	15" HP	N
S-1105	18" YARD DRAIN	85.20	82.45	15" HP	
S-1106	TYPE J MH	86.70	78.50	24" HP	
			78.50	24" HP	
S-1107	SINGLE CURB INLET	87.14	78.75	24" HP	SE
			79.15	18" HP	N
			79.10	24" HP	NW
S-1108	SINGLE CURB INLET	87.15	79.25	18" HP	
			81.00	15" HP	
S-1109	18" YARD DRAIN	86.90	84.15	15" HP	
S-1110	SINGLE CURB INLET	86.91	79.70	24" HP	
			80.45	15" HP	
S-1111	SINGLE CURB INLET	86.91	80.55	15" HP	
S-1300	STD. MES	-	78.00	24" HP	
S-1301	TYPE J MH	84.60	78.50	24" HP	N
			78.90	24" HP	S
S-1302	SINGLE CURB INLET	86.86	79.10	24" HP	
			80.00	15" HP	
			79.85	18" HP	
S-1303	SINGLE CURB INLET	85.86	80.35	15" HP	E
			82.00	15" HP	SE
S-1304	SINGLE CURB INLET	85.86	82.10	15" HP	
S-1305	TYPE J MH	87.50	80.00	18" HP	
			80.00	18" HP	
S-1306	SINGLE CURB INLET	85.96	80.50	18" HP	
			82.10	15" HP	
S-1307	SINGLE CURB INLET	85.96	82.20	15" HP	
S-1400	STD. MES	-	78.90	15" HP	
S-1401	SINGLE CURB INLET	87.78	81.50	15" HP	SW
			82.30	15" HP	NW
S-1402	SINGLE CURB INLET	86.56	82.70	15" HP	
			82.70	15" HP	
S-1403	SINGLE CURB INLET	86.56	82.80	15" HP	
S-1404	STD. MES	-	76.00	30" HP	
S-1405	SINGLE CURB INLET	89.38	76.15	30" HP	SW
			77.10	30" HP	SE
S-1406	SINGLE CURB INLET	90.37	77.25	30" HP	
			82.05	18" HP	
			77.75	24" HP	
S-1407	SINGLE CURB INLET	88.96	82.60	18" HP	
			82.85	15" HP	
S-1408	SINGLE CURB INLET	88.96	82.95	15" HP	
S-1409	SINGLE CURB INLET	89.51	78.10	24" HP	
			78.10	24" HP	
			81.30	15" HP	
S-1410	SINGLE CURB INLET	89.36	78.20	24" HP	NE
			79.65	24" HP	SW
S-1411	SINGLE CURB INLET	88.42	79.95	24" HP	
			79.95	24" HP	
S-1412	SINGLE CURB INLET	87.51	80.30	24" HP	
			81.05	15" HP	
S-1413	SINGLE CURB INLET	87.51	81.15	15" HP	
S-1414	SINGLE CURB INLET	85.56	81.70	15" HP	
			81.70	15" HP	
S-1415	SINGLE CURB INLET	85.56	81.80	15" HP	

DRAINAGE STRUCTURE TABLE

STR. NO.	STRUCTURE TYPE	TOP EL.	INVERT EL.		
S-1500	STD. MES	-	80.25	15" HP	
S-1501	SINGLE CURB INLET	85.76	81.85	15" HP	N
			81.90	15" HP	S
S-1502	SINGLE CURB INLET	85.76	82.00	15" HP	
S-1503	STD. MES	-	79.50	24" HP	
S-1504	SINGLE CURB INLET	86.76	79.90	24" HP	
			82.90	15" HP	
			80.40	18" HP	
S-1505	SINGLE CURB INLET	86.76	83.00	15" HP	
S-1506	SINGLE CURB INLET	88.20	81.15	18" HP	E
			84.10	15" HP	
			81.50	18" HP	N
S-1507	SINGLE CURB INLET	88.02	84.25	15" HP	
S-1508	TYPE J MH	89.75	82.40	18" HP	
			82.65	15" HP	
S-1509	SINGLE CURB INLET	89.54	83.10	15" HP	SE
			85.75	15" HP	NW
			85.60	15" HP	W
S-1510	SINGLE CURB INLET	89.89	86.10	15" HP	
S-1511	SINGLE CURB INLET	89.45	85.70	15" HP	
S-1600	STD. MES	-	80.00	18" HP	
S-1601	TYPE J MH	90.50	81.15	18" HP	E
			86.65	18" HP	W
S-1602	SINGLE CURB INLET	91.25	87.05	18" HP	
			87.30	15" HP	
S-1603	SINGLE CURB INLET	91.19	87.40	15" HP	
S-1604	STD. MES	-	74.50	42" HP	
S-1605	TYPE J MH	89.20	74.55	42" HP	
			74.55	42" HP	
S-1606	SINGLE CURB INLET	88.16	74.65	42" HP	
			81.60	18" HP	
			80.70	24" HP	
			75.15	36" HP	
S-1607	SINGLE CURB INLET	89.44	82.80	18" HP	
			85.65	15" HP	
S-1608	SINGLE CURB INLET	89.56	85.80	15" HP	
			85.80	15" HP	
S-1609	SINGLE CURB INLET	89.68	85.90	15" HP	
S-1610	SINGLE CURB INLET	87.21	81.00	24" HP	
			83.35	15" HP	
			81.00	24" HP	
S-1611	SINGLE CURB INLET	87.21	83.45	15" HP	
S-1612	SINGLE CURB INLET	88.49	81.60	24" HP	
			84.20	15" HP	
S-1613	SINGLE CURB INLET	88.23	84.30	15" HP	
			84.30	15" HP	
S-1614	SINGLE CURB INLET	88.23	84.45	15" HP	
S-1615	SINGLE CURB INLET	87.93	75.25	36" HP	
			75.25	36" HP	
S-1616	SINGLE CURB INLET	86.54	75.40	36" HP	
			82.65	15" HP	
			75.40	36" HP	
S-1617	SINGLE CURB INLET	86.54	82.75	15" HP	
S-1618	SINGLE CURB INLET	85.55	75.55	36" HP	
			79.20	18" HP	
			76.55	24" HP	
S-1619	SINGLE CURB INLET	85.54	79.30	18" HP	
			81.75	15" HP	
S-1620	SINGLE CURB INLET	85.66	81.85	15" HP	
S-1621	SINGLE CURB INLET	86.94	76.85	24" HP	
			83.05	15" HP	
			80.10	18" HP	
S-1622	SINGLE CURB INLET	86.94	83.15	15" HP	
S-1623	SINGLE CURB INLET	86.54	80.40	18" HP	
			80.40	18" HP	
S-1624	SINGLE CURB INLET	87.46	80.80	18" HP	
			81.20	15" HP	
S-1625	SINGLE CURB INLET	87.50	81.35	15" HP	
			81.35	15" HP	
S-1626	SINGLE CURB INLET	87.85	81.45	15" HP	
S-1700	STD. MES	-	79.25	15" HP	
S-1701	SINGLE CURB INLET	85.20	79.35	15" HP	
S-1702	SINGLE CURB INLET	86.76	80.25	15" HP	
S-1703	SINGLE CURB INLET	87.26	83.50	15" HP	
S-1900	STD. MES	-	78.50	24" HP	
S-1901	SINGLE CURB INLET	86.76	78.60	24" HP	
			80.15	15" HP	
			78.60	24" HP	
S-1902	SINGLE CURB INLET	86.76	80.25	15" HP	
S-1903	SINGLE CURB INLET	87.21	78.85	24" HP	
			78.85	24" HP	
S-1904	SINGLE CURB INLET	86.77	79.00	24" HP	
			79.00	24" HP	
S-1905	SINGLE CURB INLET	85.40	79.25	24" HP	SW
			81.80	15" HP	SE
			81.55	15" HP	NE
S-1906	SINGLE CURB INLET	85.68	81.90	15" HP	
S-1907	SINGLE CURB INLET	85.43	81.65	15" HP	
S-2101	FDOT TYPE MES	-	83.15	15" HP	
S-2102	TYPE C INLET	85.50	83.35	15" HP	

PHASE 1A
PHASE 4

HATCHED AREAS SHOWN FOR CONSTRUCTION PHASING SHOWN FOR INFORMATIONAL PURPOSES ONLY

10' UTILITY ESM'T (TYP.)

HIGH POINT
STA. 41+25.00
EL. = 93.70

BREAK POINT
STA. 45+16.83 ROAD C
STA. 14+60.48 ROAD Y
EL. = 90.00

46 L.F. ~
15" HP STORM PP

S-1510

0.45 Ac±

ROAD C

10' UTILITY ESM'T (TYP.)

0.83 Ac±

S-1509

LOW POINT
STA. 14+48.48
EL. = 89.76
181 L.F. ~
15" HP STORM PP

S-1511

51 L.F. ~
15" HP STORM PP

0.32 Ac±

TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
MHL BOTTOM
MAX. BOTTOM

40'

NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL NOT SCALE PLAN BUT SHALL REFER TO SITE PLAN FOR ALL LINE DIMENSIONS.
3. ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE/RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
4. REFER TO SHEET 7B FOR DRAINAGE STRUCTURE TABLE.
5. ALL CURB RAMPS SHALL BE CONSTRUCTED WITH THE SUBDIVISION.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7B

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL NOT SCALE PLAN BUT SHALL REFER TO SITE PLAN FOR ALL LINE DIMENSIONS.
3. ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE/RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
4. REFER TO SHEET 7B FOR DRAINAGE STRUCTURE TABLE.
5. ALL CURB RAMPS SHALL BE CONSTRUCTED WITH THE SUBDIVISION.

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
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5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

KEYMAP

SJRWMD JURISDICTIONAL WETLANDS

40'

TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
MIN. BOTTOM
MAX. BOTTOM

SMF-07 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
2.10 Ac±

STORMWATER MANAGEMENT FACILITY ~ SMF-07
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.89
DHW (25 YR) EL.= 83.03
DHW (10 YR) EL.=82.50
DHW (MEAN) EL.= 82.05

PHASE 2
PHASE 1B

PHASE 3
PHASE 1B

HATCHED AREAS PHASE 1B CONSTRUCTION SHOWN FOR INFORMATIONAL PURPOSES ONLY

HATCHED AREAS PHASE 1B CONSTRUCTION SHOWN FOR INFORMATIONAL PURPOSES ONLY

20' DRAINAGE / ACCESS EASEMENT

0.45 Ac±
180 L.F. ~ 24" HP STORM PP
LOW POINT STA. 24+55.00 EL. = 87.70
S-22
S-23
S-700
S-701
35 L.F. ~ 18" HP STORM PP
149 L.F. ~ 18" HP STORM PP
0.12 Ac±
1.14 Ac±
1.40 Ac±
0.40 Ac±
0.72 Ac±
0.83 Ac±
1.43 Ac±
0.60 Ac±
0.59 Ac±
0.26 Ac±
0.69 Ac±
0.07 Ac±

HIGH POINT STA. 24+85.57 ROAD N
STA. 10+00.00 ROAD J
EL. = 87.85

37 L.F. ~ 24" RCP
42 L.F. ~ 15" HP STORM PP
S-21
269 L.F. ~ 30" HP STORM PP
BREAK POINT STA. 12+80.01 ROAD J
STA. 17+07.74 ROAD P
EL. = 89.35
S-20

ROAD J

S-502
LOW POINT STA. 10+12.00 EL. = 87.61
BREAK POINT STA. 16+95.00 EL. = 89.11
S-703
28 L.F. ~ 18" HP STORM PP
BREAK POINT STA. 23+07.00 EL. = 88.30
S-501
28 L.F. ~ 15" HP STORM PP
LOW POINT STA. 15+20.00 EL. = 88.50
HIGH POINT STA. 22+25.00 EL. = 88.60
290 L.F. ~ 18" HP STORM PP
HIGH POINT STA. 14+75.00 EL. = 88.70
10' UTILITY ESM'T (TYP.)

ROAD B
ROAD P

47 L.F. ~ 15" HP STORM PP
BREAK POINT STA. 19+87.20 ROAD B
STA. 10+00.00 ROAD P
EL. = 86.50
S-705
LOW POINT STA. 10+12.00 EL. = 86.33
49 L.F. ~ 15" HP STORM PP
S-704
S-706
BREAK POINT STA. 18+70.27 EL. = 85.75

355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390

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No.	Date	Revision	By

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7E

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P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 Pd.dwg

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HED AREA IS PHASE 1A
TRUCTION AND SHOWN
NFORMATIONAL PURPOSES

SJRWMD JURISDICTIONAL WETLANDS

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL NOT SCALE PLAN BUT SHALL REFER TO SITE PLAN FOR ALL LINE DIMENSIONS.
3. ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE/RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
4. REFER TO SHEET 7B FOR DRAINAGE STRUCTURE TABLE.
5. ALL CURB RAMPS SHALL BE CONSTRUCTED WITH THE SUBDIVISION.

NOTES:
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3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
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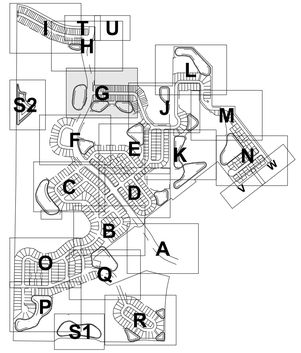
40'



KEYMAP

S-903
292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315
20' DRAINAGE ACCESS EASEMENT
0.74 Ac±
116 L.F. ~ 15" HP STORM PP
0.86 Ac±
0.40 Ac±
LOW POINT STA. 13+50.00 EL. = 86.30
HIGH POINT STA. 16+50.00 EL. = 87.35
S-902
ROAD N
86.53 86.52 86.91 86.91 86.06 86.06 87.11 87.11 86.85 86.85
HIGH POINT STA. 11+50.00 EL. = 87.15
28 L.F. ~ 18" HP STORM PP
S-901
0.92 Ac±
126 L.F. ~ 18" HP STORM PP 20' DRAINAGE ACCESS EASEMENT
10' UTILITY ESM'T (TYP.)
0.68 Ac±
LOW POINT STA. 18+40.00 EL. = 86.65
29 L.F. ~ 15" RCP
82 L.F. ~ 15" HP STORM PP
S-1003
S-1002
29 L.F. ~ 15" HP STORM PP
S-1001
50 L.F. ~ 15" HP STORM PP
326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353
0.23 Ac±
0.19 Ac±
S-33
TOP OF BANK
NORMAL WATER LEVEL
1.41 Ac±
GRADE BREAK
S-32
MIN. BOTTOM
MAX. BOTTOM
SMF-09 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
79 L.F. ~ 30" HP STORM PP
104 L.F. ~ 30" HP STORM PP
1.56 Ac±
S-34
TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
S-1000
MIN. BOTTOM
MAX. BOTTOM
SMF-10 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SJRWMD JURISDICTIONAL WETLANDS

STORMWATER MANAGEMENT FACILITY ~ SMF-08
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.06
DHW (25 YR) EL.= 84.64
DHW (10 YR) EL.=84.34
DHW (MEAN) EL.= 83.86

STORMWATER MANAGEMENT FACILITY ~ SMF-09
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.35
DHW (25 YR) EL.= 84.71
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 83.86

STORMWATER MANAGEMENT FACILITY ~ SMF-10
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.39
DHW (25 YR) EL.= 84.73
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 83.86

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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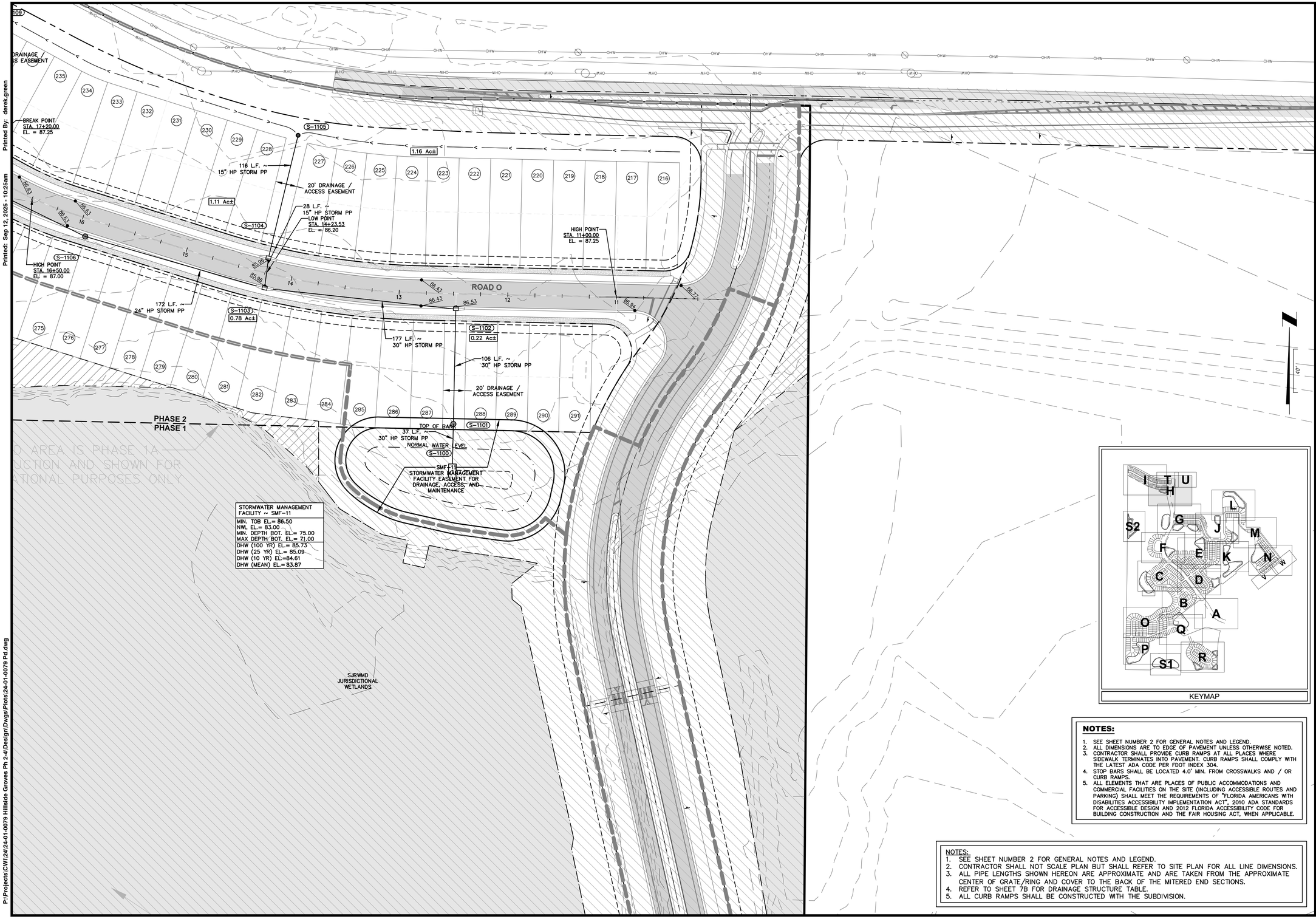
Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7G



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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Designed:	JEW
Drawn:	DCG
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O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7H

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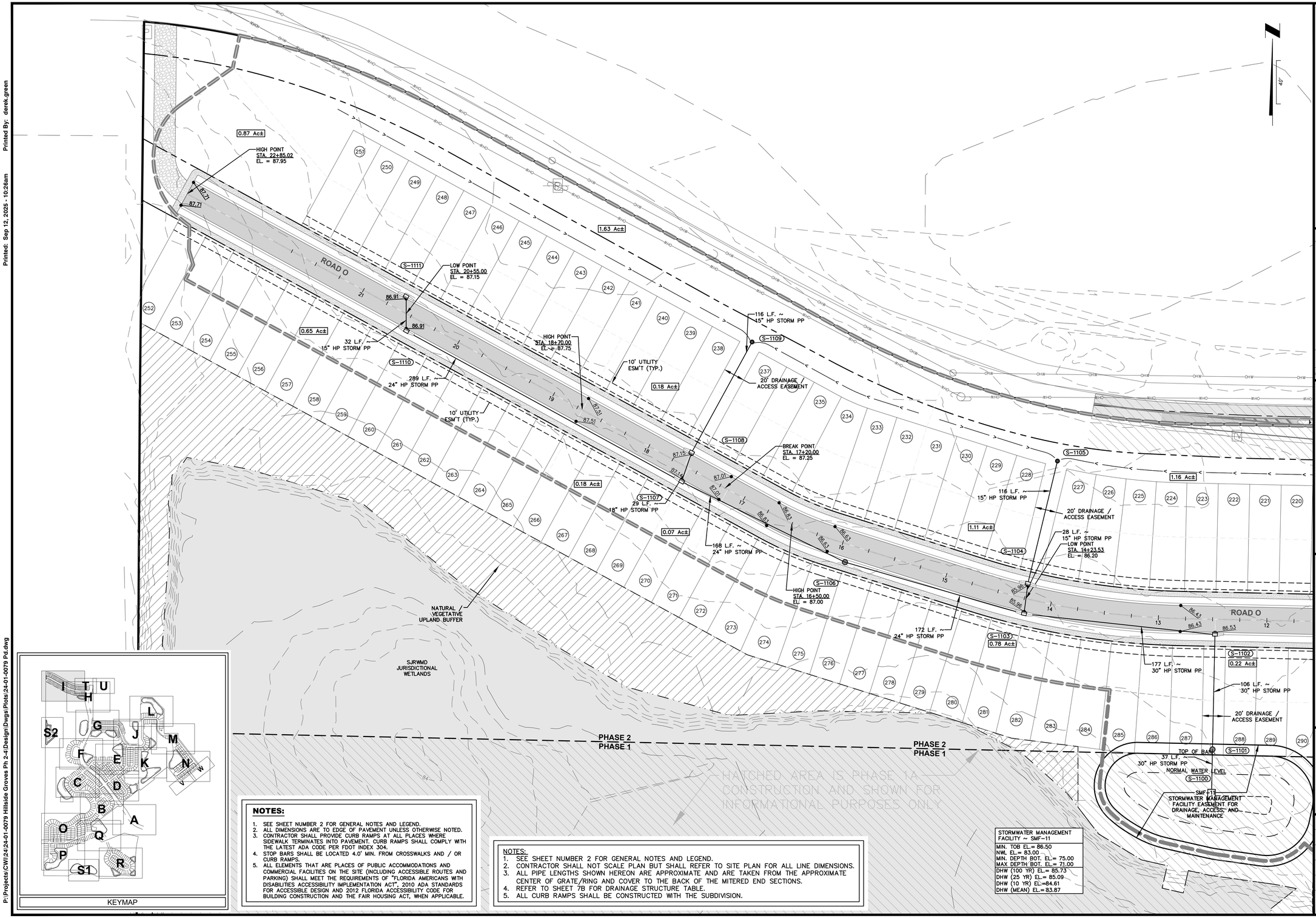

KEYMAP

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STORMWATER MANAGEMENT FACILITY ~ SMF-11
MIN. TOB EL.= 86.50
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX. DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.73
DHW (25 YR) EL.= 85.09
DHW (10 YR) EL.=84.61
DHW (MEAN) EL.= 83.87

CW PRIME EV

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	
24-01-0079	
Designed:	Drawn:
JEW	DCG
Checked:	O.C.:
JEW	RCW
Date:	
APR 2025	
Scale:	
1" = 40'	

Sheet 7I

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STORMWATER MANAGEMENT FACILITY ~ SMF-12
MIN. TOB EL.= 86.00
NWL EL.= 84.00
MIN. DEPTH BOT. EL.= 76.00
MAX DEPTH BOT. EL.= 72.00
DHW (100 YR) EL.= 84.71
DHW (25 YR) EL.= 84.53
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 84.18

STORMWATER MANAGEMENT FACILITY ~ SMF-06
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.25
DHW (25 YR) EL.= 82.77
DHW (10 YR) EL.=82.45
DHW (MEAN) EL.= 82.04

KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
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A			
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PAVING AND DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

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JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: APR 2025	
Scale: 1" = 40'	
Sheet 7J	

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KEYMAP

STORMWATER MANAGEMENT FACILITY ~ SMF-05
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX. DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.16
DHW (25 YR) EL.= 82.74
DHW (10 YR) EL.=82.44
DHW (MEAN) EL.= 82.04

STORMWATER MANAGEMENT FACILITY ~ SMF-03
MIN. TOB EL.= 85.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX. DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 85.23
DHW (25 YR) EL.= 84.34
DHW (10 YR) EL.=83.68
DHW (MEAN) EL.= 82.98

HATCHED AREA IS PHASE 3 CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

PHASE 3
PHASE 1A

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7K

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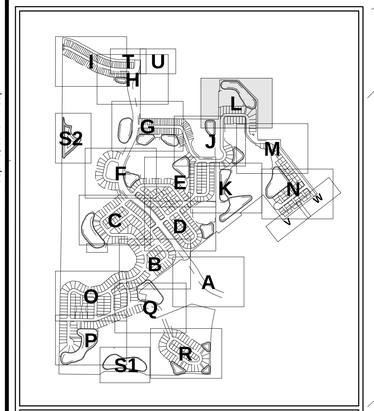

KEYMAP

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STORMWATER MANAGEMENT FACILITY ~ SMF-13
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 82.86
DHW (25 YR) EL.= 82.44
DHW (10 YR) EL.=82.19
DHW (MEAN) EL.= 81.89

TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
MIN. BOTTOM
MAX. BOTTOM
3.47 Ac±
SMF-13 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
SJRWMD JURISDICTIONAL WETLANDS
NATURAL VEGETATIVE UPLAND BUFFER
EXISTING POWER POLE
STING OWER POLE
ZONE A
ZONE X
40'
S-1300
32 L.F. ~ 24" HP. STORM PP
S-1301
101 L.F. ~ 24" HP STORM PP
S-50
20' DRAINAGE ACCESS EASEMENT
134 L.F. ~ 24" HP STORM PP
S-49
0.72 Ac±
10' UTILITY ESM'T (TYP.)
S-1303
33 L.F. ~ 15" HP STORM PP
154 L.F. ~ 15" HP STORM PP
S-1302
82 L.F. ~ 18" HP STORM PP
ROAD J
0.47 Ac±
S-1305
LOW POINT STA. 24+55.00 EL. = 86.10
0.70 Ac±
S-1304
BREAK POINT STA. 26+25.00 EL. = 87.30
HIGH POINT STA. 27+00.00 EL. = 87.70
378 L.F. ~ 24" HP STORM PP
258 L.F. ~ 18" HP STORM PP
0.41 Ac±
HIGH POINT STA. 21+75.00 EL. = 87.10
23 L.F. ~ 15" HP STORM PP
34 L.F. ~ 15" HP STORM PP
S-43
S-44
S-45
SMF-12 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
1.37 Ac±

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
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A			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
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Checked: JEW	O.C.: RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7L

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40'

KEYMAP

NATURAL VEGETATIVE UPLAND BUFFER

0.41 Ac±

258 L.F. ~ 18" HP STORM PP

10' UTILITY ESM'T (TYP.)

1.58 Ac±

S-1306

28 L.F. ~ 15" HP STORM PP

S-1307

LOW POINT STA 29+25.00 EL. = 86.20

ROAD J

193 L.F. ~ 24" HP STORM PP

10' UTILITY ESM'T (TYP.)

S-48

HIGH POINT STA 33+00.00 EL. = 87.70

0.25 Ac±

S-47

41 L.F. ~ 24" RCP

S-46

S-79

67 L.F. ~ 30" RCP

S-1402

S-80

LOW POINT STA 35+55.00 EL. = 86.80

152 L.F. ~ 30" RCP

S-1403

28 L.F. ~ 15" HP STORM PP

171 L.F. ~ 15" HP STORM PP

S-81

0.64 Ac±

S-1401

86 L.F. ~ 15" HP STORM PP

S-1400

0.13 Ac±

S-1405

S-1404

116 L.F. ~ 30" HP STORM PP

0.08 Ac±

S-1406

140 L.F. ~ 30" HP STORM PP

0.01 Ac±

S-53

STORMWATER MANAGEMENT FACILITY ~ SMF-06

MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.25
DHW (25 YR) EL.= 82.77
DHW (10 YR) EL.=82.45
DHW (MEAN) EL.= 82.04

STORMWATER MANAGEMENT FACILITY ~ SMF-14

MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 84.51
DHW (25 YR) EL.= 83.79
DHW (10 YR) EL.=83.28
DHW (MEAN) EL.= 82.51

SMF-14 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

NORMAL WATER LEVEL

TOP OF BANK

GRADE BREAK

MIN. BOTTOM

MAX. BOTTOM

2.51 Ac±

SJRWMD JURISDICTIONAL WETLANDS

SMF-06 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079
Designed: JEW
Drawn: DCG
Checked: JEW
O.C.: RCW
Date: APR 2025
Scale: 1" = 40'
Sheet 7M

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4. REFER TO SHEET 7B FOR DRAINAGE STRUCTURE TABLE.
5. ALL CURB RAMPS SHALL BE CONSTRUCTED WITH THE SUBDIVISION.

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SMF-14 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
SJRWMD JURISDICTIONAL WETLANDS
ROAD Q
ROAD J
ROAD R
116 L.F. ~ 30" HP STORM PP
140 L.F. ~ 30" HP STORM PP
299 L.F. ~ 18" HP STORM PP
279 L.F. ~ 24" HP STORM PP
36 L.F. 24" HP STORM PP
214 L.F. ~ 24" HP STORM PP
250 L.F. ~ 24" HP STORM PP
176 L.F. ~ 15" HP STORM PP
89 L.F. ~ 15" RCP
28 L.F. ~ 15" HP STORM PP
30 L.F. ~ 15" HP STORM PP
32 L.F. ~ 30" RCP
123 L.F. ~ 30" RCP
2.51 Ac±
0.08 Ac±
0.01 Ac±
0.15 Ac±
0.80 Ac±
0.30 Ac±
1.75 Ac±
0.60 Ac±
0.11 Ac±
0.23 Ac±
1.50 Ac±
2.38 Ac±
S-51 S-52 S-53 S-1406 S-1407 S-1408 S-1409 S-1410 S-1411 S-1412 S-1413 S-1414 S-2101 S-2102
10' UTILITY ESM'T (TYP.)
BREAK POINT STA. 10+12.00 EL. = 90.46
HIGH POINT STA. 41+02.23 ROAD J STA. 10+00.00 ROAD Q EL. = 90.70
BREAK POINT STA. 43+82.23 ROAD J STA. 10+00.00 ROAD R EL. = 89.70
BREAK POINT STA. 10+12.00 EL. = 89.46
LOW POINT STA. 12+85.00 EL. = 89.20
BREAK POINT STA. 13+07.00 EL. = 89.30
HIGH POINT STA. 13+95.33 EL. = 90.65
LOW POINT STA. 14+90.00 EL. = 87.75
BREAK POINT STA. 15+17.00 EL. = 87.85
HIGH POINT STA. 16+05.33 EL. = 89.20
BREAK POINT STA. 45+50.00 EL. = 88.45
2' PAVED SHOULDER & 4' LAWN SHOULDER @ 6.00% SLOPE
SWALE WITH A 6:1 FRONT SLOPE AND A 3' FLAT BOTTOM
MATCHLINE SEE HYDROMOD
FOM 88.00
40'

KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
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3			
4			
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6			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7N

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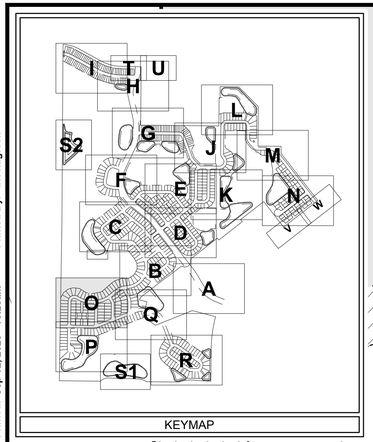

KEYMAP

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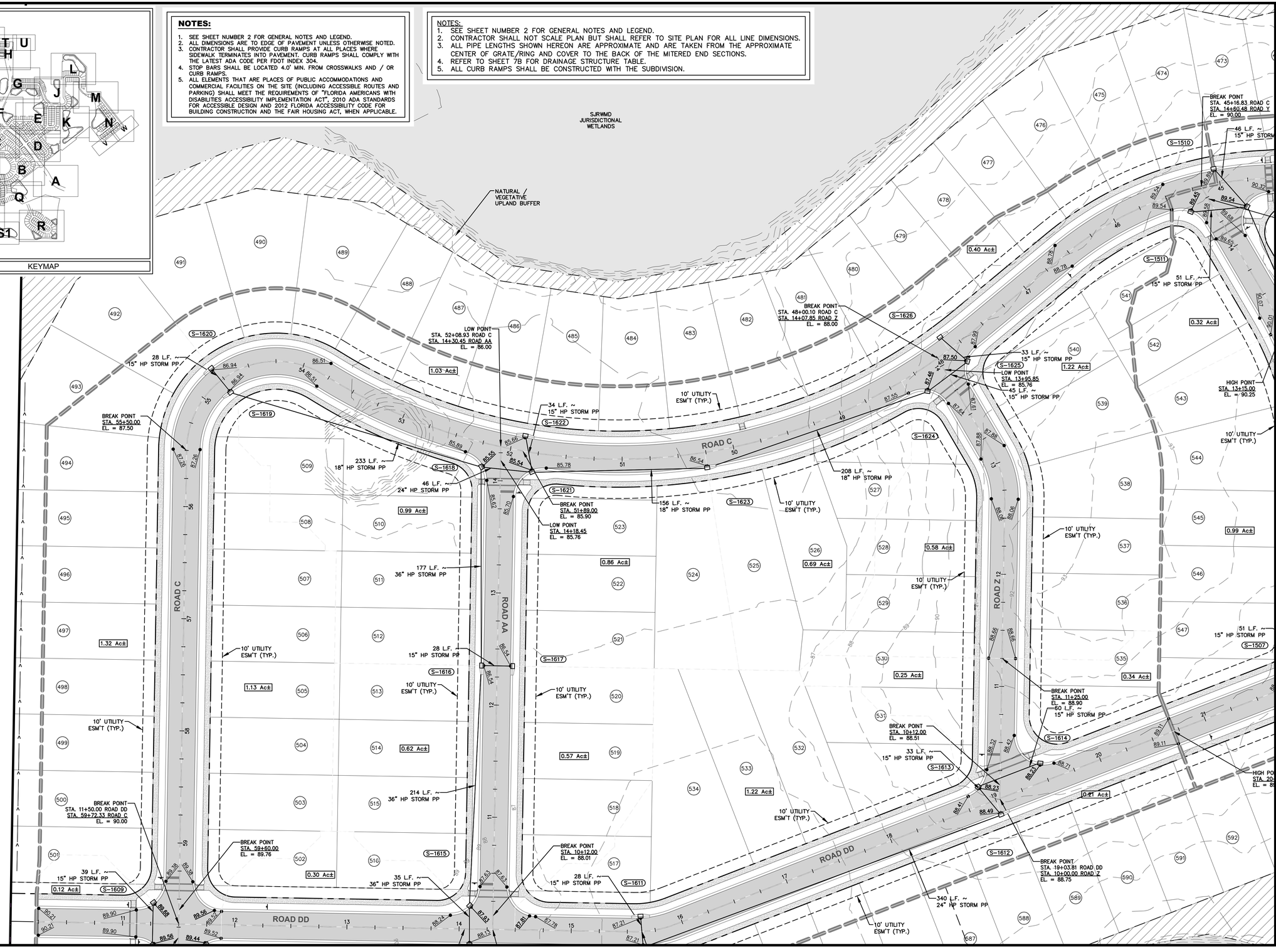

CONNELLY & WICKER, LLC
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PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	Q.C.: RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7O

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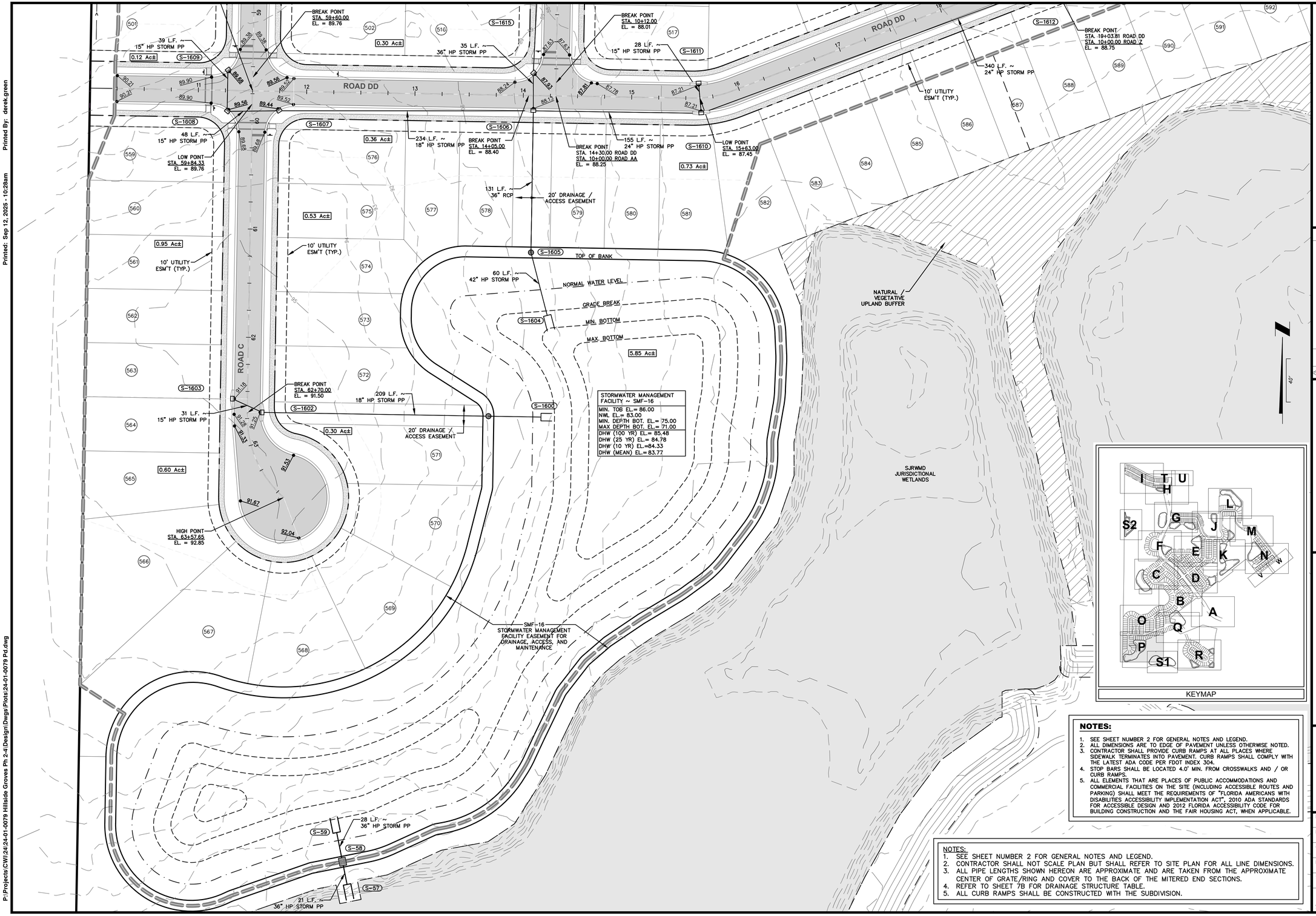

STORMWATER MANAGEMENT FACILITY ~ SMF-16
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.48
DHW (25 YR) EL.= 84.78
DHW (10 YR) EL.=84.33
DHW (MEAN) EL.= 83.77

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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-285-3069 FAX: 904-285-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
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4			
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6			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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NATURAL / VEGETATIVE UPLAND BUFFER

SJRWMD JURISDICTIONAL WETLANDS

STORMWATER MANAGEMENT FACILITY ~ SMF-17
MIN. TOB EL.= 85.50
NWL EL.= 82.00
MIN. DEPTH BOT. EL.= 74.00
MAX DEPTH BOT. EL.= 70.00
DHW (100 YR) EL.= 84.67
DHW (25 YR) EL.= 84.18
DHW (10 YR) EL.=83.64
DHW (MEAN) EL.= 82.81

LOW POINT
STA. 32+93.83
EL. = 85.66
S-1907

38 L.F. ~
15" HP STORM PP
S-1905

34 L.F. ~
15" HP STORM PP

1.01 Ac±

183 L.F. ~
24" HP STORM PP
0.61 Ac±

S-1908

HIGH POINT
STA. 33+05.83 ROAD DD
STA. 10+00.00 ROAD X
EL. = 85.90

ROAD X

10' UTILITY ESM'T (TYP.)

1.30 Ac±

S-1904

0.05 Ac±

NATURAL / VEGETATIVE UPLAND BUFFER

85 L.F. ~
24" HP STORM PP

HIGH POINT
STA. 23+75.00
EL. = 87.60

10' UTILITY ESM'T (TYP.)

S-1903

0.02 Ac±

0.23 Ac±

190 L.F. ~
24" HP STORM PP

S-1901

68 L.F. ~
24" RCP

S-1902

29 L.F. ~
15" HP STORM PP

LOW POINT
STA. 22+15.00
EL. = 87.00

1.31 Ac±

10' UTILITY ESM'T (TYP.)

HIGH POINT
STA. 13+50.00
EL. = 87.75

0.84 Ac±

20' DRAINAGE / ACCESS EASEMENT

0.89 Ac±

LOW POINT
STA. 15+56.00
EL. = 87.00

30 L.F. ~
15" HP STORM PP

S-1702

HIGH POINT
STA. 19+70.00
EL. = 87.90

0.38 Ac±

S-1703

40 L.F. ~
15" HP STORM PP

S-1900

TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
MIN. BOTTOM

SMF-19
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

1.06 Ac±

STORMWATER MANAGEMENT FACILITY ~ SMF-19
MIN. TOB EL.= 85.50
NWL EL.= 82.00
MIN. DEPTH BOT. EL.= 74.00
MAX DEPTH BOT. EL.= 70.00
DHW (100 YR) EL.= 85.28
DHW (25 YR) EL.= 84.31
DHW (10 YR) EL.=83.66
DHW (MEAN) EL.= 82.82

S-69

0.24 Ac±

S-68

30" HP STORM PP
134 L.F. ~
30" HP STORM PP

41 L.F. ~

10' UTILITY ESM'T (TYP.)

ROAD W

S-67

LOW POINT
STA. 18+59.16 ROAD X
STA. 10+89.55 ROAD W
EL. = 87.50

BREAK POINT
STA. 10+77.55
EL. = 87.26

10' UTILITY ESM'T (TYP.)

S-66

107 L.F. ~
30" HP STORM PP

0.58 Ac±

S-65

82 L.F. ~
30" HP STORM PP

0.68 Ac±

HIGH POINT
STA. 17+30.00
EL. = 87.95

130 L.F. ~
30" HP STORM PP

S-64

45 L.F. ~
15" HP STORM PP

S-1701

S-63

S-62

S-61

0.59 Ac±

SMF-17
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

TOP OF BANK
NORMAL WATER LEVEL
BOTTOM

S-1700

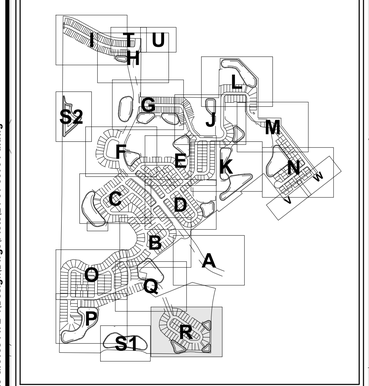
151 L.F. ~
30" HP STORM PP

28 L.F. ~
36" HP STORM PP

S-60

18 L.F. ~
36" HP STORM PP

KEYMAP



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40'

CONNELLY & WICKER, LLC
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PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
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PAVING AND DRAINAGE PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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EXISTING TRAIL ROAD

PROPERTY BOUNDARY

SJRWMD JURISDICTIONAL WETLANDS

NATURAL/ VEGETATIVE UPLAND BUFFER

SJRWMD JURISDICTIONAL WETLANDS

NOTES:

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2. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH THE LATEST ADA CODE PER FDOT INDEX 304.
4. STOP BARS SHALL BE LOCATED 4.0' MIN. FROM CROSSWALKS AND / OR CURB RAMPS.
5. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES ACCESSIBILITY IMPLEMENTATION ACT", 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2012 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHEN APPLICABLE.

40'

P-09 (01)

P-13

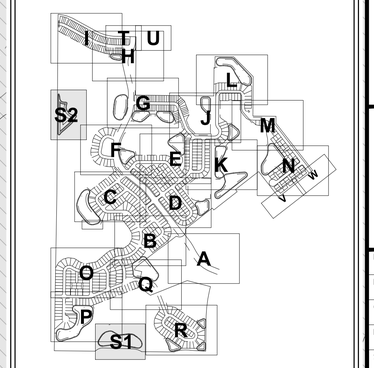
P-14

TRACT U (OPEN SPACE, DRAINAGE)

LANDSCAPE / OPEN SPACE / DRAINAGE TRACT

NOTES:

1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL NOT SCALE PLAN BUT SHALL REFER TO SITE PLAN FOR ALL LINE DIMENSIONS.
3. ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE/RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
4. REFER TO SHEET 7B FOR DRAINAGE STRUCTURE TABLE.
5. ALL CURB RAMPS SHALL BE CONSTRUCTED WITH THE SUBDIVISION.



KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
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6			

PAVING AND DRAINAGE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	7S

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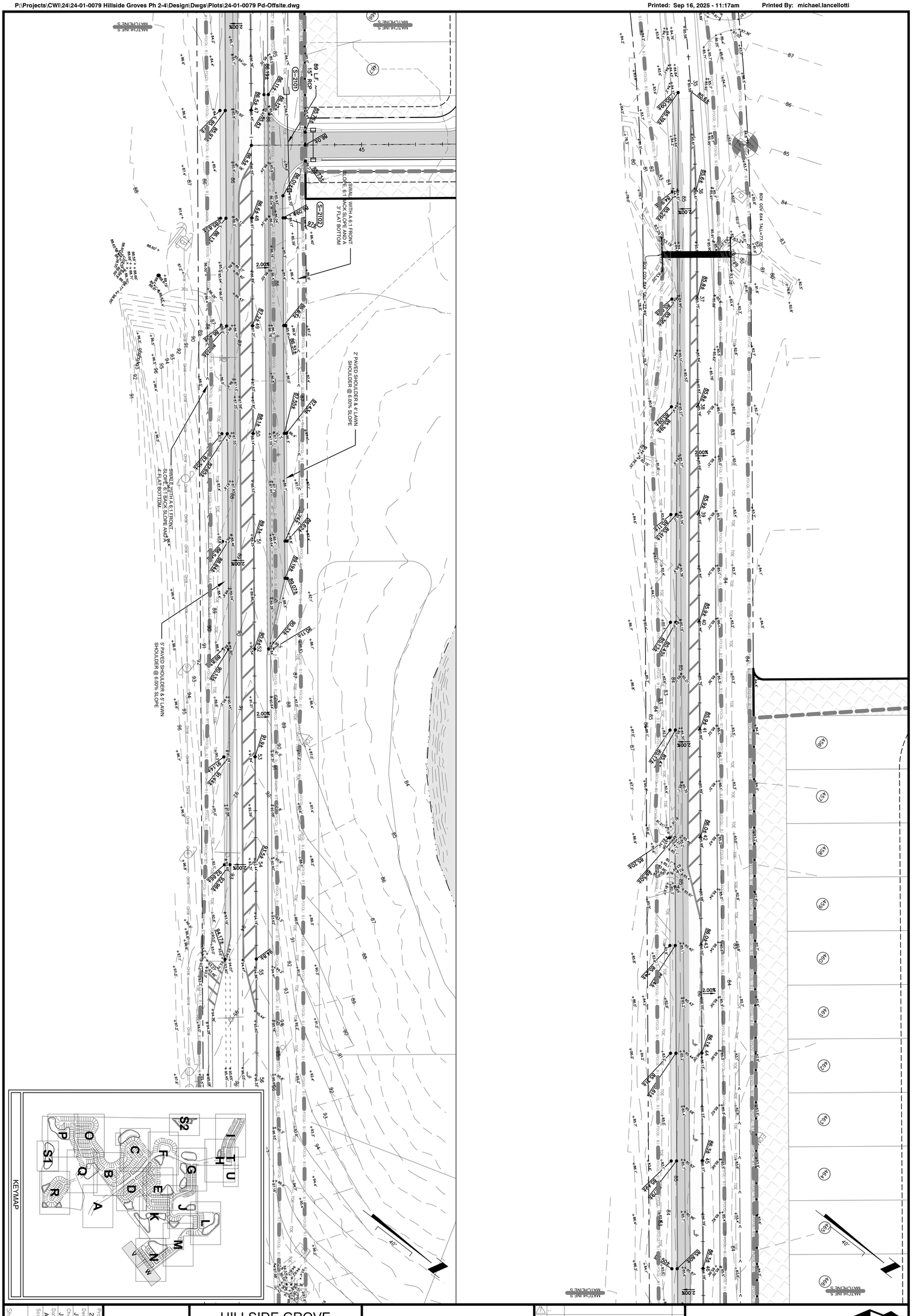

Sheet: 7V	Project No.: 24-01-0079	JUSTIN ELLERY WILLIAMS P.E. NUMBER: 69260 Reg. Engineer	HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS PREPARED FOR MERITAGE HOMES	SR-19 PAVING AND DRAINAGE PLAN
Scale: 1" = 40'	Drawn: DCG			
Date: APR 2025	Checked: JEW			
	O.C.: RCW			
	Designed: JEW			

No.	Date	Revision	By
1			
2			
3			
4			
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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

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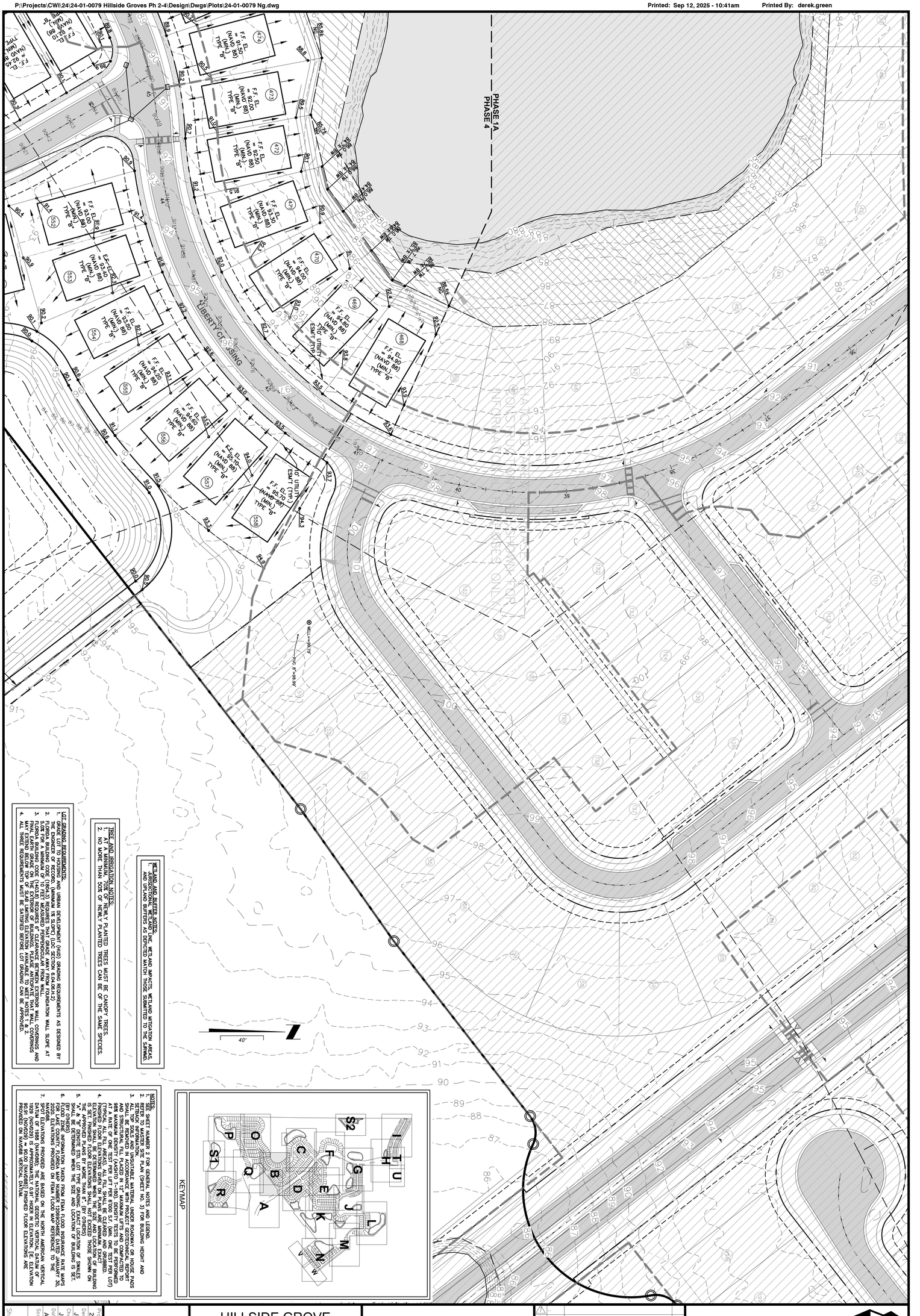
PHASE 1A
PHASE 4
LIBERTY CROSSING
F.F. EL. 91.50 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 92.50 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 93.50 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 94.60 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 95.80 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 96.80 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 97.80 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 98.80 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL. 99.80 (NAVD 88) (MIN.) TYPE 'B'
F.F. EL.

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P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 Ng.dwg

KEYMAP

LOT GRADING REQUIREMENTS:
1. GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD. (MINIMUM 1% SLOPE) (LDC SECTION 6.04.06.H.2)
2. FLORIDA BUILDING CODE (1804.3) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT 5.0% FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM WALL.
3. FLORIDA BUILDING CODE (1403.6) REQUIRES 6" CLEARANCE BETWEEN EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WALL COVERINGS MAY EXTEND BELOW TOP OF SLAB LIMITING ELEVATION AVAILABLE TO MEET NOTES 1 & 2.
4. ALL THREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK INFORMATION.
3. ALL TOP SOILS AND UNSUITABLE MATERIAL UNDER ROADWAY OR HOUSE PADS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND STRUCTURAL FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (AASHTO T-180). DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 5'000 S.F. (MIN. ONE TEST PER LOT) (TYPICAL ALL FILL AREAS). ALL FILL SHALL BE CLEARED AND GRUBBED.
4. FINISHED FLOOR ELEVATIONS GIVEN ON PLANS ARE MINIMUM. EXACT ELEVATION SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. FINISHED FLOOR ELEVATIONS SHALL NOT EXCEED THOSE SHOWN ON THE APPROVED PLANS BY MORE THAN 6". (BY OTHERS)
5. "A" & "B" DENOTE STD. LOT TYPE GRADING. EXACT LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. (BY OTHERS)
6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS FOR LAKE COUNTY, FLORIDA MAP NUMBER 12069C0485E DATED JANUARY 30, 2020. ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE NAVD88.
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS APPROXIMATELY 0.91' HIGER IN ELEVATION. [IE. ELEVATION 90.91 (NGVD29) = 90.00 (NAVD88)] FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

PHASE 1B

STORMWATER MANAGEMENT FACILITY ~ SMF-07
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.89
DHW (25 YR) EL.= 83.03
DHW (10 YR) EL.=82.50
DHW (MEAN) EL.= 82.05
STORMWATER FACILITY DRAINAGE, ACCESS, AND MAINTENANCE

20' DRAINAGE ACCESS EASEMENT

TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
TOW MIN.
BOTTOM VAL.

ROAD N
ROAD J
ROAD P
HARVESTER STREET

10' UTILITY ESM'T (TYP.)

PHASE 2
PHASE 1B

HATCHED AREAS PHASE 1B CONSTRUCTION LINES SHOWN FOR INFORMATIONAL PURPOSES ONLY

WETLAND AND BUFFER NOTES:
1. JURISDICTIONAL WETLAND LINE, WETLAND IMPACTS, WETLAND MITIGATION AREAS, AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

TREE AND IRRIGATION NOTES:
1. AT A MINIMUM, 70% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

PRIME

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-265-0031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

NEIGHBORHOOD GRADING PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	8E

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HED AREA IN PHASE 1A
TRUCTION AND SHOWN
NFORMATIONAL PURPOSES

SJRWMD JURISDICTIONAL WETLANDS

LOT GRADING REQUIREMENTS:
1. GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD. (MINIMUM 1% SLOPE) (LDC SECTION 6.04.06.H.2)
2. FLORIDA BUILDING CODE (1804.3) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT 5.0% FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM WALL.
3. FLORIDA BUILDING CODE (1403.8) REQUIRES 6" CLEARANCE BETWEEN EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WALL COVERINGS MAY EXTEND BELOW TOP OF SLAB LIMITING ELEVATION AVAILABLE TO MEET NOTES 1 & 2.
4. ALL THREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.

TREE AND IRRIGATION NOTES:
1. AT A MINIMUM, 70% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

WETLAND AND BUFFER NOTES:
1. JURISDICTIONAL WETLAND LINE, WETLAND IMPACTS, WETLAND MITIGATION AREAS, AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK INFORMATION.
3. ALL TOP SOILS AND UNSUITABLE MATERIAL UNDER ROADWAY OR HOUSE PADS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND STRUCTURAL FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (AASHTO T-180). DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 6'000 S.F. (MIN. ONE TEST PER LOT) (TYPICAL ALL FILL AREAS). ALL FILL SHALL BE CLEARED AND GRUBBED.
4. FINISHED FLOOR ELEVATIONS GIVEN ON PLANS ARE MINIMUM. EXACT ELEVATION SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. FINISHED FLOOR ELEVATIONS SHALL NOT EXCEED THOSE SHOWN ON THE APPROVED PLANS BY MORE THAN 6". (BY OTHERS)
5. "A" & "B" DENOTE STD. LOT TYPE GRADING. EXACT LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. (BY OTHERS)
6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS FOR LAKE COUNTY, FLORIDA MAP NUMBER 12069C0485E DATED JANUARY 30, 2020. ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE NAVD88.
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS APPROXIMATELY 0.91' HIGER IN ELEVATION. [IE. ELEVATION 90.91 (NGVD29) ≈ 90.00 (NAVD88)] FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

KEYMAP

40'

20' DRAINAGE ACCESS EASEMENT

ROAD N

10' UTILITY ESM'T (TYP.)

TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
MIN. BOTTOM
MAX. BOTTOM

SMF-09
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SMF-10
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

STORMWATER MANAGEMENT FACILITY ~ SMF-08
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.06
DHW (25 YR) EL.= 84.64
DHW (10 YR) EL.=84.34
DHW (MEAN) EL.= 83.86

STORMWATER MANAGEMENT FACILITY ~ SMF-09
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.35
DHW (25 YR) EL.= 84.71
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 83.86

STORMWATER MANAGEMENT FACILITY ~ SMF-10
MIN. TOB EL.= 86.00
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.39
DHW (25 YR) EL.= 84.73
DHW (10 YR) EL.=84.37
DHW (MEAN) EL.= 83.86

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

NEIGHBORHOOD GRADING PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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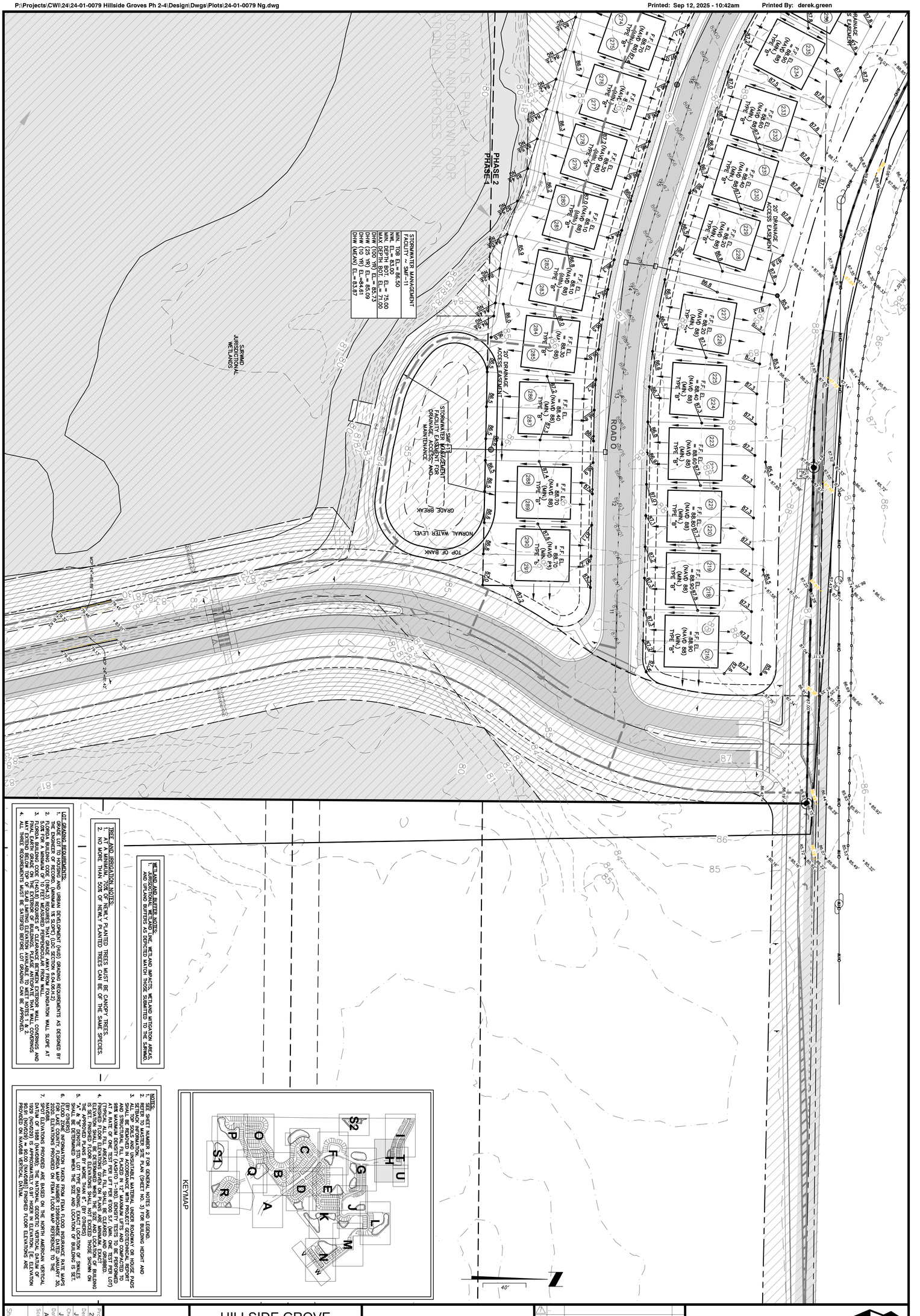
Project No.:	24-01-0079
Designed:	JEW
Drawn:	DGG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	8G



LOT GRADING REQUIREMENTS:
1. ALL LOTS SHALL MEET THE MINIMUM (DEVELOPMENT (HSE)) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD. (MINIMUM 1% SLOPE) (LDC SECTION 6.04.05.H.2)
2. SLOPE FOR A MINIMUM OF 10 FEET, MEASURED PERPENDICULAR FROM WALL. (LDC SECTION 6.04.05.H.3) EXCEPTION: WHERE RETAINING WALL SLOPE AT FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS, PLEASE ANTICIPATE THAT WALL COVERINGS MAY EXTEND BELOW TOP OF SLAB. MINIMUM ELEVATION AVAILABLE TO ARE TO BE VERIFIED BY ARCHITECT.
4. ALL THREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.

TREE AND VEGETATION NOTES:
1. A MINIMUM OF 75% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

WETLAND AND BUFFER NOTES:
1. ALL WETLAND LINES, THE WETLAND IMPACTS, WETLAND MITIGATION AREAS, AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

NOTES:
1. LOT NUMBERS AND STREET NAMES ARE PRELIMINARY AND SUBJECT TO CHANGE.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK INFORMATION.
3. UNSUITABLE MATERIAL UNDER ROADWAY OR HOUSE PADS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. MINIMUM DENSITY (AASHTO T-180) DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 4,000 S.F. (MIN. ONE TEST PER LOT) AND MAXIMUM DENSITY (AASHTO T-180) DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 10,000 S.F. (MIN. ONE TEST PER LOT)
5. FINISHED FLOOR ELEVATIONS GIVEN ON PLANS ARE MINIMUM EXACT ELEVATIONS. FINISHED FLOOR ELEVATIONS SHALL NOT BE LOWER THAN THOSE SHOWN ON PLANS. FINISHED FLOOR ELEVATIONS SHALL NOT EXCEED THOSE SHOWN BY MORE THAN 1.0'.
6. "A" & "B" DENOTE STD. LOT TYPE. GRADING EXACT LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET.
7. FLOOD ZONE INFORMATION TAKEN FROM ITEM: FLOOD INSURANCE RATE MAPS 12109C0435F, EFFECTIVE DATE: DECEMBER 30, 2020. ELEVATIONS PROVIDED ON ITEM: FLOOD MAP REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
8. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE APPROXIMATELY 0.91' HIGHER THAN ELEVATION 1929 (NGVD29) (i.e. 90.00 (NAVD88) FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

Sheet	Project No.	Drawn	Checked	Date	Scale
8H	24-01-0079	DCG	JEW	APR 2025	1" = 40'

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

NEIGHBORHOOD GRADING PLAN

No.	Date	Revision	By
1			
2			
3			
4			
5			
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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

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LOT GRADING REQUIREMENTS:
1. GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD. (MINIMUM 1% SLOPE) (LDC SECTION 6.04.06.H.2)
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TREE AND IRRIGATION NOTES:
1. AT A MINIMUM, 70% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

WETLAND AND BUFFER NOTES:
1. JURISDICTIONAL WETLAND LINE, WETLAND IMPACTS, WETLAND MITIGATION AREAS, AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK INFORMATION.
3. ALL TOP SOILS AND UNSUITABLE MATERIAL UNDER ROADWAY OR HOUSE PADS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND STRUCTURAL FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (AASHTO T-180). DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 6'000 S.F. (MIN. ONE TEST PER LOT) (TYPICAL ALL FILL AREAS). ALL FILL SHALL BE CLEARED AND GRUBBED.
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6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS FOR LAKE COUNTY, FLORIDA MAP NUMBER 12069C0485E DATED JANUARY 30, 2020. ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE NAVD88.
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS APPROXIMATELY 0.91' HIGER IN ELEVATION. [IE. ELEVATION 90.91 (NGVD29) ≈ 90.00 (NAVD88)] FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

KEYMAP

ROAD C

ROAD D

ROAD O

20' DRAINAGE ACCESS EASEMENT

10' UTILITY ESM'T (TYP.)

NATURAL VEGETATIVE UPLAND BUFFER

SJRWMD JURISDICTIONAL WETLANDS

PHASE 2
PHASE 1

HATCHED AREA IS PHASE 1A CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

SMF-11 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

NORMAL WATER LEVEL

GRADE SEE PLAN

STORMWATER MANAGEMENT FACILITY ~ SMF-11
MIN. TOB EL.= 86.50
NWL EL.= 83.00
MIN. DEPTH BOT. EL.= 75.00
MAX DEPTH BOT. EL.= 71.00
DHW (100 YR) EL.= 85.73
DHW (25 YR) EL.= 85.09
DHW (10 YR) EL.=84.61
DHW (MEAN) EL.= 83.87

PRIME

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3068 FAX: 904-268-3031 FLORIDA REGISTRY 3650

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NEIGHBORHOOD GRADING PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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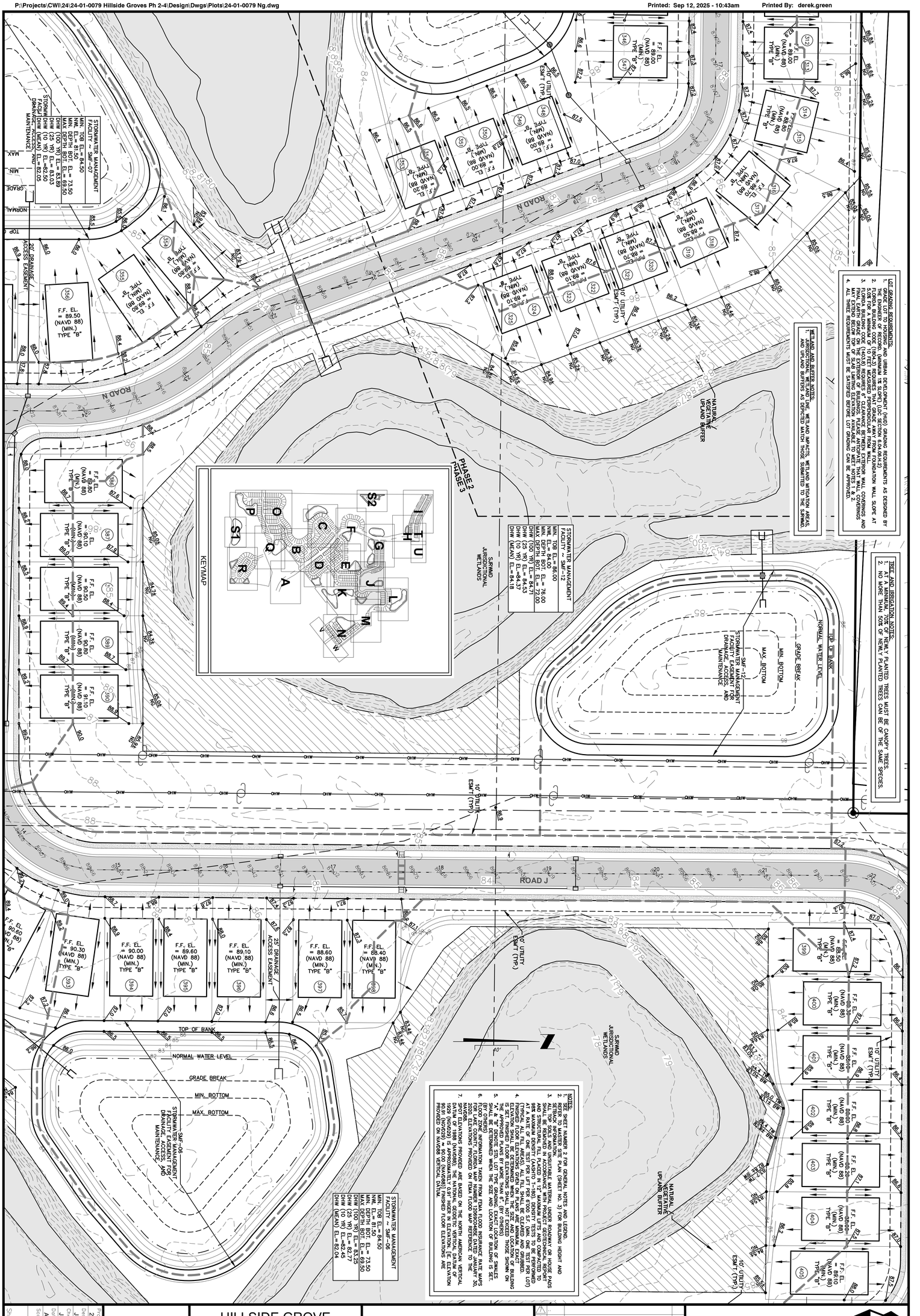
Scale:	1" = 40'
Sheet	8I


LOT GRADING REQUIREMENTS:
1. LOT GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY A FLORIDA REGISTERED ENGINEER.
2. FLORIDA BUILDING CODE (FBC)(R-3) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT SLOPE FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WILL GOVERNING BUILDING DEPARTMENT WILL ENFORCE THIS REQUIREMENT.
4. ALL THREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.
WETLAND AND BUFFER NOTES:
1. THERE ARE NO WETLAND IMPACTS. WETLAND MITIGATION AREAS AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.
TREE AND IRRIGATION NOTES:
1. AT A MINIMUM 70% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.
NOTES:
1. SEE SHEET 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK REQUIREMENTS.
3. ALL TOPSOIL AND UNSUITABLE MATERIAL UNDER ROADWAY OR HOUSE PADS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT RECOMMENDATIONS.
4. ALL FILL SHALL BE PLACED IN MAXIMUM 12" LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (AASHTO T-180). DENSITY TESTS TO BE PERFORMED BY A FLORIDA REGISTERED ENGINEER (OR HIS AUTHORIZED AGENT).
5. ELEVATED FLOOR ELEVATIONS GIVEN ARE MINIMUM EXACT BUILDING ELEVATIONS. ALL FILL SHALL BE CLEARED AND GROOVED (TYPICAL ALL FILL AREAS). ALL SMALL BE CLEARED AND GROOVED. ELEVATED FLOOR ELEVATIONS GIVEN ARE MINIMUM EXACT BUILDING IS SET. FINISHED FLOOR ELEVATIONS SHALL NOT EXCEED THOSE SHOWN ON THE APPROVED PLANS.
6. "A" & "B" DENOTE STD. LOT TYPE GRADING. EXACT LOCATION OF SWALES (BY OTHERS) TO BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET.
7. FLOOD ZONE INFORMATION WAS FROM FEMA FIRM PANEL 0245F, DATED 2020. ELEVATIONS PROVIDED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL 1929 (NGVD29) IS APPROXIMATELY 0.91' HIGHER IN ELEVATION. (E ELEVATION PROVIDED ON NAVD88 VS. NGVD29). FINISHED FLOOR ELEVATIONS ARE
STORMWATER MANAGEMENT FACILITY ~ SMF-07
MIN. TOB EL= 84.50
MIN. DEPTH BOT. EL= 73.50
MAX DEPTH BOT. EL= 69.50
DHW (100 YR) EL= 84.03
DHW (25 YR) EL= 83.03
DHW (10 YR) EL= 82.50
DHW (MEAN) EL= 82.05
STORMWATER MANAGEMENT FACILITY ~ SMF-12
MIN. TOB EL= 84.00
MIN. DEPTH BOT. EL= 76.00
MAX DEPTH BOT. EL= 72.00
DHW (100 YR) EL= 84.71
DHW (25 YR) EL= 84.53
DHW (10 YR) EL= 84.29
DHW (MEAN) EL= 84.17
STORMWATER MANAGEMENT FACILITY ~ SMF-06
MIN. TOB EL= 84.50
MIN. DEPTH BOT. EL= 73.50
MAX DEPTH BOT. EL= 69.50
DHW (100 YR) EL= 83.25
DHW (25 YR) EL= 82.77
DHW (10 YR) EL= 82.45
DHW (MEAN) EL= 82.04
STORMWATER MANAGEMENT FACILITY ~ SMF-10
MIN. TOB EL= 84.00
MIN. DEPTH BOT. EL= 76.00
MAX DEPTH BOT. EL= 72.00
DHW (100 YR) EL= 84.71
DHW (25 YR) EL= 84.53
DHW (10 YR) EL= 84.29
DHW (MEAN) EL= 84.17
SJRWMD JURISDICTIONAL WETLANDS
NATURAL VEGETATIVE UPLAND BUFFER
KEYMAP
PHASE 2
PHASE 3
ROAD N
ROAD J
TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
MIN. BOTTOM
MAX. BOTTOM
25' DRAINAGE ACCESS EASEMENT
10' UTILITY ESMT (TYP.)
F.F. EL. = 89.50 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 90.30 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.60 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.10 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 88.60 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 88.40 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.00 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.35 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.60 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.80 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 90.00 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 90.20 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.80 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.60 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.40 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.20 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. =

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P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 Ng.dwg

LOT GRADING REQUIREMENTS:
1. GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD. (MINIMUM 1% SLOPE) (LDC SECTION 6.04.06.H.2)
2. FLORIDA BUILDING CODE (1804.3) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT 5.0% FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM WALL.
3. FLORIDA BUILDING CODE (1403.8) REQUIRES 6" CLEARANCE BETWEEN EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WALL COVERINGS MAY EXTEND BELOW TOP OF SLAB LIMITING ELEVATION AVAILABLE TO MEET NOTES 1 & 2.
4. ALL THREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.

TREE AND IRRIGATION NOTES:
1. AT A MINIMUM, 70% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

WETLAND AND BUFFER NOTES:
1. JURISDICTIONAL WETLAND LINE, WETLAND IMPACTS, WETLAND MITIGATION AREAS, AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

KEYMAP

STORMWATER MANAGEMENT FACILITY ~ SMF-05
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 83.16
DHW (25 YR) EL.= 82.74
DHW (10 YR) EL.=82.44
DHW (MEAN) EL.= 82.04

STORMWATER MANAGEMENT FACILITY ~ SMF-03
MIN. TOB EL.= 85.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 85.23
DHW (25 YR) EL.= 84.34
DHW (10 YR) EL.=83.68
DHW (MEAN) EL.= 82.98

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK INFORMATION.
3. ALL TOP SOILS AND UNSUITABLE MATERIAL UNDER ROADWAY OR HOUSE PADS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND STRUCTURAL FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (AASHTO T-180). DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 6'000 S.F. (MIN. ONE TEST PER LOT) (TYPICAL ALL FILL AREAS). ALL FILL SHALL BE CLEARED AND GRUBBED.
4. FINISHED FLOOR ELEVATIONS GIVEN ON PLANS ARE MINIMUM. EXACT ELEVATION SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. FINISHED FLOOR ELEVATIONS SHALL NOT EXCEED THOSE SHOWN ON THE APPROVED PLANS BY MORE THAN 6". (BY OTHERS)
5. "A" & "B" DENOTE STD. LOT TYPE GRADING. EXACT LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. (BY OTHERS)
6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS FOR LAKE COUNTY, FLORIDA MAP NUMBER 12069C0485E DATED JANUARY 30, 2020. ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE NAVD88.
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS APPROXIMATELY 0.91' HIGER IN ELEVATION. [IE. ELEVATION 90.91 (NGVD29) = 90.00 (NAVD88)] FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

CW PRIME
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

NEIGHBORHOOD GRADING PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	8K

Printed: Sep 12, 2025 - 10:44am Printed By: derek.green

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LOT GRADING REQUIREMENTS:
1. GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD. (MINIMUM 1% SLOPE) (LDC SECTION 6.04.06.H.2)
2. FLORIDA BUILDING CODE (1804.3) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT 5.0% FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM WALL.
3. FLORIDA BUILDING CODE (1403.8) REQUIRES 6" CLEARANCE BETWEEN EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WALL COVERINGS MAY EXTEND BELOW TOP OF SLAB LIMITING ELEVATION AVAILABLE TO MEET NOTES 1 & 2.
4. ALL THREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.

TREE AND IRRIGATION NOTES:
1. AT A MINIMUM, 70% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

WETLAND AND BUFFER NOTES:
1. JURISDICTIONAL WETLAND LINE, WETLAND IMPACTS, WETLAND MITIGATION AREAS, AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

KEYMAP

TOP OF BANK
NORMAL WATER LEVEL
GRADE BREAK
MIN. BOTTOM
SJRWMD JURISDICTIONAL WETLANDS
NATURAL VEGETATIVE UPLAND BUFFER
SMF-13 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

STORMWATER MANAGEMENT FACILITY ~ SMF-13
MIN. TOB EL.= 84.50
NWL EL.= 81.50
MIN. DEPTH BOT. EL.= 73.50
MAX DEPTH BOT. EL.= 69.50
DHW (100 YR) EL.= 82.86
DHW (25 YR) EL.= 82.44
DHW (10 YR) EL.=82.19
DHW (MEAN) EL.= 81.89

406 F.F. EL. = 88.70 (NAVD 88) (MIN.) TYPE "B"
407 F.F. EL. = 88.70 (NAVD 88) (MIN.) TYPE "B"
408 F.F. EL. = 88.40 (NAVD 88) (MIN.) TYPE "B"
409 F.F. EL. = 88.20 (NAVD 88) (MIN.) TYPE "B"
410 F.F. EL. = 88.00 (NAVD 88) (MIN.) TYPE "B"
411 F.F. EL. = 88.10 (NAVD 88) (MIN.) TYPE "B"
412 F.F. EL. = 88.40 (NAVD 88) (MIN.) TYPE "B"
413 F.F. EL. = 88.40 (NAVD 88) (MIN.) TYPE "B"
414 F.F. EL. = 89.10 (NAVD 88) (MIN.) TYPE "B"
415 F.F. EL. = 90.80 (NAVD 88) (MIN.) TYPE "B"
416 F.F. EL. = 90.80 (NAVD 88) (MIN.) TYPE "A"
417 F.F. EL. = 90.00 (NAVD 88) (MIN.) TYPE "A"
418 F.F. EL. = 90.20 (NAVD 88) (MIN.) TYPE "A"
419 F.F. EL. = 89.85 (NAVD 88) (MIN.) TYPE "A"
399 F.F. EL. = 88.50 (NAVD 88) (MIN.) TYPE "B"
400 F.F. EL. = 88.30 (NAVD 88) (MIN.) TYPE "B"
401 F.F. EL. = 88.10 (NAVD 88) (MIN.) TYPE "B"
402 F.F. EL. = 88.00 (NAVD 88) (MIN.) TYPE "B"
403 F.F. EL. = 88.20 (NAVD 88) (MIN.) TYPE "B"
404 F.F. EL. = 88.00 (NAVD 88) (MIN.) TYPE "B"
405 F.F. EL. = 89.10 (NAVD 88) (MIN.) TYPE "B"

10' UTILITY ESM'T (TYP.)
20' DRAINAGE ACCESS EASEMENT
ROAD J
ROAD I

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK INFORMATION.
3. ALL TOP SOILS AND UNSUITABLE MATERIAL UNDER ROADWAY OR HOUSE PADS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND STRUCTURAL FILL PLACED IN 12" MAXIMUM LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY (AASHTO T-180). DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 6'000 S.F. (MIN. ONE TEST PER LOT) (TYPICAL ALL FILL AREAS). ALL FILL SHALL BE CLEARED AND GRUBBED.
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5. "A" & "B" DENOTE STD. LOT TYPE GRADING. EXACT LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. (BY OTHERS)
6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS FOR LAKE COUNTY, FLORIDA MAP NUMBER 12069C0485E DATED JANUARY 30, 2020. ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE NAVD88.
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS APPROXIMATELY 0.91' HIGER IN ELEVATION. [IE. ELEVATION 90.91 (NGVD29) ≈ 90.00 (NAVD88)] FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

SMF-12 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

40'

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

NEIGHBORHOOD GRADING PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	8L

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Printed: Sep 12, 2025 - 10:45am

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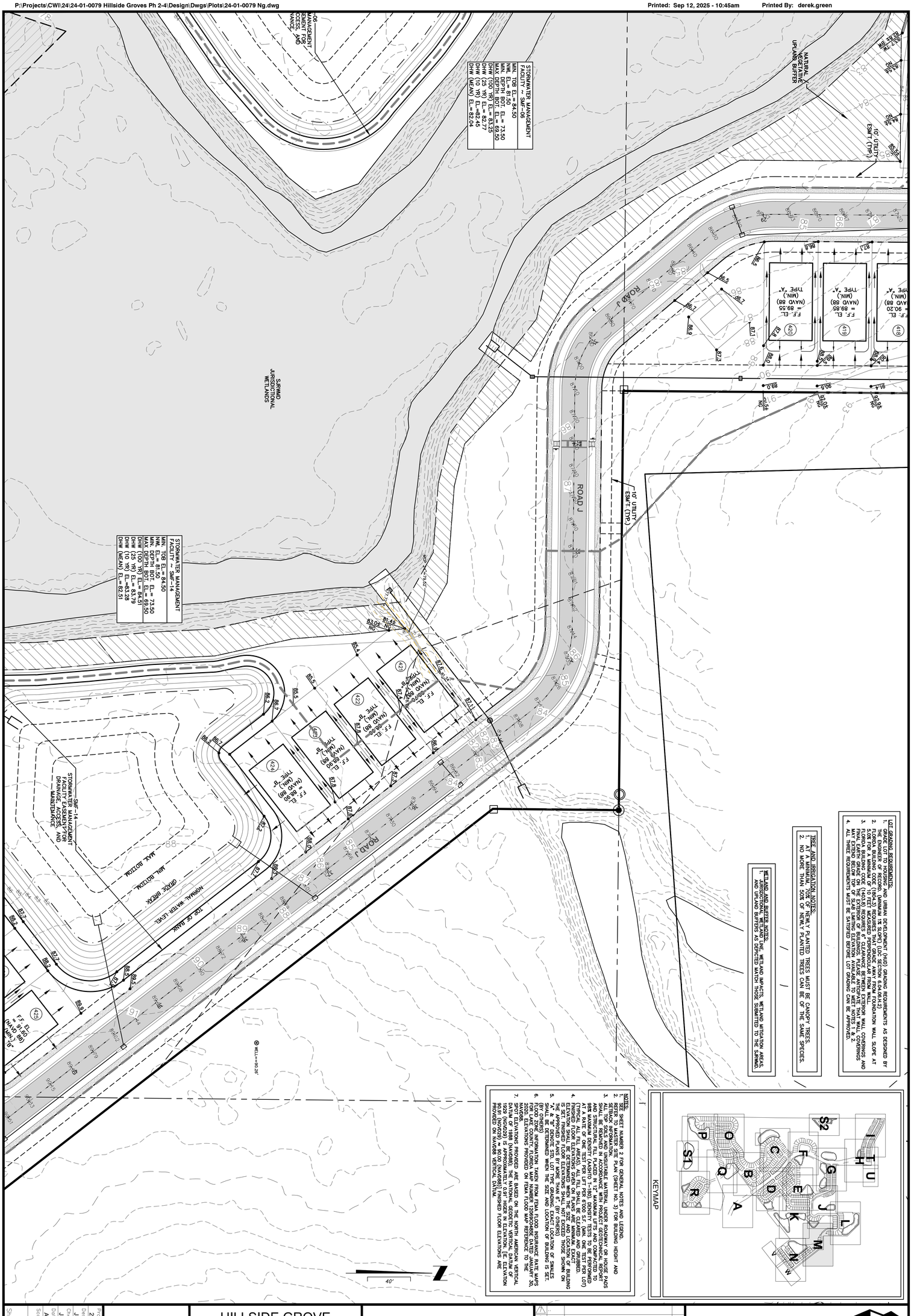

Sheet: 8M	Project No.: 24-01-0079	JUSTIN ELLERY WILLIAMS P.E. NUMBER: 69260 Reg. Engineer	HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS PREPARED FOR MERITAGE HOMES	NEIGHBORHOOD GRADING PLAN	CONNELLY & WICKER, LLC 10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246 PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650
Designed: JEW	Drawn: DCG			No. Date Revision By	
Checked: JEW	Q.C.: RCW				
Date: APR 2025	Scale: 1" = 40'				

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SMF-14 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SJRWMD JURISDICTIONAL WETLANDS

10' UTILITY ESM'T (TYP.)

ROAD Q

ROAD R

ROAD J

F.F. EL. = 92.00 (NAVD 88) (MIN.) TYPE "B" — 433

F.F. EL. = 92.10 (NAVD 88) (MIN.) TYPE "B" — 434

F.F. EL. = 92.20 (NAVD 88) (MIN.) TYPE "A" — 435

F.F. EL. = 92.00 (NAVD 88) (MIN.) TYPE "A" — 436

F.F. EL. = 91.85 (NAVD 88) (MIN.) TYPE "A" — 437

F.F. EL. = 91.85 (NAVD 88) (MIN.) TYPE "A" — 438

F.F. EL. = 91.90 (NAVD 88) (MIN.) TYPE "A" — 439

F.F. EL. = 92.15 (NAVD 88) (MIN.) TYPE "A" — 440

F.F. EL. = 92.15 (NAVD 88) (MIN.) TYPE "A" — 441

F.F. EL. = 92.35 (NAVD 88) (MIN.) TYPE "A" — 442

F.F. EL. = 92.50 (NAVD 88) (MIN.) TYPE "B" — 443

F.F. EL. = 92.10 (NAVD 88) (MIN.) TYPE "B" — 444

F.F. EL. = 92.10 (NAVD 88) (MIN.) TYPE "A" — 445

F.F. EL. = 91.90 (NAVD 88) (MIN.) TYPE "A" — 446

F.F. EL. = 91.70 (NAVD 88) (MIN.) TYPE "A" — 447

F.F. EL. = 91.85 (NAVD 88) (MIN.) TYPE "A" — 448

F.F. EL. = 91.90 (NAVD 88) (MIN.) TYPE "A" — 449

F.F. EL. = 91.70 (NAVD 88) (MIN.) TYPE "A" — 450

F.F. EL. = 91.05 (NAVD 88) (MIN.) TYPE "A" — 451

F.F. EL. = 90.90 (NAVD 88) (MIN.) TYPE "A" — 452

F.F. EL. = 91.55 (NAVD 88) (MIN.) TYPE "A" — 453

F.F. EL. = 91.65 (NAVD 88) (MIN.) TYPE "A" — 454

F.F. EL. = 90.70 (NAVD 88) (MIN.) TYPE "A" — 455

F.F. EL. = 90.75 (NAVD 88) (MIN.) TYPE "A" — 456

F.F. EL. = 90.45 (NAVD 88) (MIN.) TYPE "A" — 457

F.F. EL. = 90.25 (NAVD 88) (MIN.) TYPE "A" — 458

F.F. EL. = 90.35 (NAVD 88) (MIN.) TYPE "A" — 459

F.F. EL. = 90.55 (NAVD 88) (MIN.) TYPE "A" — 460

F.F. EL. = 90.70 (NAVD 88) (MIN.) TYPE "A" — 461

F.F. EL. = 90.80 (NAVD 88) (MIN.) TYPE "A" — 462

F.F. EL. = 91.05 (NAVD 88) (MIN.) TYPE "A" — 463

F.F. EL. = 91.05 (NAVD 88) (MIN.) TYPE "A" — 464

F.F. EL. = 91.35 (NAVD 88) (MIN.) TYPE "A" — 465

F.F. EL. = 91.40 (NAVD 88) (MIN.) TYPE "A" — 466

F.F. EL. = 91.30 (NAVD 88) (MIN.) TYPE "B" — 467

F.F. EL. = 91.60 (NAVD 88) (MIN.) TYPE "B" — 425

F.F. EL. = 91.60 (NAVD 88) (MIN.) TYPE "B" — 426

F.F. EL. = 91.40 (NAVD 88) (MIN.) TYPE "B" — 427

F.F. EL. = 91.30 (NAVD 88) (MIN.) TYPE "B" — 428

F.F. EL. = 91.10 (NAVD 88) (MIN.) TYPE "B" — 429

F.F. EL. = 91.40 (NAVD 88) (MIN.) TYPE "B" — 430

F.F. EL. = 91.60 (NAVD 88) (MIN.) TYPE "B" — 431

F.F. EL. = 91.80 (NAVD 88) (MIN.) TYPE "B" — 432

10' UTILITY ESM'T (TYP.)

FOM

JMX CHIMNEYS MIDDLE

50'

49'

KEYMAP

WETLAND AND BUFFER NOTES:
1. JURISDICTIONAL WETLAND LINE, WETLAND IMPACTS, WETLAND MITIGATION AREAS, AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

TREE AND IRRIGATION NOTES:
1. AT A MINIMUM, 70% OF NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

LOT GRADING REQUIREMENTS:
1. GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD. (MINIMUM 1% SLOPE) (LDC SECTION 6.04.06.H.2)
2. FLORIDA BUILDING CODE (1804.3) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT 5.0% FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM WALL.
3. FLORIDA BUILDING CODE (1403.8) REQUIRES 6" CLEARANCE BETWEEN EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WALL COVERINGS MAY EXTEND BELOW TOP OF SLAB LIMITING ELEVATION AVAILABLE TO MEET NOTES 1 & 2.
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NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO MASTER SITE PLAN (SHEET NO. 3) FOR BUILDING HEIGHT AND SETBACK INFORMATION.
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4. FINISHED FLOOR ELEVATIONS GIVEN ON PLANS ARE MINIMUM. EXACT ELEVATION SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. FINISHED FLOOR ELEVATIONS SHALL NOT EXCEED THOSE SHOWN ON THE APPROVED PLANS BY MORE THAN 6". (BY OTHERS)
5. "A" & "B" DENOTE STD. LOT TYPE GRADING. EXACT LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET. (BY OTHERS)
6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS FOR LAKE COUNTY, FLORIDA MAP NUMBER 12069C0485E DATED JANUARY 30, 2020. ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE NAVD88.
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS APPROXIMATELY 0.91' HIGER IN ELEVATION. [IE. ELEVATION 90.91 (NGVD29) ≈ 90.00 (NAVD88)] FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A1			
A2			
A3			
A4			
A5			
A6			

NEIGHBORHOOD GRADING PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	8N

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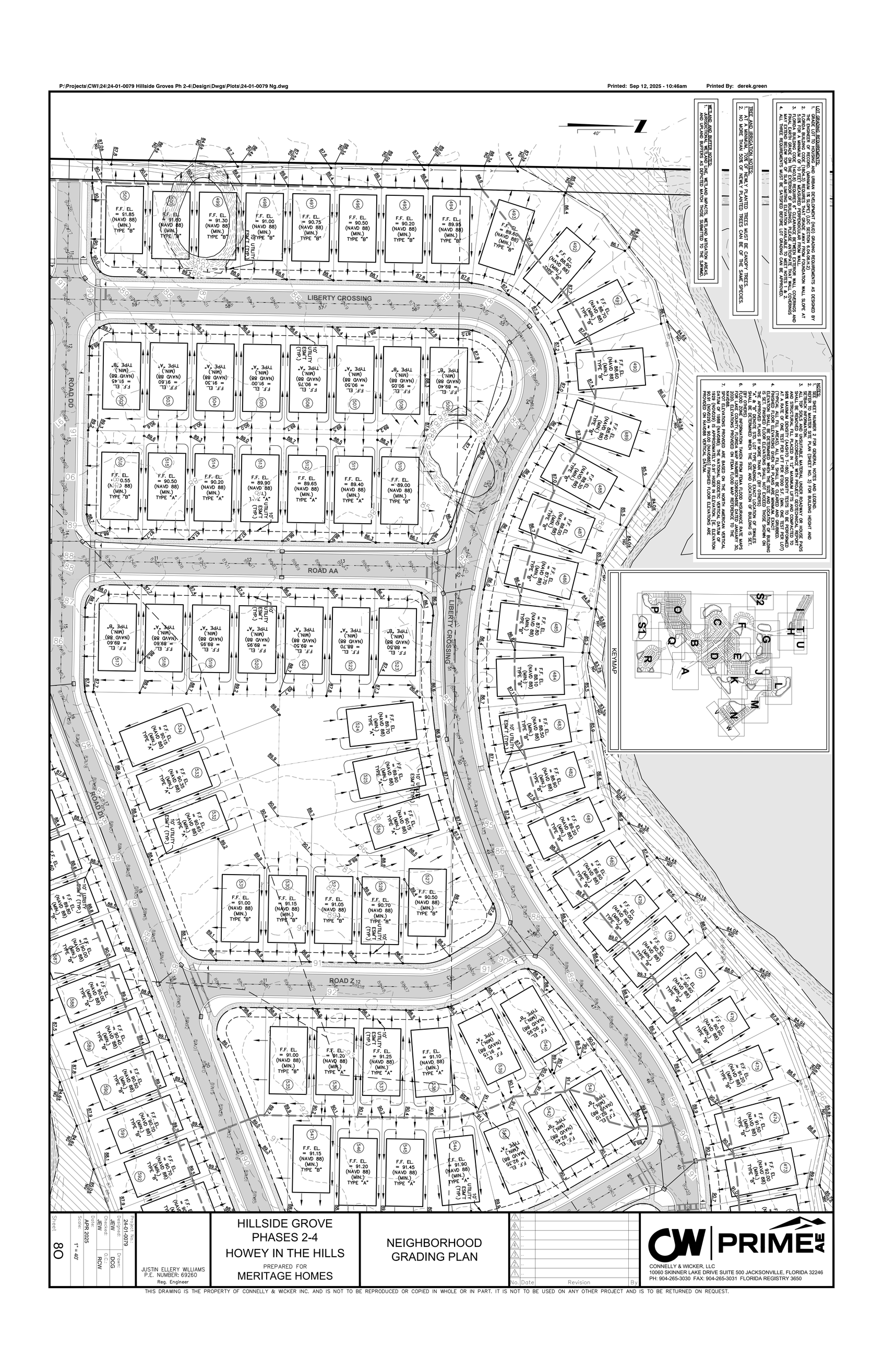
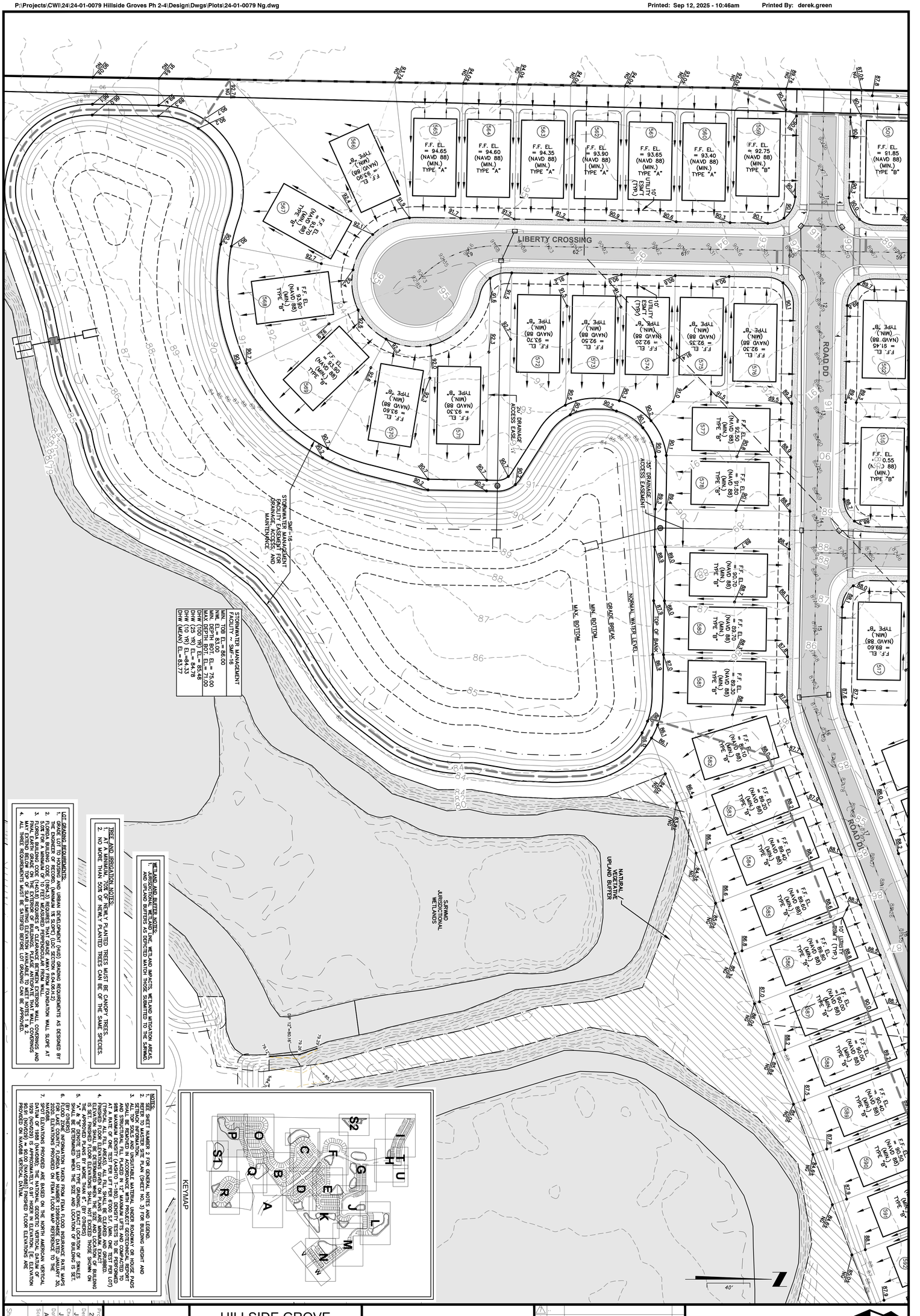
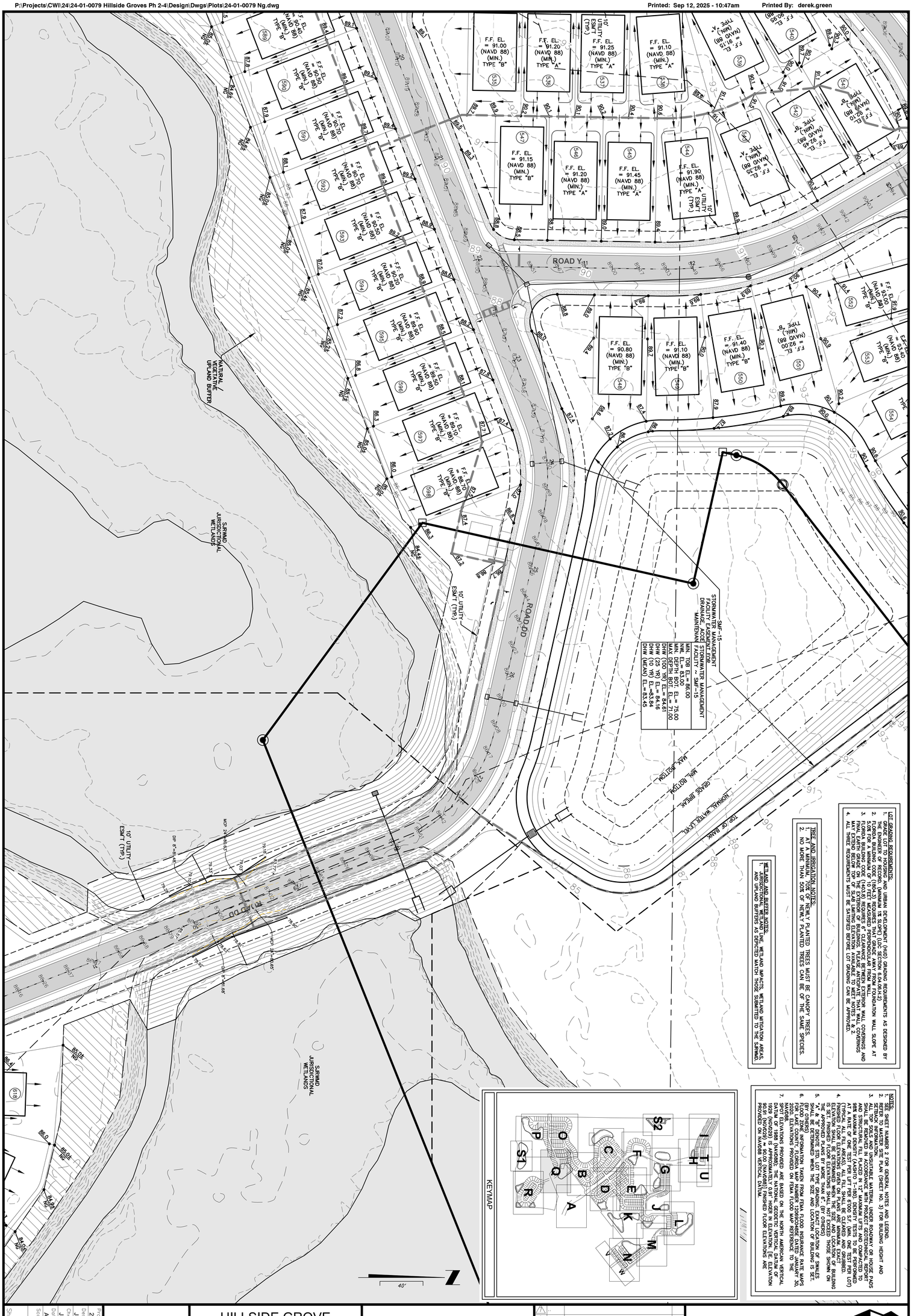

LOT GRADING REQUIREMENTS:
1. ALL LOTS SHALL BE GRADED TO DRAIN AS REQUIRED BY THE FLORIDA BUILDING CODE (FBC) GRADING REQUIREMENTS AS DESIGNED BY A FLORIDA REGISTERED ENGINEER.
2. FLORIDA BUILDING CODE (FBC) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT 5.0% FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WILL GOVERNING BUILDING CODE MAY REQUIRE ADDITIONAL GRADING TO MEET THIS REQUIREMENT.
4. ALL TREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.
WETLAND AND BUFFER NOTES:
1. CONSTRUCTION ZONE, WETLAND, MITIGATION AREAS, WETLAND AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.
TREE AND IRRIGATION NOTES:
1. NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.
NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. SEE ARCHITECTURAL PLANS FOR BUILDING HEIGHT AND SETBACK INFORMATION.
3. ALL CONSTRUCTION ON THIS SITE SHALL BE BUILT IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND MINIMUM PROPERTY FLOOR ELEVATIONS SHALL BE ESTABLISHED AT A RATE OF ONE TEST PER LIFT PER 6'000 S.F. (MIN ONE TEST PER LOT)
4. FINISHED FLOOR ELEVATIONS GIVEN ON PLANS ARE MINIMUM EXACT FINISHED FLOOR ELEVATIONS (BY OTHERS)
5. THE APPROVED PLANS BY HOPE TRUSS, INC. FOR LOCATION OF SWALES SHALL BE DETERMINED WHEN THE SIZE AND LOCATION OF BUILDING IS SET.
6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS 2000). ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) = 89.00 (NAVD88)) FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.
LIBERTY CROSSING
ROAD DD
ROAD AA
ROAD CC
ROAD ZZ
KEYMAP
F.F. EL. = 91.85 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 91.80 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 91.30 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 91.00 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 90.75 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 90.50 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 90.20 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.95 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.60 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.40 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.20 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 89.05 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 88.85 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 88.70 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 88.55 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 88.40 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. =


LIBERTY CROSSING
ROAD DD
ROAD DD
SMF-16 STORMWATER MANAGEMENT FACILITY AND DRAINAGE, ACCESS, AND MAINTENANCE
SW DRAINAGE ACCESS EASEMENT
SW DRAINAGE ACCESS EASEMENT
GRADE BREAK
NORMAL WATER LEVEL
TOP OF BANK
MAX. BOTTOM
MIN. BOTTOM
S.WMD JURISDICTIONAL WETLANDS
NATURAL VEGETATIVE UPLAND BUFFER
10' UTILITY EASEMENT (TYP.)
F.F. EL. = 94.65 (NAVD 88) (MIN.) TYPE "A"
F.F. EL. = 94.60 (NAVD 88) (MIN.) TYPE "A"
F.F. EL. = 94.35 (NAVD 88) (MIN.) TYPE "A"
F.F. EL. = 93.90 (NAVD 88) (MIN.) TYPE "A"
F.F. EL. = 93.65 (NAVD 88) (MIN.) TYPE "A"
F.F. EL. = 93.40 (NAVD 88) (MIN.) TYPE "A"
F.F. EL. = 92.75 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 91.85 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.30 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.35 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.50 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.30 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.50 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 91.80 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.30 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.50 (NAVD 88) (MIN.) TYPE "B"
F.F. EL. = 92.30



LOT GRADING REQUIREMENTS:
1. GRADE LOT TO HOUSING AND URBAN DEVELOPMENT (HUD) GRADING REQUIREMENTS AS DESIGNED BY THE ENGINEER OF RECORD.
2. FLORIDA BUILDING CODE (1804.3) REQUIRES THAT GRADE AWAY FROM FOUNDATION WALL SLOPE AT 5.0% FOR A MINIMUM OF 10 FEET MEASURED PERPENDICULAR FROM WALL.
3. FINAL EARTH GRADE ON THE EXTERIOR OF BUILDINGS. PLEASE ANTICIPATE THAT WALL COVERINGS MAY ADD ADDITIONAL THICKNESS TO THE WALL ASSEMBLY.
4. ALL THREE REQUIREMENTS MUST BE SATISFIED BEFORE LOT GRADING CAN BE APPROVED.

TREE AND IRRIGATION NOTES:
1. NEWLY PLANTED TREES MUST BE CANOPY TREES.
2. NO MORE THAN 50% OF NEWLY PLANTED TREES CAN BE OF THE SAME SPECIES.

WETLAND AND BUFFER NOTES:
1. NO CLEARING, GRADING OR CONSTRUCTION OF WETLAND IMPACTS, WETLAND MITIGATION AREAS AND UPLAND BUFFERS AS DEPICTED MATCH THOSE SUBMITTED TO THE SJRWMD.

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. SETBACK INFORMATION TAKEN FROM SITE PLAN (SHEET NO. 3).
3. ALL FILL PLACED UNDER BUILDINGS SHALL BE REMOVED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT AND SHALL BE COMPACTED TO 98% MAXIMUM DENSITY (AASHTO T-180). DENSITY TESTS TO BE PERFORMED AT A RATE OF ONE TEST PER LIFT PER 4,000 S.F. (MIN. ONE TEST PER LOT).
4. ALL ELEVATIONS SHOWN ON PLANS ARE MINIMUM ELEVATIONS. EXACT ELEVATIONS SHALL BE DETERMINED BY ARCHITECT OR BUILDER.
5. THE APPROVED PLANS BY MORE THAN 6" (6 INCHES).
6. FLOOD ZONE INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS (FIRM) FOR ORANGE COUNTY, FLORIDA, MAP NUMBER 12095C0430F, EFFECTIVE SEPTEMBER 25, 2009. ELEVATIONS PROVIDED ON FEMA FLOOD MAP REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS 1.31 FEET HIGHER THAN NAVD88 IN THIS AREA. TO CONVERT NGVD29 TO NAVD88 SUBTRACT 1.31 FEET FROM NGVD29 ELEVATION. ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON NAVD88 VERTICAL DATUM.
7. SPOT ELEVATIONS PROVIDED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) IS 90.00 (NAVD88) LOWER THAN NAVD88. ALL FINISHED FLOOR ELEVATIONS ARE PROVIDED ON NAVD88 VERTICAL DATUM.

Sheet	Project No.	Drawn	Designed	Checked	Date	Scale
80	24-01-0079	DCG	JEW	RCW	APR 2025	1" = 40'

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

NEIGHBORHOOD GRADING PLAN

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			
7			

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

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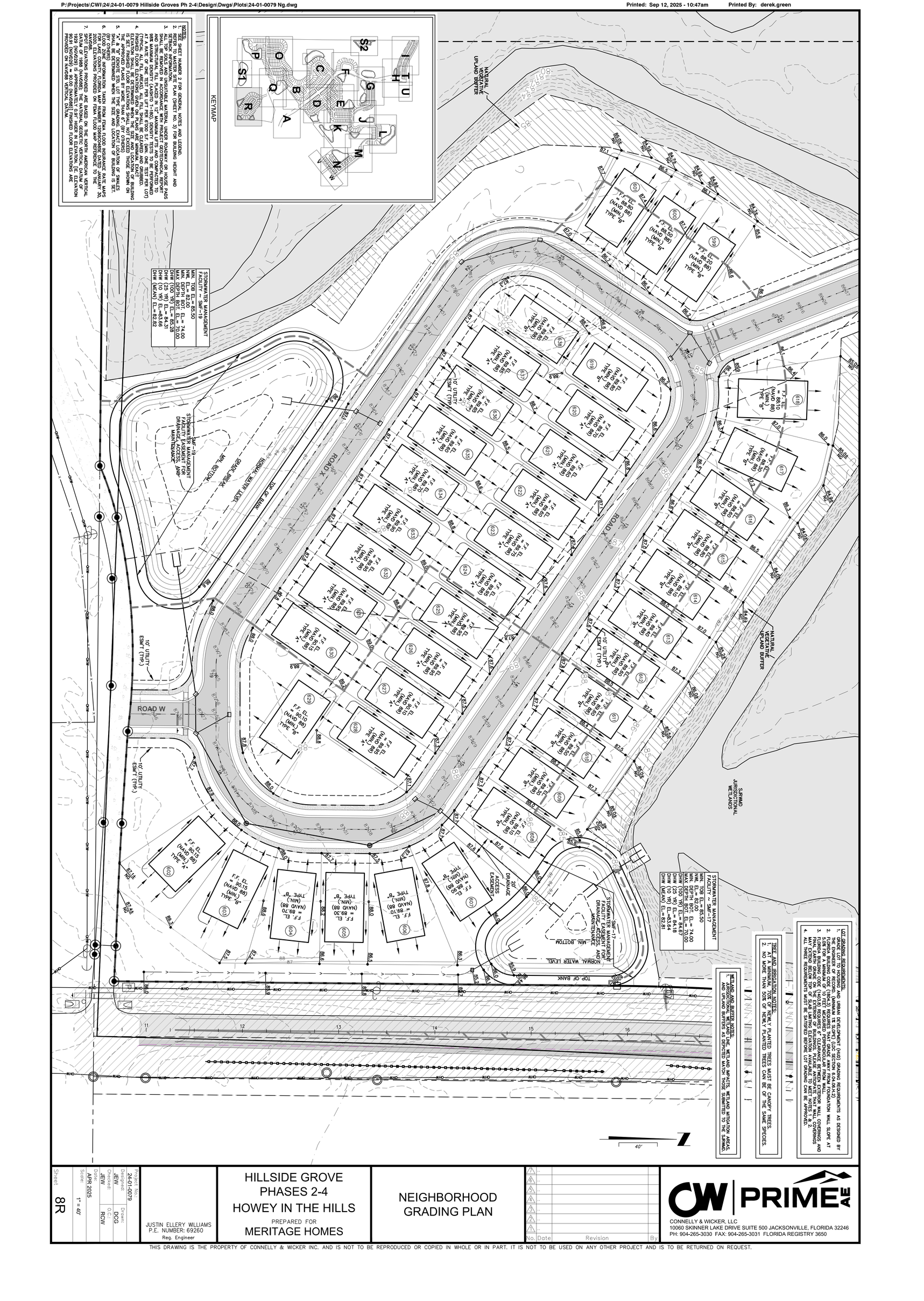

Sheet 8R	Project No. 24-01-0079	HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS	NEIGHBORHOOD GRADING PLAN	CONNELLY & WICKER, LLC 10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246 PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650
Date: APR 2025	Designed: JEW	PREPARED FOR MERITAGE HOMES		
Scale: 1" = 40'	Drawn: DCG			
	Checked: JEW			
	Q.C.: RCW			
	JUSTIN ELLERY WILLIAMS P.E. NUMBER: 69260 Reg. Engineer		No. Date Revision By	

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CW PRIME

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

MASTER UTILITY PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 300'
Sheet	9

Printed: Sep 22, 2025 - 8:56am Printed By: derek.green

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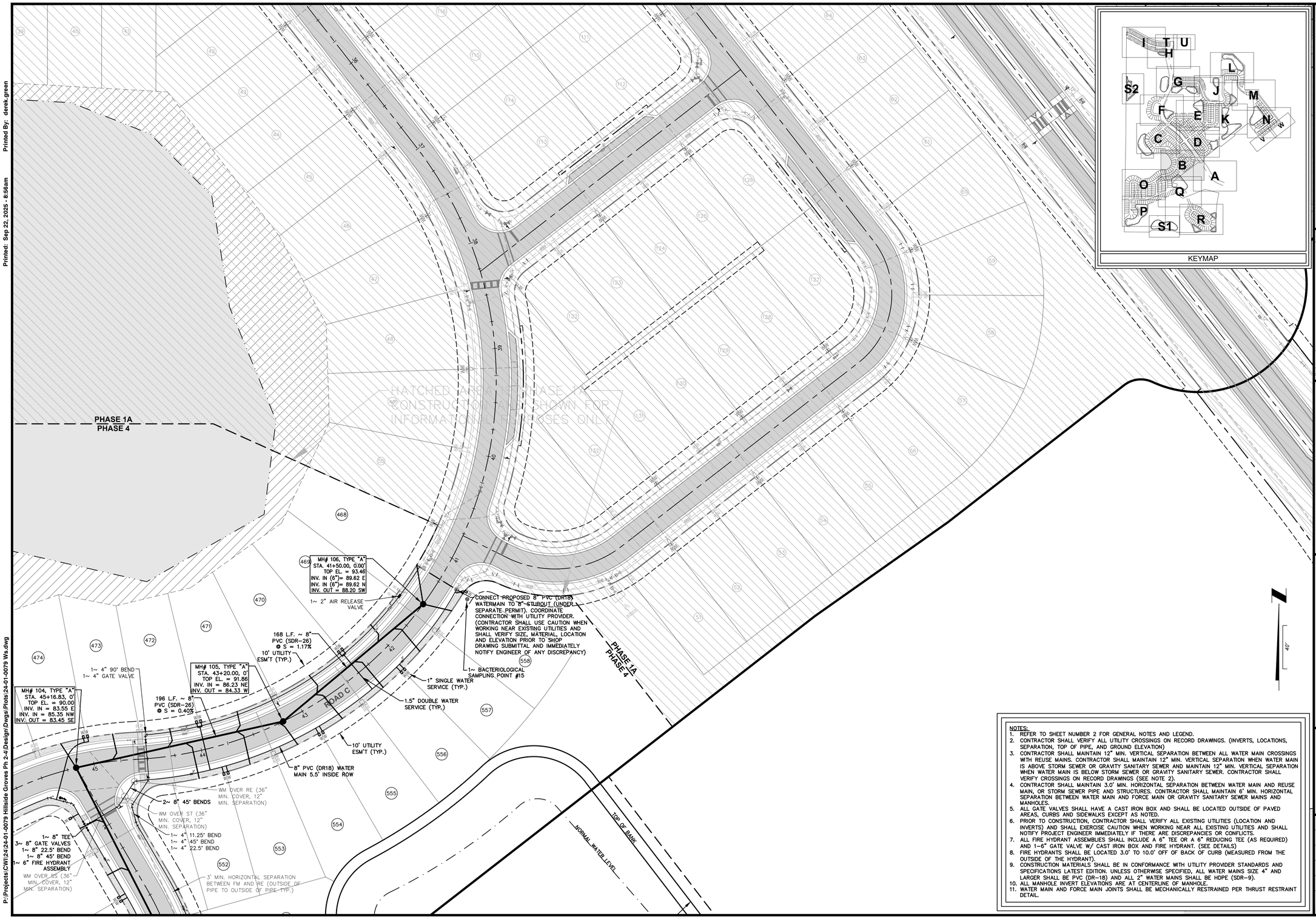

NOTES:
1. REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS. (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE, AND GROUND ELEVATION)
3. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION BETWEEN ALL WATER MAIN CROSSINGS WITH REUSE MAINS. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS ABOVE STORM SEWER OR GRAVITY SANITARY SEWER AND MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS BELOW STORM SEWER OR GRAVITY SANITARY SEWER. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (SEE NOTE 2).
4. CONTRACTOR SHALL MAINTAIN 3.0' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND REUSE MAIN, OR STORM SEWER PIPE AND STRUCTURES. CONTRACTOR SHALL MAINTAIN 6' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND FORCE MAIN OR GRAVITY SANITARY SEWER MAINS AND MANHOLES.
5. ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUTSIDE OF PAVED AREAS, CURBS AND SIDEWALKS EXCEPT AS NOTED.
6. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
7. ALL FIRE HYDRANT ASSEMBLIES SHALL INCLUDE A 6" TEE OR A 6" REDUCING TEE (AS REQUIRED) AND 1~6" GATE VALVE W/ CAST IRON BOX AND FIRE HYDRANT. (SEE DETAILS)
8. FIRE HYDRANTS SHALL BE LOCATED 3.0' TO 10.0' OFF OF BACK OF CURB (MEASURED FROM THE OUTSIDE OF THE HYDRANT).
9. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH UTILITY PROVIDER STANDARDS AND SPECIFICATIONS LATEST EDITION. UNLESS OTHERWISE SPECIFIED, ALL WATER MAINS SIZE 4" AND LARGER SHALL BE PVC (DR-18) AND ALL 2" WATER MAINS SHALL BE HDPE (SDR-9).
10. ALL MANHOLE INVERT ELEVATIONS ARE AT CENTERLINE OF MANHOLE.
11. WATER MAIN AND FORCE MAIN JOINTS SHALL BE MECHANICALLY RESTRAINED PER THRUST RESTRAINT DETAIL.

CW PRIME EV

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
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A			
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A			

WATER AND SEWER PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: JEW
Date:	APR 2025
Scale:	1" = 40'
Sheet	10B

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SJRWMD JURISDICTIONAL WETLANDS

TOP OF BANK

NORMAL WATER LEVEL

SMF-07 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

PHASE 2
PHASE 1B

PHASE 3
PHASE 1B

HATCHED AREA IS PHASE 1B CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

HATCHED AREA IS PHASE 1B CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

ROAD N

ROAD J

ROAD B

ROAD P

MH# 79, TYPE "A"
STA. 23+60.00, 0'
TOP EL. = 88.03
INV. IN = 83.96 NW
INV. OUT = 83.86 S

4~ 8" 11.25° BENDS

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

1~ 6" FIRE HYDRANT ASSEMBLY

125 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

250 L.F. ~ 8" PVC (SDR-26) @ S = 0.52%

1~ BACTERIOLOGICAL SAMPLING POINT #8

1.5" DOUBLE WATER SERVICE (TYP.)

MH# 78, TYPE "A"
STA. 12+50.00, 0'
TOP EL. = 89.16
INV. IN = 85.32 NE
INV. OUT = 85.15 W

WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

MH# 77, TYPE "A"
STA. 24+85.57, 0'
TOP EL. = 87.85
INV. IN = 83.85 E
INV. IN = 83.36 N
INV. OUT = 83.26 S

1~ 8" TEE
3~ 8" GATE VALVES

1" SINGLE WATER SERVICE (TYP.)

2~ 8" 45° BENDS

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

1~ 8" TEE
3~ 8" GATE VALVES
2~ 8" 45° BENDS

MH# 75, TYPE "A"
STA. 16+30.00, 0'
TOP EL. = 88.86
INV. IN = 85.02 NW
INV. OUT = 84.85 S

10' UTILITY ESM'T (TYP.)

1.5" DOUBLE WATER SERVICE (TYP.)

393 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1~ BACTERIOLOGICAL SAMPLING POINT #5

314 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1" SINGLE WATER SERVICE (TYP.)

10' UTILITY ESM'T (TYP.)

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

1~ 6" FIRE HYDRANT ASSEMBLY

10' UTILITY ESM'T (TYP.)

1~ BACTERIOLOGICAL SAMPLING POINT #7

MH# 76, TYPE "A"
STA. 20+50.00, 0'
TOP EL. = 87.05
INV. IN = 81.69 N
INV. OUT = 81.00 S

MH# 74, TYPE "A"
STA. 13+15.00, 0'
TOP EL. = 87.86
INV. IN = 83.59 N
INV. OUT = 83.49 SW

WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

WM OVER RE (36" MIN. COVER, 12" MIN. SEPARATION)

2~ 8" 45° BENDS

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

1~ 8" TEE
3~ 8" GATE VALVES
1~ 8" 22.5° BEND

4~ 8" 22.5° BENDS
1~ 6" FIRE HYDRANT ASSEMBLY

62 L.F. ~ 8" PVC (SDR-26) @ S = 1.44%

2~ 8" 11.25° BENDS

78 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1.5" DOUBLE WATER SERVICE (TYP.)

CONNECT PROPOSED 8" PVC (DR18) WATERMAIN TO 8" STUBOUT (UNDER SEPARATE PERMIT). COORDINATE CONNECTION WITH UTILITY PROVIDER. (CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

MH# 72, TYPE "A"
STA. 19+87.19, 0'
TOP EL. = 86.50
INV. IN = 79.00 E
INV. IN = 80.10 N
INV. OUT = 78.90 SW

234 L.F. ~ 8" PVC (SDR-26) @ S = 1.50%

MH# 73, TYPE "A"
STA. 12+35.00, 0'
TOP EL. = 87.44
INV. IN = 83.18 NE
INV. OUT = 82.50 W

101 L.F. ~ 8" PVC (SDR-26) @ S = 0.69%

1~ BACTERIOLOGICAL SAMPLING POINT #6

MH# 45 (EXISTING), TYPE "A"
STA. 18+85.00, 0'
TOP EL. = 85.81
INV. IN = 78.20 NE

KEYMAP

NOTES:
1. REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS. (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE, AND GROUND ELEVATION)
3. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION BETWEEN ALL WATER MAIN CROSSINGS WITH REUSE MAINS. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS ABOVE STORM SEWER OR GRAVITY SANITARY SEWER AND MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS BELOW STORM SEWER OR GRAVITY SANITARY SEWER. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (SEE NOTE 2).
4. CONTRACTOR SHALL MAINTAIN 3.0' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND REUSE MAIN, OR STORM SEWER PIPE AND STRUCTURES. CONTRACTOR SHALL MAINTAIN 6' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND FORCE MAIN OR GRAVITY SANITARY SEWER MAINS AND MANHOLES.
5. ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUTSIDE OF PAVED AREAS, CURBS AND SIDEWALKS EXCEPT AS NOTED.
6. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
7. ALL FIRE HYDRANT ASSEMBLIES SHALL INCLUDE A 6" TEE OR A 6" REDUCING TEE (AS REQUIRED) AND 1-6" GATE VALVE W/ CAST IRON BOX AND FIRE HYDRANT. (SEE DETAILS)
8. FIRE HYDRANTS SHALL BE LOCATED 3.0' TO 10.0' OFF OF BACK OF CURB (MEASURED FROM THE OUTSIDE OF THE HYDRANT).
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11. WATER MAIN AND FORCE MAIN JOINTS SHALL BE MECHANICALLY RESTRAINED PER THRUST RESTRAINT DETAIL.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By

WATER AND SEWER PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	10E

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HED AREA IS PHASE 1A
TRUCTION AND SHOWN
NFORMATIONAL PURPOSES

SJRWMD JURISDICTIONAL WETLANDS

40'

KEYMAP

MH# 136, TYPE "A"
STA. 10+75.00, 0'
TOP EL. = 86.83
INV. IN = 76.65 E

MH# 68, TYPE "A"
STA. 14+05.00, 0'
TOP EL. = 86.46
INV. IN = 80.99 E
INV. OUT = 79.85 W

10' UTILITY ESM'T (TYP.)

MH# 69, TYPE "A"
STA. 17+25.00, 0'
TOP EL. = 87.07
INV. IN = 82.37 SE
INV. OUT = 82.27 W

ROAD N

1~ BACTERIOLOGICAL SAMPLING POINT #3

CONNECT PROPOSED 8" PVC (DR18) WATERMAIN TO 8" STUBOUT (UNDER SEPARATE PERMIT). COORDINATE CONNECTION WITH UTILITY PROVIDER. (CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

1~ 6" FIRE HYDRANT ASSEMBLY

WM UNDER ST (36" MIN. COVER, 12" MIN. SEPARATION)

10' UTILITY ESM'T (TYP.)

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

6~ 8" 11.25° BENDS
1~ 8" GATE VALVE

MH# 70, TYPE "A"
STA. 17+90.00, 0'
TOP EL. = 86.83
INV. IN = 82.72 S
INV. OUT = 82.62 NW

WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

TOP OF BANK
NORMAL WATER LEVEL

SMF-09
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SMF-10
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SJRWMD JURISDICTIONAL WETLANDS

1~ 6" FIRE HYDRANT ASSEMBLY

10' UTILITY ESM'T (TYP.)

NOTES:
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PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
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2			
3			
4			
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WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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1~ 8" GATE VALVE

MH# 65, TYPE "A"
STA. 16+25.00, 0'
TOP EL. = 86.91
INV. IN = 81.50 NW
INV. OUT = 81.40 S

WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

1~ 6" FIRE HYDRANT ASSEMBLY

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

CONNECT PROPOSED 8" PVC (DR18) WATERMAIN TO 8" STUBOUT (UNDER SEPARATE PERMIT). COORDINATE CONNECTION WITH UTILITY PROVIDER. (CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

1~ BACTERIOLOGICAL SAMPLING POINT #1

ROAD O

250 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 64, TYPE "A"
STA. 13+75.00, 0'
TOP EL. = 86.86
INV. IN = 80.40 W
INV. OUT = 80.30 E

305 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 63, TYPE "A"
STA. 10+70.00, 0'
TOP EL. = 87.13
INV. IN = 79.08 W

PHASE 2
PHASE 1A

O AREA IS PHASE 1A
UCTION AND SHOWN FOR
ATIONAL PURPOSES ONLY

TOP OF BANK

NORMAL WATER LEVEL

SMF-11
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SJRWMD JURISDICTIONAL WETLANDS

KEYMAP

40'

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No.	Date	Revision	By
1			
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WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Designed:	JEW
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O.C.:	RCW
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Scale:	1" = 40'
Sheet	10H

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10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3850

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	Q.C.: RCW
Date: APR 2025	
Scale: 1" = 40'	
Sheet 10I	

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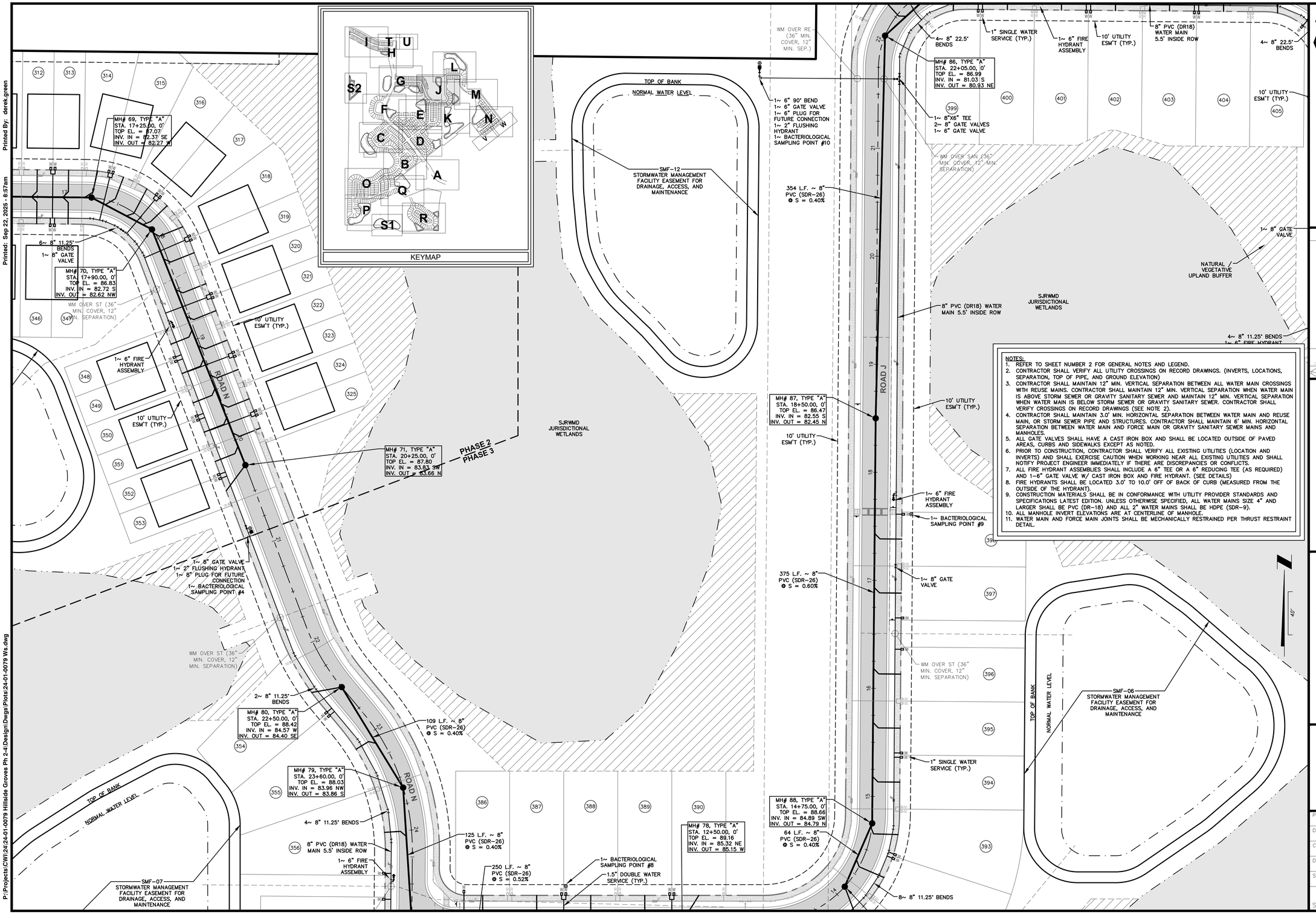

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PH: 904-288-3383 FAX: 904-288-3031 FLORIDA REGISTRY 3650

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WATER AND SEWER PLAN

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HOWEY IN THE HILLS
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MERITAGE HOMES

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PREPARED FOR
MERITAGE HOMES

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Scale:	1" = 40'
Sheet	10L

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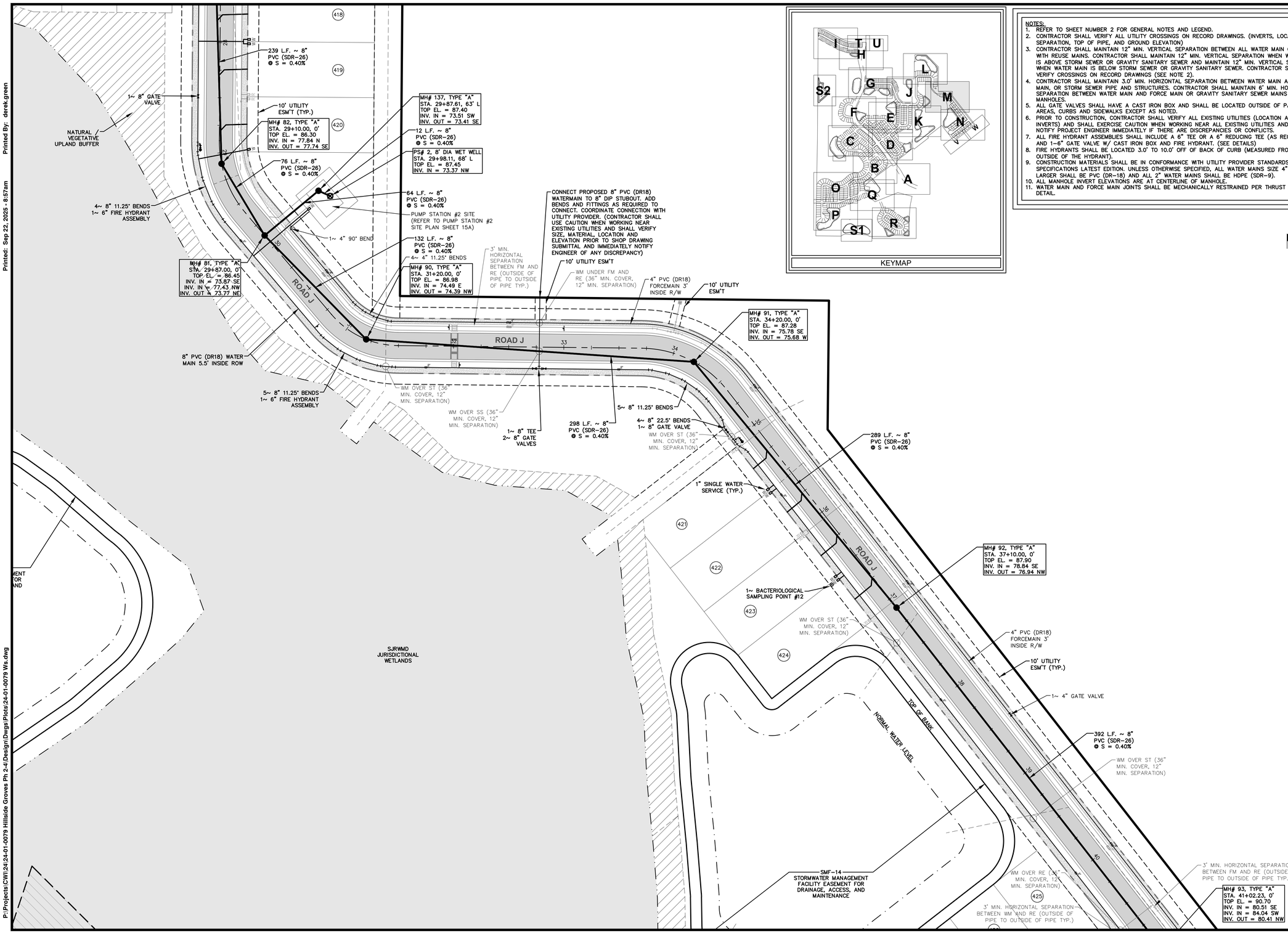

NOTES:
1. REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
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7. ALL FIRE HYDRANT ASSEMBLIES SHALL INCLUDE A 6" TEE OR A 6" REDUCING TEE (AS REQUIRED) AND 1~6" GATE VALVE W/ CAST IRON BOX AND FIRE HYDRANT. (SEE DETAILS)
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10. ALL MANHOLE INVERT ELEVATIONS ARE AT CENTERLINE OF MANHOLE.
11. WATER MAIN AND FORCE MAIN JOINTS SHALL BE MECHANICALLY RESTRAINED PER THRUST RESTRAINT DETAIL.

PRIME AE
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
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3			
4			
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WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	10M

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SMF-14 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SJRWMD JURISDICTIONAL WETLANDS

ROAD P

ROAD J

S.R. 19

MH# 93, TYPE "A"
STA. 41+02.23, 0'
TOP EL. = 90.70
INV. IN = 80.51 SE
INV. IN = 84.04 SW
INV. OUT = 80.41 NW

1~ 2" AIR RELEASE VALVE

2~ 8" 45° BENDS
WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

3' MIN. HORIZONTAL SEPARATION BETWEEN FM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

WM OVER RE (36" MIN. COVER, 12" MIN. SEPARATION)

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

10' UTILITY ESM'T (TYP.)

280 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

315 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1~ 8"X4" TEE
2~ 8" GATE VALVES
1~ 4" GATE VALVE
2~ 8" 45° BENDS
1~ 6" FIRE HYDRANT ASSEMBLY

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

4" PVC (DR18) FORCEMAIN 3' INSIDE R/W

1.5" DOUBLE WATER SERVICE (TYP.)

1" SINGLE WATER SERVICE (TYP.)

78 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1~ 2" FLUSHING HYDRANT
1~ BACTERIOLOGICAL SAMPLING POINT #13

2" HDPE (DR9) WATER MAIN 3' INSIDE ROW

4" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

MH# 94, TYPE "A"
STA. 13+15.00, 0'
TOP EL. = 89.42
INV. IN = 85.40 W
INV. OUT = 85.30 NE

MH# 96, TYPE "A"
STA. 43+82.23, 0'
TOP EL. = 89.70
INV. IN = 81.73 SW
INV. OUT = 81.63 NW

2~ 8" 45° BEND
WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

FORCE MAIN CONSTRUCTION TO CONTINUE ON SR19. SEE SR-19 WATER AND SEWER PLAN (SHEET 10V) FOR FM CONTINUATION

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

MH# 95, TYPE "A"
STA. 13+95.33, 0.00'
TOP EL. = 90.65
INV. IN (6")= 85.88 NW
INV. IN (6")= 85.88 W
INV. IN (6")= 85.88 SW
INV. OUT = 85.71 E

1~ 4" PLUG TAPPED AT 2"

275 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1~ 8" TEE
3~ 8" GATE VALVES
2~ 8" 45° BENDS

MH# 97, TYPE "A"
STA. 12+75.00, 0'
TOP EL. = 88.52
INV. IN = 82.93 SW
INV. OUT = 82.83 NE

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

WATERMAIN CONSTRUCTION TO CONTINUE ON SR19. SEE SR-19 WATER AND SEWER PLAN (SHEET 10V) FOR WM CONTINUATION

MATCHLINE SEE SHEET 10V

255 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1~ 6" FIRE HYDRANT ASSEMBLY
1~ 8"x4" REDUCER
1" SINGLE WATER SERVICE (TYP.)

1.5" DOUBLE WATER SERVICE (TYP.)

1~ 2" FLUSHING HYDRANT
1~ BACTERIOLOGICAL SAMPLING POINT #14

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

2" HDPE (DR9) WATER MAIN 3' INSIDE ROW

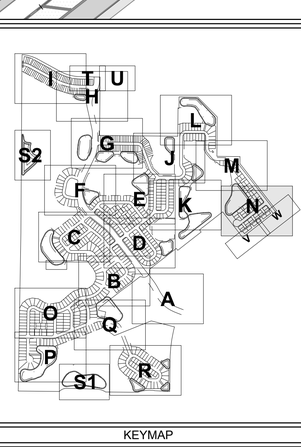
4" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

1~ 4" PLUG TAPPED AT 2"

MH# 98, TYPE "A"
STA. 15+30.00, 0'
TOP EL. = 88.05
INV. IN = 84.05 W
INV. OUT = 83.95 NE

74 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 99, TYPE "A"
STA. 16+05.33, 0.00'
TOP EL. = 89.20
INV. IN (6")= 84.51 NW
INV. OUT = 84.34 E



KEYMAP

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WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	10N

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KEYMAP

NATURAL / VEGETATIVE UPLAND BUFFER

SJRWMD JURISDICTIONAL WETLANDS

MH# 118, TYPE "A"
STA. 54+50.00, 0'
TOP EL. = 87.06
INV. IN = 83.22 NW
INV. OUT = 83.05 E

72 L.F. ~ 8" PVC (SDR-26) @ S = 0.44%

MH# 117, TYPE "A"
STA. 53+75.00, 0'
TOP EL. = 86.73'
INV. IN = 82.73' W
INV. OUT = 82.10 E

165 L.F. ~ 8" PVC (SDR-26) @ S = 1.00%

MH# 113, TYPE "A"
STA. 52+08.93, 0'
TOP EL. = 86.00
INV. IN = 80.86 E
INV. IN = 80.45 W
INV. OUT = 80.35 S

183 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 114, TYPE "A"
STA. 50+25.00, 0'
TOP EL. = 86.79
INV. IN = 81.69 E
INV. OUT = 81.59 W

189 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

10' UTILITY ESM'T (TYP.)

MH# 115, TYPE "A"
STA. 48+35.00, 0.00'
TOP EL. = 87.81
INV. IN (8")= 83.81 NE
INV. OUT = 82.45 W

249 L.F. ~ 8" PVC (SDR-26) @ S = 0.68%

1~ BACTERIOLOGICAL SAMPLING POINT #16

1.5" DOUBLE WATER SERVICE (TYP.)

MH# 116, TYPE "A"
STA. 45+85.00, 0.00'
TOP EL. = 89.52
INV. IN (6")= 85.67 N
INV. OUT = 85.50 SW

MH# 104, TYPE "A"
STA. 45+16.83, 0'
TOP EL. = 90.00
INV. IN = 83.55 E
INV. IN = 85.35 NW
INV. OUT = 83.45 SE

1~ 4" 90° BEND
1~ 4" GATE VALVE

1~ 8" TEE
3~ 8" GATE VALVES
1~ 8" 22.5° BEND
1~ 8" 45° BEND
1~ 6" FIRE HYDRANT ASSEMBLY
WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

1~ 8"x6" TEE
2~ 8" GATE VALVES
1~ 6" GATE VALVE
2~ 8" 45° BENDS

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

210 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 103, TYPE "A"
STA. 12+50.00, 0'
TOP EL. = 89.82
INV. IN = 82.61 NW
INV. OUT = 82.51 S

10' UTILITY ESM'T (TYP.)

1~ BACTERIOLOGICAL SAMPLING POINT #26

1" SINGLE WATER SERVICE (TYP.)

248 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

1~ 8" TEE
3~ 8" GATE VALVES
WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
1~ 8" 45° BEND
1~ 8" 22.5° BEND
1~ 6" FIRE HYDRANT ASSEMBLY

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

300 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1~ BACTERIOLOGICAL SAMPLING POINT #25

1.5" DOUBLE WATER SERVICE (TYP.)

MH# 107, TYPE "B"
STA. 19+10.00, 0'
TOP EL. = 88.77
INV. IN = 81.90 N
INV. IN = 76.41 W
INV. OUT = 76.31 E

330 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

10' UTILITY ESM'T (TYP.)

1~ 6" FIRE HYDRANT ASSEMBLY

1~ BACTERIOLOGICAL SAMPLING POINT #23

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

2~ 8" 45° BENDS

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

WM OVER RE (36" MIN. COVER, 12" MIN. SEPARATION)

MH# 109, TYPE "A"
STA. 13+40.00, 0'
TOP EL. = 88.00
INV. IN = 84.17 NE
INV. OUT = 84.00 SE

64 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

3~ 8" 11.25° BENDS

MH# 108, TYPE "A"
STA. 12+75.00, 0'
TOP EL. = 88.27
INV. IN = 83.74 NW
INV. OUT = 83.64 S

1" SINGLE WATER SERVICE (TYP.)

1~ BACTERIOLOGICAL SAMPLING POINT #24

10' UTILITY ESM'T (TYP.)

1~ 6" FIRE HYDRANT ASSEMBLY

6" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

1~ 8"x6" TEE
2~ 8" GATE VALVES
1~ 6" GATE VALVE
2~ 8" 45° BENDS

MH# 121, TYPE "A"
STA. 55+05.00, 0'
TOP EL. = 87.30
INV. IN = 83.47 NW
INV. OUT = 83.30 S

69 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 120, TYPE "A"
STA. 55+75.00, 0'
TOP EL. = 87.64
INV. IN = 83.02 N
INV. OUT = 82.92 S

WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

5~ 8" 22.5° BENDS
1~ 11.25° BEND

1~ 6" FIRE HYDRANT ASSEMBLY

WM OVER ST AND RE (36" MIN. COVER, 12" MIN. SEPARATION)

2~ 8" 45° BENDS

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

1~ 8"x6" TEE
2~ 8" 45° BENDS
1~ 6" 11.25° BEND
2~ 8" GATE VALVES
1~ 6" GATE VALVE

WM OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

1~ BACTERIOLOGICAL SAMPLING POINT #17

180 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1.5" DOUBLE WATER SERVICE (TYP.)

1~ BACTERIOLOGICAL SAMPLING POINT #18

MH# 112, TYPE "A"
STA. 12+50.00, 0'
TOP EL. = 86.69
INV. IN = 79.63 N
INV. OUT = 79.53 S

6" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

10' UTILITY ESM'T (TYP.)

1~ BACTERIOLOGICAL SAMPLING POINT #22

1" SINGLE WATER SERVICE (TYP.)

1~ 6" FIRE HYDRANT ASSEMBLY

397 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

10' UTILITY ESM'T (TYP.)

1" SINGLE WATER SERVICE (TYP.)

250 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

2~ 8" TEES
2~ 8" 45° BENDS
4~ 8" GATE VALVES

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

1~ 8" PLUG FOR FUTURE CONNECTION
1~ 8" GATE VALVE
1~ 2" FLUSHING HYDRANT
1~ BACTERIOLOGICAL SAMPLING POINT #19

ROAD C
ROAD AA
ROAD DD
ROAD Z

40'

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WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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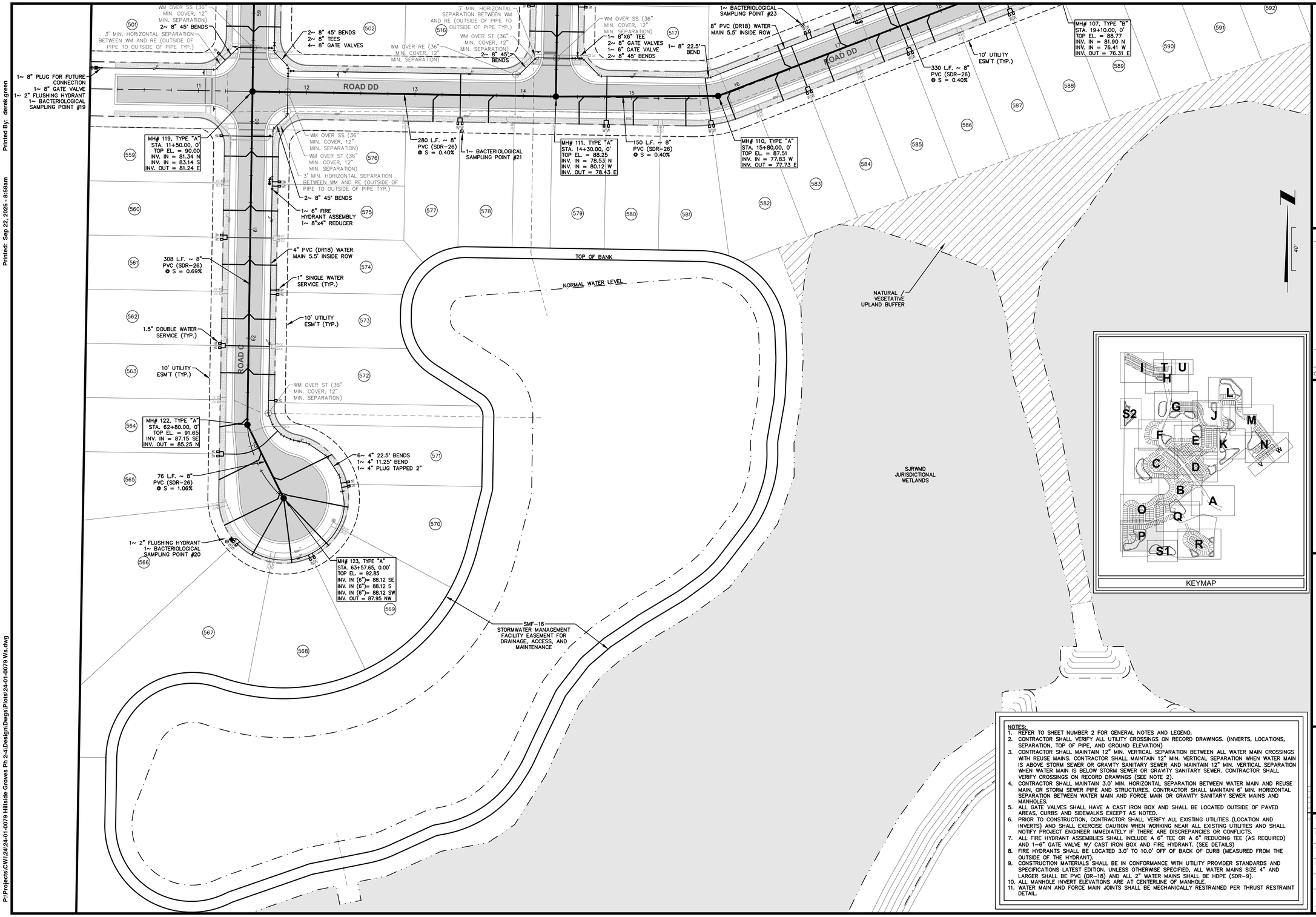

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8. FIRE HYDRANTS SHALL BE LOCATED 3.0' TO 10.0' OFF OF BACK OF CURB (MEASURED FROM THE OUTSIDE OF THE HYDRANT).
9. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH UTILITY PROVIDER STANDARDS AND SPECIFICATIONS LATEST EDITION. UNLESS OTHERWISE SPECIFIED, ALL WATER MAINS SIZE 4" AND LARGER SHALL BE PVC (DR-18) AND ALL 2" WATER MAINS SHALL BE HDPE (SDR-9).
10. ALL MANHOLE INVERT ELEVATIONS ARE AT CENTERLINE OF MANHOLE.
11. WATER MAIN AND FORCE MAIN JOINTS SHALL BE MECHANICALLY RESTRAINED PER THRUST RESTRAINT DETAIL.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

WATER AND SEWER PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	10P

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Printed By: derek.green
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NOTES:
1. REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS. (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE, AND GROUND ELEVATION)
3. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION BETWEEN ALL WATER MAIN CROSSINGS WITH REUSE MAINS. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS ABOVE STORM SEWER OR GRAVITY SANITARY SEWER AND MAINTAIN 12" MIN. VERTICAL SEPARATION WHEN WATER MAIN IS BELOW STORM SEWER OR GRAVITY SANITARY SEWER. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (SEE NOTE 2).
4. CONTRACTOR SHALL MAINTAIN 3.0' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND REUSE MAIN, OR STORM SEWER PIPE AND STRUCTURES. CONTRACTOR SHALL MAINTAIN 6' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND FORCE MAIN OR GRAVITY SANITARY SEWER MAINS AND MANHOLES.
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8. FIRE HYDRANTS SHALL BE LOCATED 3.0' TO 10.0' OFF OF BACK OF CURB (MEASURED FROM THE OUTSIDE OF THE HYDRANT).
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CONNELLY & WICKER, LLC
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PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
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WATER AND SEWER PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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1~ 6" FIRE HYDRANT ASSEMBLY

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

2~ 8" 45° BENDS

WM OVER RE (36" MIN. COVER, 12" MIN. SEPARATION)

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

NATURAL / VEGETATIVE UPLAND BUFFER

SJRWMD JURISDICTIONAL WETLANDS

MH# 131, TYPE "A"
STA. 10+65.00, 0'
TOP EL. = 86.24
INV. IN = 80.83 SE
INV. OUT = 80.25 W

MH# 127, TYPE "A"
STA. 10+00.00, 0'
TOP EL. = 85.90
INV. IN = 80.00 E
INV. IN = 79.65 SW
INV. OUT = 79.55 N

1.5" DOUBLE WATER SERVICE (TYP.)

184 L.F. ~ 8" PVC (SDR-26) @ S = 1.10%

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

1~ 8" TEE
3~ 8" GATE VALVES
4~ 8" 22.5° BENDS

63 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

260 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

10' UTILITY ESM'T (TYP.)

ROAD X

MH# 132, TYPE "A"
STA. 13+25.00, 0'
TOP EL. = 87.62
INV. IN = 81.97 SE
INV. OUT = 81.87 NW

SMF-17
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

NORMAL WATER LEVEL

TOP OF BANK

MH# 128, TYPE "A"
STA. 24+75.00, 0'
TOP EL. = 87.01
INV. IN = 81.78 S
INV. OUT = 81.68 NE

4~ 8" 22.5° BENDS
1~ 6" FIRE HYDRANT ASSEMBLY

72 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

NATURAL / VEGETATIVE UPLAND BUFFER

1~ 6" FIRE HYDRANT ASSEMBLY

245 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

1" SINGLE WATER SERVICE (TYP.)

8" PVC (DR18) WATER MAIN 5.5' INSIDE ROW

MH# 133, TYPE "A"
STA. 15+70.00, 0'
TOP EL. = 87.08
INV. IN = 83.05 S
INV. OUT = 82.95 NW

MH# 129, TYPE "A"
STA. 24+00.00, 0'
TOP EL. = 87.45
INV. IN = 82.17 SE
INV. OUT = 82.07 N

10' UTILITY ESM'T (TYP.)

1" SINGLE WATER SERVICE (TYP.)

395 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

5~ 8" 11.25° BENDS
1~ 6" FIRE HYDRANT ASSEMBLY

93 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 134, TYPE "A"
STA. 16+65.00, 0'
TOP EL. = 87.60
INV. IN = 83.52 S
INV. OUT = 83.42 N

1~ 8" TEE
3~ 8" 11.25° BENDS
3~ 8" GATE VALVES
1~ 6" FIRE HYDRANT ASSEMBLY

4~ 8" 22.5° BENDS

83 L.F. ~ 8" PVC (SDR-26) @ S = 0.40%

MH# 135, TYPE "A"
STA. 17+50.00, 0.00'
TOP EL. = 87.88
INV. IN (6")= 84.02 W
INV. IN (6")= 84.02 S
INV. OUT = 83.85 N

SJRWMD JURISDICTIONAL WETLANDS

TOP OF BANK

NORMAL WATER LEVEL

SMF-19
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

MH# 130, TYPE "A"
STA. 20+05.00, 0.00'
TOP EL. = 87.77
INV. IN (6")= 83.92 NE
INV. OUT = 83.75 NW

WM OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

2~ 8" 45° BENDS

3' MIN. HORIZONTAL SEPARATION BETWEEN WM AND RE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE TYP.)

ROAD W

10' UTILITY ESM'T (TYP.)

1~ 8" GATE VALVE
1~ 8" PLUG FOR FUTURE CONNECTION
1~ 2" FLUSHING HYDRANT
1~ BACTERIOLOGICAL SAMPLING POINT #28

NOTES:
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KEYMAP

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3063 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DOG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	10R

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CONNECT PROPOSED 12" PVC (DR18) WATERMAIN TO 12" STUBOUT FOR HILLSIDE GROVE PHASE 1 (UNDER SEPARATE PERMIT), COORDINATE CONNECTION WITH UTILITY PROVIDER. (CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)
1~ BACTERIOLOGICAL SAMPLING POINT #SR19-01

1~ 6" FIRE HYDRANT ASSEMBLY

PROPOSED 12" WATER MAIN (24' OFF R/W, TO BE CONSTRUCTED AS PART OF PHASE 3)

SURVEY LOCATION OF EXISTING 4" WATER MAIN (TO REMAIN)

MATCHLINE SEE SHEET 9V

MATCHLINE SEE SHEET 11V

WATER MAIN CONSTRUCTION TO CONTINUE ON ROAD J, SEE WATER AND SEWER PLAN (SHEET 10N) FOR WM CONTINUATION

1~ 12"X8" TEE
2~ 12" GATE VALVES
1~ 8" GATE VALVE
1~ 2" FLUSHING HYDRANT
1~ BACTERIOLOGICAL SAMPLING POINT #SR19-03
2~ 12" 45° BENDS

MAINTAIN 3.0' MIN SEPARATION BETWEEN OUTSIDE OF WM AND OUTSIDE OF STORM STRUCTURE (TYP.)

FORCE MAIN CONSTRUCTION TO CONTINUE ON ROAD J, SEE WATER AND SEWER PLAN (SHEET 10N) FOR FM CONTINUATION

DIRECTIONAL DRILL ENTRY PIT
TRANSITION 4" PVC (DR18) WM TO 6" HDPE (DR11) (BENDS AND FITTINGS AS REQ'D)

WM OVER FM (36" MIN COVER, 18" MIN. SEPARATION)

WM OVER EXISTING WATER SERVICE (36" MIN COVER, 12" MIN. SEPARATION)

1~ 6" FIRE HYDRANT ASSEMBLY

2~ 12" 45° BENDS

1 ~ 12" GATE VALVE
1~ 2" FLUSHING HYDRANT
1~ BACTERIOLOGICAL SAMPLING POINT #30

EXISTING 4" WATER MAIN (TO REMAIN IN SERVICE)

PROPOSED 12" WATER MAIN (TO BE CONSTRUCTED AS PART OF PHASE 3)

CONNECT PROPOSED 12" PVC (DR18) WATERMAIN TO EXISTING 12" WATERMAIN STUBOUT, COORDINATE CONNECTION WITH UTILITY PROVIDER. (CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

2~ 12" 45° BENDS
1~ 2" FLUSHING HYDRANT
1~ BACTERIOLOGICAL SAMPLING POINT #SR19-02

S.R. 19

DIRECTIONAL DRILL 6" HDPE (DR11) FM UNDER FDOT ROADWAY

FM OVER EXISTING WATER SERVICE (36" MIN COVER, 12" MIN. SEPARATION)

AS-BUILT LOCATION OF EXISTING 6" FORCE MAIN

MAINTAIN 6.0' MIN HORIZONTAL SEPARATION BETWEEN OUTSIDE OF WM AND OUTSIDE OF FM

WM UNDER FM (12" MIN. SEPARATION)

TRANSITION 6" HDPE (DR11) WM TO 4" PVC (DR18) (BENDS AND FITTINGS AS REQ'D)
1~ 4" 90° BEND
DIRECTIONAL DRILL EXIT PIT

4" PVC (DR18) FM 12' OFF R/W

CONNECT PROPOSED 4" PVC (DR18) FORCE MAIN TO EXISTING 6" FORCE MAIN VIA 6"x4" TAPPING SADDLE AND 4" TAPPING VALVE. COORDINATE CONNECTION WITH UTILITY PROVIDER. (CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

EXISTING LIFT STATION

SURVEY LOCATION OF EXISTING 6" FORCE MAIN

MATCHLINE SEE SHEET 9V

40'

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

SR-19 WATER AND SEWER PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: APR 2025	
Scale: 1" = 40'	
Sheet 10V	

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PHASE 1A
PHASE 4

CONNECT PROPOSED 8" RECLAIMED MAIN TO 8" RECLAIMED MAIN STUB OUT (UNDER CONSTRUCTION BY OTHERS, COORDINATE UTILITY CONNECTION WITH UTILITY PROVIDER. CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL FIELD VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

8" PVC (DR18) REUSE MAIN 7.0' INSIDE R/W WHERE ADJACENT TO FM (TYP.)

10' UTILITY ESM'T (TYP.)

1~ 8" TEE
3~ 8" GATE VALVES
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

ROAD C

10' UTILITY ESM'T (TYP.)

RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
1~ 8" 11.25° BEND
2~ 8" 45° BENDS
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

NORMAL WATER LEVEL

TOP OF BANK

HATCHED AREA IS PHASE 4 CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

NOTES:
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KEYMAP

CW PRIME

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A7			
A6			
A5			
A4			
A3			
A2			
A1			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS, P.E.
NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
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Scale:	1" = 40'
Sheet	11B

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KEYMAP

SJRWMD JURISDICTIONAL WETLANDS

TOP OF BANK
NORMAL WATER LEVEL
SMF-07 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
NORMAL WATER LEVEL
TOP OF BANK

PHASE 2
PHASE 1B

PHASE 3
PHASE 1B

HATCHED AREA IS PHASE 1B CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

HATCHED AREA IS PHASE 1B CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

ROAD N
ROAD J
ROAD P
ROAD B

4~ 8" 11.25° BENDS
1~ 8" TEE
3~ 8" GATE VALVES
2~ 8" 45° BENDS
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)
1" SINGLE REUSE SERVICE (TYP.)
4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
10' UTILITY ESM'T (TYP.)
1.5" DOUBLE REUSE SERVICE (TYP.)
2~ 8" 22.5° BENDS
1~ 8" 11.25° BEND
CONNECT PROPOSED 8" RECLAIMED MAIN TO 8" RECLAIMED MAIN STUB OUT (UNDER CONSTRUCTION BY OTHERS, COORDINATE UTILITY CONNECTION WITH UTILITY PROVIDER. CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL FIELD VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

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8060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
Q.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	11E

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HED AREA IS PHASE 1A
TRUCTION AND SHOWN
NFORMATIONAL PURPOSES

SJRWMD
JURISDICTIONAL
WETLANDS

NOTES:
1. REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
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40'

KEYMAP

CONNECT PROPOSED 8" RECLAIMED MAIN TO 8" RECLAIMED MAIN STUB OUT (UNDER CONSTRUCTION BY OTHERS, COORDINATE UTILITY CONNECTION WITH UTILITY PROVIDER. CONTRACTOR SHALL USE CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHALL FIELD VERIFY SIZE, MATERIAL, LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO SHOP DRAWING SUBMITTAL AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY)

RE UNDER ST (36" MIN. COVER, 12" MIN. SEPARATION)

8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

10' UTILITY ESM'T (TYP.)

ROAD N

10' UTILITY ESM'T (TYP.)

TOP OF BANK
NORMAL WATER LEVEL
SMF-09
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

TOP OF BANK
NORMAL WATER LEVEL
SMF-10
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

10' UTILITY ESM'T (TYP.)

SJRWMD
JURISDICTIONAL
WETLANDS

MCP 24"=80.45'
MCP 24"=80.65'

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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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ROAD O

6" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
RE OVER ST (36" MIN. COVER, 6" MIN. SEPARATION)

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1~ 6" 22.5° BEND

TOP OF BANK
NORMAL WATER LEVEL
SMF-11
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

D AREA IS PHASE 1A
UCTION AND SHOWN FOR
ATIONAL PURPOSES ONLY

SJRWMD JURISDICTIONAL WETLANDS

MCP 24"=80.89'
MCP 24"=81.42'

40'

KEYMAP

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CW PRIME

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A.			
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A.			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	11H

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1~ 2" FLUSHING HYDRANT

1~ 4" PLUG TAPPED AT 2"

4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

10' UTILITY ESM'T (TYP.)

10' UTILITY ESM'T (TYP.)

1~ 6"x4" REDUCER

6" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

1~ 6" GATE VALVE

ROAD O

NATURAL VEGETATIVE UPLAND BUFFER

SJRWMD JURISDICTIONAL WETLANDS

6" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

RE OVER ST (36" MIN. COVER, 6" MIN. SEPARATION)

CONNECT PROPOSED 8" RECLAIMED MA
RECLAIMED MAIN STUB OUT (UNDER CONSTRUC
OTHERS, COORDINATE UTILITY CONNECTION WITH
PROVIDER. CONTRACTOR SHALL USE CAUTIO
WORKING NEAR EXISTING UTILITIES AND SHA
VERIFY SIZE, MATERIAL, LOCATION AND ELEVA
ALL UTILITIES PRIOR TO SHOP DRAWING SUBMIT
IMMEDIATELY NOTIFY ENGINEER OF ANY DISCR
1~ 6" 22

TOP OF BANK

NORMAL WATER LEVEL

SMF-11
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

PHASE 2
PHASE 1

HATCHED AREA IS PHASE 1A CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

KEYMAP

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40'

CW PRIME

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A.			
A.			
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A.			
A.			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER 69260
Reg. Engineer

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Project No.: 24-01-0079
Designed: JEW
Drawn: DCG
Checked: JEW
O.C.: RCW
Date: APR 2025
Scale: 1" = 40'

Sheet 11I

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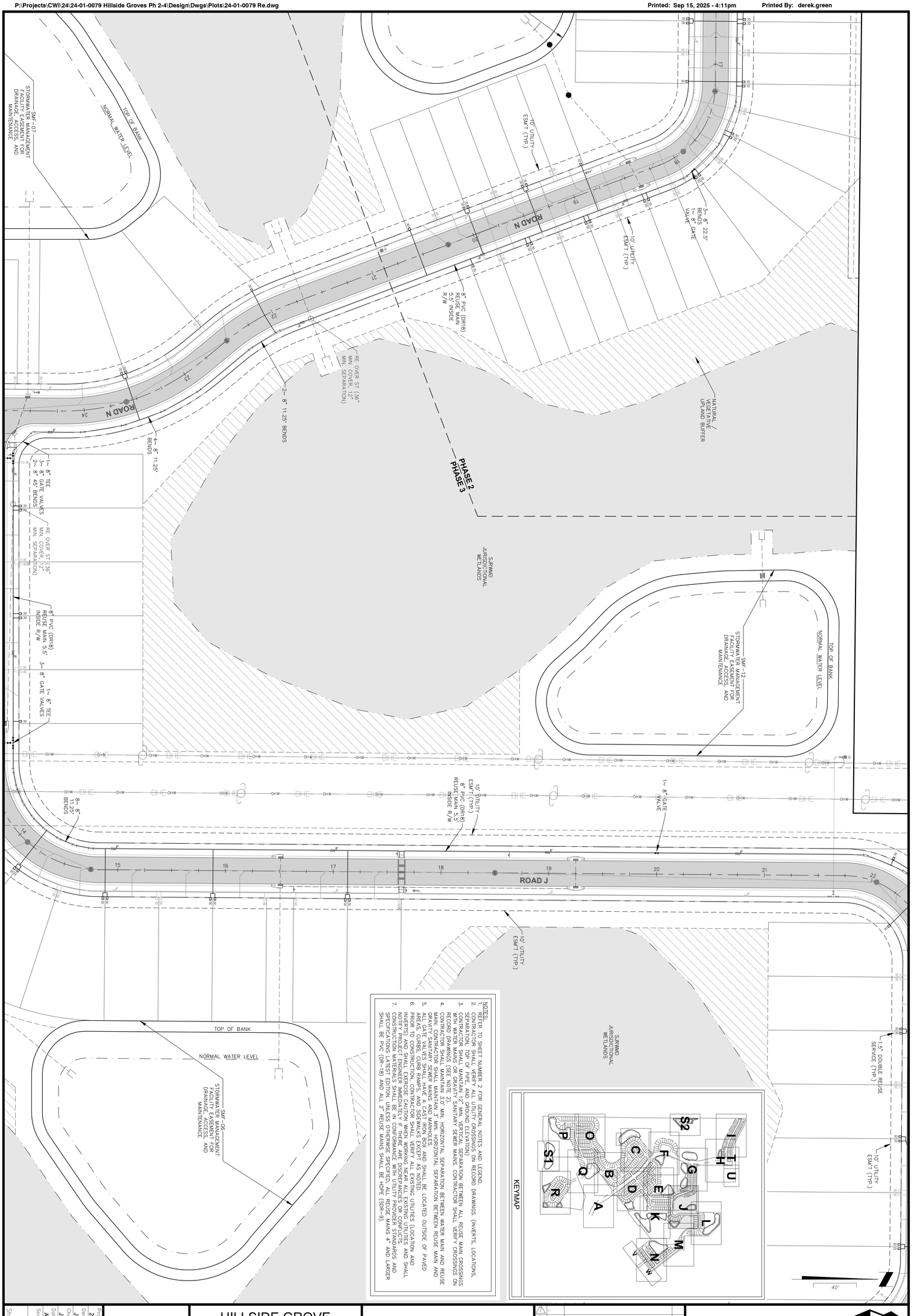

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Project No.: 24-01-0079	JUSTIN ELLERY WILLIAMS P.E. NUMBER: 69260 Reg. Engineer	HILLSIDE GROVE PHASES 2-4 HOWEY IN THE HILLS PREPARED FOR MERITAGE HOMES	RECLAIMED WATER DISTRIBUTION PLAN
Designed: JEW Drawn: DCG			
Checked: JEW Q.C.: RCW			
Date: APR 2025			
Scale: 1" = 40'			
Sheet 11J			

No.	Date	Revision	By
7			
6			
5			
4			
3			
2			
1			

CW PRIME AE
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

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1~ 8" TEE
3~ 8" GATE VALVES
2~ 8" 45° BENDS

RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

ROAD J

RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

2~ 8" 45° BENDS

1" SINGLE REUSE SERVICE (TYP.)

4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

TOP OF BANK

NORMAL WATER LEVEL

SMF-05 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

10' UTILITY ESM'T (TYP.)

1.5" DOUBLE REUSE SERVICE (TYP.)

ROAD P

ROAD B

SJRWMD JURISDICTIONAL WETLANDS

PHASE 3
PHASE 1A

EXISTING 8" WELL LOCATION. CONNECT PROPOSED 8" PVC (DR18) RECLAIM MAIN TO EXISTING WELL. WELL PUMP AND OTHER EQUIPMENT SHALL BE DESIGNED BY OTHERS AND PROVIDE XXXX GPM @ XXX FEET OF HEAD. PROPOSED GRADE EL. 88.8

SECURITY FENCE FOR WELL AND EQUIPMENT CONTROLS (DESIGN BY OTHERS)

2~ 8" 45° BENDS
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

4~ 8" 22.5° BENDS

1~ 8" TEE
3~ 8" GATE VALVES

8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

2~ 8" 22.5° BENDS
1~ 8" 11.25° BEND

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NATURAL VEGETATIVE UPLAND BUFFER

PHASE 3
PHASE 1A

HATCHED AREA IS PHASE 1A CONSTRUCTION AND SHOWN FOR INFORMATIONAL PURPOSES ONLY

40'

KEYMAP

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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A7			
A6			
A5			
A4			
A3			
A2			
A1			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Designed:	JEW
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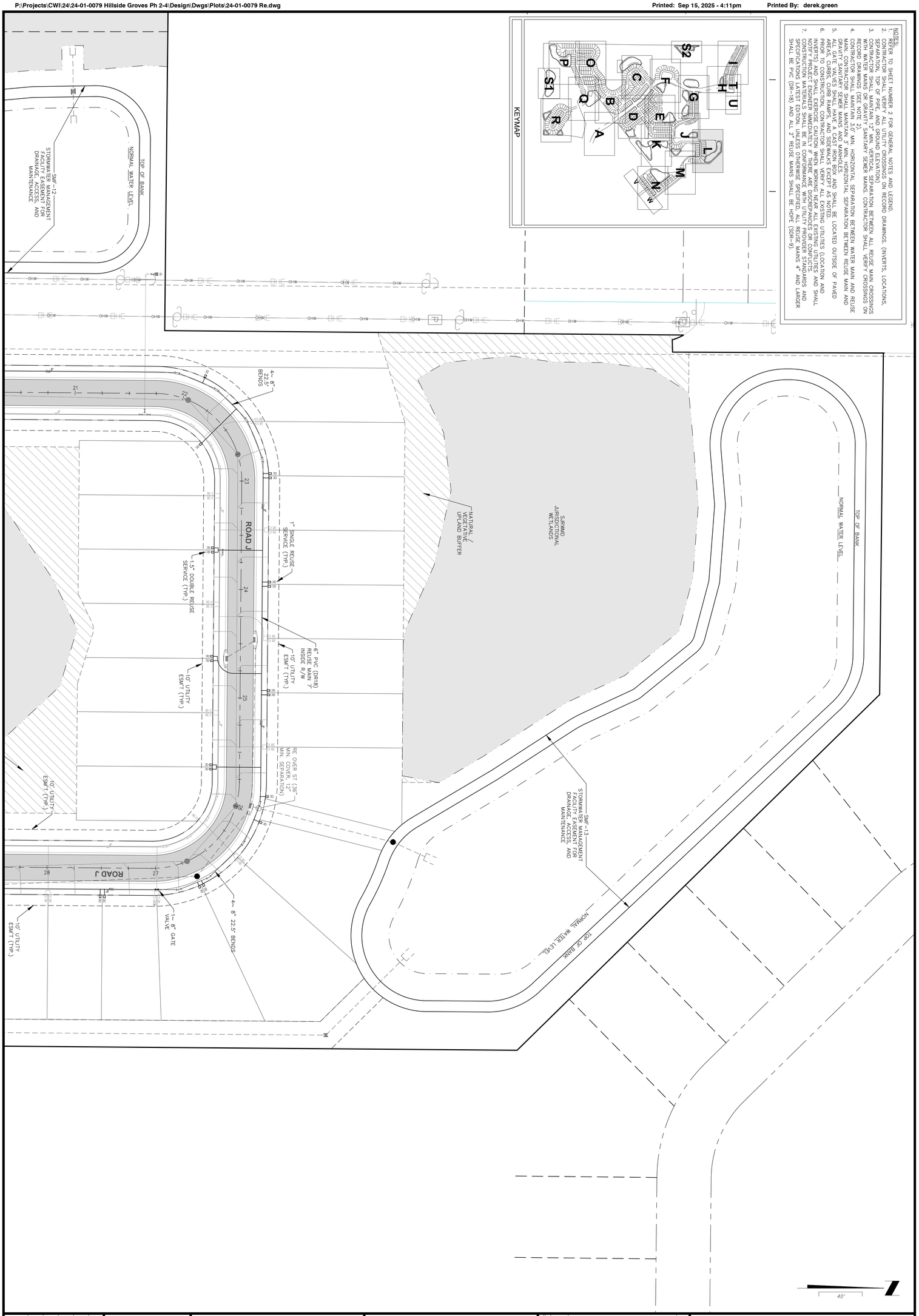
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	11K



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11L	24-01-0079	JEW	DCG	JEW	APR 2025	1" = 40'

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

RECLAIMED WATER
DISTRIBUTION PLAN

No.	Date	Revision	By
7	..		
6	..		
5	..		
4	..		
3	..		
2	..		
1	..		

CW | PRIME AE

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

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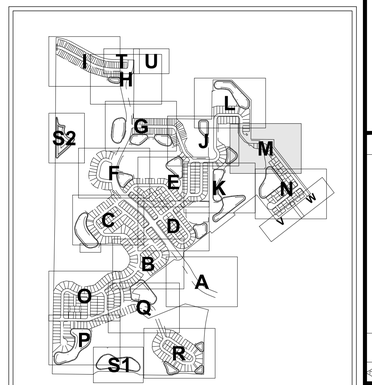

KEYMAP

10' UTILITY ESM'T (TYP.)
NATURAL VEGETATIVE UPLAND BUFFER
10' UTILITY ESM'T (TYP.)
1~ 8"x6" REDUCER
4~ 6" 11.25° BENDS
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)
ROAD J
MAINTAIN 3' MIN. SEPARATION BETWEEN REUSE MAIN AND FORCE MAIN (OUTSIDE OF PIPE TO OUTSIDE OF PIPE, TYP.)
4~ 6" 11.25° BENDS
10' UTILITY ESM'T (TYP.)
RE OVER FM (36" MIN. COVER, 12" MIN. SEPARATION)
CONTRACTOR TO MARK WITH POST THE LOCATION, DEPTH, SIZE AND MATERIAL OF STUBOUT FOR FUTURE CONNECTION.
10' UTILITY ESM'T
1~ 6" TEE
3~ 6" GATE VALVES
1~ 2" FLUSHING HYDRANT
5~ 6" 11.25° BENDS
ROAD J
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
6" PVC (DR18) REUSE MAIN 7' INSIDE R/W WHEN ADJACENT TO FORCEMAIN
MCP 24"=79.52'
MCP 24"=78.74'
SJRWMD JURISDICTIONAL WETLANDS
ROAD J
NORMAL WATER LEVEL
TOP OF BANK
SMF-14 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)
1~ 6"X4" TEE
1~ 6" GATE VALVE
2~ 4" GATE VALVES
1~ 6"x4" REDUCER
40'

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079
Designed: JEW | Drawn: DCG
Checked: JEW | O.C.: RCW
Date: APR 2025
Scale: 1" = 40'
Sheet 11M

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SMF-14
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE

SJRWMD JURISDICTIONAL WETLANDS

RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

1~ 6"X4" TEE
1~ 6" GATE VALVE
2~ 4" GATE VALVES
1~ 6"x4" REDUCER

2~ 4" 45° BENDS

1" SINGLE REUSE SERVICE (TYP.)

10' UTILITY ESM'T (TYP.)

MAINTAIN 3' MIN. SEPARATION BETWEEN REUSE MAIN AND FORCE MAIN (OUTSIDE OF PIPE TO OUTSIDE OF PIPE, TYP.)

4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

4" PVC (DR18) REUSE MAIN 7' INSIDE R/W WHEN ADJACENT TO FORCEMAIN

ROAD Q

ROAD J

ROAD R

5~ 4" 22.5° BENDS
1~ 4" 11.25° BEND

1~ 4" PLUG TAPPED AT 2"

1.5" DOUBLE REUSE SERVICE (TYP.)

1~ 4" 90° BEND
1~ 4" GATE VALVE

2" HDPE (SDR9) REUSE MAIN 9.5' INSIDE R/W WHEN ADJACENT TO WATERMAIN

1~ 2" FLUSHING HYDRANT

WATERLINE & MAINLINES

FOM

KEYMAP

NOTES:
1. REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS. (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE, AND GROUND ELEVATION)
3. CONTRACTOR SHALL MAINTAIN 12" MIN. VERTICAL SEPARATION BETWEEN ALL REUSE MAIN CROSSINGS WITH WATER MAINS OR GRAVITY SANITARY SEWER MAINS. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (SEE NOTE 2).
4. CONTRACTOR SHALL MAINTAIN 3.0' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND REUSE MAIN. CONTRACTOR SHALL MAINTAIN 3' MIN. HORIZONTAL SEPARATION BETWEEN REUSE MAIN AND GRAVITY SANITARY SEWER MAINS AND MANHOLES.
5. ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUTSIDE OF PAVED AREAS, CURBS, CURB RAMPS, AND SIDEWALKS EXCEPT AS NOTED.
6. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
7. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH UTILITY PROVIDER STANDARDS AND SPECIFICATIONS LATEST EDITION. UNLESS OTHERWISE SPECIFIED, ALL REUSE MAINS 4" AND LARGER SHALL BE PVC (DR-18) AND ALL 2" REUSE MAINS SHALL BE HDPE (SDR-9).

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PH: 904-268-3063 FAX: 904-286-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	11N

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NOTES:
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KEYMAP

SJRWMD JURISDICTIONAL WETLANDS

NATURAL / VEGETATIVE UPLAND BUFFER

ROAD C

ROAD AA

ROAD DD

ROAD Z

1~ 8" 11.25° BEND
5~ 8" 22.5° BENDS

1~ 8"x4" TEE
2~ 8" GATE VALVES
1~ 4" GATE VALVE

8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

10' UTILITY ESM'T (TYP.)

1" SINGLE REUSE SERVICE (TYP.)

1.5" DOUBLE REUSE SERVICE (TYP.)

RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)

RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)

2~ 4" 45° BENDS

3~ 4" 11.25° BENDS

4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF WM (TYP.)

1~ 4" 45° BEND
1~ 4" 22.5° BEND

1~ 8"x4" TEE
2~ 8" GATE VALVES
1~ 4" GATE VALVE

8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W

1~ 8" TEE
3~ 8" GATE VALVES

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PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
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3			
4			
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RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Date:	APR 2025
Scale:	1" = 40'
Sheet	110

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2~ 8" 45° BENDS
MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF WM (TYP.)
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF WM (TYP.)
2~ 4" 45° BENDS
ROAD DD
1~ 8"x4" TEE
2~ 8" GATE VALVES
1~ 4" GATE VALVE
10' UTILITY ESM'T (TYP.)
1~ 8" TEE
1~ 4" GATE VALVE
2~ 8" GATE VALVES
1~ 8"X4" REDUCER
2~ 8" 45° BENDS
2~ 8" 45° BENDS
MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF WM (TYP.)
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
1~ 8"x4" TEE
2~ 8" GATE VALVES
1~ 4" GATE VALVE
8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
2~ 8" 11.25° BENDS
10' UTILITY ESM'T (TYP.)
10' UTILITY ESM'T (TYP.)
10' UTILITY ESM'T (TYP.)
TOP OF BANK
NORMAL WATER LEVEL
NATURAL VEGETATIVE UPLAND BUFFER
4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
ROAD C
1.5" DOUBLE REUSE SERVICE (TYP.)
1" SINGLE REUSE SERVICE (TYP.)
1~ 4" 22.5° BEND
1~ 4" PLUG TAPPED AT 2"
1~ 2" FLUSHING HYDRANT
2" HDPE (SDR9) REUSE MAIN 9.5' OFF R/W WHEN ADJACENT TO WATERMAIN
MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF WM (TYP.)
SMF-16
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
SJRWMD JURISDICTIONAL WETLANDS
DIP 12"=80.16'
40'

KEYMAP

NOTES:
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CONNELLY & WICKER, LLC
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PH: 904-265-3003 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

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JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	Custom

Sheet 11P

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40'

KEYMAP

RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
1~ 8" 11.25° BEND
2~ 8" 45° BENDS
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
10' UTILITY ESM'T (TYP.)
4~ 8" 22.5° BENDS
8" PVC (DR18) REUSE MAIN 7' INSIDE R/W WHEN ADJACENT TO FORCEMAIN
10' UTILITY ESM'T (TYP.)
10' UTILITY ESM'T (TYP.)
1~ 8" 45° BEND
1~ 8" 22.5° BEND
1.5" DOUBLE REUSE SERVICE (TYP.)
MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF FM (TYP.)
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
ROAD Y
ROAD DD
SMF-15 STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
NORMAL WATER LEVEL
TOP OF BANK
3~ 8" 11.25° BENDS
2~ 8" 11.25° BENDS
10' UTILITY ESM'T (TYP.)
5~ 8" 11.25° BENDS
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)
1~ 8" TEE
3~ 8" GATE VALVES
2~ 8" 11.25° BENDS
8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
1~ 8" GATE VALVE
MCP 24"=80.65'
MCP 24"=80.63'
DIP 8"=81.68'
10' UTILITY ESM'T (TYP.)
DIP 8"=81.48'
8" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
NATURAL VEGETATIVE UPLAND BUFFER
SJRWMD JURISDICTIONAL WETLANDS
SJRWMD JURISDICTIONAL WETLANDS

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

RECLAIMED WATER DISTRIBUTION PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 40'
Sheet	11Q

NOTES:
1. REFER TO SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS. (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE, AND GROUND ELEVATION)
3. CONTRACTOR SHALL MAINTAIN 10' MIN. HORIZONTAL SEPARATION BETWEEN ALL REUSE MAIN CROSSINGS WITH WATER MAINS OR GRAVITY SANITARY SEWER MAINS. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (SEE NOTE 2).
4. MAIN CONTRACTOR SHALL MAINTAIN 3' MIN. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND REUSE MAIN. CONTRACTOR SHALL MAINTAIN 3' MIN. HORIZONTAL SEPARATION BETWEEN REUSE MAIN AND GRAVITY SANITARY SEWER MAINS AND MANHOLES.
5. ALL REUSE MAINS SHALL BE LOCATED OUTSIDE OF PAVED AREAS, CURBS, CURB RAMPS, AND SIDEWALKS EXCEPT AS NOTED.
6. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND ELEVATION) AND SHALL NOTIFY PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS WITH PROPOSED IMPROVEMENTS. ALL REUSE MAINS SHALL BE INSTALLED BY A CONTRACTOR WHO IS QUALIFIED TO INSTALL REUSE MAINS.
7. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH UTILITY PROVIDER STANDARDS AND SPECIFICATIONS. ALL REUSE MAINS 4" AND LARGER SHALL BE PVC (DR-18) AND ALL 2" REUSE MAINS SHALL BE HDPE (SDR-9).

KEYMAP

NATURAL VEGETATIVE UPLAND BUFFER
4~ 4" 22.5° BENDS
1" SINGLE REUSE SERVICE (TYP.)
4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
1~ 8"x4" TEE
1~ 8"x4" REDUCER
2~ 4" GATE VALVES
2~ 4" 22.5° BENDS
RE OVER SS (36" MIN. COVER, 12" MIN. SEPARATION)
MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF WM (TYP.)
3~ 4" 11.25° BENDS
1~ 4" 22.5° BEND
1~ 4" 45° BEND
RE OVER ST (36" MIN. COVER, 12" MIN. SEPARATION)
4" PVC (DR18) REUSE MAIN 5.5' INSIDE R/W
STORMWATER MANAGEMENT FACILITY EASEMENT FOR DRAINAGE, ACCESS, AND MAINTENANCE
SMF-19
NORMAL WATER LEVEL
TOP OF BANK
10' UTILITY ESMT (TYP.)
1.5" DOUBLE REUSE SERVICE (TYP.)
ROAD X
ROAD W
MAINTAIN 3' MIN. SEPARATION BETWEEN OUTSIDE OF RE AND OUTSIDE OF WM (TYP.)
1~ 4" 22.5° BEND
1~ 4" 11.25° BEND
2~ 4" 45° BENDS
4~ 4" 45° BENDS
3~ 4" 22.5° BENDS
20' DRAINAGE ACCESS EASEMENT
3~ 4" 11.25° BENDS
SRWMD JURISDICTIONAL WETLANDS
SMF-17

40'

Sheet 11R

Project No. 24-01-0079
Designed JEW
Drawn DCG
Checked JEW
O.C. RCW
Date APR 2025
Scale 1" = 40'

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

RECLAIMED WATER
DISTRIBUTION PLAN

No.	Date	Revision	By
7	..	..	..
6	..	..	..
5	..	..	..
4	..	..	..
3	..	..	..
2	..	..	..
1	..	..	..

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
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NOTES:
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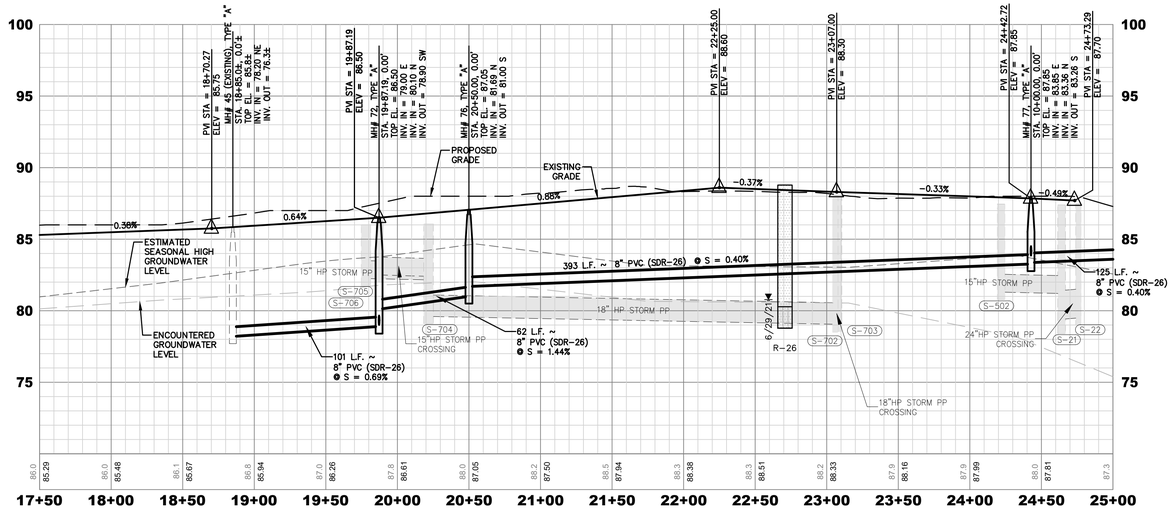
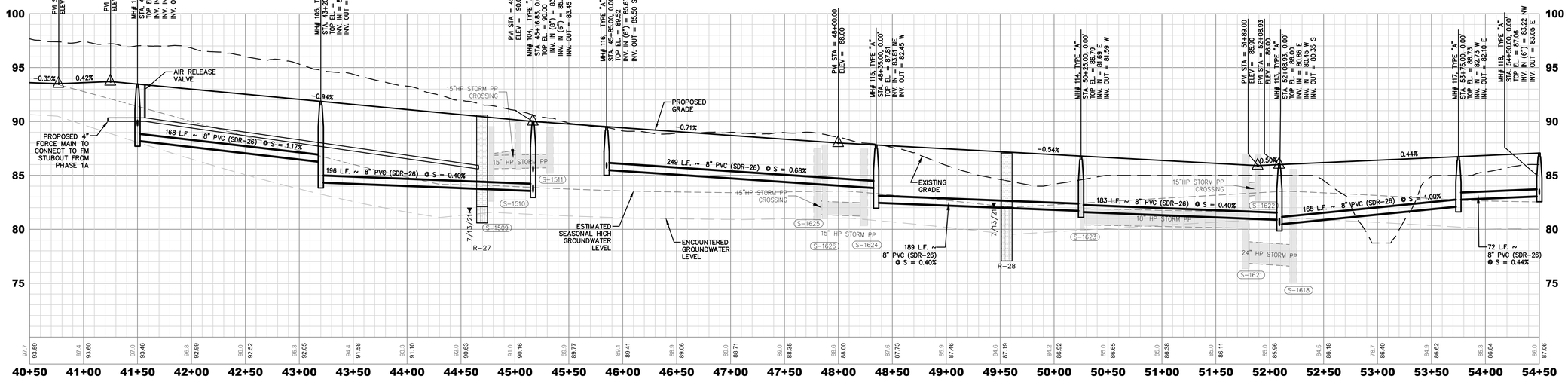
2. PROPOSED PAVEMENT ELEVATIONS SHOWN REFER TO FINAL WEARING SURFACE ELEVATIONS.



ROAD B
(17+50.00–25+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.



ROAD C
(40+50.00–54+50.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	APR 2025
Scale:	1" = 50'

Sheet 12A

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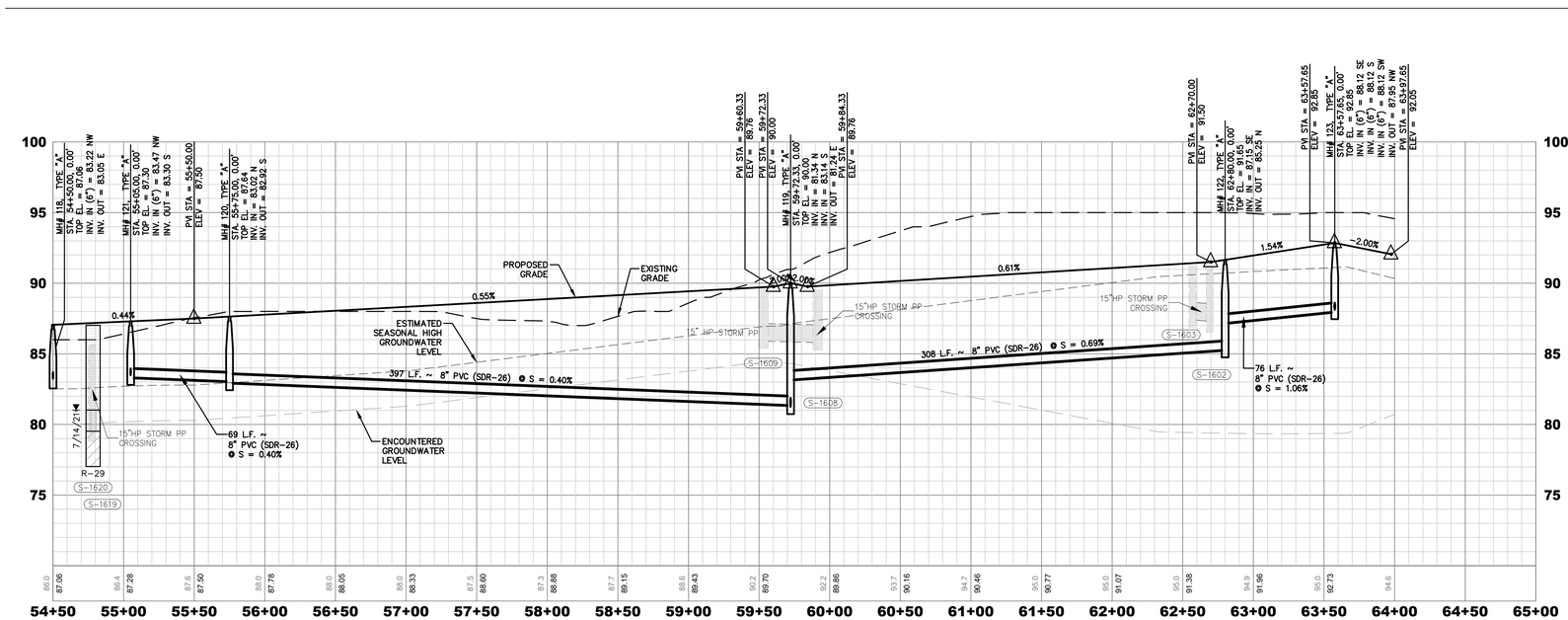
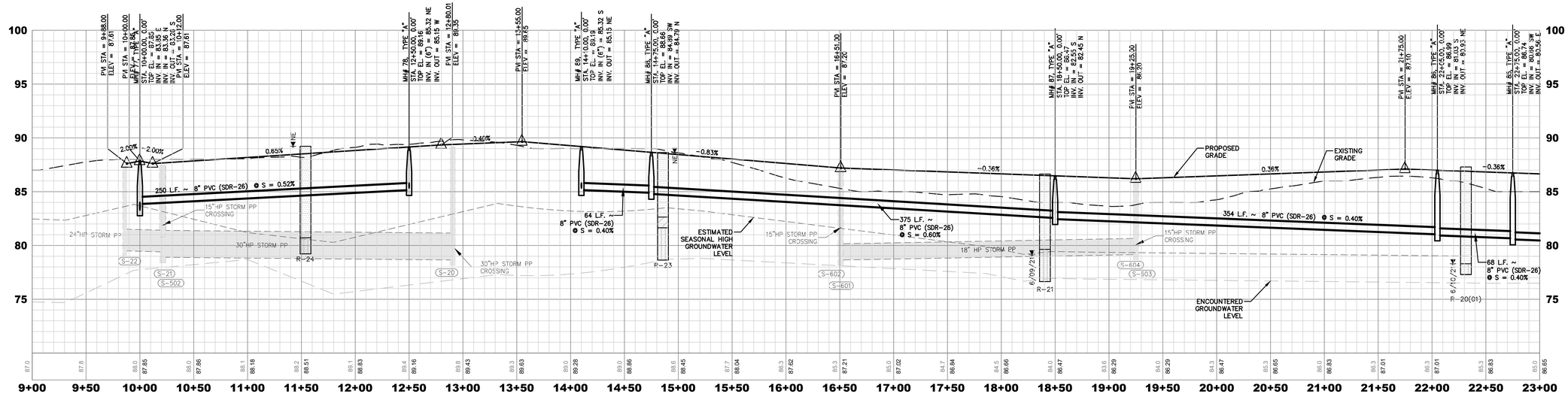


ROAD C
(54+50.00–65+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.



ROAD J
(9+00.00–23+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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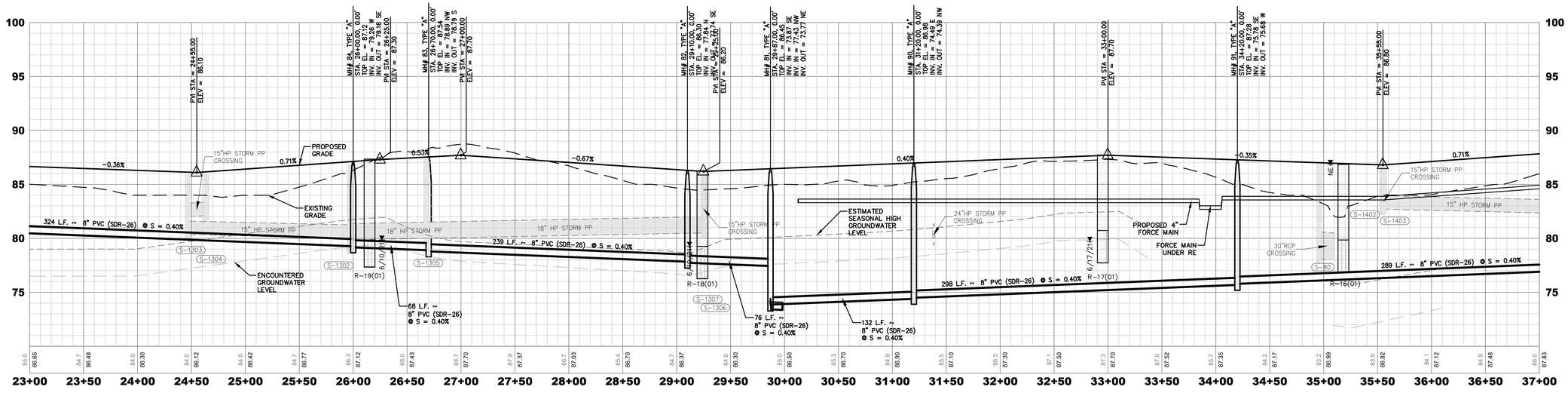
Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 50'

Sheet 12B

Printed: Sep 15, 2025 - 8:36am Printed By: michael.lancellotti

P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 Pro.dwg

NOTES:
1. GEOTECHNICAL INFORMATION AND ROADWAY AUGER BORINGS TAKEN FROM PROJECT GEOTECHNICAL REPORT (REFER TO SHEET NO. 2)
2. PROPOSED PAVEMENT ELEVATIONS SHOWN REFER TO FINAL WEARING SURFACE ELEVATIONS.



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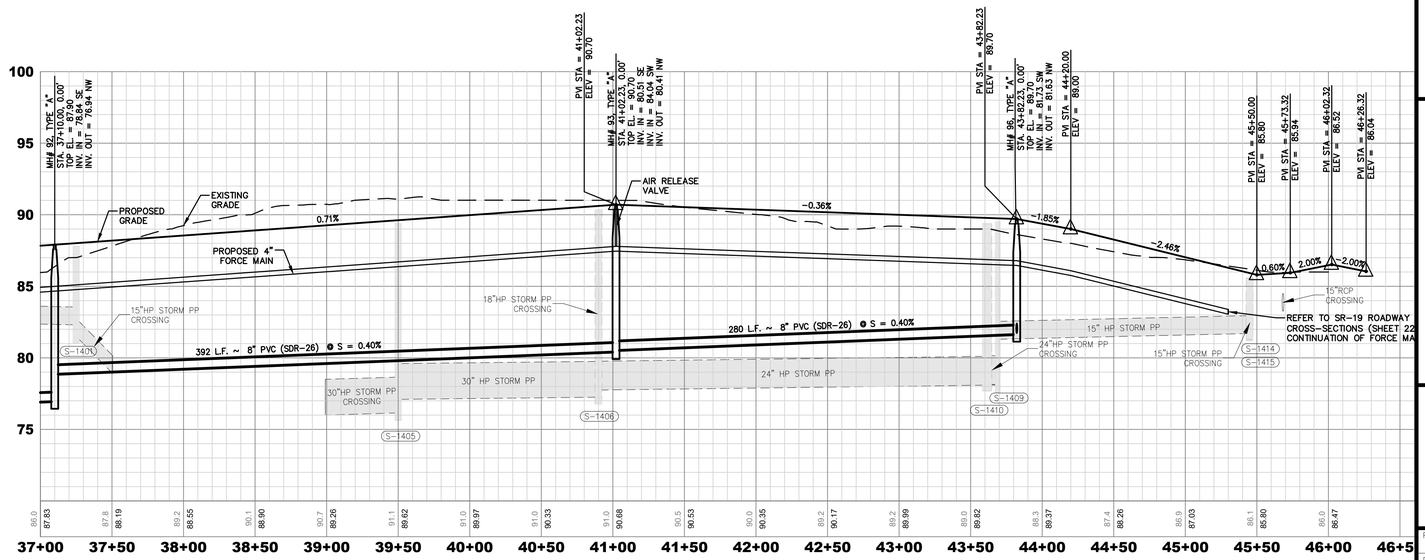
(23+00.00–37+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.



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(37+00.00–47+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079
Designed: JEW | Drawn: DCG
Checked: JEW | O.C.: RCW
Date: APR 2025
Scale: 1" = 50'
Sheet 12C

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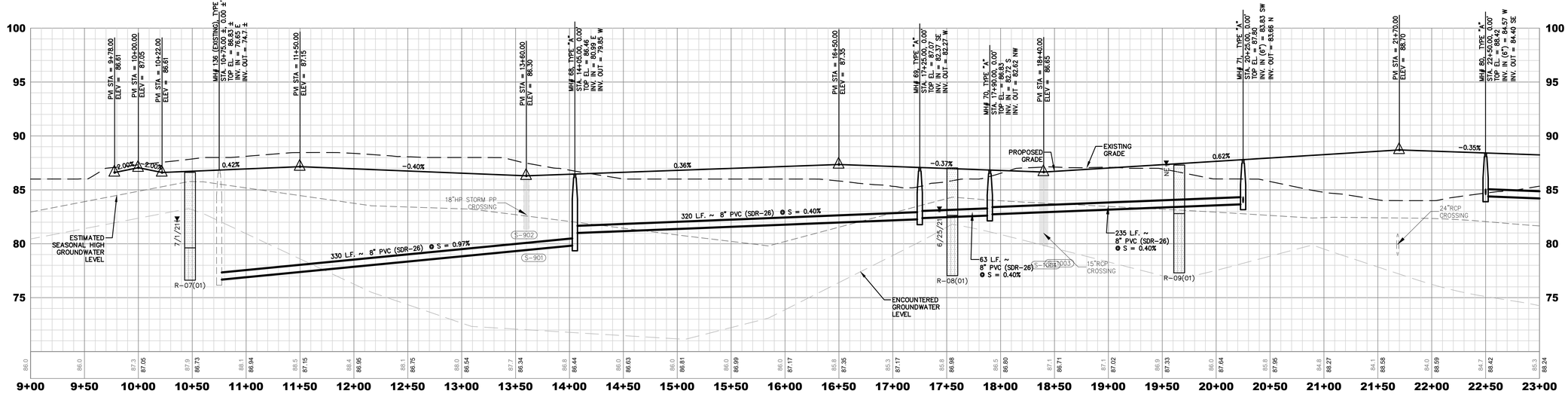

ROAD N
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SCALE: 1"=50' HORZ.
1"=5' VERT.

NOTES:
1. GEOTECHNICAL INFORMATION AND ROADWAY AUGER BORINGS TAKEN FROM PROJECT GEOTECHNICAL REPORT (REFER TO SHEET NO. 2)
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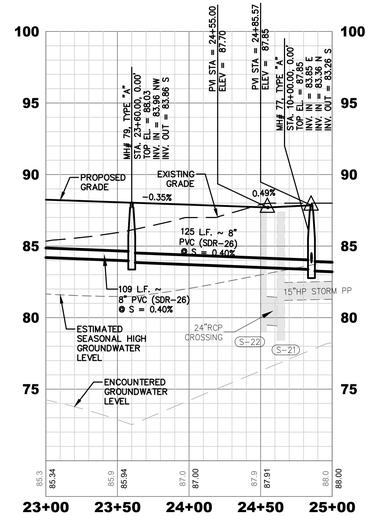

ROAD N
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SCALE: 1"=50' HORZ.
1"=5' VERT.

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10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A	-	-	-
A	-	-	-
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A	-	-	-
A	-	-	-

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	Q.C.: RCW
Date: APR 2025	
Scale: 1" = 50'	
Sheet 12D	

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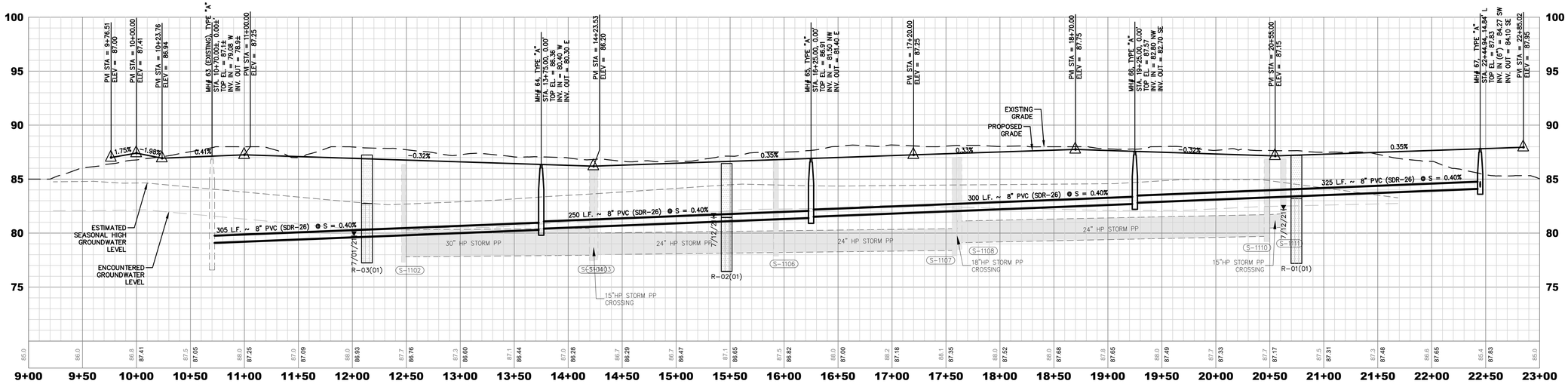

ROAD O
(9+00.00–23+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

NOTES:
1. GEOTECHNICAL INFORMATION AND ROADWAY AUGER BORINGS TAKEN FROM PROJECT GEOTECHNICAL REPORT (REFER TO SHEET NO. 2)
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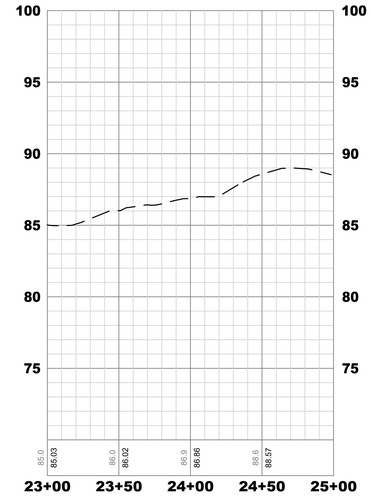

ROAD O
(23+00.00–25+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
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3			
4			
5			

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 50'
Sheet	12E

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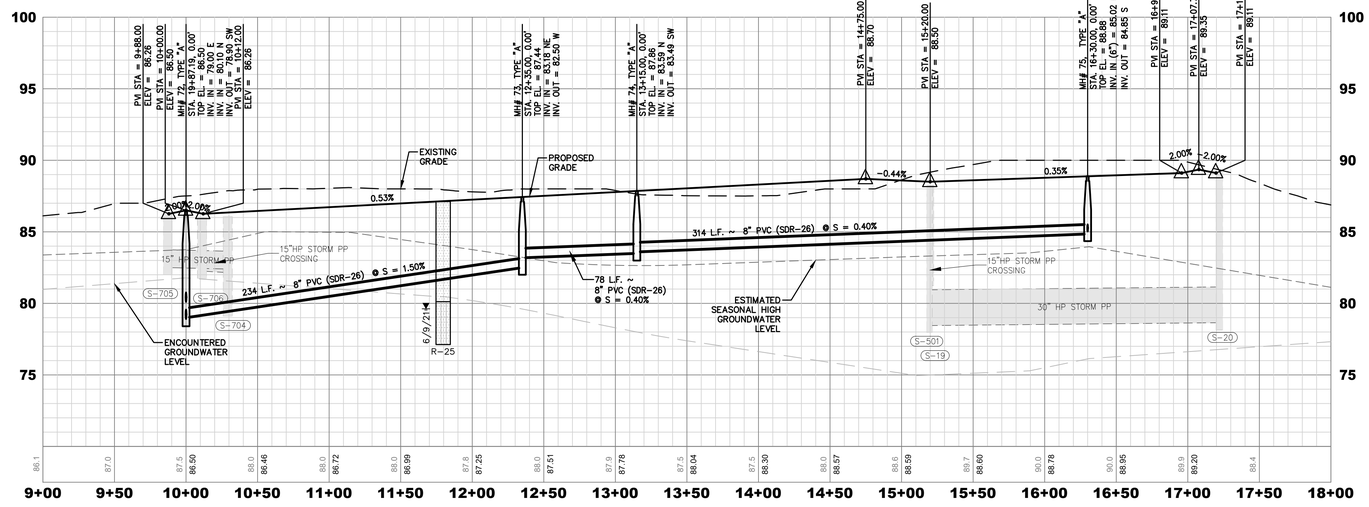

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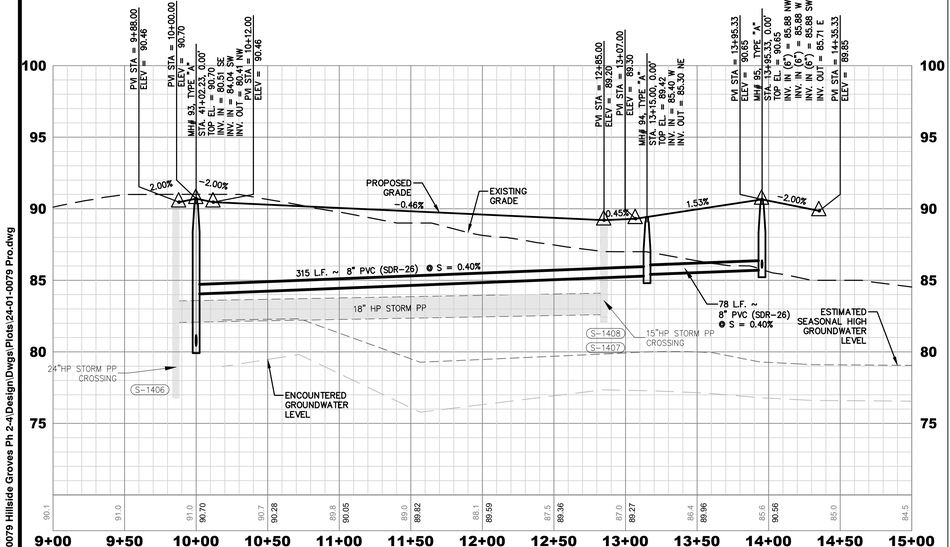
(9+00.00–18+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.



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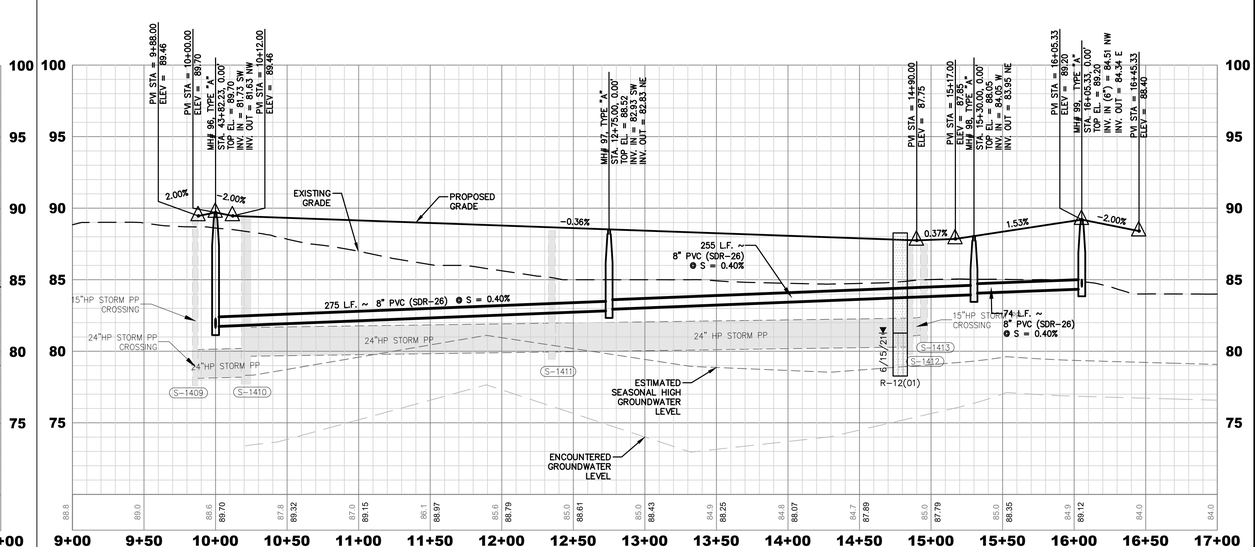
1"=5' VERT.



ROAD R
(9+00.00–17+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

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PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 50'

Sheet 12F

Printed: Sep 15, 2025 - 8:37am Printed By: michael.lancellotti

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NOTES:
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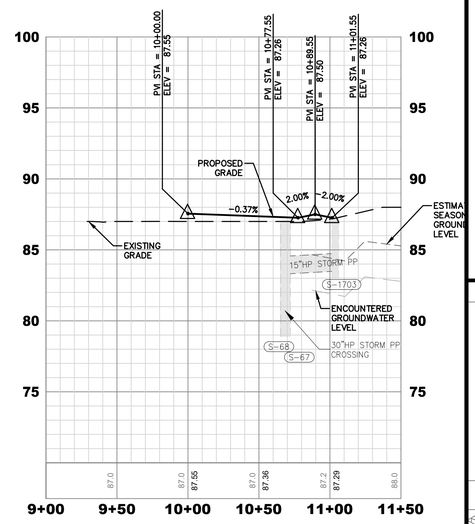

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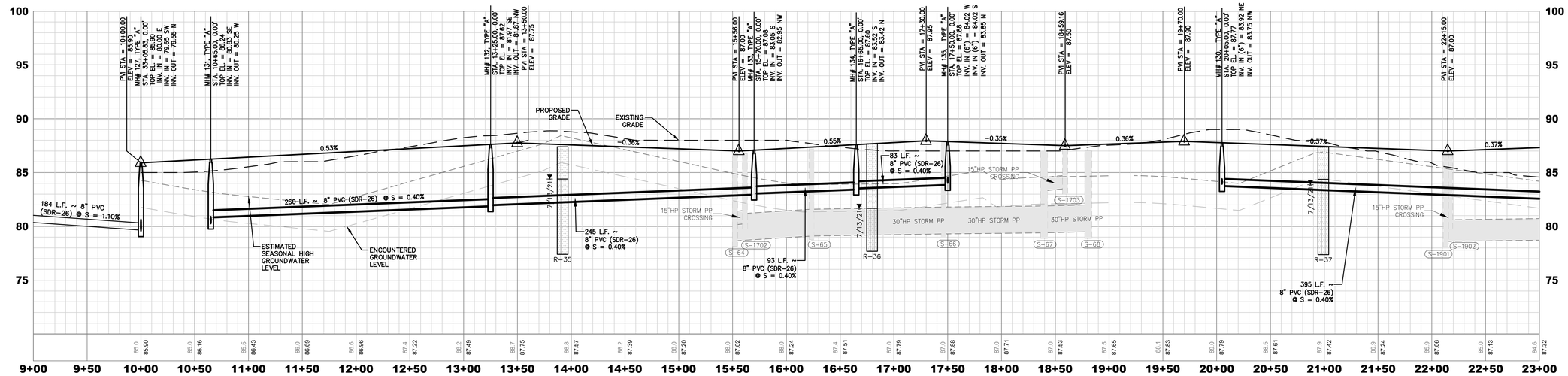
(9+00.00–11+50.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.



ROAD X
(9+00.00–23+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
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4			
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6			

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 50'

Sheet 12G

Printed: Sep 15, 2025 - 8:37am Printed By: michael.lancellotti

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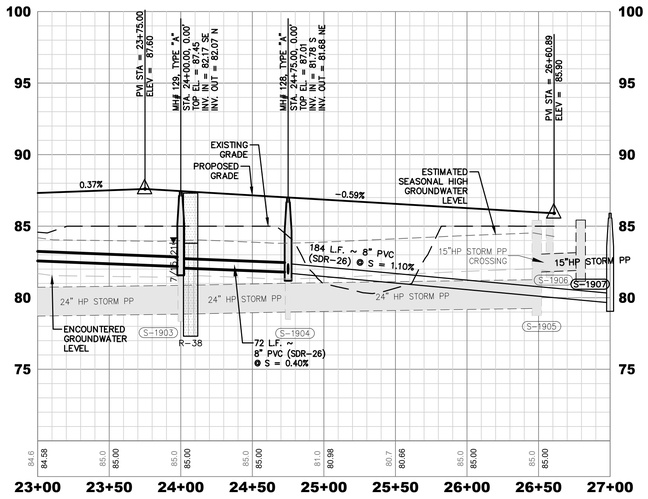

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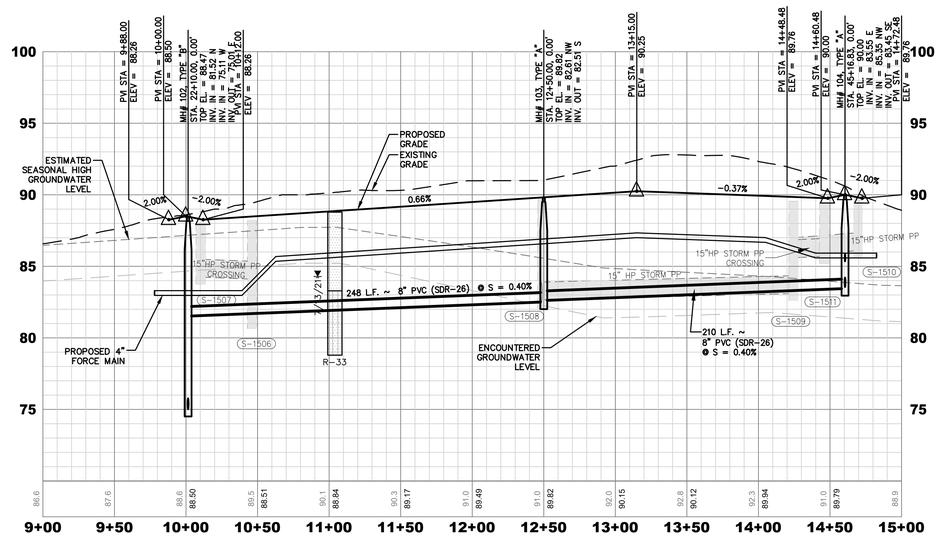
SCALE: 1"=50' HORZ.
1"=5' VERT.



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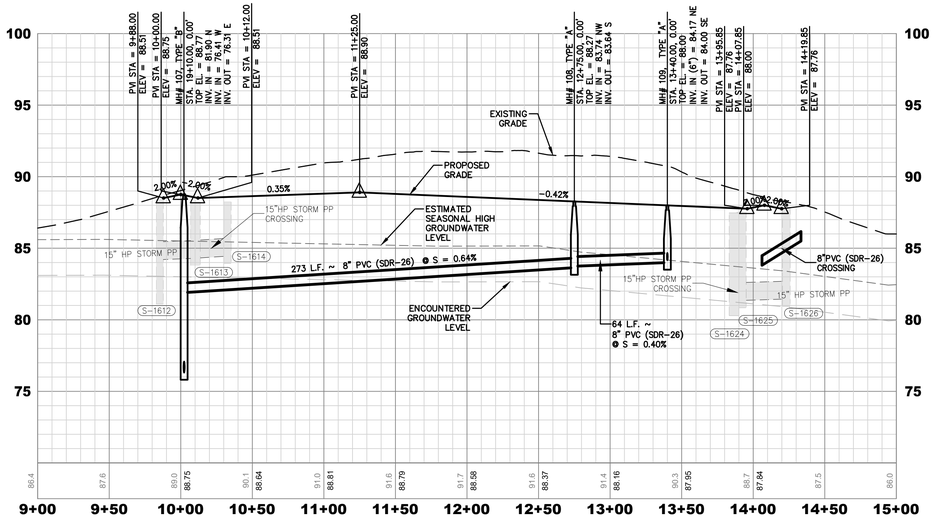
(9+00.00–15+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.



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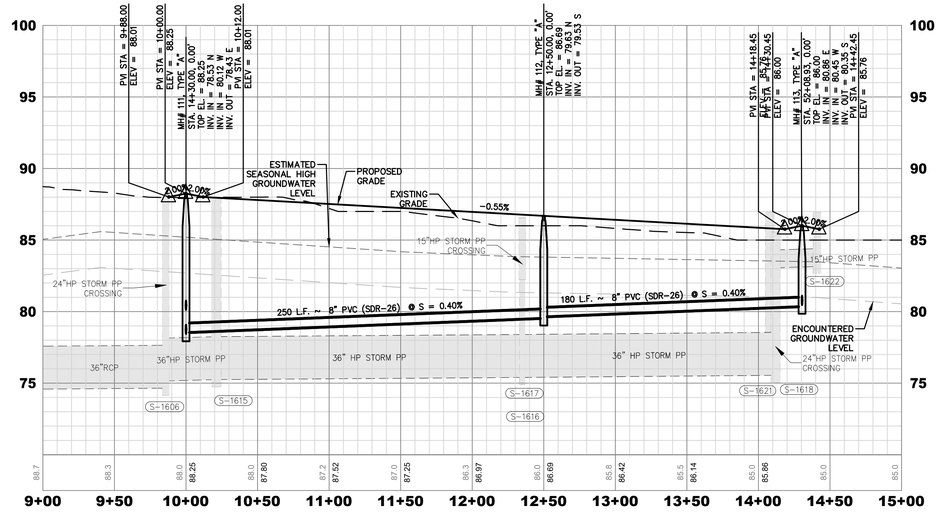
1"=5' VERT.



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SCALE: 1"=50' HORZ.
1"=5' VERT.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
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4			
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6			

ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 50'
Sheet	12H

Printed: Sep 15, 2025 - 8:37am Printed By: michael.lancellotti

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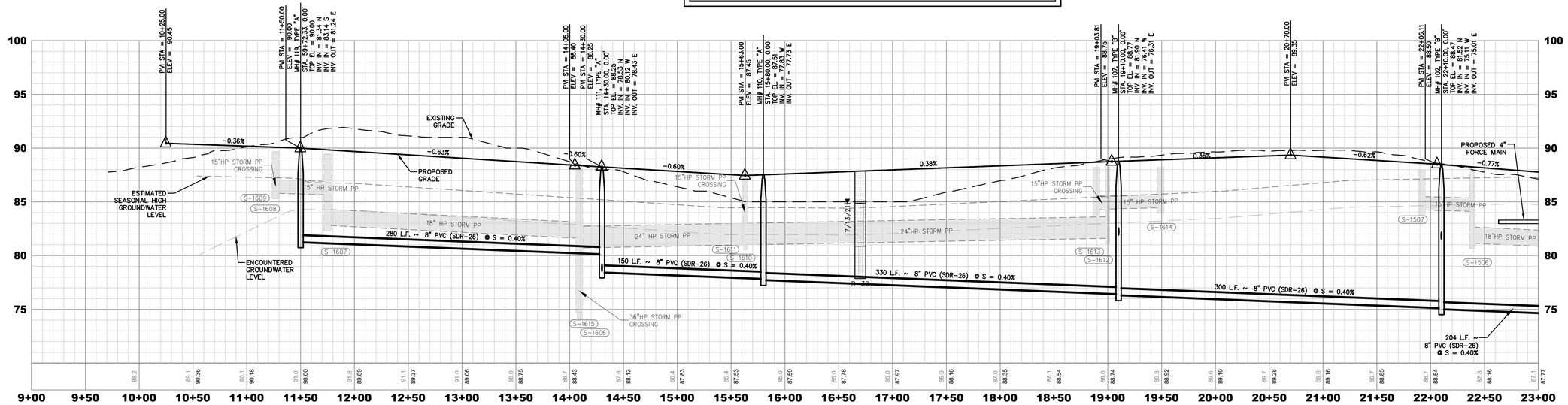

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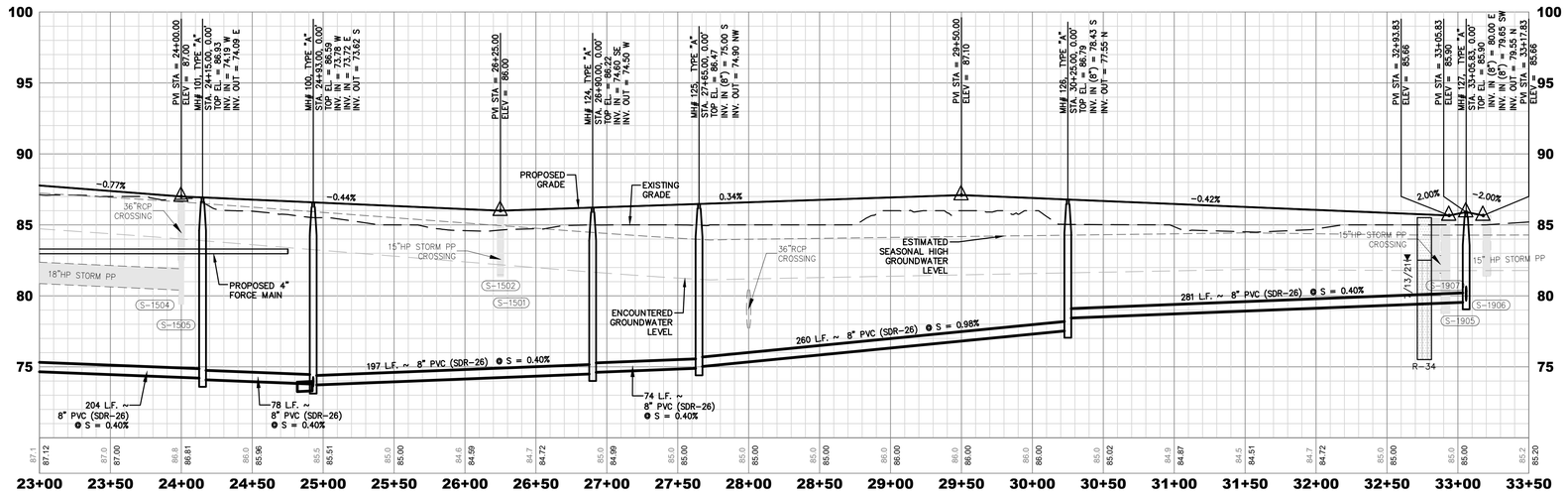
1"=5' VERT.



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SCALE: 1"=50' HORZ.
1"=5' VERT.

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PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
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ROADWAY AND SEWER PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 50'
Sheet	12I

Printed: Sep 15, 2025 - 8:37am Printed By: michael.lancellotti
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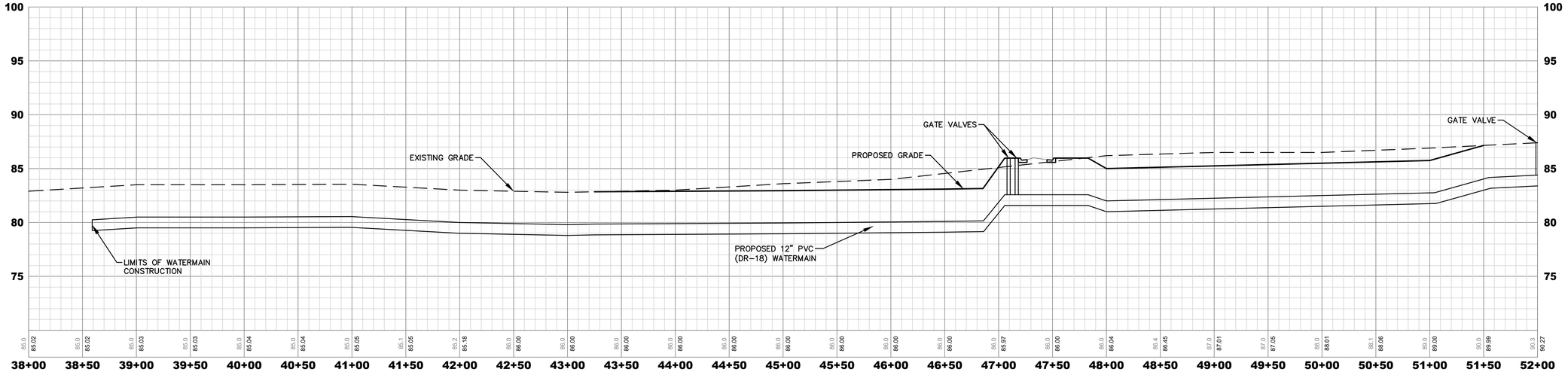
Printed: Sep 18, 2025 - 10:41am Printed By: michael.lancellotti



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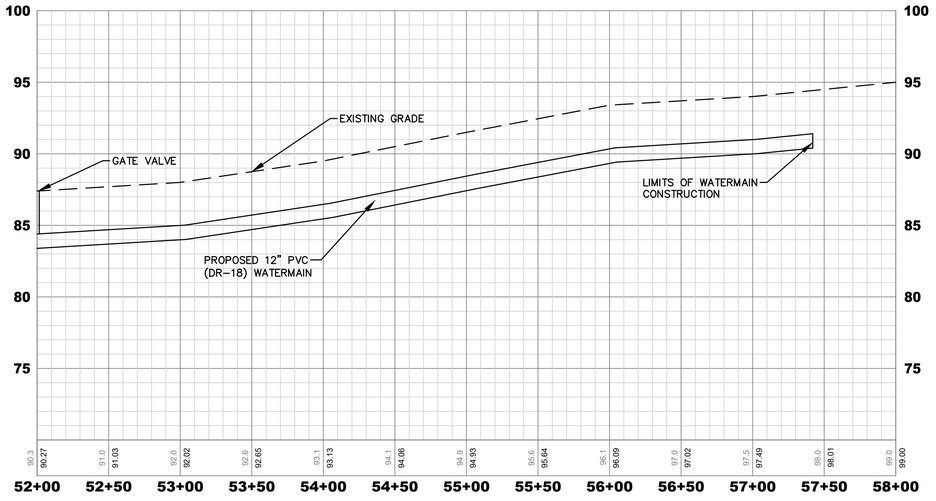
SCALE: 1"=50' HORZ.
1"=5' VERT.



ROAD SR19
(52+00.00–58+00.00)
SCALE: 1"=50' HORZ.
1"=5' VERT.

NOTES:
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PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No	Date	Revision	By
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-

SR-19 WATERMAIN PROFILES

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	Q.C.: RCW
Date: APR 2025	
Scale: 1" = 50'	
Sheet 12J	

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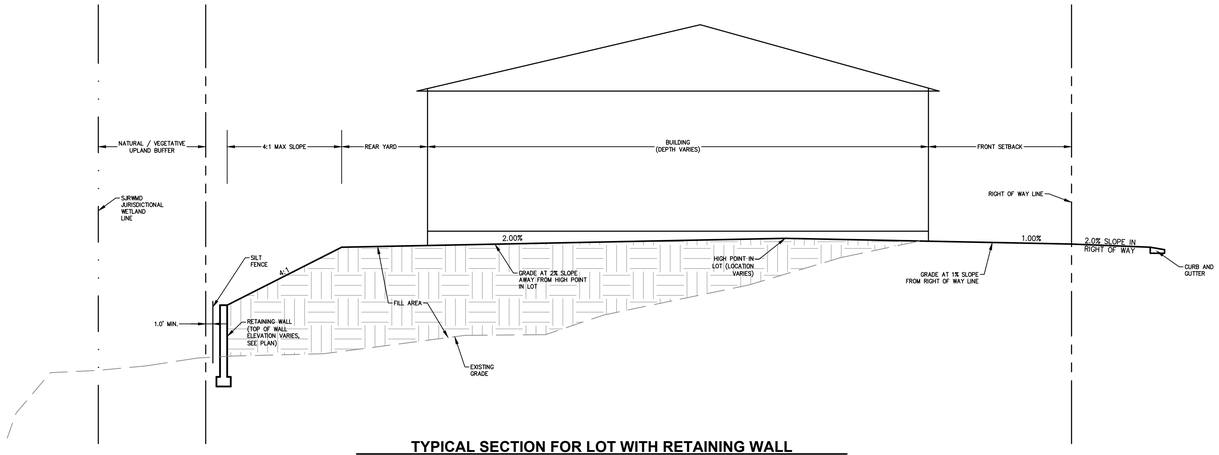
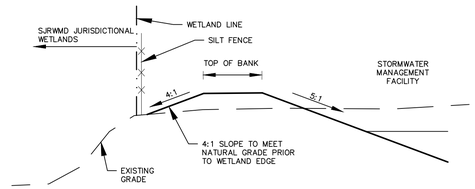
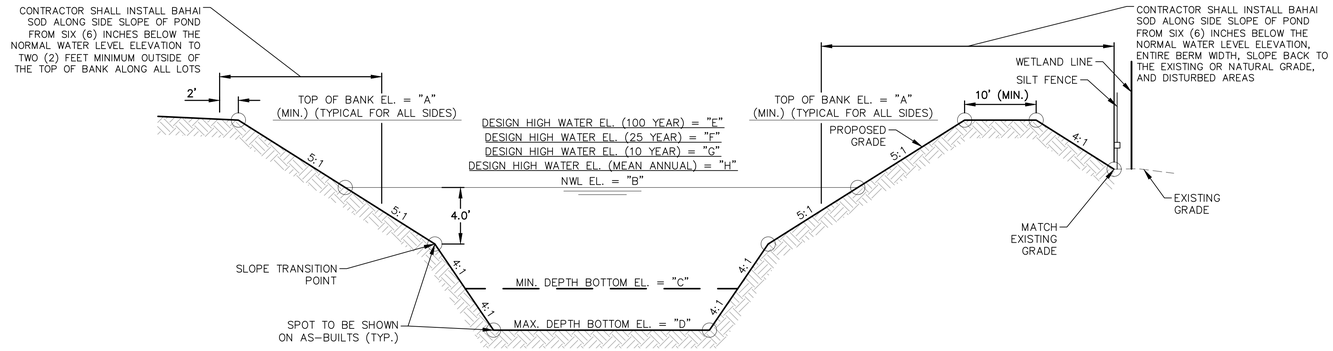


TYPICAL SECTION FOR LOT WITH RETAINING WALL
N.T.S.



NOTE: REFER TO TYPICAL CROSS SECTION THRU STORMWATER MANAGEMENT FACILITY FOR OTHER DETAILS

TYPICAL REAR POND BANK CROSS SECTION
N.T.S.

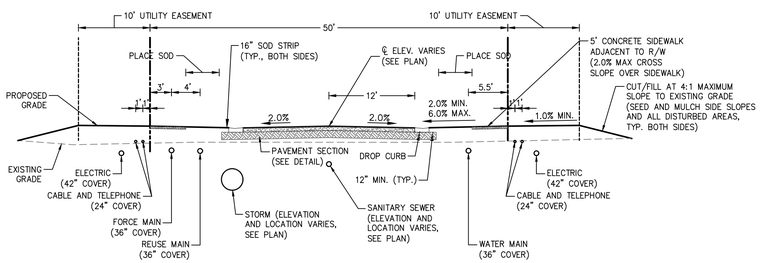


VARIABLE	DESCRIPTION					SMF-05	SMF-06	SMF-07		SMF-09	SMF-10
"A"	TOP OF BANK EL. (MIN.)					84.50	84.50	84.50		86.00	86.00
"B"	NORMAL WATER LEVEL EL.					81.50	81.50	81.50		83.00	83.00
"C"	MIN. DEPTH BOTTOM EL.					73.50	73.50	73.50		75.00	75.00
"D"	MAX. DEPTH BOTTOM EL.					69.50	69.50	69.50		71.00	71.00
"E"	DHW EL. (100 YR.)					83.16	83.25	83.89		85.35	85.39
"F"	DHW EL. (25 YR.)					82.74	82.77	83.03		84.71	84.73
"G"	DHW EL. (10 YR.)					82.44	82.45	82.50		84.37	84.37
"H"	DHW EL. (MEAN ANNUAL)					82.04	82.04	82.05		83.86	83.86

VARIABLE	DESCRIPTION	SMF-11	SMF-12	SMF-13	SMF-14	SMF-15	SMF-16	SMF-17		SMF-19	
"A"	TOP OF BANK EL. (MIN.)	86.50	86.00	84.50	84.50	86.00	86.00	85.50		85.50	
"B"	NORMAL WATER LEVEL EL.	83.00	84.00	81.50	81.50	83.00	83.00	82.00		82.00	
"C"	MIN. DEPTH BOTTOM EL.	75.00	76.00	73.50	73.50	75.00	75.00	74.00		74.00	
"D"	MAX. DEPTH BOTTOM EL.	71.00	72.00	69.50	69.50	71.00	71.00	70.00		70.00	
"E"	DHW EL. (100 YR.)	85.73	84.71	82.86	84.51	84.61	85.48	84.67		85.28	
"F"	DHW EL. (25 YR.)	85.09	84.53	82.44	83.79	84.16	84.78	84.18		84.31	
"G"	DHW EL. (10 YR.)	84.61	84.37	82.19	83.28	83.84	84.33	83.64		83.66	
"H"	DHW EL. (MEAN ANNUAL)	83.87	84.18	81.89	82.51	83.45	83.77	82.81		82.82	

NOTES:
1. SIDE SLOPES SHALL NOT BE STEEPER THAN 4:1 TO DEPTH SHOWN ABOVE (PER SJRWMD REQUIREMENTS). CONTRACTOR SHALL VERIFY SLOPES ON RECORD DRAWINGS AT SPOTS SHOWN ABOVE AND AT TURN POINTS AND AT 100' MAXIMUM INTERVALS.
2. CONTRACTOR SHALL FILL EMBANKMENTS (BERMS) THAT ARE ABOVE EXISTING GRADE IN LIFTS NOT EXCEEDING 8" THICKNESS. SURFACE OF FILL SHALL BE SCARIFIED BETWEEN SUCCESSIVE LIFTS TO PROVIDE BOND AND PRECLUDE SEEPAGE PATHS OR SLICK INTERFACES. FILL SOILS SHALL CONSIST OF CLAYEY FINE SANDS (SC) WITH A MIN. 15% OF FINES PASSING THE NO. 200 SIEVE. EMBANKMENT SHALL BE COMPACTED TO 98% OF MODIFIED PROCTOR MAX. DRY DENSITY WITH 2% OF OPTIMUM MOISTURE CONTENT. CONTRACTOR SHALL PROVIDE DENSITY TESTS ALONG POND EMBANKMENTS AT 200' INTERVALS.
3. CONTRACTOR MAY DISPOSE OF UNSUITABLE MATERIAL IN BOTTOM OF STORM WATER MANAGEMENT FACILITY PROVIDED THAT ALL UNSUITABLE MATERIAL DISPOSED OF IS COVERED WITH A MINIMUM OF 24" OF CLEAN FILL; HOWEVER, CONTRACTOR SHALL NOT DISPOSE OF UNSUITABLE MATERIAL IN SIDE SLOPES OR BERMS, FINAL DEPTH SHALL BE AS SHOWN ON PERMITTED CONSTRUCTION PLANS.

TYPICAL SECTION THRU STORM WATER MANAGEMENT FACILITY
N.T.S.



NOTES:
1. CONTRACTOR SHALL GRADE AND DRESS ALL R/W AREAS TO 0.1± FEET AND REMOVE ALL DEBRIS AND ROOTS 3/8" DIAMETER AND LARGER.
2. CABLE/PHONE AND ELECTRIC SHALL BE DESIGNED BY OTHERS (LOCATION SHOWN IS GENERAL GUIDELINE ONLY).
3. FINAL SODDING AND SIDEWALK CONSTRUCTION IN FRONT OF FUTURE HOMES CAN BE DEFERRED TO HOME CONSTRUCTION. HOWEVER, THE 16" SOD STRIP IS REQUIRED AT THE TIME OF ROAD CONSTRUCTION.

TYPICAL ROADWAY CROSS SECTION FOR 50' RIGHT OF WAY
N.T.S.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	September 18, 2025
Scale:	NA
Sheet	13A

Printed: Sep 18, 2025 - 1:14pm Printed By: derek.green
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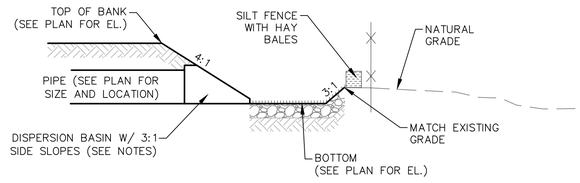
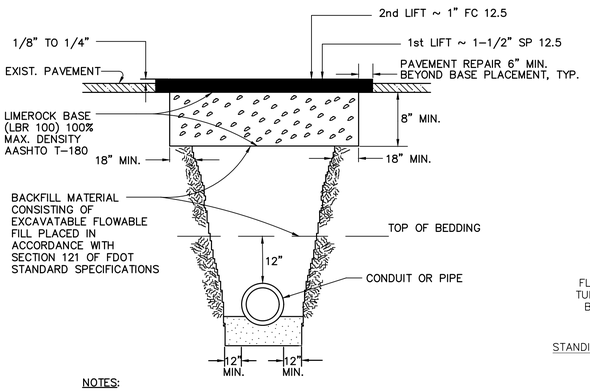


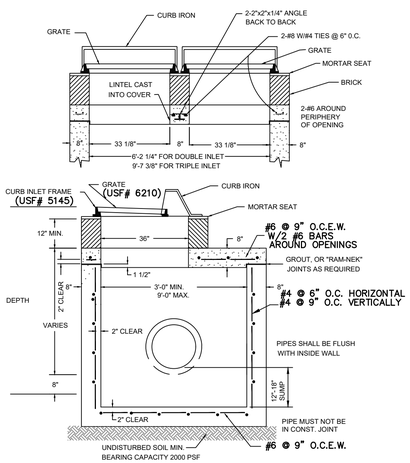
NOTES:
1. CONTRACTOR SHALL PROVIDE 1' MIN. DEPTH OF STONE (SIZE 3"–6" DIAMETER) OVER TOP OF FILTER FABRIC ALONG ENTIRE BOTTOM OF DISPERSION BASIN. 2" OF FILL TO BE PLACED OVER BEDDING STONE AND LEVELED IN PREPARATION FOR SODDING.
2. CONTRACTOR SHALL PROVIDE SILT FENCE AND HAY BALES ALONG ENTIRE PERIMETER OF DISPERSION BASIN IN ACCORDANCE WITH SEDIMENT AND EROSION CONTROL PLAN.
3. CONTRACTOR SHALL SOD ENTIRE DISPERSION BASIN AND ALL DISTURBED AREAS.
4. THE CONTRACTOR SHALL STAKE LIMITS OF CONSTRUCTION AND PLACE SILT FENCE PRIOR TO CONSTRUCTION AND SHALL AVOID IMPACTS OUTSIDE LIMITS SHOWN ON PLANS.

TYPICAL DISPERSION BASIN DETAIL
N.T.S.

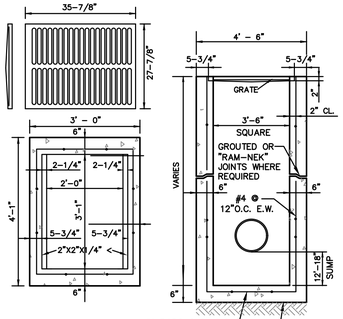


NOTES:
1. METHOD AND MATERIALS OF REPAIR SUBJECT TO FDOT CONSTRUCTION REQUIREMENTS..
2. ANY ASPHALT CUTS IN THE ROAD NEED TO BE CUT OUT AND REPLACED.
3. SUITABLE BACKFILL MATERIAL FOR SAWCUT AREA IS LIMITED TO EXCAVATABLE FLOWABLE FILL PLACED IN ACCORDANCE WITH SECTION 121 OF FDOT STANDARD SPECIFICATIONS.
4. DO NOT ALLOW THE UTILITY BEING INSTALLED TO FLOAT. IF A METHOD IS PROVIDED TO PREVENT FLOTATION FROM OCCURRING,
5. PLACE FLOWABLE FILL MIDWAY UP ON BOTH SIDES OF THE UTILITY AND TO THE BOTTOM OF THE EXISTING BASE COURSE.

STANDARD PAVEMENT REPAIR DETAIL
N.T.S.

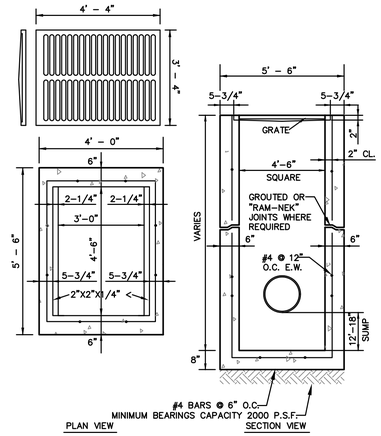


TYPE "B" DOUBLE CURB INLET
N.T.S.



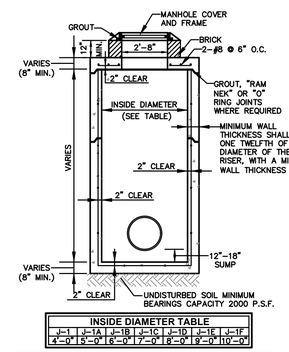
NOTES:
1. CONCRETE DESIGN STRENGTH 4,000 PSI.
2. ALL GRATES TO BE TRAFFIC BEARING GRATE.
3. CONTRACTOR SHALL PLACE A 10' WIDE SOD COLLAR AROUND ALL INLETS (NOT IN PAVEMENT)

STORM SEWER TYPE "C" INLET
N.T.S.



NOTES:
1. CONCRETE DESIGN STRENGTH 4,000 PSI.
2. ALL GRATES TO BE TRAFFIC BEARING GRATE.
3. CONTRACTOR SHALL PLACE A 10' WIDE SOD COLLAR AROUND INLETS (NOT IN PAVEMENT).
4. PROVIDE KNOCKOUTS FOR UNDERDRAIN.

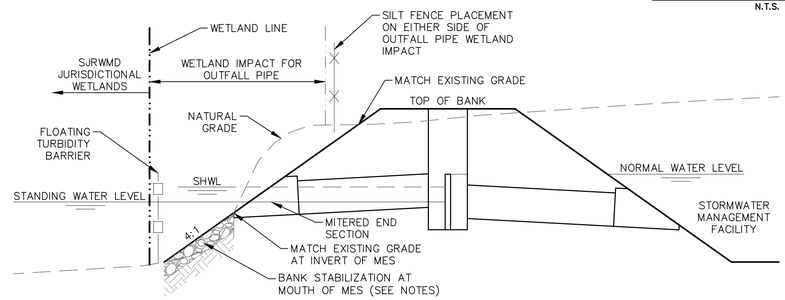
STORM SEWER TYPE "E" INLET
N.T.S.



INSIDE DIAMETER TABLE						
J-1	J-1A	J-1B	J-1C	J-1D	J-1E	J-1F
4'–0"	5'–0"	6'–0"	7'–0"	8'–0"	9'–0"	10'–0"

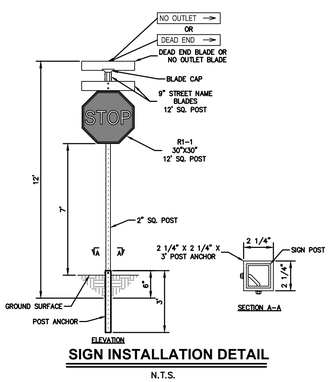
NOTES:
1. CONCRETE DESIGN STRENGTH 4,000 PSI.
2. PRECAST IN ACCORDANCE WITH LATEST EDITIONS OF ASTM C 478.
3. PIPES SHALL BE FLUSH WITH INSIDE WALL.
4. IN PAVED AREAS FRAME AND GRATE MUST MATCH FINAL ASPHALT AND CROSS-SLOPE.
5. RING AND COVER SHALL BE TRAFFIC BEARING

STORM SEWER J-1 MANHOLE
N.T.S.

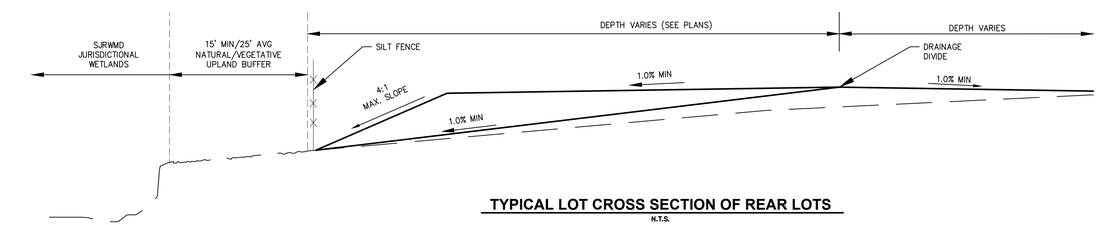


NOTES:
1. CONTRACTOR SHALL PROVIDE 1' MIN. DEPTH OF STONE (SIZE 3"–6" DIAMETER) OVER TOP OF FILTER FABRIC AT MOUTH OF MITERED END SECTION.
2. CONTRACTOR SHALL PROVIDE FLOATING TURBIDITY BARRIER WHERE WORK SHALL OCCUR BELOW STANDING WATER LEVEL WITHIN WETLANDS.
3. THE CONTRACTOR SHALL STAKE LIMITS OF CONSTRUCTION AND PLACE SILT FENCE AND FLOATING TURBIDITY BARRIERS PRIOR TO CONSTRUCTION AND SHALL AVOID IMPACTS OUTSIDE LIMITS SHOWN ON PLANS.

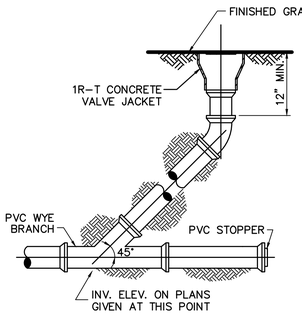
TYPICAL STORMWATER POND OUTFALL DETAIL
N.T.S.



SIGN INSTALLATION DETAIL
N.T.S.



TYPICAL LOT CROSS SECTION OF REAR LOTS
N.T.S.



CLEANOUT DETAIL
N.T.S.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	September 18, 2025
Scale:	NA
Sheet	13B

Printed: Aug 06, 2025 - 8:16am Printed By: justin.williams
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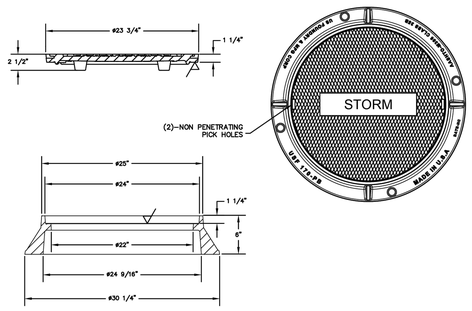
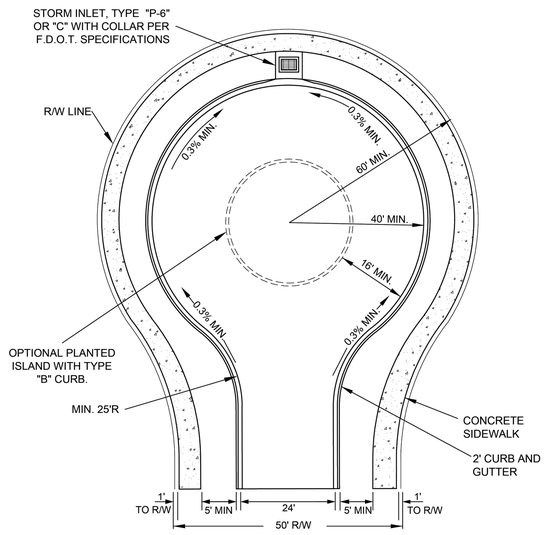
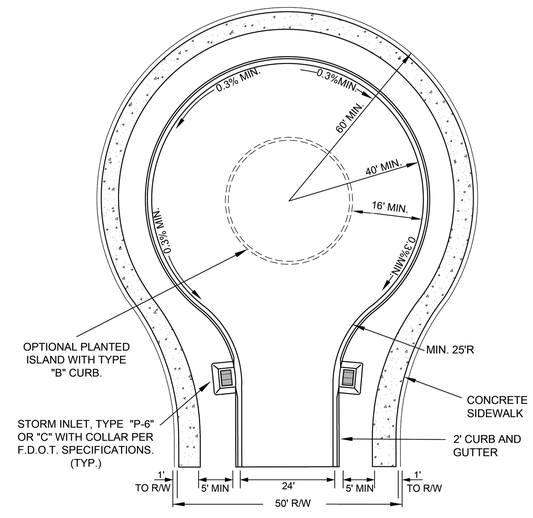


*MODEL USF 170–PB RING AND CE–PB COVER
RING NO. 8021468
COVER NO. 8017533
MATERIAL AASHTO M306 GRAY IRON CLASS35B

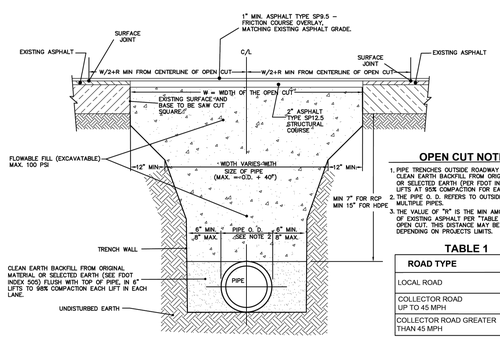
STORMWATER MANHOLE COVER
NOT TO SCALE



CUL-D-SAC WITH SINGLE STORM INLET
(N.T.S.)



CUL-DE-SAC WITH TWO STORM INLETS
(N.T.S.)



OPEN CUT NOTES

1. PIPE TRENCHES OUTSIDE ROADWAY WILL REQUIRE CLEAN EARTH BACKFILL FROM ORIGINAL MATERIAL OR SELECTED EARTH (PER FDOT INDEX 505) IN 6" LIFTS AT 95% COMPACTION FOR EACH LIFT.
2. THE PIPE O. D. REFERS TO OUTSIDE EDGES OF MULTIPLE PIPES.
3. THE VALUE OF "R" IS THE MIN AMOUNT OVERLAY OF EXISTING ASPHALT PER TABLE 1" PAST THE OPEN CUT. THIS DISTANCE MAY BE INCREASED DEPENDING ON PROJECTS LIMITS.

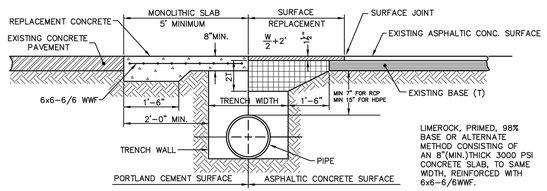
TABLE 1

ROAD TYPE	R
LOCAL ROAD	2'
COLLECTOR ROAD UP TO 45 MPH	15'
COLLECTOR ROAD GREATER THAN 45 MPH	25'

*NOTES:
OPEN CUTS WILL NOT BE ALLOWED UNLESS SPECIFICALLY AUTHORIZED BY THE TOWN.

THIS DETAIL REPRESENTS THE STANDARD INSTALLATION OF CROSS PIPES FOR APPROVED OPEN CUTS OF TOWN ROADWAYS DURING CONSTRUCTION.

OPEN CUT & REPAIR (N.T.S.)

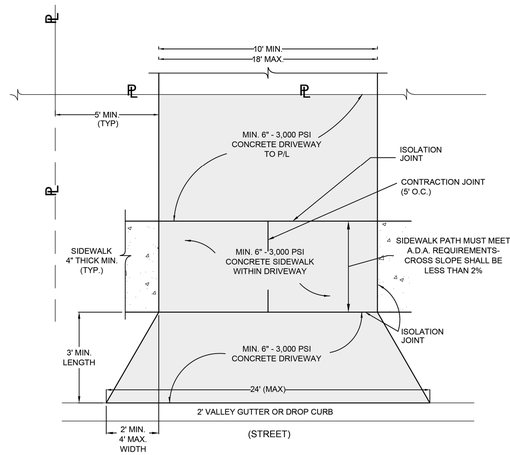


LIMEROCK, PRIMED, 98% BASE OR ALTERNATE METHOD CONSISTING OF AN 8"(MIN.)THICK 3000 PSI CONCRETE SLAB, TO SAME WIDTH, REINFORCED WITH 6x6–6/6WWF.

*NOTES:
OPEN CUTS WILL NOT BE ALLOWED UNLESS SPECIFICALLY AUTHORIZED BY THE TOWN.

THIS DETAIL REPRESENTS AN EXCEPTION TO THE STANDARD INSTALLATION OF CROSS PIPES FOR APPROVED OPEN CUTS OF ROADWAYS DURING CONSTRUCTION AND SHALL ONLY BE USED WITH THE PRIOR APPROVAL OF THE TOWN.

OPEN CUT & REPAIR ALTERNATE
(N.T.S.)



Apron Flare Width: Minimum 2' each side.
Maximum 4' each side,
Not to Exceed 24' Total Width.

RESIDENTIAL DRIVEWAY APRON (N.T.S.)

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	August 6, 2025
Scale:	NA
Sheet	13C

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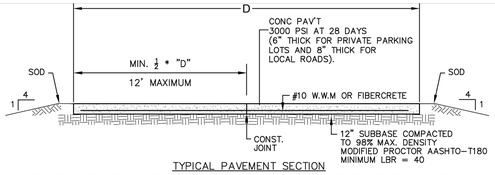
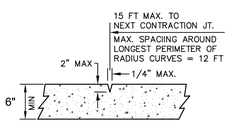
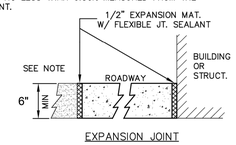


TYPICAL PAVEMENT SECTION

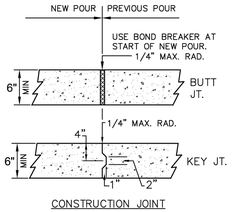
NOTE: FOR ROADWAYS, THE CROSSSLOPE SHALL BE 1/4" PER FOOT. FOR PRIVATE PARKING AREAS THE MINIMUM ALLOWABLE PAVEMENT SLOPE SHALL BE NO LESS THAN 0.50% MEASURED FROM THE RECEIVING INLET, GUTTER, OR FLUME TO ANY PAVEMENT.



CONTRACTION JOINT



EXPANSION JOINT

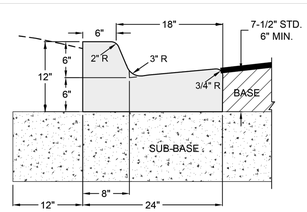


CONSTRUCTION JOINT

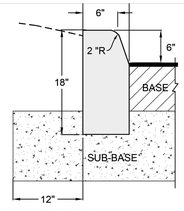
NOTES:

1. CONTRACTION JTS. MAY BE HAND FORMED, SAWED OR CONSTRUCTED W/ A 1/4" PREMOLDED FILLER JT. JOINTS MUST BE SAW CUT THE SAME DAY AS THE POUR.
2. EXPANSION JOINTS TO BE PLACED BETWEEN ROADWAY AND CURB. ALSO AT ANY PERMANENT STRUCTURE ABUTTING OR WITHIN THE PAVED AREA INCLUDING SIDEWALKS.
3. USE OF WOOD IS NOT AN ACCEPTABLE ALTERNATIVE TO FLEXIBLE JOINT SEALANTS.
4. FINAL DETERMINATION OF CONSTRUCTION JOINT SELECTION AND APPLICATION SHALL BE MADE BY THE ENGINEER OF RECORD BASED ON PROJECT REQUIREMENTS AND LOCATION.
5. CONSTRUCTION JOINTS WITHIN THE SLAB AREA SHOULD NOT CONTAIN PREMOLDED EXPANSION JOINT FILLER.

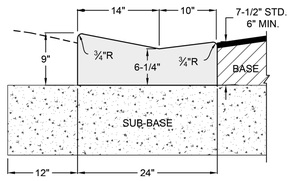
CONCRETE PAVEMENT (N.T.S.)



TYPE "F" CURB



TYPE "D" CURB

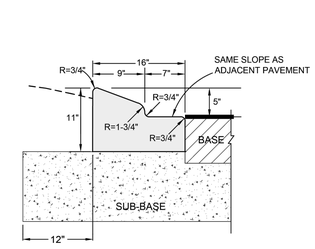


DROP CURB (MIAMI TYPE)

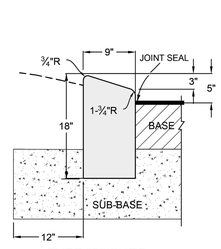
NOTES:

1. ALL CURBS TO BE CONSTRUCTED OF 28 DAY, 3,000 P.S.I. CONCRETE.
2. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED EVERY 500' CONSTRUCTION JOINT REQUIRED EVERY 10' MAXIMUM (4' MINIMUM).
3. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED AT EACH SIDE OF ALL STORM INLET STRUCTURES AND AT ALL RADIUS POINTS.
4. SUB-BASE TO BE COMPACTED AND TESTED TO 98% MINIMUM DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
5. EXPANSION JOINT MATERIAL MUST COVER THE ENTIRE CROSS SECTION OF CURB.

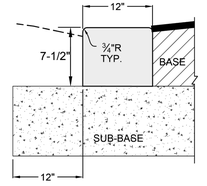
CONCRETE CURB (1) (N.T.S.)



TYPE "A" CURB

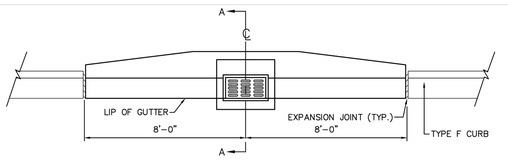


TYPE "B" CURB

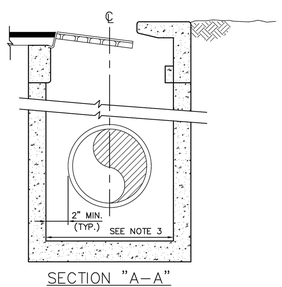


RIBBON CURB

CONCRETE CURB (2) (N.T.S.)



PLAN

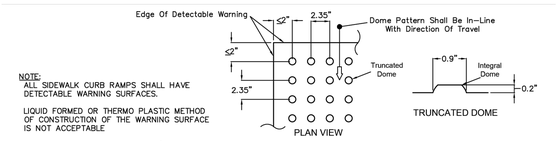


SECTION "A-A"

NOTES:

1. CURB INLET TOPS SHALL BE FDOT TYPE 5 OR TYPE 6. (TYPE 6 SHOWN). FRAME AND COVER SHALL BE STEEL MEETING ASTM A-36 OR CAST IRON, CLASS No. 30 IN ACCORDANCE WITH ASTM A-48.
2. PRECAST STRUCTURES SHALL BE FDOT TYPE P OR J AND MAY BE CIRCULAR, SQUARE OR RECTANGULAR, WALL THICKNESS AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH ASTM C-478.
3. MINIMUM INSIDE DIMENSIONS SHALL BE 4' DIAMETER FOR CIRCULAR AND 3'-6" FOR SQUARE OR RECTANGULAR.
4. ALTERNATE DRAINAGE INLET DESIGNS MAY BE PROPOSED BY ENGINEER.

CURB INLET (N.T.S.)

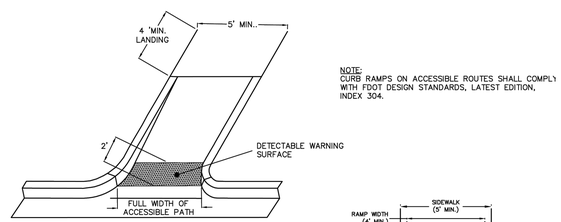


NOTE:
ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES.

LIQUID FORMED OR THERMO PLASTIC METHOD OF CONSTRUCTION OF THE WARNING SURFACE IS NOT ACCEPTABLE

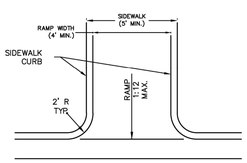
LENGTH OF SURFACE SHALL BE 2' IN THE DIRECTION OF TRAVEL WITH A WIDTH EQUAL TO THE WIDTH OF THE ACCESSIBLE WALKWAY.

CURB RAMP DETECTABLE WARNING SURFACE

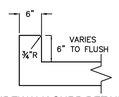


PICTORAL VIEW
CURB RAMP TYPE CR-E
FDOT INDEX 304

NOTE:
CURB RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH FDOT DESIGN STANDARDS, LATEST EDITION, INDEX 304.



PLAN VIEW
CURB RAMP TYPE CR-E
FDOT INDEX 304



SIDEWALK CURB DETAIL
NOT TO SCALE

SIDEWALK CURB RAMP (N.T.S.)

CURB RAMP – GENERAL NOTES

ALL REFERENCES TO FDOT AND ADA STANDARDS SHALL MEAN THE LATEST EDITION

1. Public sidewalk curb ramps shall be constructed in the public right of way at locations that will provide continuous unobstructed pedestrian circulation paths to pedestrian areas, elements and facilities in the public right of way and to accessible pedestrian routes on adjacent sites. Curbed facilities with sidewalks and those without sidewalks are to have curb ramps constructed at all street intersections and at turnouts that have curbed returns. Partial curb returns shall extend to the limit prescribed by FDOT Index No. 515 to accommodate curb ramps. Ramps constructed at locations without sidewalks shall have a 5' x 5' landing constructed at the top of each ramp.
2. The location of curb ramps shall be as shown in the plans, but shall conform to F.D.O.T. standard details. All ramps, landings and curbs shall be constructed with minimum 3000 psi, Class A concrete and shall have minimum thickness of 6 inches. All concrete for pedestrian areas shall have a medium broom finish and standard color, unless specifically required by the plans.
3. Curb ramp running slopes at unrestrained sites shall not be steeper than 1 : 12 and cross slope shall not be steeper than 2%. Transition slopes shall not be steeper than 1 : 12. When altering existing pedestrian facilities where existing site development precludes the accommodation of a ramp slope of 1 : 12, a running slope between 1 : 12 and 1 : 10 is permitted for a rise of 6" maximum and a running slope of between 1 : 10 and 1 : 8 is permitted for a rise of 3" maximum.
4. If a curb ramp is located where pedestrians must walk across the ramp, then the walk shall have transitions with a maximum longitudinal slope of 1 : 12. and a 2% cross-slope. Ramps with curb returns may be used to provide guidance, avoid an obstacle, or when R/W limitations prohibit flares. Improvements for directional guidance are required whenever necessary to guide or re-direct the pedestrian towards the receiving ramp.
5. All curb ramps shall have detectable warning surfaces that extend the full width of the ramp and 24" from the back of curb in the direction of travel. Detectable warning surfaces shall be constructed in conformance with A.D.A. Standards For Accessible Design, A.D.A. Accessibility Guidelines, Section 4.29.2, Transition slopes are not to have detectable warnings. Dome pattern shall be in-line with direction of travel.
6. The color requirement for detectable warnings is to provide a dark-on-light visual contrast between the detectable warning surface and the adjacent walking surface. Where adjacent walking surfaces are dark colored and/or constructed with materials other than standard Class I Portland Cement Concrete in accordance with the Standard Specifications, the Contractor must provide a detectable warning surface color that provides the necessary contrast, with the adjacent concrete. The standard color is dark red brick or yellow colored detectable warning tile with standard concrete unless otherwise noted.
7. Where a curb ramp is constructed within existing curb, curb and gutter or sidewalk, the existing concrete shall be removed to the nearest joint beyond the transition slope so that no remaining section of concrete is less than 5' long. The existing sidewalk shall be removed to the nearest joint beyond the transition slope, if the ramp must extend into the sidewalk.
8. Expansion joints shall be placed at all perimeter edges abutting concrete, but no joints shall be made in the ramp itself.

SIDEWALK CURB RAMP GENERAL NOTES

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
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5			

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	August 6, 2025
Scale:	NA
Sheet	13D

Printed: Aug 06, 2025 - 8:17am Printed By: justin.williams
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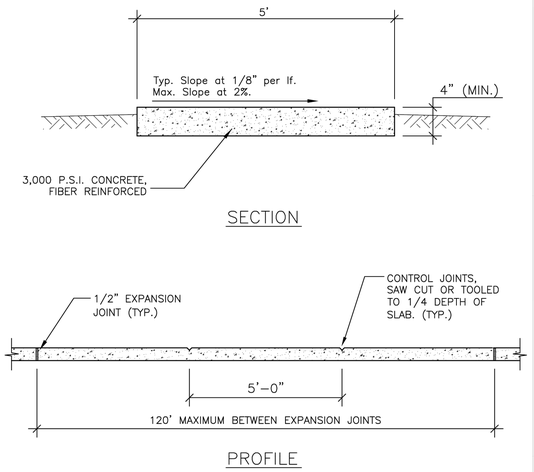
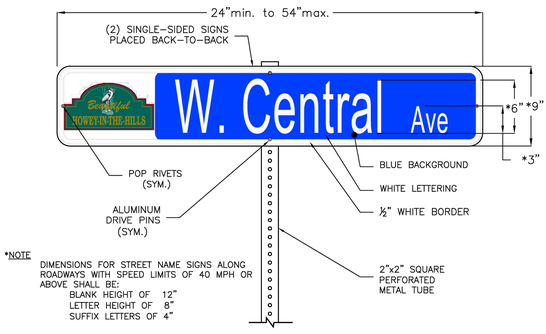


SIDEWALK (N.T.S.)

SIDEWALK CONSTRUCTION- GENERAL NOTES

1. SIDEWALKS, BIKE PATHS, RAMPS, AND DRIVEWAY APRONS SHALL BE CONSTRUCTED OF PLAIN PORTLAND CEMENT CONCRETE WITH A MAXIMUM SLUMP OF 3 INCHES, A MINIMUM DEVELOPED COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS, AND A MINIMUM UNIFORM THICKNESS OF 4 INCHES WHERE INTENDED SOLELY FOR PEDESTRIAN TRAFFIC, AND 6 INCHES THICK WHERE MOTOR VEHICLES ARE LIKELY TO CROSS.
2. SIDEWALKS AND BIKE PATHS SHALL BE PLACED PARALLEL TO, AND ONE FOOT WITHIN THE RIGHT-OF-WAY LINE EXCEPT THAT THE CITY MAY APPROVE DEVIATIONS TO SAVE SPECIMEN TREES PROVIDED THAT THE PAVEMENT REMAINS WITHIN THE RIGHT-OF-WAY, OR ADJACENT EASEMENT DEDICATED FOR SIDEWALK USE, IS NOT DIMINISHED IN WIDTH, AND REMAINS AT LEAST 3 FEET FROM THE EDGE OF THE STREET PAVEMENT, UNLESS OTHERWISE APPROVED BY THE CITY.
3. THE TOP OF THE CONCRETE SHALL BE AT AN ELEVATION NO LOWER THAN THE CROWN OF THE ADJACENT ROADWAY, AND NO HIGHER THAN 6 INCHES ABOVE THE CROWN UNLESS APPROVED BY THE CITY TO MAKE A MORE NATURAL TRANSITION WITH THE ADJACENT LAND. UNDER NO CIRCUMSTANCES WILL THE SIDEWALK EXCEED ADA MAXIMUM GRADES.
4. ISOLATION JOINTS (TYPE A JOINTS) SHALL BE PROVIDED BETWEEN EXISTING SLABS OR STRUCTURES AND FRESH CONCRETE, TO SEPARATE PEDESTRIAN SECTIONS FROM SECTIONS WHICH WILL ENCOUNTER VEHICLE TRAFFIC, TO SEPARATE FRESH PLACEMENT FROM CONCRETE WHICH HAS SET FOR MORE THAN 60 MINUTES, AND NO FARTHER APART THAN 120 FEET IN SIDEWALKS AND BIKE PATHS. JOINT MATERIAL SHALL BE AS SPECIFIED IN FDOT STANDARDS AND SPECIFICATIONS AND SHALL BE RUBBER, PLASTIC OR OTHER APPROVED NON-BIODEGRADABLE ELASTOMERIC MATERIAL. WOOD IS PROHIBITED.
5. CONTROL JOINTS (TYPE B JOINTS) SHALL BE TOOLED INTO THE FRESH CONCRETE, OR SAW-CUT WITHIN 24 HOURS OF PLACEMENT, TO A DEPTH EQUAL TO 1/4 THE SLAB THICKNESS AND SPACED APART A DISTANCE EQUAL TO THE WIDTH OF THE SLAB OR 5 FEET, WHICHEVER IS GREATEST.
6. THE SLAB SURFACE SHALL BE BROOM FINISHED TO BE SLIP RESISTANT, AND SHALL MATCH AS CLOSELY AS POSSIBLE THE FINISH OF EXISTING ADJACENT SLABS AND ALL EDGES SHALL BE TOOLED TO ELIMINATE SHARP CORNERS.
7. THE BEARING SUBSURFACE SHALL HAVE ALL ORGANIC, LOOSE, AND DELETERIOUS MATTER REMOVED, AND THE REMAINING CLEAN SOIL SHALL BE SMOOTH, SOUND, AND SOLID. ANY FILL MATERIAL SHALL BE COMPACTED WITH A VIBRATORY OR IMPACT COMPACTION MACHINE IN MAXIMUM 12 INCH LIFTS OR COMPACTED WITH A HAND TAMPER IN MAXIMUM 4 INCH LIFTS. THE CITY SHALL REQUIRE A COMPACTION TEST FOR EACH LIFT IF THE TOTAL FILLED SECTION IS MORE THEN 12 INCHES DEEP OR IF THE SUBSURFACE HAS BEEN DISTURBED MORE THAN 12 INCHES DEEP. WHERE SUCH TEST IS REQUIRED, THE RESULTS SHALL SHOW A MINIMUM PROCTOR FIELD DENSITY OF 95 PERCENT.
8. ALL CONCRETE WORK IN THE RIGHT-OF-WAY SHALL BE INSPECTED BY THE CITY AFTER THE SUBSOIL IS PREPARED AND THE FORMS ARE SET, BUT BEFORE THE CONCRETE PLACEMENT BEGINS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE FINISHED SLAB FROM ALL DAMAGE AND VANDALISM UNTIL THE CITY ACCEPTS OR APPROVES THE SLAB.
10. SIDEWALKS LOCATED WITHIN THE RIGHT-OF-WAY SHALL NOT BE TINTED, STAINED, COLORED, OR COATED, UNLESS APPROVED BY THE CITY ENGINEER.
11. ALL FORMS SHALL BE REMOVED PRIOR TO ACCEPTANCE OR APPROVAL AND THE DISTURBED GROUND SHALL BE BACK-FILLED, RE-GRADED, AND SODDED SO THAT THE WEAR SURFACE OF THE CONCRETE IS REASONABLY FLUSH WITH THE ADJACENT GRADE.
12. THE CITY MAY REQUIRE ADDITIONAL JOINTS AROUND UTILITY STRUCTURES LOCATED WITHIN THE SIDEWALK.

SIDEWALK - GENERAL NOTES



*NOTE
DIMENSIONS FOR STREET NAME SIGNS ALONG ROADWAYS WITH SPEED LIMITS OF 40 MPH OR ABOVE SHALL BE:
BLANK HEIGHT OF 12"
LETTER HEIGHT OF 8"
SUFFIX LETTERS OF 4"

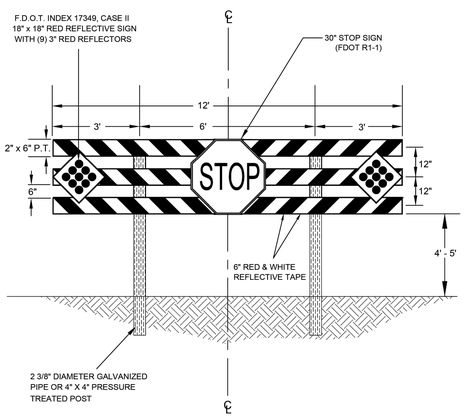
SIGN BLANKS:
- .063" ALUMINUM
- ALUMINUM CHEMICALLY TREATED TO MEET ATSM B449 STANDARD (PRE-TREATMENT FOR PAINT OR REFLECTIVE SHEETING)
- DIMENSIONS ARE TO BE 9" or 12" HEIGHT X 24" MINIMUM TO 54" MAXIMUM LENGTH. BLANK LENGTH TO BE DETERMINED BY ROAD NAME LENGTH AND BE ESTABLISHED IN 6" INCREMENTS, I.E. (24",30",36",42",48" OR 54")

COLOR:
- THE BACKGROUND SHALL BE HIGH INTENSITY PRISMATIC GREATER WHITE SHEETING WITH BLUE TRANSPARENT FILM OVERLAY.

LEGEND/LETTERING:
- ONE-HALF INCH (1/2") WHITE BORDER, 1/2" FROM THE EDGE.
- STREET NAMES SHALL BE 6" or 8" SERIES B LETTERS.
- THE ABBREVIATED SUFFIX "Rd", "Ave", "Dr", ETC., SHALL BE 3" or 4" SERIES B.

MOUNTING:
- MOUNTING SHALL BE TWO SINGLE-SIDED SIGNS WITH ATTRIBUTES ABOVE, MOUNTED BACK TO BACK, WITH ENDS POP RIVETED TOGETHER ON 2"x2" METAL POST, ATTACHED WITH ALUMINUM DRIVE PINS. NO EDGE-CLAMPING STYLE MOUNTING BLOCKS ARE TO BE USED.

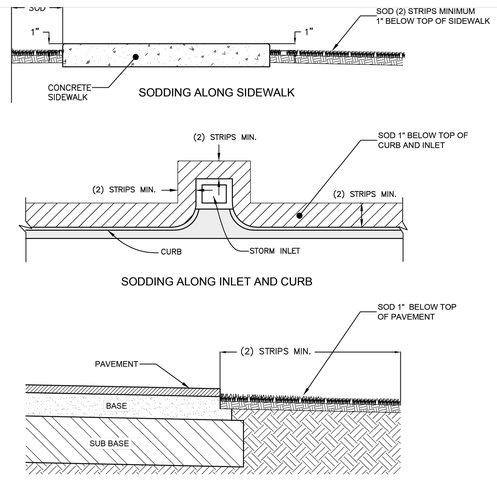
STREET SIGN (N.T.S.)



NOTES:

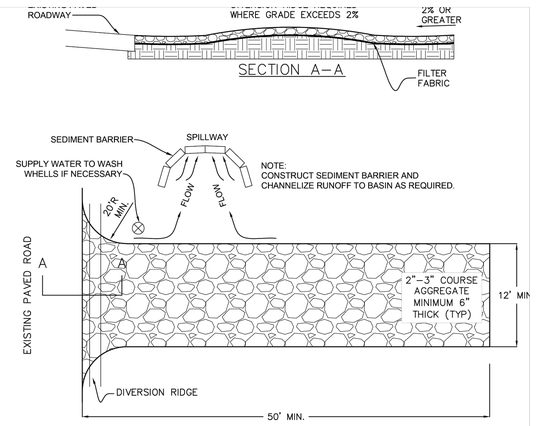
* BARRICADE TO BE USED FOR CITY AND PRIVATE STREETS, NOT APPLICABLE FOR MAJOR STREETS.
* A DEAD END SIGN (F.D.O.T. W14-1) SHALL BE POSTED AT A SUFFICIENT ADVANCE DISTANCE TO PERMIT VEHICLE OPERATOR TO TURN OFF, IF POSSIBLE AT THE NEAREST INTERSECTING STREET.
* BARRICADE SIGNS AND MARKERS SHALL BE IN ACCORDANCE WITH F.DO.T. DESIGN STANDARDS, LATEST EDITION, INDEX #17349.

ROAD BARRICADE (N.T.S.)



NOTE:
ANY EXISTING SODDED AREAS THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESODDED WITH LIKE SOD AND RESTORED TO ITS ORIGINAL STATE.

SOD PLANTING (N.T.S.)



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OR-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED.

TEMPORARY CONSTRUCTION ENTRANCE (N.T.S.)

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-268-3068 FAX: 904-268-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	August 6, 2025
Scale:	NA
Sheet	13E

Printed: Aug 06, 2025 - 8:17am Printed By: justin.williams
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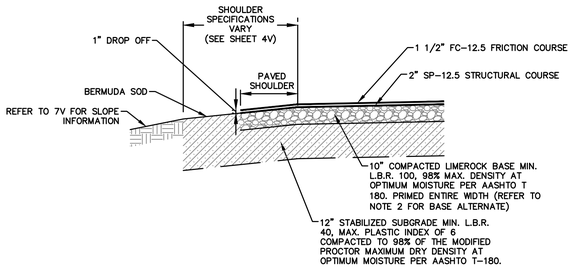
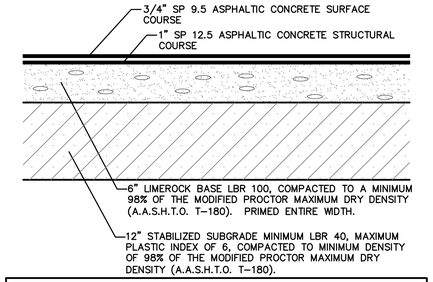


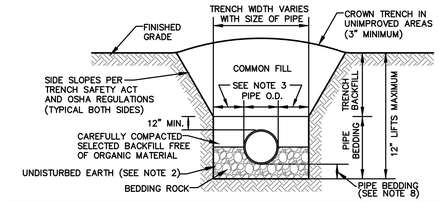
NOTES:
1. ALL DISTURBED AREA SHALL BE SODDED.
2. ALL ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 331 AND 333, F.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
*OPTIONAL BASE GROUP = BASE GROUP #9.

SR-19 TYPICAL PAVEMENT SECTION
N.T.S.



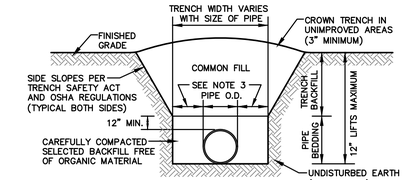
NOTES:
1. ALL DISTURBED AREAS SHALL BE SODDED.
2. SOIL ANALYSIS MAY INDICATE THE NEED FOR THICKER BASE COURSES THAN THOSE HEREIN. THE PAVEMENT THICKNESS SHOWN HEREIN ARE NOT INTENDED TO BE ABSOLUTE, BUT ARE PRELIMINARY CRITERIA AND MAY BE MODIFIED TO ACCOMMODATE THE BEARING CAPACITY OF VARIOUS SUBGRADES.
3. ALL ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 331 AND/OR 333, F.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.

TYPICAL PAVEMENT SECTION - (RESIDENTIAL ROADS)
N.T.S.



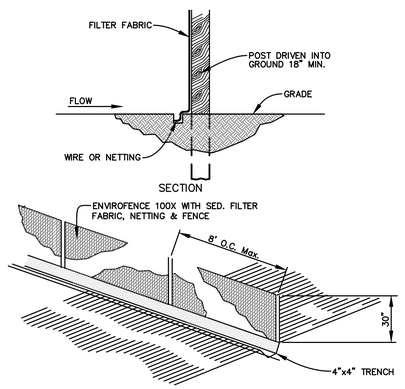
NOTES:
1. TRENCH AND PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% MAX. DENSITY (AASHTO T-180).
2. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE COUNTY.
3. 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
4. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
5. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
6. REFER TO MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE COUNTY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

TYPE A BEDDING AND TRENCH DETAIL
N.T.S.

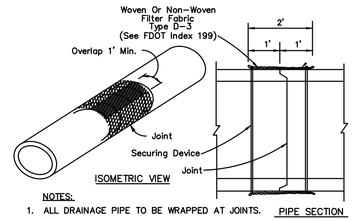


NOTES:
1. TRENCH AND PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% MAX. DENSITY (AASHTO T-180).
2. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE COUNTY.
3. 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
4. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
5. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
6. REFER TO MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES SURFACE RESTORATION WITHIN COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS

TYPE B BEDDING AND TRENCH DETAIL
N.T.S.



SILT FENCE DETAIL
N.T.S.



NOTES:
1. ALL DRAINAGE PIPE TO BE WRAPPED AT JOINTS.
2. COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS.

FILTER FABRIC JACKET
N.T.S.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date:	September 18, 2025
Scale:	NA
Sheet	13F

Printed: Sep 18, 2025 - 1:11pm Printed By: derek.green

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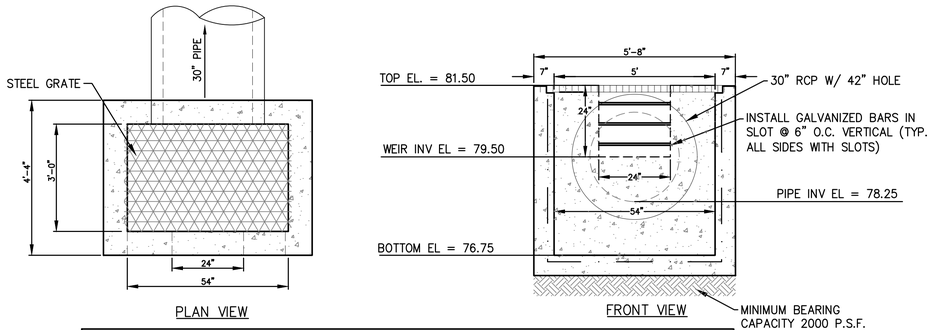
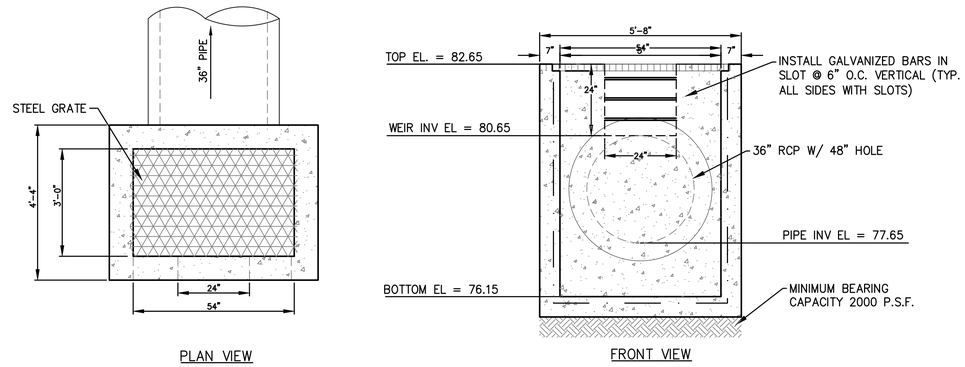


NOTES:
1. NO WORK REGRADING SHALL OCCUR WITHIN PRESERVATION / CONSERVATION AREAS.
2. CONCRETE DESIGN STRENGTH 4,000 PSI, TO BE CONSTRUCTED PER FDOT STANDARD SPECIFICATIONS FOR CONCRETE INLET WITH A PRECAST TOP SLAB, WITH ALL APPLICABLE REINFORCING.
3. PIPES MUST NOT BE IN CONSTRUCTION JOINTS.
4. PIPE SHALL BE FLUSH WITH INSIDE WALL.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON "AS-BUILTS".

MODIFIED "E" INLET DETAIL (S-81/CULV-04-PST)
N.T.S.



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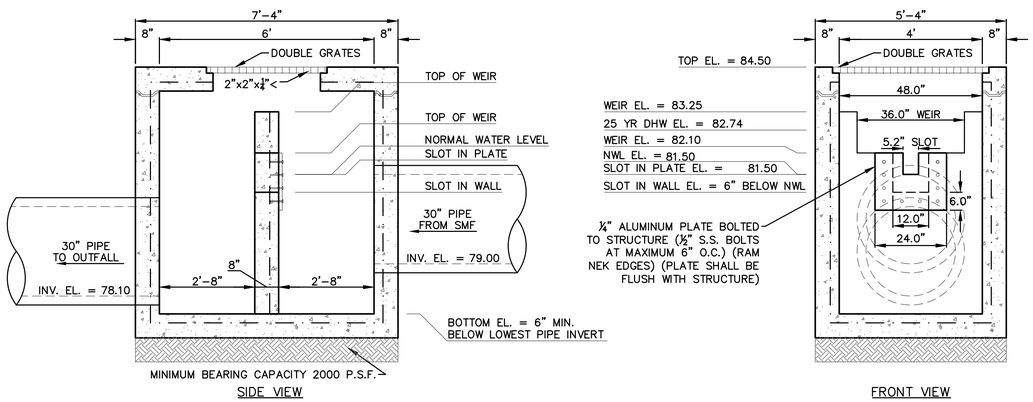
MODIFIED "E" INLET DETAIL (S-85/CULV-07-PST)
N.T.S.



NOTES:
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2. ALL BOLTS TO BE STAINLESS STEEL.
3. PIPES MUST NOT BE IN CONSTRUCTION JOINTS.
4. PIPE SHALL BE FLUSH WITH INSIDE WALL.
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SMF-05 CONTROL STRUCTURE
(S-13) MODIFIED TYPE "J" INLET
N.T.S.

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PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	September 18, 2025
Scale:	NA
Sheet	13G

Printed: Sep 18, 2025 - 1:18pm Printed By: derek.green
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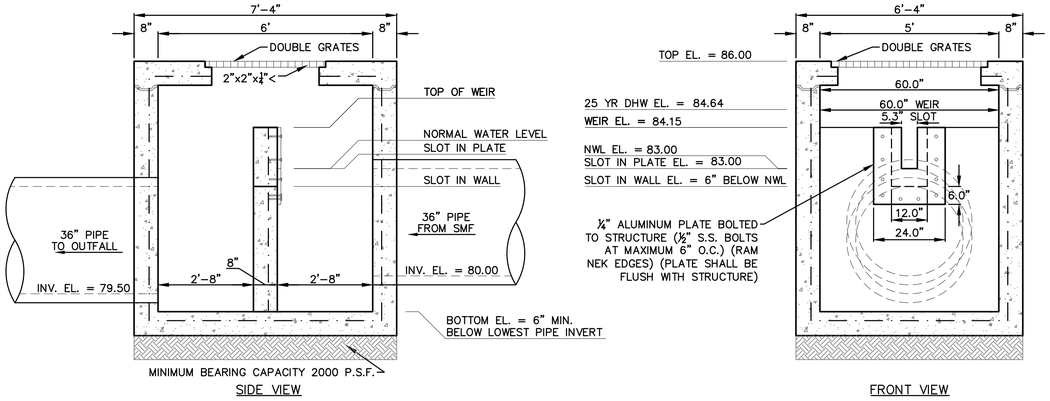
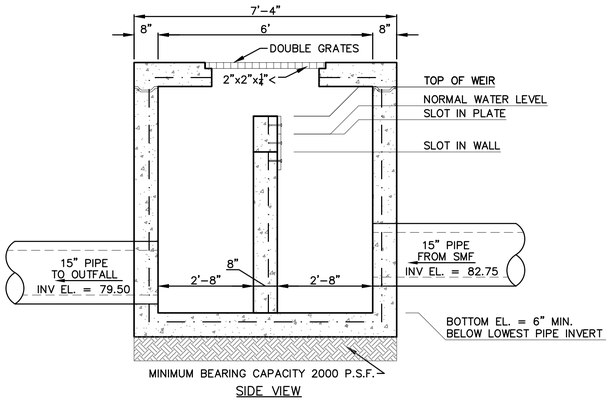


SIDE VIEW

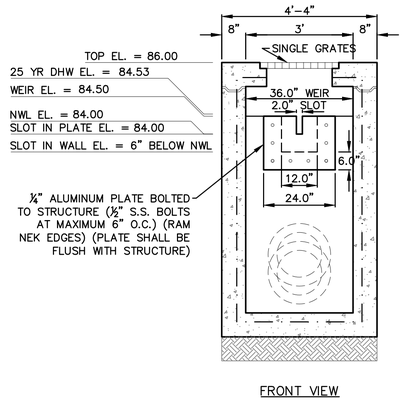
FRONT VIEW

NOTES:
1. CONCRETE DESIGN STRENGTH 4,000 PSI, TO BE CONSTRUCTED PER FDOT STANDARD SPECIFICATIONS FOR CONCRETE INLET WITH A PRECAST TOP SLAB, WITH ALL APPLICABLE REINFORCING.
2. ALL BOLTS TO BE STAINLESS STEEL.
3. PIPES MUST NOT BE IN CONSTRUCTION JOINTS.
4. PIPE SHALL BE FLUSH WITH INSIDE WALL.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON "AS-BUILTS".

SMF-08 CONTROL STRUCTURE
(S-26) MODIFIED TYPE "J" INLET
N.T.S.



SIDE VIEW



FRONT VIEW

NOTES:
1. CONCRETE DESIGN STRENGTH 4,000 PSI, TO BE CONSTRUCTED PER FDOT STANDARD SPECIFICATIONS FOR CONCRETE INLET WITH A PRECAST TOP SLAB, WITH ALL APPLICABLE REINFORCING.
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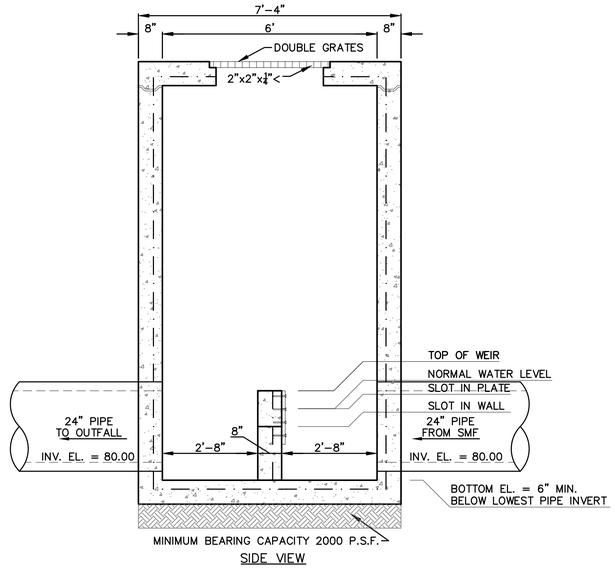
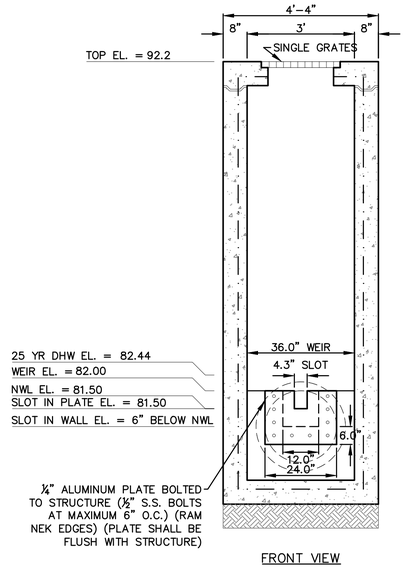
4. PIPE SHALL BE FLUSH WITH INSIDE WALL.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON "AS-BUILTS".

SMF-12 CONTROL STRUCTURE
(S-44) MODIFIED TYPE "J" INLET
N.T.S.



SIDE VIEW



FRONT VIEW

NOTES:
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4. PIPE SHALL BE FLUSH WITH INSIDE WALL.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON "AS-BUILTS".

SMF-13 CONTROL STRUCTURE
(S-49) MODIFIED TYPE "J" INLET
N.T.S.

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PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	August 6, 2025
Scale:	NA
Sheet	13H

Printed: Aug 06, 2025 - 8:18am Printed By: justin.williams
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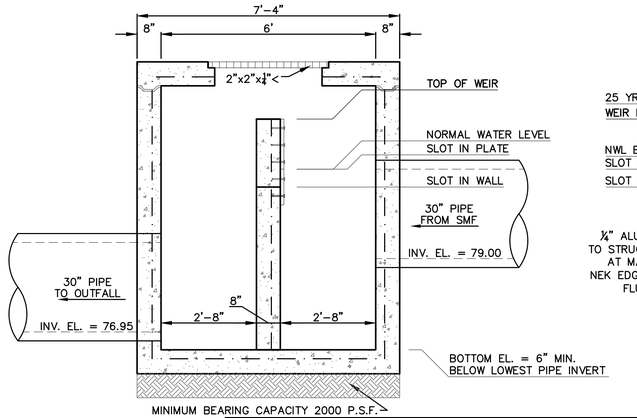
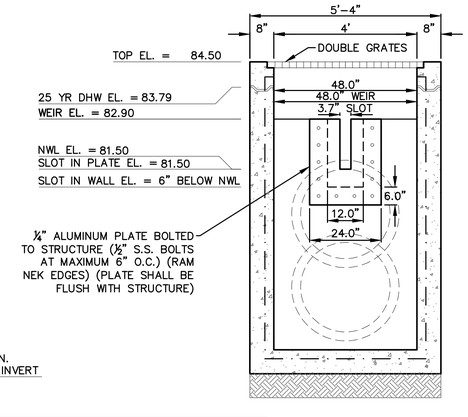


SIDE VIEW



FRONT VIEW

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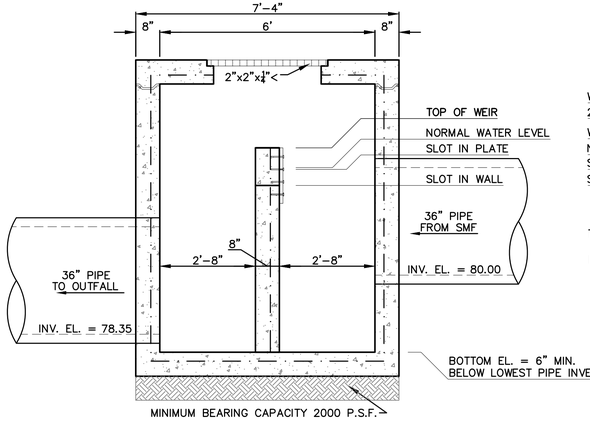
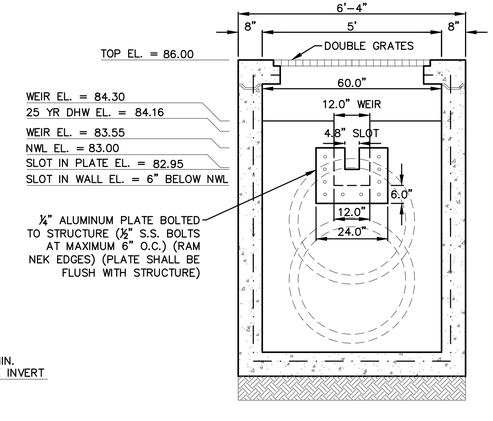
SMF-14 CONTROL STRUCTURE
(S-52) MODIFIED TYPE "J" INLET
N.T.S.



SIDE VIEW



FRONT VIEW

NOTES:
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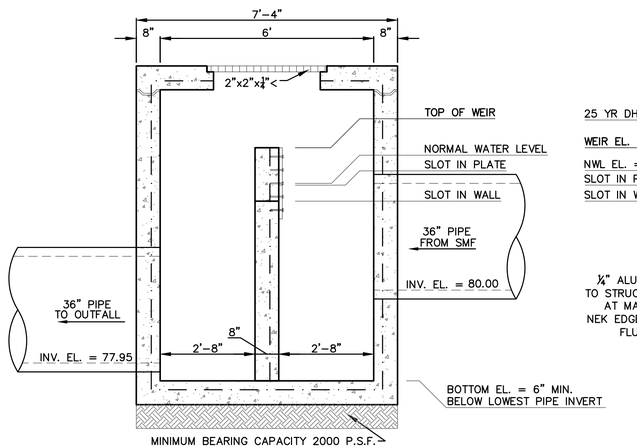
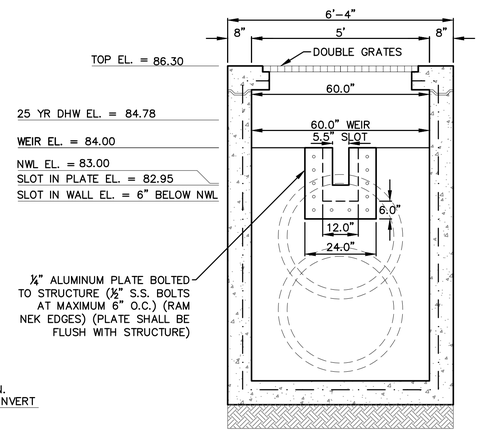
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON "AS-BUILTS".

SMF-15 CONTROL STRUCTURE
(S-55) MODIFIED TYPE "J" INLET
N.T.S.



SIDE VIEW



FRONT VIEW

NOTES:
1. CONCRETE DESIGN STRENGTH 4,000 PSI, TO BE CONSTRUCTED PER FDOT STANDARD SPECIFICATIONS FOR CONCRETE INLET WITH A PRECAST TOP SLAB, WITH ALL APPLICABLE REINFORCING.
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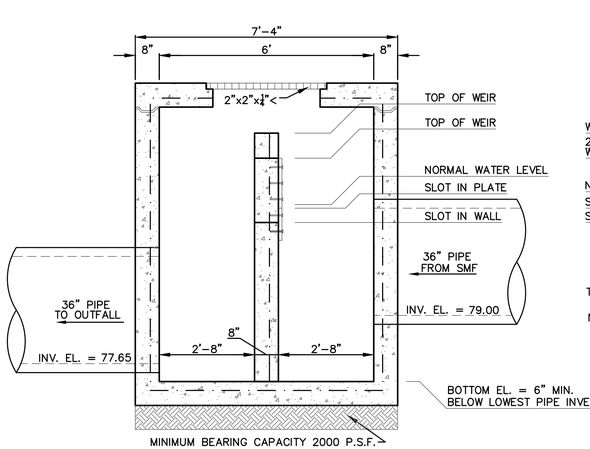
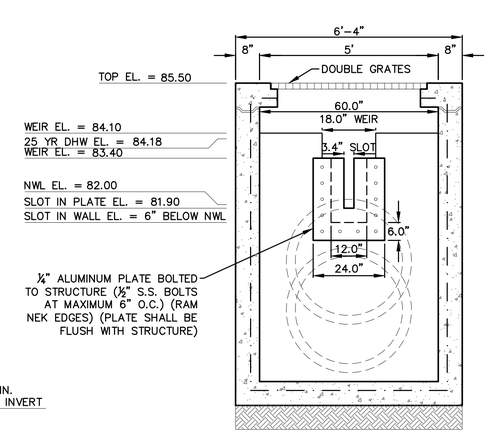
4. PIPE SHALL BE FLUSH WITH INSIDE WALL.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON "AS-BUILTS".

SMF-16 CONTROL STRUCTURE
(S-58) MODIFIED TYPE "J" INLET
N.T.S.



SIDE VIEW



FRONT VIEW

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4. PIPE SHALL BE FLUSH WITH INSIDE WALL.
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SMF-17 CONTROL STRUCTURE
(S-61) MODIFIED TYPE "J" INLET
N.T.S.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3051 FLORIDA REGISTRY 3650

No.	Date	Revision	By

PAVING AND DRAINAGE DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	August 6, 2025
Scale:	NA
Sheet	13I

Printed: Aug 06, 2025 - 8:18am Printed By: justin.williams
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Printed: Aug 01, 2025 - 10:14am Printed By: derek.green
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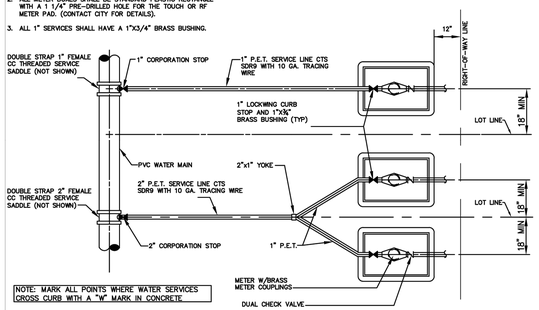
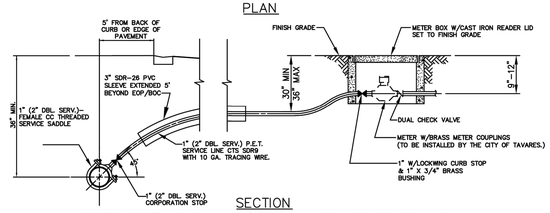
NOTES:

1. METERS TO BE INSTALLED BY THE CITY OF TAVARES.
2. ALL METER BOXES SHALL BE STANDARD PLASTIC RECTANGLE WITH A 1 1/4" PRE-DRILLED HOLE FOR THE TOUCH OR RF METER PAD. (CONTACT CITY FOR DETAILS).
3. ALL 1" SERVICES SHALL HAVE A 1"X3/4" BRASS BUSHING.



PLAN

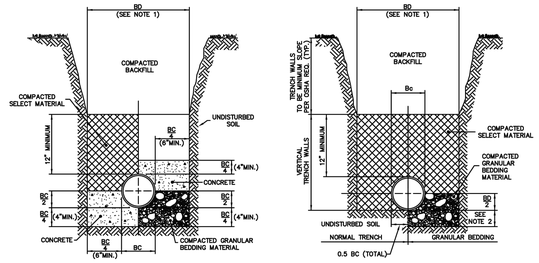


SECTION

SERVICE CONNECTION—SINGLE FAMILY

NOT TO SCALE

(NOTE: METERS TO BE INSTALLED BY CITY OF TAVARES.)



CLASS "A" BEDDING SPECIAL CONDITIONS

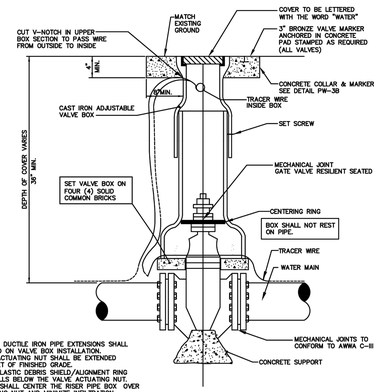
CLASS "B" BEDDING NORMAL CONDITIONS

NOTES: FOR BEDDING AND TRENCHING

1. DIMENSION BC = PIPE O.D.
   DIMENSION BD = TRENCH WIDTH AT TOP OF PIPE
   MAXIMUM BD = BC + 30"
   MINIMUM BD = MAXIMUM DIMENSION OF BELL + 8" (UNSHEETED TRENCH)
2. DEPTH FOR REMOVAL FOR UNSUITABLE MATERIAL SHALL BE AS REQUIRED TO REACH SUITABLE FOUNDATION. FOR ROCK OR OTHER NON-CUSHIONING MATERIAL, DEPTH SHALL BE 6" BELOW BOTTOM OF UTILITY.
3. ALL BACKFILL AND SELECT MATERIAL UNDER ALL ROADWAYS, DRIVES (INCLUDING DIRT DRIVES), AND PARKING AREAS SHALL BE COMPACTED TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. (AASHTO T-180). BACKFILL AND SELECT MATERIAL UNDER ALL OTHER AREAS SHALL BE COMPACTED AS FOLLOWS: FROM BOTTOM OF TRENCH TO 12" ABOVE TOP OF PIPE – 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180). FROM 12" ABOVE TOP OF PIPE TO TOP OF BACKFILL – 90% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180)

TRENCHING AND BEDDING

NOT TO SCALE

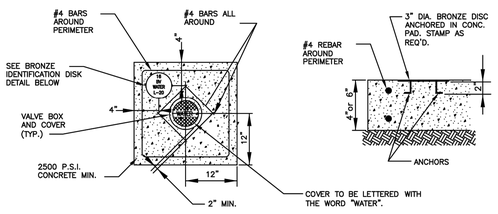


NOTES

1. PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED WITHIN 2 FEET OF FINISHED GRADE.
3. PROVIDE A PLASTIC DEBRIS SHIELD/ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
4. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
5. VALVE BOX SHALL BE A TWO PIECE SCREW TYPE.

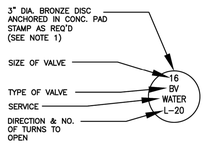
GATE VALVE AND BOX

NOT TO SCALE



NOTE:

1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.
2. 6" THICK CONCRETE PAD IN ROADWAY OR PAVED AREAS, 4" THICK CONCRETE PAD IN OTHER AREAS.



BRONZE IDENTIFICATION DISC DETAIL

VALVE COLLAR

NOT TO SCALE

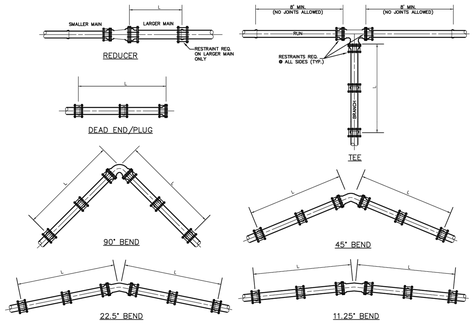


TABLE OF THRUST RESTRAINT LENGTHS

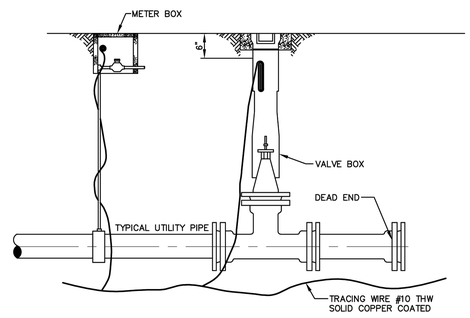
PIPE SIZE (inches)	90° BEND		45° BEND		22.5° BEND		11.25° BEND		TEES		DEAD END & PLUG		REDUCER		
	P.V.C. DJ	DUCTILE IRON DJ	P.V.C. DJ	DUCTILE IRON DJ	P.V.C. DJ	DUCTILE IRON DJ	P.V.C. DJ	DUCTILE IRON DJ	P.V.C. DJ	DUCTILE IRON DJ	P.V.C. DJ	DUCTILE IRON DJ	PIPE SIZES	P.V.C. DJ	DUCTILE IRON DJ
4	20'	16'	8'	7'	4'	3'	2'	2'	15'	10'	45'	29'	6"x4"	33'	21'
6	28'	22'	12'	9'	6'	4'	3'	2'	33'	21'	63'	40'	8"x6"	34'	22'
8	36'	29'	15'	12'	7'	6'	4'	3'	50'	33'	82'	52'	10"x8"	33'	21'
10	43'	34'	18'	14'	9'	7'	4'	3'	68'	43'	98'	63'	12"x10"	34'	22'
12	50'	40'	21'	17'	10'	8'	5'	4'	84'	54'	116'	74'	16"x12"	63'	40'
16	63'	51'	26'	21'	13'	10'	6'	5'	116'	74'	148'	94'	18"x16"	33'	21'
18	70'	56'	29'	23'	14'	11'	7'	6'	131'	83'	163'	103'	20"x18"	33'	21'
20	75'	61'	31'	25'	15'	12'	7'	6'	145'	92'	178'	113'	20"x20"	62'	39'
24	86'	70'	36'	29'	17'	14'	9'	7'	173'	110'	207'	132'			

THRUST RESTRAINT DESIGN NOTES

1. RESTRAINT JOINTS, FITTINGS, & VALVE REQUIREMENTS CALCULATED BY THE THRUST RESTRAINT DESIGN PROGRAM PROVIDED BY EBBA IRON SALES, INC.
2. DATA BASED ON MAX. PRESSURE OF 150 p.s.i., THE UNIFIED SOILS CLASSIFICATION SYSTEM (SOIL TYPE SP), THE PIPE BEDDED IN NATIVE SOIL w/ A MINIMUM OF 2.5' COMPACTED FILL OVER THE PIPE, AND USING A SAFETY FACTOR OF 1.5 FOR THE DATA.
3. ALL FITTINGS & VALVES SHALL HAVE RESTRAINED WITH "MEGA-LUG' RESTRAINTS, & ALL BELL & SPIGOT JOINTS TO BE RESTRAINED WITH A RESTRAINING HARNESS WITHIN THE REQUIRED LENGTH OF RESTRAINED PIPE (L).

THRUST RESTRAINT

NOT TO SCALE



ALL PIPE INSTALLED VIA OPEN CUT SHALL BE INSTALLED WITH #10 THW SOLID COPPER COATED TRACING WIRE. ALL PIPE INSTALLED VIA HDD SHALL BE INSTALLED WITH TWO #10 COPPER CLAD STEEL WIRES.

THE TRACING WIRE MUST BE INSTALLED DIRECTLY BELOW THE PIPE AND BROUGHT TO THE SURFACE AT 500' MINIMUM INTERVALS. WIRE SHALL EXTEND A MINIMUM OF 12" ABOVE GRADE AT EACH INTERVAL AND BE COILED AND PLACED IN A VALVE BOX, METER BOX, MANHOLE, CLEANOUT, LOCATE WIRE BOX, OR OTHER APPLICABLE STRUCTURE.

COLOR CODING:

POTABLE WATER SYSTEM: BLUE
REUSE WATER SYSTEM: PANTONE PURPLE
SANITARY SEWER, FORCE MAINS AND LOW PRESSURE SEWER SYSTEMS: GREEN

1. FOR LOW PRESSURE SEWER, POTABLE WATER AND REUSE WATER SYSTEMS: WIRE SHALL BE INSTALLED BELOW ALL MAINS AND SERVICE LINES AND ATTACHED TO VALVES, HYDRANTS AND FITTINGS. WIRE INSTALLED WITH SERVICE LINES SHALL CONNECT TO THE WIRE INSTALLED BELOW THE MAIN AND EXTEND TO THE CURB STOP.
2. FIRE SPRINKLER LINES: WIRE SHALL CONNECT TO THE WIRE INSTALLED BELOW THE MAIN AND EXTEND TO THE RISER CONNECTION.
3. SANITARY SEWER FORCE MAINS: WIRE SHALL BE INSTALLED BELOW THE FORCE MAIN AND ATTACHED TO ALL VALVES AND FITTINGS AND BROUGHT TO THE SURFACE AND PLACED IN A METAL, CITY OF TAVARES APPROVED, VALVE BOX.
4. DEAD END MAINS: WIRE SHALL BE PLACED IN A PROPERLY IDENTIFIED METAL VALVE BOX AT THE END OF THE RUN.
5. WIRE SHALL NOT BE FASTENED OR COILED TO VALVE OPERATING NUT.
6. UTILITY TRACING WIRE SHALL BE IN ACCORDANCE WITH CITY CSM AND PER CITY'S APPROVED MANUFACTURER LIST.

UTILITY PIPE LOCATION MATERIAL – WIRE

NOT TO SCALE

PRIME AE
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A-			
A-			
A-			
A-			
A-			
A-			

WATER AND SEWER DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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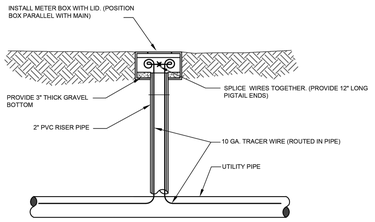
Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	
Sheet	14A

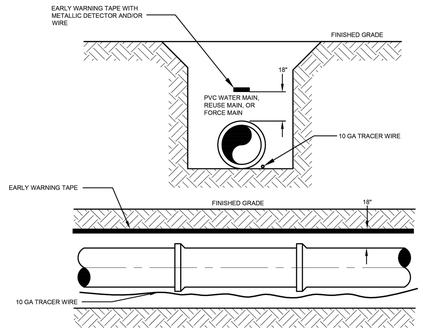


TRACER WIRE BOX UTILIZING METER BOX

NOTES:

1. TRACER WIRE STATION BOX TO BE INSTALLED WHERE THE WIRE CANNOT BE BROUGHT TO GRADE IN A VALVE BOX WITHIN THE MANDATORY 500 FOOT INTERVAL OR WHERE A SPLICE MUST BE MADE ON THE TRACER WIRING. NO UNDERGROUND SPLICES.
2. BOXES SHALL NOT BE LOCATED IN ROADWAYS OR DRIVEWAYS.
3. BOX AND LID PER DETAIL PW-19.
4. TRAFFIC RATED LID (STANDARD-NON BOLT DOWN)
5. LID COLOR SHALL BE PRE-MANUFACTURED OR PAINTED TO MATCH SERVICE (BLUE= POTABLE WATER, GREEN=WASTEWATER, PANTONE PURPLE=RECLAIMED WATER)

TRACER WIRE BOX

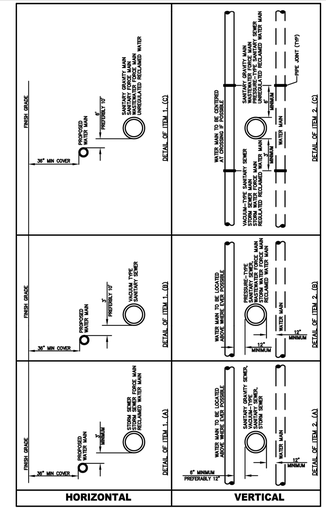


NOTES:

1. ALL MAINS INSTALLED BY OPEN CUT SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE AND WIRE INSTALLED CONTINUOUSLY ALONG THE ALIGNMENT. THE PROTECTION TAPE SHALL BE PER THE CITY'S APPROVED MANUFACTURER LIST. TAPE SHALL BE INSTALLED DURING BACKFILLING 18" ABOVE THE PIPE AND SHALL BE CONTINUOUSLY MARKED FOR THE TYPE OF PIPE (EXAMPLE: CAUTION, WATER MAIN BURIED BELOW"). THE TAPE SHALL HAVE A METALLIC DETECTABLE STRIP INCLUDED AND COLOR CODED AS FOLLOWS:
   BLUE - POTABLE WATER
   GREEN - SANITARY FORCE MAIN, GRAVITY SEWER, LOW PRESSURE MAIN
   PANTONE PURPLE - RECLAIMED WATER
   RED - DEDICATED FIRE LINE
2. ALL PVC MAINS SHALL BE A SOLID COLOR AS DESCRIBED ABOVE.
   ALL DUCTILE IRON MAINS SHALL BE WRAPPED WITH COLOR CODED BAGS.
   ALL POTABLE WATER PIPE SHALL BEAR THE NATIONAL SANITATION FOUNDATION (NSL) SEAL OF APPROVAL.

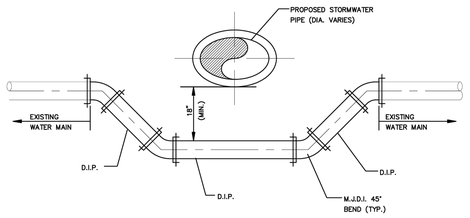
UTILITY PIPE LOCATION MATERIAL – TAPE

NOT TO SCALE



UTILITY SEPARATION

NOT TO SCALE

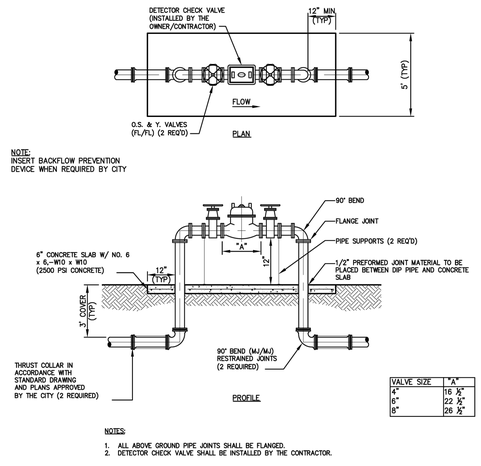


NOTES:

1. ALL PROPOSED JOINTS SHALL BE RESTRAINED.
2. ALL EXISTING JOINTS WITHIN SHALL BE RESTRAINED IN ACCORDANCE WITH GR-6.
3. ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH CHAPTER 62-555.314 F.A.C.

WATER LINE CROSSING

NOT TO SCALE



NOTE:
INSERT BACKFLOW PREVENTION DEVICE WHEN REQUIRED BY CITY

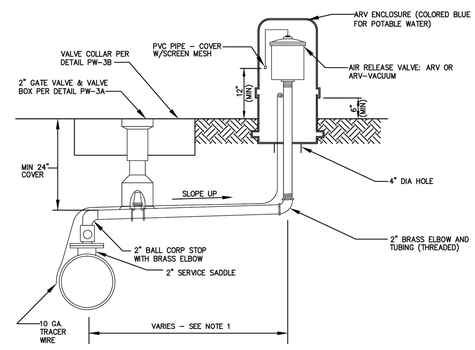
VALVE SIZE	"A"
4"	16 ½"
6"	22 ½"
8"	28 ½"

NOTES:

1. ALL ABOVE GROUND PIPE JOINTS SHALL BE FLANGED.
2. DETECTOR CHECK VALVE SHALL BE INSTALLED BY THE CONTRACTOR.

DETECTOR CHECK VALVE ASSEMBLY

NOT TO SCALE



NOTES:

1. OFFSET DISTANCE SHOWN ON DRAWINGS.
2. ADJUST HORIZONTAL LOCATION OF ARV ENCLOSURE, AS REQUIRED TO AVOID SIDEWALK. LOCATE ARV ENCLOSURE WITHIN 1' OF R/W OR AS OTHERWISE DETERMINED BY THE CITY.

OFFSET AIR RELEASE VALVE VAULT

NOT TO SCALE

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No	Date	Revision	By
A.			
A.			
A.			
A.			
A.			
A.			

WATER AND SEWER DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: APR 2025	
Scale:	
Sheet 14B	

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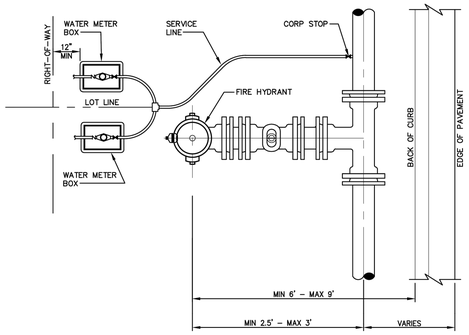
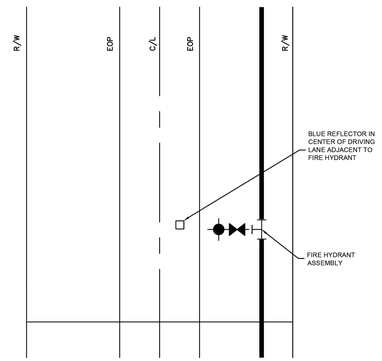


NOTES:

1. ALL METER BOXES TO BE LOCATED INSIDE ROAD R/W LINE
2. DETAIL TO BE USED WHERE FIRE HYDRANTS AND WATER SERVICES ARE LOCATED ON PLANS AND CONFLICT APPEARS APPARENT.

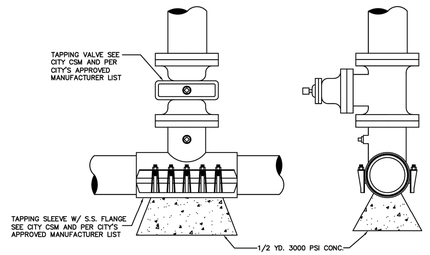
TYPICAL WATER SERVICE AND HYDRANT LOCATION

NOT TO SCALE



FIRE HYDRANT REFLECTOR

NOT TO SCALE



WET TAP SLEEVE AND TAPPING VALVE

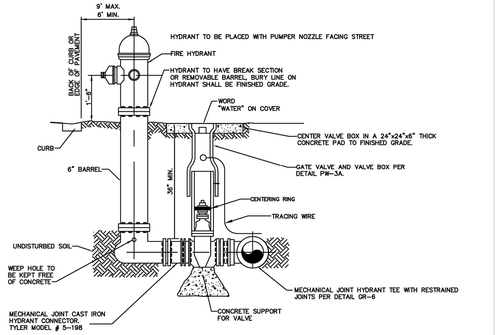
NOT TO SCALE

PAINTING

1. APPLY TWO COATS OF OSHA SAFETY INDUSTRIAL RED PAINT TO HYDRANT BARREL.
2. APPLY TWO COATS OF OSHA SAFETY INDUSTRIAL ENAMEL PAINT TO THE BONNET AND NOZZLE CAPS. THE UTILITY DEPARTMENT INSPECTOR WILL DETERMINE THE COLOR TO PAINT THE HYDRANT BONNET AND NOZZLE CAPS BY FLOW TESTING HYDRANT.
   - BLUE 1500 GPM OR MORE (SHERWIN WILLIAMS #SW4086)
   - GREEN 1000 GPM TO 1499 GPM (SHERWIN WILLIAMS #B54614)
   - ORANGE 500 GPM TO 999 GPM (SHERWIN WILLIAMS #B54E39)
   - RED 499 GPM OR LESS (SHERWIN WILLIAMS #B54R38)
   - RED HYDRANT BARREL (SHERWIN WILLIAMS #B54R38)

SPECIFICATIONS

1. AWWA SPECIFICATIONS C-502
2. TWO 2-1/2" HOSE NOZZLE DISCHARGE
3. ONE 4-1/2" PUMPER NOZZLE DISCHARGE
4. ONE 1-1/2" OPERATING NUT, LEFT
5. ALL HYDRANTS SHALL BE EQUIPPED WITH FITTINGS TO ALLOW FOR ELEVATION ADJUSTMENTS.
6. 52" MAIN VALVE OPENING
7. RESTRAINED JOINTS OR ALL THREADED ROD REQUIRED TO SECURE PIPE, RISER AND VALVE IN THE FIRE HYDRANT ASSEMBLY TO THE MAIN



FIRE HYDRANT WITH VALVE

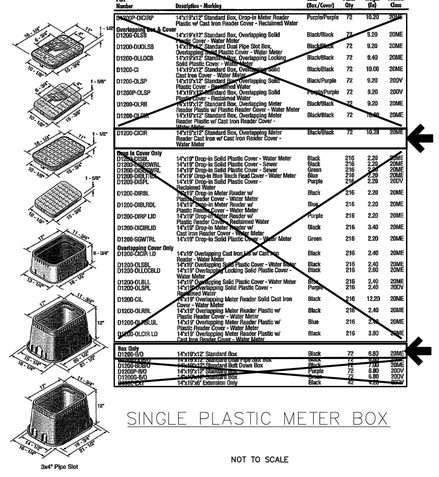
NOT TO SCALE
(STANDARD FIRE HYDRANT ASSEMBLY)

NDS METER BOXES

STANDARD COMMERCIAL GRADE

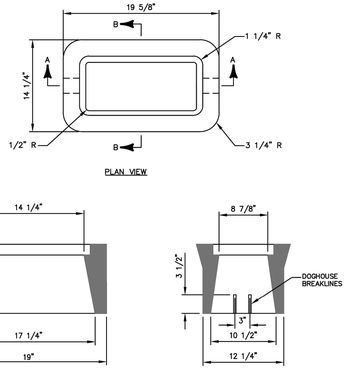
NDS D1200 Meter Boxes (cont.)

Part Number	Description - Marking	Color (Box/Cover)	Pallet Qty	Weight (lb)	Product Class
D1200P-DKDRP	14"x19"x12" Standard Box, Drop-in Meter Reader Plastic w/ Cast Iron Traffic Cover - Restrained Water	Purple/Purple	72	10.20	200M
Overlapping Box & Cover					
D1200-OLCS	14"x19"x12" Standard Box, Overlapping Solid Plastic Cover - Water Meter	Black/Black	72	9.00	20ME
D1200-DUCLSS	14"x19"x12" Standard Dark Pipe Slot Box, Overlapping Solid Plastic Cover - Water Meter	Black/Black	72	9.20	20ME
D1200-OLLOCB	14"x19"x12" Standard Box, Overlapping Locking Solid Plastic Cover - Water Meter	Black/Black	72	9.40	20ME
D1202-CI	14"x19"x12" Standard Box, Overlapping Locking Cast Iron Cover - Water Meter	Black/Black	72	19.00	20ME
D1200-OLSP	14"x19"x12" Standard Box, Overlapping Solid Plastic Cover - Water Meter	Black/Purple	72	9.20	200V
D1200P-OLSP	14"x19"x12" Standard Box, Overlapping Solid Plastic Cover - Reclaimed Water	Purple/Purple	72	9.20	200V
D1200-OLRB	14"x19"x12" Standard Box, Overlapping Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black/Black	72	9.20	20ME
D1200-OLCRB	14"x19"x12" Standard Box, Overlapping Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black/Black	72	10.40	20ME
D1220-CICR	14"x19"x12" Standard Box, Overlapping Meter Reader Cast Iron w/ Cast Iron Reader Cover - Water Meter	Black/Black	72	19.38	20ME
Drop In Cover Only					
D1200-CIDR	14"x19" Drop-in Solid Plastic Cover - Water Meter	Black	216	2.20	20ME
D1200-DKDRWTRL	14"x19" Drop-in Solid Plastic Cover - Sewer	Green	216	2.20	20ME
D1200-DKDRWTRL	14"x19" Drop-in Solid Plastic Cover - Sewer	Green	216	2.20	20ME
D1200-DKDRBL	14"x19" Drop-in Box Watch Hand Cover - Water Meter	Blue	216	2.20	20ME
D1200-DKDPL	14"x19" Drop-in Solid Plastic Cover - Reclaimed Water	Purple	216	2.20	200V
D1200-DIRRL	14"x19" Drop-in Meter Reader w/ Plastic Reader Cover - Water Meter	Black	216	2.30	20ME
D1200-DIRLRDL	14"x19" Drop-in Meter Reader w/ Plastic Reader Cover - Water Meter	Black	216	2.20	20ME
D1200-DIRP LID	14"x19" Drop-in Meter Reader w/ Plastic Reader Cover - Reclaimed Water	Purple	216	2.20	20ME
D1200-DIDRLID	14"x19" Drop-in Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black	216	3.40	20ME
D1200-SDWTRL	14"x19" Drop-in Solid Plastic Cover - Water Meter	Green	216	2.20	20ME
Overlapping Cover Only					
D1202-CIOR LID	14"x19" Overlapping Cast Iron Lid w/ Cast Iron Reader - Water Meter	Black	216	2.40	20ME
D1200-OLRBL D1200-OLLOCBLD	14"x19" Overlapping Solid Plastic Cover - Water Meter 14"x19" Overlapping Locking Solid Plastic Cover - Water Meter	Black Black	216 216	2.40 2.40	20ME 20ME
D1200-OLBLL D1200-OLBPL	14"x19" Overlapping Solid Plastic Cover - Water Meter 14"x19" Overlapping Solid Plastic Cover - Reclaimed Water	Blue Purple	216 216	2.40 2.40	20ME 200V
D1200-CIL	14"x19" Overlapping Meter Reader Solid Cast Iron Cover - Water Meter	Black	216	12.20	20ME
D1200-OLRRL	14"x19" Overlapping Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Black	216	2.40	20ME
D1200-OLRBLBL	14"x19" Overlapping Meter Reader Plastic w/ Plastic Reader Cover - Water Meter	Blue	216	2.40	20ME
D1200-OLCIR LD	14"x19" Overlapping Meter Reader Plastic w/ Cast Iron Reader Cover - Water Meter	Black	216	3.80	20ME
Box Only					
D1200-DO	14"x19"x12" Standard Box	Black	72	6.60	20ME
D1200-DOBW	14"x19"x12" Standard Box with Bolt Down Slot	Black	72	7.00	20ME
D1200-BDO	14"x19"x12" Standard Bolt Down Box	Black	72	6.80	200V
D1200-BPO	14"x19"x12" Standard Box	Purple	72	6.80	200V
D1200-EXT	14"x19"w" Extension Only	Black	72	7.00	20ME



SINGLE PLASTIC METER BOX

NOT TO SCALE



NOTE:
METER BOX SHALL BE COMPLETE WITH POLYMER COVER LID

SINGLE POLYMER METER BOX

NOT TO SCALE

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
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A			
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A			
A			
A			

WATER AND SEWER DETAILS

HILLSIDE GROVE
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Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: APR 2025	
Scale:	
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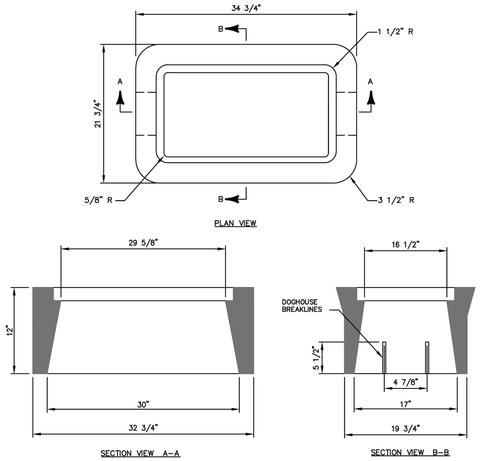
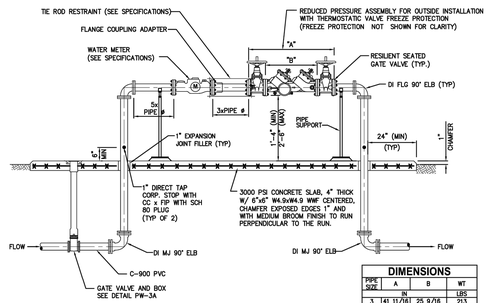


NOTE:
METER BOX SHALL BE COMPLETE WITH POLYMER COVER AND LID

JUMBO POLYMER METER BOX

NOT TO SCALE

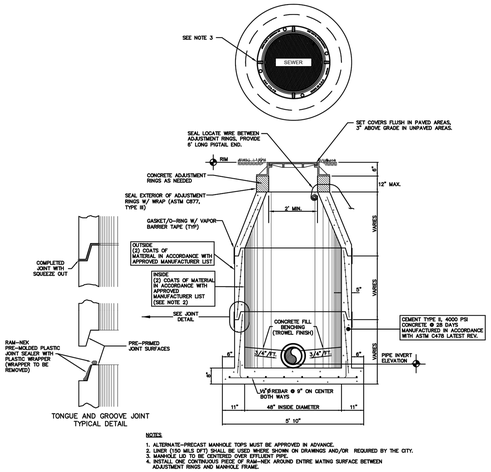


DIMENSIONS			
PIPE SIZE	A	B	WT
	IN		LBS
3	41 11/16	25 9/16	213
4	50 7/16	33 5/16	360
6	59 11/16	38 9/16	601
8	69 3/16	46 1/16	882
10	84 3/16	58 1/16	1593

NOTES:
1. ALL ABOVE GROUND PIPE TO BE PAINTED WITH 2 COATS OF APPROVED BLUE PAINT.

REDUCED PRESSURE BACKFLOW PREVENTER W/ WATER METER DETAIL

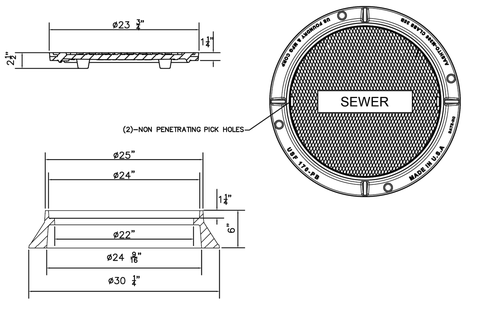
NOT TO SCALE



NOTES:
1. ALTERNATE–PRECAST MANHOLE TOPS MUST BE APPROVED IN ADVANCE.
2. LINER (100 MILS DFT) SHALL BE USED WHERE SHOWN ON DRAWINGS AND/OR REQUIRED BY THE CITY.
3. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOWS.
4. INSTALL LINE CONTINUOUS PRECAST RAM-NEK AROUND ENTIRE MATING SURFACE BETWEEN ADJUSTMENT RINGS AND MANHOLE FRAME.

SANITARY PRECAST MANHOLE

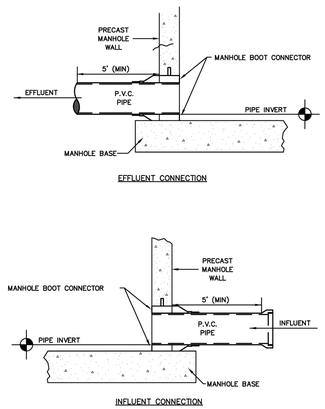
NOT TO SCALE



*MODEL USF 170–PB RING AND CE–PB COVER
RING NO. 8021468
COVER NO. 8017774
MATERIAL AASHTO M306 GRAY CAST IRON CLASS 35B

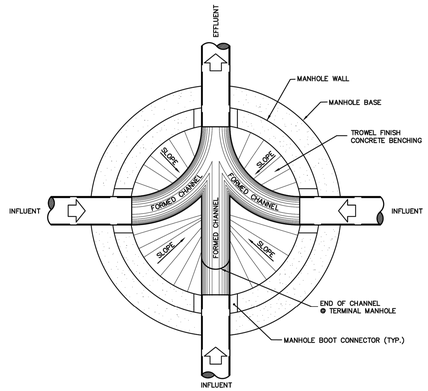
SANITARY MANHOLE COVER

NOT TO SCALE



PIPE CONNECTION TO PRECAST SANITARY MANHOLE

NOT TO SCALE



FLOW PATTERNS FOR INVERT CHANNELS

NOTES:
1. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS. HALF PIPE INVERT CHANNELS.
2. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOWS.
3. CHANNELS FOR FUTURE CONNECTIONS (STUBS) SHALL BE CONSTRUCTED, FILLED WITH SAND AND COVERED WITH 1" OF MORTAR.

TYPICAL MANHOLE PLAN

NOT TO SCALE

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No	Date	Revision	By
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WATER AND SEWER DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	Q.C.: RCW
Date: APR 2025	
Scale:	
Sheet 14D	

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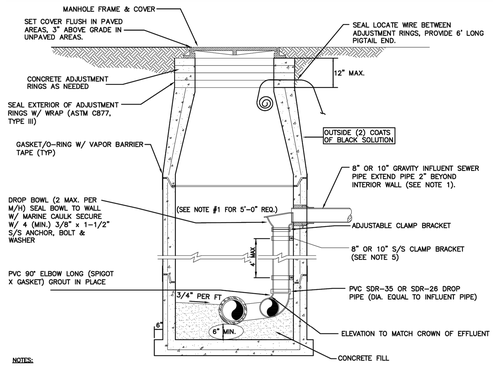
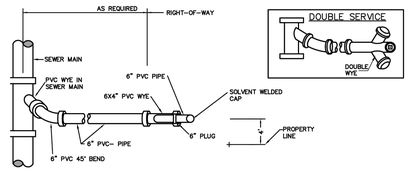


NOTES:

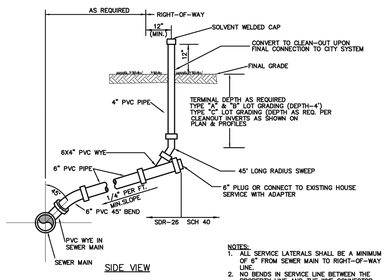
1. THIS ASSEMBLY IS FOR 8" OR 10" GRAVITY INFLUENT LINES ONLY. NO DROPS ALLOWED FOR FORCE MAINS. MAXIMUM OF 2 INSIDE DROP BOWLS PER MANHOLE. A 5'-0" DIA. MANHOLE (6" THICK WALLS) IS REQUIRED. THE INSIDE DROP FOR 8" HIGH-LINE SHALL BE CONSTRUCTED SIMILAR TO ABOVE.
2. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
3. THE INTERIOR OF MANHOLE AND THE INTERIOR OF ADJUSTMENT RINGS SHALL BE LINED (150 MILS DFT) AS INDICATED ON THE DRAWINGS AND/OR REQUIRED BY THE CITY.
4. THE DROP BOWL ASSEMBLY SHALL BE INSTALLED PRIOR TO APPLICATION OF SPECIALTY LINING MATERIAL.
5. ADJUSTABLE CLAMPING BRACKET (MIN. 2 PER DROP BOWL ASSY). 1-1/2" WIDE, 11 GA. W/ 3/8" DIA. 18-8 PINCH BOLTS AND NUTS. SECURE TO M/H WALL WITH (2) 3/8" X 1" BOLT, ANCHOR & WASHER PER BRACKET ASSY. ALL 316 STAINLESS STEEL MATERIALS.
6. INSTALL ONE CONTINUOUS PIECE OF RAM-NEK AROUND ENTIRE MATING SURFACE BETWEEN ADJUSTMENT RINGS AND MANHOLE FRAME.
7. MANHOLE LID SHALL BE CENTERED OVER DROP BOWL.

INSIDE DROP STANDARD PRECAST MANHOLE

NOT TO SCALE



PLAN VIEW

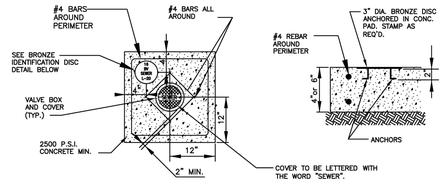


SIDE VIEW

NOTES:
1. ALL SERVICE LATERALS SHALL BE A MINIMUM OF 6" FROM SEWER MAIN TO RIGHT-OF-WAY LINE.
2. NO BENDS IN SERVICE LINE BETWEEN THE PROPERTY LINE AND THE WYE CONNECTOR.

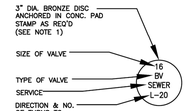
SANITARY SEWER SERVICE

PVC SEWER SERVICE – NOT TO SCALE



NOTE:

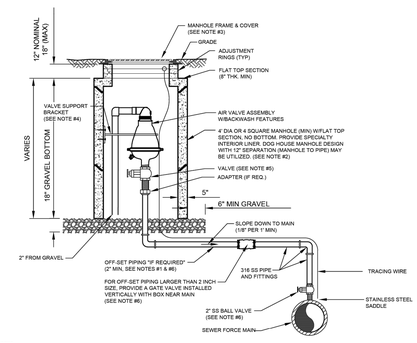
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.
2. 6" THICK CONCRETE PAD IN ROADWAY OR PAVED AREAS.



BRONZE IDENTIFICATION DISC DETAIL

VALVE COLLAR

NOT TO SCALE

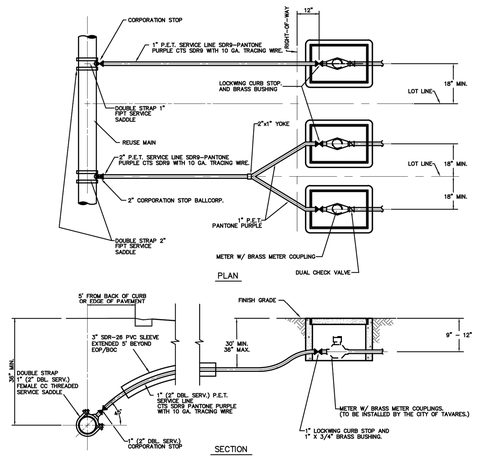


NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA. IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER, PIPING SHALL BE 316 STAINLESS STEEL SCH 40, 316 GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER, PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED.
2. THE CONCRETE MANHOLE SHALL INCLUDE A LINER TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE CITY STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDERSIDE OF STANDARD COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY)
4. A VALVE SUPPORT BRACKET IS ONLY REQUIRED FOR ASSEMBLIES WHICH INCLUDE OFF-SET PIPING. THE BRACKET SHALL BE WELDED AND FABRICATED FROM ALL 316 STAINLESS STEEL MATERIALS AND INCLUDE 6" x 6" x 3/" THICK END PLATES (CONTOURED TO MATCH ATTACHING SURFACES), 3" ANGLE IRON FOR SUPPORT ARM AND TWO U-BOLTS 3/ DIA TO ATTACH AROUND AIR VALVE. SECURE TO CONCRETE MANHOLE WITH FOUR 5/ DIA X 2" LONG SS ANCHOR (MIN). MODIFY THE ABOVE AS REQUIRED TO FIT SPECIFIC AIR VALVE, AND TO ASSURE A SOLID SUPPORT BRACKET.
5. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGED PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
6. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE, OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN WITH A GEAR ACTUATOR). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

AIR VALVE ASSEMBLY INSIDE MANHOLE

NOT TO SCALE



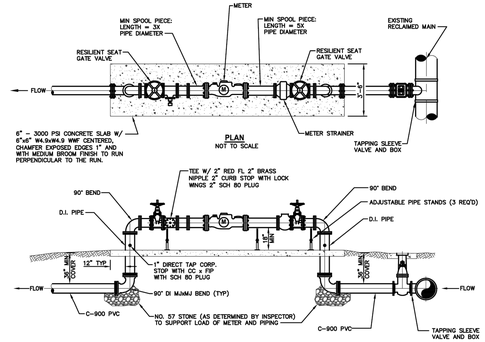
PLAN

SECTION

RECLAIMED WATER SERVICE CONNECTION

NOT TO SCALE

(NOTE: METERS TO BE INSTALLED BY CITY OF TAVARES.)



ELEVATION
NOT TO SCALE

NOTES:
1. ALL ABOVE GROUND PIPE TO BE PAINTED WITH 2 COATS OF APPROVED PANTONE PURPLE PAINT.

RECLAIMED WATER METERING

NOT TO SCALE

(NOTE: METERS TO BE INSTALLED BY CITY OF TAVARES.)

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
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WATER AND SEWER DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	
Sheet	14E

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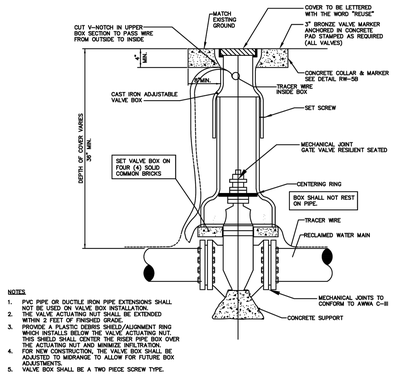
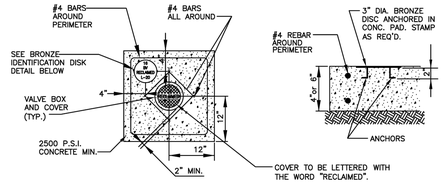


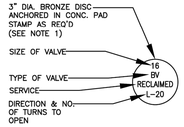
NOTES:
1. PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED WITHIN 2 FEET OF FINISHED GRADE.
3. PROVIDE A PLASTIC DEBRIS SHIELD/ALIGNMENT RING AROUND THE VALVE BOX AT THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
4. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
5. VALVE BOX SHALL BE A TWO PIECE SCREW TYPE.

GATE VALVE AND BOX

NOT TO SCALE



NOTE:
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.
2. 6" THICK CONCRETE PAD IN ROADWAY OR PAVED AREAS, 4" THICK CONCRETE PAD IN OTHER AREAS.



BRONZE IDENTIFICATION DISC DETAIL

VALVE COLLAR

NOT TO SCALE

1. ALL RECLAIMED WATER PIPING TO BE OWNED AND MAINTAINED BY THE TOWN SHALL BE A SOLID PANTONE PURPLE COLOR.
2. RECLAIMED WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, OR 18 FOR PIPE SIZES 4"-12". PIPES 14" & LARGER SHALL BE AWWA C-905, DR 25. PRESSURE CLASS 350 DIP IS AN ACCEPTABLE ALTERNATE. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION FOR LAYING SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS LATEST RECOMMENDATIONS.
3. DEPTH OF RECLAIMED WATER LINES TO BE 36" MIN. BELOW FINISHED GRADE.
4. RECLAIMED WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH CHAPTER 62-555.314, F.A.C.
6. ALL RECLAIMED WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON PIPE AND SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, EXCEPT DIRECTIONAL BORES, WHICH SHALL BE SDR-11 HDPE.
7. ALL IRRIGATION SLEEVING UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.
8. ALL OTHER REQUIREMENTS OF THE TOWN WATER SYSTEM SHALL APPLY TO THE RECLAIMED WATER SYSTEM.
9. PROPER SIGNAGE FOR PUBLIC ACCESS IRRIGATION AREAS TO BE SUPPLIED BY THE DEVELOPER / CONTRACTOR, IN ACCORDANCE WITH CHAPTER 62-610.418, F.A.C.

GENERAL RECLAIMED WATER NOTES

GENERAL WATER NOTES

1. WATER SYSTEM COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS. CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-555 FLORIDA ADMINISTRATIVE CODE.
2. ALL PIPING SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.
3. WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12". PIPES 14" OR LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, FOR LAYING, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.
4. DEPTH OF WATER LINES TO BE 36" MINIMUM COVER FROM FINISH GRADE.
5. WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. ALL WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON.
7. ALL CASINGS UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.
8. DISINFECTING: FOLLOWING THE PRESSURE TESTING, THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE NEW WATER DISTRIBUTION SYSTEM. DISINFECTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA STANDARD C651 "DISINFECTING WATER MAINS", AND ALL APPROPRIATE AGENCY APPROVAL.
9. ALL HYDROSTATIC TESTS SHALL BE IN ACCORDANCE WITH AWWA C600 FOR DUCTILE IRON PIPE AND C605/M23 FOR PVC PIPE.
10. ALL WATER MAINS SHALL BE INSTALLED, PRESSURE AND LEAK TESTED IN ACCORDANCE WITH AWWA C600, (62-555.320(21)(B)1 AND 62-555.330, F.A.C. ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.
11. ALL PIPING MATERIALS AND SPECIFICATIONS COVERING PIPES, JOINTS AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, SPECIALS AND APPURTENANCES SHALL ALL BE IN ACCORDANCE WITH THE CORRESPONDING AWWA STANDARDS AND BE CONFORMING TO NSF REQUIREMENTS, AS MAY BE APPLICABLE, WITH EXCEPTIONS ALLOWED ONLY IF DOCUMENTATION AND ASSURANCES ARE PROVIDED IN COMPLIANCE WITH PARAGRAPHS 62-555.320(3) (D), 622-555.320 (3) (B), AND 62-555.320 (21) (C), F.A.C. THE LEAD USE PROHIBITION IN RULE 62-555.322, F.A.C. SHALL ALSO APPLY. POLYETHYLENE TUBING SHALL BE PER AWWA C901. UNDERGROUND SERVICE LINES AND VALVES SHALL BE PER AWWA C800.

COLOR CODING:
ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.) [FAC 62CELL 555.320(21)(B)3]

UNLESS DESCRIBED IN THE CITY CSM ELSEWHERE, ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH **CHAPTER 62-555.314, F.A.C.,** AND ANY UPDATES TO THE F.A.C., AND IN CONFORMANCE WITH ALL SEPARATION REQUIREMENTS AS FOUND THEREIN.

62-555.314 LOCATION OF PUBLIC WATER SYSTEM MAINS.
FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.

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

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

GENERAL WATER NOTES

(D) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS AND RECLAIMED WATER PIPELINES.

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE; HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES:

(A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.

(B) EFFECTIVE AUGUST 28, 2003. WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE), THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THIS REQUIREMENT (I.E., THE DEPARTMENT SHALL ALLOW CONSTRUCTION OF CONFLICT MANHOLES), BUT SUPPLIERS OF WATER OR PERSONS PROPOSING TO CONSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT AND MUST PROVIDE IN THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION THE FOLLOWING INFORMATION:
1. TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.
2. A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE.
3. ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS IN SUB-PARAGRAPHS A. THROUGH D. BELOW. - 361
   A. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.
   B. WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE).
   C. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.
   D. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE.

(4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(A) NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

GENERAL WATER NOTES

(5) EXCEPTIONS. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) OR (2) ABOVE, THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THESE REQUIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS PROVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROVIDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:

(A) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE:
1. USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE;
2. USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR
3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

(B) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS-THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:
1. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND
2. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No	Date	Revision	By
A			
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WATER AND SEWER DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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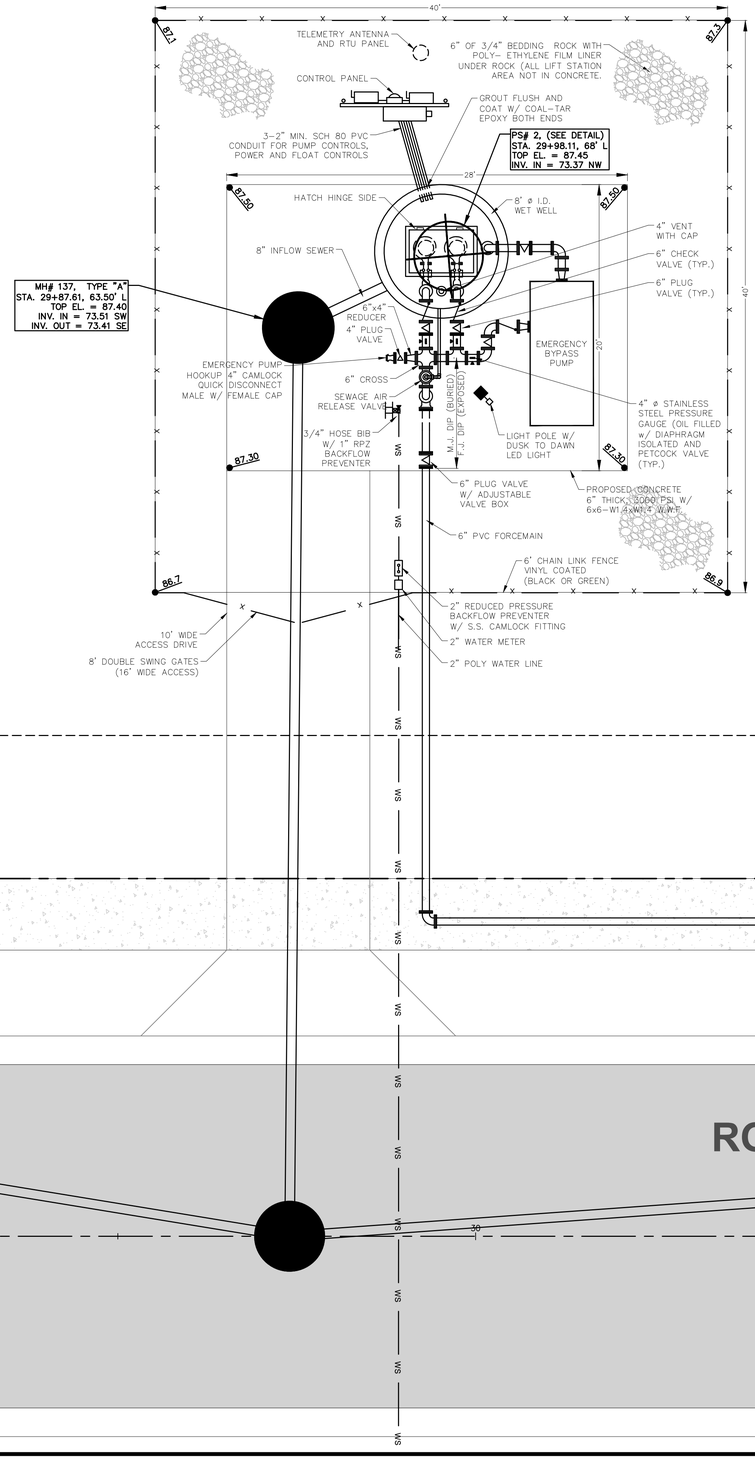
Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	

Sheet 14F



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No.	Date	Revision	By
A.			
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PUMP STATION #2 SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079	
Designed: JEW	Drawn: DCG
Checked: JEW	Q.C.: RCW
Date: APR 2025	
Scale: 1" = 5'	
Sheet 15A	

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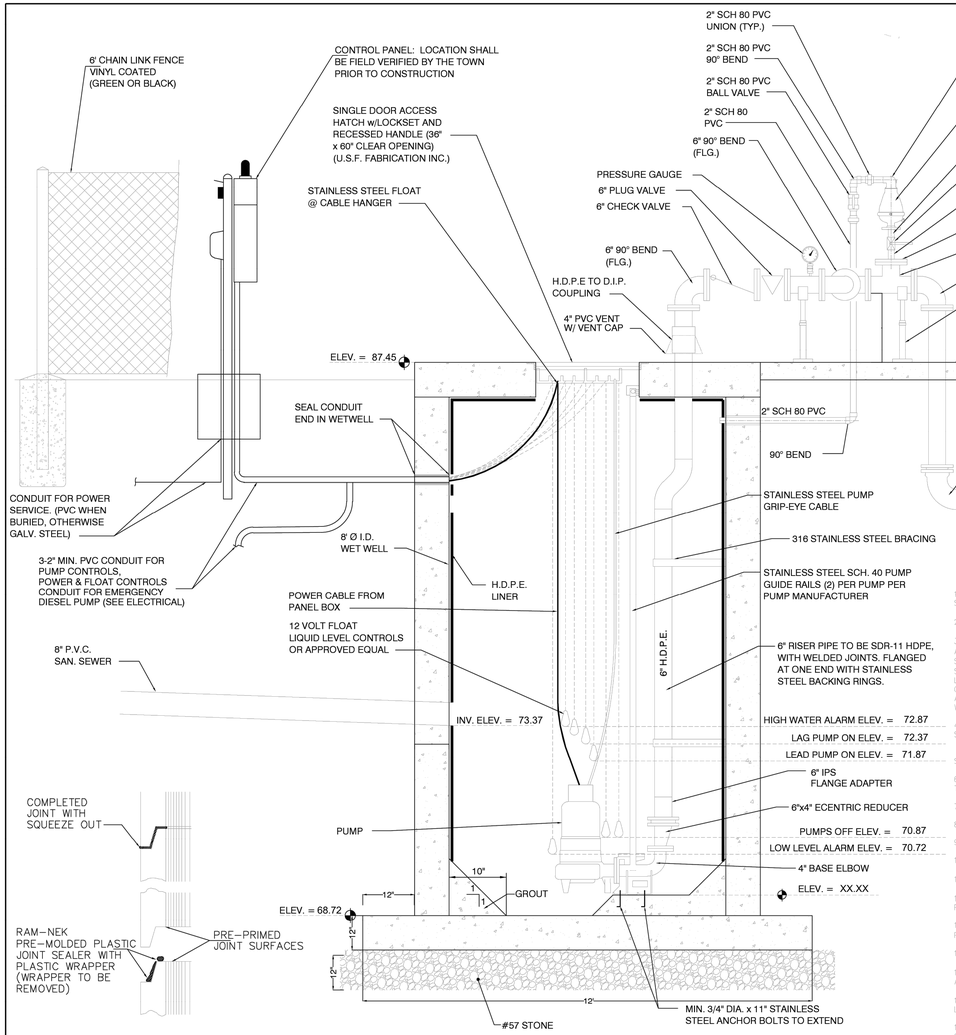
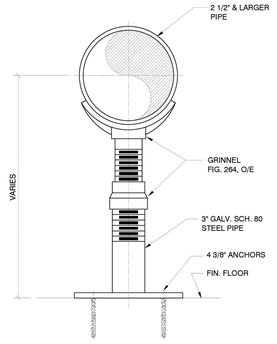
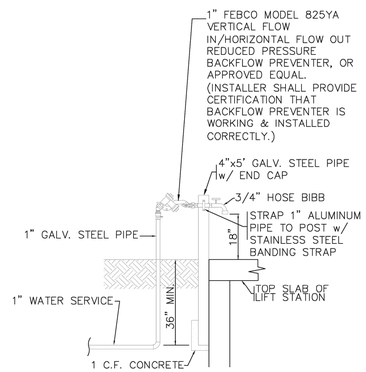




BASE TYPE
PIPE SUPPORT

TONGUE AND GROOVE JOINT
TYPICAL DETAIL

PUMP DATA			
WETWELL INSIDE DIA.	8'		
(2) FLYGT	SUBMERSIBLE PUMPS		
MODEL NUMBER	3127 SH 3~ ADAPTIVE 249		
IMPELLER	146 MM	R.P.M.	2505
PUMP SIZE	28 3/8" x 13 7/16"	HORSE POWER	11
G.P.M.	101.72	T.D.H.	110.80'
ELECTRICAL VOLTAGE	230		
ELECTRICAL PHASE	3 PHASE 26 AMPS		



HOSE BIBB

NOTES:

1. PUMPS: SHALL BE HYDROMATIC SUBMERSIBLE SOLIDS HANDLING PUMPS. PUMPS SHALL HAVE 4" STAINLESS STEEL GUIDE RAILS PER PUMP AND A BPI FRONT DUPLEX SYSTEM
2. LEVEL CONTROLS: SHALL BE IN ACCORDANCE WITH HOWEY IN THE HILL'S CONSTRUCTION SPECIFICATION MANUAL.
3. WET WELL ACCESS COVER: SHALL HAVE CLEAR OPENING OF 36"x60" AS MANUFAURED BY U.S.F.FABRICATION INC. PRODUCTS OR APPROVED EQUAL. ACCESS FRAME AND COVER SHALL HAVE A 1/4" THICK ONE-PIECE, MILL FINISH, EXTRUDED ALUMINUM FRAME, INCORPORATING A CONTINUOUS CONCRETE ANCHOR. DOOR PANEL(S) SHALL BE 1/4" ALUMINUM DIAMOND PLATE, REINFORCED TO WITHSTAND A LIVE LOAD OF 300 psf. DOOR(S) SHALL OPEN TO 90° AND AUTOMATICALLY LOCK WITH STAINLESS STEEL HOLD OPEN ARMS WITH ALUMINUM RELEASE HANDLES. DOOR(S) SHALL CLOSE FLUSH WITH THE FRAME. UNIT SHALL LOCK WITH A NONCORROSIVE LOCKING BAR. FRAME SHALL SUPPORT GUIDE RAILS AND CABLE HOLDER FOR ELECTRICAL WIRING. ALL ACCESS FRAME, COVER, AND HARDWARE SHALL BE CONSTRUCTED OF STAINLESS STEEL. ALL SURFACES IN CONTACT WITH CONCRETE SHALL HAVE A SHOP COAT OF ZINC CHROMATIC PRIMER APPROVED. ALKALI RESISTANT PAINT OR APPROVED PROTECTIVE COATING. DOUBLE DOOR ACCESS COVERS SHALL HAVE REMOVABLE CENTER BAR SUPPORT. COVER MUST BE COMPATIBLE WITH PUMP. PROVIDE WET WELL HATCH OPENING WITH PROTECTIVE GRATING PANEL. ELECTRICAL SERVICE ENTRANCE: PROVIDE METER SOCKET AND MAIN DISCONNECT MEETING
4. APPLICABLE ELECTRIC CODES AND REQUIREMENTS OF POWER COMPANY. LIGHTNING AND VOLTAGE SURGE PROTECTION TO BE PROVIDED.**COST FOR THE ELECTRICAL SERVICE AND COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. STEEL PLACED IN BOTTOM SLAB IS TO BE IDENTICAL TO THE TOP SLAB EXCEPT THAT DIAGONAL BARS AND OPENINGS ARE ELIMINATED. STEEL IS CONTINUOUS AND SLAB IS SOLID.
6. CONTRACTOR TO CONFIRM SERVICE ARRANGEMENTS WITH POWER COMPANY BEFORE COMMENCING WORK. CONTRACTOR TO RUN UNDERGROUND WIRING TO NEAREST TRANSFORMER OR HAND HOLE.
7. ALL FASTENERS ON FLANGES AND ETC. INSIDE WET WELL WILL BE 316 STAINLESS STEEL
8. DIMENSIONS BETWEEN CENTERLINE OF PIPES ARE STANDARD FOR PIPE SIZES SPECIFIED.
9. SHOP DRAWINGS OF ENTIRE INSTALLATION MUST BE APPROVED BY ENGINEER & CITY PRIOR TO PLACEMENT OF ORDER.
10. ALL EXPOSED AND EMBEDDED CONDUITS TO BE SCHEDULE 80 PVC.
11. ALL EXPOSED METAL SHALL BE PAINTED WITH TWO (2) COATS OF EXTERIOR BLACK ENAMEL PAINT.
12. ALL EXTERNAL PIPING SHALL BE DUCTILE IRON CLASS 50 (FLANGED JOINT FOR EXPOSED PIPE & MECHANICAL JOINT FOR BURIED PIPE). ALL INTERNAL WET WELL PIPING FROM THE PUMP DISCHARGE ELBOW TO THE H.D.P.E. TO D.I.P. COUPLING SHALL BE MINIMUM SDR-11 HDPE.
13. PLUG VALVES SHALL BE SERIES 100, AS MANUFAURED BY DEZURIK CORP., CLOW OR APPROVED EQUAL. VALVES SHALL BE CONSTRUCTED WITH RESILIENT FACED PLUGS. VALVES SHALL HAVE A 2" OPERATION NUT. ONE(1) 5' LONG VALVE WRENCH SHALL BE PROVIDED TO HOWEY IN THE HILLS.
14. CHECK VALVES SHALL BE MUELLER#2600-6-02, AMERICAN-DARLING #52SC, OR KENNEDY OR M&H EQUIVALENTS WITH OUTSIDE LEVER AND WEIGHT.
15. PRESSURE GAUGES SHALL BE STAINLESS STEEL WITH STAINLESS STEEL DIAPHRAM, LIQUID FILLED, 4-1/2" DIAMETER DIAL WITH 0-100 psi RANGE. GAUGES SHALL BE AS MANUFAURED BY WIKA, LOWER MOUNT, TYPE 233.30 AND DIAPHRAGMS SHALL BE AS MANUFACTURED BY HYETT, MODEL 43MOR-01 OR APPROVED EQUALS.
16. PADLOCKS FOR ACCESS COVERS AND CONTROL PANEL SHALL BE MASTER NO. 4 BRASS PADLOCK, KEYED ALIKE, FURNISH TWO(2) KEYS PER LOCK. BOLTS IN LOCKING DEVICE SHALL BE ST. STEEL.
17. WET WELL TO BE H.D.P.E. LINED WITH AN AGRU SURE GRIP LINER OR APPROVED EQUAL, WITH A MINIMUM THICKNESS OF 2 MM, MECHANICALLY ANCHORED TO THE CONCRETE.ALL JOINTS SHALL BE EXTRUSION WELDED BY CERTIFIED WELDERS.
18. SOD ALL AREAS DISTURBED BY CONSTRUCTION.
19. BACKFILL AROUND WETWELL IN 12"LIFTS COMPACTING TO A MINIMUM OF 95%%.
20. ALL LOCATIONS WHERE PIPES ENTER OF LEAVE THE WETWELL SHALL BE MADE WATERTIGHT WITH LINK SEAL CLOSURES SEALED FOR THE PROPER SEALING RANGE.
21. INSTALL PUMP BASE ELBOWS, GUIDE RAILS AND DISCHARGE PIPING PLUMB, LEVEL AND SQUARE.
22. INSTALL BENCH FOR PUMP BASE ELL IF NECESSARY, PER MANUFACTURER'S APPROVED SHOP DRAWINGS.
23. COAT ALL METALS THAT ARE NOT STAINLESS STEEL AND ARE LOCATED IN THE WETWELL WITH 10 MILS (DRY FILM THICKNESS) OF BLACK, HIGH GLOSS EPOXY, (TNEMEC SERIES 69 HI-BUILD EPOXYLINE II OR AN EQUIVALENT PRODUCT). COATING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SHALL NOT BE IMMERSED UNTIL FULL CURE IS ACHIEVED.
24. COAT ALL ALUMINUM SURFACE IN CONTACT WITH CONCRETE WITH BITUMINOUS COATING PRIOR TO INSTALLATION.
25. PUMP BASE ELBOWS, PUMP ANCHOR BOLTS, UPPER AND INTERMEDIATE GUIDE RAIL BRACKETS, GUIDE RAILS, CABLE HANGER, PUMP LIFING CABLES, CONTROL PANEL AND FLOAT SWITCHES TO BE APPROVED BY PUMP SUPPLIER.
26. INSTALL INTERMEDIATE GUIDE RAIL BRACKETS AS REQUIRED BY PUMP MANUFACTURER OR, AT MINIMUM, WHEN GUIDE RAIL RAILS EXCEED 20'-0" IN LENGTH.
27. DUCTILE IRON PIPE SHALL COMPLY WITH AWWA C115 AND SHALL HAVE A PROTEO 401 INTERIOR LINING.
28. DUCTILE IRON FITTINGS SHALL COMPLY WITH AWWA C110 OR C153 WITH AN AWWA C116 OR PROTEO 401 INTERIOR LINING.
29. ORIENTATION OF PUMPS AND ACCESS HATCH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR PUMPS FURNISHED.
30. BASE AND FIRST RISER UNIT OF WETWELL TO BE CAST MONOLITHIC.
31. PAINT EXTERIOR PIPE, VALVES AND FITTINGS WITH AN ALIPHATIC, ACRYLIC POLYURETHANE SYSTEM, COLOR SAFETY GREEN, TNEMEC SERIES 74 OR AN EQUIVALENT PRODUCT. COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
32. PROVIDE 1-INCH WATER SERVICE, REDUCED PRESSURE BACKFLOW PREVENTER AND HOSE BIBB. FIELD TESTING: THE CONTRACTOR SHALL FURNISH THE SERVICES OF THE SYSTEM SUPPLIER'S
33. SERVICEMAN, ALL SPECIAL TOOLS, CALIBRATION EQUIPMENT, AND LABOR TO PERFORM THE TESTS. CERTIFIED COPIES OF THE TESTS SHALL BE FURNISHED IN DUPLICATE TO THE TOWN PRIOR TO FINAL APPROVAL.
34. CONTRACTOR AND/OR MANUFACTURER TO PROVIDE ELECTRICAL SCHEMATIC AND SHOP DRAWINGS TO THE TOWN FOR APPROVAL PRIOR TO PLACEMENT OF ORDER.
35. CONTROL PANEL WITH AUTO TRANSFER SWITCH, SCADA SYSTEM, BYPASS PUMP, & LIFT STATION SHOP DRAWINGS TO BE SUBMITTED TO TOWN FOR APPROVAL PRIOR TO PLACEMENT OF ORDER.
36. CONTRACTOR TO COORDINATE BYPASS PUMP SIZE & TYPE AND SUBMIT TO THE TOWN PRIOR TO PLACEMENT OF ORDER.

DATE: AUG 2025

DETAIL WW-12

Howey-in-the-Hills
Standard Details

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

PUMP STATION #2
DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	NA
Sheet	15B

Printed: Sep 18, 2025 - 12:46pm Printed By: derek.green

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40'

87.2 87.4

TELEMETRY ANTENNA AND RTU PANEL

6" OF 3/4" BEDDING ROCK WITH POLY- ETHYLENE FILM LINER UNDER ROCK (ALL LIFT STATION AREA NOT IN CONCRETE.

CONTROL PANEL

GROUT FLUSH AND COAT W/ COAL-TAR EPOXY BOTH ENDS

3-2" MIN. SCH 80 PVC CONDUIT FOR PUMP CONTROLS, POWER AND FLOAT CONTROLS

PS# 3, (SEE DETAIL)
STA. 24+81.77, 58' R
TOP EL. = 87.55
INV. IN = 73.26 E

28'

87.60 87.60

HATCH HINGE SIDE

8' ø I.D. WET WELL

8" INFLOW SEWER

4" VENT WITH CAP

6" CHECK VALVE (TYP.)

6" PLUG VALVE (TYP.)

SAN. MH

MH# 138, TYPE "A"
STA. 24+92.27, 53.50' R
TOP EL. = 87.50
INV. IN = 73.40 N
INV. OUT = 73.30 W

6"x4" REDUCER

4" PLUG VALVE

EMERGENCY BYPASS PUMP

40'

EMERGENCY PUMP HOOKUP 4" CAMLOCK QUICK DISCONNECT MALE W/ FEMALE CAP

6" CROSS

SEWAGE AIR RELEASE VALVE

M.J. DIP (BURIED)
F.J. DIP (EXPOSED)

4" ø STAINLESS STEEL PRESSURE GAUGE (OIL FILLED w/ DIAPHRAGM ISOLATED AND PETCOCK VALVE (TYP.)

3/4" HOSE BIB W/ 1" RPZ BACKFLOW PREVENTER

LIGHT POLE W/ DUSK TO DAWN LED LIGHT

87.40 87.40

6" PLUG VALVE W/ ADJUSTABLE VALVE BOX

PROPOSED CONCRETE 6" THICK, 3000 PSI W/ 6x6-W1.4xW1.4 W.W.F.

6" PVC FORCEMAIN

6' CHAIN LINK FENCE VINYL COATED (BLACK OR GREEN)

86.8 86.9

2" REDUCED PRESSURE BACKFLOW PREVENTER W/ S.S. CAMLOCK FITTING

2" WATER METER

2" POLY WATER LINE

10' WIDE ACCESS DRIVE

8' DOUBLE SWING GATES (16' WIDE ACCESS)

PROPOSED 4" FORCEMAIN

WS

ROAD DD

25

5'

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10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
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No.	Date	Revision	By
A			
A			
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PUMP STATION #3 SITE PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Designed: JEW	Drawn: DCG
Checked: JEW	O.C.: RCW
Date: APR 2025	
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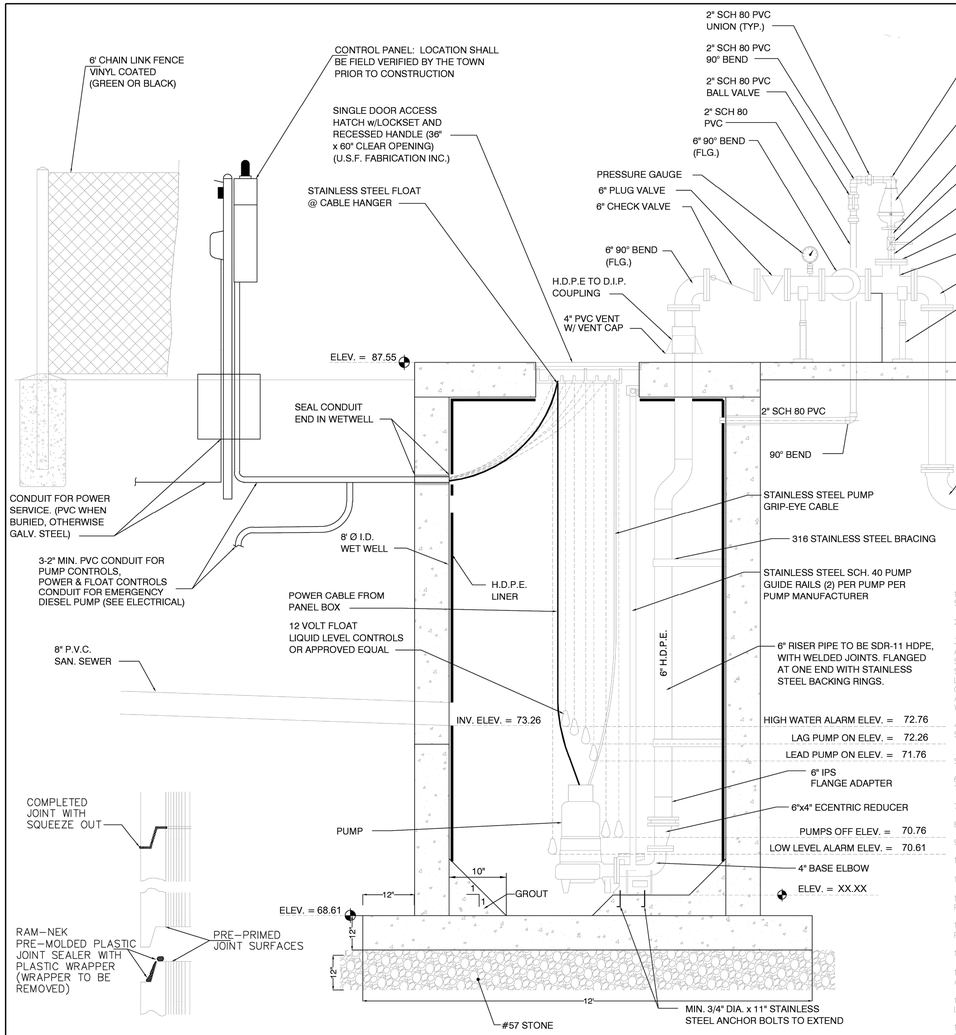
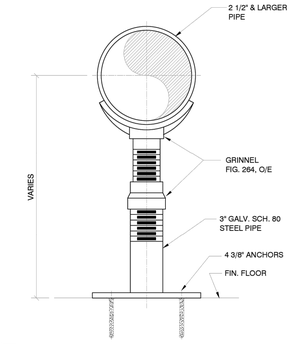
Sheet 16A	

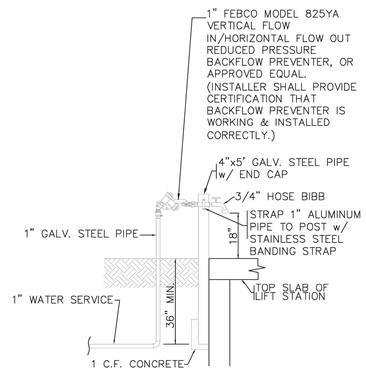




BASE TYPE
PIPE SUPPORT

TONGUE AND GROOVE JOINT
TYPICAL DETAIL

PUMP DATA			
WETWELL INSIDE DIA.	8'		
(2) FLYGT	SUBMERSIBLE PUMPS		
MODEL NUMBER	NP 310MT 3~ ADAPTIVE 465		
IMPELLER	152 MM	R.P.M.	1745
PUMP SIZE	26 1/4" x 14 3/4"	HORSE POWER	5
G.P.M.	124.45	T.D.H.	31.83'
ELECTRICAL VOLTAGE	230		
ELECTRICAL PHASE	3 PHASE 13 AMPS		



HOSE BIBB

NOTES:

1. PUMPS: SHALL BE HYDROMATIC SUBMERSIBLE SOLIDS HANDLING PUMPS. PUMPS SHALL HAVE 4" STAINLESS STEEL GUIDE RAILS PER PUMP AND A BPI FRONT DUPLEX SYSTEM
2. LEVEL CONTROLS: SHALL BE IN ACCORDANCE WITH HOWEY IN THE HILL'S CONSTRUCTION SPECIFICATION MANUAL.
3. WET WELL ACCESS COVER: SHALL HAVE CLEAR OPENING OF 36"x60" AS MANUFAURED BY U.S.F.FABRICATION INC. PRODUCTS OR APPROVED EQUAL. ACCESS FRAME AND COVER SHALL HAVE A 1/4" THICK ONE-PIECE, MILL FINISH, EXTRUDED ALUMINUM FRAME, INCORPORATING A CONTINUOUS CONCRETE ANCHOR. DOOR PANEL(S) SHALL BE 1/4" ALUMINUM DIAMOND PLATE, REINFORCED TO WITHSTAND A LIVE LOAD OF 300 psf. DOOR(S) SHALL OPEN TO 90° AND AUTOMATICALLY LOCK WITH STAINLESS STEEL HOLD OPEN ARMS WITH ALUMINUM RELEASE HANDLES. DOOR(S) SHALL CLOSE FLUSH WITH THE FRAME. UNIT SHALL LOCK WITH A NONCORROSIVE LOCKING BAR. FRAME SHALL SUPPORT GUIDE RAILS AND CABLE HOLDER FOR ELECTRICAL WIRING. ALL ACCESS FRAME, COVER, AND HARDWARE SHALL BE CONSTRUCTED OF STAINLESS STEEL. ALL SURFACES IN CONTACT WITH CONCRETE SHALL HAVE A SHOP COAT OF ZINC CHROMATIC PRIMER APPROVED. ALKALI RESISTANT PAINT OR APPROVED PROTECTIVE COATING. DOUBLE DOOR ACCESS COVERS SHALL HAVE REMOVABLE CENTER BAR SUPPORT. COVER MUST BE COMPATIBLE WITH PUMP. PROVIDE WET WELL HATCH OPENING WITH PROTECTIVE GRATING PANEL. ELECTRICAL SERVICE ENTRANCE: PROVIDE METER SOCKET AND MAIN DISCONNECT MEETING
4. APPLICABLE ELECTRIC CODES AND REQUIREMENTS OF POWER COMPANY. LIGHTNING AND VOLTAGE SURGE PROTECTION TO BE PROVIDED.**COST FOR THE ELECTRICAL SERVICE AND COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. STEEL PLACED IN BOTTOM SLAB IS TO BE IDENTICAL TO THE TOP SLAB EXCEPT THAT DIAGONAL BARS AND OPENINGS ARE ELIMINATED. STEEL IS CONTINUOUS AND SLAB IS SOLID.
6. CONTRACTOR TO CONFIRM SERVICE ARRANGEMENTS WITH POWER COMPANY BEFORE COMMENCING WORK. CONTRACTOR TO RUN UNDERGROUND WIRING TO NEAREST TRANSFORMER OR HAND HOLE.
7. ALL FASTENERS ON FLANGES AND ETC. INSIDE WET WELL WILL BE 316 STAINLESS STEEL
8. DIMENSIONS BETWEEN CENTERLINE OF PIPES ARE STANDARD FOR PIPE SIZES SPECIFIED.
9. SHOP DRAWINGS OF ENTIRE INSTALLATION MUST BE APPROVED BY ENGINEER & CITY PRIOR TO PLACEMENT OF ORDER.
10. ALL EXPOSED AND EMBEDDED CONDUITS TO BE SCHEDULE 80 PVC.
11. ALL EXPOSED METAL SHALL BE PAINTED WITH TWO (2) COATS OF EXTERIOR BLACK ENAMEL PAINT.
12. ALL EXTERNAL PIPING SHALL BE DUCTILE IRON CLASS 50 (FLANGED JOINT FOR EXPOSED PIPE & MECHANICAL JOINT FOR BURIED PIPE). ALL INTERNAL WET WELL PIPING FROM THE PUMP DISCHARGE ELBOW TO THE H.D.P.E. TO D.I.P. COUPLING SHALL BE MINIMUM SDR-11 HDPE.
13. PLUG VALVES SHALL BE SERIES 100, AS MANUFAURED BY DEZURIK CORP., CLOW OR APPROVED EQUAL. VALVES SHALL BE CONSTRUCTED WITH RESILIENT FACED PLUGS. VALVES SHALL HAVE A 2" OPERATION NUT. ONE(1) 5' LONG VALVE WRENCH SHALL BE PROVIDED TO HOWEY IN THE HILLS.
14. CHECK VALVES SHALL BE MUELLER#2600-6-02, AMERICAN-DARLING #52SC, OR KENNEDY OR M&H EQUIVALENTS WITH OUTSIDE LEVER AND WEIGHT.
15. PRESSURE GAUGES SHALL BE STAINLESS STEEL WITH STAINLESS STEEL DIAPHRAM, LIQUID FILLED, 4-1/2" DIAMETER DIAL WITH 0-100 psi RANGE. GAUGES SHALL BE AS MANUFAURED BY WIKA, LOWER MOUNT, TYPE 233.30 AND DIAPHRAGMS SHALL BE AS MANUFACTURED BY HYETT, MODEL 43MOR-01 OR APPROVED EQUALS.
16. PADLOCKS FOR ACCESS COVERS AND CONTROL PANEL SHALL BE MASTER NO. 4 BRASS PADLOCK, KEYED ALIKE, FURNISH TWO(2) KEYS PER LOCK. BOLTS IN LOCKING DEVICE SHALL BE ST. STEEL.
17. WET WELL TO BE H.D.P.E. LINED WITH AN AGRU SURE GRIP LINER OR APPROVED EQUAL, WITH A MINIMUM THICKNESS OF 2 MM, MECHANICALLY ANCHORED TO THE CONCRETE.ALL JOINTS SHALL BE EXTRUSION WELDED BY CERTIFIED WELDERS.
18. SOD ALL AREAS DISTURBED BY CONSTRUCTION.
19. BACKFILL AROUND WETWELL IN 12"LIFTS COMPACTING TO A MINIMUM OF 95%%.
20. ALL LOCATIONS WHERE PIPES ENTER OF LEAVE THE WETWELL SHALL BE MADE WATERTIGHT WITH LINK SEAL CLOSURES SEALED FOR THE PROPER SEALING RANGE.
21. INSTALL PUMP BASE ELBOWS, GUIDE RAILS AND DISCHARGE PIPING PLUMB, LEVEL AND SQUARE.
22. INSTALL BENCH FOR PUMP BASE ELL IF NECESSARY, PER MANUFACTURER'S APPROVED SHOP DRAWINGS.
23. COAT ALL METALS THAT ARE NOT STAINLESS STEEL AND ARE LOCATED IN THE WETWELL WITH 10 MILS (DRY FILM THICKNESS) OF BLACK, HIGH GLOSS EPOXY, (TNEMEC SERIES 69 HI-BUILD EPOXYLINE II OR AN EQUIVALENT PRODUCT). COATING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SHALL NOT BE IMMERSED UNTIL FULL CURE IS ACHIEVED.
24. COAT ALL ALUMINUM SURFACE IN CONTACT WITH CONCRETE WITH BITUMINOUS COATING PRIOR TO INSTALLATION.
25. PUMP BASE ELBOWS, PUMP ANCHOR BOLTS, UPPER AND INTERMEDIATE GUIDE RAIL BRACKETS, GUIDE RAILS, CABLE HANGER, PUMP LIFING CABLES, CONTROL PANEL AND FLOAT SWITCHES TO BE APPROVED BY PUMP SUPPLIER.
26. INSTALL INTERMEDIATE GUIDE RAIL BRACKETS AS REQUIRED BY PUMP MANUFACTURER OR, AT MINIMUM, WHEN GUIDE RAIL RAILS EXCEED 20'-0" IN LENGTH.
27. DUCTILE IRON PIPE SHALL COMPLY WITH AWWA C115 AND SHALL HAVE A PROTEO 401 INTERIOR LINING.
28. DUCTILE IRON FITTINGS SHALL COMPLY WITH AWWA C110 OR C153 WITH AN AWWA C116 OR PROTEO 401 INTERIOR LINING.
29. ORIENTATION OF PUMPS AND ACCESS HATCH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR PUMPS FURNISHED.
30. BASE AND FIRST RISER UNIT OF WETWELL TO BE CAST MONOLITHIC.
31. PAINT EXTERIOR PIPE, VALVES AND FITTINGS WITH AN ALIPHATIC, ACRYLIC POLYURETHANE SYSTEM, COLOR SAFETY GREEN, TNEMEC SERIES 74 OR AN EQUIVALENT PRODUCT. COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS.
32. PROVIDE 1-INCH WATER SERVICE, REDUCED PRESSURE BACKFLOW PREVENTER AND HOSE BIBB. FIELD TESTING: THE CONTRACTOR SHALL FURNISH THE SERVICES OF THE SYSTEM SUPPLIER'S
33. SERVICEMAN, ALL SPECIAL TOOLS, CALIBRATION EQUIPMENT, AND LABOR TO PERFORM THE TESTS. CERTIFIED COPIES OF THE TESTS SHALL BE FURNISHED IN DUPLICATE TO THE TOWN PRIOR TO FINAL APPROVAL.
34. CONTRACTOR AND/OR MANUFACTURER TO PROVIDE ELECTRICAL SCHEMATIC AND SHOP DRAWINGS TO THE TOWN FOR APPROVAL PRIOR TO PLACEMENT OF ORDER.
35. CONTROL PANEL WITH AUTO TRANSFER SWITCH, SCADA SYSTEM, BYPASS PUMP, & LIFT STATION SHOP DRAWINGS TO BE SUBMITTED TO TOWN FOR APPROVAL PRIOR TO PLACEMENT OF ORDER.
36. CONTRACTOR TO COORDINATE BYPASS PUMP SIZE & TYPE AND SUBMIT TO THE TOWN PRIOR TO PLACEMENT OF ORDER.

DATE: AUG 2025

DETAIL WW-12

Howey-in-the-Hills

Standard Details

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE, SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3068 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
1			
2			
3			
4			
5			

PUMP STATION #3
DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	NA
Sheet	16B

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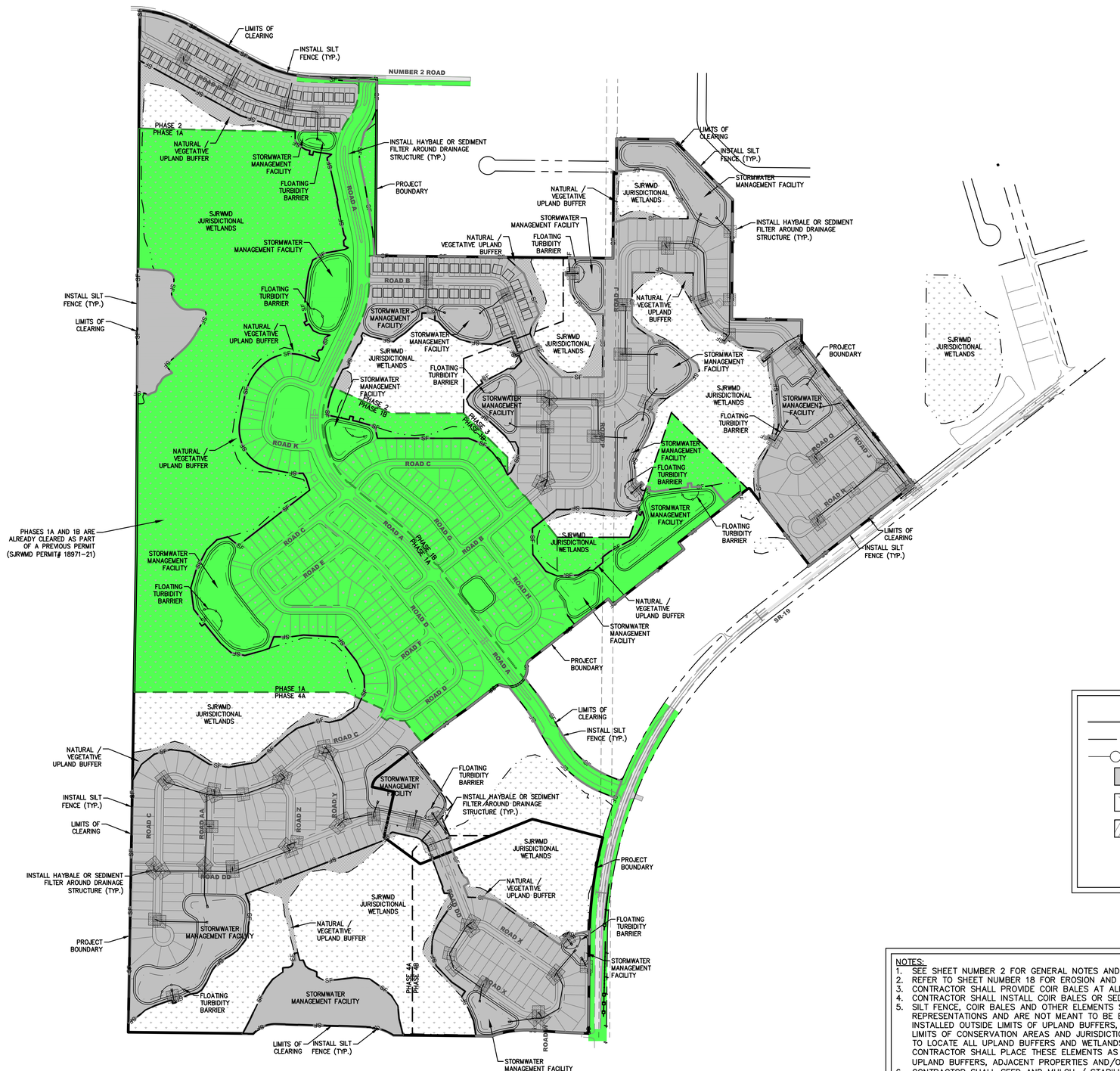

NOTES:
1. SEE SHEET NUMBER 2 FOR GENERAL NOTES AND LEGEND.
2. REFER TO SHEET NUMBER 18 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
3. CONTRACTOR SHALL PROVIDE COIR BALES AT ALL DEWATERING SUMPS.
4. CONTRACTOR SHALL INSTALL COIR BALES OR SEDIMENT FILTER AROUND EACH INLET.
5. SILT FENCE, COIR BALES AND OTHER ELEMENTS SHOWN HEREON ARE GRAPHICAL REPRESENTATIONS AND ARE NOT MEANT TO BE EXACT. GENERALLY, THESE OBJECTS ARE INSTALLED OUTSIDE LIMITS OF UPLAND BUFFERS, WITHIN PROJECT BOUNDARY AND OUTSIDE LIMITS OF CONSERVATION AREAS AND JURISDICTIONAL WETLANDS. IT IS UP TO THE CONTRACTOR TO LOCATE ALL UPLAND BUFFERS AND WETLANDS PRIOR TO CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PLACE THESE ELEMENTS AS CLOSE AS PRACTICAL WITHOUT DISTURBING UPLAND BUFFERS, ADJACENT PROPERTIES AND/OR WETLAND / CONSERVATION AREAS.
6. CONTRACTOR SHALL SEED AND MULCH / STABILIZE ALL DISTURBED AREAS PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

CW PRIME ENGINEERING
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A-			
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SEDIMENT AND EROSION CONTROL PLAN

HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 300'

Sheet 17

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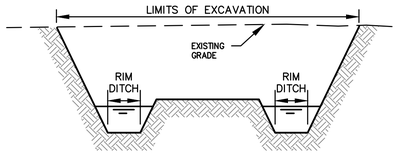
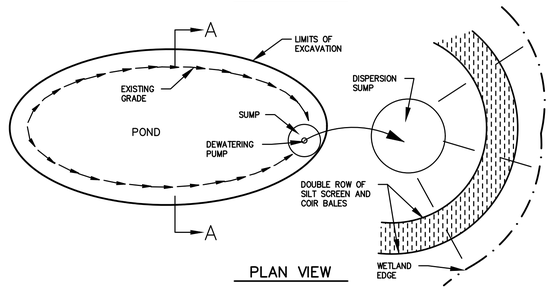
SEDIMENT AND EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS REQUIRED, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE COIR SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. COIR BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE COIR BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
20. STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS REQUIRED.
21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.P.) CHAPTER 6.
24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTURBED AREAS THROUGH COMPACTION, SILT SCREENS, COIR BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
32. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS AND MEETING THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, **XXXXXXXX** AND NPDES FINAL STABILIZATION REQUIREMENTS.
34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.
35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT)



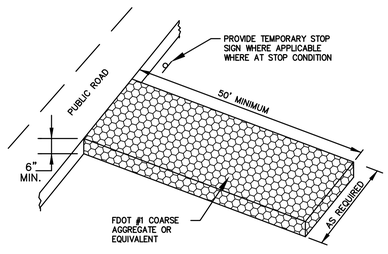
SECTION A–A



PLAN VIEW

TEMPORARY DEWATERING DETAIL

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

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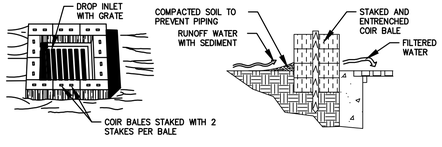
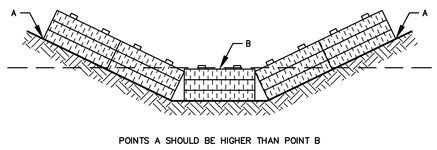


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

COIR BALE DROP INLET SEDIMENT FILTER

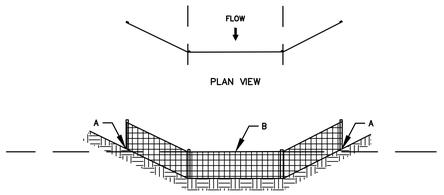
N.T.S.



POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF COIR BALE IN A DRAINAGE WAY

N.T.S.



POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF A FILTER BARRIER IN DRAINAGE WAY

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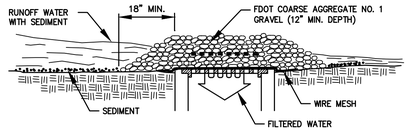
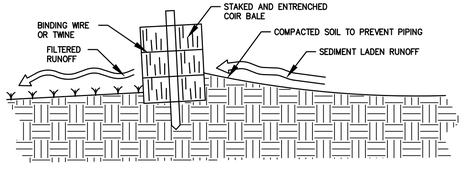


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

N.T.S.



CROSS-SECTION OF A PROPERLY INSTALLED COIR BALE

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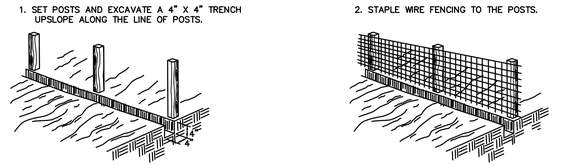

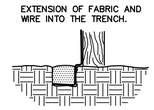

CONSTRUCTION OF SILT FENCE

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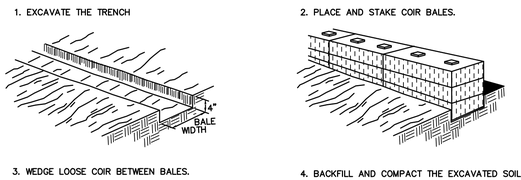
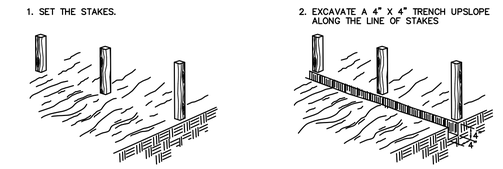


CONSTRUCTION OF A COIR BALE BARRIER

N.T.S.



CONSTRUCTION OF A FILTER BARRIER

N.T.S.

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No.	Date	Revision	By
1			
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SEDIMENT AND EROSION CONTROL DETAILS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Designed:	JEW
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OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
HILLSIDE GROVE PHASES 2-4
HOWEY IN THE HILLS, FLORIDA

OWNER/DEVELOPER NAME AND ADDRESS:

MERITAGE HOMES
5337 MILLENIA LAKES BLVD, STE. 235
ORLANDO, FL 32839
(904)993-2857

DESCRIPTION:

THIS PROJECT WILL CONSIST OF:

CONSTRUCTION OF A SINGLE FAMILY DEVELOPMENT. CONSTRUCTION WILL CONSIST OF INSTALLATION OF UNDERGROUND UTILITIES, CLEARING, GRADING, STORMWATER MANAGEMENT FACILITIES ROADWAYS, AND ASSOCIATED CONSTRUCTION.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR THE SEDIMENTATION POND, STORM SEWER, UTILITIES, AND BUILDING FOUNDATION; CONSTRUCTION OF CURB AND GUTTER, ROAD, AND PARKING AREAS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

GENERALIZED RUNOFF CURVE NUMBERS (REFER TO DRAINAGE CALCULATIONS FOR ACTUAL CURVE NUMBER FOR EACH BASIN)

1. PRE-CONSTRUCTION = 63±
2. DURING CONSTRUCTION = 77±
3. POST-CONSTRUCTION = 70±

SOILS:
* SEE ATTACHED FOR SOILS DATA

SITE MAPS:
* SEE ATTACHED DWGS. 7B - 7S AND 8B - 8R FOR POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.
* SEE ATTACHED DWG. No. 17 AND 18 FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS

SITE AREA:
1. TOTAL AREA OF SITE = 187.1 AC±
2. TOTAL AREA TO BE DISTURBED = 114.7 AC±

NAME OF RECEIVING WATERS: UNNAMED CLOSED BASIN AND LAKE ILLINOIS

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DWG. No. 17 AND 18 HAVE BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

REFER TO " CONTRACTORS REQUIREMENTS" FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

D.E.P. DREDGE/FILL PERMIT #_____
C.O.E. DREDGE/FILL PERMIT #_____
S.J.R.W.M.D. M.S.S.W. PERMIT #_____

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, 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.

SIGNED: _____

TITLE: _____
CORPORATE OFFICER, GENERAL PARTNER, PROPRIETOR, EXECUTIVE OFFICER, OR RANKING ELECTED OFFICIAL

DATE:_____

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND COIR BALES AS REQUIRED
3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN
4. CONSTRUCT SEDIMENTATION BASIN
5. CONTINUE CLEARING AND GRUBBING
6. STOCK PILE TOP SOIL IF REQUIRED
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.
10. APPLY BASE TO PARKING AREAS
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING
12. COMPLETE FINAL PAVING
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETED AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED

NOTE: VERTICAL CONSTRUCTION OF THE BUILDING WILL BE TAKING PLACE DURING ALL THE SEQUENCE STEPS LISTED ABOVE

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND COIR BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH DWG. NOS. 17 AND 18 (SEDIMENT AND EROSION CONTROL PLAN AND DETAILS)

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED,TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES

1. COIR BALE BARRIER: COIR BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
   C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
   D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

CONTRACTOR'S REQUIREMENTS

7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT -LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 7 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

11. TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.

2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP IS USUALLY INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS:
   A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA.

4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS
ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS,WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING
A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

Concrete	Fertilizers	Wood
Asphalt	Petroleum Based Products	Masonry Blocks
Tar	Cleaning Solvents	Roofing Materials
Detergents	Paints	Metal Studs

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.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

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

HAZARDOUS PRODUCTS
THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE 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 ONSITE 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 AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

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.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

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

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE 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 ONSITE. EQUIPMENT AND MATERIALS WILL

INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

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

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

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/SHE WILL DESIGNATE AT LEAST ONE 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 IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
* ALL TURBIDITY CONTROL 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 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 THE 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.
* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM SHALL BE COMPLETED BY THE INSPECTOR
  THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
  THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED.
  THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE 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 WATER LINE FLUSHING
* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DEWATERING

PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-521.300(2), F.A.C.; THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR

CW PRIME
CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
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A			
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STORMWATER POLLUTION PREVENTION PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	NA
Sheet	19

Printed By: justin.williams
Printed: Aug 06, 2025 - 1:47pm
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Printed: Sep 12, 2025 - 11:17am Printed By: derek.green

P:\Projects\CW\24\24-01-0079 Hillside Groves Ph 2-4\Design\Dwgs\Plots\24-01-0079 impacts.dwg

SECONDARY WETLAND IMPACT OFFSITE	
WETLAND IMPACT	
#1	0.87 AC.
#2	0.01 AC.
TOTAL	0.88 AC.

DIRECT WETLAND IMPACT OFFSITE	
WETLAND IMPACT	
#1	0.41 AC.
#2	0.01 AC.
#3	0.20 AC.
#4	0.12 AC.
TOTAL	0.74 AC.

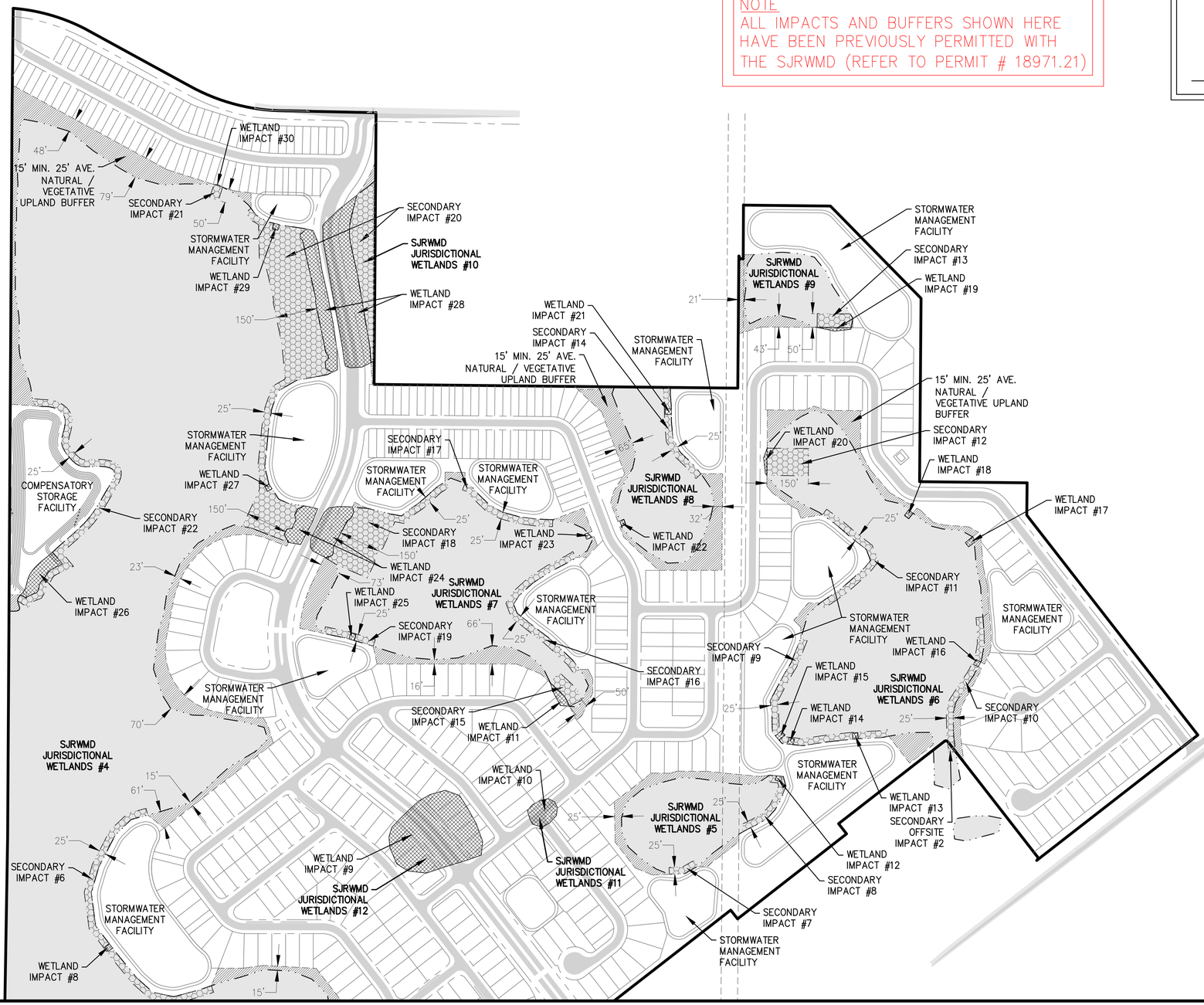
100% WETLAND IMPACT	
SJRWMD WETLAND	
#11	0.18 AC.
#12	1.66 AC.
#13	0.17 AC.
#14	0.18 AC.
#15	0.20 AC.
TOTAL	2.39 AC.

SECONDARY WETLAND IMPACT ONSITE	
WETLAND IMPACT	
#1	0.59 AC.
#2	0.03 AC.
#3	0.13 AC.
#4	0.07 AC.
#5	1.62 AC.
#6	0.60 AC.
#7	0.06 AC.
#8	0.15 AC.
#9	0.42 AC.
#10	0.28 AC.
#11	0.29 AC.
#12	0.34 AC.
#13	0.14 AC.
#14	0.20 AC.
#15	0.14 AC.
#16	0.37 AC.
#17	0.21 AC.
#18	0.97 AC.
#19	0.10 AC.
#20	3.62 AC.
#21	0.04 AC.
#22	0.67 AC.
#23	0.33 AC.
#24	0.49 AC.
TOTAL	11.86 AC.

DIRECT WETLAND IMPACT ONSITE	
WETLAND IMPACT	
#1	0.01 AC.
#2	0.09 AC.
#3	0.01 AC.
#4	0.49 AC.
#5	0.01 AC.
#6	0.18 AC.
#7	0.17 AC.
#8	0.01 AC.
#9	1.66 AC.
#10	0.18 AC.
#11	0.05 AC.
#12	0.01 AC.
#13	0.01 AC.
#14	0.01 AC.
#15	0.01 AC.
#16	0.01 AC.
#17	0.01 AC.
#18	0.01 AC.
#19	0.02 AC.
#20	0.02 AC.
#21	0.01 AC.
#22	0.01 AC.
#23	0.01 AC.
#24	0.58 AC.
#25	0.01 AC.
#26	0.20 AC.
#27	0.01 AC.
#28	1.84 AC.
#29	0.01 AC.
#30	0.01 AC.
TOTAL	5.66 AC.

WETLANDS REMAINING	
WETLAND REMAINING	
#1	6.54 AC.
#2	14.19 AC.
#3	7.85 AC.
#4	61.48 AC.
#5	3.15 AC.
#6	13.15 AC.
#7	10.06 AC.
#8	3.37 AC.
#9	1.81 AC.
#10	0.83 AC.
TOTAL	122.53 AC.

NOTE
ALL IMPACTS AND BUFFERS SHOWN HERE HAVE BEEN PREVIOUSLY PERMITTED WITH THE SJRWMD (REFER TO PERMIT # 18971.21)



LEGEND

- ST. JOHNS RIVER WATER MANAGEMENT DISTRICT JURISDICTIONAL WETLANDS
- NATURAL / VEGETATIVE UPLAND BUFFER
- WETLAND IMPACT
- SECONDARY WETLAND IMPACT
- PROJECT BOUNDARY
- JURISDICTIONAL WETLAND LINE

CW PRIME EV

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10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

WETLAND IMPACT MAP

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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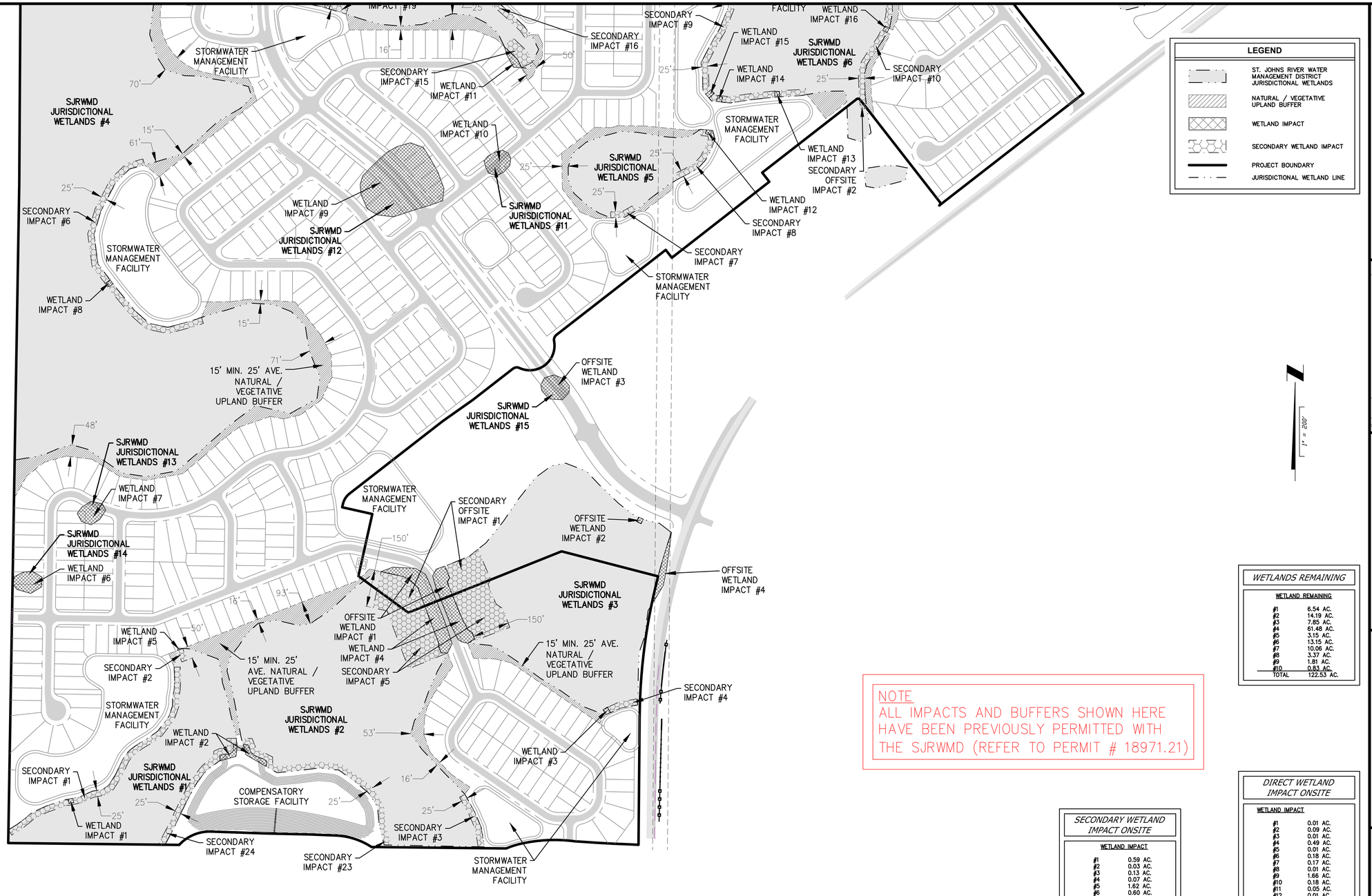
Project No.: 24-01-0079
Designed: JEW
Drawn: DCG
Checked: JEW
O.C.: RCW
Date: APR 2025
Scale: 1" = 200'

Sheet 20A



LEGEND

- ST. JOHNS RIVER WATER MANAGEMENT DISTRICT JURISDICTIONAL WETLANDS
- NATURAL / VEGETATIVE UPLAND BUFFER
- WETLAND IMPACT
- SECONDARY WETLAND IMPACT
- PROJECT BOUNDARY
- JURISDICTIONAL WETLAND LINE

NOTE
ALL IMPACTS AND BUFFERS SHOWN HERE HAVE BEEN PREVIOUSLY PERMITTED WITH THE SJRWMD (REFER TO PERMIT # 18971.21)

WETLANDS REMAINING

WETLAND	REMAINING
#1	6.54 AC.
#2	14.19 AC.
#3	7.85 AC.
#4	61.48 AC.
#5	3.15 AC.
#6	13.15 AC.
#7	10.06 AC.
#8	3.37 AC.
#9	1.81 AC.
#10	0.83 AC.
TOTAL	122.53 AC.

DIRECT WETLAND IMPACT ONSITE

WETLAND IMPACT	
#1	0.01 AC.
#2	0.09 AC.
#3	0.01 AC.
#4	0.49 AC.
#5	0.01 AC.
#6	0.18 AC.
#7	0.17 AC.
#8	0.01 AC.
#9	1.66 AC.
#10	0.18 AC.
#11	0.05 AC.
#12	0.01 AC.
#13	0.01 AC.
#14	0.01 AC.
#15	0.01 AC.
#16	0.01 AC.
#17	0.01 AC.
#18	0.01 AC.
#19	0.02 AC.
#20	0.02 AC.
#21	0.01 AC.
#22	0.01 AC.
#23	0.01 AC..
#24	0.58 AC.
#25	0.01 AC.
#26	0.20 AC.
#27	0.01 AC.
#28	1.84 AC.
#29	0.01 AC.
#30	0.01 AC.
TOTAL	5.66 AC.

SECONDARY WETLAND IMPACT ONSITE

WETLAND IMPACT	
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CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A			
A			
A			
A			
A			
A			

WETLAND IMPACT MAP

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 200'
Sheet	20B

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STORMWATER MAINTENANCE PLAN NOTES:

1. HOMEOWNERS ARE RESPONSIBLE FOR MOWING AND MAINTAINING THE POND BANKS AND MAINTENANCE EASEMENTS ARE TO BE MOWED ON A MONTHLY BASIS, OR AS NEEDED.
   a. HOMEOWNERS ARE RESPONSIBLE FOR MOWING AND MAINTAINING THE POND BANKS AND MAINTENANCE EASEMENTS THAT ARE WITHIN THEIR OWN LOT.
   b. THE HOME OWNERS ASSOCIATION (HOA) WILL BE RESPONSIBLE FOR MOWING AND MAINTAINING THE POND BANKS AND MAINTENANCE EASEMENTS THAT ARE NOT PART OF A SINGLE FAMILY LOT.
2. THE HOA IS RESPONSIBLE FOR WATER QUALITY TESTING, AQUATIC WEED CONTROL, DEBRIS REMOVAL, AND VERIFICATION THAT THE PONDS AND OUTFALL CONTROL STRUCTURES IDENTIFIED ON THIS PLAN ARE FREE OF OBSTRUCTIONS AND OPERATING AS DESIGNED.
3. STORMWATER DITCHES ARE TO BE MOWED ON A MONTHLY BASIS, OR AS NEEDED.
   a. ARE RESPONSIBLE FOR MOWING AND MAINTAINING THE DITCHES (IF ANY) THAT ARE WITHIN THEIR OWN LOT.
   b. THE HOME OWNERS ASSOCIATION (HOA) WILL BE RESPONSIBLE FOR MOWING AND MAINTAINING THE DITCHES (IF ANY) THAT ARE NOT PART OF A SINGLE FAMILY LOT.
4. STORMWATER CONVEYANCE PIPES AND STRUCTURES (CURB INLETS, YARD DRAINS, CATCH BASINS) ARE TO BE VISUALLY INSPECTED ON A QUARTERLY BASIS, OR AS NEEDED TO ENSURE THAT THE STORMWATER CONVEYANCE SYSTEM IS FREE FROM DEBRIS AND OBSTRUCTIONS.

LEGEND

SJRWMD JURISDICTIONAL WETLANDS

MERITAGE NATIVE VEGETATIVE UPLAND BUFFER

NEIGHBORHOOD PARK

Project No:	24-01-0079
Designed:	JEW
Drawn:	DCG
Reviewed:	JEW
Checked:	RCW
Date:	APR 2025
Scale:	1" = 300'
Sheet	21

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

STORMWATER MAINTENANCE PLAN

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			

Connelly & Wicker Inc.
Planning · Engineering · Landscape Architecture
10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cwieng.com
Florida Registry 3650 L.A. Number: LC26000311

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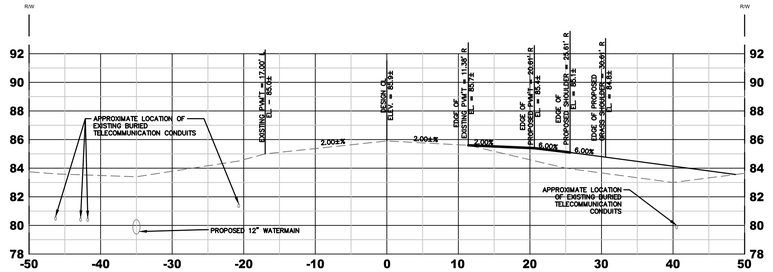

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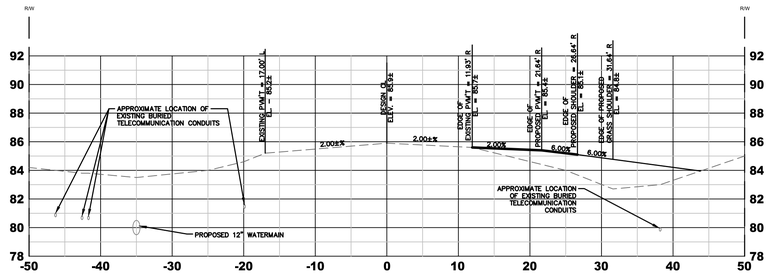

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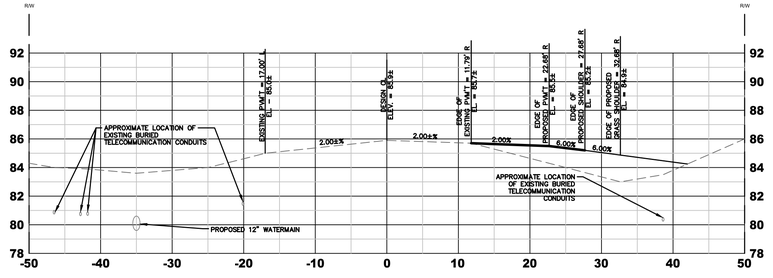

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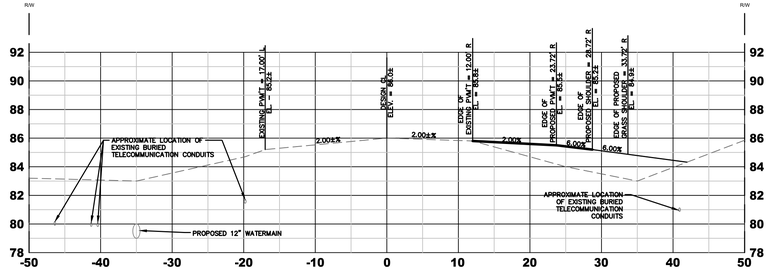

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No.	Date	Revision	By
1.			
2.			
3.			
4.			
5.			
6.			

SR-19 ROADWAY
CROSS-SECTIONS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Project No.:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	
Sheet	22A

Printed: Sep 16, 2025 - 11:18am Printed By: michael.lancellotti
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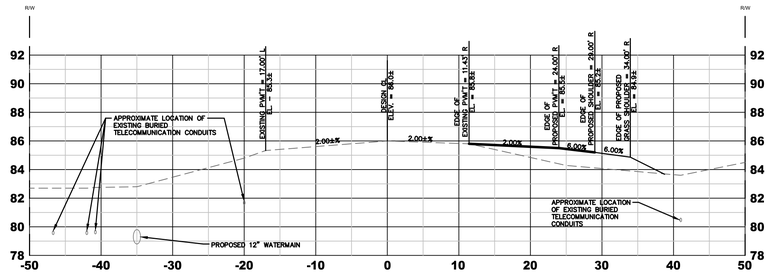

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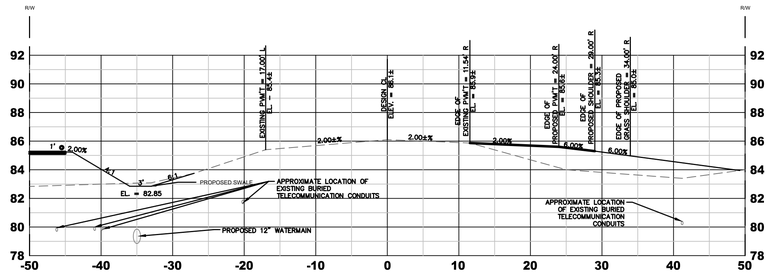

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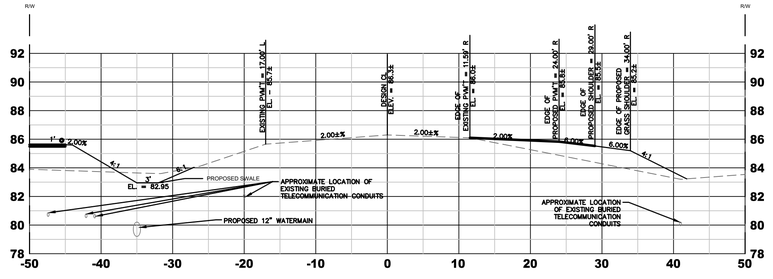

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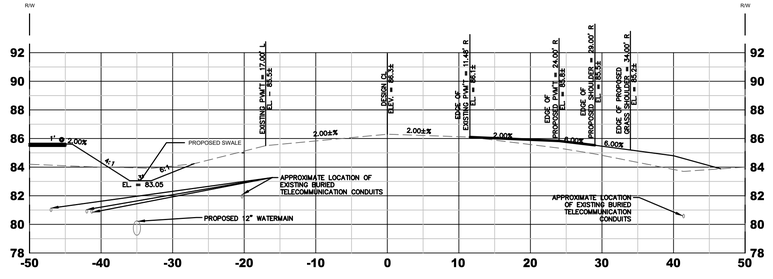

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AT STATION: 46+00.00

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PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A.			
A.			
A.			
A.			
A.			
A.			

SR-19 ROADWAY
CROSS-SECTIONS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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Date:	APR 2025
Scale:	
Sheet	22B

Printed: Sep 16, 2025 - 11:18am Printed By: michael.lancellotti
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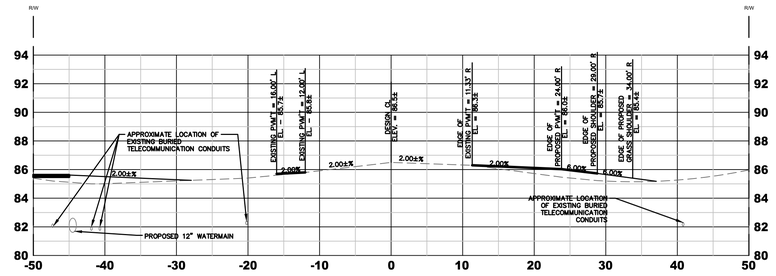

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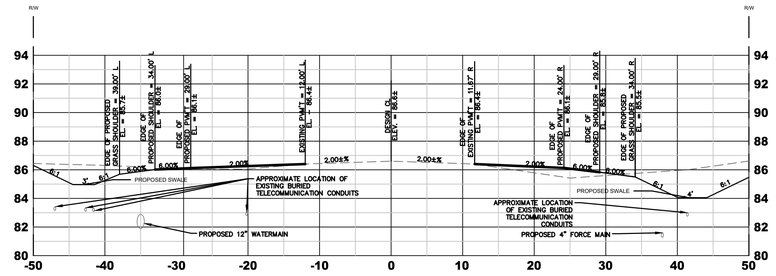

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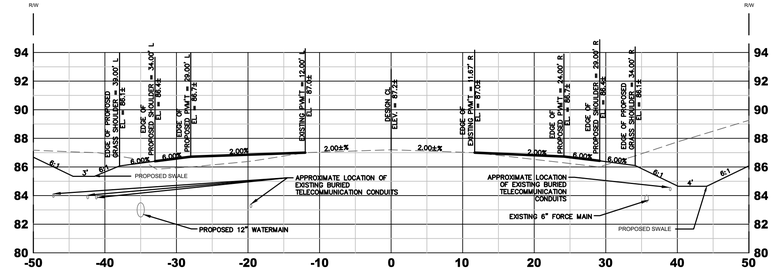

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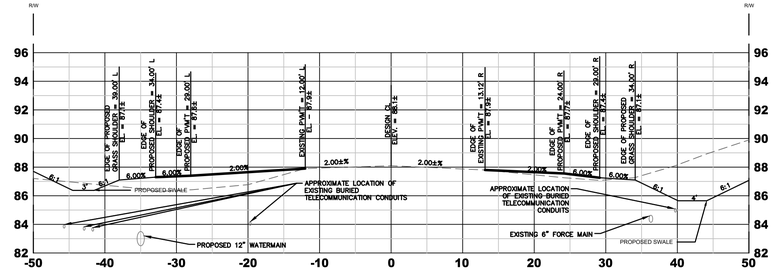
AT STATION: 49+00.00



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AT STATION: 50+00.00

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PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A1			
A2			
A3			
A4			
A5			

SR-19 ROADWAY
CROSS-SECTIONS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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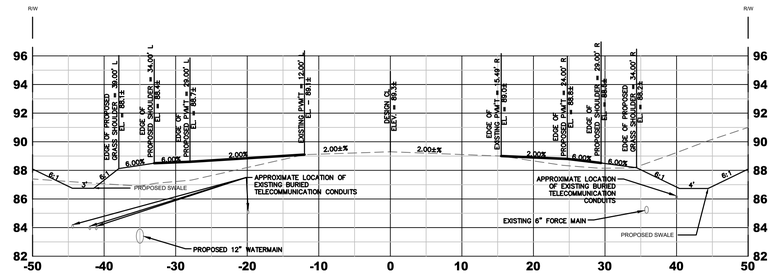

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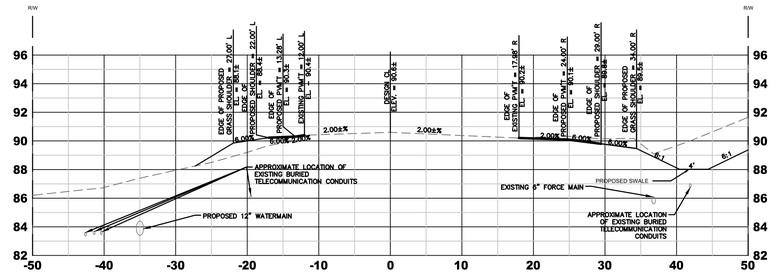

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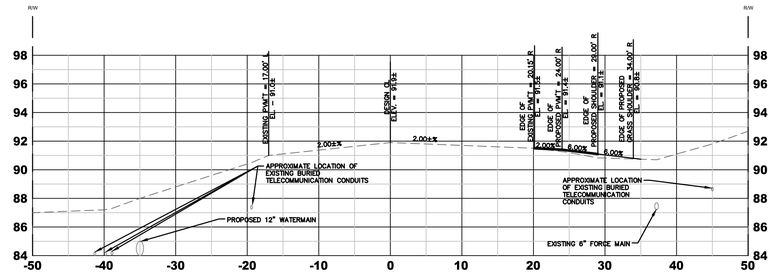

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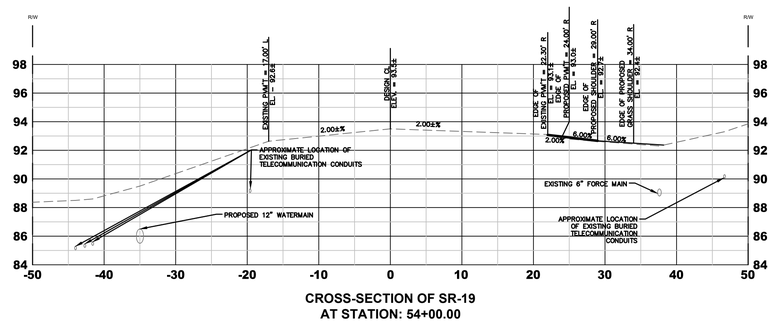

CROSS-SECTION OF SR-19
AT STATION: 54+00.00

CONNELLY & WICKER, LLC
10060 SKINNER LAKE DRIVE SUITE 500 JACKSONVILLE, FLORIDA 32246
PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A1			
A2			
A3			
A4			
A5			
A6			

SR-19 ROADWAY
CROSS-SECTIONS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No.: 24-01-0079
Designed: JEW
Drawn: DCG
Checked: JEW
O.C.: RCW
Date: APR 2025
Scale:
Sheet 22D

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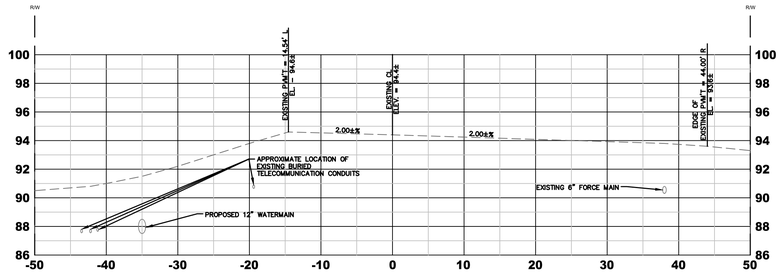

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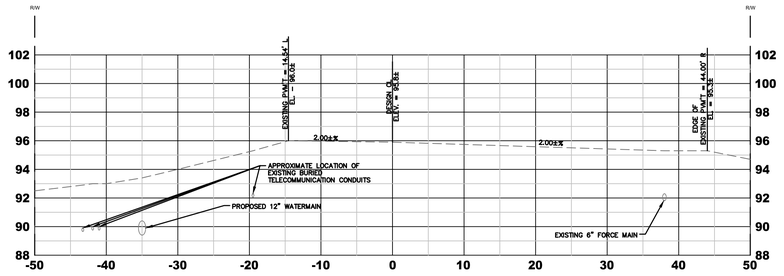

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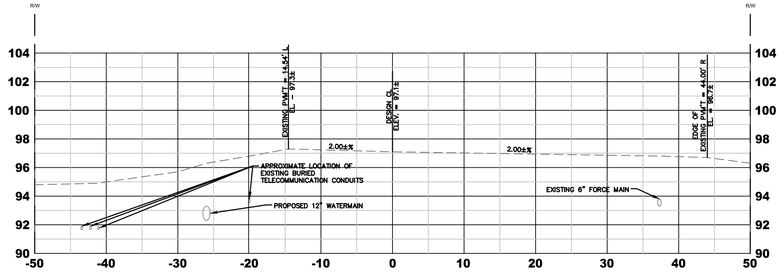
AT STATION: 56+00.00



CROSS-SECTION OF SR-19
AT STATION: 57+00.00

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PH: 904-265-3030 FAX: 904-265-3031 FLORIDA REGISTRY 3650

No.	Date	Revision	By
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-
A	-	-	-

SR-19 ROADWAY
CROSS-SECTIONS

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS

PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

Project No: 24-01-0079
Designed: JEW
Drawn: DCG
Checked: JEW
O.C.: RCW
Date: APR 2025
Scale:
Sheet 22E

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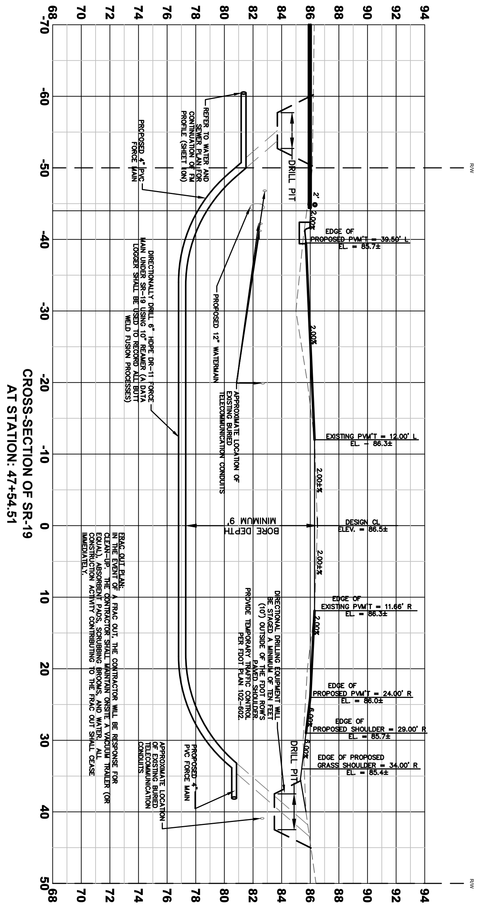

Sheet: 22F	Project No: 24-01-0079	Designed: JEW	Drawn: DCG	Checked: JEW	QC: RCW
Date: APR 2025	Scale:				

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

SR-19 ROADWAY
CROSS-SECTIONS

No.	Date	Revision	By
1			
2			
3			
4			
5			
6			
7			

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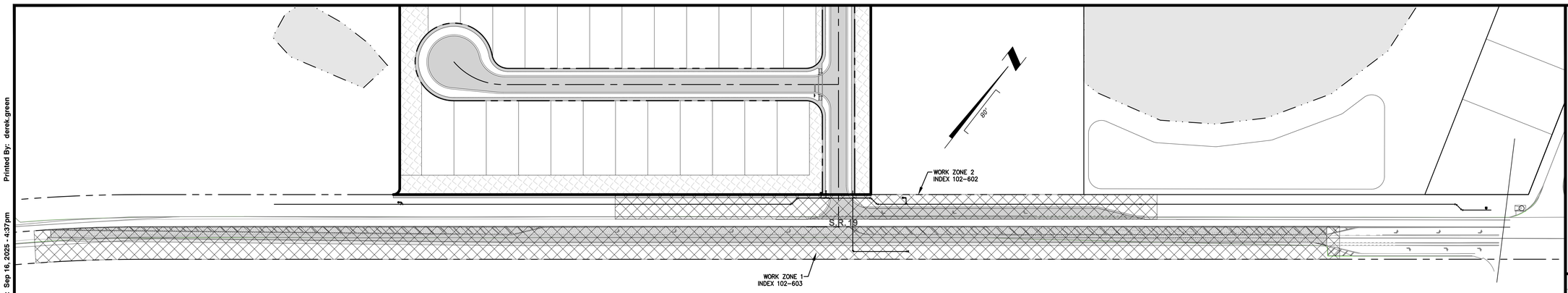
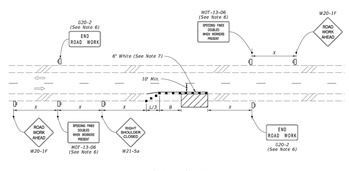


NOTE:

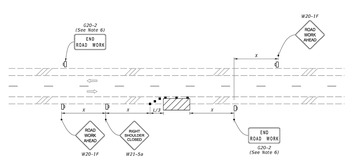
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 For "L", "X", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic



TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

LAST REVISION	X	DESCRIPTION:
11/01/21		

FDOT | FY 2023-24 STANDARD PLANS | TWO-LANE AND MULTILANE, WORK ON SHOULDER | INDEX 102-602 | SHEET 1 of 2

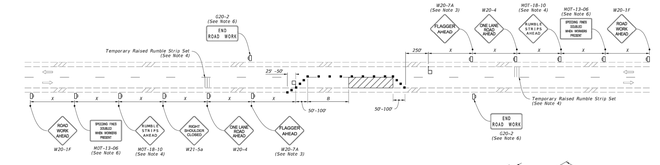
NOTES:

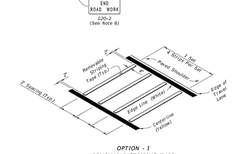
1. This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
2. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Spacing
   See Index 102-600 For "L", "B", "X" and channelizing device spacing values.
3. Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
4. Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.
5. Additional one-way control may be provided by the following means:
   a. Flag-carrying vehicle
   b. Official vehicle
   c. Pilot vehicle
   d. Traffic signals

   When Flaggers are the sole means of one-way control, the Flaggers must be in sight of each other or in direct communication at all times.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.
7. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
8. Railroad Crossings:
   a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
   b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic





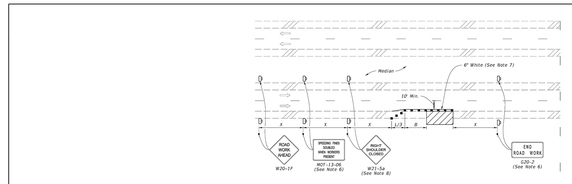
OPTION - 1
REMOVABLE STRIPING TYPE

OPTION - 2
PORTABLE TYPE

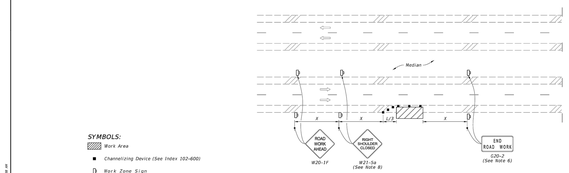
RUMBLE STRIP SETS

LAST REVISION	X	DESCRIPTION:
11/01/21		

FDOT | FY 2023-24 STANDARD PLANS | TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY | INDEX 102-603 | SHEET 1 of 2



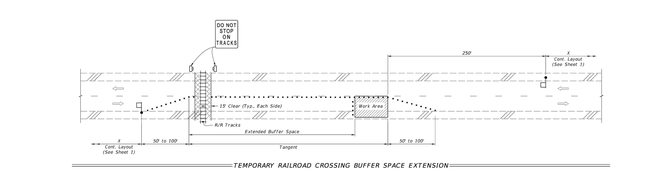
MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



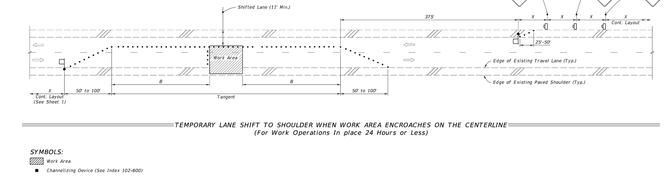
MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

LAST REVISION	X	DESCRIPTION:
11/01/20		

FDOT | FY 2023-24 STANDARD PLANS | TWO-LANE AND MULTILANE, WORK ON SHOULDER | INDEX 102-602 | SHEET 2 of 2



TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION



TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE
(For Work Operations In place 24 Hours or Less)

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic

SPECIAL CONDITIONS

LAST REVISION	X	DESCRIPTION:
11/01/21		

FDOT | FY 2023-24 STANDARD PLANS | TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY | INDEX 102-603 | SHEET 2 of 2

Connelly & Wicker Inc.
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Florida Registry 3650 L.A. Number: LC26000311

No.	Date	Revision	By
A1			
A2			
A3			
A4			
A5			
A6			

SR-19 TRAFFIC CONTROL PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
P.E. NUMBER: 69260
Reg. Engineer

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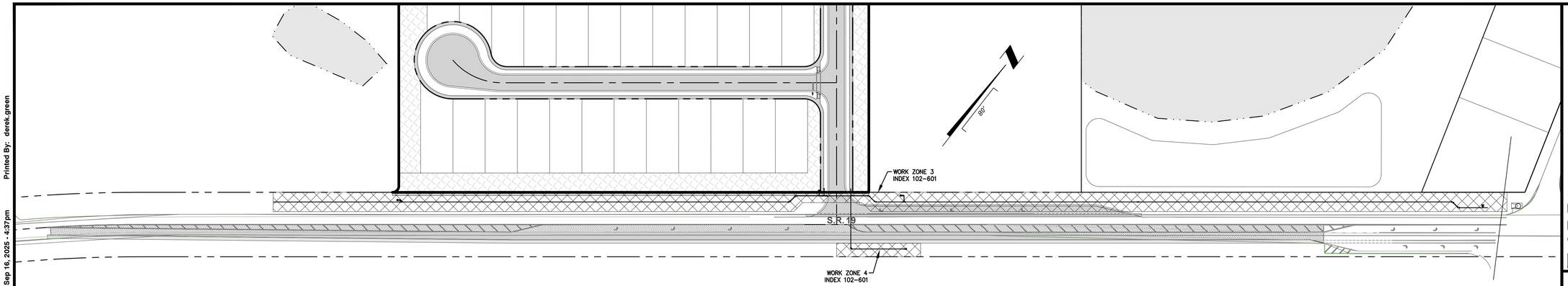
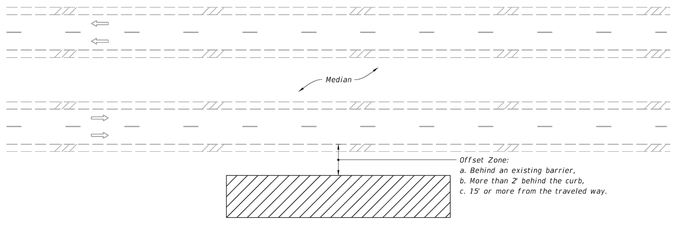
Project No:	24-01-0079
Designed:	JEW
Drawn:	DCG
Checked:	JEW
O.C.:	RCW
Date:	APR 2025
Scale:	1" = 80'
Sheet	23A





MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

NOTES:

1. *This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.*
2. *Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.*
3. *Use Index 102-660 when Work Area encroaches a Sidewalk.*

SYMBOLS:

- *Work Area*
- *Lane Identification and Direction of Traffic*

LAST REVISION	REVISION	DESCRIPTION:	FDOT		INDEX	SHEET
11/01/20			FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	102-601	1 of 1

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Florida Registry 3650 L.A. Number: LC26000311

No.	Date	Revision	By
A			
A			
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SR-19 TRAFFIC CONTROL PLAN

HILLSIDE GROVE
PHASES 2-4
HOWEY IN THE HILLS
PREPARED FOR
MERITAGE HOMES

JUSTIN ELLERY WILLIAMS
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Reg. Engineer

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